



Pace Analytical Services

Laboratory Code: 11148

SDG Number: L2538382

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Table of Contents

New York ASP Category B Data Deliverable Package.....	1
Table of Contents	2
Sample ID Cross Reference	10
SDG Narrative	11
Data Qualifier Definitions	13
Instrument Information	16
Sample Log-in Sheet	19
Lims COC (LN01)	21
External Chain of Custody	25
Organics Analysis	28
GCMS 8260 Analysis	29
Volatiles QC Summary	30
Form 2 - Organics	31
Form 3 - Organics	32
Form 4 - Organics	37
Form 5 - Organics	38
Form 8 - Organics	40
MDL Study - Volatile Organics 8260	41
Volatiles Sample Data	43
Form 1 - Organics	44
MW-8S (L2538382-01) Analyzed: 06/25/25 13:42	71
MW-8D (L2538382-02) Analyzed: 06/25/25 14:05	78
MW-5D (L2538382-03) Analyzed: 06/25/25 14:28	88
PZ-5 (L2538382-04) Analyzed: 06/25/25 14:50	103
TRIP BLANK (L2538382-08) Analyzed: 06/25/25 15:13	109
MW-12D (L2538382-06) Analyzed: 06/25/25 15:36	115
DUP_06182025 (L2538382-07) Analyzed: 06/25/25 15:58	126
MW-12S (L2538382-05) Analyzed: 06/25/25 16:21	132
Volatile Standards Data	137
Initial Calibration	138
Form 6 - Organics	139
ICAL for VOA108 on 06/11/25 ICAL22356	142
Initial Calibration Summary - Cal Date: 06/11/25 00:00	142
BFB TUNE Injected on: 06/11/25 02:40	146
STD0.19PPB Injected on: 06/11/25 04:08	147
STD0.5PPB Injected on: 06/11/25 04:52	153
STD2PPB Injected on: 06/11/25 05:36	162
STD10PPB Injected on: 06/11/25 06:21	167
STD30PPB Injected on: 06/11/25 06:43	173
STD80PPB Injected on: 06/11/25 07:05	179
STD120PPB Injected on: 06/11/25 07:27	185
STD200PPB Injected on: 06/11/25 07:49	191
ICV Summary Form Injected on: 06/11/25 09:38	197
ICV Quant Report Injected on: 06/11/25 09:38	200
Correlation Data Summary	207
Continuing Calibration	208
Form 7 - Organics	209
CC Summary - VOA108 Run: 06/25/25 07:06	212
CC Quant - WG2084241-2 VOA108 Run: 06/25/25 07:06	215
bfb tune - Inst. VOA108 06/25/25 06:51	222

Table of Contents

Volatiles Raw QC Data	223
Laboratory Method BI (WG2084241-5) Analyzed: 06/25/25 08:36	224
Laboratory Control S (WG2084241-3) Analyzed: 06/25/25 07:06	231
LCS Duplicate (WG2084241-4) Analyzed: 06/25/25 07:29	285
Matrix Spike (WG2084241-6) Analyzed: 06/25/25 16:44	339
Matrix Spike Duplica (WG2084241-7) Analyzed: 06/25/25 17:06	393
Volatiles Calculations	447
QC Batch WG2084241	448
ICAL Sequence for VOA108 on 11-JUN-2025 00:00 ICAL22356	449
Instrument VOA108 Run Date 06/25/25 Run ID R1981908	450
Semivolatiles Data - Method 8270	451
Semivolatiles QC Summary	452
Form 3 - Organics	453
Form 2 - Organics	457
Form 4 - Organics	458
Form 5 - Organics	459
Form 8 - Organics	462
MDL Study - ABN Extractables	464
Semivolatiles Sample Data	466
Form 1 - Organics	467
MW-8S (L2538382-01) Analyzed: 06/21/25 11:27	483
MW-8D (L2538382-02) Analyzed: 06/21/25 11:49	488
MW-5D (L2538382-03) Analyzed: 06/21/25 12:11	494
PZ-5 (L2538382-04) Analyzed: 06/21/25 12:34	499
MW-12S (L2538382-05) Analyzed: 06/21/25 12:56	504
MW-12D (L2538382-06) Analyzed: 06/21/25 13:18	509
DUP_06182025 (L2538382-07) Analyzed: 06/21/25 14:26	514
Semivolatiles Standards Data	519
Initial Calibration	520
Form 6 - Organics	521
ICAL for DAKOTA on 04/17/25 ICAL22203	525
Initial Calibration Summary - Cal Date: 04/17/25 00:00	525
Tune Injected on: 04/16/25 17:04	530
Deg Injected on: 04/16/25 17:04	531
Tailing Factor Injected on: 04/16/25 17:04	532
ABNL9 Injected on: 04/16/25 17:27	534
ABNL8 Injected on: 04/16/25 17:49	540
ABNL7 Injected on: 04/16/25 18:12	546
ABNL6 Injected on: 04/16/25 18:35	552
ABNL5 Injected on: 04/16/25 18:57	557
ABNL4 Injected on: 04/16/25 19:19	562
ABNL3 Injected on: 04/16/25 19:42	569
ABNL2 Injected on: 04/16/25 20:04	577
ABNL1 Injected on: 04/16/25 20:27	587
AP9L9 Injected on: 04/16/25 20:49	608
AP9L8 Injected on: 04/16/25 21:12	611
AP9L7 Injected on: 04/16/25 21:35	614
AP9L6 Injected on: 04/16/25 21:57	617
AP9L5 Injected on: 04/16/25 22:20	620
AP9L4 Injected on: 04/16/25 22:42	623

Table of Contents

AP9L3 Injected on: 04/16/25 23:05	626
AP9L2 Injected on: 04/16/25 23:28	629
AP9L1 Injected on: 04/16/25 23:50	632
ABN ICV Summary Form Injected on: 04/17/25 00:13	639
ABN ICV Quant Report Injected on: 04/17/25 00:13	642
AP9 ICV Summary Form Injected on: 04/17/25 00:36	725
AP9 ICV Quant Report Injected on: 04/17/25 00:36	726
Tune Injected on: 04/17/25 00:58	743
Deg Injected on: 04/17/25 00:58	744
Tailing Factor Injected on: 04/17/25 00:58	745
ADPL9 Injected on: 04/17/25 01:20	747
ADPL8 Injected on: 04/17/25 01:43	750
ADPL7 Injected on: 04/17/25 02:05	753
ADPL6 Injected on: 04/17/25 02:28	756
ADPL5 Injected on: 04/17/25 02:50	759
ADPL4 Injected on: 04/17/25 03:13	762
ADPL3 Injected on: 04/17/25 03:35	765
ADPL2 Injected on: 04/17/25 03:58	768
ADPL1 Injected on: 04/17/25 04:21	773
ADP ICV Summary Form Injected on: 04/17/25 04:43	779
ADP ICV Quant Report Injected on: 04/17/25 04:43	780
Relative Error	791
Continuing Calibration	792
Form 7 - Organics	793
CC Summary - DAKOTA Run: 06/21/25 06:27	798
CC Quant - WG2081719-3 DAKOTA Run: 06/21/25 06:27	801
CC Summary - DAKOTA Run: 06/21/25 06:49	884
CC Quant - WG2081719-4 DAKOTA Run: 06/21/25 06:49	885
CC Summary - DAKOTA Run: 06/21/25 07:11	902
CC Quant - WG2081719-5 DAKOTA Run: 06/21/25 07:11	903
DEG Quant for DAKOTA injected on 06/21/25 06:05	912
dftpp tune - Inst. DAKOTA 06/21/25 06:05	913
Tailing factor report for DAKOTA injected on 06/21/25 06:05	914
Semivolatiles Raw QC Summary	916
Laboratory Method BI (WG2081606-1) Analyzed: 06/21/25 09:58	917
Laboratory Control S (WG2081606-2) Analyzed: 06/21/25 09:13	922
LCS Duplicate (WG2081606-3) Analyzed: 06/21/25 09:35	970
Matrix Spike (WG2081606-4) Analyzed: 06/21/25 13:41	1018
Matrix Spike Duplica (WG2081606-5) Analyzed: 06/21/25 14:03	1065
Semivolatiles Calculations	1113
QC Batch WG2081606	1114
ICAL Sequence for DAKOTA on 17-APR-2025 00:00 ICAL22203	1115
Instrument DAKOTA Run Date 06/21/25 Run ID R1979592	1116
Organic ELN-Workgroup:WG2081606	1117
Semivolatiles Data - Method 8270D-SIM	1119
Semivolatiles QC Summary	1120
Form 2 - Organics	1121
Form 3 - Organics	1122
Form 4 - Organics	1125
Form 5 - Organics	1126

Table of Contents

Form 8 - Organics	1128
MDL Study - 8270 Low Level PAH	1130
Semivolatiles Sample Data	1131
Form 1 - Organics	1132
MW-8S (L2538382-01) Analyzed: 06/27/25 17:35	1148
MW-8D (L2538382-02) Analyzed: 06/27/25 17:52	1152
MW-5D (L2538382-03) Analyzed: 06/27/25 18:09	1156
PZ-5 (L2538382-04) Analyzed: 06/27/25 18:26	1160
MW-12S (L2538382-05) Analyzed: 06/27/25 18:42	1164
MW-12D (L2538382-06) Analyzed: 06/27/25 18:59	1171
DUP_06182025 (L2538382-07) Analyzed: 06/27/25 19:16	1175
Semivolatiles Standards Data	1180
Initial Calibration	1181
Form 6 - Organics	1182
ICAL for SV119 on 06/27/25 ICAL22426	1184
Initial Calibration Summary - Cal Date: 06/27/25 00:00	1184
Injected on: 06/25/25 19:48	1188
Deg Injected on: 06/25/25 19:48	1189
Tailing Factor Injected on: 06/25/25 19:48	1190
L10 Injected on: 06/25/25 20:07	1192
L9 Injected on: 06/25/25 20:23	1199
L8 Injected on: 06/25/25 20:40	1204
L7 Injected on: 06/25/25 20:57	1209
L6 Injected on: 06/25/25 21:14	1214
L5 Injected on: 06/25/25 21:31	1223
L4 Injected on: 06/25/25 21:48	1232
L3 Injected on: 06/25/25 22:04	1240
L2 Injected on: 06/25/25 22:24	1248
L1 Injected on: 06/25/25 22:41	1257
ICV Summary Form Injected on: 06/25/25 22:58	1274
ICV Quant Report Injected on: 06/25/25 22:58	1276
Relative Error	1313
Continuing Calibration	1314
Form 7 - Organics	1315
CC Summary - SV119 Run: 06/27/25 16:09	1317
CC Quant - WG2084498-3 SV119 Run: 06/27/25 16:09	1319
DEG Quant for SV119 injected on 06/27/25 15:44	1355
dftpp tune - Inst. SV119 06/27/25 15:44	1356
Tailing factor report for SV119 injected on 06/27/25 15:44	1357
Semivolatiles Raw QC Summary	1359
Laboratory Method BI (WG2081607-1) Analyzed: 06/27/25 16:45	1360
Laboratory Control S (WG2081607-2) Analyzed: 06/27/25 17:02	1364
LCS Duplicate (WG2081607-3) Analyzed: 06/27/25 17:19	1391
Matrix Spike (WG2081607-4) Analyzed: 06/27/25 19:33	1418
Matrix Spike Duplica (WG2081607-5) Analyzed: 06/27/25 19:49	1446
Semivolatiles Calculations	1474
QC Batch WG2081607	1475
ICAL Sequence for SV119 on 27-JUN-2025 00:00 ICAL22426	1476
Instrument SV119 Run Date 06/27/25 Run ID R1982221	1477
Organic ELN-Workgroup:WG2081607	1478

Table of Contents

Metals Analysis	1480
Inorganic Data (ICP Analysis)	1481
Form 1 - Inorganics	1482
Form 2A - Inorganics	1500
Form 3 - Inorganics	1515
Form 4A - Inorganics	1527
Form 5A - Inorganics	1531
Form 6 - Inorganics	1534
Form 7 - Inorganics	1535
Form 8 - Inorganics	1538
Form 10 - Inorganics	1540
Form 11 - Inorganics	1559
Form 12 - Inorganics	1560
Form 13 - Inorganics	1564
MDL Study - Metals by ICP	1569
Run Date 06/26/25 Run ID R1981541	1571
Run Date 06/27/25 Run ID R1982044	1673
Run Date 06/27/25 Run ID R1982073	1732
Run Date 06/27/25 Run ID R1982031	1796
ICP True Value Summary Form	1934
ICP Calculations	1949
Instrument TRACE6 Run Date 06/26/25 Run ID R1981541	1950
Instrument TRACE6 Run Date 06/27/25 Run ID R1982044	1952
Instrument TRACE8 Run Date 06/27/25 Run ID R1982073	1954
Instrument TRACE9 Run Date 06/27/25 Run ID R1982031	1956
Metals ELN-Workgroup:WG2081457	1958
Metals ELN-Workgroup:WG2084038	1961
Inorganic Data (Mercury Analysis)	1964
Form 1 - Inorganics	1965
Form 2A - Inorganics	1981
Form 3 - Inorganics	1986
Form 5A - Inorganics	1991
Form 7 - Inorganics	1993
Form 12 - Inorganics	1995
Form 13 - Inorganics	1997
MDL Study - Mercury by 245.1	2000
MDL Study - Mercury by 7470A	2001
MDL Study - Mercury by 7471B	2002
Run Date 06/23/25 Run ID R1980132	2003
Run Date 06/27/25 Run ID R1981964	2008
Hg True Value Summary Form	2012
HG Calculations	2026
Instrument NIC2 Run Date 06/23/25 Run ID R1980132	2028
Instrument NIC3 Run Date 06/27/25 Run ID R1981964	2031
Metals ELN-Workgroup:WG2081458	2033
Metals ELN-Workgroup:WG2084039	2035
Wet Chemistry Analysis	2038
Total Nitrogen Calculation	2039
Results	2040
Form 1 - Inorganics	2041

Table of Contents

Sample Raw Data	2048
Wet Chemistry Raw Data	2049
Total Nitrogen Calculations	2050
TKN Analysis	2051
Results	2052
Form 1 - Inorganics	2053
Sample Raw Data	2064
Wet Chemistry Raw Data	2065
Quality Control	2090
Form 5A - Inorganics	2091
Form 6 - Inorganics	2093
Form 7 - Inorganics	2095
MDL Study - Total Kjeldahl Nitrogen	2097
TKN Calculations	2099
Sequence Logs	2100
Instrument LACHAT Run Date 06/26/25 Run ID R1981739	2101
Instrument LACHAT Run Date 06/27/25 Run ID R1982687	2103
Sample Preparation	2107
Prep Log	2108
Nitrate-Nitrite Analysis	2110
Results	2111
Form 1 - Inorganics	2112
Sample Raw Data	2139
Wet Chemistry Raw Data	2140
250620_rawdataA	2140
250620_rawdataB	2186
Quality Control	2197
Form 5A - Inorganics	2198
Form 6 - Inorganics	2201
Form 7 - Inorganics	2204
MDL Study - Nitrate and Nitrite	2207
Nitrate Nitrite Calculations	2209
Sequence Logs	2210
Instrument FIA1 Run Date 06/20/25 Run ID R1979219	2211
250620_seqA	2211
250620_seqB	2218
Total Dissolved Solids Analysis	2220
Results	2221
Form 1 - Inorganics	2222
Sample Raw Data	2232
Wet Chemistry Raw Data	2233
Quality Control	2235
Form 6 - Inorganics	2236
Form 7 - Inorganics	2238
MDL Study - Total Dissolved Solids	2239
TDS Calculations	2240
Sulfate Analysis	2241
Results	2242
Form 1 - Inorganics	2243
Sample Raw Data	2254

Table of Contents

Wet Chemistry Raw Data	2255
Quality Control	2257
Form 5A - Inorganics	2258
Form 6 - Inorganics	2260
Form 7 - Inorganics	2262
MDL Study - Sulfate	2264
Sulfate Calculations	2266
Alkalinity Analysis	2267
Results	2268
Form 1 - Inorganics	2269
Sample Raw Data	2278
Wet Chemistry Raw Data	2279
CAL	2279
LCS	2281
ALK	2282
Quality Control	2293
Form 6 - Inorganics	2294
MDL Study - Alkalinity	2295
Alkalinity Calculations	2296
Sequence Logs	2297
Instrument TITR5 Run Date 06/26/25 Run ID R1981451	2298
Chloride Analysis	2300
Results	2301
Form 1 - Inorganics	2302
Sample Raw Data	2311
Wet Chemistry Raw Data	2312
250626-1	2312
250626-2	2323
250626-3	2336
Quality Control	2340
Form 5A - Inorganics	2341
Form 6 - Inorganics	2342
Form 7 - Inorganics	2343
MDL Study - Chloride	2344
Chloride Calculations	2346
Sequence Logs	2347
Instrument LACHAT Run Date 06/26/25 Run ID R1981465	2348
Fluoride Analysis	2352
Results	2353
Form 1 - Inorganics	2354
Sample Raw Data	2365
Wet Chemistry Raw Data	2366
Quality Control	2368
Form 5A - Inorganics	2369
Form 6 - Inorganics	2371
Form 7 - Inorganics	2373
MDL Study - Fluoride	2375
Fluoride Calculations	2377
Sample Preparation	2378
Prep Log	2379

Table of Contents

Phosphates Analysis	2383
Results	2384
Form 1 - Inorganics	2385
Sample Raw Data	2395
Wet Chemistry Raw Data	2396
Quality Control	2398
Form 5A - Inorganics	2399
Form 6 - Inorganics	2401
Form 7 - Inorganics	2403
MDL Study - Total Phosphorus	2404
MDL Study - Orthophosphate	2406
Total Phosphorus Calculation	2408
Wet Chemistry By IC Methods	2409
Results	2410
Form 1 - Inorganics	2411
Sample Raw Data	2420
Wet Chemistry Raw Data	2421
Quality Control	2478
Form 5A - Inorganics	2479
Form 6 - Inorganics	2481
Form 7 - Inorganics	2482
MDL Study - Ion Chromatography	2483
IC Calculations	2484
Alpha Analytical Report	2485
Subcontracted Data Documents	2485
Subcontracted Data	2486
Subcontracted Data Deliverable Package	2522

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2538382
Report Date: 07/02/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2538382-01	MW-8S	WATER	416 MILLER PLACE-YAPHANK RD.	06/18/25 09:00	06/18/25
L2538382-02	MW-8D	WATER	416 MILLER PLACE-YAPHANK RD.	06/18/25 09:05	06/18/25
L2538382-03	MW-5D	WATER	416 MILLER PLACE-YAPHANK RD.	06/18/25 10:30	06/18/25
L2538382-04	PZ-5	WATER	416 MILLER PLACE-YAPHANK RD.	06/18/25 10:45	06/18/25
L2538382-05	MW-12S	WATER	416 MILLER PLACE-YAPHANK RD.	06/18/25 13:20	06/18/25
L2538382-06	MW-12D	WATER	416 MILLER PLACE-YAPHANK RD.	06/18/25 13:22	06/18/25
L2538382-07	DUP_06182025	WATER	416 MILLER PLACE-YAPHANK RD.	06/18/25 12:00	06/18/25
L2538382-08	TRIP BLANK	TRIP BLANK (AQUEOUS)	416 MILLER PLACE-YAPHANK RD.	06/18/25 00:00	06/18/25

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2538382
Report Date: 07/02/25

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2538382
Report Date: 07/02/25

Case Narrative (continued)

Report Submission

July 02, 2025: This final report includes the results of all requested analyses.

June 30, 2025: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

The analyses of Sulfide, Iodide and Ammonium were subcontracted. Copies of the laboratory reports are included as an addendum. Please note: This data is only available in PDF format and is not available on Data Merger.

Dissolved Metals

L2538382-04: Dissolved results are greater than Total results. The sample containers were verified as being labeled correctly by the laboratory.

Anions by Ion Chromatography

The WG2083987-5/-6 MS/MSD recoveries performed on L2538382-06 are outside the acceptance criteria for bromide (80%/80%); however, the associated LCS recovery is within criteria. No further action was taken.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: *Siffani Morrissey*

Report Date: 07/03/25

Title: Technical Director/Representative



DATA PACKAGE GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers



Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenzo(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where

Report Format: DU Report with 'J' Qualifiers



Project Name: CORAM MATERIALS
Project Number: 2232.0006Y005

Lab Number: L2538382
Report Date: 07/02/25

Data Qualifiers

the identification is based on a mass spectral library search.

- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.
- ND or U** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

TYPICAL INSTRUMENT PARAMETERS

Volatile Organics Instruments

Volatile Organics:

Instrument: Agilent 7890 GC/5975C MSD	Columns (length x ID x df):
Trap: Supelco K Trap (VOACARB 3000)	RTX-VMS 20m x 0.18mm x 1um
Concentrator: EST Encon (or equivalent)	RTX-VMS 30m x 0.25mm x 1.4um
Autosampler: EST Centurion (or equivalent)	RTX-502.2 40m x 0.18mm x 1um
Purge time: 11 min	

Volatile Organics: VPH

Instrument: Agilent 6890 (or equivalent)	Column Type: Restek RTX 502.2
Trap: Supelco K Trap (VOACARB 3000)	Column Length: 105 Meters
Concentrator: EST Encon (or equivalent)	df: 3.00 um
Autosampler: EST Centurion (or equivalent)	ID: 0.53mm

Volatile Organics: PIANO

Instrument: Agilent 7890 GC/5975C MSD	Column Type: DB-VRX
Trap: Supelco K Trap (VOACARB 3000)	Column Length: 60 Meters
Concentrator: Tekmar Velocity / EST Encon	df: 1.40 um
Autosampler: Varian Archon / EST Centurion	ID: 0.25 mm
Purge time: 11 min	Desorb: 1 min

Volatile Organics: Dissolved Gas

Instrument: Agilent 7890 (or equivalent) with FID/TCD	Column Type: Haysep S Column
	Column Length: 2 Meters packed (100/200 mesh)
Autosampler: LEAP Headspace	Purge time: 0.6 min

Volatile Organics in Air Instruments

Volatile Organics in Air:

Instruments: Agilent 6890 GC / 5975 MSD Shimadzu QP2010-SE / QP2020

Concentrator: Entech 7100A or 7200	Column Type: Restek RTX-1
Autosampler: Entech 7016CA or 7016D	Column Length: 60 Meters
	df: 1.00 um
	ID: 0.25 mm or 0.32 mm

Trap 1: Glass Bead: manufacturer-Entech: 20 cm packing material

Trap 2: Tenax: manufacturer-Entech: 20 cm packing material

Semivolatile Organics Instruments - Westborough

Semivolatile Organics (Acid/Base/Neutral Extractables):

Instrument: Agilent 5973N MSD	Injection volume: 1 ul;2 uL LVI
Column Type: Restek RXI-5SILMS	df: 0.32 um
Column Length: 30 Meters	ID: 0.25 mm

Polynuclear Aromatic Hydrocarbons by 8270 SIM:

Instrument: Agilent 5973 MSD	Injection volume: 1 ul;2 uL LVI
Column Type: Restek RXI-5SILMS	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Pesticides/PCB/Herbicides:

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column A: Restek RTX-CL/STX-CL	df: 0.32
Column B: Restek RTX/STX-CLPPesticide II	df: 0.25
Column Length: 30 Meters	ID: 0.32 mm

Petroleum/EPH:

Instrument: Agilent 6890 w/FID / HP 5890 w/ FID	Injection Volume: 1uL
Column: Restek RTX 5	df: 0.25
Column Length: 30 Meters	
ID: 0.32 mm	

Semivolatile Organic Instruments - Mansfield

Semivolatile Organics (ALK-PAH Extractables):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 1 ul
Column Type: ZB-5	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Semivolatile Organics (8270):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 2 ul
Column Type: ZB-Semivolatiles	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Semivolatile Organics (8270 SIM):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 3 ul
Column Type: ZB-5	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Semivolatile Organics (1,4-Dioxane):

Instrument: Agilent 5973N / 5975 / 5977 MSD	Injection volume: 3 ul
Column Type: RTX-5	df: 0.25um, 0.18 um
Column Length: 30 Meters	ID: 0.25um, 0.18 mm

Semivolatile Organics (209 Congener):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 3 ul
Column Type: RTX-5, RTX-PCB	df: 0.25um, 0.18 um
Column Length: 60 Meters	ID: 0.25um, 0.18 mm

Semivolatile Organics (8081):

Instrument: Agilent 6890 / 7890	Injection volume: 1 ul
Column Type: RTX-5 / RTX-CLP II	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Semivolatile Organics (8082):

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column A: Restek RTX-CL/STX-CL	df: 0.32
Column B: Restek RTX/STX-CLPPesticide II	df: 0.25
Column Length: 30 Meters	ID: 0.32 mm

Semivolatile Organics (SHC Extractables):

Instrument: Agilent 6890	Injection volume: 1 ul
Column Type: RTX-5	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm



Sample Delivery Group Summary

Pace Job Number : L2538382

Received : 18-JUN-2025

Reviewer : Geoffry Grace

Account Name : Roux Env. Eng. & Geology, DPC

Project Number : 2232.0006Y005

Project Name : CORAM MATERIALS

Delivery Information

Samples Delivered By : Pace Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
A	Absent/	Ice	3.7	
B	Absent/	Ice	5.2	
C	Absent/	Ice	5.0	
D	Absent/	Ice	4.8	

Condition Information

1) All samples on COC received? **YES**

2) Extra samples received? **NO**

3) Are there any sample container discrepancies? **NO**

4) Are there any discrepancies between COC & sample labels? **NO**

5) Are samples in appropriate containers for requested analysis? **YES**

Container	pH	Preservative Added	Final pH
L2538382-01H	7	NaOH	>9
L2538382-01I	7	NaOH	>9
L2538382-03I	7	NaOH	>9
L2538382-05H	7	NaOH	>9
L2538382-06H	8	NaOH	>9
L2538382-06H2	7	NaOH	>9
L2538382-06I	7	NaOH	>9
L2538382-06I2	7	NaOH	>9

Following containers were received with headspace: -05B

7) Are samples within holding time for requested analysis? **YES**



Sample Delivery Group Summary

Pace Job Number : L2538382

Received : 18-JUN-2025

Reviewer : Geoffry Grace

Account Name : Roux Env. Eng. & Geology, DPC

Project Number : 2232.0006Y005

Project Name : CORAM MATERIALS

8) All sampling equipment returned?

NA

Volatile Organics/VPH

1) Reagent Water Vials Frozen by Client?

NO

PACE ANALYTICAL SERVICES
LOGIN CHAIN OF CUSTODY REPORT
Jul 31 2025, 02:27 pm

Login Number: L2538382

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005

Received: 18JUN25

Due Date: 02JUL25

Sample # Client ID Mat PR Collected

L2538382-01 MW-8S

1 S0 18JUN25 09:00

NYTCL-8260: Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) Matrix description field has to be filled in appropriately for OC, ex: Trip Blank, Field Blank, etc Only one result per compound 8260/8270 RL built 882158632506 43.04 NYTCL-8270 SIM Report list built SUB-Sulfide is direct sub to Pace Melville NYTCL-8270-RVT: Non-Routine: ;1,2,4,5-Tetrachlorobenzene;Atrazine;Benzaldehyde;Caprolactam 882157745292 47.96 ASP-B Package Due Date: 07/02/25

ALK-C03-2320, ALK-HC03-2320, ARCHIVE, ASP-B, BR-300, CL-4500, F-4500, NO2-4500NO3, NO3-4500, NYTCL-8260, NYTCL-8270/SIM-RVT, NYTCL-8270-RVT, NYTCL-8270-SIM-RVT, SHIPPING, SO4-4500, SUB-AMMONIUM, SUB- IODIDE, SUB-LEVEL5, SUB-SULFIDE, TAL-2007S, AG-RI, AL-RI, AS-RI, BA-RI, BE-RI, CA-RI, CD-RI, CO-RI, CR-RI, CU-RI, FE-RI, HG-R, K-RI, MG-RI, MN-RI, NA-RI, NI-RI, PB-RI, PREPR, SB-RI, SE-RI, TL-RI, V-RI, ZN-RI, TAL-600, AG-UI, AL-UI, AS-UI, BA-UI, BE-UI, CA-UI, CD-UI, CO-UI, CR-UI, CU-UI, FE-UI, HG-U, K-UI, MG-UI, MN-UI, NA-UI, NI-UI, PB-UI, PREPU, SB-UI, SE-UI, TL-UI, V-UI, ZN-UI, TDS-2540, TOTALNITROGEN, NO3/NO2-4500, TKN-4500, TNITROGEN, TP04-4500

L2538382-02 MW-8D

1 S0 18JUN25 09:05

Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) Matrix description field has to be filled in appropriately for OC, ex: Trip Blank, Field Blank, etc Only one result per compound 8260/8270 RL built NYTCL-8270 SIM Report list built SUB-Sulfide is direct sub to Pace Melville NYTCL-8260: Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT: Non-Routine: ;1,2,4,5-Tetrachlorobenzene;Atrazine;Benzaldehyde;Caprolactam Package Due Date: 07/02/25

ALK-C03-2320, ALK-HC03-2320, ARCHIVE, BR-300, CL-4500, F-4500, NO2-4500NO3, NO3-4500, NYTCL-8260, NYTCL-8270/SIM-RVT, NYTCL-8270-RVT, NYTCL-8270-SIM-RVT, SO4-4500, SUB-AMMONIUM, SUB- IODIDE, SUB-SULFIDE, TAL-2007S, AG-RI, AL-RI, AS-RI, BA-RI, BE-RI, CA-RI, CD-RI, CO-RI, CR-RI, CU-RI, FE-RI, HG-R, K-RI, MG-RI, MN-RI, NA-RI, NI-RI, PB-RI, PREPR, SB-RI, SE-RI, TL-RI, V-RI, ZN-RI, TAL-600, AG-UI, AL-UI, AS-UI, BA-UI, BE-UI, CA-UI, CD-UI, CO-UI, CR-UI, CU-UI, FE-UI, HG-U, K-UI, MG-UI, MN-UI, NA-UI, NI-UI, PB-UI, PREPU, SB-UI, SE-UI, TL-UI, V-UI, ZN-UI, TDS-2540, TOTALNITROGEN, NO3/NO2-4500, TKN-4500, TNITROGEN, TP04-4500

PACE ANALYTICAL SERVICES
LOGIN CHAIN OF CUSTODY REPORT
Jul 31 2025, 02:27 pm

Login Number: L2538382

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005

Received: 18JUN25 Due Date: 02JUL25

Sample # Client ID Mat PR Collected

L2538382-03 MW-5D

1 S0 18JUN25 10:30

Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound 8260/8270 RL built NYTCL-8270 SIM Report list built SUB-Sulfide is direct sub to Pace Melville NYTCL-8260: Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT: Non-Routine: ;1,2,4,5-Tetrachlorobenzene;Atrazine;Benzaldehyde;Caprolactam Package Due Date: 07/02/25

ALK-C03-2320, ALK-HC03-2320, ARCHIVE, BR-300, CL-4500, F-4500, NO2-4500 NO3, NO3-4500, NYTCL-8260, NYTCL-8270/SIM-RVT, NYTCL-8270-RVT, NYTCL-8270-SIM-RVT, S04-4500, SUB-AMMONIUM, SUB- IODIDE, SUB-SULFIDE, TAL-2007S, AG-RI, AL-RI, AS-RI, BA-RI, BE-RI, CA-RI, CD-RI, CO-RI, CR-RI, CU-RI, FE-RI, HG-R, K-RI, MG-RI, MN-RI, NA-RI, NI-RI, PB-RI, PREPR, SB-RI, SE-RI, TL-RI, V-RI, ZN-RI, TAL-600, AG-UI, AL-UI, AS-UI, BA-UI, BE-UI, CA-UI, CD-UI, CO-UI, CR-UI, CU-UI, FE-UI, HG-U, K-UI, MG-UI, MN-UI, NA-UI, NI-UI, PB-UI, PREPU, SB-UI, SE-UI, TL-UI, V-UI, ZN-UI, TDS-2540, TOTALNITROGEN, NO3/NO2-4500, TKN-4500, TNITROGEN, TP04-4500

L2538382-04 PZ-5

1 S0 18JUN25 10:45

Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound 8260/8270 RL built NYTCL-8270 SIM Report list built SUB-Sulfide is direct sub to Pace Melville NYTCL-8260: Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT: Non-Routine: ;1,2,4,5-Tetrachlorobenzene;Atrazine;Benzaldehyde;Caprolactam Package Due Date: 07/02/25

ALK-C03-2320, ALK-HC03-2320, ARCHIVE, BR-300, CL-4500, F-4500, NO2-4500 NO3, NO3-4500, NYTCL-8260, NYTCL-8270/SIM-RVT, NYTCL-8270-RVT, NYTCL-8270-SIM-RVT, S04-4500, SUB-AMMONIUM, SUB- IODIDE, SUB-SULFIDE, TAL-2007S, AG-RI, AL-RI, AS-RI, BA-RI, BE-RI, CA-RI, CD-RI, CO-RI, CR-RI, CU-RI, FE-RI, HG-R, K-RI, MG-RI, MN-RI, NA-RI, NI-RI, PB-RI, PREPR, SB-RI, SE-RI, TL-RI, V-RI, ZN-RI, TAL-600, AG-UI, AL-UI, AS-UI, BA-UI, BE-UI, CA-UI, CD-UI, CO-UI, CR-UI, CU-UI, FE-UI, HG-U, K-UI, MG-UI, MN-UI, NA-UI, NI-UI, PB-UI, PREPU, SB-UI, SE-UI, TL-UI, V-UI, ZN-UI, TDS-2540, TOTALNITROGEN, NO3/NO2-4500, TKN-4500, TNITROGEN, TP04-4500

PACE ANALYTICAL SERVICES
LOGIN CHAIN OF CUSTODY REPORT
Jul 31 2025, 02:27 pm

Login Number: L2538382

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005

Received: 18JUN25 Due Date: 02JUL25

Sample # Client ID Mat PR Collected

L2538382-05 MW-12S

1 S0 18JUN25 13:20

Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound 8260/8270 RL built NYTCL-8270 SIM Report list built SUB-Sulfide is direct sub to Pace Melville NYTCL-8260; Non-Routine: Freon-113; Cyclohexane; Methyl Acetate; Methyl cyclohexane NYTCL-8270-RVT: Non-Routine: ;1,2,4,5-Tetrachlorobenzene; Atrazine; Benzaldehyde; Caprolactam Package Due Date: 07/02/25

ALK-C03-2320, ALK-HC03-2320, ARCHIVE, BR-300, CL-4500, F-4500, NO2-4500N03, NO3-4500, NYTCL-8260, NYTCL-8270/SIM-RVT, NYTCL-8270-RVT, NYTCL-8270-SIM-RVT, S04-4500, SUB-AMMONIUM, SUB- IODIDE, SUB-SULFIDE, TAL-2007S, AG-RI, AL-RI, AS-RI, BA-RI, BE-RI, CA-RI, CD-RI, CO-RI, CR-RI, CU-RI, FE-RI, HG-R, K-RI, MG-RI, MN-RI, NA-RI, NI-RI, PB-RI, PREPR, SB-RI, SE-RI, TL-RI, V-RI, ZN-RI, TAL-600, AG-UI, AL-UI, AS-UI, BA-UI, BE-UI, CA-UI, CD-UI, CO-UI, CR-UI, CU-UI, FE-UI, HG-U, K-UI, MG-UI, MN-UI, NA-UI, NI-UI, PB-UI, PREPU, SB-UI, SE-UI, TL-UI, V-UI, ZN-UI, TDS-2540, TOTALNITROGEN, NO3/NO2-4500, TKN-4500, TNITROGEN, TP04-4500

L2538382-06 MW-12D

1 S0 18JUN25 13:22

NYTCL-8260; Non-Routine: Freon-113; Cyclohexane; Methyl Acetate; Methyl cyclohexane NYTCL-8270-RVT: Non-Routine: ;1,2,4,5-Tetrachlorobenzene; Atrazine; Benzaldehyde; Caprolactam L2538382-06 MS L2538382-06 MSD Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound 8260/8270 RL built NYTCL-8270 SIM Report list built SUB-Sulfide is direct sub to Pace Melville Package Due Date: 07/02/25

ALK-C03-2320, ALK-HC03-2320, ARCHIVE, BR-300, CL-4500, F-4500, MS/MSD, NO2-4500N03, NO3-4500, NYTCL-8260, NYTCL-8270/SIM-RVT, NYTCL-8270-RVT, NYTCL-8270-SIM-RVT, S04-4500, SUB-AMMONIUM, SUB- IODIDE, SUB-SULFIDE, TAL-2007S, AG-RI, AL-RI, AS-RI, BA-RI, BE-RI, CA-RI, CD-RI, CO-RI, CR-RI, CU-RI, FE-RI, HG-R, K-RI, MG-RI, MN-RI, NA-RI, NI-RI, PB-RI, PREPR, SB-RI, SE-RI, TL-RI, V-RI, ZN-RI, TAL-600, AG-UI, AL-UI, AS-UI, BA-UI, BE-UI, CA-UI, CD-UI, CO-UI, CR-UI, CU-UI, FE-UI, HG-U, K-UI, MG-UI, MN-UI, NA-UI, NI-UI, PB-UI, PREPU, SB-UI, SE-UI, TL-UI, V-UI, ZN-UI, TDS-2540, TOTALNITROGEN, NO3/NO2-4500, TKN-4500, TNITROGEN, TP04-4500

PACE ANALYTICAL SERVICES
LOGIN CHAIN OF CUSTODY REPORT
Jul 31 2025, 02:27 pm

Login Number: L2538382

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 2232.0006Y005

Received: 18JUN25 Due Date: 02JUL25

Sample # Client ID Mat PR Collected

L2538382-07 DUP_06182025

1 S0 18JUN25 12:00

Only one result per compound. If a sample requires High AND Low Levels, ok to report both as long as each compound is only reported once (can't have a result reported for a compound from both high AND low runs) Matrix description field has to be filled in appropriately for QC, ex: Trip Blank, Field Blank, etc Only one result per compound 8260/8270 RL built NYTCL-8270 SIM Report list built SUB-Sulfide is direct sub to Pace Melville NYTCL-8260; Non-Routine: ;Freon-113;Cyclohexane;Methyl Acetate;Methyl cyclohexane NYTCL-8270-RVT: Non-Routine: ;1,2,4,5-Tetrachlorobenzene;Atrazine;Benzaldehyde;Caprolactam Package Due Date: 07/02/25

ALK-C03-2320, ALK-HC03-2320, ARCHIVE, BR-300, CL-4500, F-4500, NO2-4500N03, NO3-4500, NYTCL-8260, NYTCL-8270/SIM-RVT, NYTCL-8270-RVT, NYTCL-8270-SIM-RVT, S04-4500, SUB-AMMONIUM, SUB- IODIDE, SUB-SULFIDE, TAL-2007S, AG-RI, AL-RI, AS-RI, BA-RI, BE-RI, CA-RI, CD-RI, CO-RI, CR-RI, CU-RI, FE-RI, HG-R, K-RI, MG-RI, MN-RI, NA-RI, NI-RI, PB-RI, PREPR, SB-RI, SE-RI, TL-RI, V-RI, ZN-RI, TAL-600, AG-UI, AL-UI, AS-UI, BA-UI, BE-UI, CA-UI, CD-UI, CO-UI, CR-UI, CU-UI, FE-UI, HG-U, K-UI, MG-UI, MN-UI, NA-UI, NI-UI, PB-UI, PREPU, SB-UI, SE-UI, TL-UI, V-UI, ZN-UI, TDS-2540, TOTALNITROGEN, NO3/NO2-4500, TKN-4500, TNITROGEN, TPO4-4500

L2538382-08 TRIP BLANK

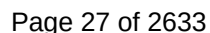
1 S0 18JUN25 00:00

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NYTCL-8260

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193 Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 1 of 2		Date Rec'd in Lab 6/19/25		L2538382 ROUX - NY 																																																																								
	Project Information Project Name: Coram Groundwater Event Project Location: 416 Miller Place-Yaphank Road Project # _____ (Use Project name as Project #) ☐					Deliverables ☐ ASP-A ☒ ASP-B ☐ EQulS (1 File) ☐ EQulS (4 File) PO # _____ ☐ Other _____																																																																									
	Client Information Client: ROUX Env.Eng.&Geology, DPC Address: 209 Shafter Street Islandia, NY 11749-5074 Phone: 631-232-2600 Fax: _____ Email: aiervolino@rouxinc.com					Regulatory Requirement ☐ NY TOGS ☐ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other _____ ☐ NY Unrestricted Use ☐ NYC Sewer Discharge			Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: _____ ☐ NJ ☐ NY ☐ Other: _____																																																																						
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Form No: 01-25 (rev. 30-Sept-2013)		Form No: 01-25 (rev. 30-Sept-2013)																																																																													

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				☒ Done ☐ Lab to do Preservation ☐ Lab to do (Please Specify below)							
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date Time	Sample Matrix	Sampler's Initials	SO4-4500/F-4500	TPO4-4500	Alk-Co3-2320/Alk-HCO3-23	SUB-Ammonium	SUB-IODIDE	Sample Specific Comments	
38382-01	MW-85	6/18/25 0900	AQ	RM	X	X	X	X	X		14
02	MW-80	0905									14
03	MW-50	1030									14
04	PZ-5	1045									14
05	MW-125	1320									24
06	MW-12D	1326		BW						MS/MSD triplicate	42
07	DUP 06/18/2025	1200		RM							14
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type Preservative		P A P P P A D A D A		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.	
		Relinquished By: <i>[Signature]</i> Date/Time: 6/18/25 1800 6/18/25 21:11 Anthony Green		Received By: <i>[Signature]</i> Date/Time: 6/18/25 1740 JUN 18 2025 2115 6/19/25 0350							



Organics

GC/MS 8260

Analysis

Volatiles QC Summary

Surrogate Recovery Summary

Form 2

Volatiles

Client: Roux Env. Eng. & Geology, DPC
Project Name: CORAM MATERIALS

Lab Number: L2538382
Project Number: 2232.0006Y005
Matrix: Trip Blank (Aqueous)/Water

CLIENT ID (LAB SAMPLE NO.)	SMC1 DCA	SMC2 TOL	SMC3 BFB	SMC4 DBFM	TOT OUT
MW-8S (L2538382-01)	106	105	120	108	0
MW-8D (L2538382-02)	107	99	108	106	0
MW-5D (L2538382-03)	109	98	112	107	0
PZ-5 (L2538382-04)	107	100	106	106	0
MW-12S (L2538382-05)	108	99	111	108	0
MW-12D (L2538382-06)	107	100	106	108	0
DUP_06182025 (L2538382-07)	109	102	110	104	0
TRIP BLANK (L2538382-08)	106	104	110	107	0
WG2084241-3LCS	99	103	108	96	0
WG2084241-4LCSD	93	102	109	99	0
WG2084241-5BLANK	101	103	111	100	0
MW-12DMS	100	104	103	100	0
MW-12DMSD	98	101	104	98	0

QC LIMITS

(70-130) DCA = 1,2-DICHLOROETHANE-D4
(70-130) TOL = TOLUENE-D8
(70-130) BFB = 4-BROMOFLUOROBENZENE
(70-130) DBFM = DIBROMOFLUOROMETHANE

* Values outside of QC limits

FORM II NYTCL-8260



Laboratory Control Sample Summary

Form 3

Volatiles

Client : Roux Env. Eng. & Geology, DPC Lab Number : L2538382
 Project Name : CORAM MATERIALS Project Number : 2232.0006Y005
 Matrix (Level) : WATER (LOW)
 LCS Sample ID : WG2084241-3 Analysis Date : 06/25/25 07:06 File ID : V08250625A01
 LCSD Sample ID : WG2084241-4 Analysis Date : 06/25/25 07:29 File ID : V08250625A02

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R			
Methylene chloride	10	8.3	83	10	7.9	79	5	70-130	20
1,1-Dichloroethane	10	9.3	93	10	8.4	84	10	70-130	20
Chloroform	10	8.9	89	10	8.2	82	8	70-130	20
Carbon tetrachloride	10	9.3	93	10	8.2	82	13	63-132	20
1,2-Dichloropropane	10	9.0	90	10	8.0	80	12	70-130	20
Dibromochloromethane	10	10	100	10	9.2	92	8	63-130	20
1,1,2-Trichloroethane	10	9.6	96	10	8.8	88	9	70-130	20
Tetrachloroethene	10	9.8	98	10	8.3	83	17	70-130	20
Chlorobenzene	10	9.8	98	10	8.8	88	11	75-130	20
Trichlorofluoromethane	10	8.7	87	10	7.5	75	15	62-150	20
1,2-Dichloroethane	10	9.5	95	10	8.6	86	10	70-130	20
1,1,1-Trichloroethane	10	9.8	98	10	8.5	85	14	67-130	20
Bromodichloromethane	10	9.6	96	10	8.7	87	10	67-130	20
trans-1,3-Dichloropropene	10	11	110	10	9.5	95	15	70-130	20
cis-1,3-Dichloropropene	10	9.9	99	10	9.0	90	10	70-130	20
Bromoform	10	9.9	99	10	8.3	83	18	54-136	20
1,1,2,2-Tetrachloroethane	10	10	100	10	9.3	93	7	67-130	20
Benzene	10	8.9	89	10	8.1	81	9	70-130	20
Toluene	10	9.9	99	10	8.8	88	12	70-130	20
Ethylbenzene	10	9.7	97	10	8.5	85	13	70-130	20
Chloromethane	10	8.1	81	10	7.0	70	15	64-130	20
Bromomethane	10	5.6	56	10	5.1	51	9	39-139	20
Vinyl chloride	10	9.5	95	10	8.2	82	15	55-140	20
Chloroethane	10	9.7	97	10	8.5	85	13	55-138	20
1,1-Dichloroethene	10	9.3	93	10	8.0	80	15	61-145	20
trans-1,2-Dichloroethene	10	9.4	94	10	8.5	85	10	70-130	20



Laboratory Control Sample Summary

Form 3

Volatiles

Client : Roux Env. Eng. & Geology, DPC Lab Number : L2538382
 Project Name : CORAM MATERIALS Project Number : 2232.0006Y005
 Matrix (Level) : WATER (LOW)
 LCS Sample ID : WG2084241-3 Analysis Date : 06/25/25 07:06 File ID : V08250625A01
 LCSD Sample ID : WG2084241-4 Analysis Date : 06/25/25 07:29 File ID : V08250625A02

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R			
Trichloroethene	10	9.4	94	10	8.2	82	14	70-130	20
1,2-Dichlorobenzene	10	11	110	10	9.1	91	19	70-130	20
1,3-Dichlorobenzene	10	10	100	10	8.8	88	13	70-130	20
1,4-Dichlorobenzene	10	10	100	10	8.7	87	14	70-130	20
Methyl tert butyl ether	10	9.0	90	10	8.4	84	7	63-130	20
p/m-Xylene	20	18	90	20	16	80	12	70-130	20
o-Xylene	20	18	90	20	16	80	12	70-130	20
cis-1,2-Dichloroethene	10	9.4	94	10	8.7	87	8	70-130	20
Styrene	20	16	80	20	15	75	6	70-130	20
Dichlorodifluoromethane	10	7.7	77	10	7.3	73	5	36-147	20
Acetone	10	9.6	96	10	9.0	90	6	58-148	20
Carbon disulfide	10	9.8	98	10	8.9	89	10	51-130	20
2-Butanone	10	8.3	83	10	8.1	81	2	63-138	20
4-Methyl-2-pentanone	10	8.6	86	10	8.2	82	5	59-130	20
2-Hexanone	10	8.7	87	10	8.2	82	6	57-130	20
Bromochloromethane	10	8.8	88	10	8.4	84	5	70-130	20
1,2-Dibromoethane	10	11	110	10	9.6	96	14	70-130	20
1,2-Dibromo-3-chloropropane	10	11	110	10	10	100	10	41-144	20
Isopropylbenzene	10	10	100	10	8.6	86	15	70-130	20
1,2,3-Trichlorobenzene	10	10	100	10	9.2	92	8	70-130	20
1,2,4-Trichlorobenzene	10	10	100	10	9.0	90	11	70-130	20
Methyl Acetate	10	9.1	91	10	8.5	85	7	70-130	20
Cyclohexane	10	8.5	85	10	7.0	70	19	70-130	20
Freon-113	10	9.9	99	10	8.5	85	15	70-130	20
Methyl cyclohexane	10	8.2	82	10	7.4	74	10	70-130	20



Matrix Spike Sample Summary

Form 3

Volatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : MW-12D
 Lab Sample ID : L2538382-06
 Matrix Spike : WG2084241-6
 Matrix Spike Dup : WG2084241-7

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Matrix (Level) : WATER (LOW)
 Analysis Date : 06/25/25 15:36
 MS Analysis Date : 06/25/25 16:44
 MSD Analysis Date : 06/25/25 17:06

Parameter	Sample Conc. (ug/l)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R			
Methylene chloride	ND	10	8.3	83	10	8.9	89	7	70-130	20
1,1-Dichloroethane	2.8	10	12	92	10	12	92	0	70-130	20
Chloroform	ND	10	8.6	86	10	9.2	92	7	70-130	20
Carbon tetrachloride	ND	10	8.9	89	10	9.6	96	8	63-132	20
1,2-Dichloropropane	ND	10	8.6	86	10	9.2	92	7	70-130	20
Dibromochloromethane	ND	10	10	100	10	10	100	0	63-130	20
1,1,2-Trichloroethane	ND	10	10	100	10	10	100	0	70-130	20
Tetrachloroethene	0.38J	10	9.0	90	10	9.5	95	5	70-130	20
Chlorobenzene	ND	10	9.2	92	10	9.4	94	2	75-130	20
Trichlorofluoromethane	ND	10	9.2	92	10	9.3	93	1	62-150	20
1,2-Dichloroethane	ND	10	9.0	90	10	9.6	96	6	70-130	20
1,1,1-Trichloroethane	4.0	10	14	100	10	14	100	0	67-130	20
Bromodichloromethane	ND	10	9.2	92	10	9.7	97	5	67-130	20
trans-1,3-Dichloropropene	ND	10	9.8	98	10	10	100	2	70-130	20
cis-1,3-Dichloropropene	ND	10	8.2	82	10	9.0	90	9	70-130	20
Bromoform	ND	10	9.0	90	10	9.5	95	5	54-136	20
1,1,1,2-Tetrachloroethane	ND	10	10	100	10	11	110	10	67-130	20
Benzene	ND	10	9.1	91	10	9.4	94	3	70-130	20
Toluene	ND	10	9.1	91	10	9.4	94	3	70-130	20
Ethylbenzene	ND	10	8.6	86	10	9.1	91	6	70-130	20
Chloromethane	ND	10	8.5	85	10	9.2	92	8	64-130	20
Bromomethane	ND	10	5.7	57	10	6.8	68	18	39-139	20



Matrix Spike Sample Summary

Form 3

Volatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : MW-12D
 Lab Sample ID : L2538382-06
 Matrix Spike : WG2084241-6
 Matrix Spike Dup : WG2084241-7

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Matrix (Level) : WATER (LOW)
 Analysis Date : 06/25/25 15:36
 MS Analysis Date : 06/25/25 16:44
 MSD Analysis Date : 06/25/25 17:06

Parameter	Sample Conc. (ug/l)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R			
Vinyl chloride	ND	10	10	100	10	11	110	10	55-140	20
Chloroethane	ND	10	10	100	10	10	100	0	55-138	20
1,1-Dichloroethene	3.4	10	12	86	10	13	96	8	61-145	20
trans-1,2-Dichloroethene	ND	10	8.9	89	10	9.3	93	4	70-130	20
Trichloroethene	ND	10	8.6	86	10	9.2	92	7	70-130	20
1,2-Dichlorobenzene	ND	10	9.2	92	10	9.4	94	2	70-130	20
1,3-Dichlorobenzene	ND	10	8.8	88	10	9.0	90	2	70-130	20
1,4-Dichlorobenzene	ND	10	8.8	88	10	9.1	91	3	70-130	20
Methyl tert butyl ether	ND	10	9.0	90	10	9.5	95	5	63-130	20
p/m-Xylene	ND	20	16	80	20	17	85	6	70-130	20
o-Xylene	ND	20	16	80	20	17	85	6	70-130	20
cis-1,2-Dichloroethene	ND	10	9.0	90	10	9.2	92	2	70-130	20
Styrene	ND	20	15	75	20	15	75	0	70-130	20
Dichlorodifluoromethane	ND	10	8.6	86	10	8.8	88	2	36-147	20
Acetone	ND	10	11	110	10	12	120	9	58-148	20
Carbon disulfide	ND	10	10	100	10	10	100	0	51-130	20
2-Butanone	ND	10	9.2	92	10	10	100	8	63-138	20
4-Methyl-2-pentanone	ND	10	8.6	86	10	10	100	15	59-130	20
2-Hexanone	ND	10	8.7	87	10	8.8	88	1	57-130	20
Bromochloromethane	ND	10	8.5	85	10	9.1	91	7	70-130	20
1,2-Dibromoethane	ND	10	10	100	10	11	110	10	70-130	20
1,2-Dibromo-3-chloropropane	ND	10	11	110	10	12	120	9	41-144	20



Matrix Spike Sample Summary

Form 3

Volatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : MW-12D
 Lab Sample ID : L2538382-06
 Matrix Spike : WG2084241-6
 Matrix Spike Dup : WG2084241-7

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Matrix (Level) : WATER (LOW)
 Analysis Date : 06/25/25 15:36
 MS Analysis Date : 06/25/25 16:44
 MSD Analysis Date : 06/25/25 17:06

Parameter	Sample Conc. (ug/l)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R			
Isopropylbenzene	ND	10	8.5	85	10	8.6	86	1	70-130	20
1,2,3-Trichlorobenzene	ND	10	9.0	90	10	9.7	97	7	70-130	20
1,2,4-Trichlorobenzene	ND	10	8.6	86	10	9.2	92	7	70-130	20
Methyl Acetate	ND	10	8.4	84	10	8.4	84	0	70-130	20
Cyclohexane	ND	10	7.3J	73	10	7.8J	78	7	70-130	20
Freon-113	ND	10	9.4	94	10	9.6	96	2	70-130	20
Methyl cyclohexane	ND	10	6.8J	68 Q	10	7.6J	76	11	70-130	20



Method Blank Summary

Form 4

Volatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab Sample ID	: WG2084241-5	Lab File ID	: V08250625A05
Instrument ID	: VOA108		
Matrix	: WATER	Analysis Date	: 06/25/25 08:36

Client Sample No.	Lab Sample ID	Analysis Date
WG2084241-3LCS	WG2084241-3	06/25/25 07:06
WG2084241-4LCSD	WG2084241-4	06/25/25 07:29
MW-8S	L2538382-01	06/25/25 13:42
MW-8D	L2538382-02	06/25/25 14:05
MW-5D	L2538382-03	06/25/25 14:28
PZ-5	L2538382-04	06/25/25 14:50
TRIP BLANK	L2538382-08	06/25/25 15:13
MW-12D	L2538382-06	06/25/25 15:36
DUP_06182025	L2538382-07	06/25/25 15:58
MW-12S	L2538382-05	06/25/25 16:21
MW-12DMS	WG2084241-6	06/25/25 16:44
MW-12DMSD	WG2084241-7	06/25/25 17:06



Instrument Performance Check (Tune) Summary

Form 5

Volatiles

Bromofluorobenzene (BFB)

Client : Roux Env. Eng. & Geology, DPC	Lab Number : L2538382
Project Name : CORAM MATERIALS	Project Number : 2232.0006Y005
Instrument ID : VOA108	Analysis Date : 06/11/25 02:40
Tune Standard : WG2077605-1	Tune File ID : V08250611ABF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	21.4
75	30.0 - 80.0% of mass 95	55.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.5
173	Less than 2.0% of mass 174	1.4 (1.4)1
174	Greater than 50.0% of mass 95	99.7
175	5.0 - 9.0% of mass 174	8.4 (8.4)1
176	Greater than 95.0% but less than 101% of mass	95.9 (96.2)1
177	5.0 - 9.0% of mass 176	5.8 (6.1)2

1-Value is % of mass 174 2-Value is % of mass 176

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD0.19PPB	R1975649-1	V08250611A04	06/11/25 04:08
STD0.5PPB	R1975649-3	V08250611A06	06/11/25 04:52
STD2PPB	R1975649-2	V08250611A08	06/11/25 05:36
STD10PPB	R1975649-4	V08250611A10	06/11/25 06:21
STD30PPB	R1975649-5	V08250611A11	06/11/25 06:43
STD80PPB	R1975649-6	V08250611A12	06/11/25 07:05
STD120PPB	R1975649-7	V08250611A13	06/11/25 07:27
STD200PPB	R1975649-9	V08250611A14	06/11/25 07:49
Correlation Data Summary	R1975649-8	V08250611A19	06/11/25 09:38
ICV Quant Report	R1975649-8	V08250611A19	06/11/25 09:38



Instrument Performance Check (Tune) Summary

Form 5

Volatiles

Bromofluorobenzene (BFB)

Client : Roux Env. Eng. & Geology, DPC	Lab Number : L2538382
Project Name : CORAM MATERIALS	Project Number : 2232.0006Y005
Instrument ID : VOA108	Analysis Date : 06/25/25 06:51
Tune Standard : WG2084241-1	Tune File ID : V08250625ABF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	22.2
75	30.0 - 80.0% of mass 95	56.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.1
173	Less than 2.0% of mass 174	0.7 (.8)1
174	Greater than 50.0% of mass 95	91.4
175	5.0 - 9.0% of mass 174	6.6 (7.2)1
176	Greater than 95.0% but less than 101% of mass	89.1 (97.5)1
177	5.0 - 9.0% of mass 176	5.8 (6.5)2

1-Value is % of mass 174 2-Value is % of mass 176

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG2084241-2CCAL	WG2084241-2	V08250625A01	06/25/25 07:06
WG2084241-3LCS	WG2084241-3	V08250625A01	06/25/25 07:06
WG2084241-4LCSD	WG2084241-4	V08250625A02	06/25/25 07:29
WG2084241-5BLANK	WG2084241-5	V08250625A05	06/25/25 08:36
MW-8S	L2538382-01	V08250625A18	06/25/25 13:42
MW-8D	L2538382-02	V08250625A19	06/25/25 14:05
MW-5D	L2538382-03	V08250625A20	06/25/25 14:28
PZ-5	L2538382-04	V08250625A21	06/25/25 14:50
TRIP BLANK	L2538382-08	V08250625A22	06/25/25 15:13
MW-12D	L2538382-06	V08250625A23	06/25/25 15:36
DUP_06182025	L2538382-07	V08250625A24	06/25/25 15:58
MW-12S	L2538382-05	V08250625A25	06/25/25 16:21
WG2084241-6MS	WG2084241-6	V08250625A26	06/25/25 16:44
WG2084241-7MSD	WG2084241-7	V08250625A27	06/25/25 17:06



Internal Standard Area and RT Summary

Form 8a

Volatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : VOA108
 Sample No : WG2084241-2

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Analysis Date : 06/25/25 07:06:00
 Lab File ID : V08250625A01

	Fluorobenzene (IS)		Chlorobenzene-d5		1,4-Dichlorobenzene-D4	
	Area	RT	Area	RT	Area	RT
WG2084241-2	305323	5.90	230501	9.41	131049	12.13
Upper Limit	610646	6.40	461002	9.91	262098	12.63
Lower Limit	152662	5.40	115251	8.91	65525	11.63
Sample ID						
WG2084241-3 LCS	305323	5.90	230501	9.41	131049	12.13
WG2084241-4 LCSD	302737	5.90	232779	9.40	139149	12.13
WG2084241-5 BLANK	285267	5.90	212466	9.41	113964	12.13
MW-8S	245353	5.91	184424	9.41	88873	12.14
MW-8D	248281	5.91	195643	9.41	106136	12.14
MW-5D	245466	5.91	194173	9.42	97099	12.14
PZ-5	247217	5.91	189687	9.42	104852	12.14
TRIP BLANK	237790	5.91	172974	9.41	87661	12.14
MW-12D	241805	5.91	185506	9.42	102137	12.14
DUP_06182025	235139	5.91	178414	9.41	93817	12.14
MW-12S	240369	5.91	191820	9.41	102414	12.14
MW-12D MS	268227	5.91	200154	9.41	122646	12.14
MW-12D MSD	275398	5.91	209473	9.41	127674	12.13

Area Upper Limit = +100% of internal standard area
 Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
 RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits





Date Created: 04/17/25
Created By: Jason Hebert
File: PM19302-1
Page: 1

Volatile Organics - EPA 8260D (WATER)

Holding Time: 14 days
Container/Sample Preservation: 3 - Vial HCl preserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Methylene chloride	75-09-2	3	0.678	ug/l	70-130	20	70-130	20	20			
1,1-Dichloroethane	75-34-3	0.75	0.21	ug/l	70-130	20	70-130	20	20			
Chloroform	67-66-3	0.75	0.222	ug/l	70-130	20	70-130	20	20			
Carbon tetrachloride	56-23-5	0.5	0.134	ug/l	63-132	20	63-132	20	20			
1,2-Dichloropropane	78-87-5	1.75	0.137	ug/l	70-130	20	70-130	20	20			
Dibromochloromethane	124-48-1	0.5	0.149	ug/l	63-130	20	63-130	20	20			
1,1,2-Trichloroethane	79-00-5	0.75	0.144	ug/l	70-130	20	70-130	20	20			
Tetrachloroethene	127-18-4	0.5	0.181	ug/l	70-130	20	70-130	20	20			
Chlorobenzene	108-90-7	0.5	0.178	ug/l	75-130	25	75-130	25	25			
Trichlorofluoromethane	75-69-4	2.5	0.161	ug/l	62-150	20	62-150	20	20			
1,2-Dichloroethane	107-06-2	0.5	0.132	ug/l	70-130	20	70-130	20	20			
1,1,1-Trichloroethane	71-55-6	0.5	0.158	ug/l	67-130	20	67-130	20	20			
Bromodichloromethane	75-27-4	0.5	0.192	ug/l	67-130	20	67-130	20	20			
trans-1,3-Dichloropropene	10061-02-6	0.5	0.164	ug/l	70-130	20	70-130	20	20			
cis-1,3-Dichloropropene	10061-01-5	0.5	0.144	ug/l	70-130	20	70-130	20	20			
1,3-Dichloropropene, Total	542-75-6	0.5	0.144	ug/l				20	20			
1,1-Dichloropropene	563-58-6	2.5	0.24	ug/l	70-130	20	70-130	20	20			
Bromoform	75-25-2	2	0.248	ug/l	54-136	20	54-136	20	20			
1,1,2,2-Tetrachloroethane	79-34-5	0.5	0.167	ug/l	67-130	20	67-130	20	20			
Benzene	71-43-2	0.5	0.159	ug/l	70-130	25	70-130	25	25			
Toluene	108-88-3	0.75	0.203	ug/l	70-130	25	70-130	25	25			
Ethylbenzene	100-41-4	0.5	0.167	ug/l	70-130	20	70-130	20	20			
Chloromethane	74-87-3	2.5	0.2	ug/l	64-130	20	64-130	20	20			
Bromomethane	74-83-9	1	0.256	ug/l	39-139	20	39-139	20	20			
Vinyl chloride	75-01-4	1	0.0714	ug/l	55-140	20	55-140	20	20			
Chloroethane	75-00-3	1	0.134	ug/l	55-138	20	55-138	20	20			
1,1-Dichloroethene	75-35-4	0.5	0.169	ug/l	61-145	25	61-145	25	25			
trans-1,2-Dichloroethene	156-60-5	0.75	0.163	ug/l	70-130	20	70-130	20	20			
1,2-Dichloroethene (total)	540-59-0	0.5	0.163	ug/l				20	20			
Trichloroethene	79-01-6	0.5	0.175	ug/l	70-130	25	70-130	25	25			
1,2-Dichlorobenzene	95-50-1	2.5	0.184	ug/l	70-130	20	70-130	20	20			
1,3-Dichlorobenzene	541-73-1	2.5	0.186	ug/l	70-130	20	70-130	20	20			
1,4-Dichlorobenzene	106-46-7	2.5	0.187	ug/l	70-130	20	70-130	20	20			
Methyl tert butyl ether	1634-04-4	1	0.166	ug/l	63-130	20	63-130	20	20			
p/m-Xylene	179601-23-1	1	0.332	ug/l	70-130	20	70-130	20	20			
o-Xylene	95-47-6	1	0.392	ug/l	70-130	20	70-130	20	20			
Xylene (Total)	1330-20-7	1	0.33	ug/l				20	20			
cis-1,2-Dichloroethene	156-59-2	0.5	0.187	ug/l	70-130	20	70-130	20	20			
Dibromomethane	74-95-3	5	0.363	ug/l	70-130	20	70-130	20	20			
1,4-Dichlorobutane	110-56-5	5	0.464	ug/l	70-130	20	70-130	20	20			
1,2,3-Trichloropropane	96-18-4	5	0.176	ug/l	64-130	20	64-130	20	20			
Styrene	100-42-5	1	0.359	ug/l	70-130	20	70-130	20	20			

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Pace Analytical Services.



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Date Created: 04/17/25
Created By: Jason Hebert
File: PM19302-1
Page: 2

Volatile Organics - EPA 8260D (WATER)

Holding Time: 14 days
Container/Sample Preservation: 3 - Vial HCl preserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Dichlorodifluoromethane	75-71-8	5	0.244	ug/l	36-147	20	36-147	20	20			
Acetone	67-64-1	5	1.46	ug/l	58-148	20	58-148	20	20			
Carbon disulfide	75-15-0	5	0.299	ug/l	51-130	20	51-130	20	20			
2-Butanone	78-93-3	5	1.94	ug/l	63-138	20	63-138	20	20			
Vinyl acetate	108-05-4	5	0.311	ug/l	70-130	20	70-130	20	20			
4-Methyl-2-pentanone	108-10-1	5	0.416	ug/l	59-130	20	59-130	20	20			
2-Hexanone	591-78-6	5	0.515	ug/l	57-130	20	57-130	20	20			
Ethyl methacrylate	97-63-2	5	0.606	ug/l	70-130	20	70-130	20	20			
Acrylonitrile	107-13-1	5	0.43	ug/l	70-130	20	70-130	20	20			
Bromochloromethane	74-97-5	2.5	0.152	ug/l	70-130	20	70-130	20	20			
Tetrahydrofuran	109-99-9	5	0.525	ug/l	58-130	20	58-130	20	20			
2,2-Dichloropropane	594-20-7	2.5	0.204	ug/l	63-133	20	63-133	20	20			
1,2-Dibromoethane	106-93-4	2	0.193	ug/l	70-130	20	70-130	20	20			
1,3-Dichloropropane	142-28-9	2.5	0.212	ug/l	70-130	20	70-130	20	20			
1,1,1,2-Tetrachloroethane	630-20-6	0.5	0.164	ug/l	64-130	20	64-130	20	20			
Bromobenzene	108-86-1	2.5	0.152	ug/l	70-130	20	70-130	20	20			
n-Butylbenzene	104-51-8	0.5	0.192	ug/l	53-136	20	53-136	20	20			
sec-Butylbenzene	135-98-8	0.5	0.181	ug/l	70-130	20	70-130	20	20			
tert-Butylbenzene	98-06-6	2.5	0.196	ug/l	70-130	20	70-130	20	20			
o-Chlorotoluene	95-49-8	2.5	0.215	ug/l	70-130	20	70-130	20	20			
p-Chlorotoluene	106-43-4	2.5	0.185	ug/l	70-130	20	70-130	20	20			
1,2-Dibromo-3-chloropropane	96-12-8	2.5	0.353	ug/l	41-144	20	41-144	20	20			
Hexachlorobutadiene	87-68-3	0.5	0.217	ug/l	63-130	20	63-130	20	20			
Isopropylbenzene	98-82-8	0.5	0.187	ug/l	70-130	20	70-130	20	20			
p-Isopropyltoluene	99-87-6	0.5	0.188	ug/l	70-130	20	70-130	20	20			
Naphthalene	91-20-3	2.5	0.216	ug/l	70-130	20	70-130	20	20			
n-Propylbenzene	103-65-1	0.5	0.173	ug/l	69-130	20	69-130	20	20			
1,2,3-Trichlorobenzene	87-61-6	2.5	0.234	ug/l	70-130	20	70-130	20	20			
1,2,4-Trichlorobenzene	120-82-1	2.5	0.22	ug/l	70-130	20	70-130	20	20			
1,3,5-Trimethylbenzene	108-67-8	2.5	0.217	ug/l	64-130	20	64-130	20	20			
1,2,4-Trimethylbenzene	95-63-6	2.5	0.191	ug/l	70-130	20	70-130	20	20			
trans-1,4-Dichloro-2-butene	110-57-6	2.5	0.213	ug/l	70-130	20	70-130	20	20			
Ethyl ether	60-29-7	2.5	0.163	ug/l	59-134	20	59-134	20	20			
1,2-Dichloroethane-d4	17060-07-0									70-130		
Toluene-d8	2037-26-5									70-130		
4-Bromofluorobenzene	460-00-4									70-130		
Dibromofluoromethane	1868-53-7									70-130		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Pace Analytical Services.



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Volatiles Sample Data

Results Summary

Form 1

Volatile Organics by GC/MS

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Lab ID : L2538382-01
 Client ID : MW-8S
 Sample Location : 416 MILLER PLACE-YAPHANK RD.
 Sample Matrix : WATER
 Analytical Method : 1,8260D
 Lab File ID : V08250625A18
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Date Collected : 06/18/25 09:00
 Date Received : 06/18/25
 Date Analyzed : 06/25/25 13:42
 Dilution Factor : 1
 Analyst : AJK
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U



Results Summary

Form 1

Volatile Organics by GC/MS

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Lab ID : L2538382-01
 Client ID : MW-8S
 Sample Location : 416 MILLER PLACE-YAPHANK RD.
 Sample Matrix : WATER
 Analytical Method : 1,8260D
 Lab File ID : V08250625A18
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Date Collected : 06/18/25 09:00
 Date Received : 06/18/25
 Date Analyzed : 06/25/25 13:42
 Dilution Factor : 1
 Analyst : AJK
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	3.2	5.0	1.5	J
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U



Results Summary

Form 1

Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-01	Date Collected	: 06/18/25 09:00
Client ID	: MW-8S	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/25/25 13:42
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: AJK
Lab File ID	: V08250625A18	Instrument ID	: VOA108
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U



Results Summary

Form 1

Volatile Organics by GC/MS

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Lab ID : L2538382-02
 Client ID : MW-8D
 Sample Location : 416 MILLER PLACE-YAPHANK RD.
 Sample Matrix : WATER
 Analytical Method : 1,8260D
 Lab File ID : V08250625A19
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Date Collected : 06/18/25 09:05
 Date Received : 06/18/25
 Date Analyzed : 06/25/25 14:05
 Dilution Factor : 1
 Analyst : AJK
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U



Results Summary

Form 1

Volatile Organics by GC/MS

Client : Roux Env. Eng. & Geology, DPC	Lab Number : L2538382
Project Name : CORAM MATERIALS	Project Number : 2232.0006Y005
Lab ID : L2538382-02	Date Collected : 06/18/25 09:05
Client ID : MW-8D	Date Received : 06/18/25
Sample Location : 416 MILLER PLACE-YAPHANK RD.	Date Analyzed : 06/25/25 14:05
Sample Matrix : WATER	Dilution Factor : 1
Analytical Method : 1,8260D	Analyst : AJK
Lab File ID : V08250625A19	Instrument ID : VOA108
Sample Amount : 10 ml	GC Column : RTX-502.2
Level : LOW	%Solids : N/A
Extract Volume (MeOH) : N/A	Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U



Results Summary

Form 1

Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-02	Date Collected	: 06/18/25 09:05
Client ID	: MW-8D	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/25/25 14:05
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: AJK
Lab File ID	: V08250625A19	Instrument ID	: VOA108
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U



Results Summary

Form 1

Volatile Organics by GC/MS

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Lab ID : L2538382-03
 Client ID : MW-5D
 Sample Location : 416 MILLER PLACE-YAPHANK RD.
 Sample Matrix : WATER
 Analytical Method : 1,8260D
 Lab File ID : V08250625A20
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Date Collected : 06/18/25 10:30
 Date Received : 06/18/25
 Date Analyzed : 06/25/25 14:28
 Dilution Factor : 1
 Analyst : AJK
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	0.78	1.0	0.14	J
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	0.87	0.50	0.18	
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	0.41	0.50	0.17	J



Results Summary

Form 1

Volatile Organics by GC/MS

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Lab ID : L2538382-03
 Client ID : MW-5D
 Sample Location : 416 MILLER PLACE-YAPHANK RD.
 Sample Matrix : WATER
 Analytical Method : 1,8260D
 Lab File ID : V08250625A20
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Date Collected : 06/18/25 10:30
 Date Received : 06/18/25
 Date Analyzed : 06/25/25 14:28
 Dilution Factor : 1
 Analyst : AJK
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U



Results Summary

Form 1

Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-03	Date Collected	: 06/18/25 10:30
Client ID	: MW-5D	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/25/25 14:28
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: AJK
Lab File ID	: V08250625A20	Instrument ID	: VOA108
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U



Results Summary

Form 1

Volatile Organics by GC/MS

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Lab ID : L2538382-04
 Client ID : PZ-5
 Sample Location : 416 MILLER PLACE-YAPHANK RD.
 Sample Matrix : WATER
 Analytical Method : 1,8260D
 Lab File ID : V08250625A21
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Date Collected : 06/18/25 10:45
 Date Received : 06/18/25
 Date Analyzed : 06/25/25 14:50
 Dilution Factor : 1
 Analyst : AJK
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U



Results Summary

Form 1

Volatile Organics by GC/MS

Client : Roux Env. Eng. & Geology, DPC	Lab Number : L2538382
Project Name : CORAM MATERIALS	Project Number : 2232.0006Y005
Lab ID : L2538382-04	Date Collected : 06/18/25 10:45
Client ID : PZ-5	Date Received : 06/18/25
Sample Location : 416 MILLER PLACE-YAPHANK RD.	Date Analyzed : 06/25/25 14:50
Sample Matrix : WATER	Dilution Factor : 1
Analytical Method : 1,8260D	Analyst : AJK
Lab File ID : V08250625A21	Instrument ID : VOA108
Sample Amount : 10 ml	GC Column : RTX-502.2
Level : LOW	%Solids : N/A
Extract Volume (MeOH) : N/A	Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	2.2	5.0	1.5	J
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U



Results Summary

Form 1

Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-04	Date Collected	: 06/18/25 10:45
Client ID	: PZ-5	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/25/25 14:50
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: AJK
Lab File ID	: V08250625A21	Instrument ID	: VOA108
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U



Results Summary

Form 1

Volatile Organics by GC/MS

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Lab ID : L2538382-05
 Client ID : MW-12S
 Sample Location : 416 MILLER PLACE-YAPHANK RD.
 Sample Matrix : WATER
 Analytical Method : 1,8260D
 Lab File ID : V08250625A25
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Date Collected : 06/18/25 13:20
 Date Received : 06/18/25
 Date Analyzed : 06/25/25 16:21
 Dilution Factor : 1
 Analyst : AJK
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U



Results Summary

Form 1

Volatile Organics by GC/MS

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Lab ID : L2538382-05
 Client ID : MW-12S
 Sample Location : 416 MILLER PLACE-YAPHANK RD.
 Sample Matrix : WATER
 Analytical Method : 1,8260D
 Lab File ID : V08250625A25
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Date Collected : 06/18/25 13:20
 Date Received : 06/18/25
 Date Analyzed : 06/25/25 16:21
 Dilution Factor : 1
 Analyst : AJK
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	1.8	5.0	1.5	J
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U



Results Summary

Form 1

Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-05	Date Collected	: 06/18/25 13:20
Client ID	: MW-12S	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/25/25 16:21
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: AJK
Lab File ID	: V08250625A25	Instrument ID	: VOA108
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U



Results Summary

Form 1

Volatile Organics by GC/MS

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Lab ID : L2538382-06
 Client ID : MW-12D
 Sample Location : 416 MILLER PLACE-YAPHANK RD.
 Sample Matrix : WATER
 Analytical Method : 1,8260D
 Lab File ID : V08250625A23
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Date Collected : 06/18/25 13:22
 Date Received : 06/18/25
 Date Analyzed : 06/25/25 15:36
 Dilution Factor : 1
 Analyst : AJK
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	2.8	2.5	0.70	
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	0.38	0.50	0.18	J
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	4.0	2.5	0.70	
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	3.4	0.50	0.17	



Results Summary

Form 1

Volatile Organics by GC/MS

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Lab ID : L2538382-06
 Client ID : MW-12D
 Sample Location : 416 MILLER PLACE-YAPHANK RD.
 Sample Matrix : WATER
 Analytical Method : 1,8260D
 Lab File ID : V08250625A23
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Date Collected : 06/18/25 13:22
 Date Received : 06/18/25
 Date Analyzed : 06/25/25 15:36
 Dilution Factor : 1
 Analyst : AJK
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U



Results Summary

Form 1

Volatile Organics by GC/MS

Client : Roux Env. Eng. & Geology, DPC	Lab Number : L2538382
Project Name : CORAM MATERIALS	Project Number : 2232.0006Y005
Lab ID : L2538382-06	Date Collected : 06/18/25 13:22
Client ID : MW-12D	Date Received : 06/18/25
Sample Location : 416 MILLER PLACE-YAPHANK RD.	Date Analyzed : 06/25/25 15:36
Sample Matrix : WATER	Dilution Factor : 1
Analytical Method : 1,8260D	Analyst : AJK
Lab File ID : V08250625A23	Instrument ID : VOA108
Sample Amount : 10 ml	GC Column : RTX-502.2
Level : LOW	%Solids : N/A
Extract Volume (MeOH) : N/A	Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U



Results Summary

Form 1

Volatile Organics by GC/MS

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Lab ID : L2538382-07
 Client ID : DUP_06182025
 Sample Location : 416 MILLER PLACE-YAPHANK RD.
 Sample Matrix : WATER
 Analytical Method : 1,8260D
 Lab File ID : V08250625A24
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Date Collected : 06/18/25 12:00
 Date Received : 06/18/25
 Date Analyzed : 06/25/25 15:58
 Dilution Factor : 1
 Analyst : AJK
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U



Results Summary

Form 1

Volatile Organics by GC/MS

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Lab ID : L2538382-07
 Client ID : DUP_06182025
 Sample Location : 416 MILLER PLACE-YAPHANK RD.
 Sample Matrix : WATER
 Analytical Method : 1,8260D
 Lab File ID : V08250625A24
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Date Collected : 06/18/25 12:00
 Date Received : 06/18/25
 Date Analyzed : 06/25/25 15:58
 Dilution Factor : 1
 Analyst : AJK
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U



Results Summary

Form 1

Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-07	Date Collected	: 06/18/25 12:00
Client ID	: DUP_06182025	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/25/25 15:58
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: AJK
Lab File ID	: V08250625A24	Instrument ID	: VOA108
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U



Results Summary

Form 1

Volatile Organics by GC/MS

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Lab ID : L2538382-08
 Client ID : TRIP BLANK
 Sample Location : 416 MILLER PLACE-YAPHANK RD.
 Sample Matrix : Trip Blank (aqueous)
 Analytical Method : 1,8260D
 Lab File ID : V08250625A22
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Date Collected : 06/18/25 00:00
 Date Received : 06/18/25
 Date Analyzed : 06/25/25 15:13
 Dilution Factor : 1
 Analyst : AJK
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U



Results Summary

Form 1

Volatile Organics by GC/MS

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Lab ID : L2538382-08
 Client ID : TRIP BLANK
 Sample Location : 416 MILLER PLACE-YAPHANK RD.
 Sample Matrix : Trip Blank (aqueous)
 Analytical Method : 1,8260D
 Lab File ID : V08250625A22
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Date Collected : 06/18/25 00:00
 Date Received : 06/18/25
 Date Analyzed : 06/25/25 15:13
 Dilution Factor : 1
 Analyst : AJK
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U



Results Summary

Form 1

Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-08	Date Collected	: 06/18/25 00:00
Client ID	: TRIP BLANK	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/25/25 15:13
Sample Matrix	: Trip Blank (aqueous)	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: AJK
Lab File ID	: V08250625A22	Instrument ID	: VOA108
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U



Results Summary

Form 1

Volatile Organics by GC/MS

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Lab ID : WG2084241-5
 Client ID : WG2084241-5BLANK
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8260D
 Lab File ID : V08250625A05
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 06/25/25 08:36
 Dilution Factor : 1
 Analyst : PID
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.14	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	U



Results Summary

Form 1

Volatile Organics by GC/MS

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Lab ID : WG2084241-5
 Client ID : WG2084241-5BLANK
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8260D
 Lab File ID : V08250625A05
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 06/25/25 08:36
 Dilution Factor : 1
 Analyst : PID
 Instrument ID : VOA108
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.17	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
79-20-9	Methyl Acetate	ND	2.0	0.23	U
110-82-7	Cyclohexane	ND	10	0.27	U



Results Summary

Form 1

Volatile Organics by GC/MS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: WG2084241-5	Date Collected	: NA
Client ID	: WG2084241-5BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 06/25/25 08:36
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260D	Analyst	: PID
Lab File ID	: V08250625A05	Instrument ID	: VOA108
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
76-13-1	Freon-113	ND	2.5	0.70	U
108-87-2	Methyl cyclohexane	ND	10	0.40	U



Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250625A\
 Data File : V08250625A18.d
 Acq On : 25 Jun 2025 1:42 pm
 Operator : VOA108:AJK
 Sample : L2538382-01,31,10,10,,A
 Misc : WG2084241,ICAL22356
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 26 15:51:20 2025
 Quant Method : K:\VOA108\2025\250625A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250625A\V08250625A01.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.906	96	245353	10.000	ug/L	0.00
Standard Area 1 = 305323			Recovery =	80.36%		
59) Chlorobenzene-d5	9.410	117	184424	10.000	ug/L	0.00
Standard Area 1 = 230501			Recovery =	80.01%		
79) 1,4-Dichlorobenzene-d4	12.137	152	88873	10.000	ug/L	0.00
Standard Area 1 = 131049			Recovery =	67.82%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.109	113	85335	10.797	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	107.97%		
43) 1,2-Dichloroethane-d4	5.626	65	80097	10.610	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	106.10%		
60) Toluene-d8	7.583	98	237012	10.516	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	105.16%		
83) 4-Bromofluorobenzene	10.916	95	72634	11.988	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	119.88%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.910	50	67	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.176	94	678	0.123	ug/L #	58
6) Chloroethane	2.322	64	77	N.D.		
7) Trichlorofluoromethane	2.422	101	94	N.D.		
10) 1,1-Dichloroethene	2.901	96	64	N.D.		
11) Carbon disulfide	2.927	76	341	N.D.		
12) Freon-113	2.901	101	63	N.D.		
15) Methylene chloride	3.433	84	81	N.D.		
17) Acetone	3.479	43	3958	3.216	ug/L #	88
18) trans-1,2-Dichloroethene	3.593	96	1698	0.274	ug/L	91
19) Methyl acetate	0.000		0	N.D.	d	
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	4.677	96	79	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250625A\
 Data File : V08250625A18.d
 Acq On : 25 Jun 2025 1:42 pm
 Operator : VOA108:AJK
 Sample : L2538382-01,31,10,10,,A
 Misc : WG2084241,ICAL22356
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 26 15:51:20 2025
 Quant Method : K:\VOA108\2025\250625A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250625A\V08250625A01.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37)	1,1,1-Trichloroethane	0.000		0		N.D.	
39)	2-Butanone	5.222	43	121		N.D.	
41)	Benzene	0.000		0		N.D.	
44)	1,2-Dichloroethane	5.694	62	220		N.D.	
47)	Methyl cyclohexane	0.000		0		N.D.	
48)	Trichloroethene	5.995	95	125		N.D.	
51)	1,2-Dichloropropane	0.000		0		N.D.	
54)	Bromodichloromethane	0.000		0		N.D.	
58)	cis-1,3-Dichloropropene	0.000		0		N.D.	
61)	Toluene	7.637	92	201		N.D.	
62)	4-Methyl-2-pentanone	0.000		0		N.D.	
63)	Tetrachloroethene	0.000		0		N.D.	
65)	trans-1,3-Dichloropropene	0.000		0		N.D.	
68)	1,1,2-Trichloroethane	0.000		0		N.D.	
69)	Chlorodibromomethane	0.000		0		N.D.	
71)	1,2-Dibromoethane	0.000		0		N.D.	
72)	2-Hexanone	9.081	43	69		N.D.	
73)	Chlorobenzene	9.444	112	63		N.D.	
74)	Ethylbenzene	9.423	91	68		N.D.	
76)	p/m Xylene	0.000		0		N.D.	
77)	o Xylene	0.000		0		N.D.	
78)	Styrene	0.000		0		N.D.	
80)	Bromoform	0.000		0		N.D.	
82)	Isopropylbenzene	0.000		0		N.D.	
87)	1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
100)	1,3-Dichlorobenzene	0.000		0		N.D.	
101)	1,4-Dichlorobenzene	0.000		0		N.D.	
104)	1,2-Dichlorobenzene	0.000		0		N.D.	
106)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
109)	1,2,4-Trichlorobenzene	0.000		0		N.D.	
111)	1,2,3-Trichlorobenzene	0.000		0		N.D.	

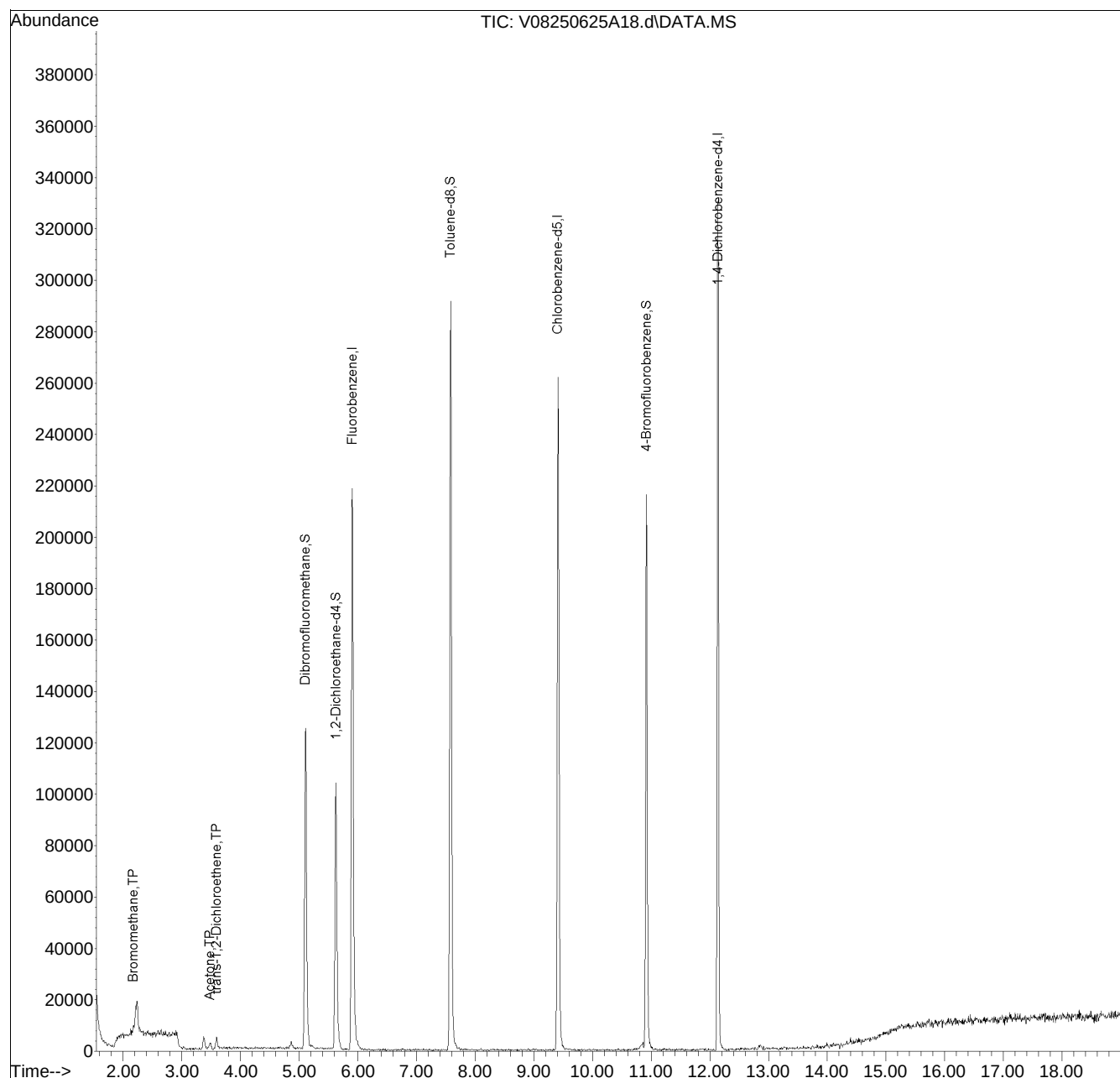
(#) = qualifier out of range (m) = manual integration (+) = signals summed

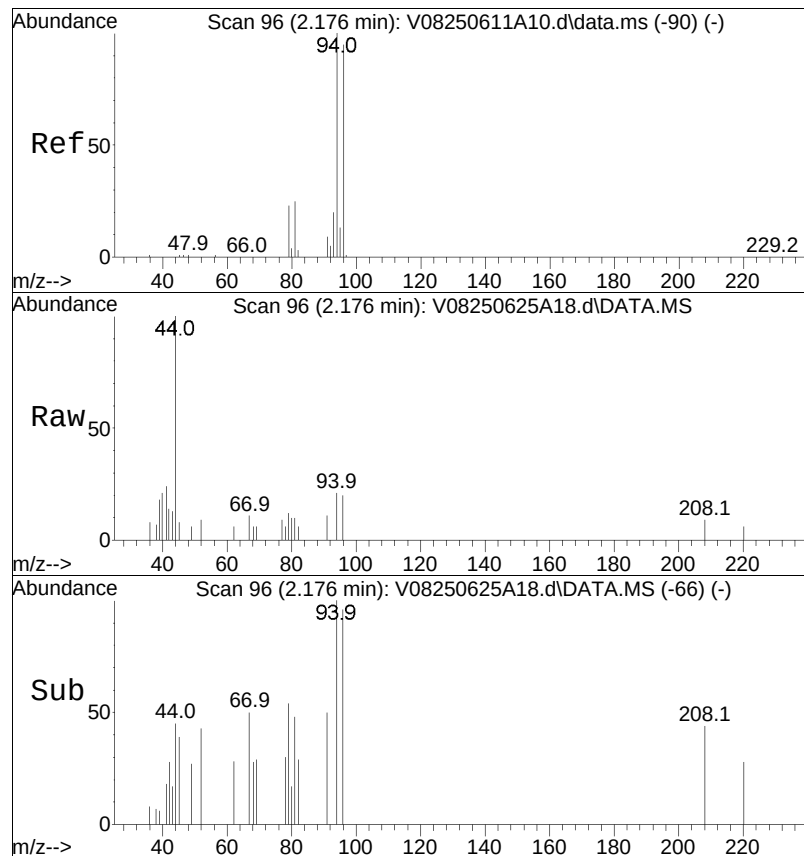
Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250625A\
 Data File : V08250625A18.d
 Acq On : 25 Jun 2025 1:42 pm
 Operator : VOA108:AJK
 Sample : L2538382-01,31,10,10,,A
 Misc : WG2084241,ICAL22356
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 26 15:51:20 2025
 Quant Method : K:\VOA108\2025\250625A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

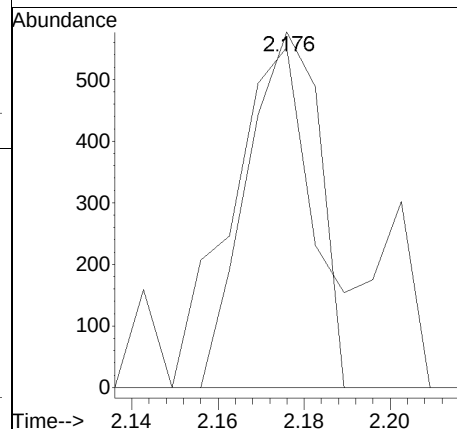
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

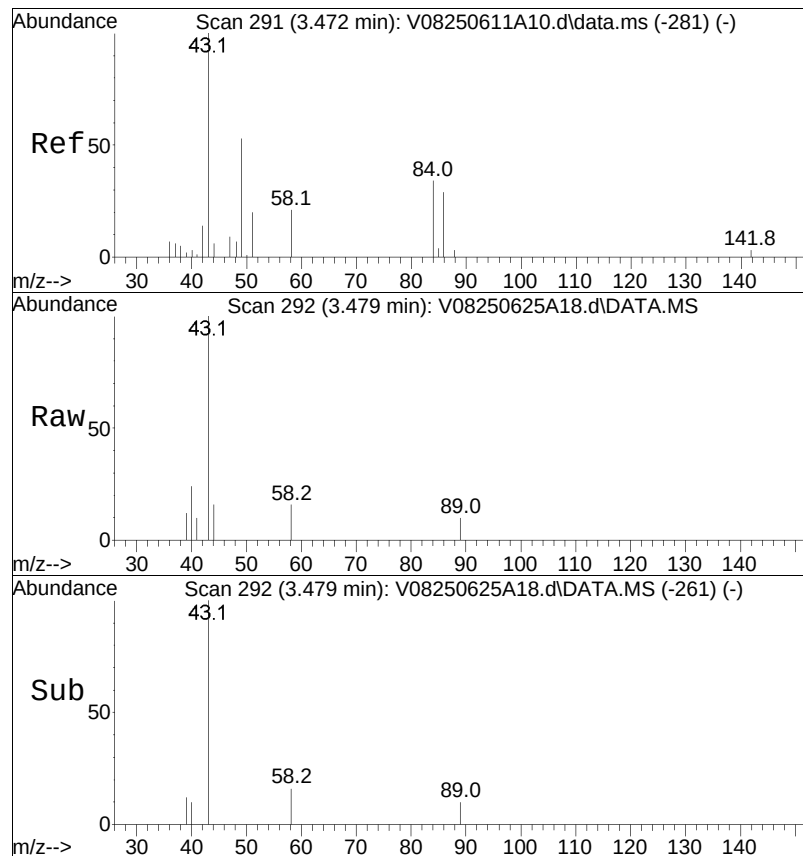




#5
 Bromomethane
 Concen: 0.12 ug/L
 RT: 2.176 min Scan# 96
 Delta R.T. -0.000 min
 Lab File: V08250625A18.d
 Acq: 25 Jun 2025 1:42 pm

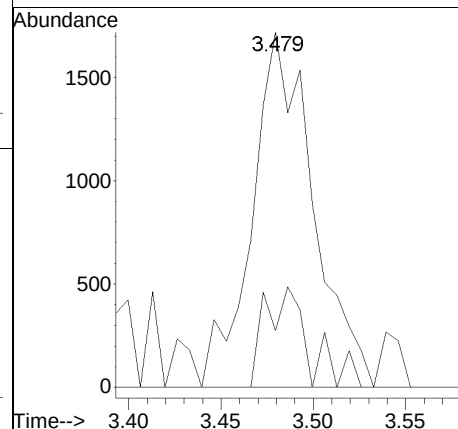
Tgt Ion	Ratio	Lower	Upper
94	100		
96	138.9	77.7	117.7#

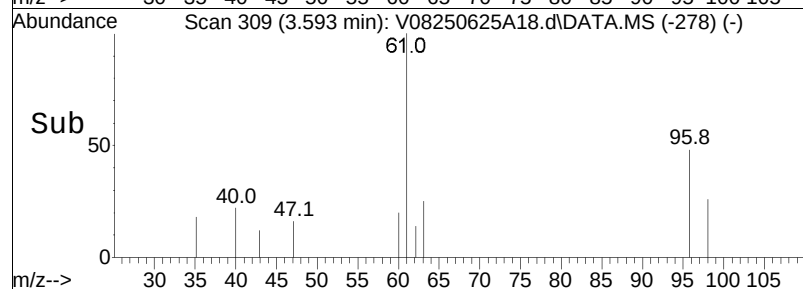
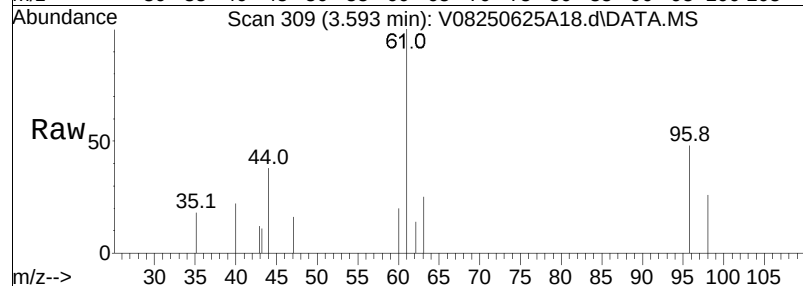
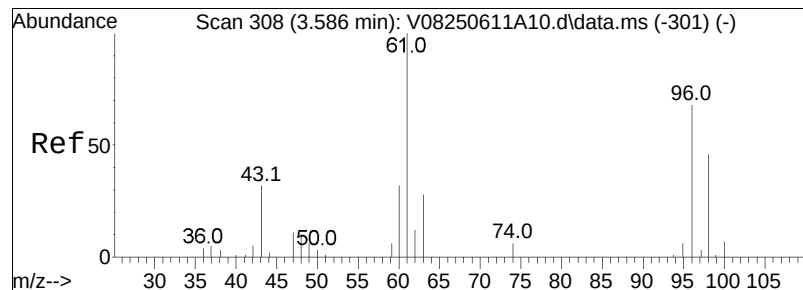




#17
 Acetone
 Concen: 3.22 ug/L
 RT: 3.479 min Scan# 292
 Delta R.T. 0.007 min
 Lab File: V08250625A18.d
 Acq: 25 Jun 2025 1:42 pm

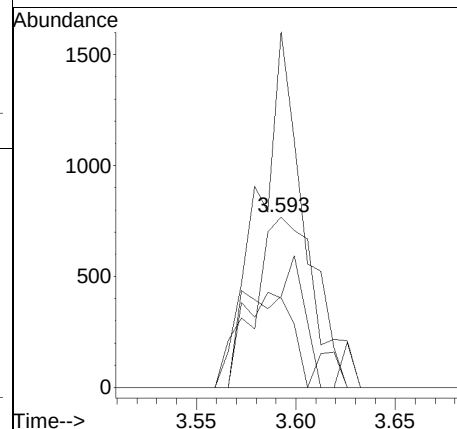
Tgt	Ion	Ratio	Lower	Upper
43	100			
58	20.6	21.6	32.4	





#18
 trans-1,2-Dichloroethene
 Concen: 0.27 ug/L
 RT: 3.593 min Scan# 309
 Delta R.T. 0.007 min
 Lab File: V08250625A18.d
 Acq: 25 Jun 2025 1:42 pm

Tgt Ion:	96	Resp:	1698
Ion Ratio	Lower	Upper	
96	100		
61	148.1	90.2	187.4
98	58.4	42.2	87.6
63	49.9	27.6	57.4



Manual Integration Report

Data Path	: K:\V0A108\2025\250625A\	QMethod	: V108_250611A_8260.m
Data File	: V08250625A18.d	Operator	: V0A108:AJK
Date Inj'd	: 6/25/2025 1:42 pm	Instrument	: V0A 108
Sample	: L2538382-01,31,10,10,,A	Quant Date	: 6/26/2025 3:42 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250625A\
 Data File : V08250625A19.d
 Acq On : 25 Jun 2025 2:05 pm
 Operator : VOA108:AJK
 Sample : L2538382-02,31,10,10,,A
 Misc : WG2084241,ICAL22356
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 26 15:42:46 2025
 Quant Method : K:\VOA108\2025\250625A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250625A\V08250625A01.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.906	96	248281	10.000	ug/L	0.00
Standard Area 1 = 305323			Recovery	=	81.32%	
59) Chlorobenzene-d5	9.410	117	195643	10.000	ug/L	0.00
Standard Area 1 = 230501			Recovery	=	84.88%	
79) 1,4-Dichlorobenzene-d4	12.137	152	106136	10.000	ug/L	0.00
Standard Area 1 = 131049			Recovery	=	80.99%	
System Monitoring Compounds						
36) Dibromofluoromethane	5.102	113	84409	10.554	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	105.54%	
43) 1,2-Dichloroethane-d4	5.626	65	81963	10.729	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	107.29%	
60) Toluene-d8	7.583	98	235687	9.857	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	98.57%	
83) 4-Bromofluorobenzene	10.916	95	78464	10.844	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	108.44%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	0.000		0		N.D.	
3) Chloromethane	0.000		0		N.D.	
4) Vinyl chloride	1.937	62	63		N.D.	
5) Bromomethane	2.176	94	504	0.091	ug/L	100
6) Chloroethane	2.263	64	139		N.D.	
7) Trichlorofluoromethane	0.000		0		N.D.	
10) 1,1-Dichloroethene	2.894	96	639	0.076	ug/L #	84
11) Carbon disulfide	2.908	76	231		N.D.	
12) Freon-113	0.000		0		N.D.	
15) Methylene chloride	0.000		0		N.D.	
17) Acetone	3.486	43	1076	0.864	ug/L #	60
18) trans-1,2-Dichloroethene	0.000		0		N.D.	
19) Methyl acetate	3.606	43	101		N.D.	
20) Methyl tert-butyl ether	3.686	73	1220	0.081	ug/L #	75
23) 1,1-Dichloroethane	4.151	63	173		N.D.	
28) cis-1,2-Dichloroethene	0.000		0		N.D.	
30) Bromochloromethane	0.000		0		N.D.	
31) Cyclohexane	0.000		0		N.D.	
32) Chloroform	4.916	83	1191	0.093	ug/L #	87
34) Carbon tetrachloride	0.000		0		N.D.	

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250625A\
 Data File : V08250625A19.d
 Acq On : 25 Jun 2025 2:05 pm
 Operator : VOA108:AJK
 Sample : L2538382-02,31,10,10,,A
 Misc : WG2084241,ICAL22356
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 26 15:42:46 2025
 Quant Method : K:\VOA108\2025\250625A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250625A\V08250625A01.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
37)	1,1,1-Trichloroethane	5.122	97	715	N.D.			
39)	2-Butanone	5.222	43	60	N.D.			
41)	Benzene	5.482	78	492	N.D.			
44)	1,2-Dichloroethane	0.000		0	N.D.			
47)	Methyl cyclohexane	0.000		0	N.D.			
48)	Trichloroethene	5.995	95	138	N.D.			
51)	1,2-Dichloropropane	0.000		0	N.D.			
54)	Bromodichloromethane	0.000		0	N.D.			
58)	cis-1,3-Dichloropropene	0.000		0	N.D.			
61)	Toluene	7.631	92	347	N.D.			
62)	4-Methyl-2-pentanone	0.000		0	N.D.			
63)	Tetrachloroethene	8.096	166	65	N.D.			
65)	trans-1,3-Dichloropropene	0.000		0	N.D.			
68)	1,1,2-Trichloroethane	0.000		0	N.D.			
69)	Chlorodibromomethane	0.000		0	N.D.			
71)	1,2-Dibromoethane	0.000		0	N.D.			
72)	2-Hexanone	8.903	43	92	N.D.			
73)	Chlorobenzene	0.000		0	N.D.			
74)	Ethylbenzene	9.403	91	376	N.D.			
76)	p/m Xylene	9.677	106	170	0.566	ug/L	#	8
77)	o Xylene	10.197	106	65	N.D.			
78)	Styrene	0.000		0	N.D.			
80)	Bromoform	0.000		0	N.D.			
82)	Isopropylbenzene	0.000		0	N.D.			
87)	1,1,2,2-Tetrachloroethane	0.000		0	N.D.			
100)	1,3-Dichlorobenzene	0.000		0	N.D.			
101)	1,4-Dichlorobenzene	0.000		0	N.D.			
104)	1,2-Dichlorobenzene	0.000		0	N.D.			
106)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.			
109)	1,2,4-Trichlorobenzene	0.000		0	N.D.			
111)	1,2,3-Trichlorobenzene	0.000		0	N.D.			

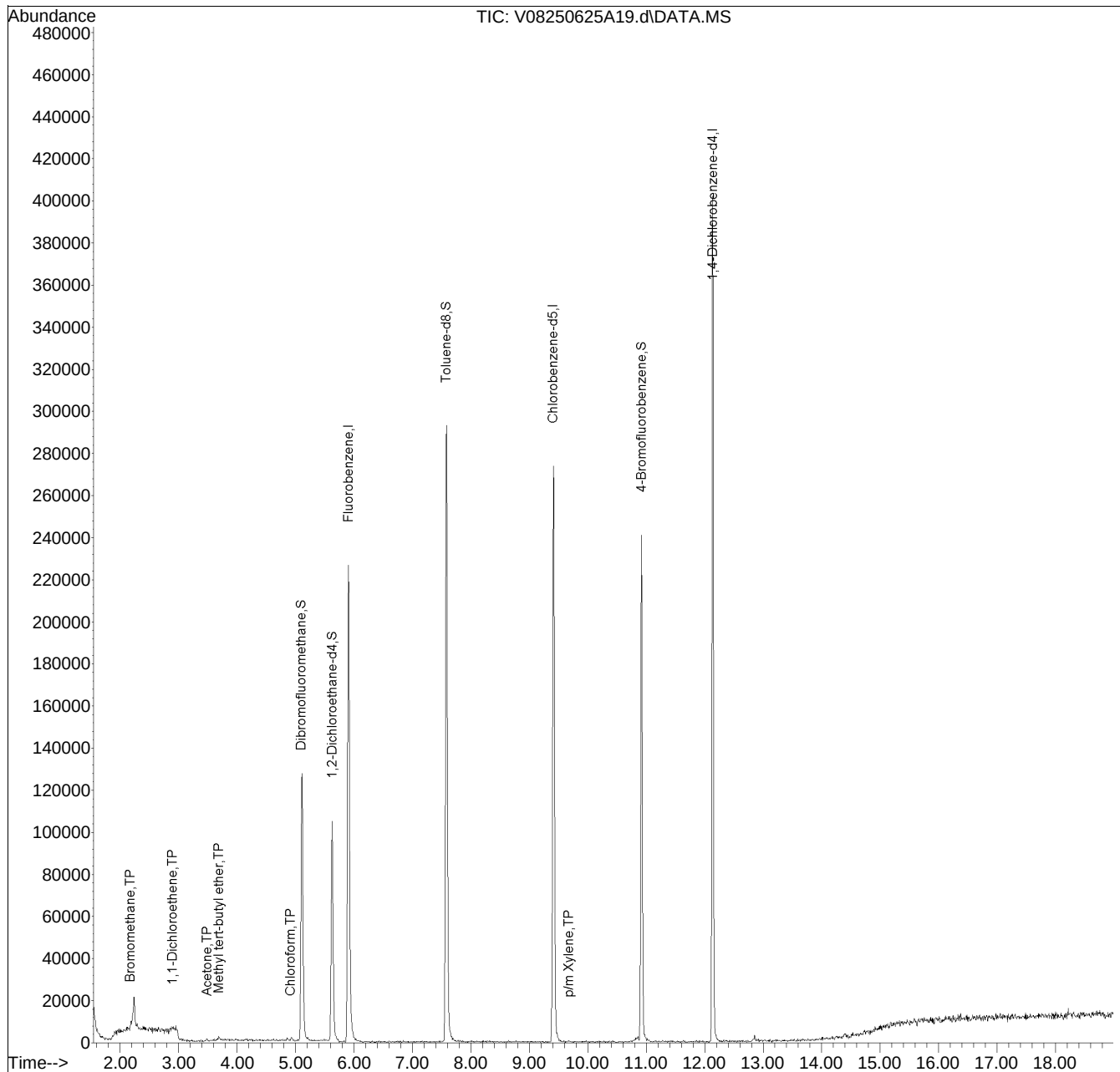
(#) = qualifier out of range (m) = manual integration (+) = signals summed

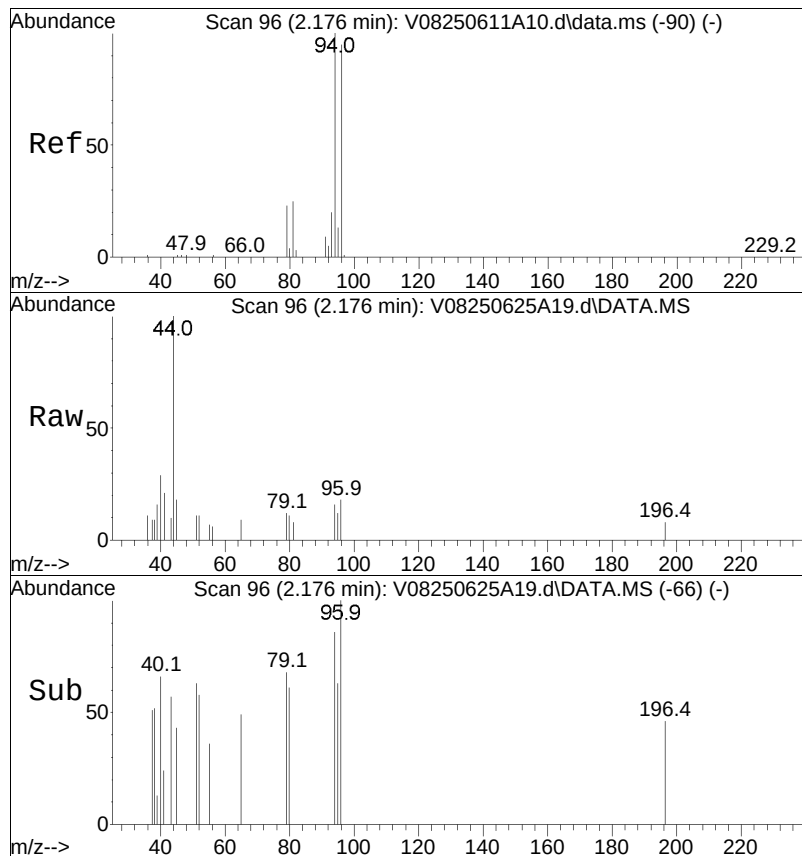
Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250625A\
 Data File : V08250625A19.d
 Acq On : 25 Jun 2025 2:05 pm
 Operator : VOA108:AJK
 Sample : L2538382-02,31,10,10,,A
 Misc : WG2084241,ICAL22356
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 26 15:42:46 2025
 Quant Method : K:\VOA108\2025\250625A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

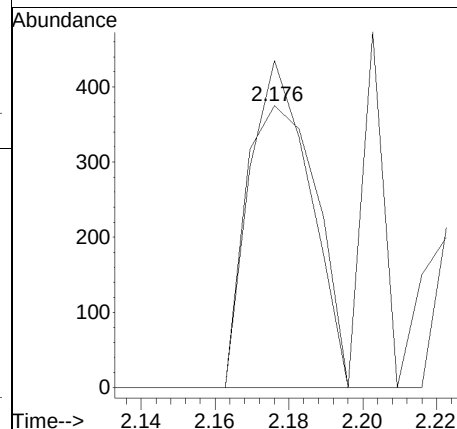
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

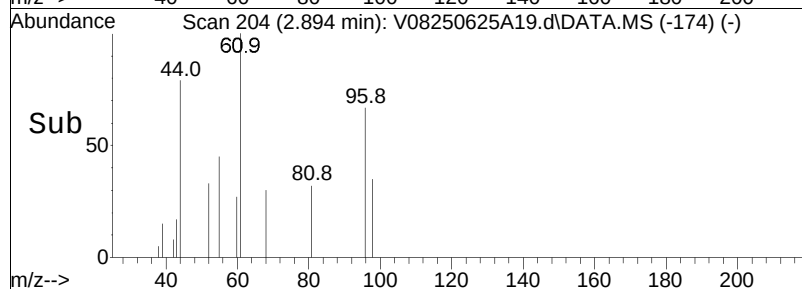
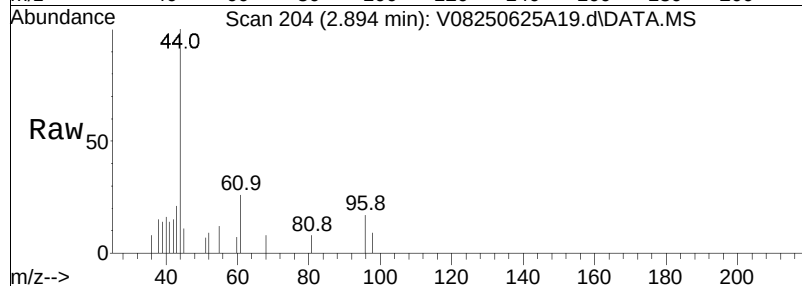
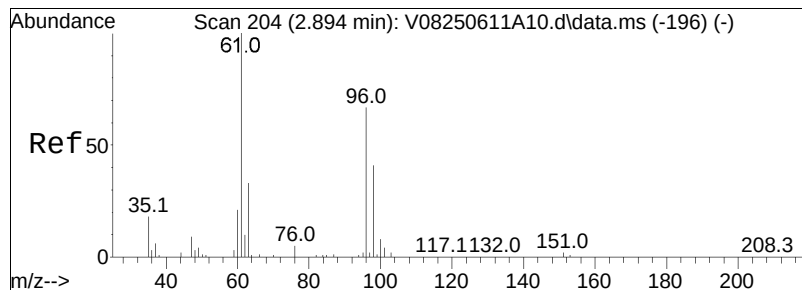




#5
 Bromomethane
 Concen: 0.09 ug/L
 RT: 2.176 min Scan# 96
 Delta R.T. 0.000 min
 Lab File: V08250625A19.d
 Acq: 25 Jun 2025 2:05 pm

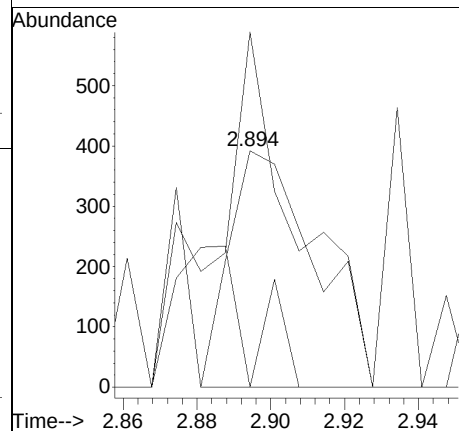
Tgt Ion	Ratio	Lower	Upper
94	100		
96	98.0	77.7	117.7

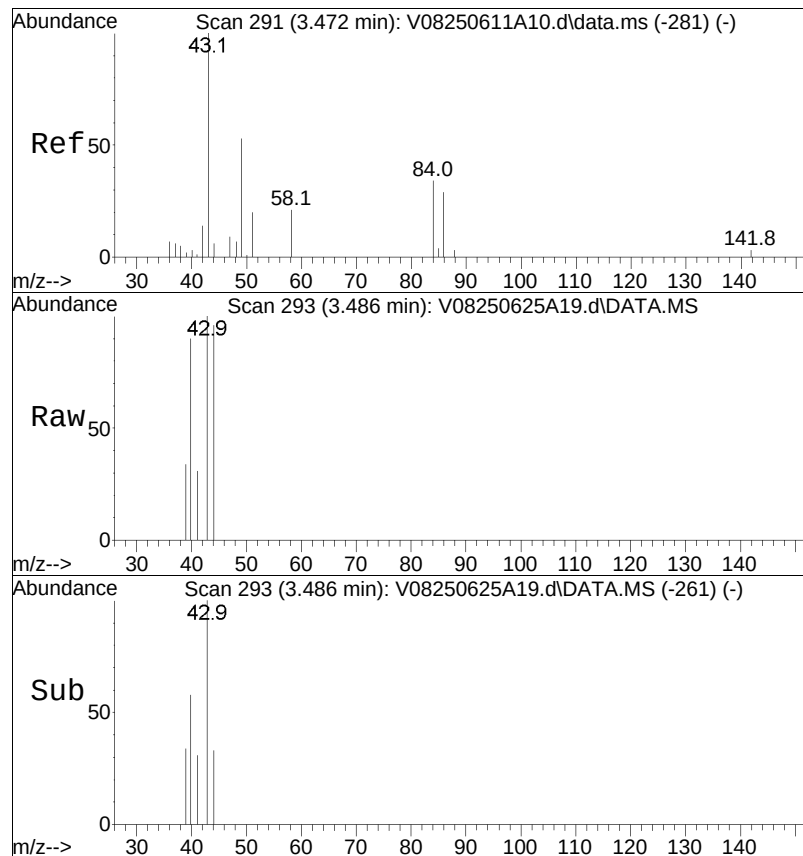




#10
 1,1-Dichloroethene
 Concen: 0.08 ug/L
 RT: 2.894 min Scan# 204
 Delta R.T. 0.000 min
 Lab File: V08250625A19.d
 Acq: 25 Jun 2025 2:05 pm

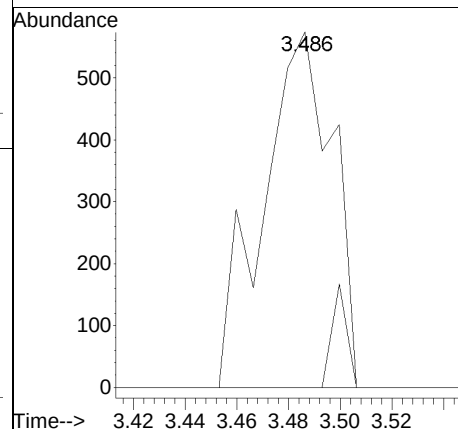
Tgt Ion:	96	Resp:	639
Ion Ratio	Lower	Upper	
96	100		
61	143.8	129.4	194.2
63	64.9	39.0	58.6#

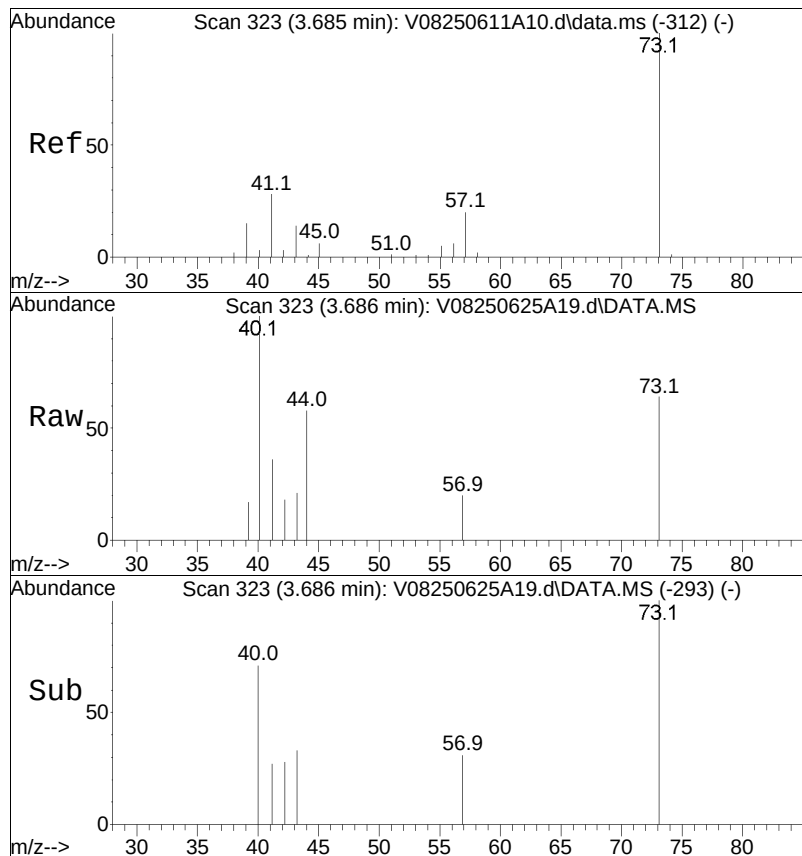




#17
 Acetone
 Concen: 0.86 ug/L
 RT: 3.486 min Scan# 293
 Delta R.T. 0.014 min
 Lab File: V08250625A19.d
 Acq: 25 Jun 2025 2:05 pm

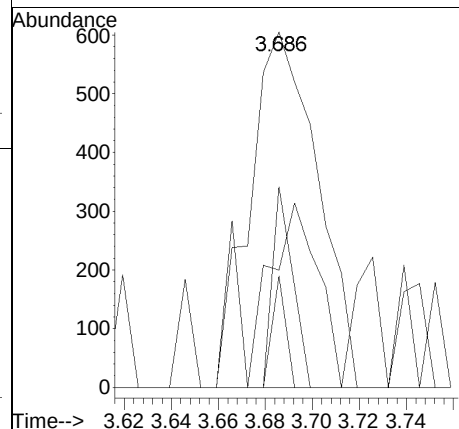
Tgt Ion	Ratio	Lower	Upper
43	100		
58	6.2	21.6	32.4#

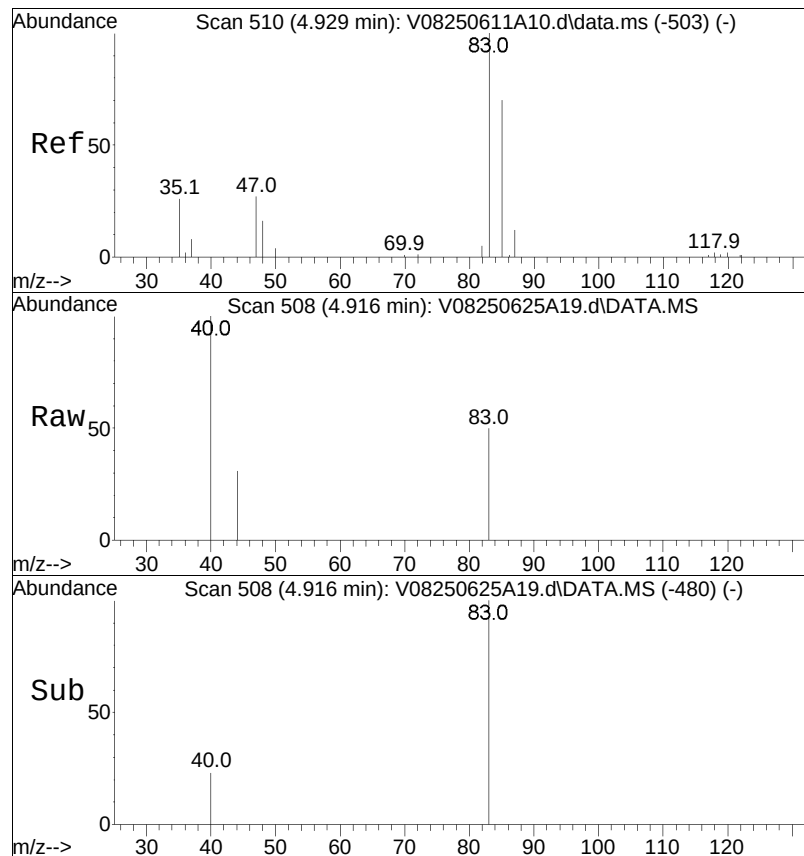




#20
Methyl tert-butyl ether
Concen: 0.08 ug/L
RT: 3.686 min Scan# 323
Delta R.T. 0.001 min
Lab File: V08250625A19.d
Acq: 25 Jun 2025 2:05 pm

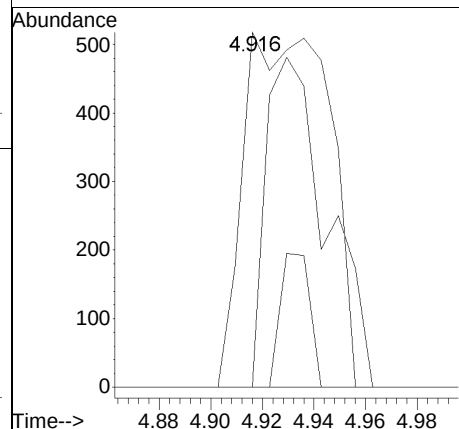
Tgt Ion: 73	Resp: 1220
Ion Ratio	Lower Upper
73 100	
57 6.2	13.6 28.2#
43 36.8	15.7 32.5#
41 16.8	18.0 37.4#

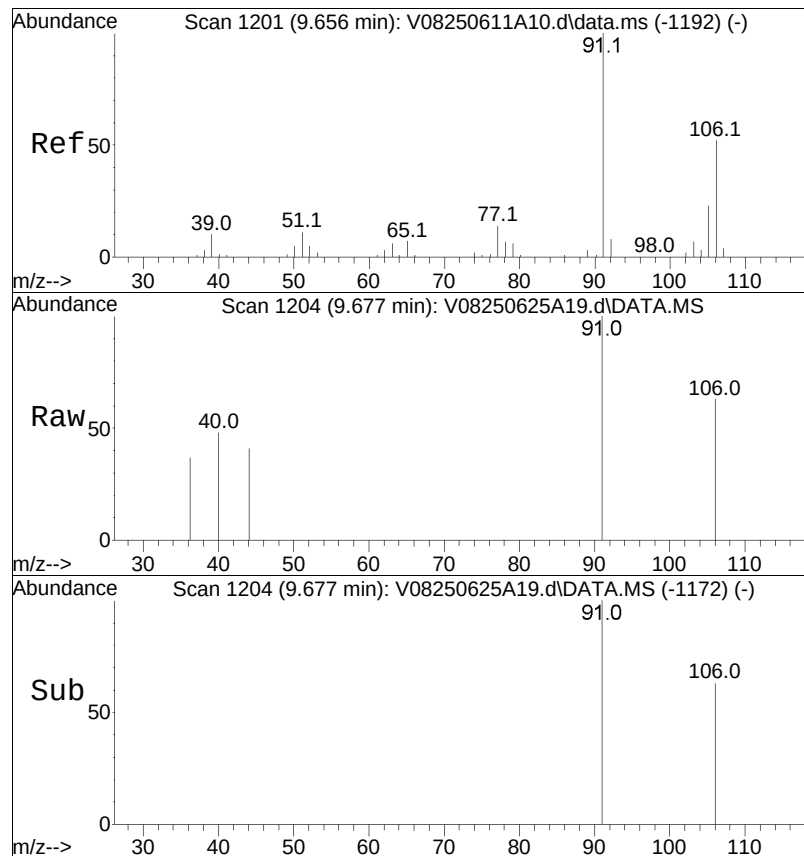




#32
 Chloroform
 Concen: 0.09 ug/L
 RT: 4.916 min Scan# 508
 Delta R.T. -0.013 min
 Lab File: V08250625A19.d
 Acq: 25 Jun 2025 2:05 pm

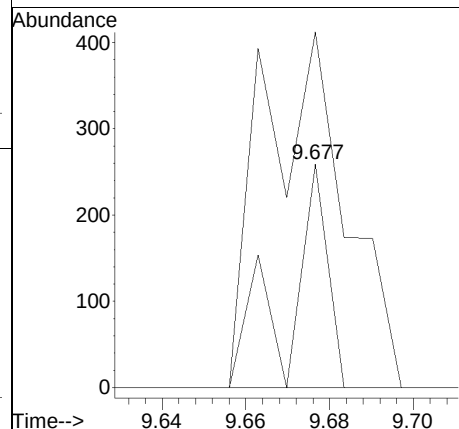
Tgt Ion: 83	Resp: 1191
Ion Ratio	Lower Upper
83 100	
85 66.0	42.1 87.3
47 12.9	17.7 36.7#
48 0.0	9.1 18.9#





#76
 p/m Xylene
 Concen: 0.57 ug/L
 RT: 9.677 min Scan# 1204
 Delta R.T. 0.021 min
 Lab File: V08250625A19.d
 Acq: 25 Jun 2025 2:05 pm

Tgt	Ion	Ratio	Lower	Upper
106	100			
91	331.2	155.4	233.2#	



Manual Integration Report

Data Path	: K:\V0A108\2025\250625A\	QMethod	: V108_250611A_8260.m
Data File	: V08250625A19.d	Operator	: V0A108:AJK
Date Inj'd	: 6/25/2025 2:05 pm	Instrument	: V0A 108
Sample	: L2538382-02,31,10,10,,A	Quant Date	: 6/26/2025 3:42 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250625A\
 Data File : V08250625A20.d
 Acq On : 25 Jun 2025 2:28 pm
 Operator : VOA108:AJK
 Sample : L2538382-03,31,10,10,,A
 Misc : WG2084241,ICAL22356
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 26 15:52:41 2025
 Quant Method : K:\VOA108\2025\250625A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250625A\V08250625A01.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.906	96	245466	10.000	ug/L	0.00
Standard Area 1 = 305323			Recovery =	80.40%		
59) Chlorobenzene-d5	9.416	117	194173	10.000	ug/L	0.00
Standard Area 1 = 230501			Recovery =	84.24%		
79) 1,4-Dichlorobenzene-d4	12.137	152	97099	10.000	ug/L	0.00
Standard Area 1 = 131049			Recovery =	74.09%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.109	113	84413	10.675	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	106.75%		
43) 1,2-Dichloroethane-d4	5.626	65	82062	10.865	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	108.65%		
60) Toluene-d8	7.583	98	231733	9.765	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	97.65%		
83) 4-Bromofluorobenzene	10.916	95	74366	11.234	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	112.34%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.890	50	90	N.D.		
4) Vinyl chloride	2.016	62	61	N.D.		
5) Bromomethane	2.183	94	889	0.162	ug/L #	55
6) Chloroethane	2.282	64	61	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	2.901	96	3394	0.410	ug/L #	90
11) Carbon disulfide	2.927	76	241	N.D.		
12) Freon-113	2.941	101	327	N.D.		
15) Methylene chloride	3.453	84	73	N.D.		
17) Acetone	3.486	43	1754	1.424	ug/L #	71
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.652	43	95	N.D.		
20) Methyl tert-butyl ether	3.692	73	1255	0.084	ug/L #	77
23) 1,1-Dichloroethane	4.151	63	6840	0.607	ug/L	96
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	4.942	83	3856M1	0.305	ug/L	
34) Carbon tetrachloride	0.000		0	N.D.	d	

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250625A\
 Data File : V08250625A20.d
 Acq On : 25 Jun 2025 2:28 pm
 Operator : VOA108:AJK
 Sample : L2538382-03,31,10,10,,A
 Misc : WG2084241,ICAL22356
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 26 15:52:41 2025
 Quant Method : K:\VOA108\2025\250625A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250625A\V08250625A01.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37)	1,1,1-Trichloroethane	5.122	97	6808	0.648	ug/L	91
39)	2-Butanone	0.000		0	N.D.		
41)	Benzene	0.000		0	N.D.		
44)	1,2-Dichloroethane	0.000		0	N.D.		
47)	Methyl cyclohexane	0.000		0	N.D.		
48)	Trichloroethene	6.077	95	815	0.118	ug/L	96
51)	1,2-Dichloropropane	6.618	63	4623M1	0.779	ug/L	
54)	Bromodichloromethane	0.000		0	N.D.		
58)	cis-1,3-Dichloropropene	0.000		0	N.D.		
61)	Toluene	7.651	92	63	N.D.		
62)	4-Methyl-2-pentanone	0.000		0	N.D.		
63)	Tetrachloroethene	8.089	166	6037	0.866	ug/L	95
65)	trans-1,3-Dichloropropene	0.000		0	N.D.		
68)	1,1,2-Trichloroethane	0.000		0	N.D.		
69)	Chlorodibromomethane	0.000		0	N.D.		
71)	1,2-Dibromoethane	0.000		0	N.D.		
72)	2-Hexanone	0.000		0	N.D.		
73)	Chlorobenzene	0.000		0	N.D.		
74)	Ethylbenzene	9.403	91	250	N.D.		
76)	p/m Xylene	0.000		0	N.D.		
77)	o Xylene	0.000		0	N.D.		
78)	Styrene	0.000		0	N.D.		
80)	Bromoform	0.000		0	N.D.		
82)	Isopropylbenzene	0.000		0	N.D.		
87)	1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
100)	1,3-Dichlorobenzene	12.130	146	76	N.D.		
101)	1,4-Dichlorobenzene	12.158	146	81	N.D.		
104)	1,2-Dichlorobenzene	0.000		0	N.D.		
106)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
109)	1,2,4-Trichlorobenzene	0.000		0	N.D.		
111)	1,2,3-Trichlorobenzene	0.000		0	N.D.		

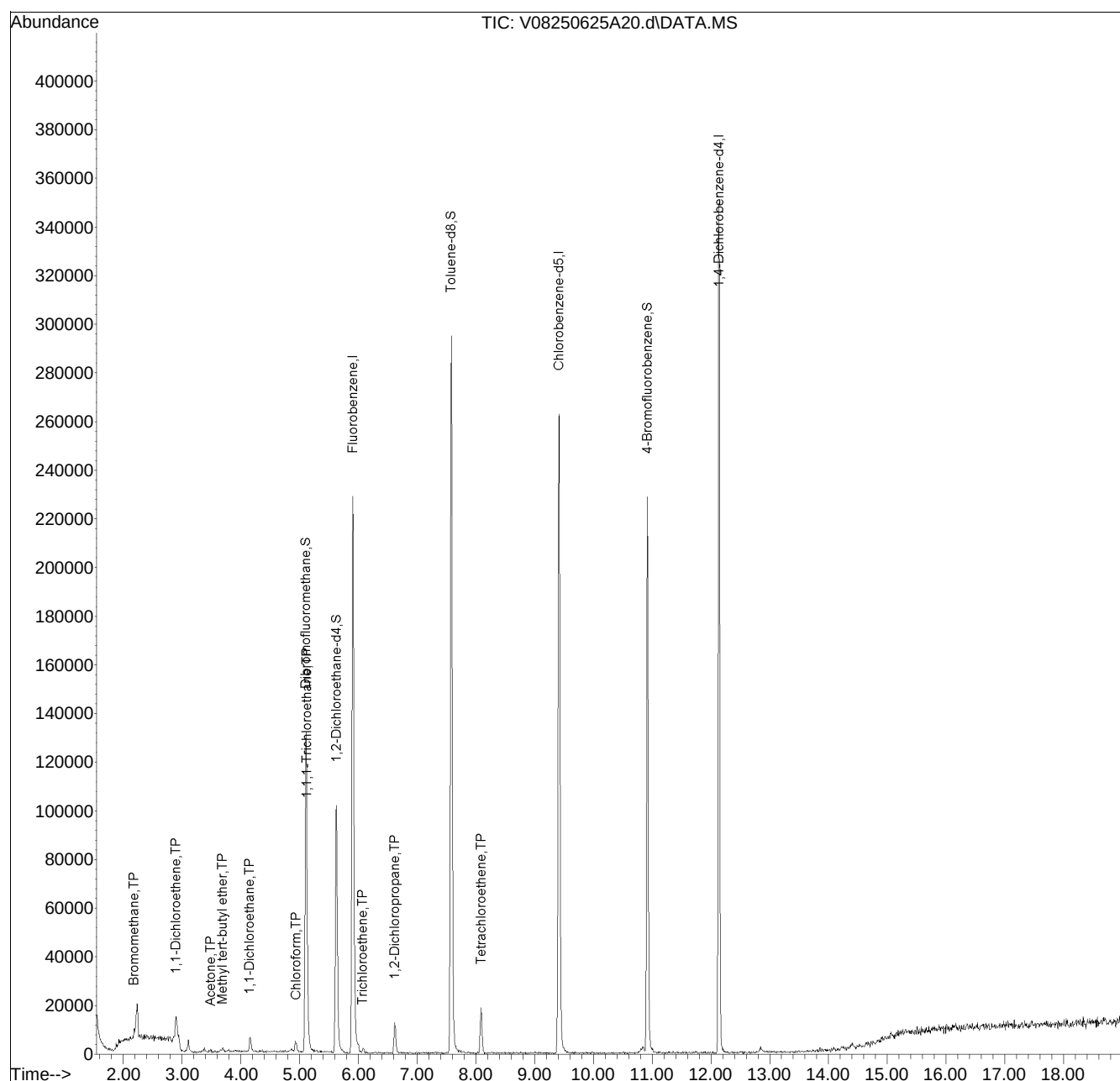
(#) = qualifier out of range (m) = manual integration (+) = signals summed

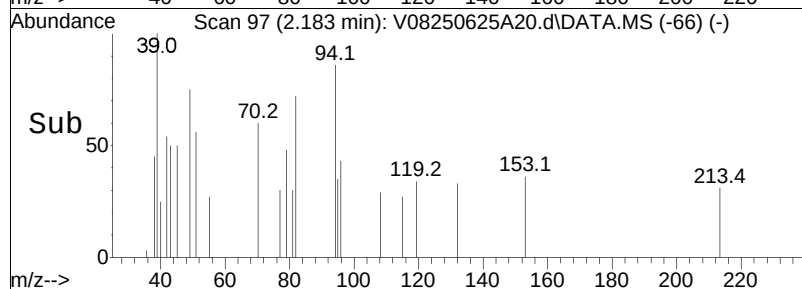
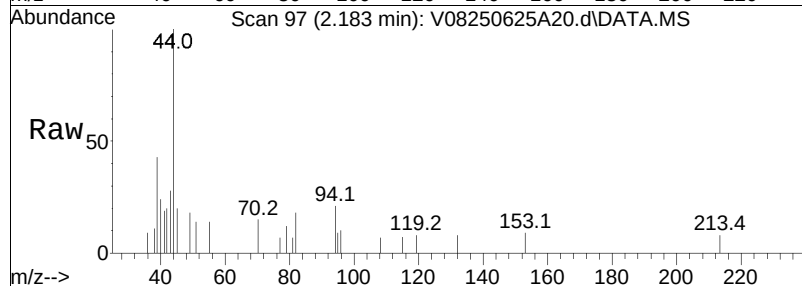
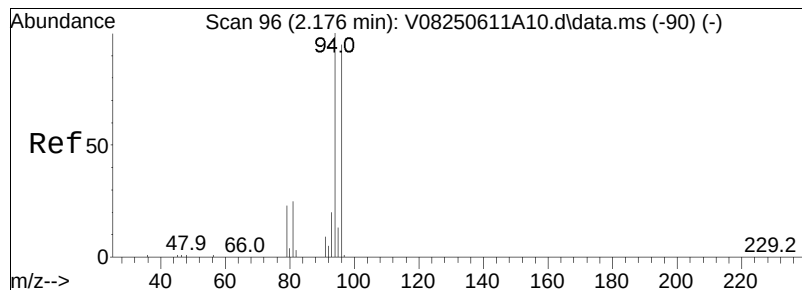
Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250625A\
 Data File : V08250625A20.d
 Acq On : 25 Jun 2025 2:28 pm
 Operator : VOA108:AJK
 Sample : L2538382-03,31,10,10,,A
 Misc : WG2084241,ICAL22356
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 26 15:52:41 2025
 Quant Method : K:\VOA108\2025\250625A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

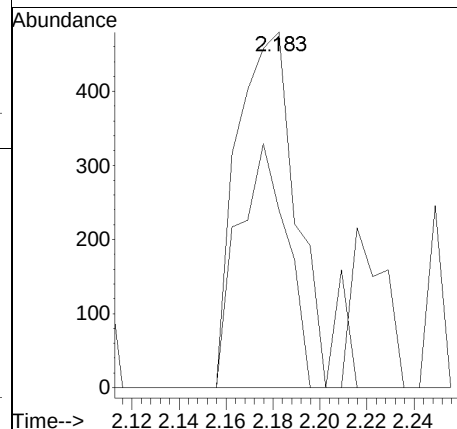
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

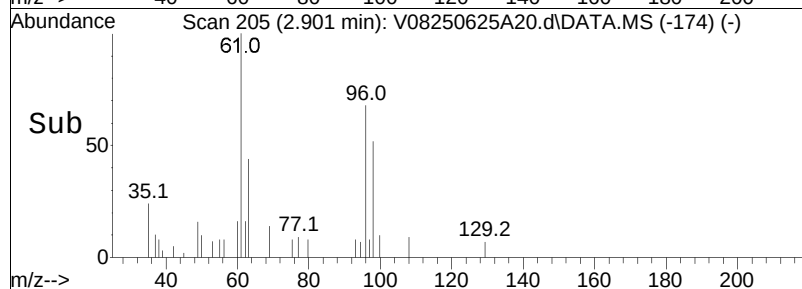
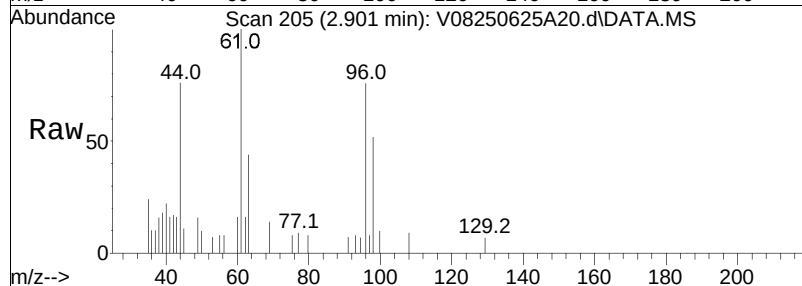
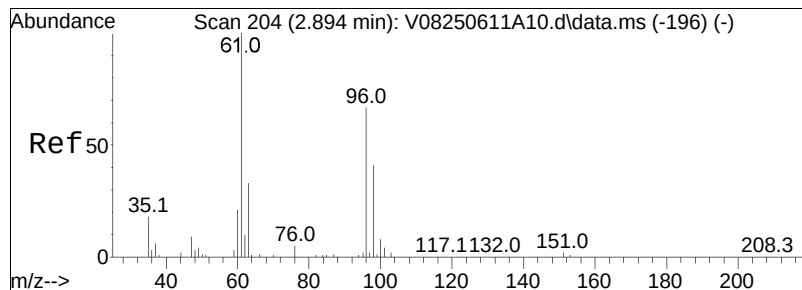




#5
 Bromomethane
 Concen: 0.16 ug/L
 RT: 2.183 min Scan# 97
 Delta R.T. 0.006 min
 Lab File: V08250625A20.d
 Acq: 25 Jun 2025 2:28 pm

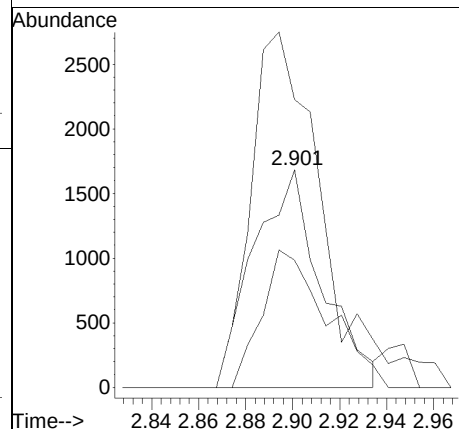
Tgt Ion	Ratio	Lower	Upper
94	100		
96	53.2	77.7	117.7#

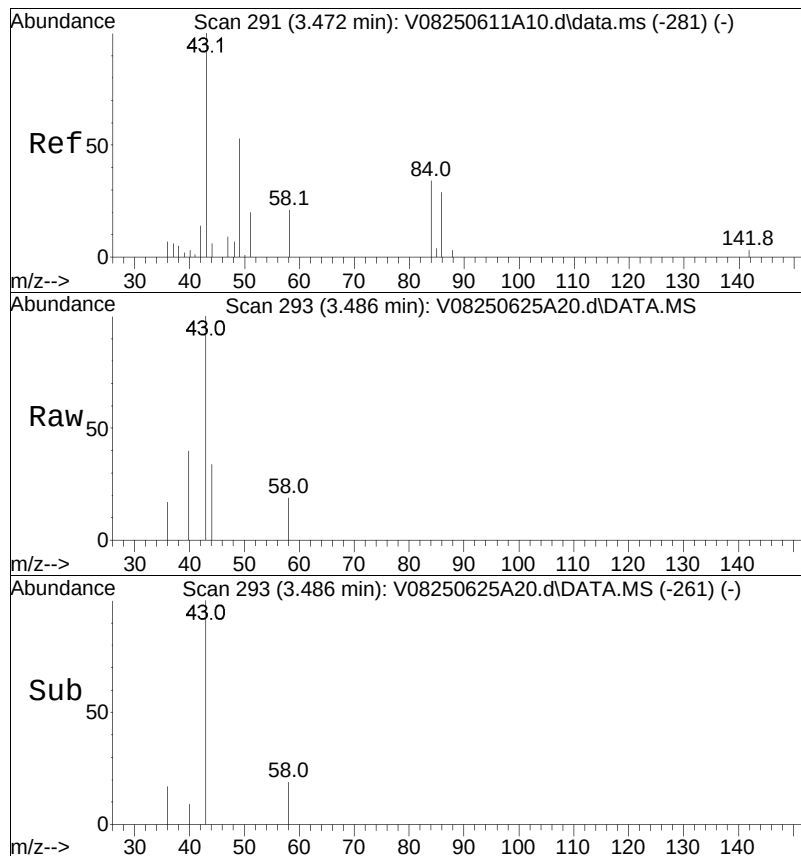




#10
 1,1-Dichloroethene
 Concen: 0.41 ug/L
 RT: 2.901 min Scan# 205
 Delta R.T. 0.007 min
 Lab File: V08250625A20.d
 Acq: 25 Jun 2025 2:28 pm

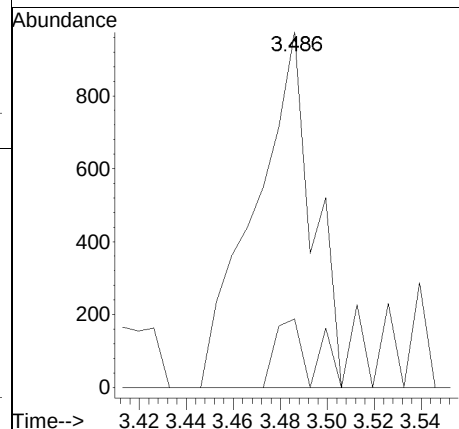
Tgt Ion	Ratio	Lower	Upper
96	100		
61	172.7	129.4	194.2
63	60.9	39.0	58.6#

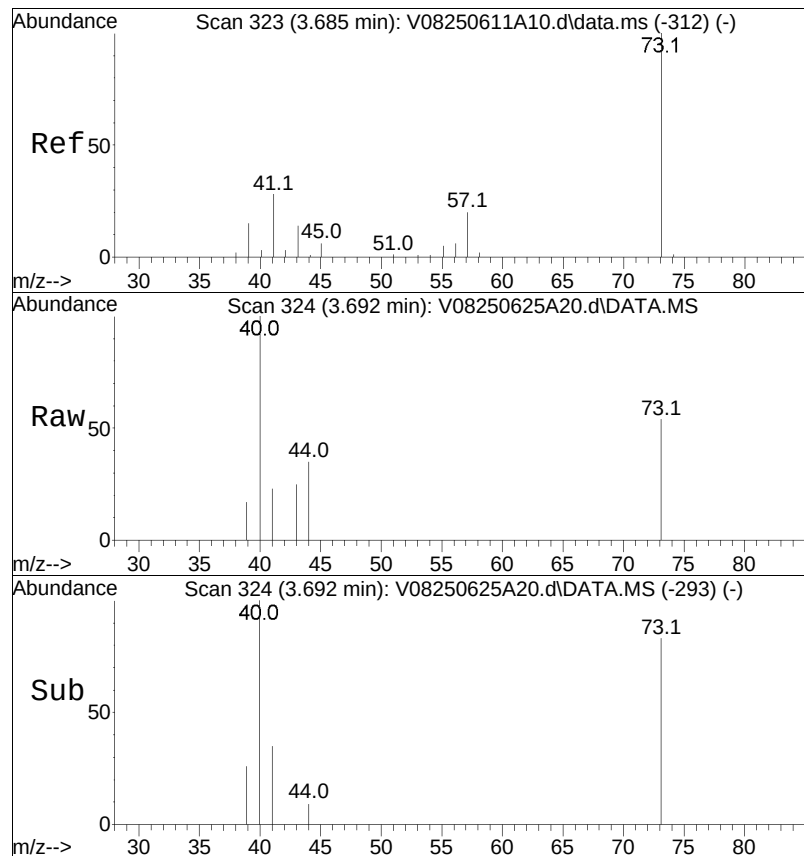




#17
 Acetone
 Concen: 1.42 ug/L
 RT: 3.486 min Scan# 293
 Delta R.T. 0.014 min
 Lab File: V08250625A20.d
 Acq: 25 Jun 2025 2:28 pm

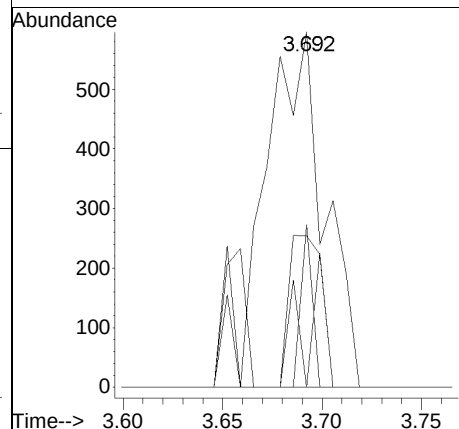
Tgt Ion:	43	58	Ratio	100	11.8	Resp:	1754	Lower	Upper
								21.6	32.4#

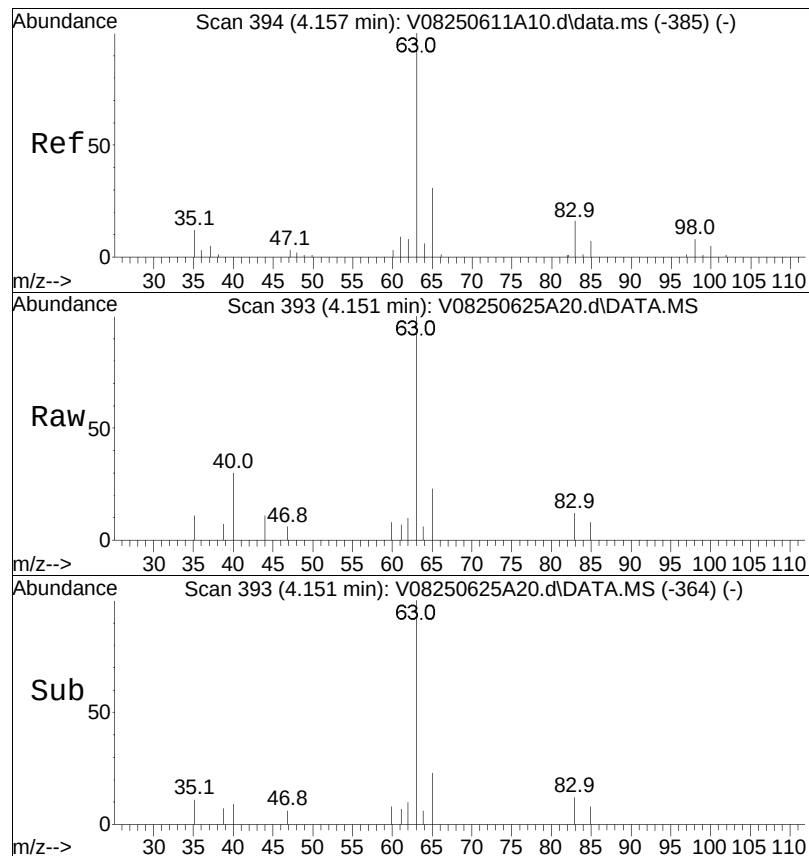




#20
Methyl tert-butyl ether
Concen: 0.08 ug/L
RT: 3.692 min Scan# 324
Delta R.T. 0.007 min
Lab File: V08250625A20.d
Acq: 25 Jun 2025 2:28 pm

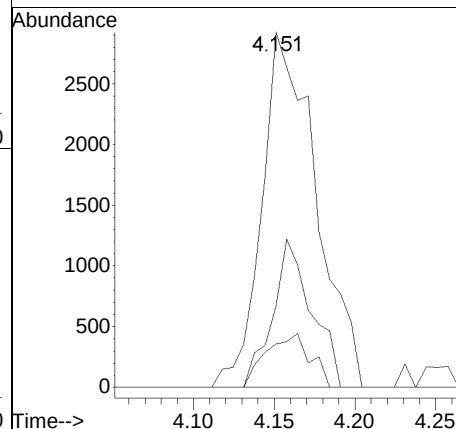
Tgt Ion: 73	Resp: 1255
Ion Ratio	Lower Upper
73 100	
57 5.7	13.6 28.2#
43 8.7	15.7 32.5#
41 23.3	18.0 37.4

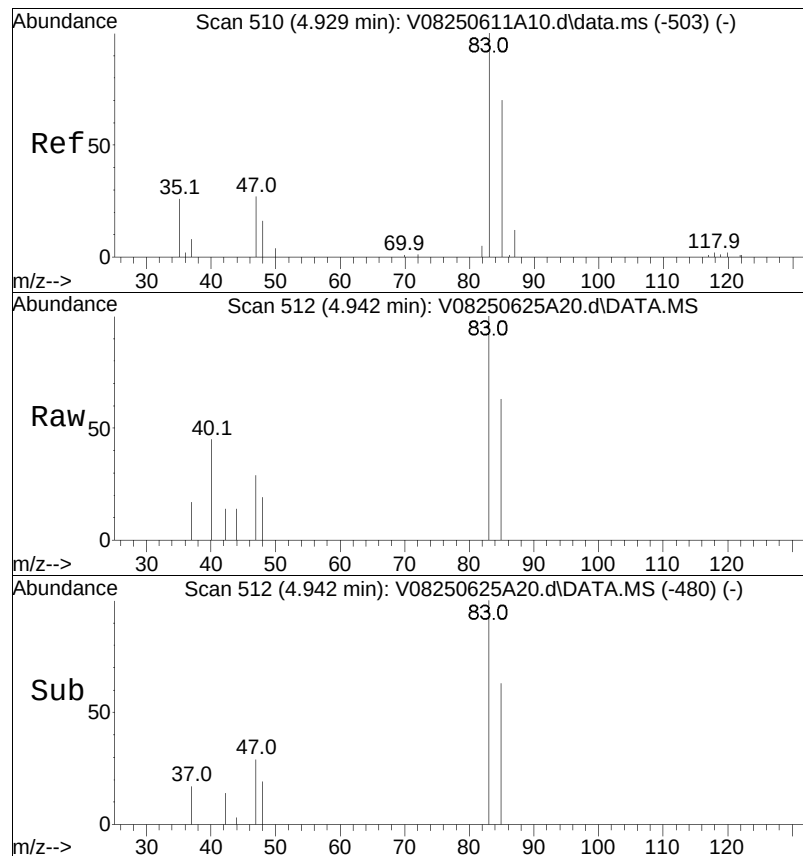




#23
 1,1-Dichloroethane
 Concen: 0.61 ug/L
 RT: 4.151 min Scan# 393
 Delta R.T. -0.006 min
 Lab File: V08250625A20.d
 Acq: 25 Jun 2025 2:28 pm

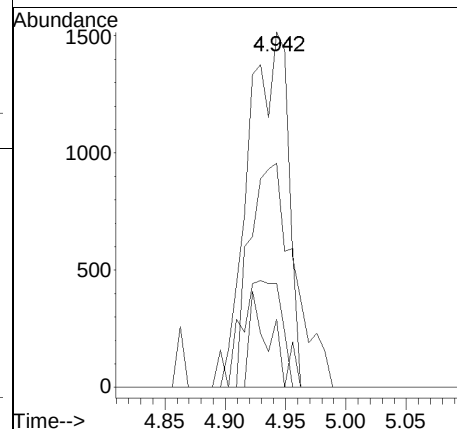
Tgt Ion:	63	Resp:	6840
Ion Ratio	Lower	Upper	
63	100		
65	30.0	12.4	52.4
83	12.3	0.0	33.8

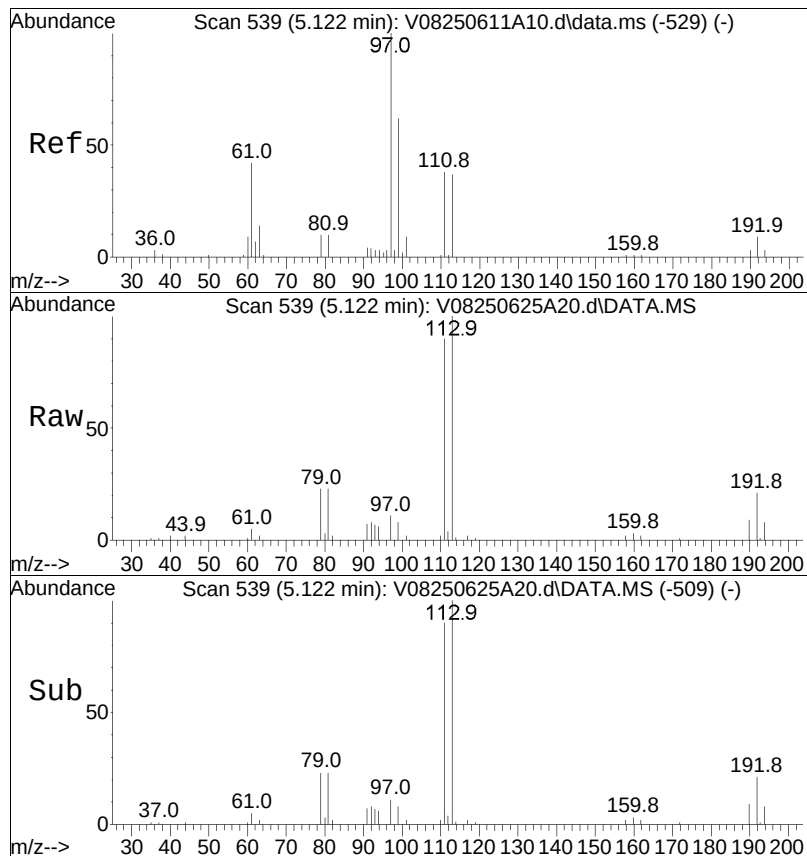




#32
 Chloroform
 Concen: 0.31 ug/L M1
 RT: 4.942 min Scan# 512
 Delta R.T. 0.013 min
 Lab File: V08250625A20.d
 Acq: 25 Jun 2025 2:28 pm

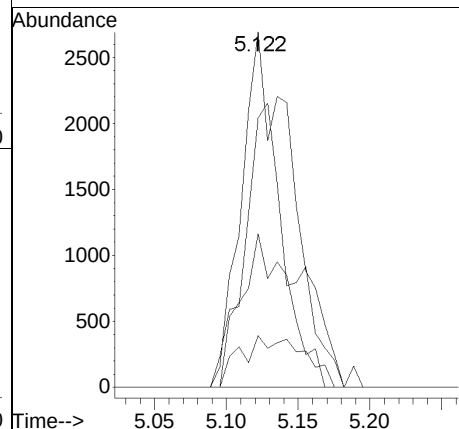
Tgt	Ion: 83	Resp:	3856
Ion	Ratio	Lower	Upper
83	100		
85	53.8	42.1	87.3
47	28.0	17.7	36.7
48	13.2	9.1	18.9

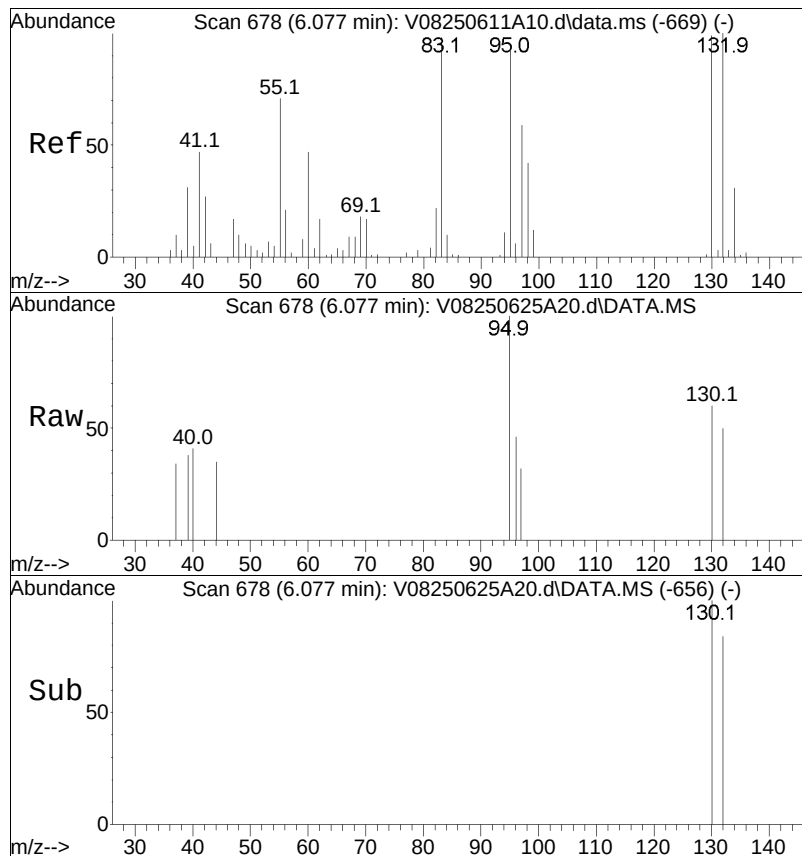




#37
 1,1,1-Trichloroethane
 Concen: 0.65 ug/L
 RT: 5.122 min Scan# 539
 Delta R.T. 0.000 min
 Lab File: V08250625A20.d
 Acq: 25 Jun 2025 2:28 pm

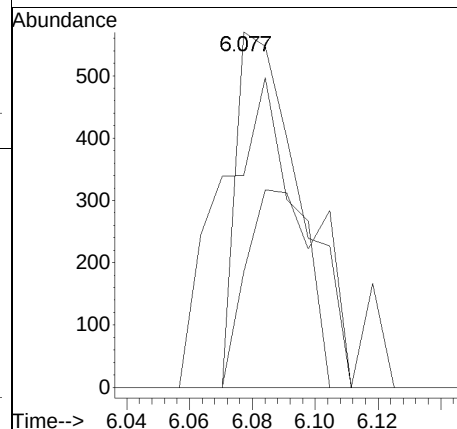
Tgt Ion:	97	Resp:	6808
Ion	Ratio	Lower	Upper
97	100		
99	69.7	40.2	83.4
61	39.6	28.6	59.4
63	17.5	9.2	19.2

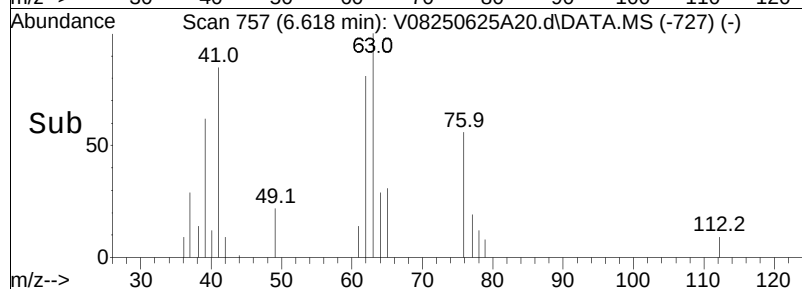
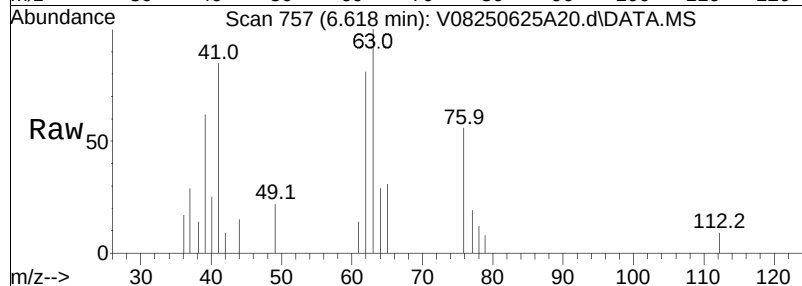
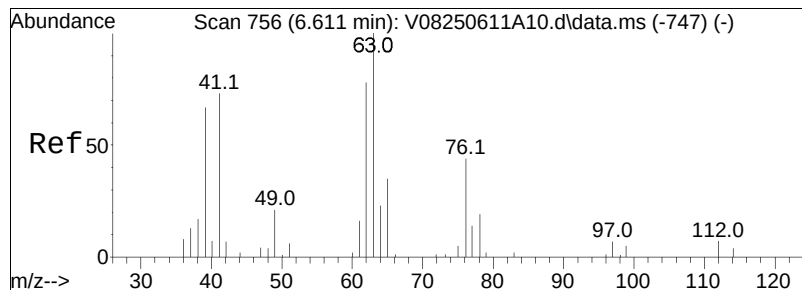




#48
 Trichloroethene
 Concen: 0.12 ug/L
 RT: 6.077 min Scan# 678
 Delta R.T. 0.000 min
 Lab File: V08250625A20.d
 Acq: 25 Jun 2025 2:28 pm

Tgt Ion	Ratio	Lower	Upper
95	100		
97	66.5	54.7	82.1
130	100.2	84.7	127.1





#51

1,2-Dichloropropane

Concen: 0.78 ug/L M1

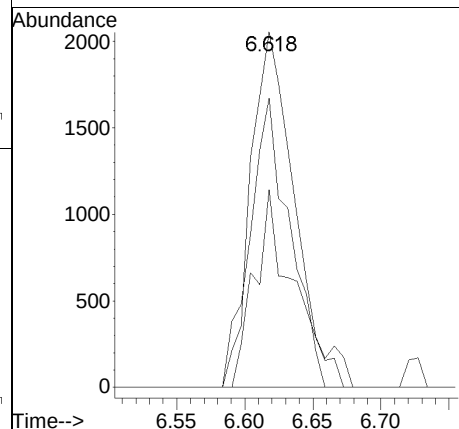
RT: 6.618 min Scan# 757

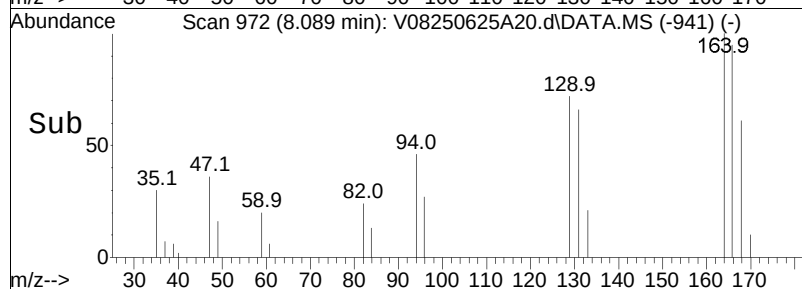
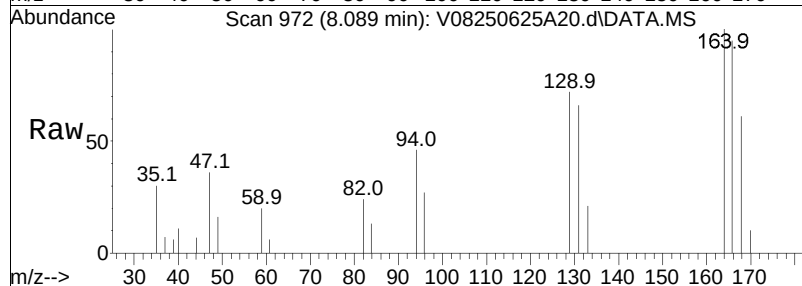
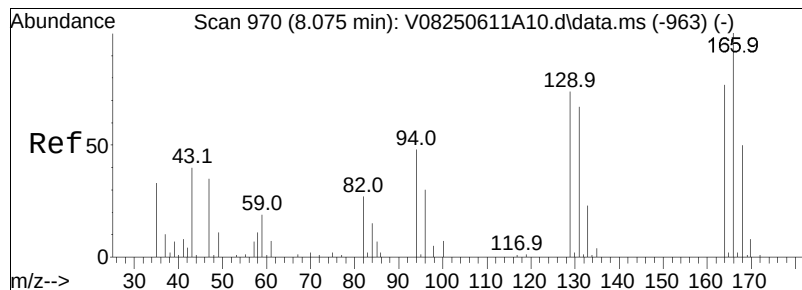
Delta R.T. 0.007 min

Lab File: V08250625A20.d

Acq: 25 Jun 2025 2:28 pm

Tgt Ion:	63	Resp:	4623
Ion Ratio	Lower	Upper	
63	100		
62	0.0	58.2	87.4#
76	0.0	35.9	53.9#





#63

Tetrachloroethene

Concen: 0.87 ug/L

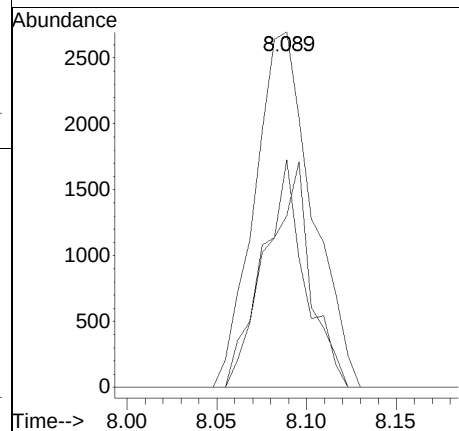
RT: 8.089 min Scan# 972

Delta R.T. 0.014 min

Lab File: V08250625A20.d

Acq: 25 Jun 2025 2:28 pm

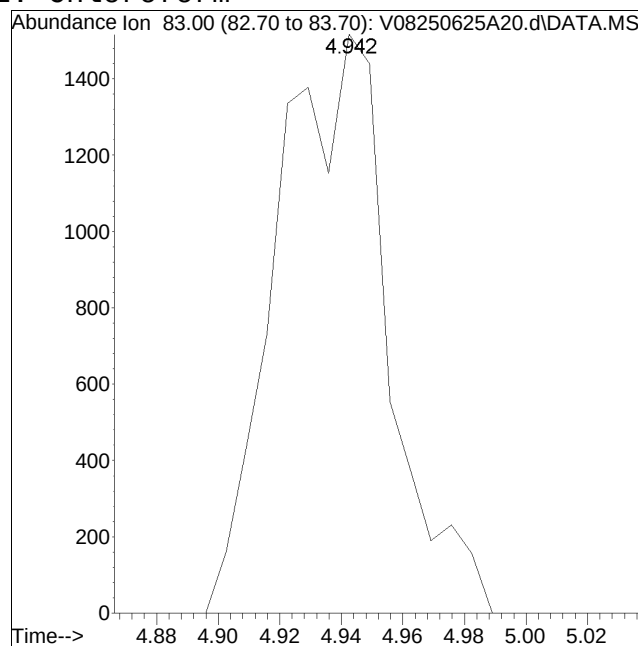
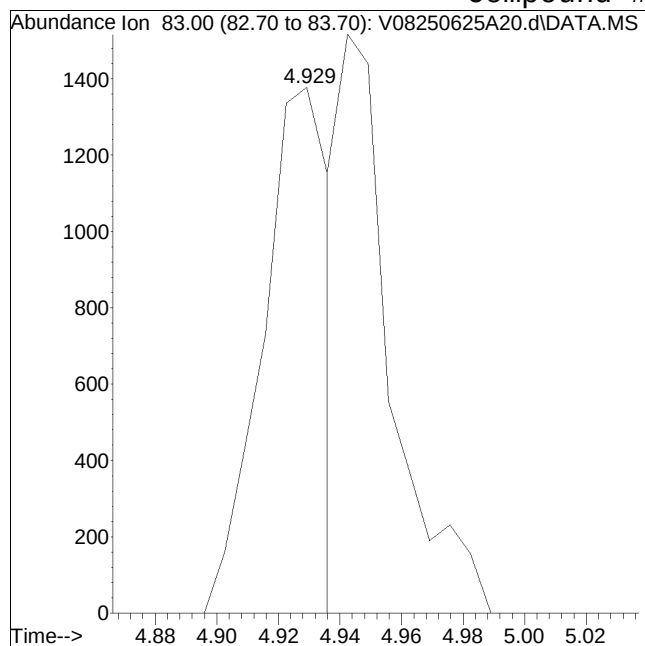
Tgt Ion:	166	Resp:	6037
Ion Ratio	Lower	Upper	
166	100		
168	46.3	26.2	66.2
94	50.3	23.6	63.6



Manual Integration Report

Data Path : K:\V0A108\2025\250625A\ QMethod : V108_250611A_8260.m
Data File : V08250625A20.d Operator : V0A108:AJK
Date Inj'd : 6/25/2025 2:28 pm Instrument : V0A 108
Sample : L2538382-03,31,10,10,,A Quant Date : 6/26/2025 3:42 pm

Compound #32: Chloroform



Original Peak Response = 2075

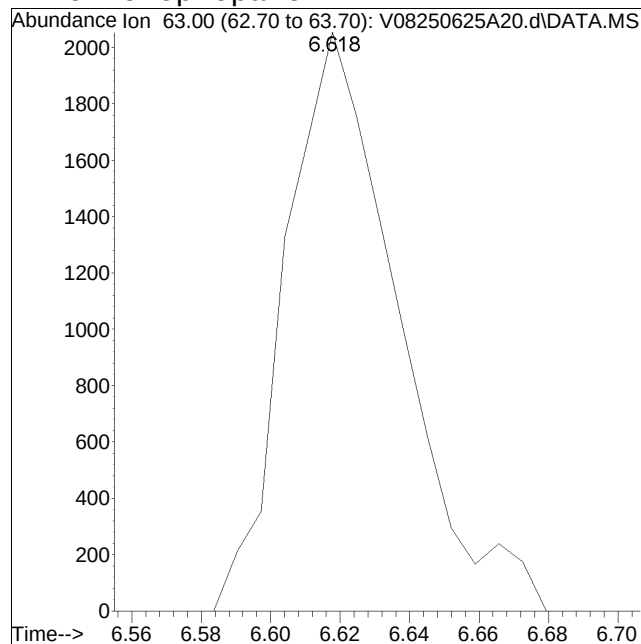
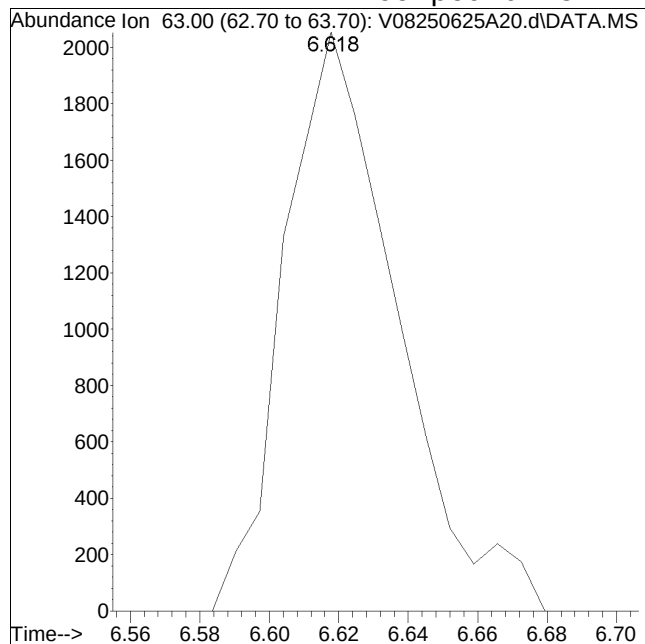
Manual Peak Response = 3856 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : K:\V0A108\2025\250625A\ QMethod : V108_250611A_8260.m
Data File : V08250625A20.d Operator : V0A108:AJK
Date Inj'd : 6/25/2025 2:28 pm Instrument : V0A 108
Sample : L2538382-03,31,10,10,,A Quant Date : 6/26/2025 3:42 pm

Compound #51: 1,2-Dichloropropane



Original Peak Response = 4624

Manual Peak Response = 4623 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250625A\
 Data File : V08250625A21.d
 Acq On : 25 Jun 2025 2:50 pm
 Operator : VOA108:AJK
 Sample : L2538382-04,31,10,10,,A
 Misc : WG2084241,ICAL22356
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 26 15:52:50 2025
 Quant Method : K:\VOA108\2025\250625A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250625A\V08250625A01.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.906	96	247217	10.000	ug/L	0.00
Standard Area 1 = 305323			Recovery =	80.97%		
59) Chlorobenzene-d5	9.416	117	189687	10.000	ug/L	0.00
Standard Area 1 = 230501			Recovery =	82.29%		
79) 1,4-Dichlorobenzene-d4	12.137	152	104852	10.000	ug/L	0.00
Standard Area 1 = 131049			Recovery =	80.01%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.109	113	84344	10.591	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	105.91%		
43) 1,2-Dichloroethane-d4	5.625	65	81567	10.723	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	107.23%		
60) Toluene-d8	7.582	98	232911	10.047	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.47%		
83) 4-Bromofluorobenzene	10.916	95	76003	10.632	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	106.32%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.843	50	73	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.176	94	446	0.081	ug/L	92
6) Chloroethane	2.222	64	144	N.D.		
7) Trichlorofluoromethane	2.522	101	83	N.D.		
10) 1,1-Dichloroethene	2.887	96	71	N.D.		
11) Carbon disulfide	2.934	76	497	N.D.		
12) Freon-113	2.861	101	63	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	3.486	43	2800	2.258	ug/L	98
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	0.000		0	N.D.	d	
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	4.896	56	80	N.D.		
32) Chloroform	0.000		0	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250625A\
 Data File : V08250625A21.d
 Acq On : 25 Jun 2025 2:50 pm
 Operator : VOA108:AJK
 Sample : L2538382-04,31,10,10,,A
 Misc : WG2084241,ICAL22356
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 26 15:52:50 2025
 Quant Method : K:\VOA108\2025\250625A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250625A\V08250625A01.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37)	1,1,1-Trichloroethane	0.000		0		N.D.	
39)	2-Butanone	5.255	43	70		N.D.	
41)	Benzene	0.000		0		N.D.	
44)	1,2-Dichloroethane	0.000		0		N.D.	
47)	Methyl cyclohexane	0.000		0		N.D.	
48)	Trichloroethene	5.981	95	299		N.D.	
51)	1,2-Dichloropropane	0.000		0		N.D.	
54)	Bromodichloromethane	0.000		0		N.D.	
58)	cis-1,3-Dichloropropene	0.000		0		N.D.	
61)	Toluene	0.000		0		N.D.	
62)	4-Methyl-2-pentanone	0.000		0		N.D.	
63)	Tetrachloroethene	0.000		0		N.D.	
65)	trans-1,3-Dichloropropene	0.000		0		N.D.	
68)	1,1,2-Trichloroethane	0.000		0		N.D.	
69)	Chlorodibromomethane	0.000		0		N.D.	
71)	1,2-Dibromoethane	0.000		0		N.D.	
72)	2-Hexanone	0.000		0		N.D.	
73)	Chlorobenzene	0.000		0		N.D.	
74)	Ethylbenzene	9.416	91	87		N.D.	
76)	p/m Xylene	0.000		0		N.D.	
77)	o Xylene	0.000		0		N.D.	
78)	Styrene	0.000		0		N.D.	
80)	Bromoform	0.000		0		N.D.	
82)	Isopropylbenzene	0.000		0		N.D.	
87)	1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
100)	1,3-Dichlorobenzene	12.157	146	86		N.D.	
101)	1,4-Dichlorobenzene	12.157	146	86		N.D.	
104)	1,2-Dichlorobenzene	0.000		0		N.D.	
106)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
109)	1,2,4-Trichlorobenzene	0.000		0		N.D.	
111)	1,2,3-Trichlorobenzene	0.000		0		N.D.	

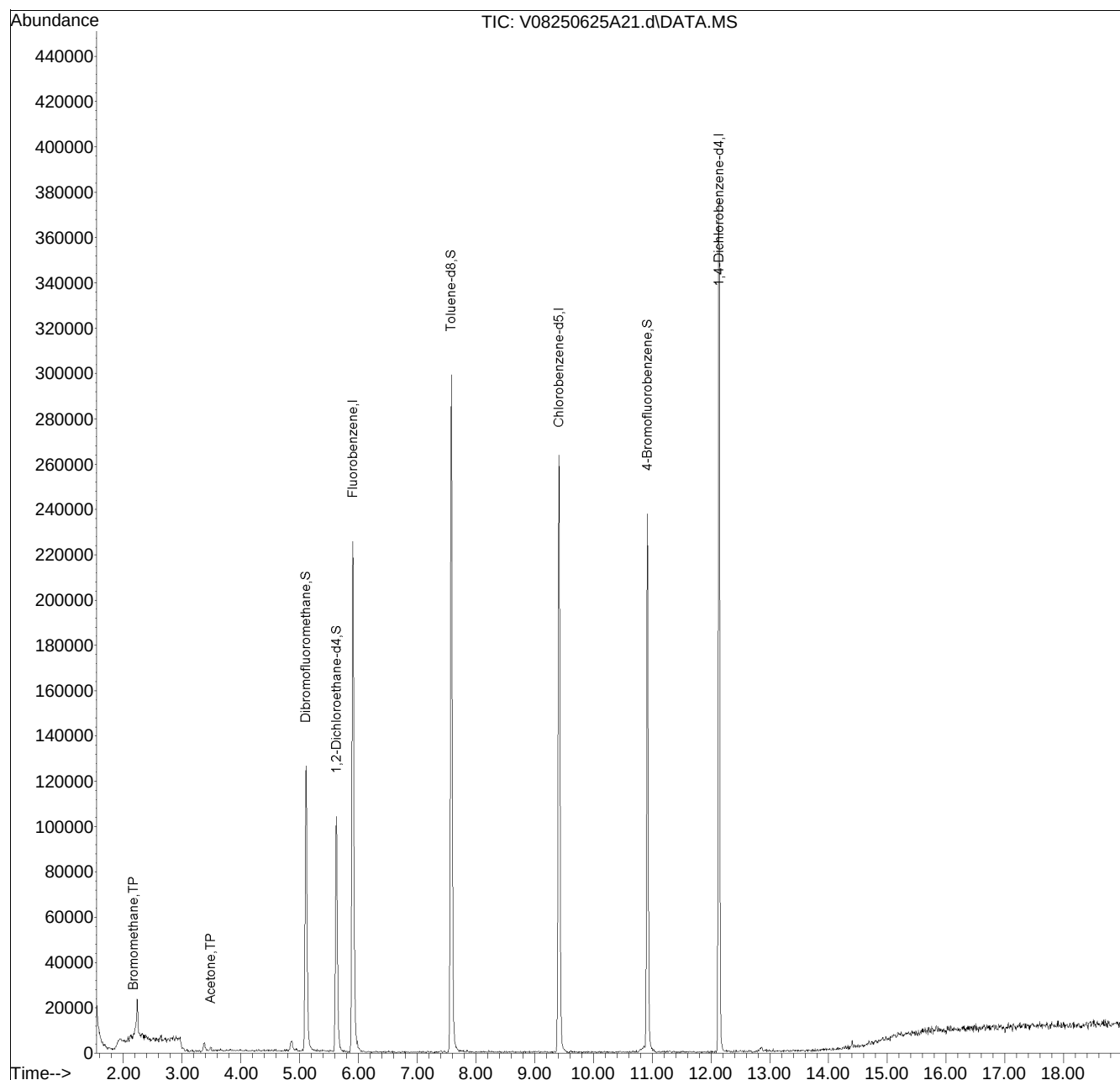
(#) = qualifier out of range (m) = manual integration (+) = signals summed

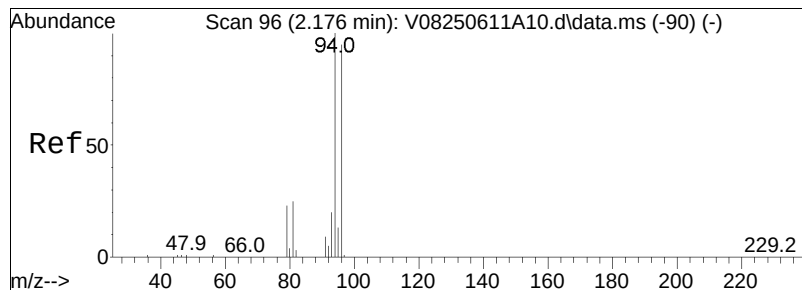
Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250625A\
 Data File : V08250625A21.d
 Acq On : 25 Jun 2025 2:50 pm
 Operator : VOA108:AJK
 Sample : L2538382-04,31,10,10,,A
 Misc : WG2084241,ICAL22356
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 26 15:52:50 2025
 Quant Method : K:\VOA108\2025\250625A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

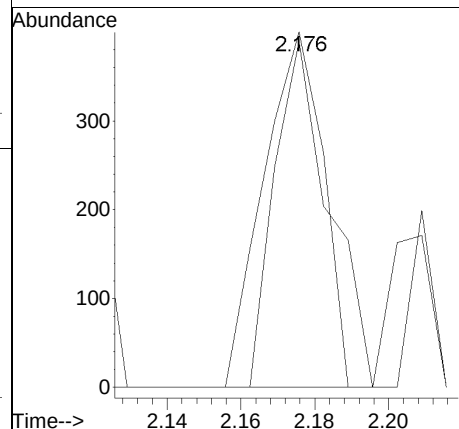
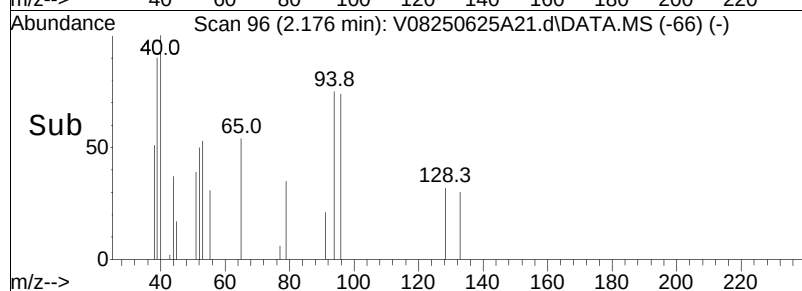
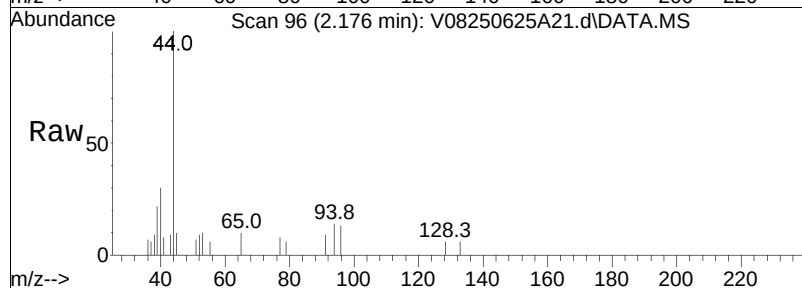
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

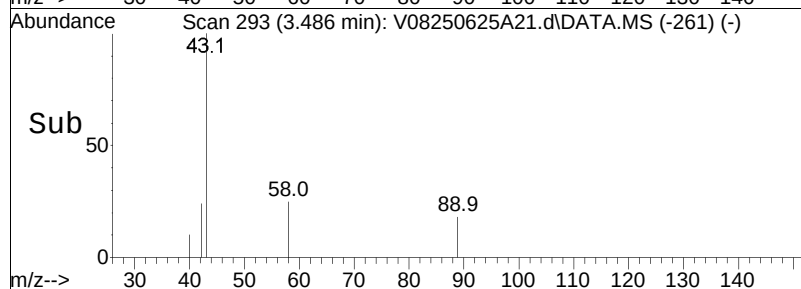
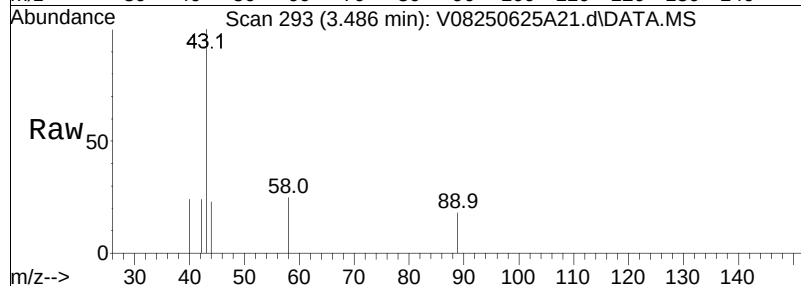
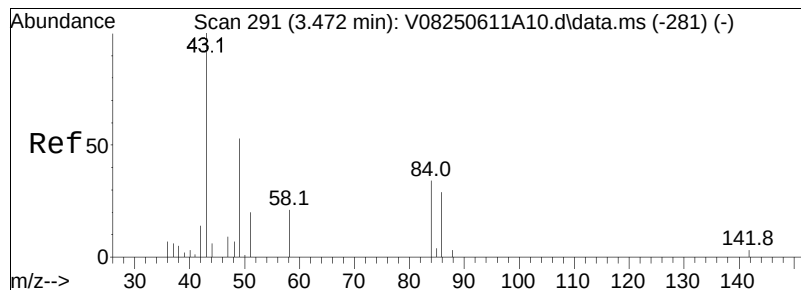




#5
 Bromomethane
 Concen: 0.08 ug/L
 RT: 2.176 min Scan# 96
 Delta R.T. -0.000 min
 Lab File: V08250625A21.d
 Acq: 25 Jun 2025 2:50 pm

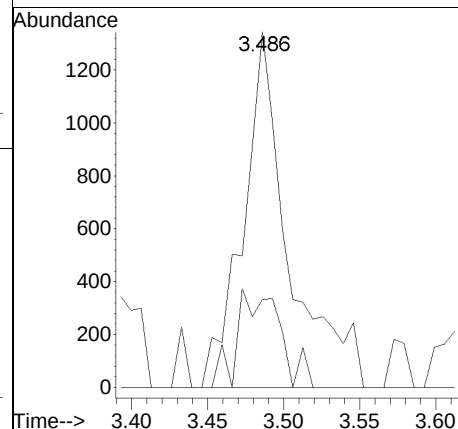
Tgt Ion	Ratio	Lower	Upper
94	100		
96	90.1	77.7	117.7





#17
Acetone
Concen: 2.26 ug/L
RT: 3.486 min Scan# 293
Delta R.T. 0.014 min
Lab File: V08250625A21.d
Acq: 25 Jun 2025 2:50 pm

Tgt Ion:	43	58	Ratio	Lower	Upper
Resp:	2800				
Ion Ratio	100	26.1			
			21.6	32.4	



Manual Integration Report

Data Path	: K:\V0A108\2025\250625A\	QMethod	: V108_250611A_8260.m
Data File	: V08250625A21.d	Operator	: V0A108:AJK
Date Inj'd	: 6/25/2025 2:50 pm	Instrument	: V0A 108
Sample	: L2538382-04,31,10,10,,A	Quant Date	: 6/26/2025 3:42 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250625A\
 Data File : V08250625A22.d
 Acq On : 25 Jun 2025 3:13 pm
 Operator : VOA108:AJK
 Sample : L2538382-08,31,10,10,,A
 Misc : WG2084241,ICAL22356
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 26 15:53:10 2025
 Quant Method : K:\VOA108\2025\250625A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250625A\V08250625A01.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.906	96	237790	10.000	ug/L	0.00
Standard Area 1 = 305323			Recovery	=	77.88%	
59) Chlorobenzene-d5	9.410	117	172974	10.000	ug/L	0.00
Standard Area 1 = 230501			Recovery	=	75.04%	
79) 1,4-Dichlorobenzene-d4	12.137	152	87661	10.000	ug/L	0.00
Standard Area 1 = 131049			Recovery	=	66.89%	
System Monitoring Compounds						
36) Dibromofluoromethane	5.109	113	81586	10.651	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	106.51%	
43) 1,2-Dichloroethane-d4	5.619	65	77814	10.635	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	106.35%	
60) Toluene-d8	7.583	98	219100	10.364	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	103.64%	
83) 4-Bromofluorobenzene	10.916	95	65804	11.011	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	110.11%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.837	50	60	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.176	94	700	0.131	ug/L	92
6) Chloroethane	2.229	64	209	N.D.		
7) Trichlorofluoromethane	2.362	101	168	N.D.		
10) 1,1-Dichloroethene	2.947	96	79	N.D.		
11) Carbon disulfide	2.921	76	184	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	3.499	43	1091	0.915	ug/L #	59
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.593	43	68	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250625A\
 Data File : V08250625A22.d
 Acq On : 25 Jun 2025 3:13 pm
 Operator : VOA108:AJK
 Sample : L2538382-08,31,10,10,,A
 Misc : WG2084241,ICAL22356
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 26 15:53:10 2025
 Quant Method : K:\VOA108\2025\250625A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250625A\V08250625A01.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37)	1,1,1-Trichloroethane	0.000		0		N.D.	
39)	2-Butanone	5.342	43	85		N.D.	
41)	Benzene	0.000		0		N.D.	
44)	1,2-Dichloroethane	0.000		0		N.D.	
47)	Methyl cyclohexane	0.000		0		N.D.	
48)	Trichloroethene	6.023	95	206		N.D.	
51)	1,2-Dichloropropane	6.474	63	67		N.D.	
54)	Bromodichloromethane	0.000		0		N.D.	
58)	cis-1,3-Dichloropropene	0.000		0		N.D.	
61)	Toluene	0.000		0		N.D.	
62)	4-Methyl-2-pentanone	0.000		0		N.D.	
63)	Tetrachloroethene	0.000		0		N.D.	
65)	trans-1,3-Dichloropropene	0.000		0		N.D.	
68)	1,1,2-Trichloroethane	0.000		0		N.D.	
69)	Chlorodibromomethane	0.000		0		N.D.	
71)	1,2-Dibromoethane	0.000		0		N.D.	
72)	2-Hexanone	8.917	43	81		N.D.	
73)	Chlorobenzene	0.000		0		N.D.	
74)	Ethylbenzene	9.403	91	187		N.D.	
76)	p/m Xylene	0.000		0		N.D.	
77)	o Xylene	0.000		0		N.D.	
78)	Styrene	0.000		0		N.D.	
80)	Bromoform	0.000		0		N.D.	
82)	Isopropylbenzene	0.000		0		N.D.	
87)	1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
100)	1,3-Dichlorobenzene	12.158	146	76		N.D.	
101)	1,4-Dichlorobenzene	12.158	146	76		N.D.	
104)	1,2-Dichlorobenzene	0.000		0		N.D.	
106)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
109)	1,2,4-Trichlorobenzene	0.000		0		N.D.	
111)	1,2,3-Trichlorobenzene	0.000		0		N.D.	

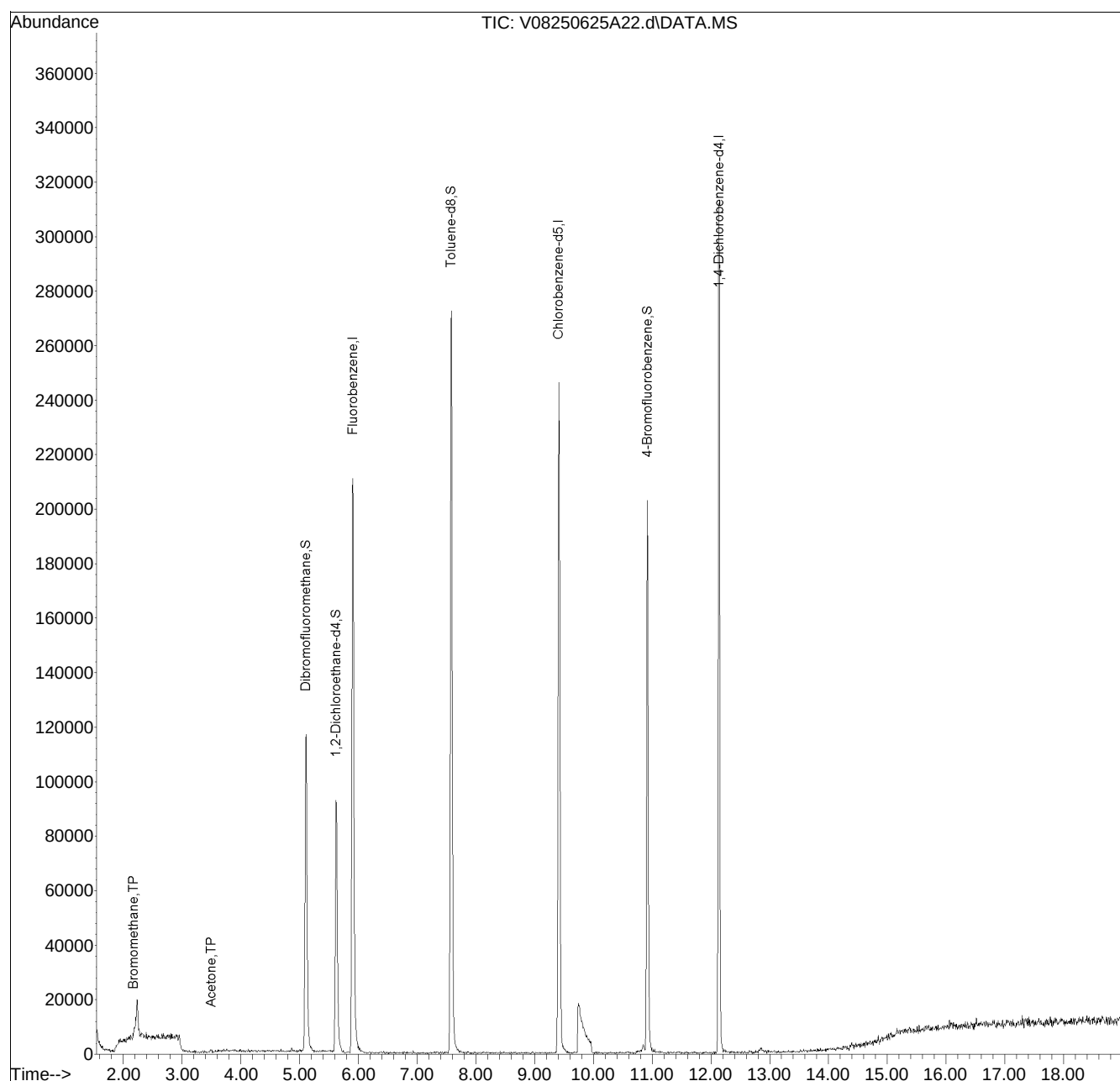
(#) = qualifier out of range (m) = manual integration (+) = signals summed

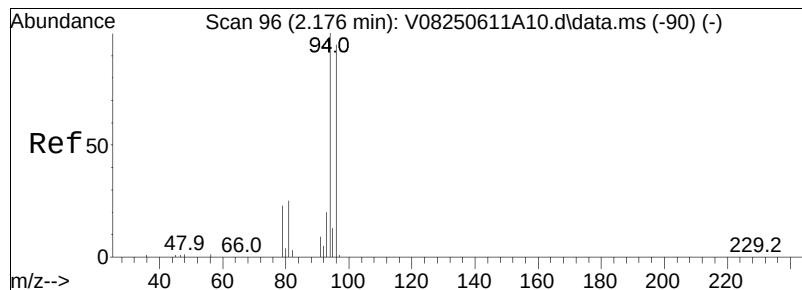
Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250625A\
 Data File : V08250625A22.d
 Acq On : 25 Jun 2025 3:13 pm
 Operator : VOA108:AJK
 Sample : L2538382-08,31,10,10,,A
 Misc : WG2084241,ICAL22356
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 26 15:53:10 2025
 Quant Method : K:\VOA108\2025\250625A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

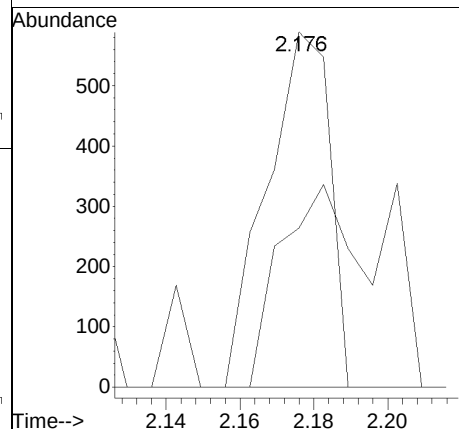
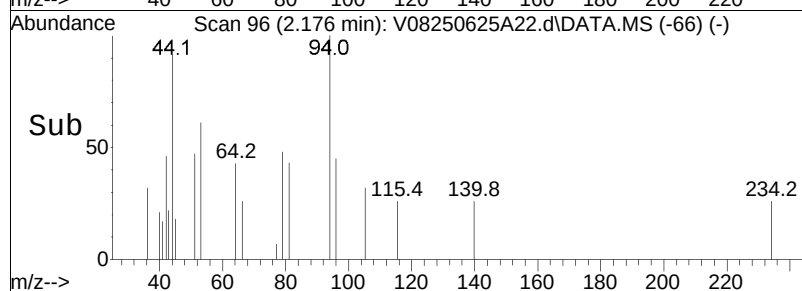
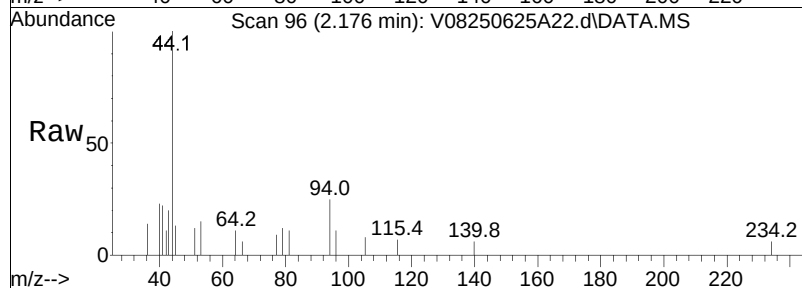
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

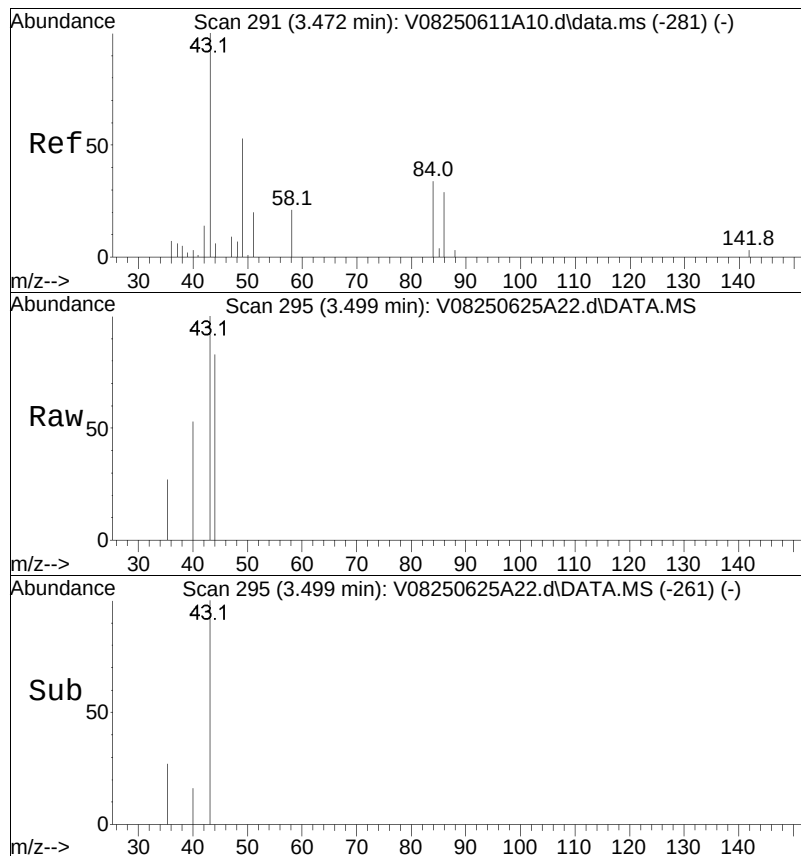




#5
 Bromomethane
 Concen: 0.13 ug/L
 RT: 2.176 min Scan# 96
 Delta R.T. -0.000 min
 Lab File: V08250625A22.d
 Acq: 25 Jun 2025 3:13 pm

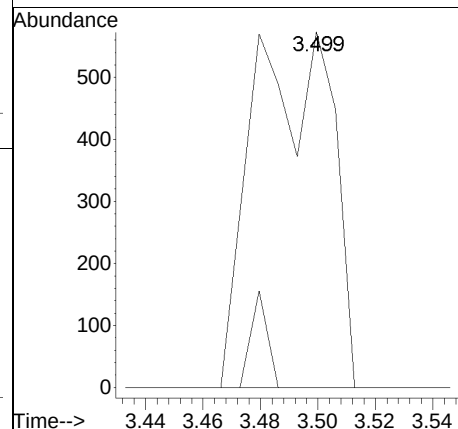
Tgt Ion: 94 Resp: 700
 Ion Ratio Lower Upper
 94 100
 96 89.6 77.7 117.7





#17
 Acetone
 Concen: 0.91 ug/L
 RT: 3.499 min Scan# 295
 Delta R.T. 0.027 min
 Lab File: V08250625A22.d
 Acq: 25 Jun 2025 3:13 pm

Tgt	Ion	Ratio	Lower	Upper
43	100			
58	5.7	21.6	32.4	



Manual Integration Report

Data Path	: K:\V0A108\2025\250625A\	QMethod	: V108_250611A_8260.m
Data File	: V08250625A22.d	Operator	: V0A108:AJK
Date Inj'd	: 6/25/2025 3:13 pm	Instrument	: V0A 108
Sample	: L2538382-08,31,10,10,,A	Quant Date	: 6/26/2025 3:42 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250625A\
 Data File : V08250625A23.d
 Acq On : 25 Jun 2025 3:36 pm
 Operator : VOA108:AJK
 Sample : L2538382-06,31,10,10,,A
 Misc : WG2084241,ICAL22356
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 26 15:53:45 2025
 Quant Method : K:\VOA108\2025\250625A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250625A\V08250625A01.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.906	96	241805	10.000	ug/L	0.00
Standard Area 1 = 305323			Recovery	=	79.20%	
59) Chlorobenzene-d5	9.416	117	185506	10.000	ug/L	0.00
Standard Area 1 = 230501			Recovery	=	80.48%	
79) 1,4-Dichlorobenzene-d4	12.137	152	102137	10.000	ug/L	0.00
Standard Area 1 = 131049			Recovery	=	77.94%	
System Monitoring Compounds						
36) Dibromofluoromethane	5.109	113	83737	10.750	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	107.50%	
43) 1,2-Dichloroethane-d4	5.625	65	79349	10.665	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	106.65%	
60) Toluene-d8	7.582	98	226399	9.986	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	99.86%	
83) 4-Bromofluorobenzene	10.916	95	73685	10.582	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	105.82%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.943	50	154	N.D.		
4) Vinyl chloride	1.910	62	92	N.D.		
5) Bromomethane	2.182	94	800	0.148	ug/L #	51
6) Chloroethane	2.222	64	114	N.D.		
7) Trichlorofluoromethane	2.415	101	133	N.D.		
10) 1,1-Dichloroethene	2.894	96	28125	3.448	ug/L	96
11) Carbon disulfide	2.914	76	360	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	3.479	43	1594	1.314	ug/L #	74
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.599	43	63	N.D.		
20) Methyl tert-butyl ether	3.692	73	400	N.D.		
23) 1,1-Dichloroethane	4.158	63	31169	2.807	ug/L	94
28) cis-1,2-Dichloroethene	4.670	96	61	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	4.929	83	1577	0.127	ug/L #	80
34) Carbon tetrachloride	0.000		0	N.D.	d	

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250625A\
 Data File : V08250625A23.d
 Acq On : 25 Jun 2025 3:36 pm
 Operator : VOA108:AJK
 Sample : L2538382-06,31,10,10,,A
 Misc : WG2084241,ICAL22356
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 26 15:53:45 2025
 Quant Method : K:\VOA108\2025\250625A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250625A\V08250625A01.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37)	1,1,1-Trichloroethane	5.135	97	41624	4.020	ug/L	97
39)	2-Butanone	0.000		0	N.D.	d	
41)	Benzene	0.000		0	N.D.		
44)	1,2-Dichloroethane	0.000		0	N.D.		
47)	Methyl cyclohexane	0.000		0	N.D.		
48)	Trichloroethene	6.084	95	204	N.D.		
51)	1,2-Dichloropropane	0.000		0	N.D.		
54)	Bromodichloromethane	0.000		0	N.D.		
58)	cis-1,3-Dichloropropene	0.000		0	N.D.		
61)	Toluene	0.000		0	N.D.		
62)	4-Methyl-2-pentanone	0.000		0	N.D.		
63)	Tetrachloroethene	8.082	166	2528	0.380	ug/L #	62
65)	trans-1,3-Dichloropropene	0.000		0	N.D.		
68)	1,1,2-Trichloroethane	0.000		0	N.D.		
69)	Chlorodibromomethane	0.000		0	N.D.		
71)	1,2-Dibromoethane	0.000		0	N.D.		
72)	2-Hexanone	9.238	43	88	N.D.		
73)	Chlorobenzene	0.000		0	N.D.		
74)	Ethylbenzene	9.402	91	144	N.D.		
76)	p/m Xylene	0.000		0	N.D.		
77)	o Xylene	0.000		0	N.D.		
78)	Styrene	0.000		0	N.D.		
80)	Bromoform	0.000		0	N.D.		
82)	Isopropylbenzene	0.000		0	N.D.		
87)	1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
100)	1,3-Dichlorobenzene	0.000		0	N.D.		
101)	1,4-Dichlorobenzene	0.000		0	N.D.		
104)	1,2-Dichlorobenzene	0.000		0	N.D.		
106)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
109)	1,2,4-Trichlorobenzene	0.000		0	N.D.		
111)	1,2,3-Trichlorobenzene	0.000		0	N.D.		

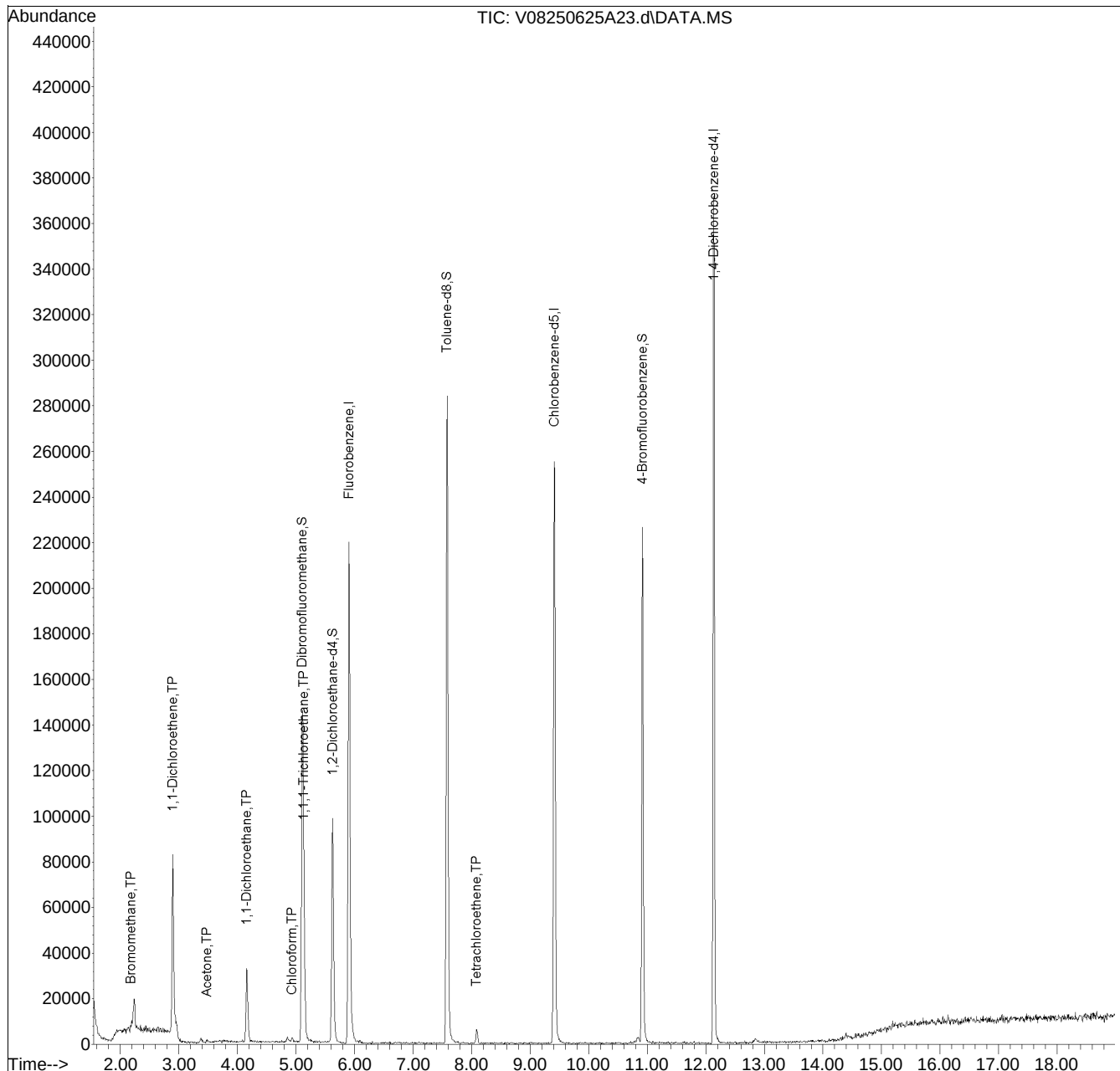
(#) = qualifier out of range (m) = manual integration (+) = signals summed

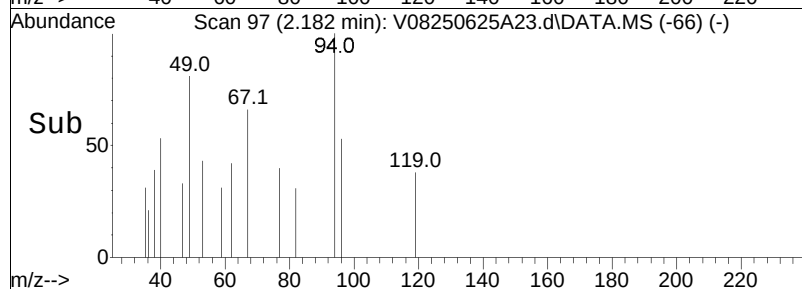
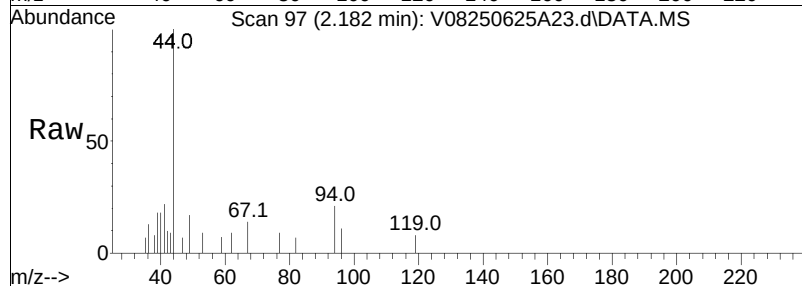
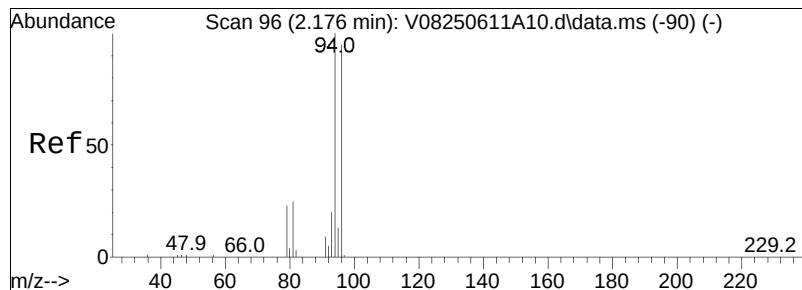
Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250625A\
 Data File : V08250625A23.d
 Acq On : 25 Jun 2025 3:36 pm
 Operator : VOA108:AJK
 Sample : L2538382-06,31,10,10,,A
 Misc : WG2084241,ICAL22356
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 26 15:53:45 2025
 Quant Method : K:\VOA108\2025\250625A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

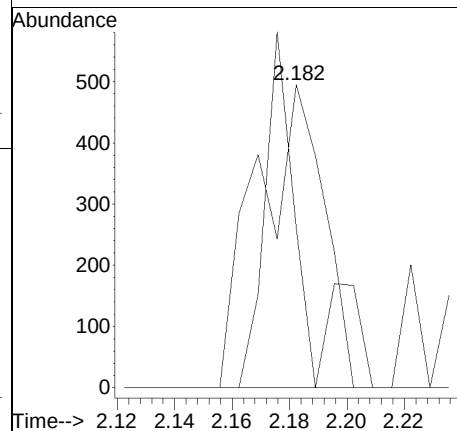
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

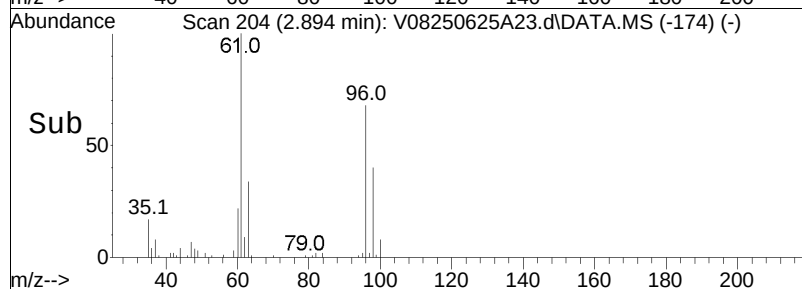
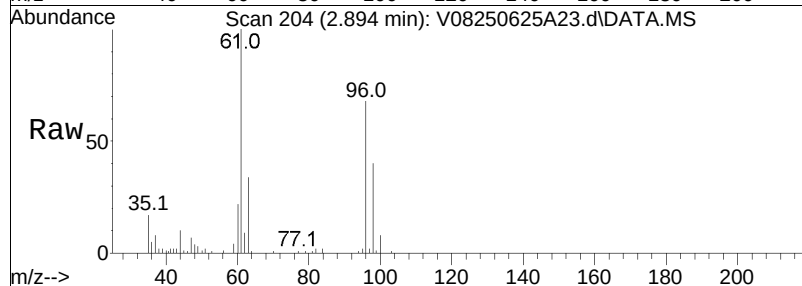
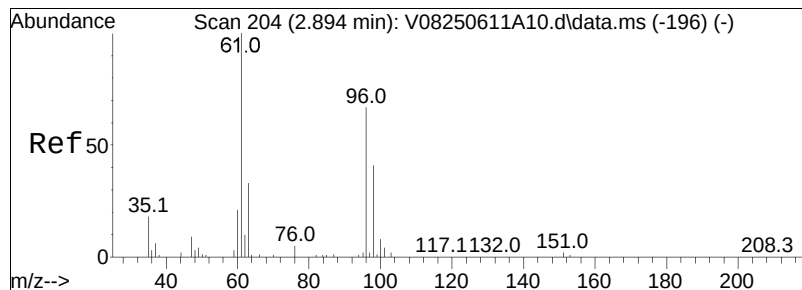




#5
 Bromomethane
 Concen: 0.15 ug/L
 RT: 2.182 min Scan# 97
 Delta R.T. 0.006 min
 Lab File: V08250625A23.d
 Acq: 25 Jun 2025 3:36 pm

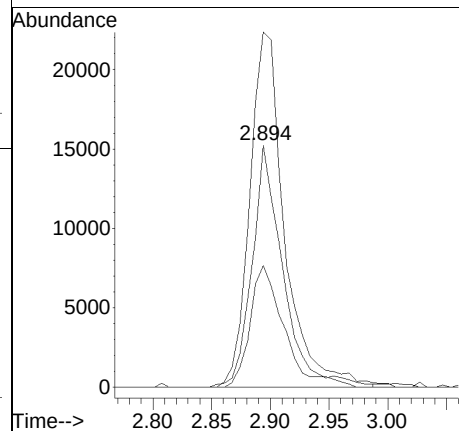
Tgt Ion	Ratio	Lower	Upper
94	100		
96	49.6	77.7	117.7#

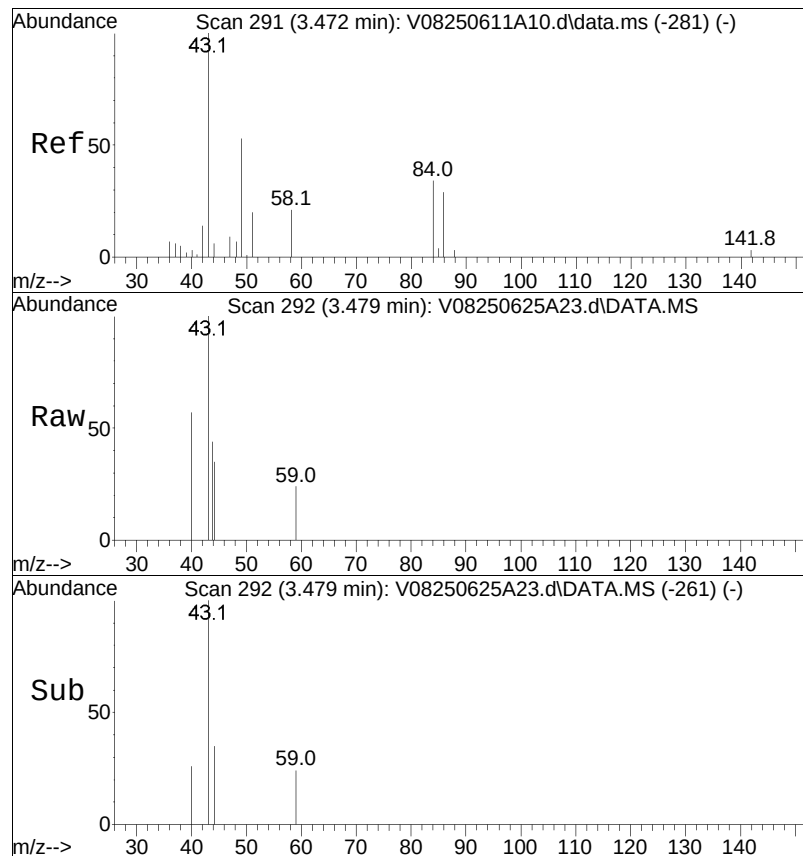




#10
 1,1-Dichloroethene
 Concen: 3.45 ug/L
 RT: 2.894 min Scan# 204
 Delta R.T. -0.000 min
 Lab File: V08250625A23.d
 Acq: 25 Jun 2025 3:36 pm

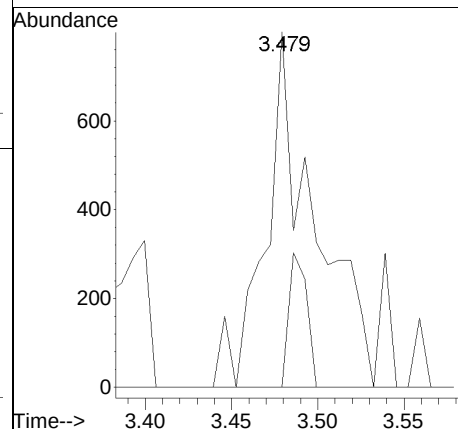
Tgt	Ion: 96	Resp:	28125
Ion	Ratio	Lower	Upper
96	100		
61	164.8	129.4	194.2
63	55.2	39.0	58.6

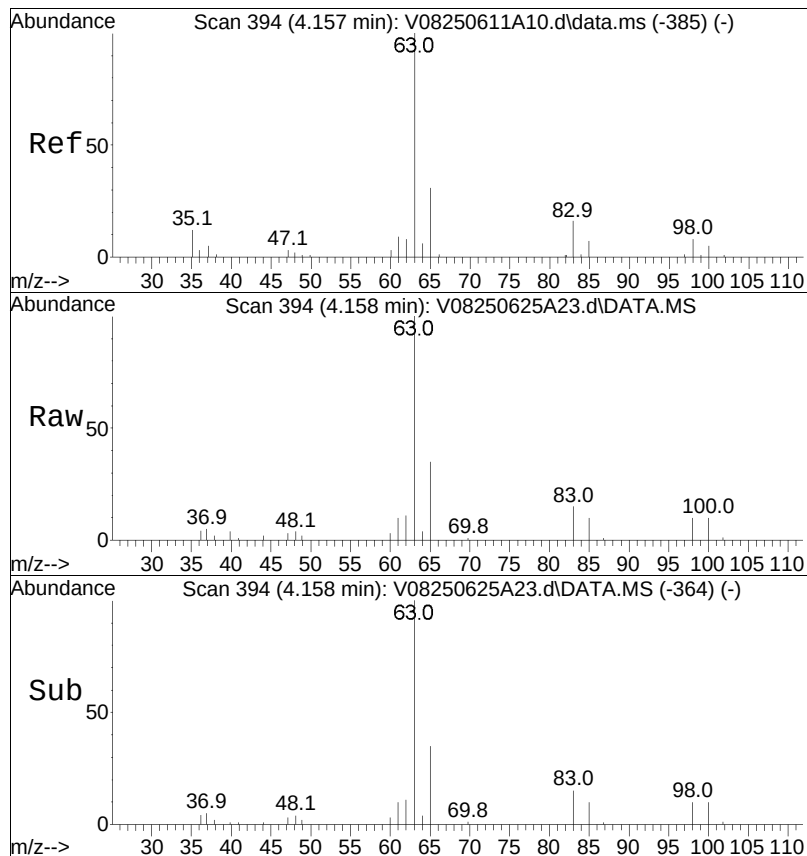




#17
 Acetone
 Concen: 1.31 ug/L
 RT: 3.479 min Scan# 292
 Delta R.T. 0.007 min
 Lab File: V08250625A23.d
 Acq: 25 Jun 2025 3:36 pm

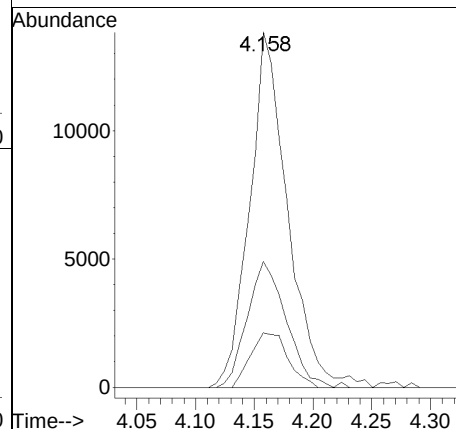
Tgt Ion:	43	58	Ratio	100	13.7	Resp:	1594	Lower	Upper
								21.6	32.4#

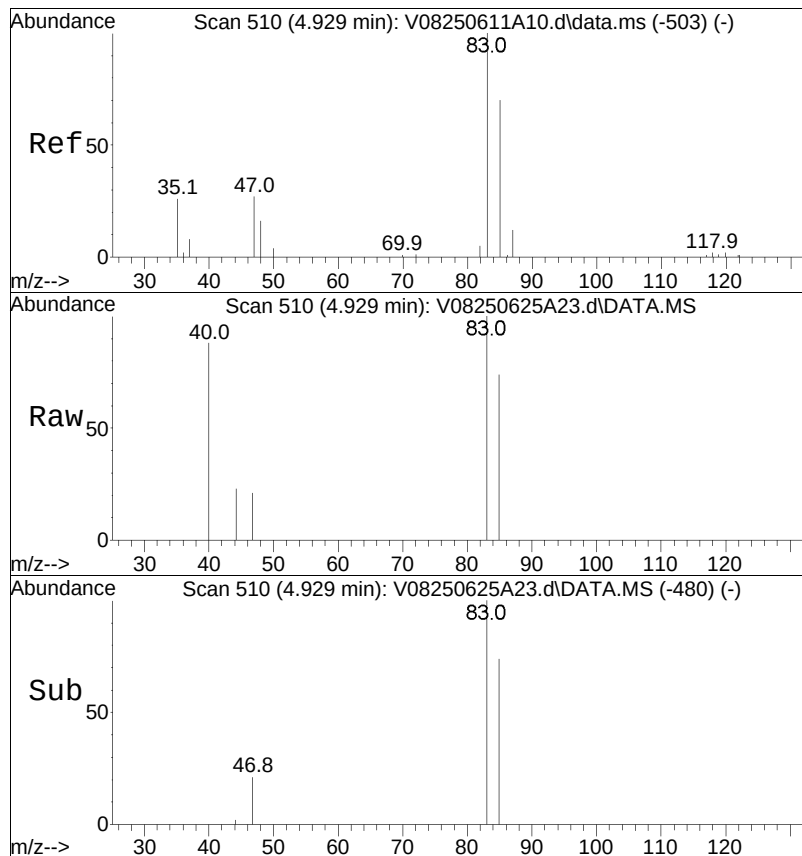




#23
 1,1-Dichloroethane
 Concen: 2.81 ug/L
 RT: 4.158 min Scan# 394
 Delta R.T. 0.001 min
 Lab File: V08250625A23.d
 Acq: 25 Jun 2025 3:36 pm

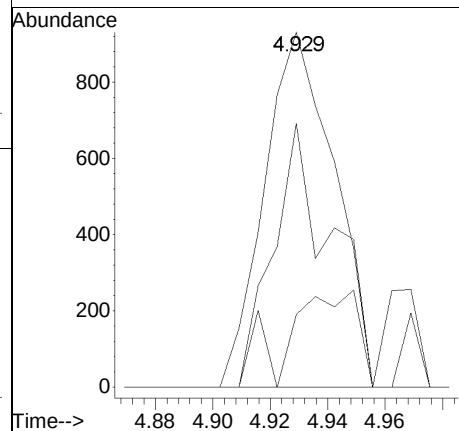
Tgt Ion	Ratio	Lower	Upper
63	100		
65	36.1	12.4	52.4
83	15.1	0.0	33.8

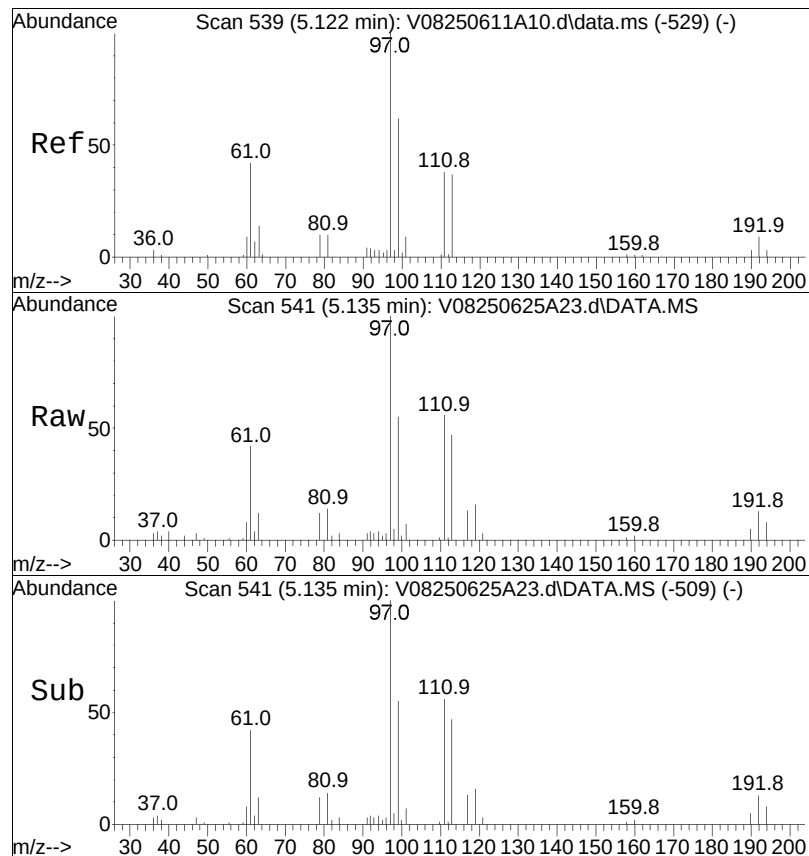




#32
 Chloroform
 Concen: 0.13 ug/L
 RT: 4.929 min Scan# 510
 Delta R.T. 0.000 min
 Lab File: V08250625A23.d
 Acq: 25 Jun 2025 3:36 pm

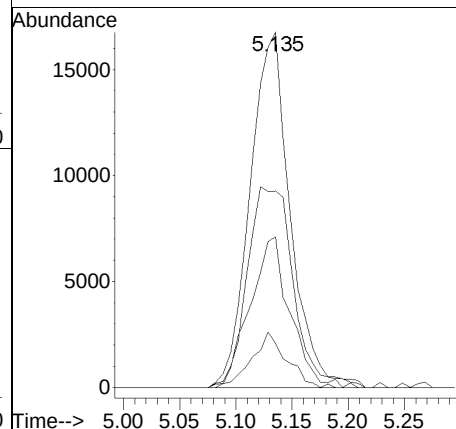
Tgt	Ion: 83	Resp:	1577
Ion	Ratio	Lower	Upper
83	100		
85	62.5	42.1	87.3
47	0.0	17.7	36.7#
48	0.0	9.1	18.9#

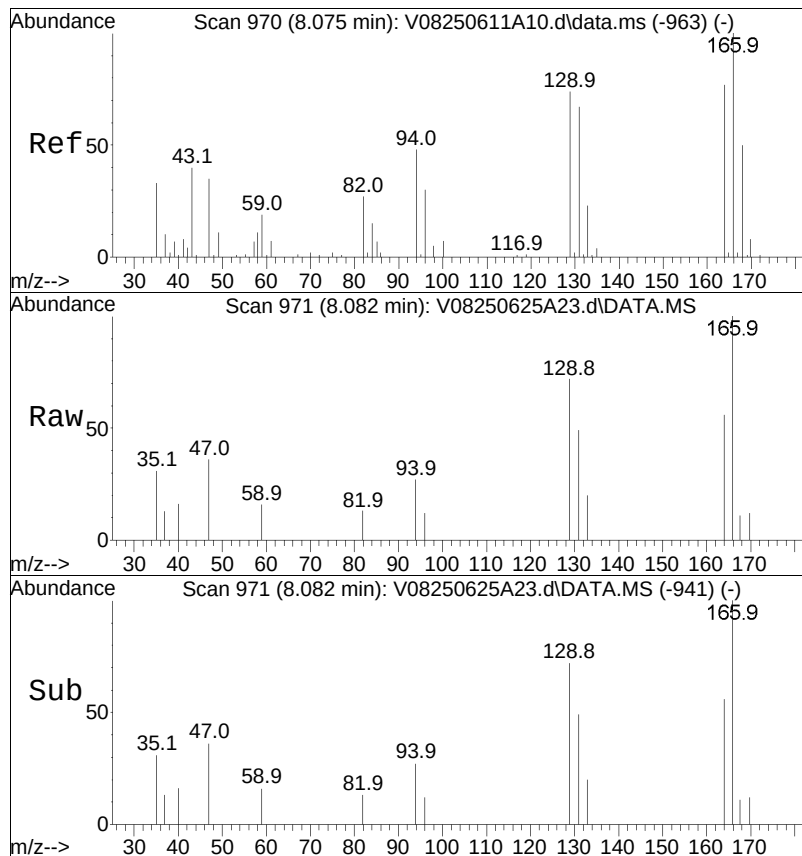




#37
 1,1,1-Trichloroethane
 Concen: 4.02 ug/L
 RT: 5.135 min Scan# 541
 Delta R.T. 0.013 min
 Lab File: V08250625A23.d
 Acq: 25 Jun 2025 3:36 pm

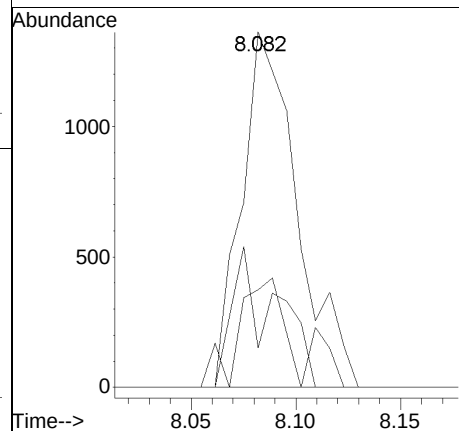
Tgt Ion:	97	Resp:	41624
Ion Ratio	Lower	Upper	
97	100		
99	64.8	40.2	83.4
61	42.4	28.6	59.4
63	13.5	9.2	19.2





#63
Tetrachloroethene
Concen: 0.38 ug/L
RT: 8.082 min Scan# 971
Delta R.T. 0.007 min
Lab File: V08250625A23.d
Acq: 25 Jun 2025 3:36 pm

Tgt Ion:	166	Resp:	2528
Ion Ratio	Lower	Upper	
166	100		
168	15.6	26.2	66.2#
94	24.6	23.6	63.6



Manual Integration Report

Data Path	: K:\V0A108\2025\250625A\	QMethod	: V108_250611A_8260.m
Data File	: V08250625A23.d	Operator	: V0A108:AJK
Date Inj'd	: 6/25/2025 3:36 pm	Instrument	: V0A 108
Sample	: L2538382-06,31,10,10,,A	Quant Date	: 6/26/2025 3:43 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250625A\
 Data File : V08250625A24.d
 Acq On : 25 Jun 2025 3:58 pm
 Operator : VOA108:AJK
 Sample : L2538382-07,31,10,10,,A
 Misc : WG2084241,ICAL22356
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 26 15:54:17 2025
 Quant Method : K:\VOA108\2025\250625A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250625A\V08250625A01.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.906	96	235139	10.000	ug/L	0.00
Standard Area 1 = 305323			Recovery =	77.01%		
59) Chlorobenzene-d5	9.409	117	178414	10.000	ug/L	0.00
Standard Area 1 = 230501			Recovery =	77.40%		
79) 1,4-Dichlorobenzene-d4	12.137	152	93817	10.000	ug/L	0.00
Standard Area 1 = 131049			Recovery =	71.59%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.109	113	79040	10.435	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	104.35%		
43) 1,2-Dichloroethane-d4	5.626	65	79207	10.948	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	109.48%		
60) Toluene-d8	7.582	98	222901	10.223	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.23%		
83) 4-Bromofluorobenzene	10.916	95	70368	11.002	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	110.02%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.876	50	67	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	2.176	94	585	0.111	ug/L	85
6) Chloroethane	2.242	64	156	N.D.		
7) Trichlorofluoromethane	2.528	101	67	N.D.		
10) 1,1-Dichloroethene	2.801	96	61	N.D.		
11) Carbon disulfide	2.927	76	99	N.D.		
12) Freon-113	2.947	101	66	N.D.		
15) Methylene chloride	0.000		0	N.D.		
17) Acetone	3.479	43	1224	1.038	ug/L #	70
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.606	43	69	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	4.942	83	87	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250625A\
 Data File : V08250625A24.d
 Acq On : 25 Jun 2025 3:58 pm
 Operator : VOA108:AJK
 Sample : L2538382-07,31,10,10,,A
 Misc : WG2084241,ICAL22356
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 26 15:54:17 2025
 Quant Method : K:\VOA108\2025\250625A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250625A\V08250625A01.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37)	1,1,1-Trichloroethane	0.000		0		N.D.	
39)	2-Butanone	5.228	43	77		N.D.	
41)	Benzene	0.000		0		N.D.	
44)	1,2-Dichloroethane	0.000		0		N.D.	
47)	Methyl cyclohexane	0.000		0		N.D.	
48)	Trichloroethene	6.050	95	71		N.D.	
51)	1,2-Dichloropropane	0.000		0		N.D.	
54)	Bromodichloromethane	0.000		0		N.D.	
58)	cis-1,3-Dichloropropene	0.000		0		N.D.	
61)	Toluene	0.000		0		N.D.	
62)	4-Methyl-2-pentanone	0.000		0		N.D.	
63)	Tetrachloroethene	0.000		0		N.D.	
65)	trans-1,3-Dichloropropene	0.000		0		N.D.	
68)	1,1,2-Trichloroethane	0.000		0		N.D.	
69)	Chlorodibromomethane	0.000		0		N.D.	
71)	1,2-Dibromoethane	0.000		0		N.D.	
72)	2-Hexanone	8.896	43	74		N.D.	
73)	Chlorobenzene	0.000		0		N.D.	
74)	Ethylbenzene	9.430	91	73		N.D.	
76)	p/m Xylene	0.000		0		N.D.	
77)	o Xylene	0.000		0		N.D.	
78)	Styrene	0.000		0		N.D.	
80)	Bromoform	0.000		0		N.D.	
82)	Isopropylbenzene	0.000		0		N.D.	
87)	1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
100)	1,3-Dichlorobenzene	0.000		0		N.D.	
101)	1,4-Dichlorobenzene	0.000		0		N.D.	
104)	1,2-Dichlorobenzene	0.000		0		N.D.	
106)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
109)	1,2,4-Trichlorobenzene	0.000		0		N.D.	
111)	1,2,3-Trichlorobenzene	0.000		0		N.D.	

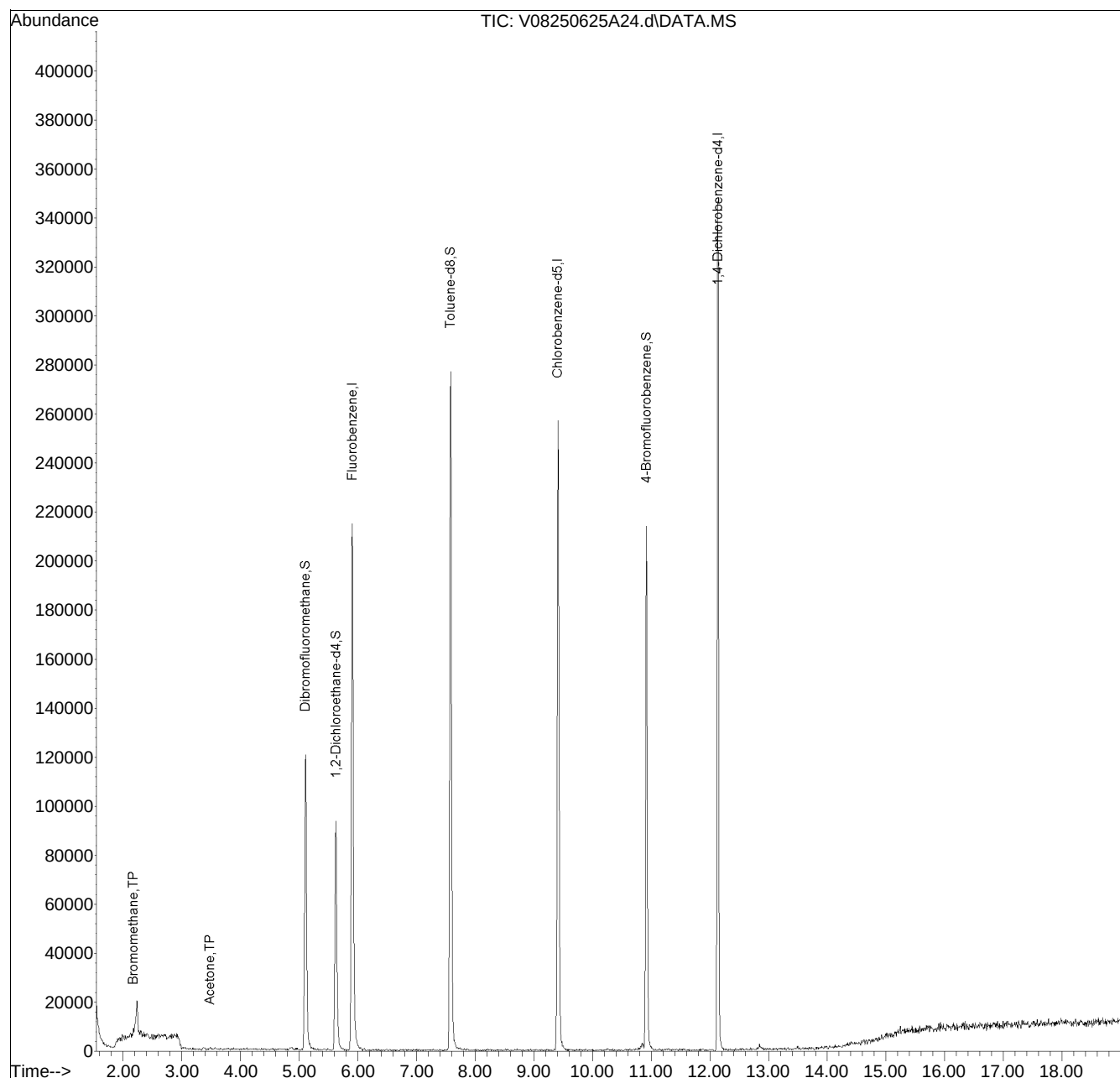
(#) = qualifier out of range (m) = manual integration (+) = signals summed

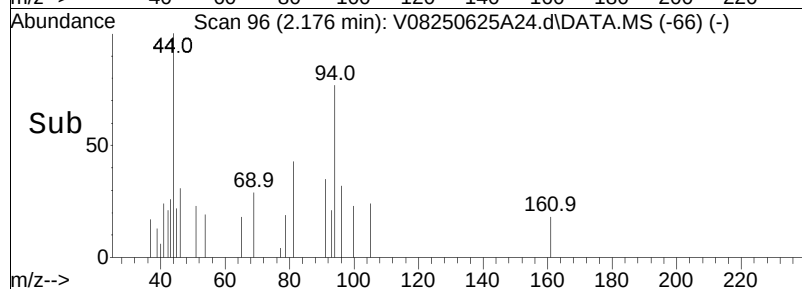
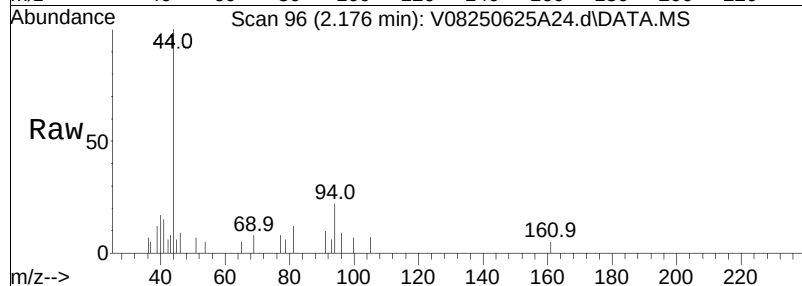
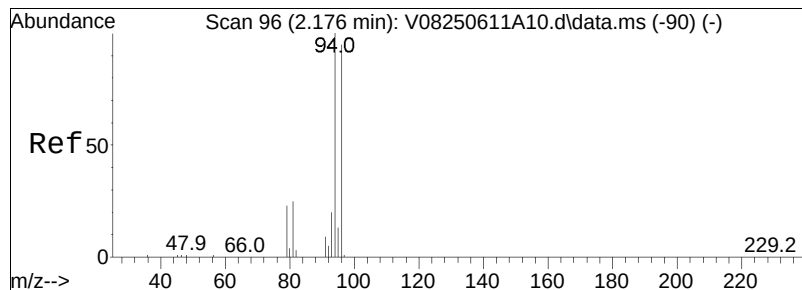
Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250625A\
 Data File : V08250625A24.d
 Acq On : 25 Jun 2025 3:58 pm
 Operator : VOA108:AJK
 Sample : L2538382-07,31,10,10,,A
 Misc : WG2084241,ICAL22356
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 26 15:54:17 2025
 Quant Method : K:\VOA108\2025\250625A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

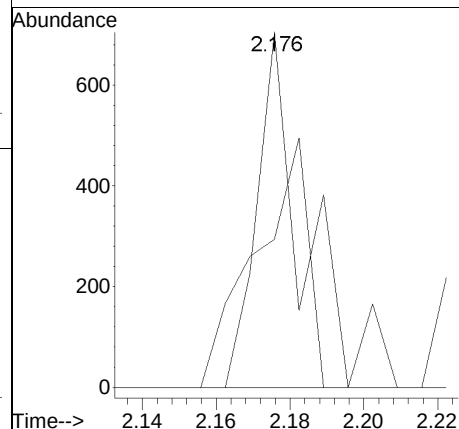
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

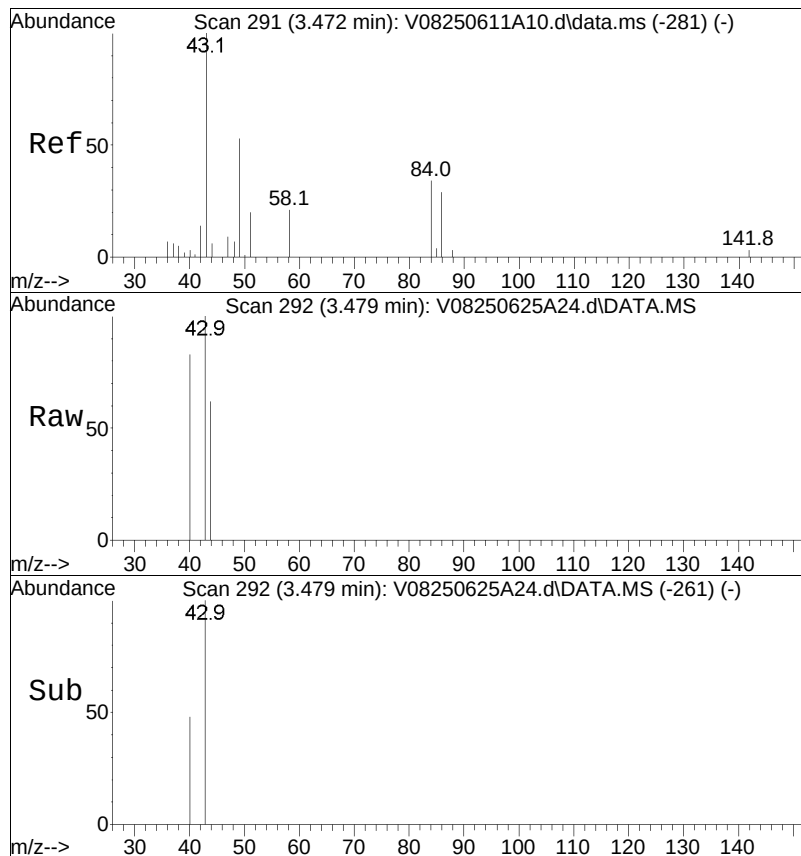




#5
 Bromomethane
 Concen: 0.11 ug/L
 RT: 2.176 min Scan# 96
 Delta R.T. -0.000 min
 Lab File: V08250625A24.d
 Acq: 25 Jun 2025 3:58 pm

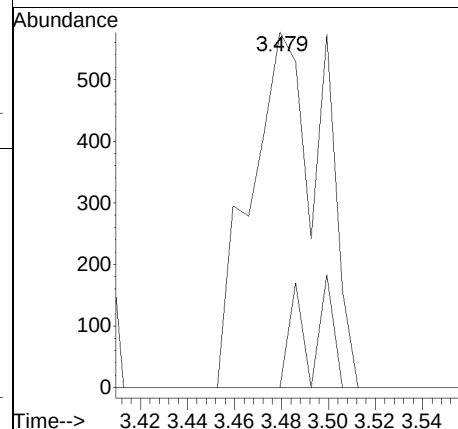
Tgt Ion	Ratio	Lower	Upper
94	100		
96	82.9	77.7	117.7





#17
 Acetone
 Concen: 1.04 ug/L
 RT: 3.479 min Scan# 292
 Delta R.T. 0.007 min
 Lab File: V08250625A24.d
 Acq: 25 Jun 2025 3:58 pm

Tgt Ion:	43	58	Ratio	100	11.5	Resp:	1224	Lower	Upper
								21.6	32.4#



Manual Integration Report

Data Path	: K:\V0A108\2025\250625A\	QMethod	: V108_250611A_8260.m
Data File	: V08250625A24.d	Operator	: V0A108:AJK
Date Inj'd	: 6/25/2025 3:58 pm	Instrument	: V0A 108
Sample	: L2538382-07,31,10,10,,A	Quant Date	: 6/26/2025 3:43 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250625A\
 Data File : V08250625A25.d
 Acq On : 25 Jun 2025 4:21 pm
 Operator : VOA108:AJK
 Sample : L2538382-05,31,10,10,,A
 Misc : WG2084241,ICAL22356
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 26 15:54:31 2025
 Quant Method : K:\VOA108\2025\250625A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250625A\V08250625A01.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.906	96	240369	10.000	ug/L	0.00
Standard Area 1 = 305323			Recovery = 78.73%			
59) Chlorobenzene-d5	9.409	117	191820	10.000	ug/L	0.00
Standard Area 1 = 230501			Recovery = 83.22%			
79) 1,4-Dichlorobenzene-d4	12.137	152	102414	10.000	ug/L	0.00
Standard Area 1 = 131049			Recovery = 78.15%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.102	113	83962	10.843	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.43%			
43) 1,2-Dichloroethane-d4	5.619	65	79859	10.798	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.98%			
60) Toluene-d8	7.582	98	231696	9.883	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.83%			
83) 4-Bromofluorobenzene	10.916	95	77196	11.056	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 110.56%			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	0.000		0		N.D.	
3) Chloromethane	1.936	50	170		N.D.	
4) Vinyl chloride	1.916	62	60		N.D.	
5) Bromomethane	2.116	94	64		N.D.	
6) Chloroethane	2.236	64	329		N.D.	
7) Trichlorofluoromethane	0.000		0		N.D.	
10) 1,1-Dichloroethene	2.854	96	76		N.D.	
11) Carbon disulfide	2.827	76	81		N.D.	
12) Freon-113	2.921	101	70		N.D.	
15) Methylene chloride	0.000		0		N.D.	
17) Acetone	3.479	43	2196M1	1.821	ug/L	
18) trans-1,2-Dichloroethene	0.000		0		N.D.	
19) Methyl acetate	3.612	43	97		N.D.	
20) Methyl tert-butyl ether	0.000		0		N.D.	
23) 1,1-Dichloroethane	0.000		0		N.D.	
28) cis-1,2-Dichloroethene	0.000		0		N.D.	
30) Bromochloromethane	0.000		0		N.D.	
31) Cyclohexane	0.000		0		N.D.	
32) Chloroform	4.916	83	352		N.D.	
34) Carbon tetrachloride	0.000		0		N.D.	

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250625A\
 Data File : V08250625A25.d
 Acq On : 25 Jun 2025 4:21 pm
 Operator : VOA108:AJK
 Sample : L2538382-05,31,10,10,,A
 Misc : WG2084241,ICAL22356
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 26 15:54:31 2025
 Quant Method : K:\VOA108\2025\250625A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250625A\V08250625A01.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37)	1,1,1-Trichloroethane	0.000		0		N.D.	
39)	2-Butanone	5.242	43	78		N.D.	
41)	Benzene	0.000		0		N.D.	
44)	1,2-Dichloroethane	0.000		0		N.D.	
47)	Methyl cyclohexane	0.000		0		N.D.	
48)	Trichloroethene	6.022	95	116		N.D.	
51)	1,2-Dichloropropane	0.000		0		N.D.	
54)	Bromodichloromethane	0.000		0		N.D.	
58)	cis-1,3-Dichloropropene	0.000		0		N.D.	
61)	Toluene	0.000		0		N.D.	
62)	4-Methyl-2-pentanone	0.000		0		N.D.	
63)	Tetrachloroethene	0.000		0		N.D.	
65)	trans-1,3-Dichloropropene	0.000		0		N.D.	
68)	1,1,2-Trichloroethane	0.000		0		N.D.	
69)	Chlorodibromomethane	0.000		0		N.D.	
71)	1,2-Dibromoethane	0.000		0		N.D.	
72)	2-Hexanone	9.074	43	128		N.D.	
73)	Chlorobenzene	0.000		0		N.D.	
74)	Ethylbenzene	9.409	91	70		N.D.	
76)	p/m Xylene	0.000		0		N.D.	
77)	o Xylene	0.000		0		N.D.	
78)	Styrene	0.000		0		N.D.	
80)	Bromoform	0.000		0		N.D.	
82)	Isopropylbenzene	0.000		0		N.D.	
87)	1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
100)	1,3-Dichlorobenzene	0.000		0		N.D.	
101)	1,4-Dichlorobenzene	0.000		0		N.D.	
104)	1,2-Dichlorobenzene	0.000		0		N.D.	
106)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
109)	1,2,4-Trichlorobenzene	0.000		0		N.D.	
111)	1,2,3-Trichlorobenzene	0.000		0		N.D.	

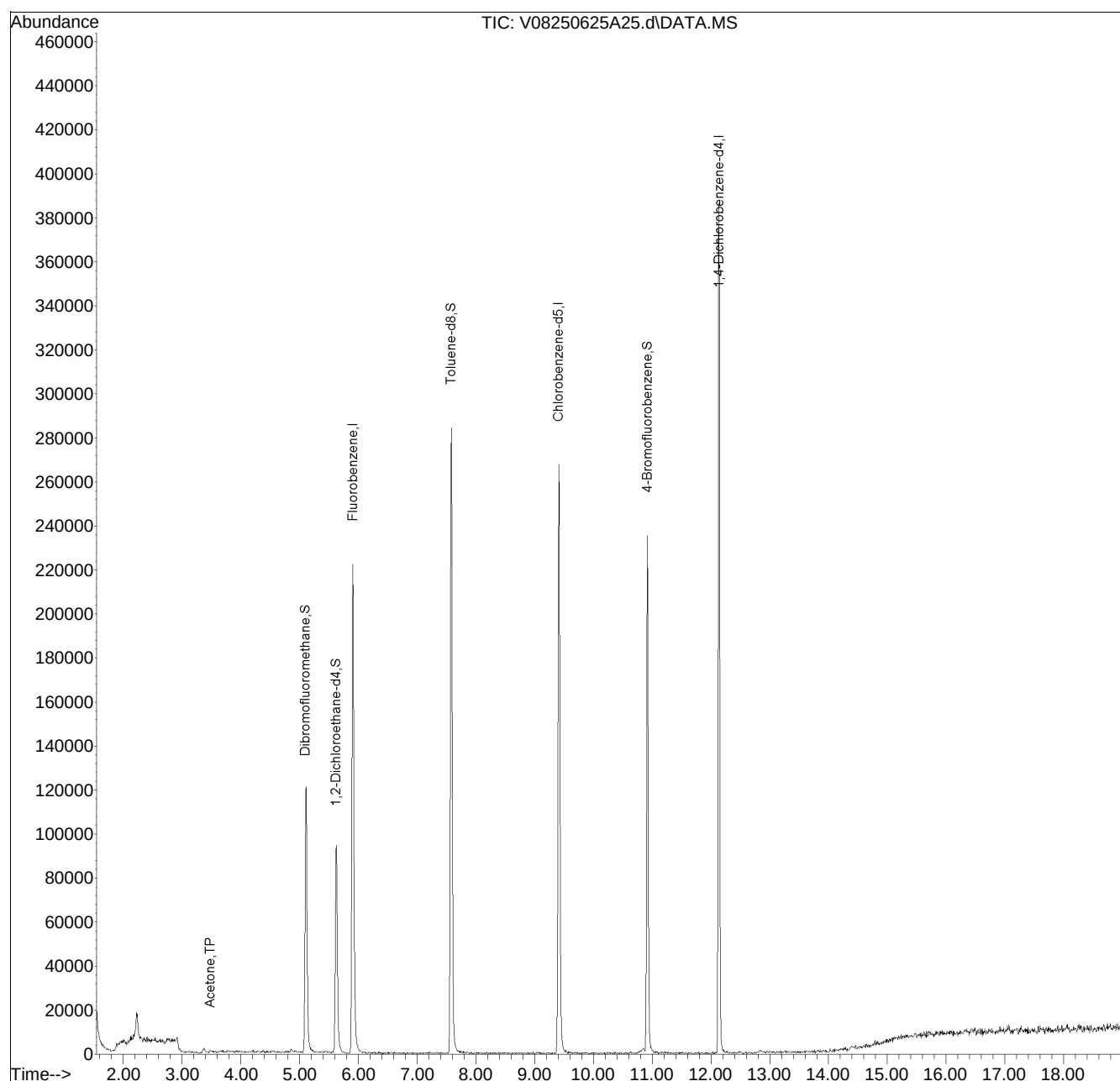
(#) = qualifier out of range (m) = manual integration (+) = signals summed

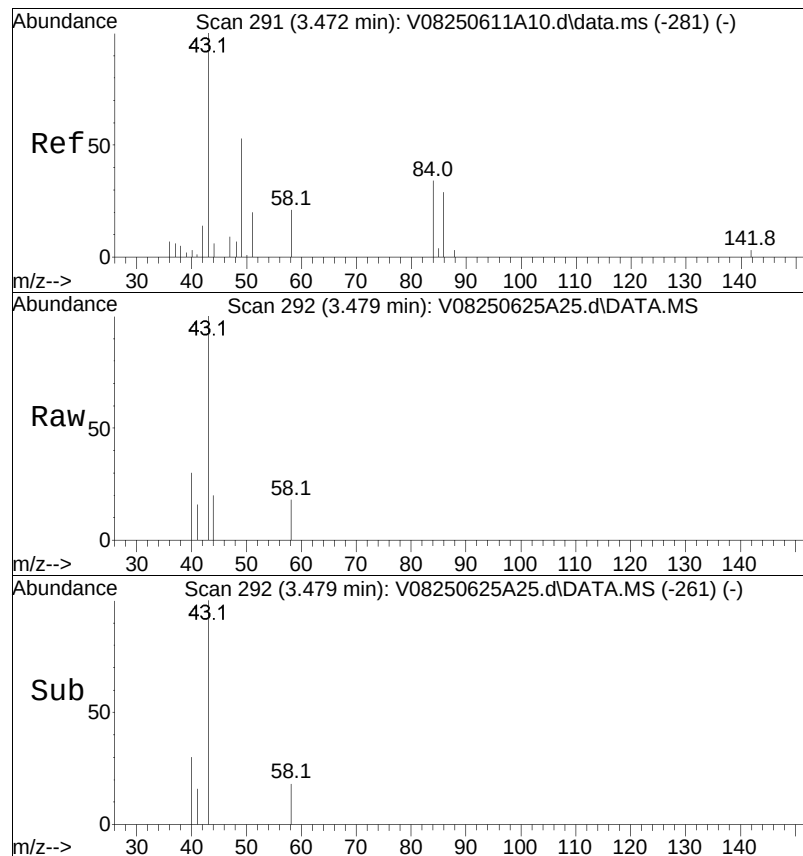
Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250625A\
 Data File : V08250625A25.d
 Acq On : 25 Jun 2025 4:21 pm
 Operator : VOA108:AJK
 Sample : L2538382-05,31,10,10,,A
 Misc : WG2084241,ICAL22356
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 26 15:54:31 2025
 Quant Method : K:\VOA108\2025\250625A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

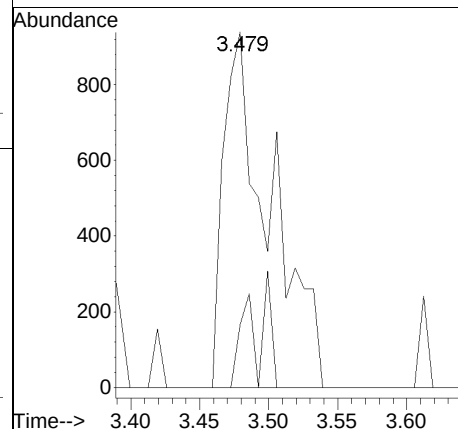
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane





#17
 Acetone
 Concen: 1.82 ug/L M1
 RT: 3.479 min Scan# 292
 Delta R.T. 0.007 min
 Lab File: V08250625A25.d
 Acq: 25 Jun 2025 4:21 pm

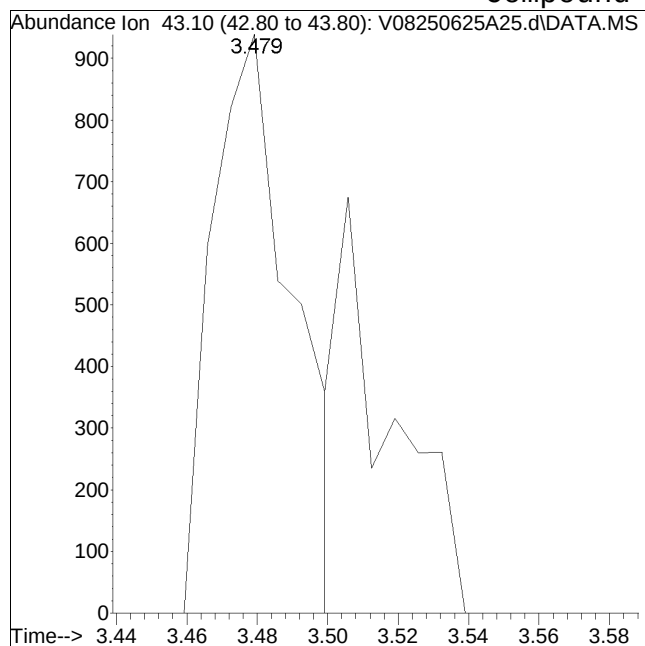
Tgt Ion	Ratio	Lower	Upper
43	100		
58	7.5	21.6	32.4#



Manual Integration Report

Data Path : K:\VOA108\2025\250625A\ QMethod : V108_250611A_8260.m
Data File : V08250625A25.d Operator : VOA108:AJK
Date Inj'd : 6/25/2025 4:21 pm Instrument : VOA 108
Sample : L2538382-05,31,10,10,,A Quant Date : 6/26/2025 3:43 pm

Compound #17: Acetone



Original Peak Response = 1499

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.



Manual Peak Response = 2196 M1

Volatiles Standards Data

Initial Calibration

Initial Calibration Summary

Form 6

Volatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : VOA108
 Calibration dates : 06/11/25 04:08 06/11/25 07:49

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Ical Ref : ICAL22356

Calibration Files

L11 =V08250611A04.d L1 =V08250611A06.d L2 =V08250611A08.d L3 =V08250611A10.d L4 =V08250611A11.d
 L6 =V08250611A12.d L8 =V08250611A13.d L10 =V08250611A14.d

Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
1) I Fluorobenzene	-----ISTD-----									
2) TP Dichlorodifluoromethane		0.170	0.268	0.277	0.249	0.268	0.272	0.248	0.250	14.80
3) TP Chloromethane		0.230	0.287	0.274	0.257	0.261	0.266	0.247	0.260	7.12
4) TP Vinyl chloride	0.337	0.254	0.348	0.358	0.303	0.312	0.306	0.267	0.311	11.89
5) TP Bromomethane		0.152	0.226	0.230	0.224	0.241	0.250	0.246	0.224	14.89
6) TP Chloroethane		0.206	0.277	0.252	0.226	0.224	0.217	0.165	0.224	15.62
7) TP Trichlorofluoromethane		0.588	0.785	0.830	0.724	0.751	0.746	0.683	0.730	10.62
8) TP Ethyl ether		0.210	0.210	0.199	0.194	0.188	0.186	0.169	0.194	7.54
10) TP 1,1-Dichloroethene		0.284	0.373	0.322	0.334	0.356	0.358	0.334	0.337	8.63
11) TP Carbon disulfide		0.808	1.151	0.878	0.948	1.126	1.135	1.063	1.015	13.57
12) TP Freon-113		0.244	0.357	0.268	0.304	0.384	0.391	0.370	0.331	17.78
14) TP Acrolein			0.017	0.027	0.025	0.024	0.025	0.024	0.024	14.85
15) TP Methylene chloride		0.402	0.289	0.280	0.251	0.250	0.255	0.241	0.281	19.91
17) TP Acetone			0.067	0.052	0.045	0.047	0.047	0.043	0.050	17.77
18) TP trans-1,2-Dichloroethene		0.207	0.264	0.253	0.251	0.263	0.269	0.258	0.252	8.39
19) TP Methyl acetate			0.140	0.119	0.117	0.121	0.121	0.113	0.122	7.59
20) TP Methyl tert-butyl ether		0.539	0.604	0.617	0.618	0.639	0.642	0.606	0.609	5.63
21) TP tert-Butyl alcohol			0.013	0.012	0.012	0.012	0.012	0.011	0.012	5.96
22) TP Diisopropyl ether		0.647	0.784	0.836	0.863	0.890	0.898	0.849	0.824	10.53
23) TP 1,1-Dichloroethane		0.374	0.507	0.489	0.464	0.472	0.467	0.443	0.459	9.30
24) TP Halothane		0.156	0.216	0.225	0.210	0.217	0.222	0.214	0.209	11.41
25) TP Acrylonitrile			0.059	0.065	0.055	0.056	0.056	0.051	0.057	8.21
26) TP Ethyl tert-butyl ether		0.497	0.594	0.618	0.667	0.711	0.730	0.713	0.647	12.90
27) TP Vinyl acetate		0.336	0.413	0.456	0.509	0.540	0.537	0.527	0.474	16.20
28) TP cis-1,2-Dichloroethene		0.239	0.292	0.305	0.299	0.297	0.301	0.286	0.289	7.82
29) TP 2,2-Dichloropropane		0.274	0.335	0.345	0.353	0.371	0.378	0.361	0.346	10.07
30) TP Bromochloromethane		0.160	0.170	0.163	0.161	0.168	0.173	0.173	0.167	3.22
31) TP Cyclohexane		0.248	0.352	0.394	0.383	0.416	0.420	0.406	0.374	16.07
32) TP Chloroform		0.553	0.572	0.521	0.504	0.492	0.490	0.470	0.515	7.10
33) TP Ethyl acetate		0.188	0.170	0.188	0.187	0.191	0.190	0.173	0.184	4.67
34) TP Carbon tetrachloride	0.357	0.281	0.477	0.427	0.430	0.456	0.472	0.452	0.419	16.05
35) TP Tetrahydrofuran			0.060	0.061	0.060	0.055	0.057	0.052	0.058	6.10
36) S Dibromofluoromethane	0.331	0.342	0.339	0.313	0.317	0.315	0.310	0.309	0.322	4.10
37) TP 1,1,1-Trichloroethane		0.311	0.446	0.460	0.435	0.452	0.458	0.436	0.428	12.33
39) TP 2-Butanone			0.087	0.073	0.070	0.077	0.073	0.071	0.075	8.40
40) TP 1,1-Dichloropropene		0.245	0.326	0.333	0.330	0.345	0.347	0.329	0.322	10.83



Initial Calibration Summary

Form 6

Volatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : VOA108
 Calibration dates : 06/11/25 04:08 06/11/25 07:49

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Ical Ref : ICAL22356

Calibration Files

L11 =V08250611A04.d L1 =V08250611A06.d L2 =V08250611A08.d L3 =V08250611A10.d L4 =V08250611A11.d
 L6 =V08250611A12.d L8 =V08250611A13.d L10 =V08250611A14.d

Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
41) TP Benzene	0.939	0.898	1.046	1.071	1.048	1.057	1.036	1.041	1.017	6.14
42) TP tert-Amyl methyl ether		0.446	0.512	0.567	0.592	0.622	0.643	0.627	0.573	12.45
43) S 1,2-Dichloroethane-d4	0.316	0.313	0.311	0.306	0.296	0.304	0.300	0.316	0.308	2.41
44) TP 1,2-Dichloroethane	0.356	0.306	0.324	0.323	0.300	0.308	0.307	0.295	0.315	6.19
47) TP Methyl cyclohexane			0.308	0.355	0.352	0.409	0.426	0.436	0.381	13.26
48) TP Trichloroethene	0.289	0.218	0.251	0.276	0.270	0.292	0.317	0.330	0.280	12.75
50) TP Dibromomethane		0.148	0.156	0.163	0.154	0.156	0.161	0.155	0.156	3.18
51) TP 1,2-Dichloropropane		0.203	0.238	0.250	0.255	0.253	0.254	0.239	0.242	7.69
53) TP 2-Chloroethyl vinyl ether			0.094	0.108	0.117	0.126	0.129	0.116	0.115	11.06
54) TP Bromodichloromethane		0.324	0.341	0.363	0.366	0.380	0.382	0.367	0.360	5.79
57) TP 1,4-Dioxane		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001#	6.33
58) TP cis-1,3-Dichloropropene	0.264	0.295	0.330	0.376	0.395	0.415	0.426	0.401	0.363	16.42
59) I Chlorobenzene-d5	-----ISTD-----									
60) S Toluene-d8	1.253	1.276	1.268	1.287	1.266	1.174	1.177	1.076	1.222	6.02
61) TP Toluene		0.609	0.780	0.816	0.771	0.770	0.837	0.759	0.763	9.64
62) TP 4-Methyl-2-pentanone		0.040	0.054	0.066	0.071	0.071	0.072	0.064	0.063	18.89
63) TP Tetrachloroethene	0.369	0.281	0.335	0.376	0.361	0.363	0.401	0.385	0.359	10.26
65) TP trans-1,3-Dichloropropene	0.322	0.279	0.343	0.419	0.420	0.416	0.435	0.401	0.379	15.07
67) TP Ethyl methacrylate			0.210	0.289	0.313	0.303	0.322	0.288	0.288	13.94
68) TP 1,1,2-Trichloroethane		0.228	0.214	0.228	0.218	0.203	0.216	0.196	0.215	5.62
69) TP Chlorodibromomethane		0.317	0.311	0.365	0.373	0.366	0.393	0.359	0.355	8.46
70) TP 1,3-Dichloropropane		0.368	0.431	0.454	0.434	0.402	0.419	0.368	0.411	8.11
71) TP 1,2-Dibromoethane		0.194	0.236	0.264	0.242	0.231	0.245	0.222	0.233	9.29
72) TP 2-Hexanone			0.109	0.130	0.142	0.137	0.143	0.125	0.131	9.69
73) TP Chlorobenzene		0.869	0.907	0.980	0.947	0.960	1.051	0.960	0.954	6.01
74) TP Ethylbenzene		1.093	1.387	1.610	1.540	1.670	1.777	1.629	1.529	14.83
75) TP 1,1,1,2-Tetrachloroethane		0.251	0.322	0.375	0.375	0.397	0.425	0.396	0.363	16.12
76) TP p/m Xylene		0.409	0.557	0.637	0.642	0.725	0.795	0.787	*Q	0.9986
77) TP o Xylene		0.462	0.553	0.624	0.645	0.744	0.809	0.789	0.661	19.36
78) TP Styrene		0.654	0.842	1.029	1.110	1.258	1.365	1.269	*Q	0.9971
79) I 1,4-Dichlorobenzene-d4	-----ISTD-----									
80) TP Bromoform		0.277	0.307	0.362	0.378	0.438	0.472	0.429	0.380	18.76
82) TP Isopropylbenzene		2.080	2.461	2.715	2.577	2.828	3.060	2.783	2.644	11.83
83) S 4-Bromofluorobenzene	0.707	0.748	0.724	0.724	0.628	0.662	0.643	0.617	0.682	7.34
84) TP Bromobenzene		0.773	0.722	0.745	0.657	0.724	0.778	0.720	0.731	5.56
85) TP n-Propylbenzene		2.404	2.877	3.260	2.956	3.296	3.654	3.250	3.100	12.83



Initial Calibration Summary

Form 6

Volatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : VOA108
 Calibration dates : 06/11/25 04:08 06/11/25 07:49

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Ical Ref : ICAL22356

Calibration Files

L11 =V08250611A04.d L1 =V08250611A06.d L2 =V08250611A08.d L3 =V08250611A10.d L4 =V08250611A11.d
 L6 =V08250611A12.d L8 =V08250611A13.d L10 =V08250611A14.d

Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
86) TP 1,4-Dichlorobutane	0.695	0.658	0.707	0.629	0.655	0.674	0.594	0.659	5.88	
87) TP 1,1,2,2-Tetrachloroethane	0.470	0.570	0.553	0.553	0.480	0.476	0.493	0.408	0.500	10.93
88) TP 4-Ethyltoluene	1.972	2.394	2.696	2.523	2.717	2.971	2.732	2.572	12.45	
89) TP 2-Chlorotoluene	1.574	1.756	1.907	1.791	1.860	1.933	1.775	1.800	6.66	
90) TP 1,3,5-Trimethylbenzene	1.691	2.020	2.355	2.265	2.562	2.829	2.643	2.338	16.66	
91) TP 1,2,3-Trichloropropane	0.425	0.403	0.430	0.391	0.419	0.433	0.398	0.414	4.05	
92) TP trans-1,4-Dichloro-2-b...	0.131	0.127	0.115	0.121	0.123	0.106	0.120		7.34	
93) TP 4-Chlorotoluene	1.512	1.741	1.916	1.805	1.888	2.075	1.889	1.832	9.54	
94) TP tert-Butylbenzene	1.539	1.817	1.998	1.930	2.141	2.317	2.121	1.981	12.76	
97) TP 1,2,4-Trimethylbenzene	1.630	2.051	2.351	2.263	2.518	2.694	2.508	2.288	15.55	
98) TP sec-Butylbenzene	2.074	2.717	3.075	2.844	3.194	3.399	3.069	2.910	14.80	
99) TP p-Isopropyltoluene	1.514	2.183	2.641	2.552	2.841	3.081	2.836	*L	0.9976	
100) TP 1,3-Dichlorobenzene	1.313	1.391	1.470	1.443	1.542	1.627	1.545	1.476	7.16	
101) TP 1,4-Dichlorobenzene	1.426	1.440	1.484	1.448	1.515	1.652	1.556	1.503	5.32	
102) TP p-Diethylbenzene	1.250	1.514	1.470	1.671	1.822	1.726	1.575		13.10	
103) TP n-Butylbenzene	1.540	2.027	2.256	2.135	2.393	2.515	2.286	2.165	14.71	
104) TP 1,2-Dichlorobenzene	1.141	1.345	1.406	1.326	1.385	1.496	1.392	1.356	8.05	
105) TP 1,2,4,5-Tetramethylben...	1.862	2.450	2.472	2.801	3.129	2.855	2.595		16.97	
106) TP 1,2-Dibromo-3-chloropr...	0.042	0.066	0.086	0.083	0.085	0.086	0.075	*L	0.9958	
107) TP 1,3,5-Trichlorobenzene	0.840	0.939	1.025	0.961	1.069	1.169	1.144	1.021	11.49	
108) TP Hexachlorobutadiene	0.355	0.380	0.439	0.379	0.472	0.526	0.557	0.444	17.60	
109) TP 1,2,4-Trichlorobenzene	0.784	0.753	0.896	0.817	0.916	1.010	1.053	0.890	12.72	
110) TP Naphthalene	1.316	1.399	1.757	1.673	1.829	1.954	1.762	1.670	13.85	
111) TP 1,2,3-Trichlorobenzene	0.753	0.763	0.799	0.736	0.814	0.881	0.845	0.799	6.55	



Response Factor Report VOA 108

Method Path : K:\VOA108\2025\250611AICAL\
 Method File : V108_250611A_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Wed Jun 11 15:00:39 2025
 Response Via : Initial Calibration

Calibration Files

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 L6 =V08250611A12.d L8 =V08250611A13.d L10 =V08250611A14.d

Compound		L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD

1) I	Fluorobenzene	-----ISTD-----									
2) TP	Dichlorodifluo...	0.170	0.268	0.277	0.249	0.268	0.272	0.248	0.250	14.80	
3) TP	Chloromethane	0.230	0.287	0.274	0.257	0.261	0.266	0.247	0.260	7.12	
4) TP	Vinyl chloride	0.337 0.254	0.348	0.358	0.303	0.312	0.306	0.267	0.311	11.89	
5) TP	Bromomethane	0.152	0.226	0.230	0.224	0.241	0.250	0.246	0.224	14.89	
6) TP	Chloroethane	0.206	0.277	0.252	0.226	0.224	0.217	0.165	0.224	15.62	
7) TP	Trichlorofluor...	0.588	0.785	0.830	0.724	0.751	0.746	0.683	0.730	10.62	
8) TP	Ethyl ether	0.210	0.210	0.199	0.194	0.188	0.186	0.169	0.194	7.54	
10) TP	1,1-Dichloroet...	0.284	0.373	0.322	0.334	0.356	0.358	0.334	0.337	8.63	
11) TP	Carbon disulfide	0.808	1.151	0.878	0.948	1.126	1.135	1.063	1.015	13.57	
12) TP	Freon-113	0.244	0.357	0.268	0.304	0.384	0.391	0.370	0.331	17.78	
14) TP	Acrolein		0.017	0.027	0.025	0.024	0.025	0.024	0.024	14.85	
15) TP	Methylene chlo...	0.402	0.289	0.280	0.251	0.250	0.255	0.241	0.281	19.91	
17) TP	Acetone		0.067	0.052	0.045	0.047	0.047	0.043	0.050	17.77	
18) TP	trans-1,2-Dich...	0.207	0.264	0.253	0.251	0.263	0.269	0.258	0.252	8.39	
19) TP	Methyl acetate		0.140	0.119	0.117	0.121	0.121	0.113	0.122	7.59	
20) TP	Methyl tert-bu...	0.539	0.604	0.617	0.618	0.639	0.642	0.606	0.609	5.63	
21) TP	tert-Butyl alc...		0.013	0.012	0.012	0.012	0.012	0.011	0.012	5.96	
22) TP	Diisopropyl ether	0.647	0.784	0.836	0.863	0.890	0.898	0.849	0.824	10.53	
23) TP	1,1-Dichloroet...	0.374	0.507	0.489	0.464	0.472	0.467	0.443	0.459	9.30	
24) TP	Halothane	0.156	0.216	0.225	0.210	0.217	0.222	0.214	0.209	11.41	
25) TP	Acrylonitrile		0.059	0.065	0.055	0.056	0.056	0.051	0.057	8.21	
26) TP	Ethyl tert-but...	0.497	0.594	0.618	0.667	0.711	0.730	0.713	0.647	12.90	
27) TP	Vinyl acetate	0.336	0.413	0.456	0.509	0.540	0.537	0.527	0.474	16.20	
28) TP	cis-1,2-Dichlo...	0.239	0.292	0.305	0.299	0.297	0.301	0.286	0.289	7.82	
29) TP	2,2-Dichloropr...	0.274	0.335	0.345	0.353	0.371	0.378	0.361	0.346	10.07	
30) TP	Bromochloromet...	0.160	0.170	0.163	0.161	0.168	0.173	0.173	0.167	3.22	
31) TP	Cyclohexane	0.248	0.352	0.394	0.383	0.416	0.420	0.406	0.374	16.07	
32) TP	Chloroform	0.553	0.572	0.521	0.504	0.492	0.490	0.470	0.515	7.10	
33) TP	Ethyl acetate	0.188	0.170	0.188	0.187	0.191	0.190	0.173	0.184	4.67	
34) TP	Carbon tetrach...	0.357 0.281	0.477	0.427	0.430	0.456	0.472	0.452	0.419	16.05	

Response Factor Report VOA 108

Method Path : K:\VOA108\2025\250611AICAL\
 Method File : V108_250611A_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Wed Jun 11 15:00:39 2025
 Response Via : Initial Calibration

Calibration Files

L11 =V08250611A04.d L1 =V08250611A06.d L2 =V08250611A08.d L3 =V08250611A10.d L4 =V08250611A11.d
 L6 =V08250611A12.d L8 =V08250611A13.d L10 =V08250611A14.d

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
35)	TP Tetrahydrofuran		0.060	0.061	0.060	0.055	0.057	0.052	0.058	6.10	
36)	S Dibromofluorom...	0.331	0.342	0.339	0.313	0.317	0.315	0.310	0.309	0.322	4.10
37)	TP 1,1,1-Trichlor...		0.311	0.446	0.460	0.435	0.452	0.458	0.436	0.428	12.33
39)	TP 2-Butanone		0.087	0.073	0.070	0.077	0.073	0.071	0.075		8.40
40)	TP 1,1-Dichloropr...		0.245	0.326	0.333	0.330	0.345	0.347	0.329	0.322	10.83
41)	TP Benzene	0.939	0.898	1.046	1.071	1.048	1.057	1.036	1.041	1.017	6.14
42)	TP tert-Amyl meth...		0.446	0.512	0.567	0.592	0.622	0.643	0.627	0.573	12.45
43)	S 1,2-Dichloroet...	0.316	0.313	0.311	0.306	0.296	0.304	0.300	0.316	0.308	2.41
44)	TP 1,2-Dichloroet...	0.356	0.306	0.324	0.323	0.300	0.308	0.307	0.295	0.315	6.19
47)	TP Methyl cyclohe...		0.308	0.355	0.352	0.409	0.426	0.436	0.381		13.26
48)	TP Trichloroethene	0.289	0.218	0.251	0.276	0.270	0.292	0.317	0.330	0.280	12.75
50)	TP Dibromomethane		0.148	0.156	0.163	0.154	0.156	0.161	0.155	0.156	3.18
51)	TP 1,2-Dichloropr...		0.203	0.238	0.250	0.255	0.253	0.254	0.239	0.242	7.69
53)	TP 2-Chloroethyl ...			0.094	0.108	0.117	0.126	0.129	0.116	0.115	11.06
54)	TP Bromodichlorom...		0.324	0.341	0.363	0.366	0.380	0.382	0.367	0.360	5.79
57)	TP 1,4-Dioxane		0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001#	6.33
58)	TP cis-1,3-Dichlo...	0.264	0.295	0.330	0.376	0.395	0.415	0.426	0.401	0.363	16.42
59)	I Chlorobenzene-d5	-----ISTD-----									
60)	S Toluene-d8	1.253	1.276	1.268	1.287	1.266	1.174	1.177	1.076	1.222	6.02
61)	TP Toluene		0.609	0.780	0.816	0.771	0.770	0.837	0.759	0.763	9.64
62)	TP 4-Methyl-2-pen...		0.040	0.054	0.066	0.071	0.071	0.072	0.064	0.063	18.89
63)	TP Tetrachloroethene	0.369	0.281	0.335	0.376	0.361	0.363	0.401	0.385	0.359	10.26
65)	TP trans-1,3-Dich...	0.322	0.279	0.343	0.419	0.420	0.416	0.435	0.401	0.379	15.07
67)	TP Ethyl methacry...			0.210	0.289	0.313	0.303	0.322	0.288	0.288	13.94
68)	TP 1,1,2-Trichlor...		0.228	0.214	0.228	0.218	0.203	0.216	0.196	0.215	5.62
69)	TP Chlorodibromom...		0.317	0.311	0.365	0.373	0.366	0.393	0.359	0.355	8.46
70)	TP 1,3-Dichloropr...		0.368	0.431	0.454	0.434	0.402	0.419	0.368	0.411	8.11
71)	TP 1,2-Dibromoethane		0.194	0.236	0.264	0.242	0.231	0.245	0.222	0.233	9.29
72)	TP 2-Hexanone			0.109	0.130	0.142	0.137	0.143	0.125	0.131	9.69
73)	TP Chlorobenzene		0.869	0.907	0.980	0.947	0.960	1.051	0.960	0.954	6.01
74)	TP Ethylbenzene		1.093	1.387	1.610	1.540	1.670	1.777	1.629	1.529	14.83

Response Factor Report VOA 108

Method Path : K:\VOA108\2025\250611AICAL\
 Method File : V108_250611A_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Wed Jun 11 15:00:39 2025
 Response Via : Initial Calibration

Calibration Files

L11 =V08250611A04.d L1 =V08250611A06.d L2 =V08250611A08.d L3 =V08250611A10.d L4 =V08250611A11.d
 L6 =V08250611A12.d L8 =V08250611A13.d L10 =V08250611A14.d

	Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
75) TP	1,1,1,2-Tetrac...	0.251	0.322	0.375	0.375	0.397	0.425	0.396	0.363	16.12	
76) TP	p/m Xylene	0.409	0.557	0.637	0.642	0.725	0.795	0.787	*Q	0.9986	
77) TP	o Xylene	0.462	0.553	0.624	0.645	0.744	0.809	0.789	0.661	19.36	
78) TP	Styrene	0.654	0.842	1.029	1.110	1.258	1.365	1.269	*Q	0.9971	
79) I	1,4-Dichlorobenzene-d4	-----ISTD-----									
80) TP	Bromoform	0.277	0.307	0.362	0.378	0.438	0.472	0.429	0.380	18.76	
82) TP	Isopropylbenzene	2.080	2.461	2.715	2.577	2.828	3.060	2.783	2.644	11.83	
83) S	4-Bromofluorob...	0.707	0.748	0.724	0.628	0.662	0.643	0.617	0.682	7.34	
84) TP	Bromobenzene	0.773	0.722	0.745	0.657	0.724	0.778	0.720	0.731	5.56	
85) TP	n-Propylbenzene	2.404	2.877	3.260	2.956	3.296	3.654	3.250	3.100	12.83	
86) TP	1,4-Dichlorobu...	0.695	0.658	0.707	0.629	0.655	0.674	0.594	0.659	5.88	
87) TP	1,1,2,2-Tetrac...	0.470	0.570	0.553	0.480	0.476	0.493	0.408	0.500	10.93	
88) TP	4-Ethyltoluene	1.972	2.394	2.696	2.523	2.717	2.971	2.732	2.572	12.45	
89) TP	2-Chlorotoluene	1.574	1.756	1.907	1.791	1.860	1.933	1.775	1.800	6.66	
90) TP	1,3,5-Trimethy...	1.691	2.020	2.355	2.265	2.562	2.829	2.643	2.338	16.66	
91) TP	1,2,3-Trichlor...	0.425	0.403	0.430	0.391	0.419	0.433	0.398	0.414	4.05	
92) TP	trans-1,4-Dich...		0.131	0.127	0.115	0.121	0.123	0.106	0.120	7.34	
93) TP	4-Chlorotoluene	1.512	1.741	1.916	1.805	1.888	2.075	1.889	1.832	9.54	
94) TP	tert-Butylbenzene	1.539	1.817	1.998	1.930	2.141	2.317	2.121	1.981	12.76	
97) TP	1,2,4-Trimethy...	1.630	2.051	2.351	2.263	2.518	2.694	2.508	2.288	15.55	
98) TP	sec-Butylbenzene	2.074	2.717	3.075	2.844	3.194	3.399	3.069	2.910	14.80	
99) TP	p-Isopropyltol...	1.514	2.183	2.641	2.552	2.841	3.081	2.836	*L	0.9976	
100) TP	1,3-Dichlorobe...	1.313	1.391	1.470	1.443	1.542	1.627	1.545	1.476	7.16	
101) TP	1,4-Dichlorobe...	1.426	1.440	1.484	1.448	1.515	1.652	1.556	1.503	5.32	
102) TP	p-Diethylbenzene		1.250	1.514	1.470	1.671	1.822	1.726	1.575	13.10	
103) TP	n-Butylbenzene	1.540	2.027	2.256	2.135	2.393	2.515	2.286	2.165	14.71	
104) TP	1,2-Dichlorobe...	1.141	1.345	1.406	1.326	1.385	1.496	1.392	1.356	8.05	
105) TP	1,2,4,5-Tetram...		1.862	2.450	2.472	2.801	3.129	2.855	2.595	16.97	
106) TP	1,2-Dibromo-3-...	0.042	0.066	0.086	0.083	0.085	0.086	0.075	*L	0.9958	
107) TP	1,3,5-Trichlor...	0.840	0.939	1.025	0.961	1.069	1.169	1.144	1.021	11.49	
108) TP	Hexachlorobuta...	0.355	0.380	0.439	0.379	0.472	0.526	0.557	0.444	17.60	

Response Factor Report VOA 108

Method Path : K:\VOA108\2025\250611AICAL\
Method File : V108_250611A_8260.m
Title : VOLATILES BY GC/MS
Last Update : Wed Jun 11 15:00:39 2025
Response Via : Initial Calibration

Calibration Files

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L6 =V08250611A12.d L8 =V08250611A13.d L10 =V08250611A14.d

Compound	L11	L1	L2	L3	L4	L6	L8	L10	Avg	%RSD
109) TP 1,2,4-Trichlor...	0.784	0.753	0.896	0.817	0.916	1.010	1.053	0.890	12.72	
110) TP Naphthalene	1.316	1.399	1.757	1.673	1.829	1.954	1.762	1.670	13.85	
111) TP 1,2,3-Trichlor...	0.753	0.763	0.799	0.736	0.814	0.881	0.845	0.799	6.55	

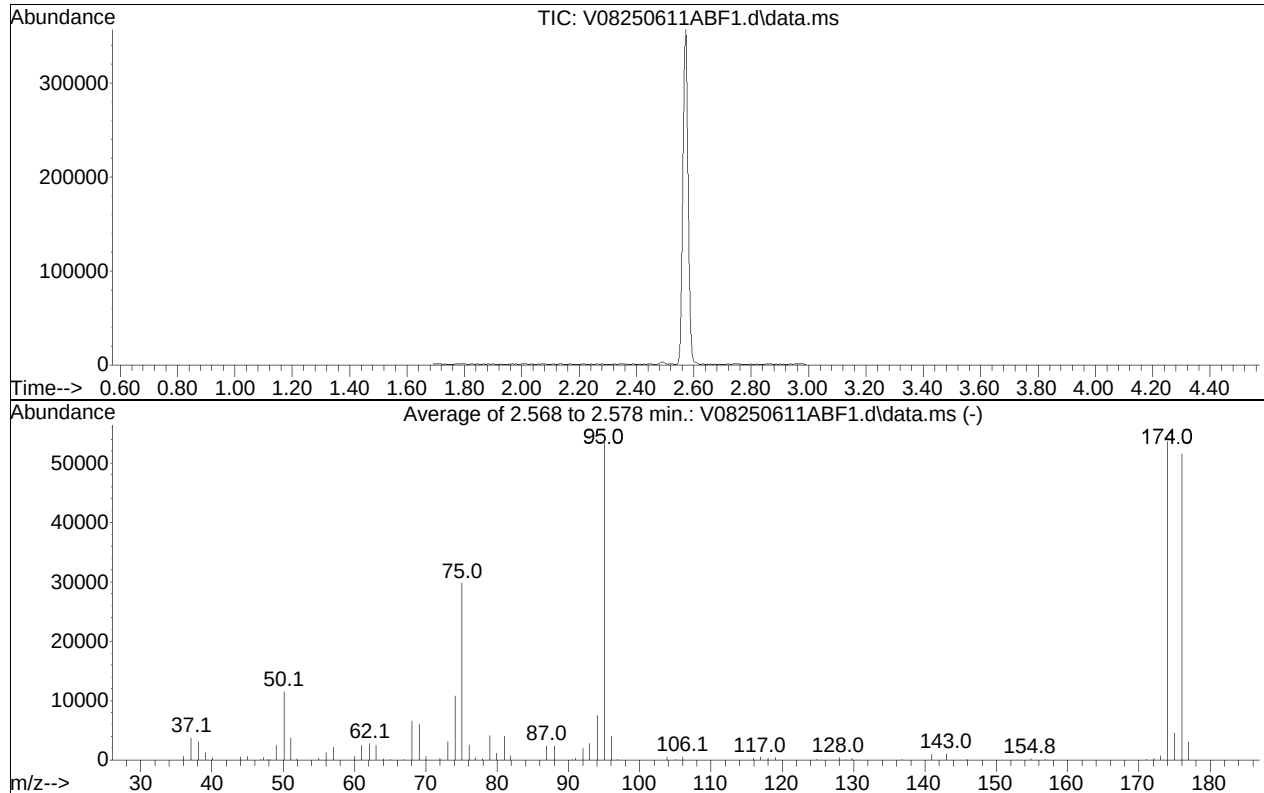
(#) = Out of Range

BFB

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611ABF1.d
 Acq On : 11 Jun 2025 2:40 am
 Operator : VOA108:TMS
 Sample : WG2077605-1
 Misc : WG2077605
 ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Wed Jun 11 11:20:39 2025



AutoFind: Scans 168, 169, 170; Background Corrected with Scan 161

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.4	11514	PASS
75	95	30	60	55.4	29768	PASS
95	95	100	100	100.0	53752	PASS
96	95	5	9	7.5	4015	PASS
173	174	0.00	2	1.4	745	PASS
174	95	50	100	99.7	53595	PASS
175	174	5	9	8.4	4523	PASS
176	174	95	101	96.2	51568	PASS
177	176	5	9	6.1	3137	PASS

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A04.d
 Acq On : 11 Jun 2025 4:08 am
 Operator : VOA108:PID
 Sample : I8260STD0.19PPB
 Misc : WG2077605,ICAL (Sig #1); WG,ICAL22328 (Sig #2)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 11 11:02:42 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250611AICAL\V08250611A10.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.899	96	269718	10.000	ug/L	0.00
Standard Area 1 = 281729			Recovery =	95.74%		
59) Chlorobenzene-d5	9.410	117	206509	10.000	ug/L	0.00
Standard Area 1 = 211926			Recovery =	97.44%		
79) 1,4-Dichlorobenzene-d4	12.130	152	116865	10.000	ug/L	0.00
Standard Area 1 = 123694			Recovery =	94.48%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.102	113	89269	10.274	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.74%		
43) 1,2-Dichloroethane-d4	5.612	65	85288	10.277	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.77%		
60) Toluene-d8	7.576	98	258719	10.251	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.51%		
83) 4-Bromofluorobenzene	10.909	95	82656	10.374	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	103.74%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	d	
3) Chloromethane	0.000		0	N.D.	d	
4) Vinyl chloride	1.870	62	1728	0.206	ug/L	70
5) Bromomethane	0.000		0	N.D.	d	
6) Chloroethane	0.000		0	N.D.	d	
7) Trichlorofluoromethane	0.000		0	N.D.	d	
8) Ethyl ether	0.000		0	N.D.	d	
10) 1,1-Dichloroethene	0.000		0	N.D.	d	
11) Carbon disulfide	0.000		0	N.D.	d	
12) Freon-113	0.000		0	N.D.	d	
14) Acrolein	0.000		0	N.D.	d	
15) Methylene chloride	0.000		0	N.D.	d	
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.	d	
19) Methyl acetate	0.000		0	N.D.	d	
20) Methyl tert-butyl ether	0.000		0	N.D.	d	
21) tert-Butyl alcohol	0.000		0	N.D.	d	
22) Diisopropyl ether	0.000		0	N.D.	d	
23) 1,1-Dichloroethane	0.000		0	N.D.	d	
24) Halothane	0.000		0	N.D.	d	
25) Acrylonitrile	0.000		0	N.D.	d	

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A04.d
 Acq On : 11 Jun 2025 4:08 am
 Operator : VOA108:PID
 Sample : I8260STD0.19PPB
 Misc : WG2077605,ICAL (Sig #1); WG,ICAL22328 (Sig #2)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 11 11:02:42 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250611AICAL\V08250611A10.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	0.000		0	N.D.	d	
27) Vinyl acetate	0.000		0	N.D.	d	
28) cis-1,2-Dichloroethene	0.000		0	N.D.	d	
29) 2,2-Dichloropropane	0.000		0	N.D.	d	
30) Bromochloromethane	0.000		0	N.D.	d	
31) Cyclohexane	0.000		0	N.D.	d	
32) Chloroform	0.000		0	N.D.	d	
33) Ethyl acetate	0.000		0	N.D.	d	
34) Carbon tetrachloride	5.056	117	1830M4	0.162	ug/L	
35) Tetrahydrofuran	0.000		0	N.D.	d	
37) 1,1,1-Trichloroethane	0.000		0	N.D.	d	
39) 2-Butanone	0.000		0	N.D.	d	
40) 1,1-Dichloropropene	0.000		0	N.D.	d	
41) Benzene	5.489	78	4814	0.176	ug/L #	81
42) tert-Amyl methyl ether	0.000		0	N.D.	d	
44) 1,2-Dichloroethane	5.701	62	1826	0.215	ug/L #	74
47) Methyl cyclohexane	0.000		0	N.D.	d	
48) Trichloroethene	6.084	95	1480	0.196	ug/L #	79
50) Dibromomethane	0.000		0	N.D.	d	
51) 1,2-Dichloropropane	0.000		0	N.D.	d	
53) 2-Chloroethyl vinyl ether	0.000		0	N.D.	d	
54) Bromodichloromethane	0.000		0	N.D.	d	
57) 1,4-Dioxane	0.000		0	N.D.	d	
58) cis-1,3-Dichloropropene	7.384	75	1352	0.138	ug/L #	27
61) Toluene	0.000		0	N.D.	d	
62) 4-Methyl-2-pentanone	0.000		0	N.D.	d	
63) Tetrachloroethene	8.082	166	1449	0.196	ug/L	81
65) trans-1,3-Dichloropropene	8.123	75	1263M1	0.161	ug/L	
67) Ethyl methacrylate	0.000		0	N.D.	d	
68) 1,1,2-Trichloroethane	0.000		0	N.D.	d	
69) Chlorodibromomethane	0.000		0	N.D.	d	
70) 1,3-Dichloropropane	0.000		0	N.D.	d	
71) 1,2-Dibromoethane	0.000		0	N.D.	d	
72) 2-Hexanone	0.000		0	N.D.	d	
73) Chlorobenzene	0.000		0	N.D.	d	
74) Ethylbenzene	0.000		0	N.D.	d	
75) 1,1,1,2-Tetrachloroethane	0.000		0	N.D.	d	
76) p/m Xylene	0.000		0	N.D.	d	
77) o Xylene	0.000		0	N.D.	d	
78) Styrene	0.000		0	N.D.	d	

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A04.d
 Acq On : 11 Jun 2025 4:08 am
 Operator : VOA108:PID
 Sample : I8260STD0.19PPB
 Misc : WG2077605,ICAL (Sig #1); WG,ICAL22328 (Sig #2)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 11 11:02:42 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250611AICAL\V08250611A10.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
80)	Bromoform	0.000		0	N.D.	d		
82)	Isopropylbenzene	0.000		0	N.D.	d		
84)	Bromobenzene	0.000		0	N.D.	d		
85)	n-Propylbenzene	0.000		0	N.D.	d		
86)	1,4-Dichlorobutane	0.000		0	N.D.	d		
87)	1,1,2,2-Tetrachloroethane	11.156	83	1043	0.178	ug/L	#	93
88)	4-Ethyltoluene	0.000		0	N.D.	d		
89)	2-Chlorotoluene	0.000		0	N.D.	d		
90)	1,3,5-Trimethylbenzene	0.000		0	N.D.	d		
91)	1,2,3-Trichloropropane	0.000		0	N.D.	d		
92)	trans-1,4-Dichloro-2-b...	0.000		0	N.D.	d		
93)	4-Chlorotoluene	0.000		0	N.D.	d		
94)	tert-Butylbenzene	0.000		0	N.D.	d		
97)	1,2,4-Trimethylbenzene	0.000		0	N.D.	d		
98)	sec-Butylbenzene	0.000		0	N.D.	d		
99)	p-Isopropyltoluene	0.000		0	N.D.	d		
100)	1,3-Dichlorobenzene	0.000		0	N.D.	d		
101)	1,4-Dichlorobenzene	0.000		0	N.D.	d		
102)	p-Diethylbenzene	0.000		0	N.D.	d		
103)	n-Butylbenzene	0.000		0	N.D.	d		
104)	1,2-Dichlorobenzene	0.000		0	N.D.	d		
105)	1,2,4,5-Tetramethylben...	0.000		0	N.D.	d		
106)	1,2-Dibromo-3-chloropr...	0.000		0	N.D.	d		
107)	1,3,5-Trichlorobenzene	0.000		0	N.D.	d		
108)	Hexachlorobutadiene	0.000		0	N.D.	d		
109)	1,2,4-Trichlorobenzene	0.000		0	N.D.	d		
110)	Naphthalene	0.000		0	N.D.	d		
111)	1,2,3-Trichlorobenzene	0.000		0	N.D.	d		

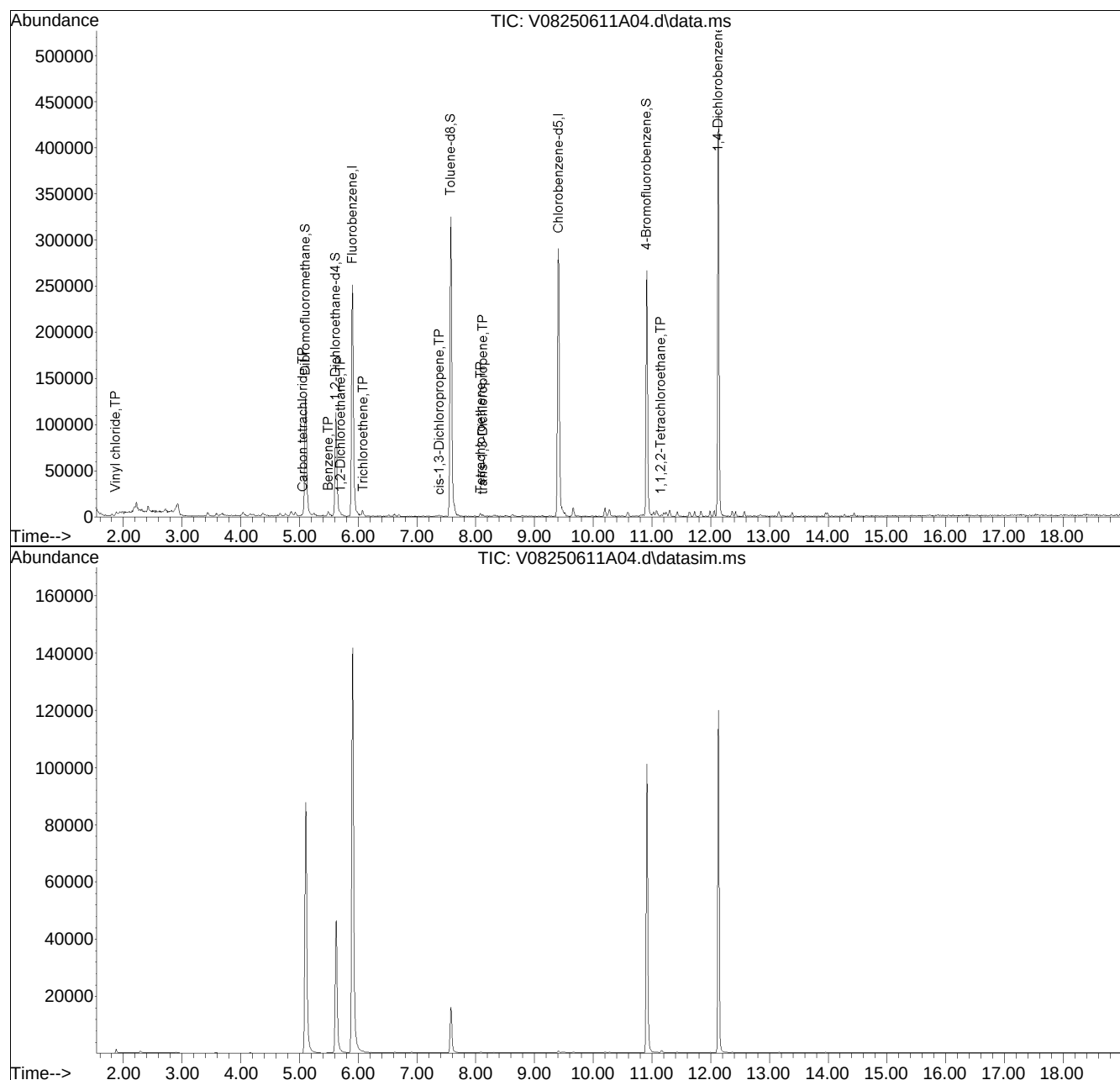
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A04.d
 Acq On : 11 Jun 2025 4:08 am
 Operator : VOA108:PID
 Sample : I8260STD0.19PPB
 Misc : WG2077605,ICAL (Sig #1); WG,ICAL22328 (Sig #2)
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 11 11:02:42 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

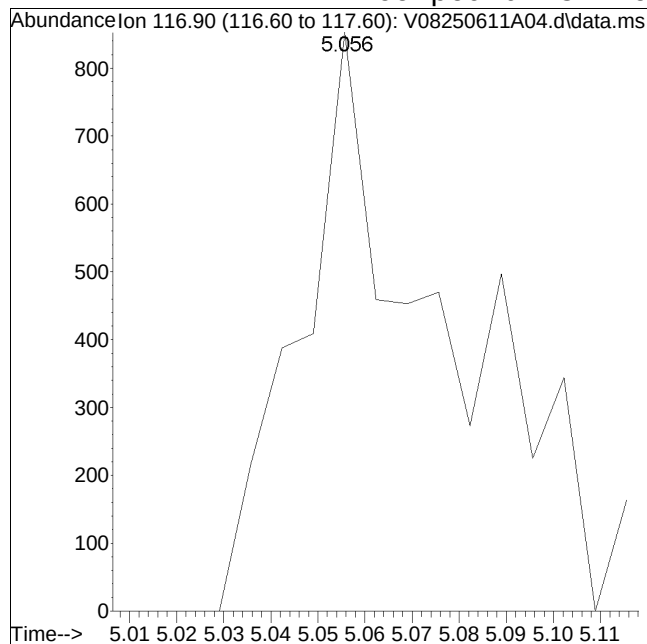
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane



Manual Integration Report

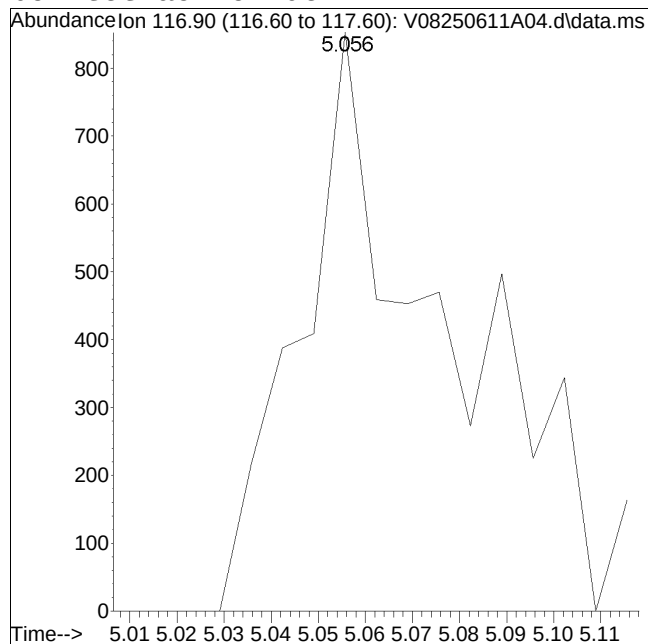
Data Path : K:\V0A108\2025\250611AICALQ Method : V108_250611A_8260.m
Data File : V08250611A04.d Operator : V0A108:PID
Date Inj'd : 6/11/2025 4:08 am Instrument : V0A 108
Sample : I8260STD0.19PPB Quant Date : 6/11/2025 11:02 am

Compound #34: Carbon tetrachloride



Original Peak Response = 1830

M4 = Poor automated baseline construction.

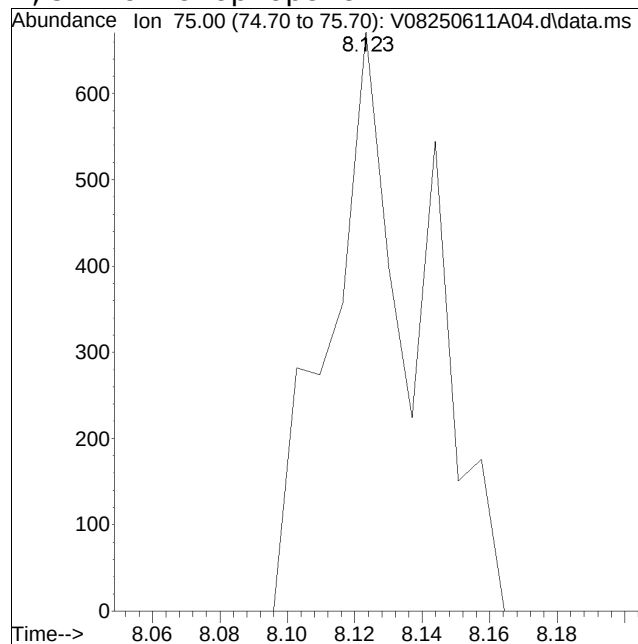
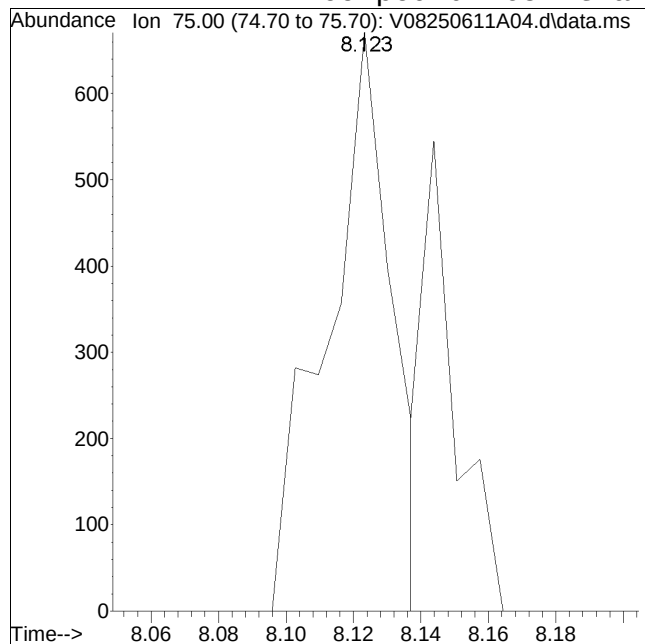


Manual Peak Response = 1830 M4

Manual Integration Report

Data Path : K:\V0A108\2025\250611AICALQMethod : V108_250611A_8260.m
Data File : V08250611A04.dOperator : V0A108:PID
Date Inj'd : 6/11/2025 4:08 amInstrument : V0A 108
Sample : I8260STD0.19PPBQuant Date : 6/11/2025 11:02 am

Compound #65: trans-1,3-Dichloropropene



Original Peak Response = 905

Manual Peak Response = 1263 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A06.d
 Acq On : 11 Jun 2025 4:52 am
 Operator : VOA108:PID
 Sample : I8260STD0.5PPB
 Misc : WG2077605,ICAL (Sig #1); WG,ICAL22328 (Sig #2)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 11 11:02:52 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250611AICAL\V08250611A10.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.899	96	263146	10.000	ug/L	0.00
Standard Area 1 = 281729			Recovery	=	93.40%	
59) Chlorobenzene-d5	9.409	117	195805	10.000	ug/L	0.00
Standard Area 1 = 211926			Recovery	=	92.39%	
79) 1,4-Dichlorobenzene-d4	12.130	152	105178	10.000	ug/L	0.00
Standard Area 1 = 123694			Recovery	=	85.03%	
System Monitoring Compounds						
36) Dibromofluoromethane	5.102	113	90078	10.626	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	106.26%	
43) 1,2-Dichloroethane-d4	5.611	65	82289	10.163	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	101.63%	
60) Toluene-d8	7.575	98	249883	10.442	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	104.42%	
83) 4-Bromofluorobenzene	10.909	95	78720	10.978	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	109.78%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.617	85	2241	0.340	ug/L	91
3) Chloromethane	1.796	50	3026	0.442	ug/L	94
4) Vinyl chloride	1.870	62	3338	0.409	ug/L	96
5) Bromomethane	2.169	94	2001	0.339	ug/L #	76
6) Chloroethane	2.295	64	2716	0.461	ug/L	81
7) Trichlorofluoromethane	2.422	101	7738	0.403	ug/L #	80
8) Ethyl ether	2.708	74	2763	0.542	ug/L #	78
10) 1,1-Dichloroethene	2.887	96	3742	0.422	ug/L	97
11) Carbon disulfide	2.927	76	10629	0.398	ug/L	95
12) Freon-113	2.927	101	3213	0.369	ug/L	98
14) Acrolein	3.206	56	170	0.290	ug/L	95
15) Methylene chloride	3.439	84	5286	0.715	ug/L	94
17) Acetone	3.479	43	1742	1.069	ug/L	98
18) trans-1,2-Dichloroethene	3.585	96	2717	0.409	ug/L	89
19) Methyl acetate	3.585	43	1476M6	0.466	ug/L	
20) Methyl tert-butyl ether	3.679	73	7094	0.442	ug/L #	85
21) tert-Butyl alcohol	3.778	59	669	2.133	ug/L #	50
22) Diisopropyl ether	4.038	45	8512	0.393	ug/L #	90
23) 1,1-Dichloroethane	4.151	63	4916	0.407	ug/L	96
24) Halothane	4.211	117	2050	0.373	ug/L #	78
25) Acrylonitrile	0.000		0	N.D.	d	

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A06.d
 Acq On : 11 Jun 2025 4:52 am
 Operator : VOA108:PID
 Sample : I8260STD0.5PPB
 Misc : WG2077605,ICAL (Sig #1); WG,ICAL22328 (Sig #2)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 11 11:02:52 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250611AICAL\V08250611A10.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	4.384	59	6545	0.384	ug/L	91
27) Vinyl acetate	4.397	43	4418	0.354	ug/L #	84
28) cis-1,2-Dichloroethene	4.663	96	3149	0.415	ug/L	85
29) 2,2-Dichloropropane	4.769	77	3607M6	0.397	ug/L	
30) Bromochloromethane	4.856	128	2110	0.481	ug/L	89
31) Cyclohexane	4.856	56	3269	0.332	ug/L	88
32) Chloroform	4.929	83	7277	0.537	ug/L	92
33) Ethyl acetate	5.055	43	2476	0.512	ug/L #	83
34) Carbon tetrachloride	5.049	117	3697	0.335	ug/L	98
35) Tetrahydrofuran	0.000		0	N.D.	d	
37) 1,1,1-Trichloroethane	5.128	97	4086	0.363	ug/L	93
39) 2-Butanone	0.000		0	N.D.	d	
40) 1,1-Dichloropropene	5.255	75	3227	0.380	ug/L	92
41) Benzene	5.488	78	11819	0.442	ug/L	97
42) tert-Amyl methyl ether	5.598	73	5865	0.389	ug/L	92
44) 1,2-Dichloroethane	5.687	62	4031	0.486	ug/L	97
47) Methyl cyclohexane	6.077	83	2980	0.316	ug/L	100
48) Trichloroethene	6.077	95	2863	0.388	ug/L #	92
50) Dibromomethane	6.508	93	1946	0.474	ug/L	92
51) 1,2-Dichloropropane	6.617	63	2667	0.419	ug/L #	89
53) 2-Chloroethyl vinyl ether	7.315	63	814	0.288	ug/L #	66
54) Bromodichloromethane	6.693	83	4261	0.449	ug/L #	98
57) 1,4-Dioxane	6.891	88	3240	89.554	ug/L #	93
58) cis-1,3-Dichloropropene	7.384	75	3877	0.406	ug/L #	79
61) Toluene	7.637	92	5959	0.399	ug/L	98
62) 4-Methyl-2-pentanone	8.095	58	389	0.318	ug/L #	62
63) Tetrachloroethene	8.088	166	2753	0.392	ug/L	91
65) trans-1,3-Dichloropropene	8.130	75	2728	0.367	ug/L #	72
67) Ethyl methacrylate	8.314	69	1420	0.271	ug/L #	77
68) 1,1,2-Trichloroethane	8.307	83	2237	0.532	ug/L	84
69) Chlorodibromomethane	8.513	129	3105	0.447	ug/L	86
70) 1,3-Dichloropropane	8.615	76	3604	0.448	ug/L	95
71) 1,2-Dibromoethane	8.780	107	1899	0.416	ug/L #	73
72) 2-Hexanone	0.000		0	N.D.	d	
73) Chlorobenzene	9.430	112	8506	0.456	ug/L	98
74) Ethylbenzene	9.471	91	10701M6	0.357	ug/L	
75) 1,1,1,2-Tetrachloroethane	9.512	131	2458	0.346	ug/L #	76
76) p/m Xylene	9.655	106	8013	0.629	ug/L	96
77) o Xylene	10.196	106	9037	0.698	ug/L	86
78) Styrene	10.264	104	12800	0.608	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A06.d
 Acq On : 11 Jun 2025 4:52 am
 Operator : VOA108:PID
 Sample : I8260STD0.5PPB
 Misc : WG2077605,ICAL (Sig #1); WG,ICAL22328 (Sig #2)
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 11 11:02:52 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250611AICAL\V08250611A10.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80)	Bromoform	10.299	173	1456	0.364	ug/L	95
82)	Isopropylbenzene	10.586	105	10941	0.394	ug/L	100
84)	Bromobenzene	11.025	156	4064	0.528	ug/L #	79
85)	n-Propylbenzene	11.073	91	12642	0.388	ug/L	100
86)	1,4-Dichlorobutane	11.087	55	3654	0.527	ug/L	92
87)	1,1,2,2-Tetrachloroethane	11.156	83	2996	0.569	ug/L	94
88)	4-Ethyltoluene	11.197	105	10371	0.383	ug/L	94
89)	2-Chlorotoluene	11.238	91	8280M6	0.426	ug/L	
90)	1,3,5-Trimethylbenzene	11.300	105	8891	0.362	ug/L #	85
91)	1,2,3-Trichloropropane	11.306	75	2235	0.513	ug/L #	83
92)	trans-1,4-Dichloro-2-b...	11.361	53	412	0.343	ug/L #	82
93)	4-Chlorotoluene	11.423	91	7952	0.413	ug/L	94
94)	tert-Butylbenzene	11.636	119	8094	0.389	ug/L	94
97)	1,2,4-Trimethylbenzene	11.718	105	8571	0.356	ug/L	97
98)	sec-Butylbenzene	11.835	105	10907	0.356	ug/L	100
99)	p-Isopropyltoluene	11.986	119	7962	0.300	ug/L #	89
100)	1,3-Dichlorobenzene	12.054	146	6907	0.445	ug/L	98
101)	1,4-Dichlorobenzene	12.143	146	7499	0.474	ug/L #	78
102)	p-Diethylbenzene	12.363	119	4943	0.317	ug/L	98
103)	n-Butylbenzene	12.418	91	8098	0.356	ug/L #	95
104)	1,2-Dichlorobenzene	12.569	146	6002	0.421	ug/L	97
105)	1,2,4,5-Tetramethylben...	13.159	119	8230	0.320	ug/L	97
106)	1,2-Dibromo-3-chloropr...	13.351	155	220M6	0.280	ug/L	
107)	1,3,5-Trichlorobenzene	13.385	180	4418	0.411	ug/L	92
108)	Hexachlorobutadiene	13.961	225	1867	0.400	ug/L	93
109)	1,2,4-Trichlorobenzene	13.982	180	4124	0.441	ug/L #	85
110)	Naphthalene	14.270	128	6921	0.394	ug/L	100
111)	1,2,3-Trichlorobenzene	14.441	180	3958	0.471	ug/L #	86

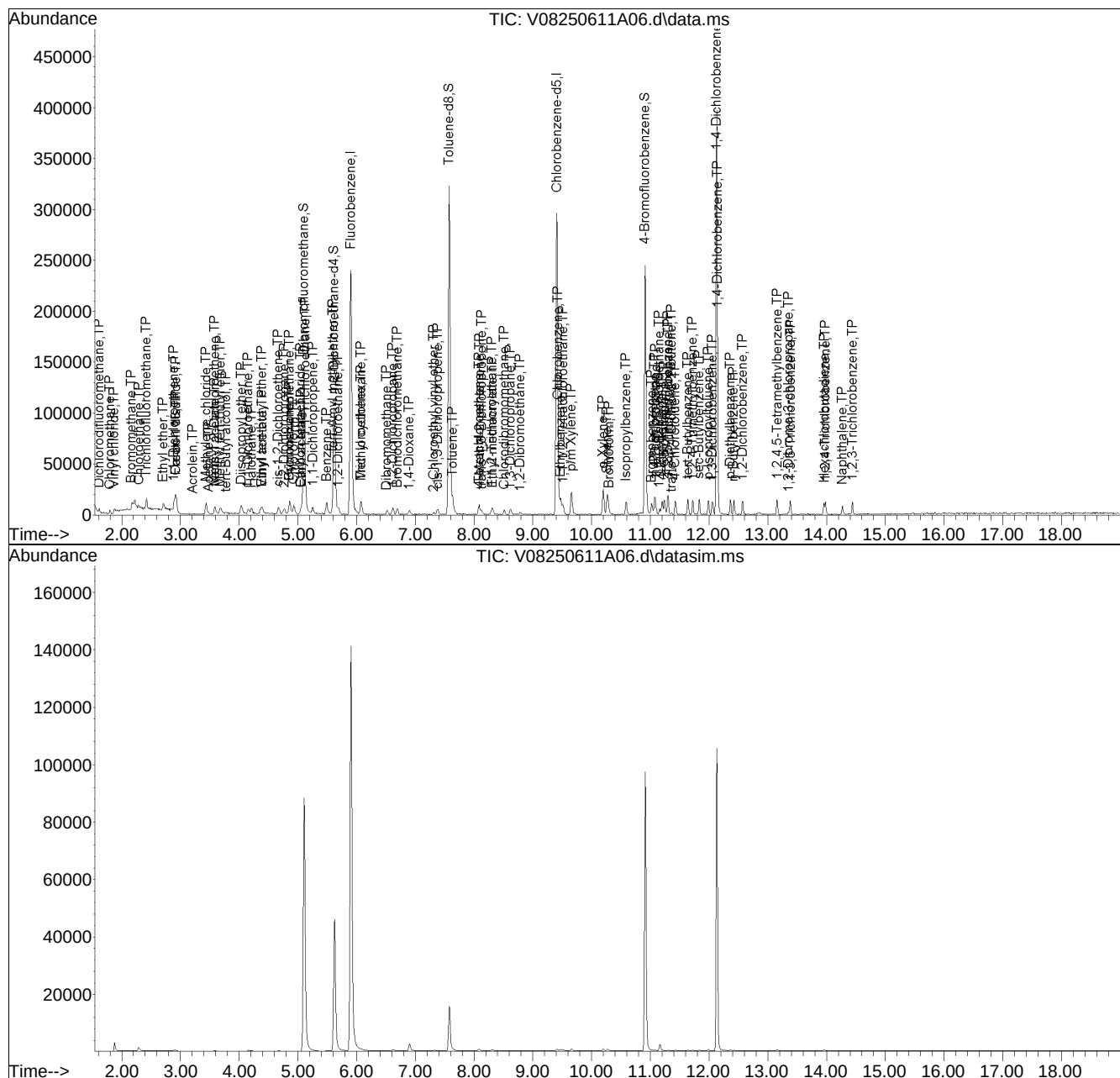
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
Data File : V08250611A06.d
Acq On : 11 Jun 2025 4:52 am
Operator : VOA108:PID
Sample : I8260STD0.5PPB
Misc : WG2077605,ICAL (Sig #1); WG,ICAL22328 (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 11 11:02:52 2025
Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 11 11:02:18 2025
Response via : Initial Calibration

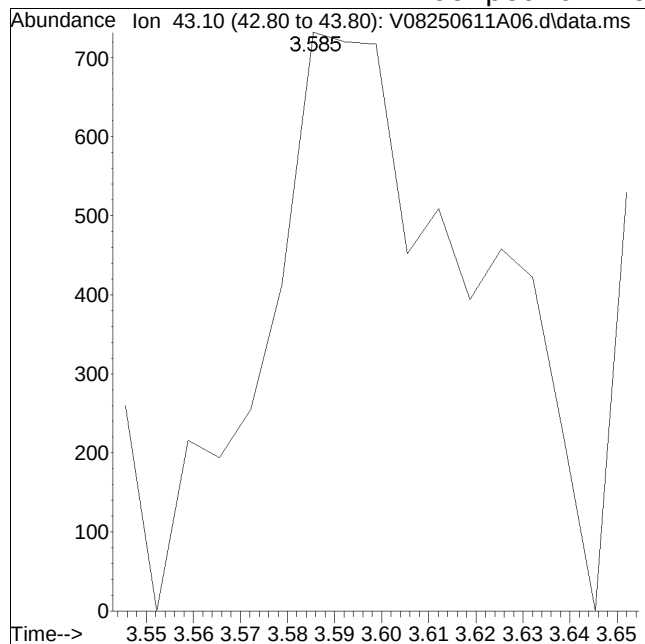
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane



Manual Integration Report

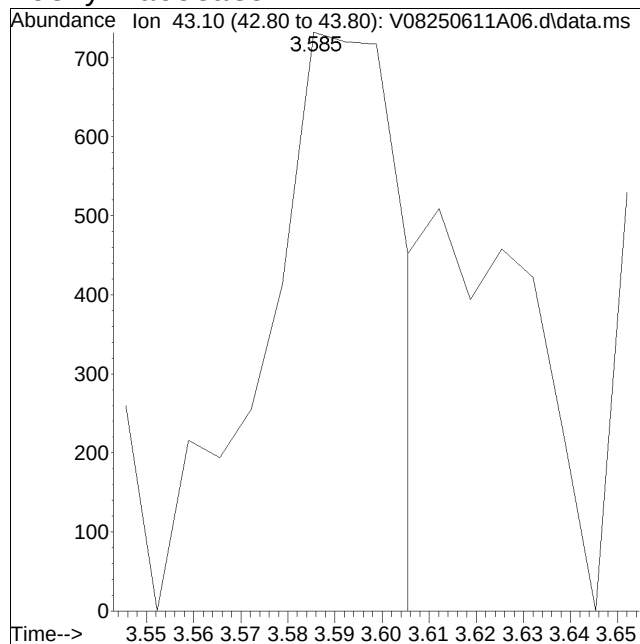
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Data File : V08250611A06.d Operator : VOA108:PID
Date Inj'd : 6/11/2025 4:52 am Instrument : VOA 108
Sample : I8260STD0.5PPB Quant Date : 6/11/2025 11:02 am

Compound #19: Methyl acetate



Original Peak Response = 2275

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

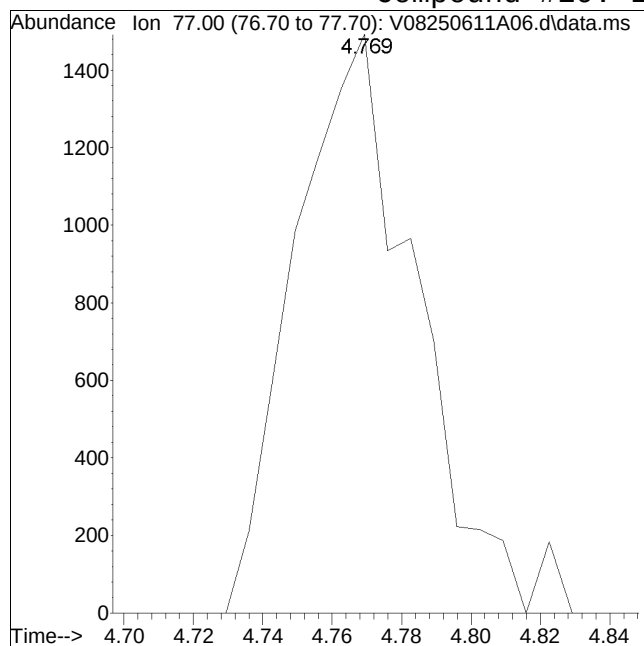


Manual Peak Response = 1476 M6

Manual Integration Report

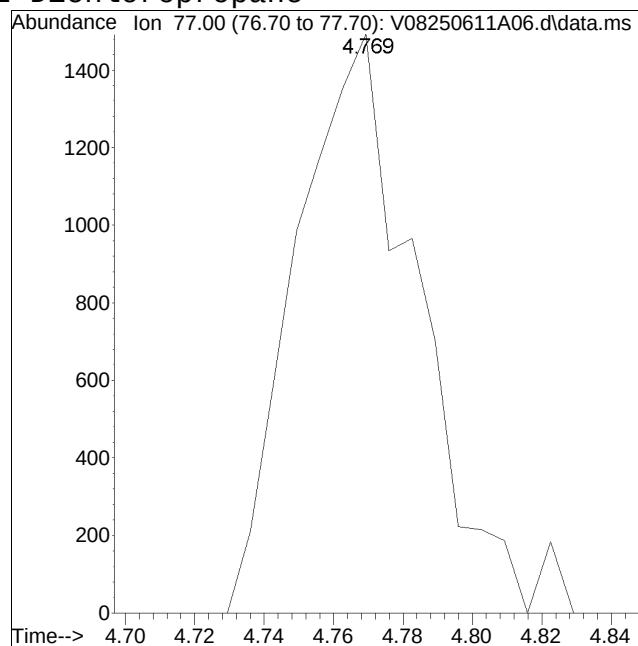
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Data File : V08250611A06.d Operator : V0A108:PID
Date Inj'd : 6/11/2025 4:52 am Instrument : V0A 108
Sample : I8260STD0.5PPB Quant Date : 6/11/2025 11:02 am

Compound #29: 2,2-Dichloropropane



Original Peak Response = 3680

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



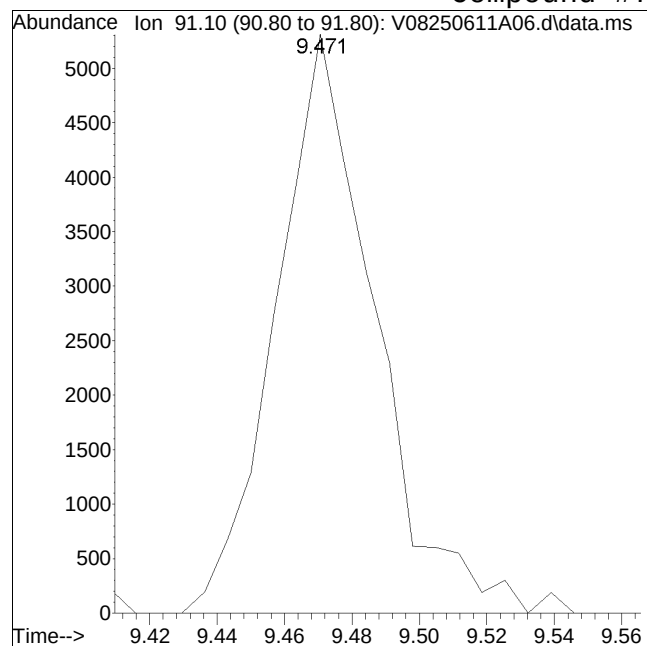
Manual Peak Response = 3607 M6

Manual Integration Report

Data Path : K:\VOA108\2025\250611AICALQ
Data File : V08250611A06.d
Date Inj'd : 6/11/2025 4:52 am
Sample : I8260STD0.5PPB

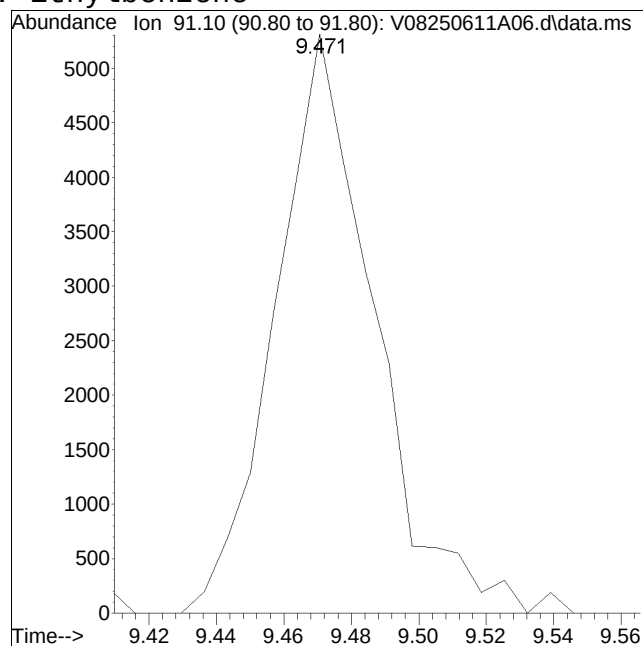
Method : V108_250611A_8260.m
Operator : VOA108:PID
Instrument : VOA 108
Quant Date : 6/11/2025 11:02 am

Compound #74: Ethylbenzene



Original Peak Response = 10780

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

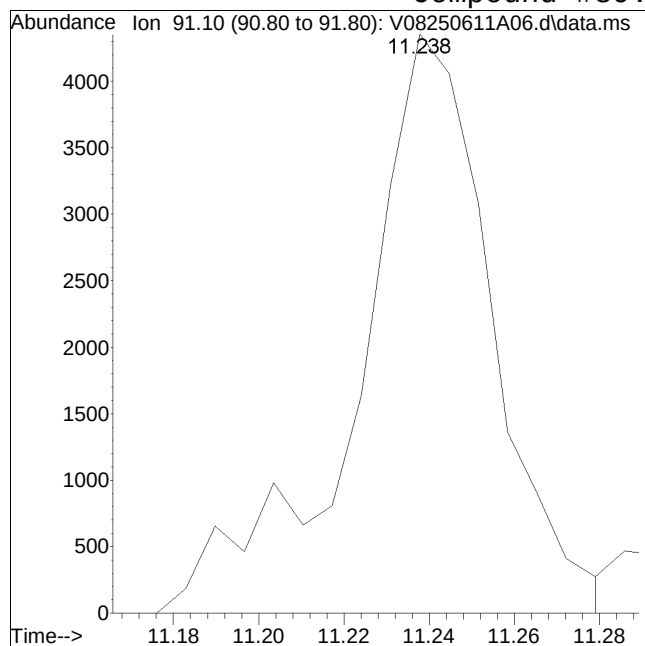


Manual Peak Response = 10701 M6

Manual Integration Report

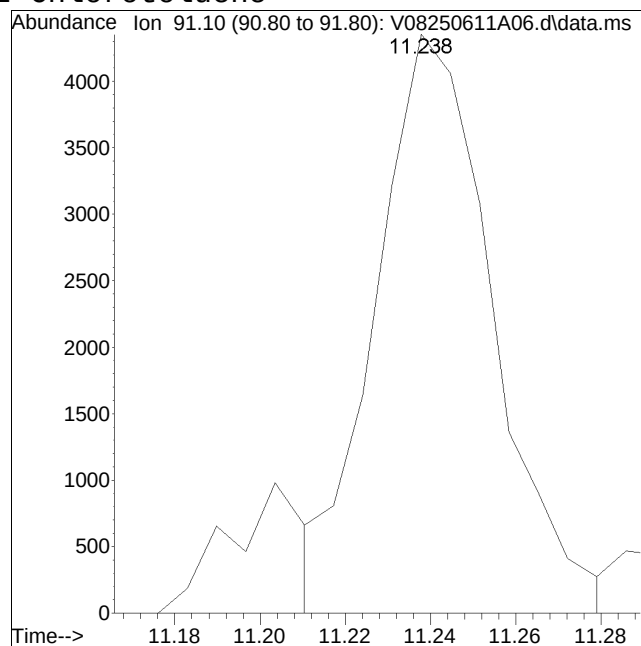
Data Path : K:\VOA108\2025\250611AICAL : V108_250611A_8260.m
Data File : V08250611A06.d Operator : VOA108:PID
Date Inj'd : 6/11/2025 4:52 am Instrument : VOA 108
Sample : I8260STD0.5PPB Quant Date : 6/11/2025 11:02 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 9491

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

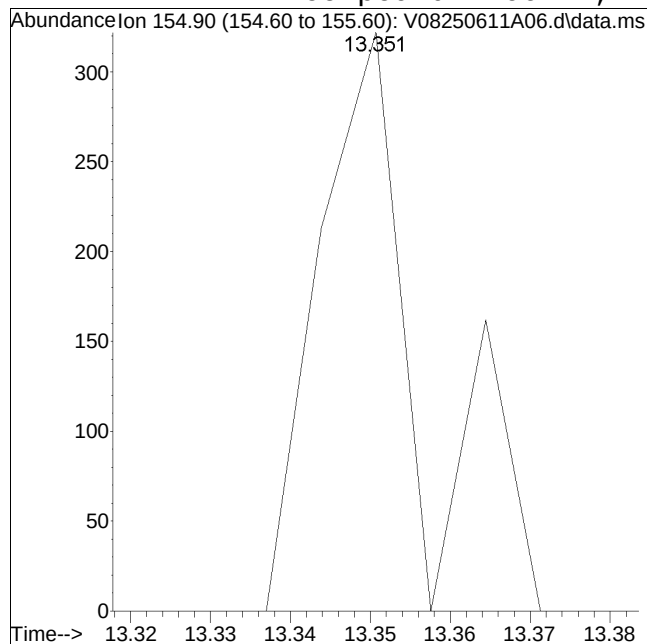


Manual Peak Response = 8280 M6

Manual Integration Report

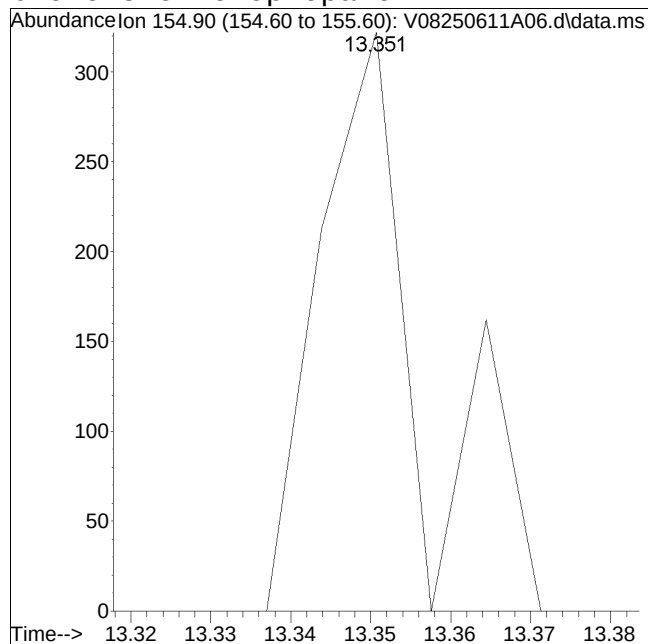
Data Path : K:\V0A108\2025\250611AICALQ Method : V108_250611A_8260.m
Data File : V08250611A06.d Operator : V0A108:PID
Date Inj'd : 6/11/2025 4:52 am Instrument : V0A 108
Sample : I8260STD0.5PPB Quant Date : 6/11/2025 11:02 am

Compound #106: 1,2-Dibromo-3-chloropropane



Original Peak Response = 287

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 220 M6

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A08.d
 Acq On : 11 Jun 2025 5:36 am
 Operator : VOA108:PID
 Sample : I8260STD2PPB
 Misc : WG2077605, ICAL (Sig #1); WG, ICAL22328 (Sig #2)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 11 11:02:58 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250611AICAL\V08250611A10.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.899	96	272892	10.000	ug/L	0.00
Standard Area 1 = 281729			Recovery	=	96.86%	
59) Chlorobenzene-d5	9.409	117	211197	10.000	ug/L	0.00
Standard Area 1 = 211926			Recovery	=	99.66%	
79) 1,4-Dichlorobenzene-d4	12.130	152	122245	10.000	ug/L	0.00
Standard Area 1 = 123694			Recovery	=	98.83%	
System Monitoring Compounds						
36) Dibromofluoromethane	5.102	113	92481	10.520	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	105.20%	
43) 1,2-Dichloroethane-d4	5.619	65	84872	10.108	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	101.08%	
60) Toluene-d8	7.576	98	267790	10.375	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	103.75%	
83) 4-Bromofluorobenzene	10.909	95	88466	10.615	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	106.15%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.617	85	14651	2.144	ug/L	98
3) Chloromethane	1.797	50	15674	2.206	ug/L	99
4) Vinyl chloride	1.877	62	18985	2.240	ug/L	94
5) Bromomethane	2.176	94	12320	2.015	ug/L	97
6) Chloroethane	2.282	64	15093	2.471	ug/L	91
7) Trichlorofluoromethane	2.422	101	42830	2.151	ug/L	95
8) Ethyl ether	2.715	74	11483	2.172	ug/L	94
10) 1,1-Dichloroethene	2.894	96	20345	2.210	ug/L	96
11) Carbon disulfide	2.927	76	62838	2.268	ug/L	97
12) Freon-113	2.934	101	19468	2.155	ug/L	92
14) Acrolein	3.200	56	926	1.521	ug/L #	70
15) Methylene chloride	3.439	84	15761	2.055	ug/L	91
17) Acetone	3.473	43	3668	2.171	ug/L #	78
18) trans-1,2-Dichloroethene	3.592	96	14398	2.092	ug/L	97
19) Methyl acetate	3.592	43	7636	2.324	ug/L	95
20) Methyl tert-butyl ether	3.679	73	32973	1.983	ug/L	97
21) tert-Butyl alcohol	3.779	59	3647	11.211	ug/L #	87
22) Diisopropyl ether	4.031	45	42814	1.904	ug/L	99
23) 1,1-Dichloroethane	4.158	63	27646	2.206	ug/L	98
24) Halothane	4.211	117	11796	2.072	ug/L	100
25) Acrylonitrile	4.204	53	3224	2.076	ug/L	90

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A08.d
 Acq On : 11 Jun 2025 5:36 am
 Operator : VOA108:PID
 Sample : I8260STD2PPB
 Misc : WG2077605, ICAL (Sig #1); WG, ICAL22328 (Sig #2)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 11 11:02:58 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250611AICAL\V08250611A10.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	4.377	59	32395	1.834	ug/L	96
27) Vinyl acetate	4.390	43	22567	1.744	ug/L	97
28) cis-1,2-Dichloroethene	4.663	96	15964	2.027	ug/L	94
29) 2,2-Dichloropropane	4.763	77	18299	1.941	ug/L	91
30) Bromochloromethane	4.863	128	9304	2.044	ug/L	96
31) Cyclohexane	4.863	56	19187	1.879	ug/L	100
32) Chloroform	4.929	83	31225	2.224	ug/L	97
33) Ethyl acetate	5.036	43	9300	1.854	ug/L #	89
34) Carbon tetrachloride	5.062	117	26020	2.276	ug/L	91
35) Tetrahydrofuran	5.089	42	3299	2.101	ug/L	93
37) 1,1,1-Trichloroethane	5.122	97	24322	2.082	ug/L	96
39) 2-Butanone	5.235	43	4742	2.315	ug/L #	79
40) 1,1-Dichloropropene	5.248	75	17798	2.023	ug/L	97
41) Benzene	5.489	78	57088	2.057	ug/L	99
42) tert-Amyl methyl ether	5.605	73	27941	1.788	ug/L	97
44) 1,2-Dichloroethane	5.687	62	17710	2.059	ug/L	97
47) Methyl cyclohexane	6.064	83	16788	1.714	ug/L	95
48) Trichloroethene	6.084	95	13672	1.788	ug/L	95
50) Dibromomethane	6.515	93	8512	1.999	ug/L	94
51) 1,2-Dichloropropane	6.611	63	12985	1.968	ug/L	92
53) 2-Chloroethyl vinyl ether	7.309	63	5129	1.748	ug/L	93
54) Bromodichloromethane	6.686	83	18622	1.894	ug/L	99
57) 1,4-Dioxane	6.898	88	15365	409.525	ug/L	98
58) cis-1,3-Dichloropropene	7.377	75	18031	1.822	ug/L	91
61) Toluene	7.637	92	32941	2.045	ug/L	90
62) 4-Methyl-2-pentanone	8.068	58	2290	1.734	ug/L #	83
63) Tetrachloroethene	8.082	166	14139	1.866	ug/L	93
65) trans-1,3-Dichloropropene	8.116	75	14476	1.808	ug/L	100
67) Ethyl methacrylate	8.308	69	8891	1.576	ug/L	83
68) 1,1,2-Trichloroethane	8.294	83	9027	1.991	ug/L	97
69) Chlorodibromomethane	8.506	129	13123	1.751	ug/L	95
70) 1,3-Dichloropropane	8.616	76	18190	2.096	ug/L	99
71) 1,2-Dibromoethane	8.780	107	9962	2.021	ug/L	99
72) 2-Hexanone	9.081	43	4624	1.670	ug/L #	86
73) Chlorobenzene	9.423	112	38319	1.903	ug/L	95
74) Ethylbenzene	9.464	91	58568	1.813	ug/L	99
75) 1,1,1,2-Tetrachloroethane	9.519	131	13621	1.776	ug/L	94
76) p/m Xylene	9.656	106	47018	3.424	ug/L	98
77) o Xylene	10.196	106	46693	3.346	ug/L	96
78) Styrene	10.265	104	71168	3.134	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A08.d
 Acq On : 11 Jun 2025 5:36 am
 Operator : VOA108:PID
 Sample : I8260STD2PPB
 Misc : WG2077605,ICAL (Sig #1); WG,ICAL22328 (Sig #2)
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 11 11:02:58 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250611AICAL\V08250611A10.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80)	Bromoform	10.292	173	7494	1.612	ug/L	89
82)	Isopropylbenzene	10.587	105	60173	1.862	ug/L	97
84)	Bromobenzene	11.026	156	17658	1.976	ug/L	99
85)	n-Propylbenzene	11.074	91	70339	1.856	ug/L	99
86)	1,4-Dichlorobutane	11.087	55	16076	1.996	ug/L	97
87)	1,1,2,2-Tetrachloroethane	11.156	83	13515	2.210	ug/L	97
88)	4-Ethyltoluene	11.197	105	58525	1.861	ug/L	97
89)	2-Chlorotoluene	11.238	91	42924M6	1.901	ug/L	
90)	1,3,5-Trimethylbenzene	11.300	105	49395	1.728	ug/L	99
91)	1,2,3-Trichloropropane	11.300	75	9842	1.945	ug/L	99
92)	trans-1,4-Dichloro-2-b...	11.348	53	3192	2.286	ug/L #	74
93)	4-Chlorotoluene	11.424	91	42575	1.901	ug/L	95
94)	tert-Butylbenzene	11.643	119	44431	1.835	ug/L	98
97)	1,2,4-Trimethylbenzene	11.718	105	50150	1.793	ug/L	97
98)	sec-Butylbenzene	11.828	105	66427	1.867	ug/L	99
99)	p-Isopropyltoluene	11.986	119	53360	1.732	ug/L	99
100)	1,3-Dichlorobenzene	12.055	146	33999	1.884	ug/L	99
101)	1,4-Dichlorobenzene	12.151	146	35214	1.917	ug/L	94
102)	p-Diethylbenzene	12.363	119	30566	1.684	ug/L	99
103)	n-Butylbenzene	12.418	91	49557	1.873	ug/L	99
104)	1,2-Dichlorobenzene	12.569	146	32883	1.984	ug/L	99
105)	1,2,4,5-Tetramethylben...	13.152	119	45517	1.521	ug/L	98
106)	1,2-Dibromo-3-chloropr...	13.344	155	1605	1.760	ug/L	83
107)	1,3,5-Trichlorobenzene	13.385	180	22946	1.839	ug/L	97
108)	Hexachlorobutadiene	13.955	225	9296	1.713	ug/L	96
109)	1,2,4-Trichlorobenzene	13.975	180	18418	1.693	ug/L	95
110)	Naphthalene	14.270	128	34192	1.675	ug/L	100
111)	1,2,3-Trichlorobenzene	14.435	180	18657	1.911	ug/L	94

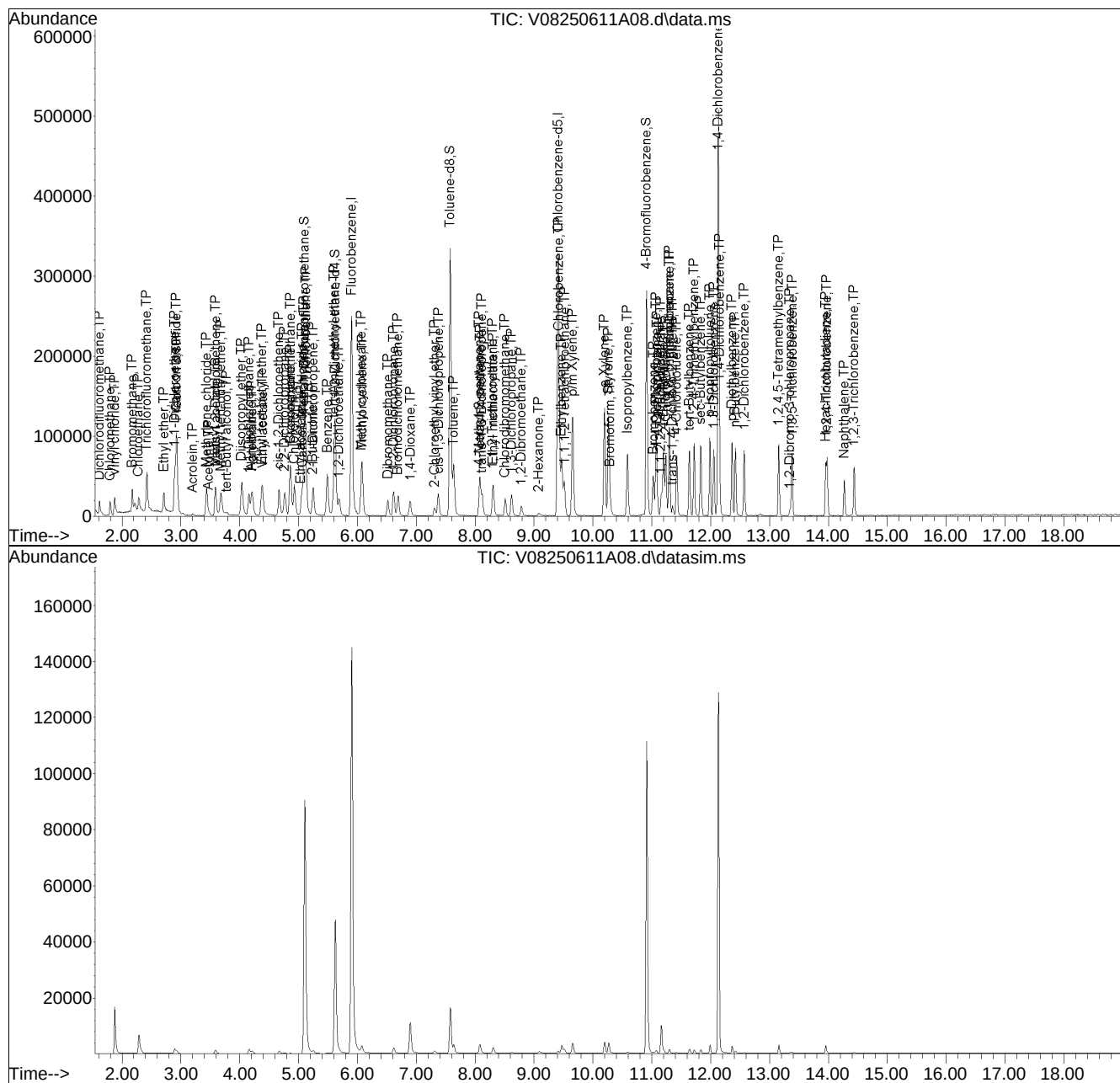
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
Data File : V08250611A08.d
Acq On : 11 Jun 2025 5:36 am
Operator : VOA108:PID
Sample : I8260STD2PPB
Misc : WG2077605,ICAL (Sig #1); WG,ICAL22328 (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 11 11:02:58 2025
Quant Method : K:\V0A108\2025\250611AICAL\V108_250611A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 11 11:02:18 2025
Response via : Initial Calibration

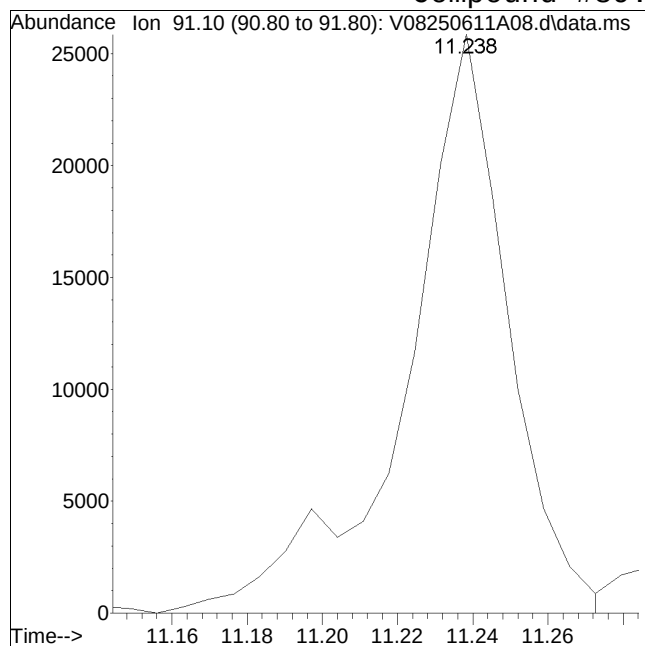
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane



Manual Integration Report

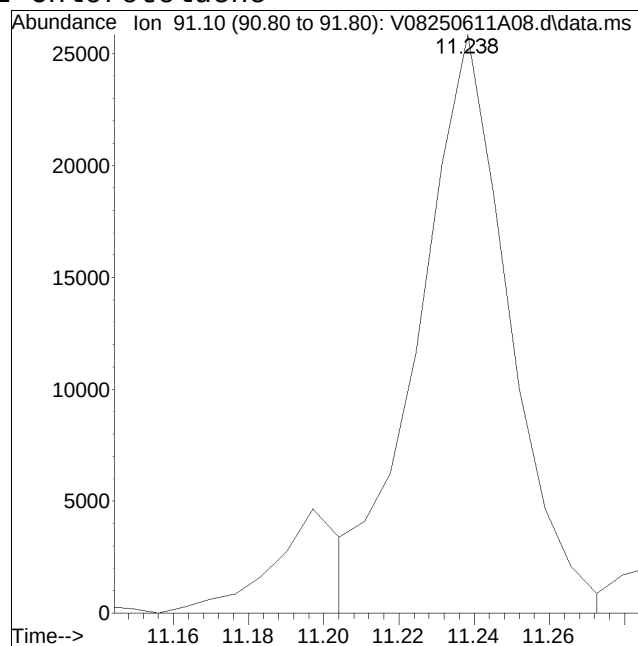
Data Path : K:\V0A108\2025\250611AICALQMethod : V108_250611A_8260.m
Data File : V08250611A08.dOperator : V0A108:PID
Date Inj'd : 6/11/2025 5:36 amInstrument : V0A 108
Sample : I8260STD2PPBQuant Date : 6/11/2025 11:02 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 48780

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 42924 M6

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A10.d
 Acq On : 11 Jun 2025 6:21 am
 Operator : VOA108:PID
 Sample : I8260STD10PPB
 Misc : WG2077605, ICAL (Sig #1); WG, ICAL22328 (Sig #2)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 11 11:03:05 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250611AICAL\V08250611A10.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.899	96	281729	10.000	ug/L	0.00
Standard Area 1 = 281729			Recovery	=	100.00%	
59) Chlorobenzene-d5	9.409	117	211926	10.000	ug/L	0.00
Standard Area 1 = 211926			Recovery	=	100.00%	
79) 1,4-Dichlorobenzene-d4	12.130	152	123694	10.000	ug/L	0.00
Standard Area 1 = 123694			Recovery	=	100.00%	
System Monitoring Compounds						
36) Dibromofluoromethane	5.102	113	88318	9.731	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	97.31%	
43) 1,2-Dichloroethane-d4	5.619	65	86269	9.952	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	99.52%	
60) Toluene-d8	7.575	98	272793	10.532	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	105.32%	
83) 4-Bromofluorobenzene	10.916	95	89530	10.617	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	106.17%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.617	85	77988	11.054	ug/L	100
3) Chloromethane	1.797	50	77333	10.544	ug/L	100
4) Vinyl chloride	1.876	62	100910	11.535	ug/L	100
5) Bromomethane	2.176	94	64768	10.258	ug/L	100
6) Chloroethane	2.282	64	70948	11.253	ug/L	100
7) Trichlorofluoromethane	2.422	101	233820	11.376	ug/L	100
8) Ethyl ether	2.708	74	55996	10.258	ug/L	100
10) 1,1-Dichloroethene	2.894	96	90679	9.542	ug/L	100
11) Carbon disulfide	2.927	76	247258	8.643	ug/L	100
12) Freon-113	2.934	101	75554	8.100	ug/L	100
14) Acrolein	3.206	56	7655	12.181	ug/L	100
15) Methylene chloride	3.439	84	78971	9.972	ug/L	100
17) Acetone	3.472	43	14735	8.448	ug/L	100
18) trans-1,2-Dichloroethene	3.586	96	71180	10.017	ug/L	100
19) Methyl acetate	3.592	43	33465	9.864	ug/L	100
20) Methyl tert-butyl ether	3.685	73	173815	10.126	ug/L	100
21) tert-Butyl alcohol	3.765	59	17465	52.004	ug/L	100
22) Diisopropyl ether	4.038	45	235429	10.142	ug/L	100
23) 1,1-Dichloroethane	4.157	63	137652	10.640	ug/L	100
24) Halothane	4.211	117	63289	10.769	ug/L	100
25) Acrylonitrile	4.197	53	18241	11.378	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A10.d
 Acq On : 11 Jun 2025 6:21 am
 Operator : VOA108:PID
 Sample : I8260STD10PPB
 Misc : WG2077605,ICAL (Sig #1); WG,ICAL22328 (Sig #2)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 11 11:03:05 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250611AICAL\V08250611A10.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	4.377	59	174135	9.550	ug/L	100
27) Vinyl acetate	4.384	43	128539	9.625	ug/L	100
28) cis-1,2-Dichloroethene	4.670	96	85917	10.568	ug/L	100
29) 2,2-Dichloropropane	4.763	77	97147	9.979	ug/L	100
30) Bromochloromethane	4.856	128	45919	9.772	ug/L	100
31) Cyclohexane	4.856	56	110917	10.520	ug/L	100
32) Chloroform	4.929	83	146667	10.117	ug/L	100
33) Ethyl acetate	5.035	43	52865	10.206	ug/L	100
34) Carbon tetrachloride	5.055	117	120303	10.193	ug/L	100
35) Tetrahydrofuran	5.082	42	17217M6	10.620	ug/L	
37) 1,1,1-Trichloroethane	5.122	97	129551	10.740	ug/L	100
39) 2-Butanone	5.222	43	20447	9.670	ug/L	100
40) 1,1-Dichloropropene	5.248	75	93771	10.327	ug/L	100
41) Benzene	5.489	78	301716	10.531	ug/L	100
42) tert-Amyl methyl ether	5.591	73	159785	9.904	ug/L	100
44) 1,2-Dichloroethane	5.687	62	90985	10.249	ug/L	100
47) Methyl cyclohexane	6.070	83	99895	9.879	ug/L	100
48) Trichloroethene	6.077	95	77818	9.858	ug/L	100
50) Dibromomethane	6.515	93	45998	10.462	ug/L	100
51) 1,2-Dichloropropane	6.611	63	70415	10.338	ug/L	100
53) 2-Chloroethyl vinyl ether	7.302	63	30553	10.087	ug/L	100
54) Bromodichloromethane	6.686	83	102132	10.063	ug/L	100
57) 1,4-Dioxane	6.891	88	20746	535.601	ug/L	100
58) cis-1,3-Dichloropropene	7.370	75	105840	10.358	ug/L	100
61) Toluene	7.630	92	172830	10.690	ug/L	100
62) 4-Methyl-2-pentanone	8.068	58	14032	10.589	ug/L	100
63) Tetrachloroethene	8.075	166	79652	10.473	ug/L	100
65) trans-1,3-Dichloropropene	8.116	75	88725	11.041	ug/L	100
67) Ethyl methacrylate	8.308	69	61154	10.800	ug/L	100
68) 1,1,2-Trichloroethane	8.294	83	48323	10.622	ug/L	100
69) Chlorodibromomethane	8.506	129	77358	10.289	ug/L	100
70) 1,3-Dichloropropane	8.616	76	96320	11.062	ug/L	100
71) 1,2-Dibromoethane	8.780	107	55853	11.291	ug/L	100
72) 2-Hexanone	9.067	43	27451	9.878	ug/L	100
73) Chlorobenzene	9.423	112	207705	10.278	ug/L	100
74) Ethylbenzene	9.471	91	341207	10.527	ug/L	100
75) 1,1,1,2-Tetrachloroethane	9.512	131	79560	10.339	ug/L	100
76) p/m Xylene	9.656	106	269786	19.580	ug/L	100
77) o Xylene	10.196	106	264653	18.899	ug/L	100
78) Styrene	10.265	104	436138	19.138	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A10.d
 Acq On : 11 Jun 2025 6:21 am
 Operator : VOA108:PID
 Sample : I8260STD10PPB
 Misc : WG2077605,ICAL (Sig #1); WG,ICAL22328 (Sig #2)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 11 11:03:05 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250611AICAL\V08250611A10.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80)	Bromoform	10.285	173	44809	9.524	ug/L	100
82)	Isopropylbenzene	10.586	105	335812	10.270	ug/L	100
84)	Bromobenzene	11.025	156	92107	10.184	ug/L	100
85)	n-Propylbenzene	11.067	91	403254	10.518	ug/L	100
86)	1,4-Dichlorobutane	11.087	55	87492	10.738	ug/L	100
87)	1,1,2,2-Tetrachloroethane	11.163	83	68374	11.051	ug/L	100
88)	4-Ethyltoluene	11.197	105	333517	10.483	ug/L	100
89)	2-Chlorotoluene	11.238	91	235906M6	10.328	ug/L	100
90)	1,3,5-Trimethylbenzene	11.293	105	291258	10.072	ug/L	100
91)	1,2,3-Trichloropropane	11.300	75	53136	10.376	ug/L	100
92)	trans-1,4-Dichloro-2-b...	11.348	53	15659	11.083	ug/L	100
93)	4-Chlorotoluene	11.423	91	236981	10.457	ug/L	100
94)	tert-Butylbenzene	11.636	119	247136	10.088	ug/L	100
97)	1,2,4-Trimethylbenzene	11.718	105	290779	10.275	ug/L	100
98)	sec-Butylbenzene	11.828	105	380362	10.566	ug/L	100
99)	p-Isopropyltoluene	11.986	119	326643	10.475	ug/L	100
100)	1,3-Dichlorobenzene	12.054	146	181807	9.958	ug/L	100
101)	1,4-Dichlorobenzene	12.144	146	183542	9.873	ug/L	100
102)	p-Diethylbenzene	12.363	119	187305	10.199	ug/L	100
103)	n-Butylbenzene	12.418	91	279091	10.424	ug/L	100
104)	1,2-Dichlorobenzene	12.569	146	173880	10.369	ug/L	100
105)	1,2,4,5-Tetramethylben...	13.159	119	303092	10.010	ug/L	100
106)	1,2-Dibromo-3-chloropr...	13.344	155	10602	11.489	ug/L	100
107)	1,3,5-Trichlorobenzene	13.378	180	126757	10.037	ug/L	100
108)	Hexachlorobutadiene	13.955	225	54258	9.879	ug/L	100
109)	1,2,4-Trichlorobenzene	13.975	180	110824	10.068	ug/L	100
110)	Naphthalene	14.270	128	217286	10.519	ug/L	100
111)	1,2,3-Trichlorobenzene	14.435	180	98778	9.998	ug/L	100

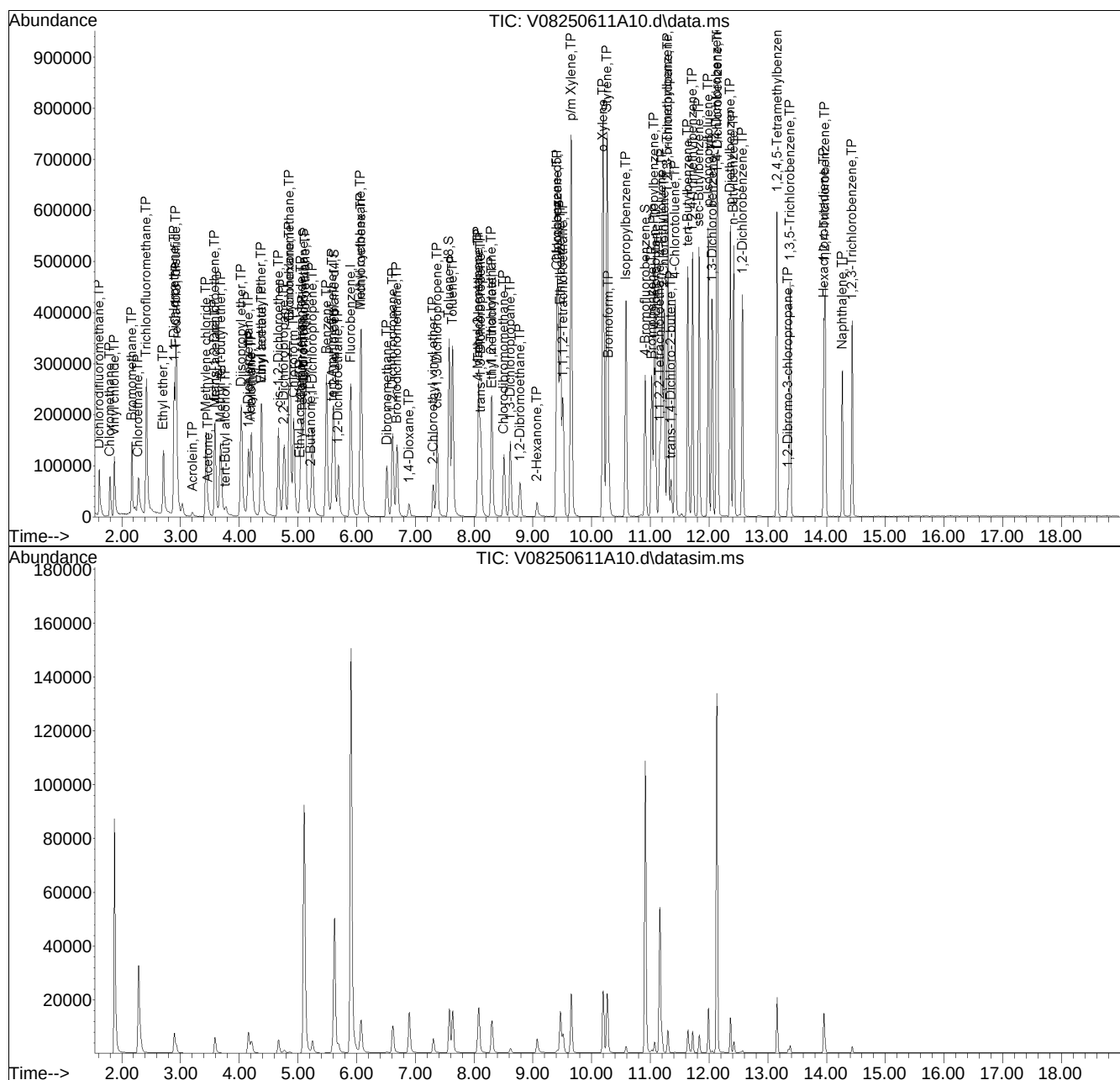
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A10.d
 Acq On : 11 Jun 2025 6:21 am
 Operator : VOA108:PID
 Sample : I8260STD10PPB
 Misc : WG2077605,ICAL (Sig #1); WG,ICAL22328 (Sig #2)
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 11 11:03:05 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

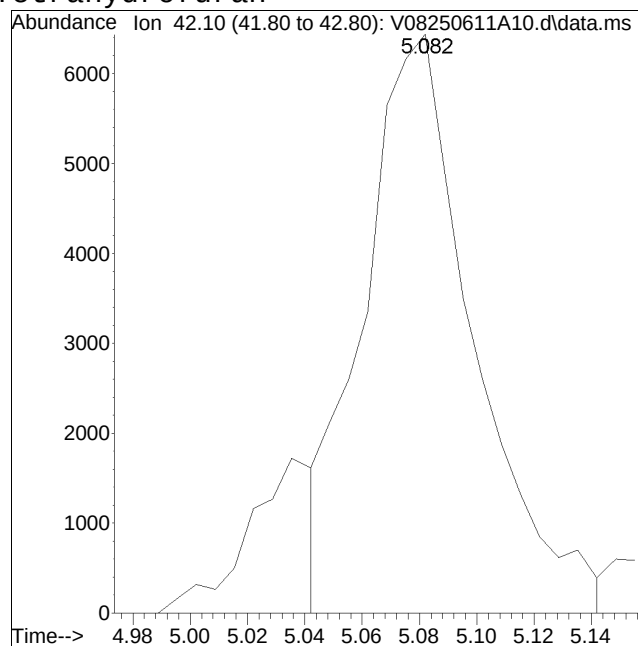
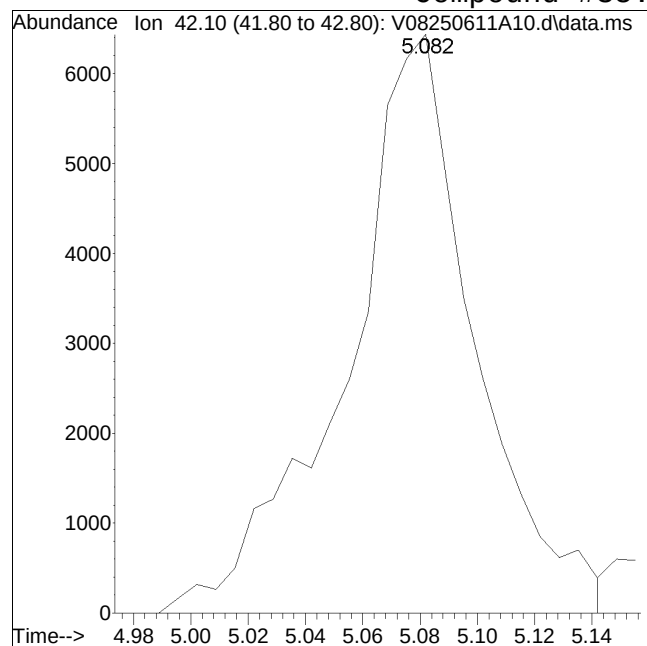


Manual Integration Report

Data Path : K:\V0A108\2025\250611AICALQ
Data File : V08250611A10.d
Date Inj'd : 6/11/2025 6:21 am
Sample : I8260STD10PPB

Method : V108_250611A_8260.m
Operator : V0A108:PID
Instrument : V0A 108
Quant Date : 6/11/2025 11:03 am

Compound #35: Tetrahydrofuran



Original Peak Response = 20015

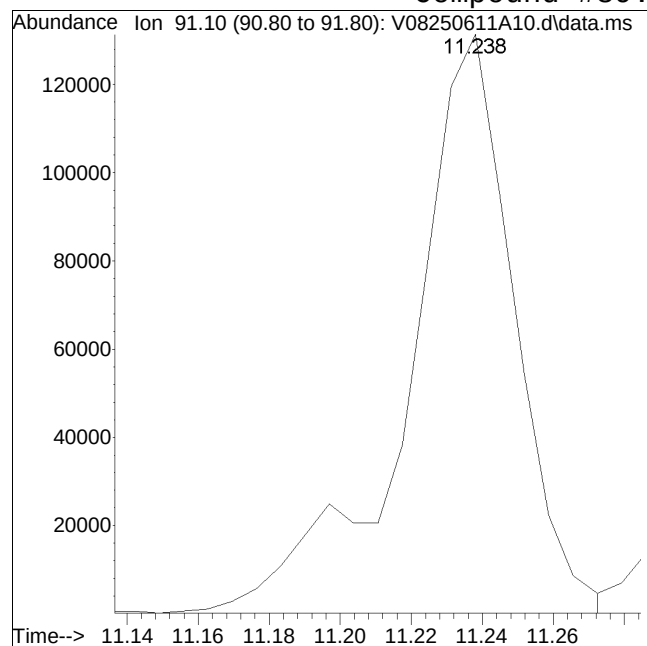
Manual Peak Response = 17217 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

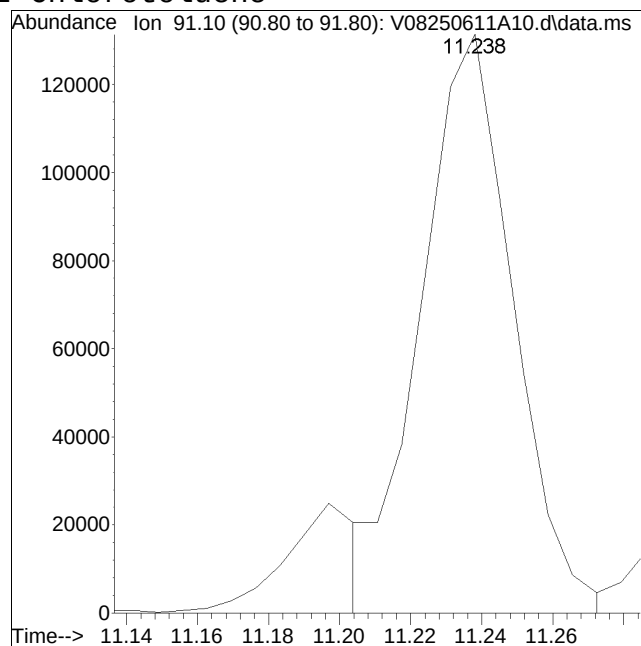
Data Path : K:\V0A108\2025\250611AICALQMethod : V108_250611A_8260.m
Data File : V08250611A10.dOperator : V0A108:PID
Date Inj'd : 6/11/2025 6:21 amInstrument : V0A 108
Sample : I8260STD10PPBQuant Date : 6/11/2025 11:03 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 269433

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 235906 M6

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A11.d
 Acq On : 11 Jun 2025 6:43 am
 Operator : VOA108:PID
 Sample : I8260STD30PPB
 Misc : WG2077605, ICAL (Sig #1); WG, ICAL22328 (Sig #2)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 11 11:03:12 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250611AICAL\V08250611A10.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.899	96	307286	10.000	ug/L	0.00
Standard Area 1 = 281729			Recovery	=	109.07%	
59) Chlorobenzene-d5	9.403	117	237122	10.000	ug/L	0.00
Standard Area 1 = 211926			Recovery	=	111.89%	
79) 1,4-Dichlorobenzene-d4	12.130	152	157540	10.000	ug/L	0.00
Standard Area 1 = 123694			Recovery	=	127.36%	
System Monitoring Compounds						
36) Dibromofluoromethane	5.102	113	97313	9.831	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	98.31%	
43) 1,2-Dichloroethane-d4	5.619	65	90924	9.616	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	96.16%	
60) Toluene-d8	7.576	98	300273	10.362	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	103.62%	
83) 4-Bromofluorobenzene	10.909	95	98981	9.216	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	92.16%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.617	85	229984	29.886	ug/L	99
3) Chloromethane	1.797	50	236698	29.589	ug/L	100
4) Vinyl chloride	1.877	62	279109	29.251	ug/L	96
5) Bromomethane	2.176	94	206203	29.944	ug/L	99
6) Chloroethane	2.282	64	208129	30.266	ug/L	99
7) Trichlorofluoromethane	2.422	101	667619	29.780	ug/L	98
8) Ethyl ether	2.708	74	179142	30.089	ug/L	95
10) 1,1-Dichloroethene	2.894	96	308089	29.722	ug/L	93
11) Carbon disulfide	2.928	76	873488	27.993	ug/L	98
12) Freon-113	2.928	101	280165	27.537	ug/L	98
14) Acrolein	3.200	56	23198	33.843	ug/L	94
15) Methylene chloride	3.433	84	231281	26.776	ug/L	97
17) Acetone	3.473	43	41455	21.789	ug/L	98
18) trans-1,2-Dichloroethene	3.586	96	231680	29.892	ug/L	96
19) Methyl acetate	3.586	43	108315	29.271	ug/L	98
20) Methyl tert-butyl ether	3.679	73	569397	30.413	ug/L	96
21) tert-Butyl alcohol	3.772	59	55690	152.031	ug/L #	90
22) Diisopropyl ether	4.032	45	795930	31.435	ug/L	97
23) 1,1-Dichloroethane	4.158	63	427309	30.282	ug/L	99
24) Halothane	4.204	117	193263	30.149	ug/L	99
25) Acrylonitrile	4.191	53	50580	28.926	ug/L #	80

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A11.d
 Acq On : 11 Jun 2025 6:43 am
 Operator : VOA108:PID
 Sample : I8260STD30PPB
 Misc : WG2077605,ICAL (Sig #1); WG,ICAL22328 (Sig #2)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 11 11:03:12 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250611AICAL\V08250611A10.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	4.371	59	615291	30.937	ug/L	98
27) Vinyl acetate	4.384	43	469537	32.234	ug/L	99
28) cis-1,2-Dichloroethene	4.663	96	276067	31.133	ug/L	98
29) 2,2-Dichloropropane	4.770	77	325826	30.686	ug/L	98
30) Bromochloromethane	4.856	128	148270	28.930	ug/L	97
31) Cyclohexane	4.863	56	353301	30.721	ug/L	98
32) Chloroform	4.929	83	464225	29.358	ug/L	99
33) Ethyl acetate	5.029	43	172730	30.575	ug/L	97
34) Carbon tetrachloride	5.062	117	396292	30.784	ug/L	99
35) Tetrahydrofuran	5.076	42	55011M6	31.111	ug/L	
37) 1,1,1-Trichloroethane	5.122	97	401134	30.489	ug/L	99
39) 2-Butanone	5.209	43	64576	28.001	ug/L	99
40) 1,1-Dichloropropene	5.242	75	304613	30.756	ug/L	98
41) Benzene	5.482	78	965790	30.905	ug/L	99
42) tert-Amyl methyl ether	5.598	73	545394	30.993	ug/L	97
44) 1,2-Dichloroethane	5.687	62	276968	28.603	ug/L	98
47) Methyl cyclohexane	6.071	83	324868	29.455	ug/L	98
48) Trichloroethene	6.077	95	248711	28.886	ug/L	96
50) Dibromomethane	6.508	93	141764	29.562	ug/L	98
51) 1,2-Dichloropropane	6.611	63	235086	31.645	ug/L	96
53) 2-Chloroethyl vinyl ether	7.302	63	108139	32.732	ug/L	96
54) Bromodichloromethane	6.686	83	337024	30.444	ug/L	99
57) 1,4-Dioxane	6.892	88	26163	619.275	ug/L	95
58) cis-1,3-Dichloropropene	7.364	75	364574	32.713	ug/L	98
61) Toluene	7.631	92	548215	30.305	ug/L	98
62) 4-Methyl-2-pentanone	8.062	58	50391	33.985	ug/L	89
63) Tetrachloroethene	8.075	166	256786	30.177	ug/L	98
65) trans-1,3-Dichloropropene	8.110	75	298777	33.229	ug/L	91
67) Ethyl methacrylate	8.301	69	222782	35.165	ug/L	93
68) 1,1,2-Trichloroethane	8.294	83	154871	30.424	ug/L	99
69) Chlorodibromomethane	8.506	129	265557	31.566	ug/L	99
70) 1,3-Dichloropropane	8.616	76	308953	31.712	ug/L	100
71) 1,2-Dibromoethane	8.780	107	172409	31.151	ug/L	98
72) 2-Hexanone	9.061	43	100807	32.419	ug/L	98
73) Chlorobenzene	9.423	112	673770	29.799	ug/L	97
74) Ethylbenzene	9.464	91	1095235	30.200	ug/L	99
75) 1,1,1,2-Tetrachloroethane	9.512	131	266911	30.999	ug/L	99
76) p/m Xylene	9.649	106	912764	59.205	ug/L	98
77) o Xylene	10.197	106	917686	58.569	ug/L	98
78) Styrene	10.265	104	1579199	61.933	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A11.d
 Acq On : 11 Jun 2025 6:43 am
 Operator : VOA108:PID
 Sample : I8260STD30PPB
 Misc : WG2077605,ICAL (Sig #1); WG,ICAL22328 (Sig #2)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 11 11:03:12 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250611AICAL\V08250611A10.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80)	Bromoform	10.286	173	178639	29.812	ug/L	98
82)	Isopropylbenzene	10.587	105	1218160	29.250	ug/L	98
84)	Bromobenzene	11.019	156	310468	26.953	ug/L	99
85)	n-Propylbenzene	11.067	91	1397055	28.610	ug/L	99
86)	1,4-Dichlorobutane	11.081	55	297163	28.636	ug/L	99
87)	1,1,2,2-Tetrachloroethane	11.156	83	227070	28.816	ug/L	96
88)	4-Ethyltoluene	11.197	105	1192617	29.432	ug/L	100
89)	2-Chlorotoluene	11.238	91	846560M6	29.099	ug/L	
90)	1,3,5-Trimethylbenzene	11.293	105	1070446	29.065	ug/L	100
91)	1,2,3-Trichloropropane	11.293	75	184582	28.300	ug/L	99
92)	trans-1,4-Dichloro-2-b...	11.348	53	54217	30.129	ug/L	97
93)	4-Chlorotoluene	11.424	91	853191	29.558	ug/L	99
94)	tert-Butylbenzene	11.636	119	912299	29.239	ug/L	99
97)	1,2,4-Trimethylbenzene	11.719	105	1069639	29.677	ug/L	100
98)	sec-Butylbenzene	11.828	105	1344242	29.320	ug/L	97
99)	p-Isopropyltoluene	11.986	119	1206111	30.370	ug/L	99
100)	1,3-Dichlorobenzene	12.048	146	682109	29.335	ug/L	100
101)	1,4-Dichlorobenzene	12.144	146	684368	28.903	ug/L	98
102)	p-Diethylbenzene	12.364	119	694671	29.700	ug/L	98
103)	n-Butylbenzene	12.418	91	1009136	29.592	ug/L	100
104)	1,2-Dichlorobenzene	12.569	146	626527	29.334	ug/L	98
105)	1,2,4,5-Tetramethylben...	13.159	119	1168335	30.297	ug/L	98
106)	1,2-Dibromo-3-chloropr...	13.345	155	39139	33.300	ug/L	99
107)	1,3,5-Trichlorobenzene	13.379	180	454058	28.230	ug/L	97
108)	Hexachlorobutadiene	13.955	225	178906	25.575	ug/L	97
109)	1,2,4-Trichlorobenzene	13.976	180	386173	27.545	ug/L	99
110)	Naphthalene	14.264	128	790459	30.047	ug/L	100
111)	1,2,3-Trichlorobenzene	14.435	180	348060	27.662	ug/L	98

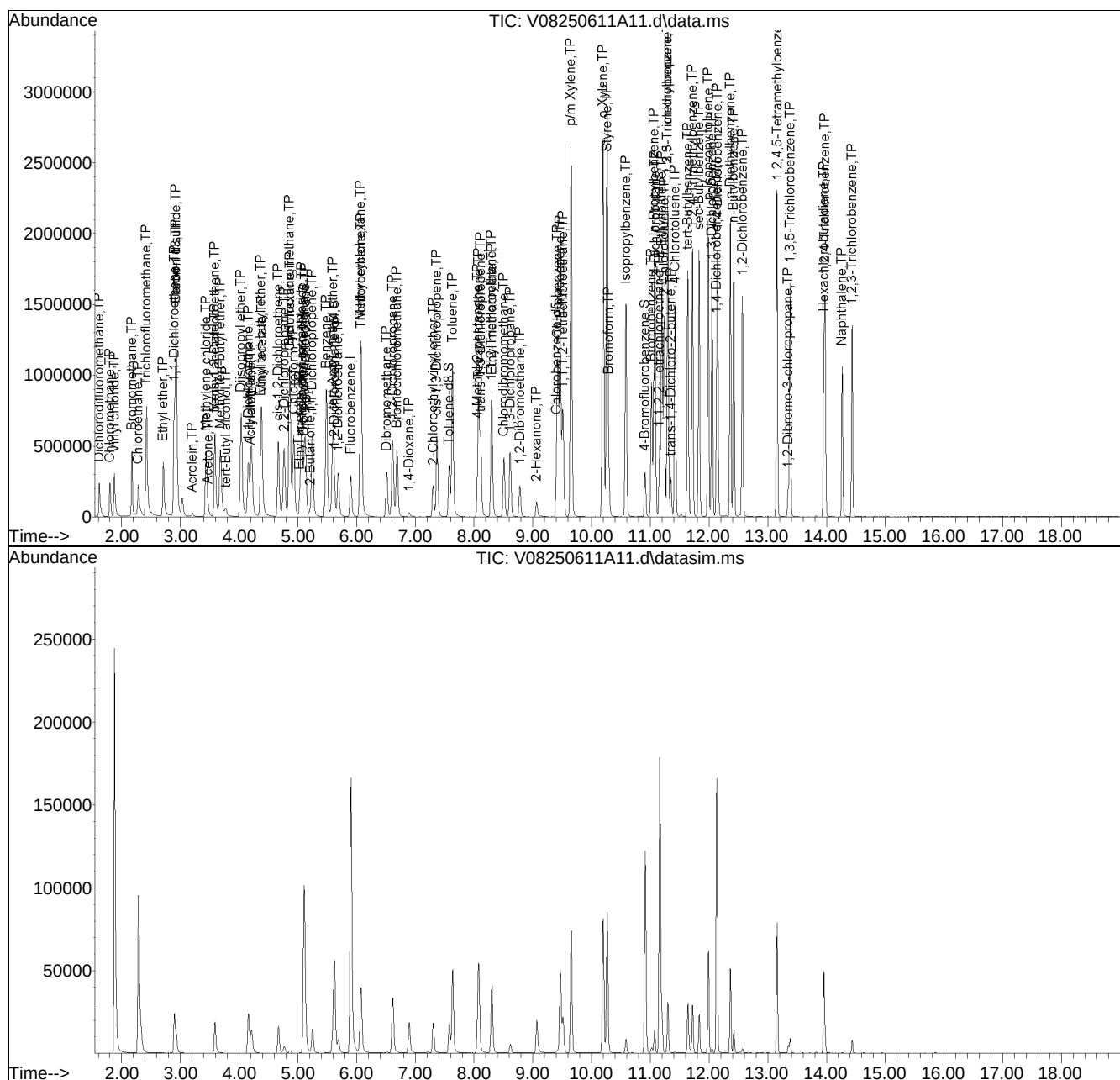
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A11.d
 Acq On : 11 Jun 2025 6:43 am
 Operator : VOA108:PID
 Sample : I8260STD30PPB
 Misc : WG2077605,ICAL (Sig #1); WG,ICAL22328 (Sig #2)
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 11 11:03:12 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

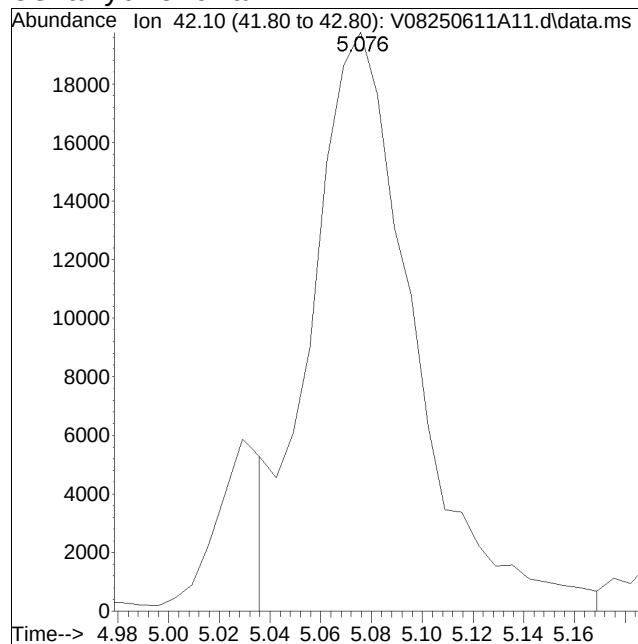
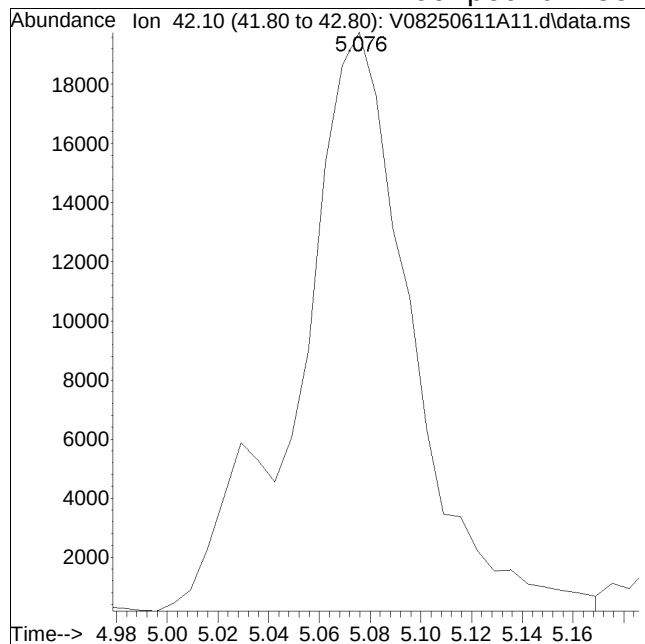
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane



Manual Integration Report

Data Path : K:\V0A108\2025\250611AICALQMethod : V108_250611A_8260.m
Data File : V08250611A11.d Operator : V0A108:PID
Date Inj'd : 6/11/2025 6:43 am Instrument : V0A 108
Sample : I8260STD30PPB Quant Date : 6/11/2025 11:03 am

Compound #35: Tetrahydrofuran

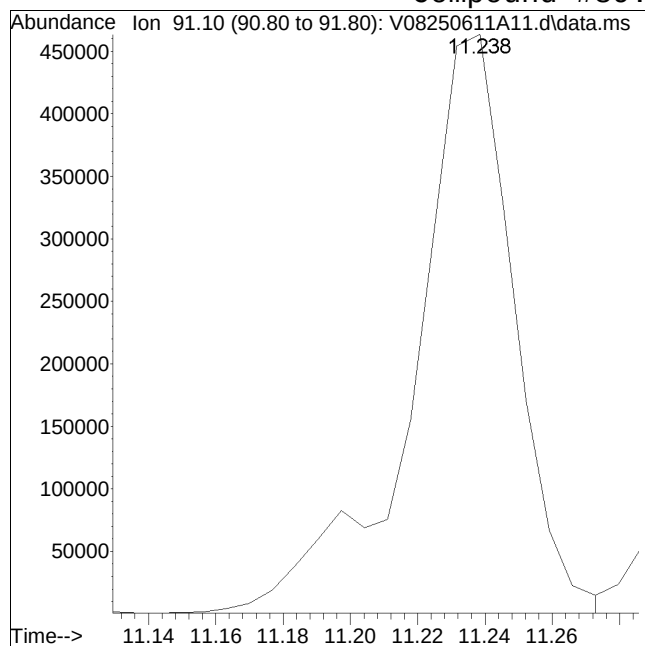


M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

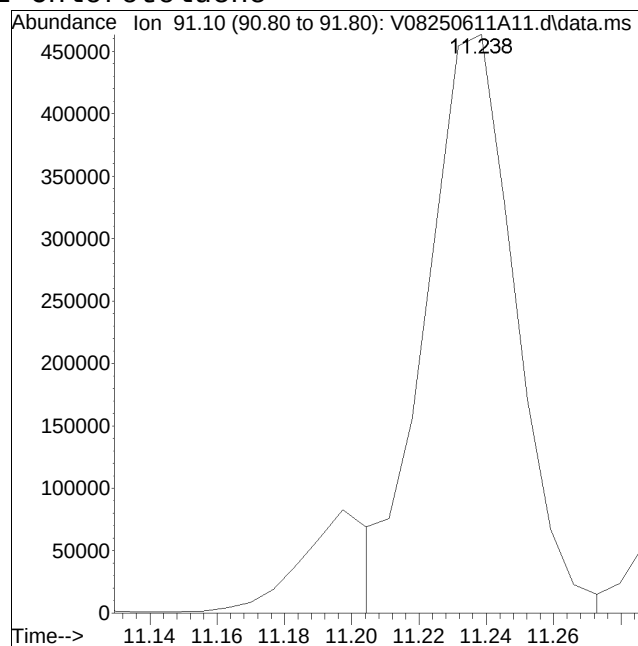
Data Path : K:\VOA108\2025\250611AICAL : V108_250611A_8260.m
Data File : V08250611A11.d Operator : VOA108:PID
Date Inj'd : 6/11/2025 6:43 am Instrument : VOA 108
Sample : I8260STD30PPB Quant Date : 6/11/2025 11:03 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 958009

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 846560 M6

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A12.d
 Acq On : 11 Jun 2025 7:05 am
 Operator : VOA108:PID
 Sample : I8260STD80PPB
 Misc : WG2077605,ICAL (Sig #1); WG,ICAL22328 (Sig #2)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 11 11:03:19 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250611AICAL\V08250611A10.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.899	96	326391	10.000	ug/L	0.00
Standard Area 1 = 281729			Recovery	=	115.85%	
59) Chlorobenzene-d5	9.409	117	275644	10.000	ug/L	0.00
Standard Area 1 = 211926			Recovery	=	130.07%	
79) 1,4-Dichlorobenzene-d4	12.130	152	177861	10.000	ug/L	0.00
Standard Area 1 = 123694			Recovery	=	143.79%	
System Monitoring Compounds						
36) Dibromofluoromethane	5.102	113	102823	9.779	ug/L	0.00
Spiked Amount 10.000	Range 70	- 130	Recovery	=	97.79%	
43) 1,2-Dichloroethane-d4	5.619	65	99089	9.867	ug/L	0.00
Spiked Amount 10.000	Range 70	- 130	Recovery	=	98.67%	
60) Toluene-d8	7.576	98	323579	9.605	ug/L	0.00
Spiked Amount 10.000	Range 70	- 130	Recovery	=	96.05%	
83) 4-Bromofluorobenzene	10.909	95	117792	9.714	ug/L	0.00
Spiked Amount 10.000	Range 70	- 130	Recovery	=	97.14%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.617	85	699601	85.591	ug/L	100
3) Chloromethane	1.797	50	681157	80.166	ug/L	99
4) Vinyl chloride	1.876	62	813380	80.253	ug/L	99
5) Bromomethane	2.176	94	628374	85.908	ug/L	99
6) Chloroethane	2.282	64	583823	79.930	ug/L	99
7) Trichlorofluoromethane	2.422	101	1960415	82.329	ug/L	98
8) Ethyl ether	2.708	74	491470	77.715	ug/L	96
10) 1,1-Dichloroethene	2.894	96	929658	84.437	ug/L	96
11) Carbon disulfide	2.927	76	2939290	88.684	ug/L	98
12) Freon-113	2.927	101	1001651	92.687	ug/L	96
14) Acrolein	3.200	56	63798	87.625	ug/L	91
15) Methylene chloride	3.433	84	653625	71.243	ug/L	96
17) Acetone	3.466	43	122133	60.437	ug/L	100
18) trans-1,2-Dichloroethene	3.586	96	687886	83.559	ug/L	96
19) Methyl acetate	3.586	43	314775	80.086	ug/L	98
20) Methyl tert-butyl ether	3.679	73	1667788	83.867	ug/L	97
21) tert-Butyl alcohol	3.772	59	159152	409.046	ug/L	# 91
22) Diisopropyl ether	4.031	45	2324852	86.444	ug/L	97
23) 1,1-Dichloroethane	4.151	63	1232739	82.248	ug/L	99
24) Halothane	4.204	117	567648	83.370	ug/L	98
25) Acrylonitrile	4.191	53	146980	79.136	ug/L	87

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A12.d
 Acq On : 11 Jun 2025 7:05 am
 Operator : VOA108:PID
 Sample : I8260STD80PPB
 Misc : WG2077605,ICAL (Sig #1); WG,ICAL22328 (Sig #2)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 11 11:03:19 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250611AICAL\V08250611A10.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	4.377	59	1857767	87.940	ug/L	98
27) Vinyl acetate	4.384	43	1410161	91.141	ug/L	100
28) cis-1,2-Dichloroethene	4.663	96	775020	82.285	ug/L	99
29) 2,2-Dichloropropane	4.763	77	969767	85.985	ug/L	98
30) Bromochloromethane	4.849	128	437665	80.397	ug/L	95
31) Cyclohexane	4.862	56	1087434	89.023	ug/L	90
32) Chloroform	4.922	83	1285754	76.552	ug/L	97
33) Ethyl acetate	5.029	43	499491	83.239	ug/L	98
34) Carbon tetrachloride	5.062	117	1191680	87.151	ug/L	98
35) Tetrahydrofuran	5.075	42	144667M6	77.026	ug/L	
37) 1,1,1-Trichloroethane	5.122	97	1180491	84.474	ug/L	97
39) 2-Butanone	5.208	43	201243	82.153	ug/L	91
40) 1,1-Dichloropropene	5.242	75	901117	85.657	ug/L	99
41) Benzene	5.482	78	2759377	83.131	ug/L	99
42) tert-Amyl methyl ether	5.598	73	1624975	86.937	ug/L	94
44) 1,2-Dichloroethane	5.687	62	805343	78.301	ug/L	99
47) Methyl cyclohexane	6.063	83	1069202	91.268	ug/L	98
48) Trichloroethene	6.077	95	763164	83.448	ug/L	95
50) Dibromomethane	6.508	93	407717	80.045	ug/L	95
51) 1,2-Dichloropropane	6.611	63	661901	83.883	ug/L	99
53) 2-Chloroethyl vinyl ether	7.295	63	329671	93.946	ug/L	95
54) Bromodichloromethane	6.686	83	991411	84.313	ug/L	99
57) 1,4-Dioxane	6.891	88	35597	793.257	ug/L	98
58) cis-1,3-Dichloropropene	7.363	75	1082992	91.487	ug/L	99
61) Toluene	7.630	92	1697977	80.747	ug/L	98
62) 4-Methyl-2-pentanone	8.061	58	156724	90.928	ug/L	87
63) Tetrachloroethene	8.075	166	800747	80.951	ug/L	97
65) trans-1,3-Dichloropropene	8.109	75	916905	87.723	ug/L	91
67) Ethyl methacrylate	8.301	69	669056	90.847	ug/L	94
68) 1,1,2-Trichloroethane	8.294	83	448428	75.781	ug/L	98
69) Chlorodibromomethane	8.506	129	806849	82.505	ug/L	99
70) 1,3-Dichloropropane	8.616	76	886489	78.275	ug/L	99
71) 1,2-Dibromoethane	8.780	107	509235	79.151	ug/L	98
72) 2-Hexanone	9.060	43	302965	83.816	ug/L	94
73) Chlorobenzene	9.423	112	2117820	80.574	ug/L	98
74) Ethylbenzene	9.464	91	3683559	87.375	ug/L	98
75) 1,1,1,2-Tetrachloroethane	9.512	131	874421	87.364	ug/L	98
76) p/m Xylene	9.649	106	3198980	178.498	ug/L	99
77) o Xylene	10.196	106	3280032	180.085	ug/L	96
78) Styrene	10.265	104	5549863	187.238	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A12.d
 Acq On : 11 Jun 2025 7:05 am
 Operator : VOA108:PID
 Sample : I8260STD80PPB
 Misc : WG2077605,ICAL (Sig #1); WG,ICAL22328 (Sig #2)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 11 11:03:19 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250611AICAL\V08250611A10.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80)	Bromoform	10.285	173	622717	92.050	ug/L	97
82)	Isopropylbenzene	10.586	105	4023233	85.568	ug/L	99
84)	Bromobenzene	11.019	156	1029768	79.185	ug/L	100
85)	n-Propylbenzene	11.067	91	4690147	85.076	ug/L	96
86)	1,4-Dichlorobutane	11.080	55	931857	79.537	ug/L	98
87)	1,1,2,2-Tetrachloroethane	11.156	83	676796	76.075	ug/L	97
88)	4-Ethyltoluene	11.197	105	3865979	84.506	ug/L	99
89)	2-Chlorotoluene	11.238	91	2647253M6	80.598	ug/L	
90)	1,3,5-Trimethylbenzene	11.300	105	3644747	87.658	ug/L	99
91)	1,2,3-Trichloropropane	11.293	75	595625	80.888	ug/L	98
92)	trans-1,4-Dichloro-2-b...	11.348	53	171898	84.611	ug/L	95
93)	4-Chlorotoluene	11.423	91	2686134	82.427	ug/L	99
94)	tert-Butylbenzene	11.636	119	3046893	86.496	ug/L	99
97)	1,2,4-Trimethylbenzene	11.718	105	3582872	88.048	ug/L	100
98)	sec-Butylbenzene	11.828	105	4544022	87.788	ug/L	98
99)	p-Isopropyltoluene	11.986	119	4041734	90.143	ug/L	99
100)	1,3-Dichlorobenzene	12.048	146	2194295	83.587	ug/L	99
101)	1,4-Dichlorobenzene	12.144	146	2156177	80.658	ug/L	99
102)	p-Diethylbenzene	12.363	119	2377410	90.030	ug/L	99
103)	n-Butylbenzene	12.418	91	3404613	88.432	ug/L	100
104)	1,2-Dichlorobenzene	12.569	146	1970035	81.697	ug/L	98
105)	1,2,4,5-Tetramethylben...	13.152	119	3986084	91.556	ug/L	99
106)	1,2-Dibromo-3-chloropr...	13.344	155	121359	91.457	ug/L	98
107)	1,3,5-Trichlorobenzene	13.378	180	1521487	83.789	ug/L	98
108)	Hexachlorobutadiene	13.955	225	672217	85.117	ug/L	97
109)	1,2,4-Trichlorobenzene	13.975	180	1303243	82.337	ug/L	100
110)	Naphthalene	14.263	128	2602856	87.635	ug/L	100
111)	1,2,3-Trichlorobenzene	14.435	180	1158494	81.552	ug/L	100

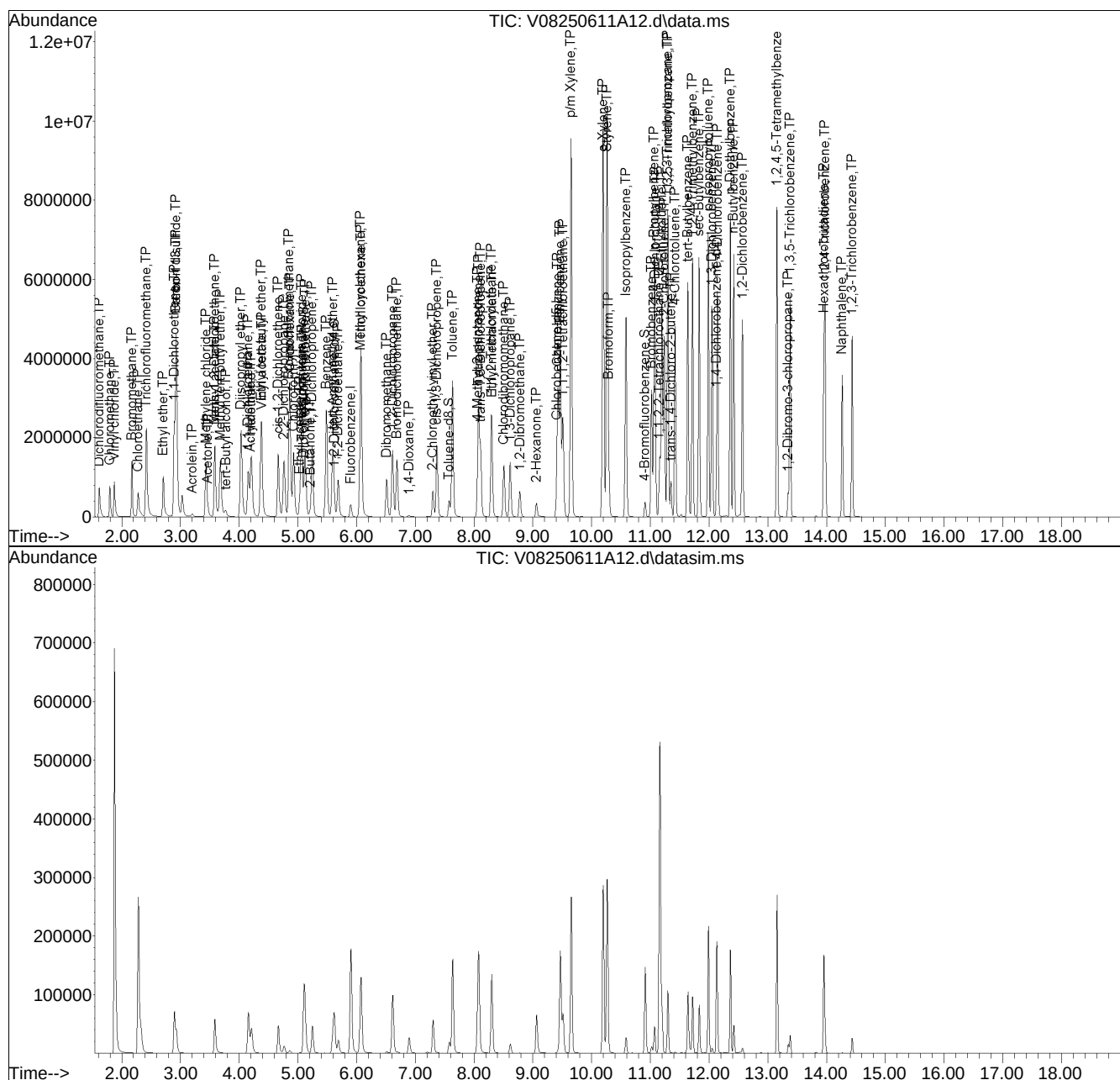
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A12.d
 Acq On : 11 Jun 2025 7:05 am
 Operator : VOA108:PID
 Sample : I8260STD80PPB
 Misc : WG2077605,ICAL (Sig #1); WG,ICAL22328 (Sig #2)
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 11 11:03:19 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

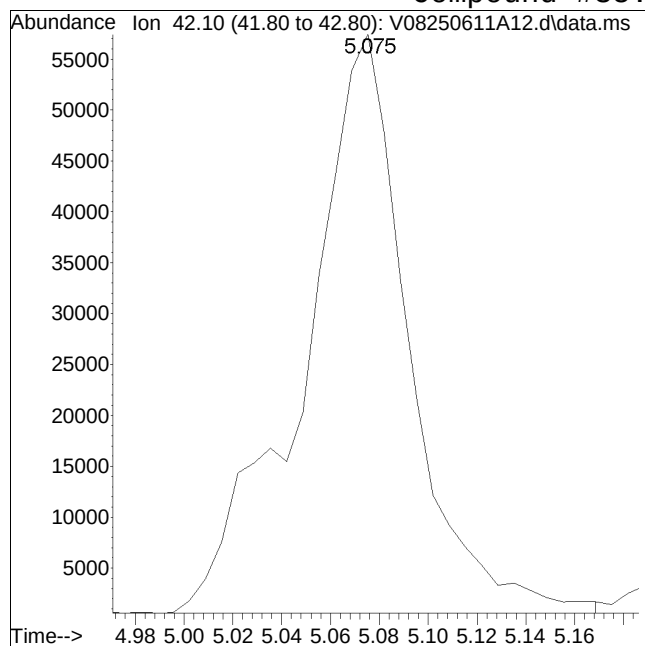
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane



Manual Integration Report

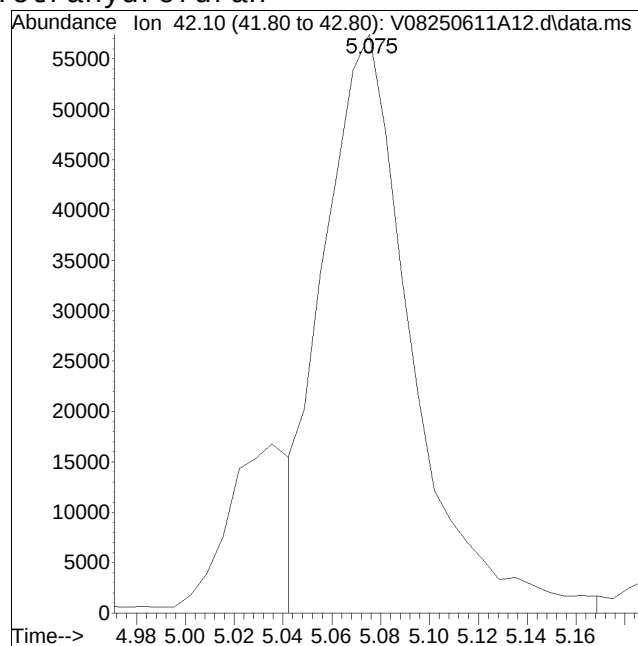
Data Path : K:\V0A108\2025\250611AICALQ Method : V108_250611A_8260.m
Data File : V08250611A12.d Operator : V0A108:PID
Date Inj'd : 6/11/2025 7:05 am Instrument : V0A 108
Sample : I8260STD80PPB Quant Date : 6/11/2025 11:03 am

Compound #35: Tetrahydrofuran



Original Peak Response = 168465

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

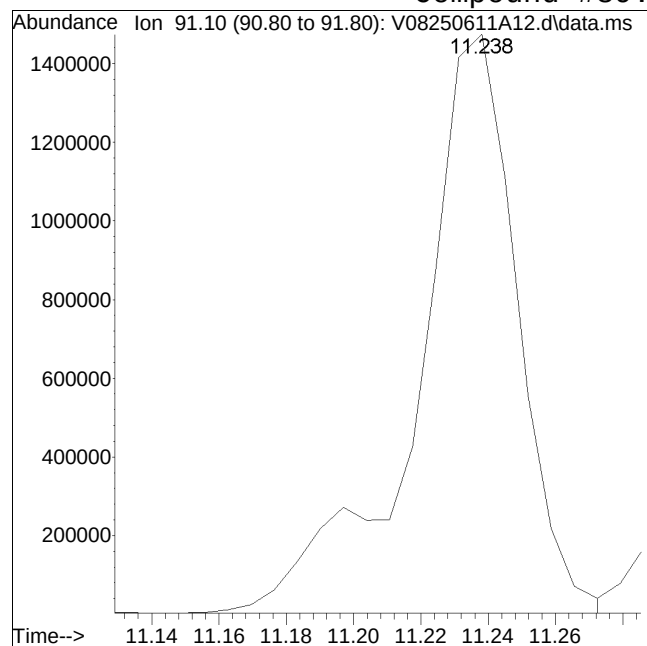


Manual Peak Response = 144667 M6

Manual Integration Report

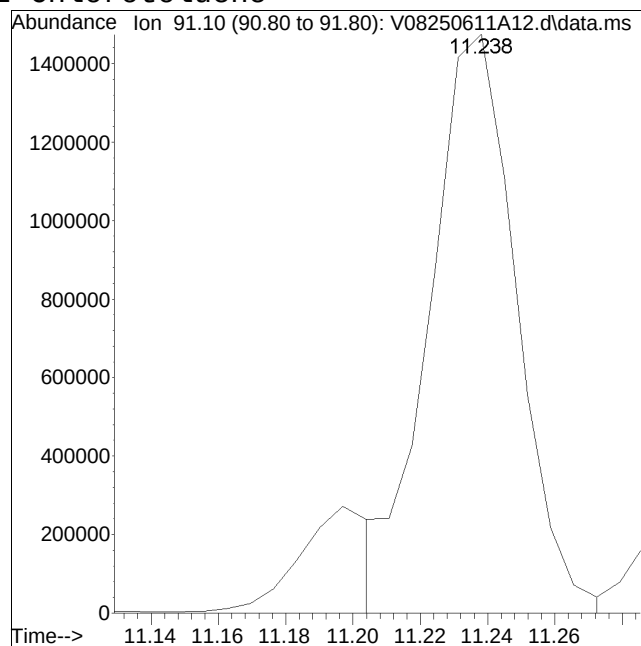
Data Path : K:\V0A108\2025\250611AICAL : V108_250611A_8260.m
Data File : V08250611A12.d Operator : V0A108:PID
Date Inj'd : 6/11/2025 7:05 am Instrument : V0A 108
Sample : I8260STD80PPB Quant Date : 6/11/2025 11:03 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 3021496

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 2647253 M6

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A13.d
 Acq On : 11 Jun 2025 7:27 am
 Operator : VOA108:PID
 Sample : I8260STD120PPB
 Misc : WG2077605, ICAL (Sig #1); WG, ICAL22328 (Sig #2)
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 11 11:03:26 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250611AICAL\V08250611A10.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.899	96	335794	10.000	ug/L	0.00
Standard Area 1 = 281729			Recovery	=	119.19%	
59) Chlorobenzene-d5	9.402	117	278829	10.000	ug/L	0.00
Standard Area 1 = 211926			Recovery	=	131.57%	
79) 1,4-Dichlorobenzene-d4	12.130	152	179789	10.000	ug/L	0.00
Standard Area 1 = 123694			Recovery	=	145.35%	
System Monitoring Compounds						
36) Dibromofluoromethane	5.102	113	104216	9.634	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	96.34%	
43) 1,2-Dichloroethane-d4	5.618	65	100849	9.761	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	97.61%	
60) Toluene-d8	7.575	98	328141	9.629	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	96.29%	
83) 4-Bromofluorobenzene	10.909	95	115664	9.436	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	94.36%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.617	85	1097796	130.546	ug/L	99
3) Chloromethane	1.796	50	1071141	122.533	ug/L	100
4) Vinyl chloride	1.870	62	1231098	118.066	ug/L	98
5) Bromomethane	2.169	94	1008769	134.052	ug/L	99
6) Chloroethane	2.275	64	874319	116.350	ug/L	98
7) Trichlorofluoromethane	2.415	101	3005826	122.698	ug/L	99
8) Ethyl ether	2.708	74	748227	115.003	ug/L	95
10) 1,1-Dichloroethene	2.894	96	1441717	127.279	ug/L	95
11) Carbon disulfide	2.927	76	4573286	134.121	ug/L	98
12) Freon-113	2.927	101	1576767	141.820	ug/L	98
14) Acrolein	3.200	56	102187	136.421	ug/L	95
15) Methylene chloride	3.433	84	1026778	108.781	ug/L	97
17) Acetone	3.466	43	188871	90.845	ug/L	99
18) trans-1,2-Dichloroethene	3.585	96	1085423	128.156	ug/L	96
19) Methyl acetate	3.585	43	485715	120.117	ug/L	98
20) Methyl tert-butyl ether	3.679	73	2588668	126.529	ug/L	97
21) tert-Butyl alcohol	3.765	59	244900	611.806	ug/L	# 89
22) Diisopropyl ether	4.031	45	3620217	130.840	ug/L	97
23) 1,1-Dichloroethane	4.151	63	1881664	122.028	ug/L	99
24) Halothane	4.204	117	895850	127.888	ug/L	100
25) Acrylonitrile	4.191	53	224087	117.272	ug/L	87

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A13.d
 Acq On : 11 Jun 2025 7:27 am
 Operator : VOA108:PID
 Sample : I8260STD120PPB
 Misc : WG2077605,ICAL (Sig #1); WG,ICAL22328 (Sig #2)
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 11 11:03:26 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250611AICAL\V08250611A10.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	4.370	59	2940606	135.300	ug/L	99
27) Vinyl acetate	4.377	43	2162683	135.863	ug/L	100
28) cis-1,2-Dichloroethene	4.663	96	1212517	125.130	ug/L	99
29) 2,2-Dichloropropane	4.763	77	1524930	131.423	ug/L	97
30) Bromochloromethane	4.856	128	695806	124.237	ug/L	94
31) Cyclohexane	4.856	56	1694257	134.817	ug/L	95
32) Chloroform	4.922	83	1975134	114.303	ug/L	98
33) Ethyl acetate	5.029	43	763703	123.705	ug/L	98
34) Carbon tetrachloride	5.062	117	1900214	135.077	ug/L	99
35) Tetrahydrofuran	5.069	42	228076M6	118.036	ug/L	
37) 1,1,1-Trichloroethane	5.122	97	1845689	128.376	ug/L	97
39) 2-Butanone	5.208	43	294466	116.843	ug/L #	58
40) 1,1-Dichloropropene	5.241	75	1398603	129.223	ug/L	99
41) Benzene	5.481	78	4173816	122.222	ug/L	99
42) tert-Amyl methyl ether	5.591	73	2589570	134.663	ug/L	92
44) 1,2-Dichloroethane	5.687	62	1238357	117.030	ug/L	98
47) Methyl cyclohexane	6.070	83	1715297	142.318	ug/L	97
48) Trichloroethene	6.077	95	1276031	135.620	ug/L	96
50) Dibromomethane	6.508	93	647725	123.604	ug/L	97
51) 1,2-Dichloropropane	6.610	63	1023453	126.071	ug/L	98
53) 2-Chloroethyl vinyl ether	7.295	63	519291	143.838	ug/L	95
54) Bromodichloromethane	6.686	83	1537802	127.118	ug/L	100
57) 1,4-Dioxane	6.891	88	58105	1258.576	ug/L	98
58) cis-1,3-Dichloropropene	7.363	75	1714569	140.785	ug/L	98
61) Toluene	7.630	92	2800235	131.643	ug/L	98
62) 4-Methyl-2-pentanone	8.061	58	241353	138.428	ug/L	88
63) Tetrachloroethene	8.075	166	1342096	134.129	ug/L	98
65) trans-1,3-Dichloropropene	8.109	75	1455556	137.666	ug/L	93
67) Ethyl methacrylate	8.301	69	1077472	144.632	ug/L	94
68) 1,1,2-Trichloroethane	8.294	83	722218	120.655	ug/L	98
69) Chlorodibromomethane	8.506	129	1314645	132.894	ug/L	99
70) 1,3-Dichloropropane	8.615	76	1400863	122.280	ug/L	99
71) 1,2-Dibromoethane	8.780	107	820119	126.017	ug/L	100
72) 2-Hexanone	9.060	43	479817	131.226	ug/L	95
73) Chlorobenzene	9.423	112	3516911	132.276	ug/L	97
74) Ethylbenzene	9.464	91	5946876	139.450	ug/L	98
75) 1,1,1,2-Tetrachloroethane	9.512	131	1423081	140.556	ug/L	99
76) p/m Xylene	9.649	106	5316993	293.291	ug/L	99
77) o Xylene	10.196	106	5411872	293.737	ug/L	97
78) Styrene	10.264	104	9133212	304.611	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A13.d
 Acq On : 11 Jun 2025 7:27 am
 Operator : VOA108:PID
 Sample : I8260STD120PPB
 Misc : WG2077605, ICAL (Sig #1); WG, ICAL22328 (Sig #2)
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 11 11:03:26 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250611AICAL\V08250611A10.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80)	Bromoform	10.292	173	1017952	148.860	ug/L	97
82)	Isopropylbenzene	10.579	105	6601985	138.909	ug/L	99
84)	Bromobenzene	11.018	156	1679102	127.732	ug/L	100
85)	n-Propylbenzene	11.066	91	7882932	141.458	ug/L	97
86)	1,4-Dichlorobutane	11.080	55	1453593	122.739	ug/L	97
87)	1,1,2,2-Tetrachloroethane	11.162	83	1063480	118.258	ug/L	96
88)	4-Ethyltoluene	11.197	105	6408951	138.591	ug/L	99
89)	2-Chlorotoluene	11.238	91	4169907M6	125.595	ug/L	
90)	1,3,5-Trimethylbenzene	11.300	105	6103603	145.220	ug/L	99
91)	1,2,3-Trichloropropane	11.293	75	934983	125.613	ug/L	96
92)	trans-1,4-Dichloro-2-b...	11.348	53	264619	128.853	ug/L #	91
93)	4-Chlorotoluene	11.423	91	4475816	135.873	ug/L	100
94)	tert-Butylbenzene	11.636	119	4998608	140.381	ug/L	100
97)	1,2,4-Trimethylbenzene	11.718	105	5811349	141.281	ug/L	100
98)	sec-Butylbenzene	11.828	105	7333465	140.160	ug/L	97
99)	p-Isopropyltoluene	11.986	119	6646496	146.647	ug/L	98
100)	1,3-Dichlorobenzene	12.054	146	3511121	132.315	ug/L	99
101)	1,4-Dichlorobenzene	12.143	146	3563339	131.867	ug/L	98
102)	p-Diethylbenzene	12.363	119	3930411	147.245	ug/L	99
103)	n-Butylbenzene	12.418	91	5426822	139.445	ug/L	98
104)	1,2-Dichlorobenzene	12.569	146	3228395	132.446	ug/L	99
105)	1,2,4,5-Tetramethylben...	13.159	119	6750651	153.392	ug/L	99
106)	1,2-Dibromo-3-chloropr...	13.344	155	184995	137.919	ug/L	95
107)	1,3,5-Trichlorobenzene	13.378	180	2522893	137.446	ug/L	97
108)	Hexachlorobutadiene	13.954	225	1135679	142.259	ug/L	97
109)	1,2,4-Trichlorobenzene	13.975	180	2178778	136.176	ug/L	98
110)	Naphthalene	14.263	128	4215587	140.412	ug/L	100
111)	1,2,3-Trichlorobenzene	14.435	180	1900754	132.369	ug/L	99

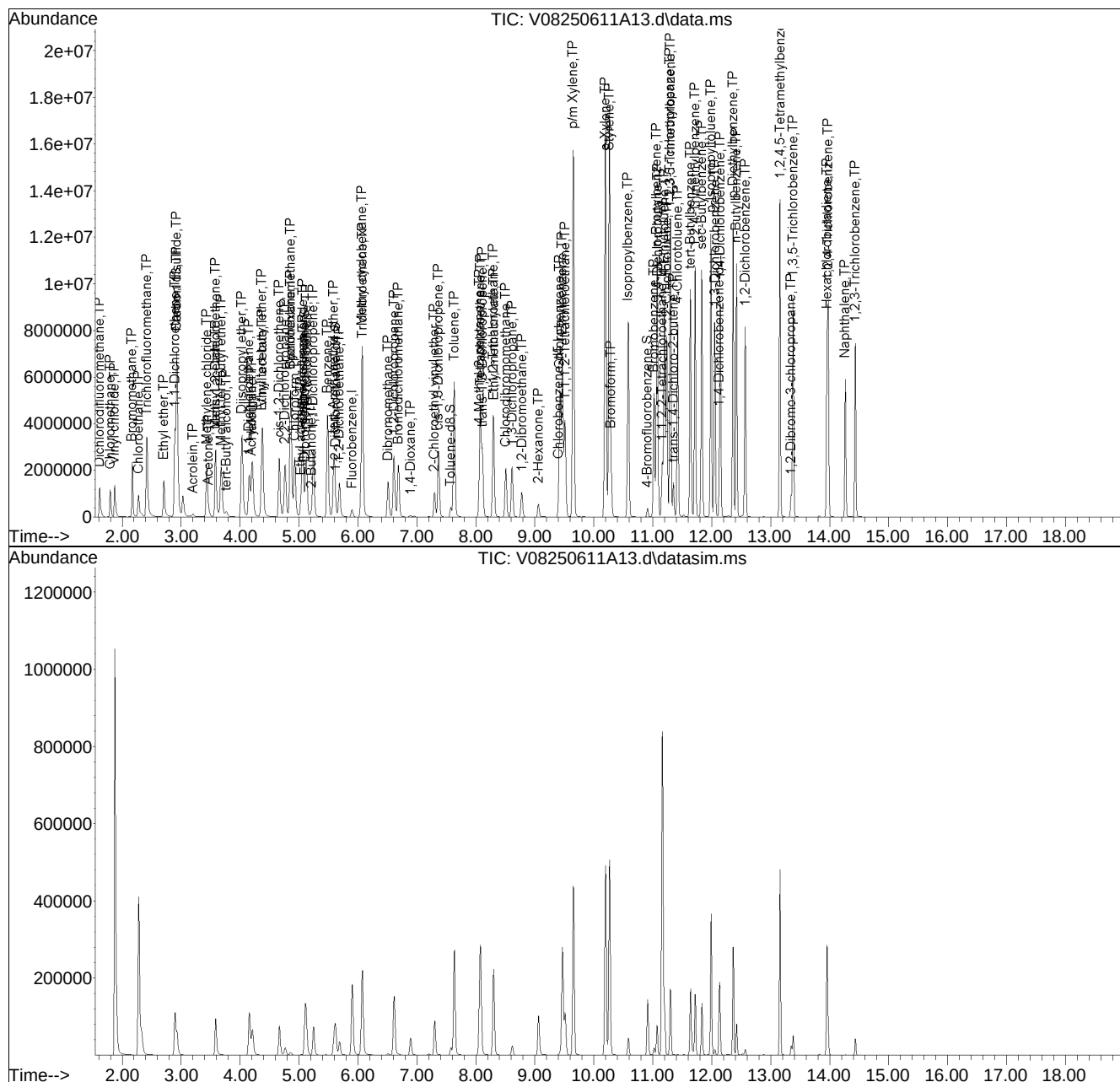
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
Data File : V08250611A13.d
Acq On : 11 Jun 2025 7:27 am
Operator : VOA108:PID
Sample : I8260STD120PPB
Misc : WG2077605,ICAL (Sig #1); WG,ICAL22328 (Sig #2)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 11 11:03:26 2025
Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 11 11:02:18 2025
Response via : Initial Calibration

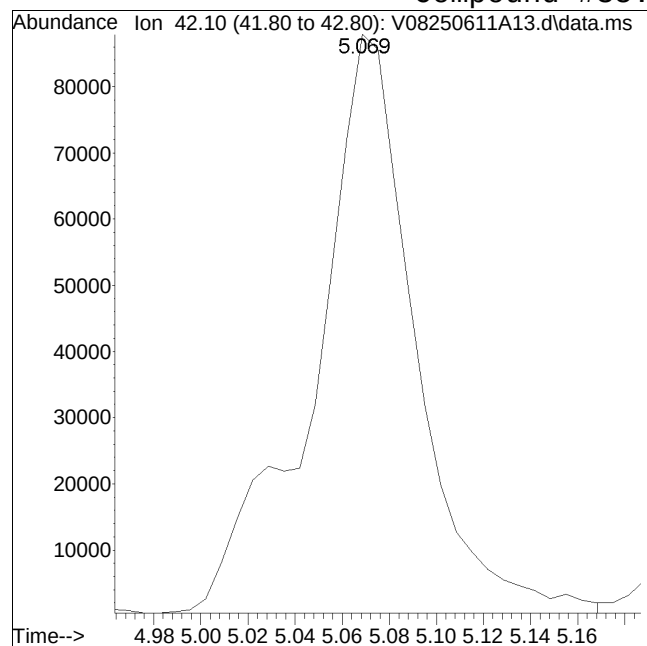
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane



Manual Integration Report

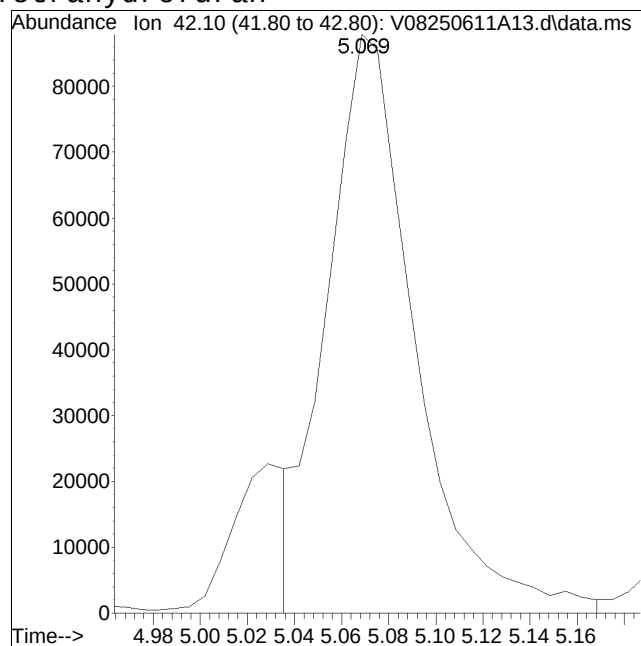
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Data File : V08250611A13.d Operator : V0A108:PID
Date Inj'd : 6/11/2025 7:27 am Instrument : V0A 108
Sample : I8260STD120PPB Quant Date : 6/11/2025 11:03 am

Compound #35: Tetrahydrofuran



Original Peak Response = 259487

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

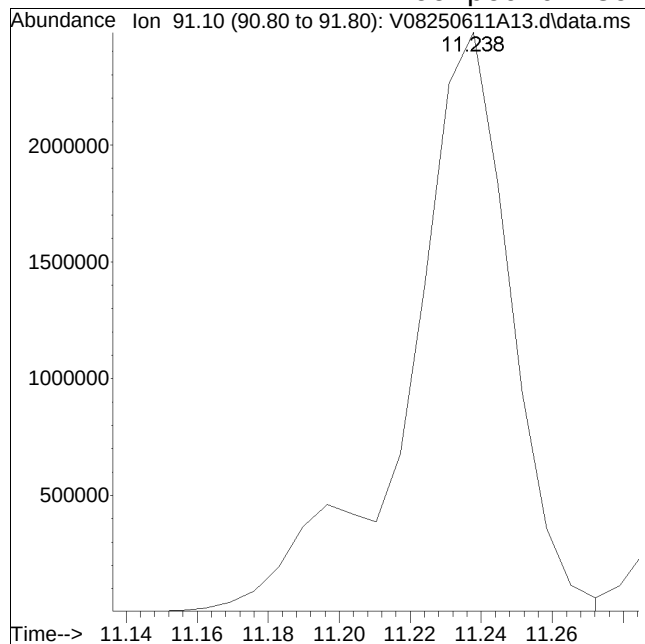


Manual Peak Response = 228076 M6

Manual Integration Report

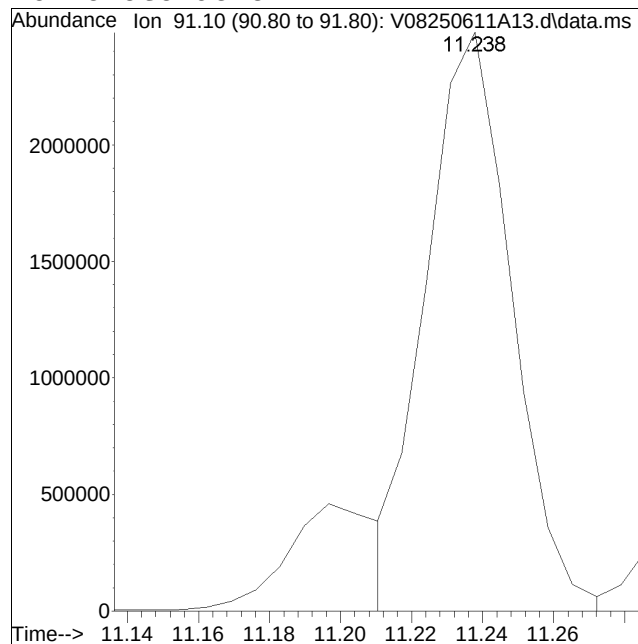
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Data File : V08250611A13.d Operator : V0A108:PID
Date Inj'd : 6/11/2025 7:27 am Instrument : V0A 108
Sample : I8260STD120PPB Quant Date : 6/11/2025 11:03 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 4954386

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 4169907 M6

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A14.d
 Acq On : 11 Jun 2025 7:49 am
 Operator : VOA108:PID
 Sample : I8260STD200PPB
 Misc : WG2077605,ICAL22328 (Sig #1); WG,ICAL22328 (Sig #2)
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 11 14:32:21 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250611AICAL\V08250611A10.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.893	96	367975	10.000	ug/L	0.00
Standard Area 1 = 281729			Recovery	=	130.61%	
59) Chlorobenzene-d5	9.403	117	325806	10.000	ug/L	0.00
Standard Area 1 = 211926			Recovery	=	153.74%	
79) 1,4-Dichlorobenzene-d4	12.130	152	215713	10.000	ug/L	0.00
Standard Area 1 = 123694			Recovery	=	174.39%	
System Monitoring Compounds						
36) Dibromofluoromethane	5.102	113	113832	9.603	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	96.03%	
43) 1,2-Dichloroethane-d4	5.612	65	116130	10.257	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	102.57%	
60) Toluene-d8	7.576	98	350509	8.803	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	88.03%	
83) 4-Bromofluorobenzene	10.909	95	133093	9.050	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	90.50%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.617	85	1821994	197.717	ug/L	100
3) Chloromethane	1.797	50	1819109	189.898	ug/L	100
4) Vinyl chloride	1.870	62	1968419	172.268	ug/L	97
5) Bromomethane	2.169	94	1812879	219.838	ug/L	99
6) Chloroethane	2.269	64	1217005	147.789	ug/L	100
7) Trichlorofluoromethane	2.416	101	5027180	187.263	ug/L	97
8) Ethyl ether	2.708	74	1243013	174.343	ug/L	95
10) 1,1-Dichloroethene	2.894	96	2459654	198.155	ug/L	94
11) Carbon disulfide	2.921	76	7824521	209.402	ug/L	98
12) Freon-113	2.928	101	2721479	223.372	ug/L	99
14) Acrolein	3.200	56	177608	216.373	ug/L	93
15) Methylene chloride	3.433	84	1772119	171.326	ug/L	98
17) Acetone	3.466	43	315555	138.506	ug/L	99
18) trans-1,2-Dichloroethene	3.586	96	1902275	204.960	ug/L	95
19) Methyl acetate	3.586	43	835217	188.485	ug/L	99
20) Methyl tert-butyl ether	3.679	73	4458728	198.875	ug/L	96
21) tert-Butyl alcohol	3.766	59	407911	929.919	ug/L	# 86
22) Diisopropyl ether	4.032	45	6245862	205.994	ug/L	98
23) 1,1-Dichloroethane	4.151	63	3260848	192.976	ug/L	99
24) Halothane	4.205	117	1577289	205.475	ug/L	99
25) Acrylonitrile	4.191	53	374174	178.693	ug/L	85

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A14.d
 Acq On : 11 Jun 2025 7:49 am
 Operator : VOA108:PID
 Sample : I8260STD200PPB
 Misc : WG2077605,ICAL22328 (Sig #1); WG,ICAL22328 (Sig #2)
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 11 14:32:21 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250611AICAL\V08250611A10.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	4.371	59	5246645	220.291	ug/L	99
27) Vinyl acetate	4.377	43	3876113	222.209	ug/L	99
28) cis-1,2-Dichloroethene	4.663	96	2104923	198.228	ug/L	98
29) 2,2-Dichloropropane	4.763	77	2658885	209.111	ug/L	97
30) Bromochloromethane	4.856	128	1269912	206.915	ug/L	91
31) Cyclohexane	4.856	56	2986961	216.896	ug/L	94
32) Chloroform	4.923	83	3460576	182.753	ug/L	97
33) Ethyl acetate	5.029	43	1269768	187.690	ug/L	98
34) Carbon tetrachloride	5.056	117	3325078	215.693	ug/L	98
35) Tetrahydrofuran	5.069	42	382855M6	180.810	ug/L	
37) 1,1,1-Trichloroethane	5.122	97	3207205	203.566	ug/L	97
39) 2-Butanone	5.202	43	519958	188.273	ug/L #	59
40) 1,1-Dichloropropene	5.242	75	2424000	204.378	ug/L	99
41) Benzene	5.482	78	7661085	204.720	ug/L	99
42) tert-Amyl methyl ether	5.592	73	4616153	219.057	ug/L	92
44) 1,2-Dichloroethane	5.681	62	2168384	187.000	ug/L	98
47) Methyl cyclohexane	6.071	83	3210617	243.089	ug/L	95
48) Trichloroethene	6.071	95	2426599	235.351	ug/L	95
50) Dibromomethane	6.509	93	1137796	198.135	ug/L	94
51) 1,2-Dichloropropane	6.611	63	1760776	197.928	ug/L	99
53) 2-Chloroethyl vinyl ether	7.295	63	852766	215.550	ug/L	97
54) Bromodichloromethane	6.686	83	2703626	203.943	ug/L	99
57) 1,4-Dioxane	6.885	88	94802	1873.863	ug/L	99
58) cis-1,3-Dichloropropene	7.364	75	2952452	221.228	ug/L	97
61) Toluene	7.631	92	4943018	198.872	ug/L	96
62) 4-Methyl-2-pentanone	8.062	58	413842	203.135	ug/L	87
63) Tetrachloroethene	8.075	166	2505979	214.336	ug/L	98
65) trans-1,3-Dichloropropene	8.110	75	2611837	211.409	ug/L	99
67) Ethyl methacrylate	8.294	69	1873735	215.252	ug/L	97
68) 1,1,2-Trichloroethane	8.294	83	1274546	182.227	ug/L	97
69) Chlorodibromomethane	8.507	129	2336232	202.112	ug/L	100
70) 1,3-Dichloropropane	8.616	76	2396775	179.047	ug/L	99
71) 1,2-Dibromoethane	8.773	107	1447066	190.291	ug/L	99
72) 2-Hexanone	9.054	43	816511	191.110	ug/L	95
73) Chlorobenzene	9.423	112	6256221	201.377	ug/L	97
74) Ethylbenzene	9.464	91	10615254	213.029	ug/L	97
75) 1,1,1,2-Tetrachloroethane	9.512	131	2578912	217.990	ug/L	98
76) p/m Xylene	9.656	106	10262529	484.468	ug/L	87
77) o Xylene	10.197	106	10286272	477.802	ug/L	82
78) Styrene	10.265	104	16537415	472.029	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A14.d
 Acq On : 11 Jun 2025 7:49 am
 Operator : VOA108:PID
 Sample : I8260STD200PPB
 Misc : WG2077605,ICAL22328 (Sig #1); WG,ICAL22328 (Sig #2)
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 11 14:32:21 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 11:02:18 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250611AICAL\V08250611A10.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80)	Bromoform	10.292	173	1852508	225.786	ug/L	97
82)	Isopropylbenzene	10.580	105	12007027	210.560	ug/L	99
84)	Bromobenzene	11.019	156	3104489	196.834	ug/L	99
85)	n-Propylbenzene	11.067	91	14020730	209.699	ug/L	95
86)	1,4-Dichlorobutane	11.081	55	2562333	180.327	ug/L	95
87)	1,1,2,2-Tetrachloroethane	11.163	83	1758068	162.939	ug/L	98
88)	4-Ethyltoluene	11.197	105	11784778	212.401	ug/L	98
89)	2-Chlorotoluene	11.239	91	7659152M6	192.270	ug/L	
90)	1,3,5-Trimethylbenzene	11.300	105	11402875	226.121	ug/L	100
91)	1,2,3-Trichloropropane	11.293	75	1718809	192.461	ug/L	95
92)	trans-1,4-Dichloro-2-b...	11.348	53	456895	185.429	ug/L #	91
93)	4-Chlorotoluene	11.424	91	8147735	206.150	ug/L	98
94)	tert-Butylbenzene	11.636	119	9149282	214.157	ug/L	99
97)	1,2,4-Trimethylbenzene	11.719	105	10821693	219.275	ug/L	99
98)	sec-Butylbenzene	11.829	105	13238611	210.884	ug/L	96
99)	p-Isopropyltoluene	11.986	119	12234991	224.994	ug/L	97
100)	1,3-Dichlorobenzene	12.055	146	6665848	209.365	ug/L	100
101)	1,4-Dichlorobenzene	12.144	146	6712459	207.036	ug/L	98
102)	p-Diethylbenzene	12.364	119	7446280	232.503	ug/L	98
103)	n-Butylbenzene	12.418	91	9861456	211.196	ug/L	97
104)	1,2-Dichlorobenzene	12.569	146	6004623	205.317	ug/L	98
105)	1,2,4,5-Tetramethylben...	13.152	119	12318495	233.293	ug/L	97
106)	1,2-Dibromo-3-chloropr...	13.345	155	324428	201.590	ug/L	95
107)	1,3,5-Trichlorobenzene	13.379	180	4934792	224.073	ug/L	96
108)	Hexachlorobutadiene	13.955	225	2402848	250.864	ug/L	98
109)	1,2,4-Trichlorobenzene	13.976	180	4543261	236.669	ug/L	99
110)	Naphthalene	14.264	128	7603445	211.078	ug/L	100
111)	1,2,3-Trichlorobenzene	14.435	180	3645029	211.567	ug/L	100

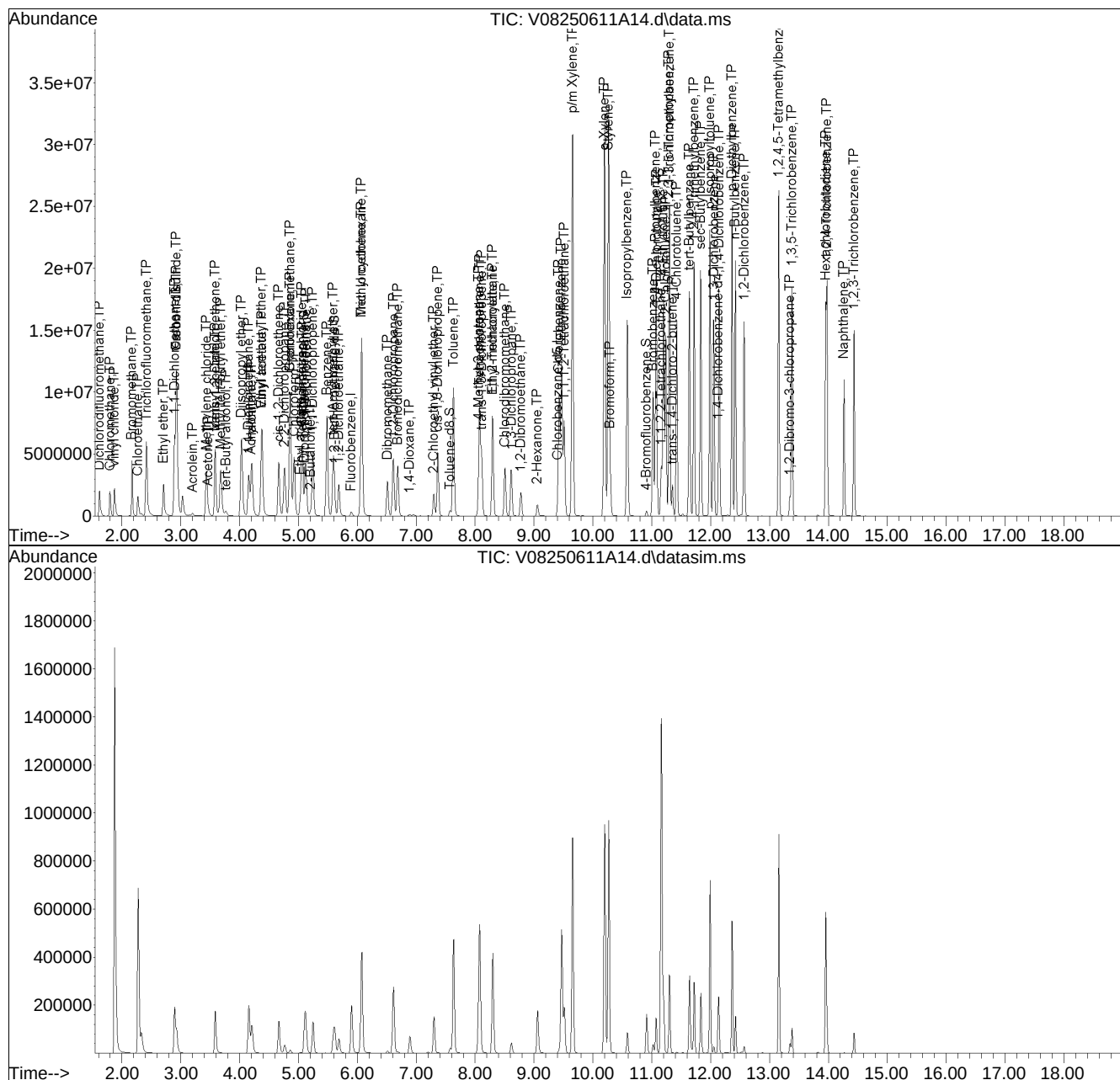
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
Data File : V08250611A14.d
Acq On : 11 Jun 2025 7:49 am
Operator : VOA108:PID
Sample : I8260STD200PPB
Misc : WG2077605,ICAL22328 (Sig #1); WG,ICAL22328 (Sig #2)
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 11 14:32:21 2025
Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 11 11:02:18 2025
Response via : Initial Calibration

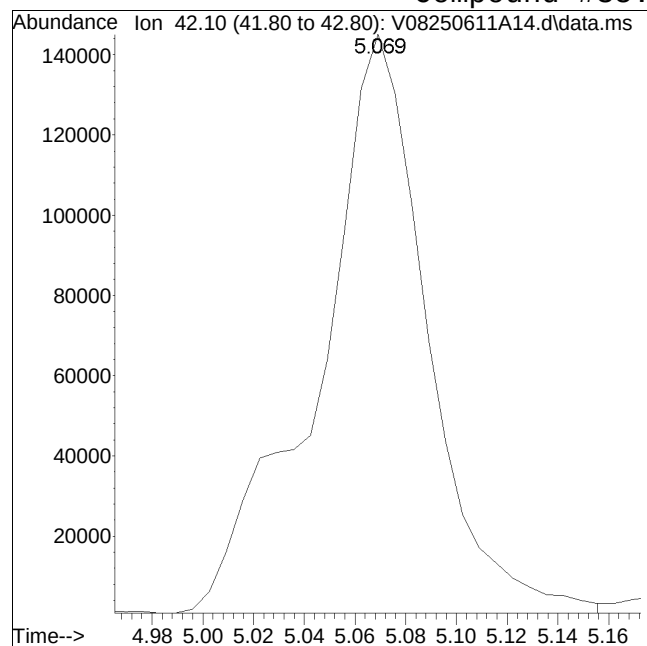
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane



Manual Integration Report

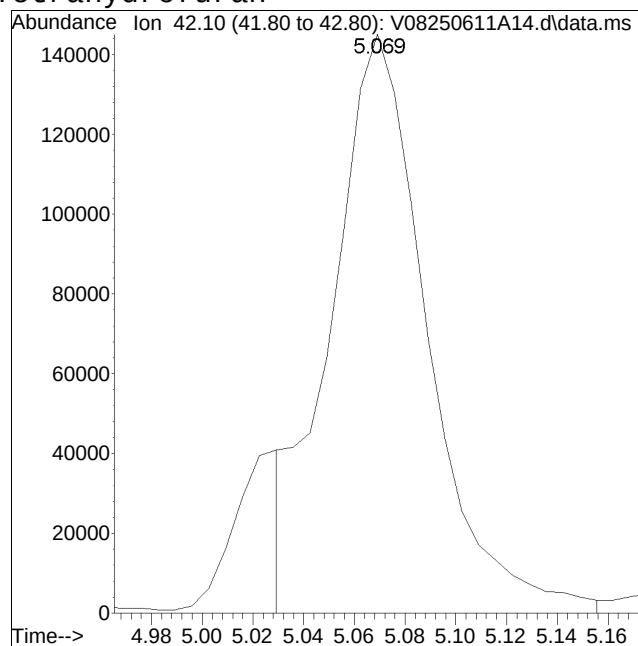
Data Path : K:\V0A108\2025\250611AICALQ Method : V108_250611A_8260.m
Data File : V08250611A14.d Operator : V0A108:PID
Date Inj'd : 6/11/2025 7:49 am Instrument : V0A 108
Sample : I8260STD200PPB Quant Date : 6/11/2025 11:03 am

Compound #35: Tetrahydrofuran



Original Peak Response = 427815

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

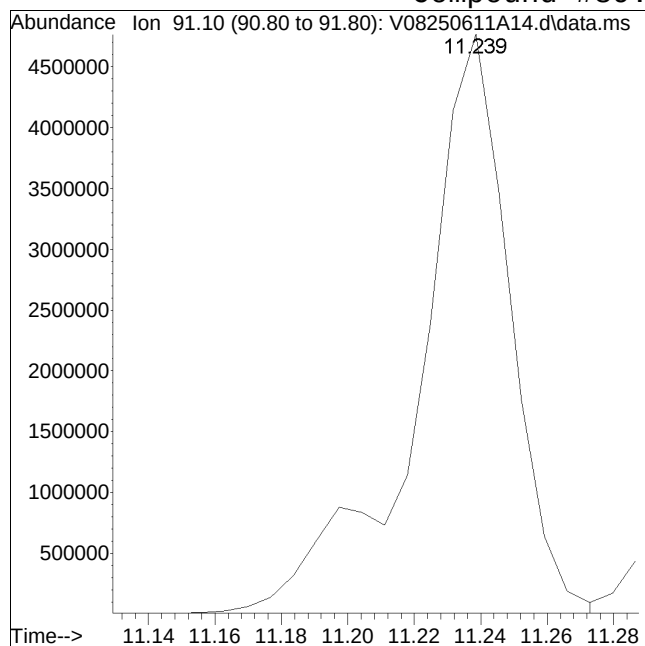


Manual Peak Response = 382855 M6

Manual Integration Report

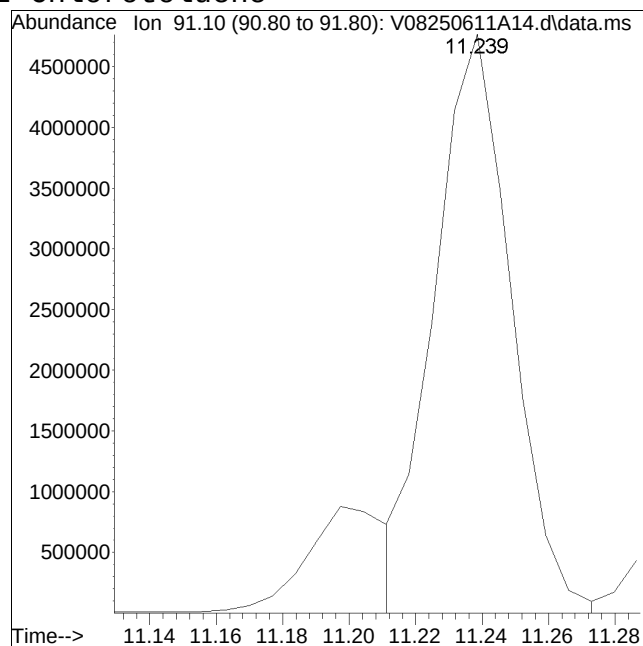
Data Path : K:\VOA108\2025\250611AICALQMethod : V108_250611A_8260.m
Data File : V08250611A14.dOperator : VOA108:PID
Date Inj'd : 6/11/2025 7:49 amInstrument : VOA 108
Sample : I8260STD200PPBQuant Date : 6/11/2025 11:03 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 9081549

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 7659152 M6

Evaluate Continuing Calibration Report

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A19.d
 Acq On : 11 Jun 2025 9:38 am
 Operator : VOA108:PID
 Sample : C8260STD10PPB
 Misc : WG2077605,ICAL (Sig #1); WG,ICAL22328 (Sig #2)
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 11 15:03:01 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	109	0.00
2 TP	Dichlorodifluoromethane	0.250	0.300	-20.0	118	0.00
3 TP	Chloromethane	0.260	0.301	-15.8	120	0.00
4 TP	Vinyl chloride	0.311	0.333	-7.1	101	0.00
5 TP	Bromomethane	0.224	0.211	5.8	100	0.00
6 TP	Chloroethane	0.224	0.235	-4.9	102	0.00
7 TP	Trichlorofluoromethane	0.730	0.831	-13.8	109	0.00
8 TP	Ethyl ether	0.194	0.175	9.8	96	0.00
10 TP	1,1-Dichloroethene	0.337	0.340	-0.9	115	0.00
11 TP	Carbon disulfide	1.015	0.896	11.7	111	0.00
12 TP	Freon-113	0.331	0.417	-26.0#	169	0.00
14 TP	Acrolein	0.024	0.020	16.7	82	-0.01
15 TP	Methylene chloride	0.281	0.241	14.2	94	0.00
17 TP	Acetone	0.050	0.042	16.0	87	0.00
18 TP	trans-1,2-Dichloroethene	0.252	0.248	1.6	107	0.00
19 TP	Methyl acetate	0.122	0.110	9.8	101	0.00
20 TP	Methyl tert-butyl ether	0.609	0.500	17.9	88	0.00
21 TP	tert-Butyl alcohol	0.012	0.011	8.3	99	0.00
22 TP	Diisopropyl ether	0.824	0.803	2.5	105	0.00
23 TP	1,1-Dichloroethane	0.459	0.468	-2.0	104	0.00
24 TP	Halothane	0.209	0.220	-5.3	106	0.00
25 TP	Acrylonitrile	0.057	0.050	12.3	83	0.00
26 TP	Ethyl tert-butyl ether	0.647	0.621	4.0	109	0.00
27 TP	Vinyl acetate	0.474	0.370	21.9#	88	0.00
28 TP	cis-1,2-Dichloroethene	0.289	0.285	1.4	102	0.00
29 TP	2,2-Dichloropropane	0.346	0.338	2.3	107	0.00
30 TP	Bromochloromethane	0.167	0.145	13.2	97	0.00
31 TP	Cyclohexane	0.374	0.404	-8.0	112	0.00
32 TP	Chloroform	0.515	0.479	7.0	100	0.00
33 TP	Ethyl acetate	0.184	0.169	8.2	98	0.00
34 TP	Carbon tetrachloride	0.419	0.405	3.3	103	0.00
35 TP	Tetrahydrofuran	0.058	0.052	10.3	93	0.00
36 S	Dibromofluoromethane	0.322	0.323	-0.3	112	0.00
37 TP	1,1,1-Trichloroethane	0.428	0.441	-3.0	105	0.00
39 TP	2-Butanone	0.075	0.071	5.3	106	0.00
40 TP	1,1-Dichloropropene	0.322	0.356	-10.6	116	0.00
41 TP	Benzene	1.017	1.004	1.3	102	0.00
42 TP	tert-Amyl methyl ether	0.573	0.509	11.2	98	0.00
43 S	1,2-Dichloroethane-d4	0.308	0.291	5.5	103	0.00

Evaluate Continuing Calibration Report

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A19.d
 Acq On : 11 Jun 2025 9:38 am
 Operator : VOA108:PID
 Sample : C8260STD10PPB
 Misc : WG2077605,ICAL (Sig #1); WG,ICAL22328 (Sig #2)
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 11 15:03:01 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TP	1,2-Dichloroethane	0.315	0.295	6.3	100	0.00
47 TP	Methyl cyclohexane	0.381	0.357	6.3	110	0.00
48 TP	Trichloroethene	0.280	0.260	7.1	102	0.00
50 TP	Dibromomethane	0.156	0.147	5.8	98	0.00
51 TP	1,2-Dichloropropane	0.242	0.235	2.9	102	0.00
53 TP	2-Chloroethyl vinyl ether	0.115	0.100	13.0	100	0.00
54 TP	Bromodichloromethane	0.360	0.330	8.3	99	0.00
57 TP	1,4-Dioxane	0.00137	0.00139#	-1.5	103	0.00
58 TP	cis-1,3-Dichloropropene	0.363	0.341	6.1	99	0.00
59 I	Chlorobenzene-d5	1.000	1.000	0.0	110	0.00
60 S	Toluene-d8	1.222	1.292	-5.7	111	0.00
61 TP	Toluene	0.763	0.764	-0.1	103	0.00
62 TP	4-Methyl-2-pentanone	0.063	0.059	6.3	99	0.00
63 TP	Tetrachloroethene	0.359	0.358	0.3	105	0.00
65 TP	trans-1,3-Dichloropropene	0.379	0.370	2.4	97	0.00
67 TP	Ethyl methacrylate	0.288	0.267	7.3	102	0.00
68 TP	1,1,2-Trichloroethane	0.215	0.212	1.4	102	0.00
69 TP	Chlorodibromomethane	0.355	0.323	9.0	97	0.00
70 TP	1,3-Dichloropropane	0.411	0.410	0.2	99	0.00
71 TP	1,2-Dibromoethane	0.233	0.232	0.4	97	0.00
72 TP	2-Hexanone	0.131	0.108	17.6	92	0.00
73 TP	Chlorobenzene	0.954	0.941	1.4	106	0.00
74 TP	Ethylbenzene	1.529	1.541	-0.8	105	0.00
75 TP	1,1,1,2-Tetrachloroethane	0.363	0.333	8.3	98	0.00
76 TP	p/m Xylene	* 20.000	18.242	8.8	106	0.00
77 TP	o Xylene	0.661	0.592	10.4	105	0.00
78 TP	Styrene	* 20.000	16.238	18.8	102	0.00
79 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	112	0.00
80 TP	Bromoform	0.380	0.296	22.1#	91	0.00
82 TP	Isopropylbenzene	2.644	2.594	1.9	107	0.00
83 S	4-Bromofluorobenzene	0.682	0.680	0.3	105	0.00
84 TP	Bromobenzene	0.731	0.679	7.1	102	0.00
85 TP	n-Propylbenzene	3.100	3.056	1.4	105	0.00
86 TP	1,4-Dichlorobutane	0.659	0.640	2.9	101	0.00
87 TP	1,1,2,2-Tetrachloroethane	0.500	0.447	10.6	90	0.00
88 TP	4-Ethyltoluene	2.572	2.641	-2.7	110	0.00
89 TP	2-Chlorotoluene	1.800	1.711	4.9	100	0.00

Evaluate Continuing Calibration Report

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A19.d
 Acq On : 11 Jun 2025 9:38 am
 Operator : VOA108:PID
 Sample : C8260STD10PPB
 Misc : WG2077605,ICAL (Sig #1); WG,ICAL22328 (Sig #2)
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 11 15:03:01 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
90 TP	1,3,5-Trimethylbenzene	2.338	2.150	8.0	102	0.00
91 TP	1,2,3-Trichloropropane	0.414	0.361	12.8	94	0.00
92 TP	trans-1,4-Dichloro-2-butene	0.120	0.113	5.8	100	0.00
93 TP	4-Chlorotoluene	1.832	1.788	2.4	104	0.00
94 TP	tert-Butylbenzene	1.981	1.948	1.7	109	0.00
97 TP	1,2,4-Trimethylbenzene	2.288	2.236	2.3	106	0.00
98 TP	sec-Butylbenzene	2.910	2.902	0.3	106	0.00
99 TP	p-Isopropyltoluene	* 10.000	8.953	10.5	106	0.00
100 TP	1,3-Dichlorobenzene	1.476	1.396	5.4	106	0.00
101 TP	1,4-Dichlorobenzene	1.503	1.394	7.3	105	0.00
102 TP	p-Diethylbenzene	1.575	1.450	7.9	107	0.00
103 TP	n-Butylbenzene	2.165	2.285	-5.5	113	0.00
104 TP	1,2-Dichlorobenzene	1.356	1.300	4.1	104	0.00
105 TP	1,2,4,5-Tetramethylbenzene	2.595	2.413	7.0	110	0.00
106 TP	1,2-Dibromo-3-chloropropane	* 10.000	8.939	10.6	92	0.00
107 TP	1,3,5-Trichlorobenzene	1.021	0.963	5.7	105	0.00
108 TP	Hexachlorobutadiene	0.444	0.408	8.1	104	0.00
109 TP	1,2,4-Trichlorobenzene	0.890	0.827	7.1	103	0.00
110 TP	Naphthalene	1.670	1.592	4.7	101	0.00
111 TP	1,2,3-Trichlorobenzene	0.799	0.721	9.8	101	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 1 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A19.d
 Acq On : 11 Jun 2025 9:38 am
 Operator : VOA108:PID
 Sample : C8260STD10PPB
 Misc : WG2077605, ICAL (Sig #1); WG, ICAL22328 (Sig #2)
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 11 15:03:01 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250611AICAL\V08250611A10.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.892	96	306842	10.000	ug/L	0.00
Standard Area 1 = 281729			Recovery	=	108.91%	
59) Chlorobenzene-d5	9.403	117	233533	10.000	ug/L	0.00
Standard Area 1 = 211926			Recovery	=	110.20%	
79) 1,4-Dichlorobenzene-d4	12.130	152	138409	10.000	ug/L	0.00
Standard Area 1 = 123694			Recovery	=	111.90%	
System Monitoring Compounds						
36) Dibromofluoromethane	5.102	113	99242	10.040	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	100.40%	
43) 1,2-Dichloroethane-d4	5.619	65	89262	9.454	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	94.54%	
60) Toluene-d8	7.576	98	301752	10.573	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	105.73%	
83) 4-Bromofluorobenzene	10.909	95	94086	9.971	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	99.71%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.617	85	92021	11.975	ug/L	99
3) Chloromethane	1.797	50	92490	11.579	ug/L	98
4) Vinyl chloride	1.870	62	102098	10.715	ug/L	96
5) Bromomethane	2.169	94	64610	9.396	ug/L	100
6) Chloroethane	2.282	64	72139	10.506	ug/L	100
7) Trichlorofluoromethane	2.422	101	254898	11.387	ug/L	97
8) Ethyl ether	2.708	74	53793	9.048	ug/L	97
10) 1,1-Dichloroethene	2.894	96	104267	10.074	ug/L	94
11) Carbon disulfide	2.921	76	274812	8.820	ug/L	96
12) Freon-113	2.927	101	127800	12.579	ug/L	99
14) Acrolein	3.193	56	6255	8.540	ug/L	98
15) Methylene chloride	3.433	84	73882	8.566	ug/L	93
17) Acetone	3.473	43	12880	8.367	ug/L	98
18) trans-1,2-Dichloroethene	3.586	96	75951	9.814	ug/L	97
19) Methyl acetate	3.592	43	33763	9.034	ug/L	97
20) Methyl tert-butyl ether	3.679	73	153411	8.206	ug/L	96
21) tert-Butyl alcohol	3.765	59	17309	46.190	ug/L #	83
22) Diisopropyl ether	4.031	45	246479	9.749	ug/L	99
23) 1,1-Dichloroethane	4.158	63	143650	10.195	ug/L	98
24) Halothane	4.204	117	67383	10.527	ug/L	100
25) Acrylonitrile	4.197	53	15206	8.709	ug/L #	72

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A19.d
 Acq On : 11 Jun 2025 9:38 am
 Operator : VOA108:PID
 Sample : C8260STD10PPB
 Misc : WG2077605,ICAL (Sig #1); WG,ICAL22328 (Sig #2)
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 11 15:03:01 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250611AICAL\V08250611A10.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Ethyl tert-butyl ether	4.370	59	190485	9.591	ug/L	90
27) Vinyl acetate	4.384	43	113599	7.810	ug/L	97
28) cis-1,2-Dichloroethene	4.663	96	87574	9.890	ug/L	100
29) 2,2-Dichloropropane	4.763	77	103767	9.787	ug/L	98
30) Bromochloromethane	4.849	128	44420	8.680	ug/L	95
31) Cyclohexane	4.863	56	123903	10.790	ug/L	93
32) Chloroform	4.929	83	147051	9.313	ug/L	98
33) Ethyl acetate	5.029	43	51895	9.199	ug/L	97
34) Carbon tetrachloride	5.062	117	124188	9.661	ug/L	88
35) Tetrahydrofuran	5.075	42	16088M6	9.112	ug/L	
37) 1,1,1-Trichloroethane	5.122	97	135398	10.306	ug/L	98
39) 2-Butanone	5.215	43	21740	9.440	ug/L	98
40) 1,1-Dichloropropene	5.242	75	109137	11.035	ug/L	97
41) Benzene	5.482	78	308049	9.872	ug/L	100
42) tert-Amyl methyl ether	5.591	73	156055	8.881	ug/L	98
44) 1,2-Dichloroethane	5.687	62	90599	9.370	ug/L	99
47) Methyl cyclohexane	6.063	83	109583	9.374	ug/L	98
48) Trichloroethene	6.070	95	79680	9.268	ug/L	96
50) Dibromomethane	6.508	93	45061	9.410	ug/L	98
51) 1,2-Dichloropropane	6.611	63	72053	9.713	ug/L	99
53) 2-Chloroethyl vinyl ether	7.302	63	30633	8.672	ug/L	96
54) Bromodichloromethane	6.686	83	101324	9.166	ug/L	100
57) 1,4-Dioxane	6.898	88	21374	506.652	ug/L	96
58) cis-1,3-Dichloropropene	7.363	75	104605	9.400	ug/L	98
61) Toluene	7.630	92	178327	10.009	ug/L	99
62) 4-Methyl-2-pentanone	8.061	58	13888	9.510	ug/L	95
63) Tetrachloroethene	8.075	166	83497	9.963	ug/L	97
65) trans-1,3-Dichloropropene	8.109	75	86431	9.760	ug/L	97
67) Ethyl methacrylate	8.301	69	62397	9.292	ug/L	99
68) 1,1,2-Trichloroethane	8.301	83	49395	9.853	ug/L	97
69) Chlorodibromomethane	8.506	129	75369	9.097	ug/L	97
70) 1,3-Dichloropropane	8.616	76	95716	9.975	ug/L	99
71) 1,2-Dibromoethane	8.773	107	54140	9.932	ug/L	100
72) 2-Hexanone	9.067	43	25250	8.245	ug/L	93
73) Chlorobenzene	9.423	112	219688	9.865	ug/L	97
74) Ethylbenzene	9.464	91	359845	10.075	ug/L	100
75) 1,1,1,2-Tetrachloroethane	9.505	131	77760	9.170	ug/L	100
76) p/m Xylene	9.649	106	285530	18.242	ug/L	100
77) o Xylene	10.189	106	276625	17.926	ug/L	97
78) Styrene	10.258	104	446666	16.238	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
 Data File : V08250611A19.d
 Acq On : 11 Jun 2025 9:38 am
 Operator : VOA108:PID
 Sample : C8260STD10PPB
 Misc : WG2077605,ICAL (Sig #1); WG,ICAL22328 (Sig #2)
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 11 15:03:01 2025
 Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250611AICAL\V08250611A10.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80)	Bromoform	10.292	173	40902	7.769	ug/L	93
82)	Isopropylbenzene	10.580	105	359016	9.812	ug/L	98
84)	Bromobenzene	11.019	156	93926	9.281	ug/L	99
85)	n-Propylbenzene	11.067	91	423006	9.860	ug/L	98
86)	1,4-Dichlorobutane	11.080	55	88641	9.722	ug/L	95
87)	1,1,2,2-Tetrachloroethane	11.156	83	61829	8.931	ug/L	99
88)	4-Ethyltoluene	11.197	105	365535	10.268	ug/L	100
89)	2-Chlorotoluene	11.231	91	236873M6	9.510	ug/L	
90)	1,3,5-Trimethylbenzene	11.293	105	297608	9.198	ug/L	100
91)	1,2,3-Trichloropropane	11.293	75	49932M1	8.714	ug/L	
92)	trans-1,4-Dichloro-2-b...	11.348	53	15678	9.423	ug/L	93
93)	4-Chlorotoluene	11.417	91	247429	9.757	ug/L	98
94)	tert-Butylbenzene	11.636	119	269630	9.836	ug/L	97
97)	1,2,4-Trimethylbenzene	11.711	105	309442	9.772	ug/L	98
98)	sec-Butylbenzene	11.828	105	401728	9.973	ug/L	99
99)	p-Isopropyltoluene	11.986	119	344727	8.953	ug/L	99
100)	1,3-Dichlorobenzene	12.048	146	193209	9.458	ug/L	99
101)	1,4-Dichlorobenzene	12.144	146	192951	9.275	ug/L	99
102)	p-Diethylbenzene	12.363	119	200644	9.201	ug/L	99
103)	n-Butylbenzene	12.418	91	316278	10.557	ug/L	99
104)	1,2-Dichlorobenzene	12.569	146	179982	9.591	ug/L	98
105)	1,2,4,5-Tetramethylben...	13.152	119	333965	9.298	ug/L	100
106)	1,2-Dibromo-3-chloropr...	13.344	155	9772	8.939	ug/L	98
107)	1,3,5-Trichlorobenzene	13.378	180	133346	9.437	ug/L	98
108)	Hexachlorobutadiene	13.955	225	56463	9.187	ug/L	98
109)	1,2,4-Trichlorobenzene	13.975	180	114454	9.292	ug/L	97
110)	Naphthalene	14.263	128	220300	9.531	ug/L	100
111)	1,2,3-Trichlorobenzene	14.435	180	99748	9.023	ug/L	99

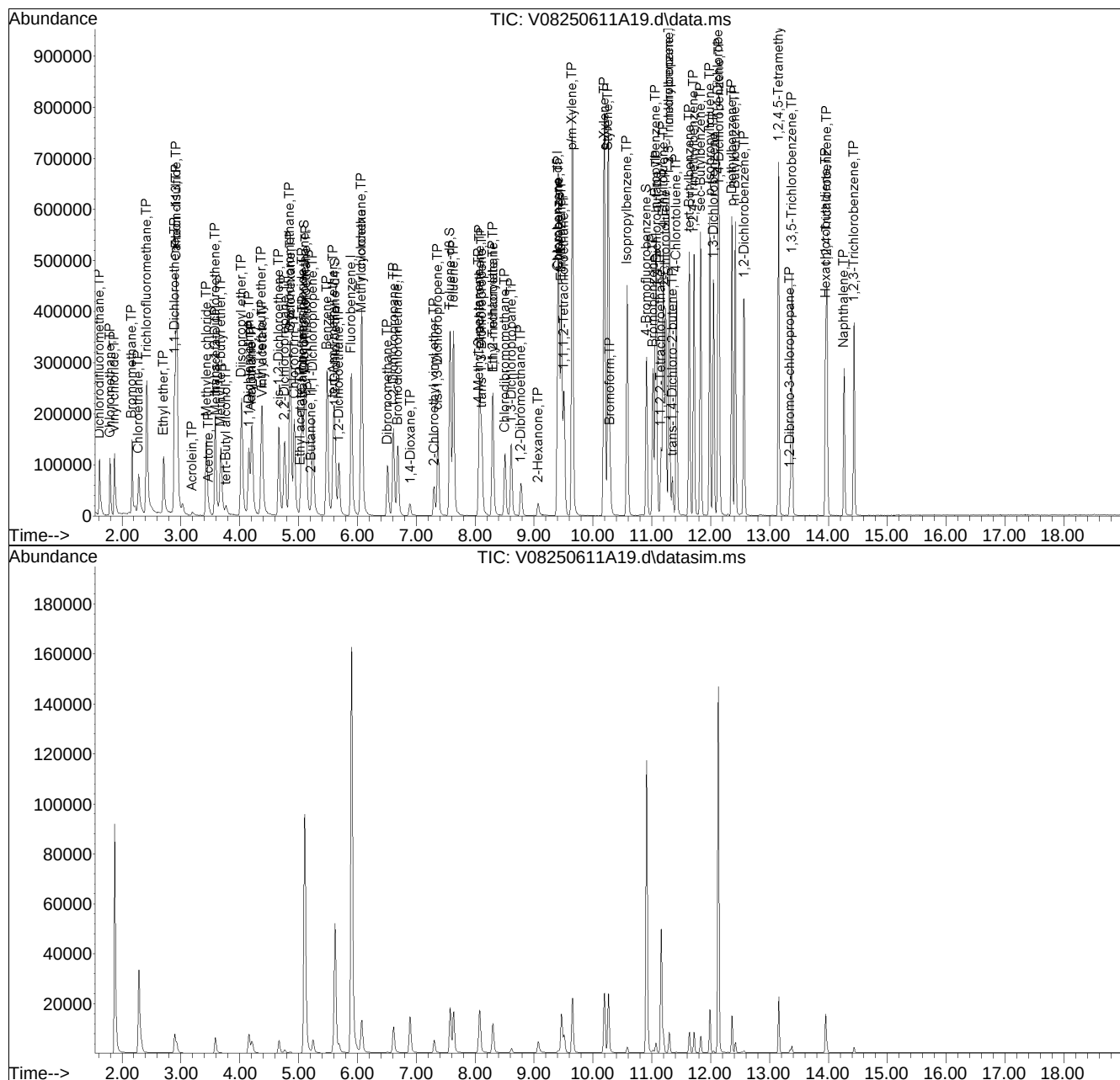
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

Data Path : K:\VOA108\2025\250611AICAL\
Data File : V08250611A19.d
Acq On : 11 Jun 2025 9:38 am
Operator : VOA108:PID
Sample : C8260STD10PPB
Misc : WG2077605,ICAL (Sig #1); WG,ICAL22328 (Sig #2)
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 11 15:03:01 2025
Quant Method : K:\VOA108\2025\250611AICAL\V108_250611A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 11 15:00:39 2025
Response via : Initial Calibration

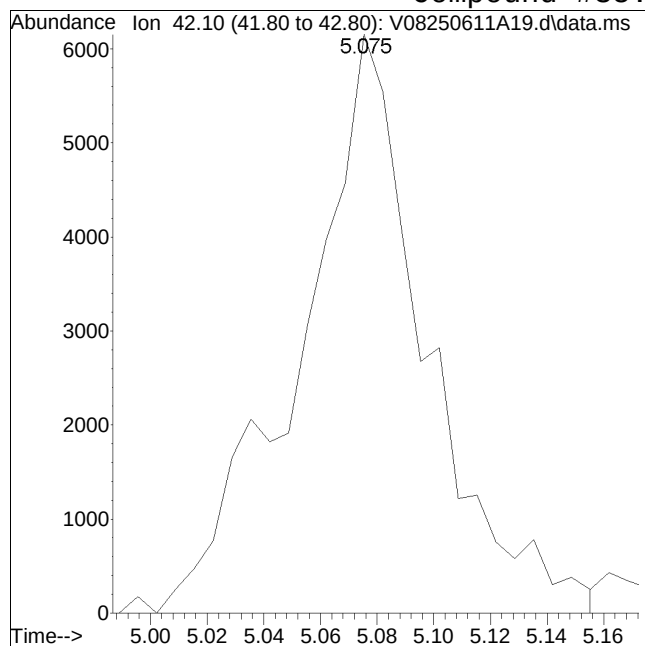
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane



Manual Integration Report

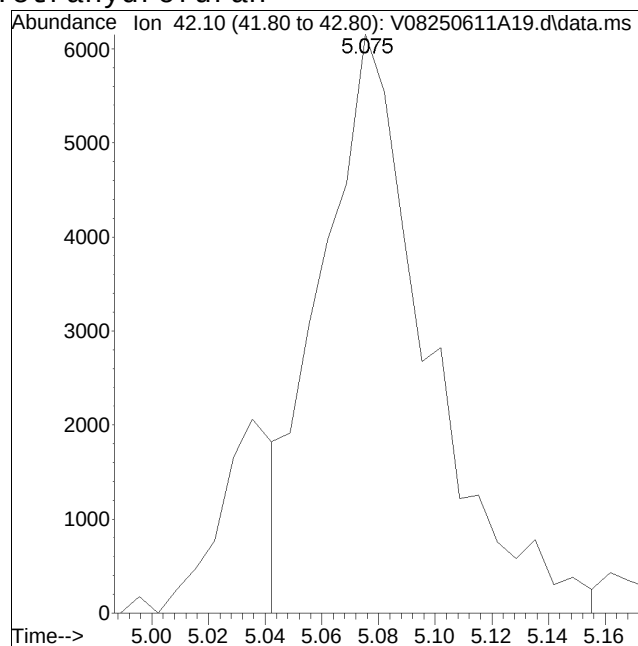
Data Path : K:\V0A108\2025\250611AICALQ Method : V108_250611A_8260.m
Data File : V08250611A19.d Operator : V0A108:PID
Date Inj'd : 6/11/2025 9:38 am Instrument : V0A 108
Sample : C8260STD10PPB Quant Date : 6/11/2025 3:01 pm

Compound #35: Tetrahydrofuran



Original Peak Response = 18897

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

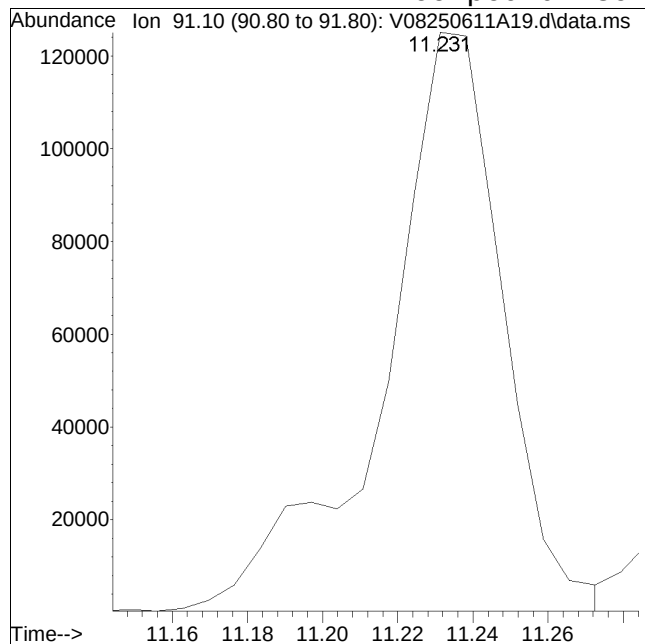


Manual Peak Response = 16088 M6

Manual Integration Report

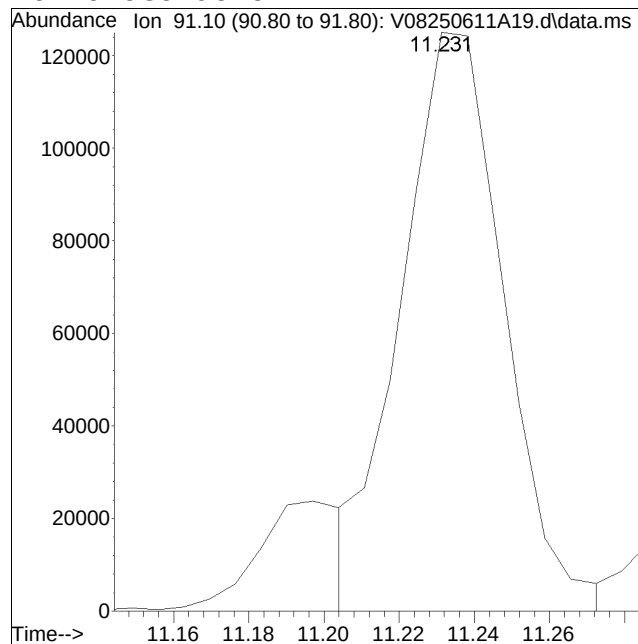
Data Path : K:\V0A108\2025\250611AICALQMethod : V108_250611A_8260.m
Data File : V08250611A19.dOperator : V0A108:PID
Date Inj'd : 6/11/2025 9:38 amInstrument : V0A 108
Sample : C8260STD10PPBQuant Date : 6/11/2025 3:01 pm

Compound #89: 2-Chlorotoluene



Original Peak Response = 272529

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

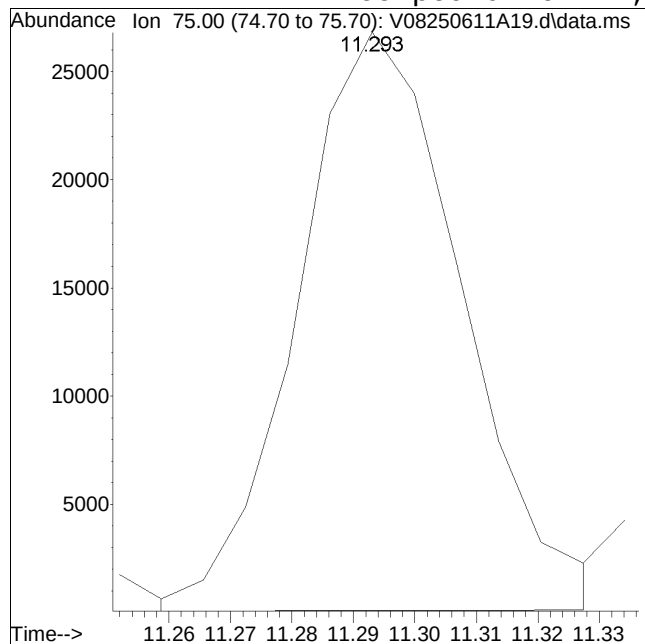


Manual Peak Response = 236873 M6

Manual Integration Report

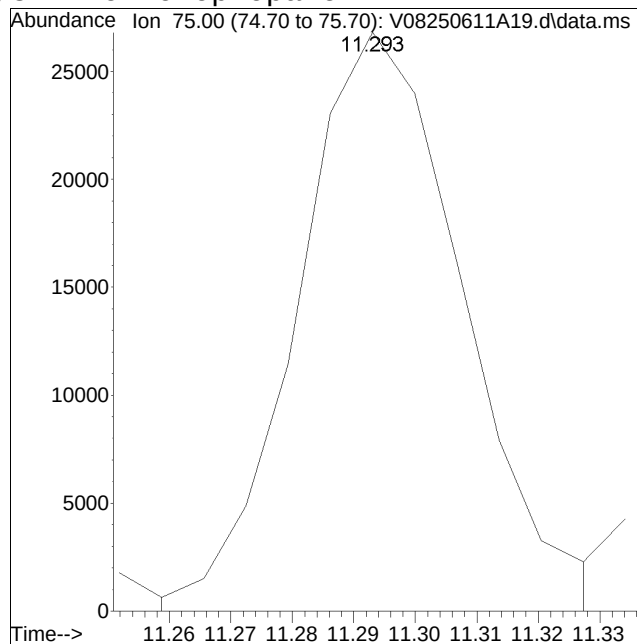
Data Path : K:\V0A108\2025\250611AICALQ Method : V108_250611A_8260.m
Data File : V08250611A19.d Operator : V0A108:PID
Date Inj'd : 6/11/2025 9:38 am Instrument : V0A 108
Sample : C8260STD10PPB Quant Date : 6/11/2025 3:01 pm

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 49543

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.



Manual Peak Response = 49932 M1

Method Path : K:\VOA108\2025\250611AICAL\
 Method File : V108_250611A_8260.m
 Title : VOLATILES BY GC/MS
 Last Update : Wed Jun 11 15:00:39 2025

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
76 TP	p/m Xylene	Q	ug/L	20.0	18.965	-5.2	1.00	1.150	15.0
78 TP	Styrene	Q	ug/L	20.0	17.410	-13.0	1.00	1.298	29.8
99 TP	p-Isopropyltoluene	L	ug/L	10.0	9.473	-5.3	0.50	0.598	19.6
106 TP	1,2-Dibromo-3-chloropropane	L	ug/L	10.0	10.808	8.1	0.50	0.461	-7.8

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
76 TP	p/m Xylene	Quadratic	0.998611	0.002886	0.685773	-0.03795
78 TP	Styrene	Quadratic	0.997080	0.001728	1.23346	-0.0947519
99 TP	p-Isopropyltoluene	Linear	0.997570	0.000000	2.89042	-0.0972698
106 TP	1,2-Dibromo-3-chloropropane	Linear	0.995794	0.000000	0.0808152	-0.00163456

Continuing Calibration

Calibration Verification Summary

Form 7

Volatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : VOA108
 Lab File ID : V08250625A01
 Sample No : WG2084241-2
 Channel :

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Calibration Date : 06/25/25 07:06
 Init. Calib. Date(s) : 06/11/25 06/11/25
 Init. Calib. Times : 04:08 07:49

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	108	0
Dichlorodifluoromethane	0.25	0.193	-	22.8*	20	75	0
Chloromethane	0.26	0.212	-	18.5	20	84	0
Vinyl chloride	0.311	0.294	-	5.5	20	89	0
Bromomethane	0.224	0.125	-	44.2*	20	59	0
Chloroethane	0.224	0.217	-	3.1	20	93	0
Trichlorofluoromethane	0.73	0.632	-	13.4	20	83	0
Ethyl ether	0.194	0.173	-	10.8	20	95	0
1,1-Dichloroethene	0.337	0.314	-	6.8	20	106	0
Carbon disulfide	1.015	1.001	-	1.4	20	124	0
Freon-113	0.331	0.328	-	0.9	20	133	0
Acrolein	0.024	0.023	-	4.2	20	93	0
Methylene chloride	0.281	0.234	-	16.7	20	91	0
Acetone	0.05	0.048	-	4	20	100	0
trans-1,2-Dichloroethene	0.252	0.237	-	6	20	101	0
Methyl acetate	0.122	0.111	-	9	20	102	0
Methyl tert-butyl ether	0.609	0.552	-	9.4	20	97	0
tert-Butyl alcohol	0.012	0.012	-	0	20	102	0
Diisopropyl ether	0.824	0.729	-	11.5	20	94	0
1,1-Dichloroethane	0.459	0.427	-	7	20	95	0
Halothane	0.209	0.19	-	9.1	20	92	0
Acrylonitrile	0.057	0.048	-	15.8	20	81	0
Ethyl tert-butyl ether	0.647	0.582	-	10	20	102	0
Vinyl acetate	0.474	0.441	-	7	20	105	0
cis-1,2-Dichloroethene	0.289	0.27	-	6.6	20	96	0
2,2-Dichloropropane	0.346	0.371	-	-7.2	20	117	0
Bromochloromethane	0.167	0.147	-	12	20	98	0
Cyclohexane	0.374	0.32	-	14.4	20	88	0
Chloroform	0.515	0.458	-	11.1	20	95	0
Ethyl acetate	0.184	0.169	-	8.2	20	98	0
Carbon tetrachloride	0.419	0.389	-	7.2	20	99	0
Tetrahydrofuran	0.058	0.051	-	12.1	20	90	0
Dibromofluoromethane	0.322	0.31	-	3.7	20	107	0
1,1,1-Trichloroethane	0.428	0.419	-	2.1	20	99	0
2-Butanone	0.075	0.062	-	17.3	20	93	-.01
1,1-Dichloropropene	0.322	0.287	-	10.9	20	93	0
Benzene	1.017	0.907	-	10.8	20	92	0
tert-Amyl methyl ether	0.573	0.532	-	7.2	20	102	0
1,2-Dichloroethane-d4	0.308	0.306	-	0.6	20	108	0
1,2-Dichloroethane	0.315	0.299	-	5.1	20	100	0
Methyl cyclohexane	0.381	0.313	-	17.8	20	96	0
Trichloroethene	0.28	0.263	-	6.1	20	103	0
Dibromomethane	0.156	0.15	-	3.8	20	100	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : VOA108
 Lab File ID : V08250625A01
 Sample No : WG2084241-2
 Channel :

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Calibration Date : 06/25/25 07:06
 Init. Calib. Date(s) : 06/11/25 06/11/25
 Init. Calib. Times : 04:08 07:49

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dichloropropane	0.242	0.218	-	9.9	20	95	0
2-Chloroethyl vinyl ether	0.115	0.089	-	22.6*	20	89	0
Bromodichloromethane	0.36	0.346	-	3.9	20	104	0
1,4-Dioxane	0.00137	0.00149*	-	-8.8	20	109	0
cis-1,3-Dichloropropene	0.363	0.36	-	0.8	20	104	0
Chlorobenzene-d5	1	1	-	0	20	109	0
Toluene-d8	1.222	1.255	-	-2.7	20	106	0
Toluene	0.763	0.756	-	0.9	20	101	0
4-Methyl-2-pentanone	0.063	0.054	-	14.3	20	88	-.01
Tetrachloroethene	0.359	0.35	-	2.5	20	101	0
trans-1,3-Dichloropropene	0.379	0.406	-	-7.1	20	105	0
Ethyl methacrylate	0.288	0.245	-	14.9	20	92	0
1,1,2-Trichloroethane	0.215	0.206	-	4.2	20	98	0
Chlorodibromomethane	0.355	0.367	-	-3.4	20	109	0
1,3-Dichloropropane	0.411	0.414	-	-0.7	20	99	0
1,2-Dibromoethane	0.233	0.251	-	-7.7	20	103	0
2-Hexanone	0.131	0.114	-	13	20	96	0
Chlorobenzene	0.954	0.935	-	2	20	104	0
Ethylbenzene	1.529	1.49	-	2.6	20	101	0
1,1,1,2-Tetrachloroethane	0.363	0.382	-	-5.2	20	111	0
p/m Xylene	20	18.509	-	7.5	20	106	0
o Xylene	0.661	0.601	-	9.1	20	105	0
Styrene	20	16.327	-	18.4	20	102	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	106	0
Bromoform	0.38	0.377	-	0.8	20	110	0
Isopropylbenzene	2.644	2.737	-	-3.5	20	107	0
4-Bromofluorobenzene	0.682	0.739	-	-8.4	20	108	0
Bromobenzene	0.731	0.739	-	-1.1	20	105	0
n-Propylbenzene	3.1	3.199	-	-3.2	20	104	0
1,4-Dichlorobutane	0.659	0.669	-	-1.5	20	100	0
1,1,2,2-Tetrachloroethane	0.5	0.524	-	-4.8	20	100	0
4-Ethyltoluene	2.572	2.773	-	-7.8	20	109	0
2-Chlorotoluene	1.8	1.947	-	-8.2	20	108	0
1,3,5-Trimethylbenzene	2.338	2.427	-	-3.8	20	109	0
1,2,3-Trichloropropane	0.414	0.437	-	-5.6	20	108	0
trans-1,4-Dichloro-2-buten	0.12	0.129	-	-7.5	20	108	0
4-Chlorotoluene	1.832	1.977	-	-7.9	20	109	0
tert-Butylbenzene	1.981	2.073	-	-4.6	20	110	0
1,2,4-Trimethylbenzene	2.288	2.379	-	-4	20	107	0
sec-Butylbenzene	2.91	3.053	-	-4.9	20	105	0
p-Isopropyltoluene	10	9.768	-	2.3	20	109	0
1,3-Dichlorobenzene	1.476	1.539	-	-4.3	20	111	0
1,4-Dichlorobenzene	1.503	1.53	-	-1.8	20	109	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Volatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : VOA108
 Lab File ID : V08250625A01
 Sample No : WG2084241-2
 Channel :

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Calibration Date : 06/25/25 07:06
 Init. Calib. Date(s) : 06/11/25 06/11/25
 Init. Calib. Times : 04:08 07:49

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
p-Diethylbenzene	1.575	1.582	-	-0.4	20	111	0
n-Butylbenzene	2.165	2.367	-	-9.3	20	111	0
1,2-Dichlorobenzene	1.356	1.439	-	-6.1	20	108	0
1,2,4,5-Tetramethylbenzene	2.595	2.498	-	3.7	20	108	0
1,2-Dibromo-3-chloropropan	10	11.203	-	-12	20	110	0
1,3,5-Trichlorobenzene	1.021	1.077	-	-5.5	20	111	0
Hexachlorobutadiene	0.444	0.441	-	0.7	20	107	0
1,2,4-Trichlorobenzene	0.89	0.918	-	-3.1	20	109	0
Naphthalene	1.67	1.813	-	-8.6	20	109	0
1,2,3-Trichlorobenzene	0.799	0.81	-	-1.4	20	107	0

* Value outside of QC limits.



Evaluate Continuing Calibration Report

Data Path : K:\VOA108\2025\250625A\
 Data File : V08250625A01.d
 Acq On : 25 Jun 2025 7:06 am
 Operator : VOA108:PID
 Sample : WG2084241-2 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG2084241,ICAL22356 (Sig #1); WG,ICAL22356 (Sig #2)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 25 07:36:21 2025
 Quant Method : K:\VOA108\2025\250625A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	108	0.00
2 TP	Dichlorodifluoromethane	0.250	0.193	22.8#	75	0.00
3 TP	Chloromethane	0.260	0.212	18.5	84	0.00
4 TP	Vinyl chloride	0.311	0.294	5.5	89	0.00
5 TP	Bromomethane	0.224	0.125	44.2#	59	0.00
6 TP	Chloroethane	0.224	0.217	3.1	93	0.00
7 TP	Trichlorofluoromethane	0.730	0.632	13.4	83	0.00
8 TP	Ethyl ether	0.194	0.173	10.8	95	0.00
10 TP	1,1-Dichloroethene	0.337	0.314	6.8	106	0.00
11 TP	Carbon disulfide	1.015	1.001	1.4	124	0.00
12 TP	Freon-113	0.331	0.328	0.9	133	0.00
14 TP	Acrolein	0.024	0.023	4.2	93	0.00
15 TP	Methylene chloride	0.281	0.234	16.7	91	0.00
17 TP	Acetone	0.050	0.048	4.0	100	0.00
18 TP	trans-1,2-Dichloroethene	0.252	0.237	6.0	101	0.00
19 TP	Methyl acetate	0.122	0.111	9.0	102	0.00
20 TP	Methyl tert-butyl ether	0.609	0.552	9.4	97	0.00
21 TP	tert-Butyl alcohol	0.012	0.012	0.0	102	0.00
22 TP	Diisopropyl ether	0.824	0.729	11.5	94	0.00
23 TP	1,1-Dichloroethane	0.459	0.427	7.0	95	0.00
24 TP	Halothane	0.209	0.190	9.1	92	0.00
25 TP	Acrylonitrile	0.057	0.048	15.8	81	0.00
26 TP	Ethyl tert-butyl ether	0.647	0.582	10.0	102	0.00
27 TP	Vinyl acetate	0.474	0.441	7.0	105	0.00
28 TP	cis-1,2-Dichloroethene	0.289	0.270	6.6	96	0.00
29 TP	2,2-Dichloropropane	0.346	0.371	-7.2	117	0.00
30 TP	Bromochloromethane	0.167	0.147	12.0	98	0.00
31 TP	Cyclohexane	0.374	0.320	14.4	88	0.00
32 TP	Chloroform	0.515	0.458	11.1	95	0.00
33 TP	Ethyl acetate	0.184	0.169	8.2	98	0.00
34 TP	Carbon tetrachloride	0.419	0.389	7.2	99	0.00
35 TP	Tetrahydrofuran	0.058	0.051	12.1	90	0.00
36 S	Dibromofluoromethane	0.322	0.310	3.7	107	0.00
37 TP	1,1,1-Trichloroethane	0.428	0.419	2.1	99	0.00
39 TP	2-Butanone	0.075	0.062	17.3	93	-0.01
40 TP	1,1-Dichloropropene	0.322	0.287	10.9	93	0.00
41 TP	Benzene	1.017	0.907	10.8	92	0.00
42 TP	tert-Amyl methyl ether	0.573	0.532	7.2	102	0.00
43 S	1,2-Dichloroethane-d4	0.308	0.306	0.6	108	0.00

Evaluate Continuing Calibration Report

Data Path : K:\VOA108\2025\250625A\
 Data File : V08250625A01.d
 Acq On : 25 Jun 2025 7:06 am
 Operator : VOA108:PID
 Sample : WG2084241-2 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG2084241,ICAL22356 (Sig #1); WG,ICAL22356 (Sig #2)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 25 07:36:21 2025
 Quant Method : K:\VOA108\2025\250625A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44 TP	1,2-Dichloroethane	0.315	0.299	5.1	100	0.00
47 TP	Methyl cyclohexane	0.381	0.313	17.8	96	0.00
48 TP	Trichloroethene	0.280	0.263	6.1	103	0.00
50 TP	Dibromomethane	0.156	0.150	3.8	100	0.00
51 TP	1,2-Dichloropropane	0.242	0.218	9.9	95	0.00
53 TP	2-Chloroethyl vinyl ether	0.115	0.089	22.6#	89	0.00
54 TP	Bromodichloromethane	0.360	0.346	3.9	104	0.00
57 TP	1,4-Dioxane	0.00137	0.00149#	-8.8	109	0.00
58 TP	cis-1,3-Dichloropropene	0.363	0.360	0.8	104	0.00
59 I	Chlorobenzene-d5	1.000	1.000	0.0	109	0.00
60 S	Toluene-d8	1.222	1.255	-2.7	106	0.00
61 TP	Toluene	0.763	0.756	0.9	101	0.00
62 TP	4-Methyl-2-pentanone	0.063	0.054	14.3	88	-0.01
63 TP	Tetrachloroethene	0.359	0.350	2.5	101	0.00
65 TP	trans-1,3-Dichloropropene	0.379	0.406	-7.1	105	0.00
67 TP	Ethyl methacrylate	0.288	0.245	14.9	92	0.00
68 TP	1,1,2-Trichloroethane	0.215	0.206	4.2	98	0.00
69 TP	Chlorodibromomethane	0.355	0.367	-3.4	109	0.00
70 TP	1,3-Dichloropropane	0.411	0.414	-0.7	99	0.00
71 TP	1,2-Dibromoethane	0.233	0.251	-7.7	103	0.00
72 TP	2-Hexanone	0.131	0.114	13.0	96	0.00
73 TP	Chlorobenzene	0.954	0.935	2.0	104	0.00
74 TP	Ethylbenzene	1.529	1.490	2.6	101	0.00
75 TP	1,1,1,2-Tetrachloroethane	0.363	0.382	-5.2	111	0.00
76 TP	p/m Xylene	* 20.000	18.509	7.5	106	0.00
77 TP	o Xylene	0.661	0.601	9.1	105	0.00
78 TP	Styrene	* 20.000	16.327	18.4	102	0.00
79 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	106	0.00
80 TP	Bromoform	0.380	0.377	0.8	110	0.00
82 TP	Isopropylbenzene	2.644	2.737	-3.5	107	0.00
83 S	4-Bromofluorobenzene	0.682	0.739	-8.4	108	0.00
84 TP	Bromobenzene	0.731	0.739	-1.1	105	0.00
85 TP	n-Propylbenzene	3.100	3.199	-3.2	104	0.00
86 TP	1,4-Dichlorobutane	0.659	0.669	-1.5	100	0.00
87 TP	1,1,2,2-Tetrachloroethane	0.500	0.524	-4.8	100	0.00
88 TP	4-Ethyltoluene	2.572	2.773	-7.8	109	0.00
89 TP	2-Chlorotoluene	1.800	1.947	-8.2	108	0.00

Evaluate Continuing Calibration Report

Data Path : K:\VOA108\2025\250625A\
 Data File : V08250625A01.d
 Acq On : 25 Jun 2025 7:06 am
 Operator : VOA108:PID
 Sample : WG2084241-2 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG2084241,ICAL22356 (Sig #1); WG,ICAL22356 (Sig #2)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 25 07:36:21 2025
 Quant Method : K:\VOA108\2025\250625A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
90 TP	1,3,5-Trimethylbenzene	2.338	2.427	-3.8	109	0.00
91 TP	1,2,3-Trichloropropane	0.414	0.437	-5.6	108	0.00
92 TP	trans-1,4-Dichloro-2-butene	0.120	0.129	-7.5	108	0.00
93 TP	4-Chlorotoluene	1.832	1.977	-7.9	109	0.00
94 TP	tert-Butylbenzene	1.981	2.073	-4.6	110	0.00
97 TP	1,2,4-Trimethylbenzene	2.288	2.379	-4.0	107	0.00
98 TP	sec-Butylbenzene	2.910	3.053	-4.9	105	0.00
99 TP	p-Isopropyltoluene	* 10.000	9.768	2.3	109	0.00
100 TP	1,3-Dichlorobenzene	1.476	1.539	-4.3	111	0.00
101 TP	1,4-Dichlorobenzene	1.503	1.530	-1.8	109	0.00
102 TP	p-Diethylbenzene	1.575	1.582	-0.4	111	0.00
103 TP	n-Butylbenzene	2.165	2.367	-9.3	111	0.00
104 TP	1,2-Dichlorobenzene	1.356	1.439	-6.1	108	0.00
105 TP	1,2,4,5-Tetramethylbenzene	2.595	2.498	3.7	108	0.00
106 TP	1,2-Dibromo-3-chloropropane	* 10.000	11.203	-12.0	110	0.00
107 TP	1,3,5-Trichlorobenzene	1.021	1.077	-5.5	111	0.00
108 TP	Hexachlorobutadiene	0.444	0.441	0.7	107	0.00
109 TP	1,2,4-Trichlorobenzene	0.890	0.918	-3.1	109	0.00
110 TP	Naphthalene	1.670	1.813	-8.6	109	0.00
111 TP	1,2,3-Trichlorobenzene	0.799	0.810	-1.4	107	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 1 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250625A\
 Data File : V08250625A01.d
 Acq On : 25 Jun 2025 7:06 am
 Operator : VOA108:PID
 Sample : WG2084241-2 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG2084241, ICAL22356 (Sig #1); WG, ICAL22356 (Sig #2)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 25 07:36:21 2025
 Quant Method : K:\VOA108\2025\250625A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.899	96	305323	10.000	ug/L	0.00
59) Chlorobenzene-d5	9.409	117	230501	10.000	ug/L	0.00
79) 1,4-Dichlorobenzene-d4	12.130	152	131049	10.000	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	5.102	113	94584	9.617	ug/L	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	96.17%	
43) 1,2-Dichloroethane-d4	5.618	65	93400	9.942	ug/L	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	99.42%	
60) Toluene-d8	7.575	98	289251	10.268	ug/L	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	102.68%	
83) 4-Bromofluorobenzene	10.909	95	96824	10.837	ug/L	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	108.37%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.617	85	58866	7.699	ug/L	99
3) Chloromethane	1.803	50	64717	8.142	ug/L	99
4) Vinyl chloride	1.876	62	89762	9.468	ug/L	96
5) Bromomethane	2.169	94	38165	5.578	ug/L	98
6) Chloroethane	2.282	64	66329	9.708	ug/L	98
7) Trichlorofluoromethane	2.422	101	192920	8.661	ug/L	99
8) Ethyl ether	2.708	74	52927	8.947	ug/L	98
10) 1,1-Dichloroethene	2.894	96	95878	9.309	ug/L	95
11) Carbon disulfide	2.927	76	305567	9.856	ug/L	98
12) Freon-113	2.927	101	100182	9.910	ug/L	95
14) Acrolein	3.200	56	7099	9.740	ug/L	94
15) Methylene chloride	3.439	84	71504	8.331	ug/L	97
17) Acetone	3.472	43	14734	9.619	ug/L	97
18) trans-1,2-Dichloroethene	3.585	96	72232	9.380	ug/L	95
19) Methyl acetate	3.585	43	33997	9.142	ug/L	97
20) Methyl tert-butyl ether	3.679	73	168435	9.054	ug/L	97
21) tert-Butyl alcohol	3.765	59	17871	47.927	ug/L	90
22) Diisopropyl ether	4.038	45	222431	8.841	ug/L	98
23) 1,1-Dichloroethane	4.151	63	130241	9.289	ug/L	98
24) Halothane	4.204	117	57995	9.105	ug/L	97
25) Acrylonitrile	4.197	53	14712	8.468	ug/L	# 81
26) Ethyl tert-butyl ether	4.377	59	177746	8.994	ug/L	98
27) Vinyl acetate	4.384	43	134779	9.312	ug/L	99
28) cis-1,2-Dichloroethene	4.670	96	82541	9.368	ug/L	99
29) 2,2-Dichloropropane	4.769	77	113424	10.751	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250625A\
 Data File : V08250625A01.d
 Acq On : 25 Jun 2025 7:06 am
 Operator : VOA108:PID
 Sample : WG2084241-2 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG2084241, ICAL22356 (Sig #1); WG, ICAL22356 (Sig #2)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 25 07:36:21 2025
 Quant Method : K:\VOA108\2025\250625A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
30)	Bromochloromethane	4.856	128	44892	8.815	ug/L	94
31)	Cyclohexane	4.862	56	97591	8.541	ug/L	91
32)	Chloroform	4.929	83	139934	8.906	ug/L	96
33)	Ethyl acetate	5.035	43	51728	9.215	ug/L	100
34)	Carbon tetrachloride	5.062	117	118627	9.274	ug/L	96
35)	Tetrahydrofuran	5.075	42	15559M6	8.856	ug/L	
37)	1,1,1-Trichloroethane	5.122	97	127913	9.785	ug/L	98
39)	2-Butanone	5.208	43	19079	8.326	ug/L	99
40)	1,1-Dichloropropene	5.241	75	87586	8.900	ug/L	97
41)	Benzene	5.488	78	276817	8.915	ug/L	99
42)	tert-Amyl methyl ether	5.591	73	162330	9.284	ug/L	95
44)	1,2-Dichloroethane	5.687	62	91320	9.491	ug/L	99
47)	Methyl cyclohexane	6.070	83	95708	8.227	ug/L	96
48)	Trichloroethene	6.077	95	80212	9.376	ug/L	98
50)	Dibromomethane	6.508	93	45896	9.632	ug/L	96
51)	1,2-Dichloropropane	6.610	63	66699	9.036	ug/L	97
53)	2-Chloroethyl vinyl ether	7.302	63	27244	7.751	ug/L	93
54)	Bromodichloromethane	6.686	83	105752	9.614	ug/L	99
57)	1,4-Dioxane	6.891	88	22675	540.165	ug/L	99
58)	cis-1,3-Dichloropropene	7.370	75	109980	9.932	ug/L	99
61)	Toluene	7.630	92	174201	9.906	ug/L	100
62)	4-Methyl-2-pentanone	8.054	58	12379	8.589	ug/L	97
63)	Tetrachloroethene	8.082	166	80756	9.763	ug/L	98
65)	trans-1,3-Dichloropropene	8.109	75	93559	10.704	ug/L	93
67)	Ethyl methacrylate	8.301	69	56554	8.533	ug/L	92
68)	1,1,2-Trichloroethane	8.294	83	47439	9.587	ug/L	98
69)	Chlorodibromomethane	8.506	129	84592	10.344	ug/L	99
70)	1,3-Dichloropropane	8.615	76	95481	10.082	ug/L	96
71)	1,2-Dibromoethane	8.780	107	57794	10.742	ug/L	98
72)	2-Hexanone	9.067	43	26264	8.689	ug/L	96
73)	Chlorobenzene	9.430	112	215435	9.802	ug/L	98
74)	Ethylbenzene	9.464	91	343415	9.741	ug/L	97
75)	1,1,1,2-Tetrachloroethane	9.512	131	87959	10.509	ug/L	98
76)	p/m Xylene	9.648	106	286106	18.509	ug/L	96
77)	o Xylene	10.196	106	277122	18.195	ug/L	96
78)	Styrene	10.264	104	443432	16.327	ug/L	99
80)	Bromoform	10.292	173	49393	9.909	ug/L	99
82)	Isopropylbenzene	10.586	105	358698	10.354	ug/L	98
84)	Bromobenzene	11.018	156	96872	10.110	ug/L	99
85)	n-Propylbenzene	11.066	91	419172	10.320	ug/L	98
86)	1,4-Dichlorobutane	11.080	55	87728	10.163	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250625A\
 Data File : V08250625A01.d
 Acq On : 25 Jun 2025 7:06 am
 Operator : VOA108:PID
 Sample : WG2084241-2 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG2084241,ICAL22356 (Sig #1); WG,ICAL22356 (Sig #2)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 25 07:36:21 2025
 Quant Method : K:\VOA108\2025\250625A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
87)	1,1,2,2-Tetrachloroethane	11.155	83	68688	10.479	ug/L	99
88)	4-Ethyltoluene	11.197	105	363398	10.781	ug/L	99
89)	2-Chlorotoluene	11.238	91	255107M6	10.817	ug/L	
90)	1,3,5-Trimethylbenzene	11.293	105	318081	10.383	ug/L	99
91)	1,2,3-Trichloropropane	11.293	75	57297M1	10.561	ug/L	
92)	trans-1,4-Dichloro-2-b...	11.354	53	16856	10.700	ug/L	94
93)	4-Chlorotoluene	11.423	91	259124	10.792	ug/L	98
94)	tert-Butylbenzene	11.636	119	271676	10.467	ug/L	97
97)	1,2,4-Trimethylbenzene	11.718	105	311830	10.401	ug/L	99
98)	sec-Butylbenzene	11.828	105	400123	10.491	ug/L	98
99)	p-Isopropyltoluene	11.986	119	357234	9.768	ug/L	100
100)	1,3-Dichlorobenzene	12.047	146	201635	10.425	ug/L	99
101)	1,4-Dichlorobenzene	12.143	146	200520	10.180	ug/L	99
102)	p-Diethylbenzene	12.363	119	207357	10.043	ug/L	98
103)	n-Butylbenzene	12.418	91	310247	10.937	ug/L	99
104)	1,2-Dichlorobenzene	12.569	146	188636	10.617	ug/L	98
105)	1,2,4,5-Tetramethylben...	13.152	119	327397	9.627	ug/L	98
106)	1,2-Dibromo-3-chloropr...	13.351	155	11651	11.203	ug/L	97
107)	1,3,5-Trichlorobenzene	13.378	180	141203	10.554	ug/L	97
108)	Hexachlorobutadiene	13.954	225	57851	9.942	ug/L	97
109)	1,2,4-Trichlorobenzene	13.982	180	120247	10.311	ug/L	99
110)	Naphthalene	14.270	128	237591	10.857	ug/L	100
111)	1,2,3-Trichlorobenzene	14.435	180	106156	10.142	ug/L	99

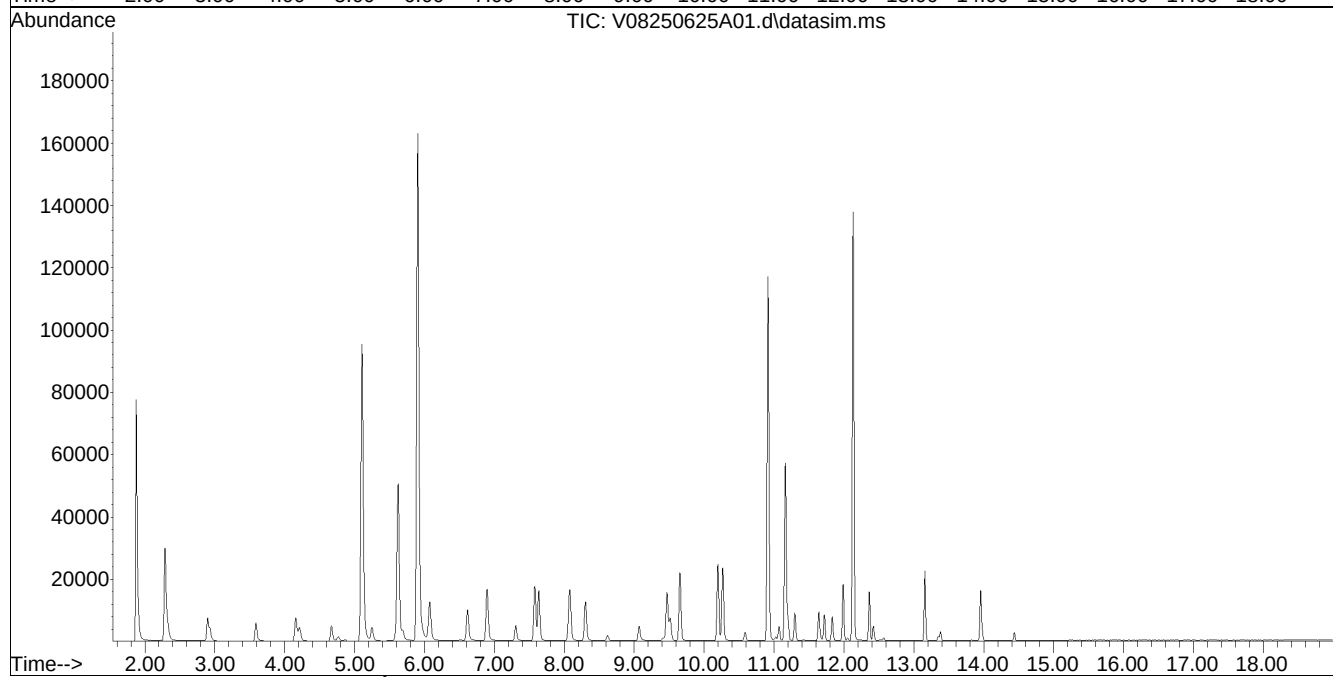
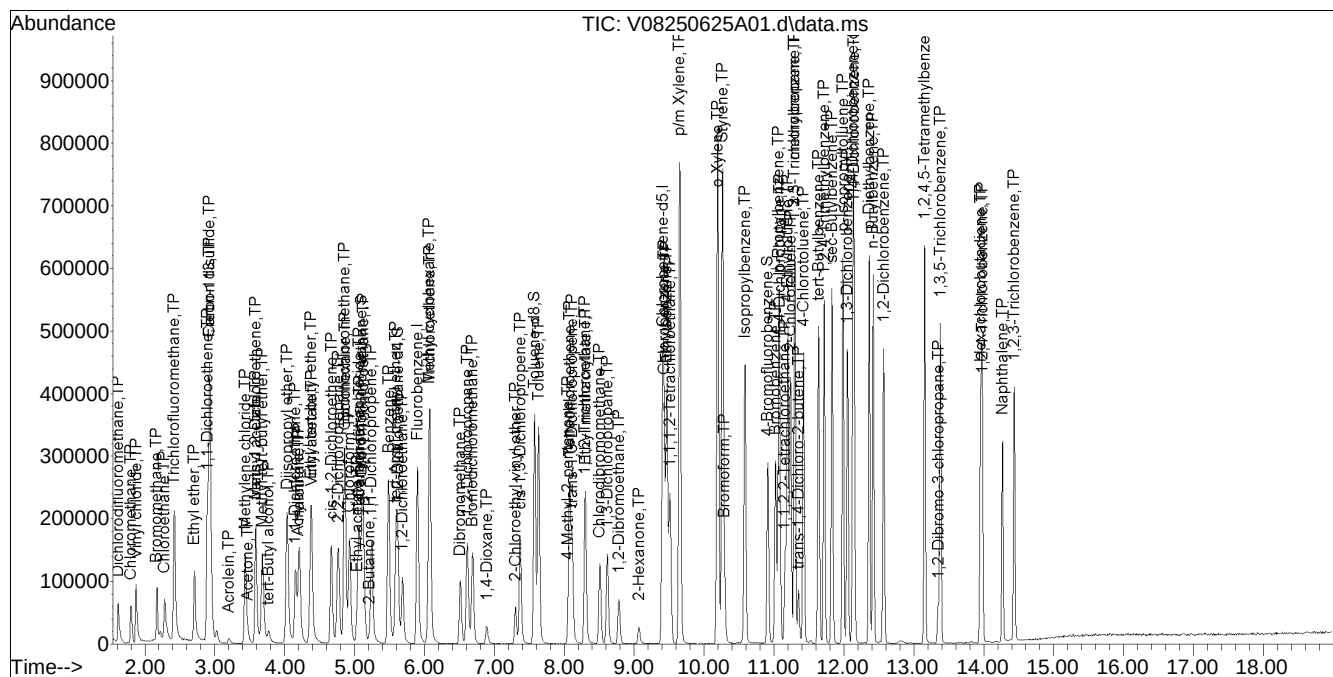
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

Data Path : K:\VOA108\2025\250625A\
Data File : V08250625A01.d
Acq On : 25 Jun 2025 7:06 am
Operator : VOA108:PID
Sample : WG2084241-2 (Sig #1); 8260 CCAL (Sig #2)
Misc : WG2084241,ICAL22356 (Sig #1); WG,ICAL22356 (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 25 07:36:21 2025
Quant Method : K:\VOA108\2025\250625A\V108_250611A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 11 15:00:39 2025
Response via : Initial Calibration

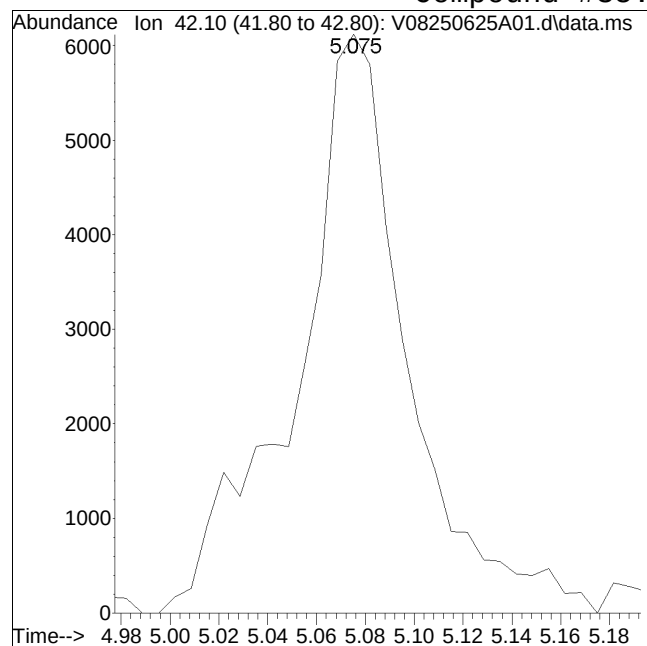
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane



Manual Integration Report

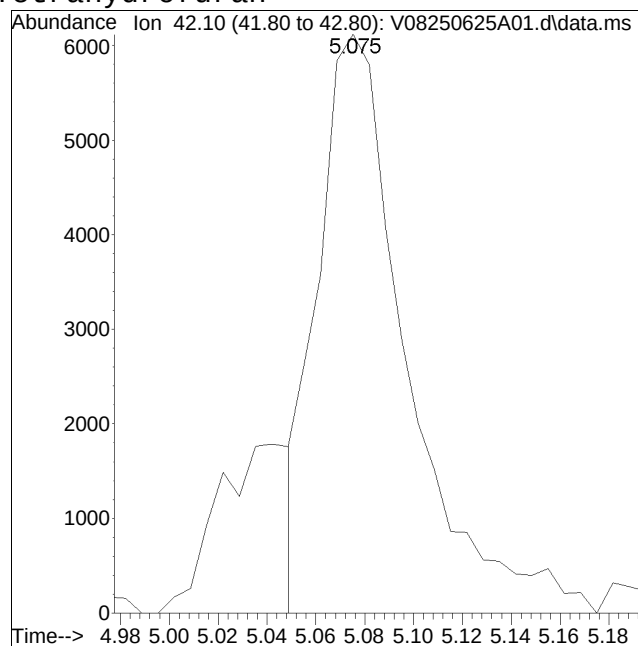
Data Path : K:\V0A108\2025\250625A\ QMethod : V108_250611A_8260.m
Data File : V08250625A01.d Operator : V0A108:PID
Date Inj'd : 6/25/2025 7:06 am Instrument : V0A 108
Sample : WG2084241-2 Quant Date : 6/25/2025 7:35 am

Compound #35: Tetrahydrofuran



Original Peak Response = 19309

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

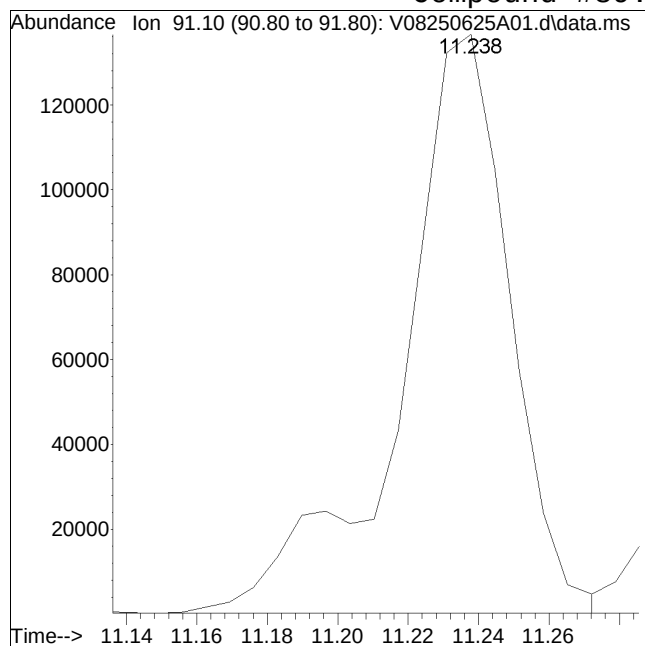


Manual Peak Response = 15559 M6

Manual Integration Report

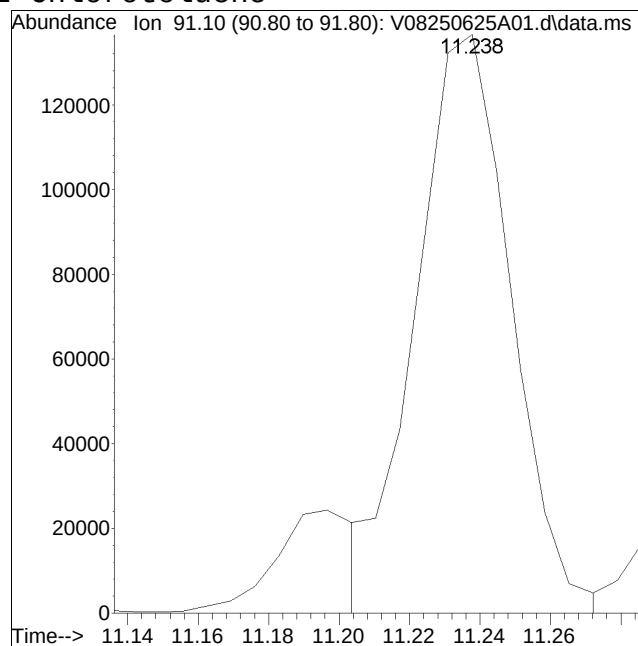
Data Path : K:\VOA108\2025\250625A\ QMethod : V108_250611A_8260.m
Data File : V08250625A01.d Operator : VOA108:PID
Date Inj'd : 6/25/2025 7:06 am Instrument : VOA 108
Sample : WG2084241-2 Quant Date : 6/25/2025 7:35 am

Compound #89: 2-Chlorotoluene



Original Peak Response = 291665

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

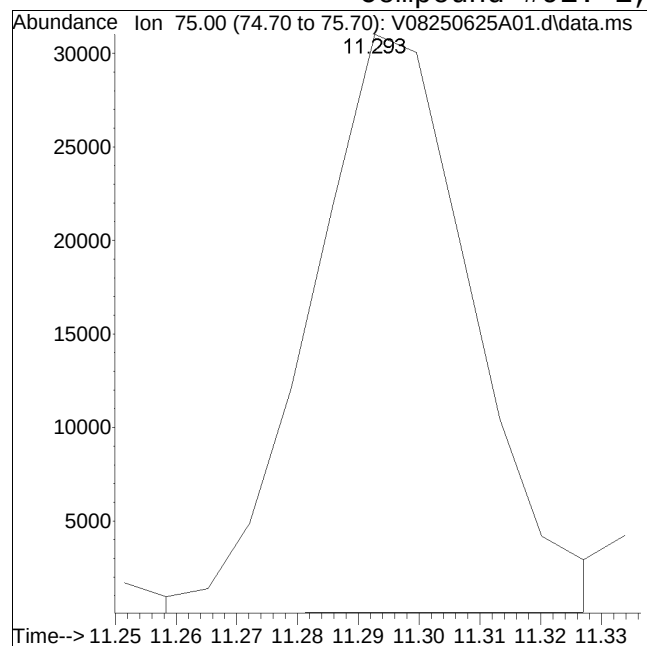


Manual Peak Response = 255107 M6

Manual Integration Report

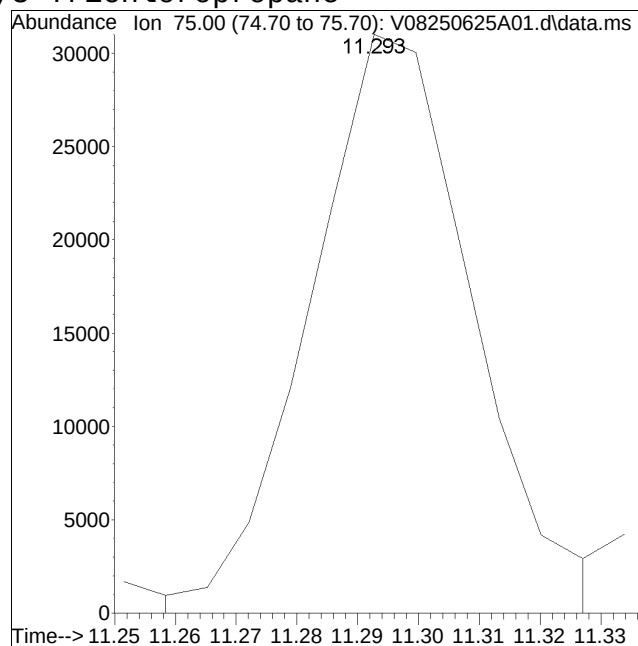
Data Path : K:\V0A108\2025\250625A\ QMethod : V108_250611A_8260.m
Data File : V08250625A01.d Operator : V0A108:PID
Date Inj'd : 6/25/2025 7:06 am Instrument : V0A 108
Sample : WG2084241-2 Quant Date : 6/25/2025 7:35 am

Compound #91: 1,2,3-Trichloropropane



Original Peak Response = 56912

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.



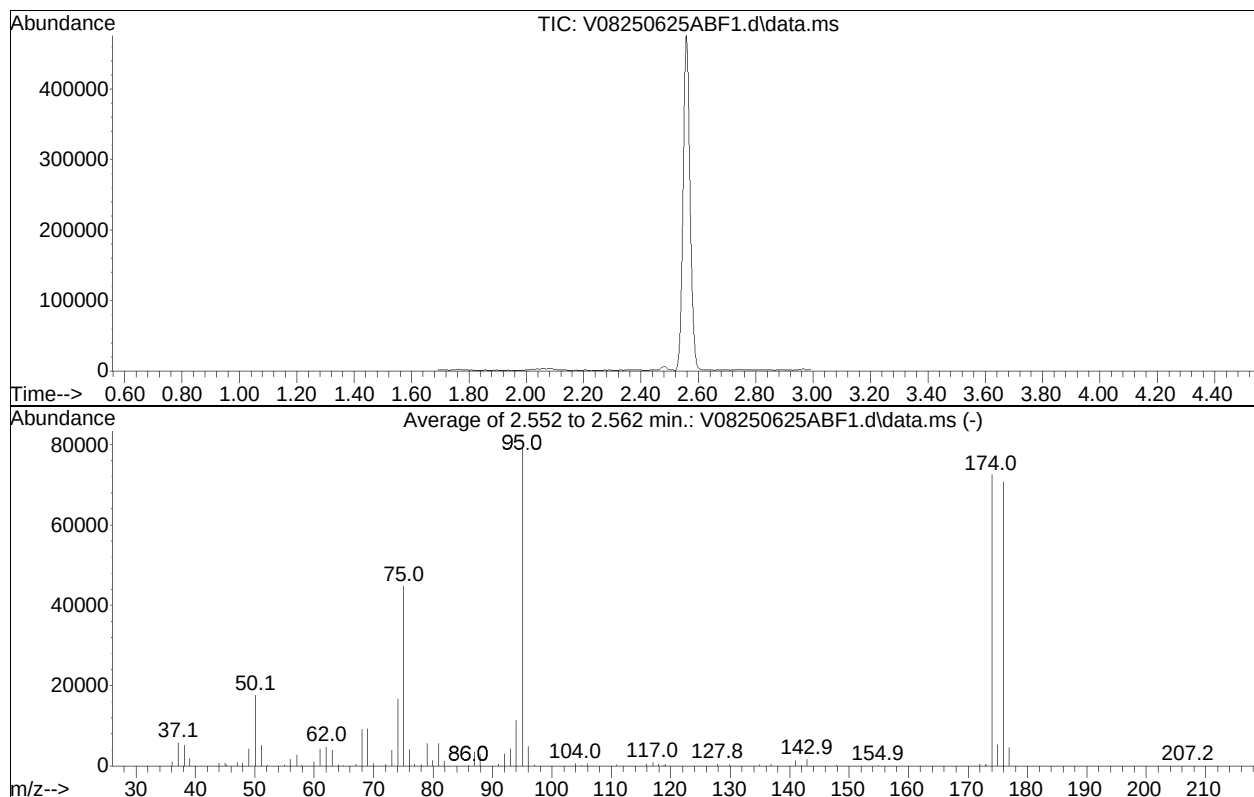
Manual Peak Response = 57297 M1

BFB

Data Path : K:\VOA108\2025\250625A\
Data File : V08250625ABF1.d
Acq On : 25 Jun 2025 6:51 am
Operator : VOA108:PID
Sample : WG2084241-1
Misc : WG2084241,ICAL22356
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : K:\VOA108\2025\250625A\V108_250611A_8260.m
Title : VOLATILES BY GC/MS
Last Update : Wed Jun 11 15:00:39 2025



Spectrum Information: Average of 2.552 to 2.562 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.2	17611	PASS
75	95	30	60	56.3	44765	PASS
95	95	100	100	100.0	79480	PASS
96	95	5	9	6.1	4812	PASS
173	174	0.00	2	0.8	579	PASS
174	95	50	100	91.4	72621	PASS
175	174	5	9	7.2	5264	PASS
176	174	95	101	97.5	70805	PASS
177	176	5	9	6.5	4572	PASS

Volatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250625A\
 Data File : V08250625A05.d
 Acq On : 25 Jun 2025 8:36 am
 Operator : VOA108:PID
 Sample : WG2084241-5,31,10,10 (Sig #1); METHOD BLK (Sig #2)
 Misc : WG2084241,ICAL22356 (Sig #1); WG,ICAL22356 (Sig #2)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 25 09:50:14 2025
 Quant Method : K:\VOA108\2025\250625A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250625A\V08250625A01.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.899	96	285267	10.000	ug/L	0.00
Standard Area 1 = 305323			Recovery =	93.43%		
59) Chlorobenzene-d5	9.409	117	212466	10.000	ug/L	0.00
Standard Area 1 = 230501			Recovery =	92.18%		
79) 1,4-Dichlorobenzene-d4	12.130	152	113964	10.000	ug/L	0.00
Standard Area 1 = 131049			Recovery =	86.96%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.102	113	91558	9.963	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.63%		
43) 1,2-Dichloroethane-d4	5.618	65	88707	10.106	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.06%		
60) Toluene-d8	7.575	98	268190	10.328	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	103.28%		
83) 4-Bromofluorobenzene	10.915	95	86220	11.097	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	110.97%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	1.796	50	66	N.D.		
4) Vinyl chloride	2.043	62	78	N.D.		
5) Bromomethane	2.169	94	502	0.079	ug/L	86
6) Chloroethane	2.355	64	126	N.D.		
7) Trichlorofluoromethane	2.575	101	71	N.D.		
10) 1,1-Dichloroethene	2.900	96	73	N.D.		
11) Carbon disulfide	2.927	76	1102	N.D.		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.446	84	580	0.072	ug/L #	79
17) Acetone	0.000		0	N.D.	d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	0.000		0	N.D.	d	
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	4.949	83	999	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250625A\
 Data File : V08250625A05.d
 Acq On : 25 Jun 2025 8:36 am
 Operator : VOA108:PID
 Sample : WG2084241-5,31,10,10 (Sig #1); METHOD BLK (Sig #2)
 Misc : WG2084241,ICAL22356 (Sig #1); WG,ICAL22356 (Sig #2)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 25 09:50:14 2025
 Quant Method : K:\VOA108\2025\250625A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250625A\V08250625A01.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37)	1,1,1-Trichloroethane	0.000		0		N.D.	
39)	2-Butanone	0.000		0		N.D.	
41)	Benzene	0.000		0		N.D.	
44)	1,2-Dichloroethane	0.000		0		N.D.	
47)	Methyl cyclohexane	0.000		0		N.D.	
48)	Trichloroethene	6.022	95	107		N.D.	
51)	1,2-Dichloropropane	0.000		0		N.D.	
54)	Bromodichloromethane	6.686	83	68		N.D.	
58)	cis-1,3-Dichloropropene	0.000		0		N.D.	
61)	Toluene	7.637	92	63		N.D.	
62)	4-Methyl-2-pentanone	0.000		0		N.D.	
63)	Tetrachloroethene	0.000		0		N.D.	
65)	trans-1,3-Dichloropropene	0.000		0		N.D.	
68)	1,1,2-Trichloroethane	0.000		0		N.D.	
69)	Chlorodibromomethane	0.000		0		N.D.	
71)	1,2-Dibromoethane	0.000		0		N.D.	
72)	2-Hexanone	0.000		0		N.D.	
73)	Chlorobenzene	9.436	112	410		N.D.	
74)	Ethylbenzene	9.477	91	205		N.D.	
76)	p/m Xylene	0.000		0		N.D.	d
77)	o Xylene	0.000		0		N.D.	
78)	Styrene	0.000		0		N.D.	d
80)	Bromoform	0.000		0		N.D.	
82)	Isopropylbenzene	10.586	105	163		N.D.	
87)	1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
100)	1,3-Dichlorobenzene	12.061	146	827		N.D.	
101)	1,4-Dichlorobenzene	12.150	146	1172		N.D.	
104)	1,2-Dichlorobenzene	12.575	146	294		N.D.	
106)	1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
109)	1,2,4-Trichlorobenzene	13.996	180	932	0.092	ug/L	#
111)	1,2,3-Trichlorobenzene	14.455	180	502		N.D.	

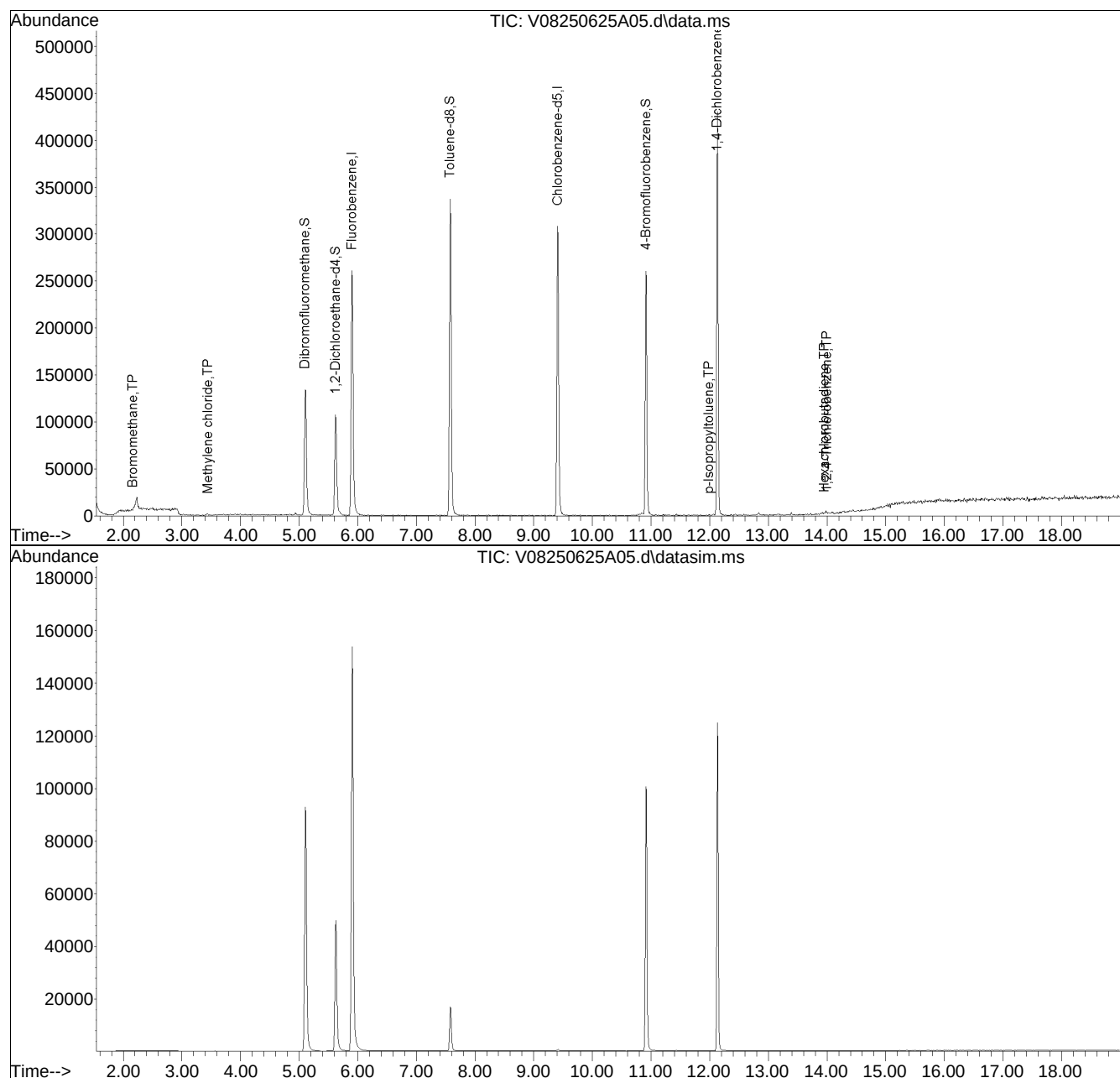
(#) = qualifier out of range (m) = manual integration (+) = signals summed

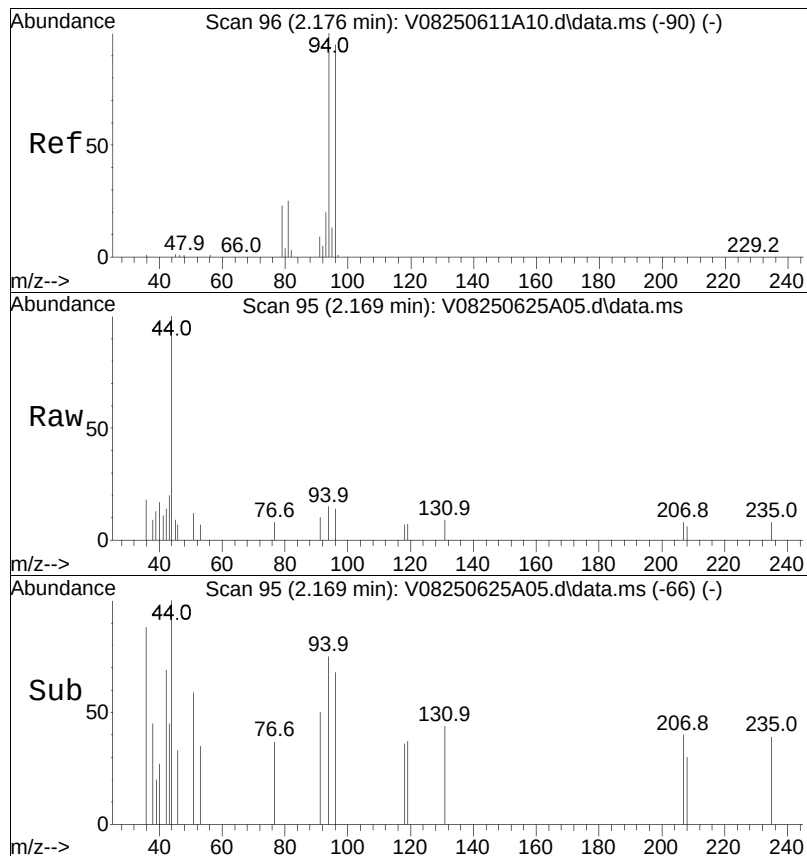
Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250625A\
 Data File : V08250625A05.d
 Acq On : 25 Jun 2025 8:36 am
 Operator : VOA108:PID
 Sample : WG2084241-5,31,10,10 (Sig #1); METHOD BLK (Sig #2)
 Misc : WG2084241,ICAL22356 (Sig #1); WG,ICAL22356 (Sig #2)
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 25 09:50:14 2025
 Quant Method : K:\VOA108\2025\250625A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

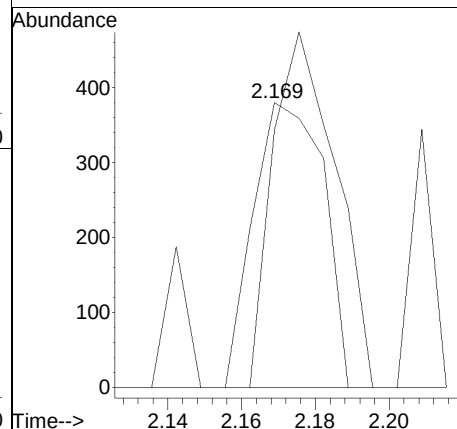
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

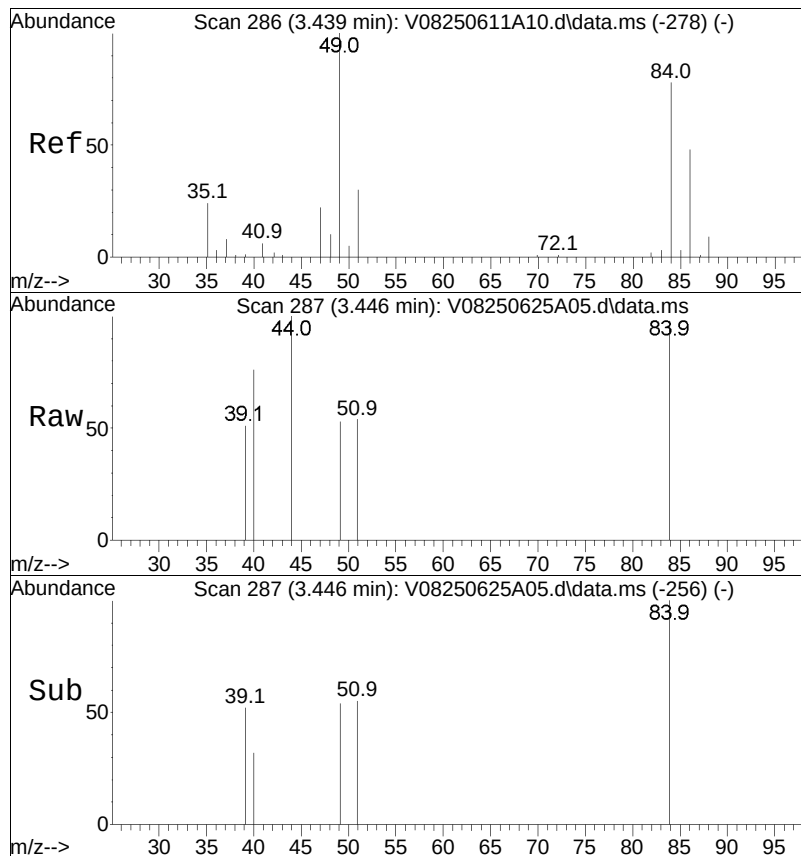




#5
 Bromomethane
 Concen: 0.08 ug/L
 RT: 2.169 min Scan# 95
 Delta R.T. -0.007 min
 Lab File: V08250625A05.d
 Acq: 25 Jun 2025 8:36 am

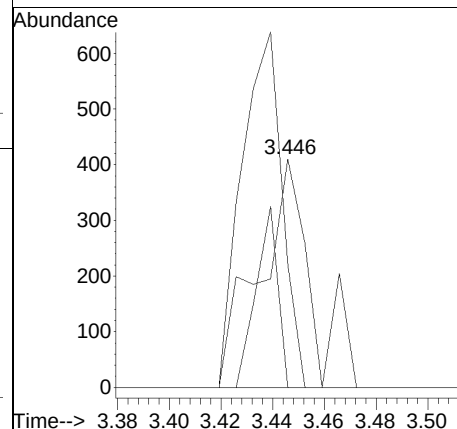
Tgt Ion	Ratio	Lower	Upper
94	100		
96	112.0	77.7	117.7

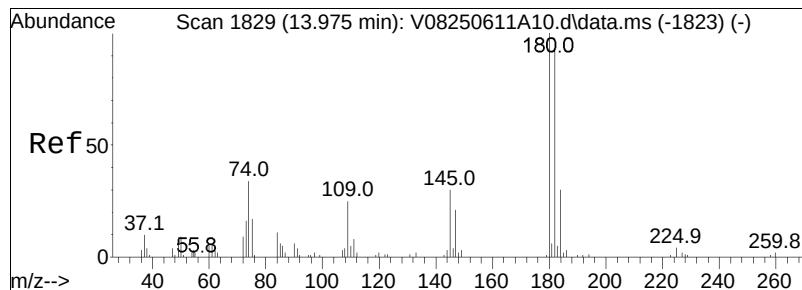




#15
Methylene chloride
Concen: 0.07 ug/L
RT: 3.446 min Scan# 287
Delta R.T. 0.007 min
Lab File: V08250625A05.d
Acq: 25 Jun 2025 8:36 am

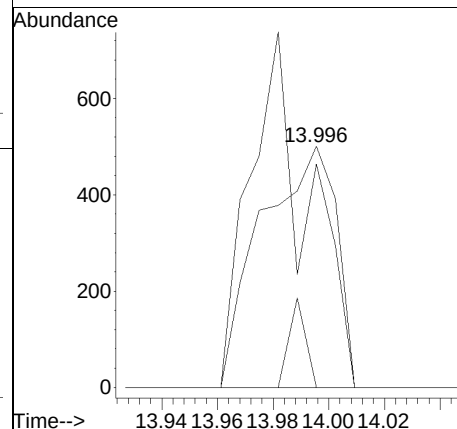
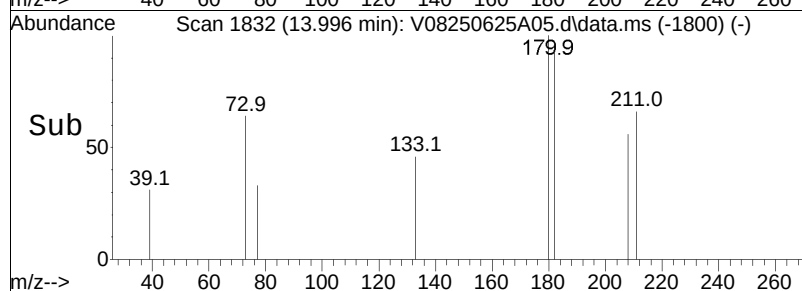
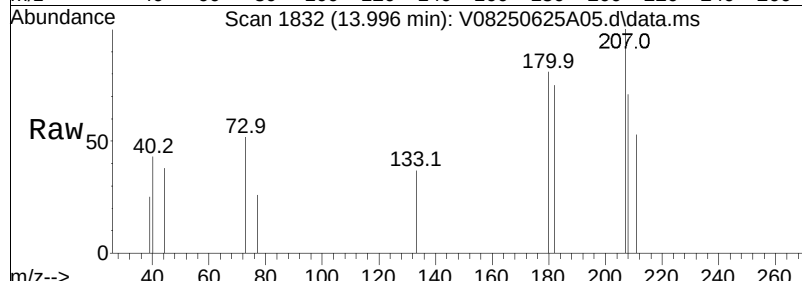
Tgt Ion:	84	Resp:	580
Ion Ratio	Lower	Upper	
84	100		
86	32.8	41.1	85.5#
49	119.0	87.2	181.0





#109
 1,2,4-Trichlorobenzene
 Concen: 0.09 ug/L
 RT: 13.996 min Scan# 1832
 Delta R.T. 0.021 min
 Lab File: V08250625A05.d
 Acq: 25 Jun 2025 8:36 am

Tgt Ion	Ratio	Lower	Upper
180	100		
182	114.9	74.1	111.1#
145	8.3	27.8	41.8#



Manual Integration Report

Data Path	: K:\V0A108\2025\250625A\	QMethod	: V108_250611A_8260.m
Data File	: V08250625A05.d	Operator	: V0A108:PID
Date Inj'd	: 6/25/2025 8:36 am	Instrument	: V0A 108
Sample	: WG2084241-5,31,10,10	Quant Date	: 6/25/2025 9:49 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250625A\
 Data File : V08250625A01.d
 Acq On : 25 Jun 2025 7:06 am
 Operator : VOA108:PID
 Sample : WG2084241-3,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG2084241,ICAL22356 (Sig #1); WG,ICAL22356 (Sig #2)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 25 07:36:21 2025
 Quant Method : K:\VOA108\2025\250625A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.899	96	305323	10.000	ug/L	0.00
59) Chlorobenzene-d5	9.409	117	230501	10.000	ug/L	0.00
79) 1,4-Dichlorobenzene-d4	12.130	152	131049	10.000	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	5.102	113	94584	9.617	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	96.17%		
43) 1,2-Dichloroethane-d4	5.618	65	93400	9.942	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.42%		
60) Toluene-d8	7.575	98	289251	10.268	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	102.68%		
83) 4-Bromofluorobenzene	10.909	95	96824	10.837	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	108.37%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.617	85	58866	7.699	ug/L	99
3) Chloromethane	1.803	50	64717	8.142	ug/L	99
4) Vinyl chloride	1.876	62	89762	9.468	ug/L	96
5) Bromomethane	2.169	94	38165	5.578	ug/L	98
6) Chloroethane	2.282	64	66329	9.708	ug/L	98
7) Trichlorofluoromethane	2.422	101	192920	8.661	ug/L	99
10) 1,1-Dichloroethene	2.894	96	95878	9.309	ug/L	95
11) Carbon disulfide	2.927	76	305567	9.856	ug/L	98
12) Freon-113	2.927	101	100182	9.910	ug/L	95
15) Methylene chloride	3.439	84	71504	8.331	ug/L	97
17) Acetone	3.472	43	14734	9.619	ug/L	97
18) trans-1,2-Dichloroethene	3.585	96	72232	9.380	ug/L	95
19) Methyl acetate	3.585	43	33997	9.142	ug/L	97
20) Methyl tert-butyl ether	3.679	73	168435	9.054	ug/L	97
23) 1,1-Dichloroethane	4.151	63	130241	9.289	ug/L	98
28) cis-1,2-Dichloroethene	4.670	96	82541	9.368	ug/L	99
30) Bromochloromethane	4.856	128	44892	8.815	ug/L	94
31) Cyclohexane	4.862	56	97591	8.541	ug/L	91
32) Chloroform	4.929	83	139934	8.906	ug/L	96
34) Carbon tetrachloride	5.062	117	118627	9.274	ug/L	96
37) 1,1,1-Trichloroethane	5.122	97	127913	9.785	ug/L	98
39) 2-Butanone	5.208	43	19079	8.326	ug/L	99
41) Benzene	5.488	78	276817	8.915	ug/L	99
44) 1,2-Dichloroethane	5.687	62	91320	9.491	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250625A\
 Data File : V08250625A01.d
 Acq On : 25 Jun 2025 7:06 am
 Operator : VOA108:PID
 Sample : WG2084241-3,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG2084241,ICAL22356 (Sig #1); WG,ICAL22356 (Sig #2)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 25 07:36:21 2025
 Quant Method : K:\VOA108\2025\250625A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
47)	Methyl cyclohexane	6.070	83	95708	8.227	ug/L	96
48)	Trichloroethene	6.077	95	80212	9.376	ug/L	98
51)	1,2-Dichloropropane	6.610	63	66699	9.036	ug/L	97
54)	Bromodichloromethane	6.686	83	105752	9.614	ug/L	99
58)	cis-1,3-Dichloropropene	7.370	75	109980	9.932	ug/L	99
61)	Toluene	7.630	92	174201	9.906	ug/L	100
62)	4-Methyl-2-pentanone	8.054	58	12379	8.589	ug/L	97
63)	Tetrachloroethene	8.082	166	80756	9.763	ug/L	98
65)	trans-1,3-Dichloropropene	8.109	75	93559	10.704	ug/L	93
68)	1,1,2-Trichloroethane	8.294	83	47439	9.587	ug/L	98
69)	Chlorodibromomethane	8.506	129	84592	10.344	ug/L	99
71)	1,2-Dibromoethane	8.780	107	57794	10.742	ug/L	98
72)	2-Hexanone	9.067	43	26264	8.689	ug/L	96
73)	Chlorobenzene	9.430	112	215435	9.802	ug/L	98
74)	Ethylbenzene	9.464	91	343415	9.741	ug/L	97
76)	p/m Xylene	9.648	106	286106	18.509	ug/L	96
77)	o Xylene	10.196	106	277122	18.195	ug/L	96
78)	Styrene	10.264	104	443432	16.327	ug/L	99
80)	Bromoform	10.292	173	49393	9.909	ug/L	99
82)	Isopropylbenzene	10.586	105	358698	10.354	ug/L	98
87)	1,1,2,2-Tetrachloroethane	11.155	83	68688	10.479	ug/L	99
100)	1,3-Dichlorobenzene	12.047	146	201635	10.425	ug/L	99
101)	1,4-Dichlorobenzene	12.143	146	200520	10.180	ug/L	99
104)	1,2-Dichlorobenzene	12.569	146	188636	10.617	ug/L	98
106)	1,2-Dibromo-3-chloropr...	13.351	155	11651	11.203	ug/L	97
109)	1,2,4-Trichlorobenzene	13.982	180	120247	10.311	ug/L	99
111)	1,2,3-Trichlorobenzene	14.435	180	106156	10.142	ug/L	99

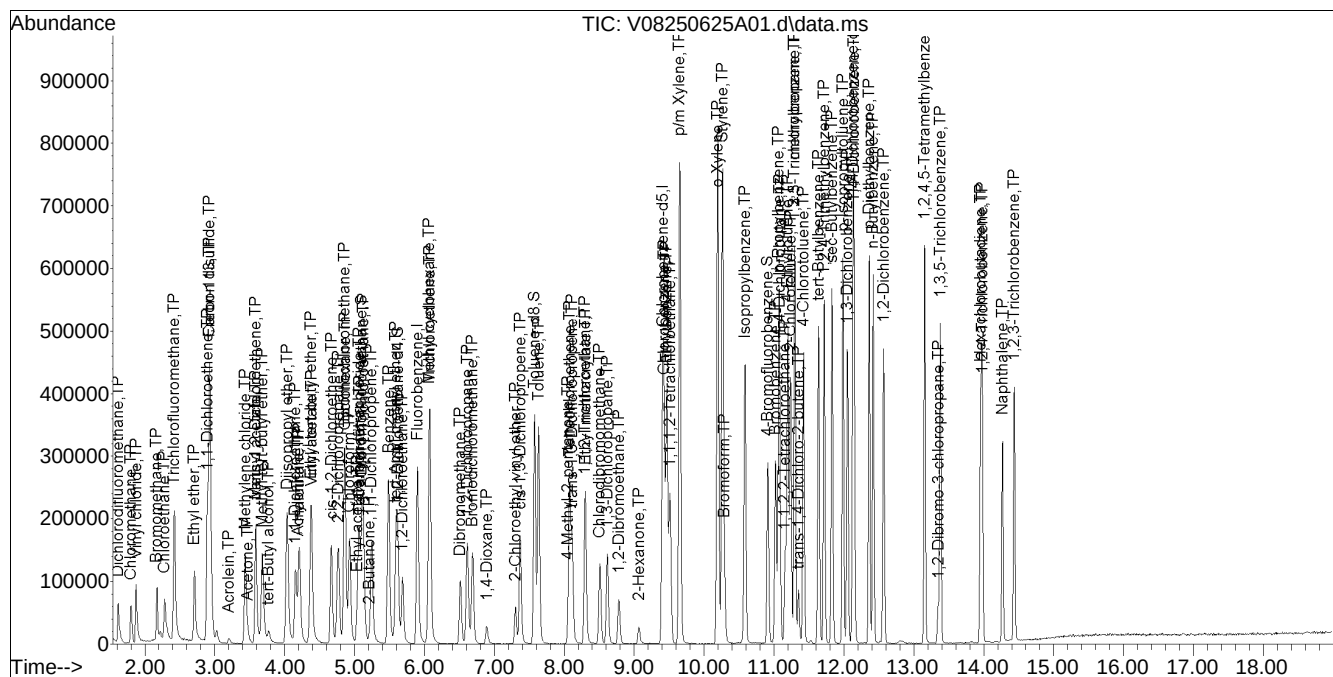
(#) = qualifier out of range (m) = manual integration (+) = signals summed

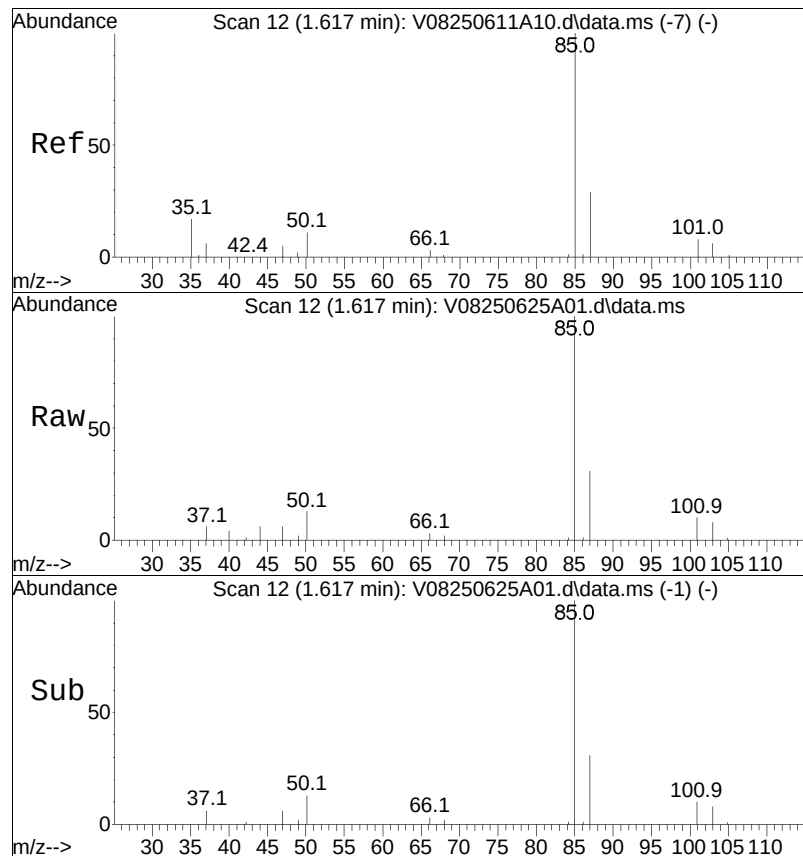
Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250625A\
 Data File : V08250625A01.d
 Acq On : 25 Jun 2025 7:06 am
 Operator : VOA108:PID
 Sample : WG2084241-3,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG2084241,ICAL22356 (Sig #1); WG,ICAL22356 (Sig #2)
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 25 07:36:21 2025
 Quant Method : K:\VOA108\2025\250625A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

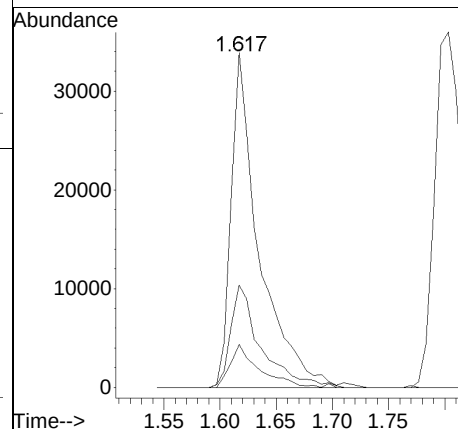
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

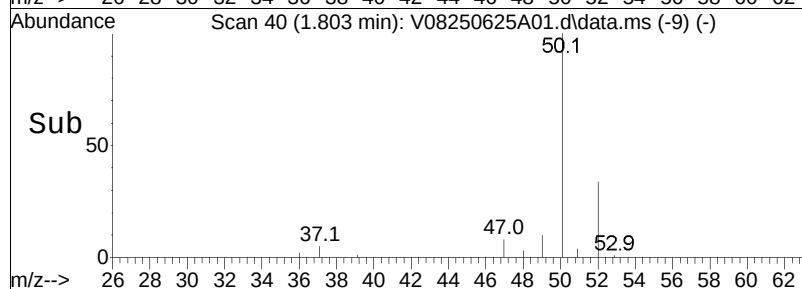
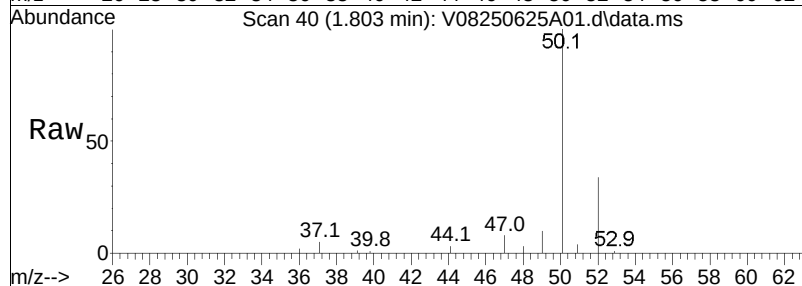
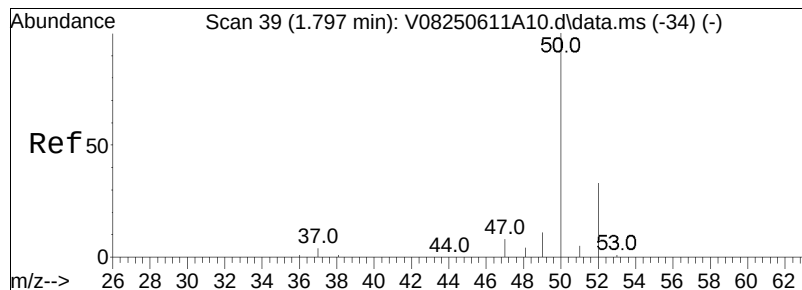




#2
 Dichlorodifluoromethane
 Concen: 7.70 ug/L
 RT: 1.617 min Scan# 12
 Delta R.T. -0.000 min
 Lab File: V08250625A01.d
 Acq: 25 Jun 2025 7:06 am

Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.8	20.8	43.2
50	13.2	8.4	17.4





#3

Chloromethane

Concen: 8.14 ug/L

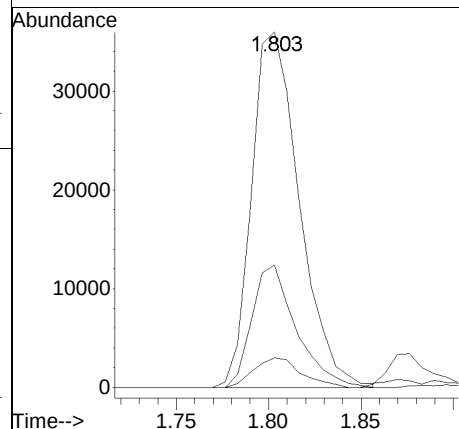
RT: 1.803 min Scan# 40

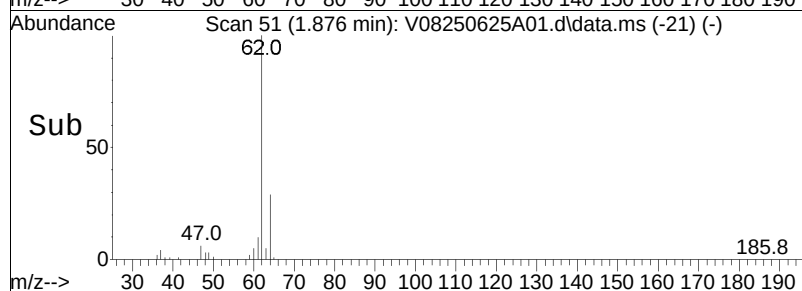
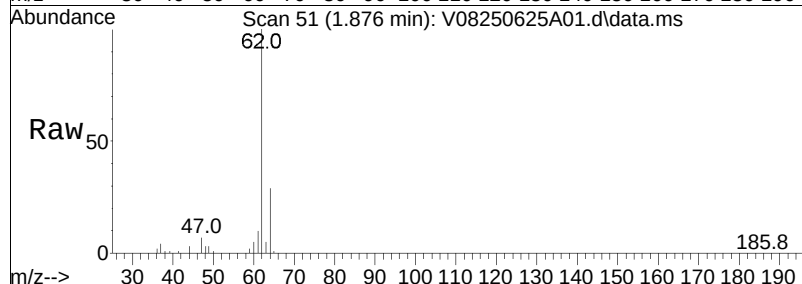
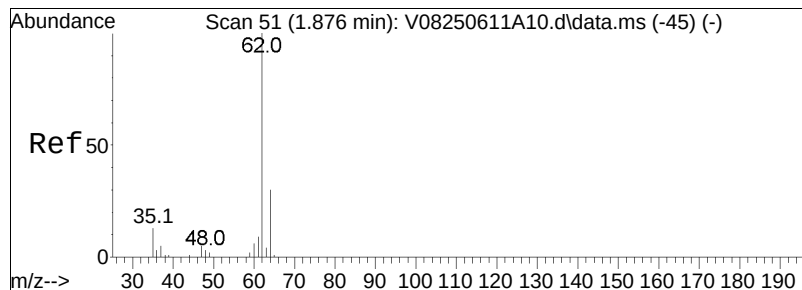
Delta R.T. 0.006 min

Lab File: V08250625A01.d

Acq: 25 Jun 2025 7:06 am

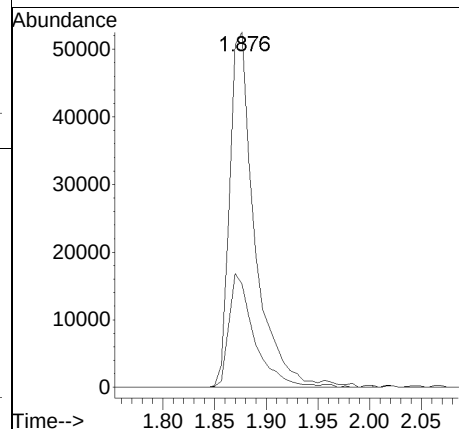
Tgt	Ion: 50	Resp:	64717
Ion	Ratio	Lower	Upper
50	100		
52	31.9	12.4	52.4
47	8.3	0.0	28.0

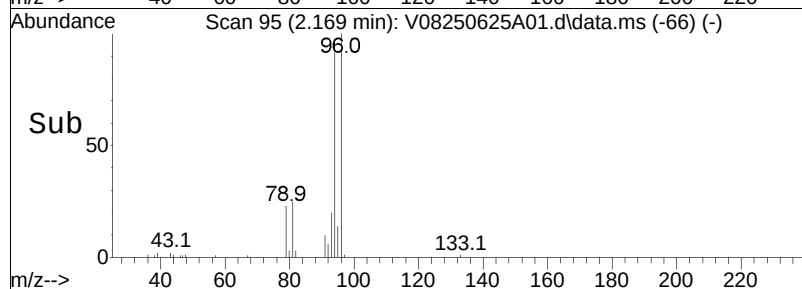
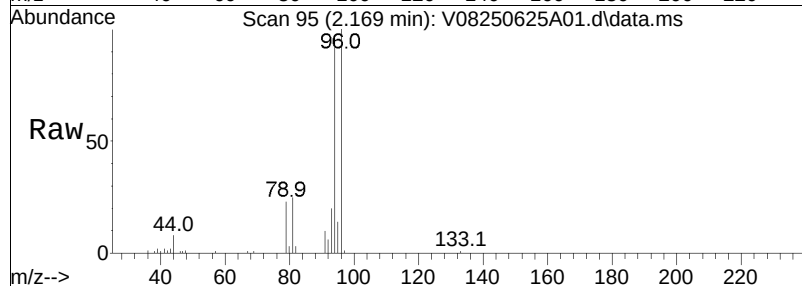
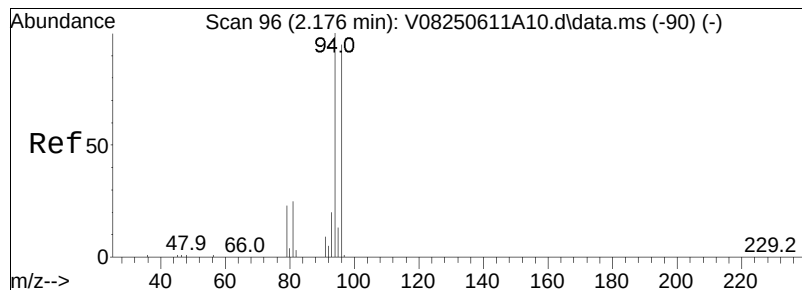




#4
 Vinyl chloride
 Concen: 9.47 ug/L
 RT: 1.876 min Scan# 51
 Delta R.T. 0.000 min
 Lab File: V08250625A01.d
 Acq: 25 Jun 2025 7:06 am

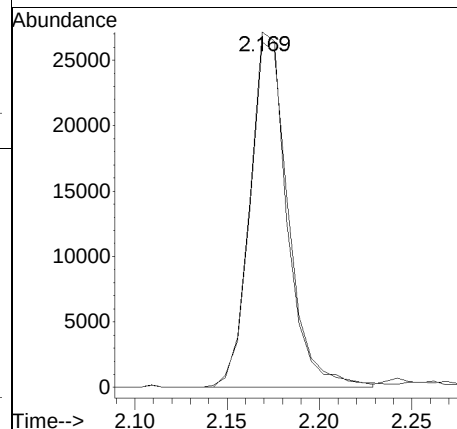
Tgt Ion	Ratio	Lower	Upper
62	100		
64	32.6	10.5	50.5

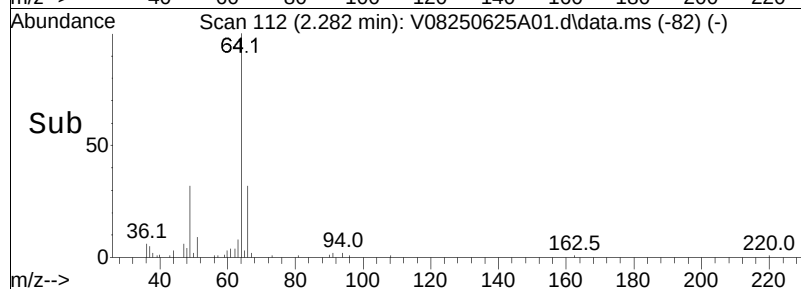
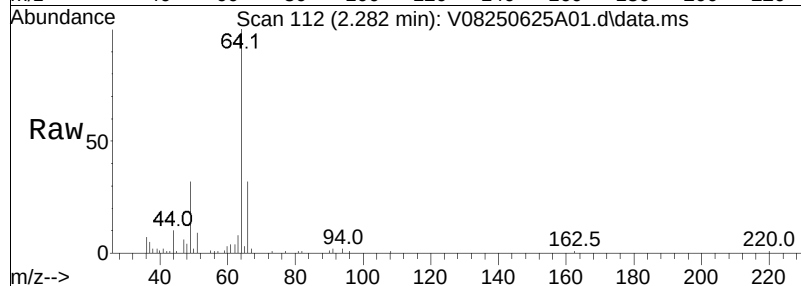
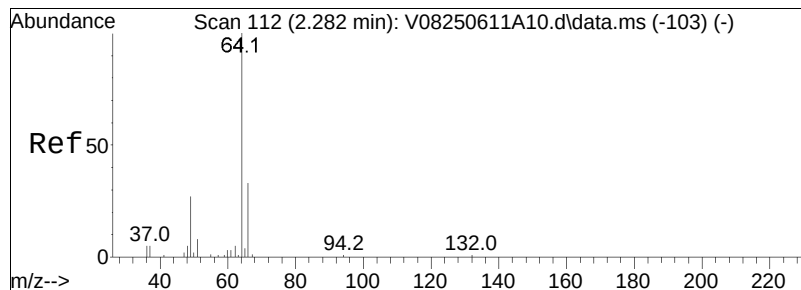




#5
 Bromomethane
 Concen: 5.58 ug/L
 RT: 2.169 min Scan# 95
 Delta R.T. -0.007 min
 Lab File: V08250625A01.d
 Acq: 25 Jun 2025 7:06 am

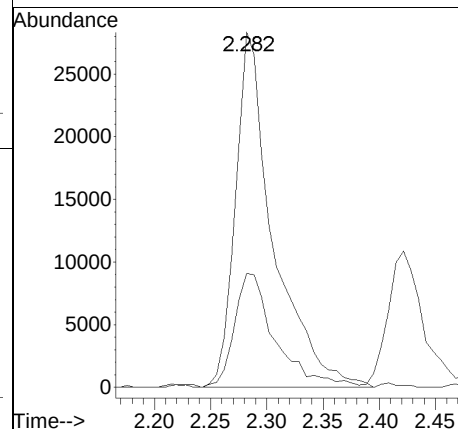
Tgt Ion	Ratio	Lower	Upper
94	100		
96	100.1	77.7	117.7

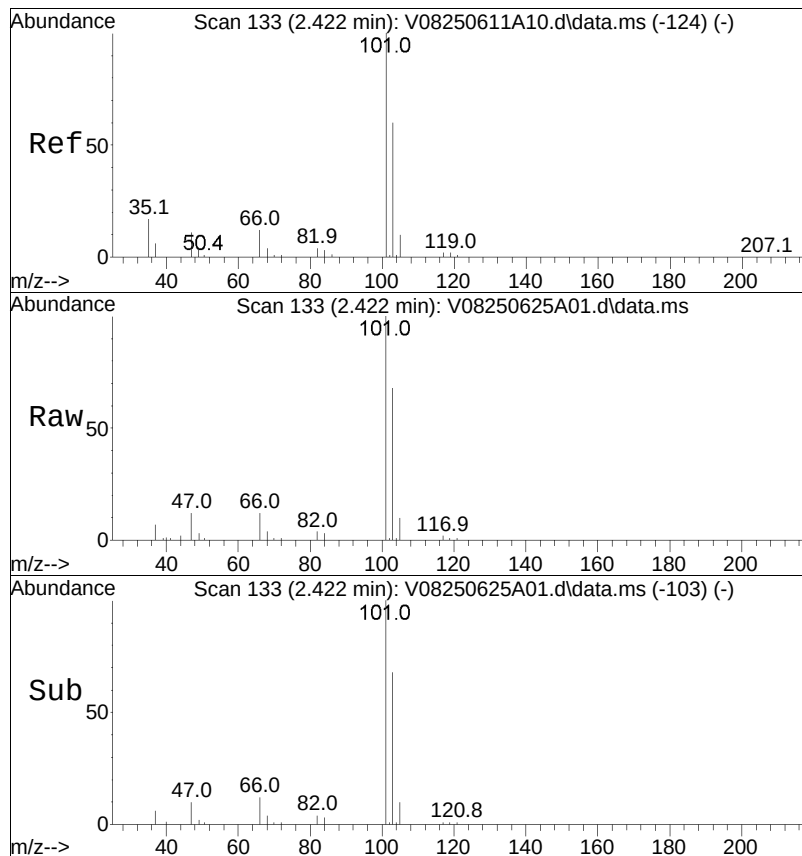




#6
 Chloroethane
 Concen: 9.71 ug/L
 RT: 2.282 min Scan# 112
 Delta R.T. -0.000 min
 Lab File: V08250625A01.d
 Acq: 25 Jun 2025 7:06 am

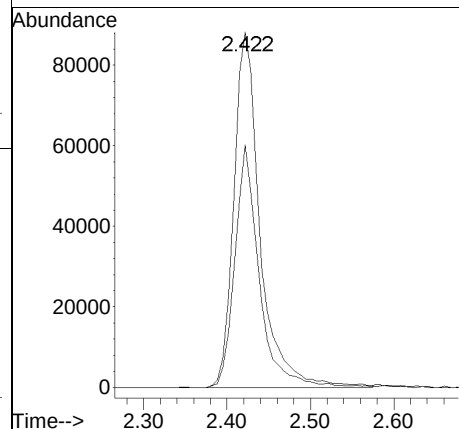
Tgt Ion: 64 Resp: 66329
 Ion Ratio Lower Upper
 64 100
 66 34.8 13.7 53.7

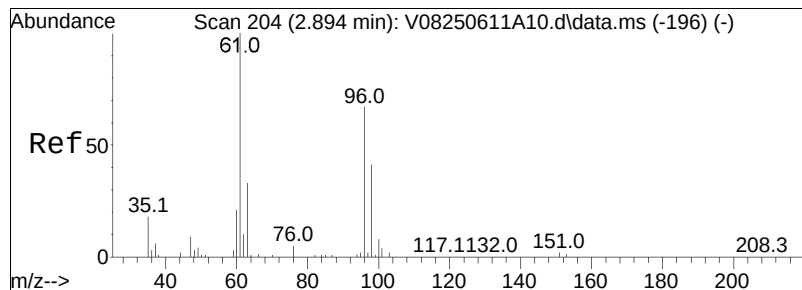




#7
 Trichlorofluoromethane
 Concen: 8.66 ug/L
 RT: 2.422 min Scan# 133
 Delta R.T. -0.000 min
 Lab File: V08250625A01.d
 Acq: 25 Jun 2025 7:06 am

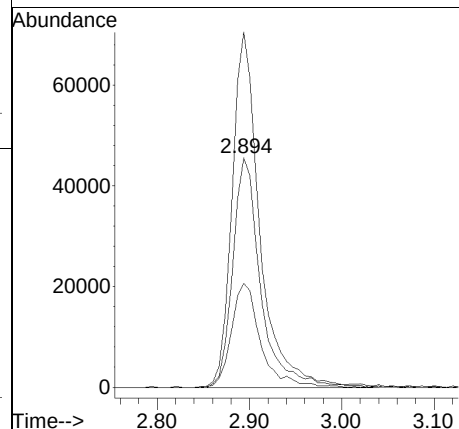
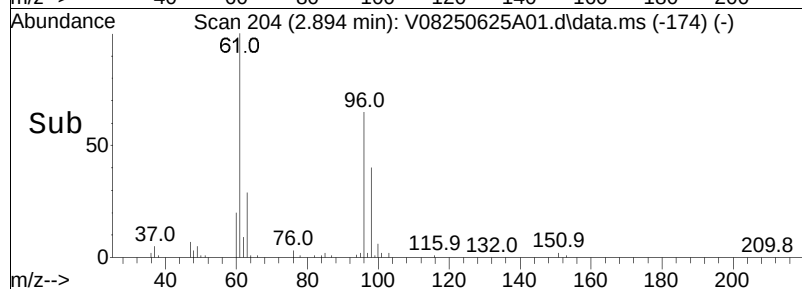
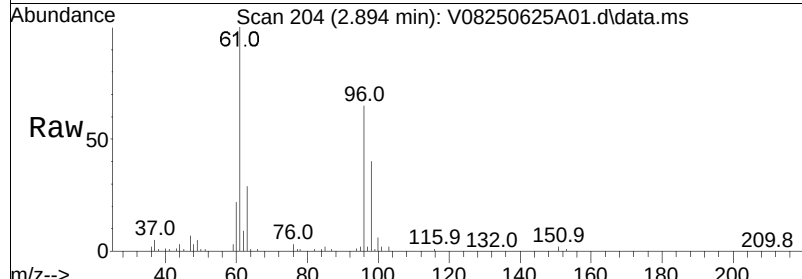
Tgt	Ion	Ratio	Resp	Lower	Upper
101	101	100	192920		
103	103	63.1		49.8	74.6

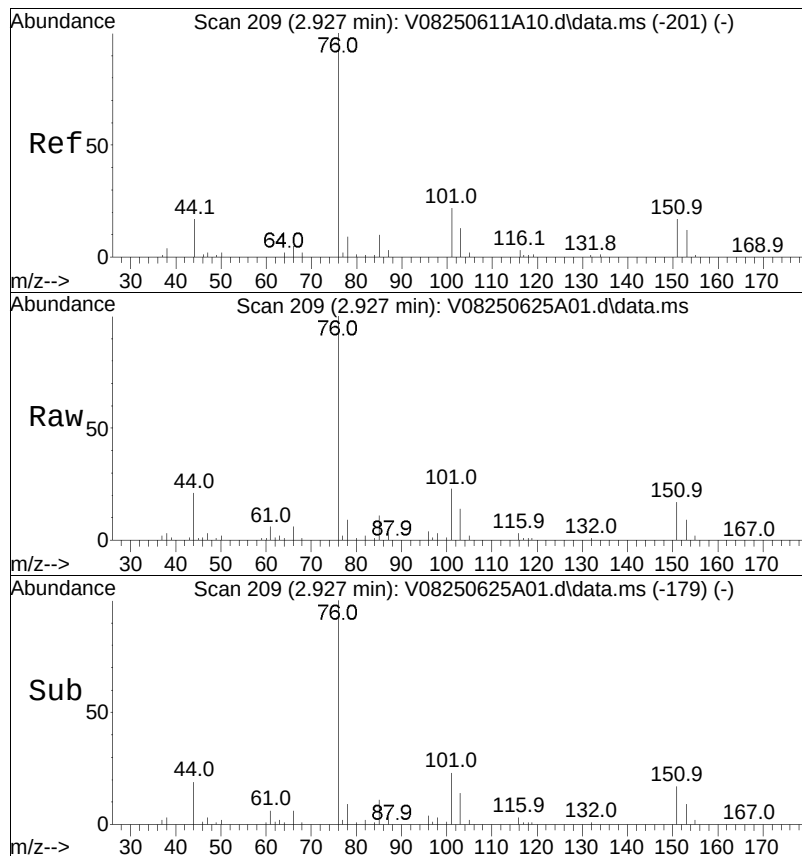




#10
 1,1-Dichloroethene
 Concen: 9.31 ug/L
 RT: 2.894 min Scan# 204
 Delta R.T. -0.000 min
 Lab File: V08250625A01.d
 Acq: 25 Jun 2025 7:06 am

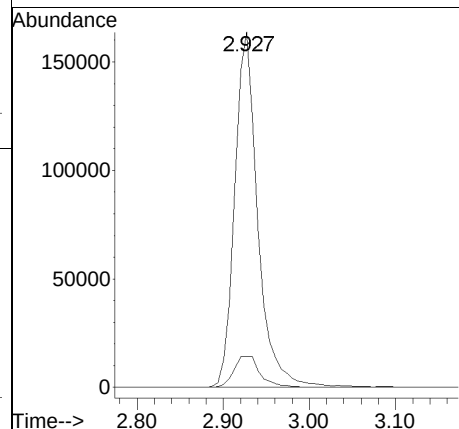
Tgt	Ion: 96	Resp:	95878
Ion	Ratio	Lower	Upper
96	100		
61	153.1	129.4	194.2
63	47.5	39.0	58.6

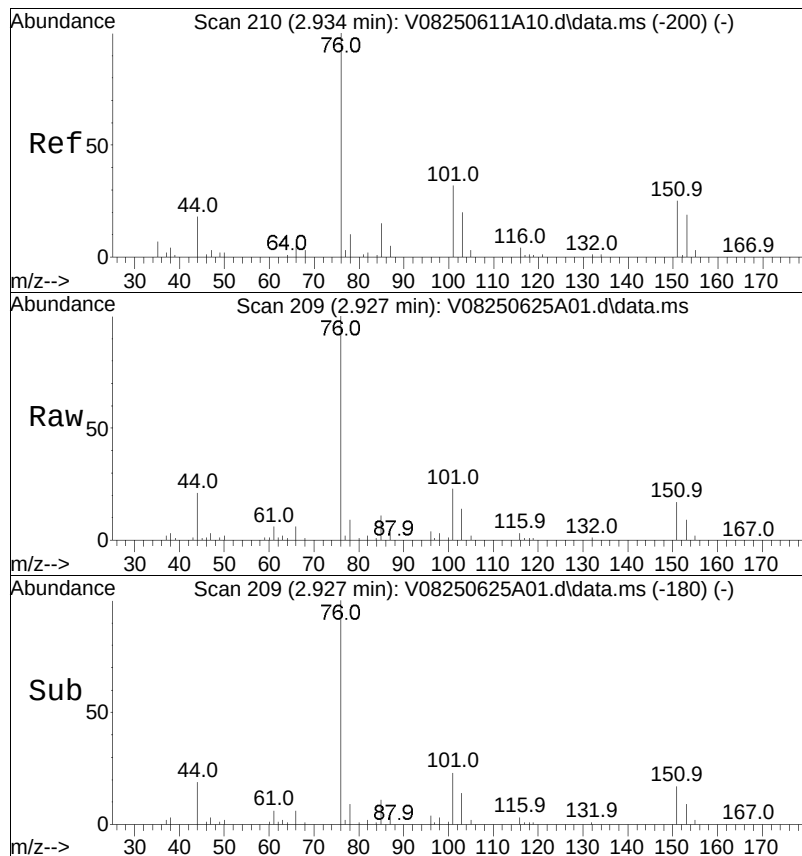




#11
Carbon disulfide
Concen: 9.86 ug/L
RT: 2.927 min Scan# 209
Delta R.T. 0.000 min
Lab File: V08250625A01.d
Acq: 25 Jun 2025 7:06 am

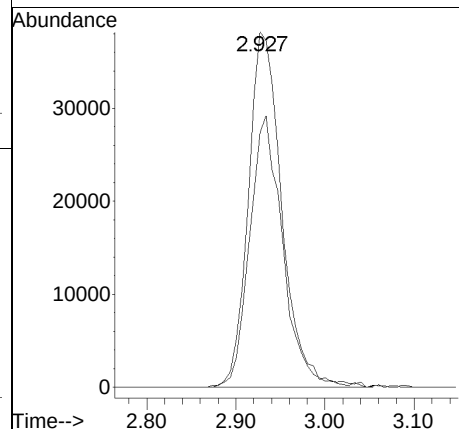
Tgt Ion	Ratio	Lower	Upper
76	100		
78	10.0	6.0	12.6

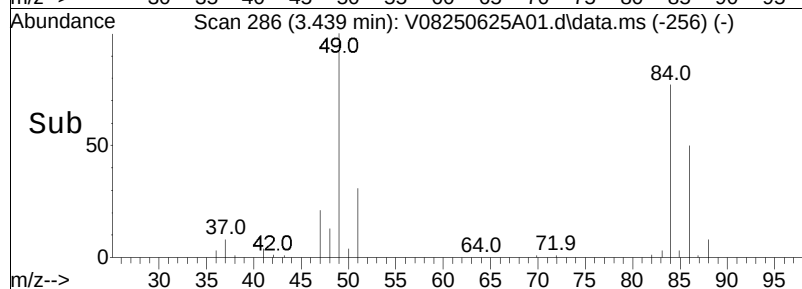
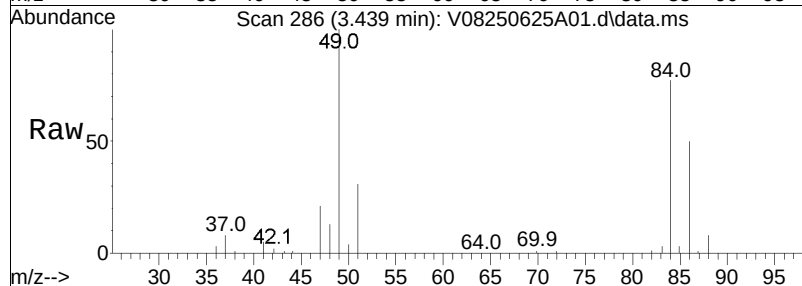
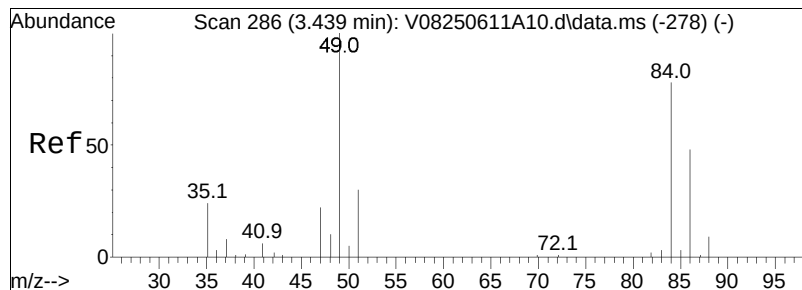




#12
 Freon-113
 Concen: 9.91 ug/L
 RT: 2.927 min Scan# 209
 Delta R.T. -0.007 min
 Lab File: V08250625A01.d
 Acq: 25 Jun 2025 7:06 am

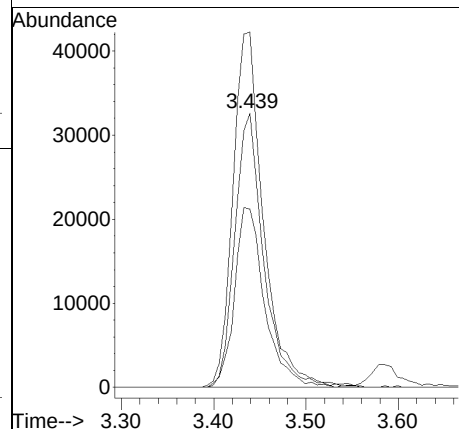
Tgt Ion	101	151	Ratio	Lower	Upper
101	100				
151	75.2		63.5		95.3

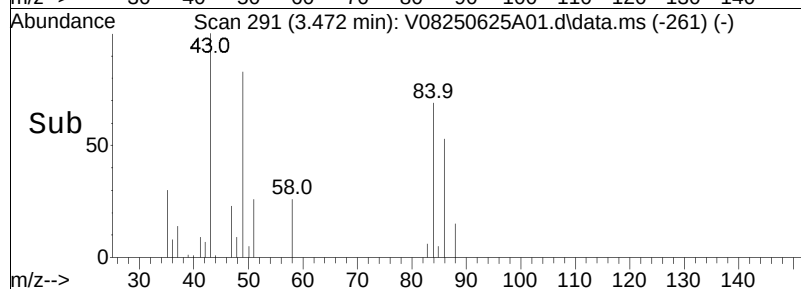
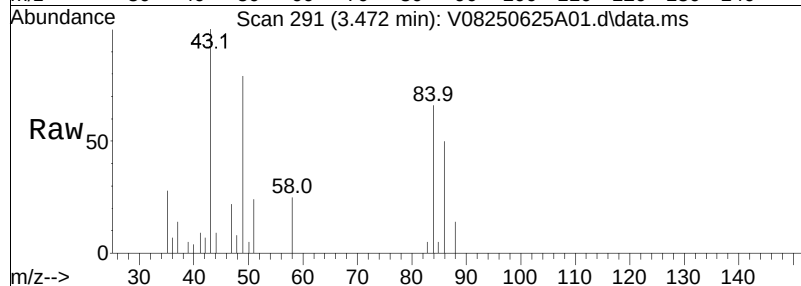
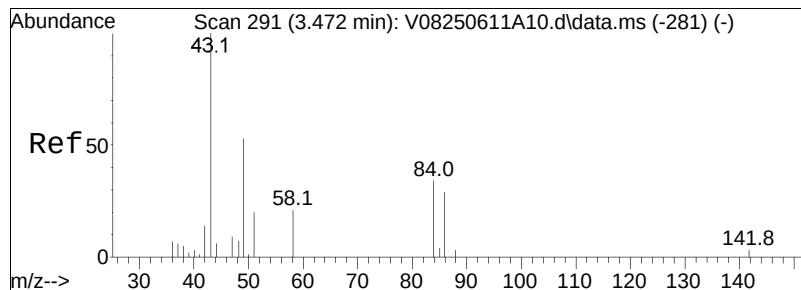




#15
Methylene chloride
Concen: 8.33 ug/L
RT: 3.439 min Scan# 286
Delta R.T. 0.000 min
Lab File: V08250625A01.d
Acq: 25 Jun 2025 7:06 am

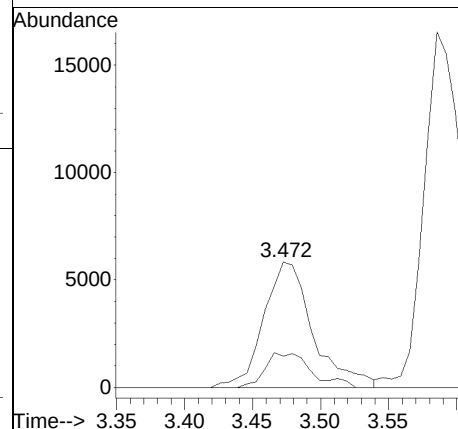
Tgt Ion:	84	Resp:	71504
Ion Ratio	Lower	Upper	
84	100		
86	68.1	41.1	85.5
49	136.1	87.2	181.0

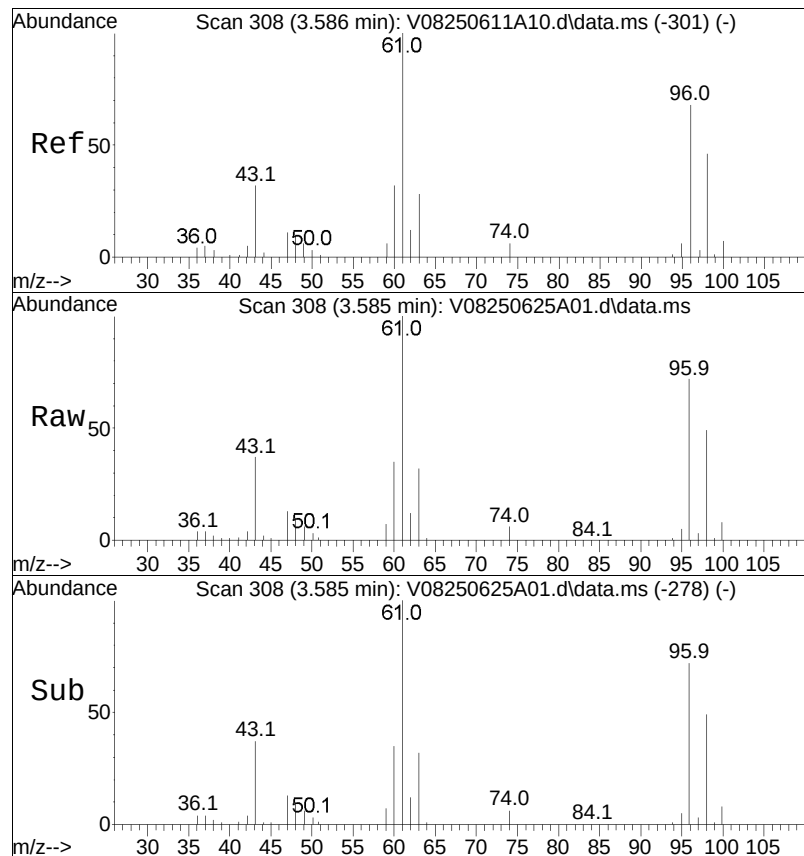




#17
Acetone
Concen: 9.62 ug/L
RT: 3.472 min Scan# 291
Delta R.T. 0.000 min
Lab File: V08250625A01.d
Acq: 25 Jun 2025 7:06 am

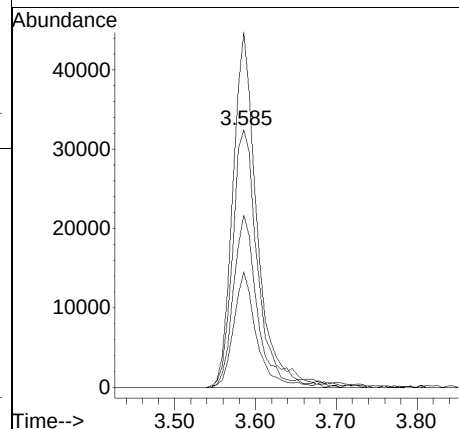
Tgt	Ion	Resp	Lower	Upper
43	100			
58	25.7	21.6	32.4	

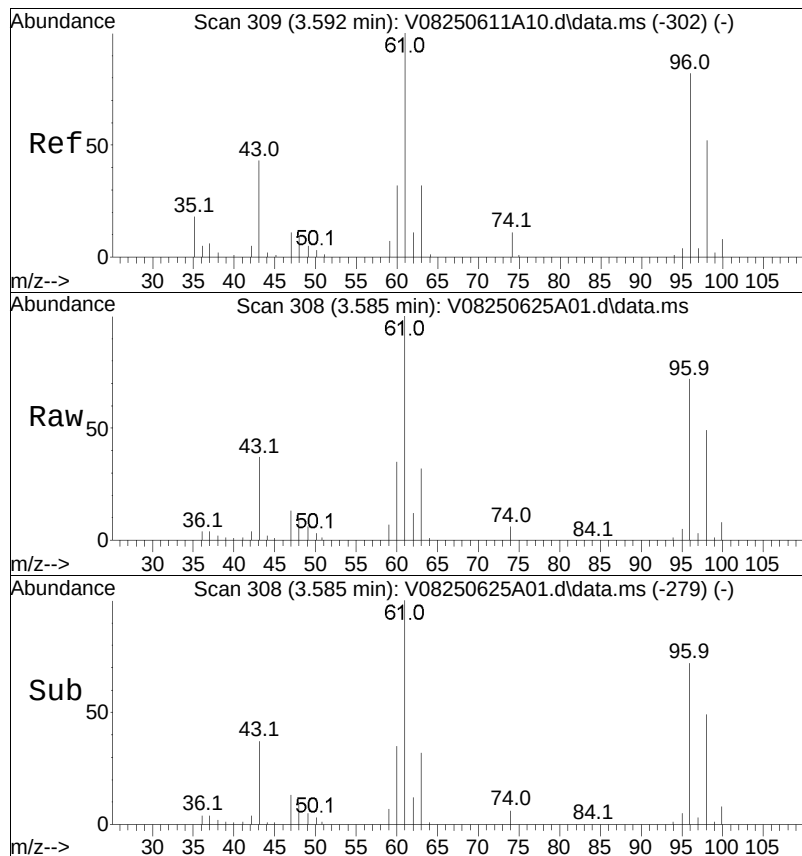




#18
 trans-1,2-Dichloroethene
 Concen: 9.38 ug/L
 RT: 3.585 min Scan# 308
 Delta R.T. -0.001 min
 Lab File: V08250625A01.d
 Acq: 25 Jun 2025 7:06 am

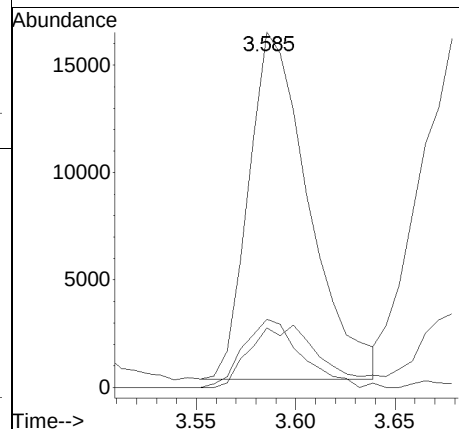
Tgt Ion:	96	Resp:	72232
Ion Ratio	Lower	Upper	
96	100		
61	129.9	90.2	187.4
98	63.0	42.2	87.6
63	40.2	27.6	57.4

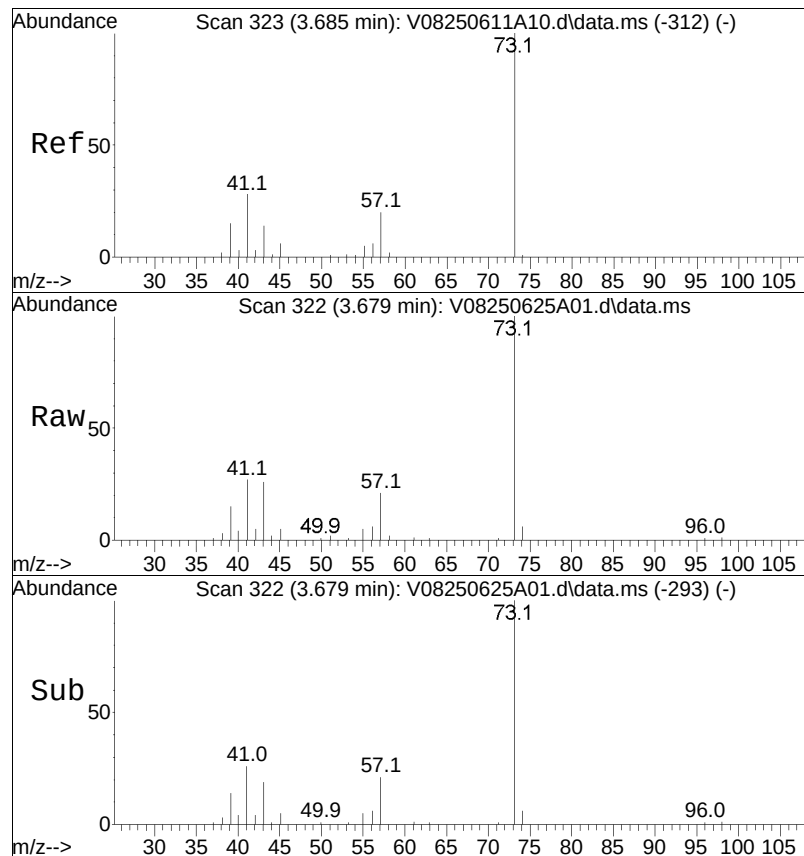




#19
Methyl acetate
Concen: 9.14 ug/L
RT: 3.585 min Scan# 308
Delta R.T. -0.007 min
Lab File: V08250625A01.d
Acq: 25 Jun 2025 7:06 am

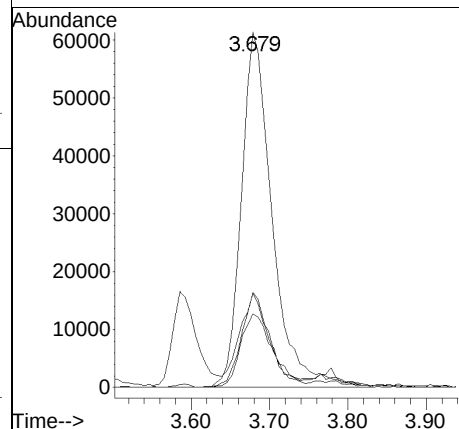
Tgt Ion:	43	Resp:	33997
Ion Ratio	Lower	Upper	
43	100		
74	20.3	17.8	26.8
59	19.0	14.7	22.1

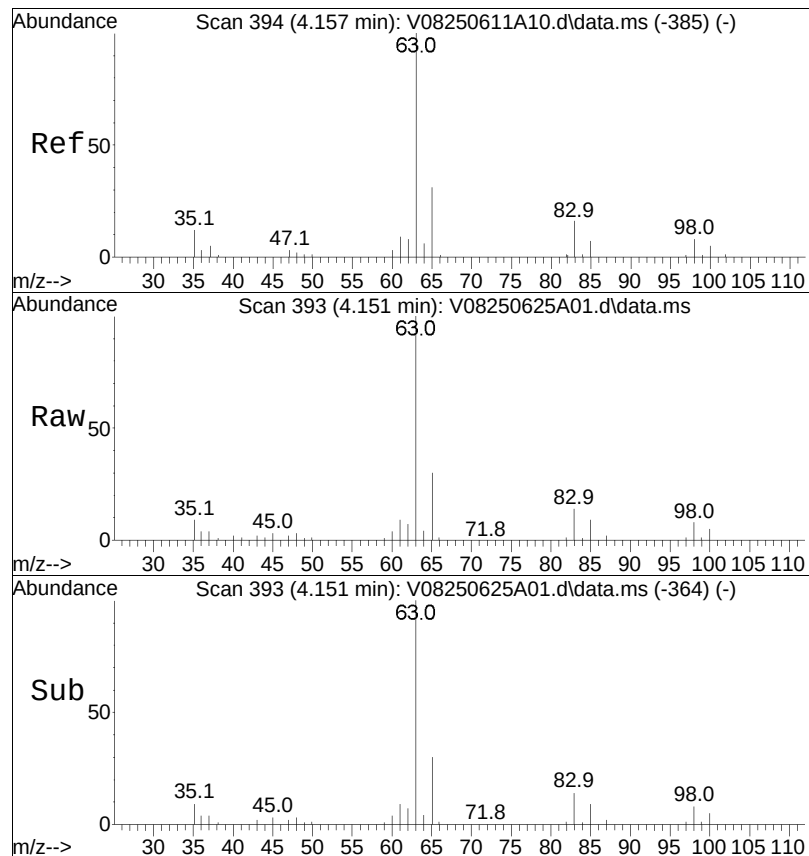




#20
Methyl tert-butyl ether
Concen: 9.05 ug/L
RT: 3.679 min Scan# 322
Delta R.T. -0.006 min
Lab File: V08250625A01.d
Acq: 25 Jun 2025 7:06 am

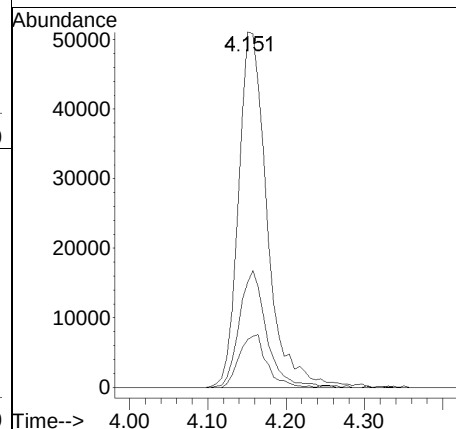
Tgt Ion: 73	Resp: 168435
Ion Ratio	Lower Upper
73 100	
57 21.1	13.6 28.2
43 25.2	15.7 32.5
41 24.6	18.0 37.4

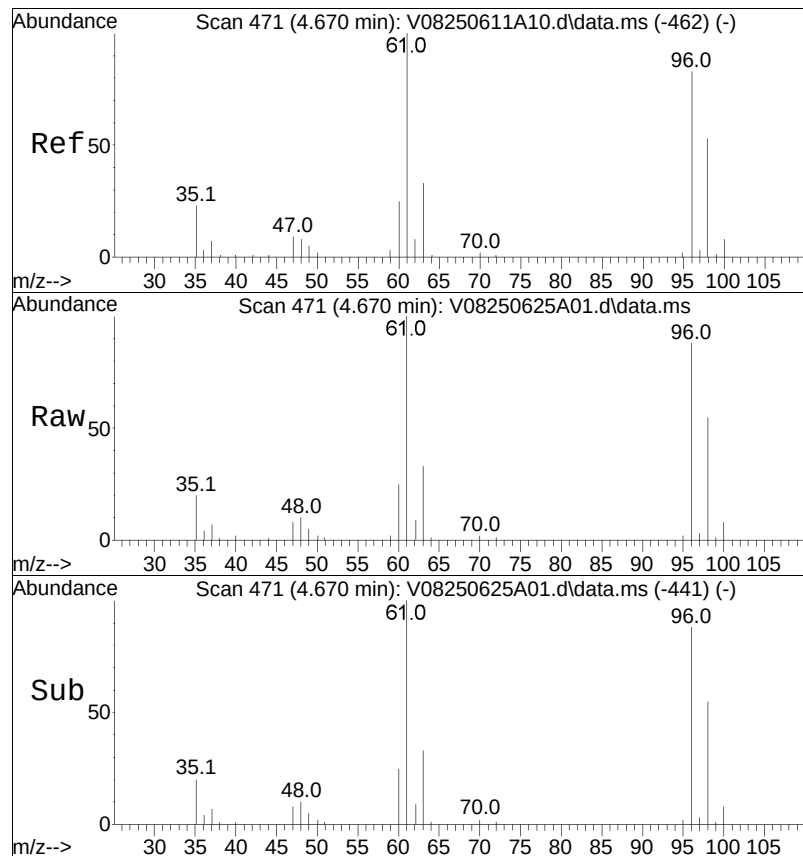




#23
 1,1-Dichloroethane
 Concen: 9.29 ug/L
 RT: 4.151 min Scan# 393
 Delta R.T. -0.006 min
 Lab File: V08250625A01.d
 Acq: 25 Jun 2025 7:06 am

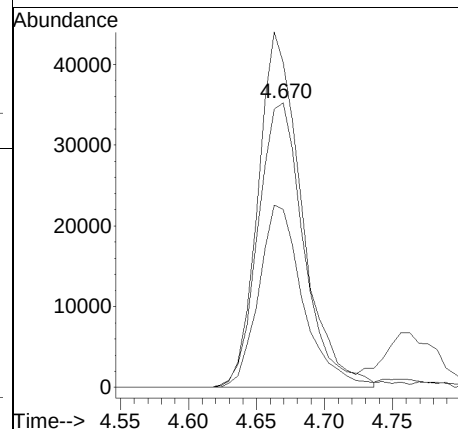
Tgt Ion	Ratio	Lower	Upper
63	100		
65	31.4	12.4	52.4
83	14.2	0.0	33.8

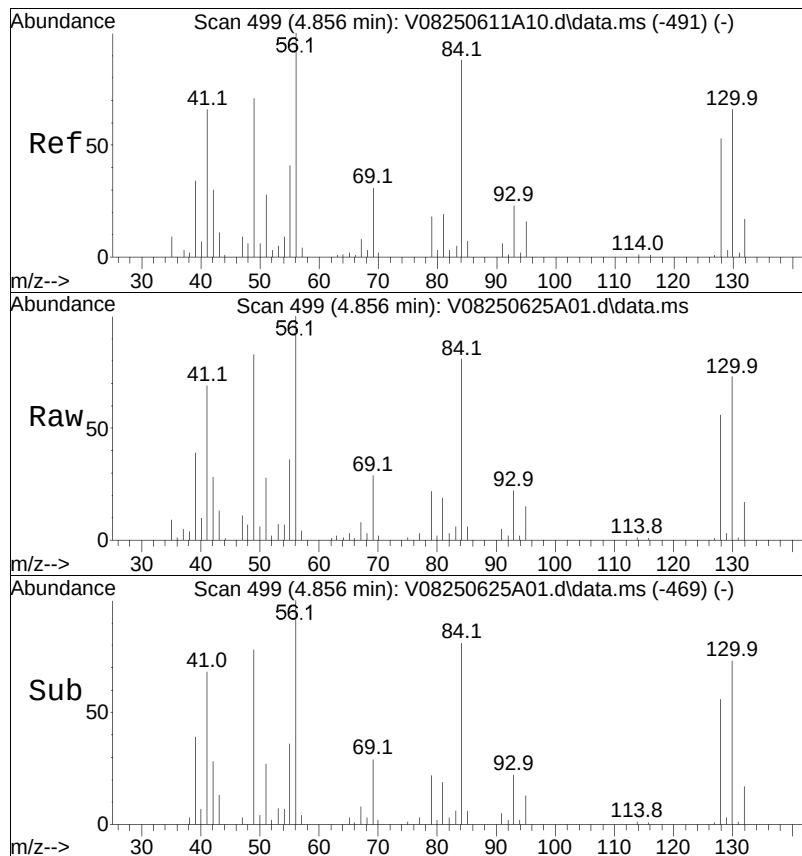




#28
 cis-1,2-Dichloroethene
 Concen: 9.37 ug/L
 RT: 4.670 min Scan# 471
 Delta R.T. -0.000 min
 Lab File: V08250625A01.d
 Acq: 25 Jun 2025 7:06 am

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	82541		
61	117.8		93.7	140.5
98	63.3		50.3	75.5





#30

Bromochloromethane

Concen: 8.82 ug/L

RT: 4.856 min Scan# 499

Delta R.T. -0.000 min

Lab File: V08250625A01.d

Acq: 25 Jun 2025 7:06 am

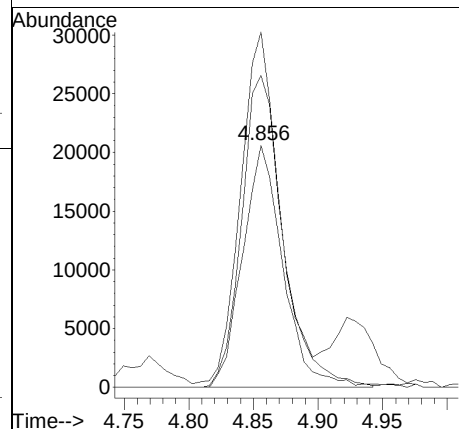
Tgt Ion:128 Resp: 44892

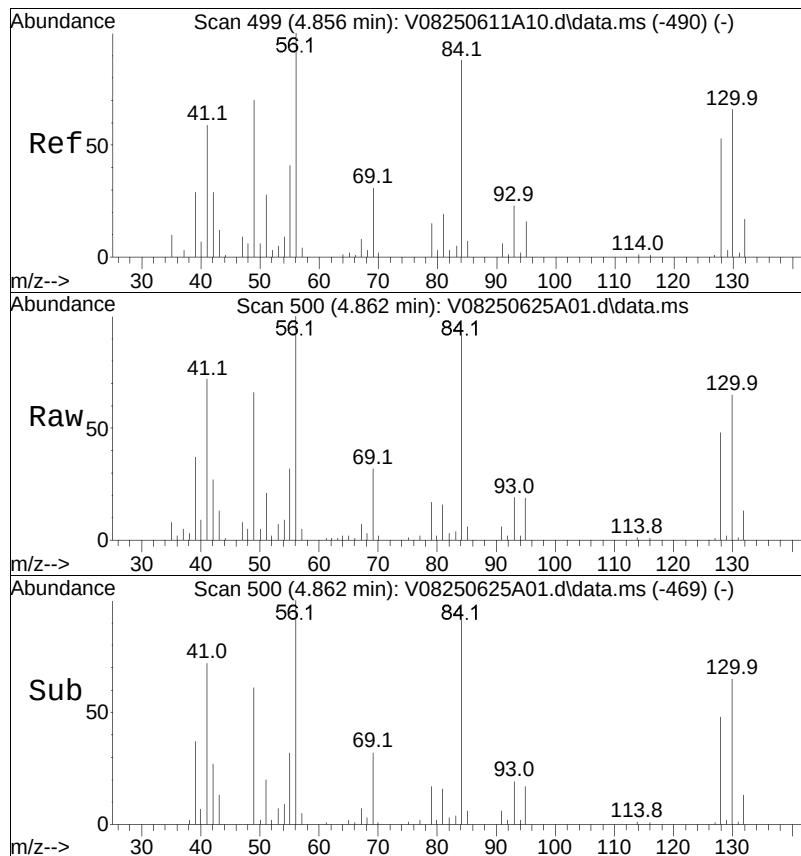
Ion Ratio Lower Upper

128 100

49 142.7 119.6 179.4

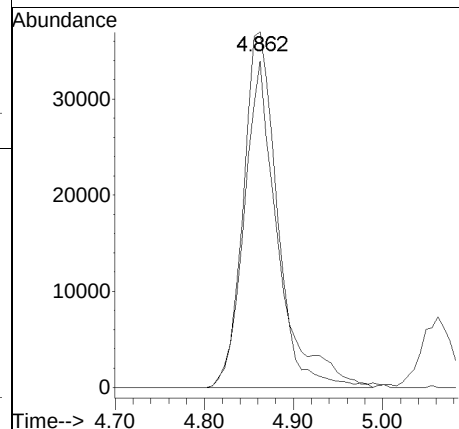
130 133.4 100.7 151.1

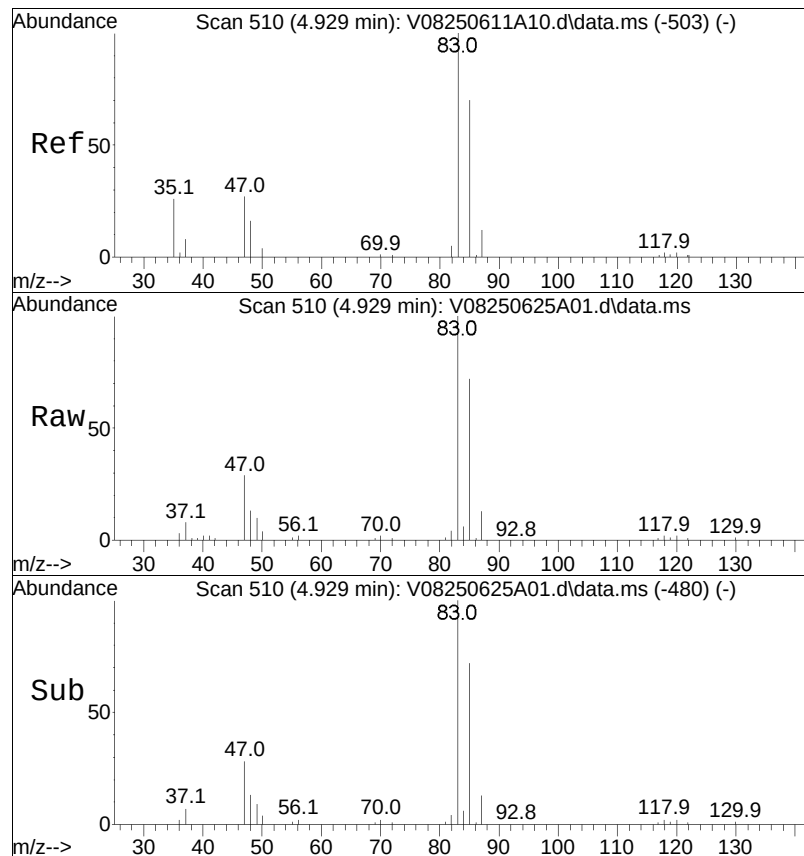




#31
 Cyclohexane
 Concen: 8.54 ug/L
 RT: 4.862 min Scan# 500
 Delta R.T. 0.006 min
 Lab File: V08250625A01.d
 Acq: 25 Jun 2025 7:06 am

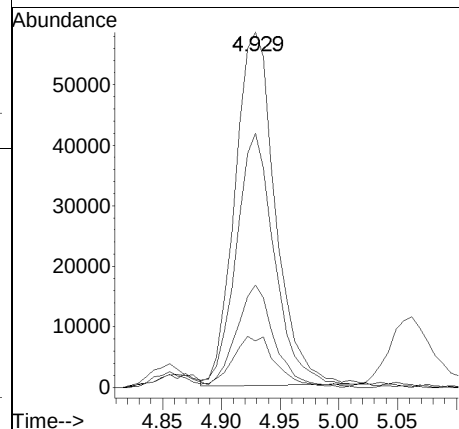
Tgt	Ion	Ratio	Lower	Upper
56	100			
84	93.0	55.3	114.8	

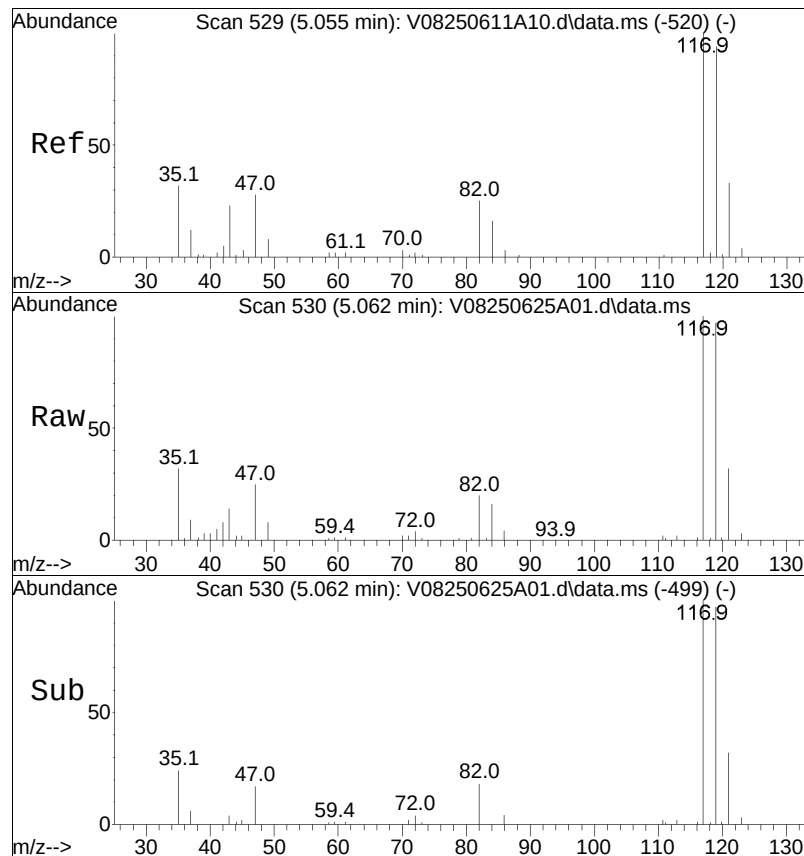




#32
 Chloroform
 Concen: 8.91 ug/L
 RT: 4.929 min Scan# 510
 Delta R.T. -0.000 min
 Lab File: V08250625A01.d
 Acq: 25 Jun 2025 7:06 am

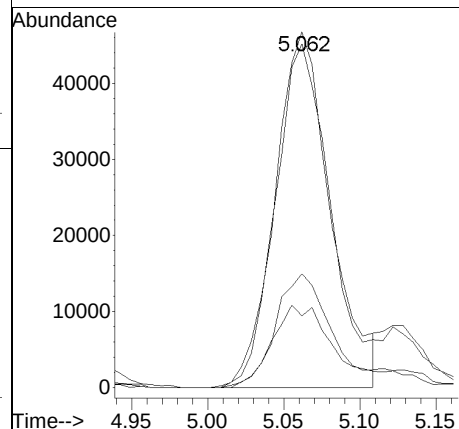
Tgt	Ion: 83	Resp:	139934
Ion	Ratio	Lower	Upper
83	100		
85	68.5	42.1	87.3
47	25.9	17.7	36.7
48	15.6	9.1	18.9

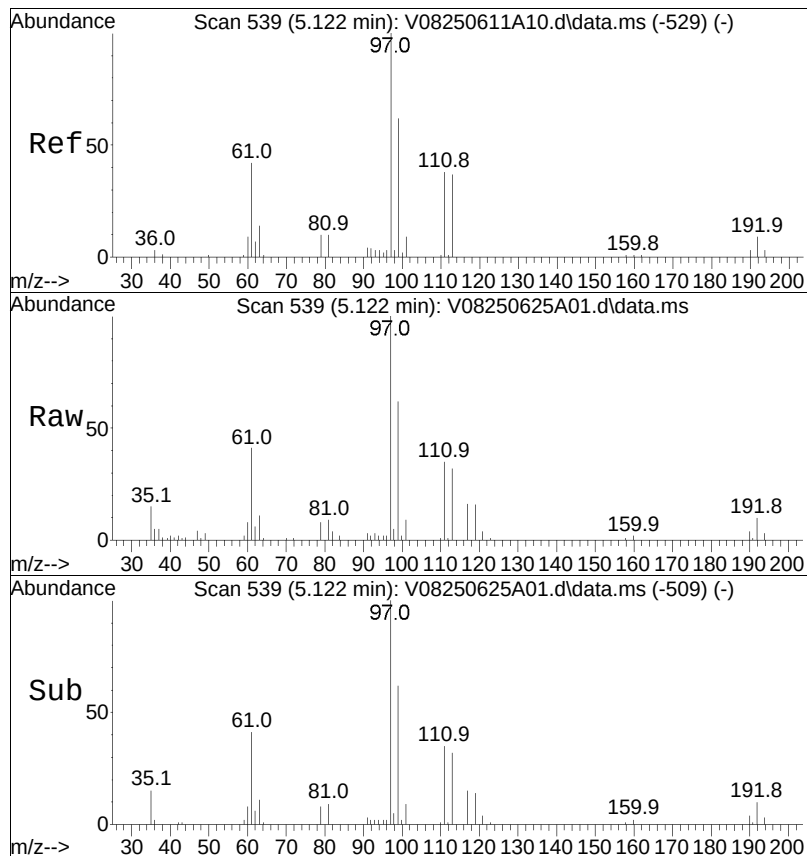




#34
 Carbon tetrachloride
 Concen: 9.27 ug/L
 RT: 5.062 min Scan# 530
 Delta R.T. 0.007 min
 Lab File: V08250625A01.d
 Acq: 25 Jun 2025 7:06 am

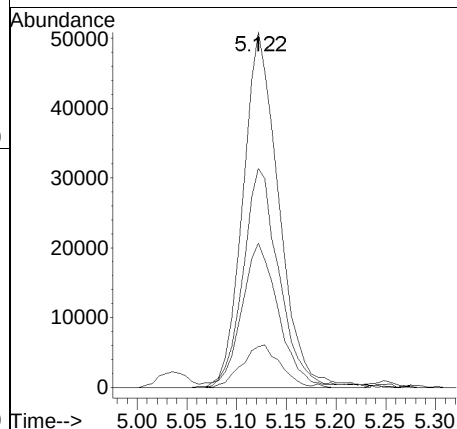
Tgt Ion:	117	Resp:	118627
Ion Ratio	Lower	Upper	
117	100		
119	98.1	61.4	127.6
121	31.7	20.5	42.7
82	28.6	16.3	33.8

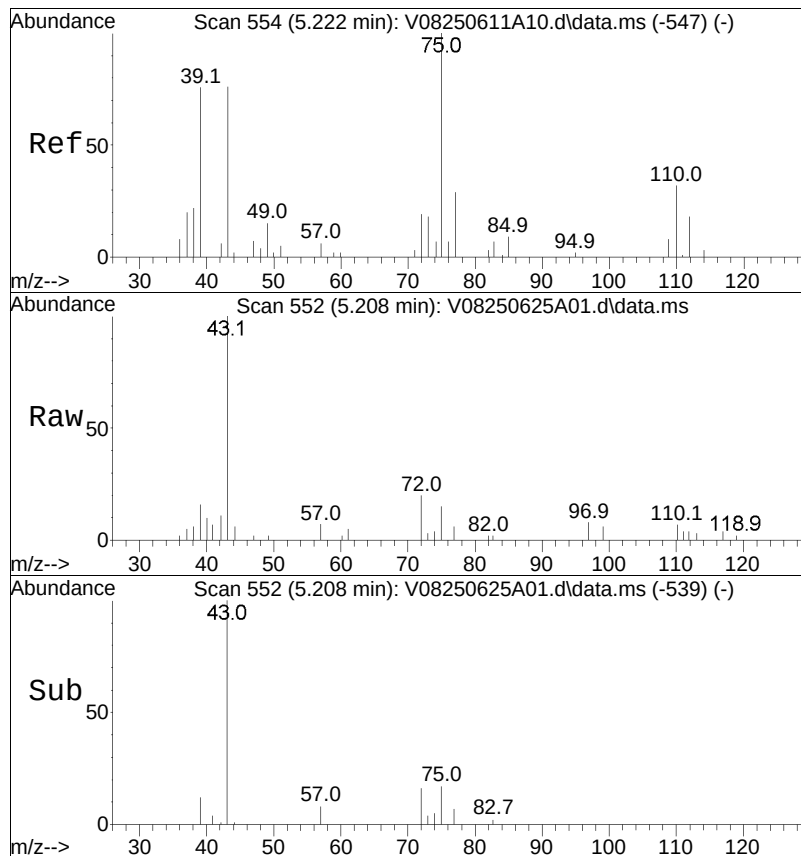




#37
 1,1,1-Trichloroethane
 Concen: 9.78 ug/L
 RT: 5.122 min Scan# 539
 Delta R.T. -0.000 min
 Lab File: V08250625A01.d
 Acq: 25 Jun 2025 7:06 am

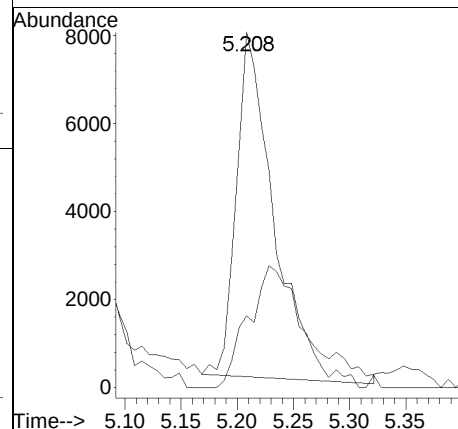
Tgt Ion:	97	Resp:	127913
Ion Ratio	Lower	Upper	
97	100		
99	62.0	40.2	83.4
61	41.7	28.6	59.4
63	13.0	9.2	19.2

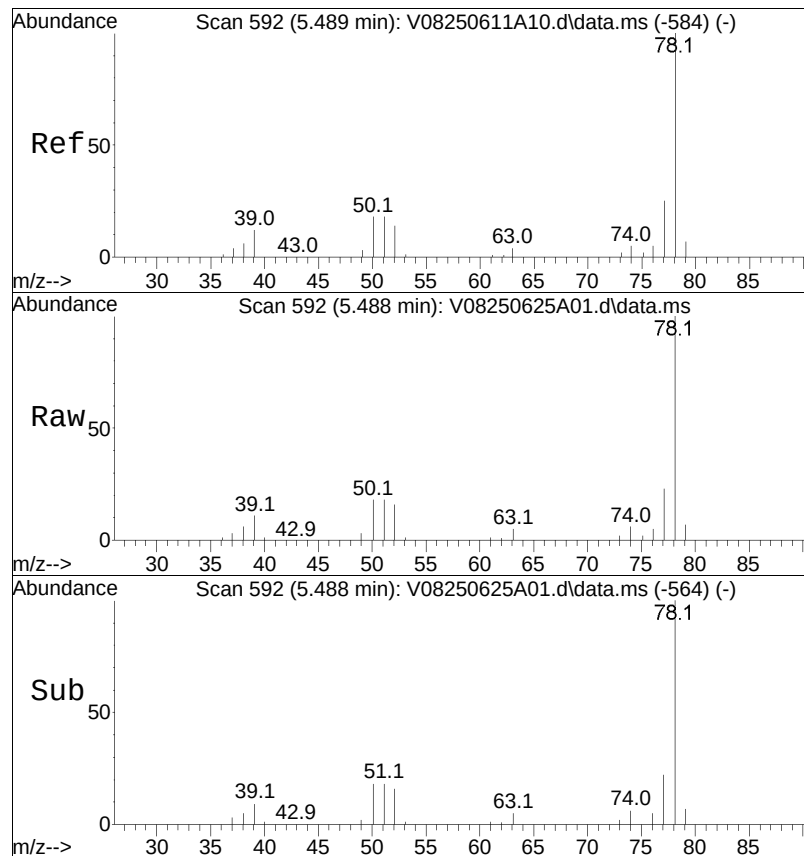




#39
 2-Butanone
 Concen: 8.33 ug/L
 RT: 5.208 min Scan# 552
 Delta R.T. -0.014 min
 Lab File: V08250625A01.d
 Acq: 25 Jun 2025 7:06 am

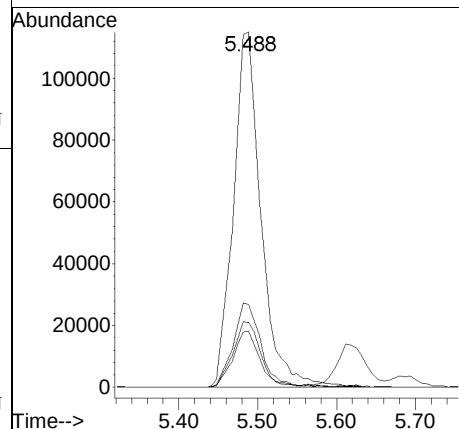
Tgt Ion: 43 Resp: 19079
 Ion Ratio Lower Upper
 43 100
 72 47.1 38.2 57.4

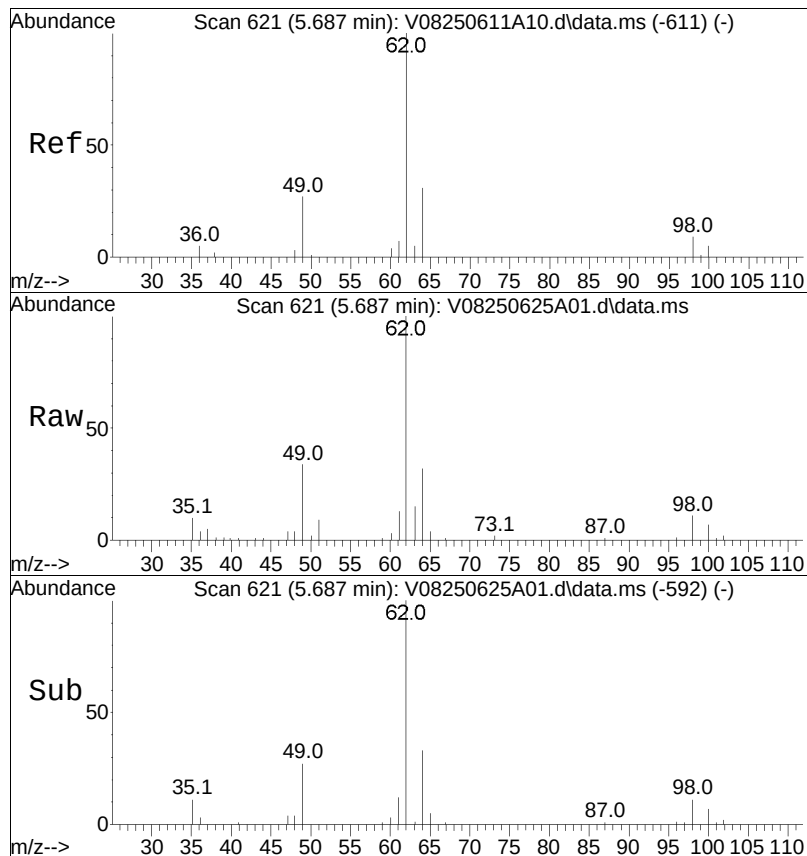




#41
Benzene
Concen: 8.92 ug/L
RT: 5.488 min Scan# 592
Delta R.T. -0.001 min
Lab File: V08250625A01.d
Acq: 25 Jun 2025 7:06 am

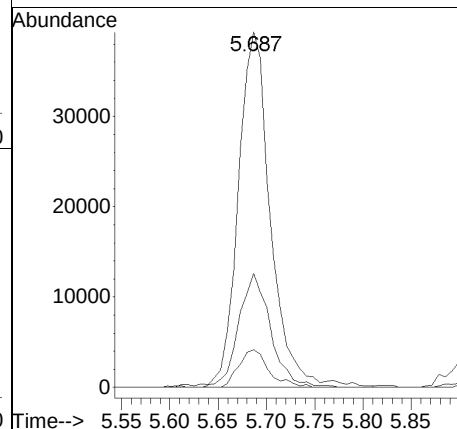
Tgt	Ion: 78	Resp:	276817
Ion	Ratio	Lower	Upper
78	100		
77	24.6	15.7	32.7
51	19.4	12.4	25.7
52	16.1	10.6	22.0

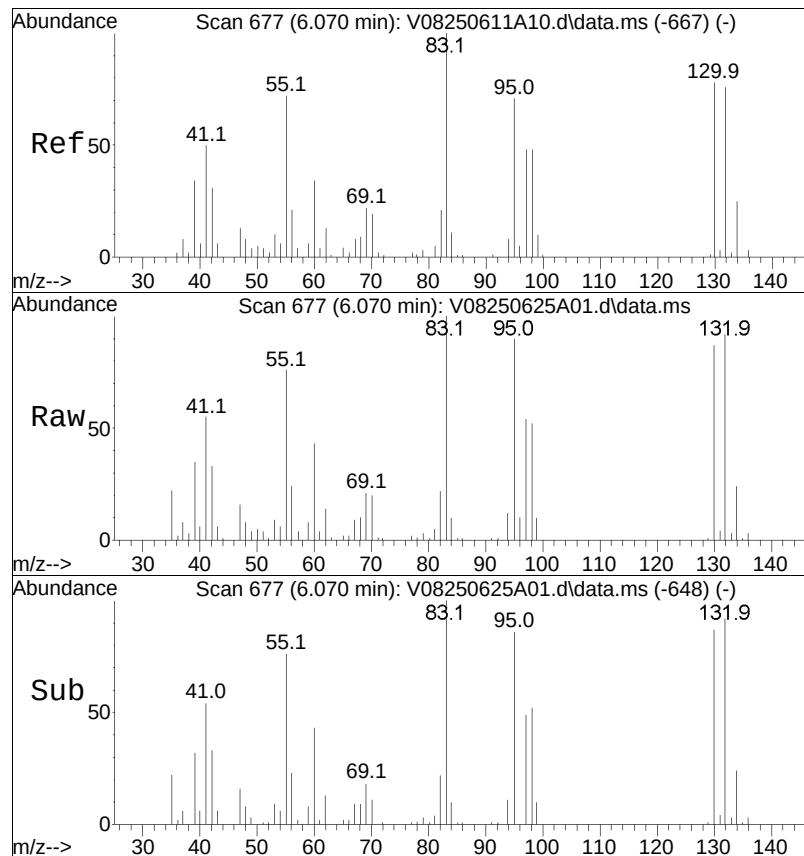




#44
 1,2-Dichloroethane
 Concen: 9.49 ug/L
 RT: 5.687 min Scan# 621
 Delta R.T. -0.000 min
 Lab File: V08250625A01.d
 Acq: 25 Jun 2025 7:06 am

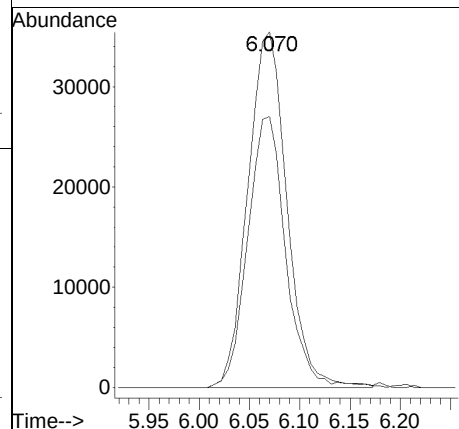
Tgt Ion	Ratio	Lower	Upper
62	100		
64	32.0	11.3	51.3
98	10.0	0.0	29.3

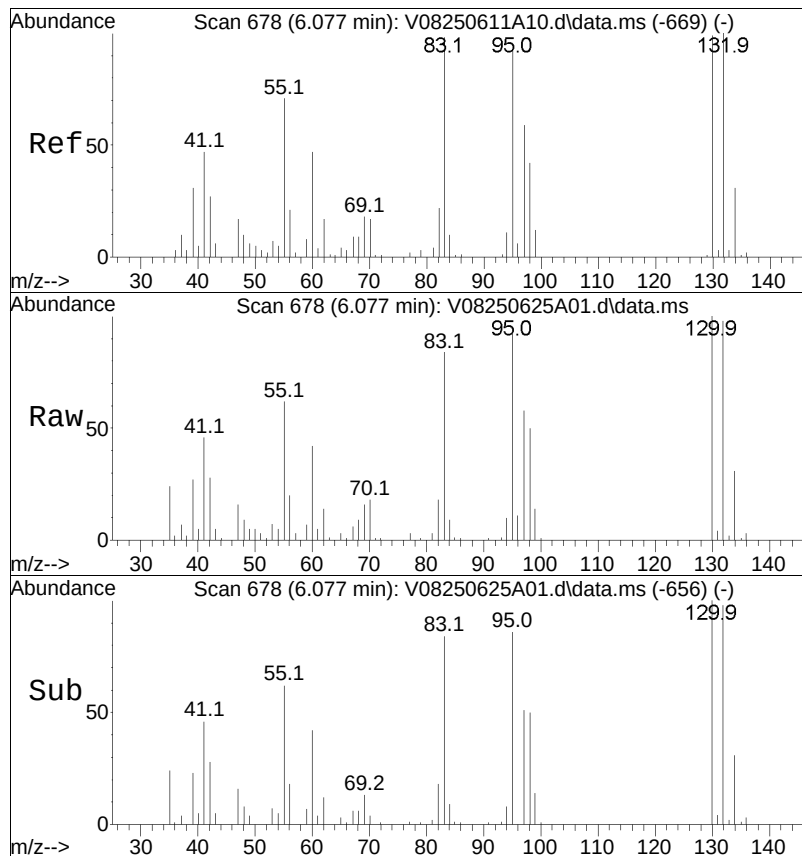




#47
Methyl cyclohexane
Concen: 8.23 ug/L
RT: 6.070 min Scan# 677
Delta R.T. -0.000 min
Lab File: V08250625A01.d
Acq: 25 Jun 2025 7:06 am

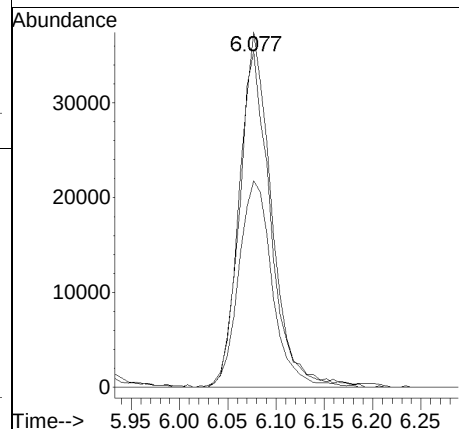
Tgt	Ion	Resp	Lower	Upper
83	100			
55	74.1	62.4	93.6	

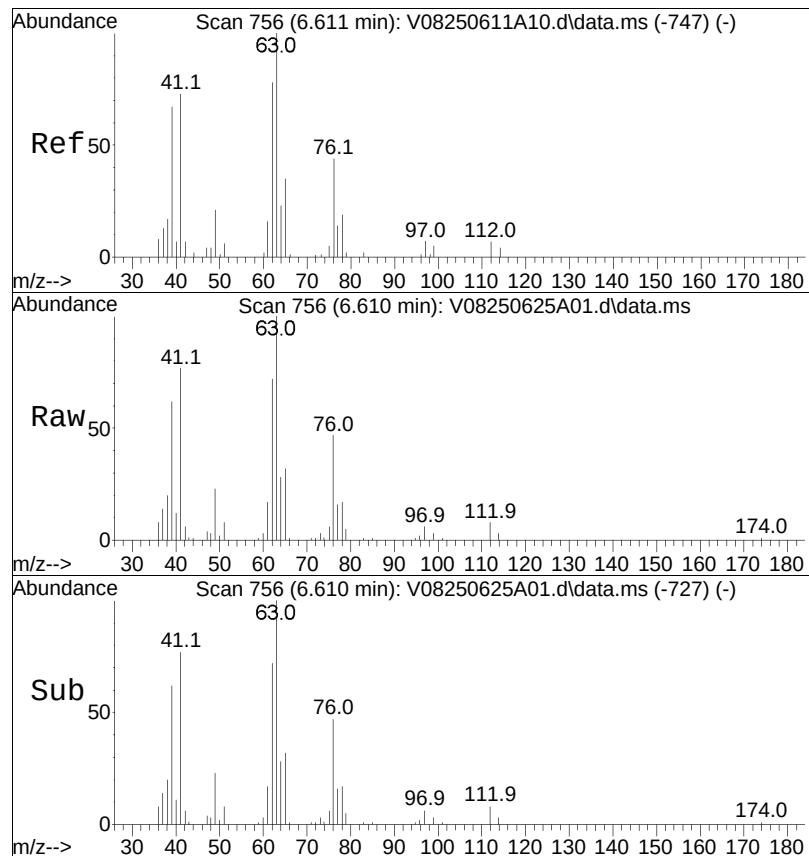




#48
 Trichloroethene
 Concen: 9.38 ug/L
 RT: 6.077 min Scan# 678
 Delta R.T. -0.000 min
 Lab File: V08250625A01.d
 Acq: 25 Jun 2025 7:06 am

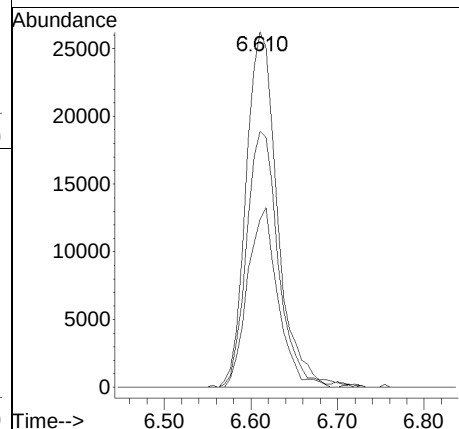
Tgt Ion	95	Resp	80212
Ion Ratio	100	Lower	Upper
95	100		
97	66.1	54.7	82.1
130	107.5	84.7	127.1

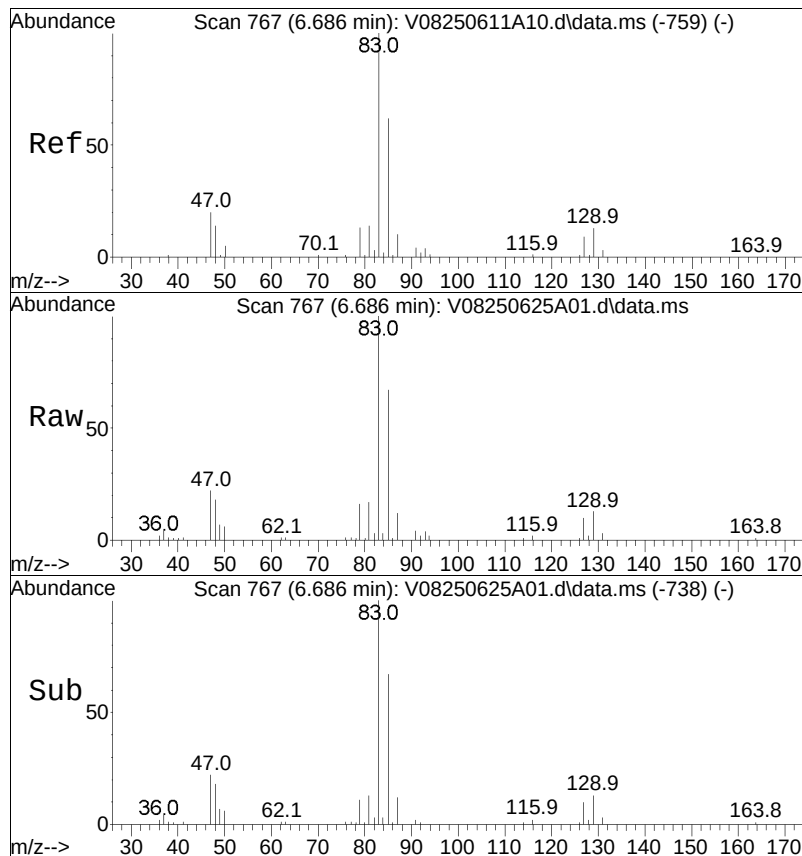




#51
 1,2-Dichloropropane
 Concen: 9.04 ug/L
 RT: 6.610 min Scan# 756
 Delta R.T. -0.001 min
 Lab File: V08250625A01.d
 Acq: 25 Jun 2025 7:06 am

Tgt Ion	Ratio	Lower	Upper
63	100		
62	72.4	58.2	87.4
76	48.8	35.9	53.9





#54

Bromodichloromethane

Concen: 9.61 ug/L

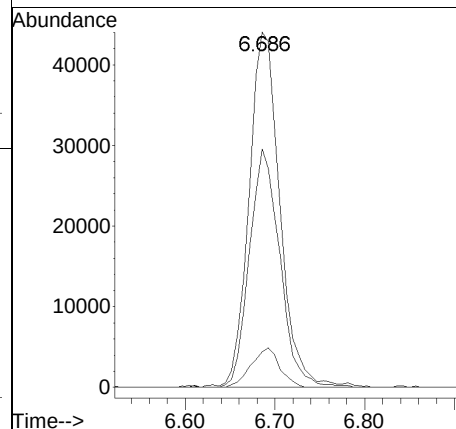
RT: 6.686 min Scan# 767

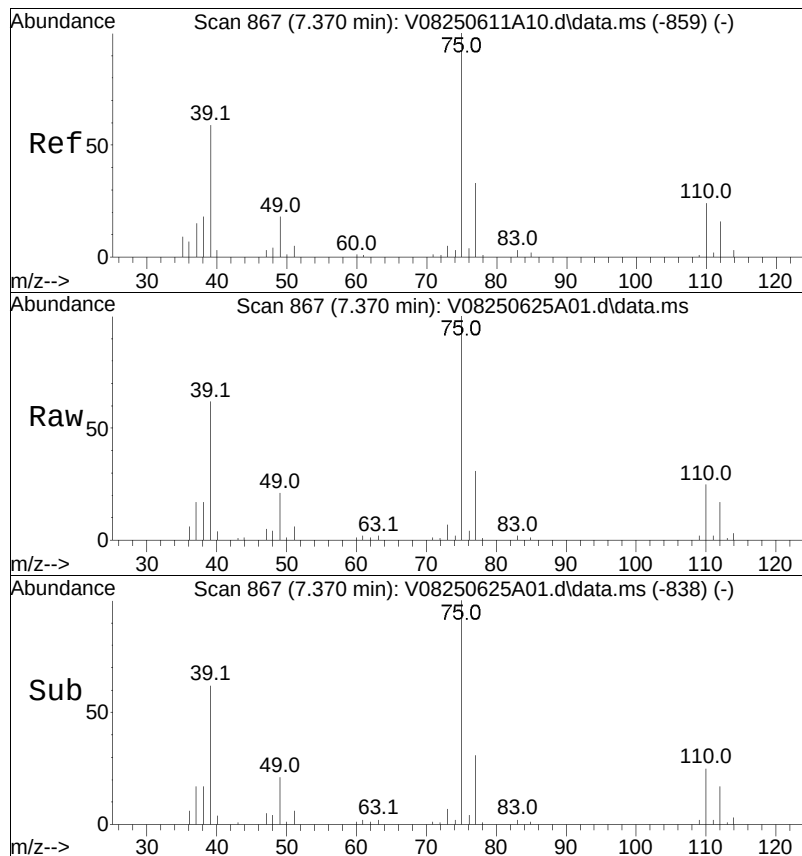
Delta R.T. -0.000 min

Lab File: V08250625A01.d

Acq: 25 Jun 2025 7:06 am

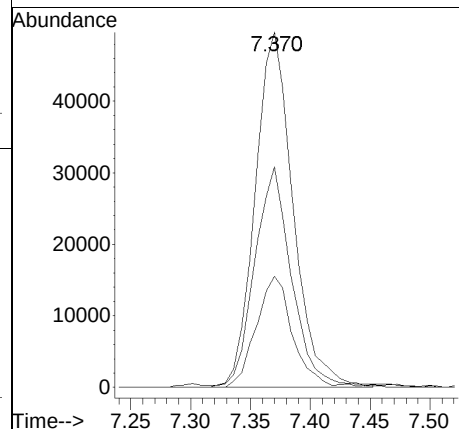
Tgt	Ion: 83	Resp:	105752
Ion	Ratio	Lower	Upper
83	100		
85	66.0	53.0	79.6
127	10.3	7.8	11.6

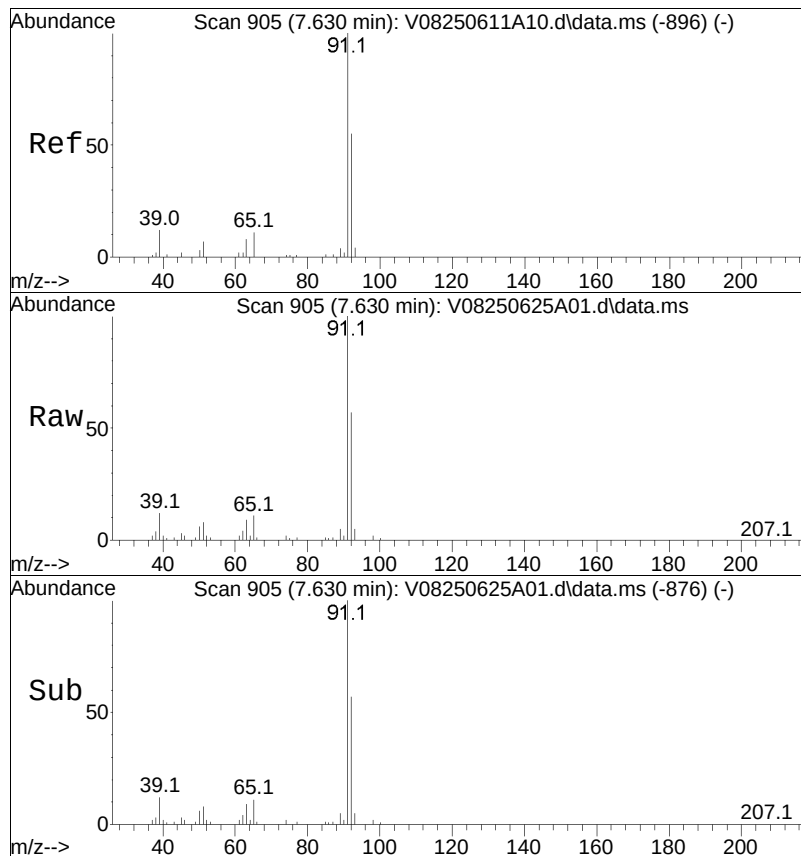




#58
 cis-1,3-Dichloropropene
 Concen: 9.93 ug/L
 RT: 7.370 min Scan# 867
 Delta R.T. -0.000 min
 Lab File: V08250625A01.d
 Acq: 25 Jun 2025 7:06 am

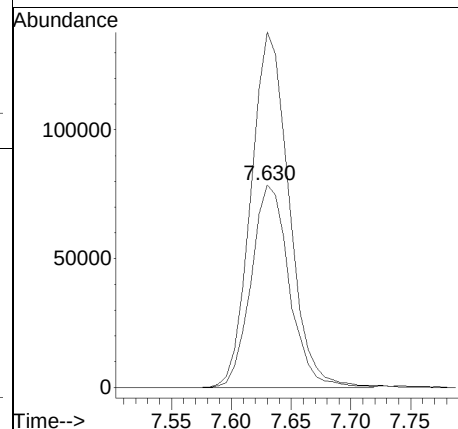
Tgt Ion:	75	Resp:	109980
Ion Ratio	Lower	Upper	
75	100		
77	30.3	25.5	38.3
39	58.3	46.9	70.3

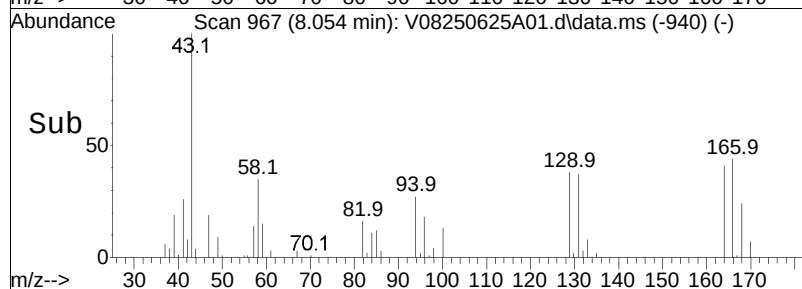
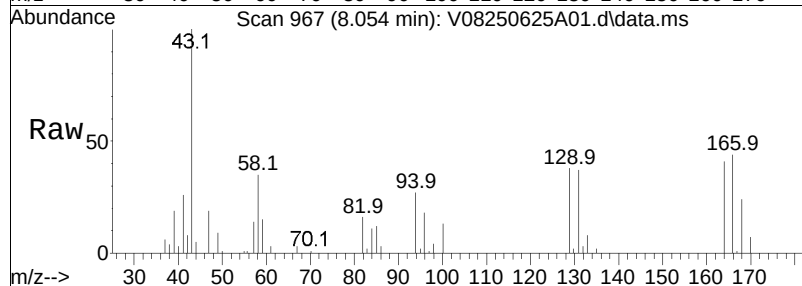
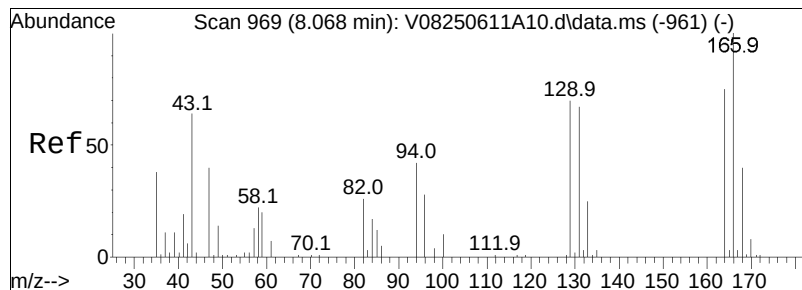




#61
Toluene
Concen: 9.91 ug/L
RT: 7.630 min Scan# 905
Delta R.T. -0.000 min
Lab File: V08250625A01.d
Acq: 25 Jun 2025 7:06 am

Tgt	Ion	Resp	Lower	Upper
92	100			
91	175.7	140.8	211.2	





#62

4-Methyl-2-pentanone

Concen: 8.59 ug/L

RT: 8.054 min Scan# 967

Delta R.T. -0.014 min

Lab File: V08250625A01.d

Acq: 25 Jun 2025 7:06 am

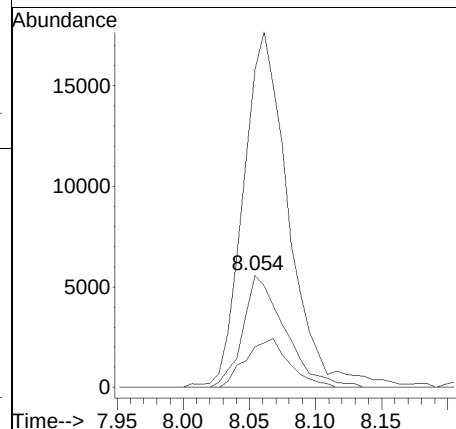
Tgt Ion: 58 Resp: 12379

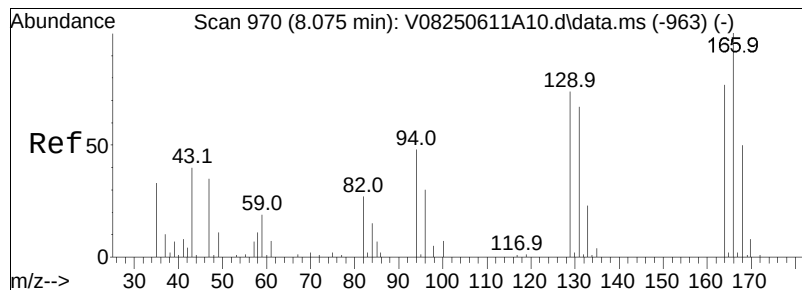
Ion Ratio Lower Upper

58 100

100 45.3 33.6 50.4

43 344.0 271.0 406.6





#63

Tetrachloroethene

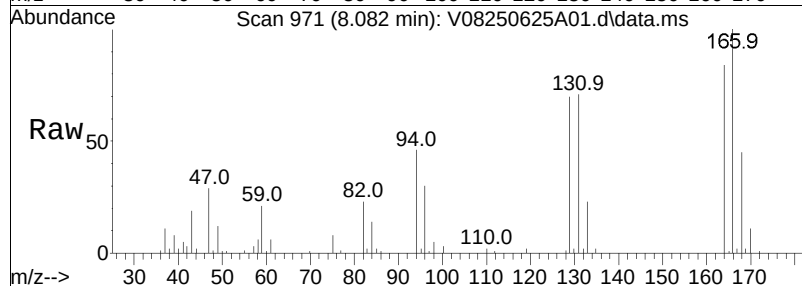
Concen: 9.76 ug/L

RT: 8.082 min Scan# 971

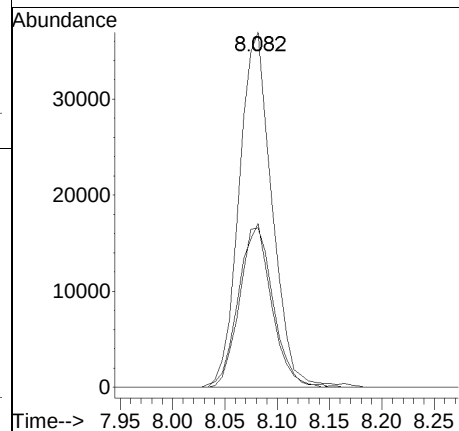
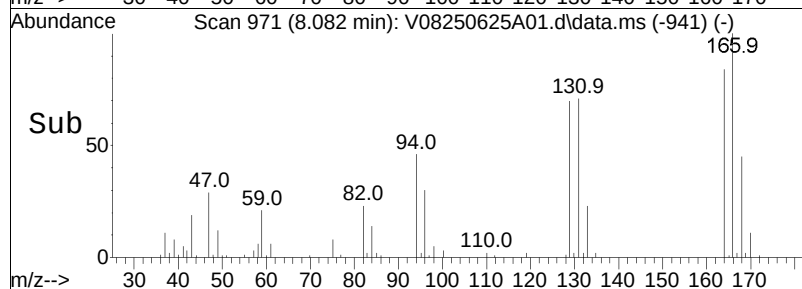
Delta R.T. 0.007 min

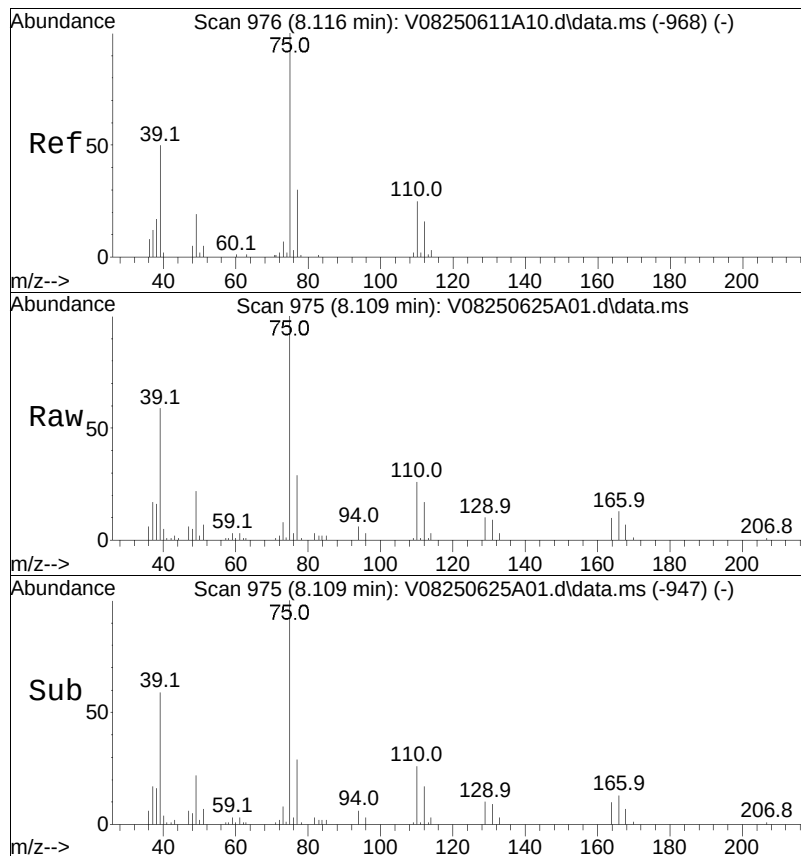
Lab File: V08250625A01.d

Acq: 25 Jun 2025 7:06 am



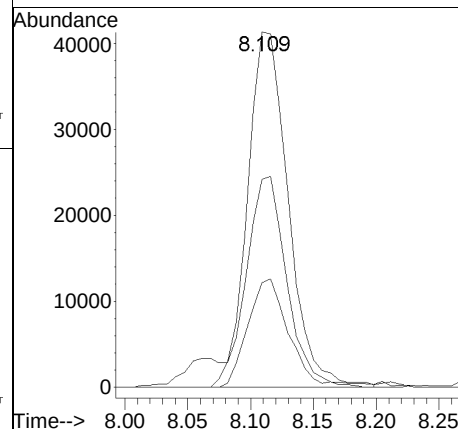
Tgt	Ion:166	Resp:	80756
Ion	Ratio	Lower	Upper
166	100		
168	46.6	26.2	66.2
94	46.4	23.6	63.6

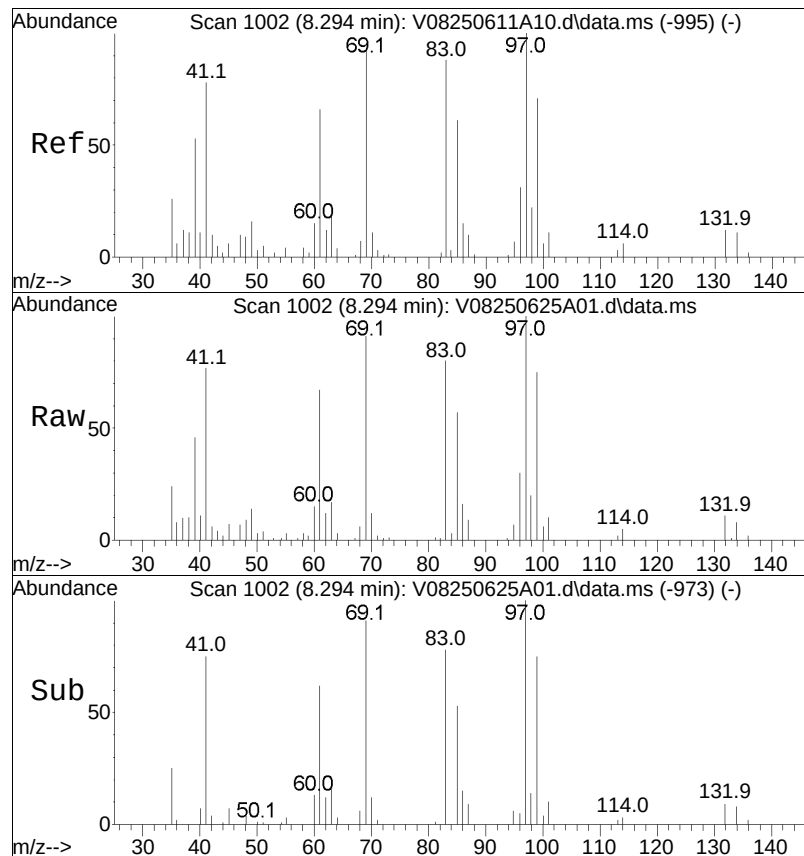




#65
trans-1,3-Dichloropropene
Concen: 10.70 ug/L
RT: 8.109 min Scan# 975
Delta R.T. -0.007 min
Lab File: V08250625A01.d
Acq: 25 Jun 2025 7:06 am

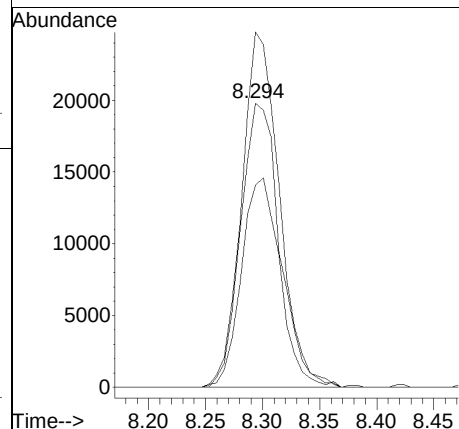
Tgt Ion:	75	Resp:	93559
Ion Ratio	Lower	Upper	
75	100		
77	30.5	9.8	49.8
39	57.1	45.2	85.2

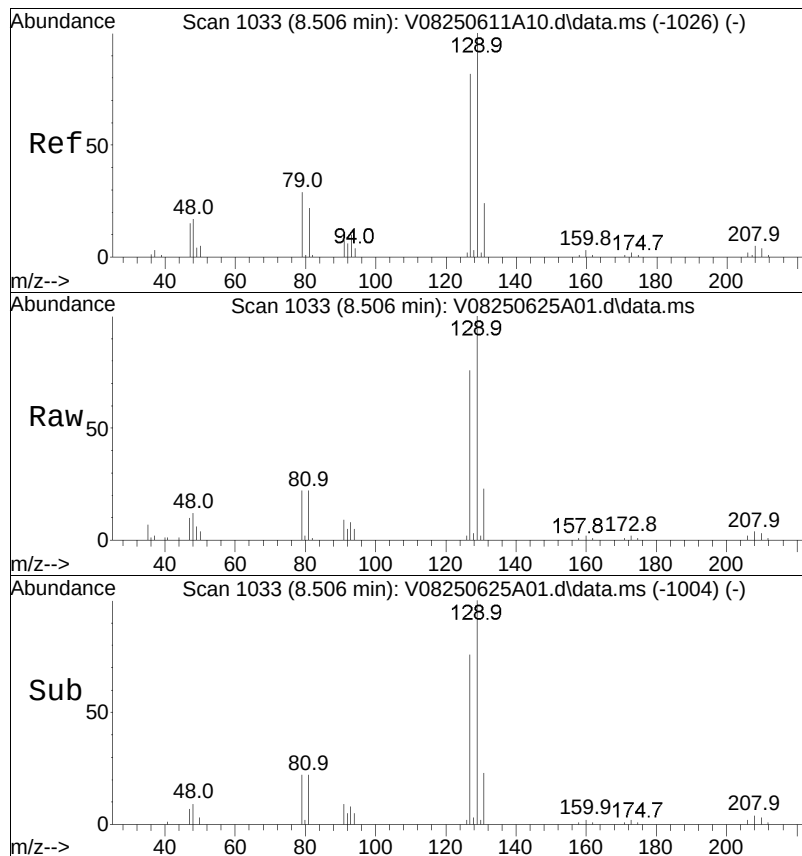




#68
 1,1,2-Trichloroethane
 Concen: 9.59 ug/L
 RT: 8.294 min Scan# 1002
 Delta R.T. -0.000 min
 Lab File: V08250625A01.d
 Acq: 25 Jun 2025 7:06 am

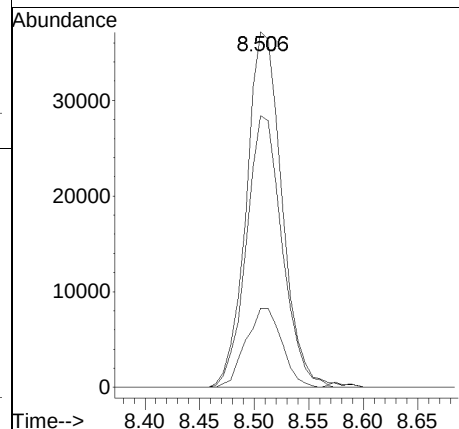
Tgt Ion:	83	Resp:	47439
Ion Ratio	Lower	Upper	
83	100		
97	120.1	98.2	138.2
85	72.3	49.9	89.9

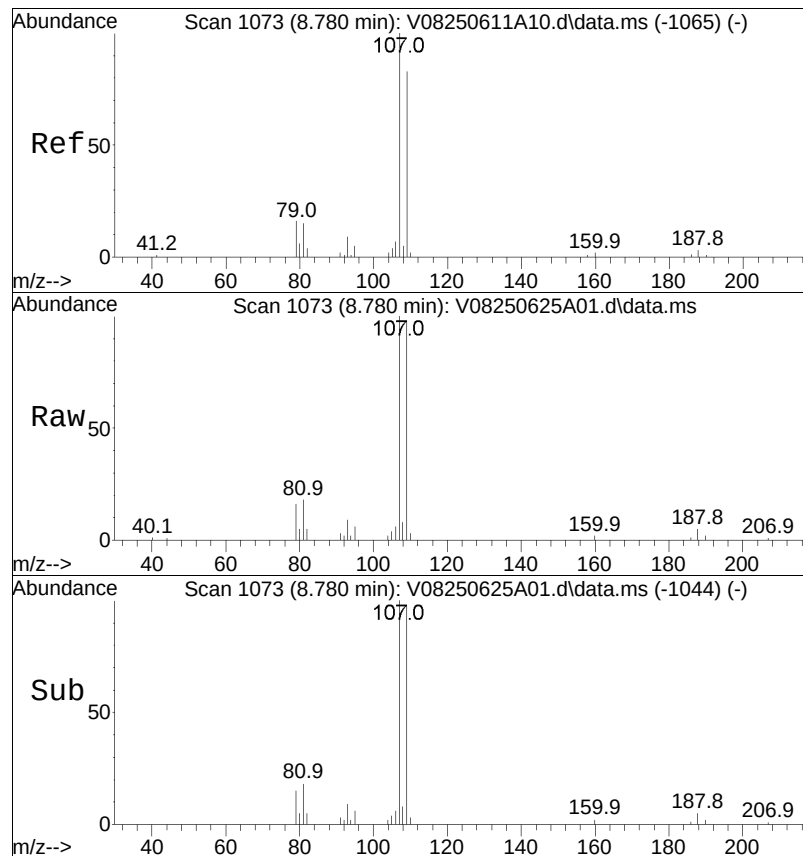




#69
 Chlorodibromomethane
 Concen: 10.34 ug/L
 RT: 8.506 min Scan# 1033
 Delta R.T. -0.000 min
 Lab File: V08250625A01.d
 Acq: 25 Jun 2025 7:06 am

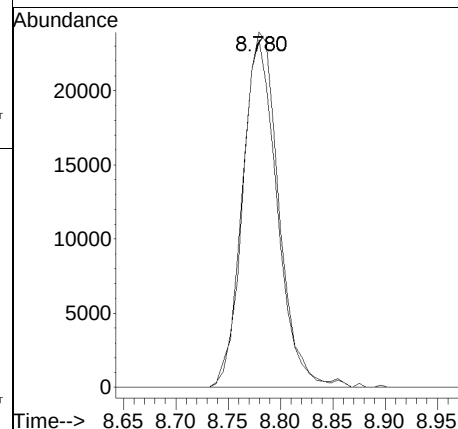
Tgt Ion	Ratio	Resp	Lower	Upper
129	100	84592		
81	22.5		3.3	43.3
127	77.2		58.2	98.2

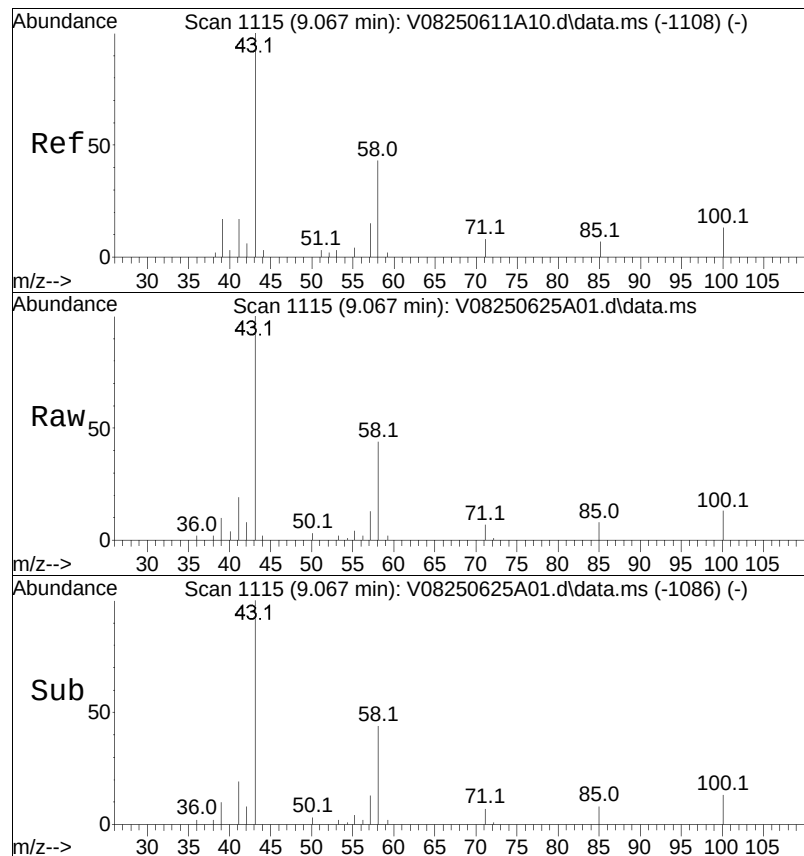




#71
 1,2-Dibromoethane
 Concen: 10.74 ug/L
 RT: 8.780 min Scan# 1073
 Delta R.T. -0.000 min
 Lab File: V08250625A01.d
 Acq: 25 Jun 2025 7:06 am

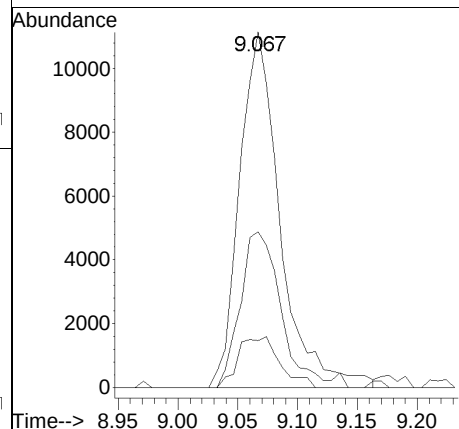
Tgt Ion:107 Resp: 57794
 Ion Ratio Lower Upper
 107 100
 109 92.7 73.0 109.4

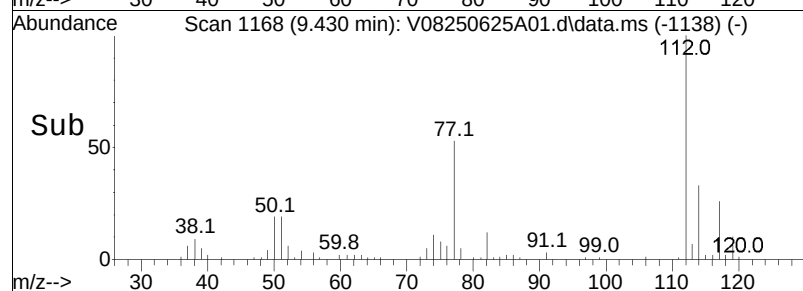
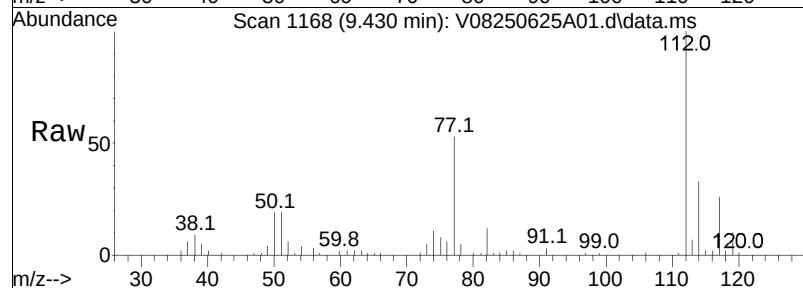
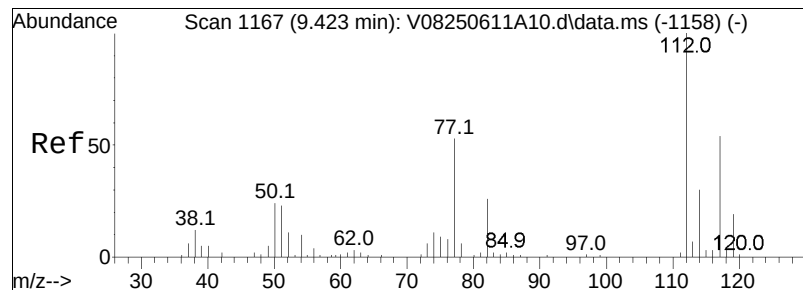




#72
 2-Hexanone
 Concen: 8.69 ug/L
 RT: 9.067 min Scan# 1115
 Delta R.T. -0.000 min
 Lab File: V08250625A01.d
 Acq: 25 Jun 2025 7:06 am

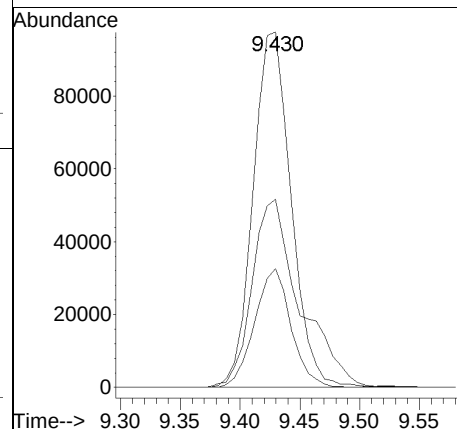
Tgt Ion	Ratio	Lower	Upper
43	100		
58	44.3	33.5	50.3
57	14.6	12.6	18.8

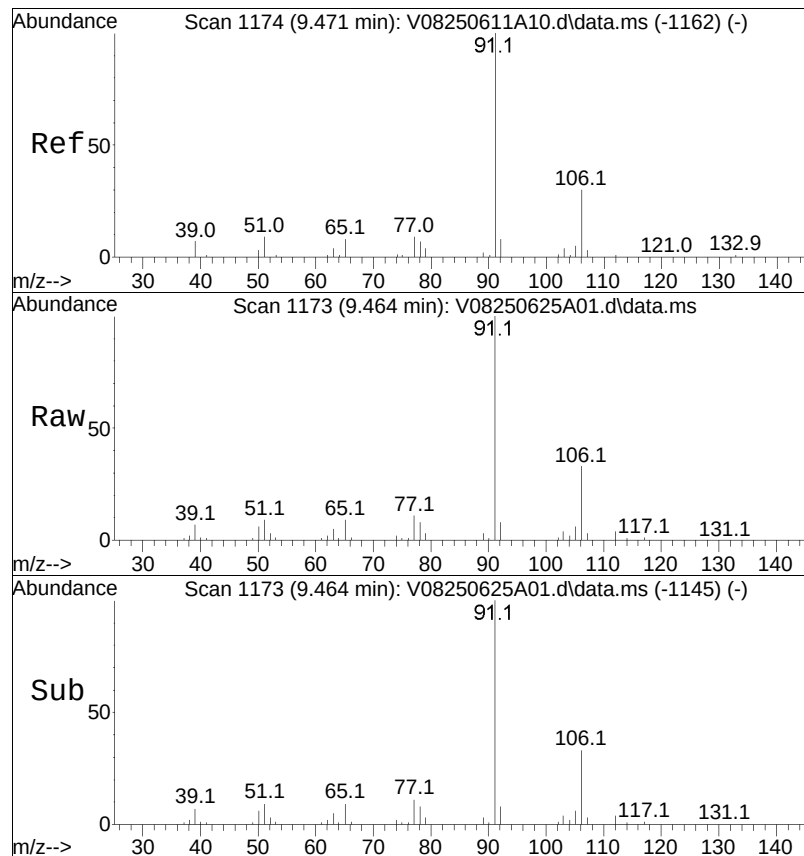




#73
 Chlorobenzene
 Concen: 9.80 ug/L
 RT: 9.430 min Scan# 1168
 Delta R.T. 0.007 min
 Lab File: V08250625A01.d
 Acq: 25 Jun 2025 7:06 am

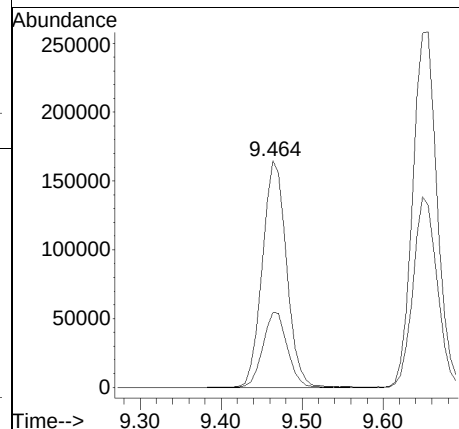
Tgt Ion:	112	Resp:	215435
Ion Ratio	Lower	Upper	
112	100		
77	66.7	55.3	82.9
114	32.0	25.4	38.2

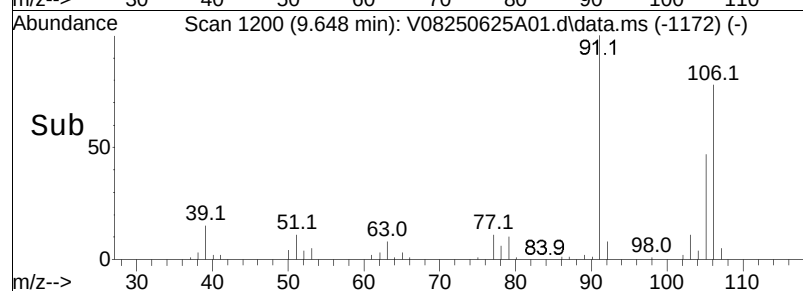
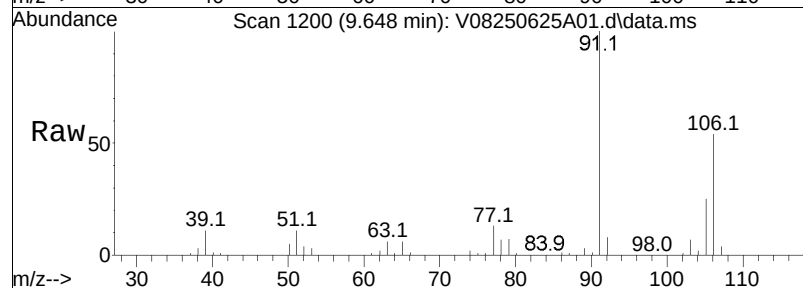
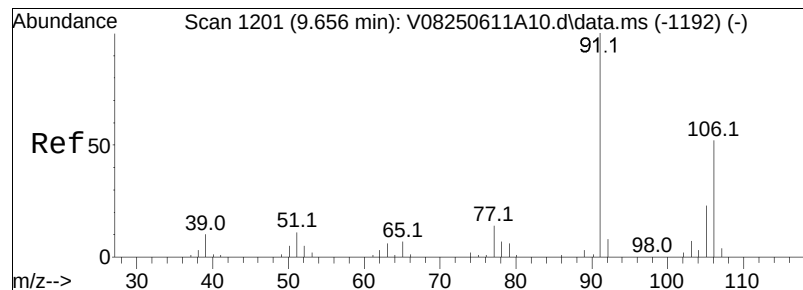




#74
 Ethylbenzene
 Concen: 9.74 ug/L
 RT: 9.464 min Scan# 1173
 Delta R.T. -0.007 min
 Lab File: V08250625A01.d
 Acq: 25 Jun 2025 7:06 am

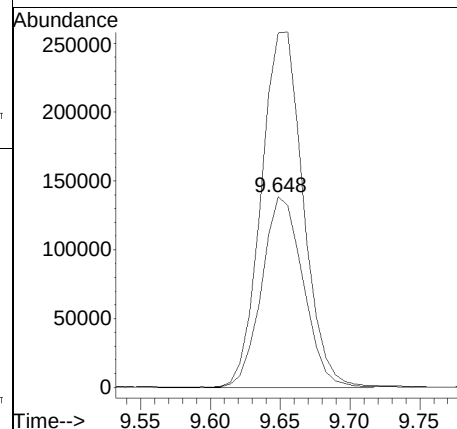
Tgt Ion	Ratio	Lower	Upper
91	100		
106	33.2	25.4	38.0

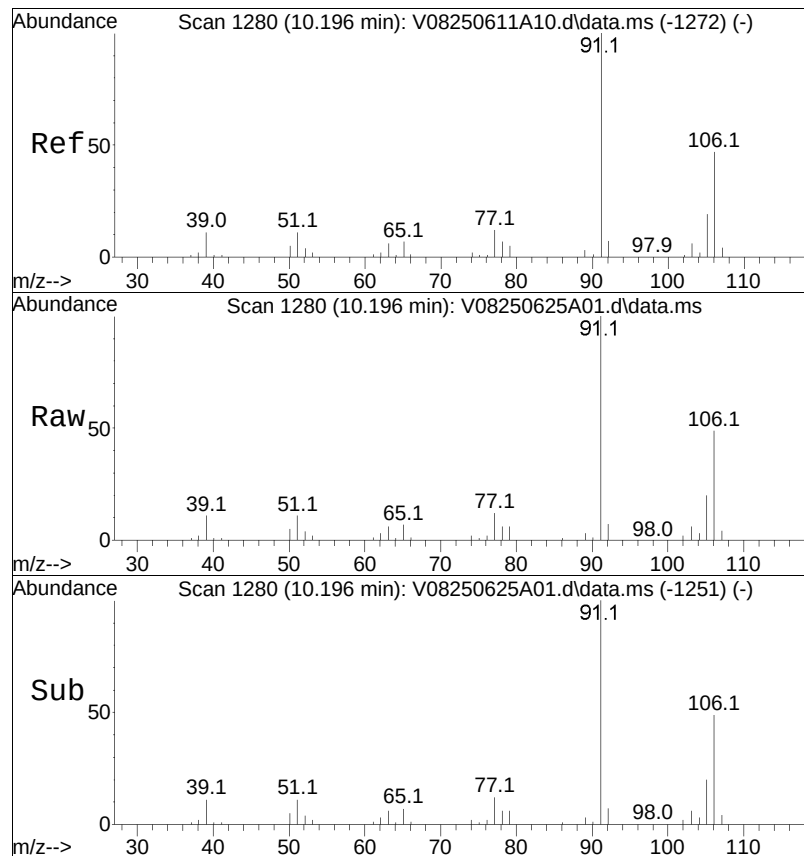




#76
 p/m Xylene
 Concen: 18.51 ug/L
 RT: 9.648 min Scan# 1200
 Delta R.T. -0.008 min
 Lab File: V08250625A01.d
 Acq: 25 Jun 2025 7:06 am

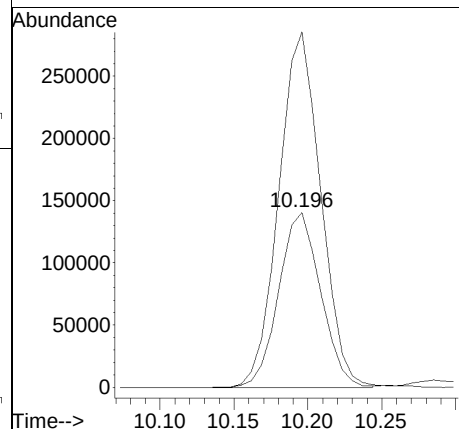
Tgt Ion	Ratio	Lower	Upper
106	100		
91	189.0	155.4	233.2

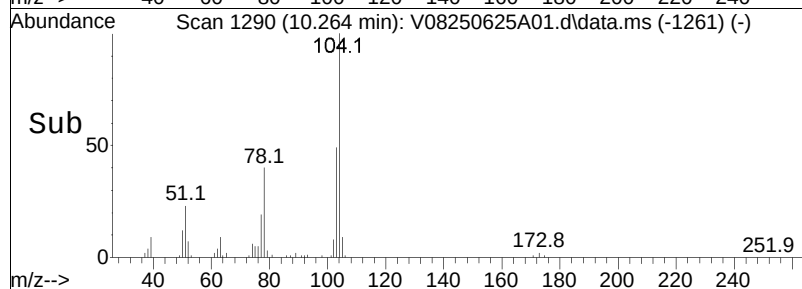
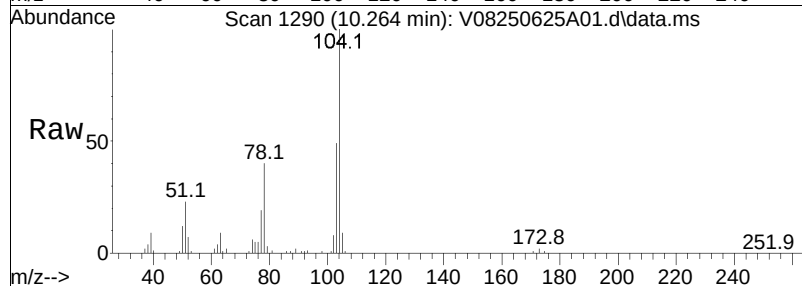
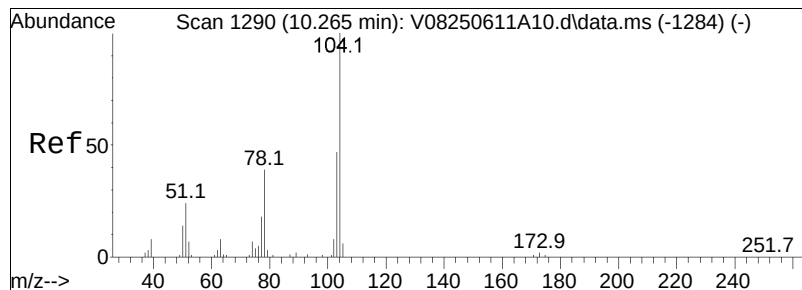




#77
 o Xylene
 Concen: 18.19 ug/L
 RT: 10.196 min Scan# 1280
 Delta R.T. -0.000 min
 Lab File: V08250625A01.d
 Acq: 25 Jun 2025 7:06 am

Tgt	Ion	Ratio	Lower	Upper
106	100			
91	203.5	167.4	251.0	





#78

Styrene

Concen: 16.33 ug/L

RT: 10.264 min Scan# 1290

Delta R.T. -0.001 min

Lab File: V08250625A01.d

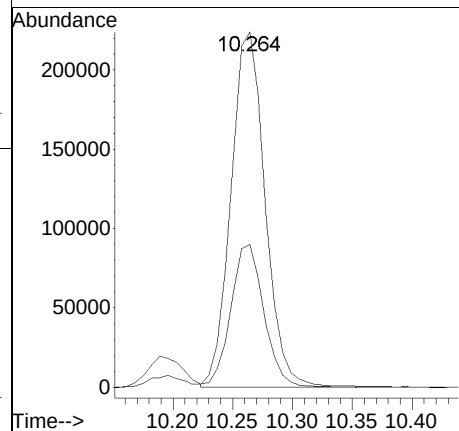
Acq: 25 Jun 2025 7:06 am

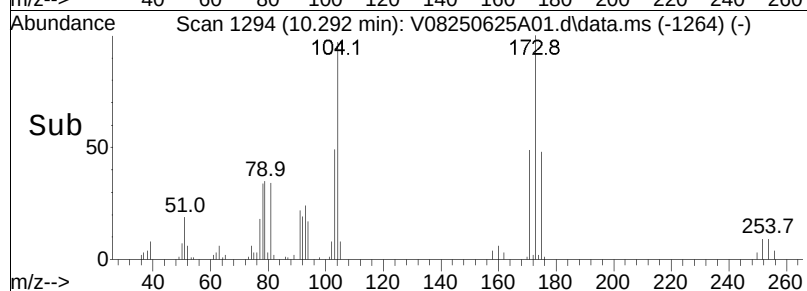
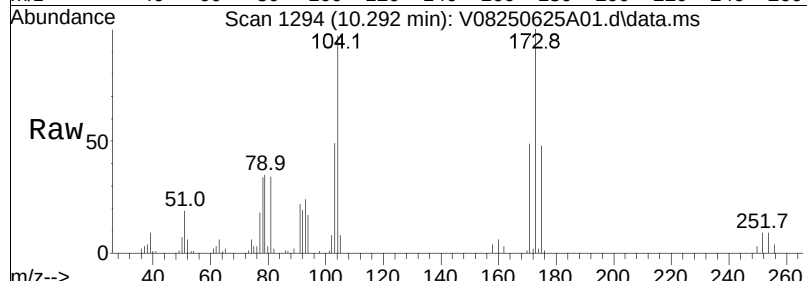
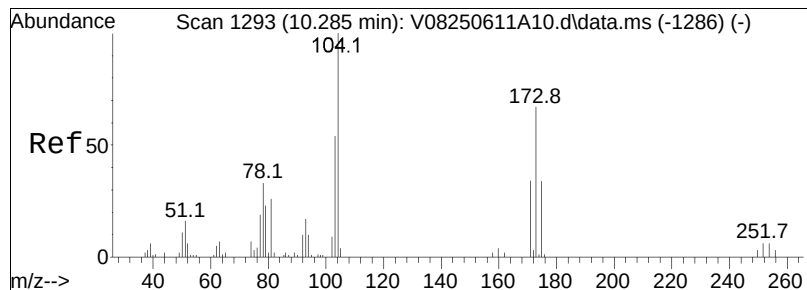
Tgt Ion:104 Resp: 443432

Ion Ratio Lower Upper

104 100

78 39.3 31.9 47.9





#80

Bromoform

Concen: 9.91 ug/L

RT: 10.292 min Scan# 1294

Delta R.T. 0.007 min

Lab File: V08250625A01.d

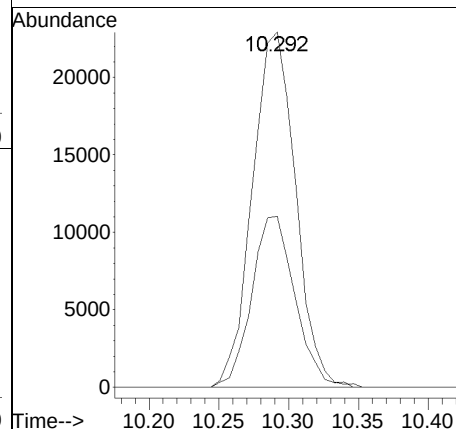
Acq: 25 Jun 2025 7:06 am

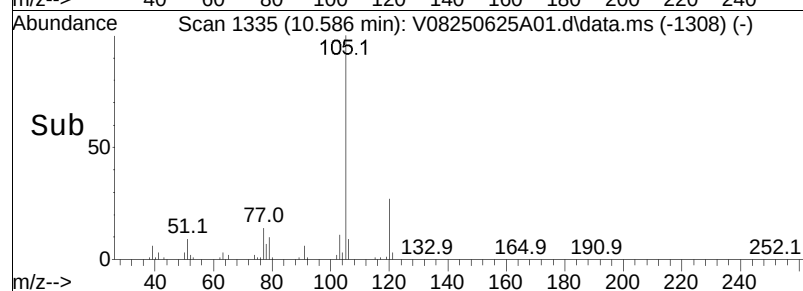
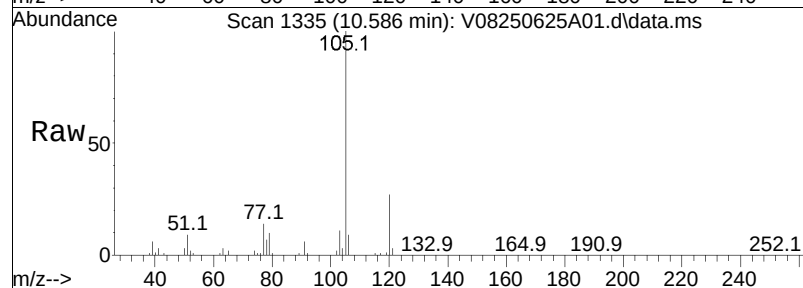
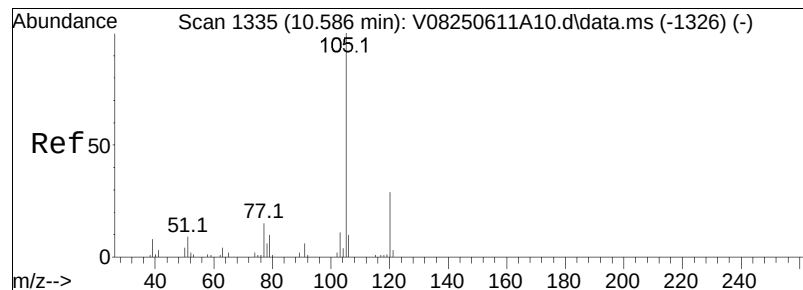
Tgt Ion:173 Resp: 49393

Ion Ratio Lower Upper

173 100

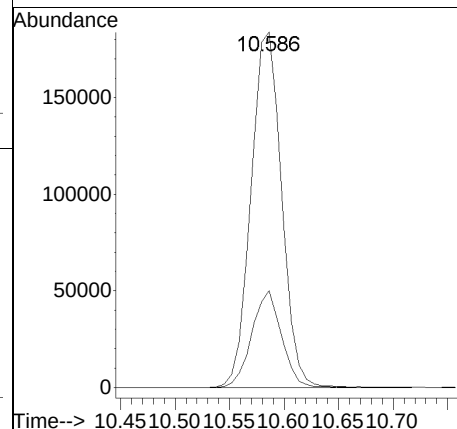
175 48.3 27.4 67.4

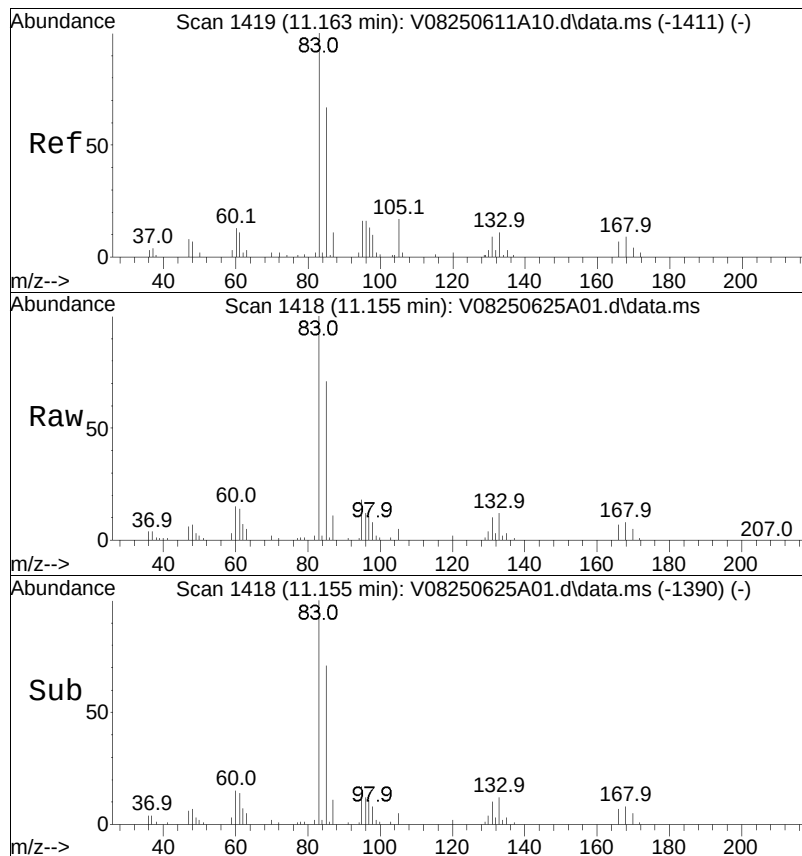




#82
Isopropylbenzene
Concen: 10.35 ug/L
RT: 10.586 min Scan# 1335
Delta R.T. 0.000 min
Lab File: V08250625A01.d
Acq: 25 Jun 2025 7:06 am

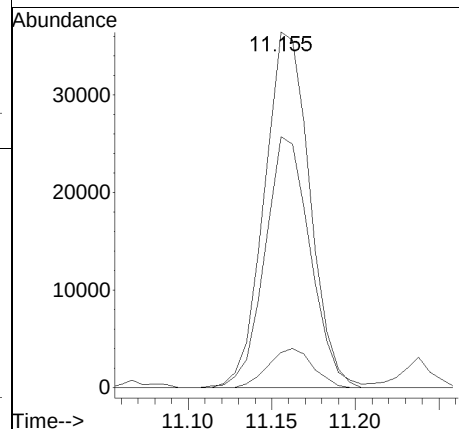
Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.4	7.3	47.3

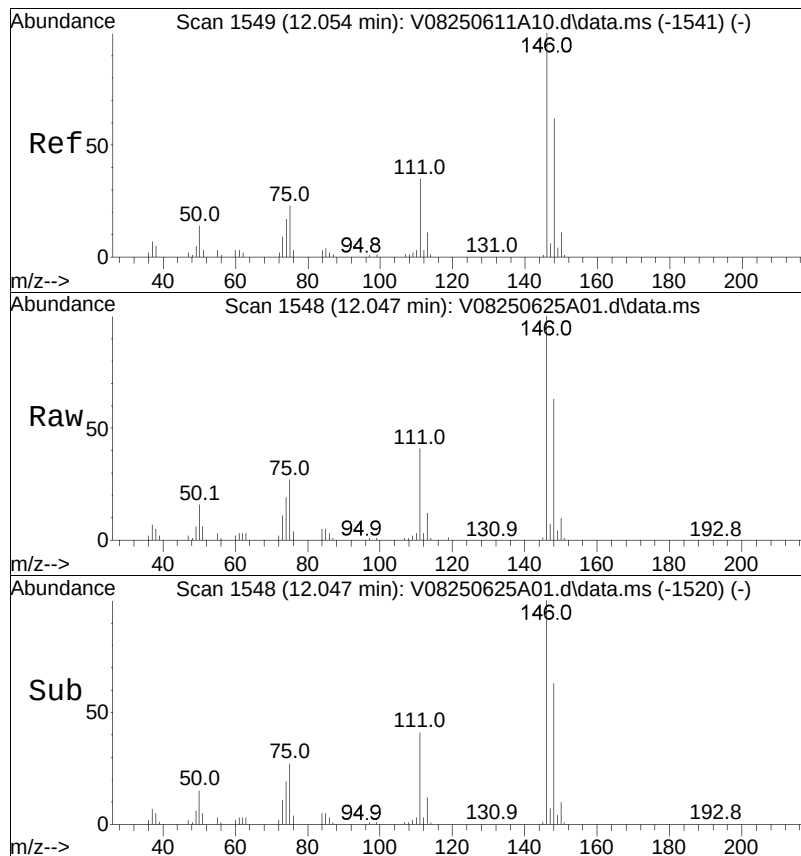




#87
 1,1,2,2-Tetrachloroethane
 Concen: 10.48 ug/L
 RT: 11.155 min Scan# 1418
 Delta R.T. -0.008 min
 Lab File: V08250625A01.d
 Acq: 25 Jun 2025 7:06 am

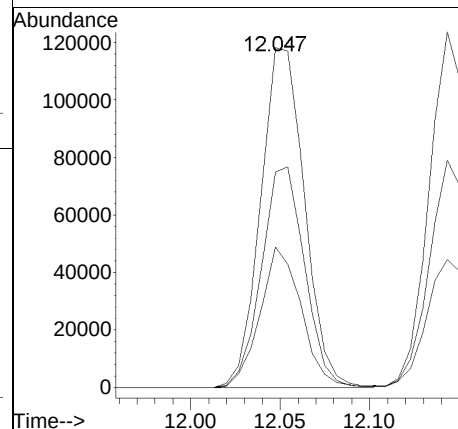
Tgt Ion:	83	Resp:	68688
Ion Ratio	Lower	Upper	
83	100		
131	10.7	0.0	29.6
85	70.6	49.7	89.7

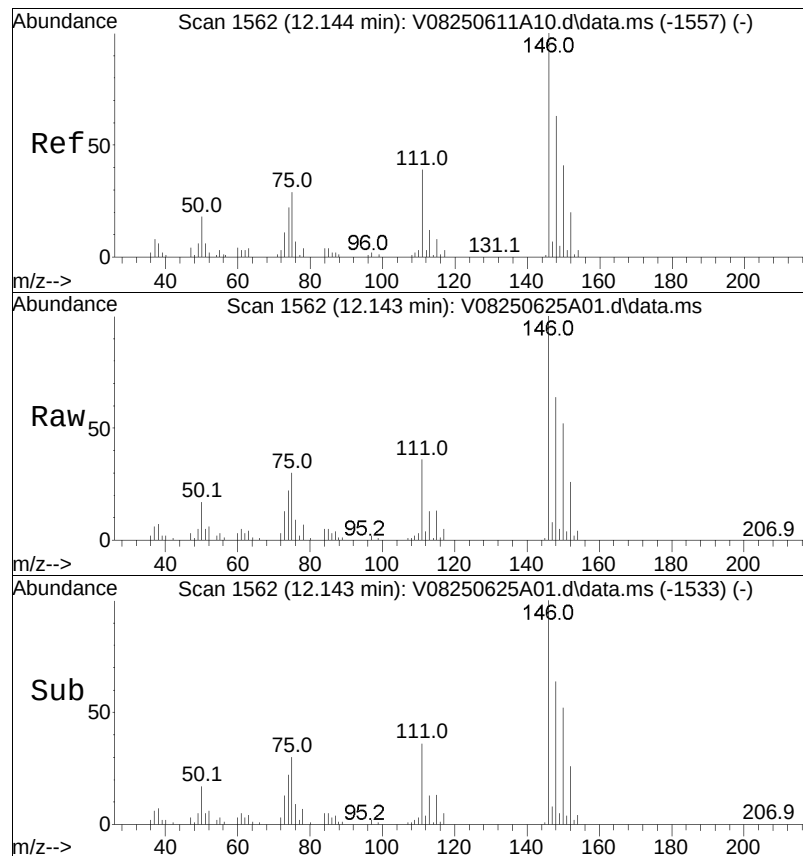




#100
 1,3-Dichlorobenzene
 Concen: 10.42 ug/L
 RT: 12.047 min Scan# 1548
 Delta R.T. -0.007 min
 Lab File: V08250625A01.d
 Acq: 25 Jun 2025 7:06 am

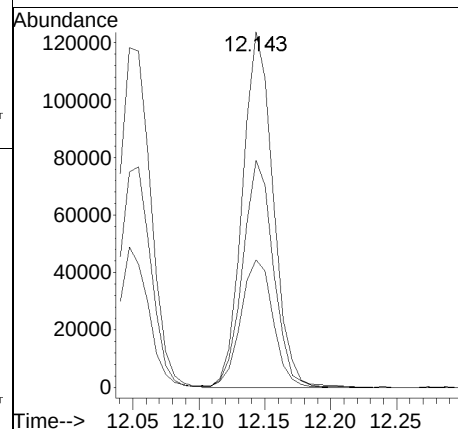
Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.9	24.4	50.6
148	63.7	41.0	85.2

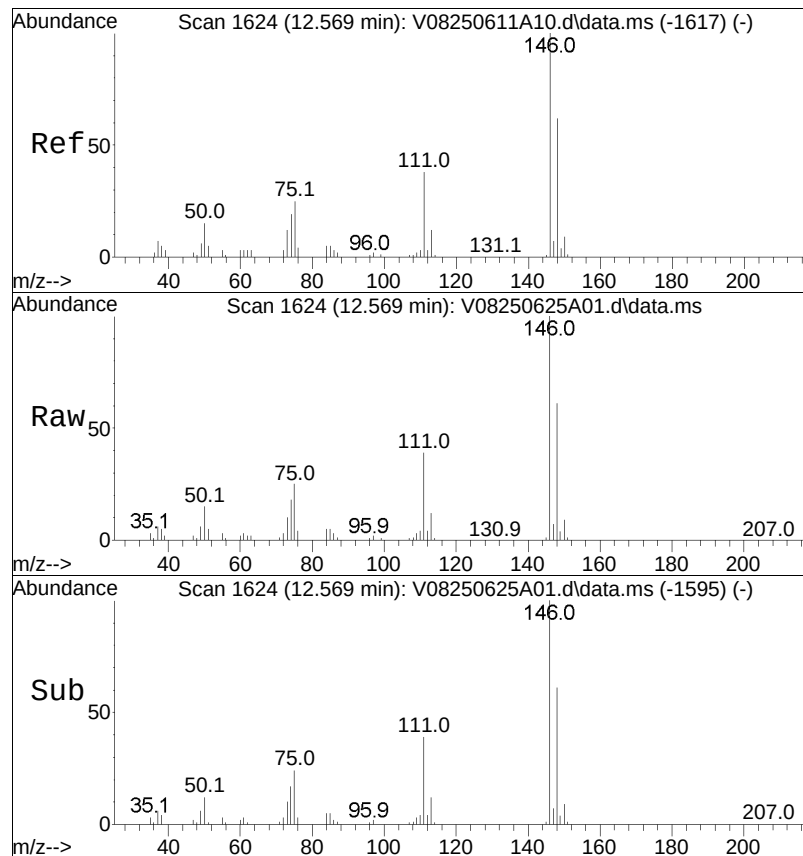




#101
 1,4-Dichlorobenzene
 Concen: 10.18 ug/L
 RT: 12.143 min Scan# 1562
 Delta R.T. -0.001 min
 Lab File: V08250625A01.d
 Acq: 25 Jun 2025 7:06 am

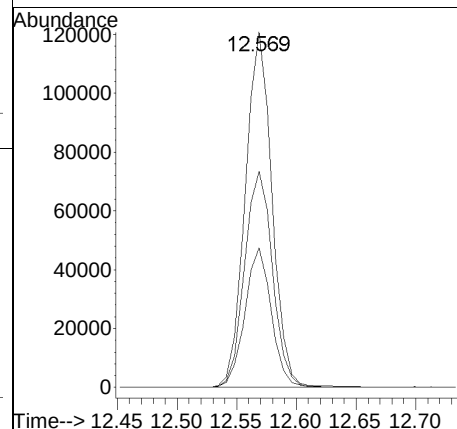
Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.9	29.8	44.6
148	64.2	50.9	76.3

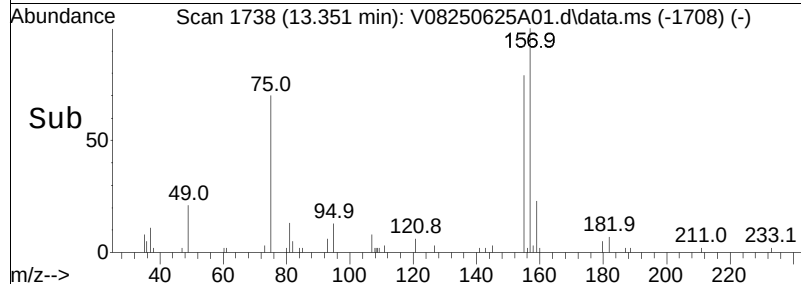
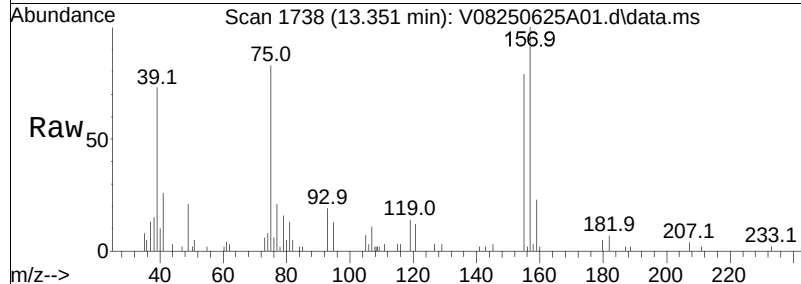
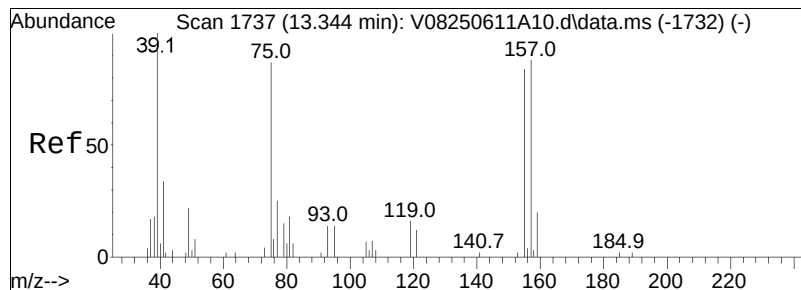




#104
 1,2-Dichlorobenzene
 Concen: 10.62 ug/L
 RT: 12.569 min Scan# 1624
 Delta R.T. -0.000 min
 Lab File: V08250625A01.d
 Acq: 25 Jun 2025 7:06 am

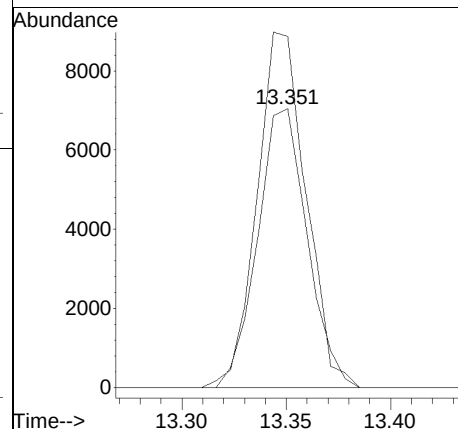
Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.9	25.0	51.8
148	63.3	40.0	83.2

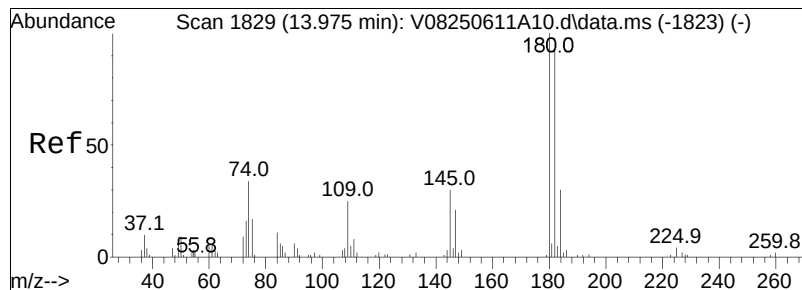




#106
 1,2-Dibromo-3-chloropropane
 Concen: 11.20 ug/L
 RT: 13.351 min Scan# 1738
 Delta R.T. 0.007 min
 Lab File: V08250625A01.d
 Acq: 25 Jun 2025 7:06 am

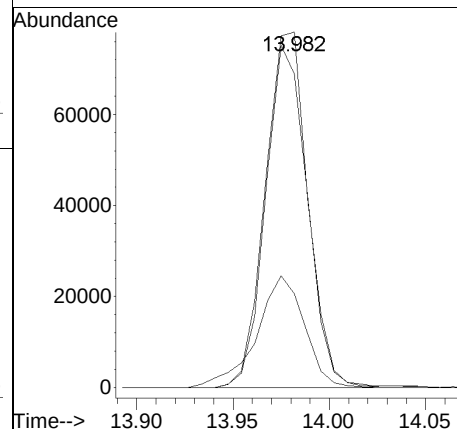
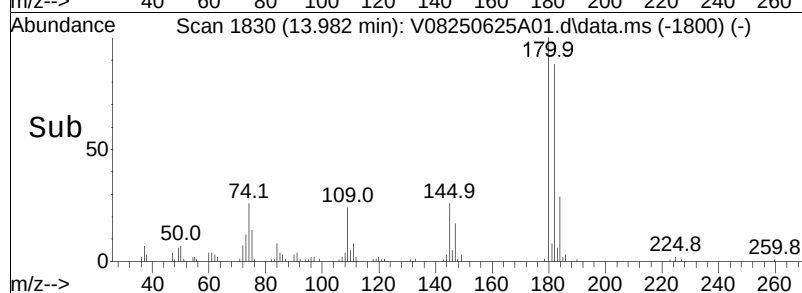
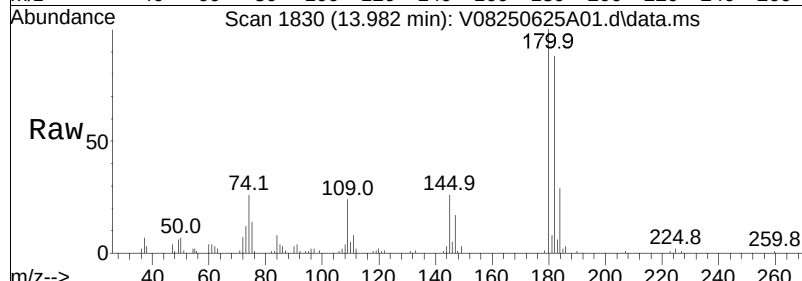
Tgt Ion	Ratio	Lower	Upper
155	100		
157	125.4	97.9	146.9

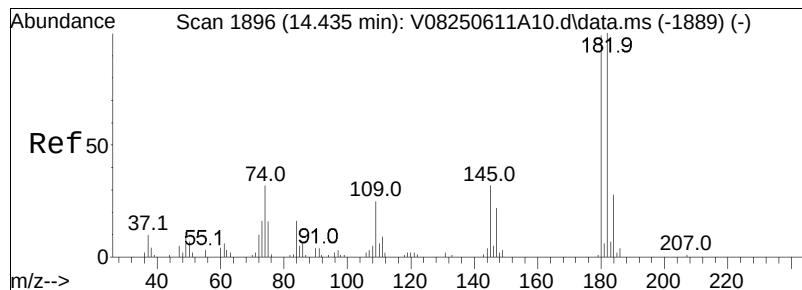




#109
 1,2,4-Trichlorobenzene
 Concen: 10.31 ug/L
 RT: 13.982 min Scan# 1830
 Delta R.T. 0.007 min
 Lab File: V08250625A01.d
 Acq: 25 Jun 2025 7:06 am

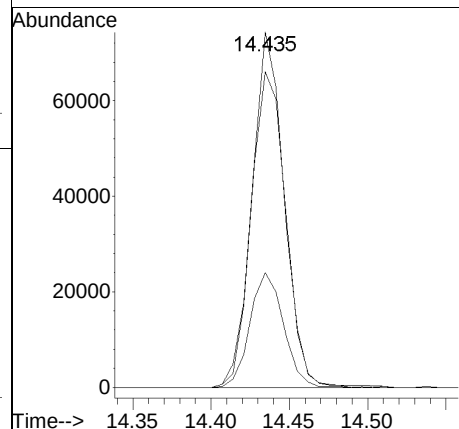
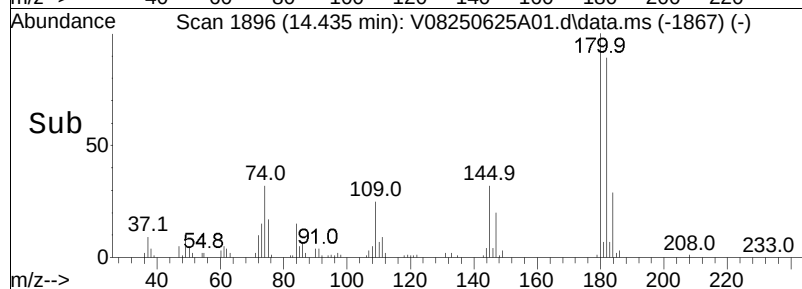
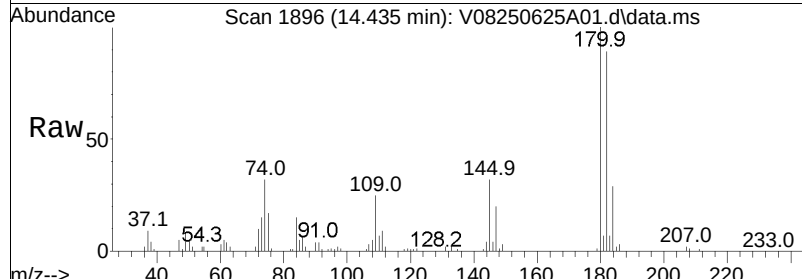
Tgt	Ion	Ratio	Lower	Upper
180	100			
182	94.1	74.1	111.1	
145	35.1	27.8	41.8	





#111
 1,2,3-Trichlorobenzene
 Concen: 10.14 ug/L
 RT: 14.435 min Scan# 1896
 Delta R.T. -0.000 min
 Lab File: V08250625A01.d
 Acq: 25 Jun 2025 7:06 am

Tgt	Ion:180	Resp:	106156
Ion	Ratio	Lower	Upper
180	100		
182	94.8	76.1	114.1
145	33.6	25.9	38.9



Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250625A\
 Data File : V08250625A02.d
 Acq On : 25 Jun 2025 7:29 am
 Operator : VOA108:PID
 Sample : WG2084241-4,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG2084241,ICAL22356 (Sig #1); WG,ICAL22356 (Sig #2)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 25 07:52:10 2025
 Quant Method : K:\VOA108\2025\250625A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250625A\V08250625A01.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.899	96	302737	10.000	ug/L	0.00
Standard Area 1 = 305323			Recovery = 99.15%			
59) Chlorobenzene-d5	9.402	117	232779	10.000	ug/L	0.00
Standard Area 1 = 230501			Recovery = 100.99%			
79) 1,4-Dichlorobenzene-d4	12.130	152	139149	10.000	ug/L	0.00
Standard Area 1 = 131049			Recovery = 106.18%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.095	113	96247	9.869	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.69%			
43) 1,2-Dichloroethane-d4	5.618	65	87003	9.340	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 93.40%			
60) Toluene-d8	7.575	98	289608	10.180	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.80%			
83) 4-Bromofluorobenzene	10.909	95	103715	10.933	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.33%			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.617	85	55162	7.276	ug/L	99
3) Chloromethane	1.803	50	55479	7.040	ug/L	99
4) Vinyl chloride	1.870	62	76723	8.161	ug/L	98
5) Bromomethane	2.169	94	34582	5.097	ug/L	99
6) Chloroethane	2.282	64	57472	8.483	ug/L	100
7) Trichlorofluoromethane	2.422	101	165177	7.479	ug/L	96
10) 1,1-Dichloroethene	2.894	96	81995	8.029	ug/L	97
11) Carbon disulfide	2.927	76	273375	8.893	ug/L	97
12) Freon-113	2.934	101	84798	8.460	ug/L	98
15) Methylene chloride	3.439	84	66898	7.861	ug/L	97
17) Acetone	3.472	43	13651	8.988	ug/L	92
18) trans-1,2-Dichloroethene	3.586	96	64985	8.511	ug/L	92
19) Methyl acetate	3.586	43	31343	8.501	ug/L	97
20) Methyl tert-butyl ether	3.685	73	155280	8.419	ug/L	99
23) 1,1-Dichloroethane	4.157	63	116709	8.395	ug/L	98
28) cis-1,2-Dichloroethene	4.663	96	75801	8.677	ug/L	97
30) Bromochloromethane	4.856	128	42281	8.374	ug/L	95
31) Cyclohexane	4.862	56	79332	7.002	ug/L	92
32) Chloroform	4.929	83	127737	8.199	ug/L	97
34) Carbon tetrachloride	5.062	117	103606	8.169	ug/L	86

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250625A\
 Data File : V08250625A02.d
 Acq On : 25 Jun 2025 7:29 am
 Operator : VOA108:PID
 Sample : WG2084241-4,31,10,10 (Sig #1); 8260 CCAL (Sig #2)
 Misc : WG2084241,ICAL22356 (Sig #1); WG,ICAL22356 (Sig #2)
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 25 07:52:10 2025
 Quant Method : K:\VOA108\2025\250625A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250625A\V08250625A01.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

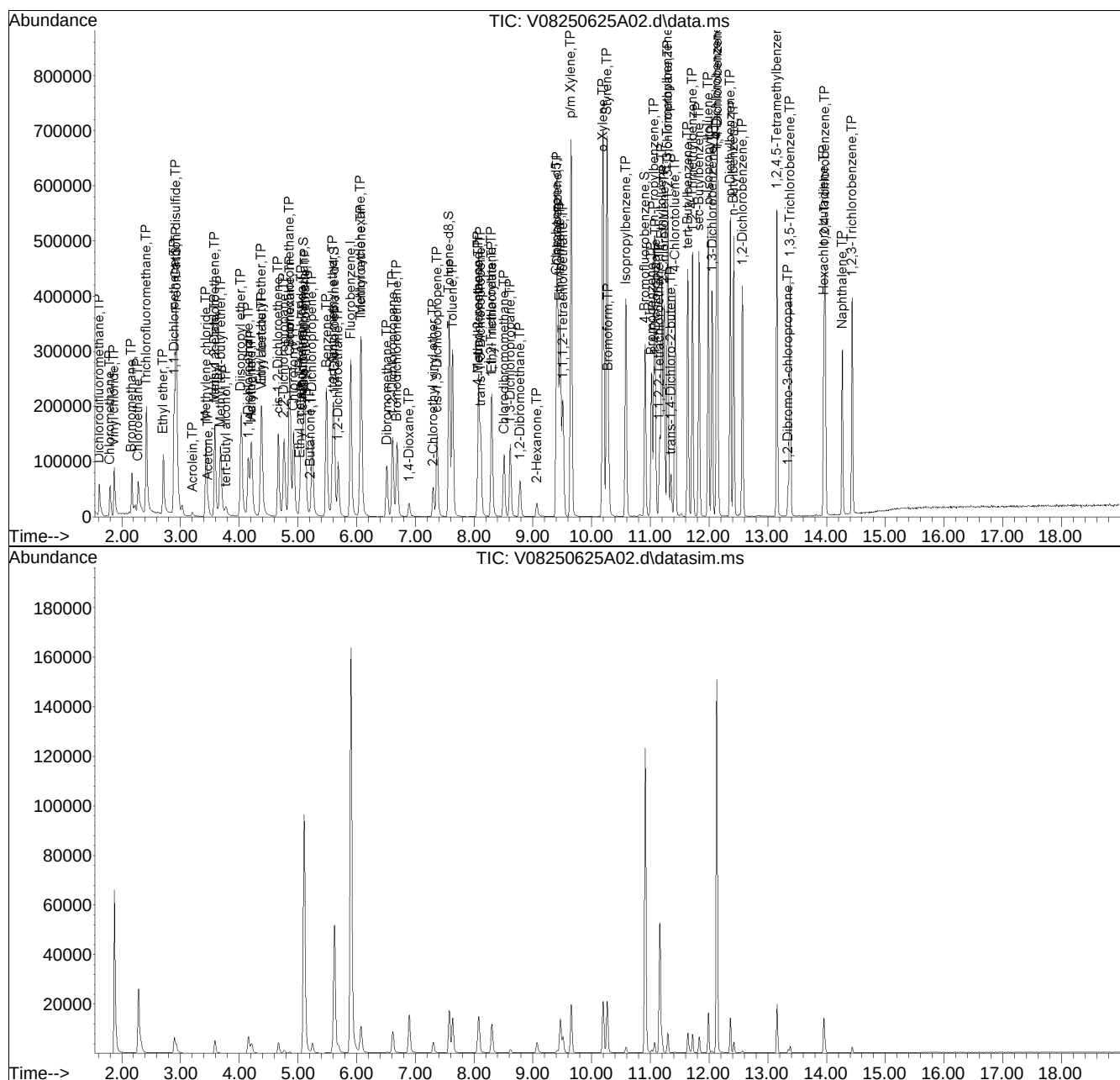
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37)	1,1,1-Trichloroethane	5.128	97	110753	8.545	ug/L	97
39)	2-Butanone	5.215	43	18474	8.131	ug/L	93
41)	Benzene	5.488	78	249260	8.096	ug/L	99
44)	1,2-Dichloroethane	5.687	62	82249	8.622	ug/L	97
47)	Methylcyclohexane	6.070	83	85203	7.387	ug/L	93
48)	Trichloroethene	6.077	95	69813	8.230	ug/L	98
51)	1,2-Dichloropropane	6.611	63	58840	8.039	ug/L	97
54)	Bromodichloromethane	6.686	83	94469	8.662	ug/L	100
58)	cis-1,3-Dichloropropene	7.370	75	98846	9.003	ug/L	98
61)	Toluene	7.630	92	155390	8.750	ug/L	100
62)	4-Methyl-2-pentanone	8.068	58	11952	8.211	ug/L	97
63)	Tetrachloroethene	8.082	166	69420	8.310	ug/L	95
65)	trans-1,3-Dichloropropene	8.109	75	84179	9.537	ug/L	98
68)	1,1,2-Trichloroethane	8.294	83	44197	8.844	ug/L	97
69)	Chlorodibromomethane	8.513	129	75863	9.186	ug/L	96
71)	1,2-Dibromoethane	8.780	107	52095	9.588	ug/L	96
72)	2-Hexanone	9.074	43	24996	8.189	ug/L	95
73)	Chlorobenzene	9.423	112	194777	8.775	ug/L	96
74)	Ethylbenzene	9.464	91	301489	8.468	ug/L	96
76)	p/m Xylene	9.649	106	251755	16.214	ug/L	97
77)	o Xylene	10.196	106	243962	15.861	ug/L	97
78)	Styrene	10.264	104	398159	14.606	ug/L	99
80)	Bromoform	10.285	173	43723	8.261	ug/L	98
82)	Isopropylbenzene	10.586	105	314576	8.552	ug/L	99
87)	1,1,2,2-Tetrachloroethane	11.156	83	65037	9.344	ug/L	96
100)	1,3-Dichlorobenzene	12.054	146	180732	8.800	ug/L	99
101)	1,4-Dichlorobenzene	12.143	146	182088	8.706	ug/L	98
104)	1,2-Dichlorobenzene	12.569	146	171086	9.069	ug/L	99
106)	1,2-Dibromo-3-chloropr...	13.344	155	11201	10.163	ug/L	97
109)	1,2,4-Trichlorobenzene	13.975	180	111120	8.973	ug/L	99
111)	1,2,3-Trichlorobenzene	14.435	180	102168	9.193	ug/L	99

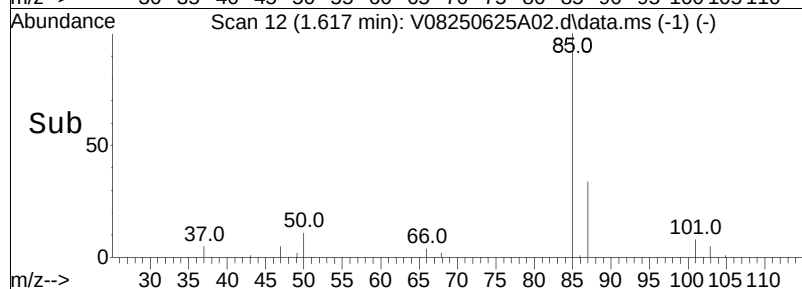
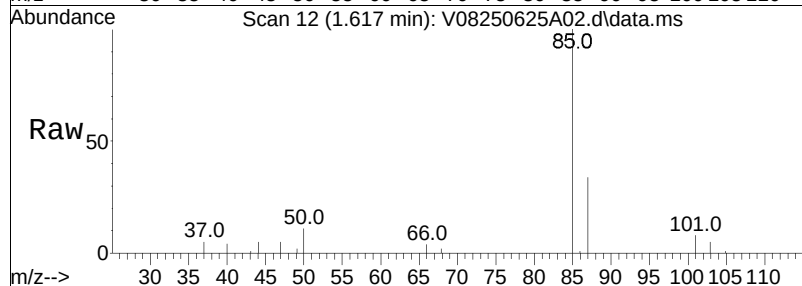
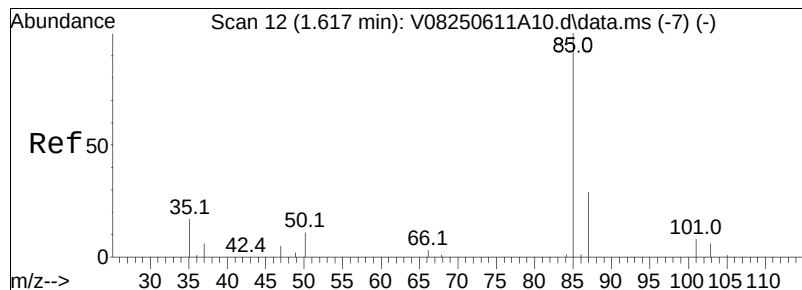
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

Quant Time: Jun 25 07:52:10 2025
Quant Method : K:\VOA108\2025\250625A\V108_250611A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 11 15:00:39 2025
Response via : Initial Calibration

Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane





#2

Dichlorodifluoromethane

Concen: 7.28 ug/L

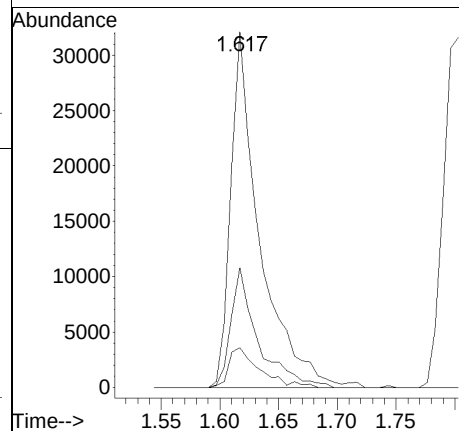
RT: 1.617 min Scan# 12

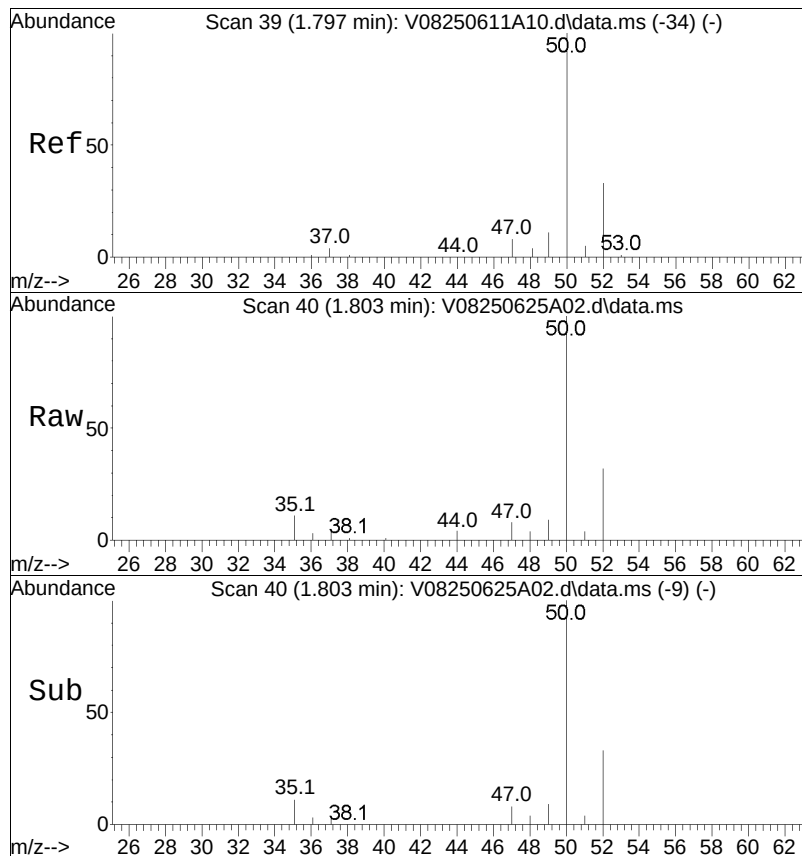
Delta R.T. -0.000 min

Lab File: V08250625A02.d

Acq: 25 Jun 2025 7:29 am

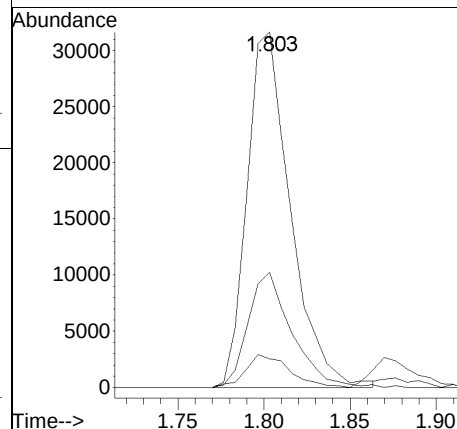
Tgt Ion:	85	Resp:	55162
Ion Ratio	Lower	Upper	
85	100		
87	31.4	20.8	43.2
50	11.9	8.4	17.4

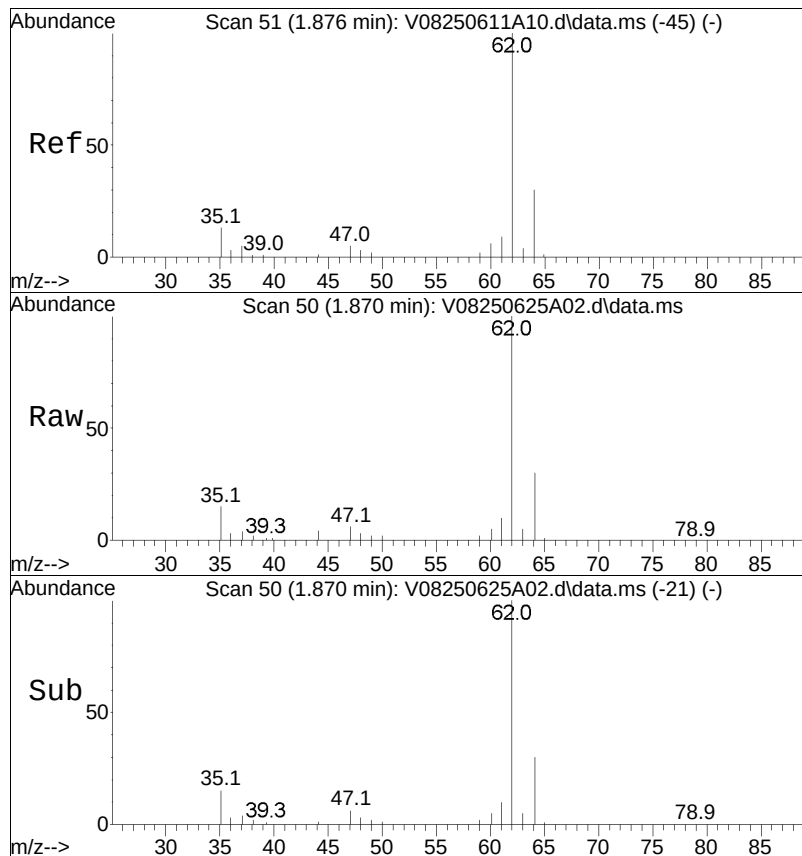




#3
 Chloromethane
 Concen: 7.04 ug/L
 RT: 1.803 min Scan# 40
 Delta R.T. 0.006 min
 Lab File: V08250625A02.d
 Acq: 25 Jun 2025 7:29 am

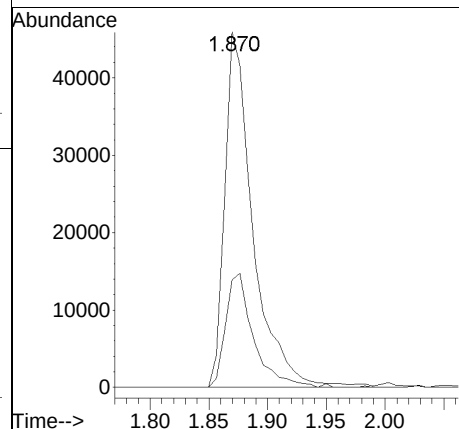
Tgt	Ion: 50	Resp:	55479
Ion	Ratio	Lower	Upper
50	100		
52	32.6	12.4	52.4
47	9.3	0.0	28.0

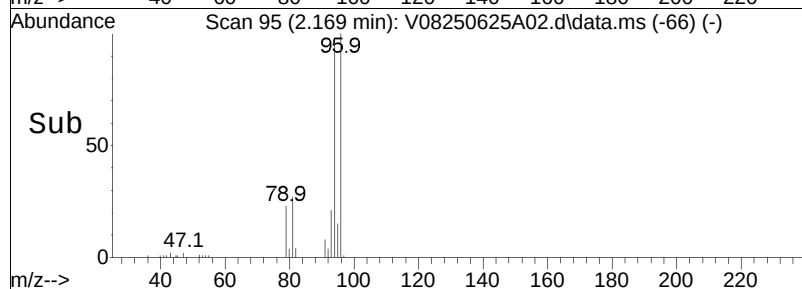
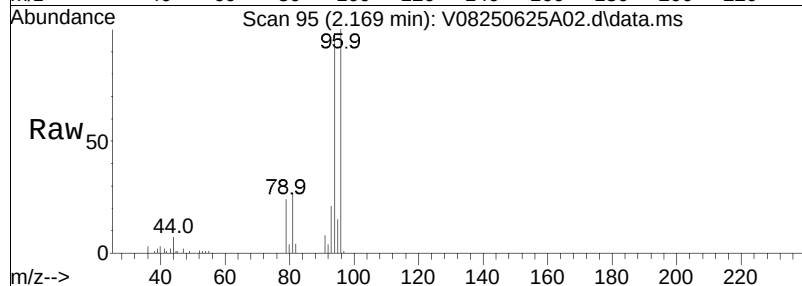
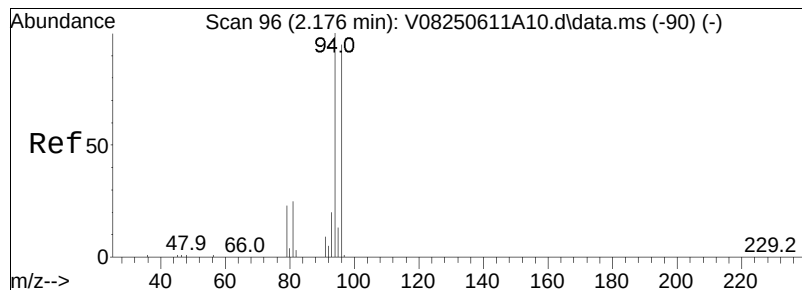




#4
 Vinyl chloride
 Concen: 8.16 ug/L
 RT: 1.870 min Scan# 50
 Delta R.T. -0.006 min
 Lab File: V08250625A02.d
 Acq: 25 Jun 2025 7:29 am

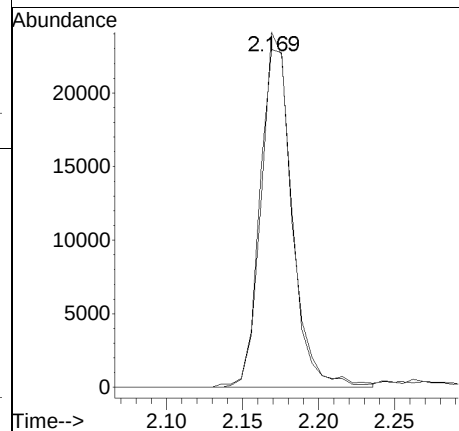
Tgt Ion	Ratio	Lower	Upper
62	100		
64	31.6	10.5	50.5

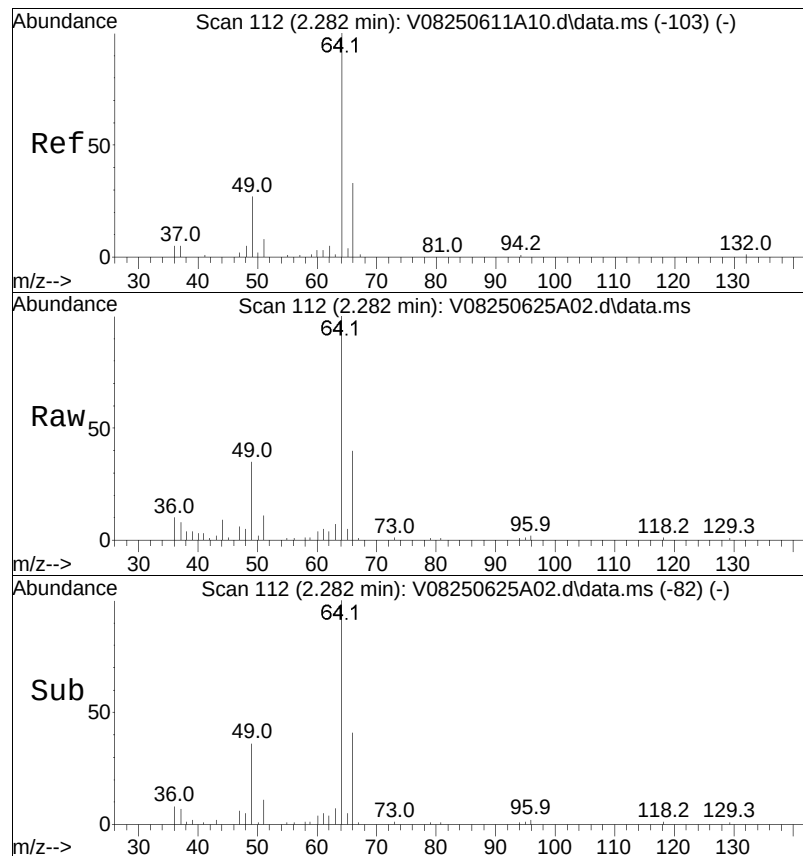




#5
 Bromomethane
 Concen: 5.10 ug/L
 RT: 2.169 min Scan# 95
 Delta R.T. -0.007 min
 Lab File: V08250625A02.d
 Acq: 25 Jun 2025 7:29 am

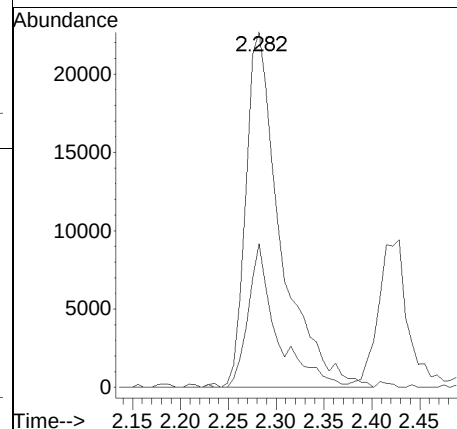
Tgt Ion	Ratio	Lower	Upper
94	100		
96	96.9	77.7	117.7

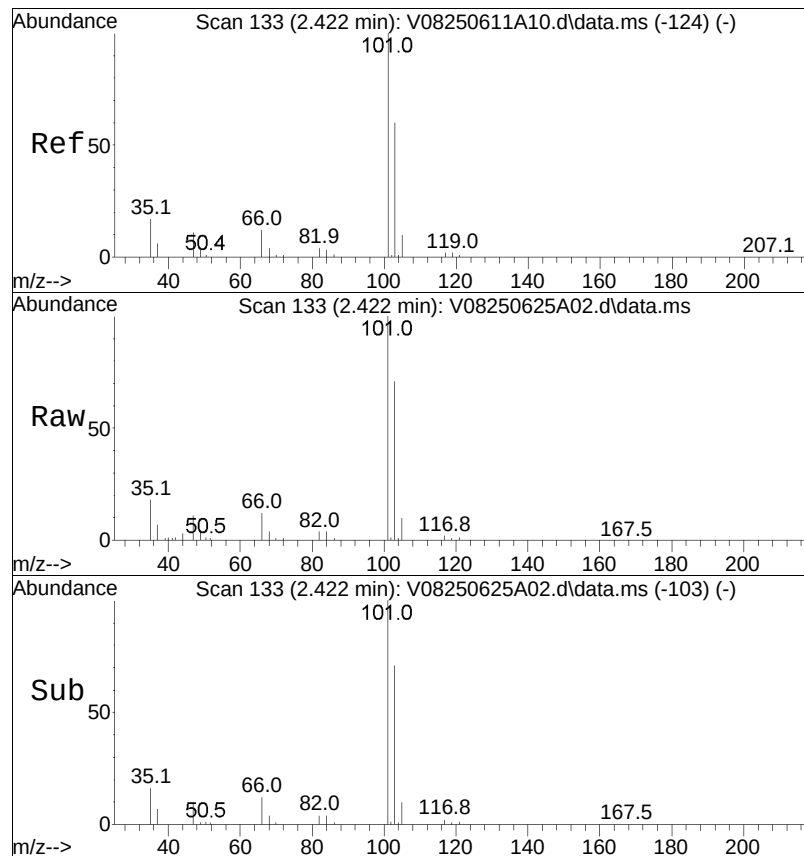




#6
 Chloroethane
 Concen: 8.48 ug/L
 RT: 2.282 min Scan# 112
 Delta R.T. 0.000 min
 Lab File: V08250625A02.d
 Acq: 25 Jun 2025 7:29 am

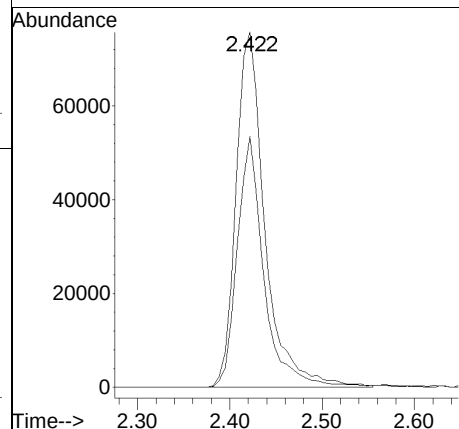
Tgt Ion	Ratio	Lower	Upper
64	100		
66	33.5	13.7	53.7

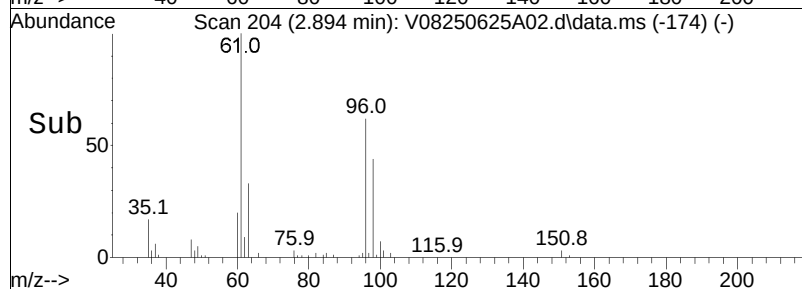
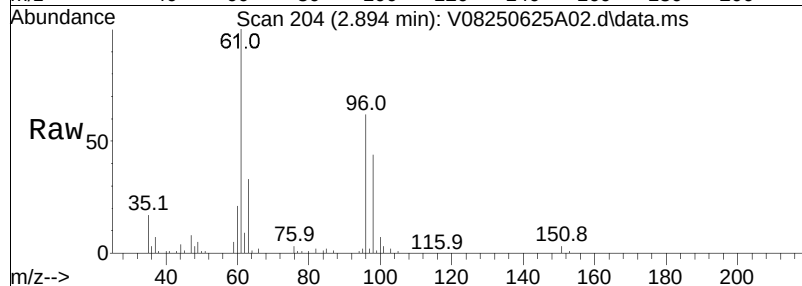
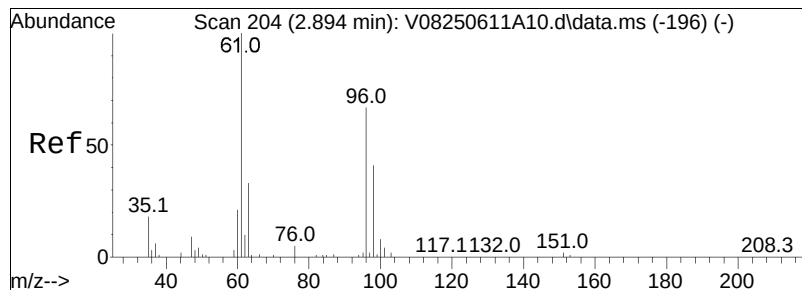




#7
 Trichlorofluoromethane
 Concen: 7.48 ug/L
 RT: 2.422 min Scan# 133
 Delta R.T. -0.000 min
 Lab File: V08250625A02.d
 Acq: 25 Jun 2025 7:29 am

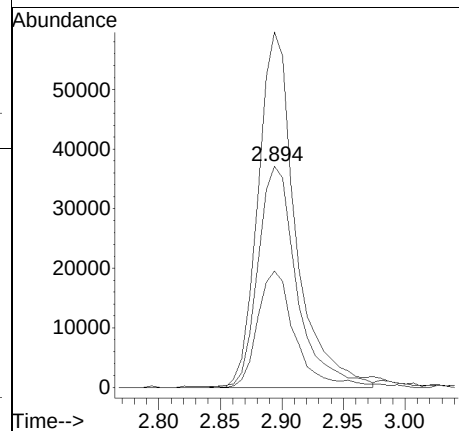
Tgt Ion	Ratio	Lower	Upper
101	100		
103	65.2	49.8	74.6

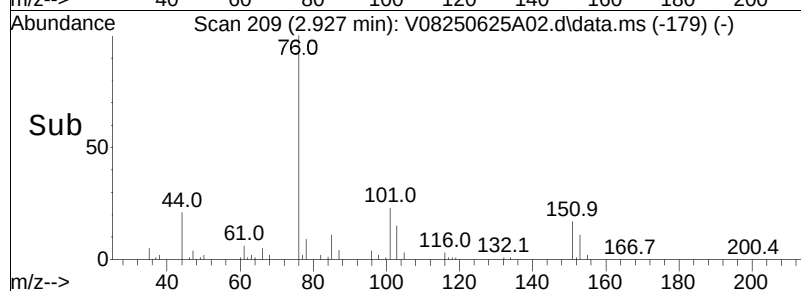
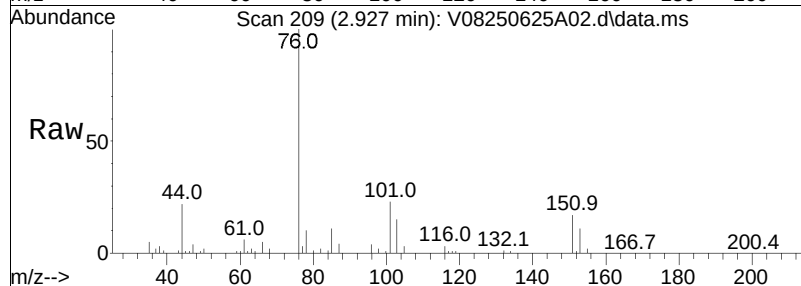
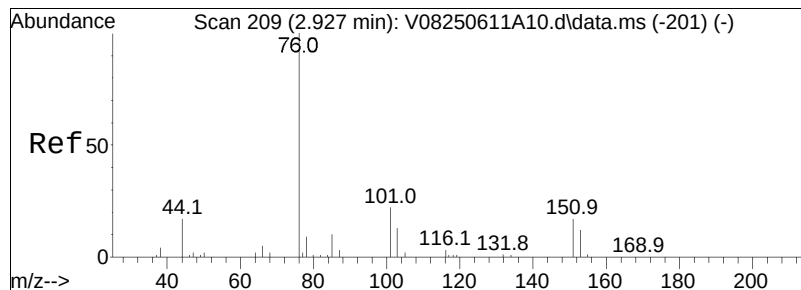




#10
 1,1-Dichloroethene
 Concen: 8.03 ug/L
 RT: 2.894 min Scan# 204
 Delta R.T. -0.000 min
 Lab File: V08250625A02.d
 Acq: 25 Jun 2025 7:29 am

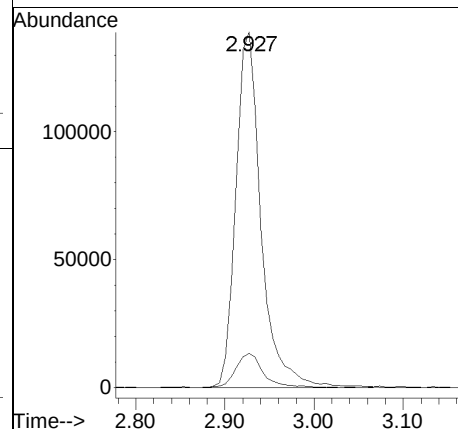
Tgt	Ion: 96	Resp:	81995
Ion	Ratio	Lower	Upper
96	100		
61	157.1	129.4	194.2
63	51.0	39.0	58.6

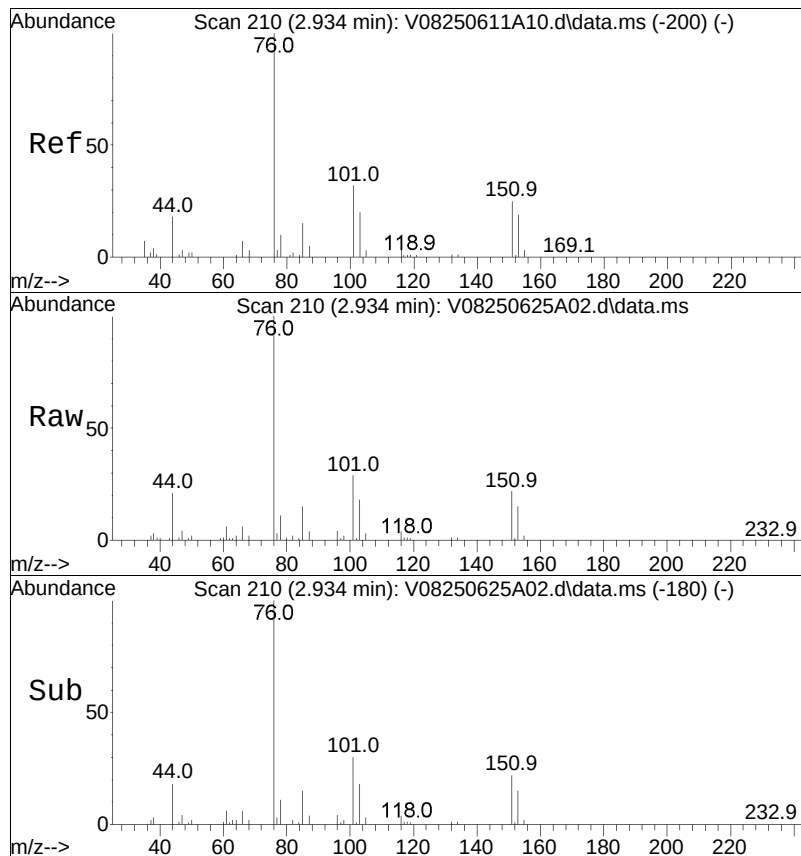




#11
 Carbon disulfide
 Concen: 8.89 ug/L
 RT: 2.927 min Scan# 209
 Delta R.T. 0.000 min
 Lab File: V08250625A02.d
 Acq: 25 Jun 2025 7:29 am

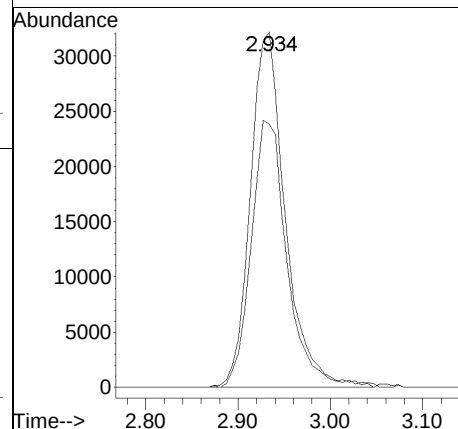
Tgt Ion	Ratio	Lower	Upper
76	100		
78	10.3	6.0	12.6

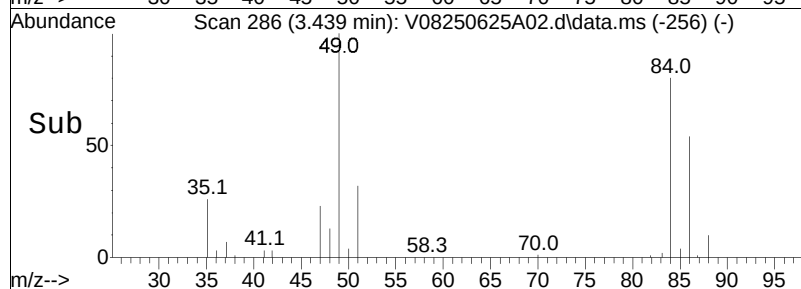
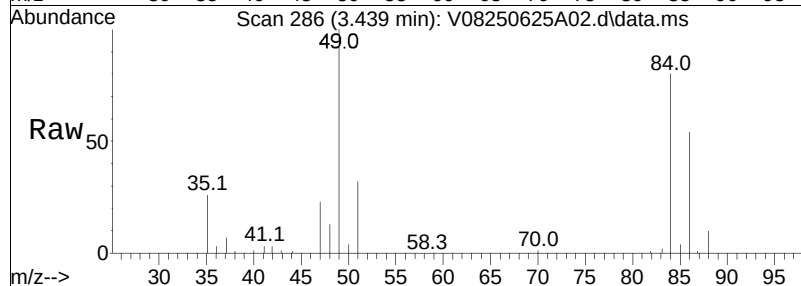
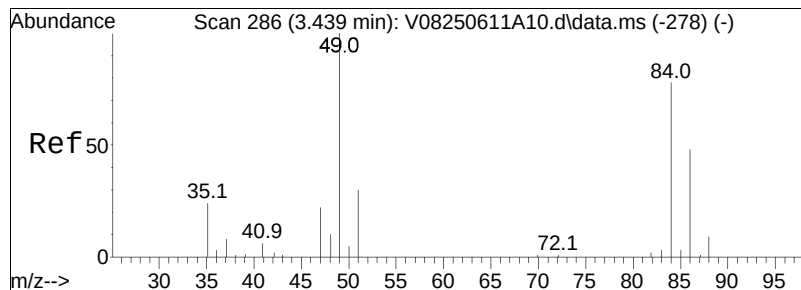




#12
 Freon-113
 Concen: 8.46 ug/L
 RT: 2.934 min Scan# 210
 Delta R.T. -0.000 min
 Lab File: V08250625A02.d
 Acq: 25 Jun 2025 7:29 am

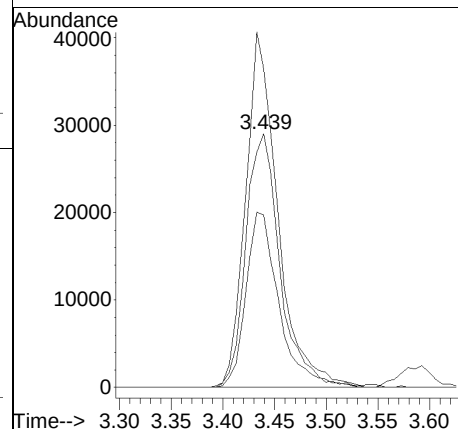
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	84798		
151	77.3	63.5	95.3	

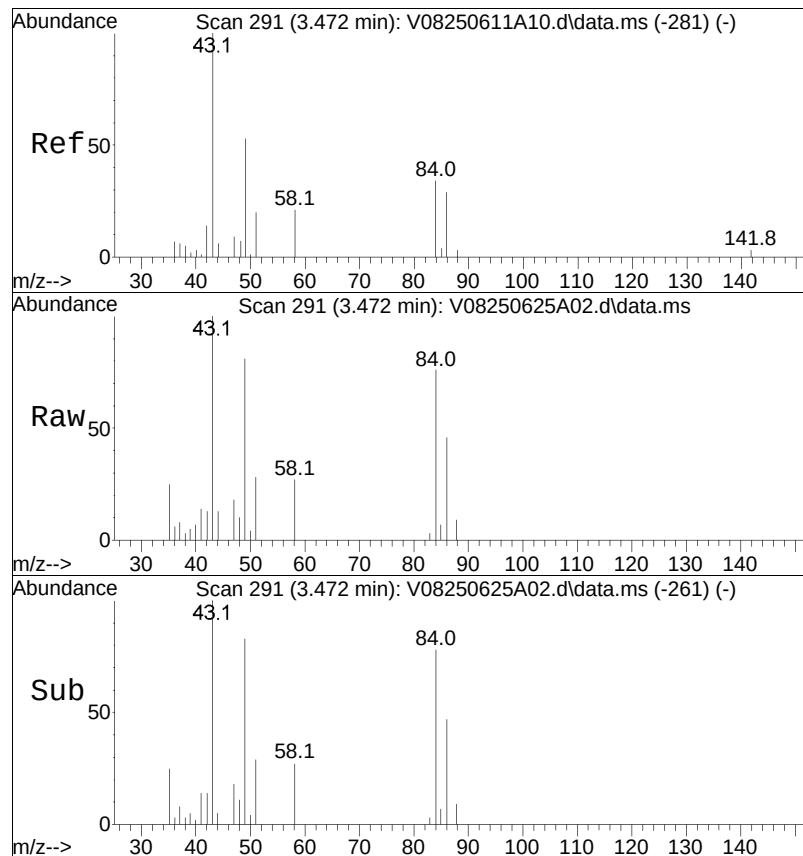




#15
Methylene chloride
Concen: 7.86 ug/L
RT: 3.439 min Scan# 286
Delta R.T. 0.000 min
Lab File: V08250625A02.d
Acq: 25 Jun 2025 7:29 am

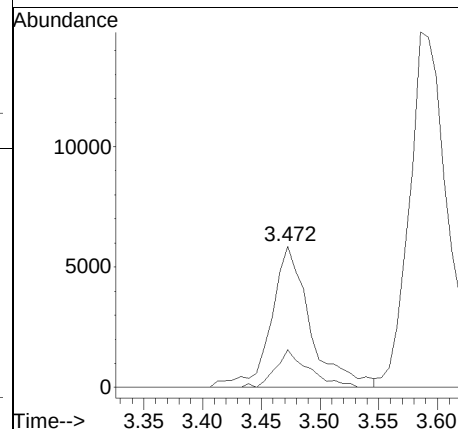
Tgt Ion:	84	Resp:	66898
Ion Ratio	Lower	Upper	
84	100		
86	66.9	41.1	85.5
49	132.1	87.2	181.0

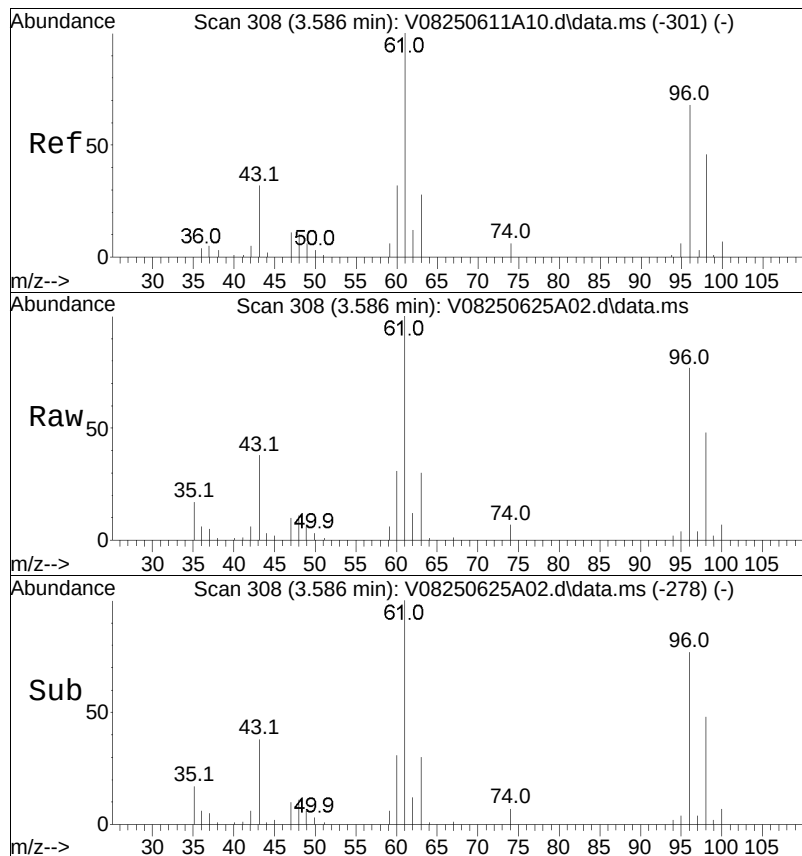




#17
 Acetone
 Concen: 8.99 ug/L
 RT: 3.472 min Scan# 291
 Delta R.T. 0.000 min
 Lab File: V08250625A02.d
 Acq: 25 Jun 2025 7:29 am

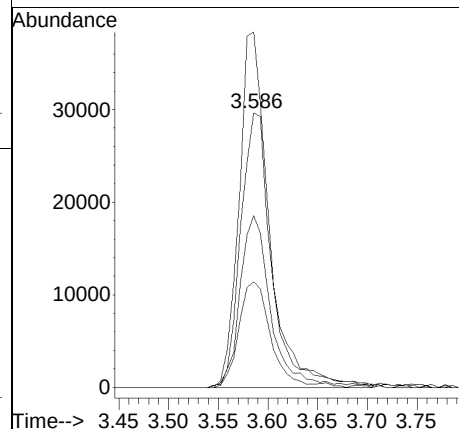
Tgt	Ion	Ratio	Lower	Upper
43	100			
58	22.8	21.6	32.4	

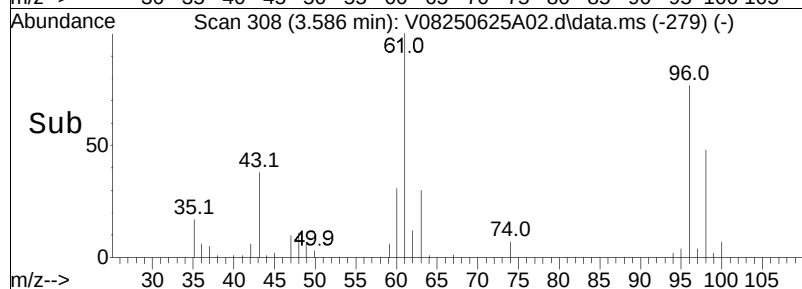
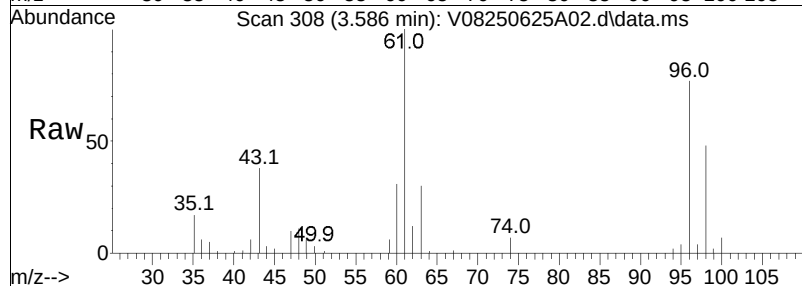
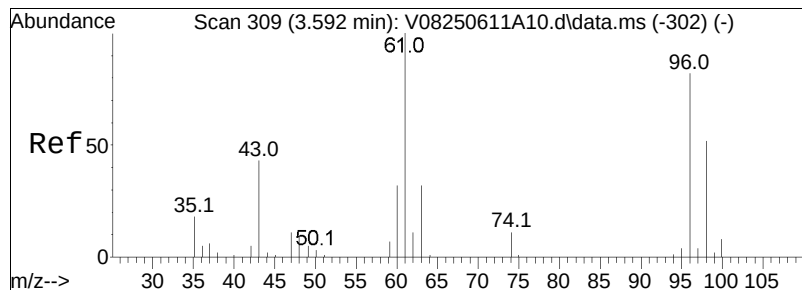




#18
 trans-1,2-Dichloroethene
 Concen: 8.51 ug/L
 RT: 3.586 min Scan# 308
 Delta R.T. -0.000 min
 Lab File: V08250625A02.d
 Acq: 25 Jun 2025 7:29 am

Tgt Ion:	96	Resp:	64985
Ion Ratio	Lower	Upper	
96	100		
61	125.3	90.2	187.4
98	61.6	42.2	87.6
63	38.7	27.6	57.4





#19

Methyl acetate

Concen: 8.50 ug/L

RT: 3.586 min Scan# 308

Delta R.T. -0.006 min

Lab File: V08250625A02.d

Acq: 25 Jun 2025 7:29 am

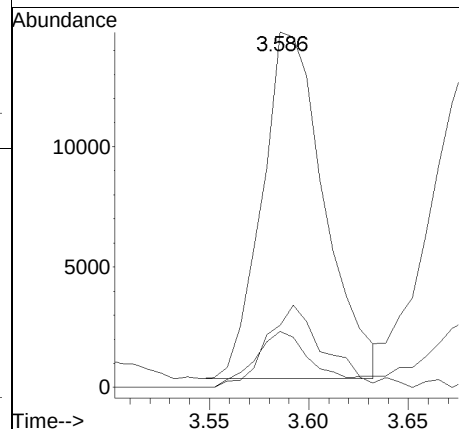
Tgt Ion: 43 Resp: 31343

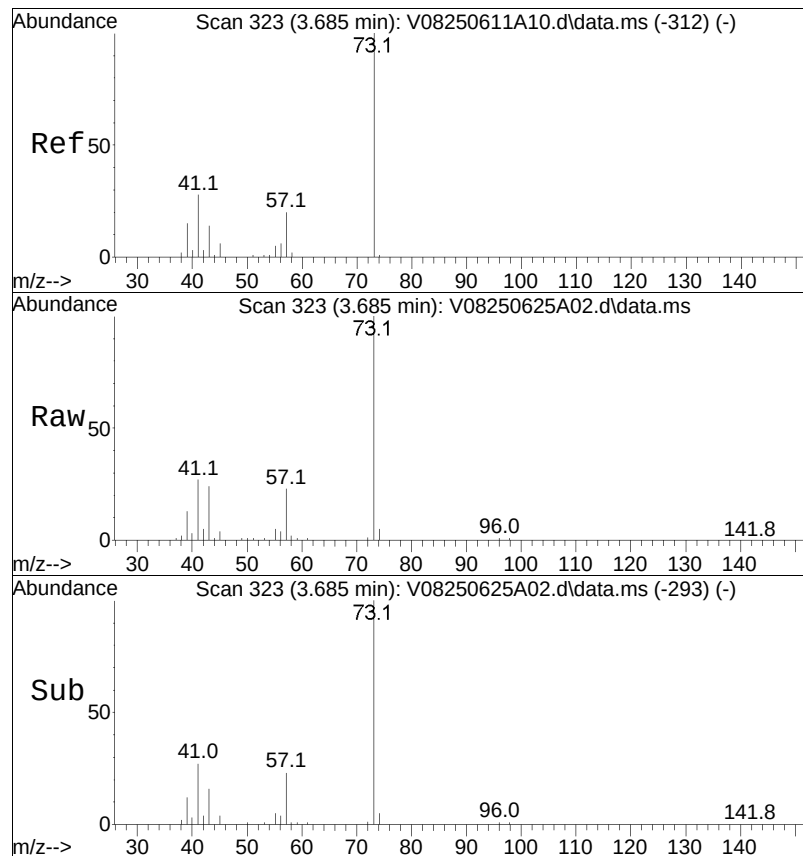
Ion Ratio Lower Upper

43 100

74 22.0 17.8 26.8

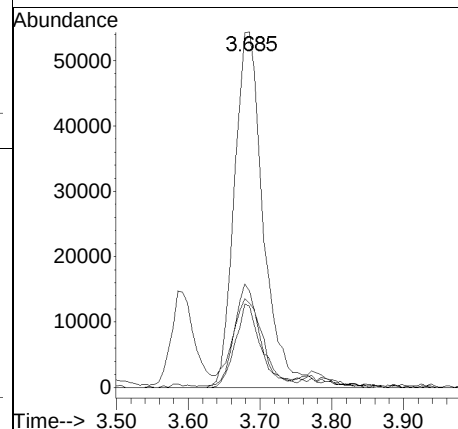
59 16.2 14.7 22.1

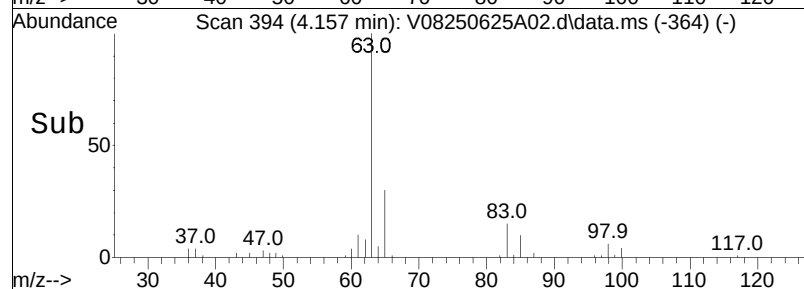
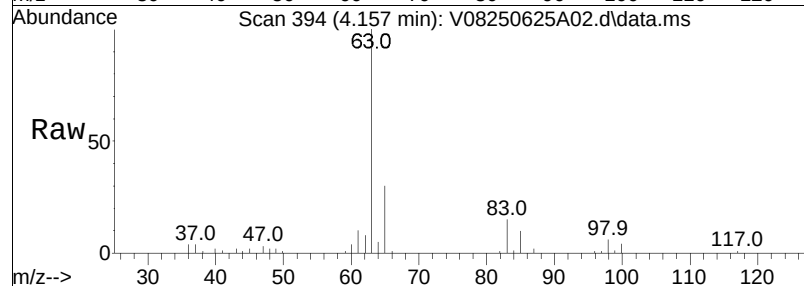
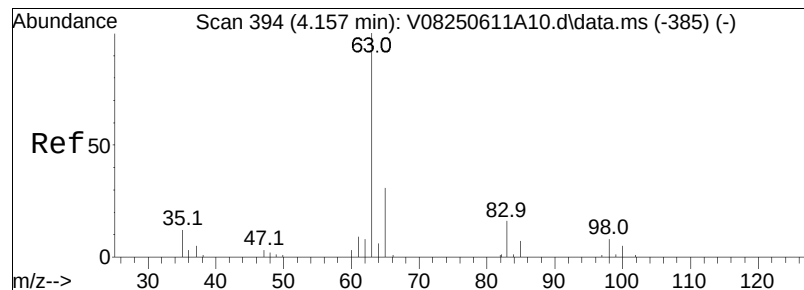




#20
Methyl tert-butyl ether
Concen: 8.42 ug/L
RT: 3.685 min Scan# 323
Delta R.T. 0.000 min
Lab File: V08250625A02.d
Acq: 25 Jun 2025 7:29 am

Tgt Ion:	73	Resp:	155280
Ion	Ratio	Lower	Upper
73	100		
57	20.8	13.6	28.2
43	23.9	15.7	32.5
41	26.7	18.0	37.4





#23

1,1-Dichloroethane

Concen: 8.40 ug/L

RT: 4.157 min Scan# 394

Delta R.T. 0.000 min

Lab File: V08250625A02.d

Acq: 25 Jun 2025 7:29 am

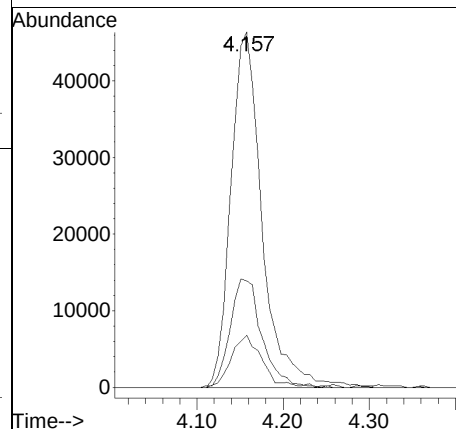
Tgt Ion: 63 Resp: 116709

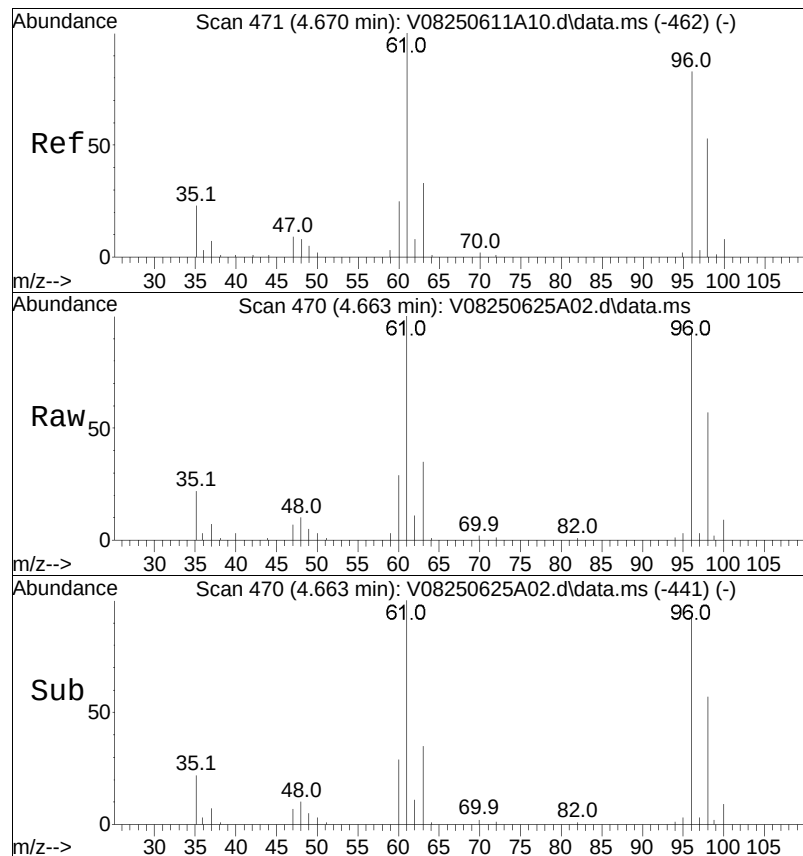
Ion Ratio Lower Upper

63 100

65 31.0 12.4 52.4

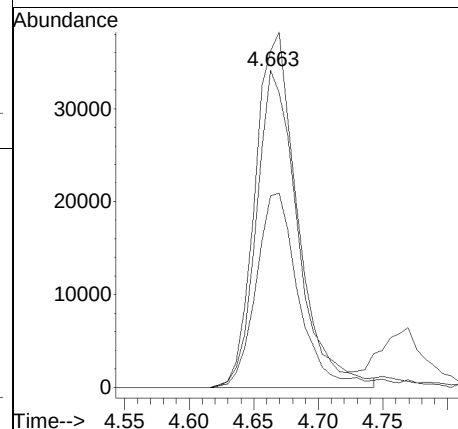
83 14.5 0.0 33.8

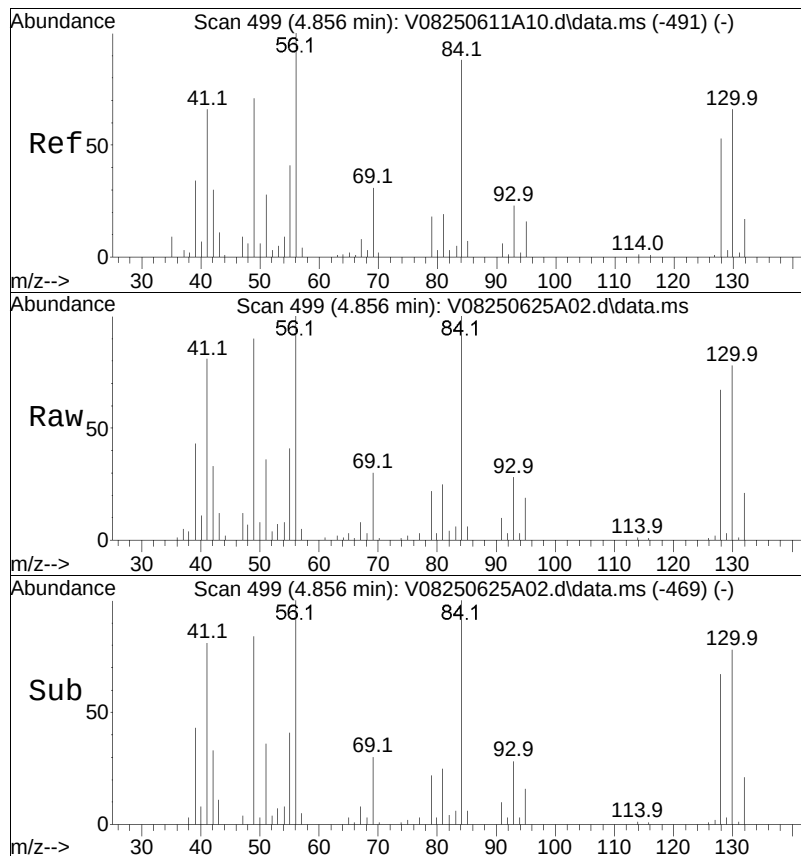




#28
 cis-1,2-Dichloroethene
 Concen: 8.68 ug/L
 RT: 4.663 min Scan# 470
 Delta R.T. -0.007 min
 Lab File: V08250625A02.d
 Acq: 25 Jun 2025 7:29 am

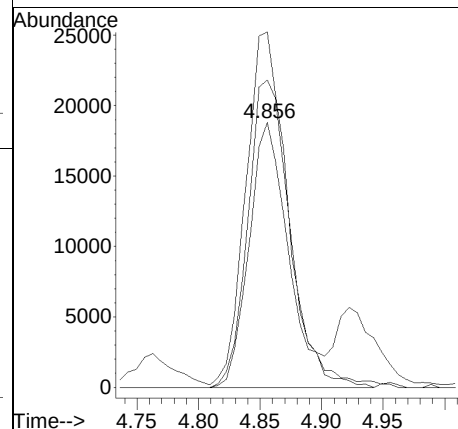
Tgt Ion:	96	Resp:	75801
Ion Ratio	Lower	Upper	
96	100		
61	113.4	93.7	140.5
98	64.0	50.3	75.5

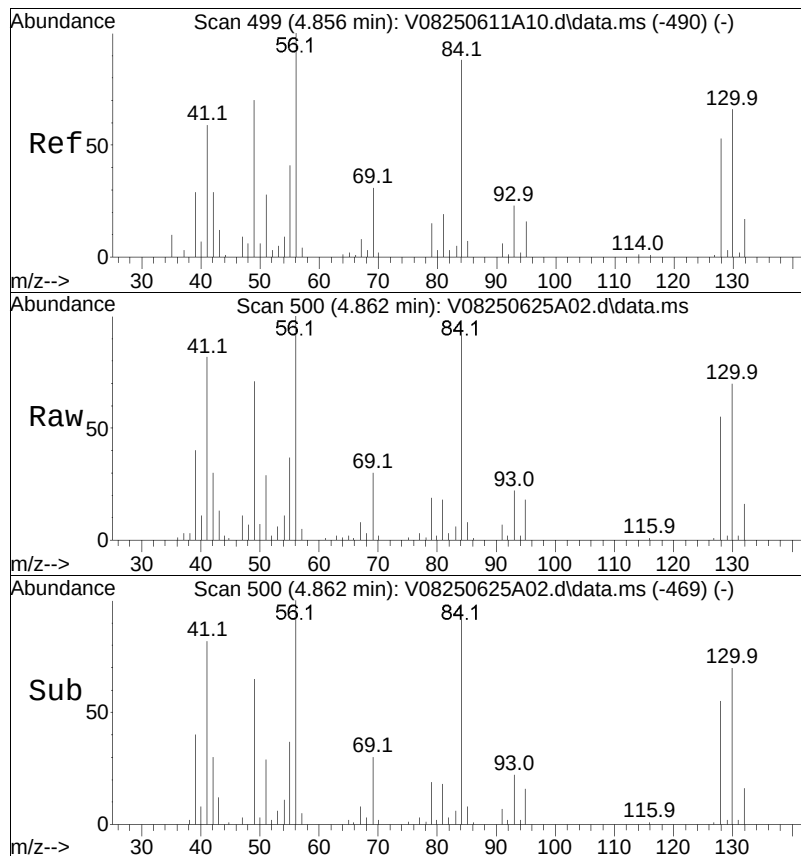




#30
 Bromochloromethane
 Concen: 8.37 ug/L
 RT: 4.856 min Scan# 499
 Delta R.T. -0.000 min
 Lab File: V08250625A02.d
 Acq: 25 Jun 2025 7:29 am

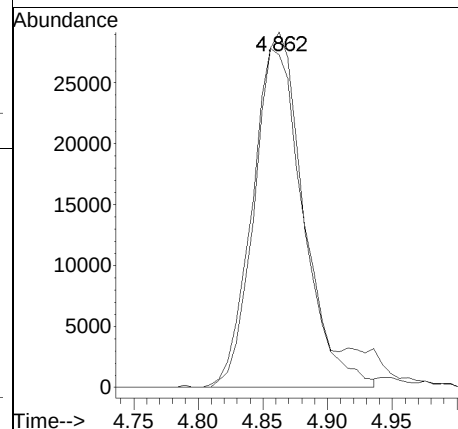
Tgt Ion	Ratio	Lower	Upper
128	100		
49	137.8	119.6	179.4
130	125.3	100.7	151.1

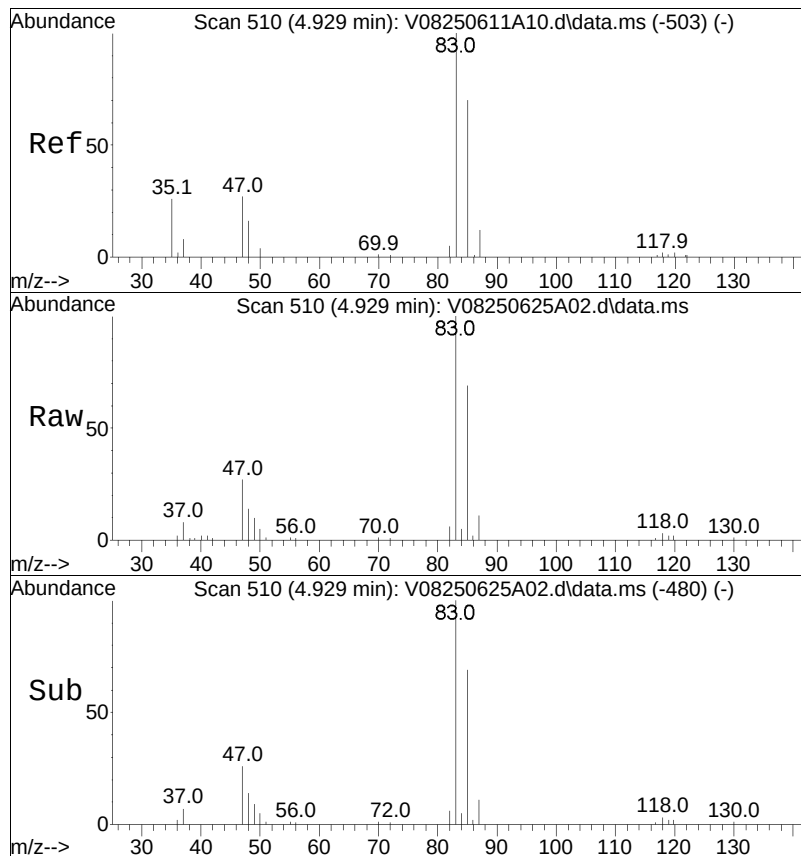




#31
 Cyclohexane
 Concen: 7.00 ug/L
 RT: 4.862 min Scan# 500
 Delta R.T. 0.006 min
 Lab File: V08250625A02.d
 Acq: 25 Jun 2025 7:29 am

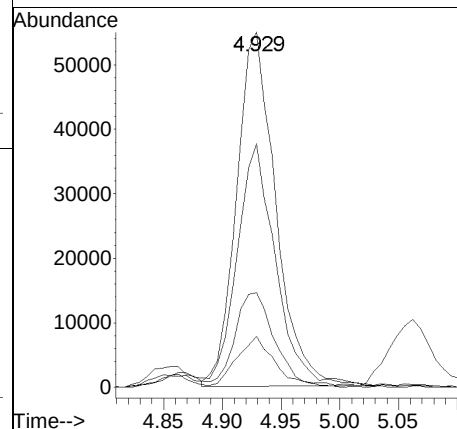
Tgt	Ion	Ratio	Lower	Upper
56	100			
84	92.1	55.3	114.8	

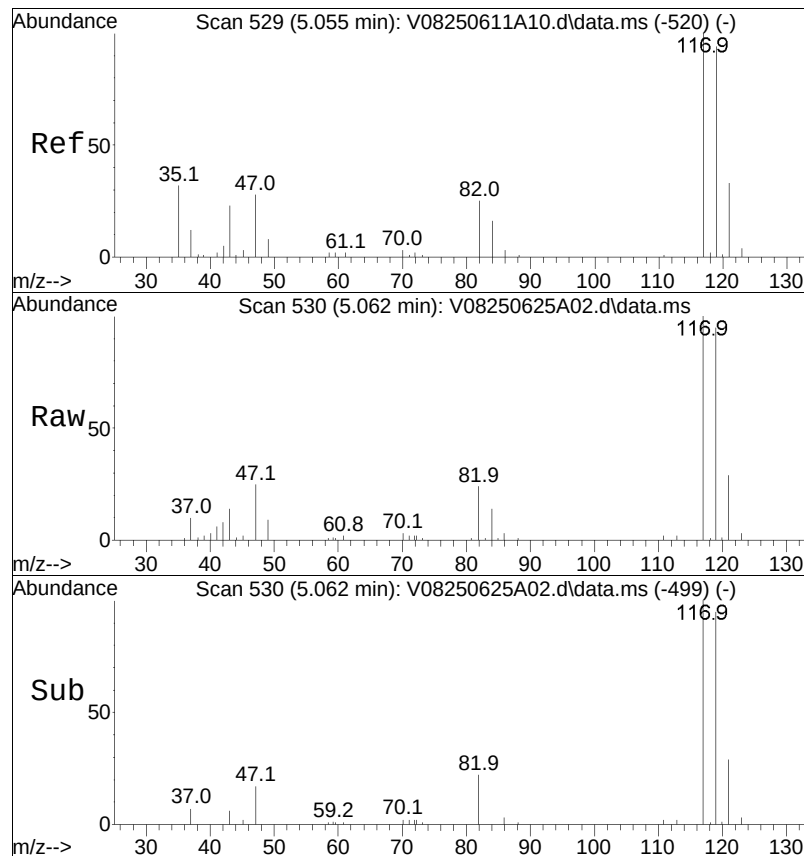




#32
 Chloroform
 Concen: 8.20 ug/L
 RT: 4.929 min Scan# 510
 Delta R.T. -0.000 min
 Lab File: V08250625A02.d
 Acq: 25 Jun 2025 7:29 am

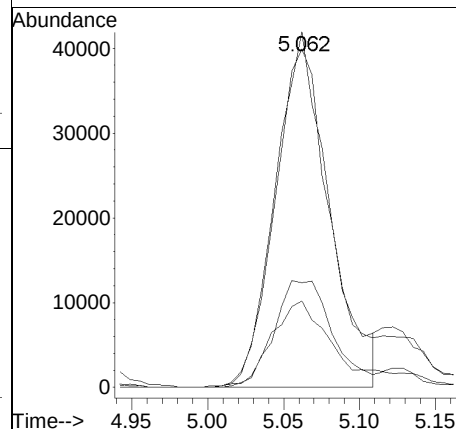
Tgt Ion:	83	Resp:	127737
Ion Ratio	Lower	Upper	
83	100		
85	67.1	42.1	87.3
47	24.9	17.7	36.7
48	14.2	9.1	18.9

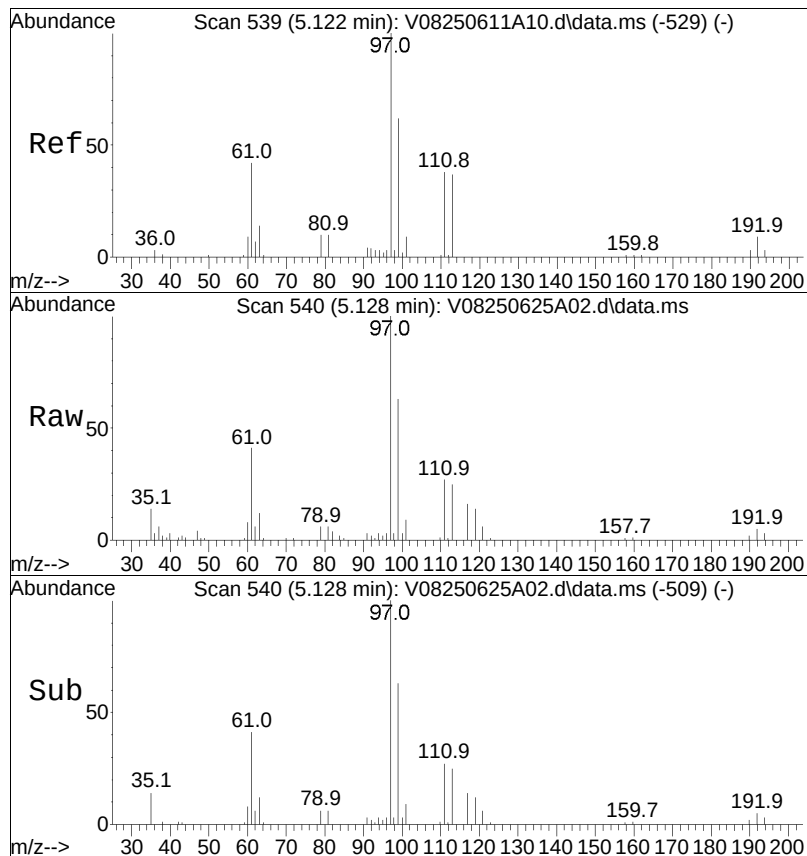




#34
 Carbon tetrachloride
 Concen: 8.17 ug/L
 RT: 5.062 min Scan# 530
 Delta R.T. 0.007 min
 Lab File: V08250625A02.d
 Acq: 25 Jun 2025 7:29 am

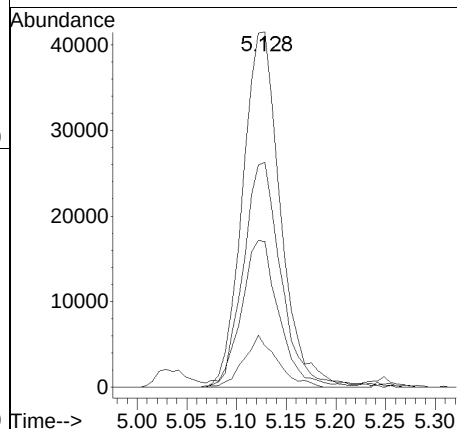
Tgt Ion:	117	Resp:	103606
Ion Ratio	Lower	Upper	
117	100		
119	111.9	61.4	127.6
121	33.5	20.5	42.7
82	30.1	16.3	33.8

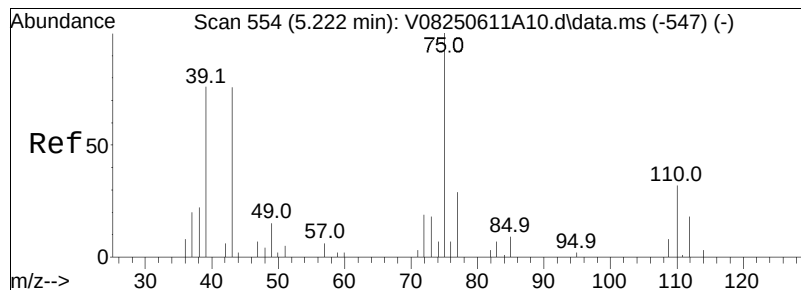




#37
 1,1,1-Trichloroethane
 Concen: 8.54 ug/L
 RT: 5.128 min Scan# 540
 Delta R.T. 0.006 min
 Lab File: V08250625A02.d
 Acq: 25 Jun 2025 7:29 am

Tgt Ion: 97	Resp: 110753
Ion Ratio	Lower Upper
97 100	
99 62.7	40.2 83.4
61 41.2	28.6 59.4
63 13.1	9.2 19.2





#39

2-Butanone

Concen: 8.13 ug/L

RT: 5.215 min Scan# 553

Delta R.T. -0.007 min

Lab File: V08250625A02.d

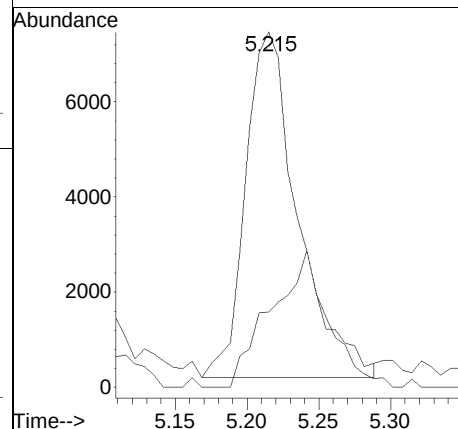
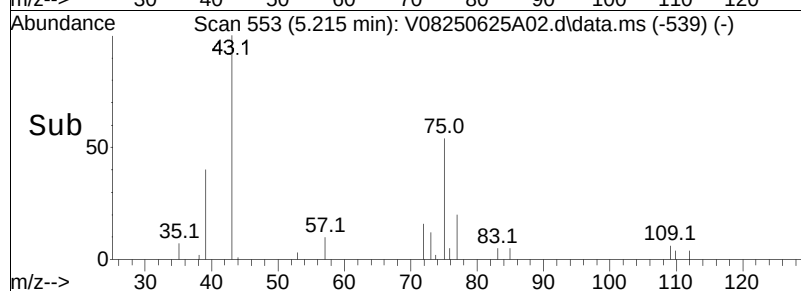
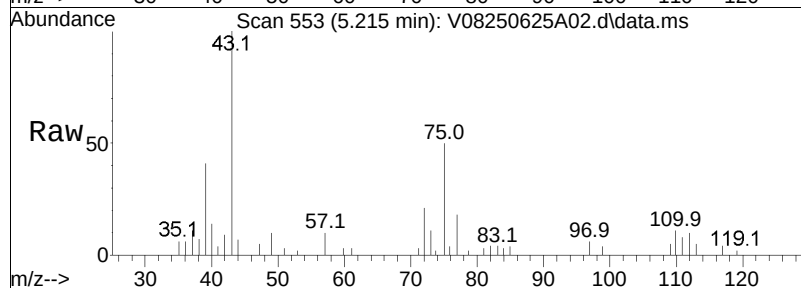
Acq: 25 Jun 2025 7:29 am

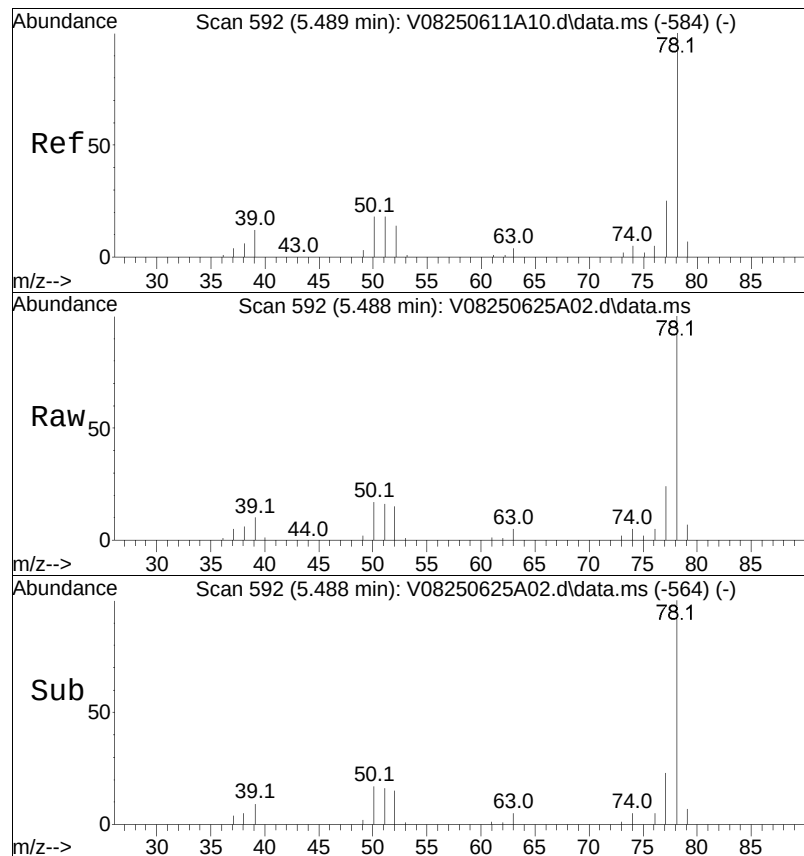
Tgt Ion: 43 Resp: 18474

Ion Ratio Lower Upper

43 100

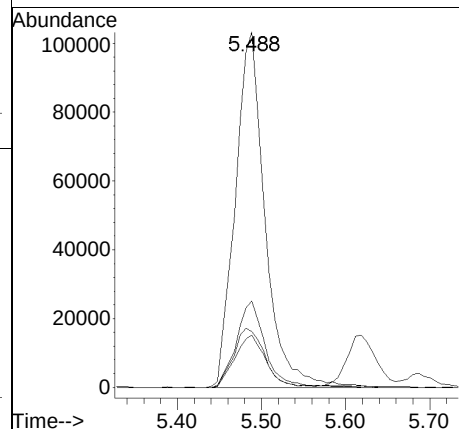
72 43.0 38.2 57.4

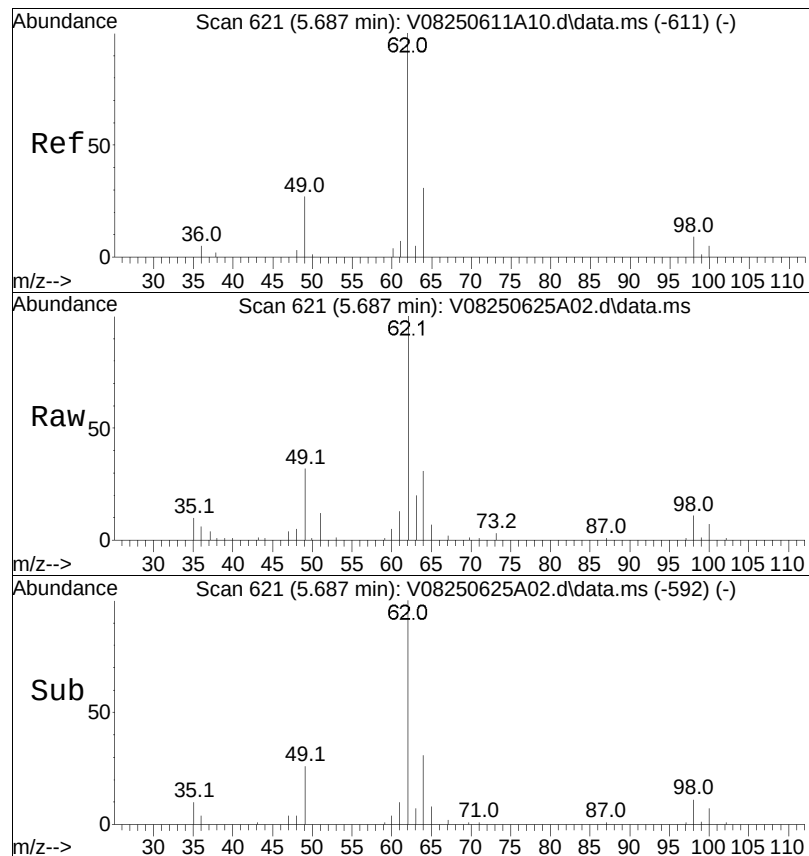




#41
Benzene
Concen: 8.10 ug/L
RT: 5.488 min Scan# 592
Delta R.T. -0.001 min
Lab File: V08250625A02.d
Acq: 25 Jun 2025 7:29 am

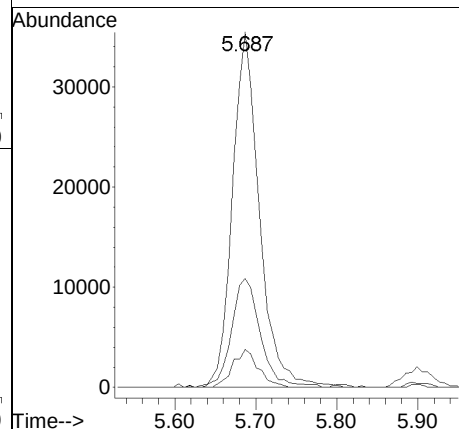
Tgt Ion:	78	Resp:	249260
Ion Ratio	Lower	Upper	
78	100		
77	24.1	15.7	32.7
51	18.2	12.4	25.7
52	15.9	10.6	22.0

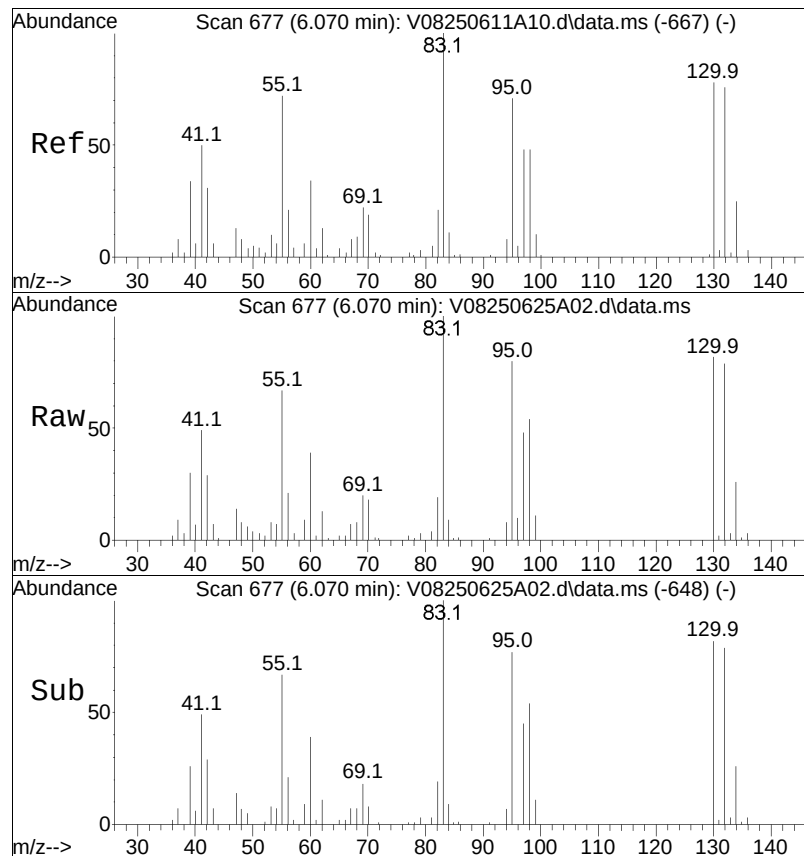




#44
 1,2-Dichloroethane
 Concen: 8.62 ug/L
 RT: 5.687 min Scan# 621
 Delta R.T. -0.000 min
 Lab File: V08250625A02.d
 Acq: 25 Jun 2025 7:29 am

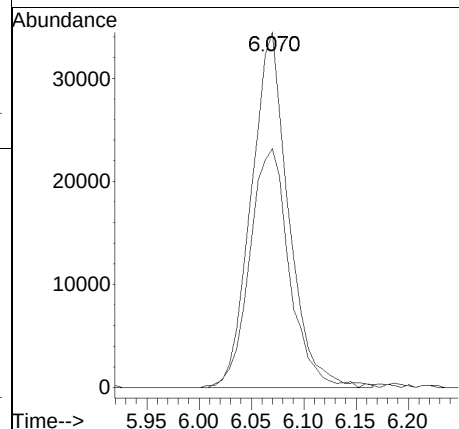
Tgt	Ion	Ratio	Lower	Upper
62	100			
64	33.0	11.3	51.3	
98	10.2	0.0	29.3	

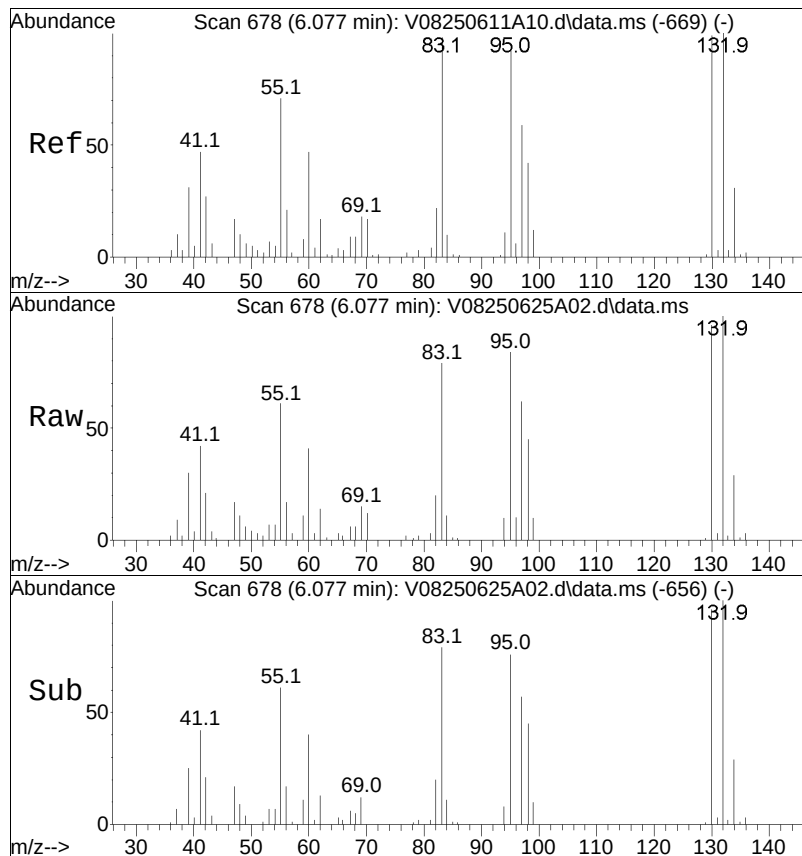




#47
Methyl cyclohexane
Concen: 7.39 ug/L
RT: 6.070 min Scan# 677
Delta R.T. -0.000 min
Lab File: V08250625A02.d
Acq: 25 Jun 2025 7:29 am

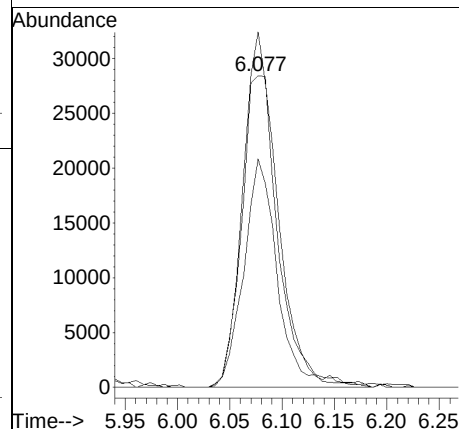
Tgt	Ion	Resp	Lower	Upper
83	100			
55	71.8	62.4	93.6	

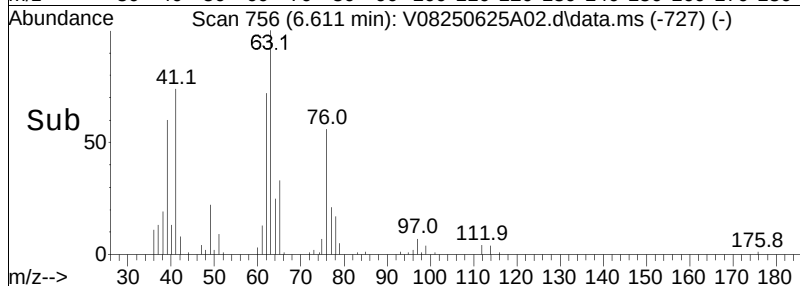
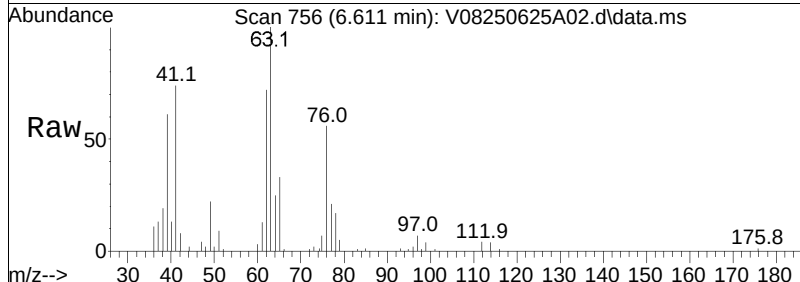
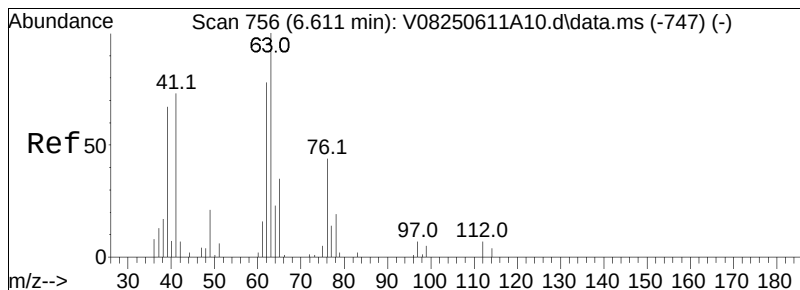




#48
 Trichloroethene
 Concen: 8.23 ug/L
 RT: 6.077 min Scan# 678
 Delta R.T. -0.000 min
 Lab File: V08250625A02.d
 Acq: 25 Jun 2025 7:29 am

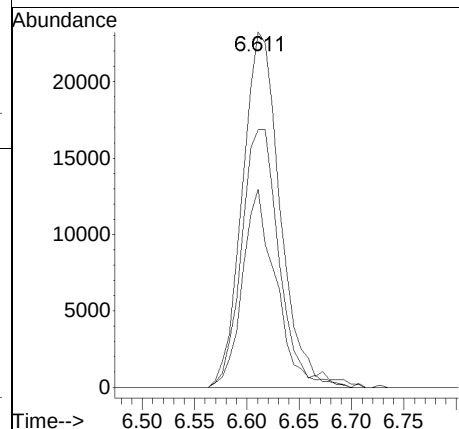
Tgt Ion	Ratio	Resp	Lower	Upper
95	100	69813		
97	66.8		54.7	82.1
130	108.6		84.7	127.1

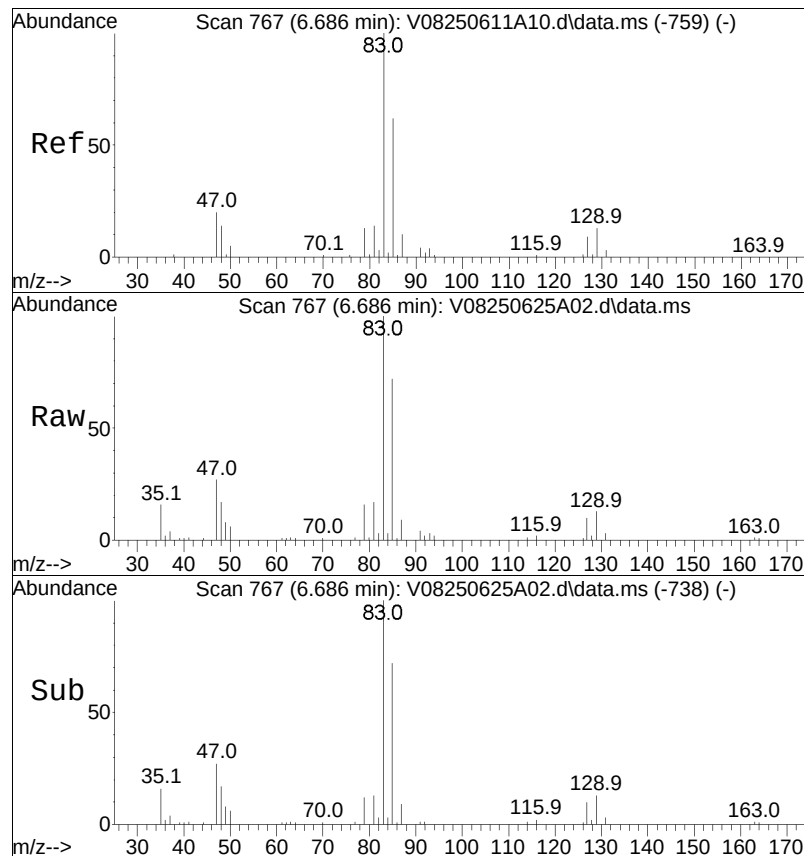




#51
 1,2-Dichloropropane
 Concen: 8.04 ug/L
 RT: 6.611 min Scan# 756
 Delta R.T. -0.000 min
 Lab File: V08250625A02.d
 Acq: 25 Jun 2025 7:29 am

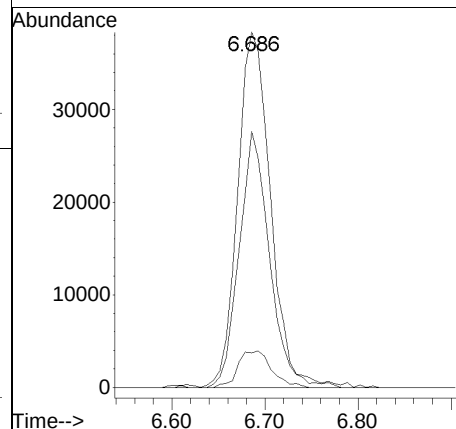
Tgt Ion	Ratio	Lower	Upper
63	100		
62	71.6	58.2	87.4
76	49.3	35.9	53.9

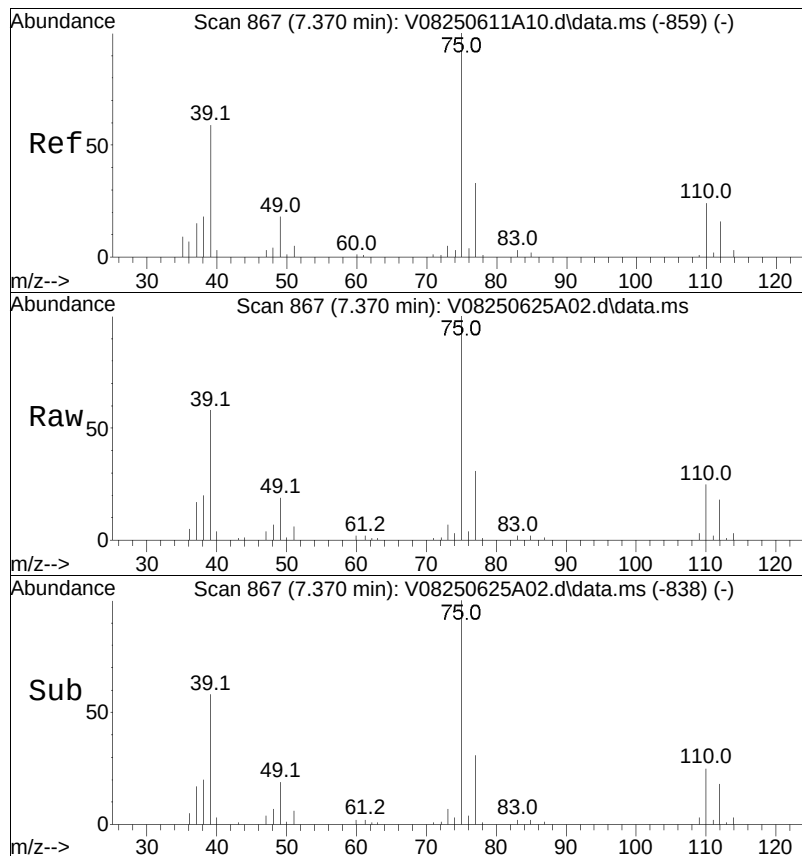




#54
 Bromodichloromethane
 Concen: 8.66 ug/L
 RT: 6.686 min Scan# 767
 Delta R.T. -0.000 min
 Lab File: V08250625A02.d
 Acq: 25 Jun 2025 7:29 am

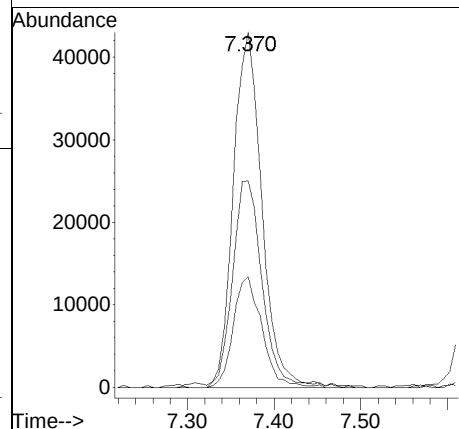
Tgt Ion:	83	Resp:	94469
Ion Ratio	Lower	Upper	
83	100		
85	66.3	53.0	79.6
127	10.5	7.8	11.6

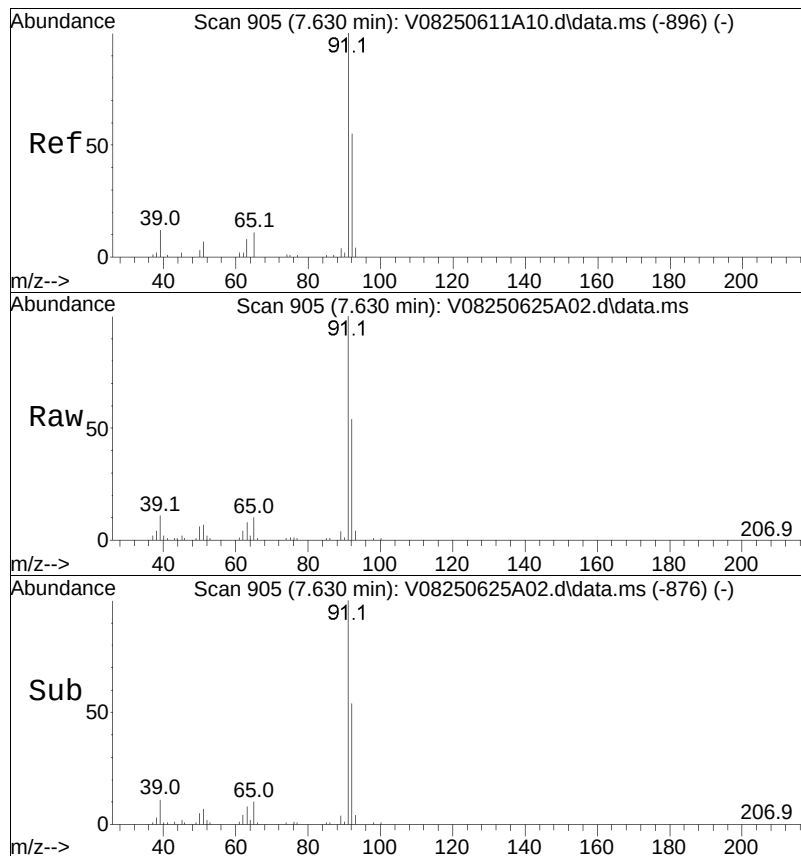




#58
 cis-1,3-Dichloropropene
 Concen: 9.00 ug/L
 RT: 7.370 min Scan# 867
 Delta R.T. 0.000 min
 Lab File: V08250625A02.d
 Acq: 25 Jun 2025 7:29 am

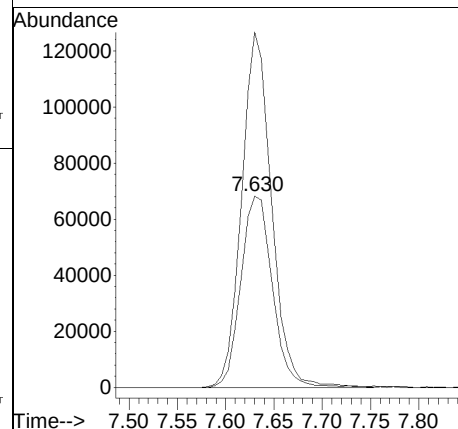
Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.2	25.5	38.3
39	60.4	46.9	70.3

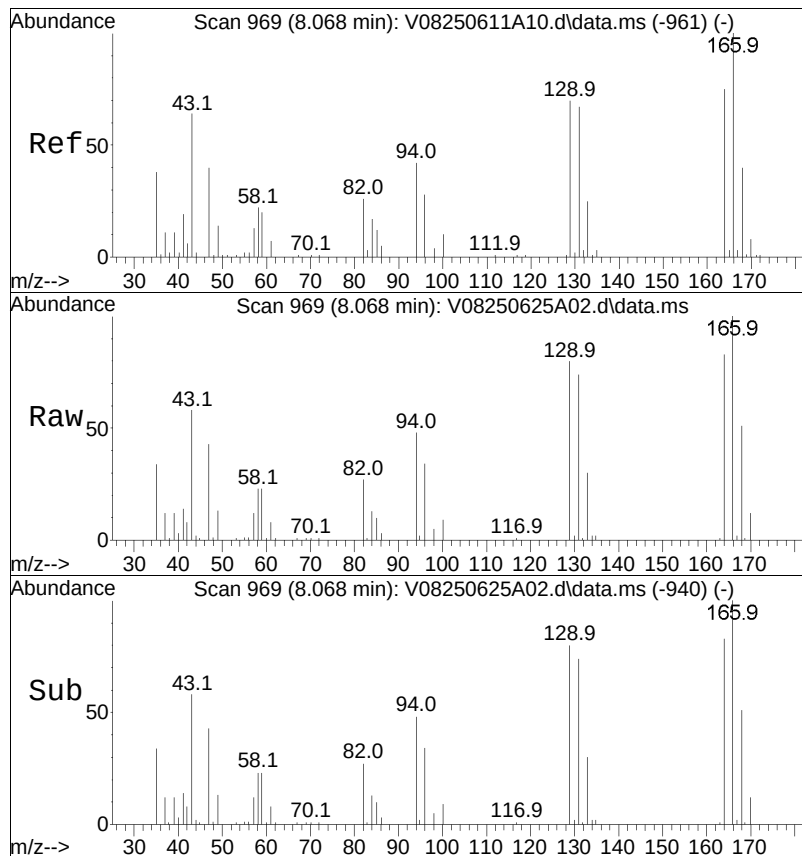




#61
Toluene
Concen: 8.75 ug/L
RT: 7.630 min Scan# 905
Delta R.T. 0.000 min
Lab File: V08250625A02.d
Acq: 25 Jun 2025 7:29 am

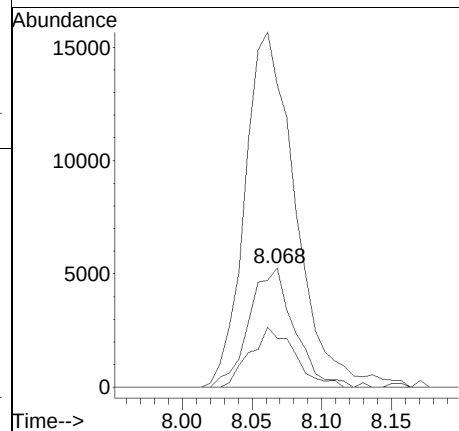
Tgt	Ion	Resp	Lower	Upper
92	100			
91	175.3	155390	140.8	211.2

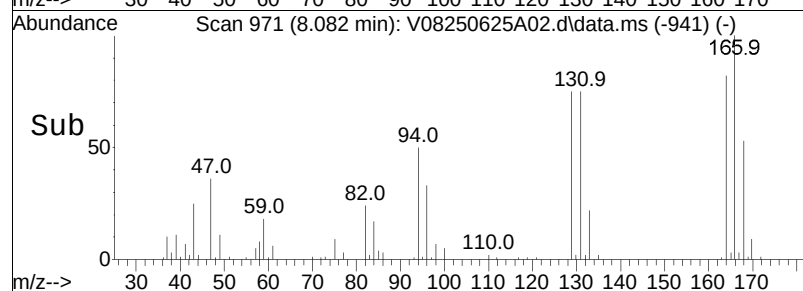
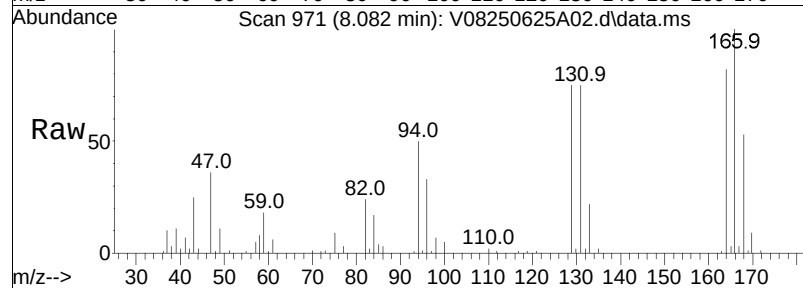
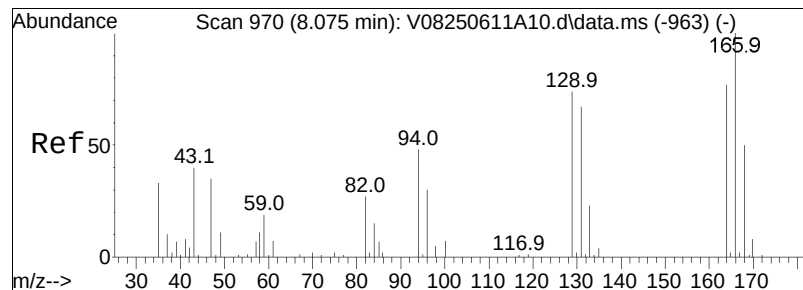




#62
 4-Methyl-2-pentanone
 Concen: 8.21 ug/L
 RT: 8.068 min Scan# 969
 Delta R.T. -0.000 min
 Lab File: V08250625A02.d
 Acq: 25 Jun 2025 7:29 am

Tgt Ion	Ratio	Lower	Upper
58	100		
100	49.6	33.6	50.4
43	334.3	271.0	406.6





#63

Tetrachloroethene

Concen: 8.31 ug/L

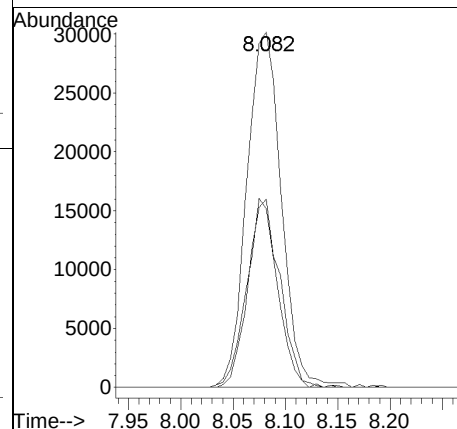
RT: 8.082 min Scan# 971

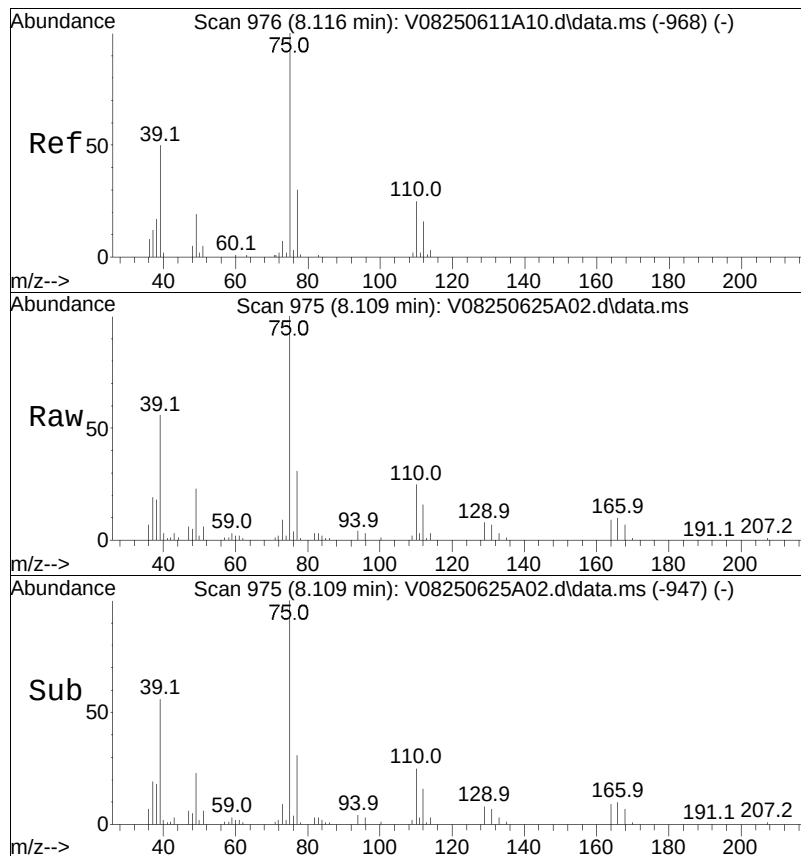
Delta R.T. 0.007 min

Lab File: V08250625A02.d

Acq: 25 Jun 2025 7:29 am

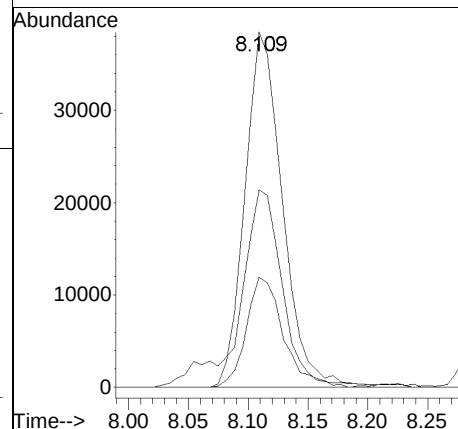
Tgt Ion:	166	Resp:	69420
Ion Ratio	Lower	Upper	
166	100		
168	49.1	26.2	66.2
94	47.4	23.6	63.6

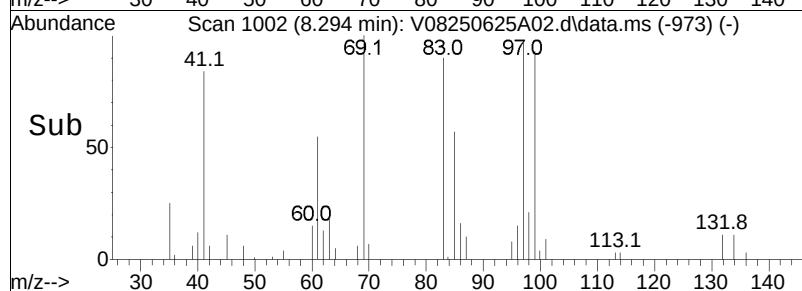
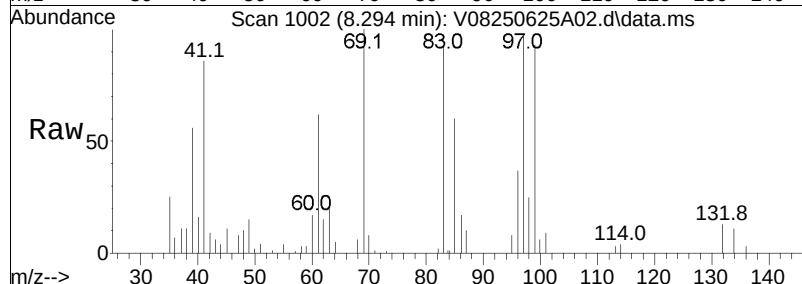
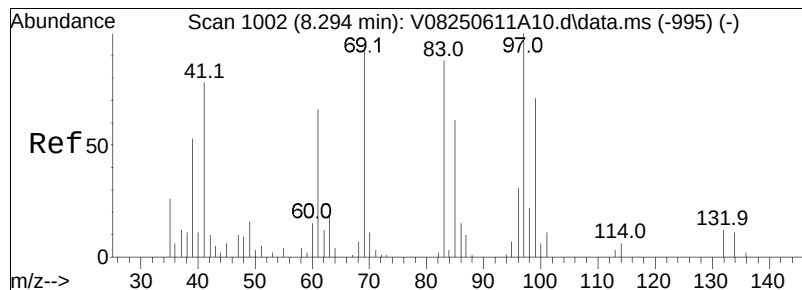




#65
 trans-1,3-Dichloropropene
 Concen: 9.54 ug/L
 RT: 8.109 min Scan# 975
 Delta R.T. -0.007 min
 Lab File: V08250625A02.d
 Acq: 25 Jun 2025 7:29 am

Tgt Ion:	75	Resp:	84179
Ion Ratio	Lower	Upper	
75	100		
77	30.8	9.8	49.8
39	63.5	45.2	85.2





#68

1,1,2-Trichloroethane

Concen: 8.84 ug/L

RT: 8.294 min Scan# 1002

Delta R.T. -0.000 min

Lab File: V08250625A02.d

Acq: 25 Jun 2025 7:29 am

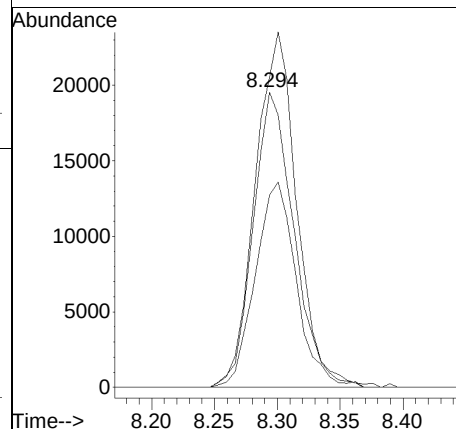
Tgt Ion: 83 Resp: 44197

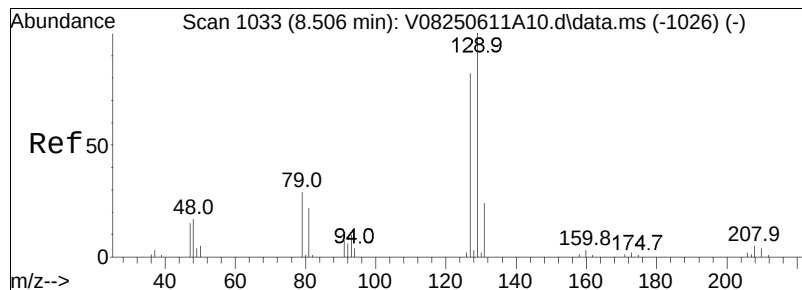
Ion Ratio Lower Upper

83 100

97 122.6 98.2 138.2

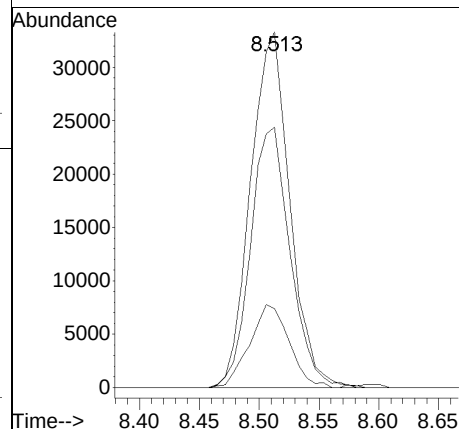
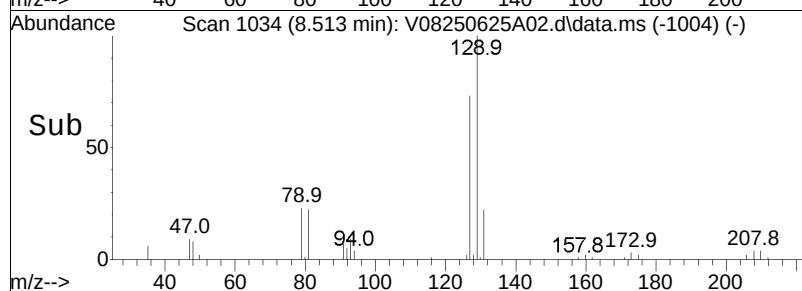
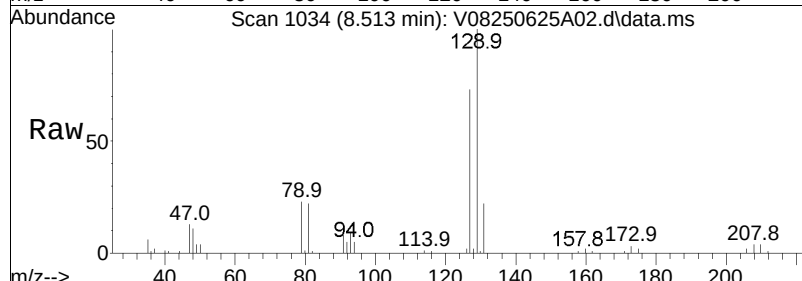
85 69.8 49.9 89.9

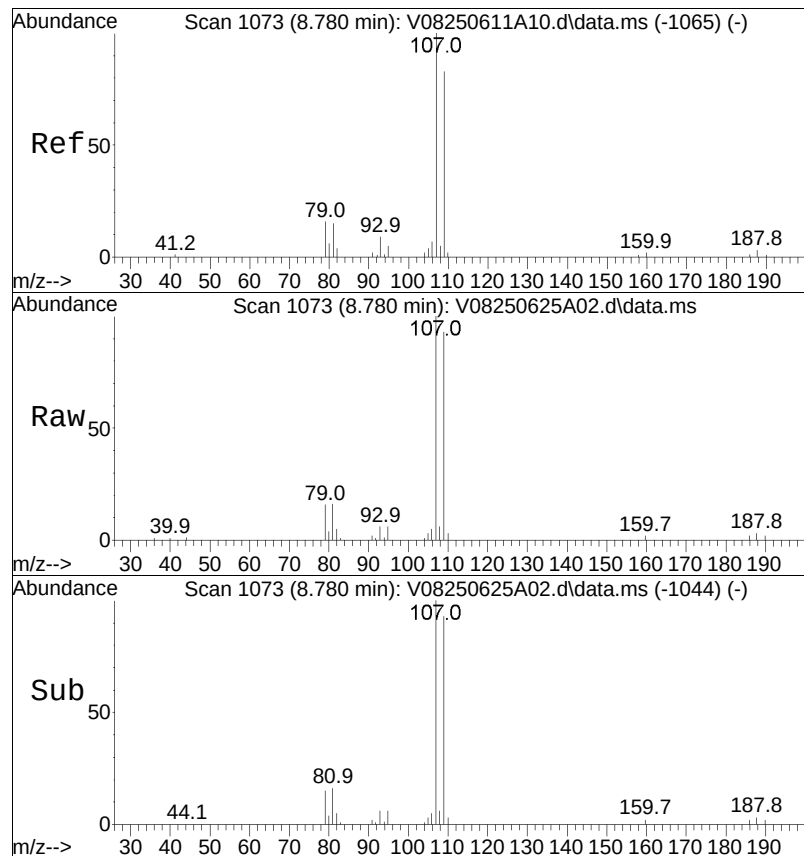




#69
 Chlorodibromomethane
 Concen: 9.19 ug/L
 RT: 8.513 min Scan# 1034
 Delta R.T. 0.007 min
 Lab File: V08250625A02.d
 Acq: 25 Jun 2025 7:29 am

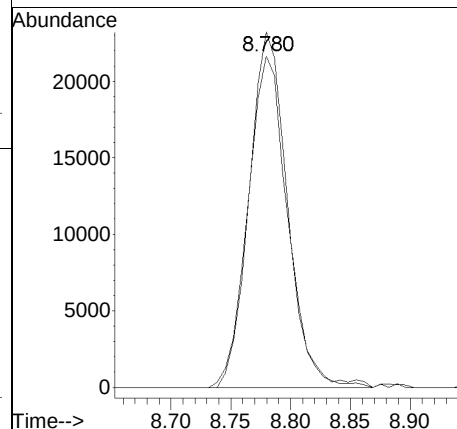
Tgt Ion	Ratio	Resp	Lower	Upper
129	100	75863		
81	23.4		3.3	43.3
127	73.9		58.2	98.2

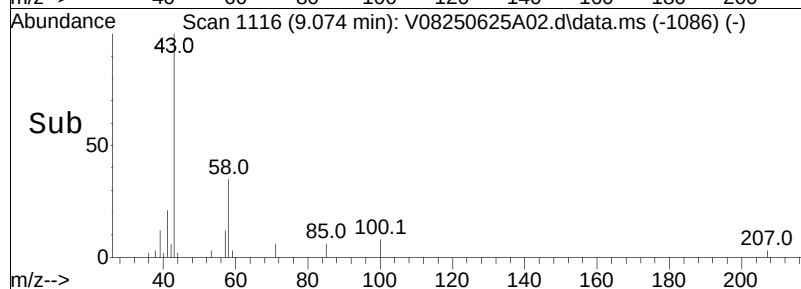
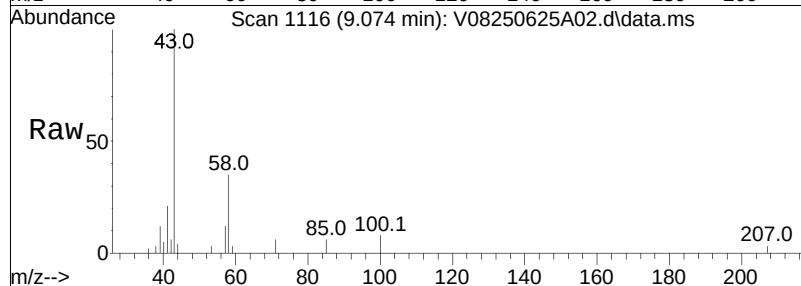
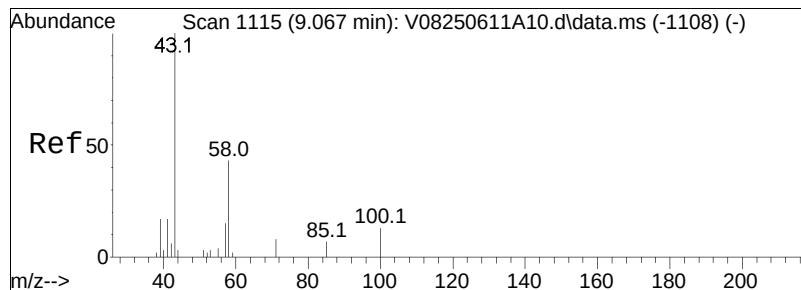




#71
 1,2-Dibromoethane
 Concen: 9.59 ug/L
 RT: 8.780 min Scan# 1073
 Delta R.T. -0.000 min
 Lab File: V08250625A02.d
 Acq: 25 Jun 2025 7:29 am

Tgt Ion	Ratio	Lower	Upper
107	100		
109	94.7	73.0	109.4





#72

2-Hexanone

Concen: 8.19 ug/L

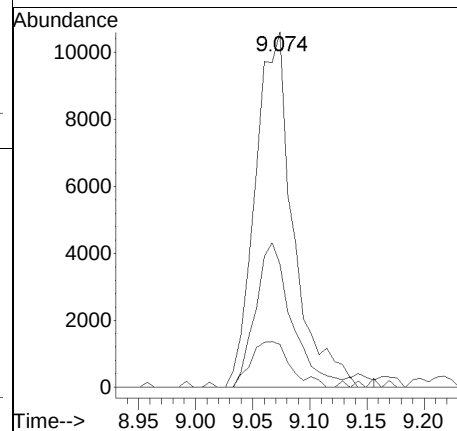
RT: 9.074 min Scan# 1116

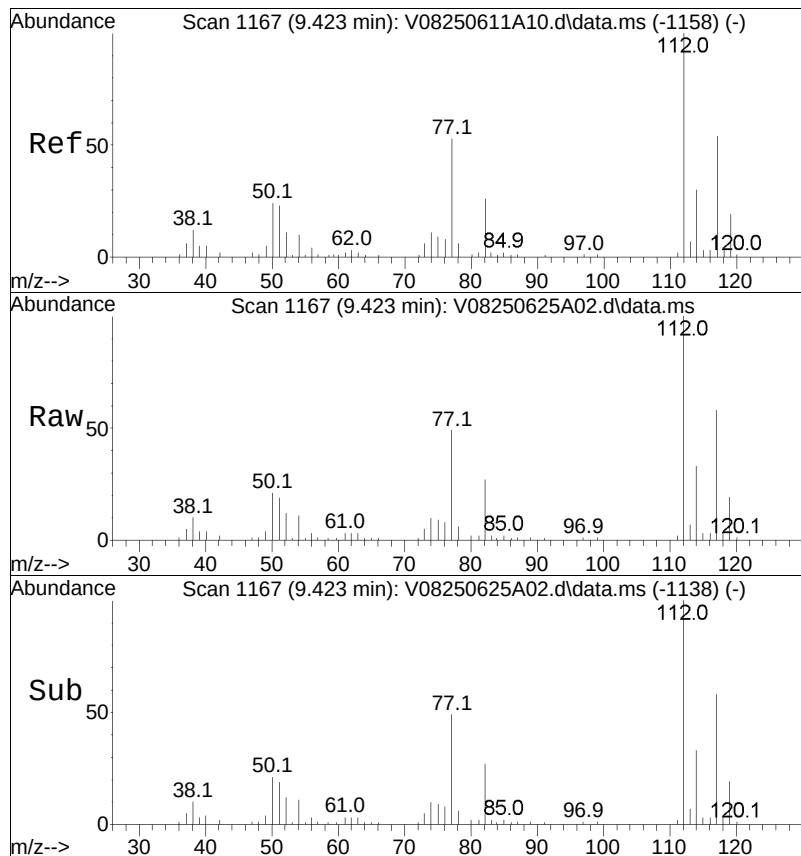
Delta R.T. 0.007 min

Lab File: V08250625A02.d

Acq: 25 Jun 2025 7:29 am

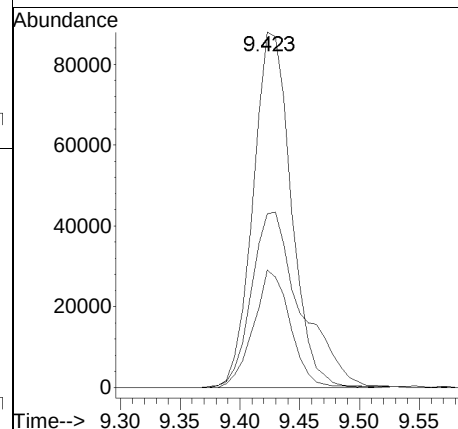
Tgt Ion:	43	Resp:	24996
Ion Ratio	Lower	Upper	
43	100		
58	38.7	33.5	50.3
57	13.3	12.6	18.8

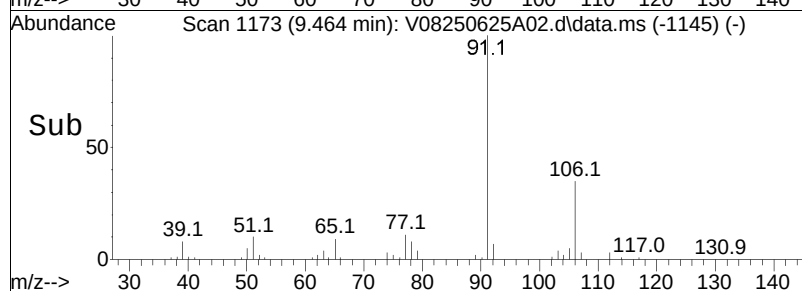
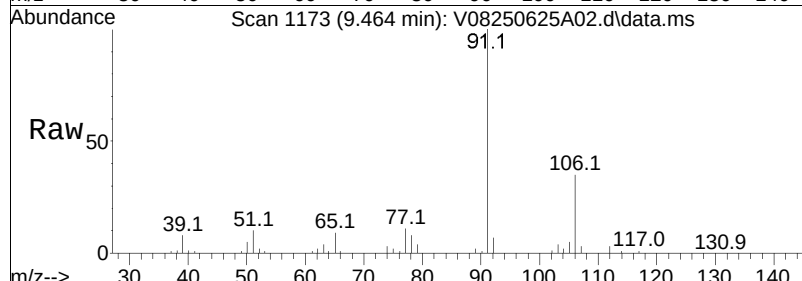
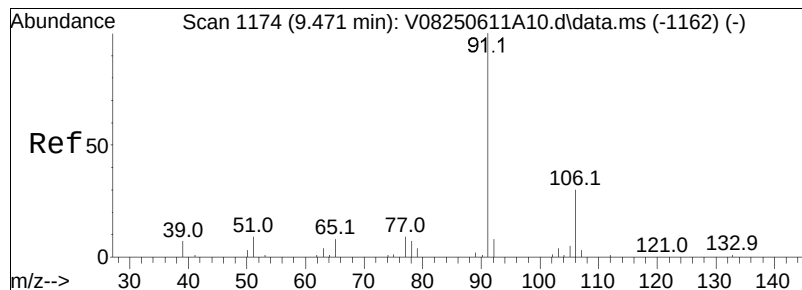




#73
 Chlorobenzene
 Concen: 8.78 ug/L
 RT: 9.423 min Scan# 1167
 Delta R.T. -0.000 min
 Lab File: V08250625A02.d
 Acq: 25 Jun 2025 7:29 am

Tgt	Ion	Ratio	Resp	Lower	Upper
112	100		194777		
77	64.3	55.3		82.9	
114	31.9	25.4		38.2	





#74

Ethylbenzene

Concen: 8.47 ug/L

RT: 9.464 min Scan# 1173

Delta R.T. -0.007 min

Lab File: V08250625A02.d

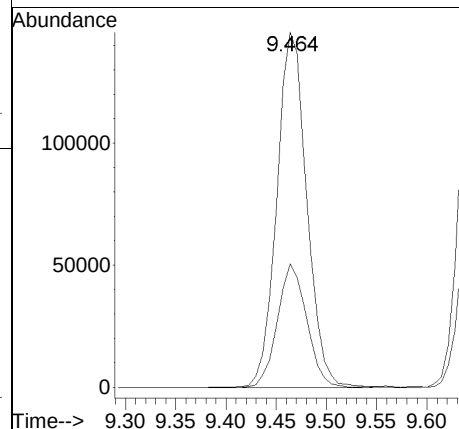
Acq: 25 Jun 2025 7:29 am

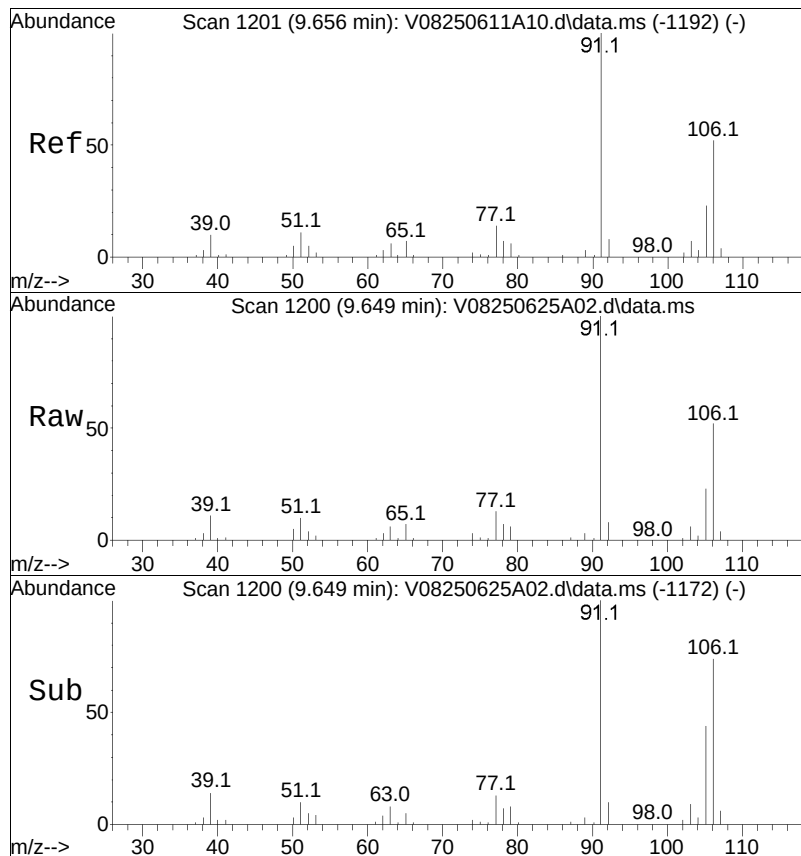
Tgt Ion: 91 Resp: 301489

Ion Ratio Lower Upper

91 100

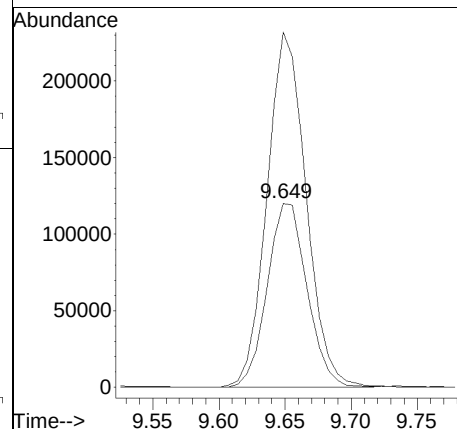
106 33.9 25.4 38.0

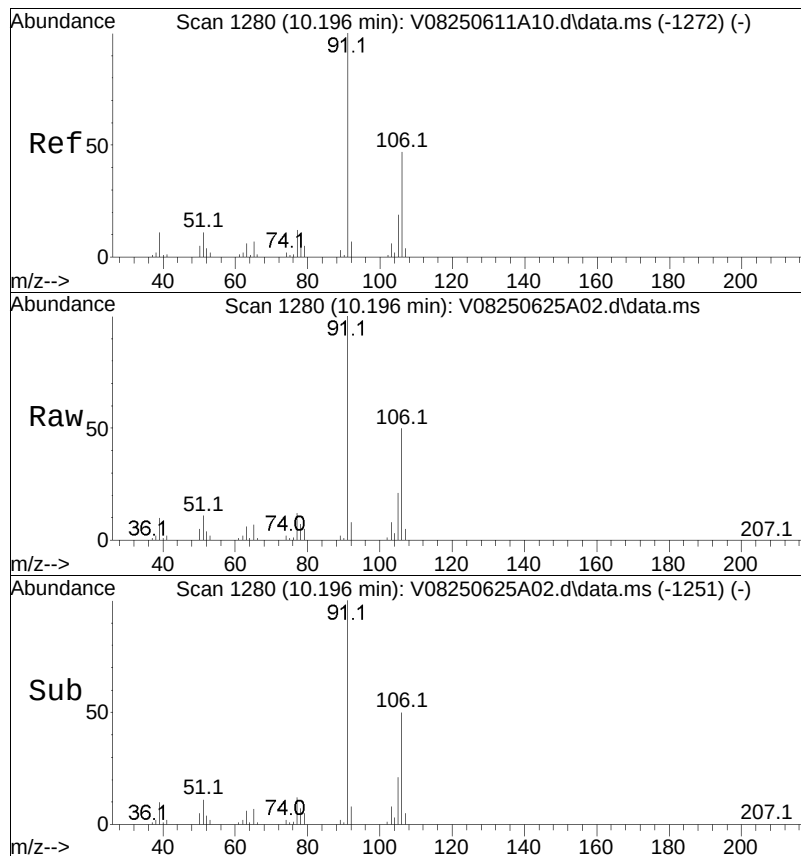




#76
 p/m Xylene
 Concen: 16.21 ug/L
 RT: 9.649 min Scan# 1200
 Delta R.T. -0.007 min
 Lab File: V08250625A02.d
 Acq: 25 Jun 2025 7:29 am

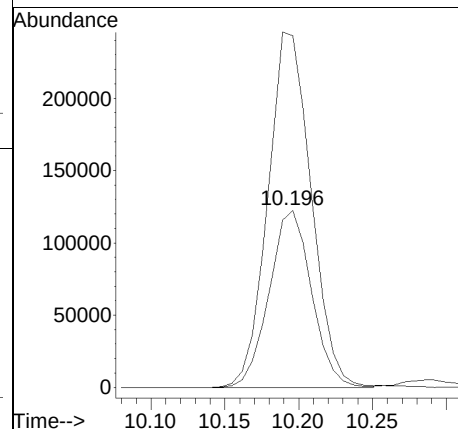
Tgt	Ion	Ratio	Lower	Upper
106	100			
91	190.4	155.4	233.2	

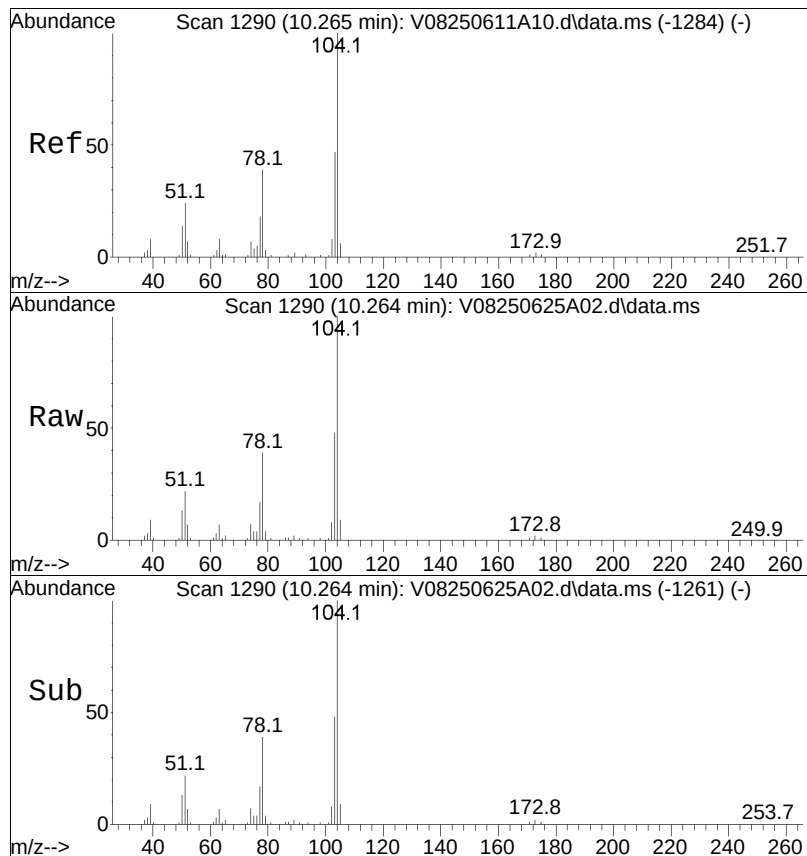




#77
 o Xylene
 Concen: 15.86 ug/L
 RT: 10.196 min Scan# 1280
 Delta R.T. -0.000 min
 Lab File: V08250625A02.d
 Acq: 25 Jun 2025 7:29 am

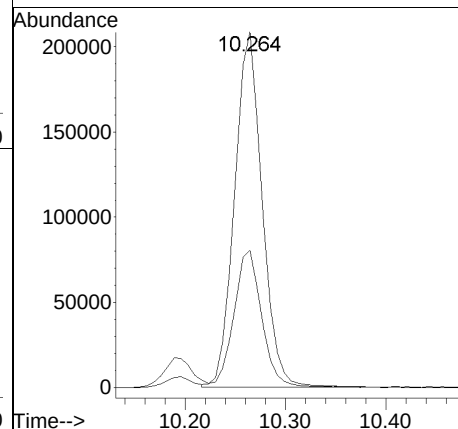
Tgt	Ion	Ratio	Lower	Upper
106	100			
91	204.8	167.4	251.0	

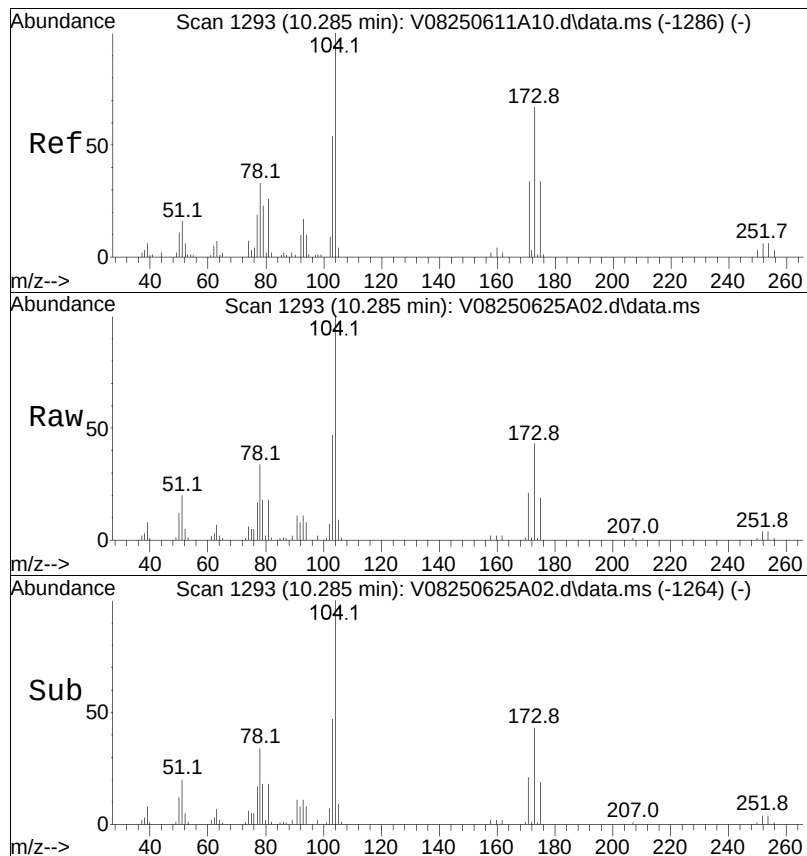




#78
 Styrene
 Concen: 14.61 ug/L
 RT: 10.264 min Scan# 1290
 Delta R.T. -0.001 min
 Lab File: V08250625A02.d
 Acq: 25 Jun 2025 7:29 am

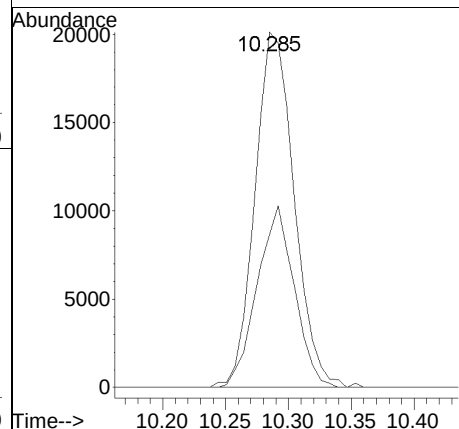
Tgt Ion	Ratio	Lower	Upper
104	100		
78	39.0	31.9	47.9

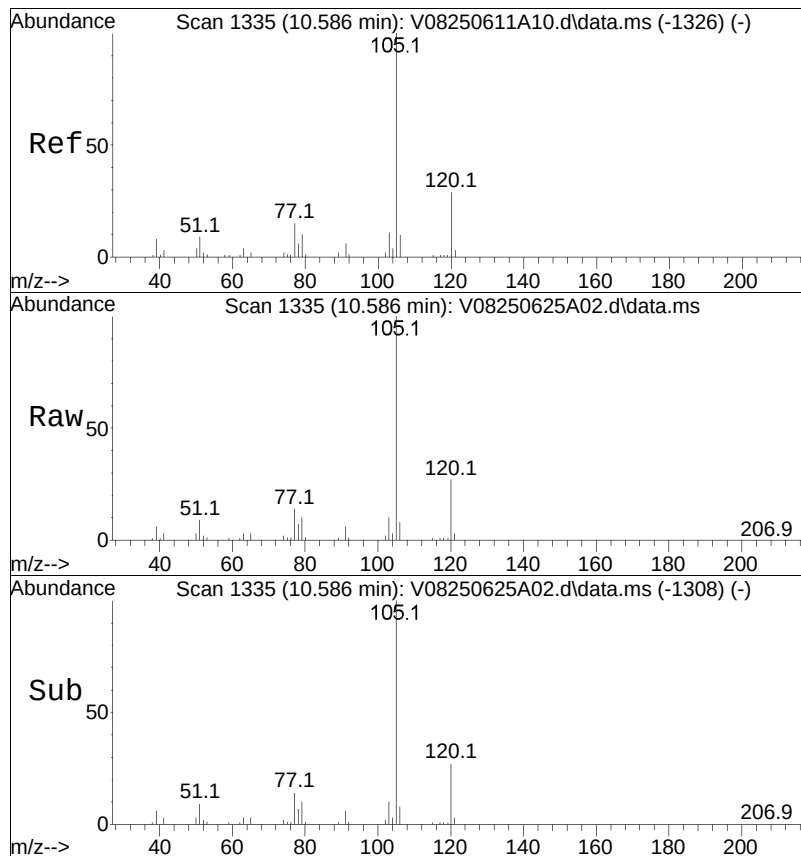




#80
 Bromoform
 Concen: 8.26 ug/L
 RT: 10.285 min Scan# 1293
 Delta R.T. -0.000 min
 Lab File: V08250625A02.d
 Acq: 25 Jun 2025 7:29 am

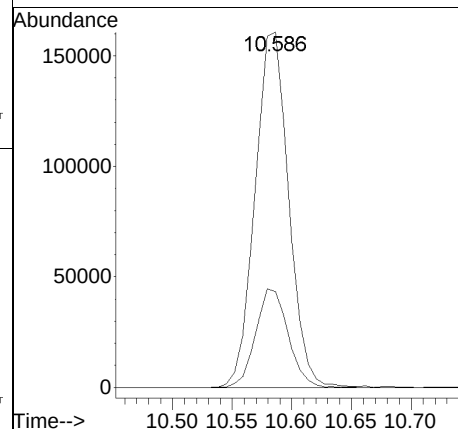
Tgt Ion	Ratio	Lower	Upper
173	100		
175	48.5	27.4	67.4

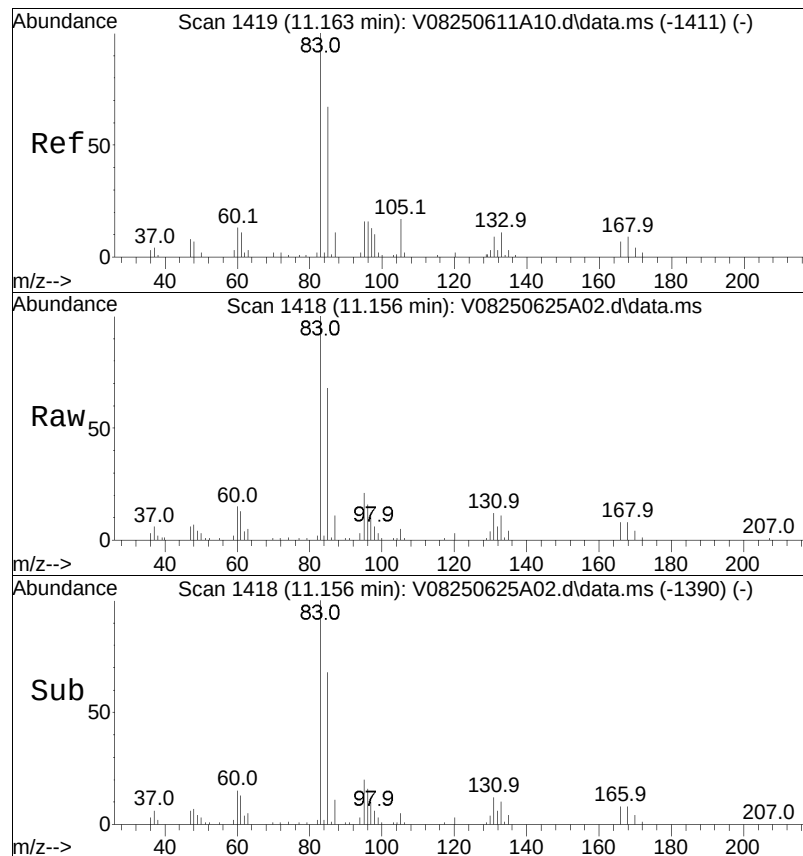




#82
 Isopropylbenzene
 Concen: 8.55 ug/L
 RT: 10.586 min Scan# 1335
 Delta R.T. 0.000 min
 Lab File: V08250625A02.d
 Acq: 25 Jun 2025 7:29 am

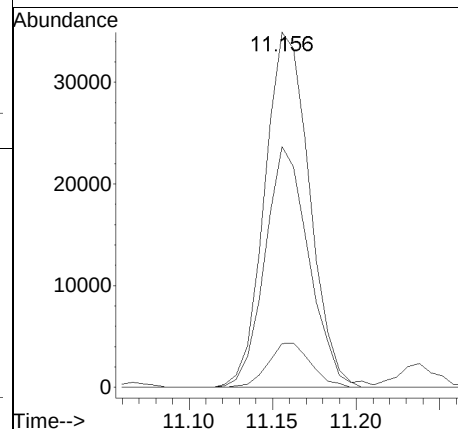
Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.8	7.3	47.3

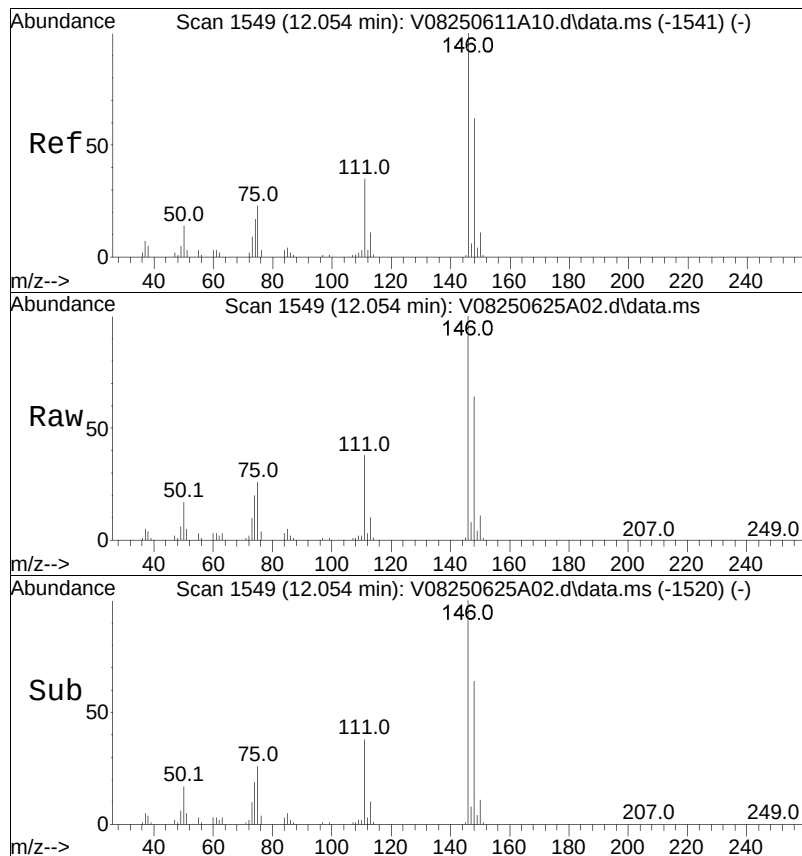




#87
 1,1,2,2-Tetrachloroethane
 Concen: 9.34 ug/L
 RT: 11.156 min Scan# 1418
 Delta R.T. -0.007 min
 Lab File: V08250625A02.d
 Acq: 25 Jun 2025 7:29 am

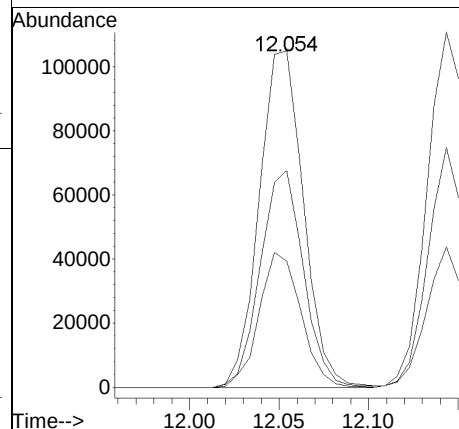
Tgt	Ion: 83	Resp:	65037
Ion	Ratio	Lower	Upper
83	100		
131	12.0	0.0	29.6
85	66.9	49.7	89.7

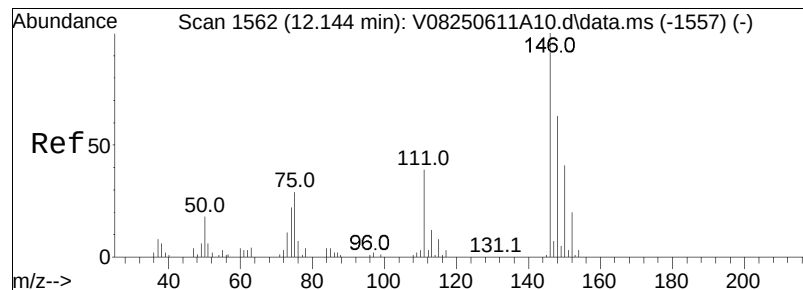




#100
 1,3-Dichlorobenzene
 Concen: 8.80 ug/L
 RT: 12.054 min Scan# 1549
 Delta R.T. 0.000 min
 Lab File: V08250625A02.d
 Acq: 25 Jun 2025 7:29 am

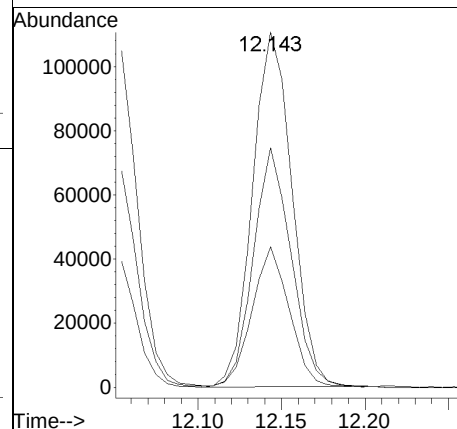
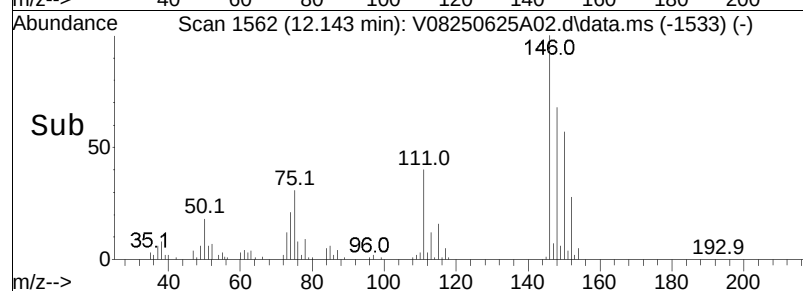
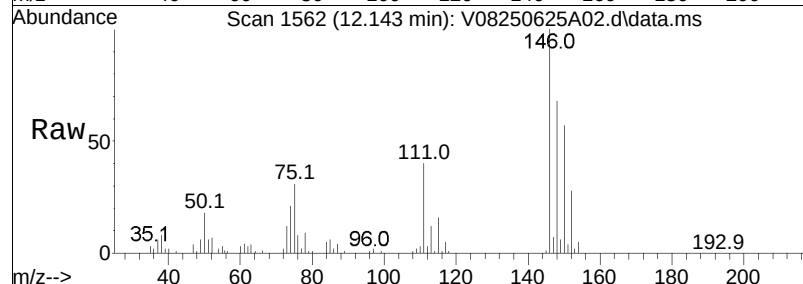
Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.9	24.4	50.6
148	62.8	41.0	85.2

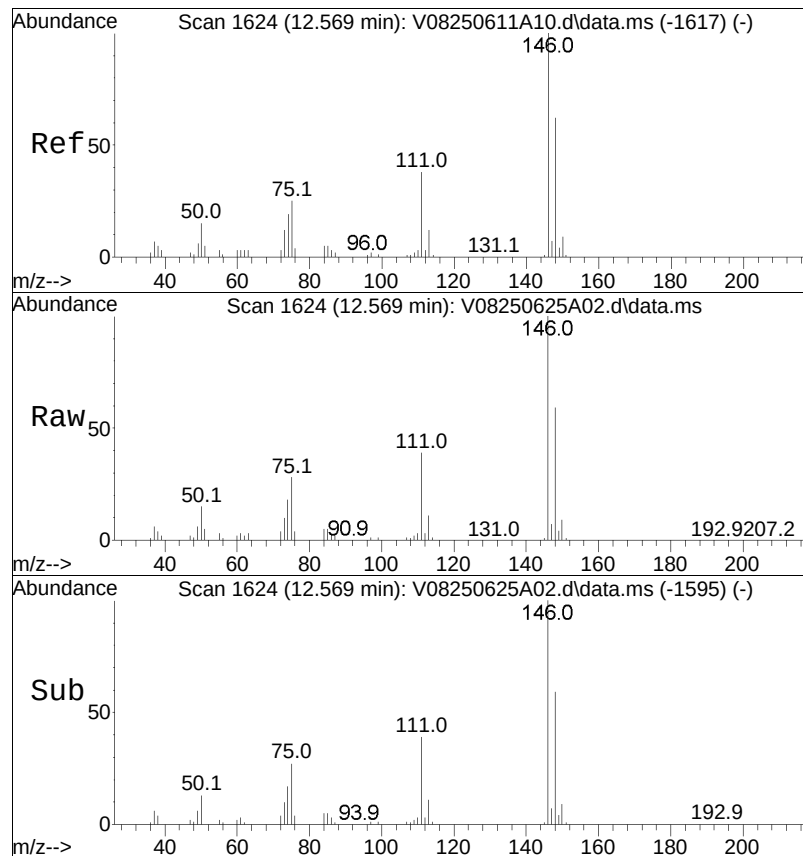




#101
 1,4-Dichlorobenzene
 Concen: 8.71 ug/L
 RT: 12.143 min Scan# 1562
 Delta R.T. -0.001 min
 Lab File: V08250625A02.d
 Acq: 25 Jun 2025 7:29 am

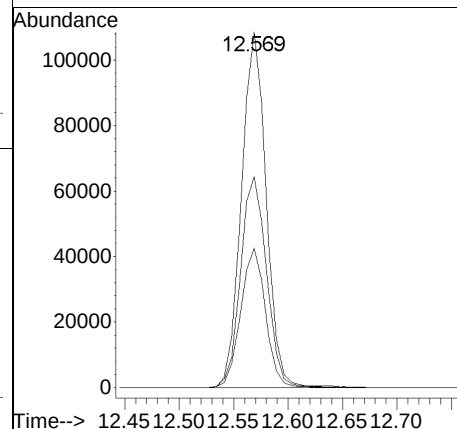
Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.0	29.8	44.6
148	65.1	50.9	76.3

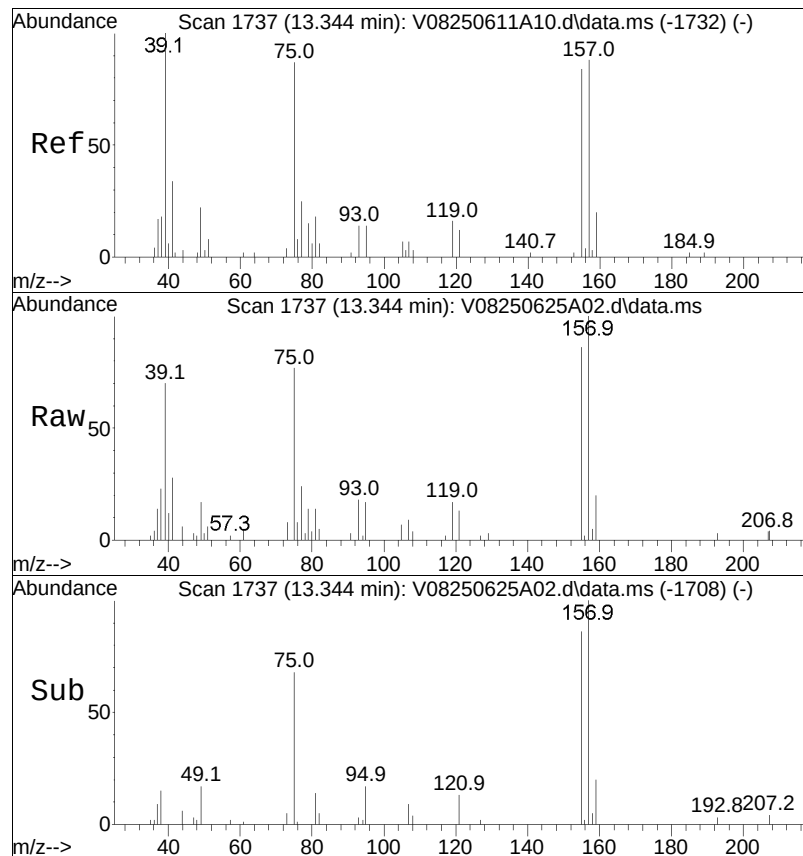




#104
 1,2-Dichlorobenzene
 Concen: 9.07 ug/L
 RT: 12.569 min Scan# 1624
 Delta R.T. -0.000 min
 Lab File: V08250625A02.d
 Acq: 25 Jun 2025 7:29 am

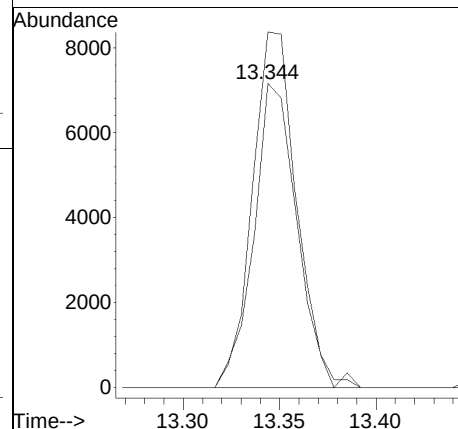
Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.3	25.0	51.8
148	62.1	40.0	83.2

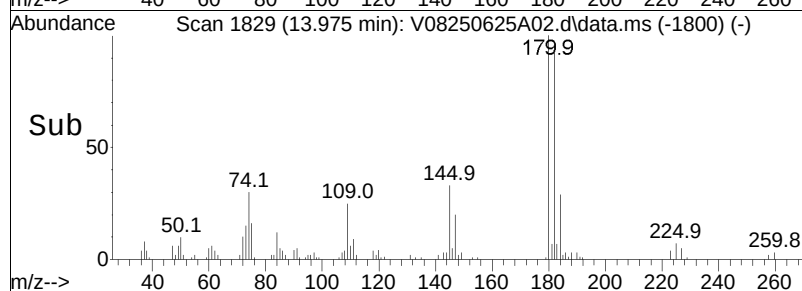
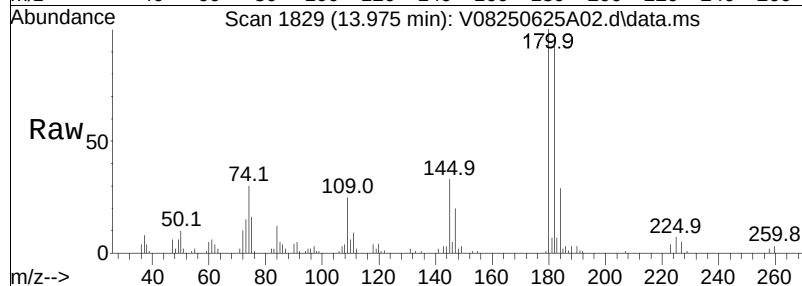
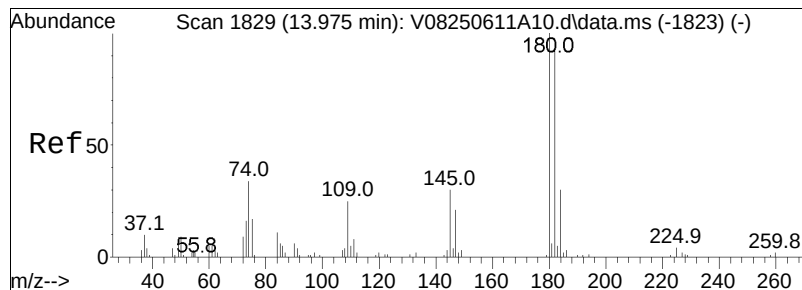




#106
 1,2-Dibromo-3-chloropropane
 Concen: 10.16 ug/L
 RT: 13.344 min Scan# 1737
 Delta R.T. -0.000 min
 Lab File: V08250625A02.d
 Acq: 25 Jun 2025 7:29 am

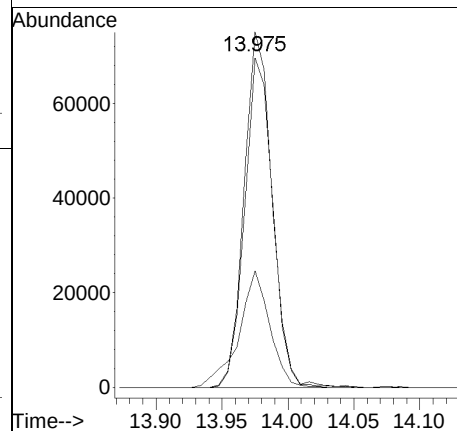
Tgt Ion	Ratio	Lower	Upper
155	100		
157	119.2	97.9	146.9

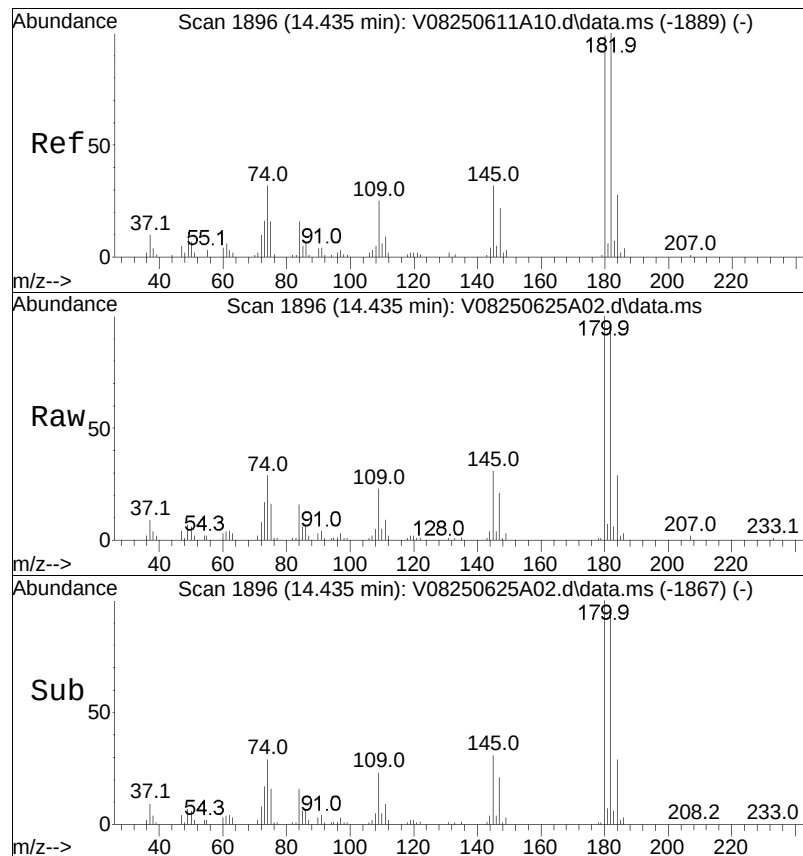




#109
 1,2,4-Trichlorobenzene
 Concen: 8.97 ug/L
 RT: 13.975 min Scan# 1829
 Delta R.T. 0.000 min
 Lab File: V08250625A02.d
 Acq: 25 Jun 2025 7:29 am

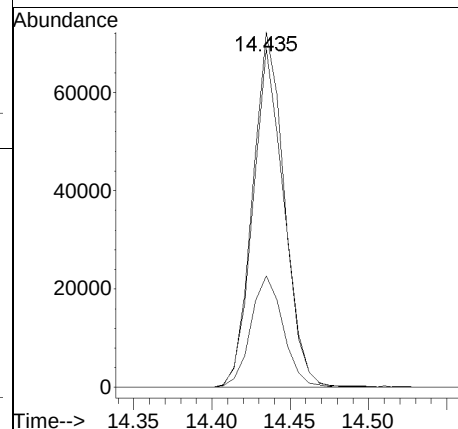
Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.0	74.1	111.1
145	36.3	27.8	41.8





#111
 1,2,3-Trichlorobenzene
 Concen: 9.19 ug/L
 RT: 14.435 min Scan# 1896
 Delta R.T. -0.000 min
 Lab File: V08250625A02.d
 Acq: 25 Jun 2025 7:29 am

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	102168		
182	93.8	76.1	114.1	
145	32.1	25.9	38.9	



Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250625A\
 Data File : V08250625A26.d
 Acq On : 25 Jun 2025 4:44 pm
 Operator : VOA108:AJK
 Sample : WG2084241-6,31,10,10,,A1
 Misc : WG2084241,ICAL22356
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 26 15:55:16 2025
 Quant Method : K:\VOA108\2025\250625A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250625A\V08250625A01.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.906	96	268227	10.000	ug/L	0.00
Standard Area 1 = 305323			Recovery =	87.85%		
59) Chlorobenzene-d5	9.409	117	200154	10.000	ug/L	0.00
Standard Area 1 = 230501			Recovery =	86.83%		
79) 1,4-Dichlorobenzene-d4	12.137	152	122646	10.000	ug/L	0.00
Standard Area 1 = 131049			Recovery =	93.59%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.102	113	86658	10.029	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.29%		
43) 1,2-Dichloroethane-d4	5.626	65	82914	10.046	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.46%		
60) Toluene-d8	7.576	98	254064	10.386	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	103.86%		
83) 4-Bromofluorobenzene	10.916	95	86426	10.336	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	103.36%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.624	85	58115	8.652	ug/L	98
3) Chloromethane	1.803	50	59491	8.520	ug/L	98
4) Vinyl chloride	1.876	62	83234	9.993	ug/L	98
5) Bromomethane	2.176	94	34199	5.689	ug/L	99
6) Chloroethane	2.275	64	61598	10.262	ug/L	100
7) Trichlorofluoromethane	2.422	101	179787	9.188	ug/L	100
10) 1,1-Dichloroethene	2.894	96	111186	12.288	ug/L	99
11) Carbon disulfide	2.927	76	277007	10.170	ug/L	98
12) Freon-113	2.934	101	83695	9.424	ug/L	94
15) Methylene chloride	3.439	84	62870	8.339	ug/L	98
17) Acetone	3.479	43	15142	11.253	ug/L	96
18) trans-1,2-Dichloroethene	3.586	96	60518	8.945	ug/L	93
19) Methyl acetate	3.592	43	27320	8.363	ug/L	98
20) Methyl tert-butyl ether	3.685	73	147689	9.037	ug/L	99
23) 1,1-Dichloroethane	4.158	63	143677	11.665	ug/L	99
28) cis-1,2-Dichloroethene	4.676	96	69514	8.981	ug/L	98
30) Bromochloromethane	4.856	128	38077	8.511	ug/L	97
31) Cyclohexane	4.869	56	72907	7.263	ug/L	94
32) Chloroform	4.936	83	118779	8.605	ug/L	97
34) Carbon tetrachloride	5.069	117	100257	8.922	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250625A\
 Data File : V08250625A26.d
 Acq On : 25 Jun 2025 4:44 pm
 Operator : VOA108:AJK
 Sample : WG2084241-6,31,10,10,,A1
 Misc : WG2084241,ICAL22356
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 26 15:55:16 2025
 Quant Method : K:\VOA108\2025\250625A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250625A\V08250625A01.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37)	1,1,1-Trichloroethane	5.129	97	156790	13.653	ug/L	98
39)	2-Butanone	5.222	43	18546	9.213	ug/L	88
41)	Benzene	5.489	78	247263	9.065	ug/L	98
44)	1,2-Dichloroethane	5.694	62	75820	8.970	ug/L	96
47)	Methyl cyclohexane	6.070	83	69995	6.849	ug/L	94
48)	Trichloroethene	6.084	95	64894	8.635	ug/L	96
51)	1,2-Dichloropropane	6.618	63	55451	8.551	ug/L	99
54)	Bromodichloromethane	6.693	83	89168	9.228	ug/L	99
58)	cis-1,3-Dichloropropene	7.377	75	79783	8.201	ug/L	99
61)	Toluene	7.637	92	139034	9.105	ug/L	99
62)	4-Methyl-2-pentanone	8.068	58	10773	8.608	ug/L #	88
63)	Tetrachloroethene	8.089	166	65052	9.057	ug/L	98
65)	trans-1,3-Dichloropropene	8.116	75	74081	9.761	ug/L	88
68)	1,1,2-Trichloroethane	8.308	83	43375	10.095	ug/L	97
69)	Chlorodibromomethane	8.513	129	70826	9.974	ug/L	99
71)	1,2-Dibromoethane	8.780	107	48300	10.339	ug/L	94
72)	2-Hexanone	9.074	43	22873	8.714	ug/L	99
73)	Chlorobenzene	9.437	112	175438	9.192	ug/L	95
74)	Ethylbenzene	9.471	91	263705	8.614	ug/L	97
76)	p/m Xylene	9.656	106	219531	16.434	ug/L	99
77)	o Xylene	10.203	106	213986	16.180	ug/L	99
78)	Styrene	10.272	104	352408	15.011	ug/L	97
80)	Bromoform	10.292	173	41767	8.953	ug/L	98
82)	Isopropylbenzene	10.586	105	275010	8.482	ug/L	99
87)	1,1,2,2-Tetrachloroethane	11.163	83	64550	10.522	ug/L	98
100)	1,3-Dichlorobenzene	12.055	146	159488	8.811	ug/L	99
101)	1,4-Dichlorobenzene	12.151	146	161634	8.768	ug/L	99
104)	1,2-Dichlorobenzene	12.569	146	152144	9.150	ug/L	98
106)	1,2-Dibromo-3-chloropr...	13.351	155	11187	11.489	ug/L	99
109)	1,2,4-Trichlorobenzene	13.982	180	93859	8.599	ug/L	99
111)	1,2,3-Trichlorobenzene	14.442	180	88330	9.017	ug/L	100

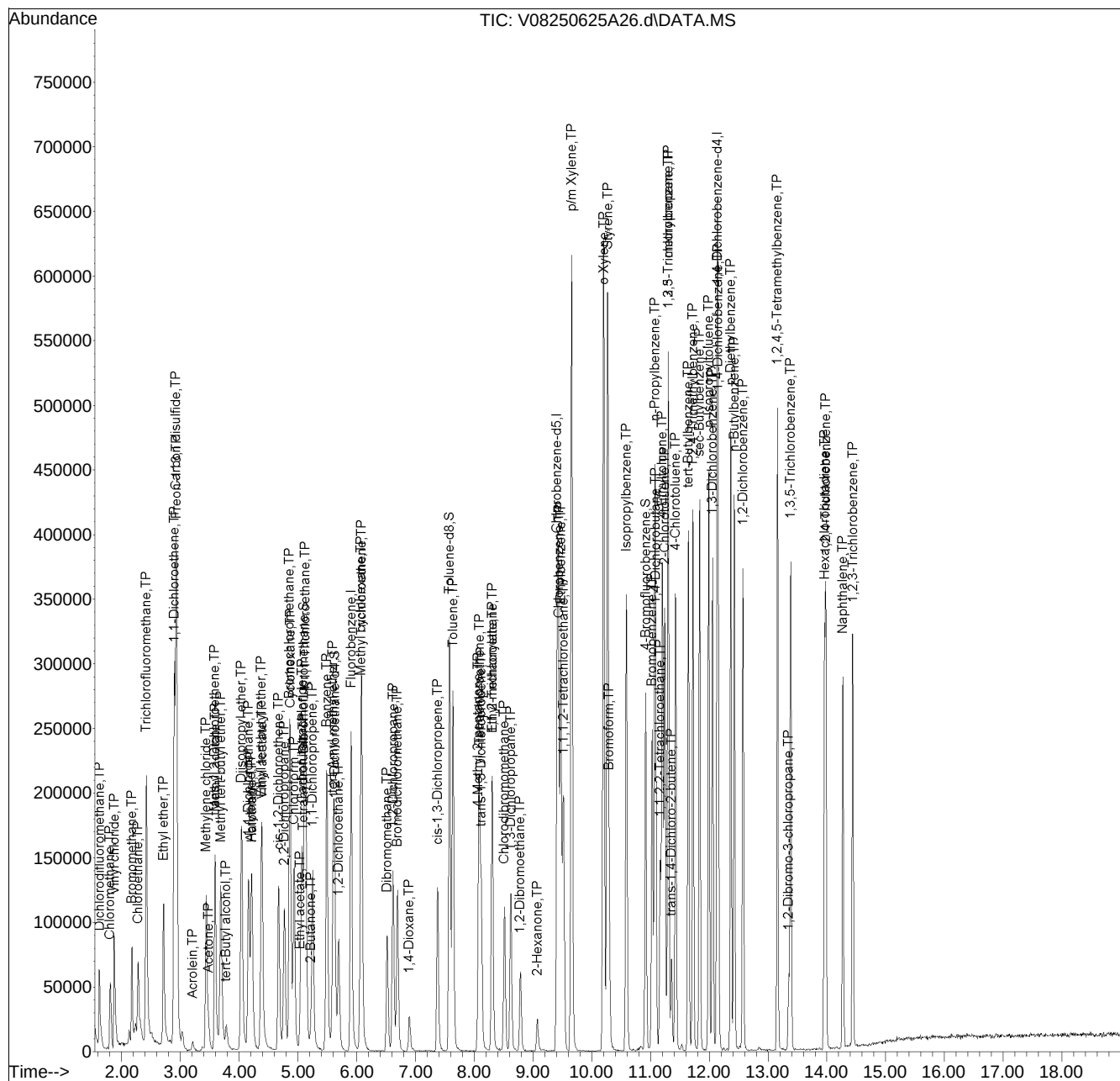
(#) = qualifier out of range (m) = manual integration (+) = signals summed

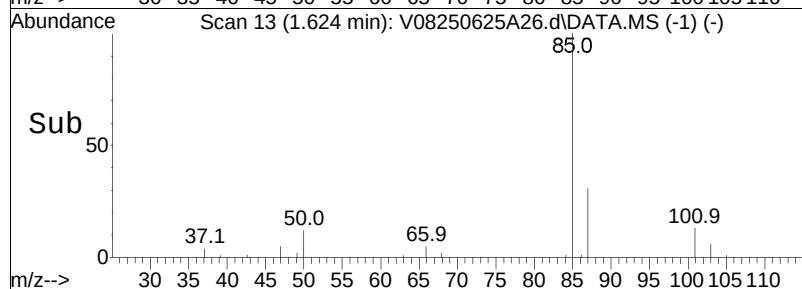
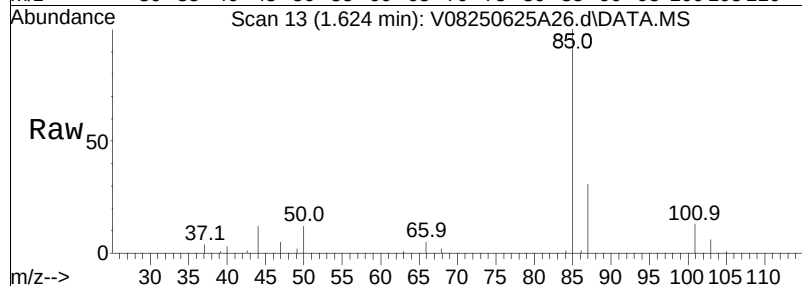
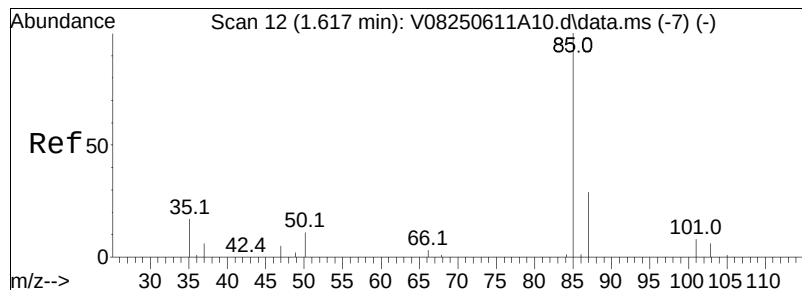
(QT Reviewed)

Data Path : K:\VOA108\2025\250625A\
Data File : V08250625A26.d
Acq On : 25 Jun 2025 4:44 pm
Operator : VOA108:AJK
Sample : WG2084241-6,31,10,10,,A1
Misc : WG2084241,ICAL22356
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 26 15:55:16 2025
Quant Method : K:\VOA108\2025\250625A\V108_250611A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 11 15:00:39 2025
Response via : Initial Calibration

Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane





#2

Dichlorodifluoromethane

Concen: 8.65 ug/L

RT: 1.624 min Scan# 13

Delta R.T. 0.007 min

Lab File: V08250625A26.d

Acq: 25 Jun 2025 4:44 pm

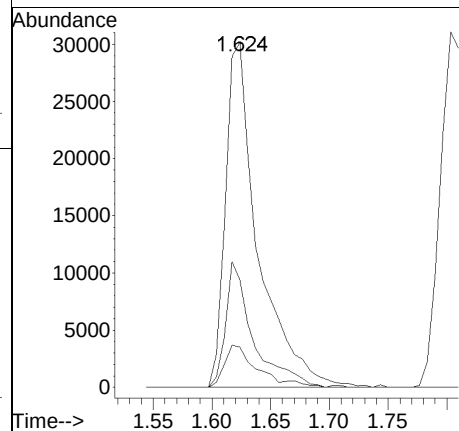
Tgt Ion: 85 Resp: 58115

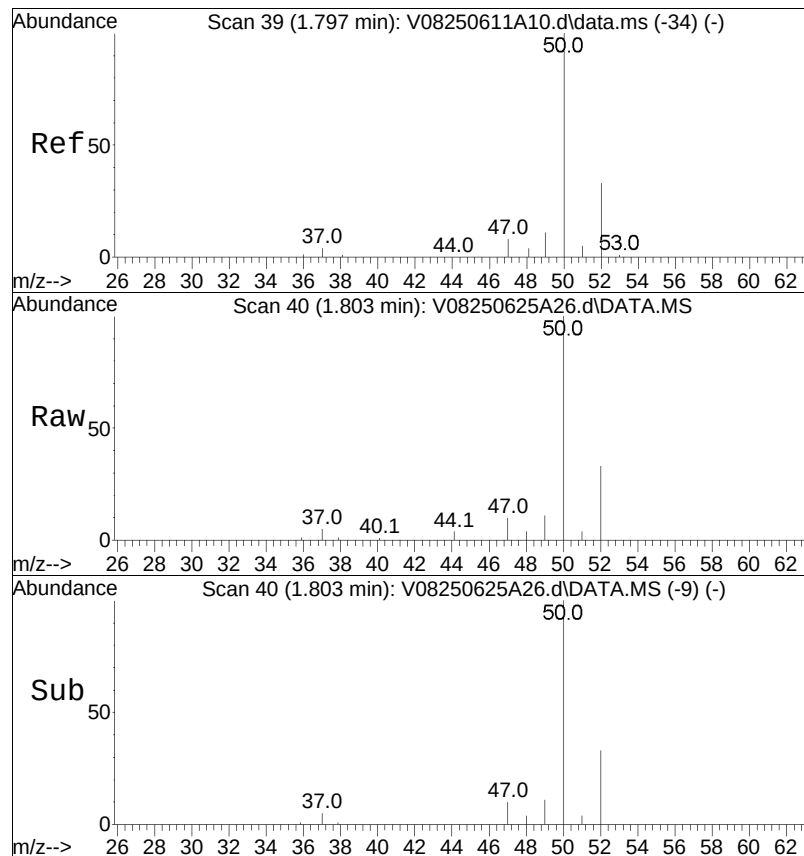
Ion Ratio Lower Upper

85 100

87 30.9 20.8 43.2

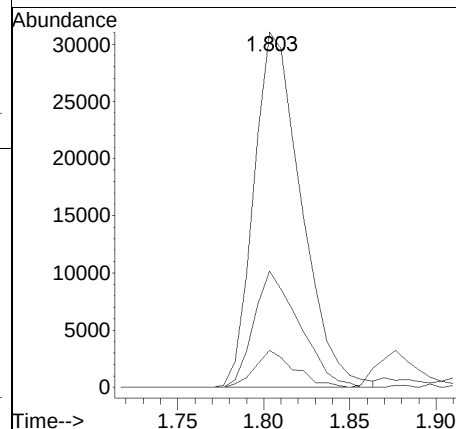
50 12.6 8.4 17.4

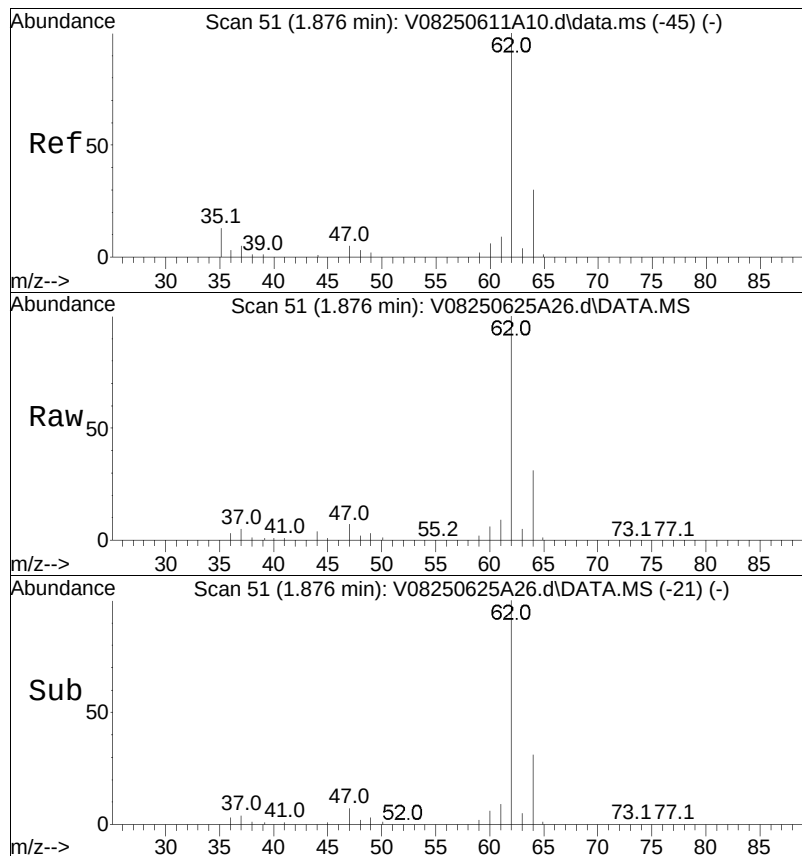




#3
 Chloromethane
 Concen: 8.52 ug/L
 RT: 1.803 min Scan# 40
 Delta R.T. 0.006 min
 Lab File: V08250625A26.d
 Acq: 25 Jun 2025 4:44 pm

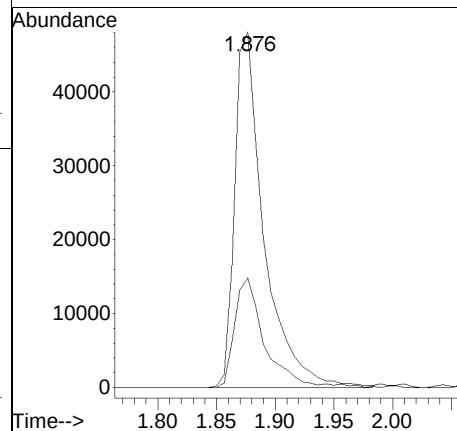
Tgt	Ion: 50	Resp:	59491
Ion	Ratio	Lower	Upper
50	100		
52	31.5	12.4	52.4
47	8.8	0.0	28.0

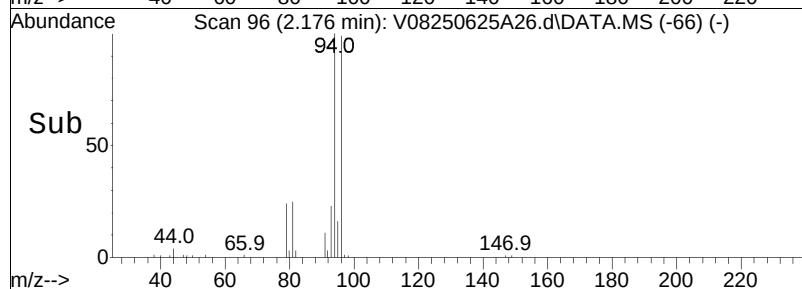
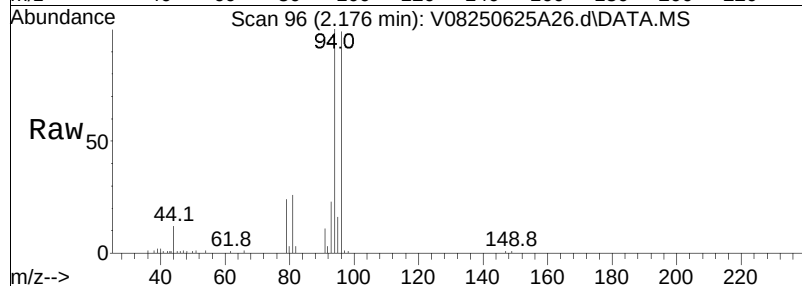
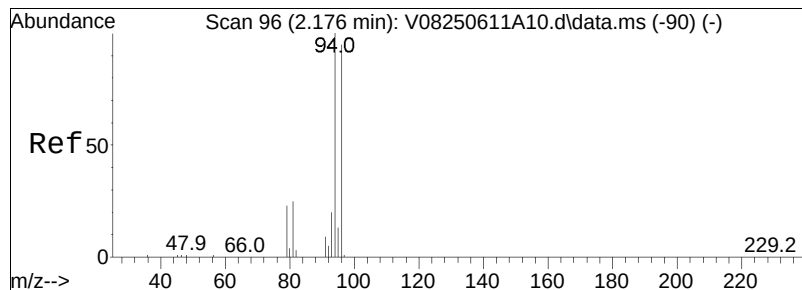




#4
 Vinyl chloride
 Concen: 9.99 ug/L
 RT: 1.876 min Scan# 51
 Delta R.T. 0.000 min
 Lab File: V08250625A26.d
 Acq: 25 Jun 2025 4:44 pm

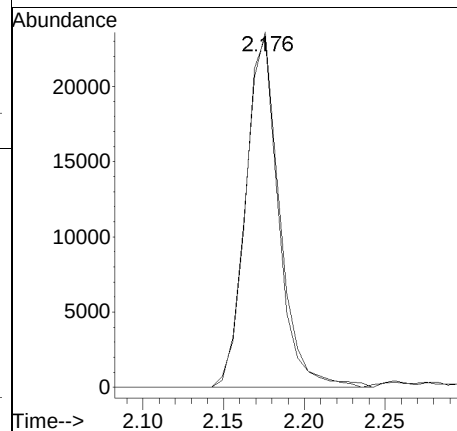
Tgt Ion	Ratio	Lower	Upper
62	100		
64	31.7	10.5	50.5

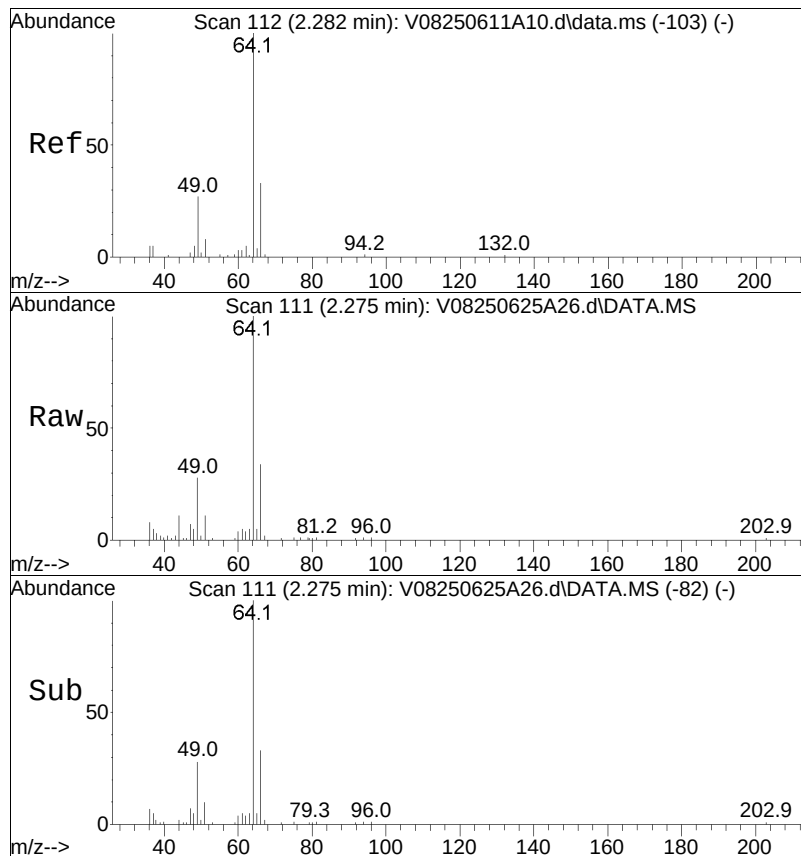




#5
 Bromomethane
 Concen: 5.69 ug/L
 RT: 2.176 min Scan# 96
 Delta R.T. -0.000 min
 Lab File: V08250625A26.d
 Acq: 25 Jun 2025 4:44 pm

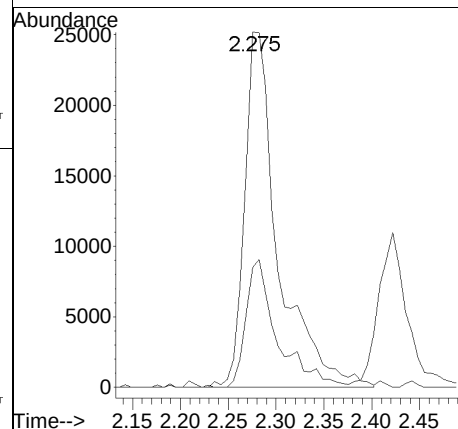
Tgt Ion	Ratio	Lower	Upper
94	100		
96	96.3	77.7	117.7

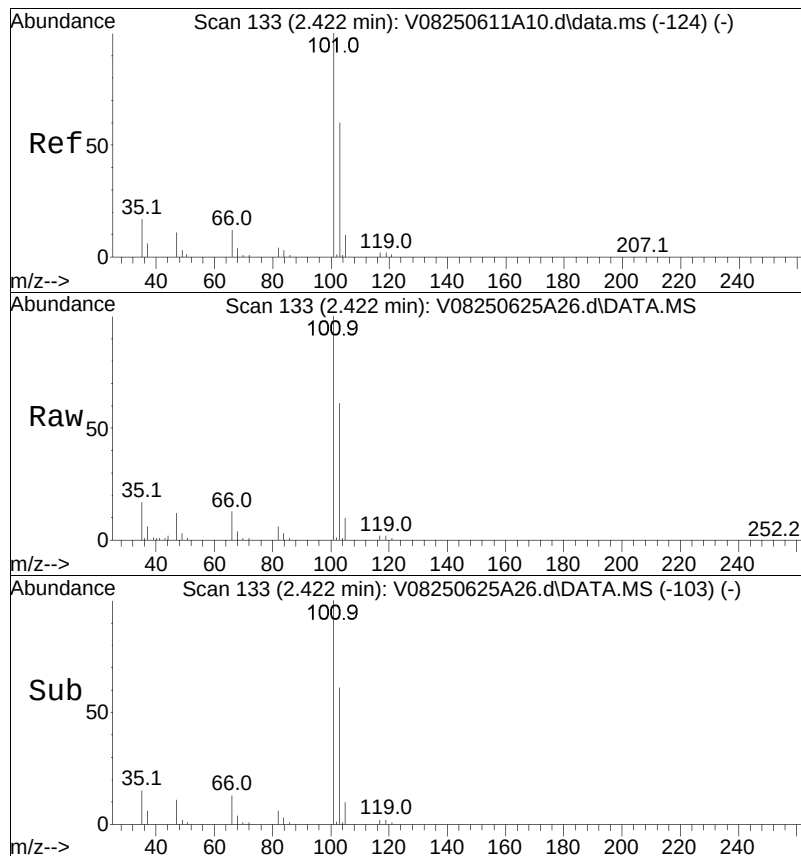




#6
 Chloroethane
 Concen: 10.26 ug/L
 RT: 2.275 min Scan# 111
 Delta R.T. -0.007 min
 Lab File: V08250625A26.d
 Acq: 25 Jun 2025 4:44 pm

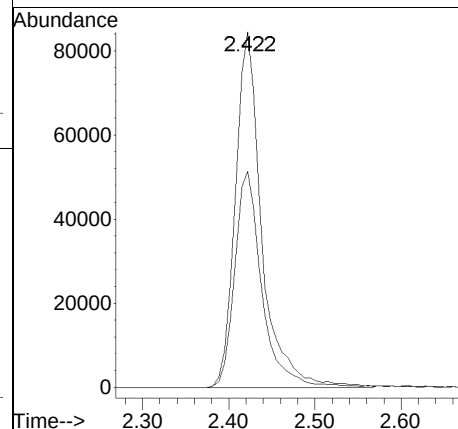
Tgt Ion	Ratio	Lower	Upper
64	100		
66	33.7	13.7	53.7

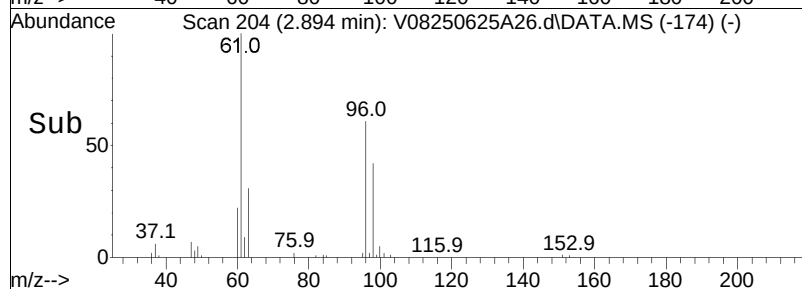
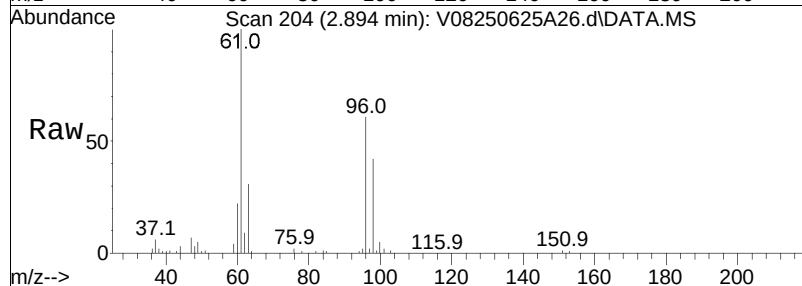
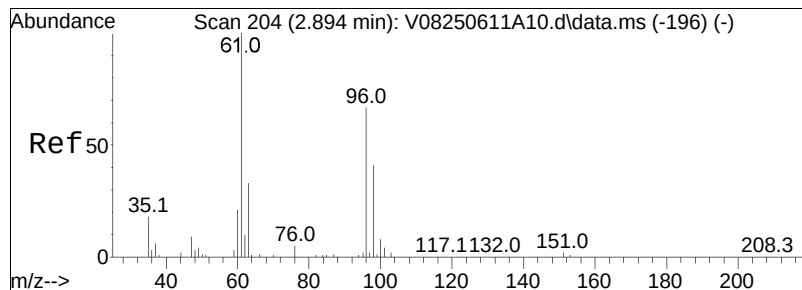




#7
 Trichlorofluoromethane
 Concen: 9.19 ug/L
 RT: 2.422 min Scan# 133
 Delta R.T. -0.000 min
 Lab File: V08250625A26.d
 Acq: 25 Jun 2025 4:44 pm

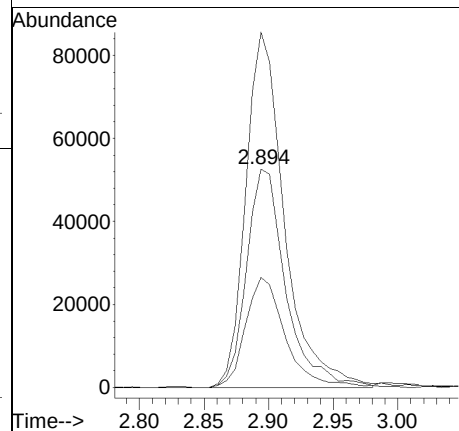
Tgt	Ion	Ratio	Resp	Lower	Upper
101	101	100	179787		
103	103	62.5	49.8	74.6	

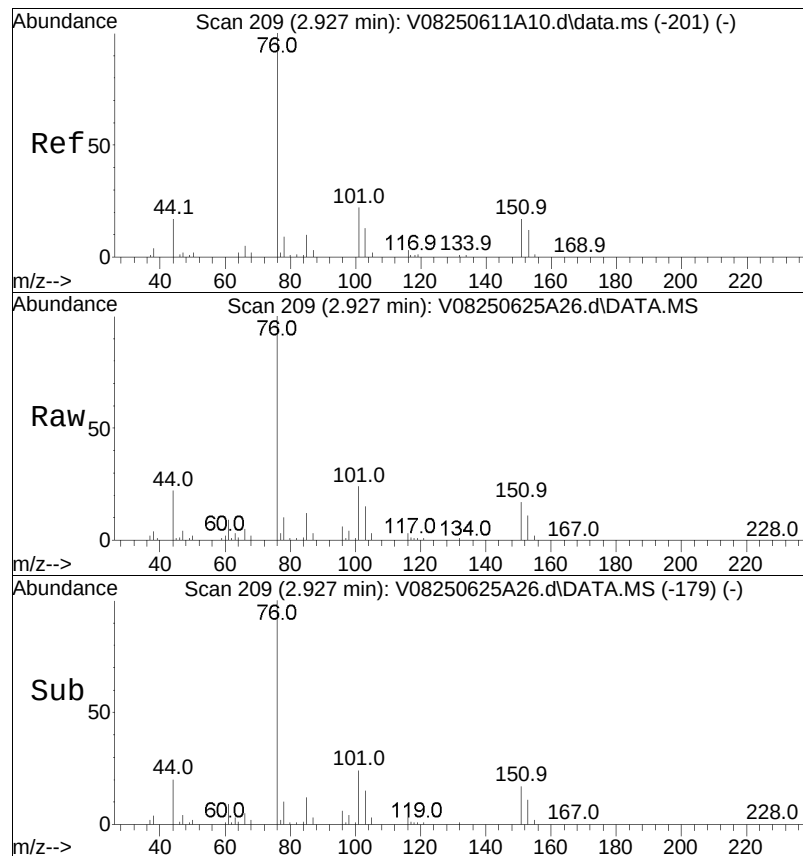




#10
 1,1-Dichloroethene
 Concen: 12.29 ug/L
 RT: 2.894 min Scan# 204
 Delta R.T. 0.000 min
 Lab File: V08250625A26.d
 Acq: 25 Jun 2025 4:44 pm

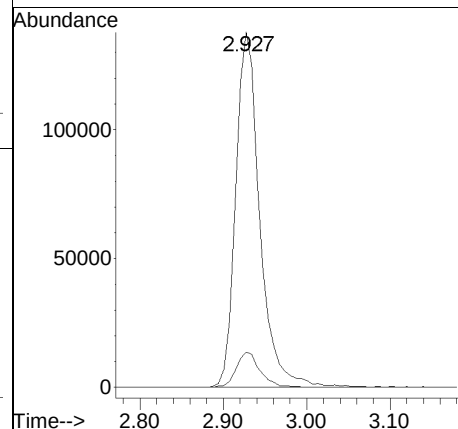
Tgt Ion:	96	Resp:	111186
Ion Ratio	Lower	Upper	
96	100		
61	162.8	129.4	194.2
63	51.2	39.0	58.6

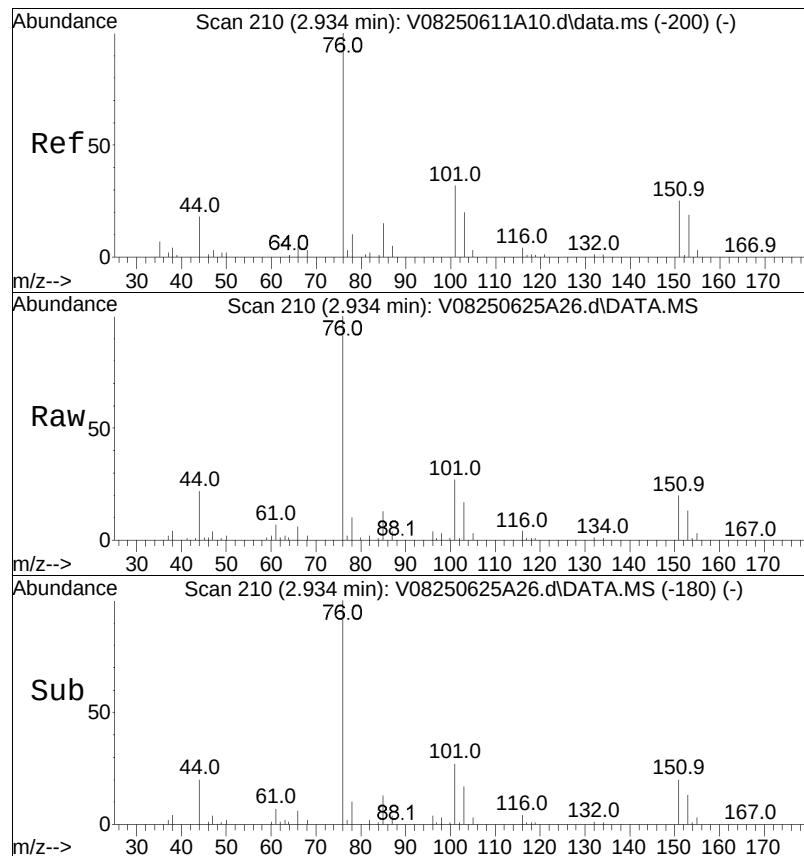




#11
Carbon disulfide
Concen: 10.17 ug/L
RT: 2.927 min Scan# 209
Delta R.T. 0.000 min
Lab File: V08250625A26.d
Acq: 25 Jun 2025 4:44 pm

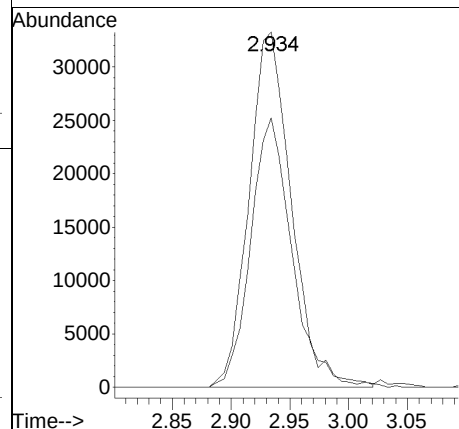
Tgt Ion	Ratio	Lower	Upper
76	100		
78	9.9	6.0	12.6

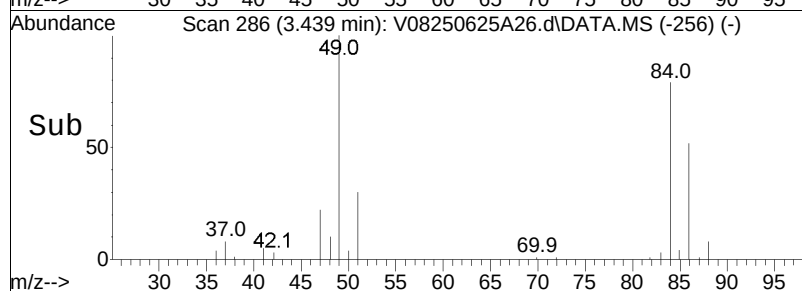
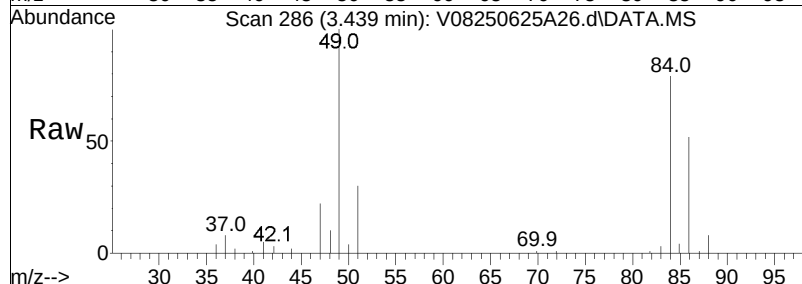
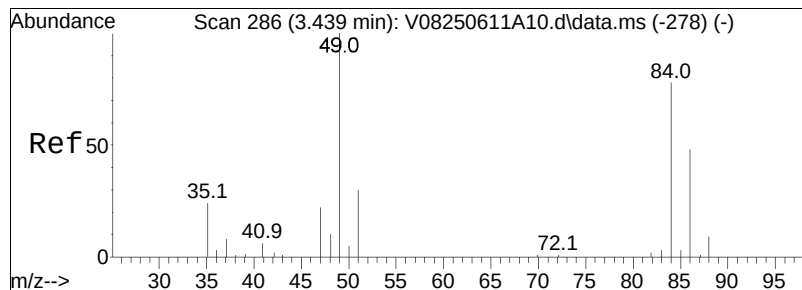




#12
 Freon-113
 Concen: 9.42 ug/L
 RT: 2.934 min Scan# 210
 Delta R.T. -0.000 min
 Lab File: V08250625A26.d
 Acq: 25 Jun 2025 4:44 pm

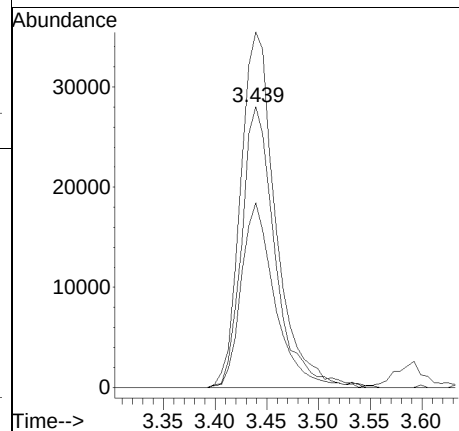
Tgt Ion	101	151	Ratio	Lower	Upper
Resp:	83695				
Ion	100				
Ratio	73.9				
Lower	63.5				
Upper	95.3				

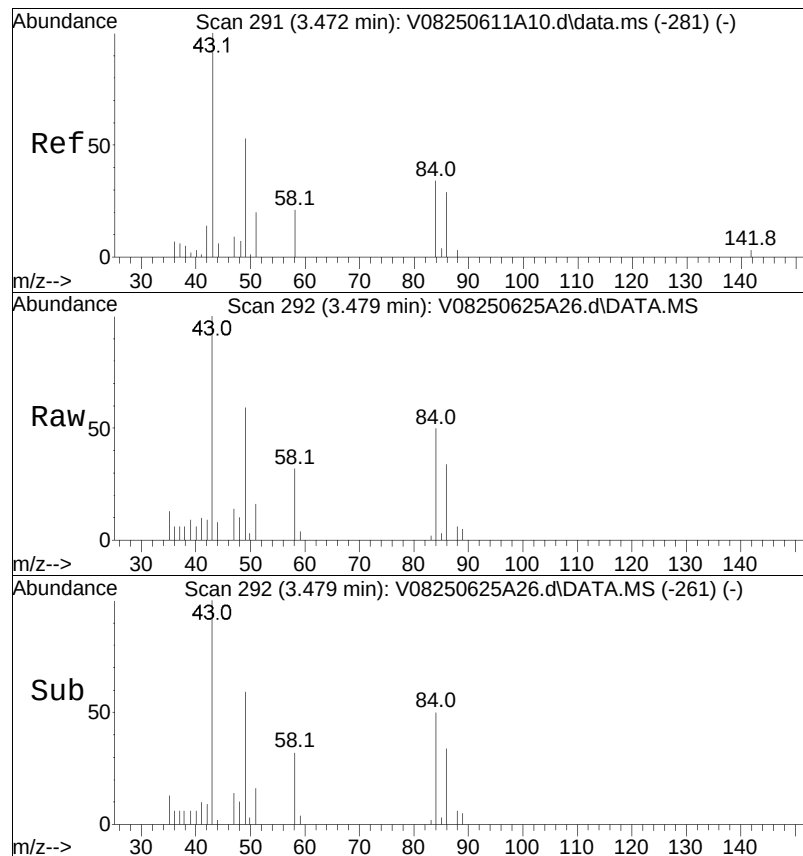




#15
Methylene chloride
Concen: 8.34 ug/L
RT: 3.439 min Scan# 286
Delta R.T. 0.000 min
Lab File: V08250625A26.d
Acq: 25 Jun 2025 4:44 pm

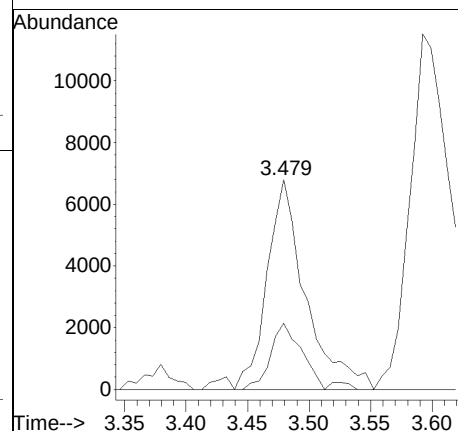
Tgt Ion	Ratio	Lower	Upper
84	100		
86	66.7	41.1	85.5
49	133.9	87.2	181.0

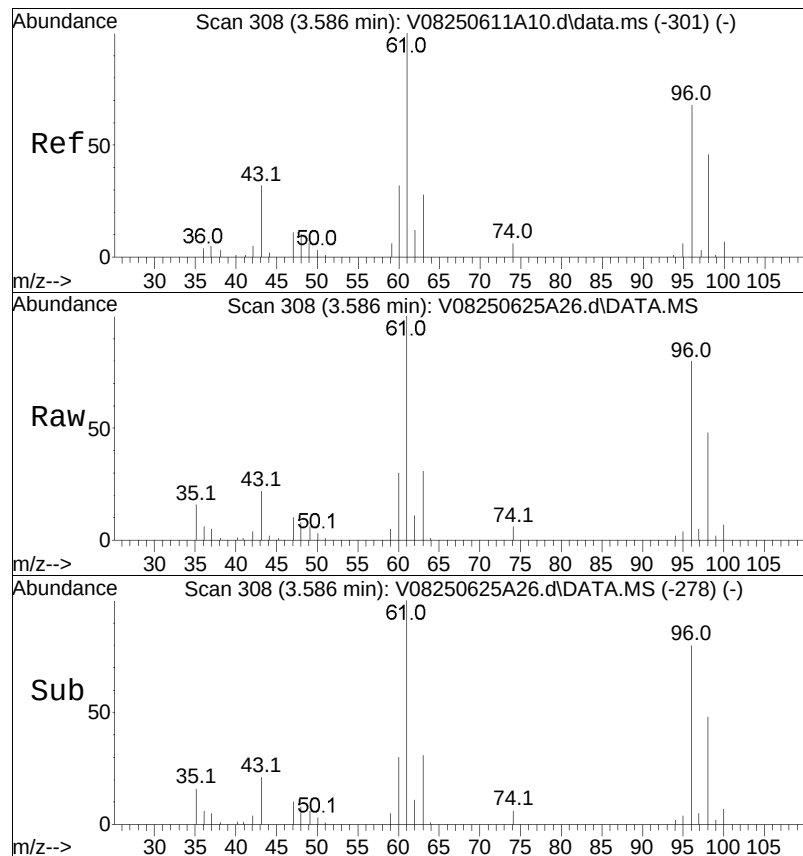




#17
 Acetone
 Concen: 11.25 ug/L
 RT: 3.479 min Scan# 292
 Delta R.T. 0.007 min
 Lab File: V08250625A26.d
 Acq: 25 Jun 2025 4:44 pm

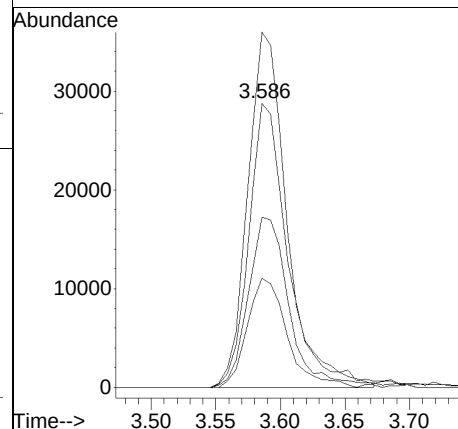
Tgt Ion:	43	58	Ratio	100	24.8	Resp:	15142	Lower	Upper
43	100								
58		24.8						21.6	32.4

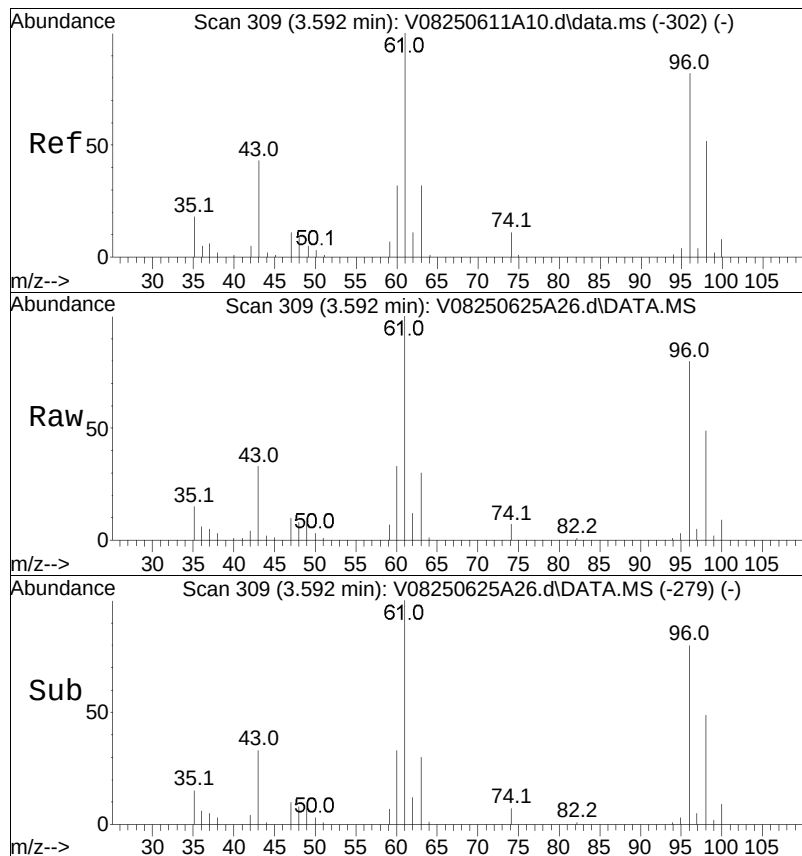




#18
 trans-1,2-Dichloroethene
 Concen: 8.95 ug/L
 RT: 3.586 min Scan# 308
 Delta R.T. -0.000 min
 Lab File: V08250625A26.d
 Acq: 25 Jun 2025 4:44 pm

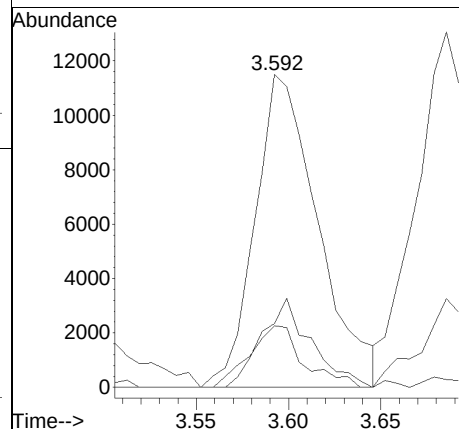
Tgt Ion:	96	Resp:	60518
Ion Ratio	Lower	Upper	
96	100		
61	127.9	90.2	187.4
98	62.4	42.2	87.6
63	39.0	27.6	57.4

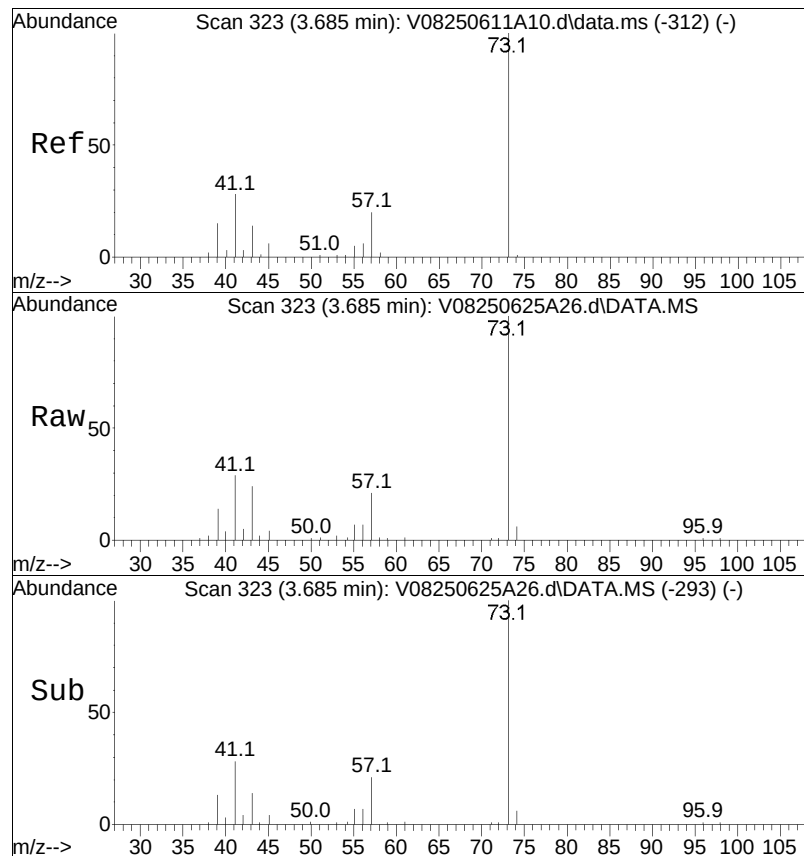




#19
Methyl acetate
Concen: 8.36 ug/L
RT: 3.592 min Scan# 309
Delta R.T. 0.000 min
Lab File: V08250625A26.d
Acq: 25 Jun 2025 4:44 pm

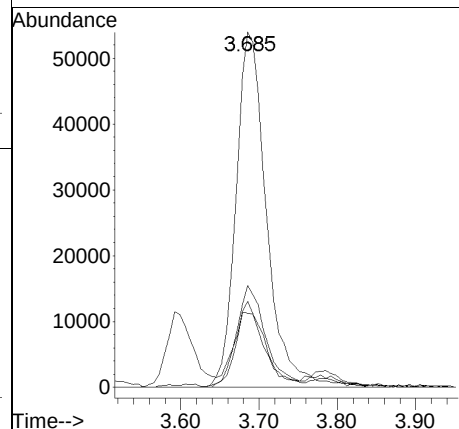
Tgt Ion:	43	Resp:	27320
Ion Ratio	Lower	Upper	
43	100		
74	22.4	17.8	26.8
59	17.0	14.7	22.1

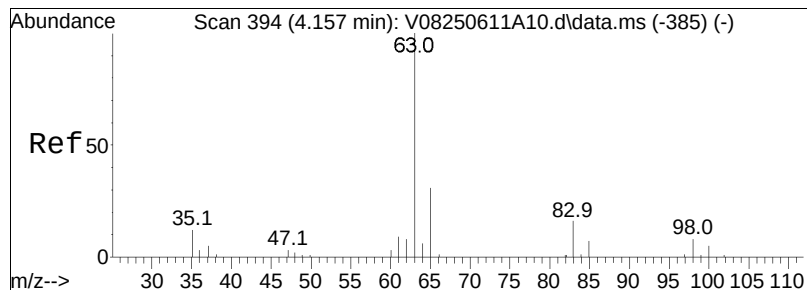




#20
Methyl tert-butyl ether
Concen: 9.04 ug/L
RT: 3.685 min Scan# 323
Delta R.T. 0.000 min
Lab File: V08250625A26.d
Acq: 25 Jun 2025 4:44 pm

Tgt Ion:	73	Resp:	147689
Ion Ratio	Lower	Upper	
73	100		
57	21.3	13.6	28.2
43	23.6	15.7	32.5
41	27.0	18.0	37.4





#23

1,1-Dichloroethane

Concen: 11.66 ug/L

RT: 4.158 min Scan# 394

Delta R.T. 0.001 min

Lab File: V08250625A26.d

Acq: 25 Jun 2025 4:44 pm

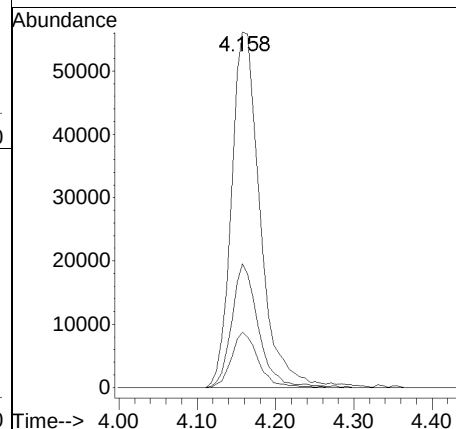
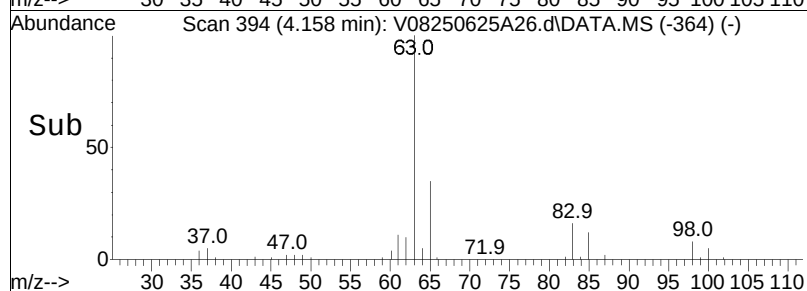
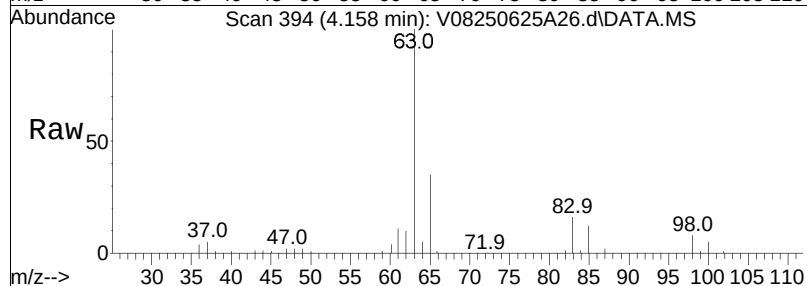
Tgt Ion: 63 Resp: 143677

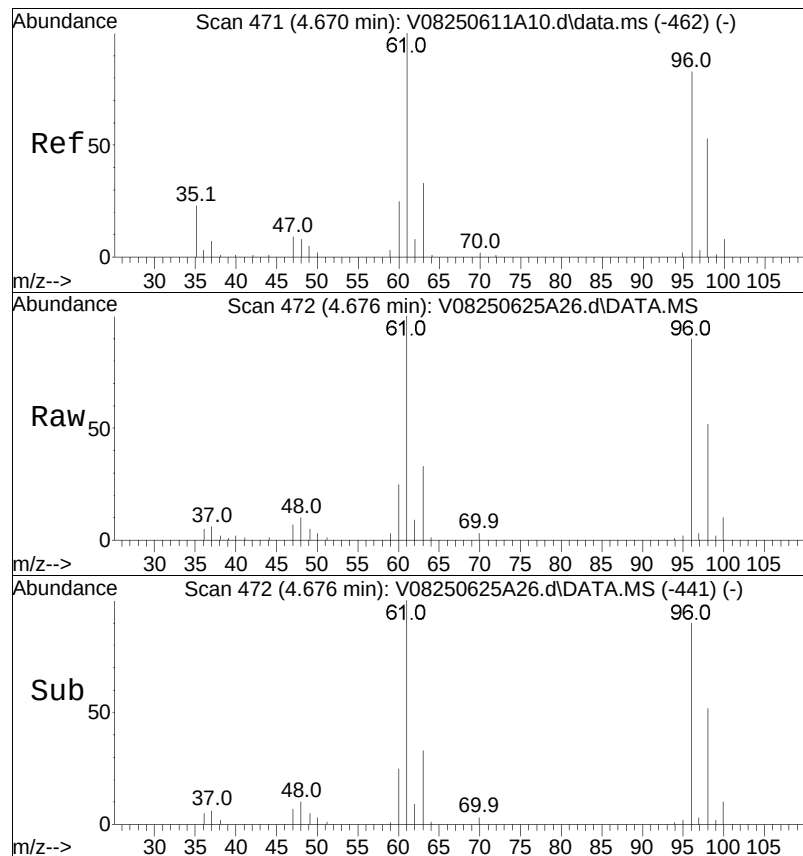
Ion Ratio Lower Upper

63 100

65 31.6 12.4 52.4

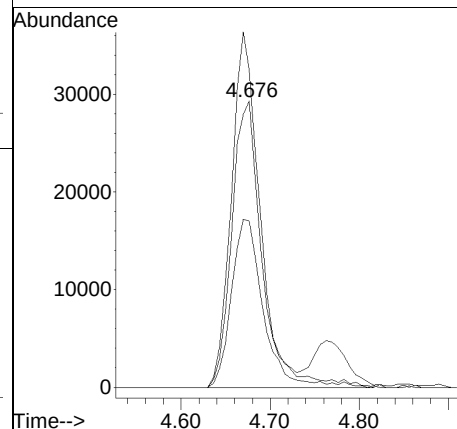
83 14.4 0.0 33.8

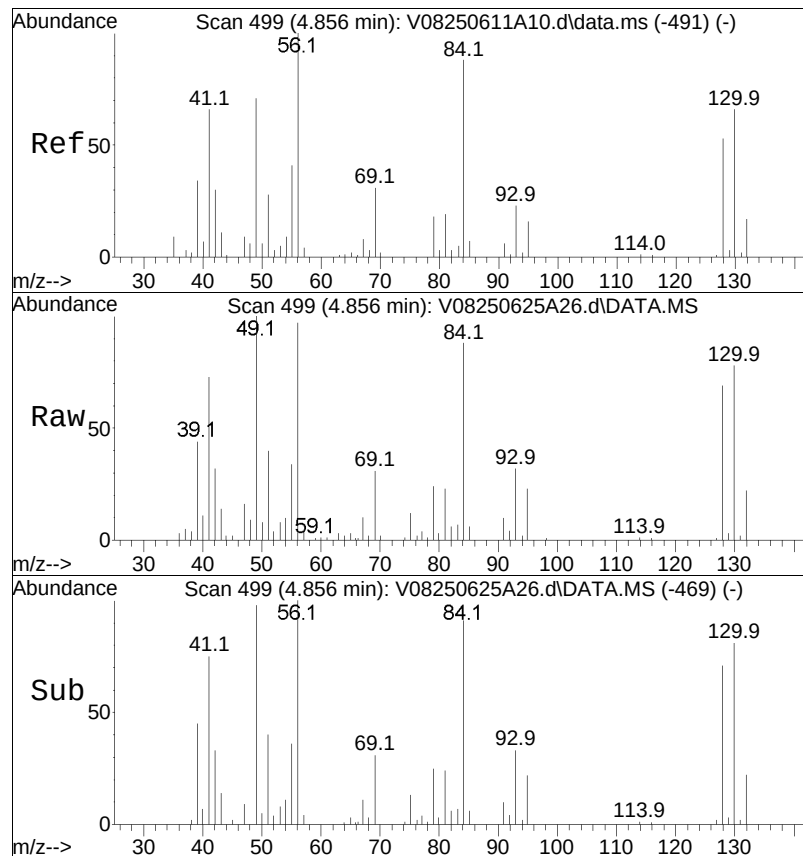




#28
 cis-1,2-Dichloroethene
 Concen: 8.98 ug/L
 RT: 4.676 min Scan# 472
 Delta R.T. 0.006 min
 Lab File: V08250625A26.d
 Acq: 25 Jun 2025 4:44 pm

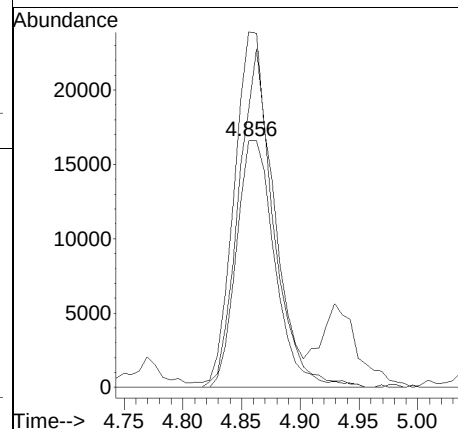
Tgt Ion	Ratio	Lower	Upper
96	100		
61	114.8	93.7	140.5
98	61.0	50.3	75.5

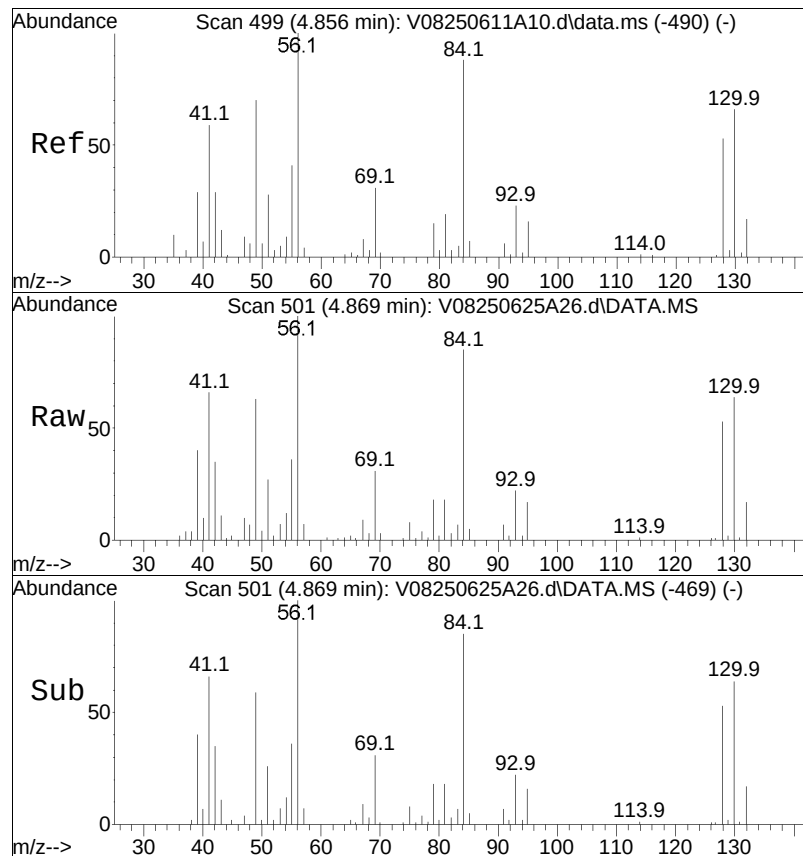




#30
 Bromochloromethane
 Concen: 8.51 ug/L
 RT: 4.856 min Scan# 499
 Delta R.T. -0.000 min
 Lab File: V08250625A26.d
 Acq: 25 Jun 2025 4:44 pm

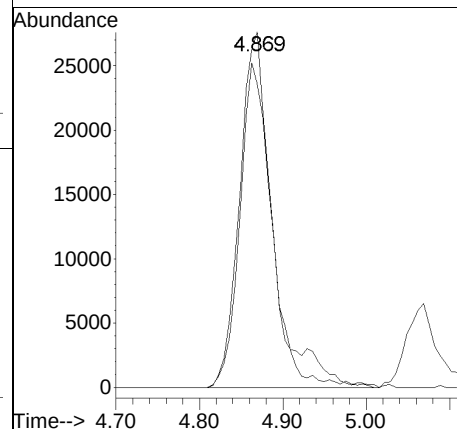
Tgt	Ion:128	Resp:	38077
Ion	Ratio	Lower	Upper
128	100		
49	144.3	119.6	179.4
130	124.5	100.7	151.1

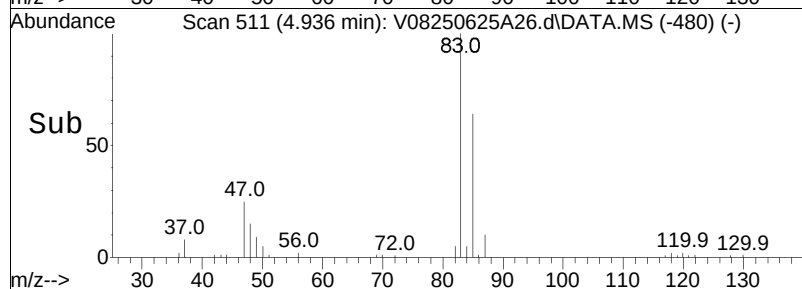
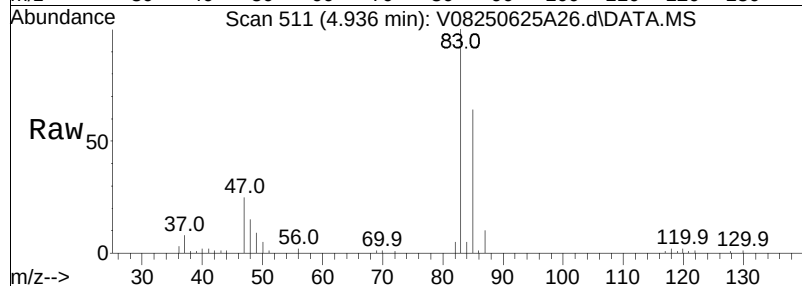
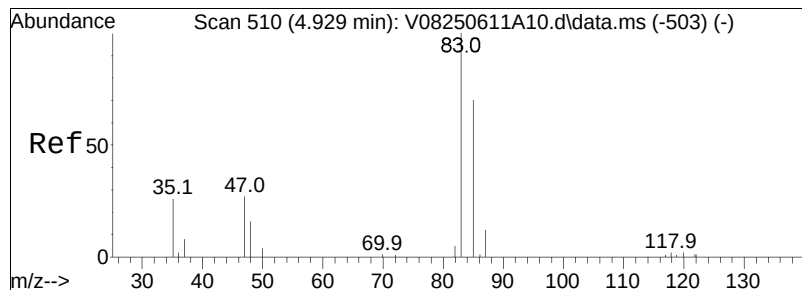




#31
Cyclohexane
Concen: 7.26 ug/L
RT: 4.869 min Scan# 501
Delta R.T. 0.013 min
Lab File: V08250625A26.d
Acq: 25 Jun 2025 4:44 pm

Tgt	Ion	Ratio	Lower	Upper
56	100			
84	90.4	55.3	114.8	





#32

Chloroform

Concen: 8.61 ug/L

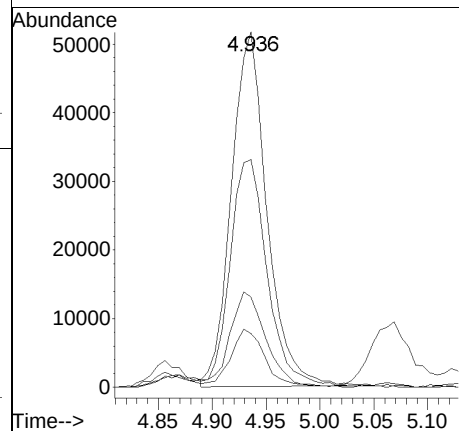
RT: 4.936 min Scan# 511

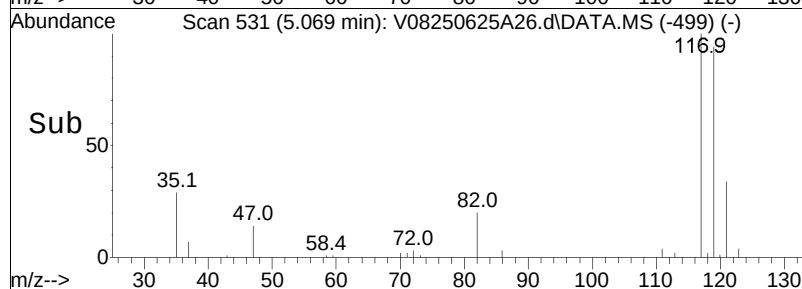
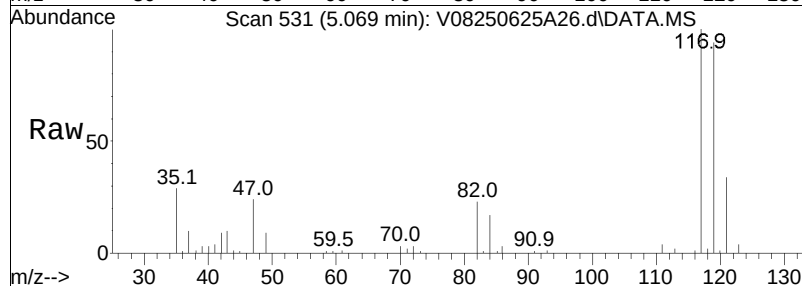
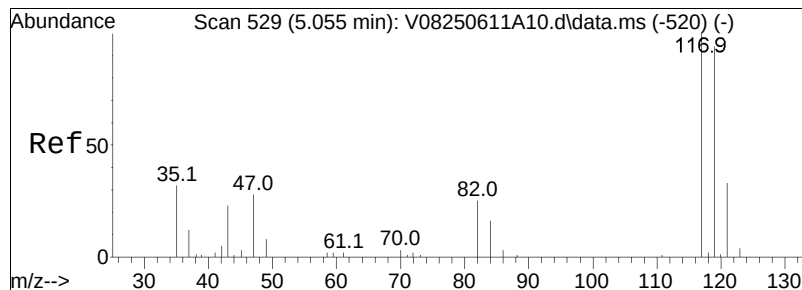
Delta R.T. 0.007 min

Lab File: V08250625A26.d

Acq: 25 Jun 2025 4:44 pm

Tgt Ion:	83	Resp:	118779
Ion Ratio	Lower	Upper	
83	100		
85	67.0	42.1	87.3
47	26.5	17.7	36.7
48	16.2	9.1	18.9





#34

Carbon tetrachloride

Concen: 8.92 ug/L

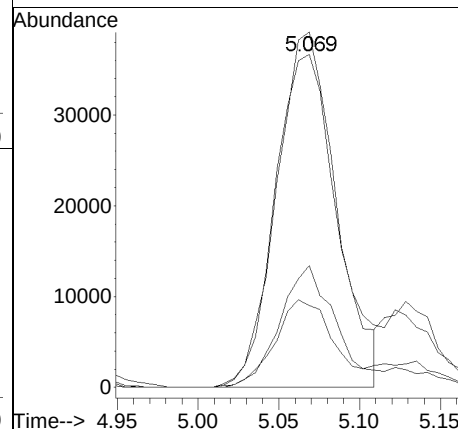
RT: 5.069 min Scan# 531

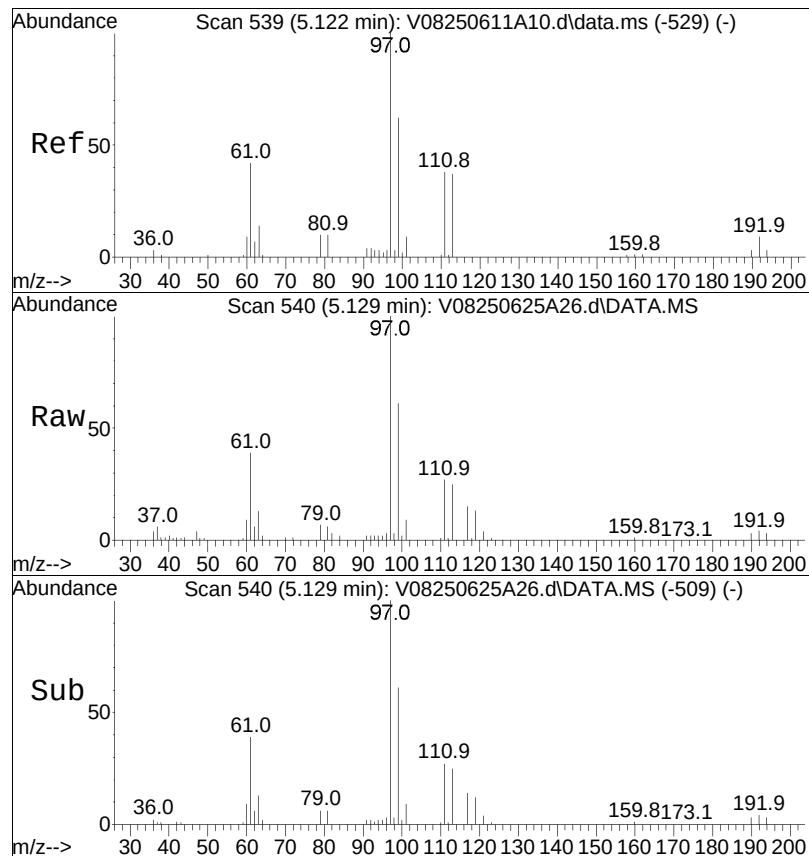
Delta R.T. 0.014 min

Lab File: V08250625A26.d

Acq: 25 Jun 2025 4:44 pm

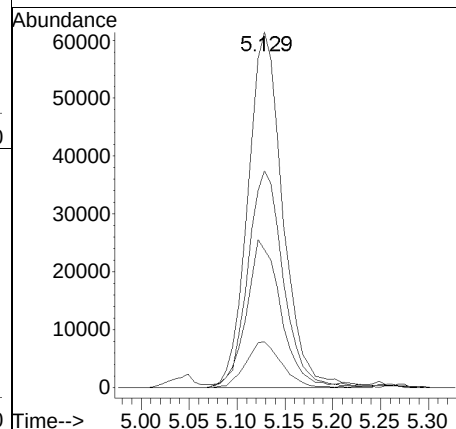
Tgt	Ion:117	Resp:	100257
Ion	Ratio	Lower	Upper
117	100		
119	100.7	61.4	127.6
121	31.1	20.5	42.7
82	25.8	16.3	33.8

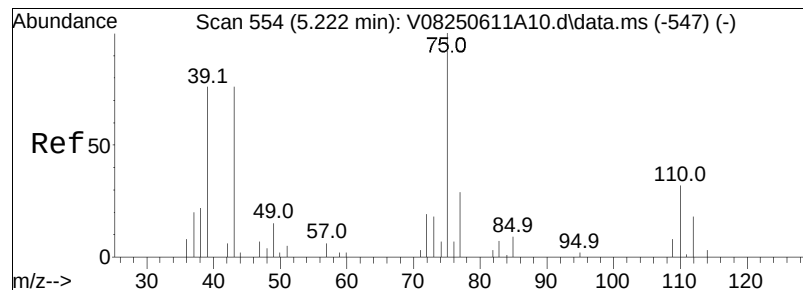




#37
 1,1,1-Trichloroethane
 Concen: 13.65 ug/L
 RT: 5.129 min Scan# 540
 Delta R.T. 0.007 min
 Lab File: V08250625A26.d
 Acq: 25 Jun 2025 4:44 pm

Tgt Ion:	97	Resp:	156790
Ion Ratio	Lower	Upper	
97	100		
99	61.5	40.2	83.4
61	41.3	28.6	59.4
63	13.0	9.2	19.2





#39

2-Butanone

Concen: 9.21 ug/L

RT: 5.222 min Scan# 554

Delta R.T. -0.000 min

Lab File: V08250625A26.d

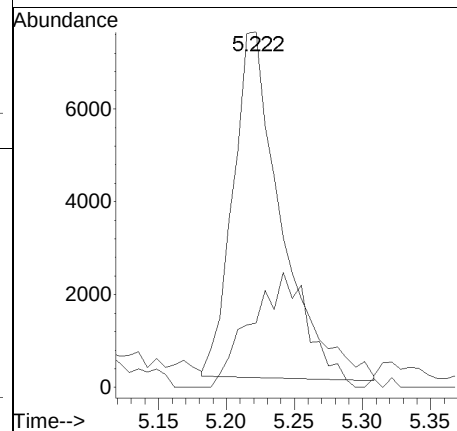
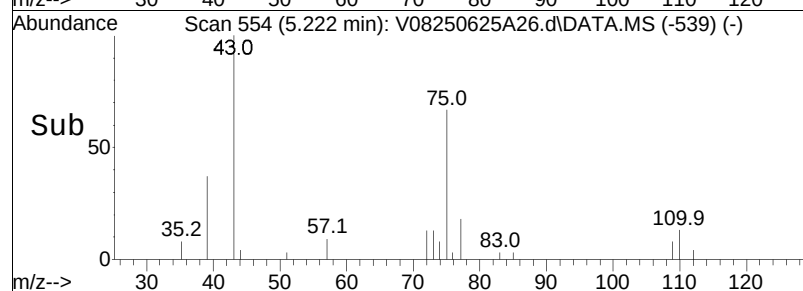
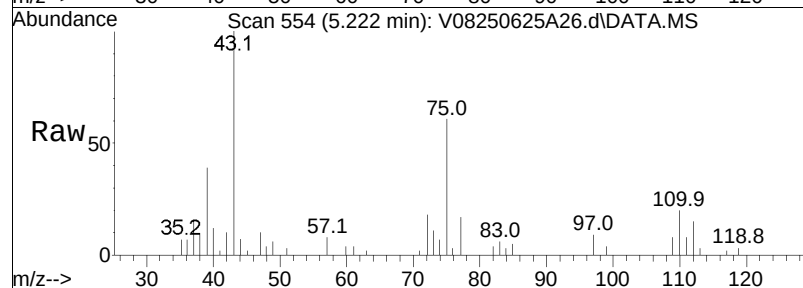
Acq: 25 Jun 2025 4:44 pm

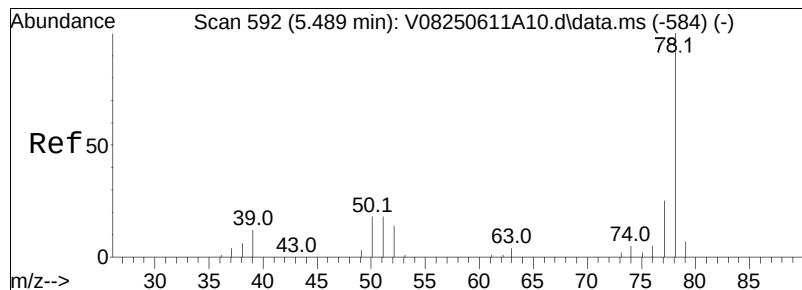
Tgt Ion: 43 Resp: 18546

Ion Ratio Lower Upper

43 100

72 39.6 38.2 57.4





#41

Benzene

Concen: 9.06 ug/L

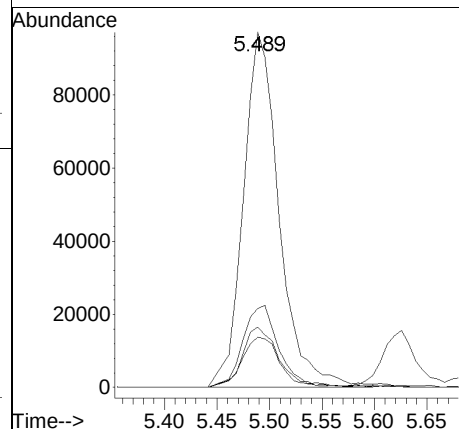
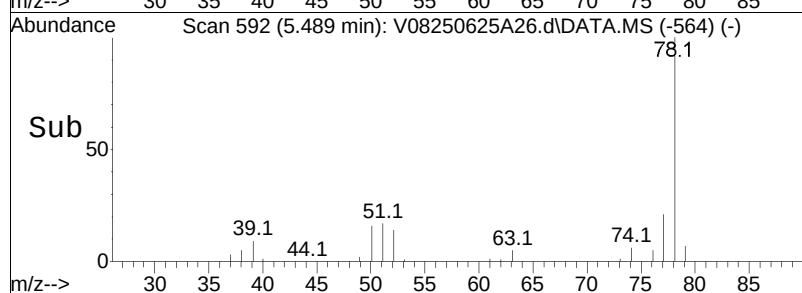
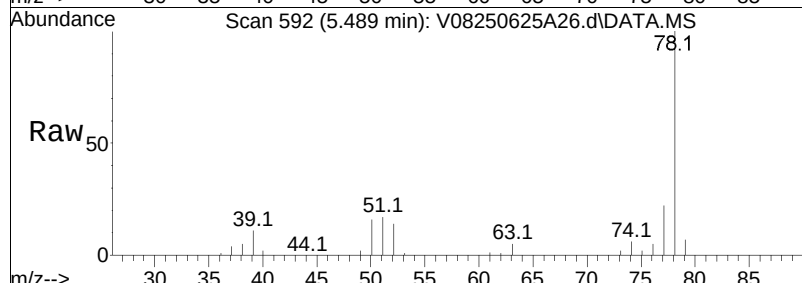
RT: 5.489 min Scan# 592

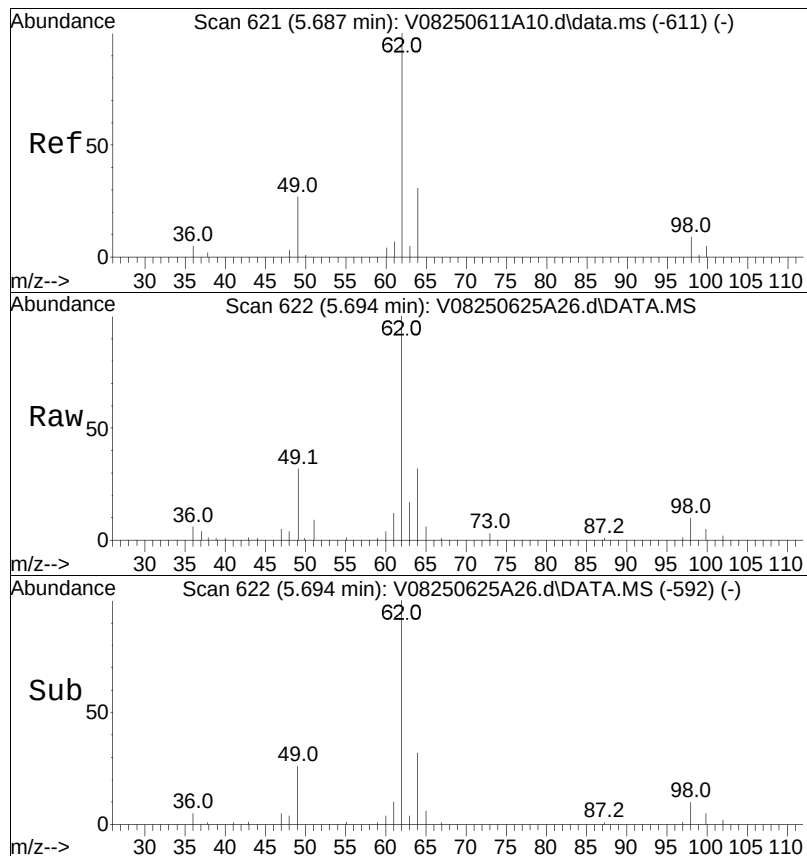
Delta R.T. -0.000 min

Lab File: V08250625A26.d

Acq: 25 Jun 2025 4:44 pm

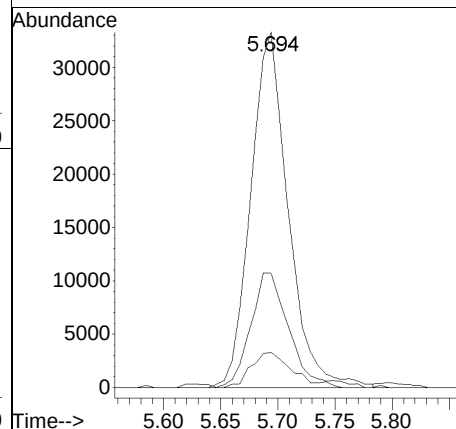
Tgt Ion:	78	Resp:	247263
Ion	Ratio	Lower	Upper
78	100		
77	23.7	15.7	32.7
51	17.5	12.4	25.7
52	15.2	10.6	22.0

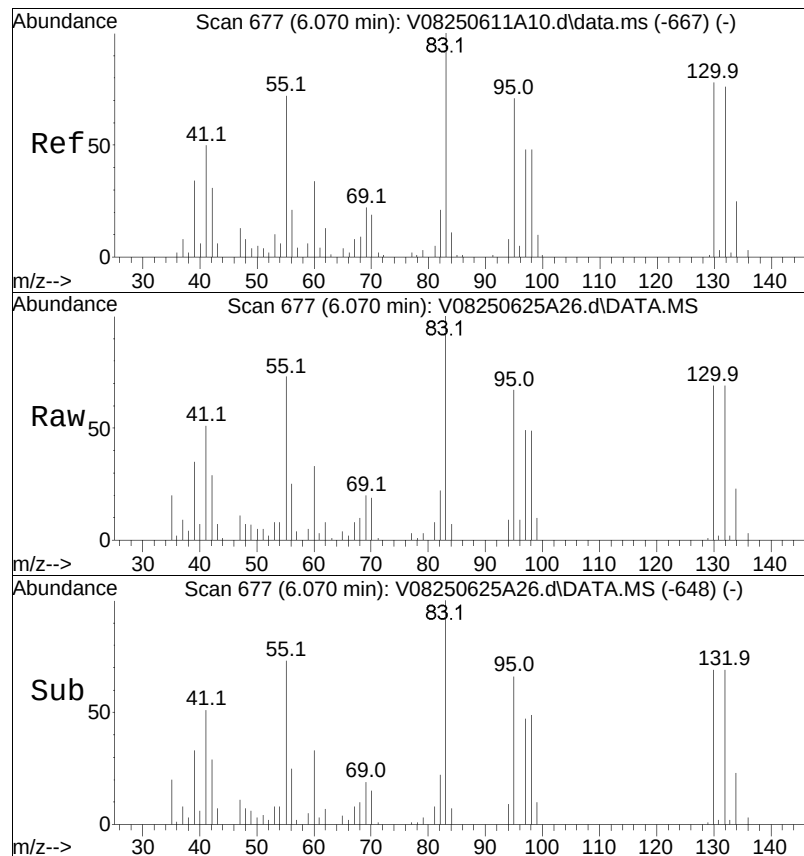




#44
 1,2-Dichloroethane
 Concen: 8.97 ug/L
 RT: 5.694 min Scan# 622
 Delta R.T. 0.007 min
 Lab File: V08250625A26.d
 Acq: 25 Jun 2025 4:44 pm

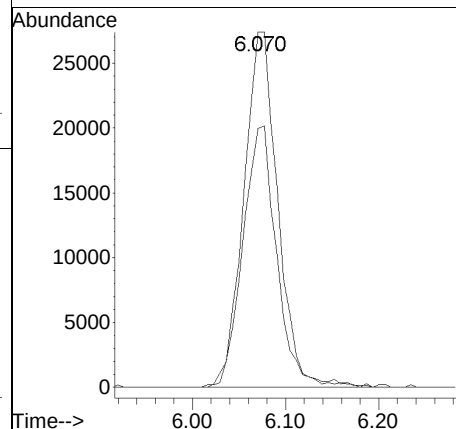
Tgt Ion	Ratio	Lower	Upper
62	100		
64	33.3	11.3	51.3
98	10.9	0.0	29.3

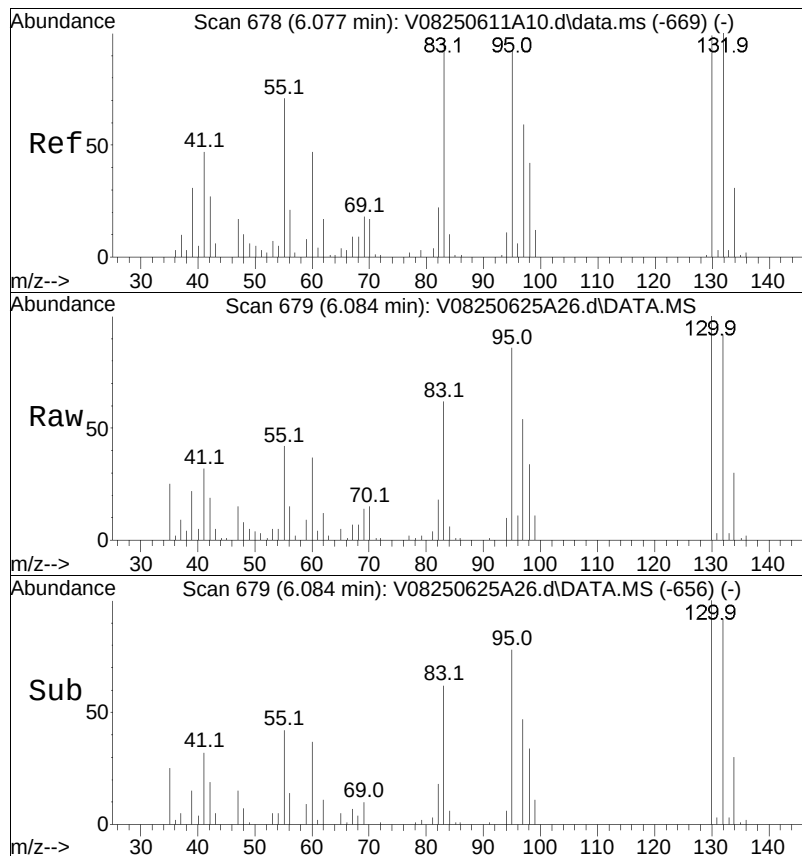




#47
Methyl cyclohexane
Concen: 6.85 ug/L
RT: 6.070 min Scan# 677
Delta R.T. 0.000 min
Lab File: V08250625A26.d
Acq: 25 Jun 2025 4:44 pm

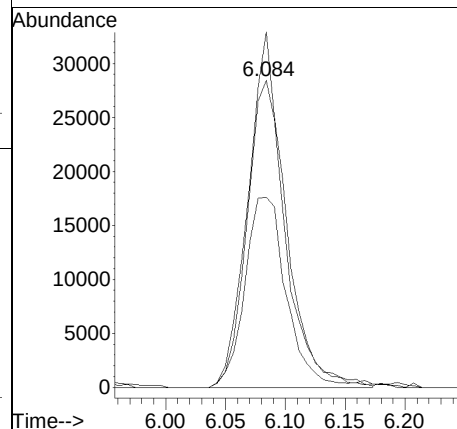
Tgt	Ion	Ratio	Lower	Upper
83	100			
55	73.0	62.4	93.6	

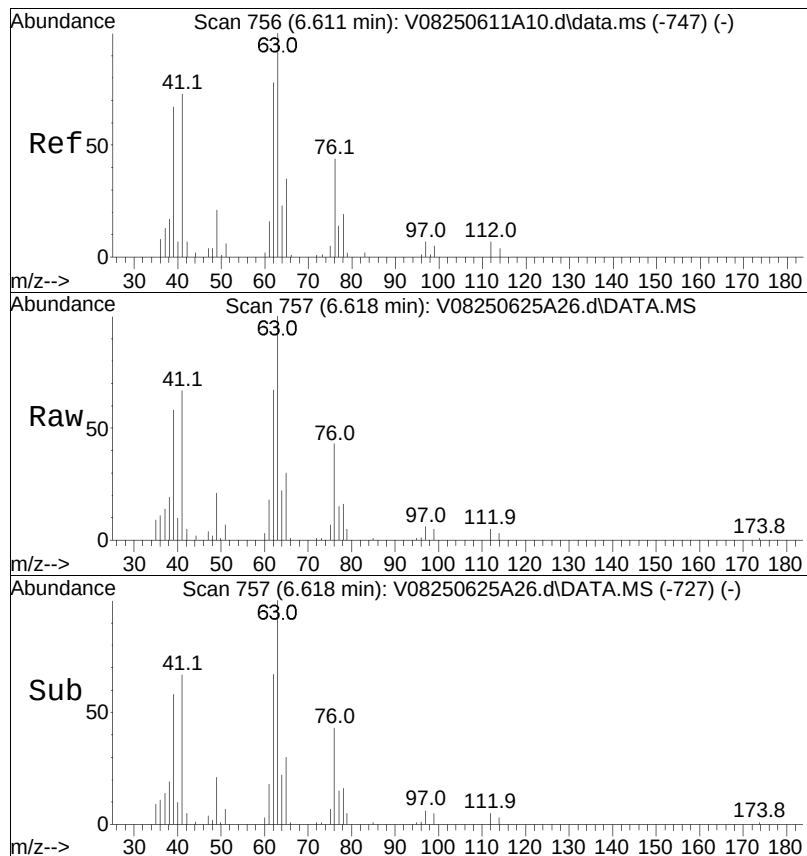




#48
 Trichloroethene
 Concen: 8.63 ug/L
 RT: 6.084 min Scan# 679
 Delta R.T. 0.007 min
 Lab File: V08250625A26.d
 Acq: 25 Jun 2025 4:44 pm

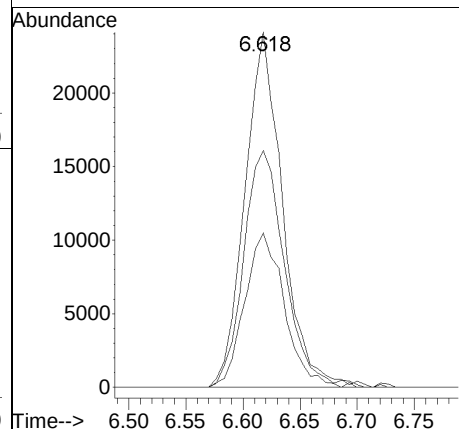
Tgt Ion:	95	Resp:	64894
Ion Ratio	Lower	Upper	
95	100		
97	66.2	54.7	82.1
130	110.6	84.7	127.1

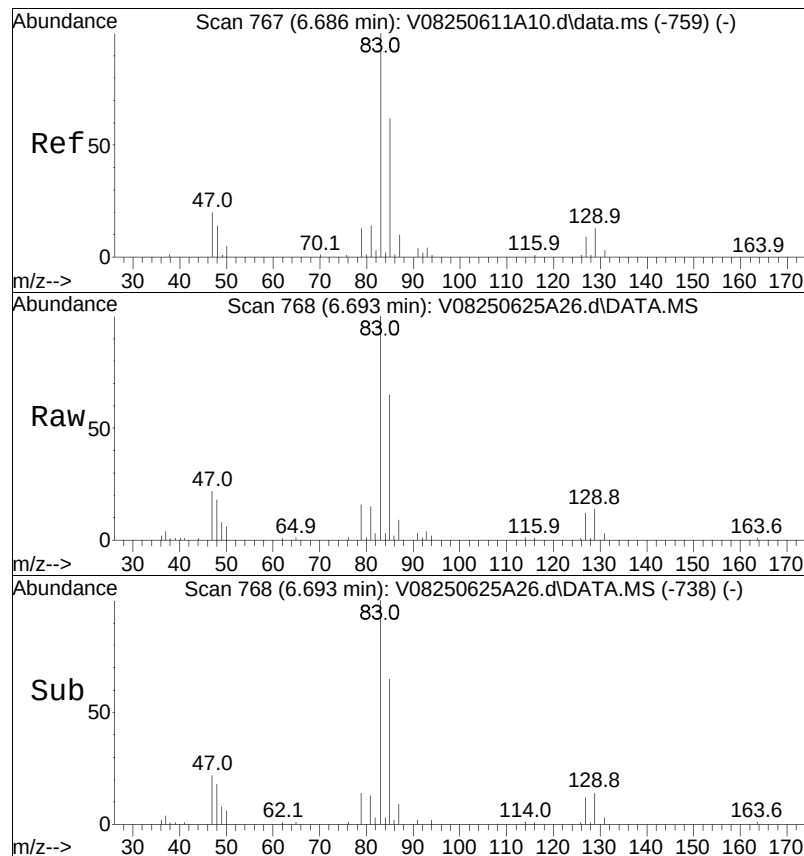




#51
 1,2-Dichloropropane
 Concen: 8.55 ug/L
 RT: 6.618 min Scan# 757
 Delta R.T. 0.007 min
 Lab File: V08250625A26.d
 Acq: 25 Jun 2025 4:44 pm

Tgt Ion	Ratio	Lower	Upper
63	100		
62	72.7	58.2	87.4
76	45.8	35.9	53.9





#54

Bromodichloromethane

Concen: 9.23 ug/L

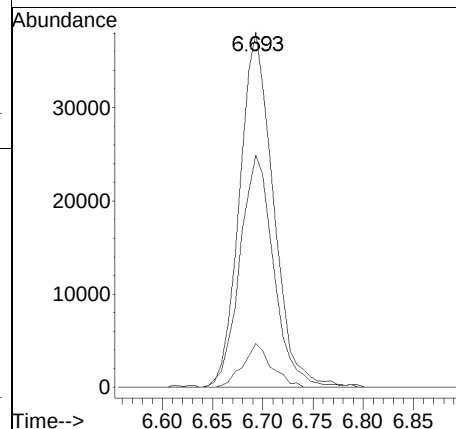
RT: 6.693 min Scan# 768

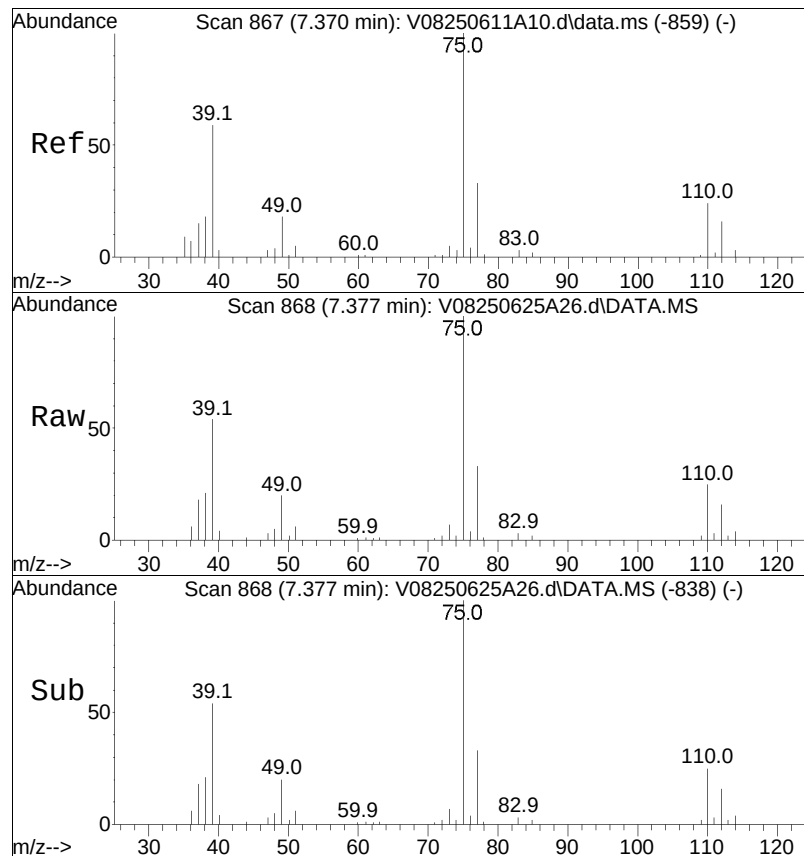
Delta R.T. 0.007 min

Lab File: V08250625A26.d

Acq: 25 Jun 2025 4:44 pm

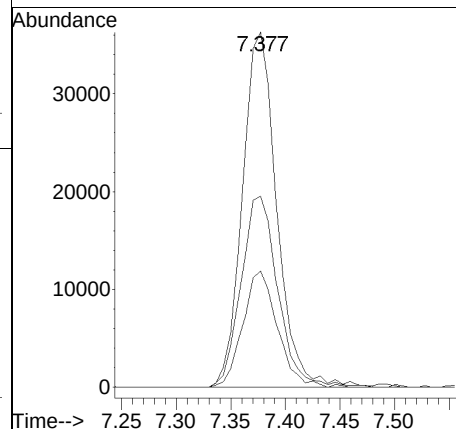
Tgt	Ion: 83	Resp:	89168
Ion	Ratio	Lower	Upper
83	100		
85	65.9	53.0	79.6
127	10.6	7.8	11.6

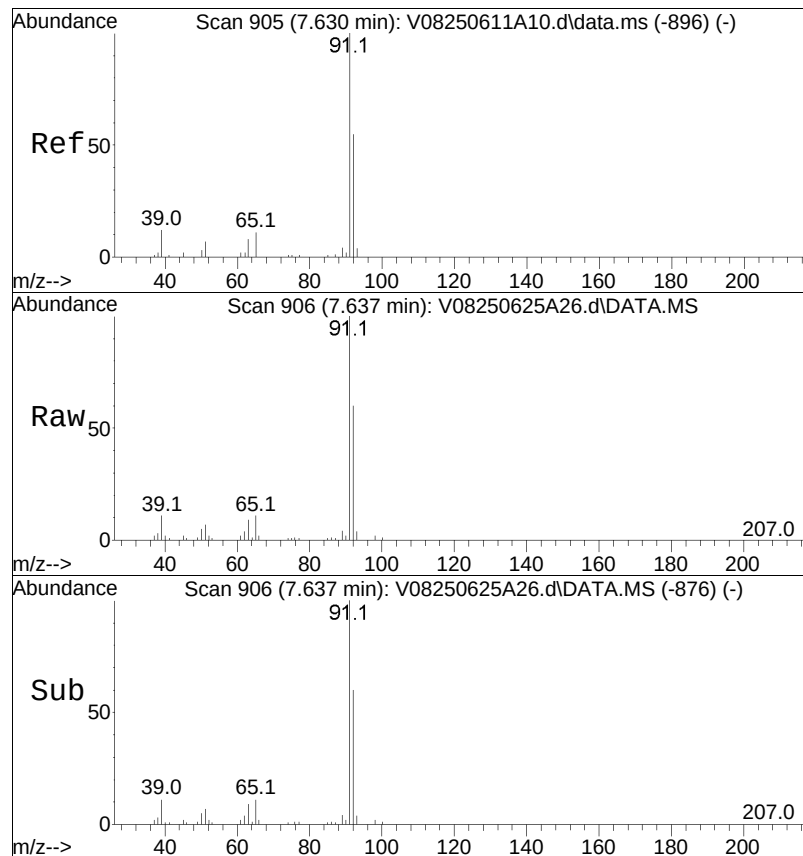




#58
 cis-1,3-Dichloropropene
 Concen: 8.20 ug/L
 RT: 7.377 min Scan# 868
 Delta R.T. 0.007 min
 Lab File: V08250625A26.d
 Acq: 25 Jun 2025 4:44 pm

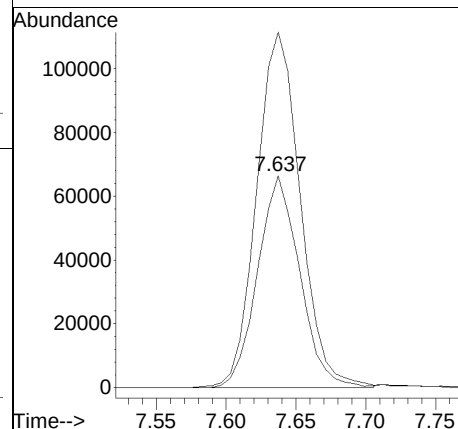
Tgt	Ion: 75	Resp:	79783
Ion	Ratio	Lower	Upper
75	100		
77	32.8	25.5	38.3
39	57.5	46.9	70.3

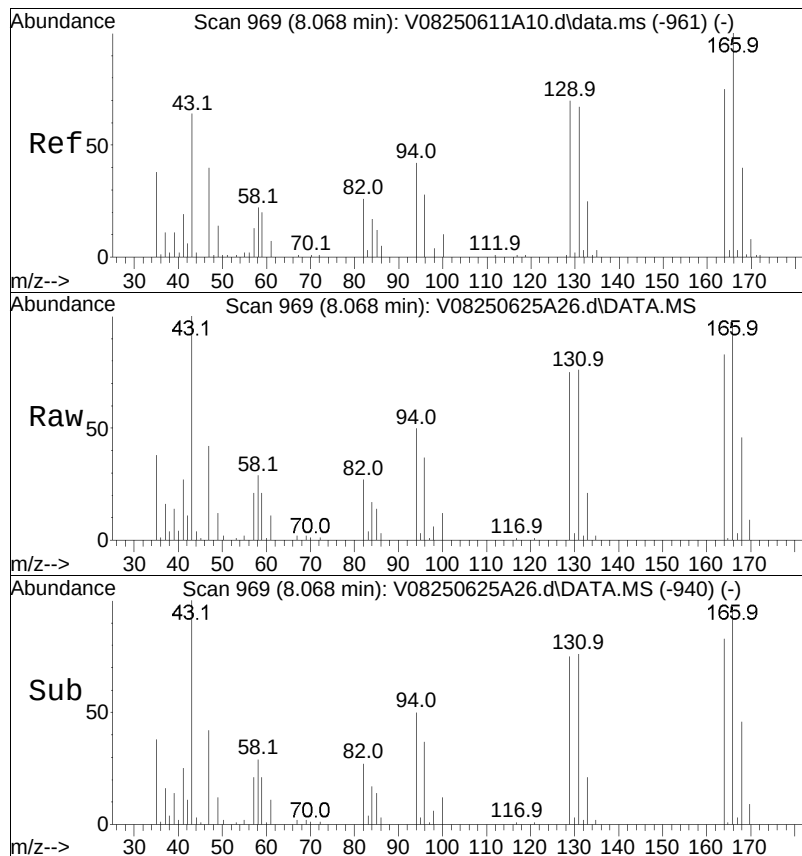




#61
 Toluene
 Concen: 9.11 ug/L
 RT: 7.637 min Scan# 906
 Delta R.T. 0.007 min
 Lab File: V08250625A26.d
 Acq: 25 Jun 2025 4:44 pm

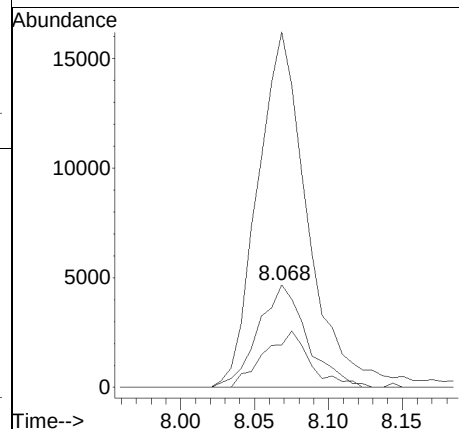
Tgt Ion	Ratio	Lower	Upper
92	100		
91	175.0	140.8	211.2

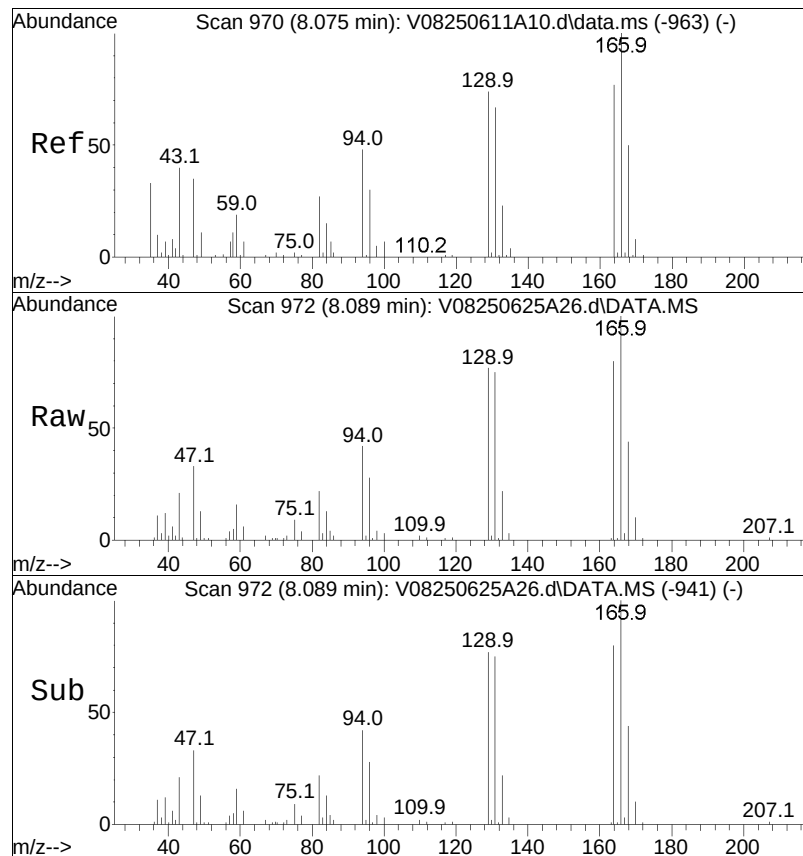




#62
 4-Methyl-2-pentanone
 Concen: 8.61 ug/L
 RT: 8.068 min Scan# 969
 Delta R.T. 0.000 min
 Lab File: V08250625A26.d
 Acq: 25 Jun 2025 4:44 pm

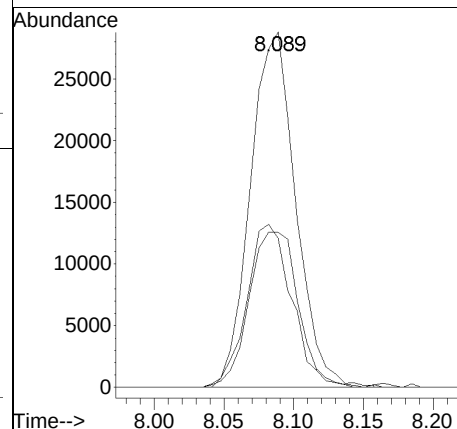
Tgt	Ion	Resp	Lower	Upper
58	100			
100	51.9	33.6	50.4#	
43	363.3	271.0	406.6	

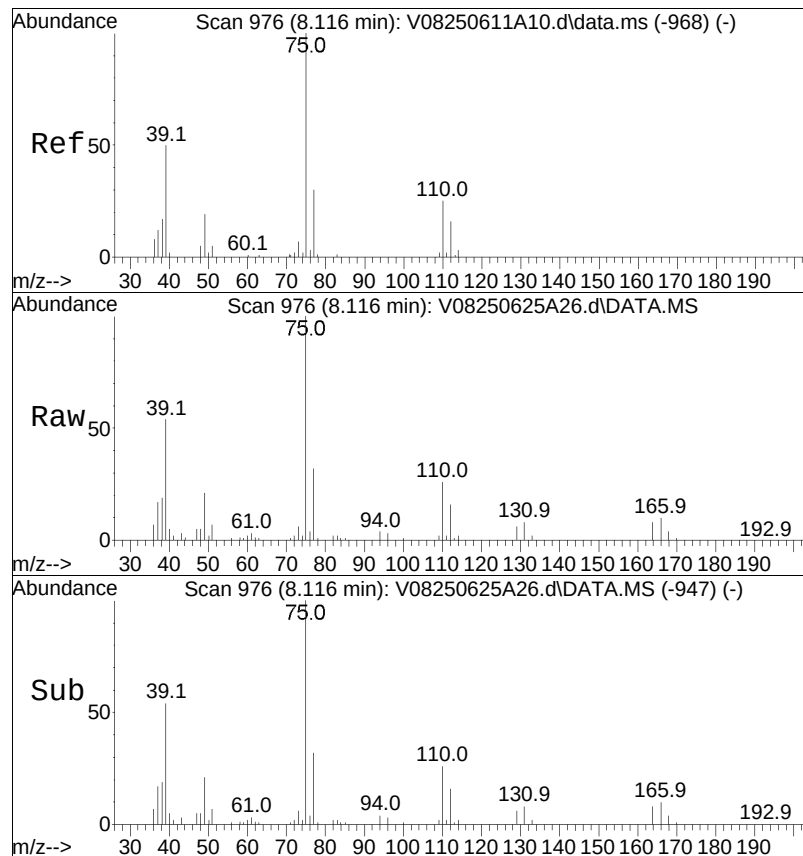




#63
 Tetrachloroethene
 Concen: 9.06 ug/L
 RT: 8.089 min Scan# 972
 Delta R.T. 0.014 min
 Lab File: V08250625A26.d
 Acq: 25 Jun 2025 4:44 pm

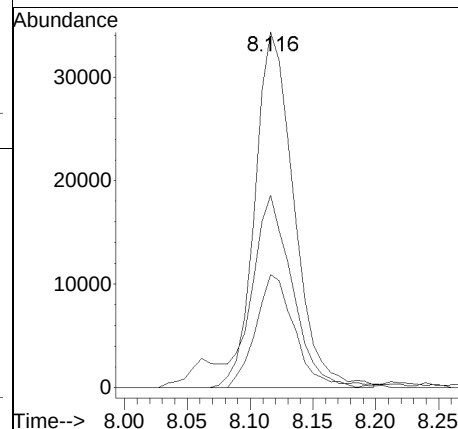
Tgt	Ion:166	Resp:	65052
Ion	Ratio	Lower	Upper
166	100		
168	47.4	26.2	66.2
94	45.5	23.6	63.6

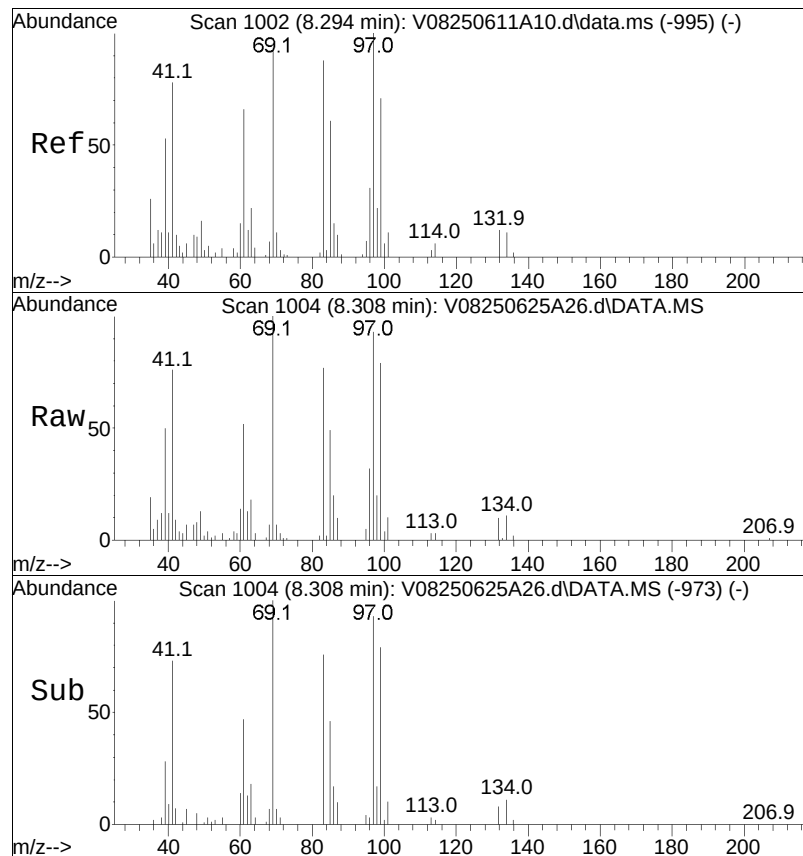




#65
 trans-1,3-Dichloropropene
 Concen: 9.76 ug/L
 RT: 8.116 min Scan# 976
 Delta R.T. 0.000 min
 Lab File: V08250625A26.d
 Acq: 25 Jun 2025 4:44 pm

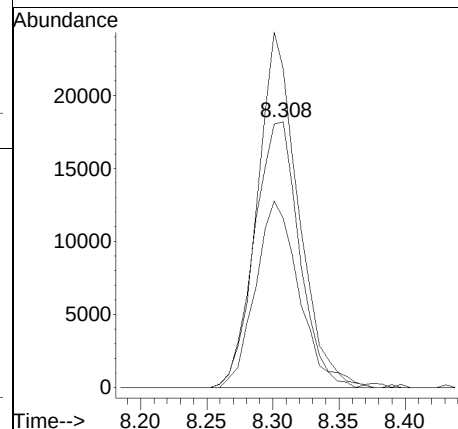
Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.4	9.8	49.8
39	52.5	45.2	85.2

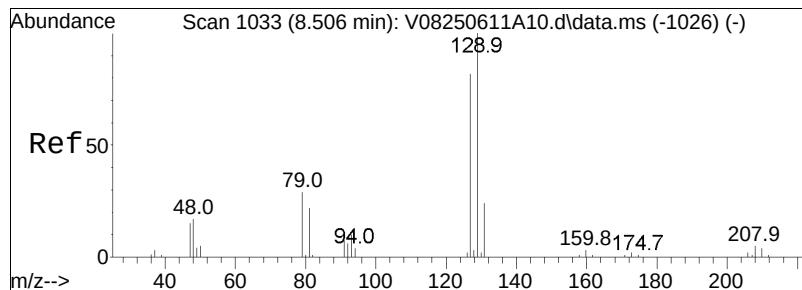




#68
 1,1,2-Trichloroethane
 Concen: 10.09 ug/L
 RT: 8.308 min Scan# 1004
 Delta R.T. 0.014 min
 Lab File: V08250625A26.d
 Acq: 25 Jun 2025 4:44 pm

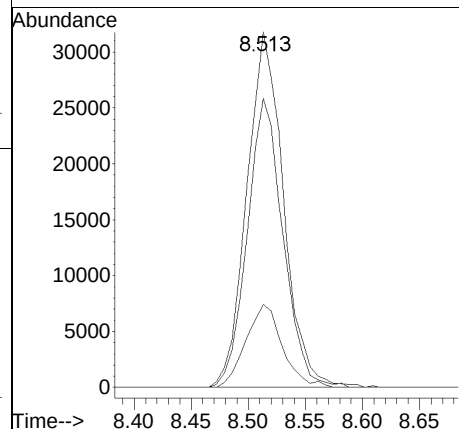
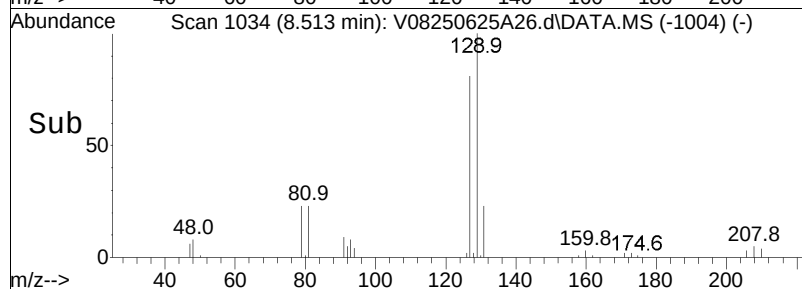
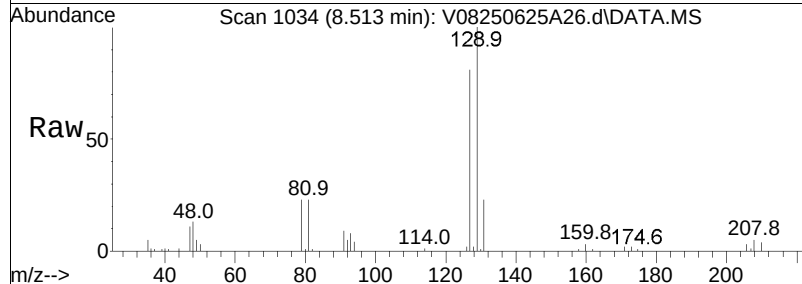
Tgt Ion:	83	Resp:	43375
Ion Ratio	Lower	Upper	
83	100		
97	120.7	98.2	138.2
85	66.9	49.9	89.9

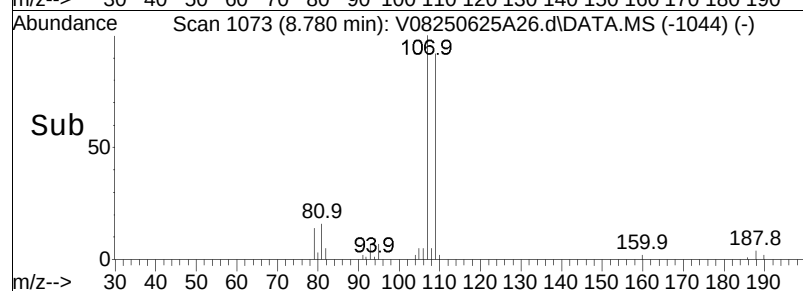
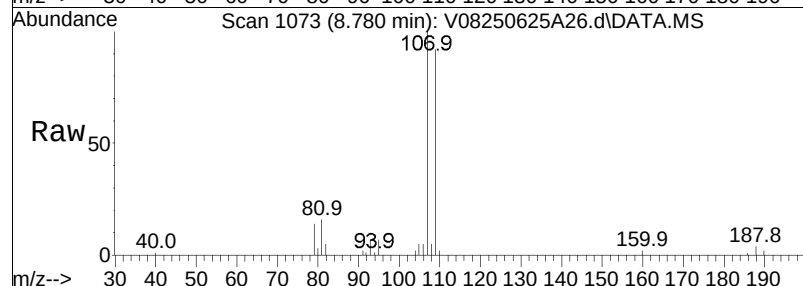
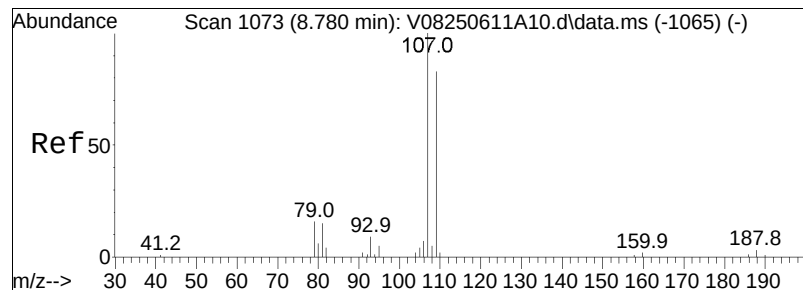




#69
 Chlorodibromomethane
 Concen: 9.97 ug/L
 RT: 8.513 min Scan# 1034
 Delta R.T. 0.007 min
 Lab File: V08250625A26.d
 Acq: 25 Jun 2025 4:44 pm

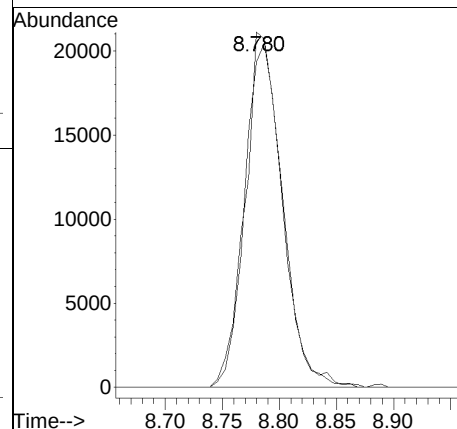
Tgt Ion	Ratio	Lower	Upper
129	100		
81	23.3	3.3	43.3
127	79.4	58.2	98.2

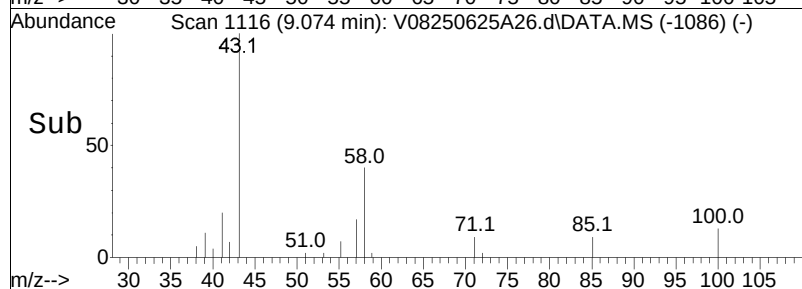
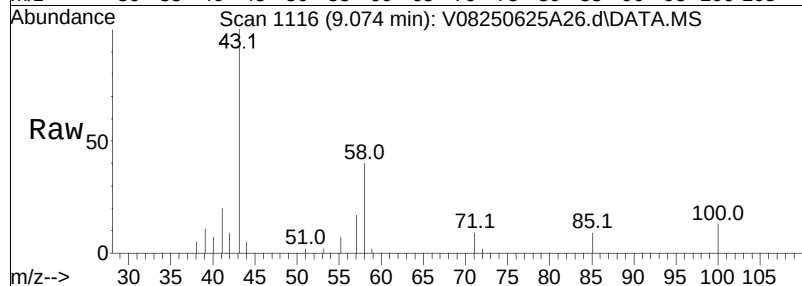
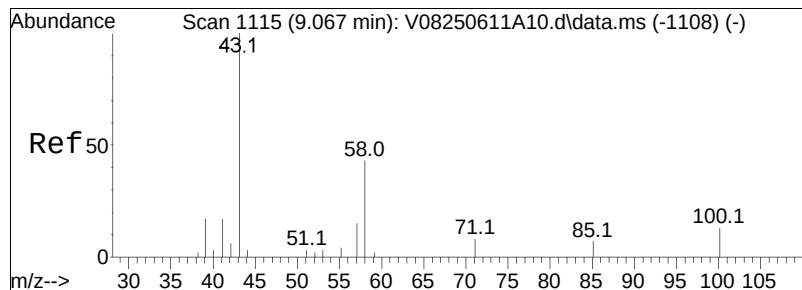




#71
 1,2-Dibromoethane
 Concen: 10.34 ug/L
 RT: 8.780 min Scan# 1073
 Delta R.T. -0.000 min
 Lab File: V08250625A26.d
 Acq: 25 Jun 2025 4:44 pm

Tgt Ion	Ratio	Lower	Upper
107	100		
109	97.3	73.0	109.4





#72

2-Hexanone

Concen: 8.71 ug/L

RT: 9.074 min Scan# 1116

Delta R.T. 0.007 min

Lab File: V08250625A26.d

Acq: 25 Jun 2025 4:44 pm

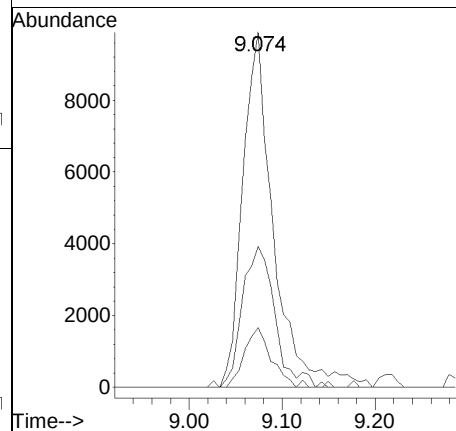
Tgt Ion: 43 Resp: 22873

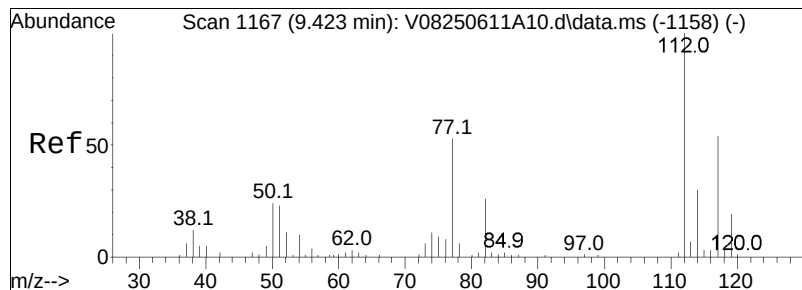
Ion Ratio Lower Upper

43 100

58 41.5 33.5 50.3

57 14.9 12.6 18.8





#73

Chlorobenzene

Concen: 9.19 ug/L

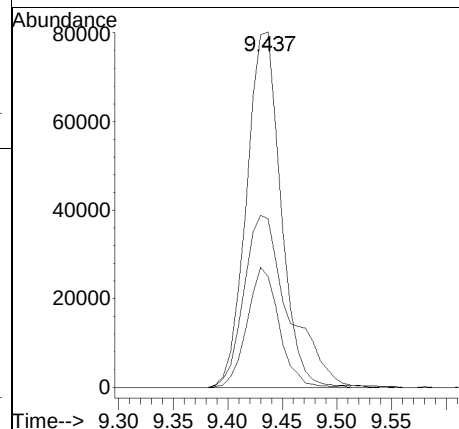
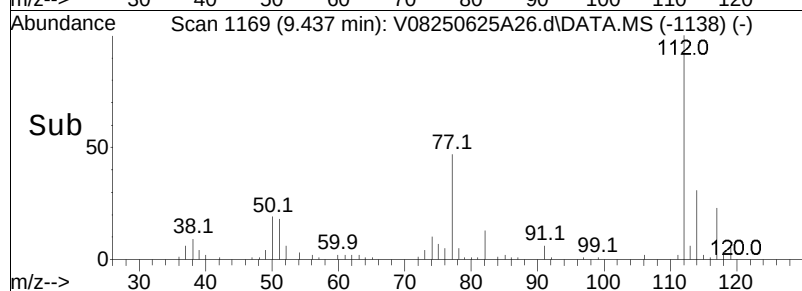
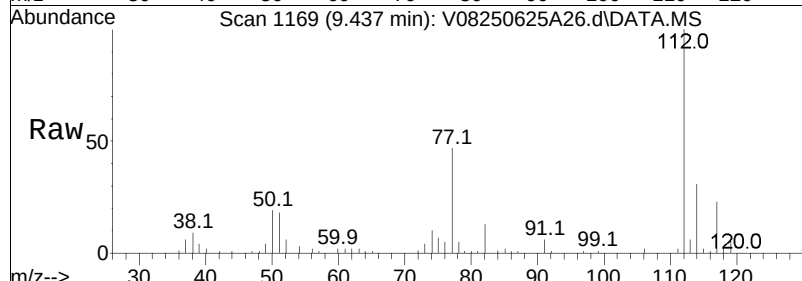
RT: 9.437 min Scan# 1169

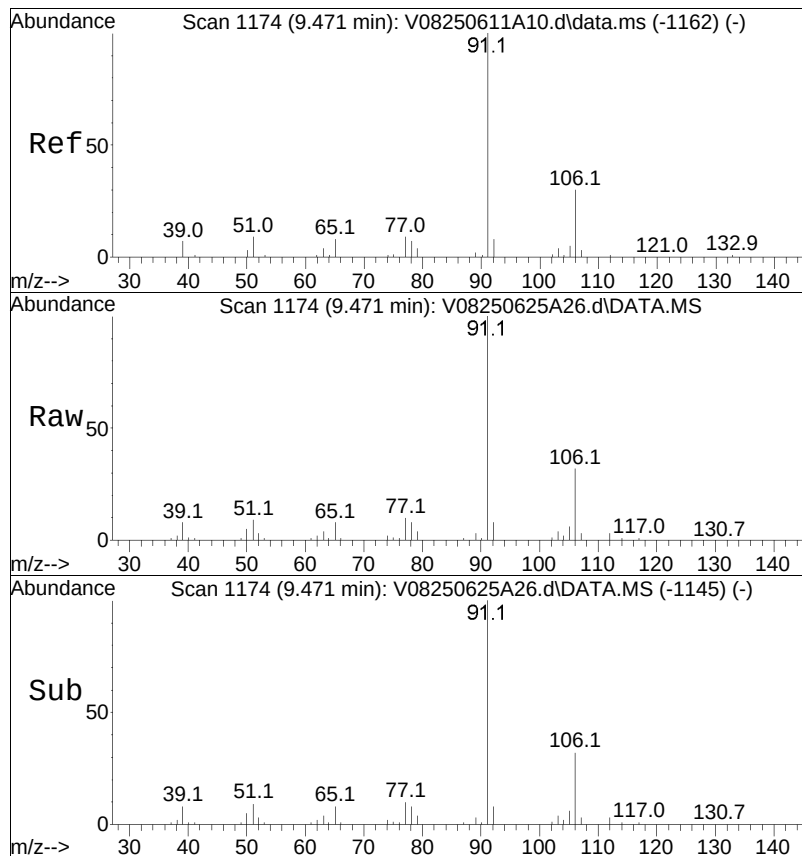
Delta R.T. 0.014 min

Lab File: V08250625A26.d

Acq: 25 Jun 2025 4:44 pm

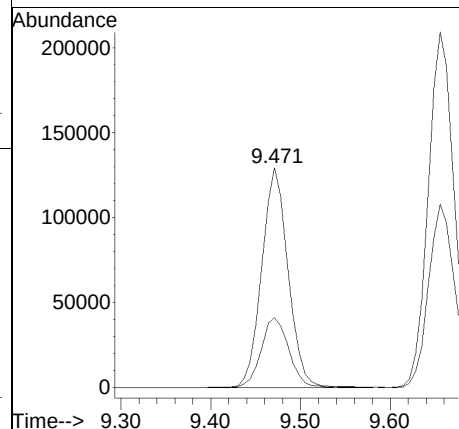
Tgt Ion:	112	Resp:	175438
Ion Ratio	Lower	Upper	
112	100		
77	63.8	55.3	82.9
114	31.5	25.4	38.2

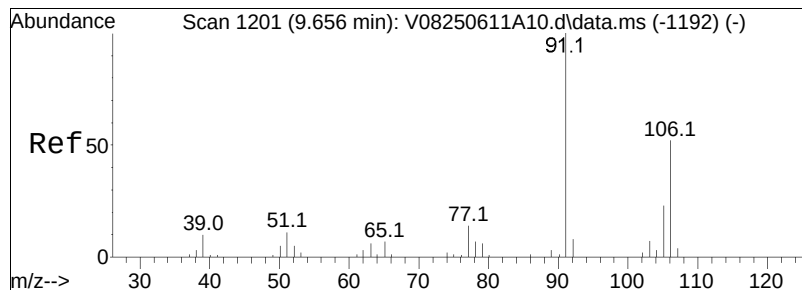




#74
 Ethylbenzene
 Concen: 8.61 ug/L
 RT: 9.471 min Scan# 1174
 Delta R.T. -0.000 min
 Lab File: V08250625A26.d
 Acq: 25 Jun 2025 4:44 pm

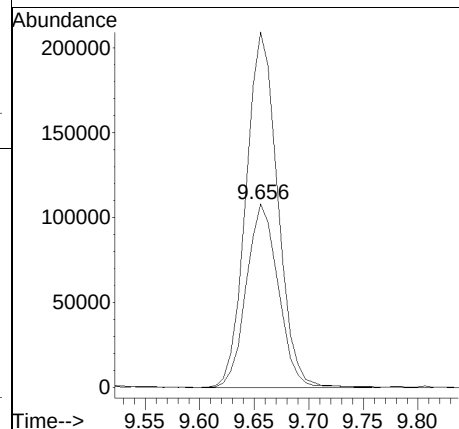
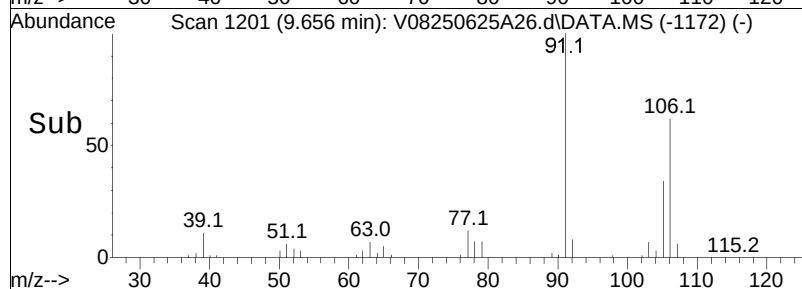
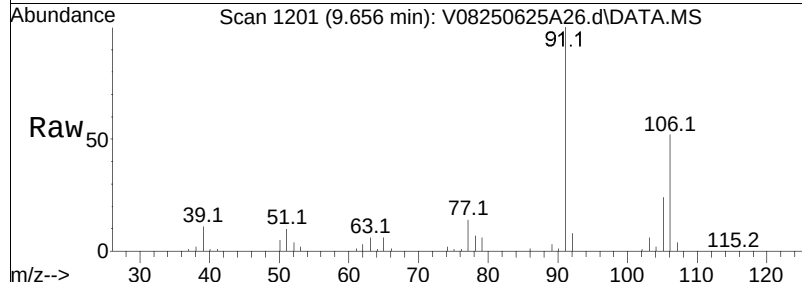
Tgt Ion	Ratio	Lower	Upper
91	100		
106	33.3	25.4	38.0

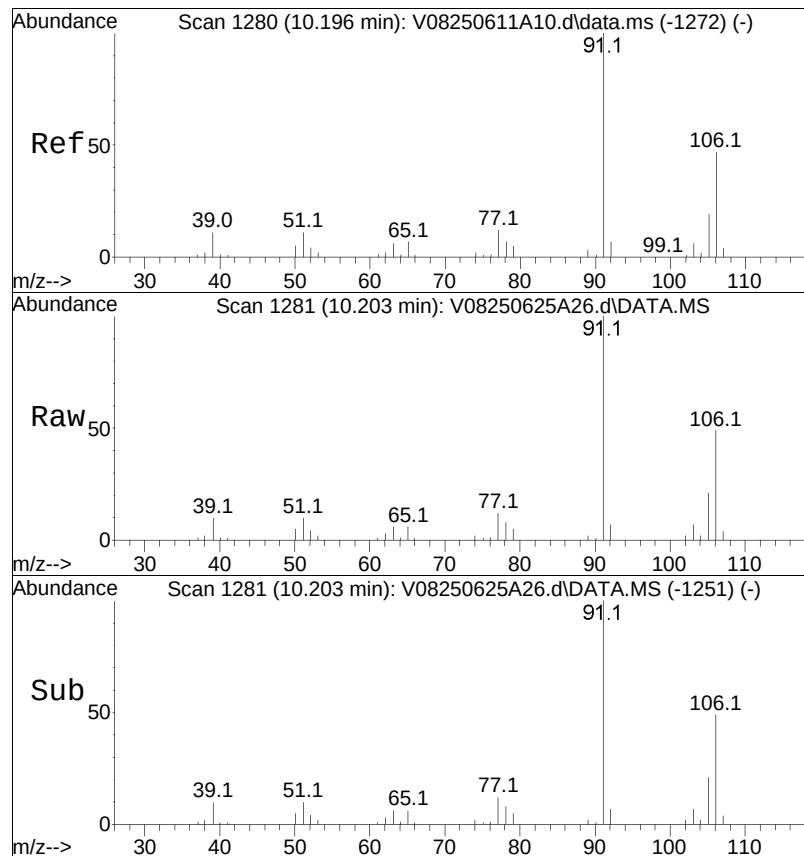




#76
 p/m Xylene
 Concen: 16.43 ug/L
 RT: 9.656 min Scan# 1201
 Delta R.T. -0.000 min
 Lab File: V08250625A26.d
 Acq: 25 Jun 2025 4:44 pm

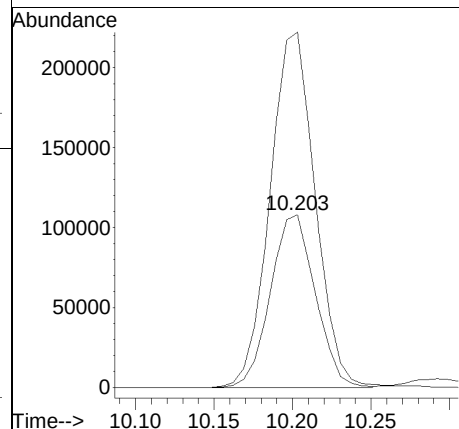
Tgt Ion	Ratio	Lower	Upper
106	100		
91	192.2	155.4	233.2

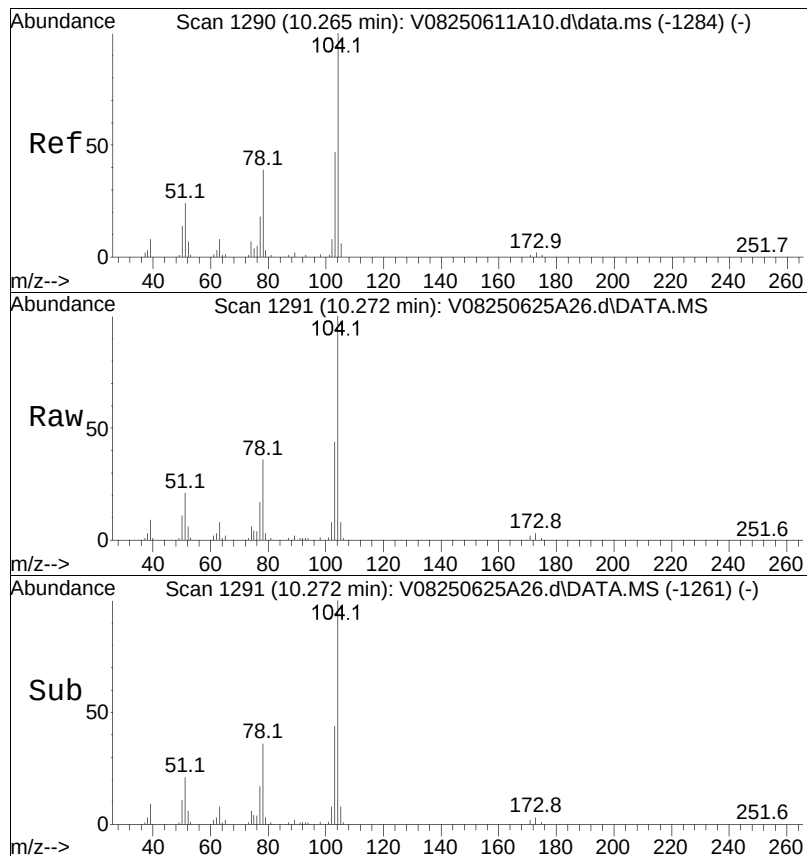




#77
 o Xylene
 Concen: 16.18 ug/L
 RT: 10.203 min Scan# 1281
 Delta R.T. 0.007 min
 Lab File: V08250625A26.d
 Acq: 25 Jun 2025 4:44 pm

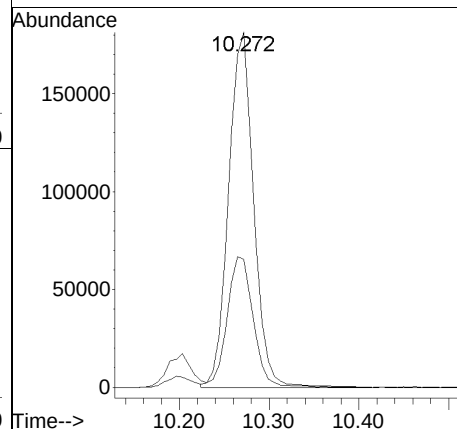
Tgt	Ion	Ratio	Lower	Upper
106	100			
91	207.2	167.4	251.0	

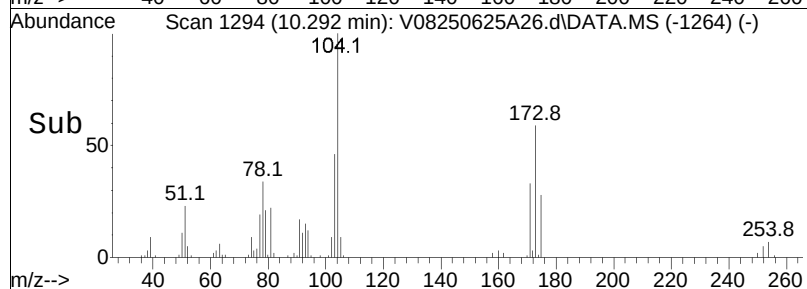
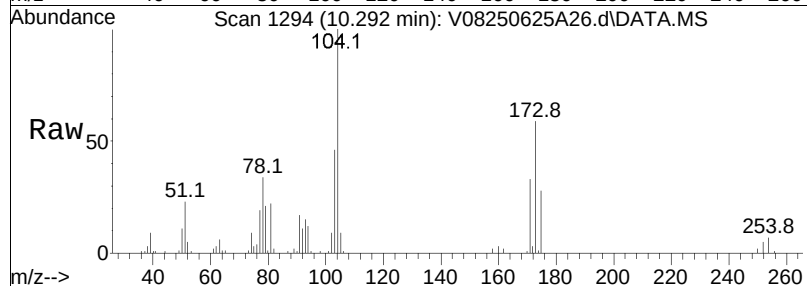
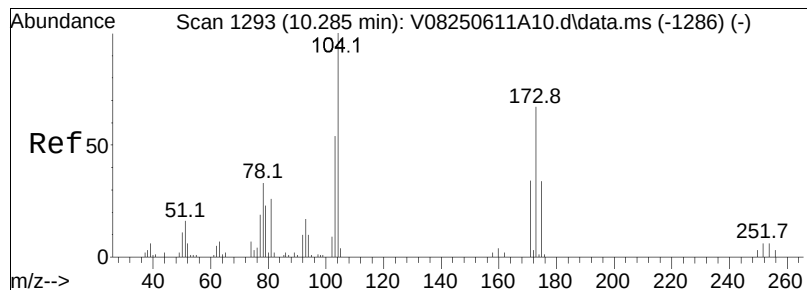




#78
 Styrene
 Concen: 15.01 ug/L
 RT: 10.272 min Scan# 1291
 Delta R.T. 0.007 min
 Lab File: V08250625A26.d
 Acq: 25 Jun 2025 4:44 pm

Tgt Ion	Ratio	Lower	Upper
104	100		
78	37.8	31.9	47.9





#80

Bromoform

Concen: 8.95 ug/L

RT: 10.292 min Scan# 1294

Delta R.T. 0.007 min

Lab File: V08250625A26.d

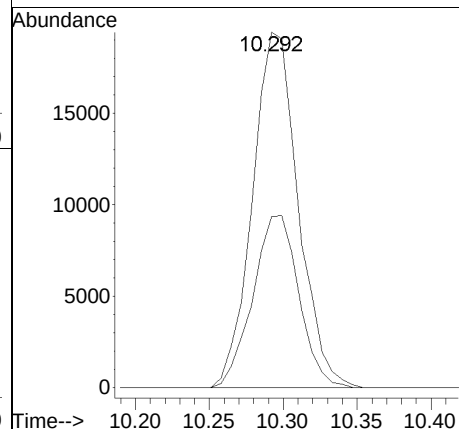
Acq: 25 Jun 2025 4:44 pm

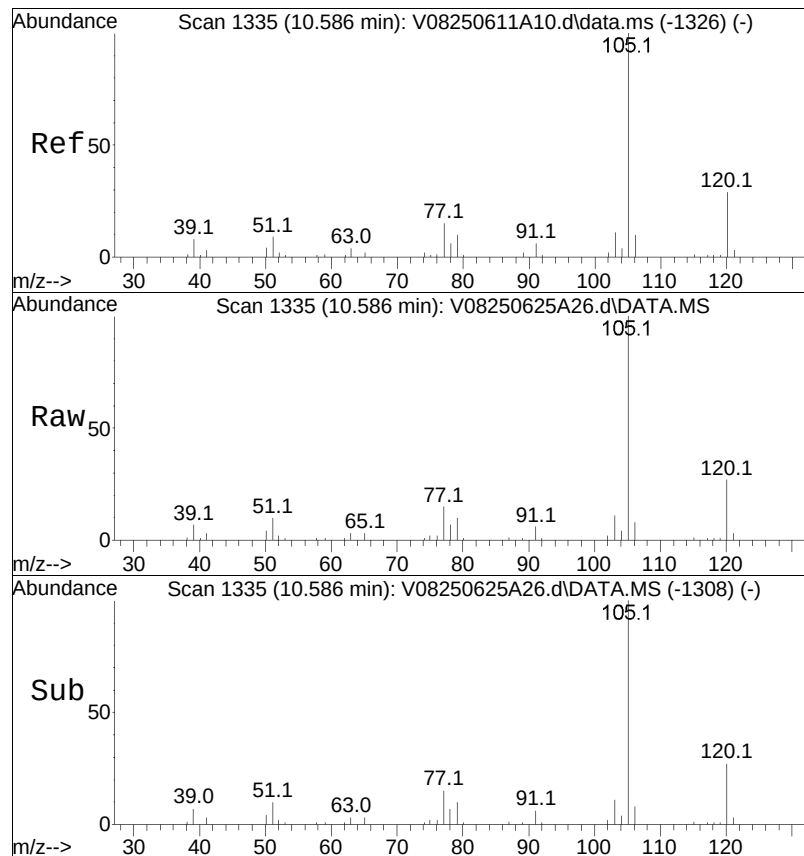
Tgt Ion:173 Resp: 41767

Ion Ratio Lower Upper

173 100

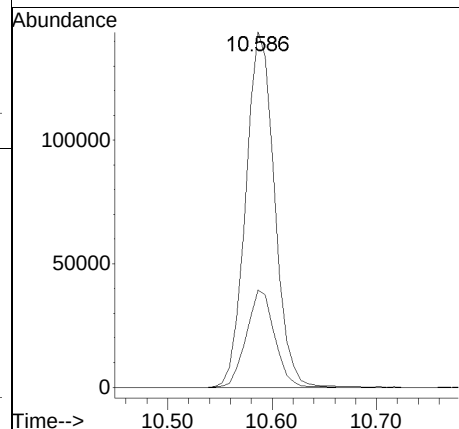
175 48.7 27.4 67.4

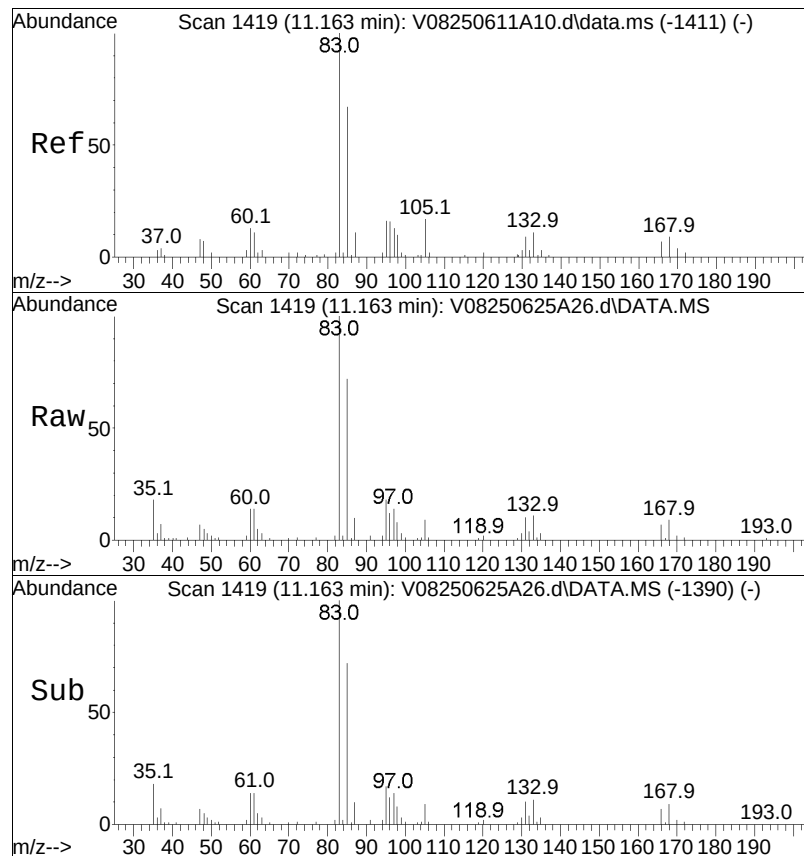




#82
 Isopropylbenzene
 Concen: 8.48 ug/L
 RT: 10.586 min Scan# 1335
 Delta R.T. 0.000 min
 Lab File: V08250625A26.d
 Acq: 25 Jun 2025 4:44 pm

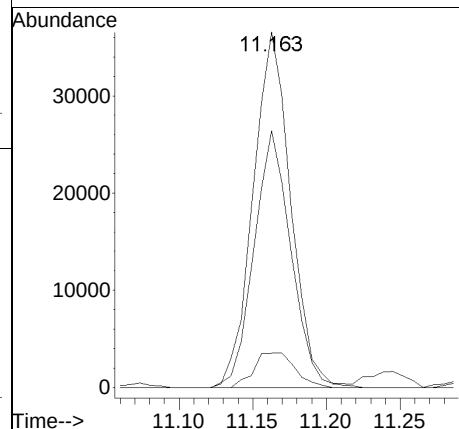
Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.9	7.3	47.3

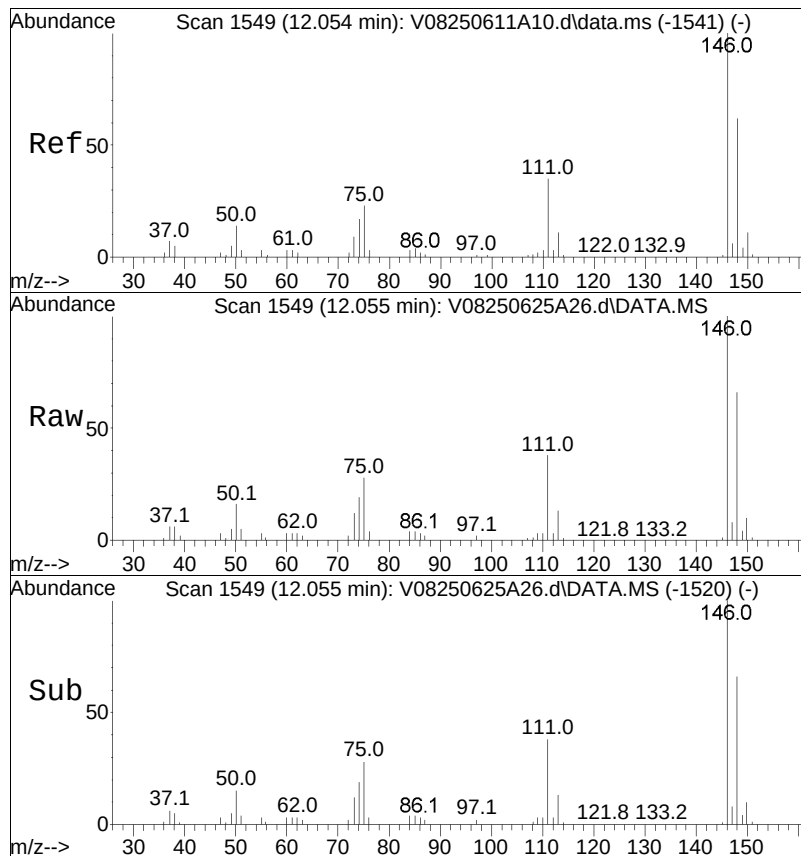




#87
 1,1,2,2-Tetrachloroethane
 Concen: 10.52 ug/L
 RT: 11.163 min Scan# 1419
 Delta R.T. -0.000 min
 Lab File: V08250625A26.d
 Acq: 25 Jun 2025 4:44 pm

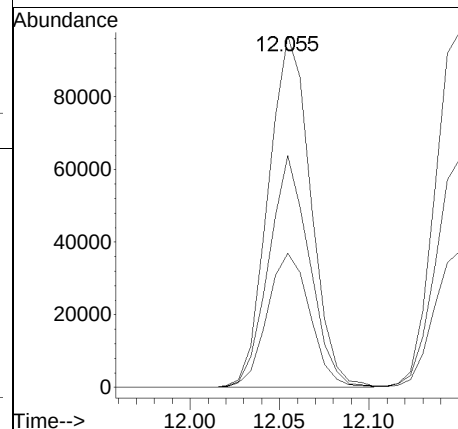
Tgt Ion	Ratio	Resp	Lower	Upper
83	100	64550		
131	10.7		0.0	29.6
85	71.2		49.7	89.7

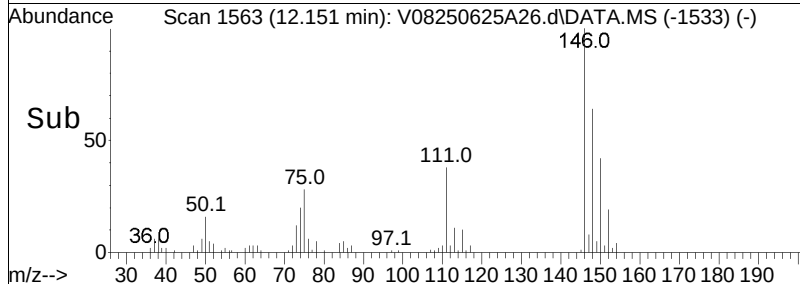
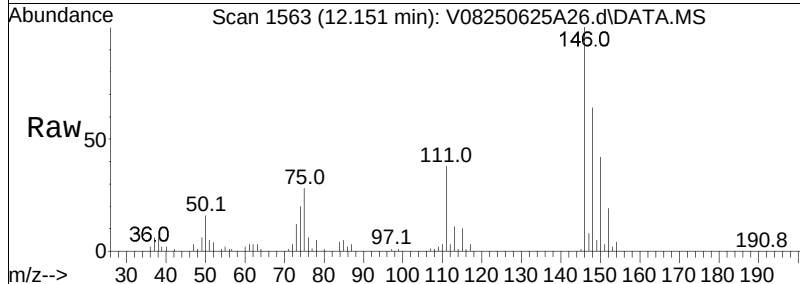
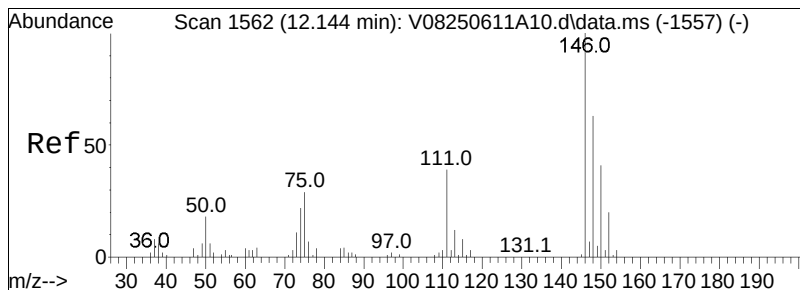




#100
 1,3-Dichlorobenzene
 Concen: 8.81 ug/L
 RT: 12.055 min Scan# 1549
 Delta R.T. 0.001 min
 Lab File: V08250625A26.d
 Acq: 25 Jun 2025 4:44 pm

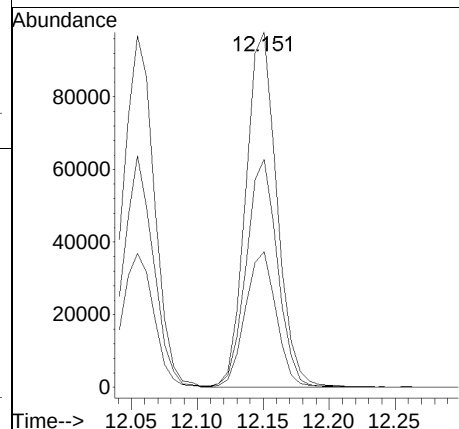
Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.7	24.4	50.6
148	63.4	41.0	85.2

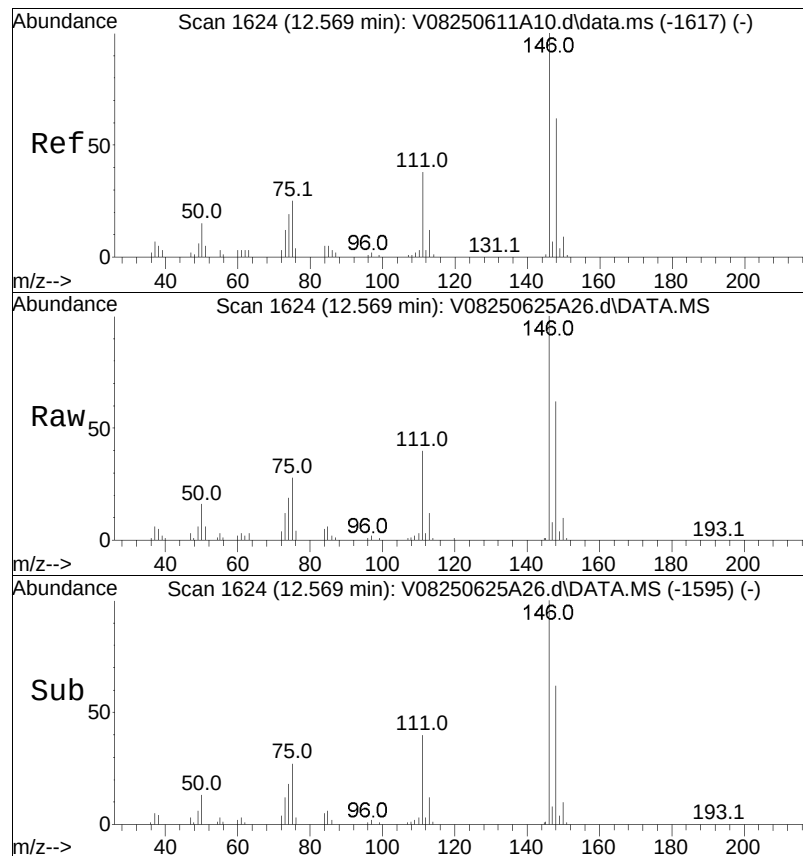




#101
 1,4-Dichlorobenzene
 Concen: 8.77 ug/L
 RT: 12.151 min Scan# 1563
 Delta R.T. 0.007 min
 Lab File: V08250625A26.d
 Acq: 25 Jun 2025 4:44 pm

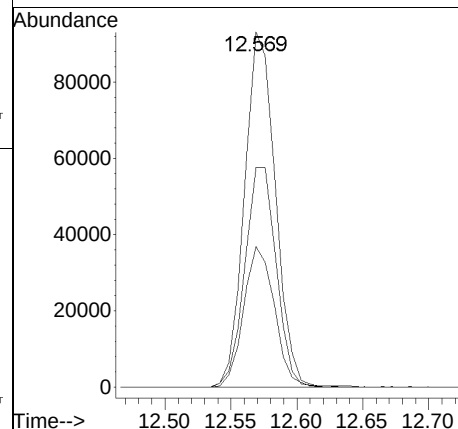
Tgt Ion:	146	Resp:	161634
Ion Ratio	Lower	Upper	
146	100		
111	38.1	29.8	44.6
148	64.4	50.9	76.3

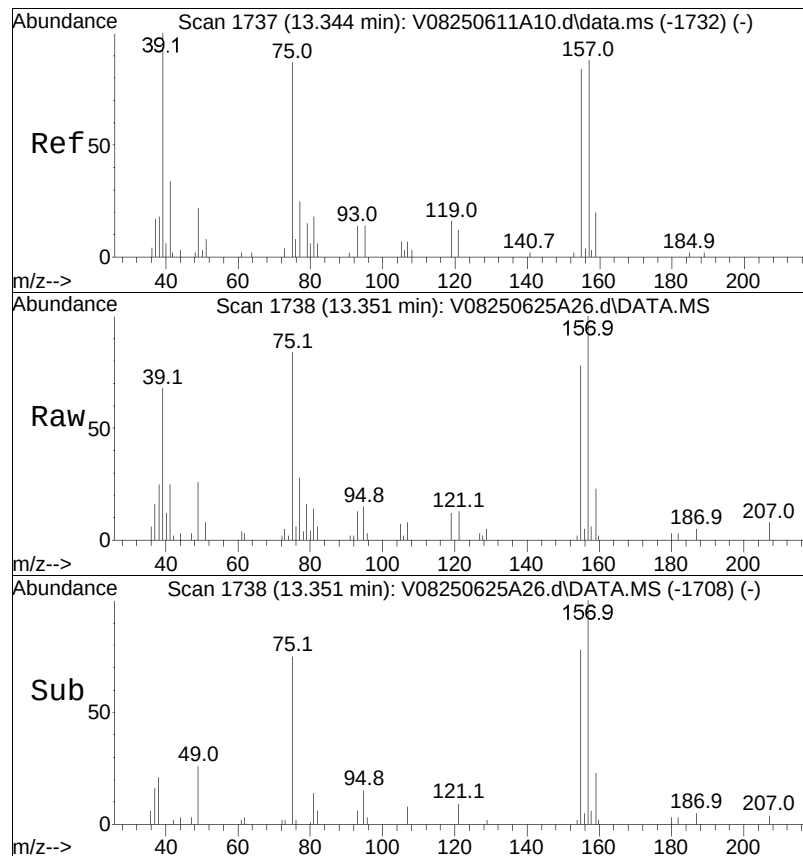




#104
 1,2-Dichlorobenzene
 Concen: 9.15 ug/L
 RT: 12.569 min Scan# 1624
 Delta R.T. 0.000 min
 Lab File: V08250625A26.d
 Acq: 25 Jun 2025 4:44 pm

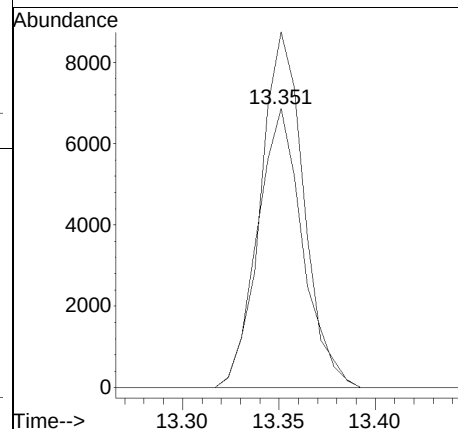
Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.5	25.0	51.8
148	63.2	40.0	83.2

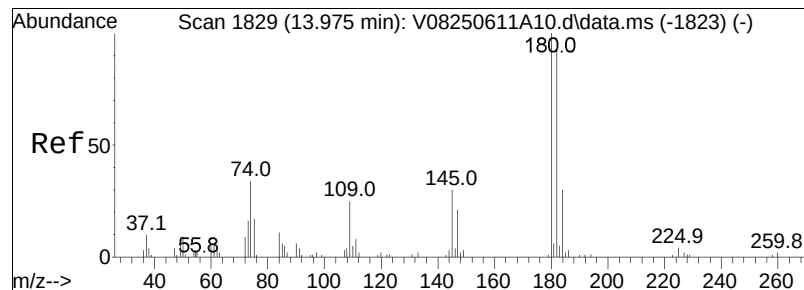




#106
 1,2-Dibromo-3-chloropropane
 Concen: 11.49 ug/L
 RT: 13.351 min Scan# 1738
 Delta R.T. 0.007 min
 Lab File: V08250625A26.d
 Acq: 25 Jun 2025 4:44 pm

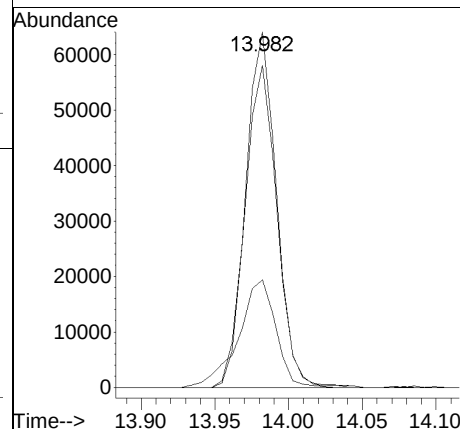
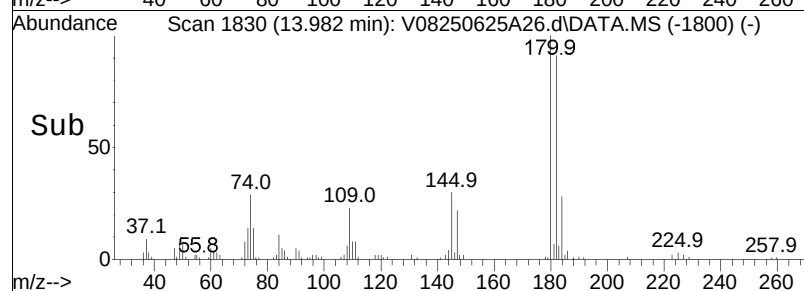
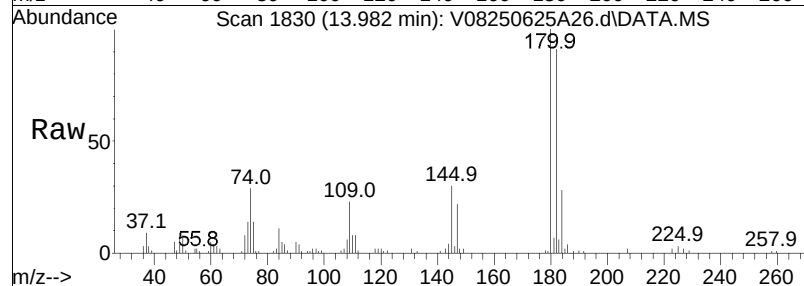
Tgt Ion	Ratio	Lower	Upper
155	100		
157	121.6	97.9	146.9

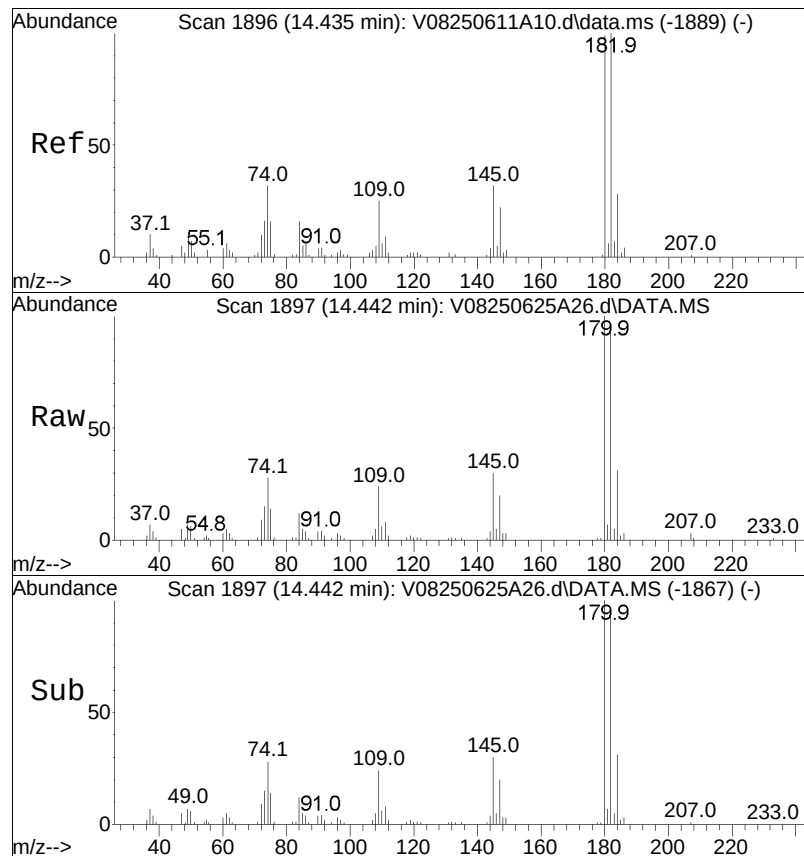




#109
 1,2,4-Trichlorobenzene
 Concen: 8.60 ug/L
 RT: 13.982 min Scan# 1830
 Delta R.T. 0.007 min
 Lab File: V08250625A26.d
 Acq: 25 Jun 2025 4:44 pm

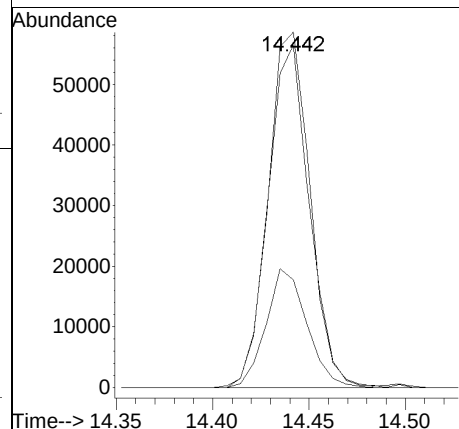
Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.7	74.1	111.1
145	36.4	27.8	41.8





#111
 1,2,3-Trichlorobenzene
 Concen: 9.02 ug/L
 RT: 14.442 min Scan# 1897
 Delta R.T. 0.007 min
 Lab File: V08250625A26.d
 Acq: 25 Jun 2025 4:44 pm

Tgt Ion:	180	Resp:	88330
Ion Ratio	Lower	Upper	
180	100		
182	94.9	76.1	114.1
145	32.6	25.9	38.9



Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250625A\
 Data File : V08250625A27.d
 Acq On : 25 Jun 2025 5:06 pm
 Operator : VOA108:AJK
 Sample : WG2084241-7,31,10,10,,A2
 Misc : WG2084241,ICAL22356
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 26 15:55:46 2025
 Quant Method : K:\VOA108\2025\250625A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250625A\V08250625A01.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	5.906	96	275398	10.000	ug/L	0.00
Standard Area 1 = 305323			Recovery =	90.20%		
59) Chlorobenzene-d5	9.410	117	209473	10.000	ug/L	0.00
Standard Area 1 = 230501			Recovery =	90.88%		
79) 1,4-Dichlorobenzene-d4	12.130	152	127674	10.000	ug/L	0.00
Standard Area 1 = 131049			Recovery =	97.42%		
System Monitoring Compounds						
36) Dibromofluoromethane	5.109	113	87260	9.836	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.36%		
43) 1,2-Dichloroethane-d4	5.619	65	83186	9.817	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.17%		
60) Toluene-d8	7.583	98	259055	10.119	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	101.19%		
83) 4-Bromofluorobenzene	10.916	95	90305	10.375	ug/L	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	103.75%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.617	85	61045	8.851	ug/L	99
3) Chloromethane	1.804	50	65708	9.165	ug/L	99
4) Vinyl chloride	1.877	62	91789	10.733	ug/L	98
5) Bromomethane	2.176	94	41939	6.795	ug/L	100
6) Chloroethane	2.276	64	64356	10.442	ug/L	88
7) Trichlorofluoromethane	2.422	101	187455	9.330	ug/L	98
10) 1,1-Dichloroethene	2.894	96	118920	12.801	ug/L	100
11) Carbon disulfide	2.927	76	295759	10.576	ug/L	98
12) Freon-113	2.934	101	88022	9.653	ug/L	95
15) Methylene chloride	3.440	84	68657	8.869	ug/L	96
17) Acetone	3.479	43	17135	12.402	ug/L	92
18) trans-1,2-Dichloroethene	3.586	96	64589	9.298	ug/L	94
19) Methyl acetate	3.592	43	28084	8.373	ug/L	98
20) Methyl tert-butyl ether	3.686	73	159146	9.485	ug/L	99
23) 1,1-Dichloroethane	4.158	63	152028	12.021	ug/L	99
28) cis-1,2-Dichloroethene	4.670	96	73328	9.227	ug/L	99
30) Bromochloromethane	4.863	128	41701	9.079	ug/L	97
31) Cyclohexane	4.863	56	79986	7.761	ug/L	97
32) Chloroform	4.936	83	129718	9.153	ug/L	98
34) Carbon tetrachloride	5.062	117	110939	9.616	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : K:\VOA108\2025\250625A\
 Data File : V08250625A27.d
 Acq On : 25 Jun 2025 5:06 pm
 Operator : VOA108:AJK
 Sample : WG2084241-7,31,10,10,,A2
 Misc : WG2084241,ICAL22356
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 26 15:55:46 2025
 Quant Method : K:\VOA108\2025\250625A\V108_250611A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Wed Jun 11 15:00:39 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - K:\VOA108\2025\250625A\V08250625A01.d
 Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

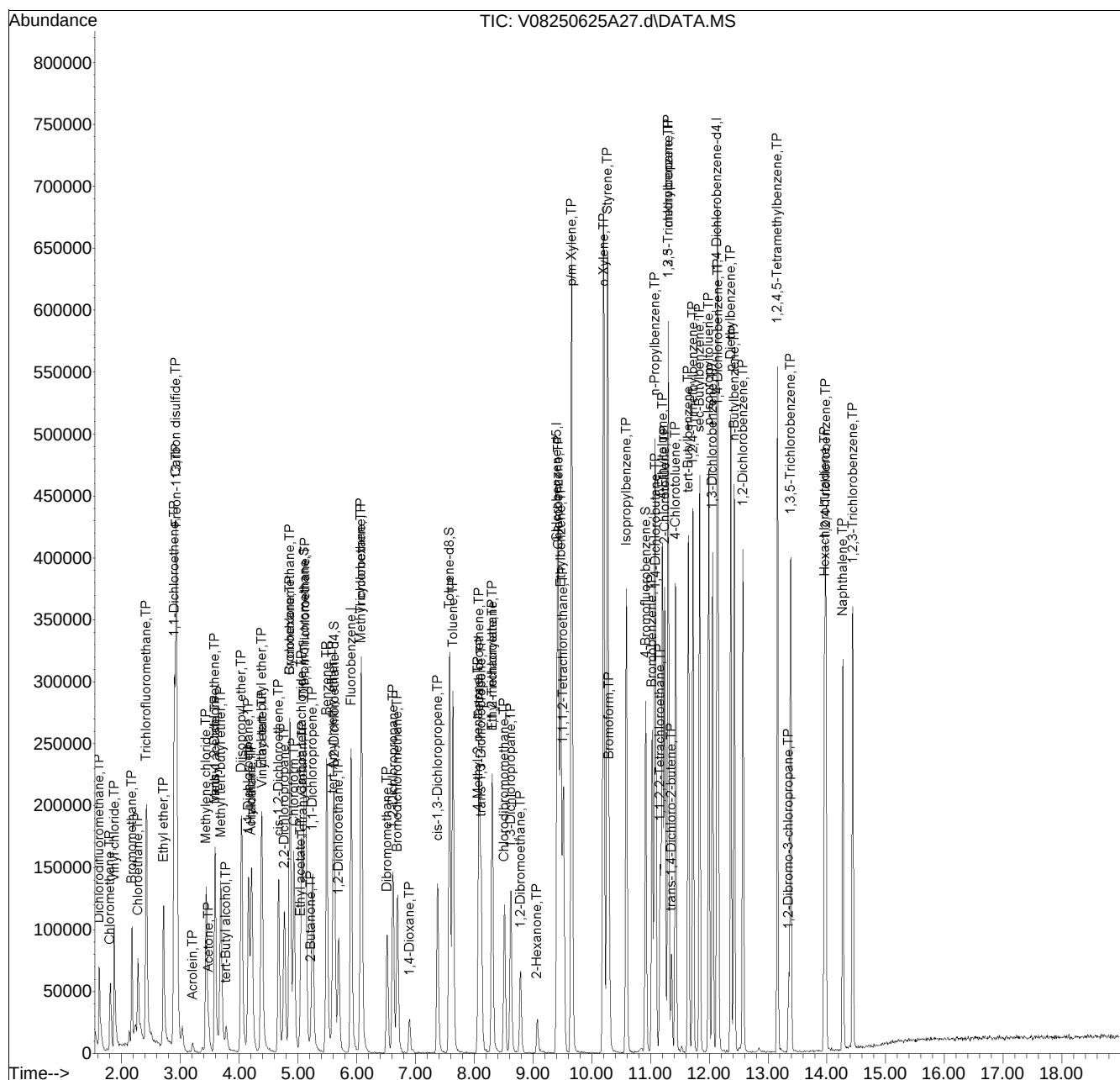
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37)	1,1,1-Trichloroethane	5.129	97	165001	13.993	ug/L	97
39)	2-Butanone	5.222	43	20607	9.970	ug/L	94
41)	Benzene	5.489	78	262714	9.380	ug/L	99
44)	1,2-Dichloroethane	5.694	62	83143	9.581	ug/L	99
47)	Methyl cyclohexane	6.070	83	79438	7.571	ug/L	92
48)	Trichloroethene	6.077	95	70987	9.199	ug/L	95
51)	1,2-Dichloropropane	6.618	63	61188	9.190	ug/L	96
54)	Bromodichloromethane	6.693	83	96277	9.704	ug/L	99
58)	cis-1,3-Dichloropropene	7.377	75	90479	9.059	ug/L	96
61)	Toluene	7.637	92	150395	9.411	ug/L	97
62)	4-Methyl-2-pentanone	8.068	58	13174	10.058	ug/L	87
63)	Tetrachloroethene	8.082	166	71397	9.498	ug/L	97
65)	trans-1,3-Dichloropropene	8.116	75	83852	10.557	ug/L	98
68)	1,1,2-Trichloroethane	8.308	83	45577	10.135	ug/L	97
69)	Chlorodibromomethane	8.513	129	77119	10.377	ug/L	98
71)	1,2-Dibromoethane	8.787	107	55130	11.276	ug/L	98
72)	2-Hexanone	9.067	43	24312	8.851	ug/L	98
73)	Chlorobenzene	9.430	112	186931	9.359	ug/L	96
74)	Ethylbenzene	9.471	91	292585	9.133	ug/L	99
76)	p/m Xylene	9.656	106	237449	16.962	ug/L	100
77)	o Xylene	10.203	106	232776	16.817	ug/L	98
78)	Styrene	10.265	104	377415	15.342	ug/L	99
80)	Bromoform	10.292	173	46199	9.514	ug/L	96
82)	Isopropylbenzene	10.587	105	292017	8.652	ug/L	100
87)	1,1,2,2-Tetrachloroethane	11.163	83	70374	11.020	ug/L	99
100)	1,3-Dichlorobenzene	12.055	146	169275	8.983	ug/L	99
101)	1,4-Dichlorobenzene	12.151	146	174005	9.068	ug/L	98
104)	1,2-Dichlorobenzene	12.569	146	163532	9.447	ug/L	98
106)	1,2-Dibromo-3-chloropr...	13.351	155	12347	12.169	ug/L	94
109)	1,2,4-Trichlorobenzene	13.982	180	104044	9.157	ug/L	99
111)	1,2,3-Trichlorobenzene	14.442	180	98692	9.678	ug/L	98

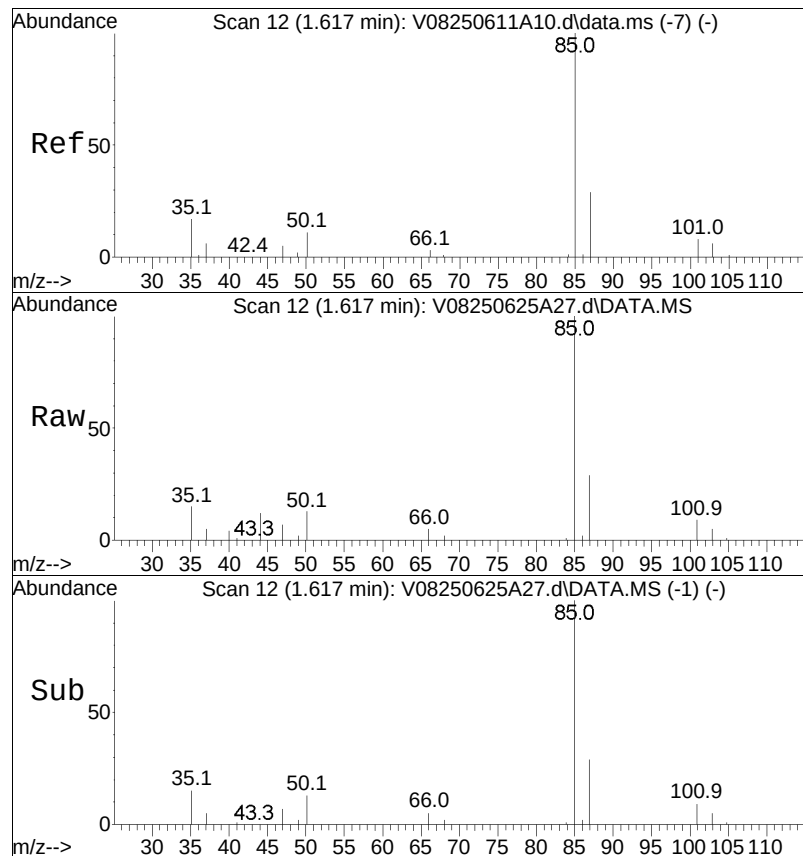
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : K:\VOA108\2025\250625A\
Data File : V08250625A27.d
Acq On : 25 Jun 2025 5:06 pm
Operator : VOA108:AJK
Sample : WG2084241-7,31,10,10,,A2
Misc : WG2084241,ICAL22356
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 26 15:55:46 2025
Quant Method : K:\VOA108\2025\250625A\V108_250611A_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Wed Jun 11 15:00:39 2025
Response via : Initial Calibration

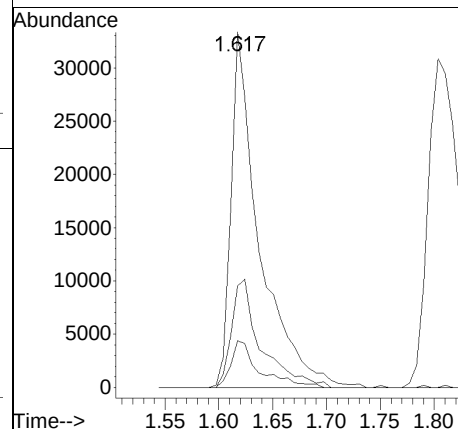
Sub List : 8260-Curve-Iodomethane - Megamix plus Diox-Iodomethane

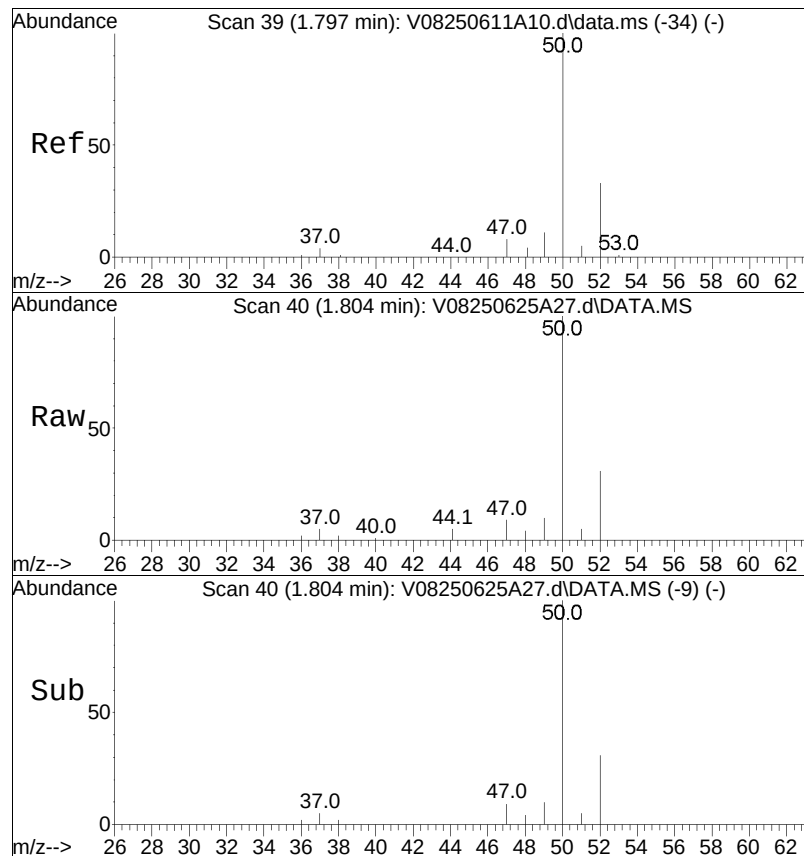




#2
 Dichlorodifluoromethane
 Concen: 8.85 ug/L
 RT: 1.617 min Scan# 12
 Delta R.T. 0.000 min
 Lab File: V08250625A27.d
 Acq: 25 Jun 2025 5:06 pm

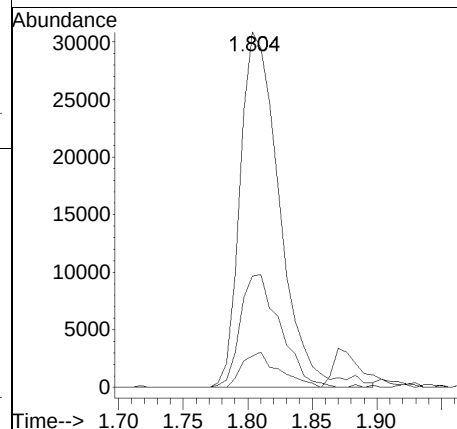
Tgt Ion	Ratio	Lower	Upper
85	100		
87	31.5	20.8	43.2
50	13.1	8.4	17.4

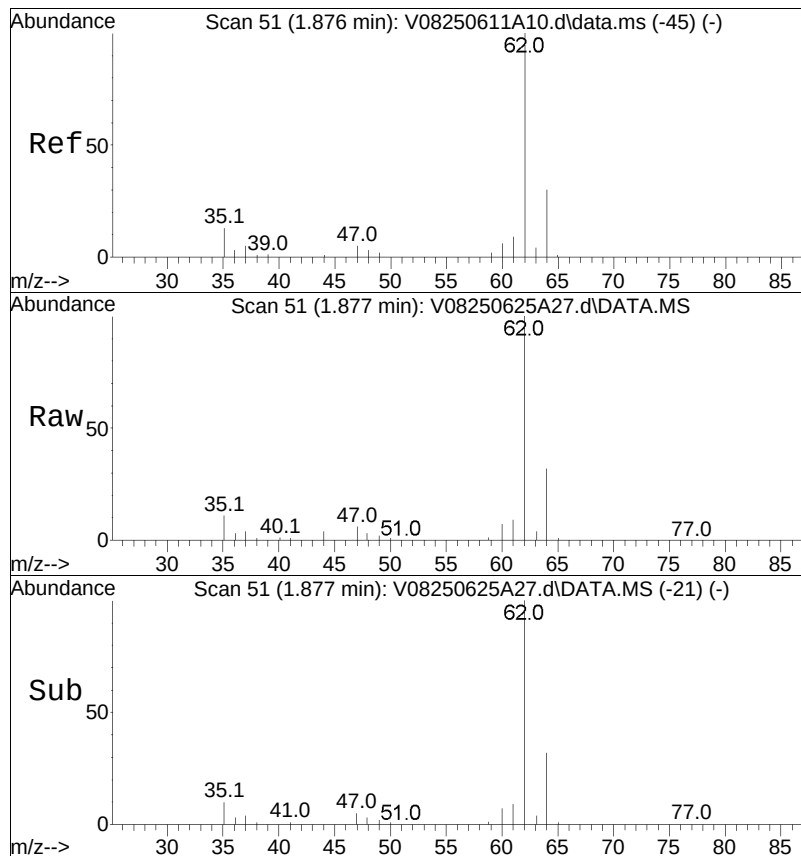




#3
 Chloromethane
 Concen: 9.17 ug/L
 RT: 1.804 min Scan# 40
 Delta R.T. 0.007 min
 Lab File: V08250625A27.d
 Acq: 25 Jun 2025 5:06 pm

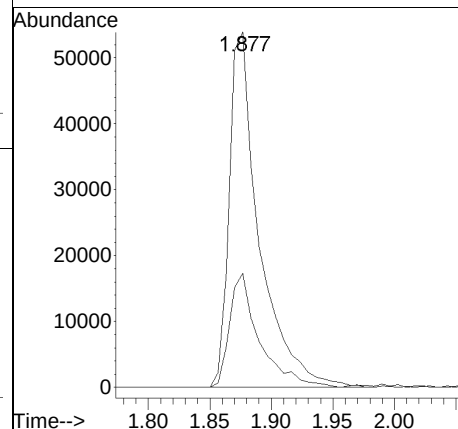
Tgt Ion:	50	Resp:	65708
Ion Ratio	Lower	Upper	
50	100		
52	32.1	12.4	52.4
47	9.2	0.0	28.0

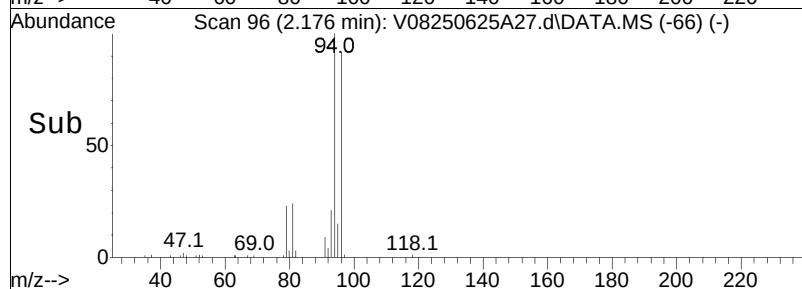
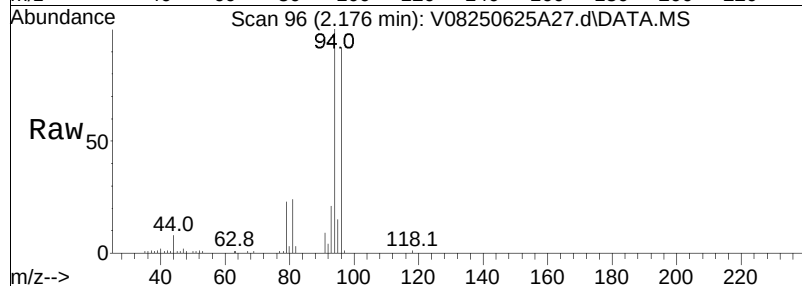
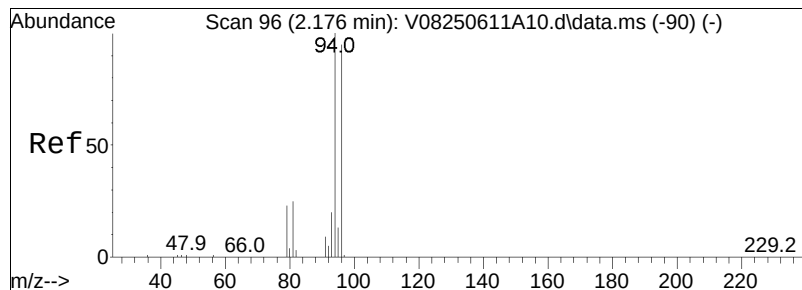




#4
 Vinyl chloride
 Concen: 10.73 ug/L
 RT: 1.877 min Scan# 51
 Delta R.T. 0.001 min
 Lab File: V08250625A27.d
 Acq: 25 Jun 2025 5:06 pm

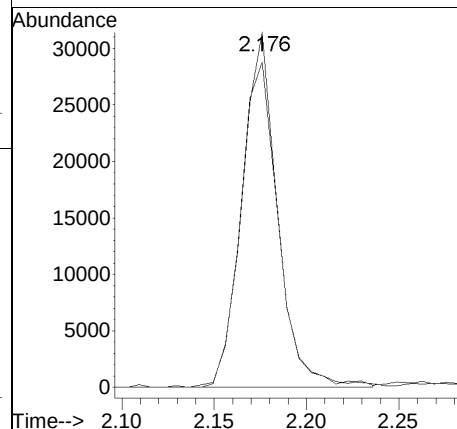
Tgt Ion	Ratio	Lower	Upper
62	100		
64	31.8	10.5	50.5

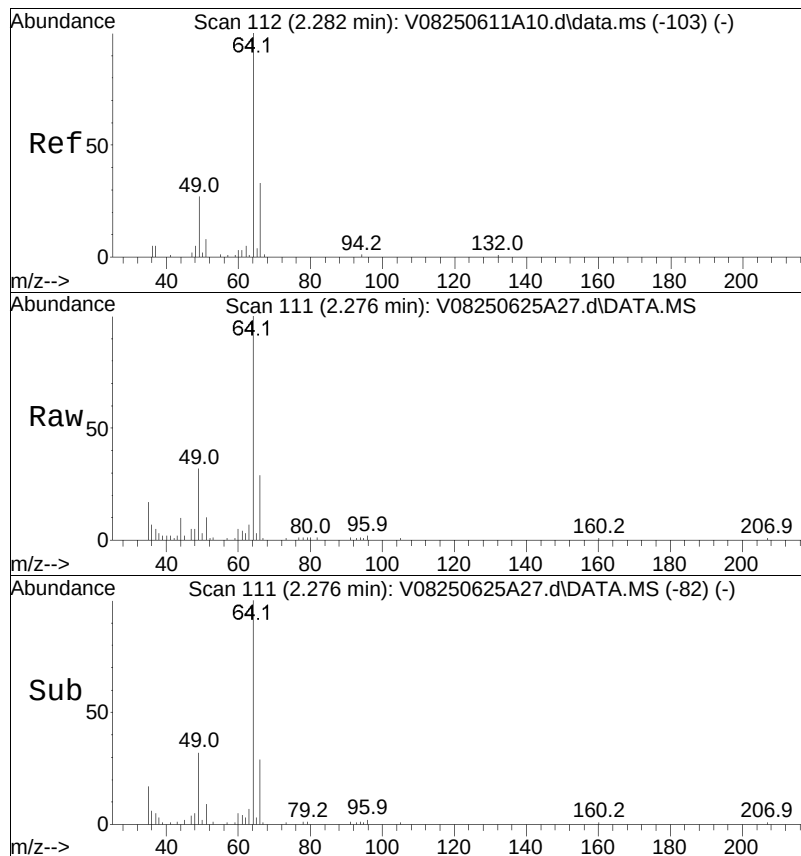




#5
 Bromomethane
 Concen: 6.80 ug/L
 RT: 2.176 min Scan# 96
 Delta R.T. -0.000 min
 Lab File: V08250625A27.d
 Acq: 25 Jun 2025 5:06 pm

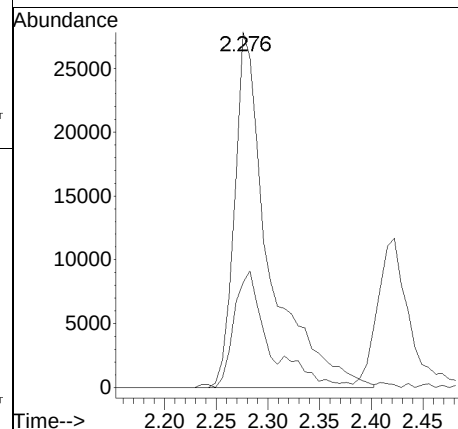
Tgt Ion	Ratio	Lower	Upper
94	100		
96	98.1	77.7	117.7

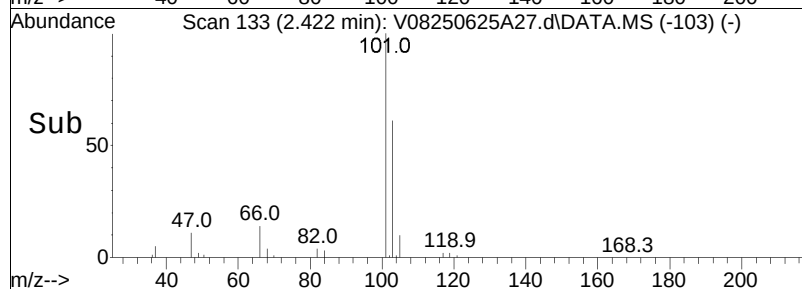
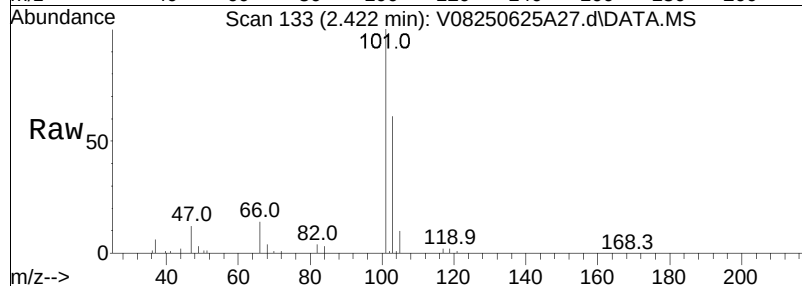
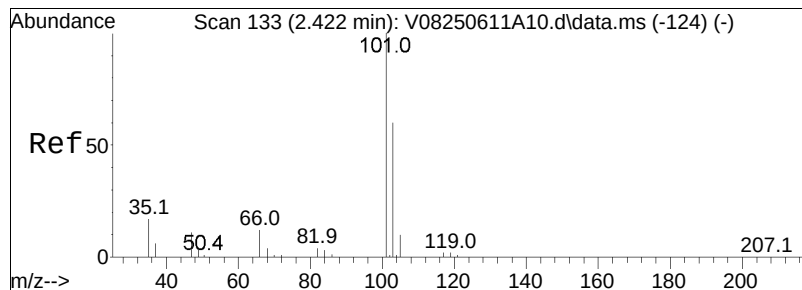




#6
 Chloroethane
 Concen: 10.44 ug/L
 RT: 2.276 min Scan# 111
 Delta R.T. -0.006 min
 Lab File: V08250625A27.d
 Acq: 25 Jun 2025 5:06 pm

Tgt Ion	Ratio	Lower	Upper
64	100		
66	26.9	13.7	53.7





#7

Trichlorofluoromethane

Concen: 9.33 ug/L

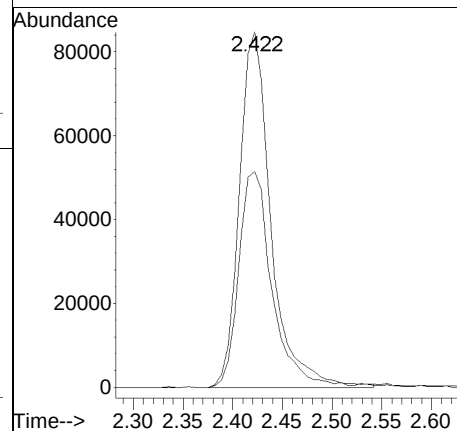
RT: 2.422 min Scan# 133

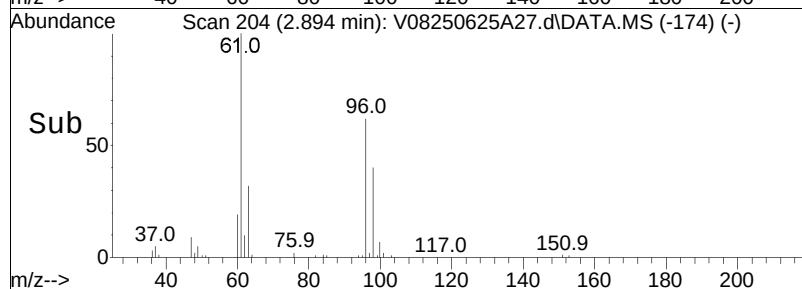
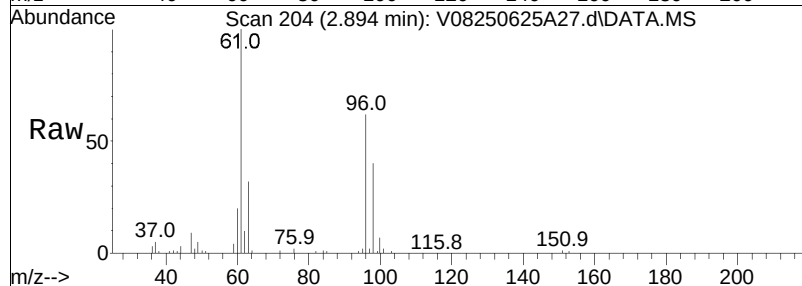
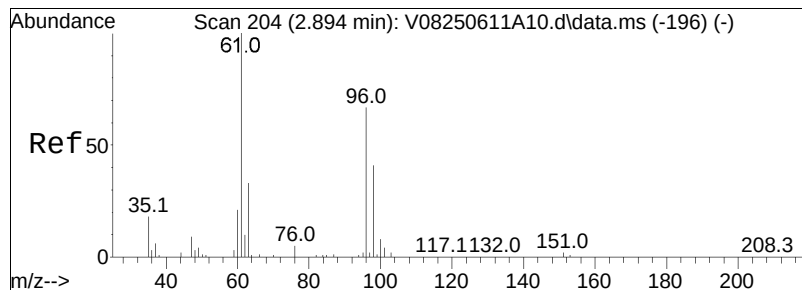
Delta R.T. 0.000 min

Lab File: V08250625A27.d

Acq: 25 Jun 2025 5:06 pm

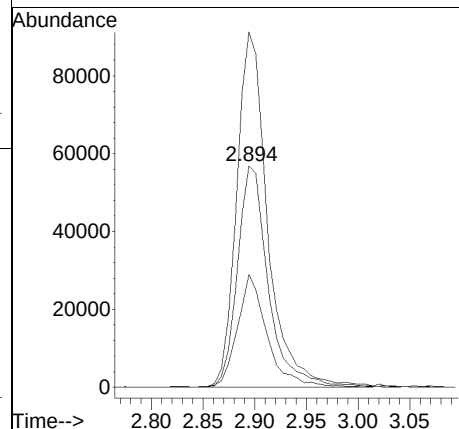
Tgt Ion	Ratio	Lower	Upper
101	100		
103	63.9	49.8	74.6

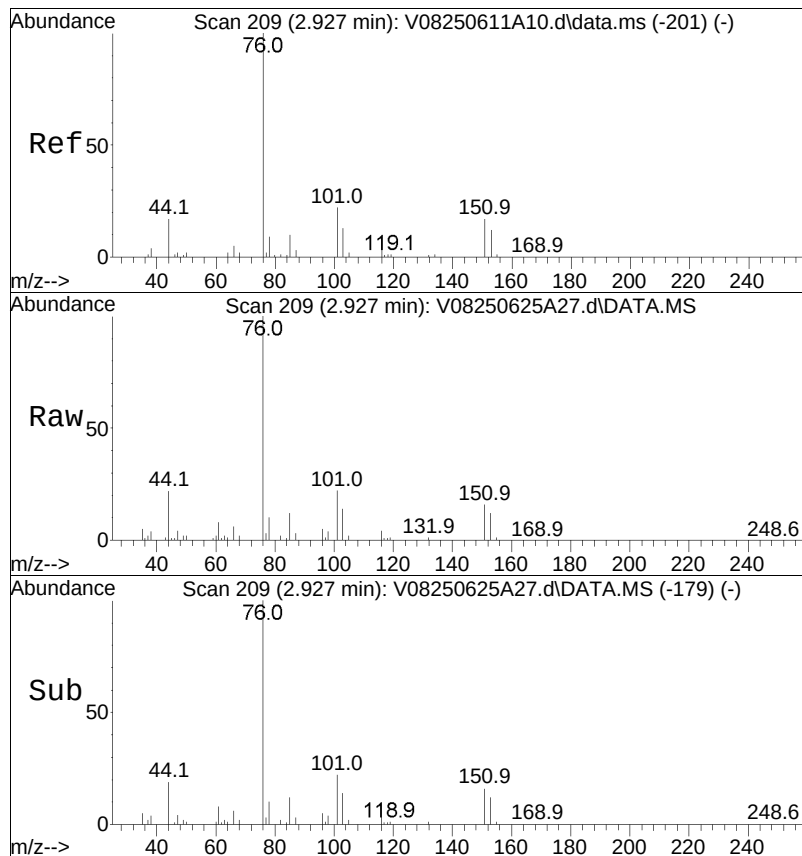




#10
 1,1-Dichloroethene
 Concen: 12.80 ug/L
 RT: 2.894 min Scan# 204
 Delta R.T. 0.000 min
 Lab File: V08250625A27.d
 Acq: 25 Jun 2025 5:06 pm

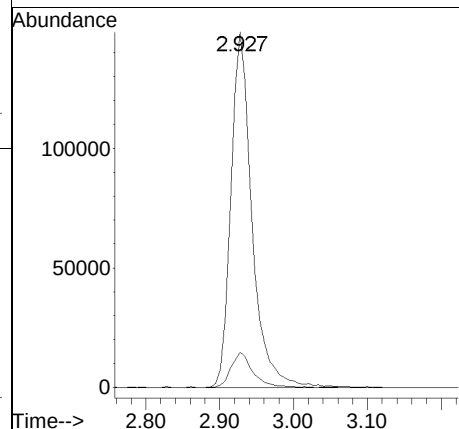
Tgt Ion	Ratio	Lower	Upper
96	100		
61	161.2	129.4	194.2
63	49.0	39.0	58.6

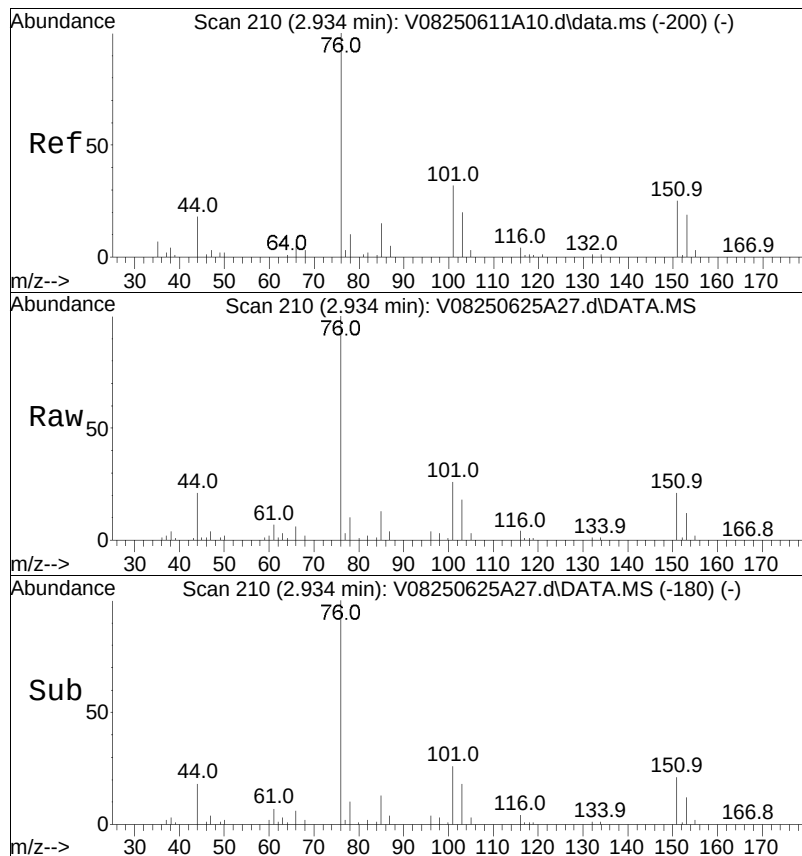




#11
Carbon disulfide
Concen: 10.58 ug/L
RT: 2.927 min Scan# 209
Delta R.T. 0.000 min
Lab File: V08250625A27.d
Acq: 25 Jun 2025 5:06 pm

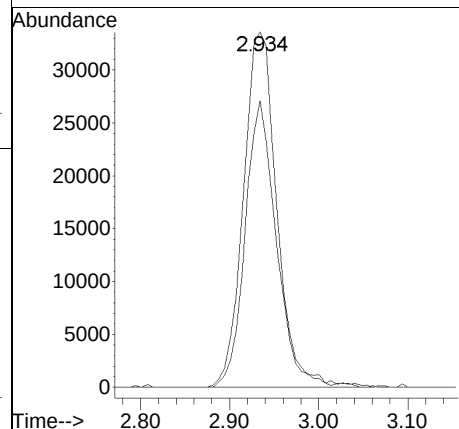
Tgt Ion	Ratio	Lower	Upper
76	100		
78	10.2	6.0	12.6

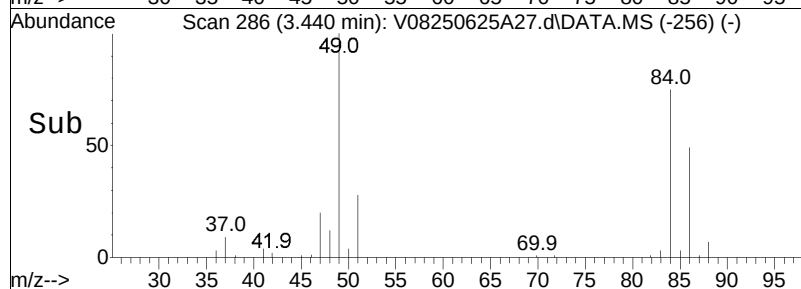
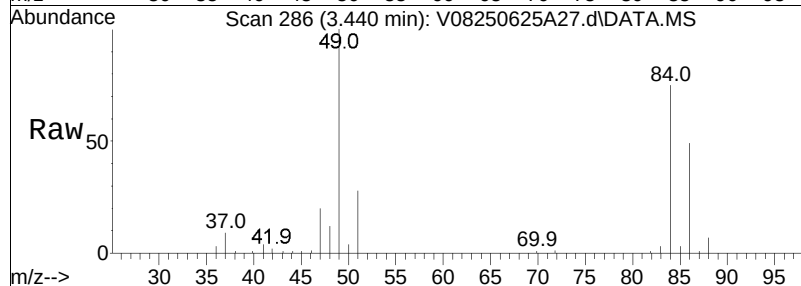
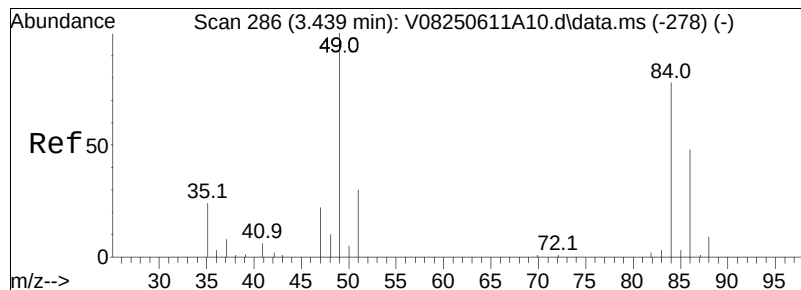




#12
 Freon-113
 Concen: 9.65 ug/L
 RT: 2.934 min Scan# 210
 Delta R.T. 0.000 min
 Lab File: V08250625A27.d
 Acq: 25 Jun 2025 5:06 pm

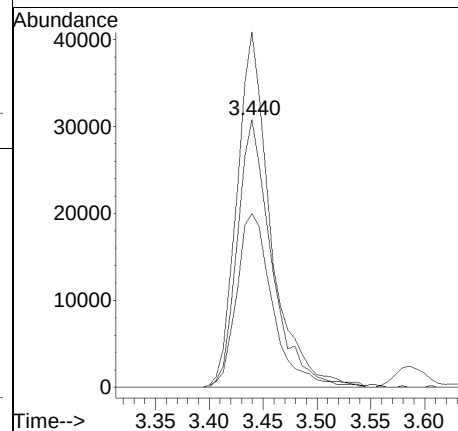
Tgt Ion	Ratio	Lower	Upper
101	100		
151	74.9	63.5	95.3

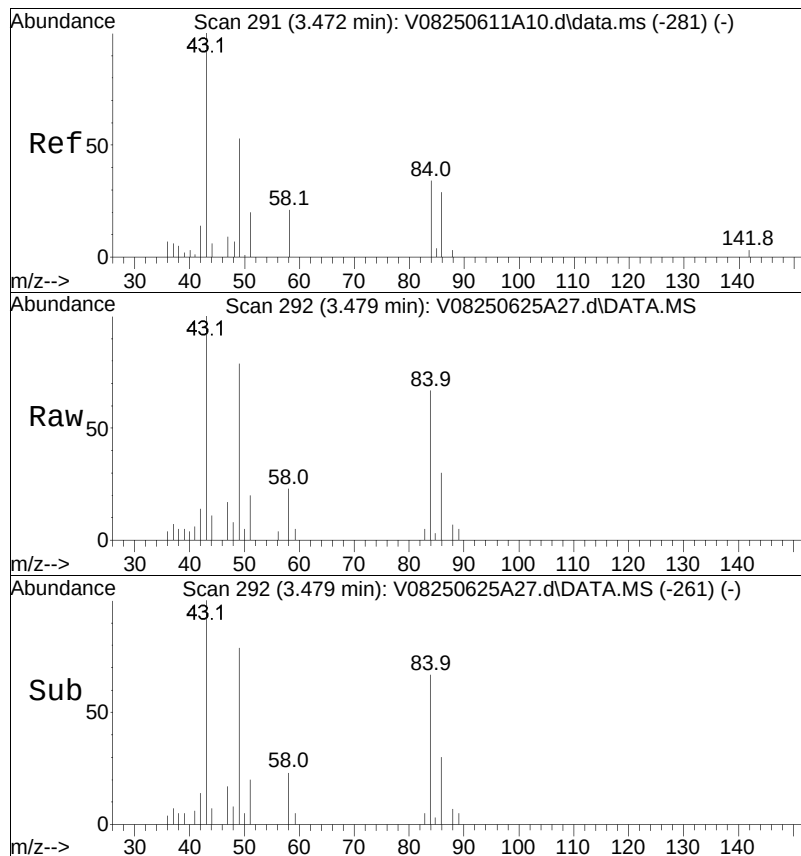




#15
Methylene chloride
Concen: 8.87 ug/L
RT: 3.440 min Scan# 286
Delta R.T. 0.001 min
Lab File: V08250625A27.d
Acq: 25 Jun 2025 5:06 pm

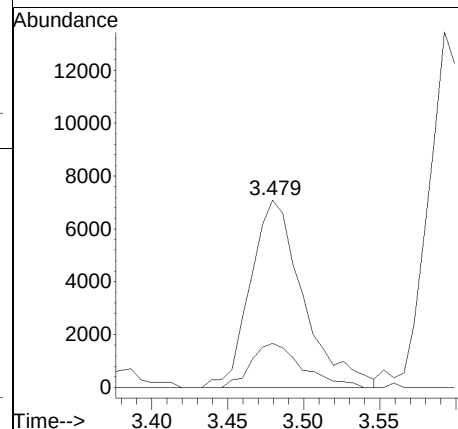
Tgt Ion:	84	Resp:	68657
Ion Ratio	Lower	Upper	
84	100		
86	67.9	41.1	85.5
49	129.9	87.2	181.0

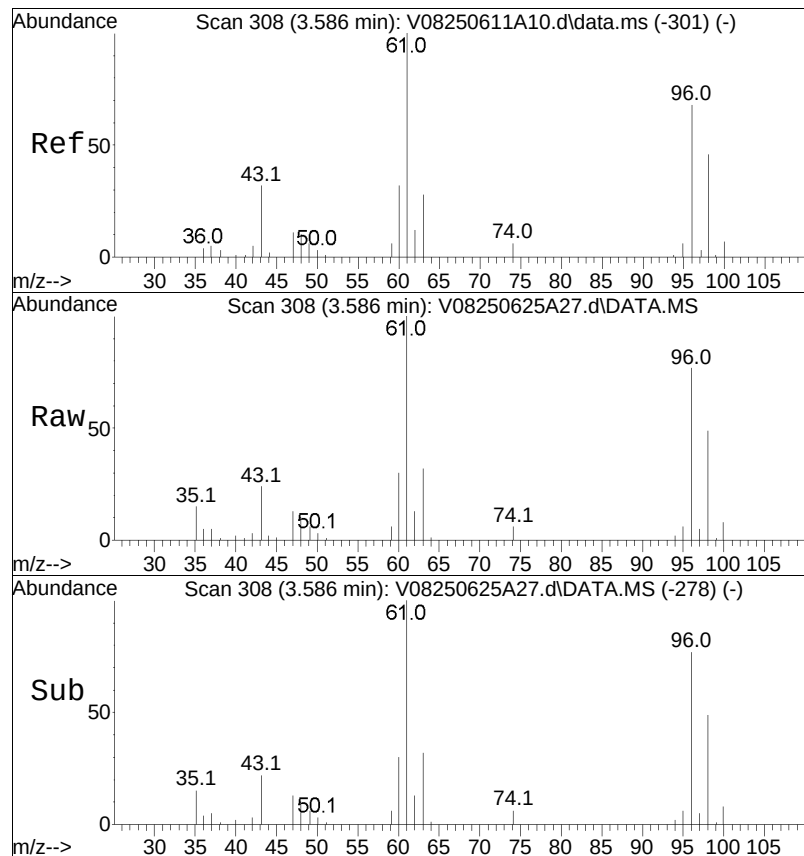




#17
 Acetone
 Concen: 12.40 ug/L
 RT: 3.479 min Scan# 292
 Delta R.T. 0.007 min
 Lab File: V08250625A27.d
 Acq: 25 Jun 2025 5:06 pm

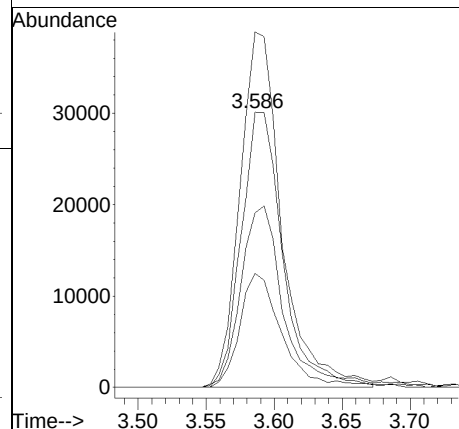
Tgt Ion	Ratio	Lower	Upper
43	100		
58	22.9	21.6	32.4

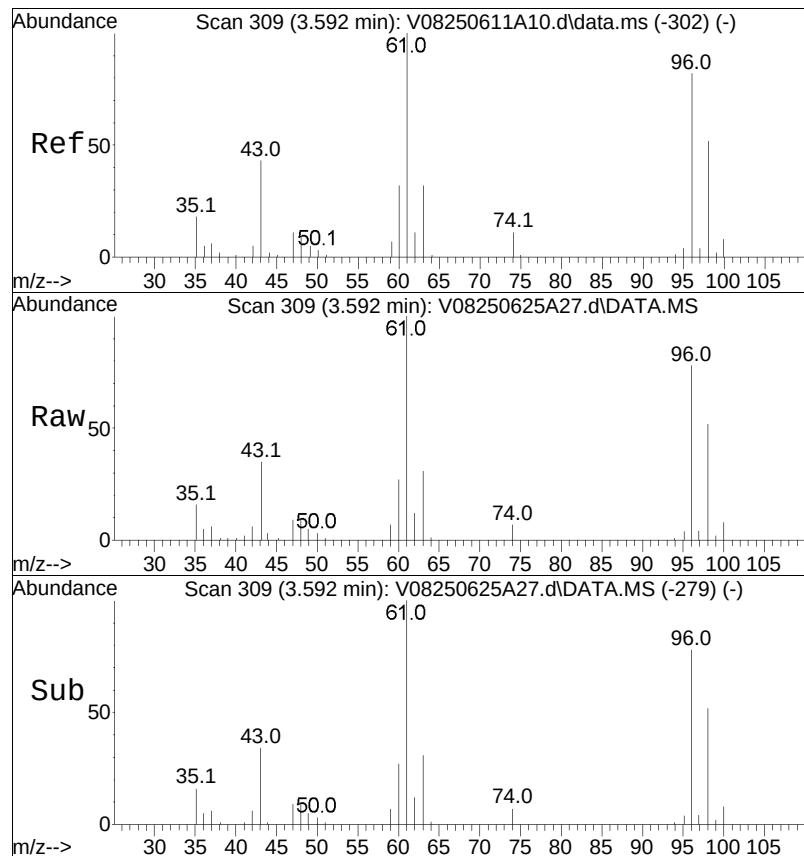




#18
 trans-1,2-Dichloroethene
 Concen: 9.30 ug/L
 RT: 3.586 min Scan# 308
 Delta R.T. -0.000 min
 Lab File: V08250625A27.d
 Acq: 25 Jun 2025 5:06 pm

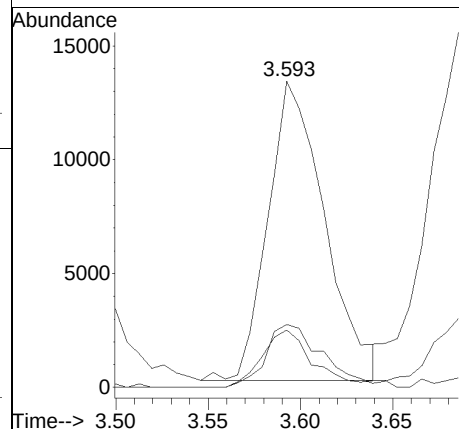
Tgt Ion:	96	Resp:	64589
Ion Ratio	Lower	Upper	
96	100		
61	129.1	90.2	187.4
98	67.7	42.2	87.6
63	42.0	27.6	57.4

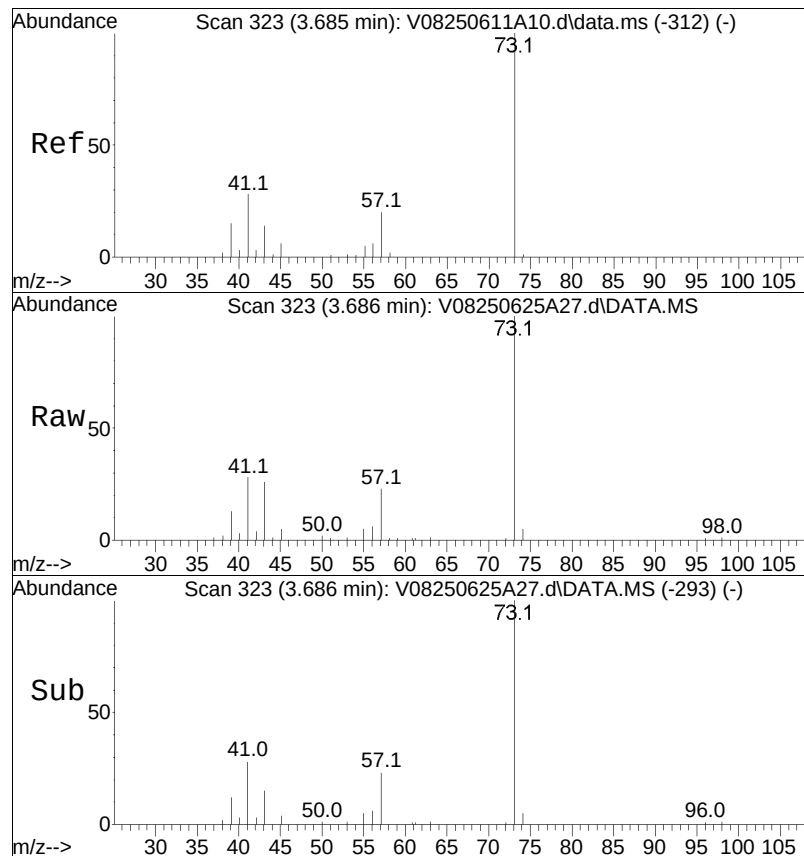




#19
Methyl acetate
Concen: 8.37 ug/L
RT: 3.592 min Scan# 309
Delta R.T. 0.000 min
Lab File: V08250625A27.d
Acq: 25 Jun 2025 5:06 pm

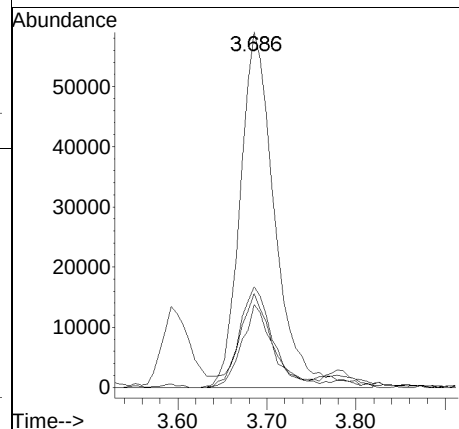
Tgt Ion:	43	Resp:	28084
Ion Ratio	Lower	Upper	
43	100		
74	20.8	17.8	26.8
59	18.0	14.7	22.1

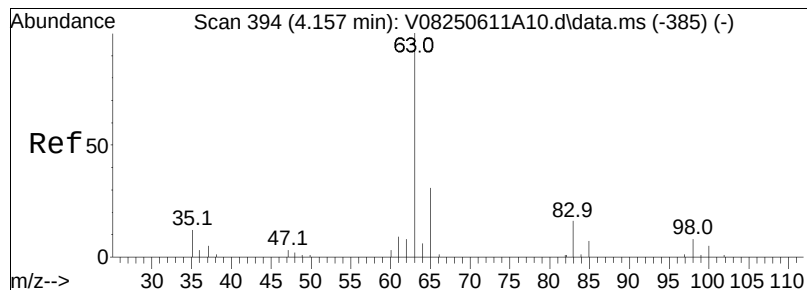




#20
Methyl tert-butyl ether
Concen: 9.48 ug/L
RT: 3.686 min Scan# 323
Delta R.T. 0.001 min
Lab File: V08250625A27.d
Acq: 25 Jun 2025 5:06 pm

Tgt Ion:	73	Resp:	159146
Ion	Ratio	Lower	Upper
73	100		
57	21.1	13.6	28.2
43	23.6	15.7	32.5
41	27.2	18.0	37.4





#23

1,1-Dichloroethane

Concen: 12.02 ug/L

RT: 4.158 min Scan# 394

Delta R.T. 0.001 min

Lab File: V08250625A27.d

Acq: 25 Jun 2025 5:06 pm

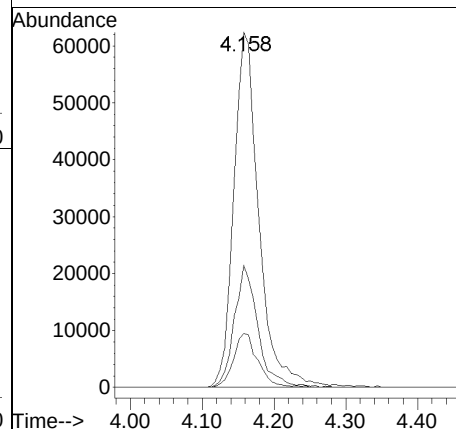
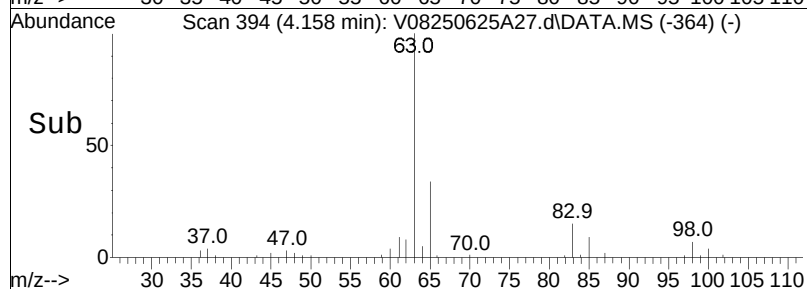
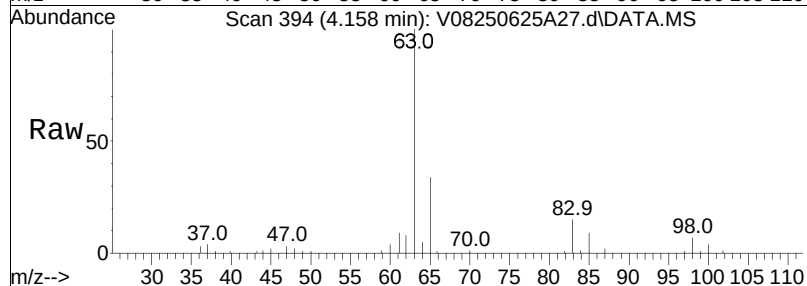
Tgt Ion: 63 Resp: 152028

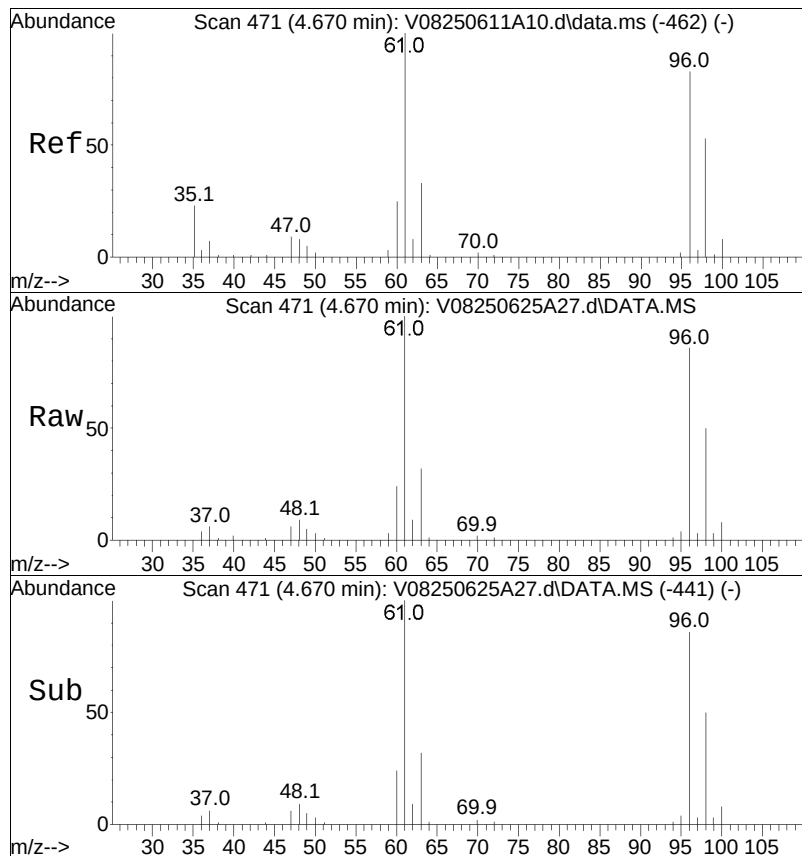
Ion Ratio Lower Upper

63 100

65 32.3 12.4 52.4

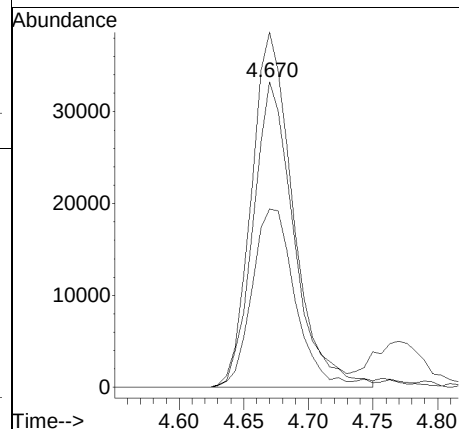
83 14.6 0.0 33.8

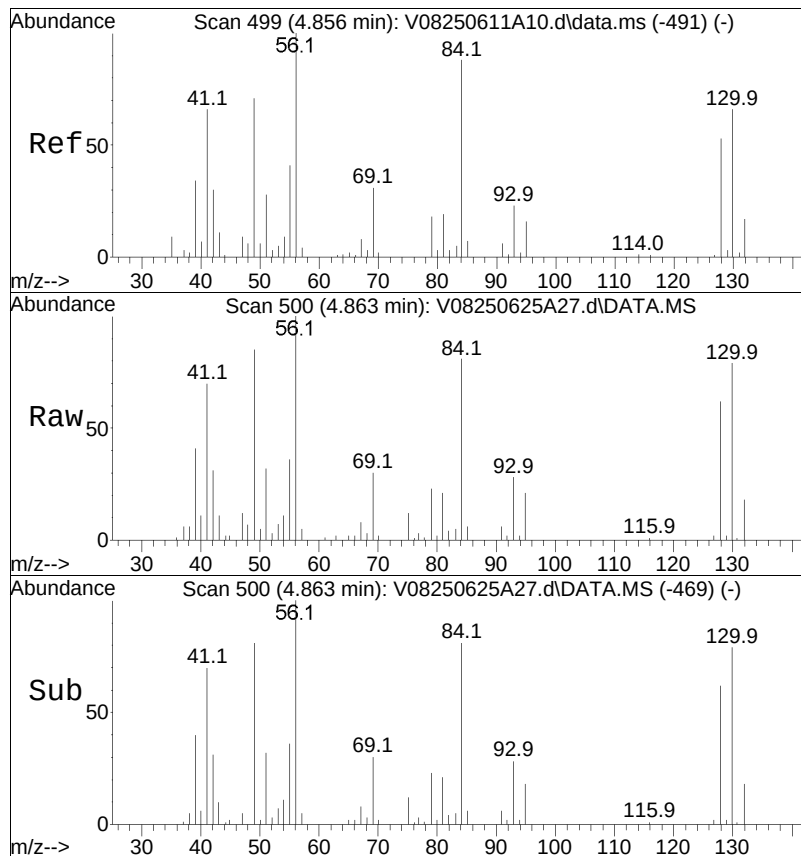




#28
 cis-1,2-Dichloroethene
 Concen: 9.23 ug/L
 RT: 4.670 min Scan# 471
 Delta R.T. -0.000 min
 Lab File: V08250625A27.d
 Acq: 25 Jun 2025 5:06 pm

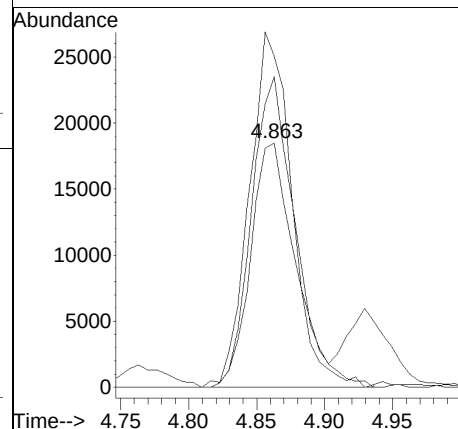
Tgt Ion:	96	Resp:	73328
Ion Ratio	Lower	Upper	
96	100		
61	117.7	93.7	140.5
98	61.6	50.3	75.5

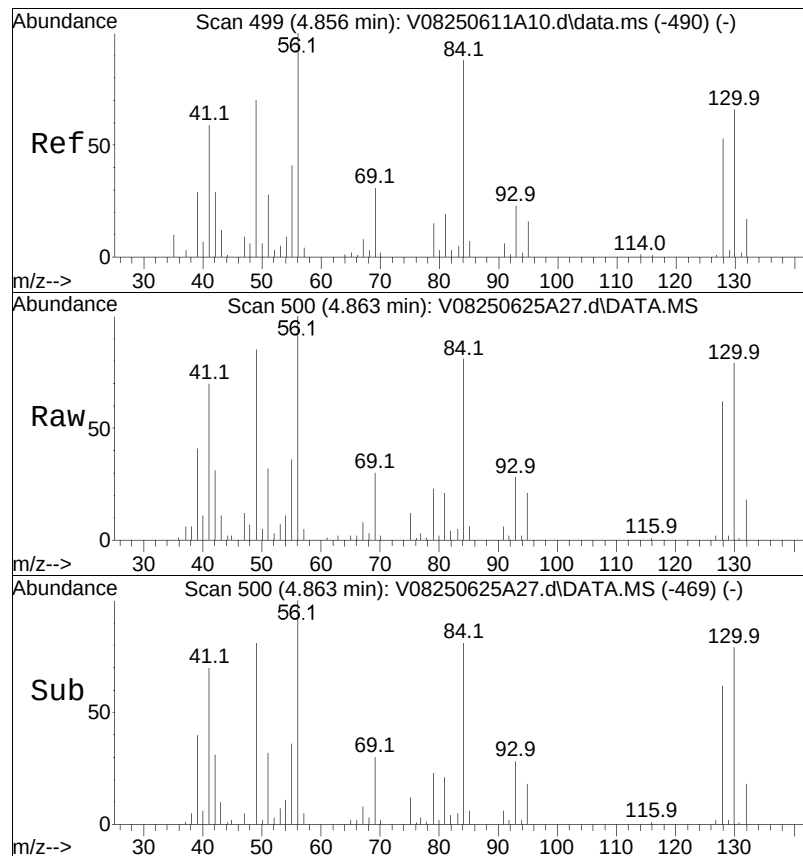




#30
 Bromochloromethane
 Concen: 9.08 ug/L
 RT: 4.863 min Scan# 500
 Delta R.T. 0.007 min
 Lab File: V08250625A27.d
 Acq: 25 Jun 2025 5:06 pm

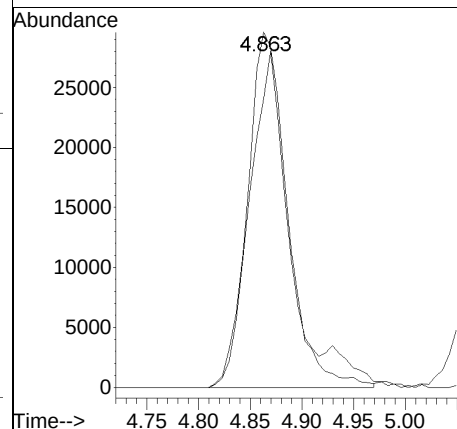
Tgt Ion:	128	Resp:	41701
Ion Ratio	Lower	Upper	
128	100		
49	141.7	119.6	179.4
130	126.1	100.7	151.1

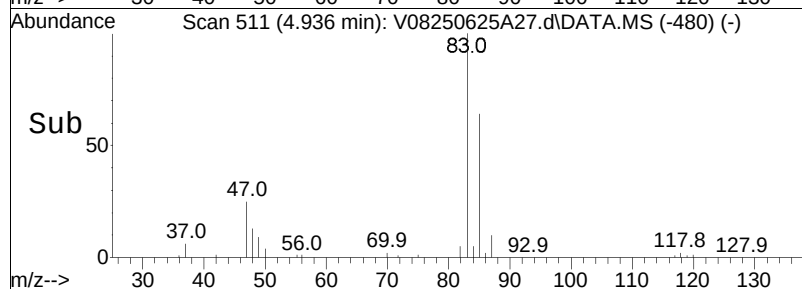
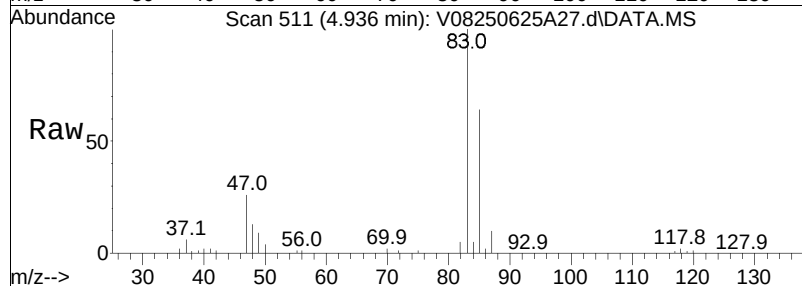
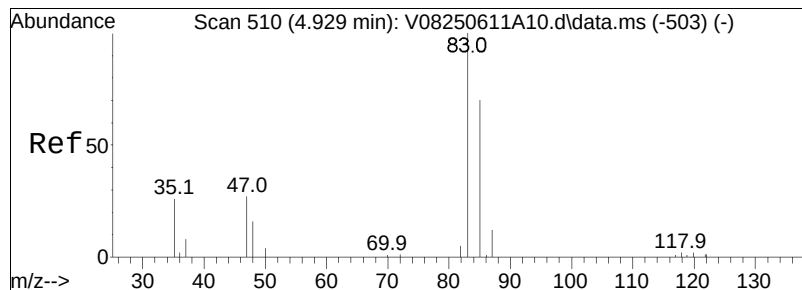




#31
 Cyclohexane
 Concen: 7.76 ug/L
 RT: 4.863 min Scan# 500
 Delta R.T. 0.007 min
 Lab File: V08250625A27.d
 Acq: 25 Jun 2025 5:06 pm

Tgt	Ion	Ratio	Lower	Upper
56	100			
84	87.6	55.3	114.8	





#32

Chloroform

Concen: 9.15 ug/L

RT: 4.936 min Scan# 511

Delta R.T. 0.007 min

Lab File: V08250625A27.d

Acq: 25 Jun 2025 5:06 pm

Tgt Ion: 83 Resp: 129718

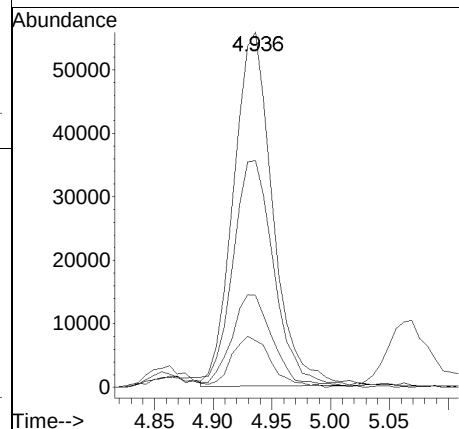
Ion Ratio Lower Upper

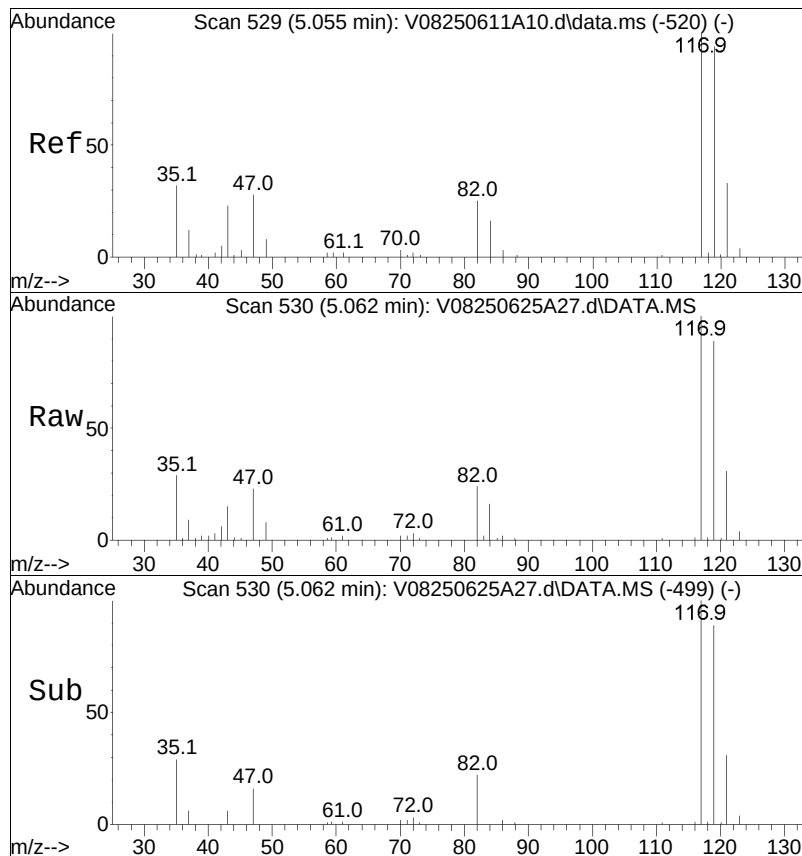
83 100

85 66.8 42.1 87.3

47 25.9 17.7 36.7

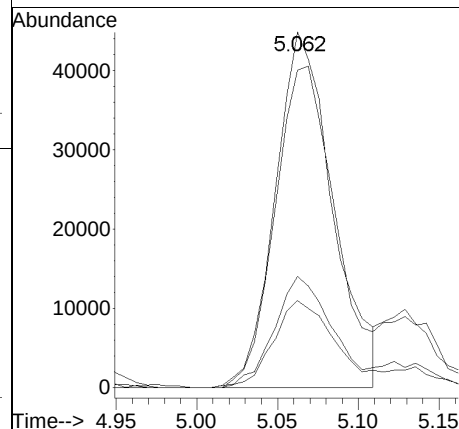
48 14.5 9.1 18.9

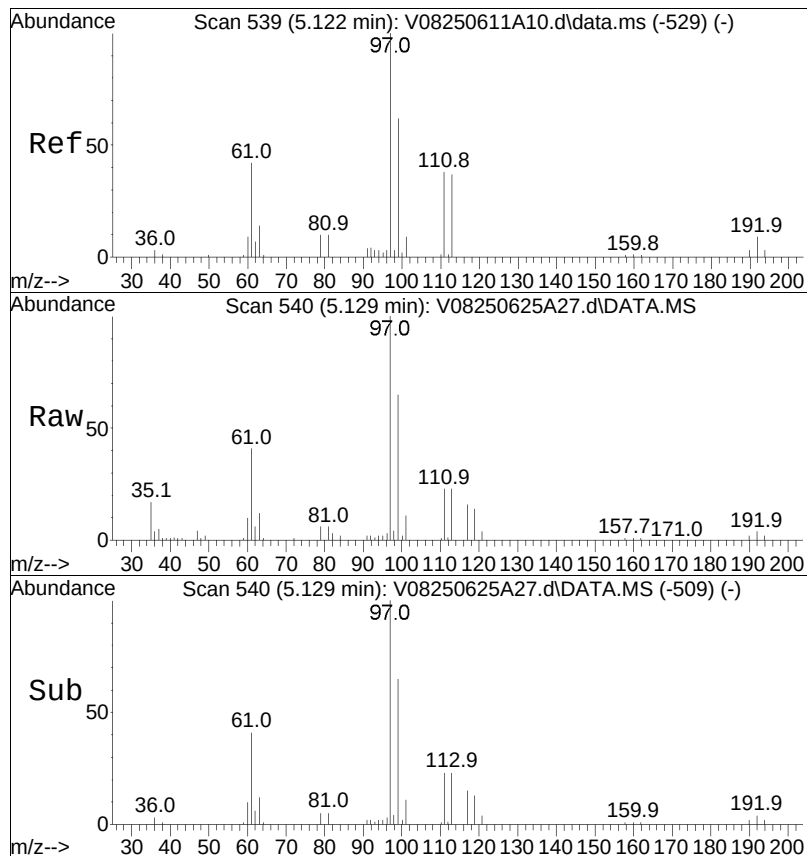




#34
 Carbon tetrachloride
 Concen: 9.62 ug/L
 RT: 5.062 min Scan# 530
 Delta R.T. 0.007 min
 Lab File: V08250625A27.d
 Acq: 25 Jun 2025 5:06 pm

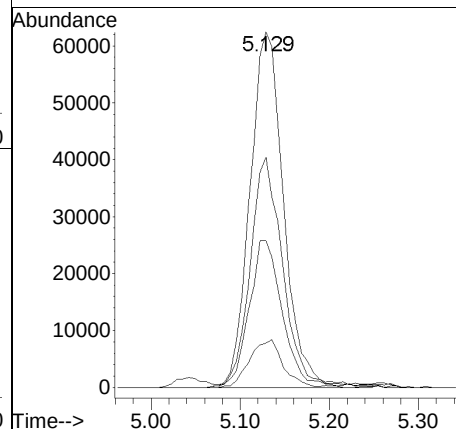
Tgt Ion:	117	Resp:	110939
Ion Ratio	Lower	Upper	
117	100		
119	94.7	61.4	127.6
121	31.7	20.5	42.7
82	26.6	16.3	33.8

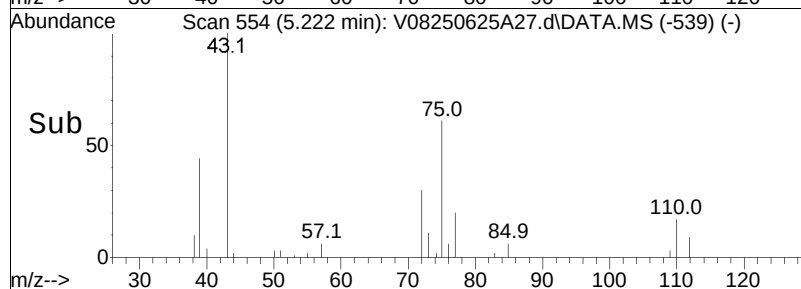
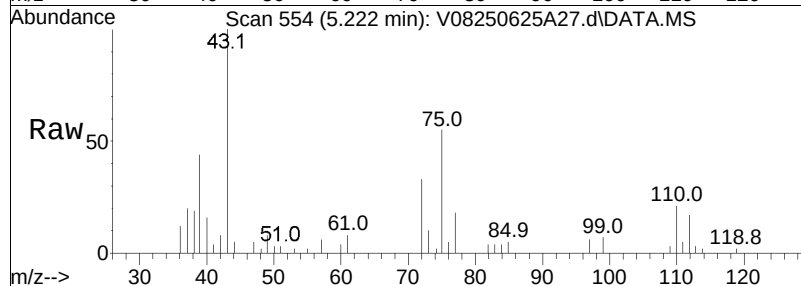
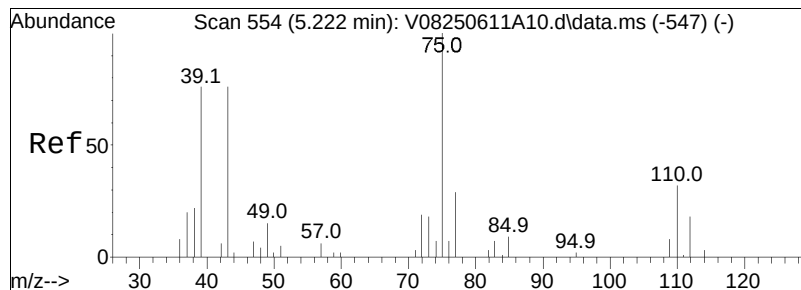




#37
 1,1,1-Trichloroethane
 Concen: 13.99 ug/L
 RT: 5.129 min Scan# 540
 Delta R.T. 0.007 min
 Lab File: V08250625A27.d
 Acq: 25 Jun 2025 5:06 pm

Tgt Ion: 97	Resp: 165001
Ion Ratio	Lower Upper
97 100	
99 62.6	40.2 83.4
61 40.5	28.6 59.4
63 13.2	9.2 19.2





#39

2-Butanone

Concen: 9.97 ug/L

RT: 5.222 min Scan# 554

Delta R.T. -0.000 min

Lab File: V08250625A27.d

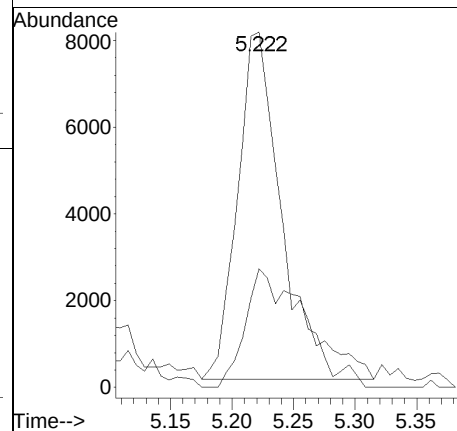
Acq: 25 Jun 2025 5:06 pm

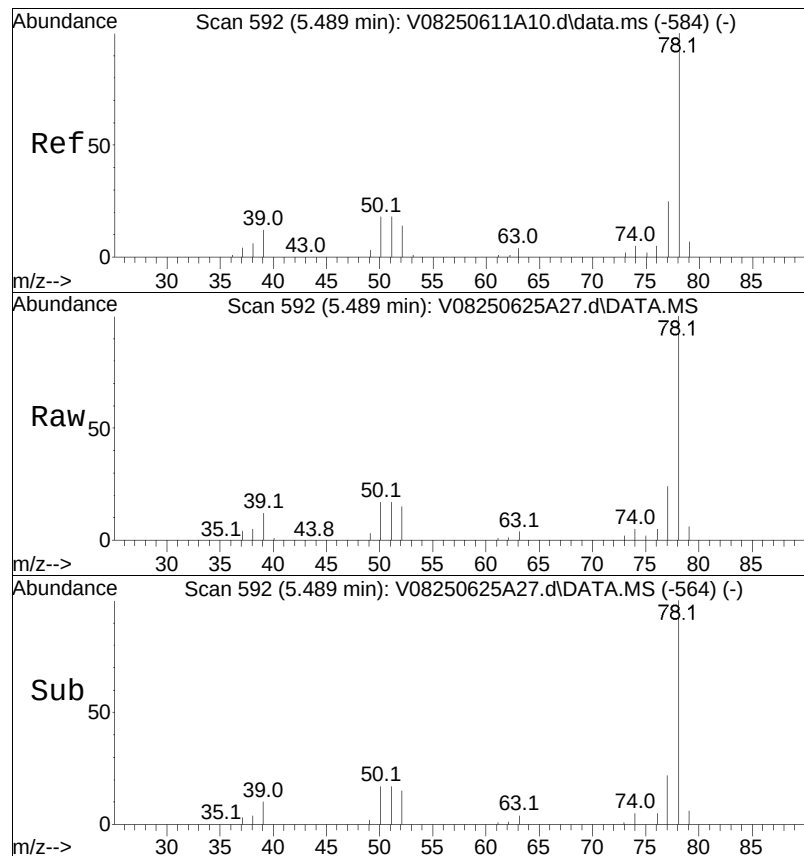
Tgt Ion: 43 Resp: 20607

Ion Ratio Lower Upper

43 100

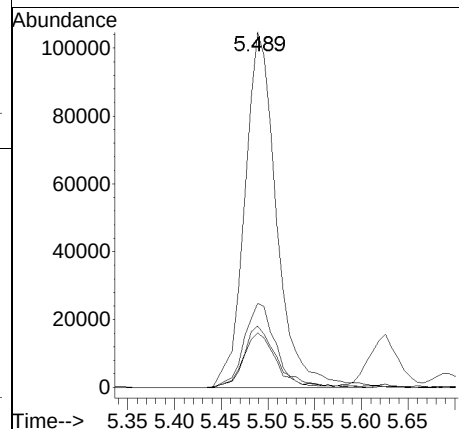
72 43.7 38.2 57.4

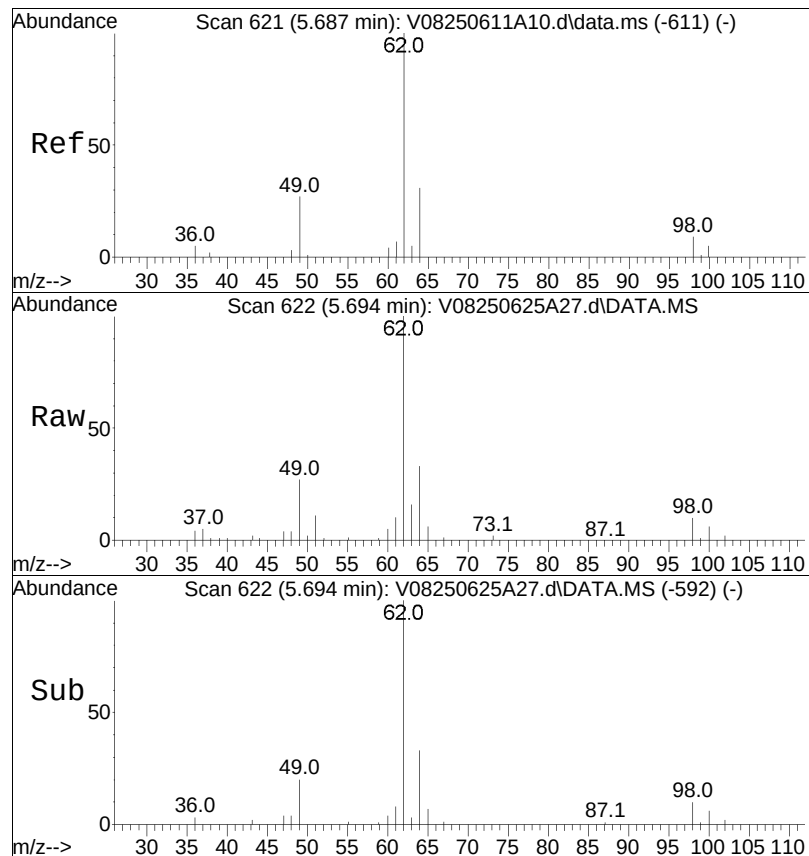




#41
Benzene
Concen: 9.38 ug/L
RT: 5.489 min Scan# 592
Delta R.T. -0.000 min
Lab File: V08250625A27.d
Acq: 25 Jun 2025 5:06 pm

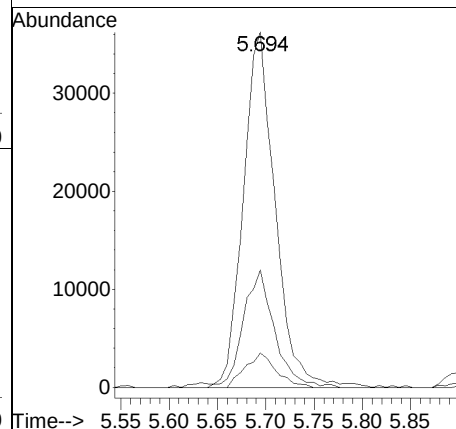
Tgt Ion:	78	Resp:	262714
Ion	Ratio	Lower	Upper
78	100		
77	24.1	15.7	32.7
51	17.8	12.4	25.7
52	15.8	10.6	22.0

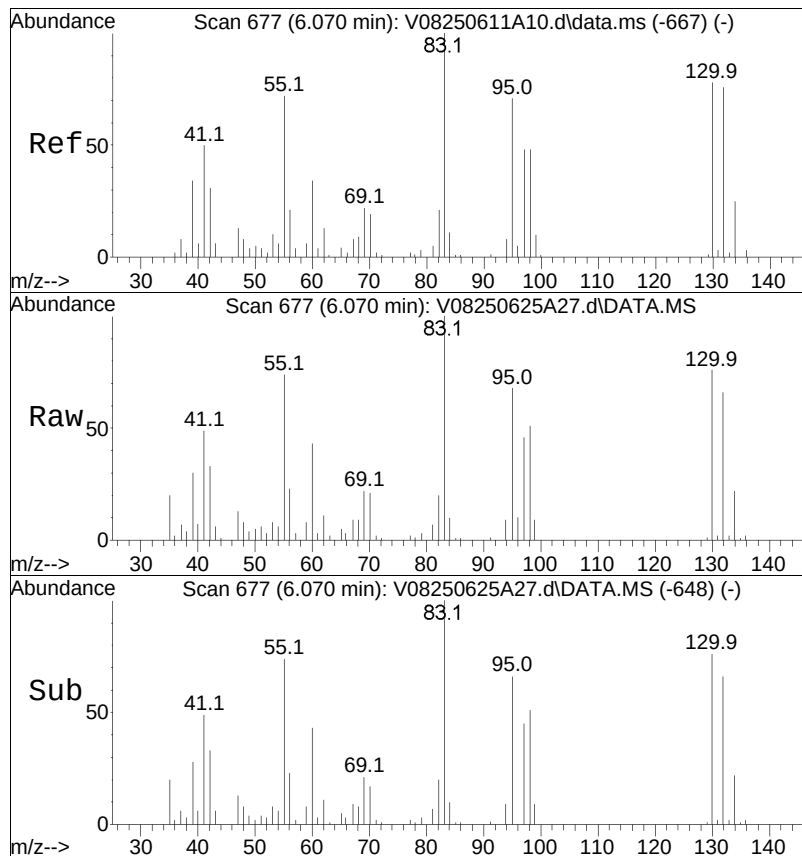




#44
 1,2-Dichloroethane
 Concen: 9.58 ug/L
 RT: 5.694 min Scan# 622
 Delta R.T. 0.007 min
 Lab File: V08250625A27.d
 Acq: 25 Jun 2025 5:06 pm

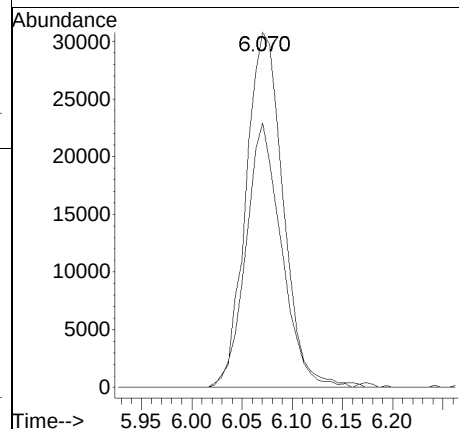
Tgt	Ion	Ratio	Lower	Upper
62	100			
64	32.2	11.3	51.3	
98	9.4	0.0	29.3	

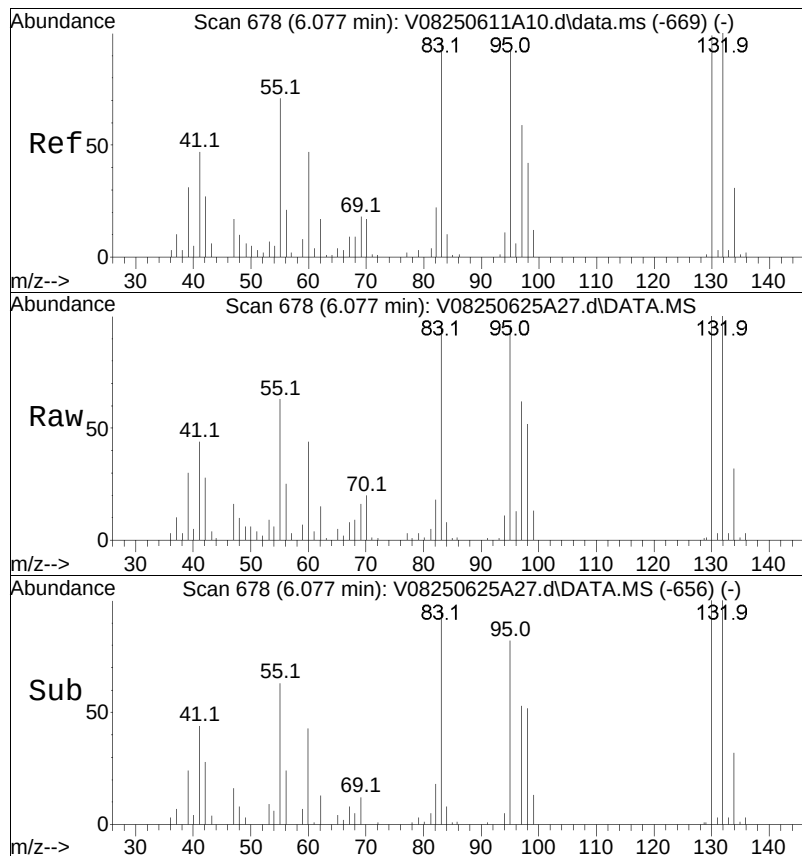




#47
Methyl cyclohexane
Concen: 7.57 ug/L
RT: 6.070 min Scan# 677
Delta R.T. 0.000 min
Lab File: V08250625A27.d
Acq: 25 Jun 2025 5:06 pm

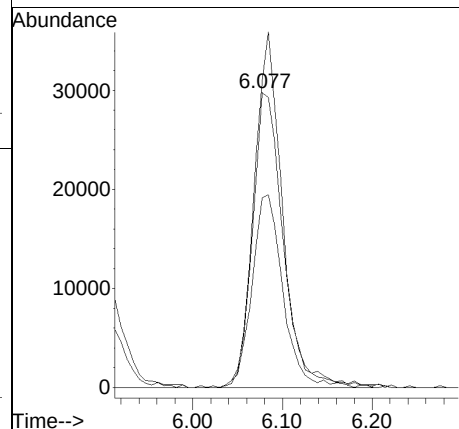
Tgt Ion	Ratio	Lower	Upper
83	100		
55	71.2	62.4	93.6

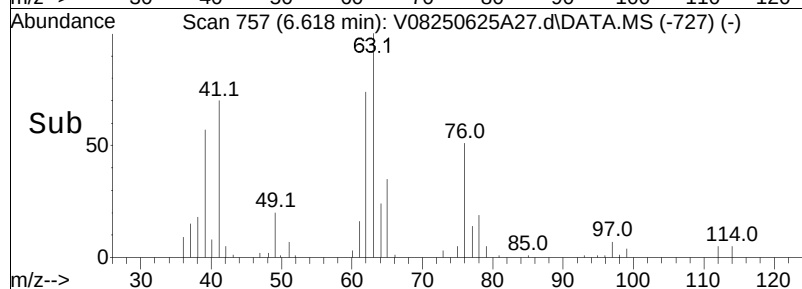
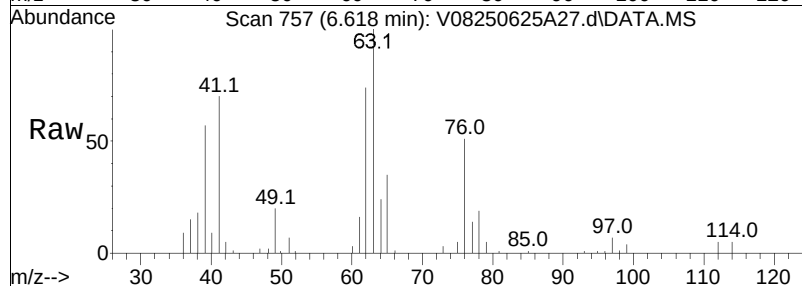
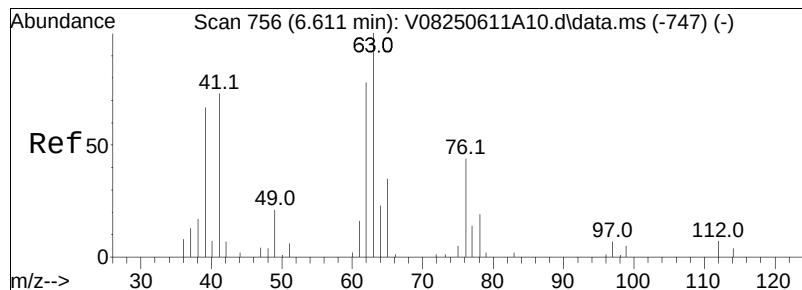




#48
 Trichloroethene
 Concen: 9.20 ug/L
 RT: 6.077 min Scan# 678
 Delta R.T. 0.000 min
 Lab File: V08250625A27.d
 Acq: 25 Jun 2025 5:06 pm

Tgt Ion	Ratio	Lower	Upper
95	100		
97	65.7	54.7	82.1
130	111.8	84.7	127.1





#51

1,2-Dichloropropane

Concen: 9.19 ug/L

RT: 6.618 min Scan# 757

Delta R.T. 0.007 min

Lab File: V08250625A27.d

Acq: 25 Jun 2025 5:06 pm

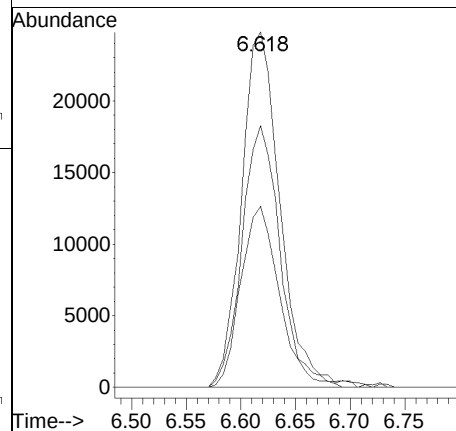
Tgt Ion: 63 Resp: 61188

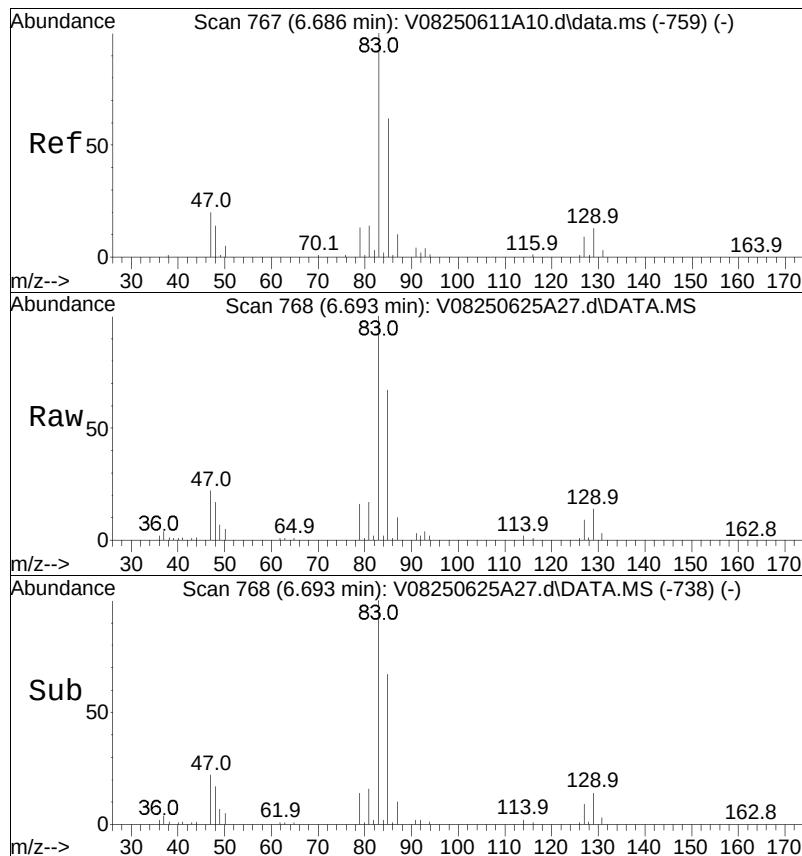
Ion Ratio Lower Upper

63 100

62 73.2 58.2 87.4

76 50.8 35.9 53.9





#54

Bromodichloromethane

Concen: 9.70 ug/L

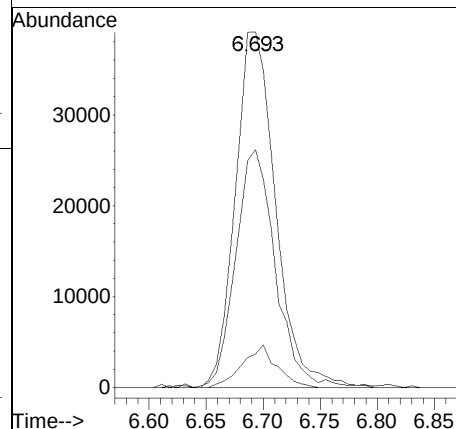
RT: 6.693 min Scan# 768

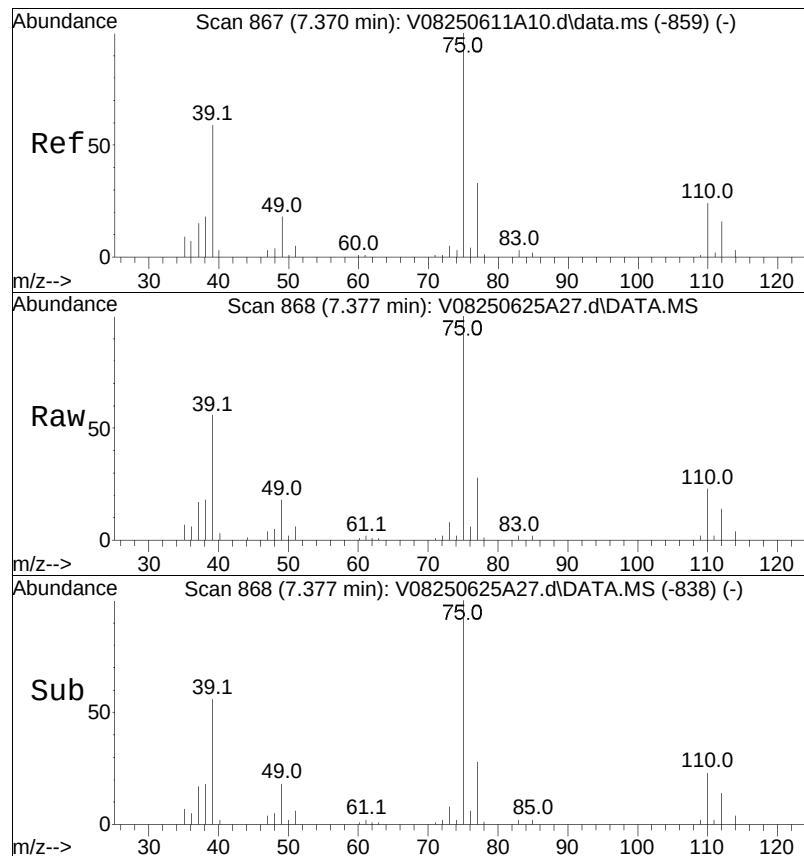
Delta R.T. 0.007 min

Lab File: V08250625A27.d

Acq: 25 Jun 2025 5:06 pm

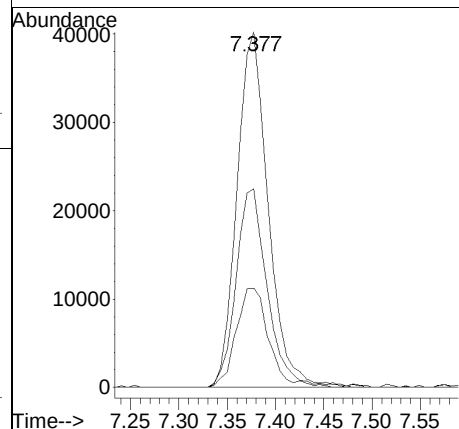
Tgt	Ion: 83	Resp:	96277
Ion	Ratio	Lower	Upper
83	100		
85	65.8	53.0	79.6
127	10.1	7.8	11.6

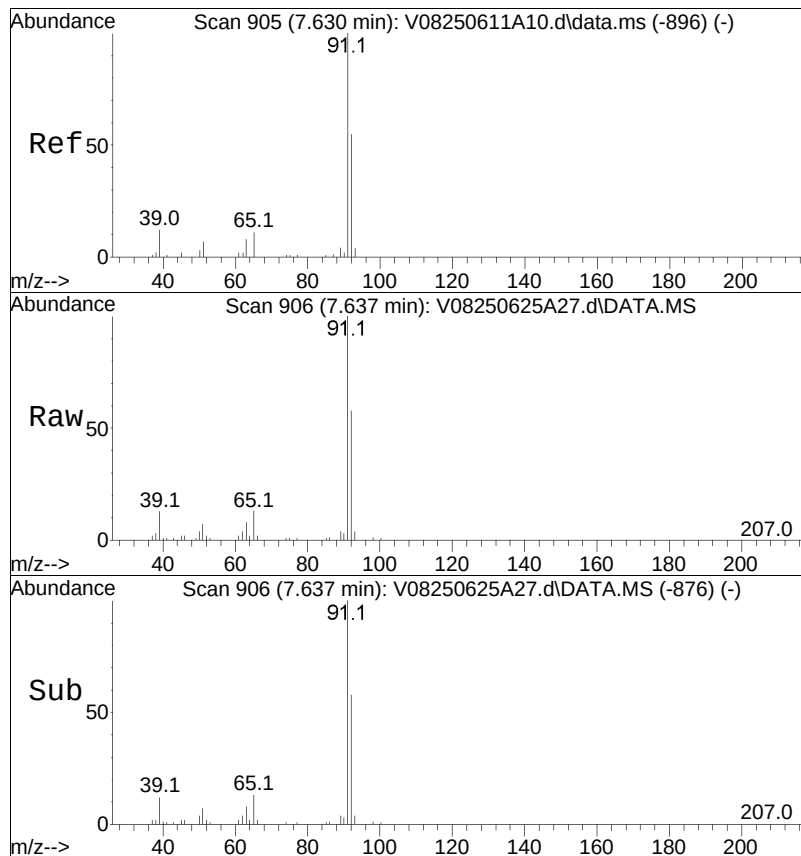




#58
 cis-1,3-Dichloropropene
 Concen: 9.06 ug/L
 RT: 7.377 min Scan# 868
 Delta R.T. 0.007 min
 Lab File: V08250625A27.d
 Acq: 25 Jun 2025 5:06 pm

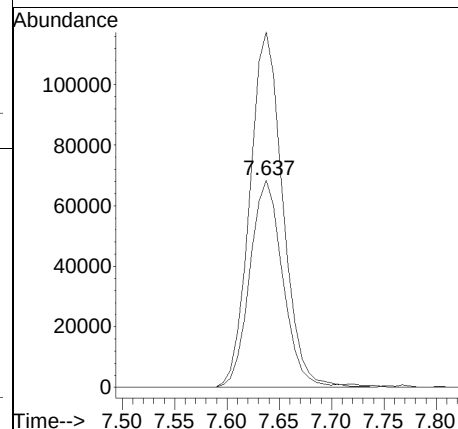
Tgt Ion	Ratio	Lower	Upper
75	100		
77	29.2	25.5	38.3
39	56.1	46.9	70.3

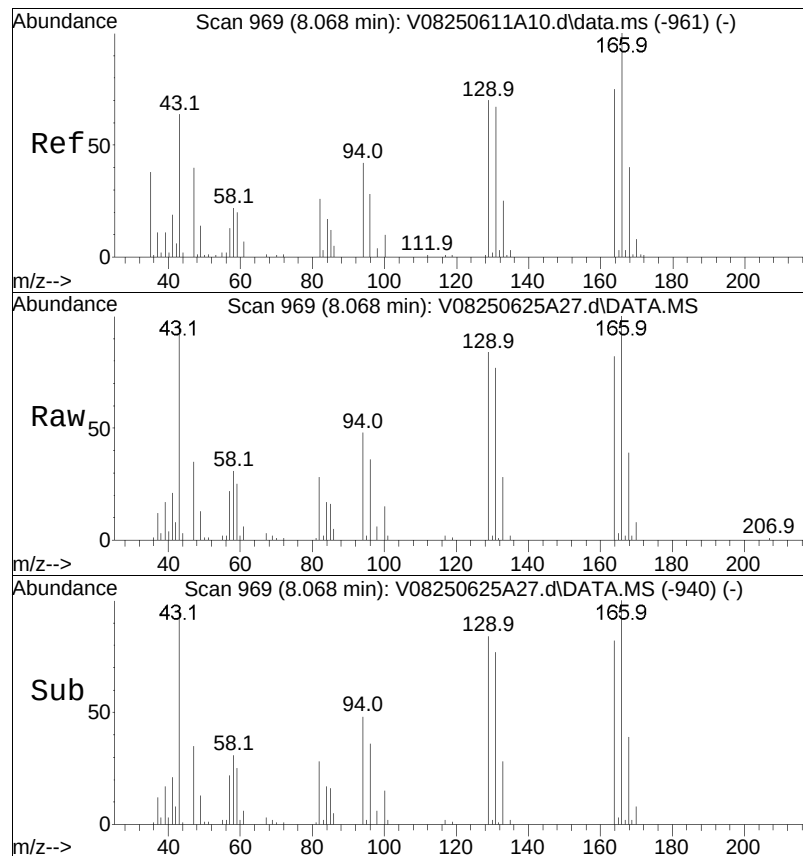




#61
Toluene
Concen: 9.41 ug/L
RT: 7.637 min Scan# 906
Delta R.T. 0.007 min
Lab File: V08250625A27.d
Acq: 25 Jun 2025 5:06 pm

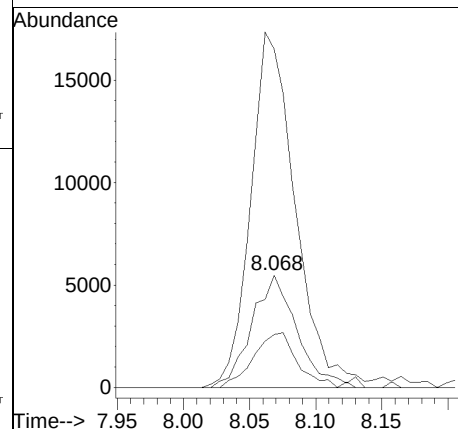
Tgt Ion	Ratio	Lower	Upper
92	100		
91	171.6	140.8	211.2

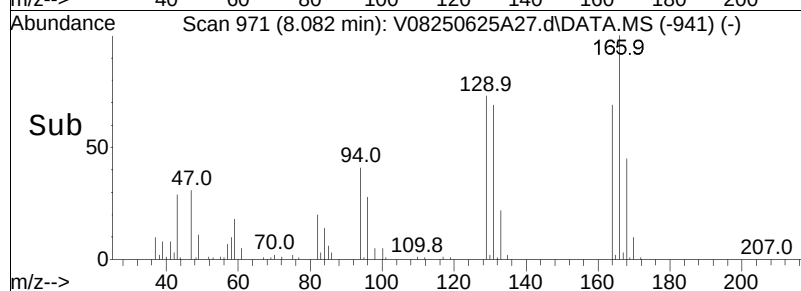
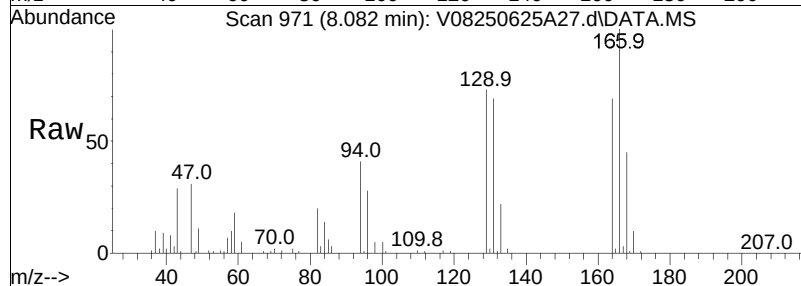
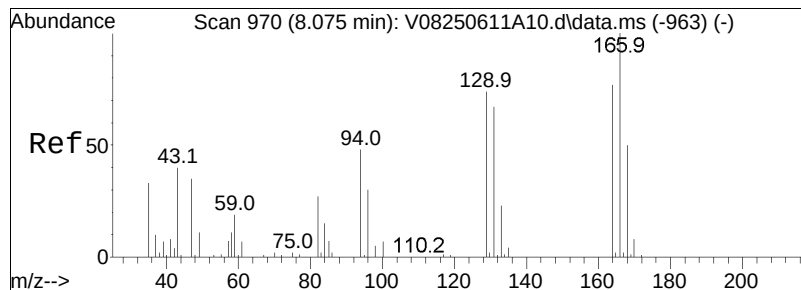




#62
 4-Methyl-2-pentanone
 Concen: 10.06 ug/L
 RT: 8.068 min Scan# 969
 Delta R.T. 0.000 min
 Lab File: V08250625A27.d
 Acq: 25 Jun 2025 5:06 pm

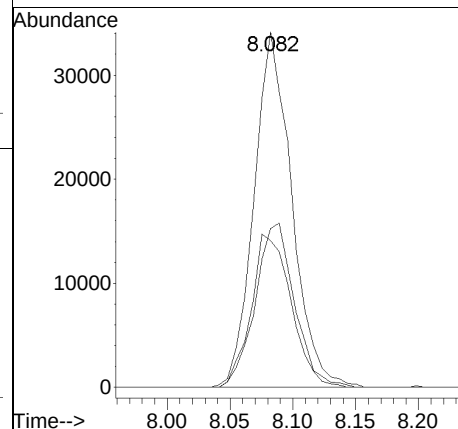
Tgt	Ion	Resp	Lower	Upper
58	100			
100	47.3	33.6	50.4	
43	309.1	271.0	406.6	

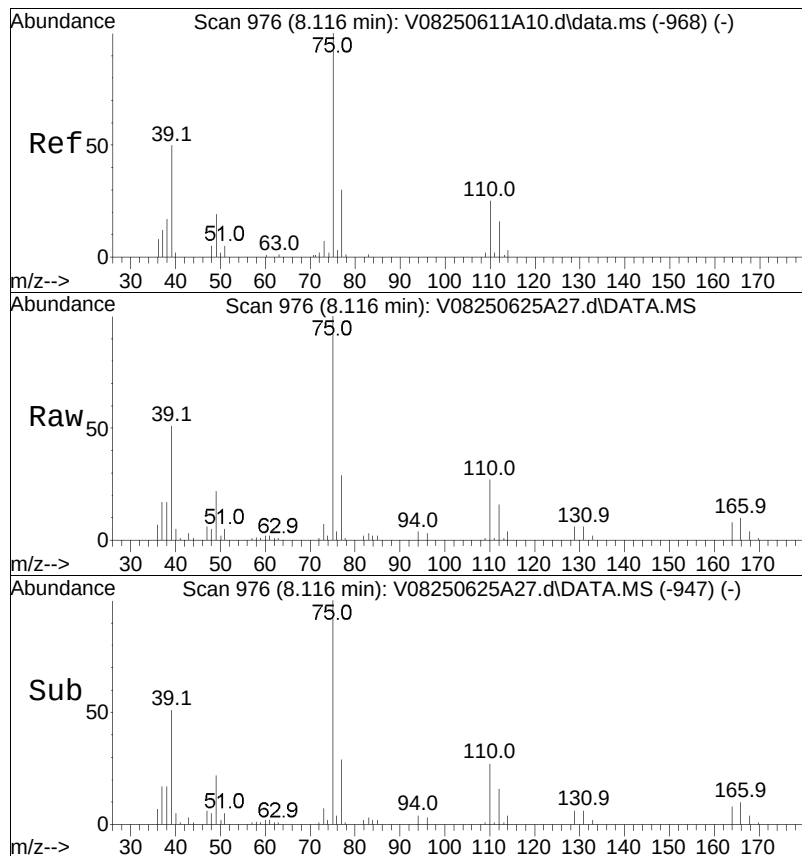




#63
Tetrachloroethene
Concen: 9.50 ug/L
RT: 8.082 min Scan# 971
Delta R.T. 0.007 min
Lab File: V08250625A27.d
Acq: 25 Jun 2025 5:06 pm

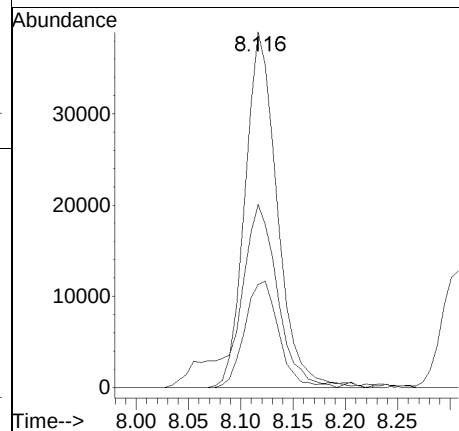
Tgt Ion	Ratio	Resp	Lower	Upper
166	100	71397		
168	48.2		26.2	66.2
94	45.6		23.6	63.6

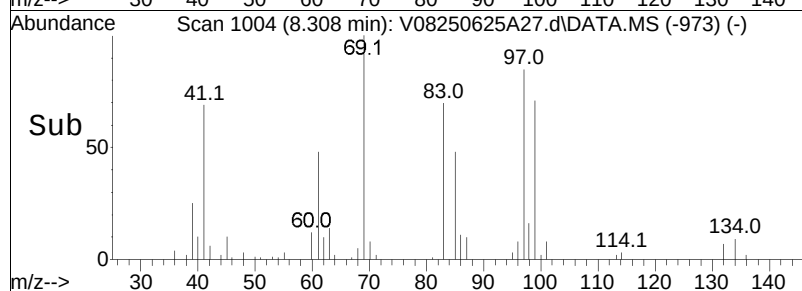
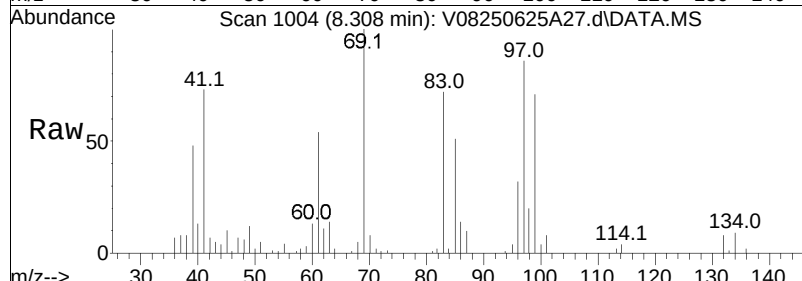
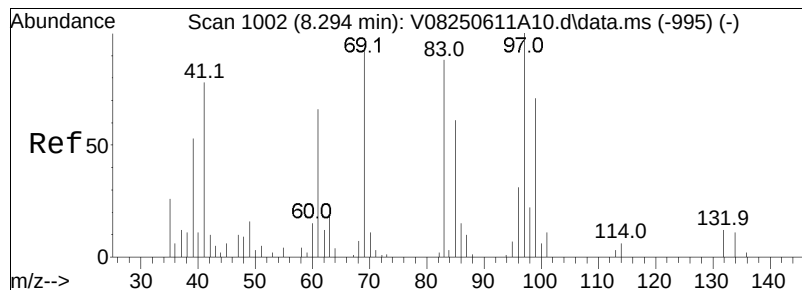




#65
 trans-1,3-Dichloropropene
 Concen: 10.56 ug/L
 RT: 8.116 min Scan# 976
 Delta R.T. 0.000 min
 Lab File: V08250625A27.d
 Acq: 25 Jun 2025 5:06 pm

Tgt	Ion	Ratio	Lower	Upper
75	100			
77	31.4	9.8	49.8	
39	63.8	45.2	85.2	





#68

1,1,2-Trichloroethane

Concen: 10.14 ug/L

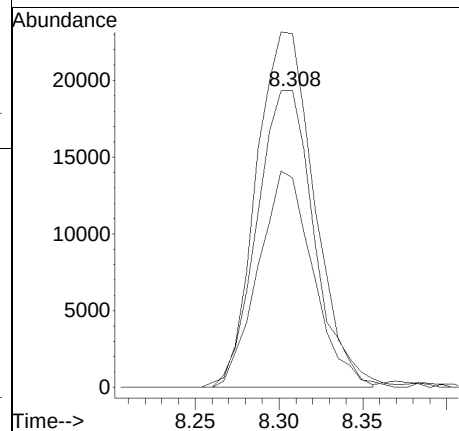
RT: 8.308 min Scan# 1004

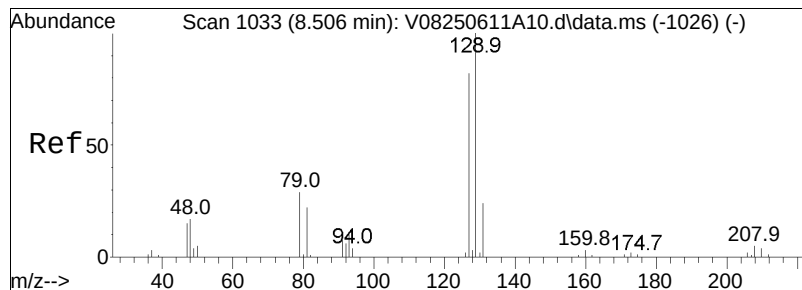
Delta R.T. 0.014 min

Lab File: V08250625A27.d

Acq: 25 Jun 2025 5:06 pm

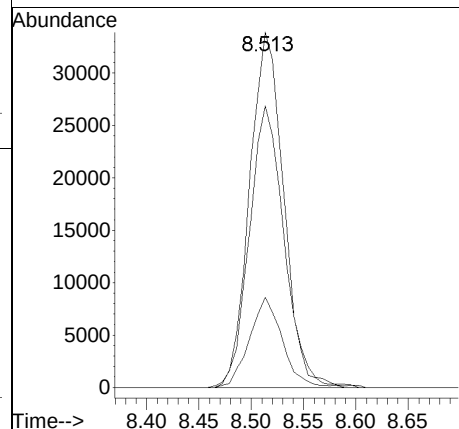
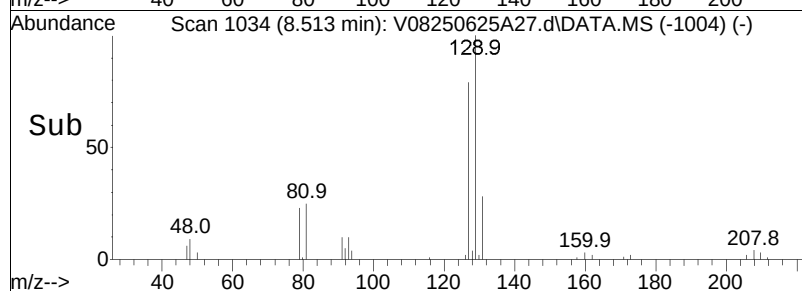
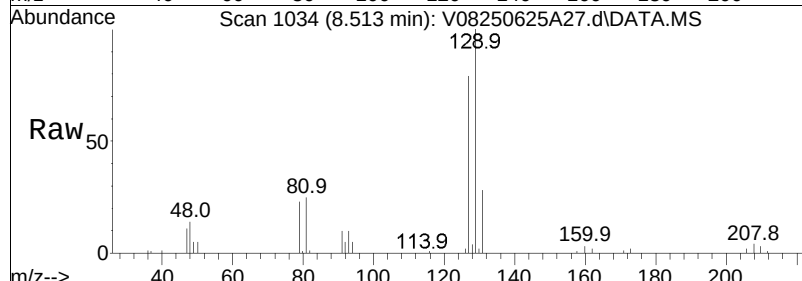
Tgt Ion:	83	Resp:	45577
Ion Ratio	Lower	Upper	
83	100		
97	123.0	98.2	138.2
85	70.7	49.9	89.9

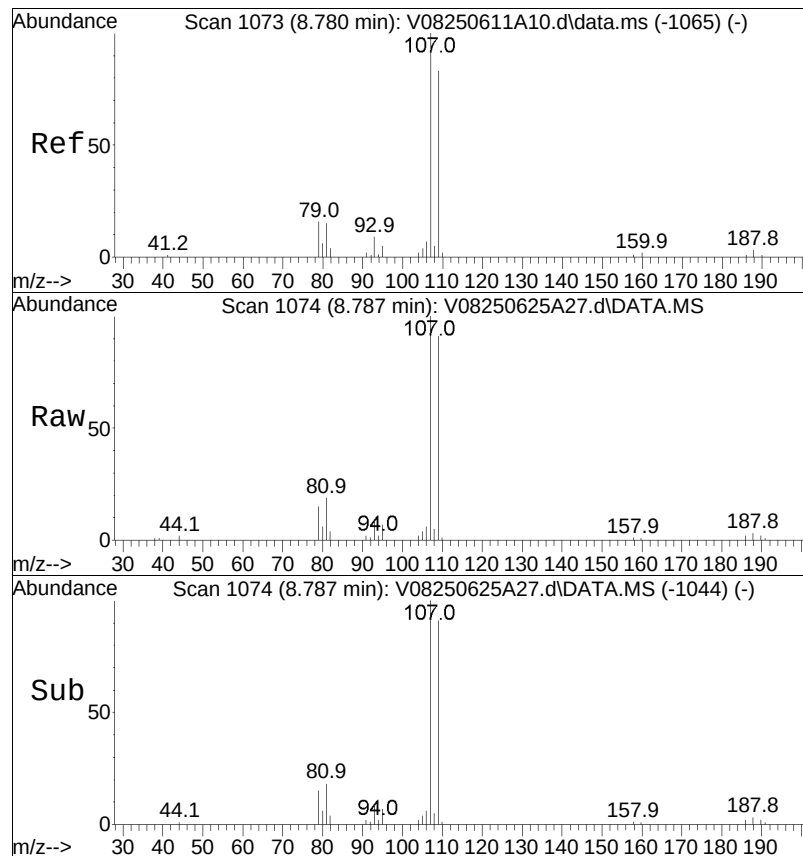




#69
 Chlorodibromomethane
 Concen: 10.38 ug/L
 RT: 8.513 min Scan# 1034
 Delta R.T. 0.007 min
 Lab File: V08250625A27.d
 Acq: 25 Jun 2025 5:06 pm

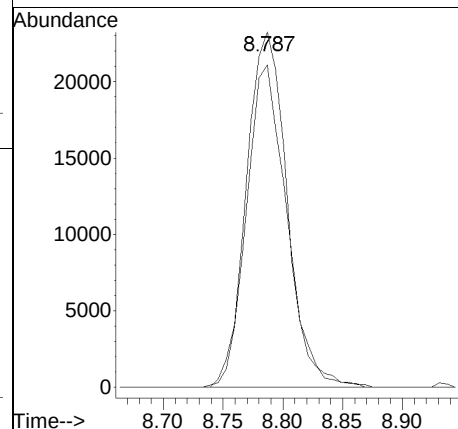
Tgt Ion	Ratio	Lower	Upper
129	100		
81	24.3	3.3	43.3
127	80.1	58.2	98.2

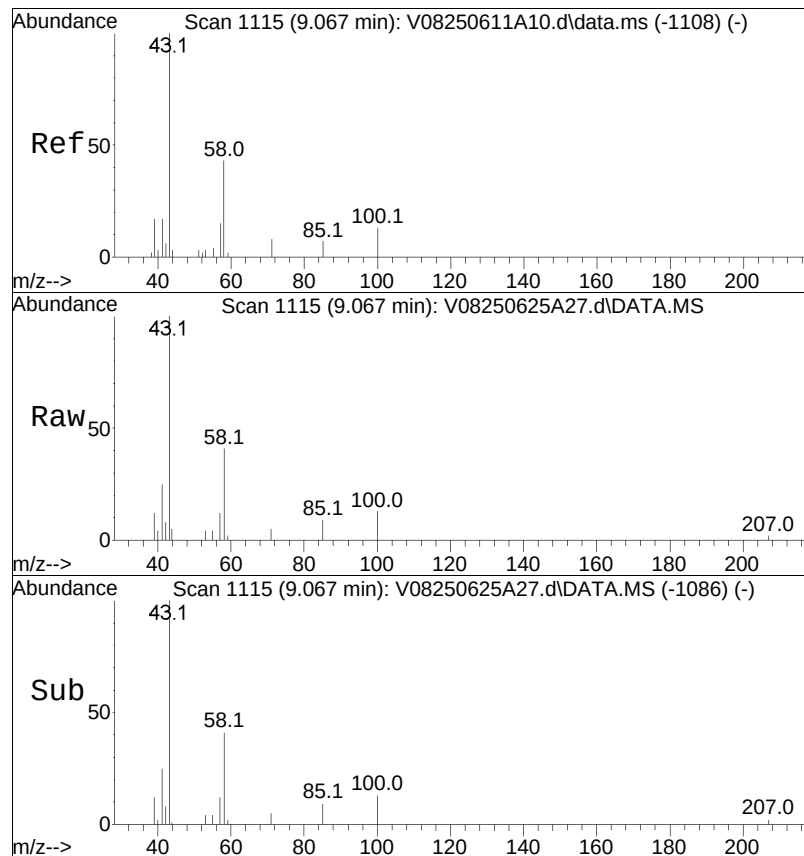




#71
 1,2-Dibromoethane
 Concen: 11.28 ug/L
 RT: 8.787 min Scan# 1074
 Delta R.T. 0.007 min
 Lab File: V08250625A27.d
 Acq: 25 Jun 2025 5:06 pm

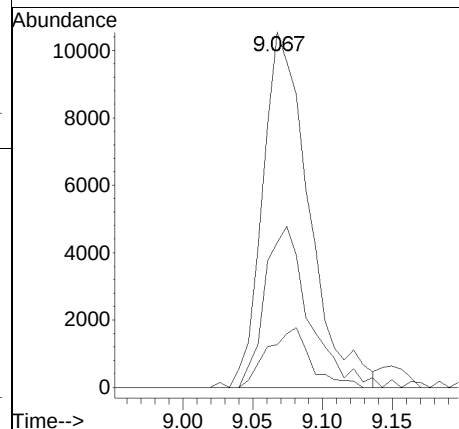
Tgt Ion	Ratio	Lower	Upper
107	100		
109	89.7	73.0	109.4

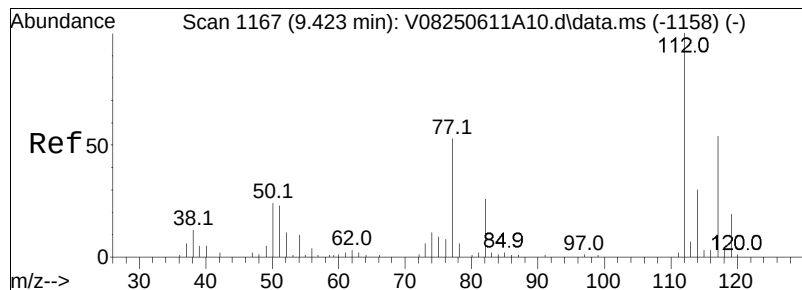




#72
 2-Hexanone
 Concen: 8.85 ug/L
 RT: 9.067 min Scan# 1115
 Delta R.T. 0.000 min
 Lab File: V08250625A27.d
 Acq: 25 Jun 2025 5:06 pm

Tgt Ion:	43	Resp:	24312
Ion Ratio	Lower	Upper	
43	100		
58	43.5	33.5	50.3
57	15.7	12.6	18.8





#73

Chlorobenzene

Concen: 9.36 ug/L

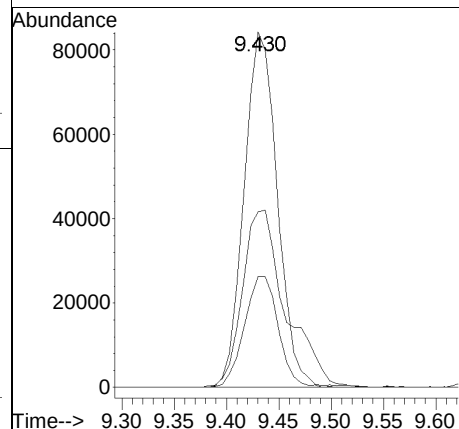
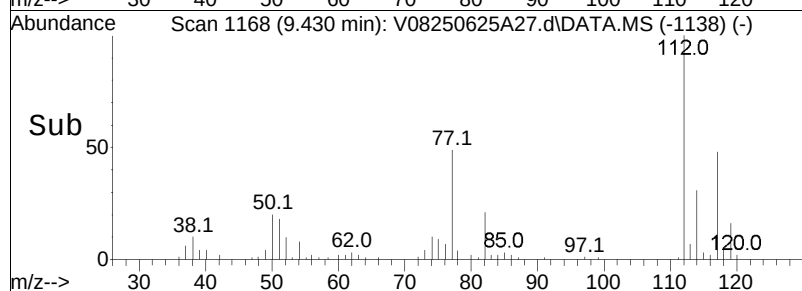
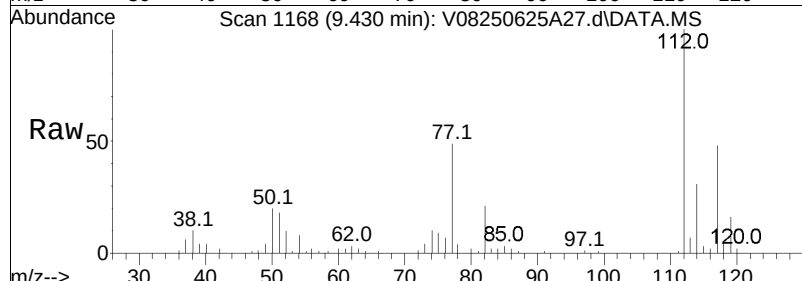
RT: 9.430 min Scan# 1168

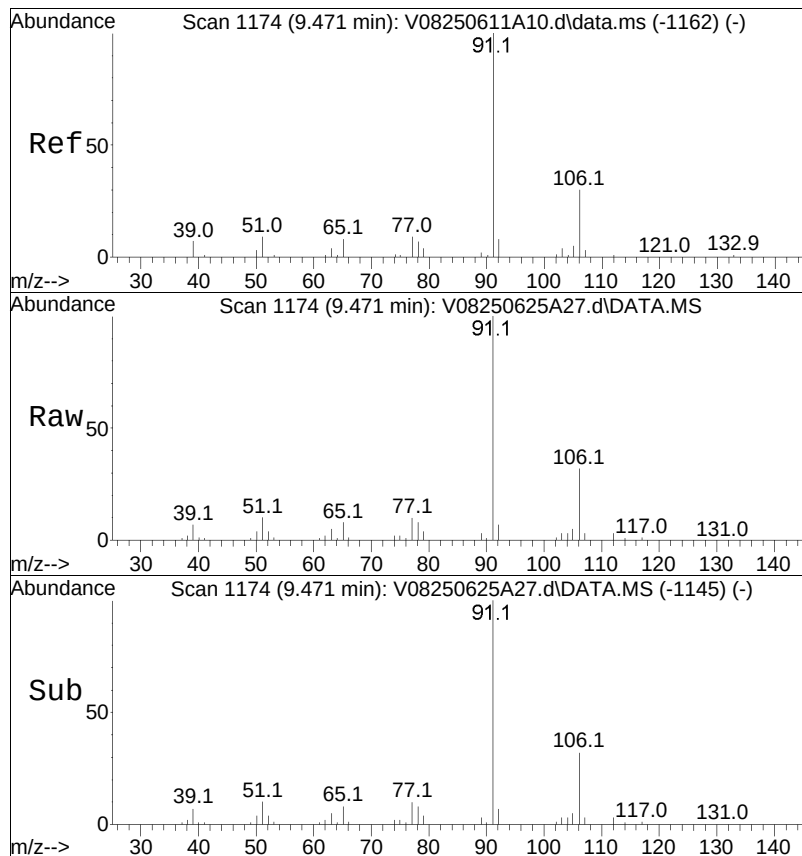
Delta R.T. 0.007 min

Lab File: V08250625A27.d

Acq: 25 Jun 2025 5:06 pm

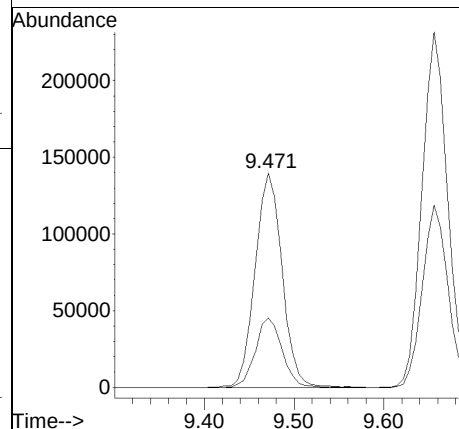
Tgt	Ion:112	Resp:	186931
Ion	Ratio	Lower	Upper
112	100		
77	64.7	55.3	82.9
114	31.7	25.4	38.2

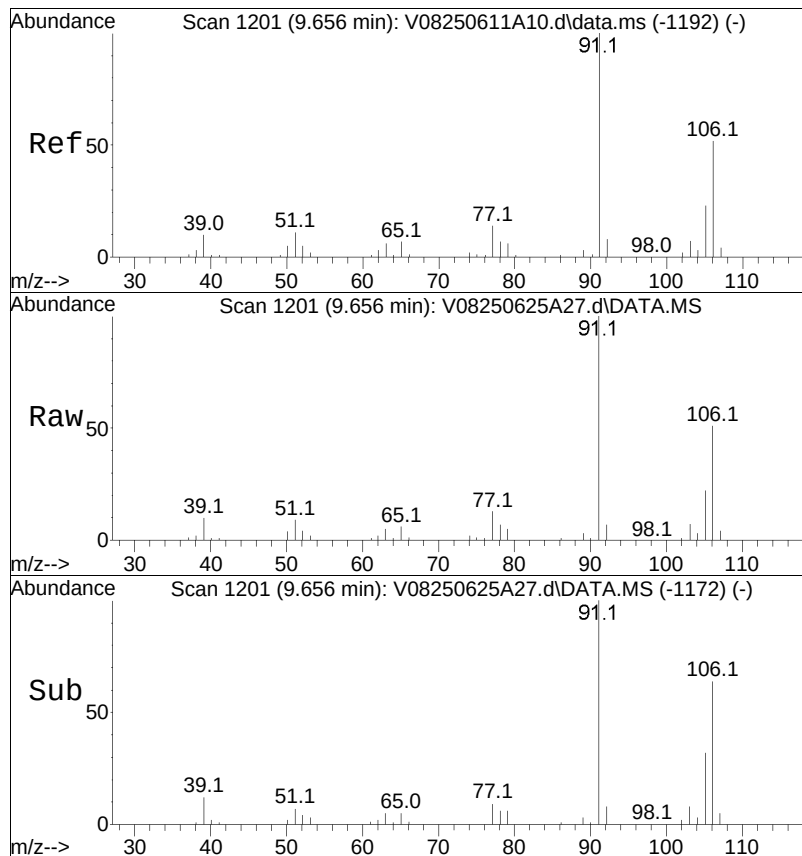




#74
 Ethylbenzene
 Concen: 9.13 ug/L
 RT: 9.471 min Scan# 1174
 Delta R.T. 0.000 min
 Lab File: V08250625A27.d
 Acq: 25 Jun 2025 5:06 pm

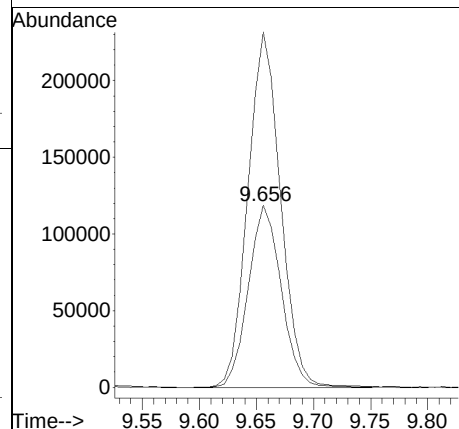
Tgt	Ion	Resp	Lower	Upper
91	100	292585		
106	32.0	25.4	38.0	

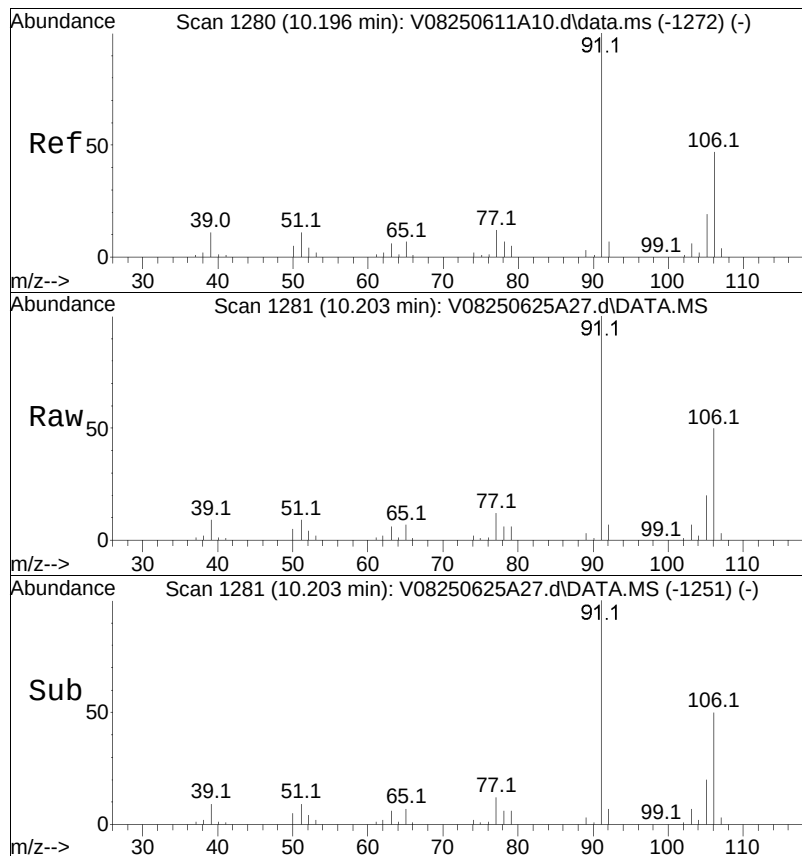




#76
 p/m Xylene
 Concen: 16.96 ug/L
 RT: 9.656 min Scan# 1201
 Delta R.T. -0.000 min
 Lab File: V08250625A27.d
 Acq: 25 Jun 2025 5:06 pm

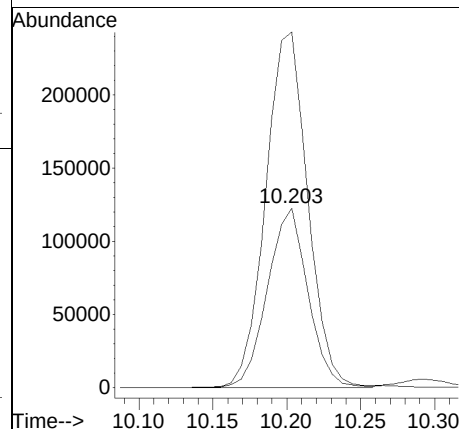
Tgt	Ion	Ratio	Lower	Upper
106	100			
91	194.1	155.4	233.2	

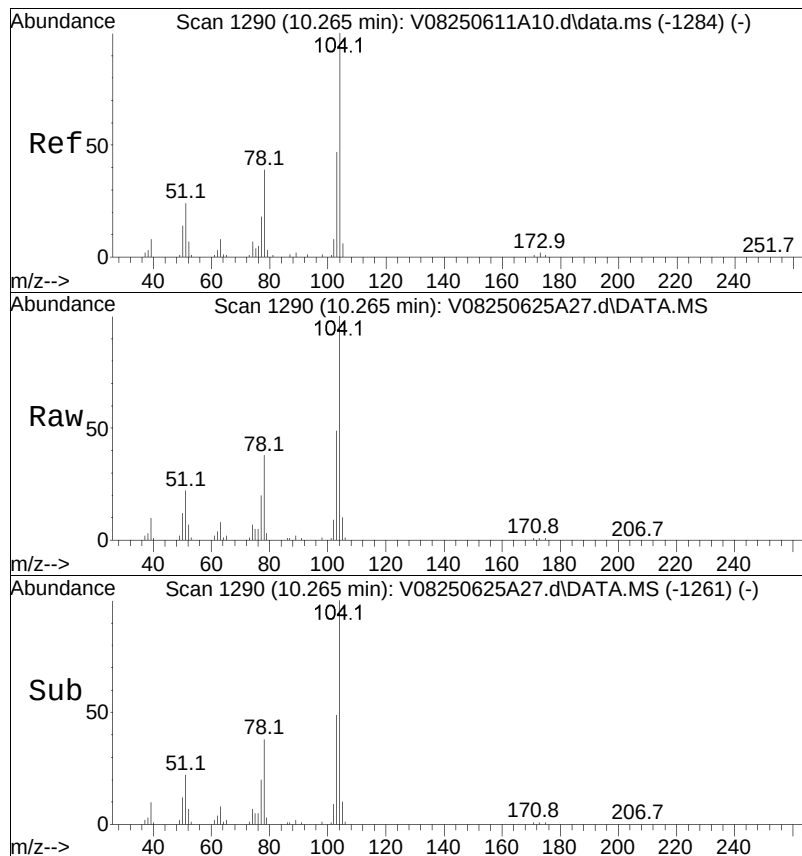




#77
 o Xylene
 Concen: 16.82 ug/L
 RT: 10.203 min Scan# 1281
 Delta R.T. 0.007 min
 Lab File: V08250625A27.d
 Acq: 25 Jun 2025 5:06 pm

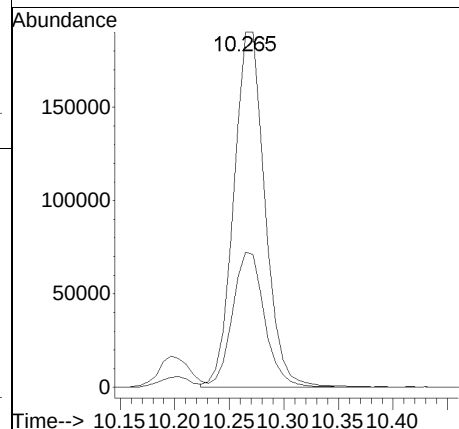
Tgt Ion	106	91	Ratio	Lower	Upper
Resp	232776				
Ratio	100	206.4		167.4	251.0

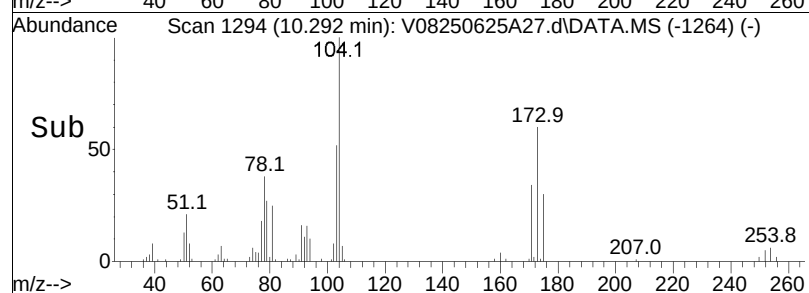
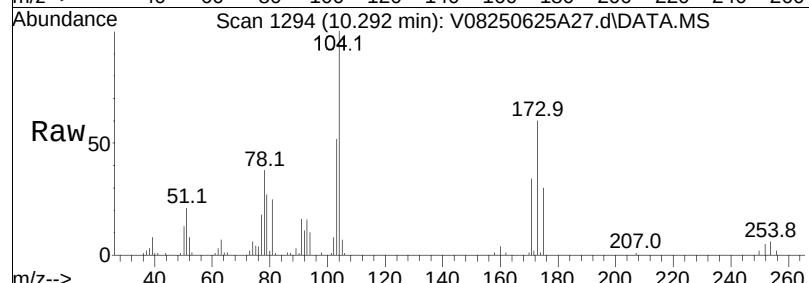
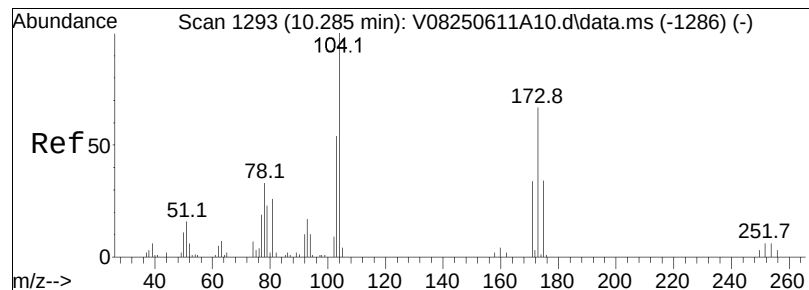




#78
 Styrene
 Concen: 15.34 ug/L
 RT: 10.265 min Scan# 1290
 Delta R.T. -0.000 min
 Lab File: V08250625A27.d
 Acq: 25 Jun 2025 5:06 pm

Tgt Ion	Ratio	Lower	Upper
104	100		
78	39.2	31.9	47.9





#80

Bromoform

Concen: 9.51 ug/L

RT: 10.292 min Scan# 1294

Delta R.T. 0.007 min

Lab File: V08250625A27.d

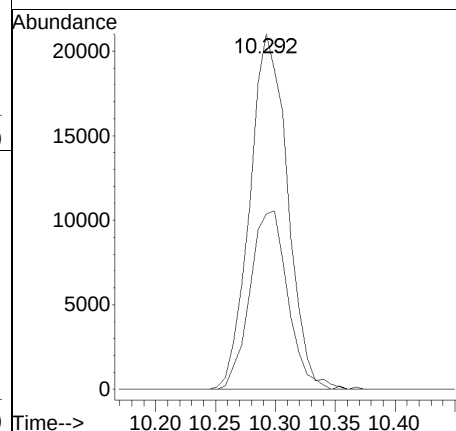
Acq: 25 Jun 2025 5:06 pm

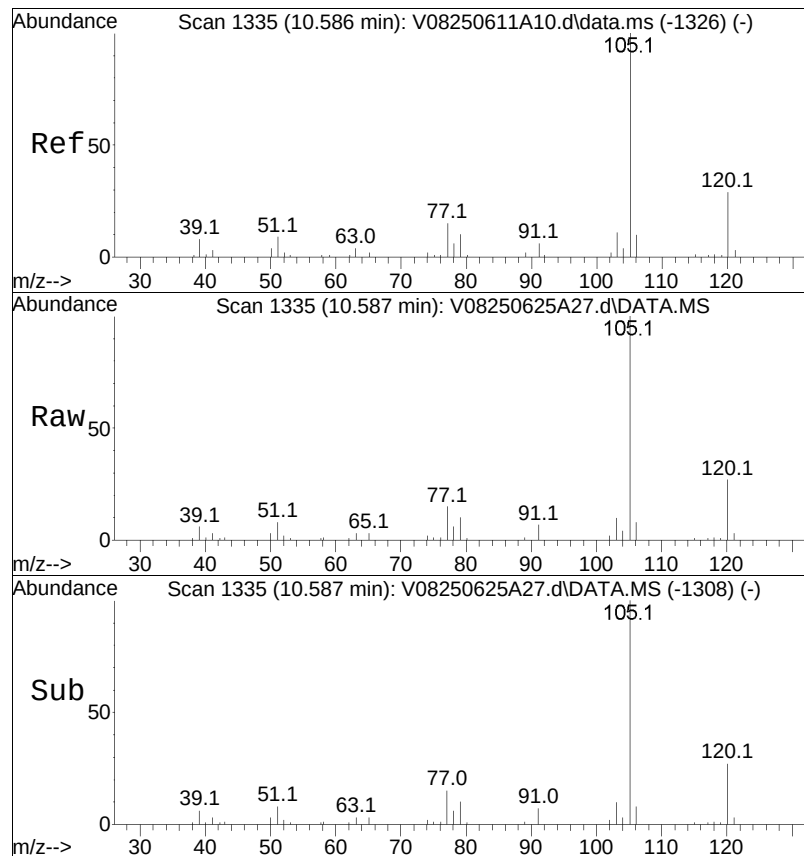
Tgt Ion:173 Resp: 46199

Ion Ratio Lower Upper

173 100

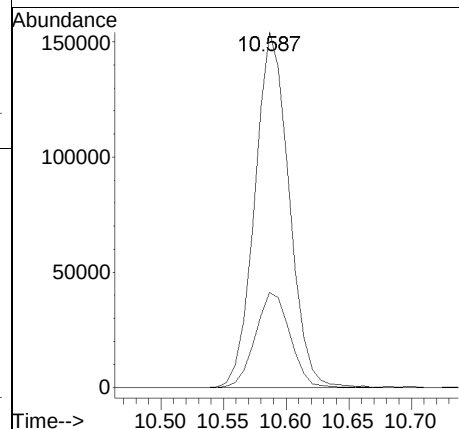
175 50.2 27.4 67.4

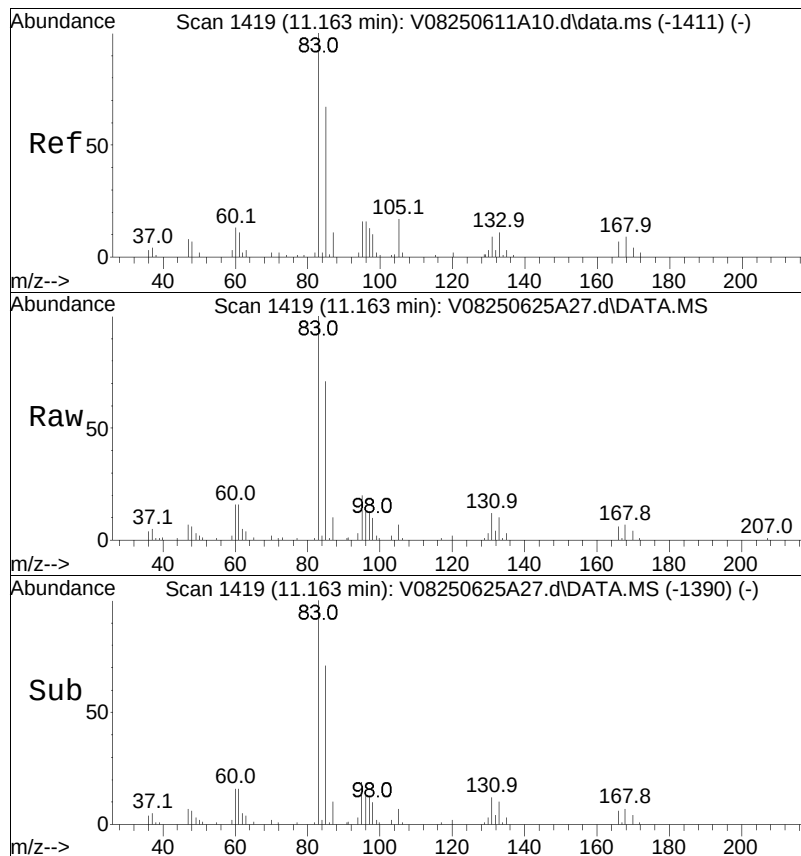




#82
 Isopropylbenzene
 Concen: 8.65 ug/L
 RT: 10.587 min Scan# 1335
 Delta R.T. 0.001 min
 Lab File: V08250625A27.d
 Acq: 25 Jun 2025 5:06 pm

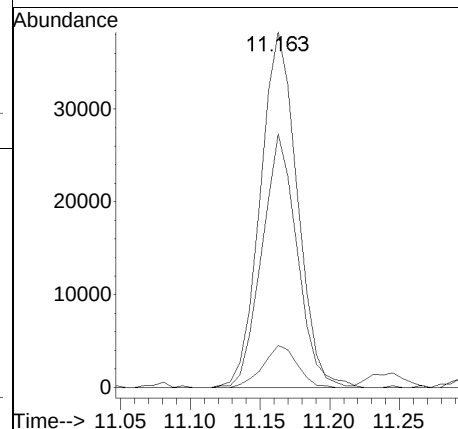
Tgt	Ion	Ratio	Lower	Upper
105	100			
120	27.0	7.3	47.3	

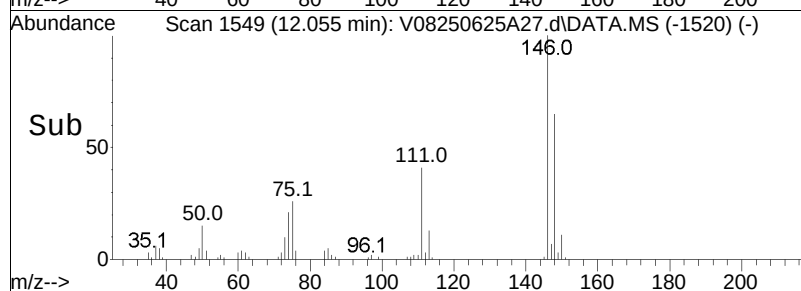
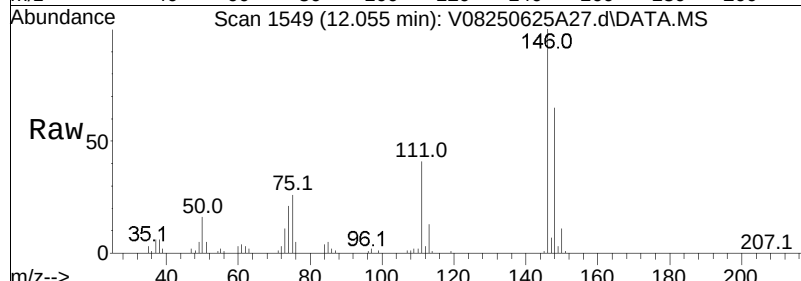
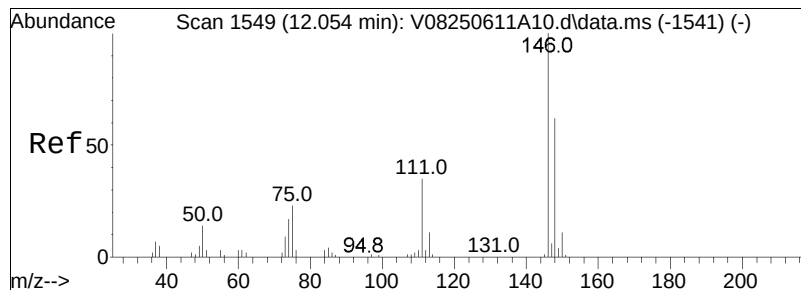




#87
 1,1,2,2-Tetrachloroethane
 Concen: 11.02 ug/L
 RT: 11.163 min Scan# 1419
 Delta R.T. -0.000 min
 Lab File: V08250625A27.d
 Acq: 25 Jun 2025 5:06 pm

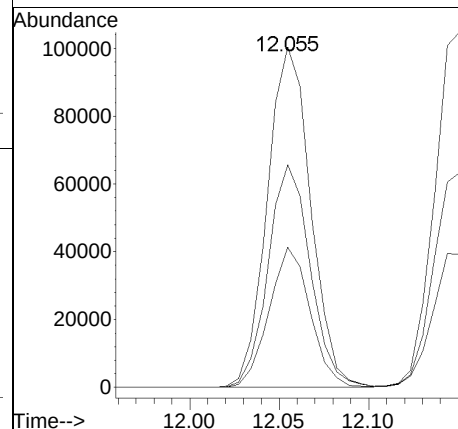
Tgt Ion:	83	Resp:	70374
Ion Ratio	Lower	Upper	
83	100		
131	11.0	0.0	29.6
85	68.8	49.7	89.7

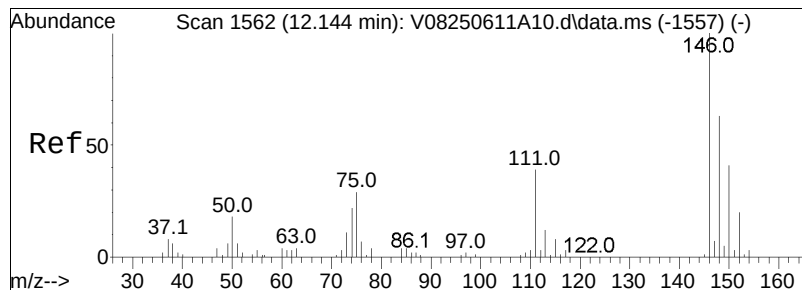




#100
 1,3-Dichlorobenzene
 Concen: 8.98 ug/L
 RT: 12.055 min Scan# 1549
 Delta R.T. 0.001 min
 Lab File: V08250625A27.d
 Acq: 25 Jun 2025 5:06 pm

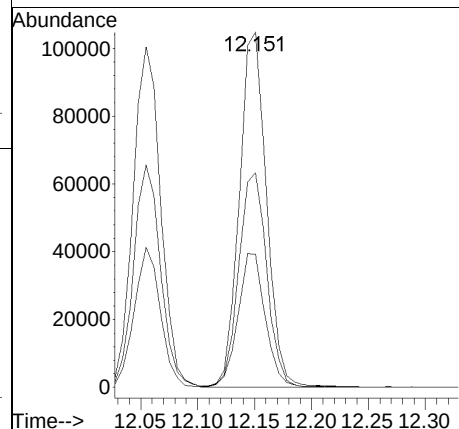
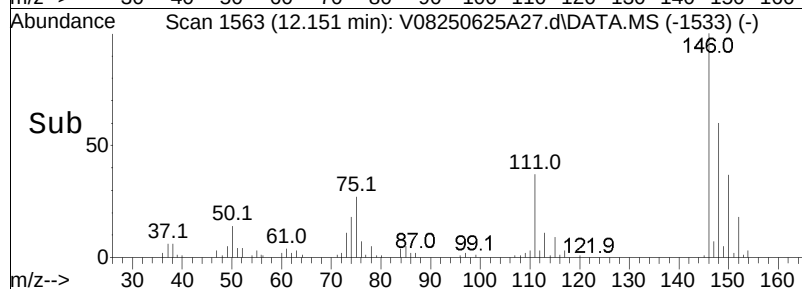
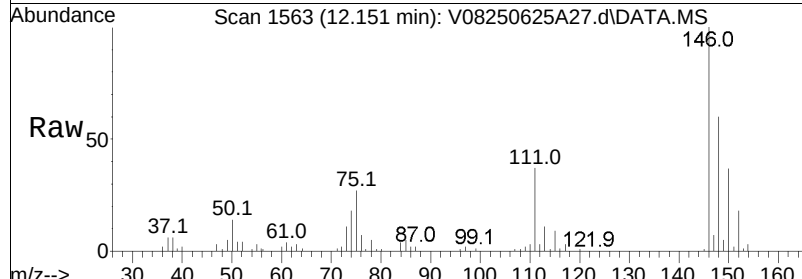
Tgt Ion:	146	Resp:	169275
Ion Ratio	Lower	Upper	
146	100		
111	39.1	24.4	50.6
148	63.7	41.0	85.2

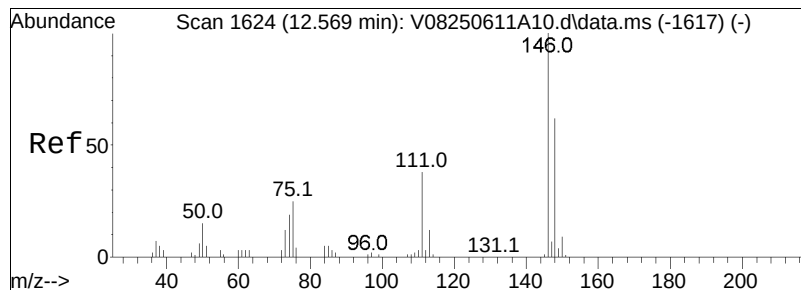




#101
 1,4-Dichlorobenzene
 Concen: 9.07 ug/L
 RT: 12.151 min Scan# 1563
 Delta R.T. 0.007 min
 Lab File: V08250625A27.d
 Acq: 25 Jun 2025 5:06 pm

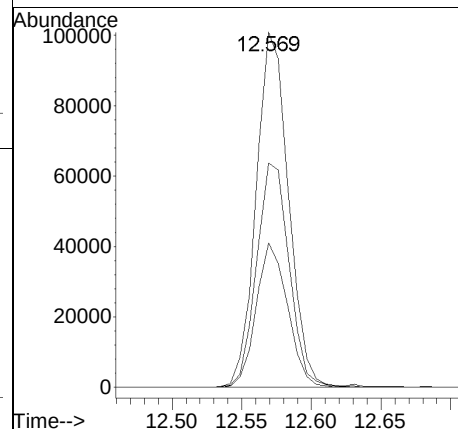
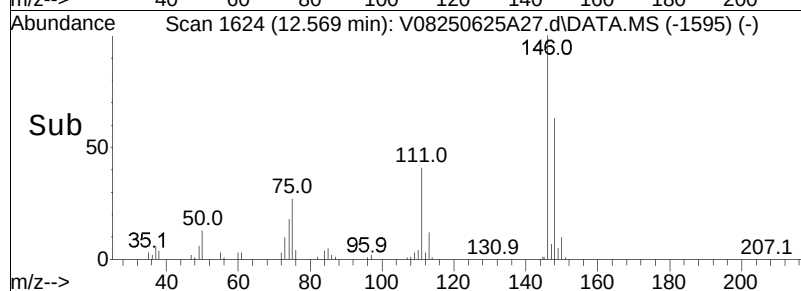
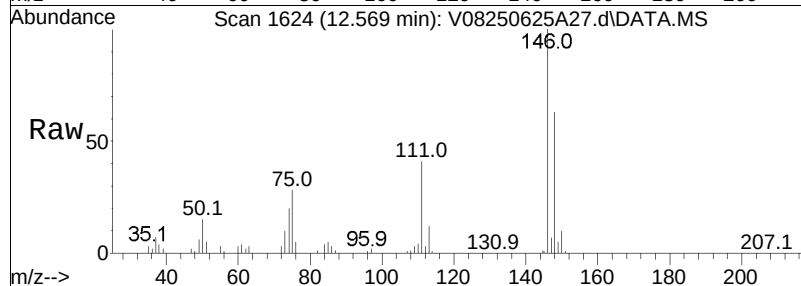
Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.2	29.8	44.6
148	61.4	50.9	76.3

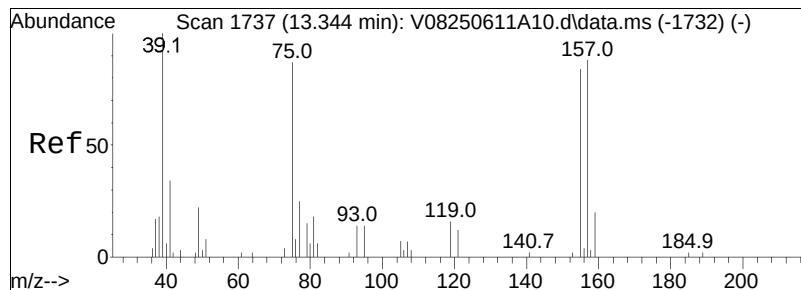




#104
 1,2-Dichlorobenzene
 Concen: 9.45 ug/L
 RT: 12.569 min Scan# 1624
 Delta R.T. 0.000 min
 Lab File: V08250625A27.d
 Acq: 25 Jun 2025 5:06 pm

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.4	25.0	51.8
148	63.4	40.0	83.2





#106

1,2-Dibromo-3-chloropropane

Concen: 12.17 ug/L

RT: 13.351 min Scan# 1738

Delta R.T. 0.007 min

Lab File: V08250625A27.d

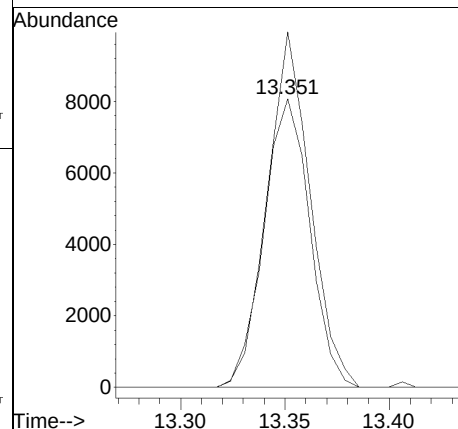
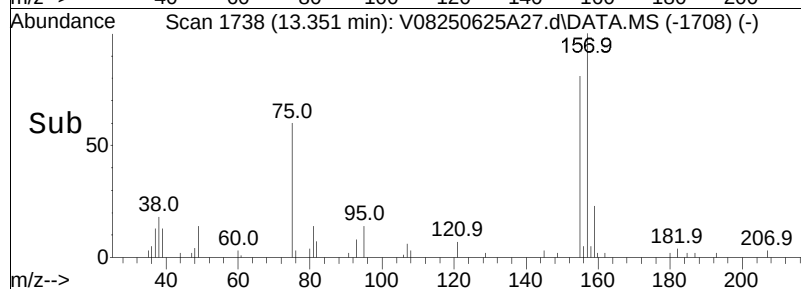
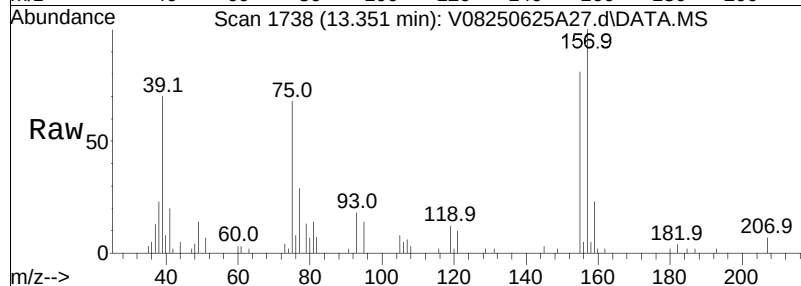
Acq: 25 Jun 2025 5:06 pm

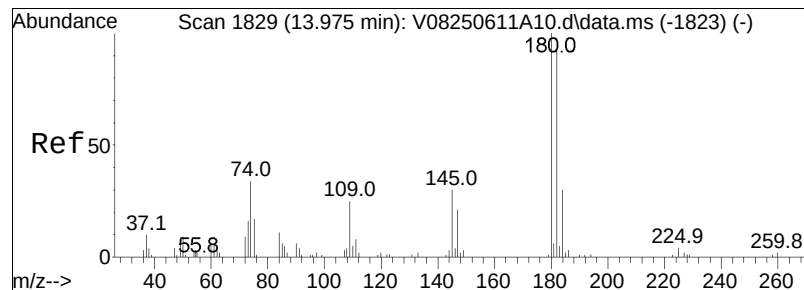
Tgt Ion:155 Resp: 12347

Ion Ratio Lower Upper

155 100

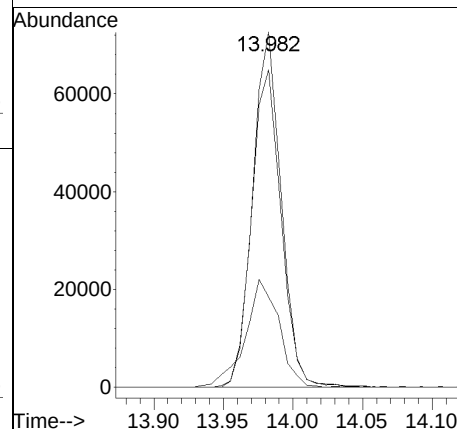
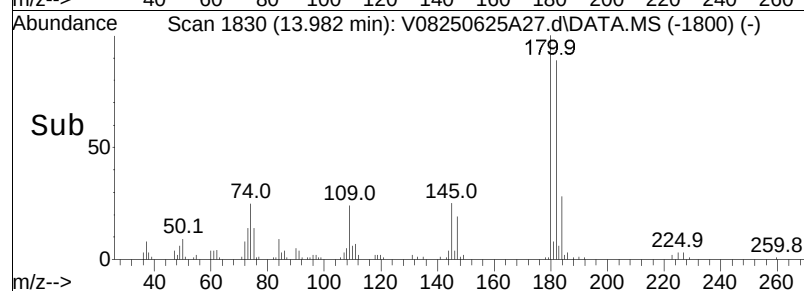
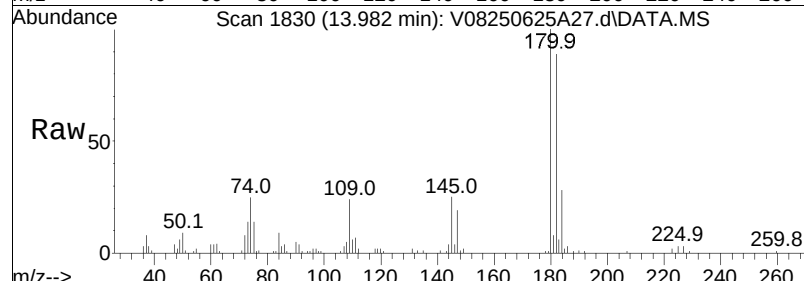
157 115.5 97.9 146.9

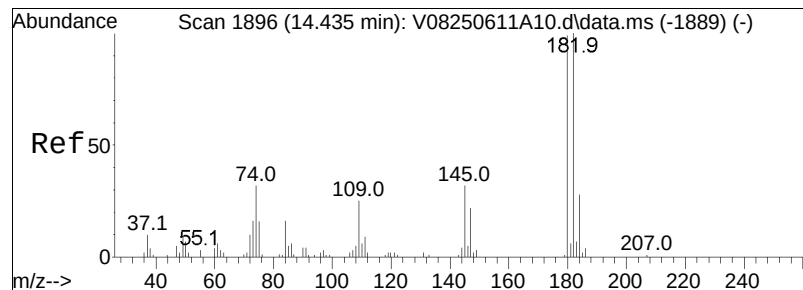




#109
 1,2,4-Trichlorobenzene
 Concen: 9.16 ug/L
 RT: 13.982 min Scan# 1830
 Delta R.T. 0.007 min
 Lab File: V08250625A27.d
 Acq: 25 Jun 2025 5:06 pm

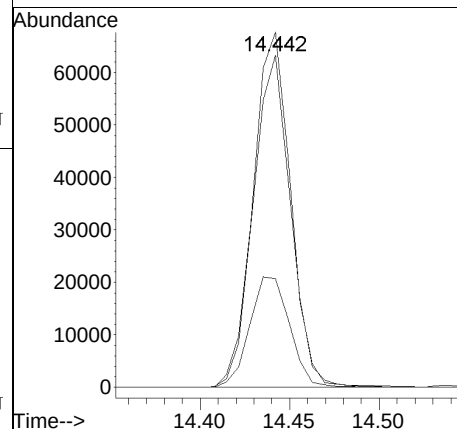
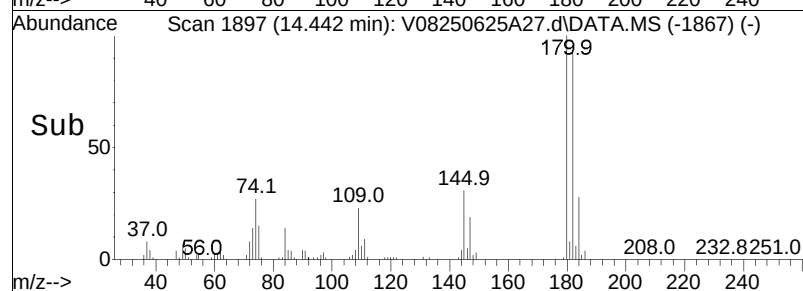
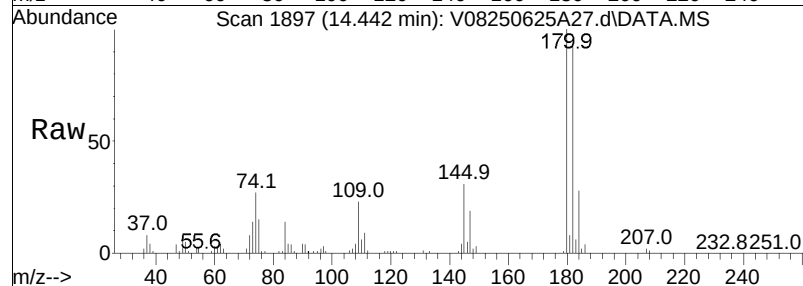
Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.3	74.1	111.1
145	35.8	27.8	41.8





#111
 1,2,3-Trichlorobenzene
 Concen: 9.68 ug/L
 RT: 14.442 min Scan# 1897
 Delta R.T. 0.007 min
 Lab File: V08250625A27.d
 Acq: 25 Jun 2025 5:06 pm

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.5	76.1	114.1
145	33.2	25.9	38.9



Calculation of Volatile Organic Compounds

Aqueous Concentration Formula: $\text{Amt} * \text{DF} * \text{Uf} * (1/\text{Vo})$

Where:

DF = Dilution Factor

Vo = Sample Volume Purged (mL)

Uf = ng Unit Correction Factor (mL)

Soil Concentration Formula: $\text{Amt} * \text{DF} * (1/\text{Wt})$

Where:

DF = Dilution Factor

Wt = Weight of Sample (g)

PACE ANALYTICAL SERVICES

PACE WORK GROUP REPORT (wk02)

Jun 29 2025, 06:30 pm

Work Group: WG2084241 for Department: 31 GC/MS - Volatiles

Created: 27-JUN-25 Due: Operator: mjb

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2538382-01	MW-8S	S NYTCL-8260	WATER	DONE	U	0702	0627	S0	Vial-B
L2538382-02	MW-8D	S NYTCL-8260	WATER	DONE	U	0702	0627	S0	Vial-B
L2538382-03	MW-5D	S NYTCL-8260	WATER	DONE	U	0702	0627	S0	Vial-B
L2538382-04	PZ-5	S NYTCL-8260	WATER	DONE	U	0702	0627	S0	Vial-B
L2538382-05	MW-12S	S NYTCL-8260	WATER	DONE	U	0702	0627	S0	Vial-B
L2538382-06	MW-12D	S NYTCL-8260	WATER	DONE	U	0702	0627	S0	Vial-B
L2538382-07	DUP_06182025	S NYTCL-8260	WATER	DONE	U	0702	0627	S0	Vial-B
L2538382-08	TRIP BLANK	S NYTCL-8260	WATER	DONE	U	0702	0627	S0	Vial-B
L2538474-01	RIMW07_061825	S NYTCL-8260	WATER	DONE	U	0702	0627	S0	Vial-B
L2538474-02	RIMW09_061825	S NYTCL-8260	WATER	DONE	U	0702	0627	S0	Vial-B
L2538474-04	GWDUP01_061825	S NYTCL-8260	WATER	DONE	U	0702	0627	S0	Vial-B
L2538474-06	GWTB02_061825	S NYTCL-8260	WATER	DONE	U	0702	0627	S0	Vial-B
L2538474-07	GWFB02_061825	S NYTCL-8260	WATER	DONE	U	0702	0627	S0	Vial-B
L2538474-08	WC-DRUM01_061825	S NYTCL-8260	WATER	DONE	U	0702	0627	S0	Vial-B
WG2084241-1	MS BFB Tune Standard	S NYTCL-8260	WATER	DONE	U				
WG2084241-2	Continuing Calibrati	S NYTCL-8260	WATER	DONE	U				
WG2084241-3	Laboratory Control S	S NYTCL-8260	WATER	DONE	U				
WG2084241-4	LCS Duplicate	S NYTCL-8260	WATER	DONE	U				
WG2084241-5	Laboratory Method Bl	S NYTCL-8260	WATER	DONE	U				
WG2084241-6	Matrix Spike	S NYTCL-8260	WATER	DONE	U				
WG2084241-7	Matrix Spike Duplica	S NYTCL-8260	WATER	DONE	U				
Comments:									
WG2084241-4	WG2084241-3								
WG2084241-6	L2538382-06								
WG2084241-7	L2538382-06								

Inst: VOA108
Initials: TMS
Date **06/11/25**
Run **A**

BFB: V11220
IS/SS: V11228
ICAL: V11214D,V11236
ICV: V11237,V11196,V11199,V11217,V11216,V11197

Method
GC: 8260-ATOMX
Autosampler: 8260
Concentrator: 8260



QC: _____ Seq: _____

Vial	DATA FILE	SAMPLE	pH<2
1	V08250611ABF1	BFB TUNE	
1	V08250611A01	BLK	
2	V08250611A02	BLK	
3	V08250611A03	BLK	
4	V08250611A04	I8260STD0.19PPB	
5	V08250611A05	I8260STD0.19PPB	
6	V08250611A06	I8260STD0.5PPB	
7	V08250611A07	I8260STD0.5PPB	
8	V08250611A08	I8260STD2PPB	
9	V08250611A09	I8260STD2PPB	
10	V08250611A10	I8260STD10PPB	
11	V08250611A11	I8260STD30PPB	
12	V08250611A12	I8260STD80PPB	
13	V08250611A13	I8260STD120PPB	
14	V08250611A14	I8260STD200PPB	
15	V08250611A15	BLK	
16	V08250611A16	BLK	
17	V08250611A17	BLK	
18	V08250611A18	BLK	
19	V08250611A19	C8260STD10PPB	
20	V08250611A20	C8260STD10PPB	
21	V08250611A21	BLK	

Inst: VOA108 BFB: V11220
 Initials: PID IS/SS: V11263
 Date **06/25/25** ICAL: V11254A,V11257
 Run **A**

Method
 GC: 8260-ATOMX
 Autosampler: 8260
 Concentrator: 8260



QC: _____ Seq: _____

Vial	DATA FILE	SAMPLE	pH<2
1	V08250625ABF1	BFB TUNE 06:51	
1	V08250625A01	8260 CCAL LCS	
2	V08250625A02	8260 CCAL LCSD	
3	V08250625A03	8260 CCAL	
4	V08250625A04	BLK	
5	V08250625A05	METHOD BLK	
6	V08250625A06	L2536724-03,31,10,10,,A NJ/15/TBA	pH<2
7	V08250625A07	L2536724-04,31,10,10,,A NJ/BTEX,MTBE,TBA	pH>2
8	V08250625A08	L2536724-05,31,10,10,,A NJ/BTEX,MTBE,TBA	pH<2
9	V08250625A09	L2538760-01,31,10,10,,A,R1B PA8260CURVE	pH<2
10	V08250625A10	L2538762-01,31,10,10,,A,R1B PA/NAPH	pH<2
11	V08250625A11	L2538762-02,31,10,10,,A,R1B PA8260CURVE	pH<2
12	V08250625A12	L2538474-01,31,10,10,,A NYCURVE	pH<2
13	V08250625A13	L2538474-02,31,10,10,,A NYCURVE	pH<2
14	V08250625A14	L2538474-04,31,10,10,,A NYCURVE	pH<2
15	V08250625A15	L2538474-06,31,10,10,,A NYCURVE	pH<2
16	V08250625A16	L2538474-07,31,10,10,,A NYCURVE	pH<2
17	V08250625A17	L2538474-08,31,10,10,,A NYCURVE	pH<2
18	V08250625A18	L2538382-01,31,10,10,,A NYCURVE	pH<2
19	V08250625A19	L2538382-02,31,10,10,,A NYCURVE	pH<2
20	V08250625A20	L2538382-03,31,10,10,,A NYCURVE	pH<2
21	V08250625A21	L2538382-04,31,10,10,,A NYCURVE	pH<2
22	V08250625A22	L2538382-08,31,10,10,,A NYCURVE TB	pH<2
23	V08250625A23	L2538382-06,31,10,10,,A NYCURVE	pH<2
24	V08250625A24	L2538382-07,31,10,10,,A NYCURVE	pH<2
25	V08250625A25	L2538382-05,31,10,10,,A NYCURVE	pH<2
26	V08250625A26	L2538382-06MS,31,10,10,,A1 NYCURVE	pH<2
27	V08250625A27	L2538382-06MSD,31,10,10,,A2 NYCURVE	pH<2
28	V08250625A28	HBM	
29	V08250625A29	BLK	
30	V08250625A30	BLK	

Semivolatiles Data- Method 8270

Semivolatiles QC Summary

Laboratory Control Sample Summary

Form 3

Semivolatiles

Client : Roux Env. Eng. & Geology, DPC Lab Number : L2538382
 Project Name : CORAM MATERIALS Project Number : 2232.0006Y005
 Matrix (Level) : WATER (LOW)
 LCS Sample ID : WG2081606-2 Analysis Date : 06/21/25 09:13 File ID : 081606-2
 LCSD Sample ID : WG2081606-3 Analysis Date : 06/21/25 09:35 File ID : 081606-3

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R			
3,3'-Dichlorobenzidine	20	14.	73	20	13.	67	9	40-140	30
2,4-Dinitrotoluene	20	18.	91	20	15.	77	17	48-143	30
2,6-Dinitrotoluene	20	18.	91	20	16.	80	13	40-140	30
4-Chlorophenyl phenyl ether	20	15.	75	20	13.	66	13	40-140	30
4-Bromophenyl phenyl ether	20	16.	82	20	15.	74	10	40-140	30
Bis(2-chloroisopropyl)ether	20	14.	72	20	12.	58	22	40-140	30
Bis(2-chloroethoxy)methane	20	15.	77	20	13.	65	17	40-140	30
Hexachlorocyclopentadiene	20	5.8	29 Q	20	5.3	27 Q	7	40-140	30
Isophorone	20	15.	76	20	14.	71	7	40-140	30
Nitrobenzene	20	16.	81	20	13.	66	20	40-140	30
NDPA/DPA	20	16.	81	20	15.	75	8	40-140	30
n-Nitrosodi-n-propylamine	20	16.	82	20	15.	73	12	29-132	30
Bis(2-ethylhexyl)phthalate	20	16.	79	20	14.	70	12	40-140	30
Butyl benzyl phthalate	20	19.	95	20	16.	78	20	40-140	30
Di-n-butylphthalate	20	16.	80	20	14.	71	12	40-140	30
Di-n-octylphthalate	20	16.	82	20	14.	71	14	40-140	30
Diethyl phthalate	20	17.	84	20	15.	73	14	40-140	30
Dimethyl phthalate	20	18.	91	20	16.	82	10	40-140	30
Biphenyl	20	15.	76	20	14.	68	11	40-140	30
4-Chloroaniline	20	15.	75	20	11.	54	33 Q	40-140	30
2-Nitroaniline	20	19.	94	20	16.	82	14	52-143	30
3-Nitroaniline	20	17.	85	20	15.	76	11	25-145	30
4-Nitroaniline	20	19.	96	20	17.	83	15	51-143	30
Dibenzofuran	20	15.	76	20	13.	64	17	40-140	30
1,2,4,5-Tetrachlorobenzene	20	15.	76	20	13.	65	16	2-134	30
Acetophenone	20	18.	92	20	16.	78	16	39-129	30



Laboratory Control Sample Summary

Form 3

Semivolatiles

Client : Roux Env. Eng. & Geology, DPC Lab Number : L2538382
 Project Name : CORAM MATERIALS Project Number : 2232.0006Y005
 Matrix (Level) : WATER (LOW)
 LCS Sample ID : WG2081606-2 Analysis Date : 06/21/25 09:13 File ID : 081606-2
 LCSD Sample ID : WG2081606-3 Analysis Date : 06/21/25 09:35 File ID : 081606-3

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R			
2,4,6-Trichlorophenol	20	19.	97	20	18.	90	7	30-130	30
p-Chloro-m-cresol	20	18.	92	20	17.	86	7	23-97	30
2-Chlorophenol	20	16.	82	20	13.	67	20	27-123	30
2,4-Dichlorophenol	20	18.	91	20	17.	84	8	30-130	30
2,4-Dimethylphenol	20	16.	79	20	14.	68	15	30-130	30
2-Nitrophenol	20	18.	88	20	16.	79	11	30-130	30
4-Nitrophenol	20	13.	65	20	11.	56	15	10-80	30
2,4-Dinitrophenol	20	14.	70	20	12.	62	12	20-130	30
4,6-Dinitro-o-cresol	20	16.	81	20	13.	64	23	20-164	30
Phenol	20	8.9	44	20	8.0	40	10	12-110	30
2-Methylphenol	20	16.	80	20	13.	67	18	30-130	30
3-Methylphenol/4-Methylphenol	20	15.	75	20	14.	68	10	30-130	30
2,4,5-Trichlorophenol	20	20.	102	20	19.	97	5	30-130	30
Carbazole	20	17.	87	20	15.	77	12	55-144	30
Atrazine	20	18.	92	20	17.	86	7	40-140	30
Benzaldehyde	20	17.	84	20	14.	73	14	40-140	30
Caprolactam	20	7.4	37	20	7.1	36	3	10-130	30



Matrix Spike Sample Summary

Form 3

Semivolatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : MW-12D
 Lab Sample ID : L2538382-06
 Matrix Spike : WG2081606-4
 Matrix Spike Dup : WG2081606-5

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Matrix (Level) : WATER (LOW)
 Analysis Date : 06/21/25 13:18
 MS Analysis Date : 06/21/25 13:41
 MSD Analysis Date : 06/21/25 14:03

Parameter	Sample Conc. (ug/l)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R			
3,3'-Dichlorobenzidine	ND	20	13.	65	20	13.	65	0	40-140	30
2,4-Dinitrotoluene	ND	20	17.	85	20	16.	80	6	48-143	30
2,6-Dinitrotoluene	ND	20	16.	80	20	17.	85	6	40-140	30
4-Chlorophenyl phenyl ether	ND	20	14.	70	20	14.	70	0	40-140	30
4-Bromophenyl phenyl ether	ND	20	15.	75	20	14.	70	7	40-140	30
Bis(2-chloroisopropyl)ether	ND	20	13.	65	20	12.	60	8	40-140	30
Bis(2-chloroethoxy)methane	ND	20	15.	75	20	13.	65	14	40-140	30
Hexachlorocyclopentadiene	ND	20	5.3J	27 Q	20	5.0J	25 Q	6	40-140	30
Isophorone	ND	20	14.	70	20	13.	65	7	40-140	30
Nitrobenzene	ND	20	14.	70	20	13.	65	7	40-140	30
NDPA/DPA	ND	20	14.	70	20	14.	70	0	40-140	30
n-Nitrosodi-n-propylamine	ND	20	16.	80	20	14.	70	13	29-132	30
Bis(2-ethylhexyl)phthalate	ND	20	16.	80	20	15.	75	6	40-140	30
Butyl benzyl phthalate	ND	20	17.	85	20	16.	80	6	40-140	30
Di-n-butylphthalate	ND	20	15.	75	20	14.	70	7	40-140	30
Di-n-octylphthalate	ND	20	16.	80	20	15.	75	6	40-140	30
Diethyl phthalate	ND	20	15.	75	20	15.	75	0	40-140	30
Dimethyl phthalate	ND	20	17.	85	20	16.	80	6	40-140	30
Biphenyl	ND	20	14.	70	20	13.	65	7	40-140	30
4-Chloroaniline	ND	20	13.	65	20	12.	60	8	40-140	30
2-Nitroaniline	ND	20	18.	90	20	17.	85	6	52-143	30
3-Nitroaniline	ND	20	16.	80	20	14.	70	13	25-145	30



Matrix Spike Sample Summary

Form 3

Semivolatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : MW-12D
 Lab Sample ID : L2538382-06
 Matrix Spike : WG2081606-4
 Matrix Spike Dup : WG2081606-5

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Matrix (Level) : WATER (LOW)
 Analysis Date : 06/21/25 13:18
 MS Analysis Date : 06/21/25 13:41
 MSD Analysis Date : 06/21/25 14:03

Parameter	Sample Conc. (ug/l)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R			
4-Nitroaniline	ND	20	18.	90	20	18.	90	0	51-143	30
Dibenzofuran	ND	20	14.	70	20	13.	65	7	40-140	30
1,2,4,5-Tetrachlorobenzene	ND	20	14.	70	20	12.	60	15	2-134	30
Acetophenone	ND	20	17.	85	20	16.	80	6	39-129	30
2,4,6-Trichlorophenol	ND	20	18.	90	20	16.	80	12	30-130	30
p-Chloro-m-cresol	ND	20	17.	85	20	16.	80	6	23-97	30
2-Chlorophenol	ND	20	15.	75	20	14.	70	7	27-123	30
2,4-Dichlorophenol	ND	20	17.	85	20	15.	75	13	30-130	30
2,4-Dimethylphenol	ND	20	12.	60	20	10.	50	18	30-130	30
2-Nitrophenol	ND	20	16.	80	20	15.	75	6	30-130	30
4-Nitrophenol	ND	20	12.	60	20	12.	60	0	10-80	30
2,4-Dinitrophenol	ND	20	13.J	65	20	14.J	70	7	20-130	30
4,6-Dinitro-o-cresol	ND	20	15.	75	20	15.	75	0	20-164	30
Phenol	ND	20	8.0	40	20	7.8	39	3	12-110	30
2-Methylphenol	ND	20	14.	70	20	12.	60	15	30-130	30
3-Methylphenol/4-Methylphenol	ND	20	15.	75	20	12.	60	22	30-130	30
2,4,5-Trichlorophenol	ND	20	21.	110	20	18.	90	15	30-130	30
Carbazole	ND	20	16.	80	20	15.	75	6	55-144	30
Atrazine	ND	20	17.	85	20	17.	85	0	40-140	30
Benzaldehyde	ND	20	17.	85	20	14.	70	19	40-140	30
Caprolactam	ND	20	6.1J	31	20	5.6J	28	9	10-130	30



Surrogate Recovery Summary

Form 2

Semivolatiles

Client: Roux Env. Eng. & Geology, DPC
Project Name: CORAM MATERIALS

Lab Number: L2538382
Project Number: 2232.0006Y005
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	S1 (2FP)	S2 (PHL)	S3 (NBZ)	S4 (FBP)	S5 (TBP)	S6 (TPH)	TOT OUT
MW-8S (L2538382-01)	45	34	72	70	103	85	0
MW-8D (L2538382-02)	53	36	70	65	94	80	0
MW-5D (L2538382-03)	47	34	70	69	90	87	0
PZ-5 (L2538382-04)	47	32	59	68	94	76	0
MW-12S (L2538382-05)	46	37	71	75	99	87	0
MW-12D (L2538382-06)	47	39	71	72	98	85	0
DUP_06182025 (L2538382-07)	49	36	70	66	90	82	0
WG2081606-1BLANK	50	37	72	72	101	82	0
WG2081606-2LCS	55	45	85	82	114	88	0
WG2081606-3LCSD	46	38	71	70	88	76	0
MW-12DMS	53	44	70	74	98	82	0
MW-12DMSD	48	37	65	69	97	81	0

QC LIMITS

(21-120) 2FP = 2-FLUOROPHENOL
(10-120) PHL = PHENOL-D6
(23-120) NBZ = NITROBENZENE-D5
(15-120) FBP = 2-FLUOROBIPHENYL
(10-120) TBP = 2,4,6-TRIBROMOPHENOL
(41-149) TPH = 4-TERPHENYL-D14

* Values outside of QC limits

FORM II NYTCL-8270-RVT



**Method Blank Summary
Form 4
Semivolatiles**

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab Sample ID	: WG2081606-1	Lab File ID	: 081606-1
Instrument ID	: DAKOTA	Extraction Date	: 06/20/25
Matrix	: WATER	Analysis Date	: 06/21/25 09:58
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG2081606-2LCS	WG2081606-2	06/21/25 09:13
WG2081606-3LCSD	WG2081606-3	06/21/25 09:35
MW-8S	L2538382-01	06/21/25 11:27
MW-8D	L2538382-02	06/21/25 11:49
MW-5D	L2538382-03	06/21/25 12:11
PZ-5	L2538382-04	06/21/25 12:34
MW-12S	L2538382-05	06/21/25 12:56
MW-12D	L2538382-06	06/21/25 13:18
MW-12DMS	WG2081606-4	06/21/25 13:41
MW-12DMSD	WG2081606-5	06/21/25 14:03
DUP_06182025	L2538382-07	06/21/25 14:26

Instrument Performance Check (Tune) Summary

Form 5

Semivolatiles

Decafluorotriphenylphosphine (DFTPP)

Client : Roux Env. Eng. & Geology, DPC	Lab Number : L2538382
Project Name : CORAM MATERIALS	Project Number : 2232.0006Y005
Instrument ID : DAKOTA	Analysis Date : 04/16/25 17:04
Tune Standard : R1954658-31	Tune File ID : Tune1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	40.1
68	Less than 2.0% of mass 69	0.5 (1.3)1
69		100
70	Less than 2.0% of mass 69	0.3 (.7)1
127	10.0 - 80.0% of Base Peak	40.8
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.7
275	10.0 - 60.0% of Base Peak	24.7
365	Greater than 1.0% of mass 198	2.9
441	Present, but less than 24% of mass 442	18.3
442	Base Peak, or >50% of mass 198	68.4
443	15.0 - 24.0% of mass 442	12.9 (18.8)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
ABNL9	R1954658-9	ABNL9	04/16/25 17:27
ABNL8	R1954658-8	ABNL8	04/16/25 17:49
ABNL7	R1954658-7	ABNL7	04/16/25 18:12
ABNL6	R1954658-6	ABNL6	04/16/25 18:35
ABNL5	R1954658-5	ABNL5	04/16/25 18:57
ABNL4	R1954658-4	ABNL4	04/16/25 19:19
ABNL3	R1954658-3	ABNL3	04/16/25 19:42
ABNL2	R1954658-2	ABNL2	04/16/25 20:04
ABNL1	R1954658-1	ABNL1	04/16/25 20:27
AP9L9	R1954658-27	AP9L9	04/16/25 20:49
AP9L8	R1954658-26	AP9L8	04/16/25 21:12
AP9L7	R1954658-25	AP9L7	04/16/25 21:35
AP9L6	R1954658-22	AP9L6	04/16/25 21:57
AP9L5	R1954658-23	AP9L5	04/16/25 22:20
AP9L4	R1954658-24	AP9L4	04/16/25 22:42
AP9L3	R1954658-20	AP9L3	04/16/25 23:05
AP9L2	R1954658-21	AP9L2	04/16/25 23:28
AP9L1	R1954658-19	AP9L1	04/16/25 23:50
ABN ICV Quant Report	R1954658-28	ABNICV	04/17/25 00:13
AP9 ICV Quant Report	R1954658-30	AP9ICV	04/17/25 00:36



Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client : Roux Env. Eng. & Geology, DPC	Lab Number : L2538382
Project Name : CORAM MATERIALS	Project Number : 2232.0006Y005
Instrument ID : DAKOTA	Analysis Date : 04/17/25 00:58
Tune Standard : R1954658-32	Tune File ID : Tune2_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	39.6
68	Less than 2.0% of mass 69	0.5 (1.2)1
69		100
70	Less than 2.0% of mass 69	0.2 (.4)1
127	10.0 - 80.0% of Base Peak	41.4
197	Less than 2.0% of mass 198	0.4
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.5
275	10.0 - 60.0% of Base Peak	25.9
365	Greater than 1.0% of mass 198	3
441	Present, but less than 24% of mass 442	17.2
442	Base Peak, or >50% of mass 198	70.6
443	15.0 - 24.0% of mass 442	13.5 (19.2)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
ADPL9	R1954658-18	ADPL9	04/17/25 01:20
ADPL8	R1954658-17	ADPL8	04/17/25 01:43
ADPL7	R1954658-16	ADPL7	04/17/25 02:05
ADPL6	R1954658-15	ADPL6	04/17/25 02:28
ADPL5	R1954658-14	ADPL5	04/17/25 02:50
ADPL4	R1954658-13	ADPL4	04/17/25 03:13
ADPL3	R1954658-12	ADPL3	04/17/25 03:35
ADPL2	R1954658-11	ADPL2	04/17/25 03:58
ADPL1	R1954658-10	ADPL1	04/17/25 04:21
ADP ICV Quant Report	R1954658-29	ADPICV	04/17/25 04:43



Instrument Performance Check (Tune) Summary

Form 5

Semivolatiles

Decafluorotriphenylphosphine (DFTPP)

Client : Roux Env. Eng. & Geology, DPC	Lab Number : L2538382
Project Name : CORAM MATERIALS	Project Number : 2232.0006Y005
Instrument ID : DAKOTA	Analysis Date : 06/21/25 06:05
Tune Standard : WG2081719-1	Tune File ID : DEG0621_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	39.1
68	Less than 2.0% of mass 69	0.6 (1.4)1
69		100
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	39.6
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.7
275	10.0 - 60.0% of Base Peak	25.2
365	Greater than 1.0% of mass 198	3.2
441	Present, but less than 24% of mass 442	17.3
442	Base Peak, or >50% of mass 198	73.1
443	15.0 - 24.0% of mass 442	14.2 (19.4)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG2081719-6TFACTOR-B	WG2081719-6	DEG0621	06/21/25 06:05
WG2081719-7TFACTOR-P	WG2081719-7	DEG0621	06/21/25 06:05
WG2081719-3CCAL	WG2081719-3	ABN0621	06/21/25 06:27
WG2081719-4CCAL	WG2081719-4	AP90621	06/21/25 06:49
WG2081719-5CCAL	WG2081719-5	ADP0621	06/21/25 07:11
WG2081606-2LCS	WG2081606-2	081606-2	06/21/25 09:13
WG2081606-3LCSD	WG2081606-3	081606-3	06/21/25 09:35
WG2081606-1BLANK	WG2081606-1	081606-1	06/21/25 09:58
MW-8S	L2538382-01	38382-01	06/21/25 11:27
MW-8D	L2538382-02	38382-02	06/21/25 11:49
MW-5D	L2538382-03	38382-03	06/21/25 12:11
PZ-5	L2538382-04	38382-04	06/21/25 12:34
MW-12S	L2538382-05	38382-05	06/21/25 12:56
MW-12D	L2538382-06	38382-06	06/21/25 13:18
WG2081606-4MS	WG2081606-4	081606-4	06/21/25 13:41
WG2081606-5MSD	WG2081606-5	081606-5	06/21/25 14:03
DUP_06182025	L2538382-07	38382-07	06/21/25 14:26



Internal Standard Area and RT Summary

Form 8a

Semivolatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : DAKOTA
 Sample No : WG2081719-3

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Analysis Date : 06/21/25 06:27:00
 Lab File ID : ABN0621

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG2081719-3	34284	4.65	122540	5.89	91691	7.59
Upper Limit	68568	5.15	245080	6.39	183382	8.09
Lower Limit	17142	4.15	61270	5.39	45846	7.09
Sample ID						
WG2081719-4 CCAL	33532	4.65	118622	5.89	90024	7.59
WG2081719-5 CCAL	30827	4.65	-	-	78881	7.59
WG2081606-2 LCS	35332	4.65	124757	5.89	96588	7.59
WG2081606-3 LCSD	36865	4.65	126730	5.89	98342	7.59
WG2081606-1 BLANK	33724	4.65	117094	5.89	87442	7.59
MW-8S	33686	4.65	117033	5.89	87323	7.59
MW-8D	34496	4.65	122663	5.89	93031	7.59
MW-5D	34632	4.65	118877	5.89	95199	7.59
PZ-5	36510	4.65	120178	5.89	87527	7.59
MW-12S	31687	4.65	106515	5.89	84227	7.59
MW-12D	33611	4.65	112849	5.89	87230	7.59
MW-12D MS	36323	4.65	127920	5.89	100291	7.59
MW-12D MSD	38868	4.65	131178	5.89	99283	7.59
DUP_06182025	33339	4.65	117933	5.89	94546	7.59

Area Upper Limit = +100% of internal standard area
 Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
 RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits



Internal Standard Area and RT Summary

Form 8a

Semivolatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : DAKOTA
 Sample No : WG2081719-3

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Analysis Date : 06/21/25 06:27:00
 Lab File ID : ABN0621

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG2081719-3	216771	9.01	275522	11.63	328421	13.08
Upper Limit	433542	9.51	551044	12.13	656842	13.58
Lower Limit	108386	8.51	137761	11.13	164211	12.58
Sample ID						
WG2081719-4 CCAL	216143	9.01	-	-	-	-
WG2081719-5 CCAL	198240	9.01	-	-	-	-
WG2081606-2 LCS	226346	9.01	296781	11.63	349214	13.08
WG2081606-3 LCSD	233126	9.01	291724	11.63	349207	13.08
WG2081606-1 BLANK	209514	9.01	262017	11.63	305930	13.08
MW-8S	214084	9.01	269467	11.63	323340	13.08
MW-8D	224336	9.01	282807	11.63	333299	13.08
MW-5D	214757	9.01	279840	11.63	330953	13.08
PZ-5	200247	9.01	246219	11.63	309385	13.08
MW-12S	203658	9.01	262482	11.63	304079	13.08
MW-12D	217938	9.01	274464	11.63	320763	13.08
MW-12D MS	235226	9.01	301379	11.63	358619	13.08
MW-12D MSD	243860	9.01	309838	11.63	373294	13.08
DUP_06182025	222315	9.01	284590	11.63	334257	13.08

Area Upper Limit = +100% of internal standard area
 Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
 RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits





Date Created: 04/17/25
Created By: Jason Hebert
File: PM19302-1
Page: 1

ABN Extractables - EPA 8270E (RVT) (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 100ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	2	0.403	ug/l	37-111	30	37-111	30	30			
Benzidine	92-87-5	20	6.01	ug/l	10-75	30	10-75	30	30			
1,2,4-Trichlorobenzene	120-82-1	5	0.977	ug/l	39-98	30	39-98	30	30			
Hexachlorobenzene	118-74-1	2	0.452	ug/l	40-140	30	40-140	30	30			
Bis(2-chloroethyl)ether	111-44-4	2	0.392	ug/l	40-140	30	40-140	30	30			
2-Chloronaphthalene	91-58-7	2	0.35	ug/l	40-140	30	40-140	30	30			
1,2-Dichlorobenzene	95-50-1	2	0.329	ug/l	40-140	30	40-140	30	30			
1,3-Dichlorobenzene	541-73-1	2	0.315	ug/l	40-140	30	40-140	30	30			
1,4-Dichlorobenzene	106-46-7	2	0.391	ug/l	36-97	30	36-97	30	30			
3,3'-Dichlorobenzidine	91-94-1	5	1.85	ug/l	40-140	30	40-140	30	30			
2,4-Dinitrotoluene	121-14-2	5	0.541	ug/l	48-143	30	48-143	30	30			
2,6-Dinitrotoluene	606-20-2	5	0.845	ug/l	40-140	30	40-140	30	30			
Azobenzene	122-66-7	2	0.418	ug/l	40-140	30	40-140	30	30			
Fluoranthene	206-44-0	2	0.411	ug/l	40-140	30	40-140	30	30			
4-Chlorophenyl phenyl ether	7005-72-3	2	0.386	ug/l	40-140	30	40-140	30	30			
4-Bromophenyl phenyl ether	101-55-3	2	0.244	ug/l	40-140	30	40-140	30	30			
Bis(2-chloroisopropyl)ether	108-60-1	2	0.403	ug/l	40-140	30	40-140	30	30			
Bis(2-chloroethoxy)methane	111-91-1	5	0.842	ug/l	40-140	30	40-140	30	30			
Hexachlorobutadiene	87-68-3	2	0.355	ug/l	40-140	30	40-140	30	30			
Hexachlorocyclopentadiene	77-47-4	20	1.23	ug/l	40-140	30	40-140	30	30			
Hexachloroethane	67-72-1	2	0.203	ug/l	40-140	30	40-140	30	30			
Isophorone	78-59-1	5	0.862	ug/l	40-140	30	40-140	30	30			
Naphthalene	91-20-3	2	0.542	ug/l	40-140	30	40-140	30	30			
Nitrobenzene	98-95-3	2	0.205	ug/l	40-140	30	40-140	30	30			
NitrosoDiPhenylAmine(NDPA)/DPA	86-30-6	2	0.924	ug/l	40-140	30	40-140	30	30			
n-Nitrosodi-n-propylamine	621-64-7	5	0.906	ug/l	29-132	30	29-132	30	30			
Bis(2-Ethylhexyl)phthalate	117-81-7	3	1.42	ug/l	40-140	30	40-140	30	30			
Butyl benzyl phthalate	85-68-7	5	2.61	ug/l	40-140	30	40-140	30	30			
Di-n-butylphthalate	84-74-2	5	0.957	ug/l	40-140	30	40-140	30	30			
Di-n-octylphthalate	117-84-0	5	2.26	ug/l	40-140	30	40-140	30	30			
Diethyl phthalate	84-66-2	5	0.765	ug/l	40-140	30	40-140	30	30			
Dimethyl phthalate	131-11-3	5	0.916	ug/l	40-140	30	40-140	30	30			
Benzo(a)anthracene	56-55-3	2	0.323	ug/l	40-140	30	40-140	30	30			
Benzo(a)pyrene	50-32-8	2	0.368	ug/l	40-140	30	40-140	30	30			
Benzo(b)fluoranthene	205-99-2	2	0.533	ug/l	40-140	30	40-140	30	30			
Benzo(k)fluoranthene	207-08-9	2	0.621	ug/l	40-140	30	40-140	30	30			
Chrysene	218-01-9	2	0.222	ug/l	40-140	30	40-140	30	30			
Acenaphthylene	208-96-8	2	0.315	ug/l	45-123	30	45-123	30	30			
Anthracene	120-12-7	2	0.467	ug/l	40-140	30	40-140	30	30			
Benzo(ghi)perylene	191-24-2	2	0.369	ug/l	40-140	30	40-140	30	30			
Fluorene	86-73-7	2	0.439	ug/l	40-140	30	40-140	30	30			
Phenanthrene	85-01-8	2	0.419	ug/l	40-140	30	40-140	30	30			

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Pace Analytical Services.



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Date Created: 04/17/25
Created By: Jason Hebert
File: PM19302-1
Page: 2

ABN Extractables - EPA 8270E (RVT) (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 100ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Dibenzo(a,h)anthracene	53-70-3	2	0.286	ug/l	40-140	30	40-140	30	30			
Indeno(1,2,3-cd)Pyrene	193-39-5	2	0.484	ug/l	40-140	30	40-140	30	30			
Pyrene	129-00-0	2	0.407	ug/l	26-127	30	26-127	30	30			
Biphenyl	92-52-4	2	0.196	ug/l	40-140	30	40-140	30	30			
Aniline	62-53-3	2	0.67	ug/l	40-140	30	40-140	30	30			
4-Chloroaniline	106-47-8	5	0.468	ug/l	40-140	30	40-140	30	30			
1-Methylnaphthalene	90-12-0	2	0.415	ug/l	41-103	30	41-103	30	30			
2-Nitroaniline	88-74-4	5	1.03	ug/l	52-143	30	52-143	30	30			
3-Nitroaniline	99-09-2	5	1.16	ug/l	25-145	30	25-145	30	30			
4-Nitroaniline	100-01-6	5	1.45	ug/l	51-143	30	51-143	30	30			
Dibenzofuran	132-64-9	2	0.401	ug/l	40-140	30	40-140	30	30			
2-Methylnaphthalene	91-57-6	2	0.372	ug/l	40-140	30	40-140	30	30			
n-Nitrosodimethylamine	62-75-9	2	0.44	ug/l	22-74	30	22-74	30	30			
2,4,6-Trichlorophenol	88-06-2	5	2.09	ug/l	30-130	30	30-130	30	30			
P-Chloro-M-Cresol	59-50-7	2	0.606	ug/l	23-97	30	23-97	30	30			
2-Chlorophenol	95-57-8	2	0.653	ug/l	27-123	30	27-123	30	30			
2,4-Dichlorophenol	120-83-2	5	1.7	ug/l	30-130	30	30-130	30	30			
2,4-Dimethylphenol	105-67-9	5	2.04	ug/l	30-130	30	30-130	30	30			
2-Nitrophenol	88-75-5	10	1.95	ug/l	30-130	30	30-130	30	30			
4-Nitrophenol	100-02-7	10	1.42	ug/l	10-80	30	10-80	30	30			
2,4-Dinitrophenol	51-28-5	20	5.42	ug/l	20-130	30	20-130	30	30			
4,6-Dinitro-o-cresol	534-52-1	10	2.31	ug/l	20-164	30	20-164	30	30			
Pentachlorophenol	87-86-5	10	2.51	ug/l	9-103	30	9-103	30	30			
Phenol	108-95-2	5	0.35	ug/l	12-110	30	12-110	30	30			
2-Methylphenol	95-48-7	5	2.31	ug/l	30-130	30	30-130	30	30			
3-Methylphenol/4-Methylphenol	106-44-5	5	1.39	ug/l	30-130	30	30-130	30	30			
2,4,5-Trichlorophenol	95-95-4	5	2.07	ug/l	30-130	30	30-130	30	30			
Benzoic Acid	65-85-0	50	2.62	ug/l	10-164	30	10-164	30	30			
Benzyl Alcohol	100-51-6	2	0.381	ug/l	26-116	30	26-116	30	30			
Carbazole	86-74-8	2	0.309	ug/l	55-144	30	55-144	30	30			
Pyridine	110-86-1	3.5	0.308	ug/l	10-66	30	10-66	30	30			
2-Fluorophenol	367-12-4									21-120		
Phenol-d6	13127-88-3									10-120		
Nitrobenzene-d5	4165-60-0									23-120		
2-Fluorobiphenyl	321-60-8									15-120		
2,4,6-Tribromophenol	118-79-6									10-120		
4-Terphenyl-d14	1718-51-0									41-149		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Pace Analytical Services.



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Semivolatile Sample Data

Results Summary

Form 1

Semivolatile Organics by GC/MS

Client : Roux Env. Eng. & Geology, DPC Project Name : CORAM MATERIALS Lab ID : L2538382-01 Client ID : MW-8S Sample Location : 416 MILLER PLACE-YAPHANK RD. Sample Matrix : WATER Analytical Method : 1,8270E Lab File ID : 38382-01 Sample Amount : 100 ml Extraction Method : EPA 3510C Extract Volume : 1000 uL GPC Cleanup : N	Lab Number : L2538382 Project Number : 2232.0006Y005 Date Collected : 06/18/25 09:00 Date Received : 06/18/25 Date Analyzed : 06/21/25 11:27 Date Extracted : 06/20/25 Dilution Factor : 1 Analyst : SMZ Instrument ID : DAKOTA GC Column : RTX5-MS %Solids : N/A Injection Volume : 1 uL
---	--

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.4	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U



Results Summary

Form 1

Semivolatile Organics by GC/MS

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Lab ID : L2538382-01
 Client ID : MW-8S
 Sample Location : 416 MILLER PLACE-YAPHANK RD.
 Sample Matrix : WATER
 Analytical Method : 1,8270E
 Lab File ID : 38382-01
 Sample Amount : 100 ml
 Extraction Method : EPA 3510C
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Date Collected : 06/18/25 09:00
 Date Received : 06/18/25
 Date Analyzed : 06/21/25 11:27
 Date Extracted : 06/20/25
 Dilution Factor : 1
 Analyst : SMZ
 Instrument ID : DAKOTA
 GC Column : RTX5-MS
 %Solids : N/A
 Injection Volume : 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	ND	5.0	0.35	U
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U



Results Summary

Form 1

Semivolatile Organics by GC/MS

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Lab ID : L2538382-02
 Client ID : MW-8D
 Sample Location : 416 MILLER PLACE-YAPHANK RD.
 Sample Matrix : WATER
 Analytical Method : 1,8270E
 Lab File ID : 38382-02
 Sample Amount : 100 ml
 Extraction Method : EPA 3510C
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Date Collected : 06/18/25 09:05
 Date Received : 06/18/25
 Date Analyzed : 06/21/25 11:49
 Date Extracted : 06/20/25
 Dilution Factor : 1
 Analyst : SMZ
 Instrument ID : DAKOTA
 GC Column : RTX5-MS
 %Solids : N/A
 Injection Volume : 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.4	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U



Results Summary

Form 1

Semivolatile Organics by GC/MS

Client : Roux Env. Eng. & Geology, DPC Project Name : CORAM MATERIALS Lab ID : L2538382-02 Client ID : MW-8D Sample Location : 416 MILLER PLACE-YAPHANK RD. Sample Matrix : WATER Analytical Method : 1,8270E Lab File ID : 38382-02 Sample Amount : 100 ml Extraction Method : EPA 3510C Extract Volume : 1000 uL GPC Cleanup : N	Lab Number : L2538382 Project Number : 2232.0006Y005 Date Collected : 06/18/25 09:05 Date Received : 06/18/25 Date Analyzed : 06/21/25 11:49 Date Extracted : 06/20/25 Dilution Factor : 1 Analyst : SMZ Instrument ID : DAKOTA GC Column : RTX5-MS %Solids : N/A Injection Volume : 1 uL
---	--

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	ND	5.0	0.35	U
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U



Results Summary

Form 1

Semivolatile Organics by GC/MS

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Lab ID : L2538382-03
 Client ID : MW-5D
 Sample Location : 416 MILLER PLACE-YAPHANK RD.
 Sample Matrix : WATER
 Analytical Method : 1,8270E
 Lab File ID : 38382-03
 Sample Amount : 100 ml
 Extraction Method : EPA 3510C
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Date Collected : 06/18/25 10:30
 Date Received : 06/18/25
 Date Analyzed : 06/21/25 12:11
 Date Extracted : 06/20/25
 Dilution Factor : 1
 Analyst : SMZ
 Instrument ID : DAKOTA
 GC Column : RTX5-MS
 %Solids : N/A
 Injection Volume : 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.4	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U



Results Summary

Form 1

Semivolatile Organics by GC/MS

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Lab ID : L2538382-03
 Client ID : MW-5D
 Sample Location : 416 MILLER PLACE-YAPHANK RD.
 Sample Matrix : WATER
 Analytical Method : 1,8270E
 Lab File ID : 38382-03
 Sample Amount : 100 ml
 Extraction Method : EPA 3510C
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Date Collected : 06/18/25 10:30
 Date Received : 06/18/25
 Date Analyzed : 06/21/25 12:11
 Date Extracted : 06/20/25
 Dilution Factor : 1
 Analyst : SMZ
 Instrument ID : DAKOTA
 GC Column : RTX5-MS
 %Solids : N/A
 Injection Volume : 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	ND	5.0	0.35	U
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U



Results Summary

Form 1

Semivolatile Organics by GC/MS

Client : Roux Env. Eng. & Geology, DPC Project Name : CORAM MATERIALS Lab ID : L2538382-04 Client ID : PZ-5 Sample Location : 416 MILLER PLACE-YAPHANK RD. Sample Matrix : WATER Analytical Method : 1,8270E Lab File ID : 38382-04 Sample Amount : 100 ml Extraction Method : EPA 3510C Extract Volume : 1000 uL GPC Cleanup : N	Lab Number : L2538382 Project Number : 2232.0006Y005 Date Collected : 06/18/25 10:45 Date Received : 06/18/25 Date Analyzed : 06/21/25 12:34 Date Extracted : 06/20/25 Dilution Factor : 1 Analyst : SMZ Instrument ID : DAKOTA GC Column : RTX5-MS %Solids : N/A Injection Volume : 1 uL
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CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.4	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U



Results Summary

Form 1

Semivolatile Organics by GC/MS

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Lab ID : L2538382-04
 Client ID : PZ-5
 Sample Location : 416 MILLER PLACE-YAPHANK RD.
 Sample Matrix : WATER
 Analytical Method : 1,8270E
 Lab File ID : 38382-04
 Sample Amount : 100 ml
 Extraction Method : EPA 3510C
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Date Collected : 06/18/25 10:45
 Date Received : 06/18/25
 Date Analyzed : 06/21/25 12:34
 Date Extracted : 06/20/25
 Dilution Factor : 1
 Analyst : SMZ
 Instrument ID : DAKOTA
 GC Column : RTX5-MS
 %Solids : N/A
 Injection Volume : 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	ND	5.0	0.35	U
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U



Results Summary

Form 1

Semivolatile Organics by GC/MS

Client : Roux Env. Eng. & Geology, DPC Project Name : CORAM MATERIALS Lab ID : L2538382-05 Client ID : MW-12S Sample Location : 416 MILLER PLACE-YAPHANK RD. Sample Matrix : WATER Analytical Method : 1,8270E Lab File ID : 38382-05 Sample Amount : 100 ml Extraction Method : EPA 3510C Extract Volume : 1000 uL GPC Cleanup : N	Lab Number : L2538382 Project Number : 2232.0006Y005 Date Collected : 06/18/25 13:20 Date Received : 06/18/25 Date Analyzed : 06/21/25 12:56 Date Extracted : 06/20/25 Dilution Factor : 1 Analyst : SMZ Instrument ID : DAKOTA GC Column : RTX5-MS %Solids : N/A Injection Volume : 1 uL
--	--

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.4	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U



Results Summary

Form 1

Semivolatile Organics by GC/MS

Client : Roux Env. Eng. & Geology, DPC Project Name : CORAM MATERIALS Lab ID : L2538382-05 Client ID : MW-12S Sample Location : 416 MILLER PLACE-YAPHANK RD. Sample Matrix : WATER Analytical Method : 1,8270E Lab File ID : 38382-05 Sample Amount : 100 ml Extraction Method : EPA 3510C Extract Volume : 1000 uL GPC Cleanup : N	Lab Number : L2538382 Project Number : 2232.0006Y005 Date Collected : 06/18/25 13:20 Date Received : 06/18/25 Date Analyzed : 06/21/25 12:56 Date Extracted : 06/20/25 Dilution Factor : 1 Analyst : SMZ Instrument ID : DAKOTA GC Column : RTX5-MS %Solids : N/A Injection Volume : 1 uL
--	--

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	ND	5.0	0.35	U
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U



Results Summary

Form 1

Semivolatile Organics by GC/MS

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Lab ID : L2538382-06
 Client ID : MW-12D
 Sample Location : 416 MILLER PLACE-YAPHANK RD.
 Sample Matrix : WATER
 Analytical Method : 1,8270E
 Lab File ID : 38382-06
 Sample Amount : 100 ml
 Extraction Method : EPA 3510C
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Date Collected : 06/18/25 13:22
 Date Received : 06/18/25
 Date Analyzed : 06/21/25 13:18
 Date Extracted : 06/20/25
 Dilution Factor : 1
 Analyst : SMZ
 Instrument ID : DAKOTA
 GC Column : RTX5-MS
 %Solids : N/A
 Injection Volume : 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.4	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U



Results Summary

Form 1

Semivolatile Organics by GC/MS

Client : Roux Env. Eng. & Geology, DPC Project Name : CORAM MATERIALS Lab ID : L2538382-06 Client ID : MW-12D Sample Location : 416 MILLER PLACE-YAPHANK RD. Sample Matrix : WATER Analytical Method : 1,8270E Lab File ID : 38382-06 Sample Amount : 100 ml Extraction Method : EPA 3510C Extract Volume : 1000 uL GPC Cleanup : N	Lab Number : L2538382 Project Number : 2232.0006Y005 Date Collected : 06/18/25 13:22 Date Received : 06/18/25 Date Analyzed : 06/21/25 13:18 Date Extracted : 06/20/25 Dilution Factor : 1 Analyst : SMZ Instrument ID : DAKOTA GC Column : RTX5-MS %Solids : N/A Injection Volume : 1 uL
--	--

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	ND	5.0	0.35	U
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U



Results Summary

Form 1

Semivolatile Organics by GC/MS

Client : Roux Env. Eng. & Geology, DPC Project Name : CORAM MATERIALS Lab ID : L2538382-07 Client ID : DUP_06182025 Sample Location : 416 MILLER PLACE-YAPHANK RD. Sample Matrix : WATER Analytical Method : 1,8270E Lab File ID : 38382-07 Sample Amount : 100 ml Extraction Method : EPA 3510C Extract Volume : 1000 uL GPC Cleanup : N	Lab Number : L2538382 Project Number : 2232.0006Y005 Date Collected : 06/18/25 12:00 Date Received : 06/18/25 Date Analyzed : 06/21/25 14:26 Date Extracted : 06/20/25 Dilution Factor : 1 Analyst : SMZ Instrument ID : DAKOTA GC Column : RTX5-MS %Solids : N/A Injection Volume : 1 uL
--	--

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.4	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U



Results Summary

Form 1

Semivolatile Organics by GC/MS

Client : Roux Env. Eng. & Geology, DPC Project Name : CORAM MATERIALS Lab ID : L2538382-07 Client ID : DUP_06182025 Sample Location : 416 MILLER PLACE-YAPHANK RD. Sample Matrix : WATER Analytical Method : 1,8270E Lab File ID : 38382-07 Sample Amount : 100 ml Extraction Method : EPA 3510C Extract Volume : 1000 uL GPC Cleanup : N	Lab Number : L2538382 Project Number : 2232.0006Y005 Date Collected : 06/18/25 12:00 Date Received : 06/18/25 Date Analyzed : 06/21/25 14:26 Date Extracted : 06/20/25 Dilution Factor : 1 Analyst : SMZ Instrument ID : DAKOTA GC Column : RTX5-MS %Solids : N/A Injection Volume : 1 uL
--	--

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	ND	5.0	0.35	U
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U



Results Summary

Form 1

Semivolatile Organics by GC/MS

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Lab ID : WG2081606-1
 Client ID : WG2081606-1BLANK
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8270E
 Lab File ID : 081606-1
 Sample Amount : 100 ml
 Extraction Method : EPA 3510C
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 06/21/25 09:58
 Date Extracted : 06/20/25
 Dilution Factor : 1
 Analyst : SMZ
 Instrument ID : DAKOTA
 GC Column : RTX5-MS
 %Solids : N/A
 Injection Volume : 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.8	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.54	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.84	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.39	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.24	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.40	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.84	U
77-47-4	Hexachlorocyclopentadiene	ND	20	1.2	U
78-59-1	Isophorone	ND	5.0	0.86	U
98-95-3	Nitrobenzene	ND	2.0	0.20	U
86-30-6	NDPA/DPA	ND	2.0	0.92	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.91	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	3.0	1.4	U
85-68-7	Butyl benzyl phthalate	ND	5.0	2.6	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.96	U
117-84-0	Di-n-octylphthalate	ND	5.0	2.3	U
84-66-2	Diethyl phthalate	ND	5.0	0.76	U
131-11-3	Dimethyl phthalate	ND	5.0	0.92	U
92-52-4	Biphenyl	ND	2.0	0.20	U
106-47-8	4-Chloroaniline	ND	5.0	0.47	U
88-74-4	2-Nitroaniline	ND	5.0	1.0	U
99-09-2	3-Nitroaniline	ND	5.0	1.2	U



Results Summary

Form 1

Semivolatile Organics by GC/MS

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Lab ID : WG2081606-1
 Client ID : WG2081606-1BLANK
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8270E
 Lab File ID : 081606-1
 Sample Amount : 100 ml
 Extraction Method : EPA 3510C
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 06/21/25 09:58
 Date Extracted : 06/20/25
 Dilution Factor : 1
 Analyst : SMZ
 Instrument ID : DAKOTA
 GC Column : RTX5-MS
 %Solids : N/A
 Injection Volume : 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
100-01-6	4-Nitroaniline	ND	5.0	1.4	U
132-64-9	Dibenzofuran	ND	2.0	0.40	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.24	U
98-86-2	Acetophenone	ND	5.0	0.92	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	2.1	U
59-50-7	p-Chloro-m-cresol	ND	2.0	0.61	U
95-57-8	2-Chlorophenol	ND	2.0	0.65	U
120-83-2	2,4-Dichlorophenol	ND	5.0	1.7	U
105-67-9	2,4-Dimethylphenol	ND	5.0	2.0	U
88-75-5	2-Nitrophenol	ND	10	2.0	U
100-02-7	4-Nitrophenol	ND	10	1.4	U
51-28-5	2,4-Dinitrophenol	ND	20	5.4	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.3	U
108-95-2	Phenol	ND	5.0	0.35	U
95-48-7	2-Methylphenol	ND	5.0	2.3	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.4	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	2.1	U
86-74-8	Carbazole	ND	2.0	0.31	U
1912-24-9	Atrazine	ND	10	1.0	U
100-52-7	Benzaldehyde	ND	5.0	1.1	U
105-60-2	Caprolactam	ND	10	1.2	U



Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250621RVT\
 Data File : 38382-01.D
 Acq On : 21 Jun 2025 11:27 am
 Operator : Dakota:smz
 Sample : L2538382-01,32,,gmr
 Misc : WG2081719,WG2081606,ical22203
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 26 15:39:32 2025
 Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sat Jun 21 07:32:38 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250621RVT\ABN0621.D
 : 2 - I:\8270\Dakota\250621RVT\ADP0621.D
 : 3 - I:\8270\Dakota\250621RVT\AP90621.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.654	152	33686	4.000	ug/ml	0.00
Standard Area 1 = 34284			Recovery =	98.26%		
27) IS2_1,4-Dichlorobenzen...	4.654	152	33686	4.000	ug/ml	0.00
Standard Area 3 = 33532			Recovery =	100.46%		
37) IS1_Naphthalene-d8	5.885	136	117033	4.000	ug/ml	# 0.00
Standard Area 1 = 122540			Recovery =	95.51%		
57) IS2_Naphthalene-d8	5.885	136	117033	4.000	ug/ml	# 0.00
Standard Area 3 = 118622			Recovery =	98.66%		
65) IS1_Acenaphthene-d10	7.585	164	87323	4.000	ug/ml	0.00
Standard Area 1 = 91691			Recovery =	95.24%		
85) IS2_Acenaphthene-d10	7.585	164	87323	4.000	ug/ml	0.00
Standard Area 3 = 90024			Recovery =	97.00%		
88) IS3_Acenaphthene-d10	7.585	164	87323	4.000	ug/ml	0.00
Standard Area 2 = 78881			Recovery =	110.70%		
90) IS1_Phenanthrene-d10	9.012	188	214084	4.000	ug/ml	0.00
Standard Area 1 = 216771			Recovery =	98.76%		
102) IS3_Phenanthrene-d10	9.012	188	214084	4.000	ug/ml	0.00
Standard Area 2 = 198240			Recovery =	107.99%		
106) IS1_Chrysene-d12	11.629	240	269467	4.000	ug/ml	# 0.00
Standard Area 1 = 275522			Recovery =	97.80%		
115) IS1_Perylene-d12	13.083	264	323340	4.000	ug/ml	0.00
Standard Area 1 = 328421			Recovery =	98.45%		
System Monitoring Compounds						
4) 2-Fluorophenol	3.383	112	7855	0.908	ug/ml	0.00
Spiked Amount 2.000		Range 15 - 110	Recovery =	45.40%		
7) Phenol-d6	4.334	99	7261	0.681	ug/ml	0.00
Spiked Amount 2.000		Range 15 - 110	Recovery =	34.05%		
19) Nitrobenzene-d5	5.195	82	8172	0.715	ug/ml	0.00
Spiked Amount 1.000		Range 30 - 130	Recovery =	71.50%		
48) 2-Fluorobiphenyl	6.954	172	21214	0.696	ug/ml	0.00
Spiked Amount 1.000		Range 30 - 130	Recovery =	69.60%		
81) 2,4,6-Tribromophenol	8.344	330	10639	2.069	ug/ml	0.00
Spiked Amount 2.000		Range 15 - 110	Recovery =	103.45%		
98) 4-Terphenyl-d14	10.585	244	48352	0.845	ug/ml	0.00
Spiked Amount 1.000		Range 30 - 130	Recovery =	84.50%		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250621RVT\
 Data File : 38382-01.D
 Acq On : 21 Jun 2025 11:27 am
 Operator : Dakota:smz
 Sample : L2538382-01,32,,gmr
 Misc : WG2081719,WG2081606,ical22203
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 26 15:39:32 2025
 Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sat Jun 21 07:32:38 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250621RVT\ABN0621.D
 : 2 - I:\8270\Dakota\250621RVT\ADP0621.D
 : 3 - I:\8270\Dakota\250621RVT\AP90621.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
40) 4-Chloroaniline	0.000		0	N.D.		
42) p-Chloro-m-cresol	0.000		0	N.D.		
45) Hexachlorocyclopentadiene	0.000		0	N.D.		
46) 2,4,6-Trichlorophenol	0.000		0	N.D.		
47) 2,4,5-Trichlorophenol	0.000		0	N.D.		
50) 2-Nitroaniline	0.000		0	N.D.		
53) Dimethyl phthalate	0.000		0	N.D.	d	
55) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
62) Caprolactam	0.000		0	N.D.		
63) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
64) Biphenyl	0.000		0	N.D.		
66) 3-Nitroaniline	0.000		0	N.D.		
68) 2,4-Dinitrophenol	0.000		0	N.D.		
69) Dibenzofuran	0.000		0	N.D.		
70) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
71) 4-Nitrophenol	0.000		0	N.D.		
74) Diethyl phthalate	0.000		0	N.D.		
76) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
77) 4-Nitroaniline	0.000		0	N.D.		
78) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
79) NDPA/DPA	0.000		0	N.D.		
82) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250621RVT\
 Data File : 38382-01.D
 Acq On : 21 Jun 2025 11:27 am
 Operator : Dakota:smz
 Sample : L2538382-01,32,,gmr
 Misc : WG2081719,WG2081606,ical22203
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 26 15:39:32 2025
 Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sat Jun 21 07:32:38 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250621RVT\ABN0621.D
 : 2 - I:\8270\Dakota\250621RVT\ADP0621.D
 : 3 - I:\8270\Dakota\250621RVT\AP90621.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
89)	Atrazine	0.000		0		N.D.	
93)	Carbazole	0.000		0		N.D.	
94)	Di-n-butylphthalate	0.000		0		N.D.	d
99)	Butyl benzyl phthalate	0.000		0		N.D.	
108)	3,3'-Dichlorobenzidine	0.000		0		N.D.	
110)	Bis(2-ethylhexyl)phtha...	0.000		0		N.D.	
111)	Di-n-octylphthalate	0.000		0		N.D.	d

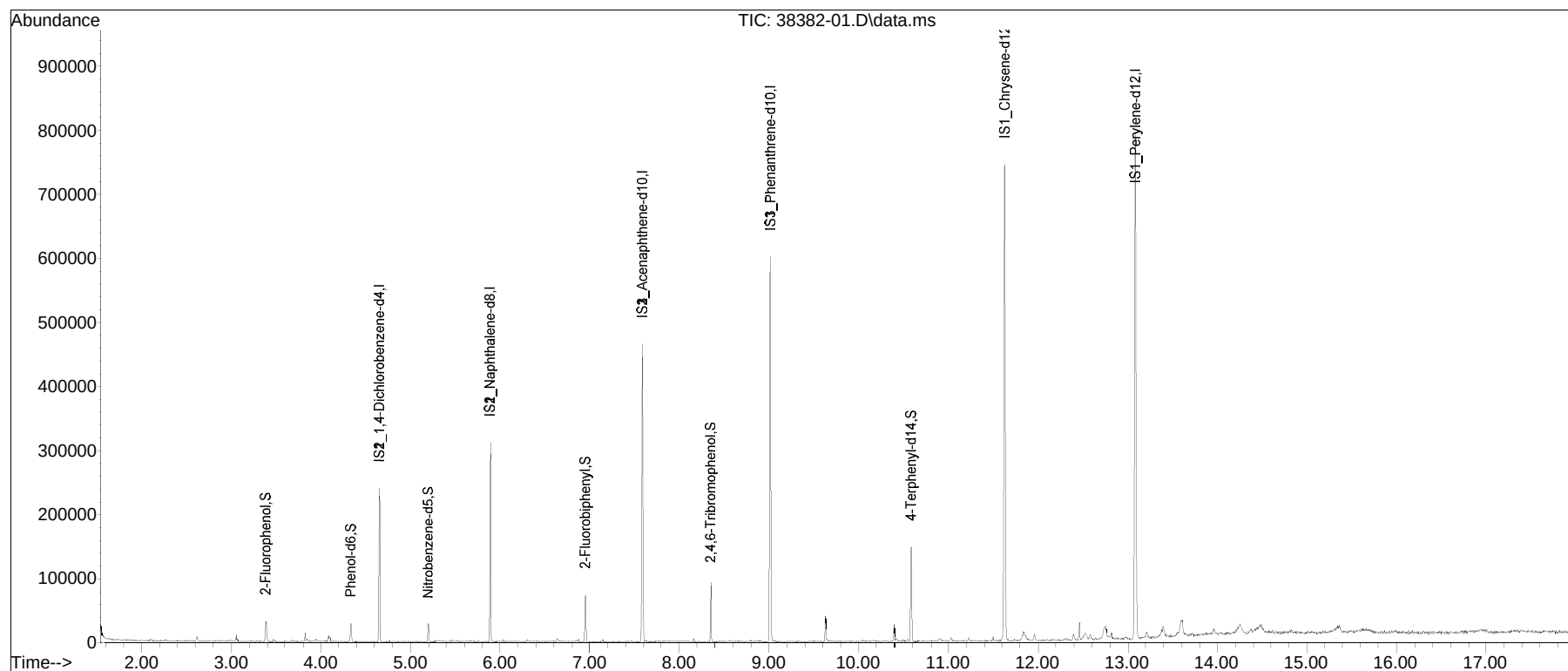
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250621RVT\
 Data File : 38382-01.D
 Acq On : 21 Jun 2025 11:27 am
 Operator : Dakota:smz
 Sample : L2538382-01,32,,gmr
 Misc : WG2081719,WG2081606,ical22203
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 26 15:39:32 2025
 Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sat Jun 21 07:32:38 2025
 Response via : Initial Calibration

Sub List : 8270IC\827001.D\REV1\250621RVT\MAP90621.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\250621RVT\	QMethod	: FS250416RVT_Dakota.m
Data File	: 38382-01.D	Operator	: Dakota:smz
Date Inj'd	: 6/21/2025 11:27 am	Instrument	: Dakota
Sample	: L2538382-01,32,,gmr	Quant Date	: 6/21/2025 11:45 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250621RVT\
 Data File : 38382-02.D
 Acq On : 21 Jun 2025 11:49 am
 Operator : Dakota:smz
 Sample : L2538382-02,32,,gmr
 Misc : WG2081719,WG2081606,ical22203
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 26 15:46:19 2025
 Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sat Jun 21 07:32:38 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250621RVT\ABN0621.D
 : 2 - I:\8270\Dakota\250621RVT\ADP0621.D
 : 3 - I:\8270\Dakota\250621RVT\AP90621.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.654	152	34496	4.000	ug/ml	0.00
Standard Area 1 = 34284			Recovery =	100.62%		
27) IS2_1,4-Dichlorobenzen...	4.654	152	34496	4.000	ug/ml	0.00
Standard Area 3 = 33532			Recovery =	102.87%		
37) IS1_Naphthalene-d8	5.885	136	122663	4.000	ug/ml	# 0.00
Standard Area 1 = 122540			Recovery =	100.10%		
57) IS2_Naphthalene-d8	5.885	136	122663	4.000	ug/ml	# 0.00
Standard Area 3 = 118622			Recovery =	103.41%		
65) IS1_Acenaphthene-d10	7.585	164	93031	4.000	ug/ml	0.00
Standard Area 1 = 91691			Recovery =	101.46%		
85) IS2_Acenaphthene-d10	7.585	164	93031	4.000	ug/ml	0.00
Standard Area 3 = 90024			Recovery =	103.34%		
88) IS3_Acenaphthene-d10	7.585	164	93031	4.000	ug/ml	0.00
Standard Area 2 = 78881			Recovery =	117.94%		
90) IS1_Phenanthrene-d10	9.012	188	224336	4.000	ug/ml	0.00
Standard Area 1 = 216771			Recovery =	103.49%		
102) IS3_Phenanthrene-d10	9.012	188	224336	4.000	ug/ml	0.00
Standard Area 2 = 198240			Recovery =	113.16%		
106) IS1_Chrysene-d12	11.629	240	282807	4.000	ug/ml	# 0.00
Standard Area 1 = 275522			Recovery =	102.64%		
115) IS1_Perylene-d12	13.083	264	333299	4.000	ug/ml	0.00
Standard Area 1 = 328421			Recovery =	101.49%		
System Monitoring Compounds						
4) 2-Fluorophenol	3.383	112	9433	1.065	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	53.25%		
7) Phenol-d6	4.334	99	7763	0.711	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	35.55%		
19) Nitrobenzene-d5	5.192	82	8178	0.698	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	69.80%		
48) 2-Fluorobiphenyl	6.954	172	20761	0.650	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	65.00%		
81) 2,4,6-Tribromophenol	8.347	330	10242	1.870	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	93.50%		
98) 4-Terphenyl-d14	10.581	244	47908	0.799	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	79.90%		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250621RVT\
 Data File : 38382-02.D
 Acq On : 21 Jun 2025 11:49 am
 Operator : Dakota:smz
 Sample : L2538382-02,32,,gmr
 Misc : WG2081719,WG2081606,ical22203
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 26 15:46:19 2025
 Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sat Jun 21 07:32:38 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250621RVT\ABN0621.D
 : 2 - I:\8270\Dakota\250621RVT\ADP0621.D
 : 3 - I:\8270\Dakota\250621RVT\AP90621.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
40) 4-Chloroaniline	0.000		0	N.D.		
42) p-Chloro-m-cresol	0.000		0	N.D.		
45) Hexachlorocyclopentadiene	0.000		0	N.D.		
46) 2,4,6-Trichlorophenol	0.000		0	N.D.		
47) 2,4,5-Trichlorophenol	0.000		0	N.D.		
50) 2-Nitroaniline	0.000		0	N.D.		
53) Dimethyl phthalate	0.000		0	N.D.	d	
55) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
62) Caprolactam	0.000		0	N.D.		
63) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
64) Biphenyl	0.000		0	N.D.		
66) 3-Nitroaniline	0.000		0	N.D.		
68) 2,4-Dinitrophenol	0.000		0	N.D.		
69) Dibenzofuran	0.000		0	N.D.		
70) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
71) 4-Nitrophenol	0.000		0	N.D.		
74) Diethyl phthalate	0.000		0	N.D.		
76) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
77) 4-Nitroaniline	0.000		0	N.D.		
78) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
79) NDPA/DPA	0.000		0	N.D.		
82) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250621RVT\
 Data File : 38382-02.D
 Acq On : 21 Jun 2025 11:49 am
 Operator : Dakota:smz
 Sample : L2538382-02,32,,gmr
 Misc : WG2081719,WG2081606,ical22203
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 26 15:46:19 2025
 Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sat Jun 21 07:32:38 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250621RVT\ABN0621.D
 : 2 - I:\8270\Dakota\250621RVT\ADP0621.D
 : 3 - I:\8270\Dakota\250621RVT\AP90621.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
89)	Atrazine	0.000		0		N.D.	
93)	Carbazole	0.000		0		N.D.	
94)	Di-n-butylphthalate	9.640	149	3376	0.055	ug/ml#	79
99)	Butyl benzyl phthalate	0.000		0		N.D.	
108)	3,3'-Dichlorobenzidine	0.000		0		N.D.	
110)	Bis(2-ethylhexyl)phtha...	0.000		0		N.D. d	
111)	Di-n-octylphthalate	0.000		0		N.D. d	

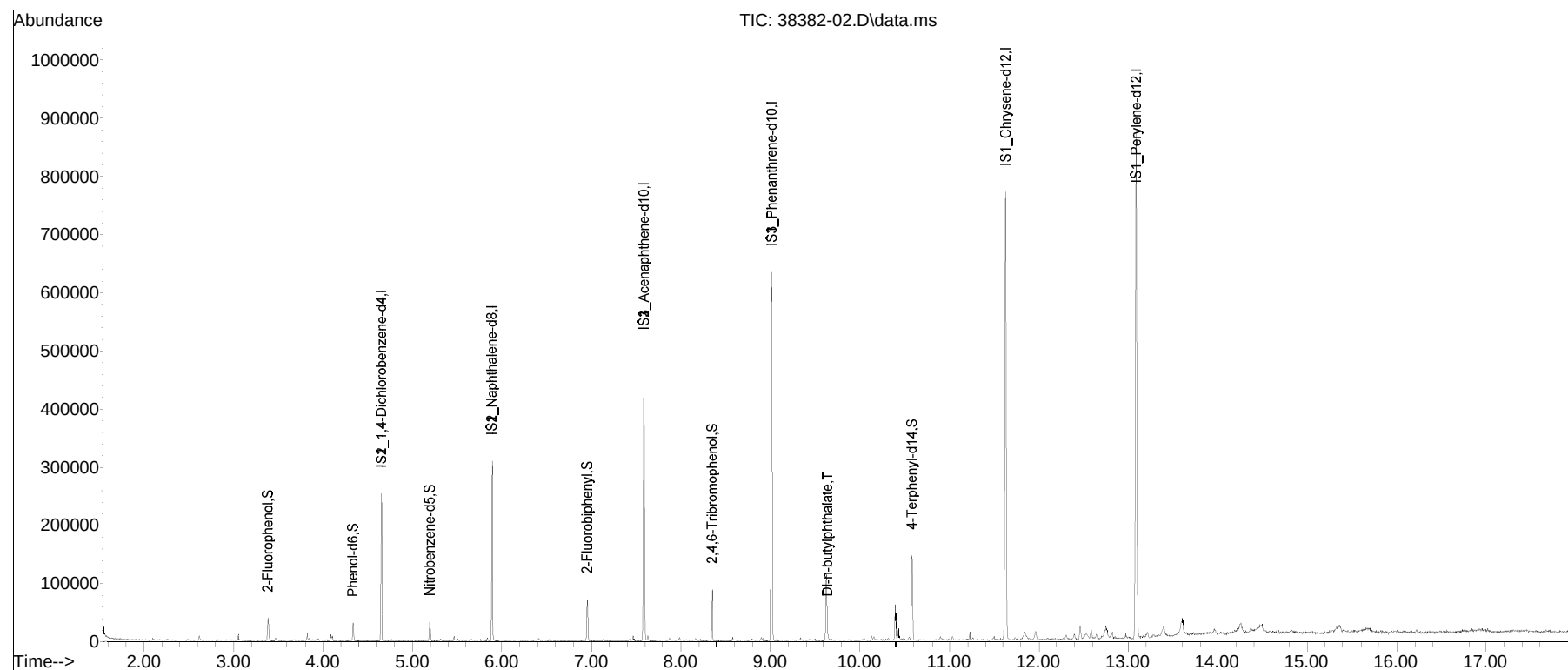
(#) = qualifier out of range (m) = manual integration (+) = signals summed

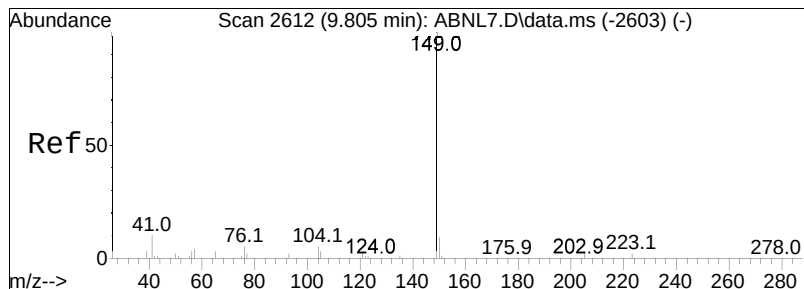
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250621RVT\
 Data File : 38382-02.D
 Acq On : 21 Jun 2025 11:49 am
 Operator : Dakota:smz
 Sample : L2538382-02,32,,gmr
 Misc : WG2081719,WG2081606,ical22203
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 26 15:46:19 2025
 Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sat Jun 21 07:32:38 2025
 Response via : Initial Calibration

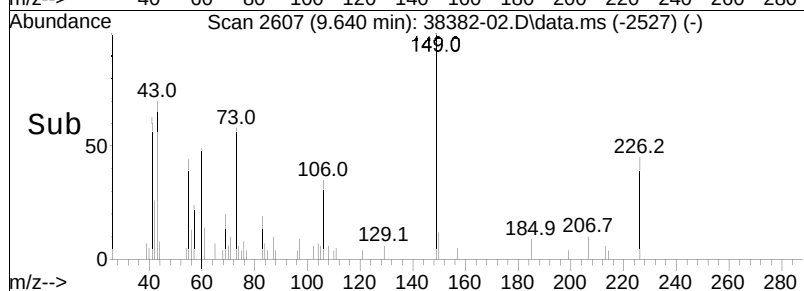
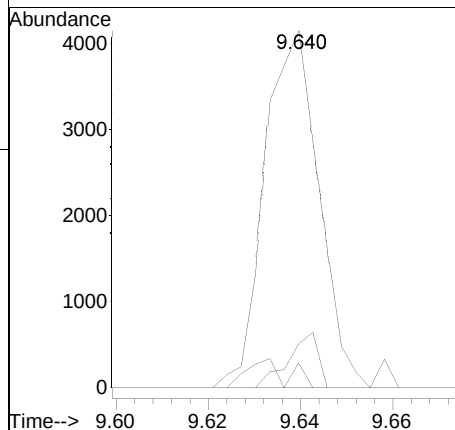
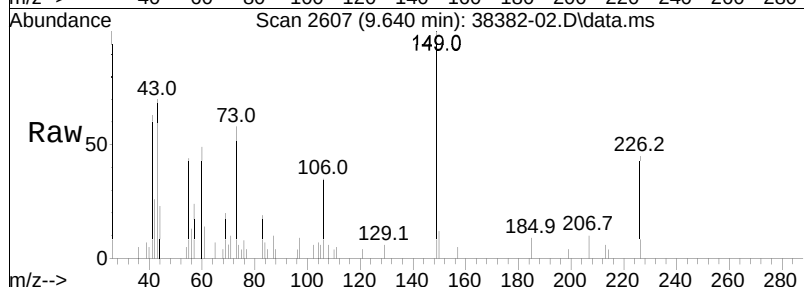
Sub List : 8270IC\8270bDaR5V1\250621RVTMAP90621.D•





#94
 Di-n-butylphthalate
 Concen: 0.05 ug/ml
 RT: 9.640 min Scan# 2607
 Delta R.T. -0.000 min
 Lab File: 38382-02.D
 Acq: 21 Jun 2025 11:49 am

Tgt Ion	Ratio	Resp	Lower	Upper
149	100	3376		
150	0.0	7.0	10.6#	
104	0.0	4.5	6.7#	



Manual Integration Report

Data Path	: I:\8270\Dakota\250621RVT\	QMethod	: FS250416RVT_Dakota.m
Data File	: 38382-02.D	Operator	: Dakota:smz
Date Inj'd	: 6/21/2025 11:49 am	Instrument	: Dakota
Sample	: L2538382-02,32,,gmr	Quant Date	: 6/21/2025 12:07 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250621RVT\
 Data File : 38382-03.D
 Acq On : 21 Jun 2025 12:11 pm
 Operator : Dakota:smz
 Sample : L2538382-03,32,,gmr
 Misc : WG2081719,WG2081606,ical22203
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 26 15:46:41 2025
 Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sat Jun 21 07:32:38 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250621RVT\ABN0621.D
 : 2 - I:\8270\Dakota\250621RVT\ADP0621.D
 : 3 - I:\8270\Dakota\250621RVT\AP90621.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.654	152	34632	4.000	ug/ml	0.00
Standard Area 1 = 34284			Recovery =	101.02%		
27) IS2_1,4-Dichlorobenzen...	4.654	152	34632	4.000	ug/ml	0.00
Standard Area 3 = 33532			Recovery =	103.28%		
37) IS1_Naphthalene-d8	5.885	136	118877	4.000	ug/ml	# 0.00
Standard Area 1 = 122540			Recovery =	97.01%		
57) IS2_Naphthalene-d8	5.885	136	118877	4.000	ug/ml	# 0.00
Standard Area 3 = 118622			Recovery =	100.21%		
65) IS1_Acenaphthene-d10	7.585	164	95199	4.000	ug/ml	0.00
Standard Area 1 = 91691			Recovery =	103.83%		
85) IS2_Acenaphthene-d10	7.585	164	95199	4.000	ug/ml	0.00
Standard Area 3 = 90024			Recovery =	105.75%		
88) IS3_Acenaphthene-d10	7.585	164	95199	4.000	ug/ml	0.00
Standard Area 2 = 78881			Recovery =	120.69%		
90) IS1_Phenanthrene-d10	9.012	188	214757	4.000	ug/ml	0.00
Standard Area 1 = 216771			Recovery =	99.07%		
102) IS3_Phenanthrene-d10	9.012	188	214757	4.000	ug/ml	0.00
Standard Area 2 = 198240			Recovery =	108.33%		
106) IS1_Chrysene-d12	11.629	240	279840	4.000	ug/ml	# 0.00
Standard Area 1 = 275522			Recovery =	101.57%		
115) IS1_Perylene-d12	13.083	264	330953	4.000	ug/ml	0.00
Standard Area 1 = 328421			Recovery =	100.77%		
System Monitoring Compounds						
4) 2-Fluorophenol	3.383	112	8333	0.937	ug/ml	0.00
Spiked Amount 2.000			Recovery =	46.85%		
7) Phenol-d6	4.334	99	7549	0.688	ug/ml	0.00
Spiked Amount 2.000			Recovery =	34.40%		
19) Nitrobenzene-d5	5.195	82	8250	0.702	ug/ml	0.00
Spiked Amount 1.000			Recovery =	70.20%		
48) 2-Fluorobiphenyl	6.954	172	21296	0.688	ug/ml	0.00
Spiked Amount 1.000			Recovery =	68.80%		
81) 2,4,6-Tribromophenol	8.347	330	10083	1.799	ug/ml	0.00
Spiked Amount 2.000			Recovery =	89.95%		
98) 4-Terphenyl-d14	10.581	244	49841	0.868	ug/ml	0.00
Spiked Amount 1.000			Recovery =	86.80%		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250621RVT\
 Data File : 38382-03.D
 Acq On : 21 Jun 2025 12:11 pm
 Operator : Dakota:smz
 Sample : L2538382-03,32,,gmr
 Misc : WG2081719,WG2081606,ical22203
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 26 15:46:41 2025
 Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sat Jun 21 07:32:38 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250621RVT\ABN0621.D
 : 2 - I:\8270\Dakota\250621RVT\ADP0621.D
 : 3 - I:\8270\Dakota\250621RVT\AP90621.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
40) 4-Chloroaniline	0.000		0	N.D.		
42) p-Chloro-m-cresol	0.000		0	N.D.		
45) Hexachlorocyclopentadiene	0.000		0	N.D.		
46) 2,4,6-Trichlorophenol	0.000		0	N.D.		
47) 2,4,5-Trichlorophenol	0.000		0	N.D.		
50) 2-Nitroaniline	0.000		0	N.D.		
53) Dimethyl phthalate	0.000		0	N.D.	d	
55) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
62) Caprolactam	0.000		0	N.D.		
63) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
64) Biphenyl	0.000		0	N.D.		
66) 3-Nitroaniline	0.000		0	N.D.		
68) 2,4-Dinitrophenol	0.000		0	N.D.		
69) Dibenzofuran	0.000		0	N.D.		
70) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
71) 4-Nitrophenol	0.000		0	N.D.		
74) Diethyl phthalate	0.000		0	N.D.		
76) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
77) 4-Nitroaniline	0.000		0	N.D.		
78) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
79) NDPA/DPA	0.000		0	N.D.		
82) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250621RVT\
 Data File : 38382-03.D
 Acq On : 21 Jun 2025 12:11 pm
 Operator : Dakota:smz
 Sample : L2538382-03,32,,gmr
 Misc : WG2081719,WG2081606,ical22203
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 26 15:46:41 2025
 Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sat Jun 21 07:32:38 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250621RVT\ABN0621.D
 : 2 - I:\8270\Dakota\250621RVT\ADP0621.D
 : 3 - I:\8270\Dakota\250621RVT\AP90621.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
89)	Atrazine	0.000		0		N.D.	
93)	Carbazole	0.000		0		N.D.	
94)	Di-n-butylphthalate	0.000		0		N.D.	d
99)	Butyl benzyl phthalate	0.000		0		N.D.	
108)	3,3'-Dichlorobenzidine	0.000		0		N.D.	
110)	Bis(2-ethylhexyl)phtha...	0.000		0		N.D.	d
111)	Di-n-octylphthalate	0.000		0		N.D.	d

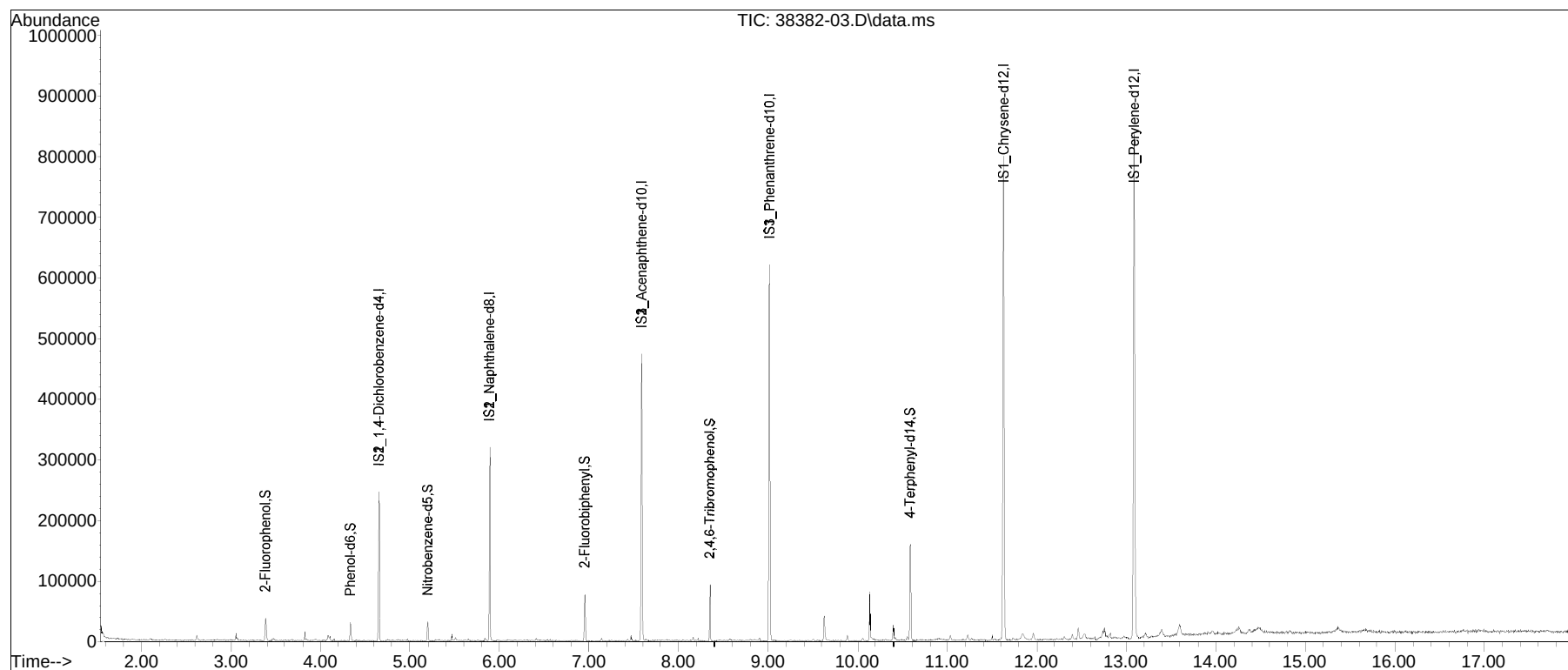
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250621RVT\
 Data File : 38382-03.D
 Acq On : 21 Jun 2025 12:11 pm
 Operator : Dakota:smz
 Sample : L2538382-03,32,,gmr
 Misc : WG2081719,WG2081606,ical22203
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 26 15:46:41 2025
 Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sat Jun 21 07:32:38 2025
 Response via : Initial Calibration

Sub List : 8270IC\8270bDaR5V1\250621RVTMAP90621.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\250621RVT\	QMethod	: FS250416RVT_Dakota.m
Data File	: 38382-03.D	Operator	: Dakota:smz
Date Inj'd	: 6/21/2025 12:11 pm	Instrument	: Dakota
Sample	: L2538382-03, 32,,gmr	Quant Date	: 6/21/2025 12:30 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250621RVT\
 Data File : 38382-04.D
 Acq On : 21 Jun 2025 12:34 pm
 Operator : Dakota:smz
 Sample : L2538382-04,32,,gmr
 Misc : WG2081719,WG2081606,ical22203
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 26 15:47:04 2025
 Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sat Jun 21 07:32:38 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250621RVT\ABN0621.D
 : 2 - I:\8270\Dakota\250621RVT\ADP0621.D
 : 3 - I:\8270\Dakota\250621RVT\AP90621.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.654	152	36510	4.000	ug/ml	0.00
Standard Area 1 = 34284			Recovery =	106.49%		
27) IS2_1,4-Dichlorobenzen...	4.654	152	36510	4.000	ug/ml	0.00
Standard Area 3 = 33532			Recovery =	108.88%		
37) IS1_Naphthalene-d8	5.885	136	120178	4.000	ug/ml	# 0.00
Standard Area 1 = 122540			Recovery =	98.07%		
57) IS2_Naphthalene-d8	5.885	136	120178	4.000	ug/ml	# 0.00
Standard Area 3 = 118622			Recovery =	101.31%		
65) IS1_Acenaphthene-d10	7.585	164	87527	4.000	ug/ml	0.00
Standard Area 1 = 91691			Recovery =	95.46%		
85) IS2_Acenaphthene-d10	7.585	164	87527	4.000	ug/ml	0.00
Standard Area 3 = 90024			Recovery =	97.23%		
88) IS3_Acenaphthene-d10	7.585	164	87527	4.000	ug/ml	0.00
Standard Area 2 = 78881			Recovery =	110.96%		
90) IS1_Phenanthrene-d10	9.012	188	200247	4.000	ug/ml	0.00
Standard Area 1 = 216771			Recovery =	92.38%		
102) IS3_Phenanthrene-d10	9.012	188	200247	4.000	ug/ml	0.00
Standard Area 2 = 198240			Recovery =	101.01%		
106) IS1_Chrysene-d12	11.629	240	246219	4.000	ug/ml	# 0.00
Standard Area 1 = 275522			Recovery =	89.36%		
115) IS1_Perylene-d12	13.083	264	309385	4.000	ug/ml	0.00
Standard Area 1 = 328421			Recovery =	94.20%		
System Monitoring Compounds						
4) 2-Fluorophenol	3.383	112	8742	0.933	ug/ml	0.00
Spiked Amount 2.000			Recovery =	46.65%		
7) Phenol-d6	4.334	99	7386	0.639	ug/ml	0.00
Spiked Amount 2.000			Recovery =	31.95%		
19) Nitrobenzene-d5	5.192	82	7289	0.588	ug/ml	0.00
Spiked Amount 1.000			Recovery =	58.80%		
48) 2-Fluorobiphenyl	6.954	172	21383	0.683	ug/ml	0.00
Spiked Amount 1.000			Recovery =	68.30%		
81) 2,4,6-Tribromophenol	8.347	330	9668	1.876	ug/ml	0.00
Spiked Amount 2.000			Recovery =	93.80%		
98) 4-Terphenyl-d14	10.584	244	40763	0.762	ug/ml	0.00
Spiked Amount 1.000			Recovery =	76.20%		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250621RVT\
 Data File : 38382-04.D
 Acq On : 21 Jun 2025 12:34 pm
 Operator : Dakota:smz
 Sample : L2538382-04,32,,gmr
 Misc : WG2081719,WG2081606,ical22203
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 26 15:47:04 2025
 Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sat Jun 21 07:32:38 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250621RVT\ABN0621.D
 : 2 - I:\8270\Dakota\250621RVT\ADP0621.D
 : 3 - I:\8270\Dakota\250621RVT\AP90621.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
40) 4-Chloroaniline	0.000		0	N.D.		
42) p-Chloro-m-cresol	0.000		0	N.D.		
45) Hexachlorocyclopentadiene	0.000		0	N.D.		
46) 2,4,6-Trichlorophenol	0.000		0	N.D.		
47) 2,4,5-Trichlorophenol	0.000		0	N.D.		
50) 2-Nitroaniline	0.000		0	N.D.		
53) Dimethyl phthalate	0.000		0	N.D.	d	
55) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
62) Caprolactam	0.000		0	N.D.		
63) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
64) Biphenyl	0.000		0	N.D.		
66) 3-Nitroaniline	0.000		0	N.D.		
68) 2,4-Dinitrophenol	0.000		0	N.D.		
69) Dibenzofuran	0.000		0	N.D.		
70) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
71) 4-Nitrophenol	0.000		0	N.D.		
74) Diethyl phthalate	0.000		0	N.D.		
76) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
77) 4-Nitroaniline	0.000		0	N.D.		
78) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
79) NDPA/DPA	0.000		0	N.D.		
82) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250621RVT\
 Data File : 38382-04.D
 Acq On : 21 Jun 2025 12:34 pm
 Operator : Dakota:smz
 Sample : L2538382-04,32,,gmr
 Misc : WG2081719,WG2081606,ical22203
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 26 15:47:04 2025
 Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sat Jun 21 07:32:38 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250621RVT\ABN0621.D
 : 2 - I:\8270\Dakota\250621RVT\ADP0621.D
 : 3 - I:\8270\Dakota\250621RVT\AP90621.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
89)	Atrazine	0.000		0		N.D.	
93)	Carbazole	0.000		0		N.D.	
94)	Di-n-butylphthalate	0.000		0		N.D.	d
99)	Butyl benzyl phthalate	0.000		0		N.D.	
108)	3,3'-Dichlorobenzidine	0.000		0		N.D.	
110)	Bis(2-ethylhexyl)phtha...	0.000		0		N.D.	d
111)	Di-n-octylphthalate	0.000		0		N.D.	d

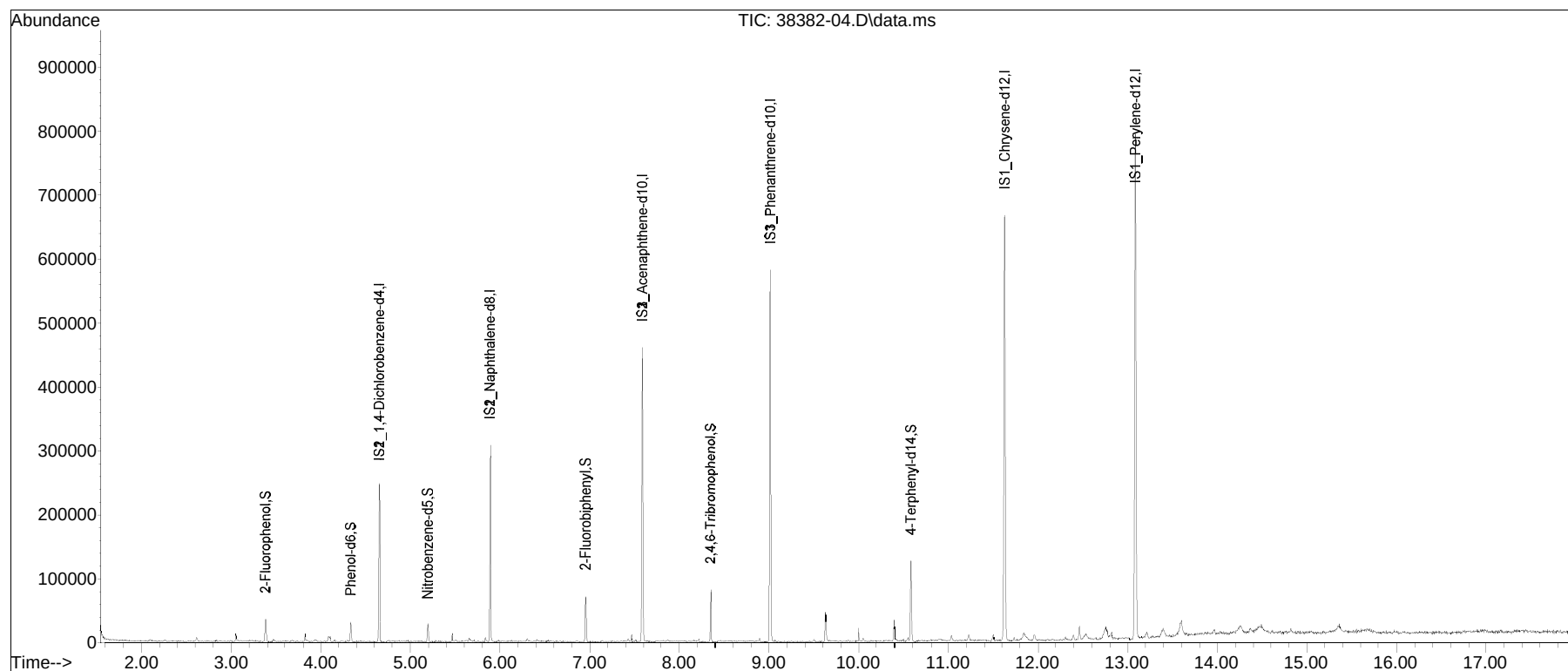
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250621RVT\
 Data File : 38382-04.D
 Acq On : 21 Jun 2025 12:34 pm
 Operator : Dakota:smz
 Sample : L2538382-04,32,,gmr
 Misc : WG2081719,WG2081606,ical22203
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 26 15:47:04 2025
 Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sat Jun 21 07:32:38 2025
 Response via : Initial Calibration

Sub List : 8270IC\8270b\Da\REV1\250621RVT\MAP90621.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\250621RVT\	QMethod	: FS250416RVT_Dakota.m
Data File	: 38382-04.D	Operator	: Dakota:smz
Date Inj'd	: 6/21/2025 12:34 pm	Instrument	: Dakota
Sample	: L2538382-04, 32,,gmr	Quant Date	: 6/21/2025 12:52 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250621RVT\
 Data File : 38382-05.D
 Acq On : 21 Jun 2025 12:56 pm
 Operator : Dakota:smz
 Sample : L2538382-05,32,,gmr
 Misc : WG2081719,WG2081606,ical22203
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 26 15:47:28 2025
 Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sat Jun 21 07:32:38 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250621RVT\ABN0621.D
 : 2 - I:\8270\Dakota\250621RVT\ADP0621.D
 : 3 - I:\8270\Dakota\250621RVT\AP90621.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.654	152	31687	4.000	ug/ml	0.00
Standard Area 1 = 34284			Recovery =	92.43%		
27) IS2_1,4-Dichlorobenzen...	4.654	152	31687	4.000	ug/ml	0.00
Standard Area 3 = 33532			Recovery =	94.50%		
37) IS1_Naphthalene-d8	5.885	136	106515	4.000	ug/ml	# 0.00
Standard Area 1 = 122540			Recovery =	86.92%		
57) IS2_Naphthalene-d8	5.885	136	106515	4.000	ug/ml	# 0.00
Standard Area 3 = 118622			Recovery =	89.79%		
65) IS1_Acenaphthene-d10	7.585	164	84227	4.000	ug/ml	0.00
Standard Area 1 = 91691			Recovery =	91.86%		
85) IS2_Acenaphthene-d10	7.585	164	84227	4.000	ug/ml	0.00
Standard Area 3 = 90024			Recovery =	93.56%		
88) IS3_Acenaphthene-d10	7.585	164	84227	4.000	ug/ml	0.00
Standard Area 2 = 78881			Recovery =	106.78%		
90) IS1_Phenanthrene-d10	9.012	188	203658	4.000	ug/ml	0.00
Standard Area 1 = 216771			Recovery =	93.95%		
102) IS3_Phenanthrene-d10	9.012	188	203658	4.000	ug/ml	0.00
Standard Area 2 = 198240			Recovery =	102.73%		
106) IS1_Chrysene-d12	11.629	240	262482	4.000	ug/ml	# 0.00
Standard Area 1 = 275522			Recovery =	95.27%		
115) IS1_Perylene-d12	13.083	264	304079	4.000	ug/ml	0.00
Standard Area 1 = 328421			Recovery =	92.59%		
System Monitoring Compounds						
4) 2-Fluorophenol	3.383	112	7531	0.926	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	46.30%		
7) Phenol-d6	4.334	99	7458	0.743	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	37.15%		
19) Nitrobenzene-d5	5.192	82	7667	0.713	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	71.30%		
48) 2-Fluorobiphenyl	6.954	172	20786	0.749	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	74.90%		
81) 2,4,6-Tribromophenol	8.347	330	9812	1.979	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	98.95%		
98) 4-Terphenyl-d14	10.581	244	47172	0.867	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	86.70%		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250621RVT\
 Data File : 38382-05.D
 Acq On : 21 Jun 2025 12:56 pm
 Operator : Dakota:smz
 Sample : L2538382-05,32,,gmr
 Misc : WG2081719,WG2081606,ical22203
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 26 15:47:28 2025
 Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sat Jun 21 07:32:38 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250621RVT\ABN0621.D
 : 2 - I:\8270\Dakota\250621RVT\ADP0621.D
 : 3 - I:\8270\Dakota\250621RVT\AP90621.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
40) 4-Chloroaniline	0.000		0	N.D.		
42) p-Chloro-m-cresol	0.000		0	N.D.		
45) Hexachlorocyclopentadiene	0.000		0	N.D.		
46) 2,4,6-Trichlorophenol	0.000		0	N.D.		
47) 2,4,5-Trichlorophenol	0.000		0	N.D.		
50) 2-Nitroaniline	0.000		0	N.D.		
53) Dimethyl phthalate	0.000		0	N.D.	d	
55) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
62) Caprolactam	0.000		0	N.D.		
63) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
64) Biphenyl	0.000		0	N.D.		
66) 3-Nitroaniline	0.000		0	N.D.		
68) 2,4-Dinitrophenol	0.000		0	N.D.		
69) Dibenzofuran	0.000		0	N.D.		
70) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
71) 4-Nitrophenol	0.000		0	N.D.		
74) Diethyl phthalate	0.000		0	N.D.		
76) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
77) 4-Nitroaniline	0.000		0	N.D.		
78) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
79) NDPA/DPA	0.000		0	N.D.		
82) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250621RVT\
 Data File : 38382-05.D
 Acq On : 21 Jun 2025 12:56 pm
 Operator : Dakota:smz
 Sample : L2538382-05,32,,gmr
 Misc : WG2081719,WG2081606,ical22203
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 26 15:47:28 2025
 Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sat Jun 21 07:32:38 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250621RVT\ABN0621.D
 : 2 - I:\8270\Dakota\250621RVT\ADP0621.D
 : 3 - I:\8270\Dakota\250621RVT\AP90621.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
89)	Atrazine	0.000		0		N.D.	
93)	Carbazole	0.000		0		N.D.	
94)	Di-n-butylphthalate	0.000		0		N.D.	d
99)	Butyl benzyl phthalate	0.000		0		N.D.	
108)	3,3'-Dichlorobenzidine	0.000		0		N.D.	
110)	Bis(2-ethylhexyl)phtha...	0.000		0		N.D.	d
111)	Di-n-octylphthalate	0.000		0		N.D.	d

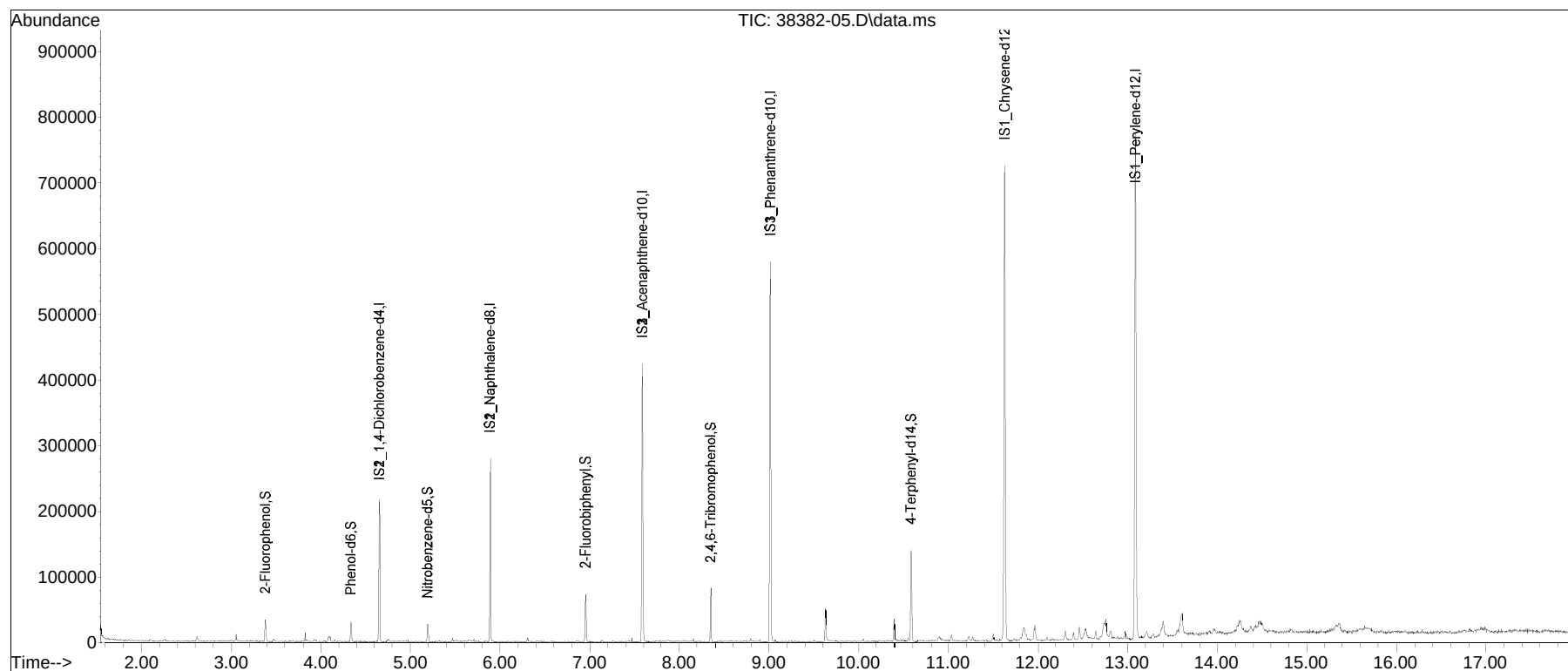
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250621RVT\
 Data File : 38382-05.D
 Acq On : 21 Jun 2025 12:56 pm
 Operator : Dakota:smz
 Sample : L2538382-05,32,,gmr
 Misc : WG2081719,WG2081606,ical22203
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 26 15:47:28 2025
 Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sat Jun 21 07:32:38 2025
 Response via : Initial Calibration

Sub List : 8270IC\8270bDaR5V1\250621RVTMAP90621.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\250621RVT\	QMethod	: FS250416RVT_Dakota.m
Data File	: 38382-05.D	Operator	: Dakota:smz
Date Inj'd	: 6/21/2025 12:56 pm	Instrument	: Dakota
Sample	: L2538382-05,32,,gmr	Quant Date	: 6/21/2025 1:15 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250621RVT\
 Data File : 38382-06.D
 Acq On : 21 Jun 2025 1:18 pm
 Operator : Dakota:smz
 Sample : L2538382-06,32,,gmr
 Misc : WG2081719,WG2081606,ical22203
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 26 15:47:48 2025
 Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sat Jun 21 07:32:38 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250621RVT\ABN0621.D
 : 2 - I:\8270\Dakota\250621RVT\ADP0621.D
 : 3 - I:\8270\Dakota\250621RVT\AP90621.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.654	152	33611	4.000	ug/ml	0.00
Standard Area 1 = 34284			Recovery =	98.04%		
27) IS2_1,4-Dichlorobenzen...	4.654	152	33611	4.000	ug/ml	0.00
Standard Area 3 = 33532			Recovery =	100.24%		
37) IS1_Naphthalene-d8	5.885	136	112849	4.000	ug/ml	# 0.00
Standard Area 1 = 122540			Recovery =	92.09%		
57) IS2_Naphthalene-d8	5.885	136	112849	4.000	ug/ml	# 0.00
Standard Area 3 = 118622			Recovery =	95.13%		
65) IS1_Acenaphthene-d10	7.585	164	87230	4.000	ug/ml	0.00
Standard Area 1 = 91691			Recovery =	95.13%		
85) IS2_Acenaphthene-d10	7.585	164	87230	4.000	ug/ml	0.00
Standard Area 3 = 90024			Recovery =	96.90%		
88) IS3_Acenaphthene-d10	7.585	164	87230	4.000	ug/ml	0.00
Standard Area 2 = 78881			Recovery =	110.58%		
90) IS1_Phenanthrene-d10	9.012	188	217938	4.000	ug/ml	0.00
Standard Area 1 = 216771			Recovery =	100.54%		
102) IS3_Phenanthrene-d10	9.012	188	217938	4.000	ug/ml	0.00
Standard Area 2 = 198240			Recovery =	109.94%		
106) IS1_Chrysene-d12	11.626	240	274464	4.000	ug/ml	# 0.00
Standard Area 1 = 275522			Recovery =	99.62%		
115) IS1_Perylene-d12	13.080	264	320763	4.000	ug/ml	0.00
Standard Area 1 = 328421			Recovery =	97.67%		
System Monitoring Compounds						
4) 2-Fluorophenol	3.386	112	8177	0.948	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	47.40%		
7) Phenol-d6	4.334	99	8367	0.786	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	39.30%		
19) Nitrobenzene-d5	5.195	82	8111	0.711	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	71.10%		
48) 2-Fluorobiphenyl	6.951	172	21287	0.724	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	72.40%		
81) 2,4,6-Tribromophenol	8.344	330	10078	1.962	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	98.10%		
98) 4-Terphenyl-d14	10.581	244	49410	0.848	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	84.80%		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250621RVT\
 Data File : 38382-06.D
 Acq On : 21 Jun 2025 1:18 pm
 Operator : Dakota:smz
 Sample : L2538382-06,32,,gmr
 Misc : WG2081719,WG2081606,ical22203
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 26 15:47:48 2025
 Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sat Jun 21 07:32:38 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250621RVT\ABN0621.D
 : 2 - I:\8270\Dakota\250621RVT\ADP0621.D
 : 3 - I:\8270\Dakota\250621RVT\AP90621.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
40) 4-Chloroaniline	0.000		0	N.D.		
42) p-Chloro-m-cresol	0.000		0	N.D.		
45) Hexachlorocyclopentadiene	0.000		0	N.D.		
46) 2,4,6-Trichlorophenol	0.000		0	N.D.		
47) 2,4,5-Trichlorophenol	0.000		0	N.D.		
50) 2-Nitroaniline	0.000		0	N.D.		
53) Dimethyl phthalate	0.000		0	N.D.	d	
55) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
62) Caprolactam	0.000		0	N.D.		
63) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
64) Biphenyl	0.000		0	N.D.		
66) 3-Nitroaniline	0.000		0	N.D.		
68) 2,4-Dinitrophenol	0.000		0	N.D.		
69) Dibenzofuran	0.000		0	N.D.		
70) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
71) 4-Nitrophenol	0.000		0	N.D.		
74) Diethyl phthalate	0.000		0	N.D.		
76) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
77) 4-Nitroaniline	0.000		0	N.D.		
78) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
79) NDPA/DPA	0.000		0	N.D.		
82) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250621RVT\
 Data File : 38382-06.D
 Acq On : 21 Jun 2025 1:18 pm
 Operator : Dakota:smz
 Sample : L2538382-06,32,,gmr
 Misc : WG2081719,WG2081606,ical22203
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 26 15:47:48 2025
 Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sat Jun 21 07:32:38 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250621RVT\ABN0621.D
 : 2 - I:\8270\Dakota\250621RVT\ADP0621.D
 : 3 - I:\8270\Dakota\250621RVT\AP90621.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
89) Atrazine	0.000		0		N.D.	
93) Carbazole	0.000		0		N.D.	
94) Di-n-butylphthalate	0.000		0		N.D.	d
99) Butyl benzyl phthalate	0.000		0		N.D.	
108) 3,3'-Dichlorobenzidine	0.000		0		N.D.	
110) Bis(2-ethylhexyl)phtha...	0.000		0		N.D.	
111) Di-n-octylphthalate	0.000		0		N.D.	d

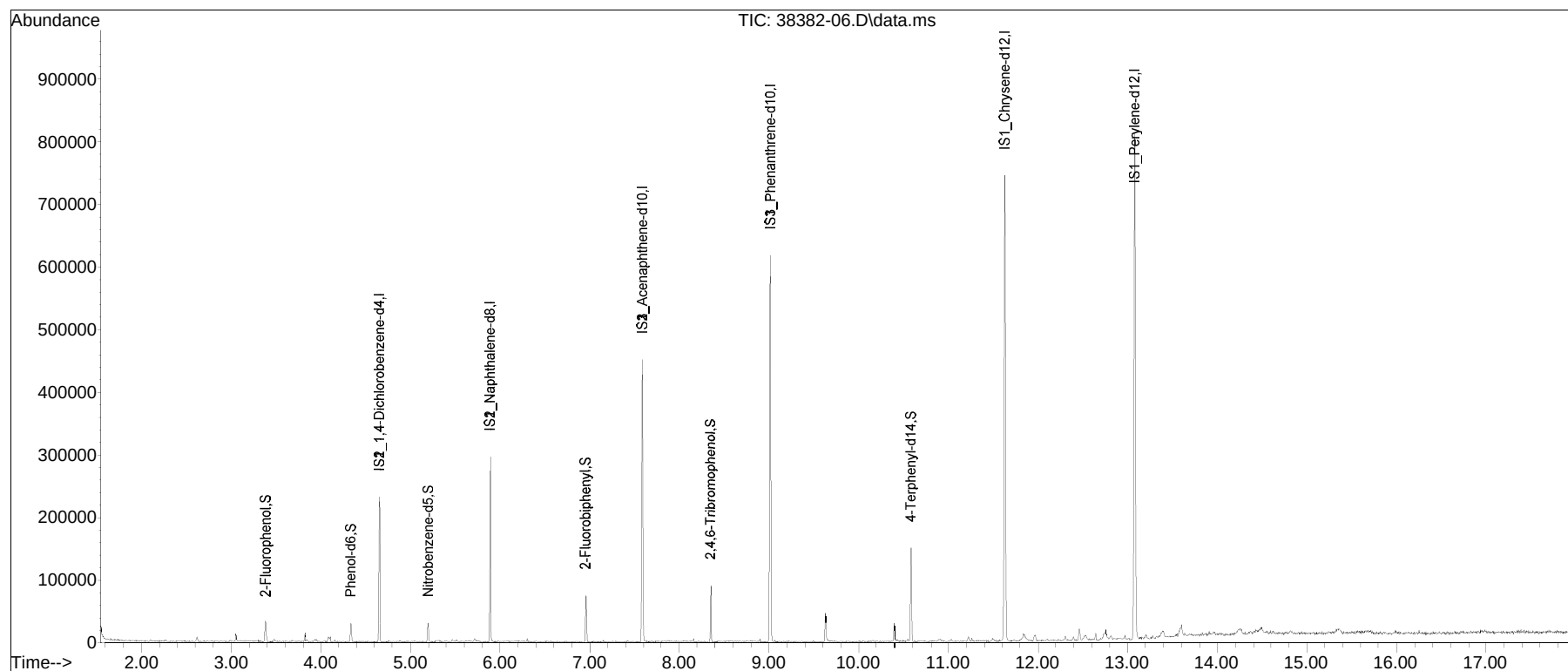
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250621RVT\
 Data File : 38382-06.D
 Acq On : 21 Jun 2025 1:18 pm
 Operator : Dakota:smz
 Sample : L2538382-06,32,,gmr
 Misc : WG2081719,WG2081606,ical22203
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 26 15:47:48 2025
 Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sat Jun 21 07:32:38 2025
 Response via : Initial Calibration

Sub List : 8270IC\8270bDaR5V1\250621RVT\MAP90621.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\250621RVT\	QMethod	: FS250416RVT_Dakota.m
Data File	: 38382-06.D	Operator	: Dakota:smz
Date Inj'd	: 6/21/2025 1:18 pm	Instrument	: Dakota
Sample	: L2538382-06,32,,gmr	Quant Date	: 6/21/2025 1:37 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250621RVT\
 Data File : 38382-07.D
 Acq On : 21 Jun 2025 2:26 pm
 Operator : Dakota:smz
 Sample : L2538382-07,32,,gmr
 Misc : WG2081719,WG2081606,ical22203
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 26 15:48:15 2025
 Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sat Jun 21 07:32:38 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250621RVT\ABN0621.D
 : 2 - I:\8270\Dakota\250621RVT\ADP0621.D
 : 3 - I:\8270\Dakota\250621RVT\AP90621.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.654	152	33339	4.000	ug/ml	0.00
Standard Area 1 = 34284			Recovery =	97.24%		
27) IS2_1,4-Dichlorobenzen...	4.654	152	33339	4.000	ug/ml	0.00
Standard Area 3 = 33532			Recovery =	99.42%		
37) IS1_Naphthalene-d8	5.885	136	117933	4.000	ug/ml	# 0.00
Standard Area 1 = 122540			Recovery =	96.24%		
57) IS2_Naphthalene-d8	5.885	136	117933	4.000	ug/ml	# 0.00
Standard Area 3 = 118622			Recovery =	99.42%		
65) IS1_Acenaphthene-d10	7.585	164	94546	4.000	ug/ml	0.00
Standard Area 1 = 91691			Recovery =	103.11%		
85) IS2_Acenaphthene-d10	7.585	164	94546	4.000	ug/ml	0.00
Standard Area 3 = 90024			Recovery =	105.02%		
88) IS3_Acenaphthene-d10	7.585	164	94546	4.000	ug/ml	0.00
Standard Area 2 = 78881			Recovery =	119.86%		
90) IS1_Phenanthrene-d10	9.012	188	222315	4.000	ug/ml	0.00
Standard Area 1 = 216771			Recovery =	102.56%		
102) IS3_Phenanthrene-d10	9.012	188	222315	4.000	ug/ml	0.00
Standard Area 2 = 198240			Recovery =	112.14%		
106) IS1_Chrysene-d12	11.629	240	284590	4.000	ug/ml	# 0.00
Standard Area 1 = 275522			Recovery =	103.29%		
115) IS1_Perylene-d12	13.083	264	334257	4.000	ug/ml	0.00
Standard Area 1 = 328421			Recovery =	101.78%		
System Monitoring Compounds						
4) 2-Fluorophenol	3.380	112	8332	0.973	ug/ml	0.00
Spiked Amount 2.000			Recovery =	48.65%		
7) Phenol-d6	4.337	99	7527	0.713	ug/ml	0.00
Spiked Amount 2.000			Recovery =	35.65%		
19) Nitrobenzene-d5	5.195	82	7958	0.703	ug/ml	0.00
Spiked Amount 1.000			Recovery =	70.30%		
48) 2-Fluorobiphenyl	6.954	172	20152	0.656	ug/ml	0.00
Spiked Amount 1.000			Recovery =	65.60%		
81) 2,4,6-Tribromophenol	8.347	330	9964	1.790	ug/ml	0.00
Spiked Amount 2.000			Recovery =	89.50%		
98) 4-Terphenyl-d14	10.581	244	48761	0.821	ug/ml	0.00
Spiked Amount 1.000			Recovery =	82.10%		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250621RVT\
 Data File : 38382-07.D
 Acq On : 21 Jun 2025 2:26 pm
 Operator : Dakota:smz
 Sample : L2538382-07,32,,gmr
 Misc : WG2081719,WG2081606,ical22203
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 26 15:48:15 2025
 Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sat Jun 21 07:32:38 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250621RVT\ABN0621.D
 : 2 - I:\8270\Dakota\250621RVT\ADP0621.D
 : 3 - I:\8270\Dakota\250621RVT\AP90621.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
40) 4-Chloroaniline	0.000		0	N.D.		
42) p-Chloro-m-cresol	0.000		0	N.D.		
45) Hexachlorocyclopentadiene	0.000		0	N.D.		
46) 2,4,6-Trichlorophenol	0.000		0	N.D.		
47) 2,4,5-Trichlorophenol	0.000		0	N.D.		
50) 2-Nitroaniline	0.000		0	N.D.		
53) Dimethyl phthalate	0.000		0	N.D.	d	
55) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
62) Caprolactam	0.000		0	N.D.		
63) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
64) Biphenyl	0.000		0	N.D.		
66) 3-Nitroaniline	0.000		0	N.D.		
68) 2,4-Dinitrophenol	0.000		0	N.D.		
69) Dibenzofuran	0.000		0	N.D.		
70) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
71) 4-Nitrophenol	0.000		0	N.D.		
74) Diethyl phthalate	0.000		0	N.D.		
76) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
77) 4-Nitroaniline	0.000		0	N.D.		
78) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
79) NDPA/DPA	0.000		0	N.D.		
82) 4-Bromophenyl phenyl e...	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250621RVT\
 Data File : 38382-07.D
 Acq On : 21 Jun 2025 2:26 pm
 Operator : Dakota:smz
 Sample : L2538382-07,32,,gmr
 Misc : WG2081719,WG2081606,ical22203
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 26 15:48:15 2025
 Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sat Jun 21 07:32:38 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250621RVT\ABN0621.D
 : 2 - I:\8270\Dakota\250621RVT\ADP0621.D
 : 3 - I:\8270\Dakota\250621RVT\AP90621.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
89)	Atrazine	0.000		0		N.D.	
93)	Carbazole	0.000		0		N.D.	
94)	Di-n-butylphthalate	0.000		0		N.D.	d
99)	Butyl benzyl phthalate	0.000		0		N.D.	
108)	3,3'-Dichlorobenzidine	0.000		0		N.D.	
110)	Bis(2-ethylhexyl)phtha...	0.000		0		N.D.	d
111)	Di-n-octylphthalate	0.000		0		N.D.	d

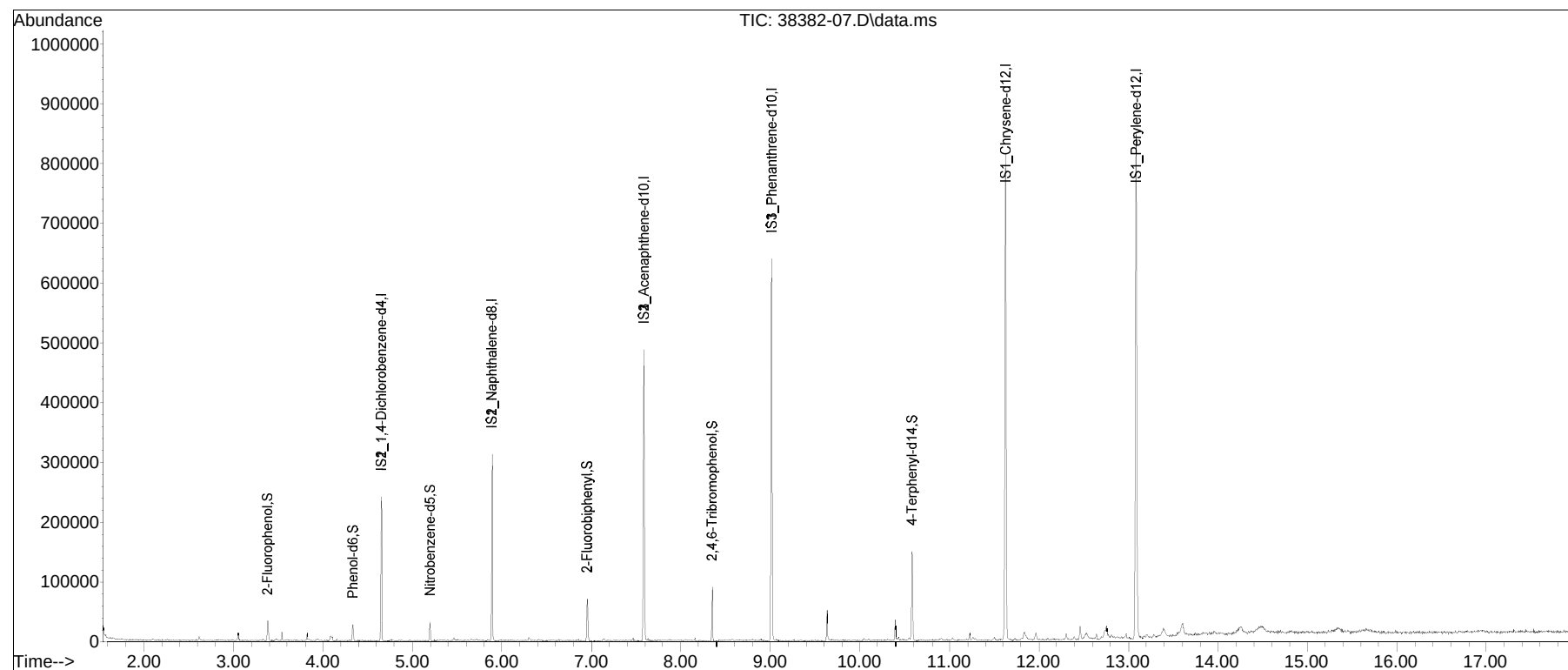
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250621RVT\
 Data File : 38382-07.D
 Acq On : 21 Jun 2025 2:26 pm
 Operator : Dakota:smz
 Sample : L2538382-07,32,,gmr
 Misc : WG2081719,WG2081606,ical22203
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 26 15:48:15 2025
 Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sat Jun 21 07:32:38 2025
 Response via : Initial Calibration

Sub List : 8270IC\8270bDaR5V1\250621RVTMAP90621.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\250621RVT\	QMethod	: FS250416RVT_Dakota.m
Data File	: 38382-07.D	Operator	: Dakota:smz
Date Inj'd	: 6/21/2025 2:26 pm	Instrument	: Dakota
Sample	: L2538382-07,32,,gmr	Quant Date	: 6/21/2025 2:44 pm

There are no manual integrations or false positives in this file.

Semivolatiles Standards Data

Initial Calibration

Initial Calibration Summary

Form 6

Semivolatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : DAKOTA
 Calibration dates : 04/16/25 17:27 04/17/25 04:21

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Ical Ref : ICAL22203

Calibration Files

L1 =AP9L1.D L2 =AP9L2.D L3 =ABNL3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
 L8 =AP9L8.D L9 =AP9L9.D

Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
1) I IS1_1,4-Dichlorobenzene-d4	-----ISTD-----										
2) t n-Nitrosodimet	0.623	0.641	0.748	0.802	0.648	0.670	0.700	0.680	0.657	0.686	8.34
3) t Pyridine	1.198	1.345	1.253	1.154	1.149	1.145	1.196	1.167	1.201	1.201	5.69
4) S 2-Fluorophenol	1.156	1.128	1.093	1.019	0.929	1.017	0.984	0.974	0.944	1.027	7.87
5) T Aniline	1.416	1.465	1.844	1.798	1.694	1.780	1.750	1.705	1.676	1.681	8.74
6) t 2-Chlorophenol	1.329	1.065	1.224	1.092	1.073	1.118	1.126	1.113	1.093	1.137	7.54
7) S Phenol-d6	1.299	1.151	1.195	1.336	1.250	1.293	1.296	1.304	1.275	1.267	4.66
8) T Phenol	1.435	1.662	1.662	1.592	1.440	1.548	1.539	1.509	1.496	1.542	5.44
9) T Bis(2-chloroet	0.930	0.996	1.161	1.024	0.972	0.965	0.980	0.988	0.946	0.996	6.80
10) T 1,3-Dichlorobe	1.714	1.628	1.685	1.478	1.393	1.427	1.470	1.405	1.379	1.509	8.69
11) T 1,4-Dichlorobe	1.953	1.616	1.645	1.559	1.432	1.463	1.467	1.455	1.407	1.555	10.98
12) T 1,2-Dichlorobe	1.679	1.408	1.476	1.535	1.363	1.386	1.395	1.409	1.355	1.445	7.23
13) t Benzyl alcohol	1.159	0.998	0.890	0.983	0.957	0.975	1.004	1.054	1.022	1.005	7.34
14) T Bis(2-chlorois	2.461	2.109	2.210	2.168	2.023	2.073	2.076	2.095	2.046	2.140	6.24
15) T 2-Methylphenol	0.835	1.107	1.090	1.016	0.980	1.015	1.008	1.044	1.028	1.014	7.72
16) T Hexachloroethane	0.593	0.457	0.591	0.546	0.500	0.531	0.541	0.530	0.517	0.534	7.95
17) T n-Nitrosodi-n-	0.735	0.854	0.897	0.969	0.900	0.908	0.940	0.997	0.966	0.907	8.65
18) T 3-Methylphenol	1.021	1.085	1.060	1.122	1.055	1.096	1.103	1.131	1.101	1.086	3.21
19) S Nitrobenzene-d5	1.425	1.286	1.320	1.349	1.313	1.368	1.372	1.402	1.385	1.358	3.30
20) T Nitrobenzene	1.268	1.344	1.386	1.338	1.292	1.319	1.319	1.351	1.345	1.329	2.60
21) T Isophorone	2.633	2.286	2.448	2.415	2.312	2.386	2.475	2.525	2.492	2.441	4.39
22) T 2-Nitrophenol	0.421	0.579	0.543	0.570	0.585	0.618	0.651	0.655	0.658	0.587	12.73
23) T 2,4-Dimethylph	1.065	1.139	1.121	1.158	1.178	1.159	1.227	1.240	1.235	1.169	4.98
24) T Bis(2-chloroet	1.418	1.515	1.532	1.409	1.385	1.394	1.440	1.435	1.416	1.438	3.59
25) T 2,4-Dichloroph	1.088	1.121	1.207	1.251	1.173	1.204	1.270	1.292	1.308	1.213	6.22
26) T 1,2,4-Trichlor	1.750	1.367	1.595	1.563	1.445	1.492	1.478	1.481	1.481	1.517	7.20
27) I IS2_1,4-Dichlorobenzene-d4	-----ISTD-----										
28) T Benzaldehyde	0.668	0.920	0.605	0.970	0.861	0.871	0.902	0.859	0.898	0.839	14.41
29) T Acetophenone	1.362	1.478	1.066	1.625	1.531	1.521	1.586	1.541	1.621	1.481	11.82
30) T m-Toluidine	1.238	1.395	1.488	1.571	1.590	1.660	1.490	1.490	1.490	1.490	10.30
31) T 2-Chloroaniline	1.065	1.217	0.956	1.395	1.424	1.344	1.459	1.424	1.491	1.308	14.40
32) I IS3_1,4-Dichlorobenzene-d4	-----ISTD-----										
33) T 1,4-Dioxane	0.333	0.463	0.531	0.474	0.449	0.414	0.404	0.394	0.413	0.431	13.11
34) t n-Nitrosodieth	0.244	0.429	0.430	0.421	0.409	0.431	0.444	0.431	0.457	0.411	15.58
35) T n-Decane	1.255	1.429	1.467	1.356	1.385	1.315	1.305	1.268	1.327	1.345	5.30
36) t n-Nitrosopyrro	0.372	0.627	0.473	0.542	0.503	0.501	0.523	0.553	0.573	0.518	13.75



Initial Calibration Summary

Form 6

Semivolatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : DAKOTA
 Calibration dates : 04/16/25 17:27 04/17/25 04:21

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Ical Ref : ICAL22203

Calibration Files

L1 =AP9L1.D L2 =AP9L2.D L3 =ABNL3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
 L8 =AP9L8.D L9 =AP9L9.D

Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
37) I IS1_Naphthalene-d8	-----ISTD-----										
38) T Naphthalene	1.194	1.122	1.099	0.996	0.972	0.955	0.989	0.949	0.948	1.025	8.79
39) T Benzoic Acid					0.130	0.172	0.227	0.246	0.259	*L	0.9993
40) T 4-Chloroaniline	0.090	0.160	0.146	0.160	0.141	0.134	0.143	0.143	0.142	0.140	14.64
41) T Hexachlorobuta	0.263	0.228	0.286	0.263	0.243	0.242	0.254	0.249	0.246	0.253	6.57
42) T p-Chloro-m-cresol	0.245	0.252	0.296	0.291	0.286	0.280	0.307	0.301	0.305	0.285	7.82
43) T 2-Methylnaphth	0.631	0.676	0.705	0.666	0.662	0.660	0.678	0.666	0.650	0.666	3.05
44) T 1-Methylnaphth	0.215	0.233	0.234	0.227	0.223	0.222	0.233	0.225	0.224	0.226	2.77
45) T Hexachlorocycl	0.345	0.357	0.335	0.327	0.332	0.328	0.345	0.351	0.350	0.341	3.23
46) T 2,4,6-Trichlor	0.274	0.274	0.288	0.298	0.288	0.293	0.315	0.313	0.314	0.295	5.42
47) T 2,4,5-Trichlor	0.351	0.300	0.331	0.311	0.322	0.319	0.335	0.342	0.338	0.328	4.88
48) S 2-Fluorobiphenyl	1.136	1.059	1.061	1.063	1.035	0.967	1.039	1.011	1.007	1.042	4.54
49) T 2-Chloronaphth	0.800	0.910	0.894	0.843	0.812	0.800	0.841	0.830	0.821	0.839	4.66
50) T 2-Nitroaniline	0.196	0.199	0.199	0.191	0.214	0.211	0.235	0.240	0.243	0.214	9.41
51) T 1,4-Dinitroben	0.076	0.089	0.094	0.111	0.116	0.111	0.131	0.133	0.132	0.110	18.62
52) T 1,3-Dinitroben	0.110	0.129	0.139	0.121	0.130	0.138	0.150	0.148	0.148	0.135	10.15
53) T Dimethyl phtha	1.035	1.030	1.031	0.992	1.002	0.974	1.046	1.009	0.985	1.012	2.48
54) T Acenaphthylene	1.296	1.305	1.300	1.329	1.332	1.312	1.394	1.346	1.332	1.327	2.26
55) T 2,6-Dinitrotol	0.180	0.185	0.195	0.197	0.199	0.210	0.219	0.215	0.221	0.202	7.20
56) T 1,2-Dinitroben		0.077	0.071	0.089	0.080	0.081	0.094	0.091	0.090	0.084	9.63
57) I IS2_Naphthalene-d8	-----ISTD-----										
58) T a-Terpineol	0.254	0.260	0.206	0.316	0.291	0.310	0.325	0.325	0.326	0.290	14.43
59) T 3-Chloroaniline	0.113	0.179	0.099	0.174	0.147	0.152	0.154	0.160	0.158	0.149	17.80
60) T 2,6-Dichlorophenol	0.282	0.304	0.234	0.358	0.345	0.349	0.359	0.362	0.367	0.329	13.93
61) T 1-chloro-2-nitrobenzene	0.111	0.147	0.109	0.152	0.141	0.146	0.148	0.148	0.151	0.139	12.22
62) T Caprolactam				0.144	0.150	0.162	0.181	0.188	0.190	0.169	11.74
63) T 1,2,4,5-Tetrachloroben...	0.459	0.424	0.341	0.509	0.450	0.436	0.463	0.456	0.457	0.444	10.14
64) T Biphenyl	0.900	0.917	0.773	1.036	0.980	0.975	1.007	0.984	0.981	0.950	8.26
65) I IS1_Acenaphthene-d10	-----ISTD-----										
66) T 3-Nitroaniline	0.166	0.280	0.272	0.249	0.271	0.291	0.308	0.306	0.307	0.272	16.42
67) T Acenaphthene	1.044	1.113	1.071	1.090	1.028	1.002	1.022	1.025	1.023	1.046	3.51
68) T 2,4-Dinitrophenol		0.042	0.105	0.126	0.169	0.178	0.215	0.223		*Q	0.9978
69) T Dibenzofuran	2.096	2.025	1.962	1.885	1.831	1.757	1.799	1.752	1.758	1.874	6.79
70) T 2,4-Dinitrotol	0.306	0.340	0.377	0.401	0.427	0.414	0.451	0.442	0.446	0.400	12.61
71) T 4-Nitrophenol	0.210	0.195	0.237	0.245	0.252	0.252	0.279	0.275	0.278	0.247	11.95
72) T 2,3,5,6-Tetrac	0.406	0.350	0.393	0.362	0.410	0.408	0.438	0.433	0.440	0.404	7.88



Initial Calibration Summary

Form 6

Semivolatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : DAKOTA
 Calibration dates : 04/16/25 17:27 04/17/25 04:21

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Ical Ref : ICAL22203

Calibration Files

L1 =AP9L1.D L2 =AP9L2.D L3 =ABNL3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
 L8 =AP9L8.D L9 =AP9L9.D

	Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
73) T	2,3,4,6-Tetrachlorophenol	0.387	0.366	0.377	0.423	0.374	0.397	0.419	0.413	0.419	0.397	5.54
74) T	Diethyl phthalate	1.462	1.416	1.428	1.387	1.393	1.336	1.443	1.378	1.383	1.403	2.72
75) T	Fluorene	1.581	1.463	1.471	1.468	1.463	1.386	1.455	1.412	1.441	1.460	3.68
76) T	4-Chlorophenyl	0.919	0.754	0.836	0.744	0.747	0.675	0.718	0.704	0.710	0.756	10.01
77) T	4-Nitroaniline	0.208	0.225	0.272	0.285	0.311	0.311	0.331	0.317	0.314	0.286	15.16
78) T	4,6-Dinitro-o-			0.192	0.191	0.220	0.259	0.282	0.286	0.304	0.248	18.86
79) T	NDPA/DPA	1.466	1.151	1.277	1.278	1.297	1.221	1.296	1.246	1.249	1.275	6.64
80) T	Azobenzene	1.348	1.265	1.317	1.295	1.309	1.245	1.314	1.298	1.297	1.299	2.28
81) S	2,4,6-Tribromo	0.182	0.207	0.250	0.215	0.239	0.241	0.255	0.257	0.272	0.235	12.12
82) T	4-Bromophenyl	0.537	0.435	0.541	0.485	0.462	0.452	0.467	0.453	0.468	0.478	7.81
83) T	Hexachlorobenzene	0.655	0.597	0.617	0.544	0.528	0.503	0.525	0.511	0.538	0.558	9.45
84) T	Pentachlorophenol			0.273	0.259	0.315	0.323	0.356	0.387	0.401	0.331	16.29
85) I	IS2_Acenaphthene-d10	-----ISTD-----										
86) T	Dichloran				0.185	0.178	0.190	0.205	0.234	0.239	0.205	12.61
87) T	Pentachloronitrobenzene		0.146	0.130	0.187	0.191	0.197	0.203	0.213	0.211	0.184	16.52
88) I	IS3_Acenaphthene-d10	-----ISTD-----										
89) T	Atrazine	0.351	0.407	0.426	0.407	0.422	0.398	0.451	0.468	0.481	0.423	9.32
90) I	IS1_Phenanthrene-d10	-----ISTD-----										
91) T	Phenanthrene	1.222	1.158	1.236	1.218	1.122	1.092	1.118	1.084	1.101	1.150	5.24
92) T	Anthracene	1.120	1.066	1.156	1.163	1.132	1.095	1.152	1.117	1.137	1.127	2.76
93) T	Carbazole	1.091	1.055	1.033	1.094	1.055	1.045	1.085	1.035	1.049	1.060	2.23
94) T	Di-n-butylphth	1.114	1.034	1.040	1.035	1.077	1.088	1.179	1.171	1.166	1.100	5.44
95) T	Fluoranthene	1.372	1.340	1.405	1.361	1.338	1.331	1.385	1.331	1.334	1.355	2.00
96) T	Benzidine			0.609	0.715	0.799	0.824	0.936	0.908	0.931	0.817	14.93
97) T	Pyrene	1.618	1.426	1.468	1.483	1.458	1.433	1.485	1.411	1.409	1.466	4.36
98) S	4-Terphenyl-d14	1.139	1.125	1.071	1.039	1.035	1.030	1.087	1.051	1.045	1.069	3.75
99) T	Butyl benzyl p	0.372	0.432	0.400	0.437	0.482	0.495	0.555	0.562	0.563	0.478	15.10
100) I	IS2_Phenanthrene-d10	-----ISTD-----										
101) T	Diphenamid	0.379	0.406	0.348	0.461	0.490	0.501	0.516	0.545	0.547	0.466	15.60
102) I	IS3_Phenanthrene-d10	-----ISTD-----										
103) T	n-Octadecane	0.426	0.328	0.405	0.395	0.378	0.387	0.410	0.406	0.398	0.392	7.06
104) T	Parathion				0.075	0.074	0.082	0.098	0.119	0.127	*Q	0.9977
105) T	3,3'-Dimethylb				0.452	0.661	0.715	0.824	0.964	1.014	*L	0.9962
106) I	IS1_Chrysene-d12	-----ISTD-----										
107) T	Benzo(a)anthra	1.403	1.324	1.338	1.293	1.310	1.287	1.326	1.292	1.248	1.313	3.27
108) T	3,3'-Dichlorob	0.401	0.426	0.436	0.452	0.472	0.472	0.505	0.511	0.504	0.464	8.36



Initial Calibration Summary

Form 6

Semivolatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : DAKOTA
 Calibration dates : 04/16/25 17:27 04/17/25 04:21

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Ical Ref : ICAL22203

Calibration Files

L1 =AP9L1.D L2 =AP9L2.D L3 =ABNL3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
 L8 =AP9L8.D L9 =AP9L9.D

Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
109) T Chrysene	1.490	1.463	1.355	1.312	1.238	1.198	1.220	1.200	1.160	1.293	9.29
110) T Bis(2-ethylhex	0.547	0.578	0.582	0.586	0.681	0.700	0.760	0.767	0.750	0.661	13.39
111) T Di-n-octylphth	0.818	0.840	0.880	0.947	1.114	1.157	1.299	1.333	1.280	1.074	19.27
112) T Benzo(b)fluora	1.373	1.282	1.406	1.339	1.335	1.338	1.342	1.295	1.281	1.332	3.11
113) T Benzo(k)fluora	1.335	1.441	1.330	1.426	1.354	1.343	1.320	1.370	1.276	1.355	3.81
114) T Benzo(a)pyrene	1.225	1.288	1.256	1.327	1.247	1.276	1.284	1.285	1.249	1.271	2.38
115) I IS1_Perylene-d12	-----ISTD-----										
116) T Indeno(1,2,3-c	1.205	1.085	1.213	1.247	1.239	1.254	1.271	1.307	1.362	1.242	6.15
117) T Dibenzo(a,h)an	1.070	1.235	1.241	1.221	1.206	1.163	1.199	1.205	1.235	1.197	4.45
118) T Benzo(ghi)pery	1.256	1.169	1.238	1.224	1.173	1.145	1.184	1.186	1.203	1.198	2.97



Response Factor Report Dakota

Method Path : I:\8270\Dakota\250416RVTICAL\
 Method File : FS250416RVT_Dakota.m
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Thu Apr 17 14:28:59 2025
 Response Via : Initial Calibration

Calibration Files

L1 =AP9L1.D L2 =AP9L2.D L3 =ABNL3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
 L8 =AP9L8.D L9 =AP9L9.D

Compound		L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD

1) I	IS1_1,4-Dichlorobenzene-d4	-----ISTD-----										
2) t	n-Nitrosodimet...	0.623	0.641	0.748	0.802	0.648	0.670	0.700	0.680	0.657	0.686	8.34
3) t	Pyridine	1.198	1.345	1.253	1.154	1.149	1.145	1.196	1.167	1.201		5.69
4) S	2-Fluorophenol	1.156	1.128	1.093	1.019	0.929	1.017	0.984	0.974	0.944	1.027	7.87
5) T	Aniline	1.416	1.465	1.844	1.798	1.694	1.780	1.750	1.705	1.676	1.681	8.74
6) t	2-Chlorophenol	1.329	1.065	1.224	1.092	1.073	1.118	1.126	1.113	1.093	1.137	7.54
7) S	Phenol-d6	1.299	1.151	1.195	1.336	1.250	1.293	1.296	1.304	1.275	1.267	4.66
8) T	Phenol	1.435	1.662	1.662	1.592	1.440	1.548	1.539	1.509	1.496	1.542	5.44
9) T	Bis(2-chloroet...	0.930	0.996	1.161	1.024	0.972	0.965	0.980	0.988	0.946	0.996	6.80
10) T	1,3-Dichlorobe...	1.714	1.628	1.685	1.478	1.393	1.427	1.470	1.405	1.379	1.509	8.69
11) T	1,4-Dichlorobe...	1.953	1.616	1.645	1.559	1.432	1.463	1.467	1.455	1.407	1.555	10.98
12) T	1,2-Dichlorobe...	1.679	1.408	1.476	1.535	1.363	1.386	1.395	1.409	1.355	1.445	7.23
13) t	Benzyl alcohol	1.159	0.998	0.890	0.983	0.957	0.975	1.004	1.054	1.022	1.005	7.34
14) T	Bis(2-chlorois...	2.461	2.109	2.210	2.168	2.023	2.073	2.076	2.095	2.046	2.140	6.24
15) T	2-Methylphenol	0.835	1.107	1.090	1.016	0.980	1.015	1.008	1.044	1.028	1.014	7.72
16) T	Hexachloroethane	0.593	0.457	0.591	0.546	0.500	0.531	0.541	0.530	0.517	0.534	7.95
17) T	n-Nitrosodi-n-...	0.735	0.854	0.897	0.969	0.900	0.908	0.940	0.997	0.966	0.907	8.65
18) T	3-Methylphenol...	1.021	1.085	1.060	1.122	1.055	1.096	1.103	1.131	1.101	1.086	3.21
19) S	Nitrobenzene-d5	1.425	1.286	1.320	1.349	1.313	1.368	1.372	1.402	1.385	1.358	3.30
20) T	Nitrobenzene	1.268	1.344	1.386	1.338	1.292	1.319	1.319	1.351	1.345	1.329	2.60
21) T	Isophorone	2.633	2.286	2.448	2.415	2.312	2.386	2.475	2.525	2.492	2.441	4.39
22) T	2-Nitrophenol	0.421	0.579	0.543	0.570	0.585	0.618	0.651	0.655	0.658	0.587	12.73
23) T	2,4-Dimethylph...	1.065	1.139	1.121	1.158	1.178	1.159	1.227	1.240	1.235	1.169	4.98
24) T	Bis(2-chloroet...	1.418	1.515	1.532	1.409	1.385	1.394	1.440	1.435	1.416	1.438	3.59
25) T	2,4-Dichloroph...	1.088	1.121	1.207	1.251	1.173	1.204	1.270	1.292	1.308	1.213	6.22
26) T	1,2,4-Trichlor...	1.750	1.367	1.595	1.563	1.445	1.492	1.478	1.481	1.481	1.517	7.20
27) I	IS2_1,4-Dichlorobenzene-d4	-----ISTD-----										
28) T	Benzaldehyde	0.668	0.920	0.605	0.970	0.861	0.871	0.902	0.859	0.898	0.839	14.41
29) T	Acetophenone	1.362	1.478	1.066	1.625	1.531	1.521	1.586	1.541	1.621	1.481	11.82

Response Factor Report Dakota

Method Path : I:\8270\Dakota\250416RVTICAL\
 Method File : FS250416RVT_Dakota.m
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Thu Apr 17 14:28:59 2025
 Response Via : Initial Calibration

Calibration Files

L1 =AP9L1.D L2 =AP9L2.D L3 =ABNL3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
 L8 =AP9L8.D L9 =AP9L9.D

	Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
30) T	m-Toluidine			1.238	1.395	1.488	1.571	1.590	1.660	1.490	10.30	
31) T	2-Chloroaniline	1.065	1.217	0.956	1.395	1.424	1.344	1.459	1.424	1.491	1.308	14.40
32) I	IS3_1,4-Dichlorobenzene-d4	-----ISTD-----										
33) T	1,4-Dioxane	0.333	0.463	0.531	0.474	0.449	0.414	0.404	0.394	0.413	0.431	13.11
34) t	n-Nitrosodieth...	0.244	0.429	0.430	0.421	0.409	0.431	0.444	0.431	0.457	0.411	15.58
35) T	n-Decane	1.255	1.429	1.467	1.356	1.385	1.315	1.305	1.268	1.327	1.345	5.30
36) t	n-Nitrosopyrro...	0.372	0.627	0.473	0.542	0.503	0.501	0.523	0.553	0.573	0.518	13.75
37) I	IS1_Naphthalene-d8	-----ISTD-----										
38) T	Naphthalene	1.194	1.122	1.099	0.996	0.972	0.955	0.989	0.949	0.948	1.025	8.79
39) T	Benzoic Acid					0.130	0.172	0.227	0.246	0.259	*L	0.9993
40) T	4-Chloroaniline	0.090	0.160	0.146	0.160	0.141	0.134	0.143	0.143	0.142	0.140	14.64
41) T	Hexachlorobuta...	0.263	0.228	0.286	0.263	0.243	0.242	0.254	0.249	0.246	0.253	6.57
42) T	p-Chloro-m-cresol	0.245	0.252	0.296	0.291	0.286	0.280	0.307	0.301	0.305	0.285	7.82
43) T	2-Methylnaphth...	0.631	0.676	0.705	0.666	0.662	0.660	0.678	0.666	0.650	0.666	3.05
44) T	1-Methylnaphth...	0.215	0.233	0.234	0.227	0.223	0.222	0.233	0.225	0.224	0.226	2.77
45) T	Hexachlorocycl...	0.345	0.357	0.335	0.327	0.332	0.328	0.345	0.351	0.350	0.341	3.23
46) T	2,4,6-Trichlor...	0.274	0.274	0.288	0.298	0.288	0.293	0.315	0.313	0.314	0.295	5.42
47) T	2,4,5-Trichlor...	0.351	0.300	0.331	0.311	0.322	0.319	0.335	0.342	0.338	0.328	4.88
48) S	2-Fluorobiphenyl	1.136	1.059	1.061	1.063	1.035	0.967	1.039	1.011	1.007	1.042	4.54
49) T	2-Chloronaphth...	0.800	0.910	0.894	0.843	0.812	0.800	0.841	0.830	0.821	0.839	4.66
50) T	2-Nitroaniline	0.196	0.199	0.199	0.191	0.214	0.211	0.235	0.240	0.243	0.214	9.41
51) T	1,4-Dinitroben...	0.076	0.089	0.094	0.111	0.116	0.111	0.131	0.133	0.132	0.110	18.62
52) T	1,3-Dinitroben...	0.110	0.129	0.139	0.121	0.130	0.138	0.150	0.148	0.148	0.135	10.15
53) T	Dimethyl phtha...	1.035	1.030	1.031	0.992	1.002	0.974	1.046	1.009	0.985	1.012	2.48
54) T	Acenaphthylene	1.296	1.305	1.300	1.329	1.332	1.312	1.394	1.346	1.332	1.327	2.26
55) T	2,6-Dinitrotol...	0.180	0.185	0.195	0.197	0.199	0.210	0.219	0.215	0.221	0.202	7.20
56) T	1,2-Dinitroben...		0.077	0.071	0.089	0.080	0.081	0.094	0.091	0.090	0.084	9.63
57) I	IS2_Naphthalene-d8	-----ISTD-----										

Response Factor Report Dakota

Method Path : I:\8270\Dakota\250416RVTICAL\
 Method File : FS250416RVT_Dakota.m
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Thu Apr 17 14:28:59 2025
 Response Via : Initial Calibration

Calibration Files

L1 =AP9L1.D L2 =AP9L2.D L3 =ABNL3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
 L8 =AP9L8.D L9 =AP9L9.D

Compound		L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD

58) T	a-Terpineol	0.254	0.260	0.206	0.316	0.291	0.310	0.325	0.325	0.326	0.290	14.43
59) T	3-Chloroaniline	0.113	0.179	0.099	0.174	0.147	0.152	0.154	0.160	0.158	0.149	17.80
60) T	2,6-Dichloroph...	0.282	0.304	0.234	0.358	0.345	0.349	0.359	0.362	0.367	0.329	13.93
61) T	1-chloro-2-nit...	0.111	0.147	0.109	0.152	0.141	0.146	0.148	0.148	0.151	0.139	12.22
62) T	Caprolactam				0.144	0.150	0.162	0.181	0.188	0.190	0.169	11.74
63) T	1,2,4,5-Tetrac...	0.459	0.424	0.341	0.509	0.450	0.436	0.463	0.456	0.457	0.444	10.14
64) T	Biphenyl	0.900	0.917	0.773	1.036	0.980	0.975	1.007	0.984	0.981	0.950	8.26
65) I	IS1_Acenaphthene-d10	-----ISTD-----										
66) T	3-Nitroaniline	0.166	0.280	0.272	0.249	0.271	0.291	0.308	0.306	0.307	0.272	16.42
67) T	Acenaphthene	1.044	1.113	1.071	1.090	1.028	1.002	1.022	1.025	1.023	1.046	3.51
68) T	2,4-Dinitrophenol		0.042	0.105	0.126	0.169	0.178	0.215	0.223		*Q	0.9978
69) T	Dibenzofuran	2.096	2.025	1.962	1.885	1.831	1.757	1.799	1.752	1.758	1.874	6.79
70) T	2,4-Dinitrotol...	0.306	0.340	0.377	0.401	0.427	0.414	0.451	0.442	0.446	0.400	12.61
71) T	4-Nitrophenol	0.210	0.195	0.237	0.245	0.252	0.252	0.279	0.275	0.278	0.247	11.95
72) T	2,3,5,6-Tetrac...	0.406	0.350	0.393	0.362	0.410	0.408	0.438	0.433	0.440	0.404	7.88
73) T	2,3,4,6-Tetrac...	0.387	0.366	0.377	0.423	0.374	0.397	0.419	0.413	0.419	0.397	5.54
74) T	Diethyl phthalate	1.462	1.416	1.428	1.387	1.393	1.336	1.443	1.378	1.383	1.403	2.72
75) T	Fluorene	1.581	1.463	1.471	1.468	1.463	1.386	1.455	1.412	1.441	1.460	3.68
76) T	4-Chlorophenyl...	0.919	0.754	0.836	0.744	0.747	0.675	0.718	0.704	0.710	0.756	10.01
77) T	4-Nitroaniline	0.208	0.225	0.272	0.285	0.311	0.311	0.331	0.317	0.314	0.286	15.16
78) T	4,6-Dinitro-o-...			0.192	0.191	0.220	0.259	0.282	0.286	0.304	0.248	18.86
79) T	NDPA/DPA	1.466	1.151	1.277	1.278	1.297	1.221	1.296	1.246	1.249	1.275	6.64
80) T	Azobenzene	1.348	1.265	1.317	1.295	1.309	1.245	1.314	1.298	1.297	1.299	2.28
81) S	2,4,6-Tribromo...	0.182	0.207	0.250	0.215	0.239	0.241	0.255	0.257	0.272	0.235	12.12
82) T	4-Bromophenyl ...	0.537	0.435	0.541	0.485	0.462	0.452	0.467	0.453	0.468	0.478	7.81
83) T	Hexachlorobenzene	0.655	0.597	0.617	0.544	0.528	0.503	0.525	0.511	0.538	0.558	9.45
84) T	Pentachlorophenol			0.273	0.259	0.315	0.323	0.356	0.387	0.401	0.331	16.29
85) I	IS2_Acenaphthene-d10	-----ISTD-----										
86) T	Dichloran				0.185	0.178	0.190	0.205	0.234	0.239	0.205	12.61

Response Factor Report Dakota

Method Path : I:\8270\Dakota\250416RVTICAL\
 Method File : FS250416RVT_Dakota.m
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Thu Apr 17 14:28:59 2025
 Response Via : Initial Calibration

Calibration Files

L1 =AP9L1.D L2 =AP9L2.D L3 =ABNL3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
 L8 =AP9L8.D L9 =AP9L9.D

Compound		L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD

87) T	Pentachloronit...	0.146	0.130	0.187	0.191	0.197	0.203	0.213	0.211	0.184	16.52	
88) I	IS3_Acenaphthene-d10	-----ISTD-----										
89) T	Atrazine	0.351	0.407	0.426	0.407	0.422	0.398	0.451	0.468	0.481	0.423	9.32
90) I	IS1_Phenanthrene-d10	-----ISTD-----										
91) T	Phenanthrene	1.222	1.158	1.236	1.218	1.122	1.092	1.118	1.084	1.101	1.150	5.24
92) T	Anthracene	1.120	1.066	1.156	1.163	1.132	1.095	1.152	1.117	1.137	1.127	2.76
93) T	Carbazole	1.091	1.055	1.033	1.094	1.055	1.045	1.085	1.035	1.049	1.060	2.23
94) T	Di-n-butylphth...	1.114	1.034	1.040	1.035	1.077	1.088	1.179	1.171	1.166	1.100	5.44
95) T	Fluoranthene	1.372	1.340	1.405	1.361	1.338	1.331	1.385	1.331	1.334	1.355	2.00
96) T	Benzidine			0.609	0.715	0.799	0.824	0.936	0.908	0.931	0.817	14.93
97) T	Pyrene	1.618	1.426	1.468	1.483	1.458	1.433	1.485	1.411	1.409	1.466	4.36
98) S	4-Terphenyl-d14	1.139	1.125	1.071	1.039	1.035	1.030	1.087	1.051	1.045	1.069	3.75
99) T	Butyl benzyl p...	0.372	0.432	0.400	0.437	0.482	0.495	0.555	0.562	0.563	0.478	15.10
100) I	IS2_Phenanthrene-d10	-----ISTD-----										
101) T	Diphenamid	0.379	0.406	0.348	0.461	0.490	0.501	0.516	0.545	0.547	0.466	15.60
102) I	IS3_Phenanthrene-d10	-----ISTD-----										
103) T	n-Octadecane	0.426	0.328	0.405	0.395	0.378	0.387	0.410	0.406	0.398	0.392	7.06
104) T	Parathion				0.075	0.074	0.082	0.098	0.119	0.127	*Q	0.9977
105) T	3,3'-Dimethylb...				0.452	0.661	0.715	0.824	0.964	1.014	*L	0.9962
106) I	IS1_Chrysene-d12	-----ISTD-----										
107) T	Benzo(a)anthra...	1.403	1.324	1.338	1.293	1.310	1.287	1.326	1.292	1.248	1.313	3.27
108) T	3,3'-Dichlorob...	0.401	0.426	0.436	0.452	0.472	0.472	0.505	0.511	0.504	0.464	8.36
109) T	Chrysene	1.490	1.463	1.355	1.312	1.238	1.198	1.220	1.200	1.160	1.293	9.29
110) T	Bis(2-ethylhex...	0.547	0.578	0.582	0.586	0.681	0.700	0.760	0.767	0.750	0.661	13.39
111) T	Di-n-octylphth...	0.818	0.840	0.880	0.947	1.114	1.157	1.299	1.333	1.280	1.074	19.27
112) T	Benzo(b)fluora...	1.373	1.282	1.406	1.339	1.335	1.338	1.342	1.295	1.281	1.332	3.11

Response Factor Report Dakota

Method Path : I:\8270\Dakota\250416RVTICAL\
 Method File : FS250416RVT_Dakota.m
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Thu Apr 17 14:28:59 2025
 Response Via : Initial Calibration

Calibration Files

L1 =AP9L1.D L2 =AP9L2.D L3 =ABNL3.D L4 =AP9L4.D L5 =AP9L5.D L6 =AP9L6.D L7 =AP9L7.D
 L8 =AP9L8.D L9 =AP9L9.D

	Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	Avg	%RSD
113) T	Benzo(k)fluora...	1.335	1.441	1.330	1.426	1.354	1.343	1.320	1.370	1.276	1.355	3.81
114) T	Benzo(a)pyrene	1.225	1.288	1.256	1.327	1.247	1.276	1.284	1.285	1.249	1.271	2.38
115) I	IS1_Perylene-d12	-----ISTD-----										
116) T	Indeno(1,2,3-c...	1.205	1.085	1.213	1.247	1.239	1.254	1.271	1.307	1.362	1.242	6.15
117) T	Dibenzo(a,h)an...	1.070	1.235	1.241	1.221	1.206	1.163	1.199	1.205	1.235	1.197	4.45
118) T	Benzo(ghi)pery...	1.256	1.169	1.238	1.224	1.173	1.145	1.184	1.186	1.203	1.198	2.97

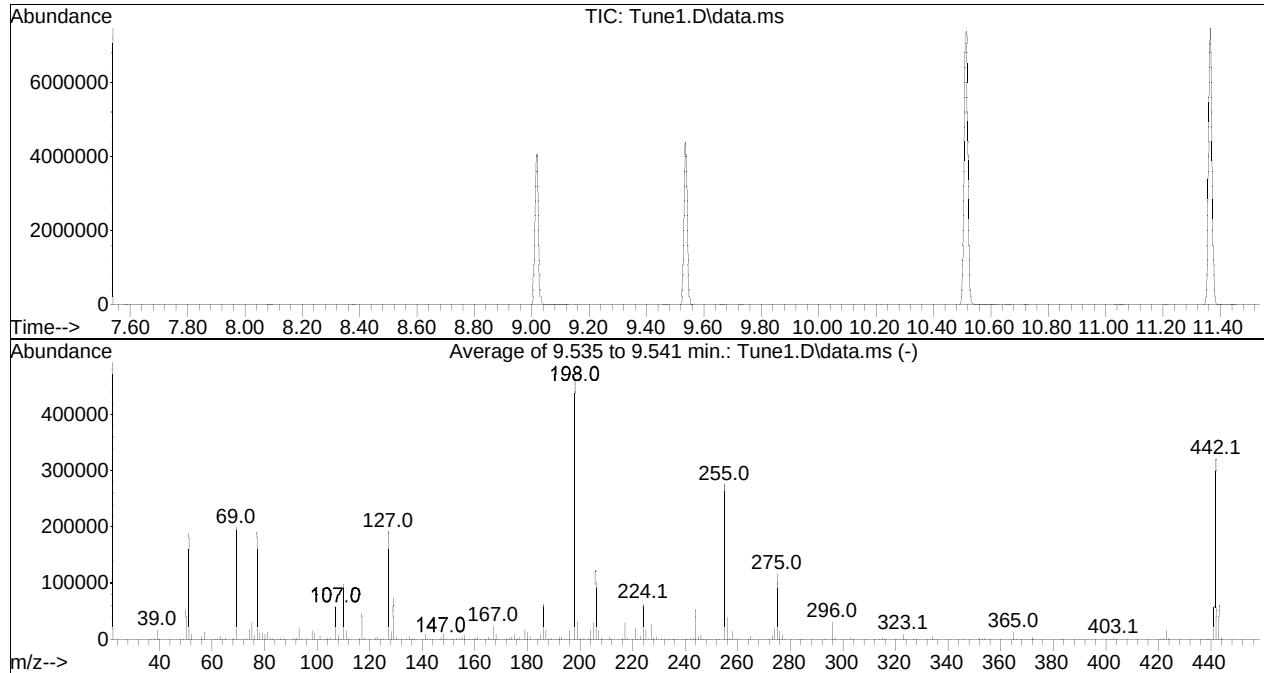
(#) = Out of Range

DFTPP

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : Tune1.D
 Acq On : 16 Apr 2025 5:04 pm
 Operator : Dakota:HNY
 Sample : Tune1 Lot # 11483
 Misc : WG2055280
 ALS Vial : 100 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Thu Apr 17 14:28:59 2025



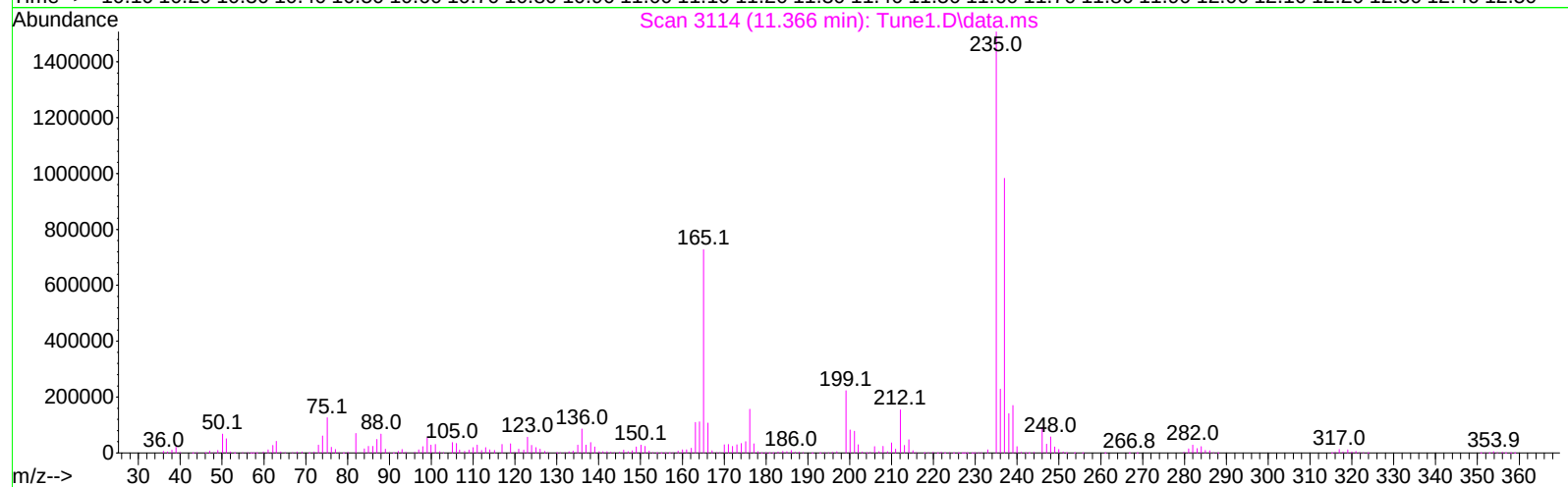
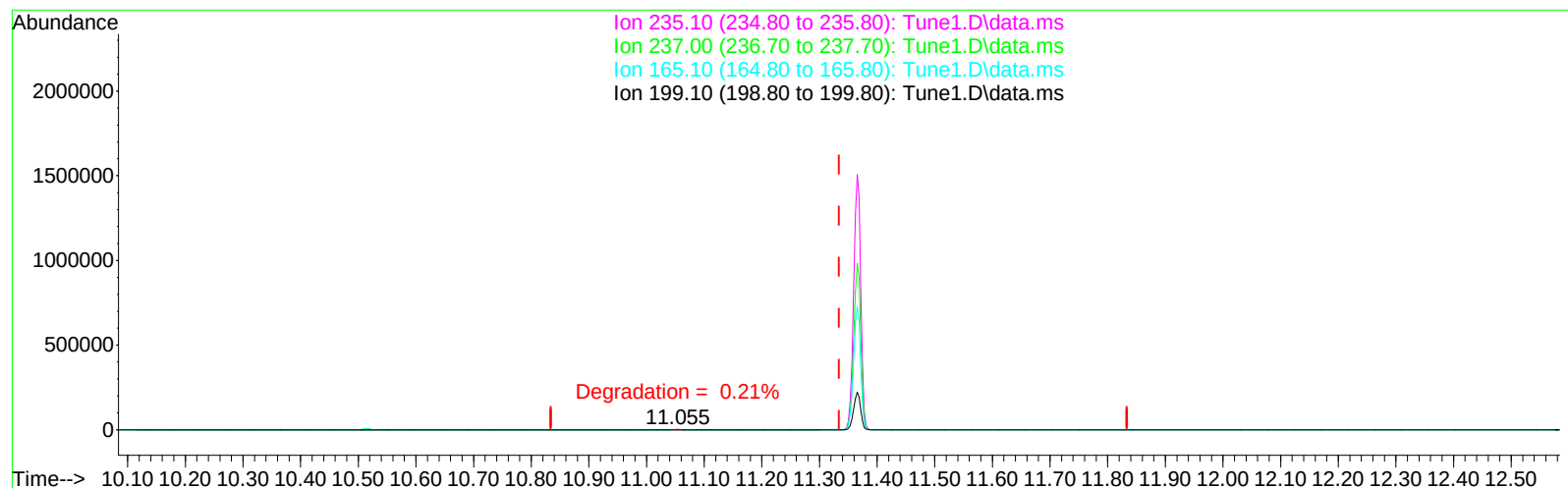
Spectrum Information: Average of 9.535 to 9.541 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	40.1	187925	PASS
68	69	0.00	2	1.3	2569	PASS
69	69	100	100	100.0	198891	PASS
70	69	0.00	2	0.7	1327	PASS
127	198	10	80	40.8	191275	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	468907	PASS
199	198	5	9	6.7	31475	PASS
275	198	10	60	24.7	116011	PASS
365	198	1	100	2.9	13729	PASS
441	442	0.01	24	18.3	58821	PASS
442	198	50	100	68.4	320811	PASS
443	442	15	24	18.8	60416	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : Tune1.D
 Acq On : 16 Apr 2025 5:04 pm
 Operator : Dakota:HNY
 Sample : Tune1 Lot # 11483
 Misc : WG2055280
 ALS Vial : 100 Sample Multiplier: 1

Quant Time: Apr 16 17:24:56 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\DftppDakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Apr 04 07:50:11 2025
 Response via : Initial Calibration



CHROMtools™ [Tune1 Lot # 11483]

(6) DDT (T)

11.366min (+ 0.032) 210.46

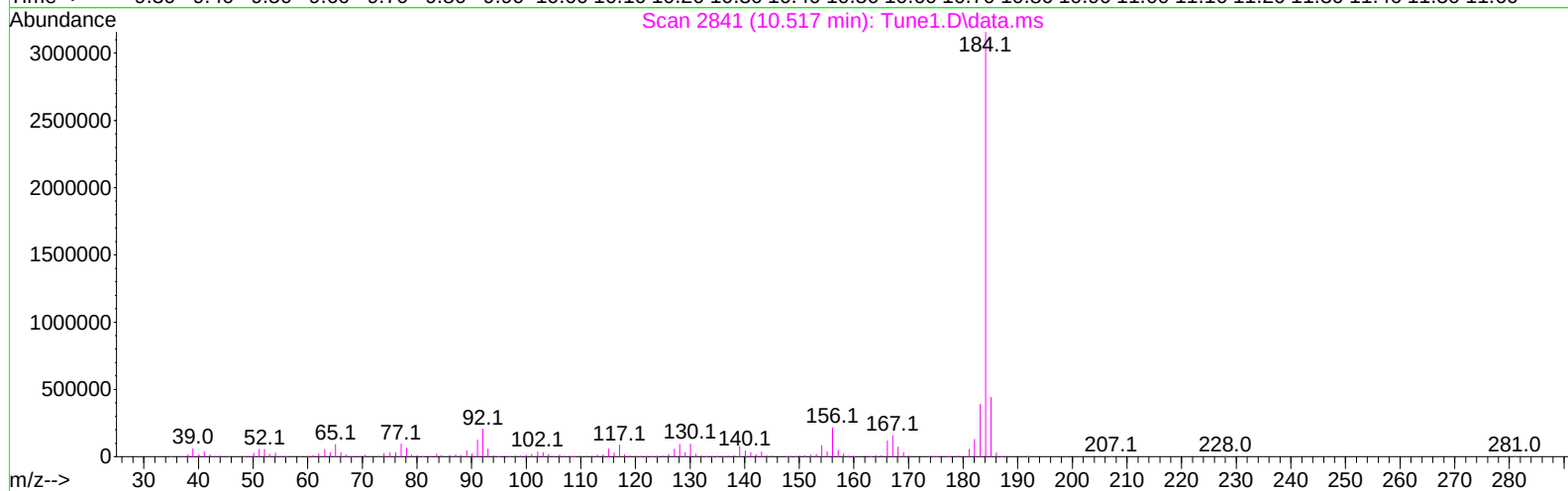
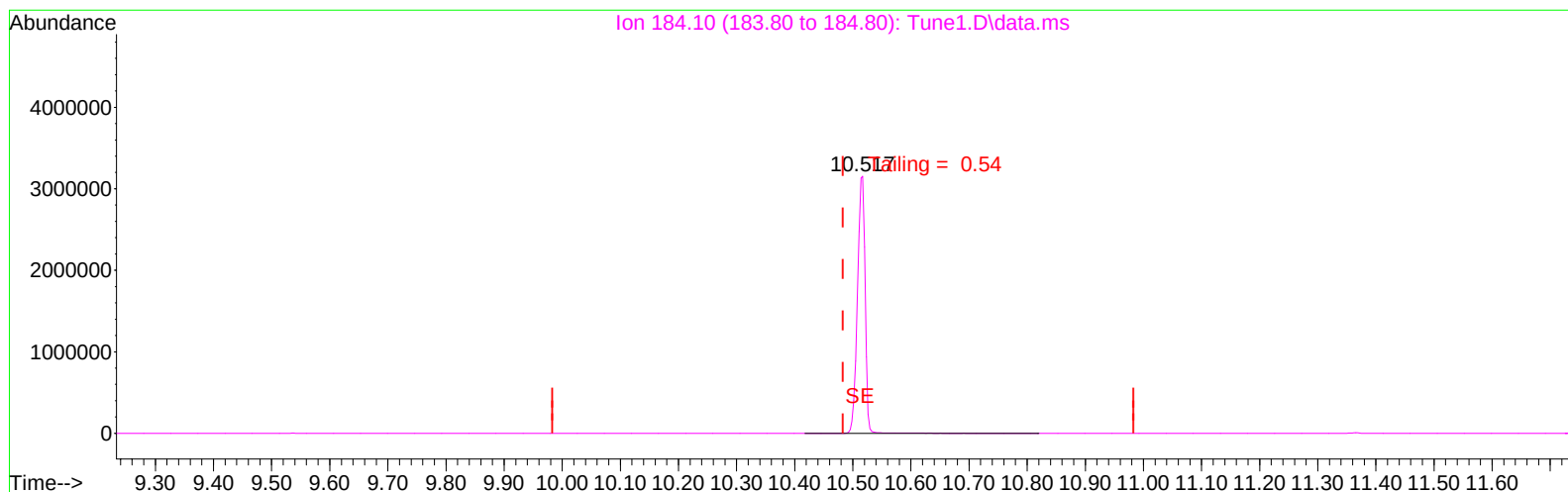
response 1282889

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	63.90	65.05
165.10	48.70	48.21
199.10	15.80	14.56

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : Tune1.D
 Acq On : 16 Apr 2025 5:04 pm
 Operator : Dakota:HNY
 Sample : Tune1 Lot # 11483
 Misc : WG2055280
 ALS Vial : 100 Sample Multiplier: 1

Quant Time: Apr 16 17:24:56 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\DftppDakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Apr 04 07:50:11 2025
 Response via : Initial Calibration



CHROMtools™ [Tune1 Lot # 11483]

(3) Benzidine (T)

10.517min (+ 0.034) 284.33

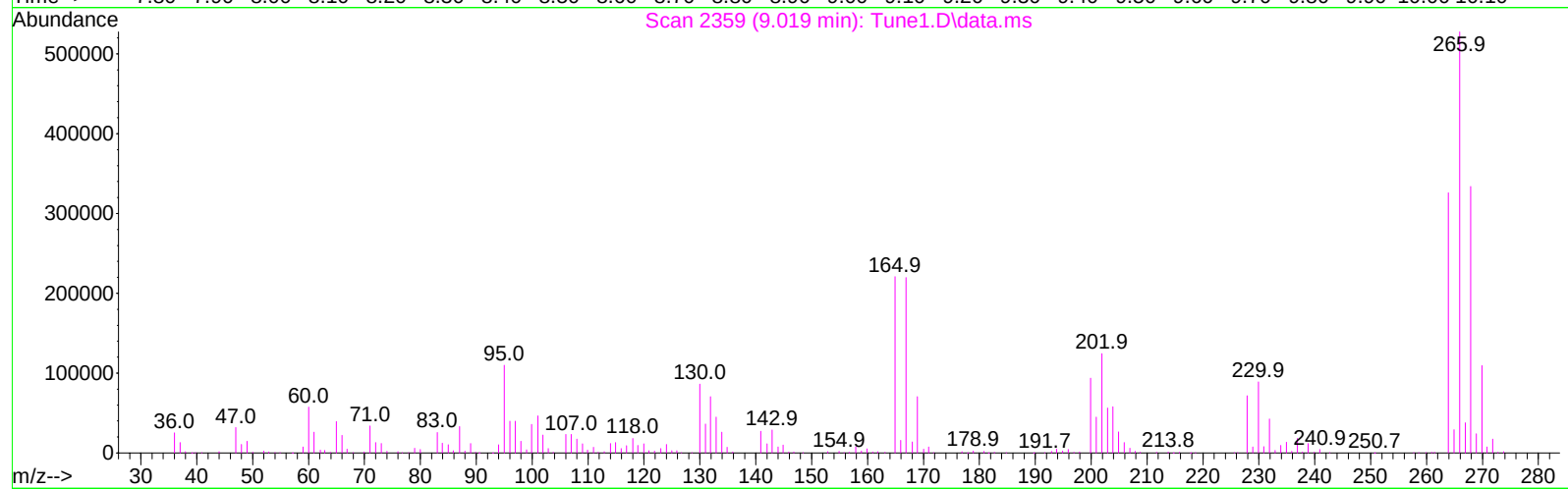
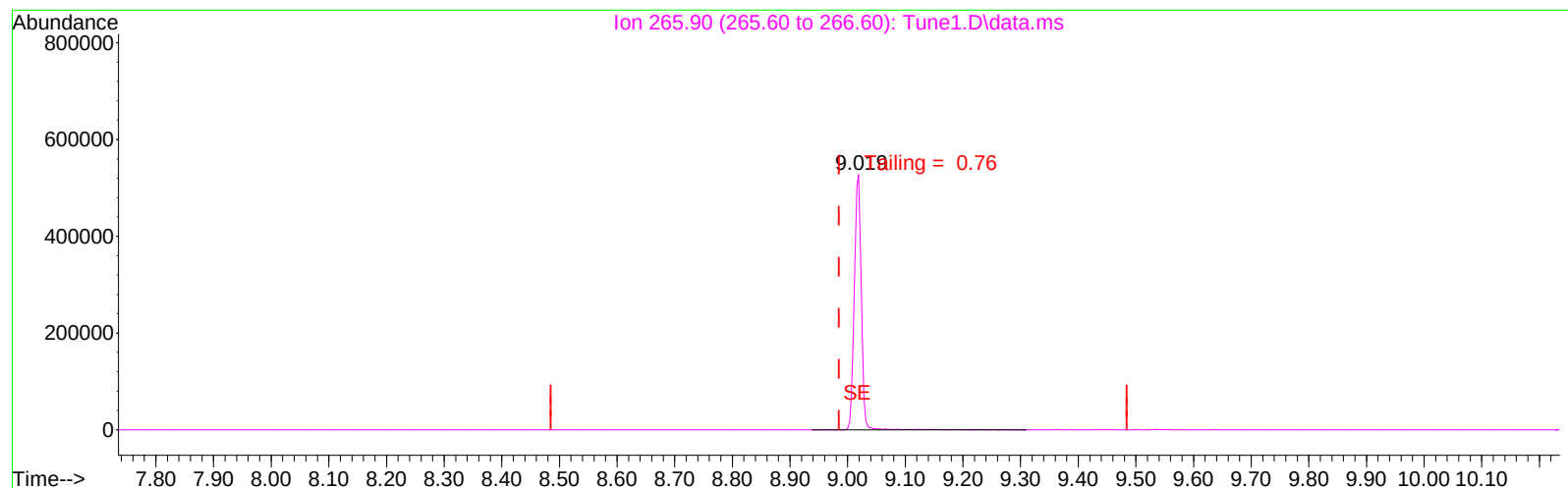
response 2894498

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : Tune1.D
 Acq On : 16 Apr 2025 5:04 pm
 Operator : Dakota:HNY
 Sample : Tune1 Lot # 11483
 Misc : WG2055280
 ALS Vial : 100 Sample Multiplier: 1

Quant Time: Apr 16 17:24:56 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\DftppDakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Apr 04 07:50:11 2025
 Response via : Initial Calibration



CHROMtools™ [Tune1 Lot # 11483]

(1) Pentachlorophenol (T)

9.019min (+ 0.034) 208.72

response 438388

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNL9.D
 Acq On : 16 Apr 2025 5:27 pm
 Operator : Dakota:HNY
 Sample : IL2,32,,ABNL50 Lot# 11532
 Misc : WG2055280
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 17 15:22:28 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.820	152	46051	4.000	ug/ml	0.00
Standard Area 1 = 38918			Recovery =	118.33%		
37) IS1_Naphthalene-d8	6.057	136	166190	4.000	ug/ml	# 0.00
Standard Area 1 = 137542			Recovery =	120.83%		
65) IS1_Acenaphthene-d10	7.760	164	119345	4.000	ug/ml	0.00
Standard Area 1 = 98079			Recovery =	121.68%		
90) IS1_Phenanthrene-d10	9.190	188	255062	4.000	ug/ml	0.00
Standard Area 1 = 211127			Recovery =	120.81%		
106) IS1_Chrysene-d12	11.832	240	295108	4.000	ug/ml	0.01
Standard Area 1 = 240990			Recovery =	122.46%		
115) IS1_Perylene-d12	13.286	264	317504	4.000	ug/ml	0.00
Standard Area 1 = 282356			Recovery =	112.45%		
System Monitoring Compounds						
4) 2-Fluorophenol	3.549	112	543328	45.956	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	2297.80%#		
7) Phenol-d6	4.497	99	734051	50.337	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	2516.85%#		
19) Nitrobenzene-d5	5.361	82	796979	50.985	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	5098.50%#		
48) 2-Fluorobiphenyl	7.123	172	2091153	48.308	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	4830.80%#		
81) 2,4,6-Tribromophenol	8.525	330	406134	57.801	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	2890.05%#		
98) 4-Terphenyl-d14	10.766	244	3331370	48.864	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	4886.40%#		
Target Compounds						
						Qvalue
2) n-Nitrosodimethylamine	2.175	74	378410	47.948	ug/ml#	88
3) Pyridine	2.206	79	671773	48.585	ug/ml#	67
5) Aniline	4.500	93	964731	49.854	ug/ml#	40
6) 2-Chlorophenol	4.615	128	629078	48.069	ug/ml	96
8) Phenol	4.509	94	861036	48.487	ug/ml#	41
9) Bis(2-chloroethyl)ether	4.580	93	544750	47.519	ug/ml	93
10) 1,3-Dichlorobenzene	4.761	146	794019	45.713	ug/ml	94
11) 1,4-Dichlorobenzene	4.835	146	809988	45.233	ug/ml	94
12) 1,2-Dichlorobenzene	4.981	146	779894	46.881	ug/ml	94

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNL9.D
 Acq On : 16 Apr 2025 5:27 pm
 Operator : Dakota:HNY
 Sample : IL2,32,,ABNL50 Lot# 11532
 Misc : WG2055280
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 17 15:22:28 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13)	Benzyl alcohol	4.969	79	588089	50.847	ug/ml	96
14)	Bis(2-chloroisopropyl)...	5.118	45	1177898	47.810	ug/ml#	97
15)	2-Methylphenol	5.096	108	591948	50.724	ug/ml	99
16)	Hexachloroethane	5.311	117	297330	48.360	ug/ml#	43
17)	n-Nitrosodi-n-propylamine	5.239	70	555939	53.217	ug/ml#	85
18)	3-Methylphenol/4-Methy...	5.252	108	633666	50.682	ug/ml	97
20)	Nitrobenzene	5.379	77	774115	50.591	ug/ml	93
21)	Isophorone	5.625	82	1434418	51.040	ug/ml#	92
22)	2-Nitrophenol	5.693	139	378848	56.092	ug/ml	94
23)	2,4-Dimethylphenol	5.765	107	711051	52.832	ug/ml	96
24)	Bis(2-chloroethoxy)met...	5.855	93	814955	49.220	ug/ml#	95
25)	2,4-Dichlorophenol	5.933	162	752679	53.917	ug/ml#	92
26)	1,2,4-Trichlorobenzene	6.010	180	852472	48.818	ug/ml#	97
38)	Naphthalene	6.075	128	1968571	46.233	ug/ml	99
39)	Benzoic Acid	5.911	105	538671	50.454	ug/ml	92
40)	4-Chloroaniline	6.144	65	295889	50.841	ug/ml	97
41)	Hexachlorobutadiene	6.222	225	510600	48.651	ug/ml	99
42)	p-Chloro-m-cresol	6.635	107	632580	53.487	ug/ml	94
43)	2-Methylnaphthalene	6.753	142	1350880	48.819	ug/ml	99
44)	1-Methylnaphthalene	6.846	115	465143	49.462	ug/ml	90
45)	Hexachlorocyclopentadiene	6.924	237	728019	51.372	ug/ml	100
46)	2,4,6-Trichlorophenol	7.039	196	651735	53.139	ug/ml	99
47)	2,4,5-Trichlorophenol	7.067	196	701327	51.531	ug/ml	100
49)	2-Chloronaphthalene	7.222	162	1706253	48.951	ug/ml#	90
50)	2-Nitroaniline	7.331	138	504148	56.663	ug/ml	92
51)	1,4-Dinitrobenzene	7.465	168	274554	59.856	ug/ml	82
52)	1,3-Dinitrobenzene	7.539	168	307970	55.029	ug/ml#	1
53)	Dimethyl phthalate	7.536	163	2047063	48.706	ug/ml#	97
54)	Acenaphthylene	7.620	152	2766931	50.175	ug/ml	98
55)	2,6-Dinitrotoluene	7.577	165	458805	54.551	ug/ml#	76
56)	1,2-Dinitrobenzene	7.623	168	186631	53.450	ug/ml#	1
66)	3-Nitroaniline	7.735	138	458426	56.433	ug/ml#	93
67)	Acenaphthene	7.794	154	1526470	48.892	ug/ml	91
68)	2,4-Dinitrophenol	7.832	184	354175	46.094	ug/ml#	79
69)	Dibenzofuran	7.962	168	2622944	46.914	ug/ml	89
70)	2,4-Dinitrotoluene	7.965	165	664643	55.635	ug/ml	88
71)	4-Nitrophenol	7.915	65	415245	56.339	ug/ml	95
72)	2,3,5,6-Tetrachlorophenol	8.046	232	655662	54.329	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNL9.D
 Acq On : 16 Apr 2025 5:27 pm
 Operator : Dakota:HNY
 Sample : IL2,32,,ABNL50 Lot# 11532
 Misc : WG2055280
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 17 15:22:28 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
73)	2,3,4,6-Tetrachlorophenol	8.090	232	625655	52.782	ug/ml	98
74)	Diethyl phthalate	8.223	149	2063891	49.309	ug/ml	98
75)	Fluorene	8.292	166	2149472	49.346	ug/ml	94
76)	4-Chlorophenyl phenyl ...	8.307	204	1059079	46.936	ug/ml#	84
77)	4-Nitroaniline	8.329	138	468346	54.889	ug/ml#	91
78)	4,6-Dinitro-o-cresol	8.360	198	454058	61.442	ug/ml#	59
79)	NDPA/DPA	8.425	169	1862679	48.947	ug/ml	94
80)	Azobenzene	8.459	77	1935580	49.951	ug/ml	95
82)	4-Bromophenyl phenyl e...	8.776	248	698173	48.971	ug/ml#	79
83)	Hexachlorobenzene	8.829	284	802937	48.263	ug/ml#	81
84)	Pentachlorophenol	9.019	266	598003	60.628	ug/ml	99
91)	Phenanthrene	9.215	178	3511593	47.881	ug/ml	100
92)	Anthracene	9.264	178	3626249	50.481	ug/ml	99
93)	Carbazole	9.429	167	3343722	49.459	ug/ml	99
94)	Di-n-butylphthalate	9.808	149	3718384	52.994	ug/ml	98
95)	Fluoranthene	10.365	202	4253420	49.223	ug/ml#	91
96)	Benzidine	10.514	184	2968640	56.959	ug/ml#	94
97)	Pyrene	10.582	202	4491391	48.057	ug/ml	98
99)	Butyl benzyl phthalate	11.291	149	1793552	58.898	ug/ml	88
107)	Benzo(a)anthracene	11.822	228	4603161	47.507	ug/ml	98
108)	3,3'-Dichlorobenzidine	11.816	252	1858512	54.257	ug/ml#	96
109)	Chrysene	11.860	228	4280873	44.879	ug/ml	98
110)	Bis(2-ethylhexyl)phtha...	11.925	149	2765766	56.700	ug/ml#	94
111)	Di-n-octylphthalate	12.606	149	4720051	59.567	ug/ml#	78
112)	Benzo(b)fluoranthene	12.929	252	4725521	48.079	ug/ml#	92
113)	Benzo(k)fluoranthene	12.960	252	4706530M3	47.083	ug/ml	
114)	Benzo(a)pyrene	13.243	252	4607203	49.136	ug/ml#	91
116)	Indeno(1,2,3-cd)pyrene	14.293	276	5406741M6	54.824	ug/mL	
117)	Dibenzo(a,h)anthracene	14.318	278	4902295	51.585	ug/ml#	88
118)	Benzo(ghi)perylene	14.561	276	4773069	50.212	ug/ml#	83

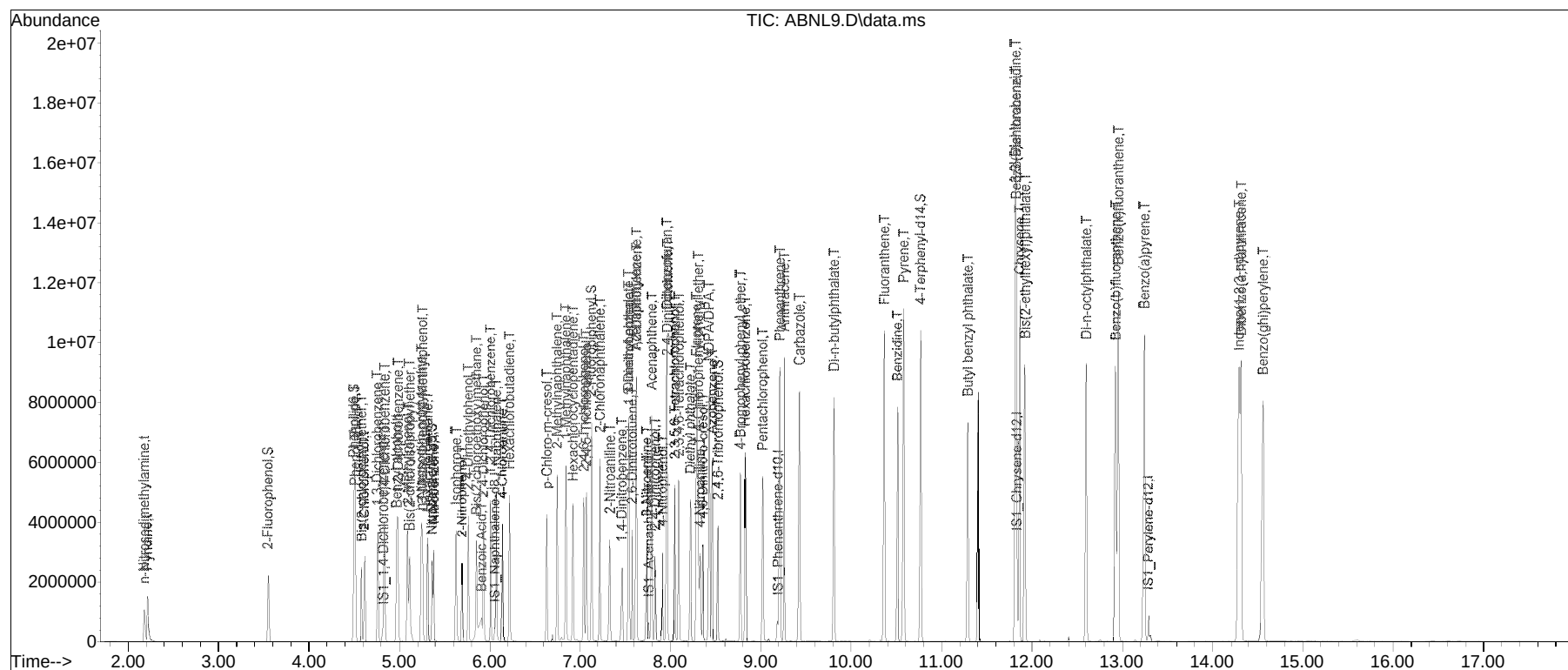
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
Data File : ABNL9.D
Acq On : 16 Apr 2025 5:27 pm
Operator : Dakota:HNY
Sample : IL2,32,,ABNL50 Lot# 11532
Misc : WG2055280
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 17 15:22:28 2025
Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Apr 17 14:28:59 2025
Response via : Initial Calibration

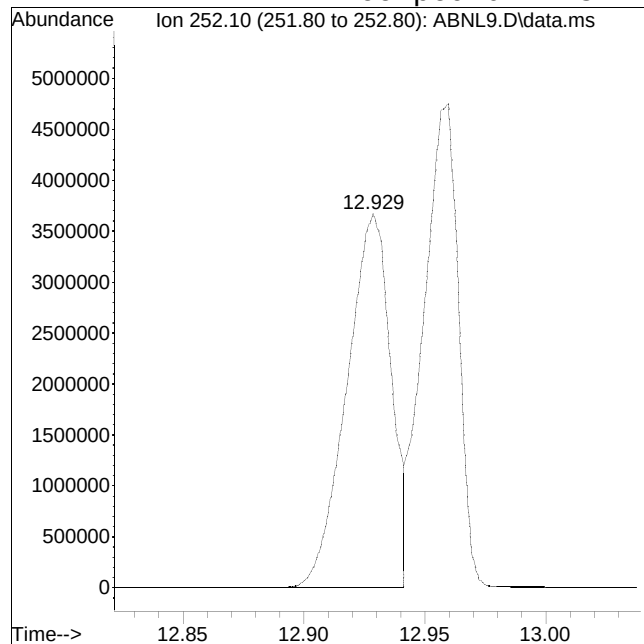
Sub List : ABNITa\8270ABNakoaa\850416RVTICAL\AP9L6.D•



Manual Integration Report

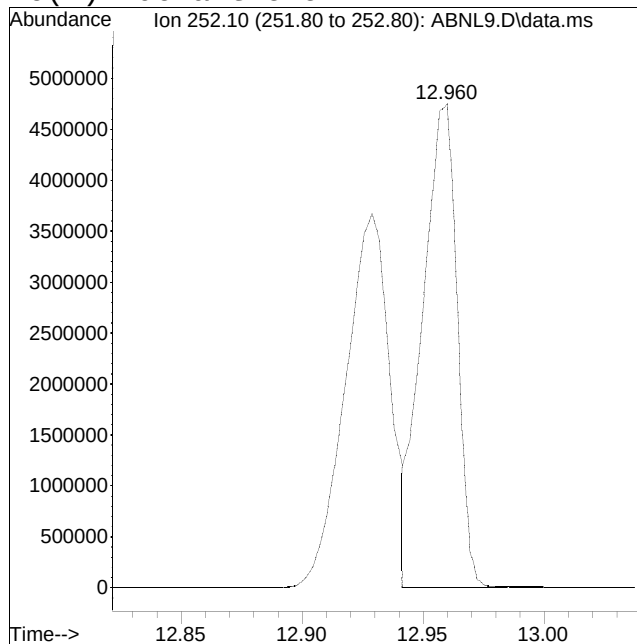
Data Path : I:\8270\Dakota\250416RVTICOM
Data File : ABNL9.D
Date Inj'd : 4/16/2025 5:27 pm
Sample : IL2,32,,ABNL50 Lot# 11532
Method : FS250416RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 4/17/2025 3:23 pm

Compound #113: Benzo(k)fluoranthene



Original Peak Response = 4725521

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

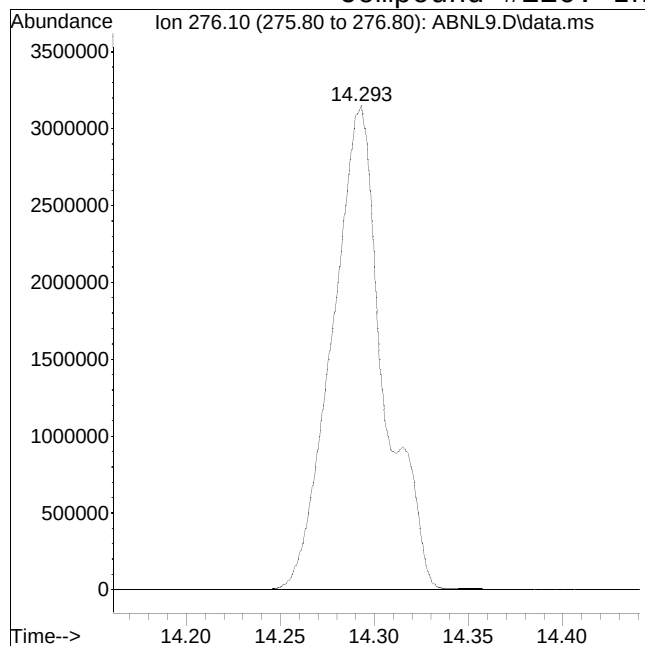


Manual Peak Response = 4706530 M3

Manual Integration Report

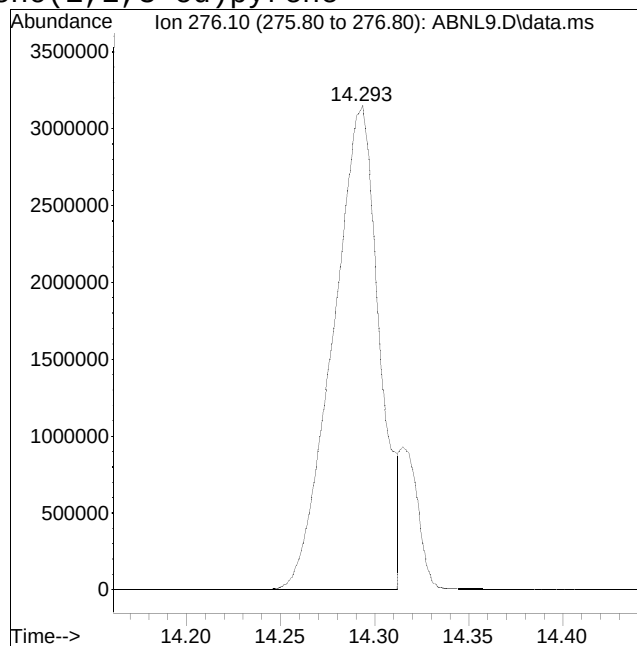
Data Path : I:\8270\Dakota\250416RVTICQ\data.ms Method : FS250416RVT_Dakota.m
Data File : ABNL9.D Operator : Dakota:HNY
Date Inj'd : 4/16/2025 5:27 pm Instrument : Dakota
Sample : IL2,32,,ABNL50 Lot# 11532 Quant Date : 4/17/2025 3:23 pm

Compound #116: Indeno(1,2,3-cd)pyrene



Original Peak Response = 6005953

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 5406741 M6

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNL8.D
 Acq On : 16 Apr 2025 5:49 pm
 Operator : Dakota:HNY
 Sample : IL3,32,,ABNL25 Lot# 11533
 Misc : WG2055280
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 17 15:22:16 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.820	152	42445	4.000	ug/ml	0.00
Standard Area 1 = 38918			Recovery =	109.06%		
37) IS1_Naphthalene-d8	6.054	136	152550	4.000	ug/ml	# 0.00
Standard Area 1 = 137542			Recovery =	110.91%		
65) IS1_Acenaphthene-d10	7.757	164	110132	4.000	ug/ml	0.00
Standard Area 1 = 98079			Recovery =	112.29%		
90) IS1_Phenanthrene-d10	9.187	188	240121	4.000	ug/ml	0.00
Standard Area 1 = 211127			Recovery =	113.73%		
106) IS1_Chrysene-d12	11.822	240	271924	4.000	ug/ml	0.00
Standard Area 1 = 240990			Recovery =	112.84%		
115) IS1_Perylene-d12	13.283	264	301247	4.000	ug/ml	0.00
Standard Area 1 = 282356			Recovery =	106.69%		
System Monitoring Compounds						
4) 2-Fluorophenol	3.546	112	258326	23.706	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	1185.30%#		
7) Phenol-d6	4.490	99	345923	25.737	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	1286.85%#		
19) Nitrobenzene-d5	5.358	82	371921	25.814	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	2581.40%#		
48) 2-Fluorobiphenyl	7.120	172	963794	24.255	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	2425.50%#		
81) 2,4,6-Tribromophenol	8.518	330	177204	27.330	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	1366.50%#		
98) 4-Terphenyl-d14	10.763	244	1577373	24.576	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	2457.60%#		
Target Compounds						
						Qvalue
2) n-Nitrosodimethylamine	2.175	74	180374	24.797	ug/ml#	87
3) Pyridine	2.209	79	317273	24.896	ug/ml#	67
5) Aniline	4.500	93	452358	25.362	ug/ml#	39
6) 2-Chlorophenol	4.612	128	295149	24.469	ug/ml	95
8) Phenol	4.503	94	400267	24.455	ug/ml#	39
9) Bis(2-chloroethyl)ether	4.577	93	262009	24.797	ug/ml	95
10) 1,3-Dichlorobenzene	4.761	146	372621	23.275	ug/ml	94
11) 1,4-Dichlorobenzene	4.835	146	385963	23.385	ug/ml	94
12) 1,2-Dichlorobenzene	4.981	146	373762	24.377	ug/ml	93

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNL8.D
 Acq On : 16 Apr 2025 5:49 pm
 Operator : Dakota:HNY
 Sample : IL3,32,,ABNL25 Lot# 11533
 Misc : WG2055280
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 17 15:22:16 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13)	Benzyl alcohol	4.966	79	279545	26.223	ug/ml	96
14)	Bis(2-chloroisopropyl)...	5.115	45	555682	24.471	ug/ml	99
15)	2-Methylphenol	5.093	108	277005	25.753	ug/ml	98
16)	Hexachloroethane	5.311	117	140600	24.811	ug/ml#	45
17)	n-Nitrosodi-n-propylamine	5.236	70	264610	27.482	ug/ml#	84
18)	3-Methylphenol/4-Methy...	5.249	108	300113	26.043	ug/ml	99
20)	Nitrobenzene	5.376	77	358356	25.409	ug/ml	94
21)	Isophorone	5.619	82	669717	25.854	ug/ml#	93
22)	2-Nitrophenol	5.690	139	173788	27.917	ug/ml	95
23)	2,4-Dimethylphenol	5.762	107	328907	26.514	ug/ml	98
24)	Bis(2-chloroethoxy)met...	5.849	93	380570	24.938	ug/ml#	95
25)	2,4-Dichlorophenol	5.926	162	342629	26.629	ug/ml#	92
26)	1,2,4-Trichlorobenzene	6.007	180	392866	24.410	ug/ml#	96
38)	Naphthalene	6.076	128	905058	23.157	ug/ml	99
39)	Benzoic Acid	5.873	105	234537	24.687	ug/ml	89
40)	4-Chloroaniline	6.141	65	136399	25.532	ug/ml	99
41)	Hexachlorobutadiene	6.222	225	237144	24.616	ug/ml	99
42)	p-Chloro-m-cresol	6.632	107	286580	26.398	ug/ml	91
43)	2-Methylnaphthalene	6.753	142	634832	24.993	ug/ml	99
44)	1-Methylnaphthalene	6.846	115	214708	24.873	ug/ml	87
45)	Hexachlorocyclopentadiene	6.921	237	334690	25.729	ug/ml	99
46)	2,4,6-Trichlorophenol	7.036	196	298614	26.524	ug/ml	99
47)	2,4,5-Trichlorophenol	7.064	196	325682	26.070	ug/ml	99
49)	2-Chloronaphthalene	7.219	162	791095	24.725	ug/ml#	90
50)	2-Nitroaniline	7.328	138	228822	28.018	ug/ml	92
51)	1,4-Dinitrobenzene	7.459	168	127177	30.205	ug/ml	80
52)	1,3-Dinitrobenzene	7.533	168	141321	27.510	ug/ml#	1
53)	Dimethyl phthalate	7.530	163	961723	24.928	ug/ml#	98
54)	Acenaphthylene	7.617	152	1283030	25.347	ug/ml	98
55)	2,6-Dinitrotoluene	7.571	165	204879	26.538	ug/ml#	78
56)	1,2-Dinitrobenzene	7.614	168	86661	27.038	ug/ml#	1
66)	3-Nitroaniline	7.726	138	210801	28.121	ug/ml#	92
67)	Acenaphthene	7.788	154	705680	24.493	ug/ml	91
68)	2,4-Dinitrophenol	7.825	184	153772	24.837	ug/ml#	80
69)	Dibenzofuran	7.956	168	1206040	23.376	ug/ml	88
70)	2,4-Dinitrotoluene	7.959	165	304423	27.614	ug/ml	89
71)	4-Nitrophenol	7.906	65	189208	27.818	ug/ml	94
72)	2,3,5,6-Tetrachlorophenol	8.043	232	298275	26.783	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNL8.D
 Acq On : 16 Apr 2025 5:49 pm
 Operator : Dakota:HNY
 Sample : IL3,32,,ABNL25 Lot# 11533
 Misc : WG2055280
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 17 15:22:16 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
73)	2,3,4,6-Tetrachlorophenol	8.086	232	284427	26.002	ug/ml	98
74)	Diethyl phthalate	8.217	149	948697	24.562	ug/ml	98
75)	Fluorene	8.289	166	971680	24.173	ug/ml	94
76)	4-Chlorophenyl phenyl ...	8.304	204	484624	23.274	ug/ml#	83
77)	4-Nitroaniline	8.316	138	218430	27.741	ug/ml#	91
78)	4,6-Dinitro-o-cresol	8.351	198	196897	28.873	ug/ml#	61
79)	NDPA/DPA	8.419	169	857362	24.414	ug/ml	94
80)	Azobenzene	8.453	77	893491	24.987	ug/ml	96
82)	4-Bromophenyl phenyl e...	8.773	248	312026	23.717	ug/ml#	79
83)	Hexachlorobenzene	8.826	284	351734	22.911	ug/ml#	82
84)	Pentachlorophenol	9.016	266	266129	29.238	ug/ml	99
91)	Phenanthrene	9.212	178	1627442	23.571	ug/ml	99
92)	Anthracene	9.258	178	1675654	24.778	ug/ml	99
93)	Carbazole	9.423	167	1553284	24.405	ug/ml	99
94)	Di-n-butylphthalate	9.805	149	1757228	26.602	ug/ml#	98
95)	Fluoranthene	10.362	202	1997538	24.555	ug/ml#	90
96)	Benzidine	10.511	184	1361996	27.759	ug/ml#	94
97)	Pyrene	10.579	202	2117979	24.072	ug/ml	99
99)	Butyl benzyl phthalate	11.288	149	843729	29.431	ug/ml	88
107)	Benzo(a)anthracene	11.813	228	2194949	24.585	ug/ml	99
108)	3,3'-Dichlorobenzidine	11.810	252	869040	27.533	ug/ml#	96
109)	Chrysene	11.854	228	2040268	23.213	ug/ml	99
110)	Bis(2-ethylhexyl)phtha...	11.922	149	1304138	29.015	ug/ml#	93
111)	Di-n-octylphthalate	12.599	149	2265586	31.029	ug/ml#	78
112)	Benzo(b)fluoranthene	12.920	252	2200382	24.296	ug/ml#	91
113)	Benzo(k)fluoranthene	12.951	252	2327518	25.269	ug/ml#	93
114)	Benzo(a)pyrene	13.233	252	2183862M2	25.277	ug/ml	
116)	Indeno(1,2,3-cd)pyrene	14.281	276	2460147M6	26.292	ug/mL	
117)	Dibenzo(a,h)anthracene	14.306	278	2268467	25.158	ug/ml#	89
118)	Benzo(ghi)perylene	14.545	276	2232614	24.754	ug/ml#	84

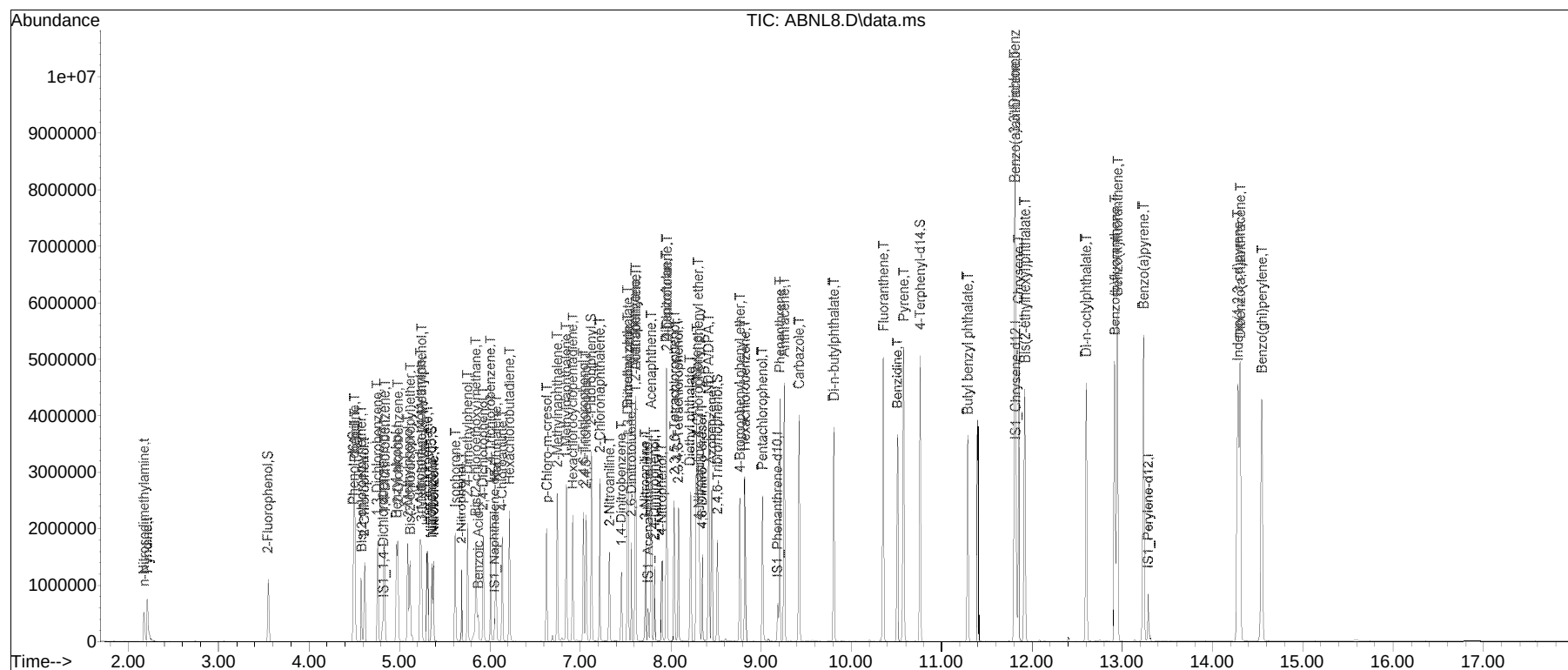
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
Data File : ABNL8.D
Acq On : 16 Apr 2025 5:49 pm
Operator : Dakota:HNY
Sample : IL3,32,,ABNL25 Lot# 11533
Misc : WG2055280
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 17 15:22:16 2025
Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Apr 17 14:28:59 2025
Response via : Initial Calibration

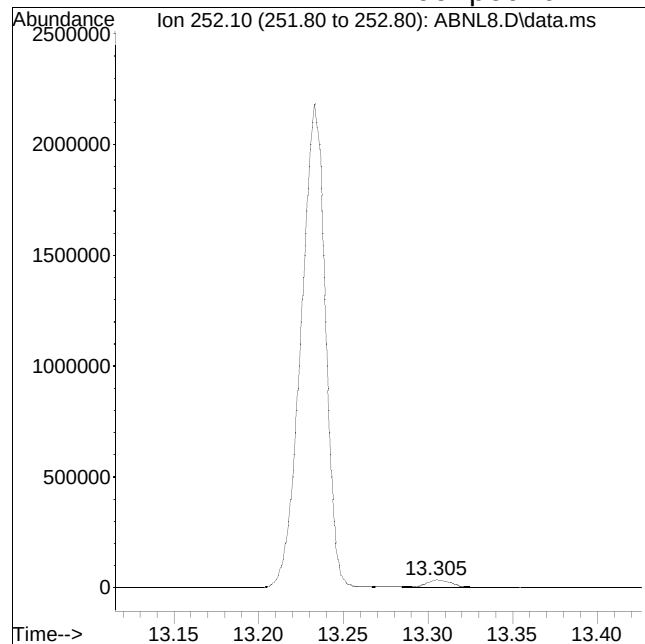
Sub List : ABNITa\8270ABNakoa\850416RVTICAL\AP9L6.D•



Manual Integration Report

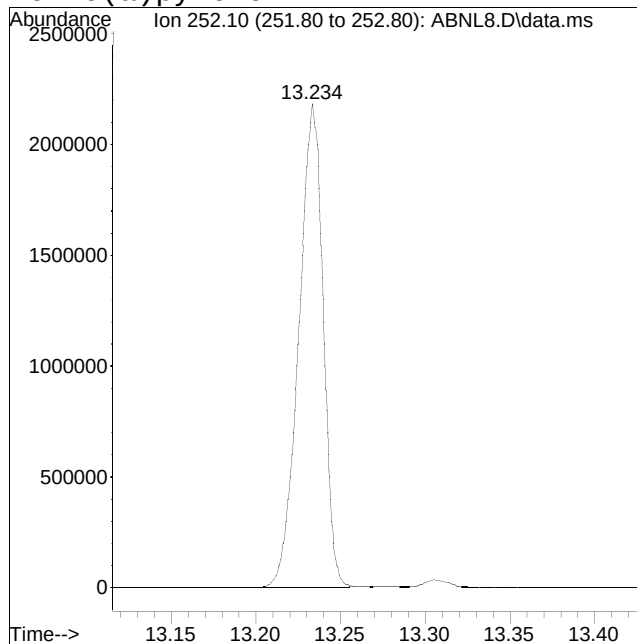
Data Path : I:\8270\Dakota\250416RVTICOM
Data File : ABNL8.D
Date Inj'd : 4/16/2025 5:49 pm
Sample : IL3,32,,ABNL25 Lot# 11533
Method : FS250416RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 4/17/2025 3:23 pm

Compound #114: Benzo(a)pyrene



Original Peak Response = 35787

M2 = Peak not found by automatic integration algorithm.

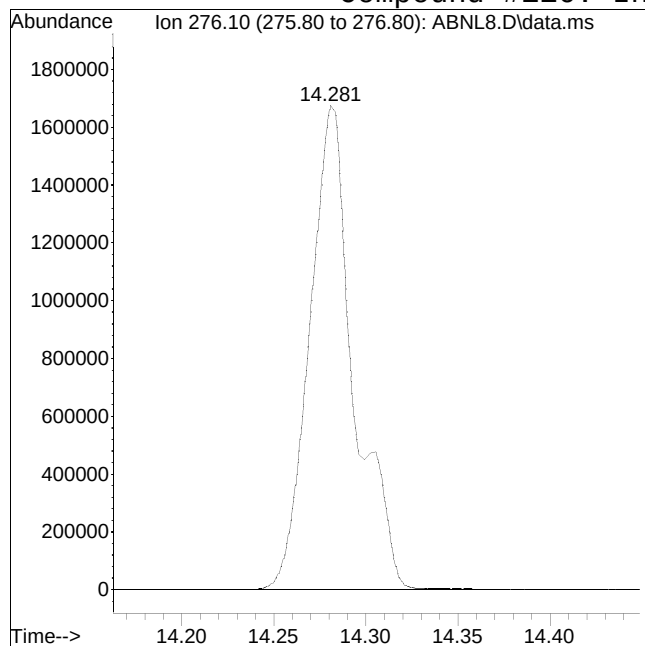


Manual Peak Response = 2183862 M2

Manual Integration Report

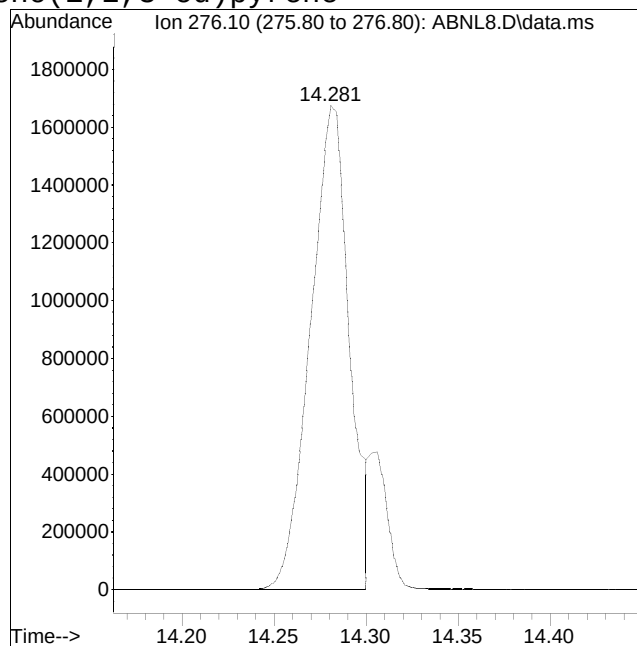
Data Path : I:\8270\Dakota\250416RVTICQ\data.ms
Data File : ABNL8.D
Date Inj'd : 4/16/2025 5:49 pm
Sample : IL3,32,,ABNL25 Lot# 11533
Method : FS250416RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 4/17/2025 3:23 pm

Compound #116: Indeno(1,2,3-cd)pyrene



Original Peak Response = 2794640

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 2460147 M6

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNL7.D
 Acq On : 16 Apr 2025 6:12 pm
 Operator : Dakota:HNY
 Sample : IL4,32,,ABNL10 Lot# 11534
 Misc : WG2055280
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 17 15:22:05 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.817	152	41982	4.000 ug/ml	#	0.00
Standard Area 1 = 38918			Recovery =	107.87%		
37) IS1_Naphthalene-d8	6.054	136	147003	4.000 ug/ml	#	0.00
Standard Area 1 = 137542			Recovery =	106.88%		
65) IS1_Acenaphthene-d10	7.757	164	106543	4.000 ug/ml		0.00
Standard Area 1 = 98079			Recovery =	108.63%		
90) IS1_Phenanthrene-d10	9.184	188	230710	4.000 ug/ml		0.00
Standard Area 1 = 211127			Recovery =	109.28%		
106) IS1_Chrysene-d12	11.819	240	267975	4.000 ug/ml		0.00
Standard Area 1 = 240990			Recovery =	111.20%		
115) IS1_Perylene-d12	13.283	264	300634	4.000 ug/ml		0.00
Standard Area 1 = 282356			Recovery =	106.47%		
System Monitoring Compounds						
4) 2-Fluorophenol	3.546	112	103256	9.580 ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	479.00%#		
7) Phenol-d6	4.487	99	136058	10.234 ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	511.70%#		
19) Nitrobenzene-d5	5.358	82	144037	10.108 ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	1010.80%#		
48) 2-Fluorobiphenyl	7.120	172	381796	9.971 ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	997.10%#		
81) 2,4,6-Tribromophenol	8.519	330	67891	10.823 ug/ml		0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	541.15%#		
98) 4-Terphenyl-d14	10.759	244	627171	10.170 ug/ml		0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	1017.00%#		
Target Compounds						
					Qvalue	
2) n-Nitrosodimethylamine	2.175	74	73469	10.211 ug/ml#		85
3) Pyridine	2.218	79	120154	9.532 ug/ml#		70
5) Aniline	4.497	93	183649	10.410 ug/ml#		40
6) 2-Chlorophenol	4.612	128	118135	9.902 ug/ml		95
8) Phenol	4.500	94	161524	9.977 ug/ml#		39
9) Bis(2-chloroethyl)ether	4.577	93	102855	9.842 ug/ml		93
10) 1,3-Dichlorobenzene	4.761	146	154311	9.745 ug/ml		94
11) 1,4-Dichlorobenzene	4.835	146	154009	9.434 ug/ml		94
12) 1,2-Dichlorobenzene	4.981	146	146363	9.651 ug/ml		94

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNL7.D
 Acq On : 16 Apr 2025 6:12 pm
 Operator : Dakota:HNY
 Sample : IL4,32,,ABNL10 Lot# 11534
 Misc : WG2055280
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 17 15:22:05 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13)	Benzyl alcohol	4.966	79	105325	9.989	ug/ml	97
14)	Bis(2-chloroisopropyl)...	5.115	45	217883	9.701	ug/ml#	95
15)	2-Methylphenol	5.090	108	105806	9.945	ug/ml	96
16)	Hexachloroethane	5.308	117	56743	10.124	ug/ml#	51
17)	n-Nitrosodi-n-propylamine	5.233	70	98680	10.362	ug/ml#	86
18)	3-Methylphenol/4-Methy...	5.246	108	115788	10.159	ug/ml	98
20)	Nitrobenzene	5.376	77	138451	9.925	ug/ml	93
21)	Isophorone	5.616	82	259744	10.138	ug/ml#	92
22)	2-Nitrophenol	5.690	139	68315	11.095	ug/ml	97
23)	2,4-Dimethylphenol	5.759	107	128753	10.494	ug/ml	97
24)	Bis(2-chloroethoxy)met...	5.849	93	151180	10.016	ug/ml	95
25)	2,4-Dichlorophenol	5.926	162	133299	10.474	ug/ml#	91
26)	1,2,4-Trichlorobenzene	6.007	180	155094	9.743	ug/ml	96
38)	Naphthalene	6.072	128	363567	9.653	ug/ml	99
39)	Benzoic Acid	5.842	105	83395	10.015	ug/ml	94
40)	4-Chloroaniline	6.138	65	52705	10.238	ug/ml	99
41)	Hexachlorobutadiene	6.222	225	93235	10.043	ug/ml	98
42)	p-Chloro-m-cresol	6.629	107	112704	10.773	ug/ml	92
43)	2-Methylnaphthalene	6.750	142	249287	10.185	ug/ml	99
44)	1-Methylnaphthalene	6.843	115	85735	10.307	ug/ml	89
45)	Hexachlorocyclopentadiene	6.921	237	126741	10.111	ug/ml	100
46)	2,4,6-Trichlorophenol	7.036	196	115657	10.661	ug/ml	98
47)	2,4,5-Trichlorophenol	7.064	196	122996	10.217	ug/ml	100
49)	2-Chloronaphthalene	7.219	162	309151	10.027	ug/ml#	90
50)	2-Nitroaniline	7.325	138	86231	10.957	ug/ml	94
51)	1,4-Dinitrobenzene	7.456	168	48170	11.872	ug/ml	83
52)	1,3-Dinitrobenzene	7.530	168	55037	11.118	ug/ml#	1
53)	Dimethyl phthalate	7.524	163	384596	10.345	ug/ml#	98
54)	Acenaphthylene	7.614	152	512137	10.499	ug/ml	98
55)	2,6-Dinitrotoluene	7.567	165	80355	10.801	ug/ml#	77
56)	1,2-Dinitrobenzene	7.611	168	34481	11.164	ug/ml#	1
66)	3-Nitroaniline	7.723	138	81929	11.298	ug/ml#	93
67)	Acenaphthene	7.788	154	272161	9.765	ug/ml	89
68)	2,4-Dinitrophenol	7.822	184	57186	10.655	ug/ml#	79
69)	Dibenzofuran	7.956	168	479158	9.600	ug/ml	87
70)	2,4-Dinitrotoluene	7.956	165	120159	11.267	ug/ml	88
71)	4-Nitrophenol	7.903	65	74326	11.296	ug/ml	94
72)	2,3,5,6-Tetrachlorophenol	8.043	232	116737	10.835	ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNL7.D
 Acq On : 16 Apr 2025 6:12 pm
 Operator : Dakota:HNY
 Sample : IL4,32,,ABNL10 Lot# 11534
 Misc : WG2055280
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 17 15:22:05 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
73)	2,3,4,6-Tetrachlorophenol	8.083	232	111546	10.541	ug/ml	97
74)	Diethyl phthalate	8.214	149	384293	10.285	ug/ml	99
75)	Fluorene	8.285	166	387593	9.967	ug/ml	94
76)	4-Chlorophenyl phenyl ...	8.301	204	191340	9.499	ug/ml#	82
77)	4-Nitroaniline	8.310	138	88175	11.576	ug/ml	89
78)	4,6-Dinitro-o-cresol	8.344	198	75136	11.389	ug/ml#	62
79)	NDPA/DPA	8.416	169	345192	10.161	ug/ml	95
80)	Azobenzene	8.453	77	349910	10.115	ug/ml	96
82)	4-Bromophenyl phenyl e...	8.770	248	124334	9.769	ug/ml#	79
83)	Hexachlorobenzene	8.823	284	139961	9.424	ug/ml#	81
84)	Pentachlorophenol	9.016	266	94829	10.769	ug/ml	97
91)	Phenanthrene	9.209	178	644599	9.717	ug/ml	100
92)	Anthracene	9.258	178	664248	10.223	ug/ml	99
93)	Carbazole	9.423	167	625869	10.235	ug/ml	99
94)	Di-n-butylphthalate	9.805	149	679742	10.710	ug/ml	98
95)	Fluoranthene	10.359	202	798919	10.221	ug/ml#	90
96)	Benzidine	10.508	184	539661	11.447	ug/ml#	93
97)	Pyrene	10.576	202	856664	10.134	ug/ml	100
99)	Butyl benzyl phthalate	11.285	149	320147	11.623	ug/ml	88
107)	Benzo(a)anthracene	11.810	228	888106	10.094	ug/ml	99
108)	3,3'-Dichlorobenzidine	11.807	252	338551	10.884	ug/ml#	95
109)	Chrysene	11.847	228	816993	9.432	ug/ml	99
110)	Bis(2-ethylhexyl)phtha...	11.919	149	509042	11.492	ug/ml#	94
111)	Di-n-octylphthalate	12.596	149	870364	12.096	ug/ml#	78
112)	Benzo(b)fluoranthene	12.916	252	899074	10.074	ug/ml#	92
113)	Benzo(k)fluoranthene	12.941	252	884531	9.744	ug/ml#	92
114)	Benzo(a)pyrene	13.230	252	860473M2	10.106	ug/ml	
116)	Indeno(1,2,3-cd)pyrene	14.275	276	955538M6	10.233	ug/mL	
117)	Dibenzo(a,h)anthracene	14.297	278	901216	10.015	ug/ml#	89
118)	Benzo(ghi)perylene	14.536	276	890171	9.890	ug/ml#	84

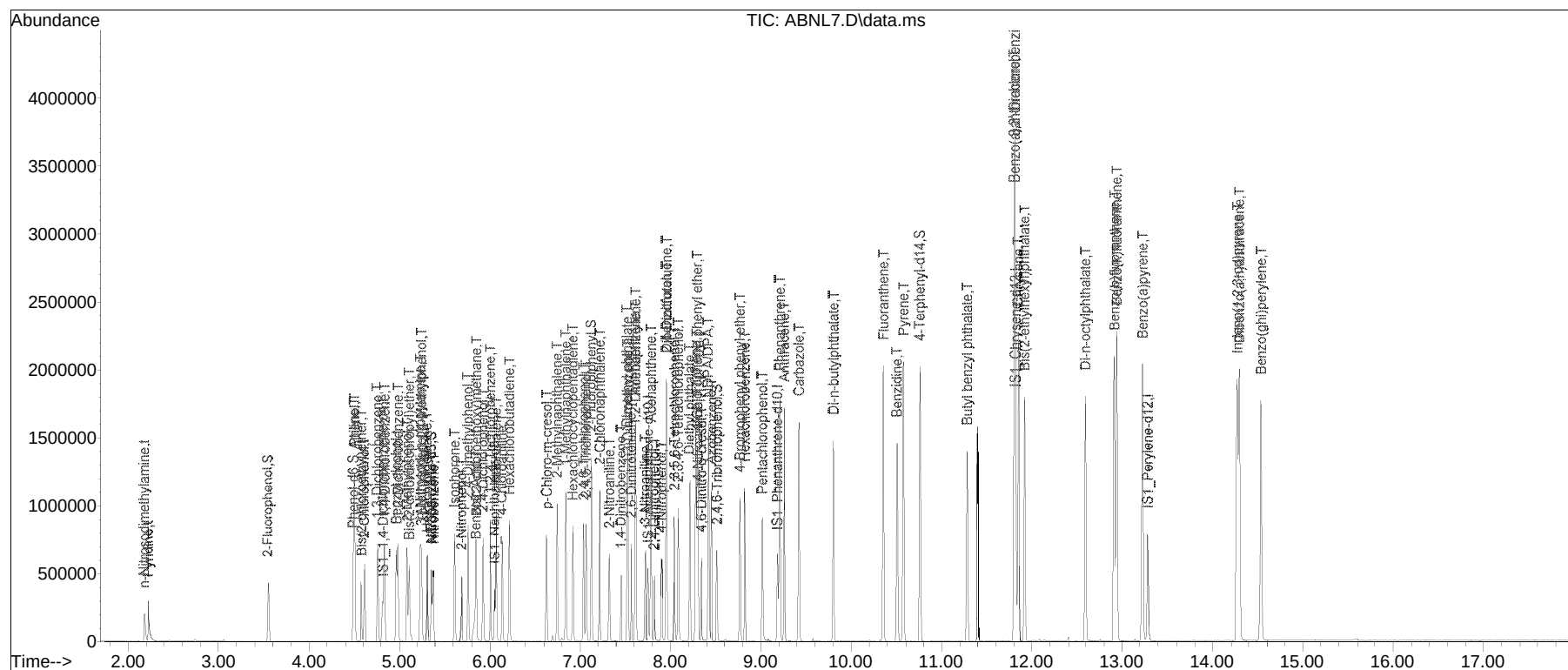
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
Data File : ABNL7.D
Acq On : 16 Apr 2025 6:12 pm
Operator : Dakota:HNY
Sample : IL4,32,,ABNL10 Lot# 11534
Misc : WG2055280
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 17 15:22:05 2025
Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Apr 17 14:28:59 2025
Response via : Initial Calibration

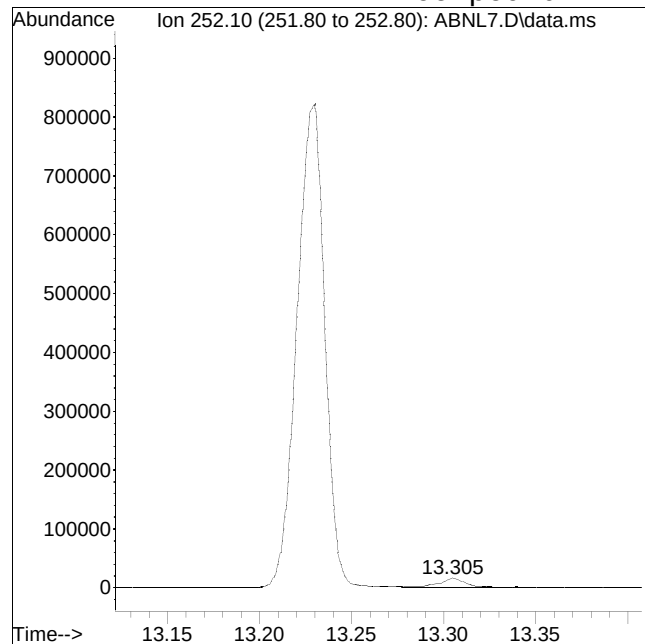
Sub List : ABNITa\8270ABNakoaa\850416RVTICAL\AP9L6.D•



Manual Integration Report

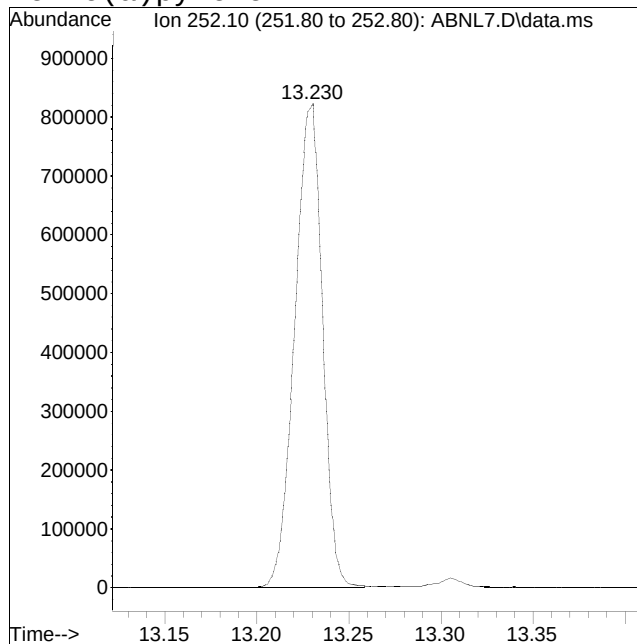
Data Path : I:\8270\Dakota\250416RVTICOM
Data File : ABNL7.D
Date Inj'd : 4/16/2025 6:12 pm
Sample : IL4,32,,ABNL10 Lot# 11534
Method : FS250416RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 4/17/2025 3:23 pm

Compound #114: Benzo(a)pyrene



Original Peak Response = 18235

M2 = Peak not found by automatic integration algorithm.

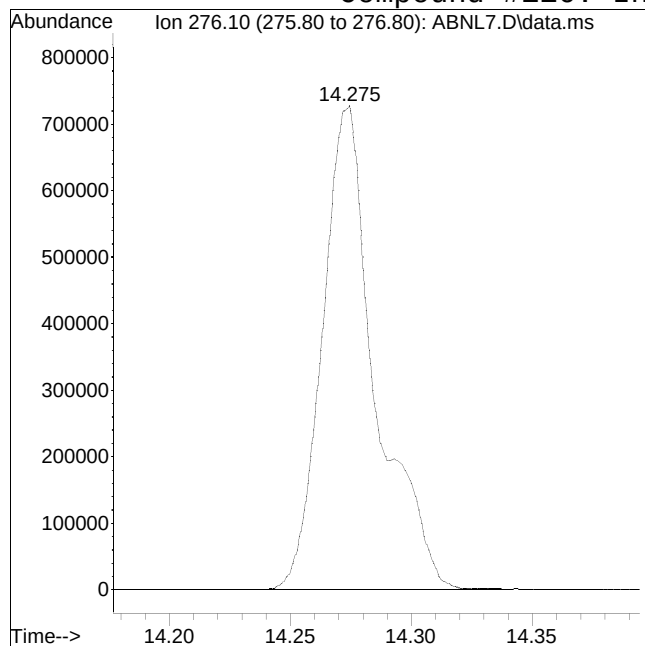


Manual Peak Response = 860473 M2

Manual Integration Report

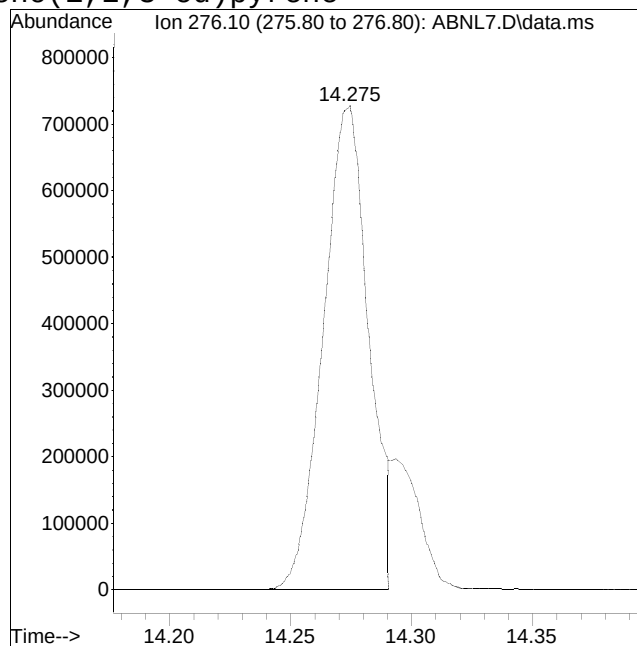
Data Path : I:\8270\Dakota\250416RVTICQ\data.ms
Data File : ABNL7.D
Date Inj'd : 4/16/2025 6:12 pm
Sample : IL4,32,,ABNL10 Lot# 11534
Method : FS250416RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 4/17/2025 3:23 pm

Compound #116: Indeno(1,2,3-cd)pyrene



Original Peak Response = 1112517

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 955538 M6

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNL6.D
 Acq On : 16 Apr 2025 6:35 pm
 Operator : Dakota:HNY
 Sample : IL5,32,,ABNL5 Lot# 11535
 Misc : WG2055280
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 17 15:21:55 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.820	152	38918	4.000	ug/ml	0.00
Standard Area 1 = 38918			Recovery =	100.00%		
37) IS1_Naphthalene-d8	6.054	136	137542	4.000	ug/ml	# 0.00
Standard Area 1 = 137542			Recovery =	100.00%		
65) IS1_Acenaphthene-d10	7.754	164	98079	4.000	ug/ml	0.00
Standard Area 1 = 98079			Recovery =	100.00%		
90) IS1_Phenanthrene-d10	9.184	188	211127	4.000	ug/ml	0.00
Standard Area 1 = 211127			Recovery =	100.00%		
106) IS1_Chrysene-d12	11.819	240	240990	4.000	ug/ml	0.00
Standard Area 1 = 240990			Recovery =	100.00%		
115) IS1_Perylene-d12	13.280	264	282356	4.000	ug/ml	0.00
Standard Area 1 = 282356			Recovery =	100.00%		
System Monitoring Compounds						
4) 2-Fluorophenol	3.549	112	49462	4.950	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	247.50%#		
7) Phenol-d6	4.487	99	62909	5.105	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	255.25%#		
19) Nitrobenzene-d5	5.358	82	66564	5.039	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	503.90%#		
48) 2-Fluorobiphenyl	7.120	172	166240	4.640	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	464.00%#		
81) 2,4,6-Tribromophenol	8.519	330	29574	5.122	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	256.10%#		
98) 4-Terphenyl-d14	10.760	244	271744	4.815	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	481.50%#		
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.184	74	32596	4.887	ug/ml	88
3) Pyridine	2.228	79	55905	4.784	ug/ml#	66
5) Aniline	4.497	93	86595	5.295	ug/ml#	43
6) 2-Chlorophenol	4.612	128	54381	4.917	ug/ml	94
8) Phenol	4.500	94	75313	5.018	ug/ml#	41
9) Bis(2-chloroethyl)ether	4.577	93	46968	4.848	ug/ml	91
10) 1,3-Dichlorobenzene	4.761	146	69417	4.729	ug/ml	93
11) 1,4-Dichlorobenzene	4.835	146	71190	4.704	ug/ml	95
12) 1,2-Dichlorobenzene	4.982	146	67422	4.796	ug/ml	93

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNL6.D
 Acq On : 16 Apr 2025 6:35 pm
 Operator : Dakota:HNY
 Sample : IL5,32,,ABNL5 Lot# 11535
 Misc : WG2055280
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 17 15:21:55 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13)	Benzyl alcohol	4.966	79	47418	4.851	ug/ml	96
14)	Bis(2-chloroisopropyl)...	5.115	45	100850	4.844	ug/ml#	96
15)	2-Methylphenol	5.090	108	49369	5.006	ug/ml	97
16)	Hexachloroethane	5.311	117	25854	4.976	ug/ml#	44
17)	n-Nitrosodi-n-propylamine	5.233	70	44186	5.005	ug/ml#	84
18)	3-Methylphenol/4-Methy...	5.246	108	53297	5.044	ug/ml	99
20)	Nitrobenzene	5.376	77	64189	4.964	ug/ml	94
21)	Isophorone	5.616	82	116049	4.886	ug/ml#	93
22)	2-Nitrophenol	5.690	139	30045	5.264	ug/ml	95
23)	2,4-Dimethylphenol	5.759	107	56367	4.956	ug/ml	98
24)	Bis(2-chloroethoxy)met...	5.849	93	67831	4.848	ug/ml#	94
25)	2,4-Dichlorophenol	5.926	162	58553	4.963	ug/ml#	93
26)	1,2,4-Trichlorobenzene	6.007	180	72576	4.918	ug/ml#	96
38)	Naphthalene	6.072	128	164151	4.658	ug/ml	100
39)	Benzoic Acid	5.824	105	29488	4.678	ug/ml#	84
40)	4-Chloroaniline	6.138	65	23036	4.783	ug/ml	95
41)	Hexachlorobutadiene	6.222	225	41533	4.782	ug/ml	98
42)	p-Chloro-m-cresol	6.629	107	48182	4.923	ug/ml	86
43)	2-Methylnaphthalene	6.750	142	113407	4.952	ug/ml	98
44)	1-Methylnaphthalene	6.843	115	38228	4.912	ug/ml	84
45)	Hexachlorocyclopentadiene	6.921	237	56342	4.804	ug/ml	99
46)	2,4,6-Trichlorophenol	7.033	196	50456	4.971	ug/ml	98
47)	2,4,5-Trichlorophenol	7.064	196	54896	4.874	ug/ml	98
49)	2-Chloronaphthalene	7.216	162	137509	4.767	ug/ml#	89
50)	2-Nitroaniline	7.325	138	36347	4.936	ug/ml	97
51)	1,4-Dinitrobenzene	7.456	168	19024	5.011	ug/ml	89
52)	1,3-Dinitrobenzene	7.530	168	23742	5.126	ug/ml#	1
53)	Dimethyl phthalate	7.524	163	167497	4.815	ug/ml#	97
54)	Acenaphthylene	7.614	152	225605	4.943	ug/ml	99
55)	2,6-Dinitrotoluene	7.567	165	36187	5.199	ug/ml#	76
56)	1,2-Dinitrobenzene	7.608	168	13978	4.837	ug/ml#	1
66)	3-Nitroaniline	7.720	138	35729	5.352	ug/ml#	92
67)	Acenaphthene	7.785	154	122889	4.789	ug/ml	91
68)	2,4-Dinitrophenol	7.822	184	21762	4.719	ug/ml#	80
69)	Dibenzofuran	7.956	168	215445	4.689	ug/ml	88
70)	2,4-Dinitrotoluene	7.953	165	50787	5.173	ug/ml	92
71)	4-Nitrophenol	7.903	65	30842	5.092	ug/ml	92
72)	2,3,5,6-Tetrachlorophenol	8.040	232	49992	5.041	ug/ml	98

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNL6.D
 Acq On : 16 Apr 2025 6:35 pm
 Operator : Dakota:HNY
 Sample : IL5,32,,ABNL5 Lot# 11535
 Misc : WG2055280
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 17 15:21:55 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
73)	2,3,4,6-Tetrachlorophenol	8.083	232	48646	4.994	ug/ml	98
74)	Diethyl phthalate	8.211	149	163800	4.762	ug/ml	99
75)	Fluorene	8.285	166	169871	4.745	ug/ml	93
76)	4-Chlorophenyl phenyl ...	8.301	204	82694	4.459	ug/ml#	83
77)	4-Nitroaniline	8.307	138	38138	5.439	ug/ml	91
78)	4,6-Dinitro-o-cresol	8.345	198	31703	5.220	ug/ml#	62
79)	NDPA/DPA	8.416	169	149645	4.785	ug/ml	95
80)	Azobenzene	8.450	77	152674	4.794	ug/ml	95
82)	4-Bromophenyl phenyl e...	8.770	248	55403	4.729	ug/ml#	76
83)	Hexachlorobenzene	8.823	284	61694	4.512	ug/ml#	80
84)	Pentachlorophenol	9.016	266	39635	4.890	ug/ml	98
91)	Phenanthrene	9.209	178	288219	4.748	ug/ml	99
92)	Anthracene	9.255	178	289088	4.862	ug/ml	98
93)	Carbazole	9.420	167	275870	4.930	ug/ml	100
94)	Di-n-butylphthalate	9.802	149	287020	4.942	ug/ml	98
95)	Fluoranthene	10.355	202	351132	4.909	ug/ml#	91
96)	Benzidine	10.505	184	217528	5.042	ug/ml#	94
97)	Pyrene	10.573	202	378247	4.889	ug/ml	99
99)	Butyl benzyl phthalate	11.282	149	130713	5.186	ug/ml	88
107)	Benzo(a)anthracene	11.810	228	387764	4.901	ug/ml	99
108)	3,3'-Dichlorobenzidine	11.804	252	142136	5.081	ug/ml#	95
109)	Chrysene	11.847	228	360838	4.632	ug/ml	98
110)	Bis(2-ethylhexyl)phtha...	11.919	149	210929	5.295	ug/ml#	94
111)	Di-n-octylphthalate	12.596	149	348386	5.384	ug/ml#	78
112)	Benzo(b)fluoranthene	12.910	252	403177	5.023	ug/ml#	93
113)	Benzo(k)fluoranthene	12.941	252	404620	4.957	ug/ml#	92
114)	Benzo(a)pyrene	13.224	252	384440	5.021	ug/ml#	91
116)	Indeno(1,2,3-cd)pyrene	14.269	276	442537M6	5.046	ug/mL	
117)	Dibenzo(a,h)anthracene	14.293	278	410488	4.857	ug/ml#	89
118)	Benzo(ghi)perylene	14.533	276	404267	4.782	ug/ml#	85

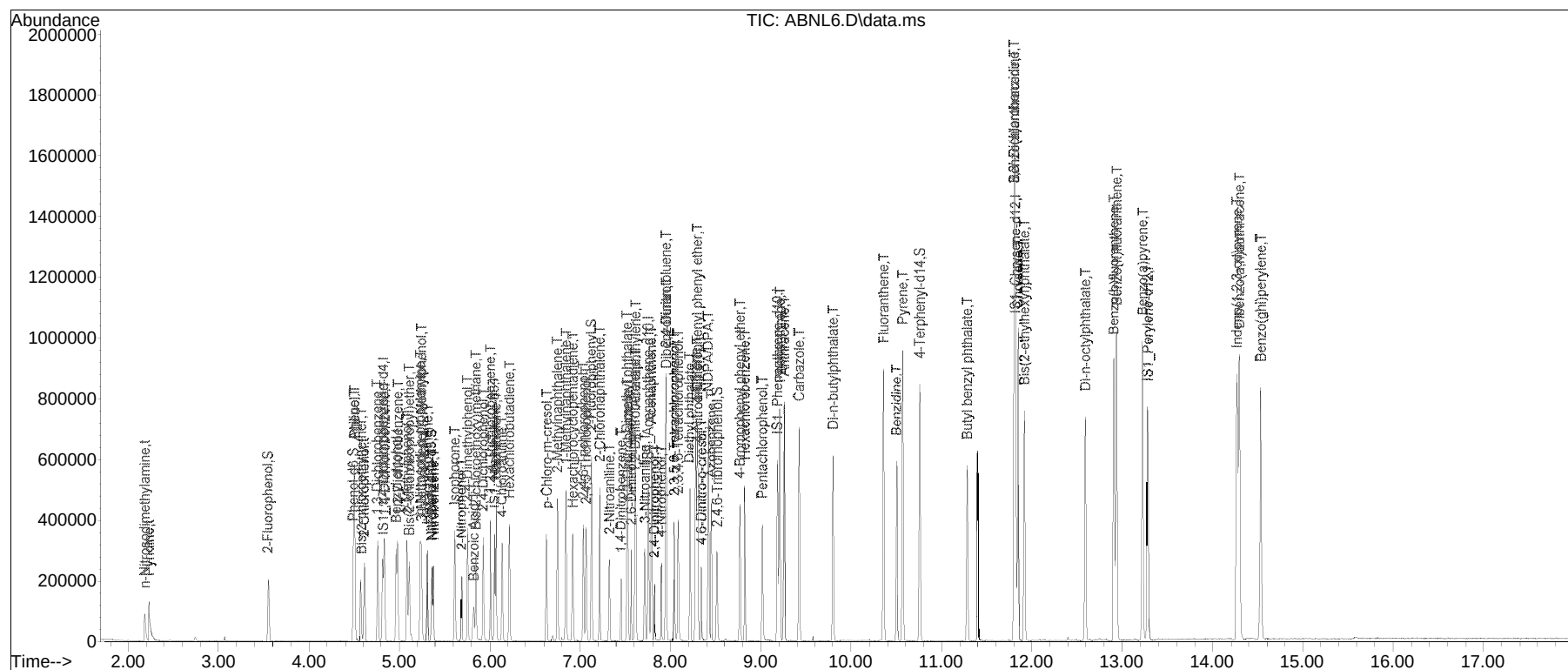
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNL6.D
 Acq On : 16 Apr 2025 6:35 pm
 Operator : Dakota:HNY
 Sample : IL5,32,,ABNL5 Lot# 11535
 Misc : WG2055280
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 17 15:21:55 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

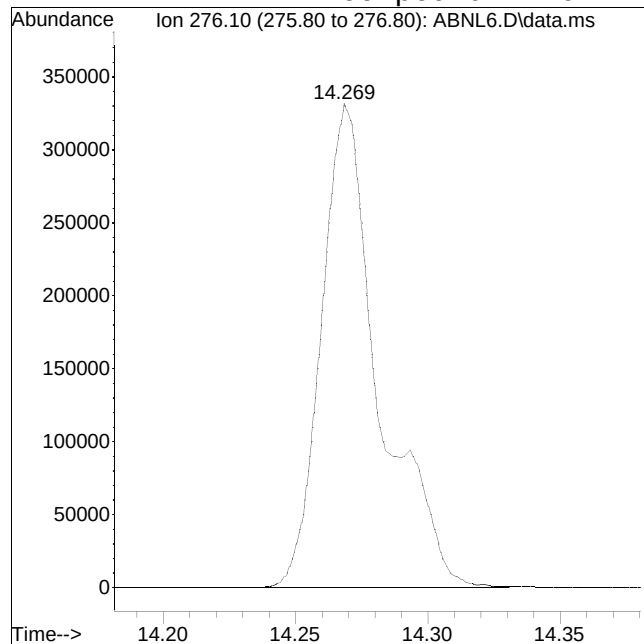
Sub List : ~~ABNL6.D~~ I:\8270\Dakota\250416RVTICAL\AP9L6.D•



Manual Integration Report

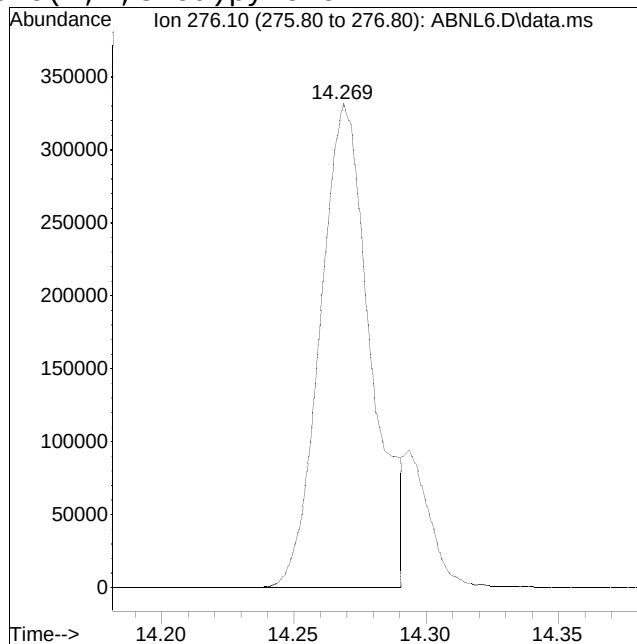
Data Path : I:\8270\Dakota\250416RVTICOM
Data File : ABNL6.D
Date Inj'd : 4/16/2025 6:35 pm
Sample : IL5,32,,ABNL5 Lot# 11535
Method : FS250416RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 4/17/2025 3:22 pm

Compound #116: Indeno(1,2,3-cd)pyrene



Original Peak Response = 502714

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 442537 M6

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNL5.D
 Acq On : 16 Apr 2025 6:57 pm
 Operator : Dakota:HNY
 Sample : IL6,32,,ABNL2.5 Lot# 11536
 Misc : WG2055280
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 17 15:21:46 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.817	152	42421	4.000	ug/ml	0.00
Standard Area 1 = 38918			Recovery =	109.00%		
37) IS1_Naphthalene-d8	6.054	136	143709	4.000	ug/ml	# 0.00
Standard Area 1 = 137542			Recovery =	104.48%		
65) IS1_Acenaphthene-d10	7.754	164	100655	4.000	ug/ml	0.00
Standard Area 1 = 98079			Recovery =	102.63%		
90) IS1_Phenanthrene-d10	9.184	188	217515	4.000	ug/ml	0.00
Standard Area 1 = 211127			Recovery =	103.03%		
106) IS1_Chrysene-d12	11.819	240	250261	4.000	ug/ml	0.00
Standard Area 1 = 240990			Recovery =	103.85%		
115) IS1_Perylene-d12	13.283	264	283335	4.000	ug/ml	0.00
Standard Area 1 = 282356			Recovery =	100.35%		
System Monitoring Compounds						
4) 2-Fluorophenol	3.549	112	24642	2.263	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	113.15%#		
7) Phenol-d6	4.487	99	33141	2.467	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	123.35%#		
19) Nitrobenzene-d5	5.357	82	34807	2.417	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	241.70%#		
48) 2-Fluorobiphenyl	7.120	172	92944	2.483	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	248.30%#		
81) 2,4,6-Tribromophenol	8.515	330	15028	2.536	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	126.80%#		
98) 4-Terphenyl-d14	10.759	244	140716	2.420	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	242.00%#		
Target Compounds						
						Qvalue
2) n-Nitrosodimethylamine	2.181	74	17178	2.363	ug/ml#	97
3) Pyridine	2.234	79	30604	2.403	ug/ml#	64
5) Aniline	4.496	93	44913	2.520	ug/ml#	43
6) 2-Chlorophenol	4.611	128	28440	2.359	ug/ml	93
8) Phenol	4.500	94	38168	2.333	ug/ml#	38
9) Bis(2-chloroethyl)ether	4.577	93	25772	2.440	ug/ml	96
10) 1,3-Dichlorobenzene	4.761	146	36926	2.308	ug/ml	93
11) 1,4-Dichlorobenzene	4.835	146	37975	2.302	ug/ml	93
12) 1,2-Dichlorobenzene	4.981	146	36135	2.358	ug/ml	93

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNL5.D
 Acq On : 16 Apr 2025 6:57 pm
 Operator : Dakota:HNY
 Sample : IL6,32,,ABNL2.5 Lot# 11536
 Misc : WG2055280
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 17 15:21:46 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13)	Benzyl alcohol	4.963	79	25379	2.382	ug/ml	95
14)	Bis(2-chloroisopropyl)...	5.115	45	53631	2.363	ug/ml	98
15)	2-Methylphenol	5.090	108	25973	2.416	ug/ml	98
16)	Hexachloroethane	5.308	117	13261	2.341	ug/ml#	43
17)	n-Nitrosodi-n-propylamine	5.233	70	23862	2.480	ug/ml#	84
18)	3-Methylphenol/4-Methy...	5.246	108	27966	2.428	ug/ml	98
20)	Nitrobenzene	5.376	77	34243	2.429	ug/ml	92
21)	Isophorone	5.615	82	61302	2.368	ug/ml#	93
22)	2-Nitrophenol	5.690	139	15507	2.492	ug/ml	96
23)	2,4-Dimethylphenol	5.758	107	31224	2.519	ug/ml	92
24)	Bis(2-chloroethoxy)met...	5.848	93	36723	2.408	ug/ml#	95
25)	2,4-Dichlorophenol	5.926	162	31107	2.419	ug/ml#	90
26)	1,2,4-Trichlorobenzene	6.007	180	38302	2.381	ug/ml#	94
38)	Naphthalene	6.072	128	87284	2.371	ug/ml	99
39)	Benzoic Acid	5.814	105	11690	2.666	ug/ml#	74
40)	4-Chloroaniline	6.138	65	12680	2.520	ug/ml	98
41)	Hexachlorobutadiene	6.221	225	21856	2.408	ug/ml	95
42)	p-Chloro-m-cresol	6.629	107	25712	2.514	ug/ml	95
43)	2-Methylnaphthalene	6.750	142	59422	2.483	ug/ml	97
44)	1-Methylnaphthalene	6.843	115	20053	2.466	ug/ml	86
45)	Hexachlorocyclopentadiene	6.921	237	29784	2.430	ug/ml	99
46)	2,4,6-Trichlorophenol	7.033	196	25845	2.437	ug/ml	98
47)	2,4,5-Trichlorophenol	7.061	196	28945	2.459	ug/ml	99
49)	2-Chloronaphthalene	7.216	162	72943	2.420	ug/ml#	90
50)	2-Nitroaniline	7.322	138	19228	2.499	ug/ml	94
51)	1,4-Dinitrobenzene	7.455	168	10420	2.627	ug/ml	88
52)	1,3-Dinitrobenzene	7.530	168	11677	2.413	ug/ml#	1
53)	Dimethyl phthalate	7.521	163	90039	2.477	ug/ml#	97
54)	Acenaphthylene	7.614	152	119634	2.509	ug/ml	99
55)	2,6-Dinitrotoluene	7.564	165	17902	2.461	ug/ml#	82
56)	1,2-Dinitrobenzene	7.608	168	7225	2.393	ug/ml#	1
66)	3-Nitroaniline	7.720	138	17062	2.490	ug/ml	99
67)	Acenaphthene	7.785	154	64669	2.456	ug/ml	89
68)	2,4-Dinitrophenol	7.819	184	10637	2.392	ug/ml#	81
69)	Dibenzofuran	7.953	168	115168	2.442	ug/ml#	87
70)	2,4-Dinitrotoluene	7.953	165	26841	2.664	ug/ml	90
71)	4-Nitrophenol	7.903	65	15857	2.551	ug/ml	94
72)	2,3,5,6-Tetrachlorophenol	8.043	232	25780	2.533	ug/ml	96

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNL5.D
 Acq On : 16 Apr 2025 6:57 pm
 Operator : Dakota:HNY
 Sample : IL6,32,,ABNL2.5 Lot# 11536
 Misc : WG2055280
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 17 15:21:46 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
73)	2,3,4,6-Tetrachlorophenol	8.083	232	23513	2.352	ug/ml	96
74)	Diethyl phthalate	8.211	149	87650	2.483	ug/ml	100
75)	Fluorene	8.285	166	92013	2.505	ug/ml	95
76)	4-Chlorophenyl phenyl ...	8.304	204	46990	2.469	ug/ml#	82
77)	4-Nitroaniline	8.307	138	19560	2.718	ug/ml	88
78)	4,6-Dinitro-o-cresol	8.344	198	13832	2.219	ug/ml#	63
79)	NDPA/DPA	8.416	169	81568	2.541	ug/ml	94
80)	Azobenzene	8.450	77	82336	2.519	ug/ml	97
82)	4-Bromophenyl phenyl e...	8.770	248	29060	2.417	ug/ml#	78
83)	Hexachlorobenzene	8.823	284	33185	2.365	ug/ml#	81
84)	Pentachlorophenol	9.013	266	19810	2.381	ug/ml	99
91)	Phenanthrene	9.205	178	152575	2.439	ug/ml	99
92)	Anthracene	9.255	178	153936	2.513	ug/ml	99
93)	Carbazole	9.420	167	143480	2.489	ug/ml	99
94)	Di-n-butylphthalate	9.805	149	146426	2.447	ug/ml	98
95)	Fluoranthene	10.358	202	181845	2.468	ug/ml#	91
96)	Benzidine	10.504	184	108590	2.443	ug/ml#	92
97)	Pyrene	10.573	202	198150	2.486	ug/ml	100
99)	Butyl benzyl phthalate	11.285	149	65550	2.524	ug/ml	87
107)	Benzo(a)anthracene	11.810	228	204934	2.494	ug/ml	99
108)	3,3'-Dichlorobenzidine	11.804	252	73806	2.541	ug/ml#	97
109)	Chrysene	11.844	228	193677	2.394	ug/ml	98
110)	Bis(2-ethylhexyl)phtha...	11.919	149	106495	2.574	ug/ml#	94
111)	Di-n-octylphthalate	12.596	149	174186	2.592	ug/ml#	78
112)	Benzo(b)fluoranthene	12.913	252	208800	2.505	ug/ml#	92
113)	Benzo(k)fluoranthene	12.938	252	211767	2.498	ug/ml#	93
114)	Benzo(a)pyrene	13.224	252	194979	2.452	ug/ml#	92
116)	Indeno(1,2,3-cd)pyrene	14.268	276	219389M6	2.493	ug/mL	
117)	Dibenzo(a,h)anthracene	14.293	278	213649	2.519	ug/ml#	89
118)	Benzo(ghi)perylene	14.529	276	207802	2.450	ug/ml#	85

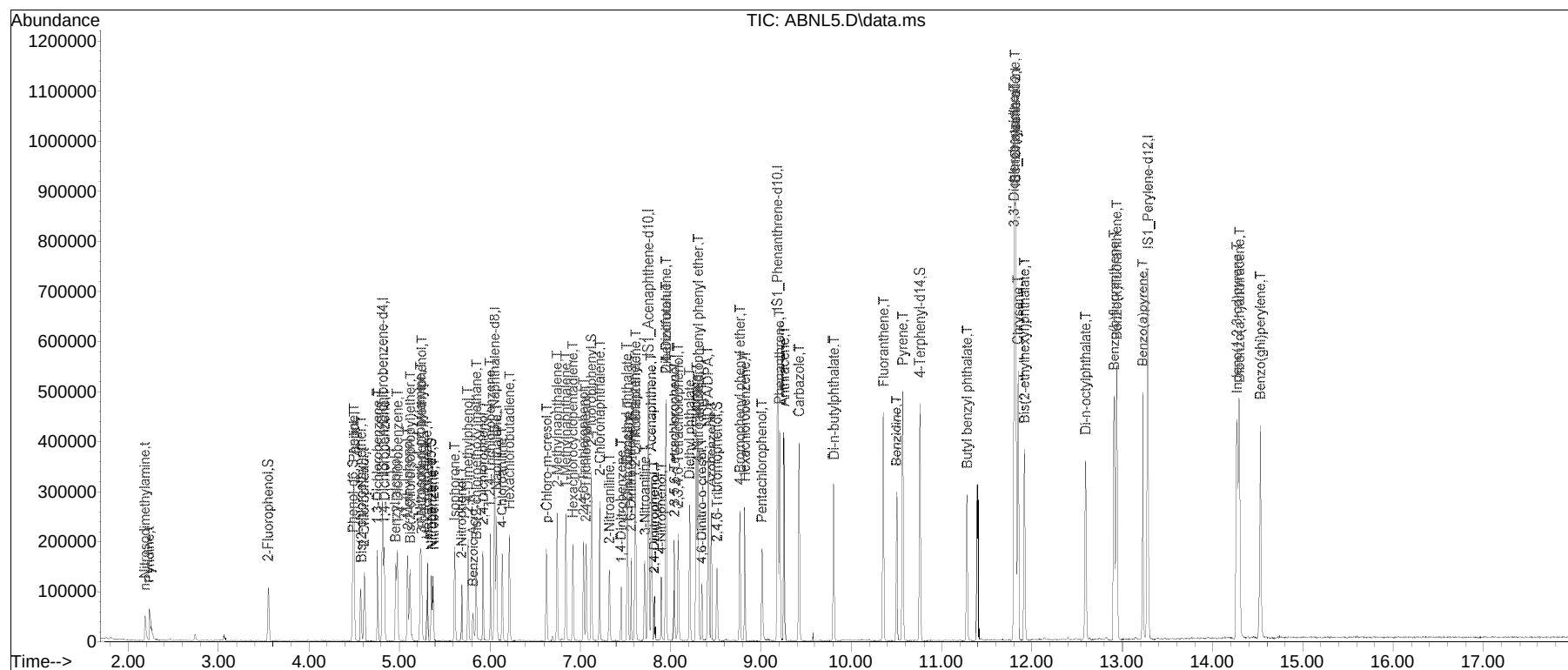
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
Data File : ABNL5.D
Acq On : 16 Apr 2025 6:57 pm
Operator : Dakota:HNY
Sample : IL6,32,,ABNL2.5 Lot# 11536
Misc : WG2055280
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 17 15:21:46 2025
Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Apr 17 14:28:59 2025
Response via : Initial Calibration

Sub List : ABNITa\8270ABNakoaa\850416RVTICAL\AP9L6.D•

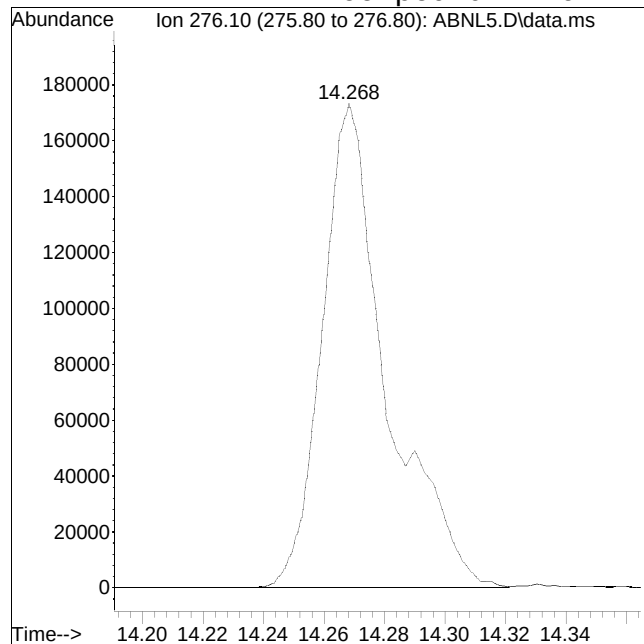


Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICOM
Data File : ABNL5.D
Date Inj'd : 4/16/2025 6:57 pm
Sample : IL6,32,,ABNL2.5 Lot# 11536

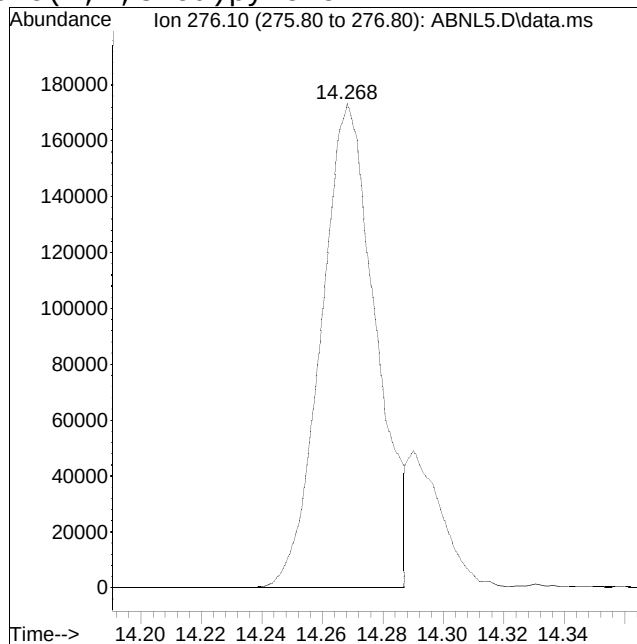
Method : FS250416RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 4/17/2025 3:22 pm

Compound #116: Indeno(1,2,3-cd)pyrene



Original Peak Response = 255454

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 219389 M6

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNL4.D
 Acq On : 16 Apr 2025 7:19 pm
 Operator : Dakota:HNY
 Sample : IL7,32,,ABNL1 Lot# 11537
 Misc : WG2055280
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 17 15:21:36 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.817	152	39846	4.000	ug/ml	0.00
Standard Area 1 = 38918			Recovery =	102.38%		
37) IS1_Naphthalene-d8	6.054	136	138974	4.000	ug/ml	# 0.00
Standard Area 1 = 137542			Recovery =	101.04%		
65) IS1_Acenaphthene-d10	7.754	164	96006	4.000	ug/ml	0.00
Standard Area 1 = 98079			Recovery =	97.89%		
90) IS1_Phenanthrene-d10	9.184	188	203674	4.000	ug/ml	0.00
Standard Area 1 = 211127			Recovery =	96.47%		
106) IS1_Chrysene-d12	11.819	240	234209	4.000	ug/ml	0.00
Standard Area 1 = 240990			Recovery =	97.19%		
115) IS1_Perylene-d12	13.280	264	272944	4.000	ug/ml	0.00
Standard Area 1 = 282356			Recovery =	96.67%		
System Monitoring Compounds						
4) 2-Fluorophenol	3.549	112	10150	0.992	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	49.60%		
7) Phenol-d6	4.487	99	13312	1.055	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	52.75%		
19) Nitrobenzene-d5	5.357	82	13439	0.994	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	99.40%		
48) 2-Fluorobiphenyl	7.120	172	36947	1.021	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	102.10%		
81) 2,4,6-Tribromophenol	8.515	330	5168	0.914	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	45.70%		
98) 4-Terphenyl-d14	10.759	244	52915	0.972	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	97.20%		
Target Compounds						
2) n-Nitrosodimethylamine	2.187	74	7992	1.170	ug/ml#	84
3) Pyridine	2.256	79	12485M1	1.044	ug/ml	
5) Aniline	4.500	93	17914	1.070	ug/ml#	41
6) 2-Chlorophenol	4.612	128	10880	0.961	ug/ml	97
8) Phenol	4.500	94	15854	1.032	ug/ml#	41
9) Bis(2-chloroethyl)ether	4.577	93	10198	1.028	ug/ml#	84
10) 1,3-Dichlorobenzene	4.764	146	14719	0.979	ug/ml	94
11) 1,4-Dichlorobenzene	4.835	146	15534	1.003	ug/ml	93
12) 1,2-Dichlorobenzene	4.978	146	15292	1.062	ug/ml	93

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNL4.D
 Acq On : 16 Apr 2025 7:19 pm
 Operator : Dakota:HNY
 Sample : IL7,32,,ABNL1 Lot# 11537
 Misc : WG2055280
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 17 15:21:36 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13)	Benzyl alcohol	4.966	79	9792	0.978	ug/ml	93
14)	Bis(2-chloroisopropyl)...	5.115	45	21592	1.013	ug/ml#	97
15)	2-Methylphenol	5.093	108	10122	1.002	ug/ml	89
16)	Hexachloroethane	5.311	117	5443	1.023	ug/ml#	38
17)	n-Nitrosodi-n-propylamine	5.233	70	9656	1.068	ug/ml#	82
18)	3-Methylphenol/4-Methy...	5.246	108	11175	1.033	ug/ml	95
20)	Nitrobenzene	5.376	77	13332	1.007	ug/ml	94
21)	Isophorone	5.615	82	24056	0.989	ug/ml#	89
22)	2-Nitrophenol	5.690	139	5679	0.972	ug/ml	96
23)	2,4-Dimethylphenol	5.758	107	11539	0.991	ug/ml	98
24)	Bis(2-chloroethoxy)met...	5.849	93	14031	0.979	ug/ml#	95
25)	2,4-Dichlorophenol	5.926	162	12460	1.032	ug/ml#	90
26)	1,2,4-Trichlorobenzene	6.007	180	15573	1.031	ug/ml#	96
38)	Naphthalene	6.072	128	34610	0.972	ug/ml#	97
39)	Benzoic Acid	5.814	105	3825M1	1.852	ug/ml	
40)	4-Chloroaniline	6.141	65	5571	1.145	ug/ml	89
41)	Hexachlorobutadiene	6.222	225	9136	1.041	ug/ml	95
42)	p-Chloro-m-cresol	6.632	107	10100	1.021	ug/ml	94
43)	2-Methylnaphthalene	6.750	142	23148	1.000	ug/ml	97
44)	1-Methylnaphthalene	6.843	115	7899	1.004	ug/ml	74
45)	Hexachlorocyclopentadiene	6.921	237	11354	0.958	ug/ml	96
46)	2,4,6-Trichlorophenol	7.033	196	10337	1.008	ug/ml	95
47)	2,4,5-Trichlorophenol	7.064	196	10814	0.950	ug/ml	98
49)	2-Chloronaphthalene	7.216	162	29306	1.005	ug/ml#	91
50)	2-Nitroaniline	7.322	138	6639	0.892	ug/ml	93
51)	1,4-Dinitrobenzene	7.455	168	3872	1.009	ug/ml	81
52)	1,3-Dinitrobenzene	7.527	168	4188	0.895	ug/ml#	1
53)	Dimethyl phthalate	7.521	163	34454	0.980	ug/ml#	96
54)	Acenaphthylene	7.614	152	46173	1.001	ug/ml	98
55)	2,6-Dinitrotoluene	7.564	165	6840	0.973	ug/ml#	84
56)	1,2-Dinitrobenzene	7.608	168	3090	1.058	ug/ml#	1
66)	3-Nitroaniline	7.720	138	5973	0.914	ug/ml	96
67)	Acenaphthene	7.785	154	26152	1.041	ug/ml	92
68)	2,4-Dinitrophenol	7.825	184	3015	0.860	ug/ml#	80
69)	Dibenzofuran	7.956	168	45235	1.006	ug/ml	90
70)	2,4-Dinitrotoluene	7.950	165	9630	1.002	ug/ml	90
71)	4-Nitrophenol	7.900	65	5890	0.993	ug/ml	93
72)	2,3,5,6-Tetrachlorophenol	8.040	232	8681	0.894	ug/ml	93

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNL4.D
 Acq On : 16 Apr 2025 7:19 pm
 Operator : Dakota:HNY
 Sample : IL7,32,,ABNL1 Lot# 11537
 Misc : WG2055280
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 17 15:21:36 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
73)	2,3,4,6-Tetrachlorophenol	8.083	232	10151	1.065	ug/ml	90
74)	Diethyl phthalate	8.211	149	33280	0.988	ug/ml	99
75)	Fluorene	8.285	166	35235	1.006	ug/ml	92
76)	4-Chlorophenyl phenyl ...	8.301	204	17860	0.984	ug/ml#	80
77)	4-Nitroaniline	8.304	138	6831	0.995	ug/ml#	90
78)	4,6-Dinitro-o-cresol	8.344	198	4574	0.769	ug/ml#	67
79)	NDPA/DPA	8.416	169	30669	1.002	ug/ml	95
80)	Azobenzene	8.453	77	31091	0.997	ug/ml	95
82)	4-Bromophenyl phenyl e...	8.770	248	11651	1.016	ug/ml#	75
83)	Hexachlorobenzene	8.823	284	13057	0.976	ug/ml#	83
84)	Pentachlorophenol	9.013	266	6226	0.785	ug/ml	97
91)	Phenanthrene	9.205	178	62041	1.059	ug/ml	98
92)	Anthracene	9.255	178	59219	1.032	ug/ml	99
93)	Carbazole	9.420	167	55688	1.032	ug/ml	99
94)	Di-n-butylphthalate	9.802	149	52682	0.940	ug/ml#	98
95)	Fluoranthene	10.355	202	69301	1.004	ug/ml#	91
96)	Benzidine	10.504	184	36421	0.875	ug/ml#	94
97)	Pyrene	10.573	202	75531	1.012	ug/ml	99
99)	Butyl benzyl phthalate	11.285	149	22238	0.915	ug/ml	90
107)	Benzo(a)anthracene	11.810	228	75707	0.985	ug/ml	99
108)	3,3'-Dichlorobenzidine	11.807	252	26448	0.973	ug/ml#	93
109)	Chrysene	11.844	228	76799	1.014	ug/ml	98
110)	Bis(2-ethylhexyl)phtha...	11.922	149	34301	0.886	ug/ml#	94
111)	Di-n-octylphthalate	12.593	149	55455	0.882	ug/ml#	80
112)	Benzo(b)fluoranthene	12.913	252	78382	1.005	ug/ml#	93
113)	Benzo(k)fluoranthene	12.938	252	83481	1.052	ug/ml#	94
114)	Benzo(a)pyrene	13.224	252	77726	1.045	ug/ml#	92
116)	Indeno(1,2,3-cd)pyrene	14.265	276	85092M6	1.004	ug/mL	
117)	Dibenzo(a,h)anthracene	14.290	278	83308	1.020	ug/ml#	88
118)	Benzo(ghi)perylene	14.529	276	83529	1.022	ug/ml#	83

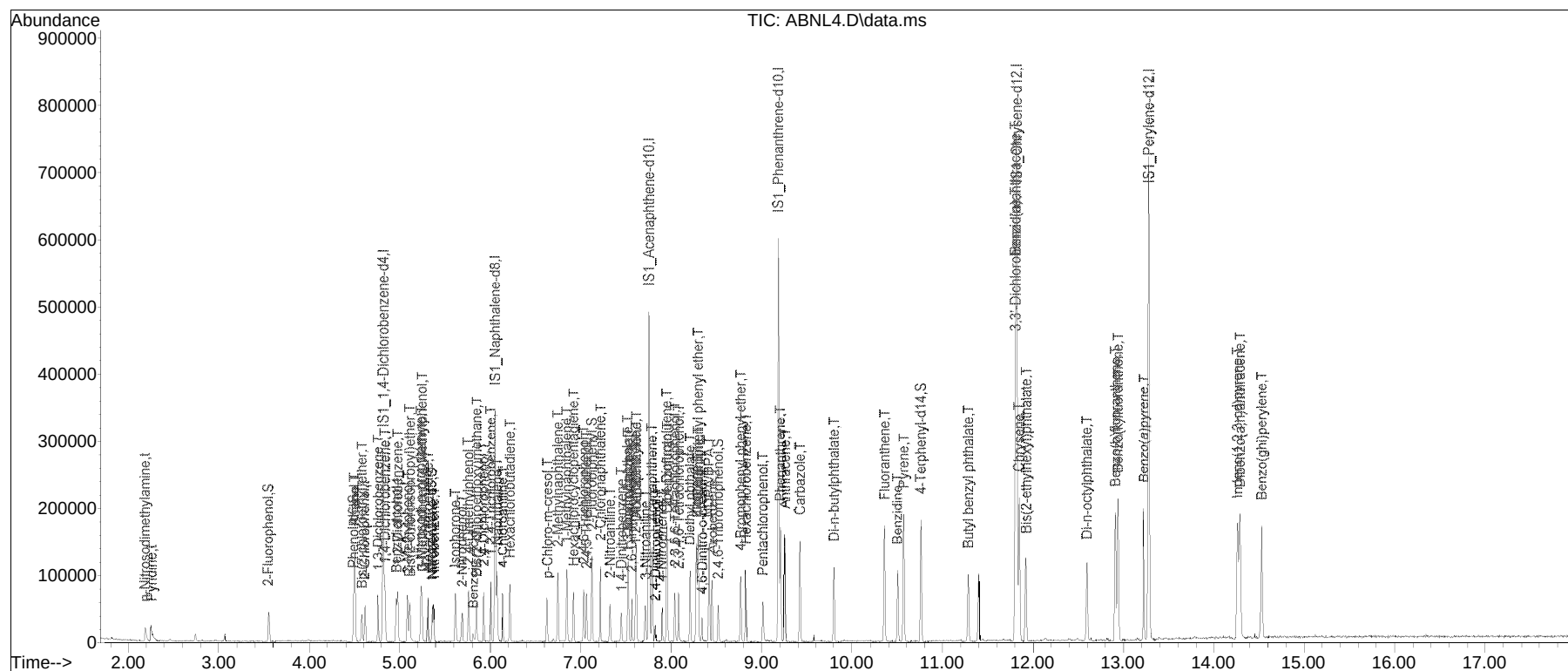
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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Data Path : I:\8270\Dakota\250416RVTICAL\
Data File : ABNL4.D
Acq On    : 16 Apr 2025    7:19 pm
Operator  : Dakota:HNY
Sample    : IL7,32,,ABNL1 Lot# 11537
Misc      : WG2055280
ALS Vial  : 6    Sample Multiplier: 1
```

Quant Time: Apr 17 15:21:36 2025
Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Apr 17 14:28:59 2025
Response via : Initial Calibration

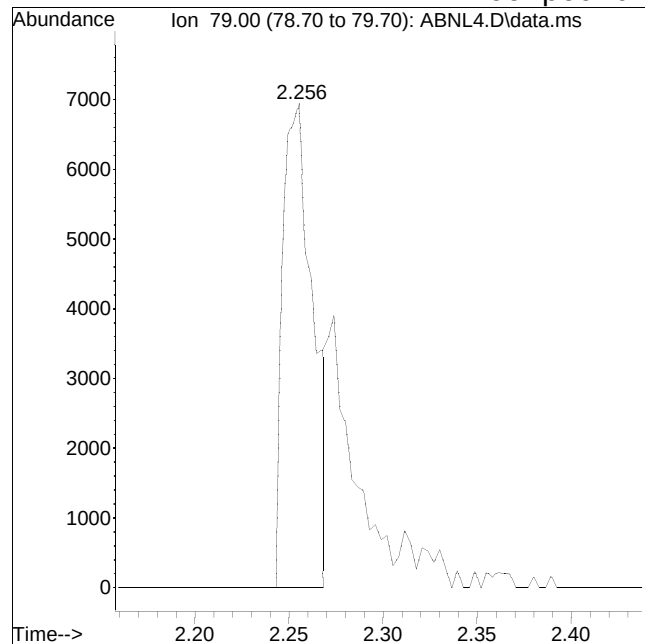
Sub List : ABNITa\8270ABNakoaa\850416RVTICAL\AP9L6.D•



Manual Integration Report

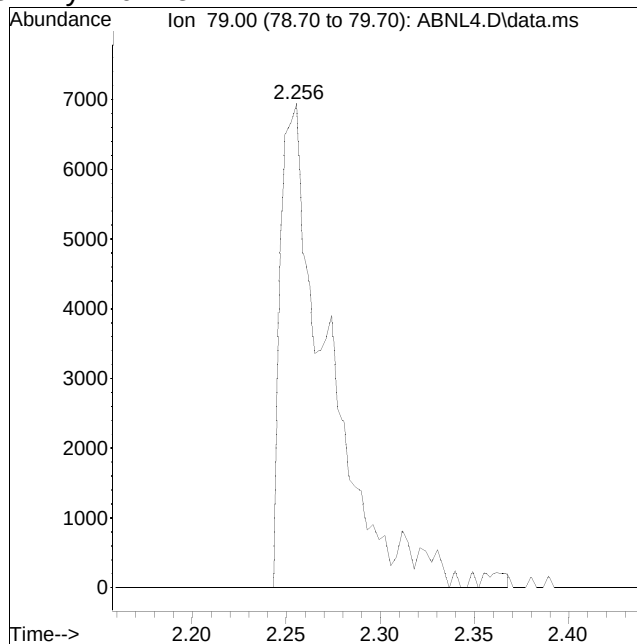
Data Path : I:\8270\Dakota\250416RVTICOM
Data File : ABNL4.D
Date Inj'd : 4/16/2025 7:19 pm
Sample : IL7,32,,ABNL1 Lot# 11537
Method : FS250416RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 4/17/2025 3:22 pm

Compound #3: Pyridine



Original Peak Response = 7592

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.



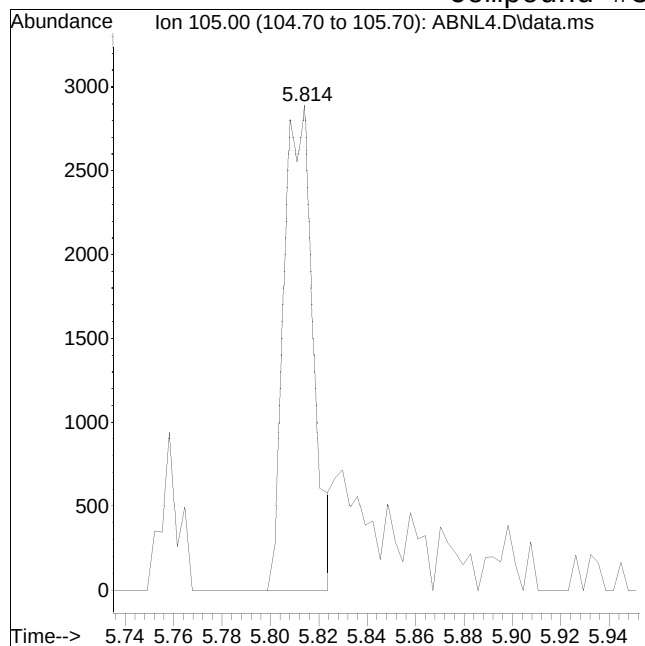
Manual Peak Response = 12485 M1

Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQ1
Data File : ABNL4.D
Date Inj'd : 4/16/2025 7:19 pm
Sample : IL7,32,,ABNL1 Lot# 11537

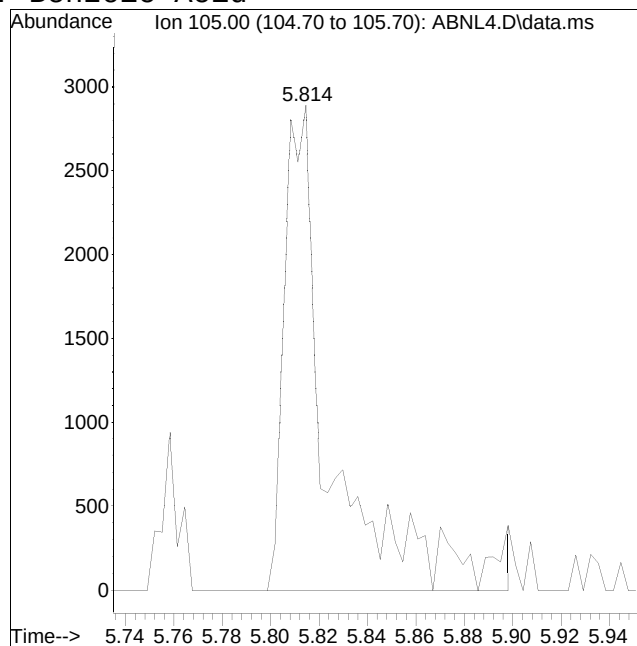
Method : FS250416RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 4/17/2025 3:22 pm

Compound #39: Benzoic Acid



Original Peak Response = 2402

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

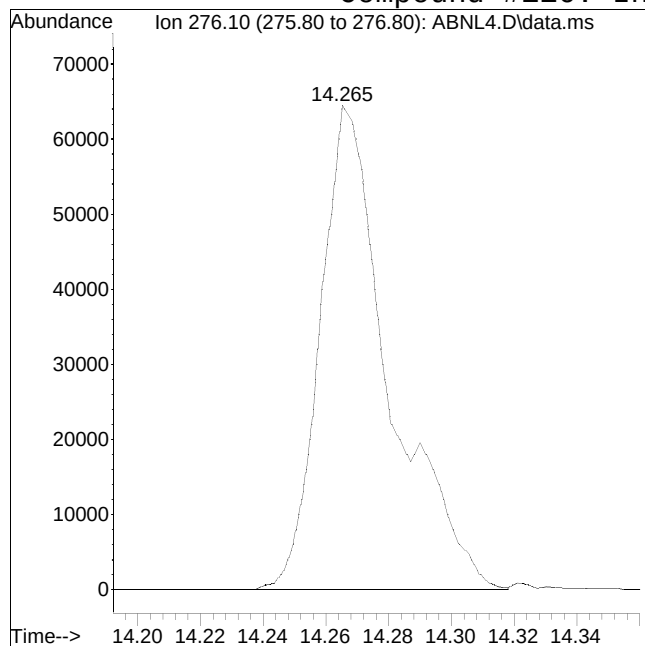


Manual Peak Response = 3825 M1

Manual Integration Report

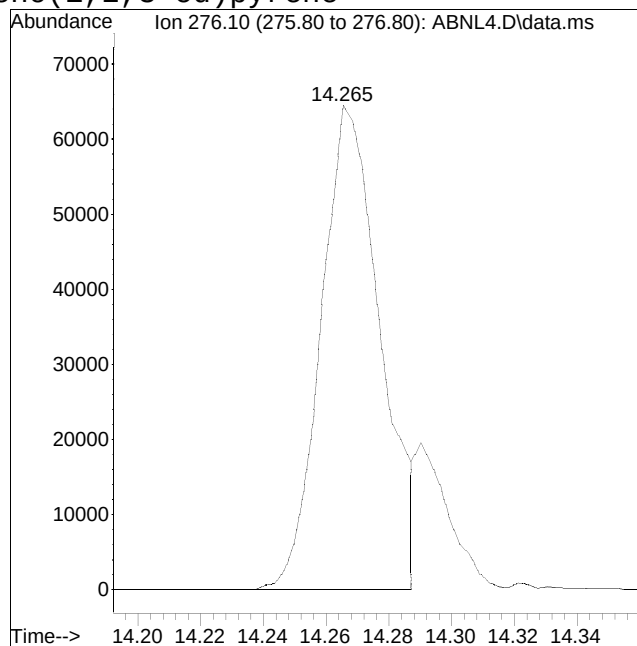
Data Path : I:\8270\Dakota\250416RVTICQ\data.ms
Data File : ABNL4.D
Date Inj'd : 4/16/2025 7:19 pm
Sample : IL7,32,,ABNL1 Lot# 11537
Method : FS250416RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 4/17/2025 3:22 pm

Compound #116: Indeno(1,2,3-cd)pyrene



Original Peak Response = 98964

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 85092 M6

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNL3.D
 Acq On : 16 Apr 2025 7:42 pm
 Operator : Dakota:HNY
 Sample : IL8,32,,ABNL0.5 Lot# 11538
 Misc : WG2055280
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 17 15:21:28 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.820	152	41311	4.000	ug/ml	0.00
Standard Area 1 = 38918			Recovery =	106.15%		
37) IS1_Naphthalene-d8	6.054	136	142776	4.000	ug/ml	# 0.00
Standard Area 1 = 137542			Recovery =	103.81%		
65) IS1_Acenaphthene-d10	7.754	164	98955	4.000	ug/ml	0.00
Standard Area 1 = 98079			Recovery =	100.89%		
90) IS1_Phenanthrene-d10	9.184	188	212101	4.000	ug/ml	0.00
Standard Area 1 = 211127			Recovery =	100.46%		
106) IS1_Chrysene-d12	11.819	240	236971	4.000	ug/ml	0.00
Standard Area 1 = 240990			Recovery =	98.33%		
115) IS1_Perylene-d12	13.283	264	274035	4.000	ug/ml	0.00
Standard Area 1 = 282356			Recovery =	97.05%		
System Monitoring Compounds						
4) 2-Fluorophenol	3.549	112	5642	0.532	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	26.60%		
7) Phenol-d6	4.487	99	6171	0.472	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	23.60%		
19) Nitrobenzene-d5	5.358	82	6816	0.486	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	48.60%		
48) 2-Fluorobiphenyl	7.117	172	18928	0.509	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	50.90%		
81) 2,4,6-Tribromophenol	8.515	330	3096	0.531	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	26.55%		
98) 4-Terphenyl-d14	10.759	244	28401	0.501	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	50.10%		
Target Compounds						
2) n-Nitrosodimethylamine	2.190	74	3863	0.546	ug/ml#	93
3) Pyridine	2.262	79	6945M1	0.560	ug/ml	
5) Aniline	4.500	93	9520	0.548	ug/ml#	52
6) 2-Chlorophenol	4.612	128	6319	0.538	ug/ml	95
8) Phenol	4.500	94	8581	0.539	ug/ml#	53
9) Bis(2-chloroethyl)ether	4.577	93	5994	0.583	ug/ml	96
10) 1,3-Dichlorobenzene	4.761	146	8701M3	0.558	ug/ml	
11) 1,4-Dichlorobenzene	4.832	146	8496	0.529	ug/ml	99
12) 1,2-Dichlorobenzene	4.981	146	7621	0.511	ug/ml	95

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNL3.D
 Acq On : 16 Apr 2025 7:42 pm
 Operator : Dakota:HNY
 Sample : IL8,32,,ABNL0.5 Lot# 11538
 Misc : WG2055280
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 17 15:21:28 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13)	Benzyl alcohol	4.966	79	4596	0.443	ug/ml	91
14)	Bis(2-chloroisopropyl)...	5.115	45	11410	0.516	ug/ml#	97
15)	2-Methylphenol	5.090	108	5631	0.538	ug/ml	95
16)	Hexachloroethane	5.308	117	3054	0.554	ug/ml#	52
17)	n-Nitrosodi-n-propylamine	5.233	70	4631	0.494	ug/ml#	81
18)	3-Methylphenol/4-Methy...	5.243	108	5475	0.488	ug/ml#	96
20)	Nitrobenzene	5.376	77	7155	0.521	ug/ml	96
21)	Isophorone	5.619	82	12639	0.501	ug/ml#	92
22)	2-Nitrophenol	5.690	139	2806	0.463	ug/ml	92
23)	2,4-Dimethylphenol	5.758	107	5789	0.479	ug/ml	97
24)	Bis(2-chloroethoxy)met...	5.849	93	7911	0.533	ug/ml#	91
25)	2,4-Dichlorophenol	5.926	162	6232	0.498	ug/ml#	89
26)	1,2,4-Trichlorobenzene	6.007	180	8234	0.526	ug/ml	98
38)	Naphthalene	6.072	128	19615	0.536	ug/ml	98
39)	Benzoic Acid	5.811	105	1522M1	1.597	ug/ml	
40)	4-Chloroaniline	6.138	65	2606	0.521	ug/ml	99
41)	Hexachlorobutadiene	6.222	225	5107	0.566	ug/ml	94
42)	p-Chloro-m-cresol	6.626	107	5283	0.520	ug/ml	97
43)	2-Methylnaphthalene	6.747	142	12582	0.529	ug/ml	99
44)	1-Methylnaphthalene	6.843	115	4169	0.516	ug/ml	78
45)	Hexachlorocyclopentadiene	6.918	237	5985	0.492	ug/ml	98
46)	2,4,6-Trichlorophenol	7.033	196	5142	0.488	ug/ml	90
47)	2,4,5-Trichlorophenol	7.064	196	5908	0.505	ug/ml	98
49)	2-Chloronaphthalene	7.216	162	15950	0.533	ug/ml#	91
50)	2-Nitroaniline	7.325	138	3550	0.464	ug/ml	99
51)	1,4-Dinitrobenzene	7.452	168	1672	0.424	ug/ml	88
52)	1,3-Dinitrobenzene	7.530	168	2473	0.514	ug/ml#	1
53)	Dimethyl phthalate	7.521	163	18399	0.510	ug/ml#	94
54)	Acenaphthylene	7.614	152	23199	0.490	ug/ml	98
55)	2,6-Dinitrotoluene	7.561	165	3486	0.482	ug/ml#	79
56)	1,2-Dinitrobenzene	7.605	168	1259	0.420	ug/ml#	1
66)	3-Nitroaniline	7.720	138	3368	0.500	ug/ml#	89
67)	Acenaphthene	7.785	154	13245	0.512	ug/ml	85
68)	2,4-Dinitrophenol	7.825	184	1297	0.477	ug/ml#	57
69)	Dibenzofuran	7.956	168	24270	0.524	ug/ml	90
70)	2,4-Dinitrotoluene	7.950	165	4661	0.471	ug/ml	93
71)	4-Nitrophenol	7.903	65	2927	0.479	ug/ml	97
72)	2,3,5,6-Tetrachlorophenol	8.040	232	4865	0.486	ug/ml	94

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNL3.D
 Acq On : 16 Apr 2025 7:42 pm
 Operator : Dakota:HNY
 Sample : IL8,32,,ABNL0.5 Lot# 11538
 Misc : WG2055280
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 17 15:21:28 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
73)	2,3,4,6-Tetrachlorophenol	8.083	232	4665	0.475	ug/ml	96
74)	Diethyl phthalate	8.211	149	17659	0.509	ug/ml	97
75)	Fluorene	8.285	166	18200	0.504	ug/ml	93
76)	4-Chlorophenyl phenyl ...	8.301	204	10335	0.552	ug/ml#	79
77)	4-Nitroaniline	8.304	138	3360	0.475	ug/ml#	83
78)	4,6-Dinitro-o-cresol	8.341	198	2378	0.388	ug/ml#	71
79)	NDPA/DPA	8.416	169	15791	0.500	ug/ml	94
80)	Azobenzene	8.450	77	16290	0.507	ug/ml	94
82)	4-Bromophenyl phenyl e...	8.770	248	6696	0.566	ug/ml#	68
83)	Hexachlorobenzene	8.823	284	7628	0.553	ug/ml#	82
84)	Pentachlorophenol	9.016	266	3377	0.413	ug/ml	97
91)	Phenanthrene	9.205	178	32757	0.537	ug/ml	98
92)	Anthracene	9.255	178	30651	0.513	ug/ml	98
93)	Carbazole	9.420	167	27383	0.487	ug/ml	99
94)	Di-n-butylphthalate	9.802	149	27576	0.473	ug/ml	98
95)	Fluoranthene	10.355	202	37251	0.518	ug/ml#	91
96)	Benzidine	10.505	184	16142	0.372	ug/ml#	91
97)	Pyrene	10.573	202	38930	0.501	ug/ml	98
99)	Butyl benzyl phthalate	11.285	149	10607	0.419	ug/ml	94
107)	Benzo(a)anthracene	11.807	228	39630	0.509	ug/ml	99
108)	3,3'-Dichlorobenzidine	11.804	252	12914	0.469	ug/ml#	95
109)	Chrysene	11.847	228	40128	0.524	ug/ml	98
110)	Bis(2-ethylhexyl)phtha...	11.919	149	17237	0.440	ug/ml#	90
111)	Di-n-octylphthalate	12.596	149	26061	0.410	ug/ml#	85
112)	Benzo(b)fluoranthene	12.913	252	41638	0.528	ug/ml#	90
113)	Benzo(k)fluoranthene	12.938	252	39390	0.491	ug/ml#	93
114)	Benzo(a)pyrene	13.227	252	37218	0.494	ug/ml#	93
116)	Indeno(1,2,3-cd)pyrene	14.269	276	41536M6	0.488	ug/mL	
117)	Dibenzo(a,h)anthracene	14.290	278	42510	0.518	ug/ml#	90
118)	Benzo(ghi)perylene	14.526	276	42396	0.517	ug/ml#	86

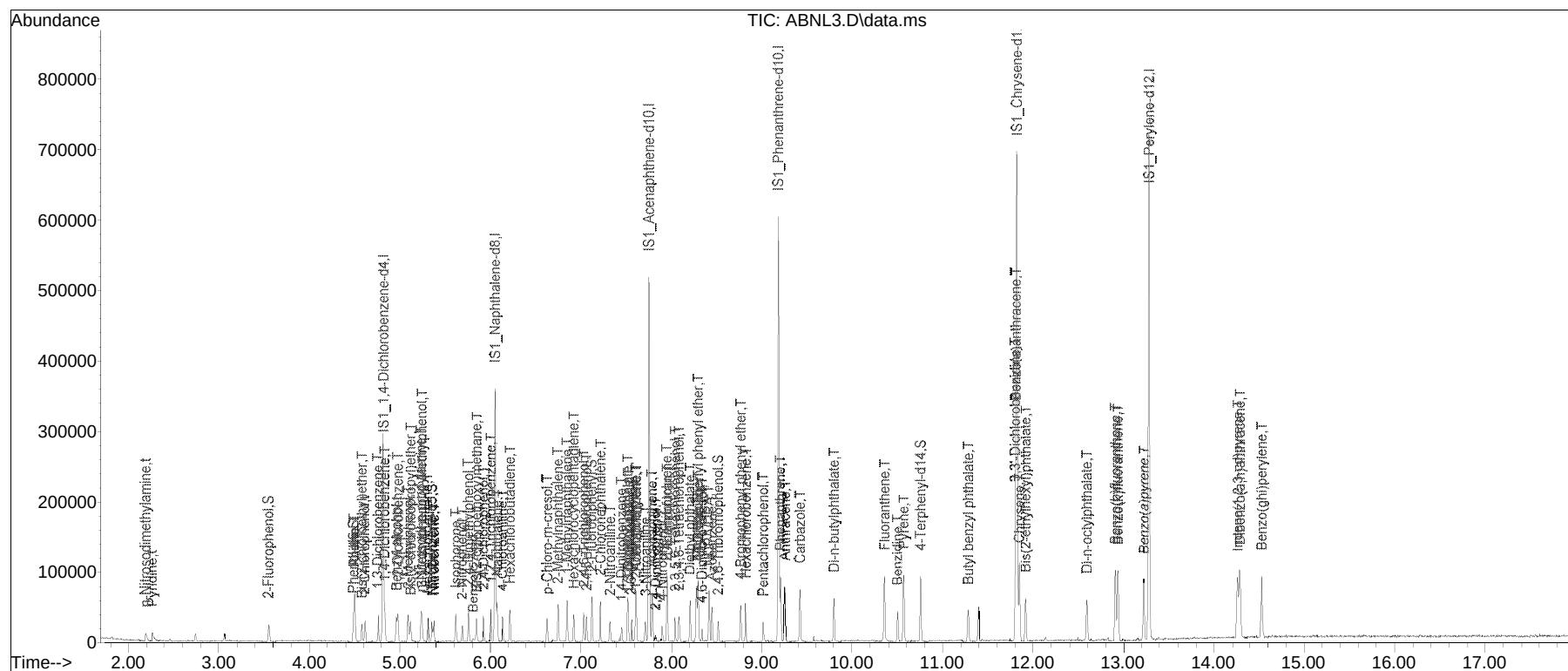
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

```
Data Path : I:\8270\Dakota\250416RVTICAL\
Data File : ABNL3.D
Acq On    : 16 Apr 2025    7:42 pm
Operator  : Dakota:HNY
Sample    : IL8,32,,ABNL0.5 Lot# 11538
Misc      : WG2055280
ALS Vial  : 7    Sample Multiplier: 1
```

Quant Time: Apr 17 15:21:28 2025
Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Apr 17 14:28:59 2025
Response via : Initial Calibration

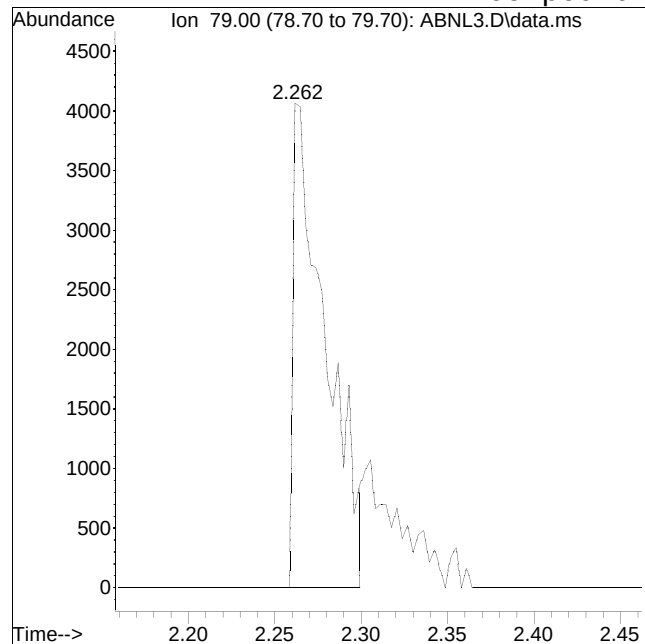
Sub List : ABNITa\8270ABNakoaa\850416RVTICAL\AP9L6.D•



Manual Integration Report

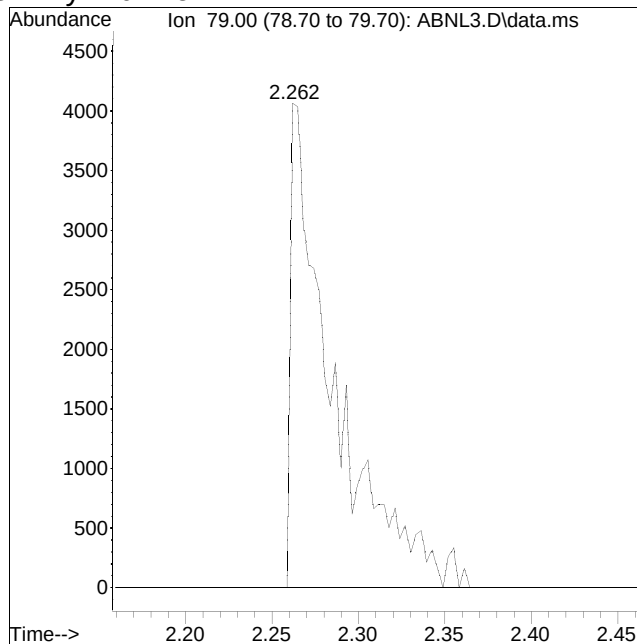
Data Path : I:\8270\Dakota\250416RVTICOM
Data File : ABNL3.D
Date Inj'd : 4/16/2025 7:42 pm
Sample : IL8,32,,ABNL0.5 Lot# 11538
Method : FS250416RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 4/17/2025 3:22 pm

Compound #3: Pyridine



Original Peak Response = 5285

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

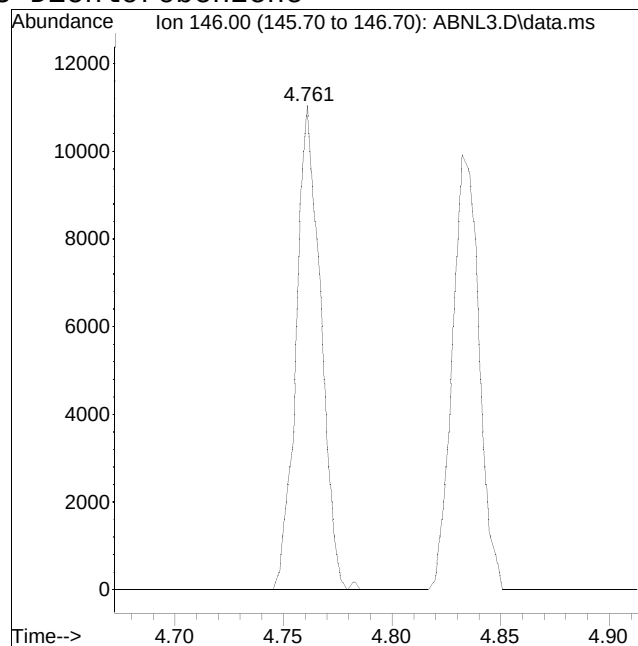
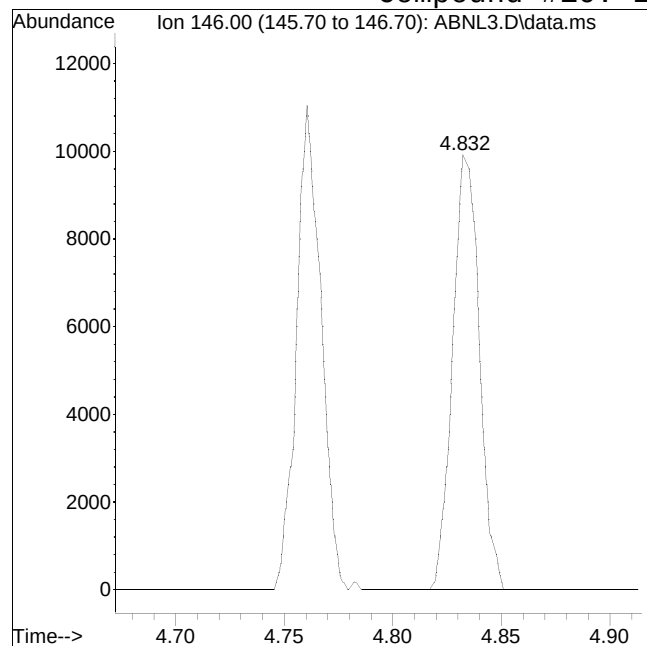


Manual Peak Response = 6945 M1

Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQ1
Data File : ABNL3.D
Date Inj'd : 4/16/2025 7:42 pm
Sample : IL8,32,,ABNL0.5 Lot# 11538
Method : FS250416RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 4/17/2025 3:22 pm

Compound #10: 1,3-Dichlorobenzene



Original Peak Response = 8496

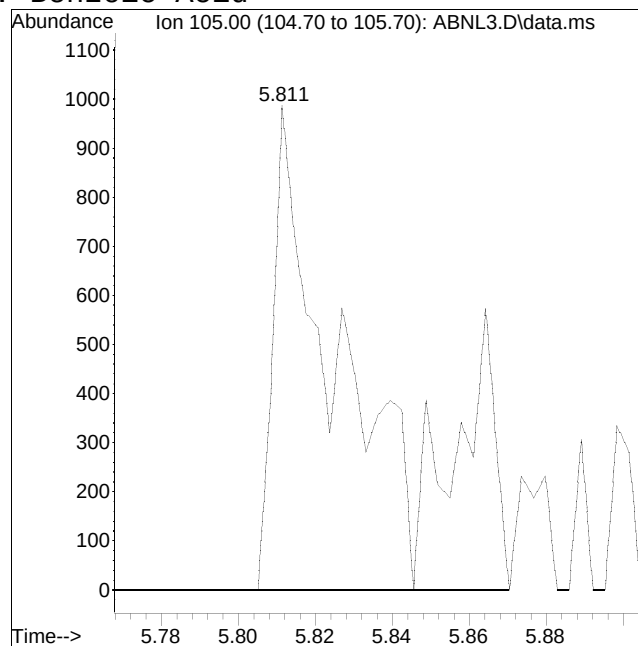
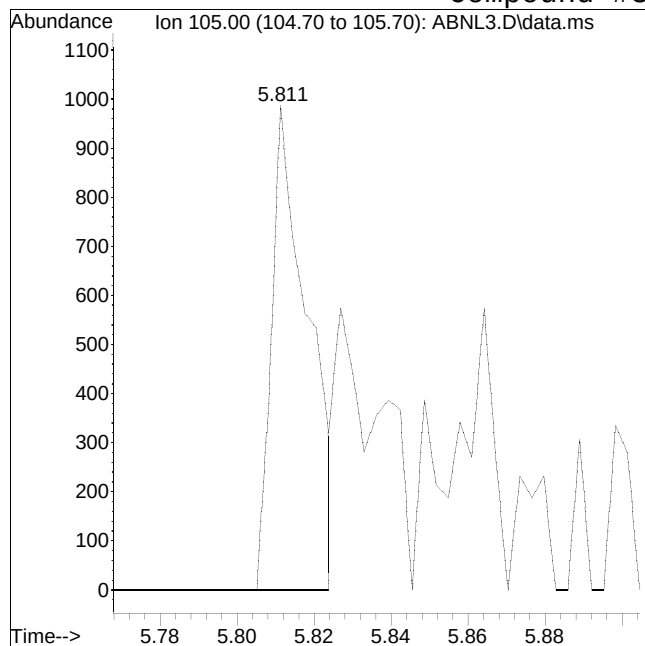
Manual Peak Response = 8701 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQ\data
Data File : ABNL3.D
Date Inj'd : 4/16/2025 7:42 pm
Sample : IL8,32,,ABNL0.5 Lot# 11538
Method : FS250416RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 4/17/2025 3:22 pm

Compound #39: Benzoic Acid



Original Peak Response = 653

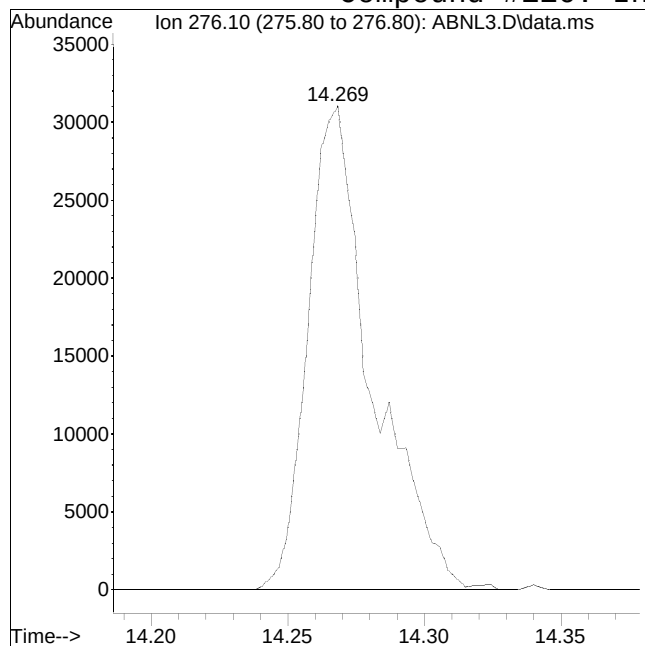
Manual Peak Response = 1522 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

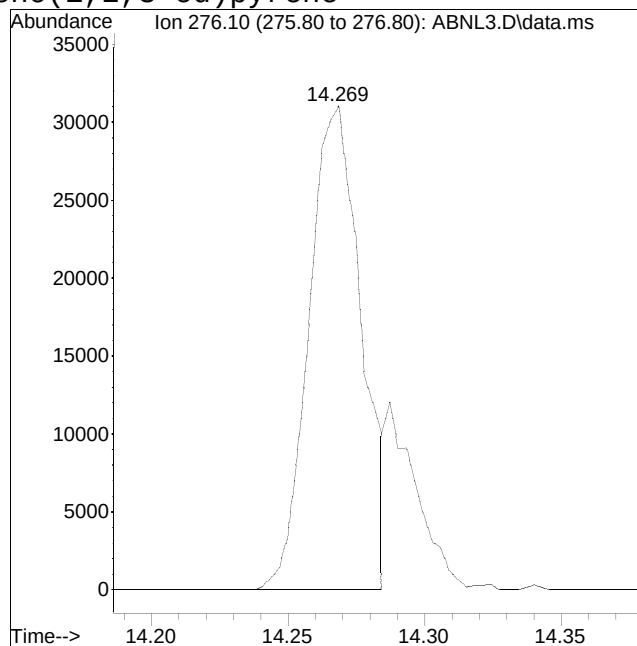
Data Path : I:\8270\Dakota\250416RVTICQ\data.ms
Data File : ABNL3.D
Date Inj'd : 4/16/2025 7:42 pm
Sample : IL8,32,,ABNL0.5 Lot# 11538
Method : FS250416RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 4/17/2025 3:22 pm

Compound #116: Indeno(1,2,3-cd)pyrene



Original Peak Response = 51017

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 41536 M6

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNL2.D
 Acq On : 16 Apr 2025 8:04 pm
 Operator : Dakota:HNY
 Sample : IL9,32,,ABNL0.2 Lot# 11539
 Misc : WG2055280
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 17 15:21:20 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.817	152	41858	4.000	ug/ml	0.00
Standard Area 1 = 38918			Recovery =	107.55%		
37) IS1_Naphthalene-d8	6.051	136	142646	4.000	ug/ml	# 0.00
Standard Area 1 = 137542			Recovery =	103.71%		
65) IS1_Acenaphthene-d10	7.754	164	99251	4.000	ug/ml	0.00
Standard Area 1 = 98079			Recovery =	101.19%		
90) IS1_Phenanthrene-d10	9.184	188	216867	4.000	ug/ml	0.00
Standard Area 1 = 211127			Recovery =	102.72%		
106) IS1_Chrysene-d12	11.816	240	243997	4.000	ug/ml	0.00
Standard Area 1 = 240990			Recovery =	101.25%		
115) IS1_Perylene-d12	13.280	264	273623	4.000	ug/ml	0.00
Standard Area 1 = 282356			Recovery =	96.91%		
System Monitoring Compounds						
4) 2-Fluorophenol	3.549	112	2360	0.220	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	11.00%#		
7) Phenol-d6	4.490	99	2408	0.182	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	9.10%#		
19) Nitrobenzene-d5	5.357	82	2692	0.189	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	18.90%#		
48) 2-Fluorobiphenyl	7.117	172	7551	0.203	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	20.30%#		
81) 2,4,6-Tribromophenol	8.515	330	1026	0.176	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	8.80%#		
98) 4-Terphenyl-d14	10.759	244	12202	0.211	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	21.10%#		
Target Compounds						
2) n-Nitrosodimethylamine	2.203	74	1341	0.187	ug/ml#	88
3) Pyridine	2.287	79	2508M1	0.200	ug/ml	
5) Aniline	4.500	93	3066	0.174	ug/ml#	32
6) 2-Chlorophenol	4.615	128	2228	0.187	ug/ml#	91
8) Phenol	4.496	94	3479	0.216	ug/ml#	61
9) Bis(2-chloroethyl)ether	4.580	93	2085	0.200	ug/ml	93
10) 1,3-Dichlorobenzene	4.764	146	3407	0.216	ug/ml	95
11) 1,4-Dichlorobenzene	4.832	146	3382M3	0.208	ug/ml	
12) 1,2-Dichlorobenzene	4.981	146	2946M3	0.195	ug/ml	

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RTICAL\
 Data File : ABNL2.D
 Acq On : 16 Apr 2025 8:04 pm
 Operator : Dakota:HNY
 Sample : IL9,32,,ABNL0.2 Lot# 11539
 Misc : WG2055280
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 17 15:21:20 2025
 Quant Method : I:\8270\Dakota\250416RTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13)	Benzyl alcohol	4.966	79	2089	0.199	ug/ml	91
14)	Bis(2-chloroisopropyl)...	5.112	45	4414	0.197	ug/ml#	61
15)	2-Methylphenol	5.090	108	2316	0.218	ug/ml#	83
16)	Hexachloroethane	5.311	117	956	0.171	ug/ml#	13
17)	n-Nitrosodi-n-propylamine	5.236	70	1787	0.188	ug/ml#	59
18)	3-Methylphenol/4-Methy...	5.246	108	2270	0.200	ug/ml#	94
20)	Nitrobenzene	5.376	77	2813	0.202	ug/ml#	83
21)	Isophorone	5.619	82	4784	0.187	ug/ml#	93
22)	2-Nitrophenol	5.690	139	1212	0.197	ug/ml#	31
23)	2,4-Dimethylphenol	5.758	107	2384	0.195	ug/ml	97
24)	Bis(2-chloroethoxy)met...	5.845	93	3171	0.211	ug/ml#	89
25)	2,4-Dichlorophenol	5.923	162	2347	0.185	ug/ml#	91
26)	1,2,4-Trichlorobenzene	6.004	180	2860	0.180	ug/ml	88
38)	Naphthalene	6.072	128	8000	0.219	ug/ml#	96
39)	Benzoic Acid	0.000		0	N.D.	d	
40)	4-Chloroaniline	6.141	65	1140	0.228	ug/ml	85
41)	Hexachlorobutadiene	6.221	225	1628	0.181	ug/ml#	85
42)	p-Chloro-m-cresol	6.626	107	1796	0.177	ug/ml	87
43)	2-Methylnaphthalene	6.750	142	4823	0.203	ug/ml	96
44)	1-Methylnaphthalene	6.846	115	1664M3	0.206	ug/ml	
45)	Hexachlorocyclopentadiene	6.921	237	2544	0.209	ug/ml#	90
46)	2,4,6-Trichlorophenol	7.039	196	1955	0.186	ug/ml	87
47)	2,4,5-Trichlorophenol	7.061	196	2137	0.183	ug/ml	95
49)	2-Chloronaphthalene	7.216	162	6488	0.217	ug/ml#	91
50)	2-Nitroaniline	7.325	138	1417	0.186	ug/ml#	90
51)	1,4-Dinitrobenzene	7.452	168	638	0.162	ug/ml	92
52)	1,3-Dinitrobenzene	7.530	168	921	0.192	ug/ml#	1
53)	Dimethyl phthalate	7.521	163	7345	0.204	ug/ml#	94
54)	Acenaphthylene	7.614	152	9310	0.197	ug/ml	98
55)	2,6-Dinitrotoluene	7.567	165	1321	0.183	ug/ml	88
56)	1,2-Dinitrobenzene	7.605	168	546	0.182	ug/ml#	1
66)	3-Nitroaniline	7.716	138	1389	0.206	ug/ml#	88
67)	Acenaphthene	7.785	154	5525	0.213	ug/ml	88
68)	2,4-Dinitrophenol	7.828	184	207M2	0.245	ug/ml	
69)	Dibenzofuran	7.953	168	10047	0.216	ug/ml#	83
70)	2,4-Dinitrotoluene	7.950	165	1685	0.170	ug/ml	91
71)	4-Nitrophenol	7.897	65	970	0.158	ug/ml#	58
72)	2,3,5,6-Tetrachlorophenol	8.040	232	1739	0.173	ug/ml	95

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNL2.D
 Acq On : 16 Apr 2025 8:04 pm
 Operator : Dakota:HNY
 Sample : IL9,32,,ABNL0.2 Lot# 11539
 Misc : WG2055280
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 17 15:21:20 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
73)	2,3,4,6-Tetrachlorophenol	8.080	232	1818	0.184	ug/ml	89
74)	Diethyl phthalate	8.211	149	7025	0.202	ug/ml	95
75)	Fluorene	8.285	166	7260	0.200	ug/ml	96
76)	4-Chlorophenyl phenyl ...	8.304	204	3744	0.200	ug/ml#	84
77)	4-Nitroaniline	8.307	138	1119	0.158	ug/ml#	72
78)	4,6-Dinitro-o-cresol	8.341	198	699	0.114	ug/ml#	1
79)	NDPA/DPA	8.413	169	5713	0.181	ug/ml#	86
80)	Azobenzene	8.450	77	6280	0.195	ug/ml	91
82)	4-Bromophenyl phenyl e...	8.770	248	2159	0.182	ug/ml#	67
83)	Hexachlorobenzene	8.820	284	2962	0.214	ug/ml#	79
84)	Pentachlorophenol	9.019	266	1157	0.141	ug/ml#	79
91)	Phenanthrene	9.205	178	12553	0.201	ug/ml	95
92)	Anthracene	9.255	178	11559	0.189	ug/ml	96
93)	Carbazole	9.420	167	11440	0.199	ug/ml	97
94)	Di-n-butylphthalate	9.805	149	11213	0.188	ug/ml#	92
95)	Fluoranthene	10.355	202	14534	0.198	ug/ml#	91
96)	Benzidine	10.501	184	4226	0.095	ug/ml#	85
97)	Pyrene	10.573	202	15460	0.195	ug/ml	98
99)	Butyl benzyl phthalate	11.281	149	4684	0.181	ug/ml	92
107)	Benzo(a)anthracene	11.810	228	16153	0.202	ug/ml	96
108)	3,3'-Dichlorobenzidine	11.804	252	5199	0.184	ug/ml#	88
109)	Chrysene	11.844	228	17854	0.226	ug/ml	99
110)	Bis(2-ethylhexyl)phtha...	11.919	149	7049	0.175	ug/ml#	91
111)	Di-n-octylphthalate	12.593	149	10245	0.156	ug/ml#	85
112)	Benzo(b)fluoranthene	12.913	252	15640	0.192	ug/ml#	90
113)	Benzo(k)fluoranthene	12.935	252	17582	0.213	ug/ml#	90
114)	Benzo(a)pyrene	13.224	252	15716	0.203	ug/ml#	89
116)	Indeno(1,2,3-cd)pyrene	14.268	276	14840M6	0.175	ug/mL	
117)	Dibenzo(a,h)anthracene	14.290	278	16890	0.206	ug/ml#	88
118)	Benzo(ghi)perylene	14.529	276	15993	0.195	ug/ml#	85

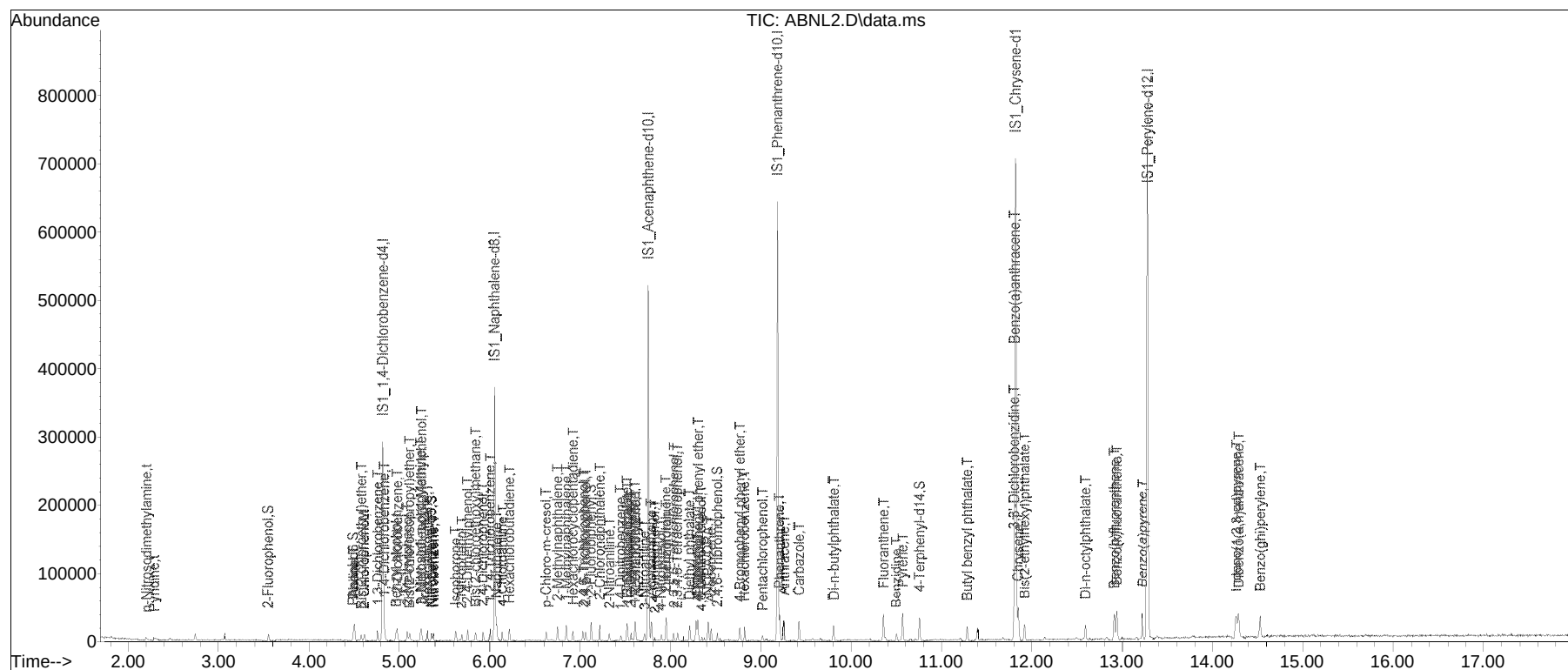
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
Data File : ABNL2.D
Acq On : 16 Apr 2025 8:04 pm
Operator : Dakota:HNY
Sample : IL9,32,,ABNL0.2 Lot# 11539
Misc : WG2055280
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 17 15:21:20 2025
Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Apr 17 14:28:59 2025
Response via : Initial Calibration

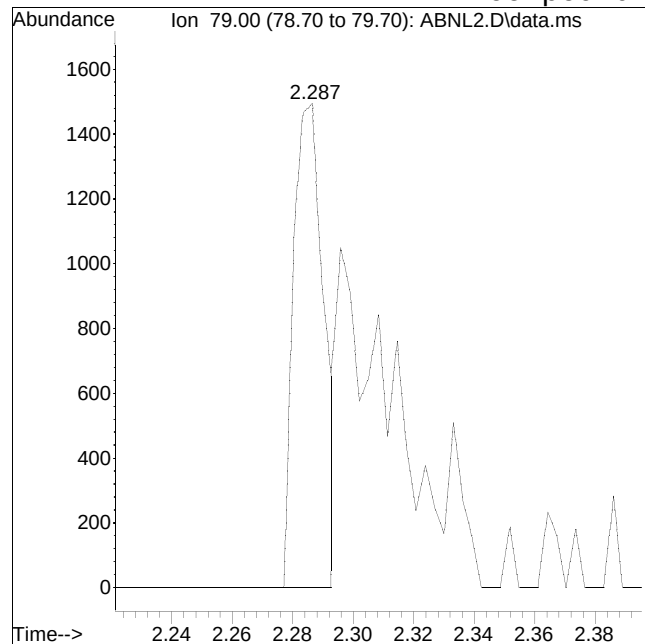
Sub List : ABNita\827ABNakod\850416RVTICAL\AP9L6.D•



Manual Integration Report

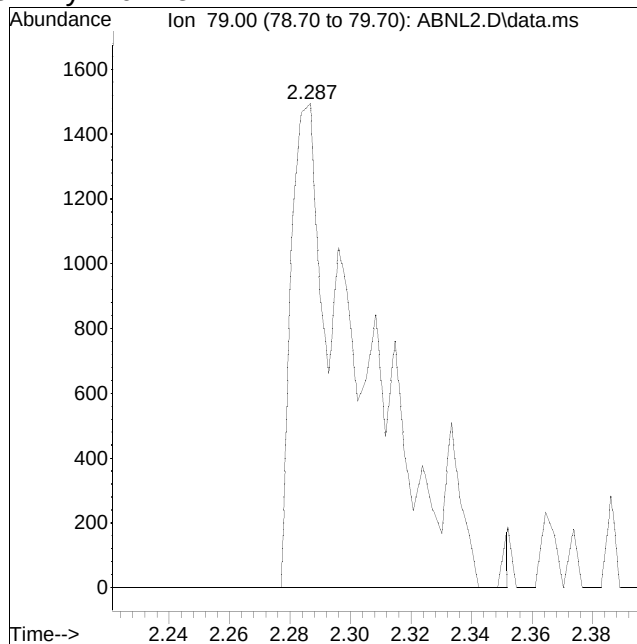
Data Path : I:\8270\Dakota\250416RVTIC
Data File : ABNL2.D Operator : Dakota:HNY
Date Inj'd : 4/16/2025 8:04 pm Instrument : Dakota
Sample : IL9,32,,ABNL0.2 Lot# 11539 Quant Date : 4/17/2025 3:22 pm

Compound #3: Pyridine



Original Peak Response = 1047

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

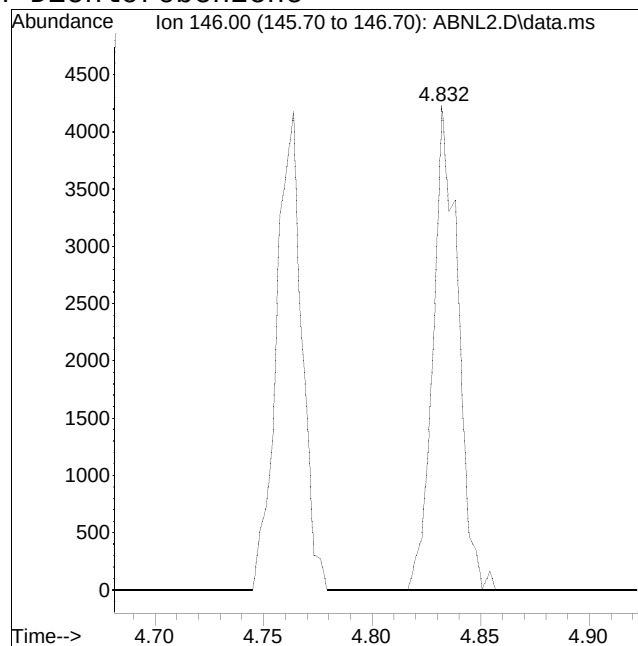
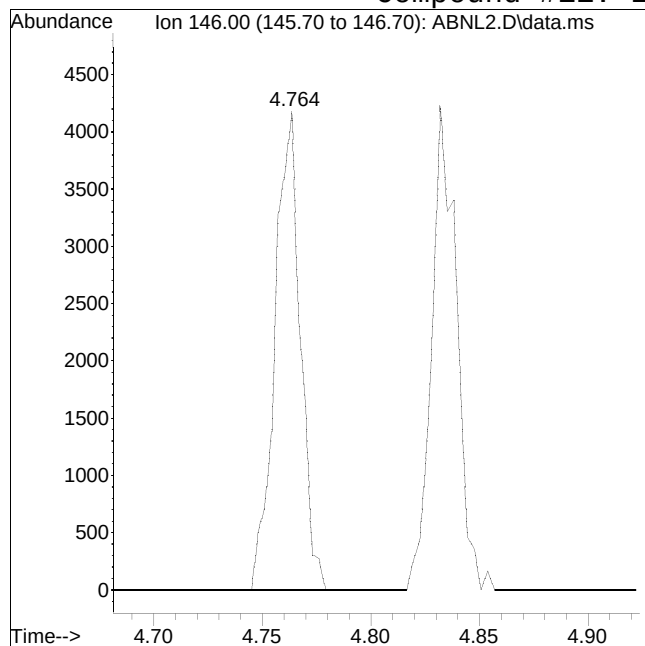


Manual Peak Response = 2508 M1

Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQ1
Data File : ABNL2.D
Date Inj'd : 4/16/2025 8:04 pm
Sample : IL9,32,,ABNL0.2 Lot# 11539
Method : FS250416RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 4/17/2025 3:22 pm

Compound #11: 1,4-Dichlorobenzene



Original Peak Response = 3407

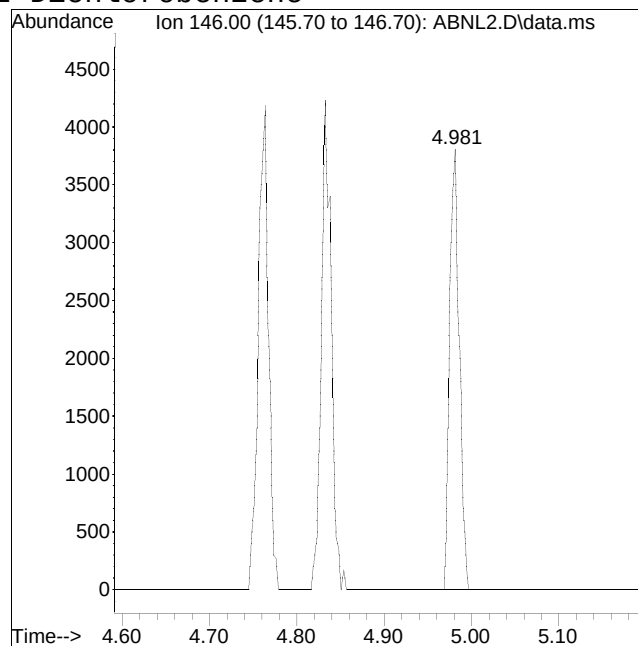
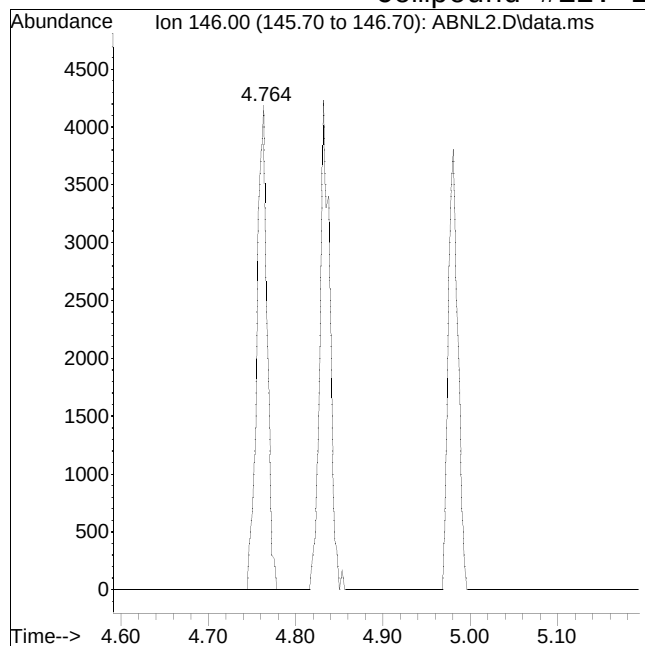
Manual Peak Response = 3382 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQ\data.ms
Data File : ABNL2.D
Date Inj'd : 4/16/2025 8:04 pm
Sample : IL9,32,,ABNL0.2 Lot# 11539
Method : FS250416RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 4/17/2025 3:22 pm

Compound #12: 1,2-Dichlorobenzene



Original Peak Response = 3407

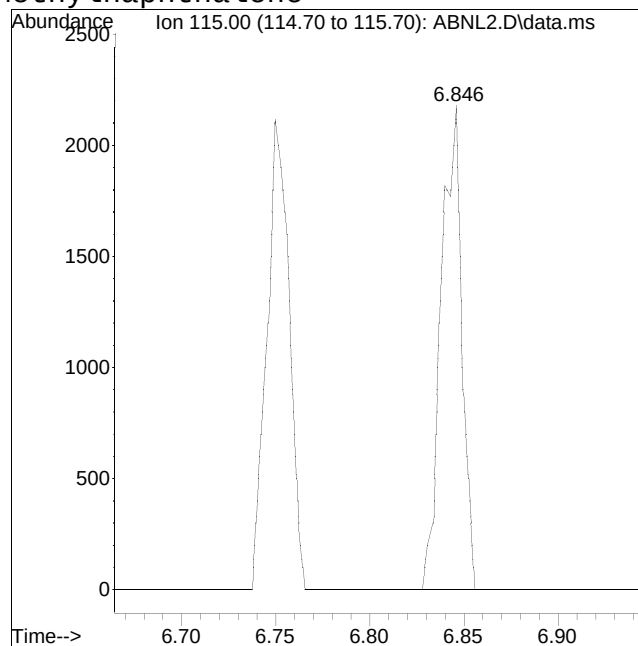
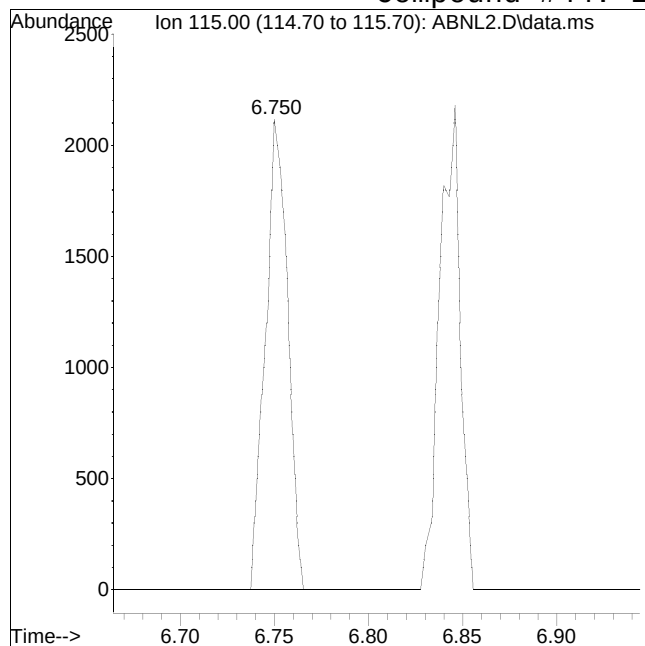
Manual Peak Response = 2946 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQ11
Data File : ABNL2.D
Date Inj'd : 4/16/2025 8:04 pm
Sample : IL9,32,,ABNL0.2 Lot# 11539
Method : FS250416RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 4/17/2025 3:22 pm

Compound #44: 1-Methylnaphthalene



Original Peak Response = 1749

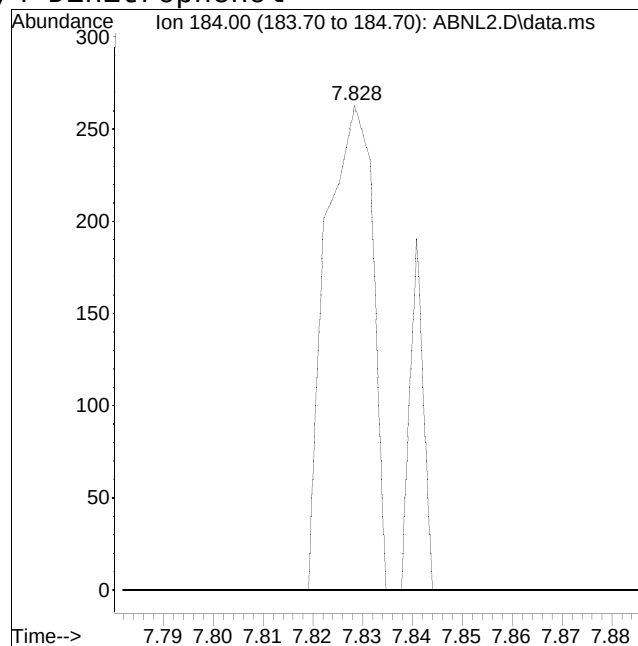
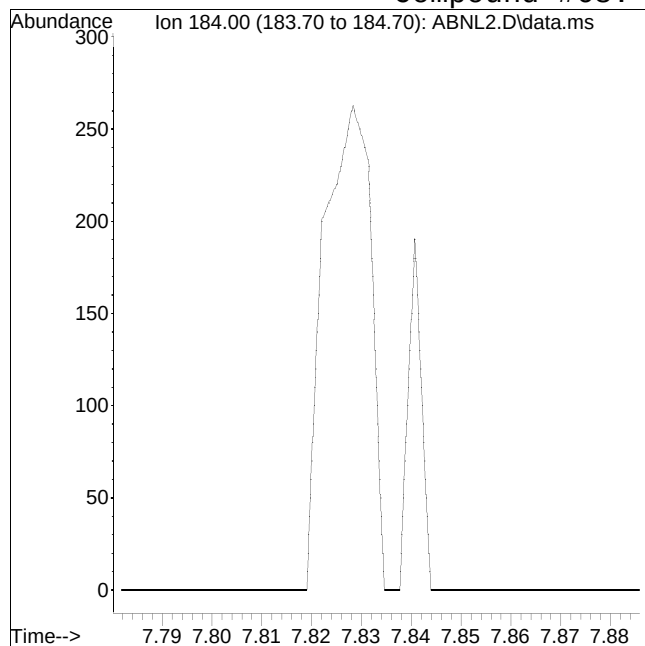
Manual Peak Response = 1664 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQ\data.ms Method : FS250416RVT_Dakota.m
Data File : ABNL2.D Operator : Dakota:HNY
Date Inj'd : 4/16/2025 8:04 pm Instrument : Dakota
Sample : IL9,32,,ABNL0.2 Lot# 11539 Quant Date : 4/17/2025 3:22 pm

Compound #68: 2,4-Dinitrophenol



Original Peak Response = 0

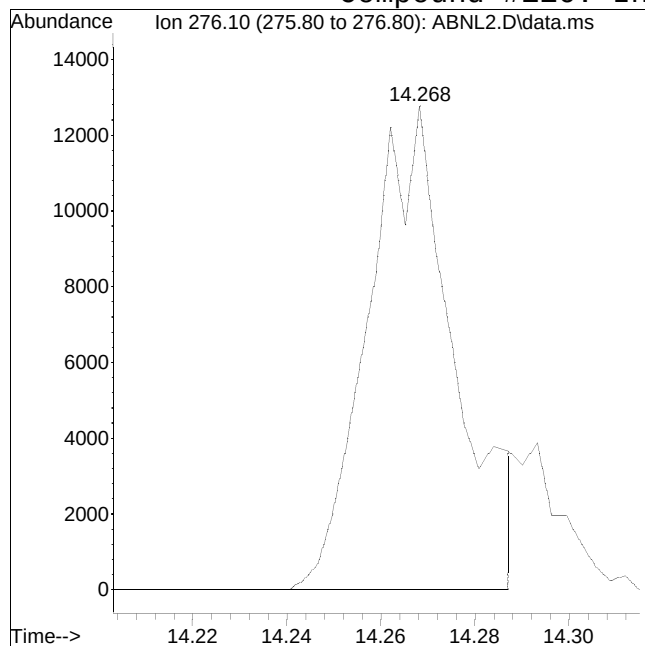
Manual Peak Response = 207 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

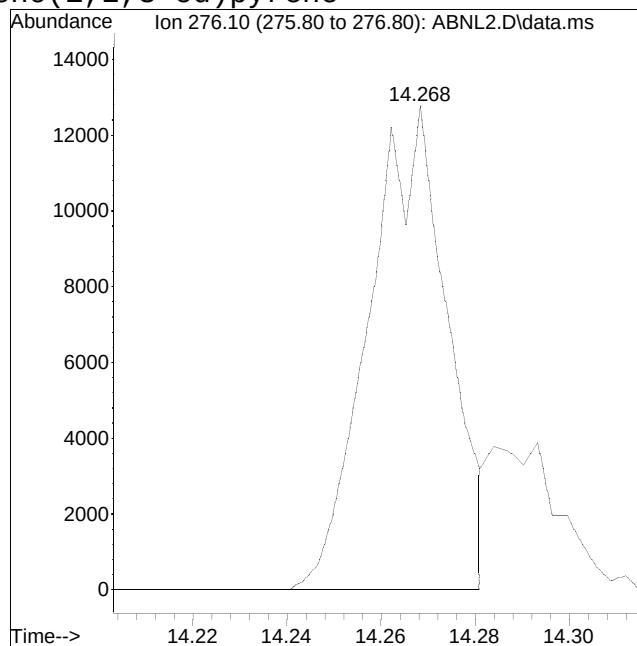
Data Path : I:\8270\Dakota\250416RVTICQ\data.ms
Data File : ABNL2.D
Date Inj'd : 4/16/2025 8:04 pm
Sample : IL9,32,,ABNL0.2 Lot# 11539
Method : FS250416RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 4/17/2025 3:22 pm

Compound #116: Indeno(1,2,3-cd)pyrene



Original Peak Response = 16229

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 14840 M6

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNL1.D
 Acq On : 16 Apr 2025 8:27 pm
 Operator : Dakota:HNY
 Sample : IL10,32,,ABNL0.1 Lot# 11540
 Misc : WG2055280
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 17 15:21:11 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.817	152	40882	4.000	ug/ml	0.00
Standard Area 1 = 38918			Recovery =	105.05%		
37) IS1_Naphthalene-d8	6.051	136	138881	4.000	ug/ml	# 0.00
Standard Area 1 = 137542			Recovery =	100.97%		
65) IS1_Acenaphthene-d10	7.754	164	94717	4.000	ug/ml	0.00
Standard Area 1 = 98079			Recovery =	96.57%		
90) IS1_Phenanthrene-d10	9.184	188	211402	4.000	ug/ml	0.00
Standard Area 1 = 211127			Recovery =	100.13%		
106) IS1_Chrysene-d12	11.819	240	240546	4.000	ug/ml	0.00
Standard Area 1 = 240990			Recovery =	99.82%		
115) IS1_Perylene-d12	13.280	264	274734	4.000	ug/ml	0.00
Standard Area 1 = 282356			Recovery =	97.30%		
System Monitoring Compounds						
4) 2-Fluorophenol	3.552	112	1181	0.113	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	5.65%#		
7) Phenol-d6	4.490	99	1328	0.103	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	5.15%#		
19) Nitrobenzene-d5	5.358	82	1456	0.105	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	10.50%#		
48) 2-Fluorobiphenyl	7.117	172	3945	0.109	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	10.90%#		
81) 2,4,6-Tribromophenol	8.522	330	432M2	0.077	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	3.85%#		
98) 4-Terphenyl-d14	10.763	244	6018	0.107	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	10.70%#		
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.203	74	637	0.091	ug/ml#	80
3) Pyridine	2.299	79	562	0.046	ug/ml#	78
5) Aniline	4.497	93	1447	0.084	ug/ml#	31
6) 2-Chlorophenol	4.612	128	1358	0.117	ug/ml#	72
8) Phenol	4.500	94	1467	0.093	ug/ml#	46
9) Bis(2-chloroethyl)ether	4.574	93	950	0.093	ug/ml#	64
10) 1,3-Dichlorobenzene	4.764	146	1752M3	0.114	ug/ml	
11) 1,4-Dichlorobenzene	4.832	146	1996M3	0.126	ug/ml	

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNL1.D
 Acq On : 16 Apr 2025 8:27 pm
 Operator : Dakota:HNY
 Sample : IL10,32,,ABNL0.1 Lot# 11540
 Misc : WG2055280
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 17 15:21:11 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
12)	1,2-Dichlorobenzene	4.978	146	1716M3	0.116	ug/ml	
13)	Benzyl alcohol	4.966	79	1185	0.115	ug/ml#	84
14)	Bis(2-chloroisopropyl)...	5.115	45	2515	0.115	ug/ml#	65
15)	2-Methylphenol	5.093	108	853	0.082	ug/ml#	85
16)	Hexachloroethane	5.314	117	606M2	0.111	ug/ml	
17)	n-Nitrosodi-n-propylamine	5.236	70	751	0.081	ug/ml#	59
18)	3-Methylphenol/4-Methy...	5.246	108	1044	0.094	ug/ml#	96
20)	Nitrobenzene	5.373	77	1296	0.095	ug/ml#	39
21)	Isophorone	5.622	82	2691	0.108	ug/ml#	65
22)	2-Nitrophenol	5.693	139	430M2	0.072	ug/ml	
23)	2,4-Dimethylphenol	5.759	107	1088	0.091	ug/ml#	63
24)	Bis(2-chloroethoxy)met...	5.846	93	1449	0.099	ug/ml#	83
25)	2,4-Dichlorophenol	5.926	162	1112	0.090	ug/ml#	60
26)	1,2,4-Trichlorobenzene	6.010	180	1789	0.115	ug/ml#	82
38)	Naphthalene	6.072	128	4145	0.116	ug/ml#	51
39)	Benzoic Acid	0.000		0	N.D.		
40)	4-Chloroaniline	6.141	65	314M2	0.065	ug/ml	
41)	Hexachlorobutadiene	6.222	225	913	0.104	ug/ml#	18
42)	p-Chloro-m-cresol	6.629	107	851	0.086	ug/ml#	73
43)	2-Methylnaphthalene	6.753	142	2191	0.095	ug/ml	88
44)	1-Methylnaphthalene	6.843	115	746M3	0.095	ug/ml	
45)	Hexachlorocyclopentadiene	6.921	237	1199	0.101	ug/ml#	92
46)	2,4,6-Trichlorophenol	7.036	196	952	0.093	ug/ml#	70
47)	2,4,5-Trichlorophenol	7.064	196	1218	0.107	ug/ml#	76
49)	2-Chloronaphthalene	7.219	162	2776	0.095	ug/ml#	85
50)	2-Nitroaniline	7.322	138	680	0.091	ug/ml#	61
51)	1,4-Dinitrobenzene	7.456	168	263M2	0.069	ug/ml	
52)	1,3-Dinitrobenzene	7.524	168	381M2	0.081	ug/ml	
53)	Dimethyl phthalate	7.521	163	3592	0.102	ug/ml#	77
54)	Acenaphthylene	7.614	152	4500	0.098	ug/ml	98
55)	2,6-Dinitrotoluene	7.567	165	626	0.089	ug/ml#	51
56)	1,2-Dinitrobenzene	7.611	168	36M2	0.012	ug/ml	
66)	3-Nitroaniline	7.720	138	392M2	0.061	ug/ml	
67)	Acenaphthene	7.785	154	2471	0.100	ug/ml#	74
68)	2,4-Dinitrophenol	0.000		0	N.D.		
69)	Dibenzofuran	7.956	168	4964	0.112	ug/ml	90
70)	2,4-Dinitrotoluene	7.950	165	725M3	0.076	ug/ml	
71)	4-Nitrophenol	7.900	65	497M3	0.085	ug/ml	

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNL1.D
 Acq On : 16 Apr 2025 8:27 pm
 Operator : Dakota:HNY
 Sample : IL10,32,,ABNL0.1 Lot# 11540
 Misc : WG2055280
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 17 15:21:11 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
72)	2,3,5,6-Tetrachlorophenol	8.040	232	962	0.100	ug/ml#	71
73)	2,3,4,6-Tetrachlorophenol	8.087	232	917	0.097	ug/ml#	72
74)	Diethyl phthalate	8.211	149	3462	0.104	ug/ml#	84
75)	Fluorene	8.282	166	3744	0.108	ug/ml#	95
76)	4-Chlorophenyl phenyl ...	8.301	204	2175	0.121	ug/ml#	81
77)	4-Nitroaniline	8.301	138	492M2	0.073	ug/ml	
78)	4,6-Dinitro-o-cresol	8.345	198	262M2	0.045	ug/ml	
79)	NDPA/DPA	8.413	169	3472	0.115	ug/ml	98
80)	Azobenzene	8.450	77	3191	0.104	ug/ml#	78
82)	4-Bromophenyl phenyl e...	8.770	248	1271	0.112	ug/ml#	74
83)	Hexachlorobenzene	8.820	284	1552	0.118	ug/ml#	50
84)	Pentachlorophenol	9.016	266	496M2	0.063	ug/ml	
91)	Phenanthrene	9.209	178	6458	0.106	ug/ml#	91
92)	Anthracene	9.255	178	5921	0.099	ug/ml#	83
93)	Carbazole	9.417	167	5766	0.103	ug/ml#	94
94)	Di-n-butylphthalate	9.805	149	5889	0.101	ug/ml#	91
95)	Fluoranthene	10.355	202	7249	0.101	ug/ml#	89
96)	Benzidine	10.502	184	1428	0.033	ug/ml#	68
97)	Pyrene	10.573	202	8549	0.110	ug/ml	99
99)	Butyl benzyl phthalate	11.282	149	1966	0.078	ug/ml#	86
107)	Benzo(a)anthracene	11.810	228	8435	0.107	ug/ml	92
108)	3,3'-Dichlorobenzidine	11.807	252	2409	0.086	ug/ml#	88
109)	Chrysene	11.847	228	8959	0.115	ug/ml	99
110)	Bis(2-ethylhexyl)phtha...	11.919	149	3289	0.083	ug/ml#	95
111)	Di-n-octylphthalate	12.596	149	4918	0.076	ug/ml#	84
112)	Benzo(b)fluoranthene	12.913	252	8254	0.103	ug/ml#	87
113)	Benzo(k)fluoranthene	12.941	252	8028	0.099	ug/ml	97
114)	Benzo(a)pyrene	13.224	252	7366	0.096	ug/ml#	85
116)	Indeno(1,2,3-cd)pyrene	14.262	276	8274	0.097	ug/mL#	85
117)	Dibenzo(a,h)anthracene	14.290	278	7351	0.089	ug/ml#	87
118)	Benzo(ghi)perylene	14.527	276	8624	0.105	ug/ml#	74

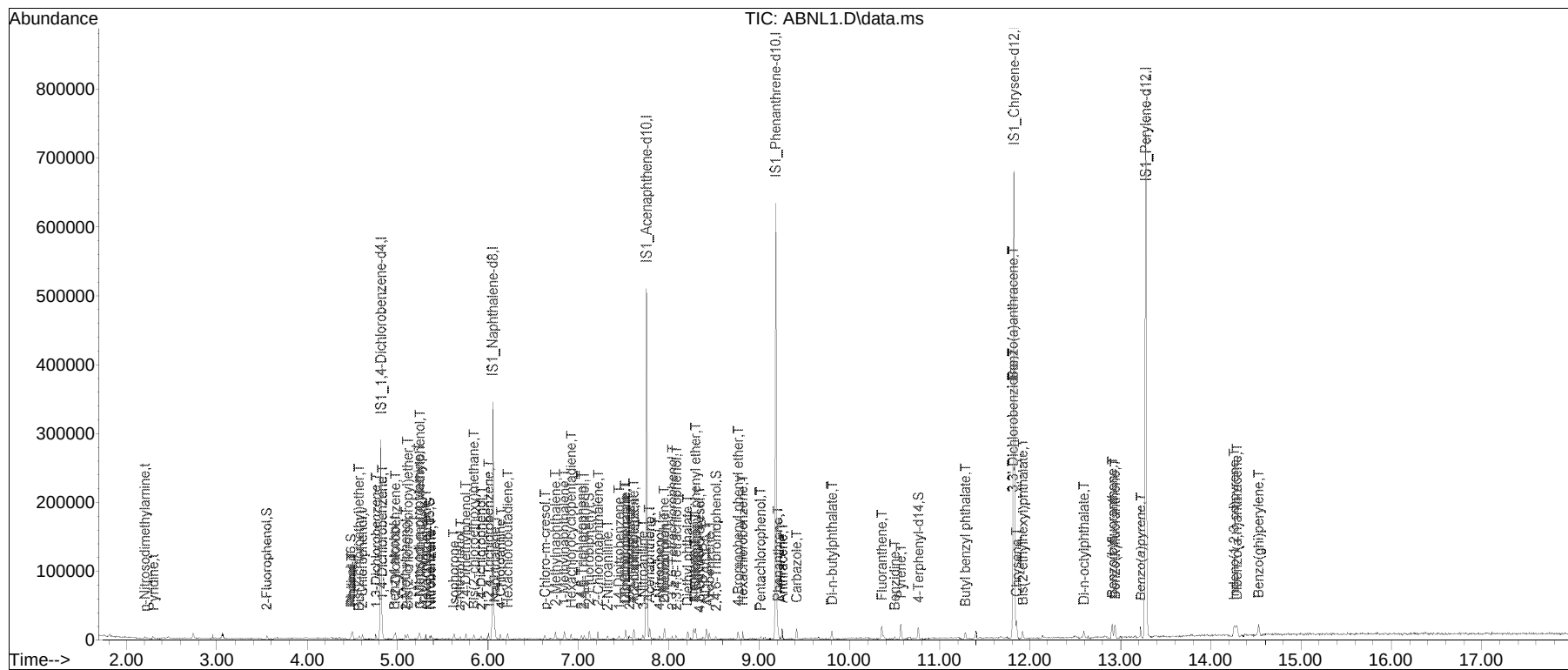
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
Data File : ABNL1.D
Acq On : 16 Apr 2025 8:27 pm
Operator : Dakota:HNY
Sample : IL10,32,,ABNL0.1 Lot# 11540
Misc : WG2055280
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 17 15:21:11 2025
Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Apr 17 14:28:59 2025
Response via : Initial Calibration

Sub List : ~~ABNica\8270ABNakod\850416~~VERTICAL\AP9L6.D•

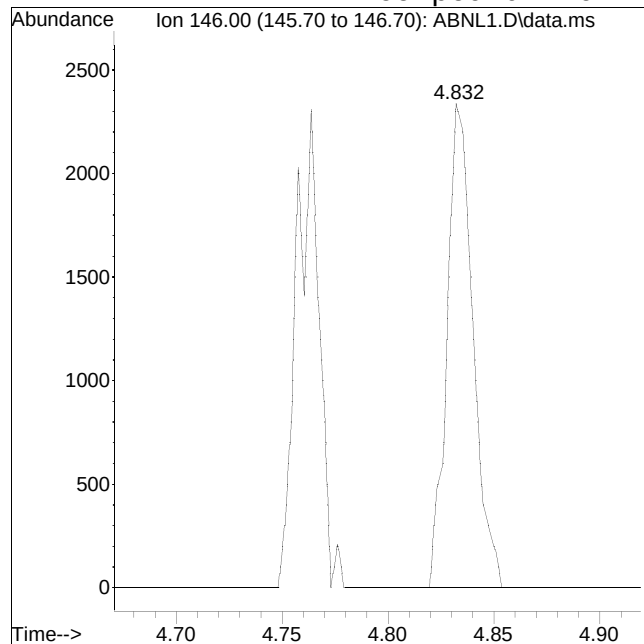


Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICOM
Data File : ABNL1.D
Date Inj'd : 4/16/2025 8:27 pm
Sample : IL10,32,,ABNL0.1 Lot# 11540

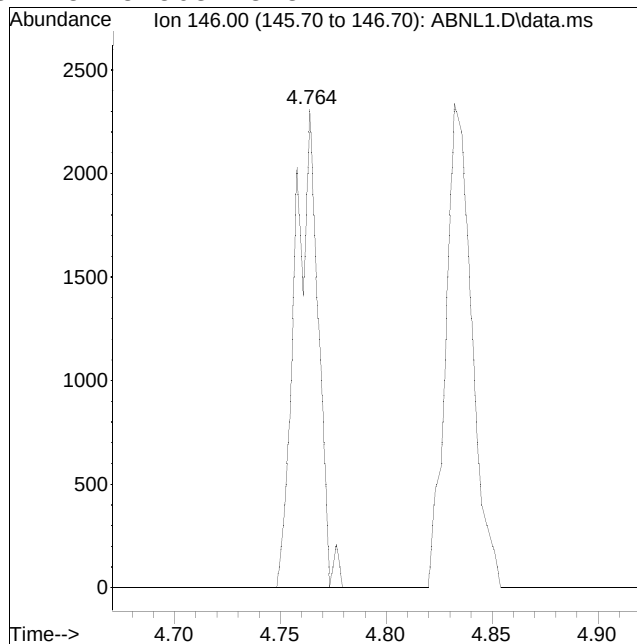
Method : FS250416RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 4/17/2025 3:22 pm

Compound #10: 1,3-Dichlorobenzene



Original Peak Response = 1996

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

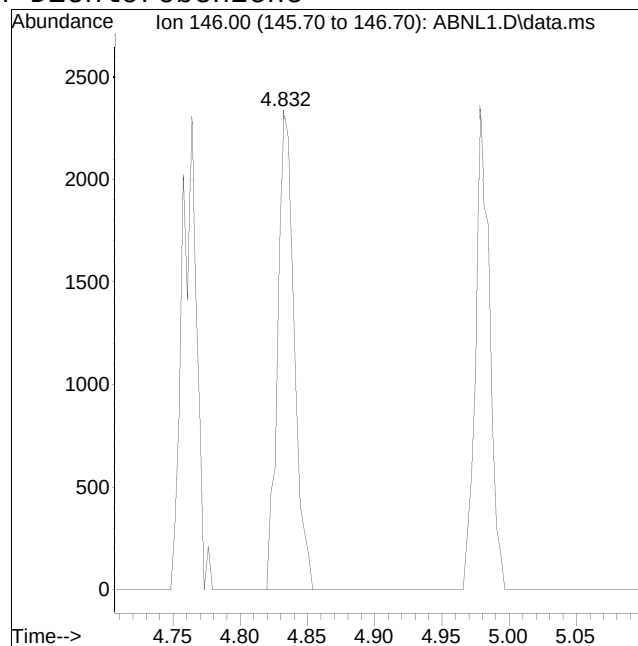
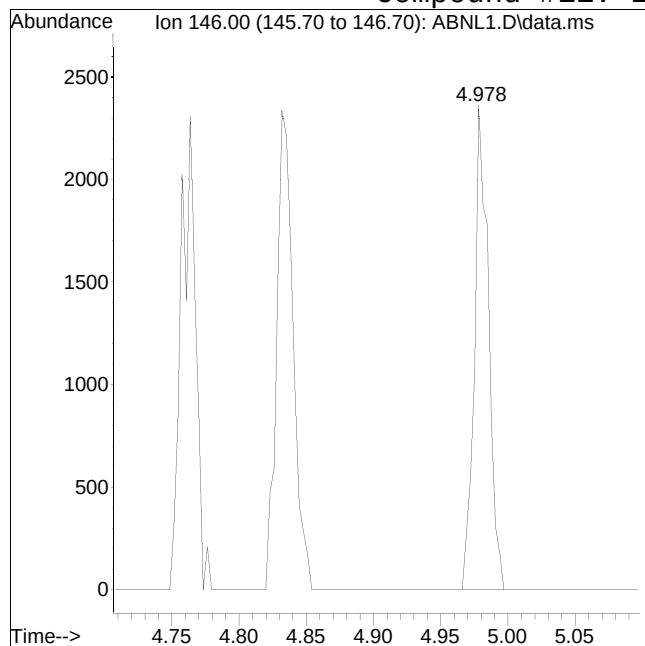


Manual Peak Response = 1752 M3

Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQ\data.ms
Data File : ABNL1.D
Date Inj'd : 4/16/2025 8:27 pm
Sample : IL10,32,,ABNL0.1 Lot# 11540
Method : FS250416RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 4/17/2025 3:22 pm

Compound #11: 1,4-Dichlorobenzene



Original Peak Response = 1716

Manual Peak Response = 1996 M3

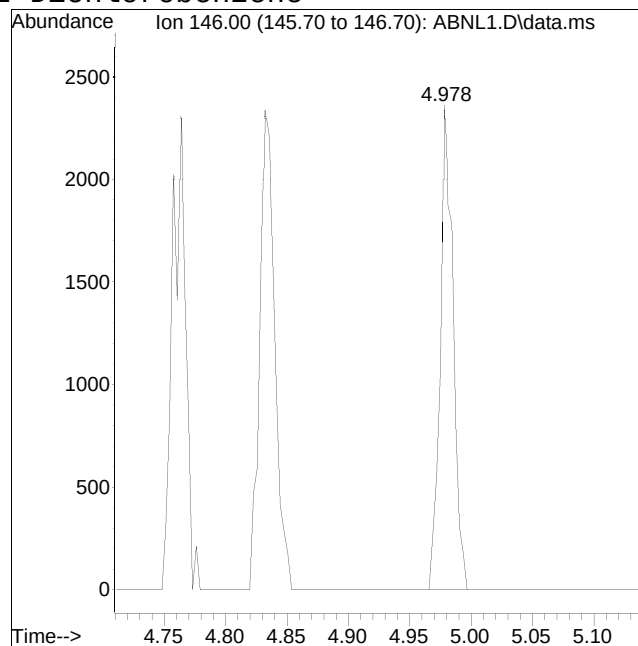
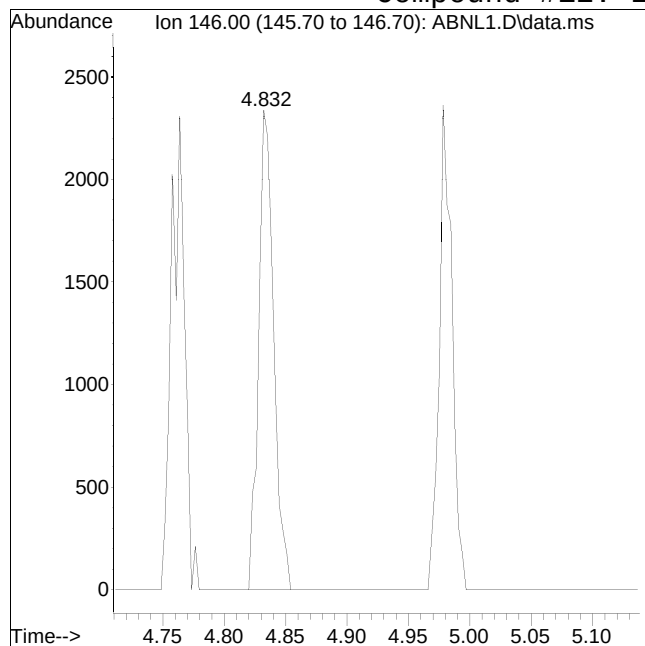
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQ\data.ms
Data File : ABNL1.D
Date Inj'd : 4/16/2025 8:27 pm
Sample : IL10,32,,ABNL0.1 Lot# 1154

Method : FS250416RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 4/17/2025 3:22 pm

Compound #12: 1,2-Dichlorobenzene



Original Peak Response = 1996

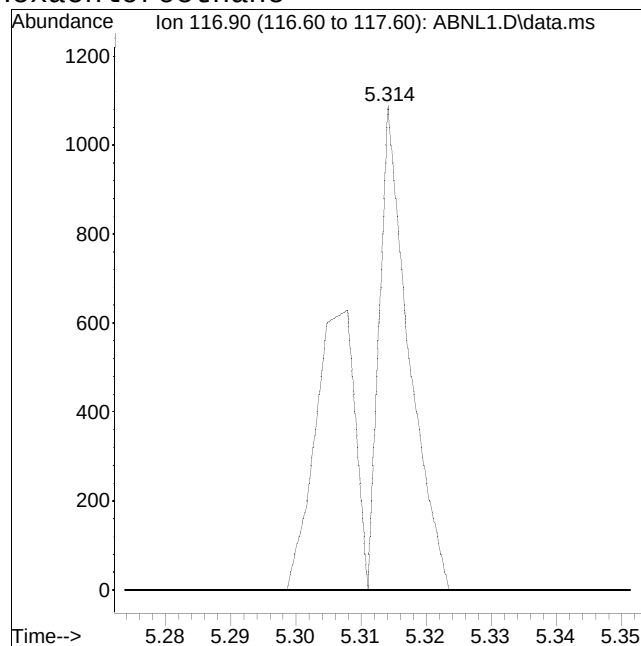
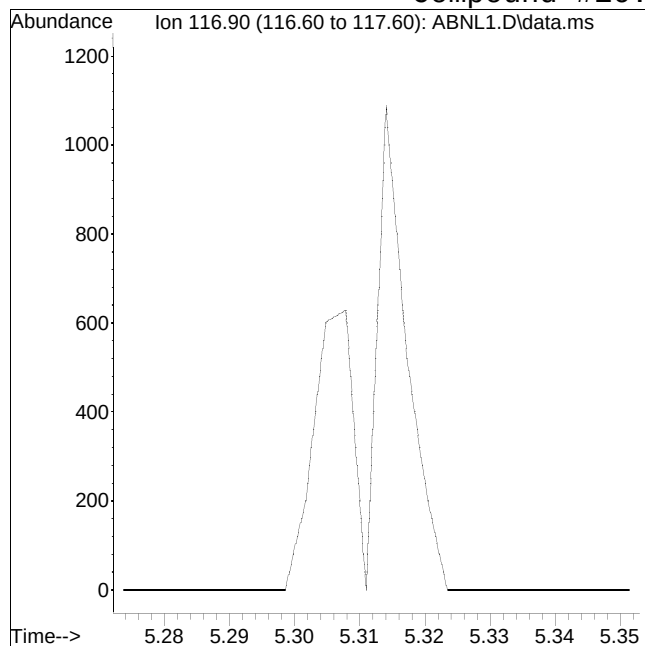
Manual Peak Response = 1716 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQ1
Data File : ABNL1.D
Date Inj'd : 4/16/2025 8:27 pm
Sample : IL10,32,,ABNL0.1 Lot# 11540
Method : FS250416RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 4/17/2025 3:22 pm

Compound #16: Hexachloroethane



Original Peak Response = 0

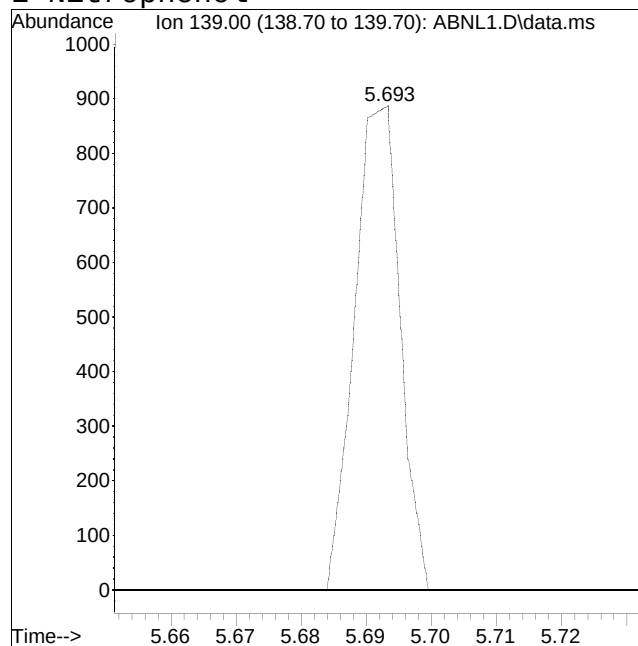
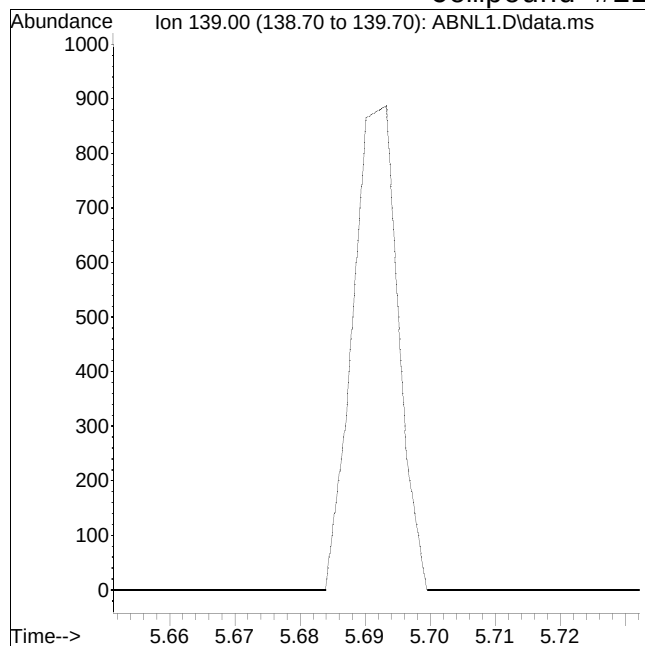
Manual Peak Response = 606 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQ\data.ms
Data File : ABNL1.D
Date Inj'd : 4/16/2025 8:27 pm
Sample : IL10,32,,ABNL0.1 Lot# 1154
Method : FS250416RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota

Compound #22: 2-Nitrophenol



Original Peak Response = 0

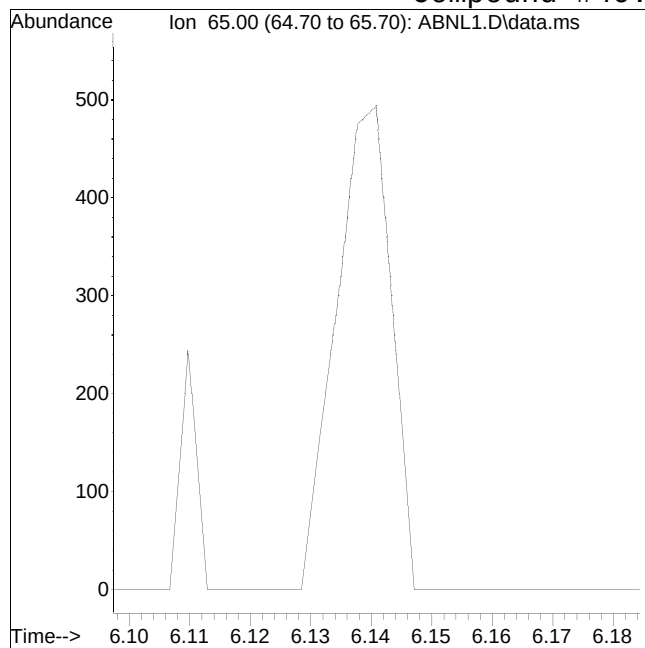
Manual Peak Response = 430 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

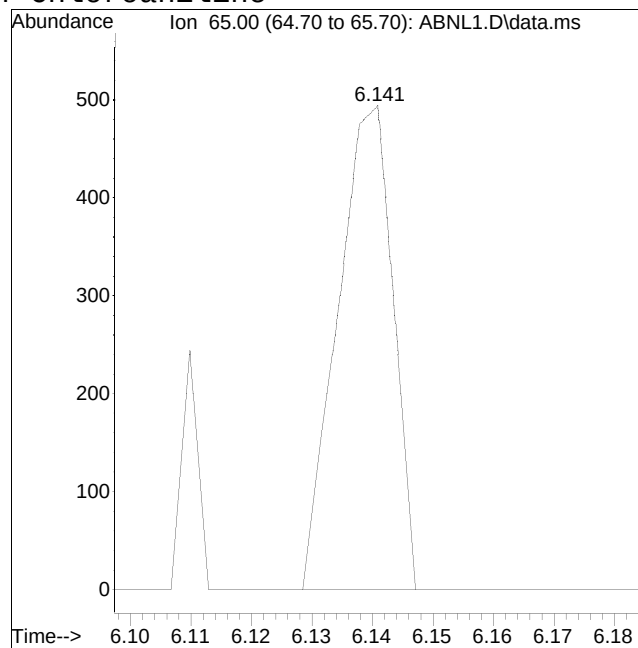
Data Path : I:\8270\Dakota\250416RVTICQMS
Data File : ABNL1.D
Date Inj'd : 4/16/2025 8:27 pm
Sample : IL10,32,,ABNL0.1 Lot# 11540
Method : FS250416RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 4/17/2025 3:22 pm

Compound #40: 4-Chloroaniline



Original Peak Response = 0

M2 = Peak not found by automatic integration algorithm.

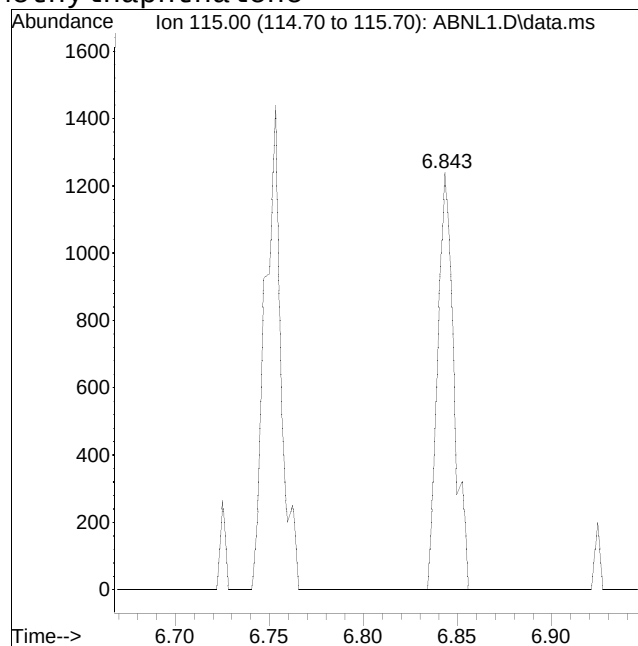
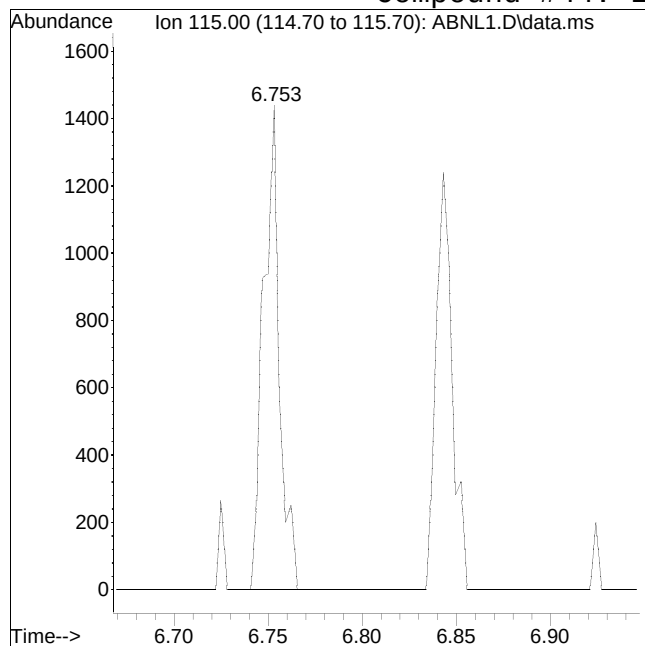


Manual Peak Response = 314 M2

Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQ1
Data File : ABNL1.D
Date Inj'd : 4/16/2025 8:27 pm
Sample : IL10,32,,ABNL0.1 Lot# 11540
Method : FS250416RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 4/17/2025 3:22 pm

Compound #44: 1-Methylnaphthalene



Original Peak Response = 847

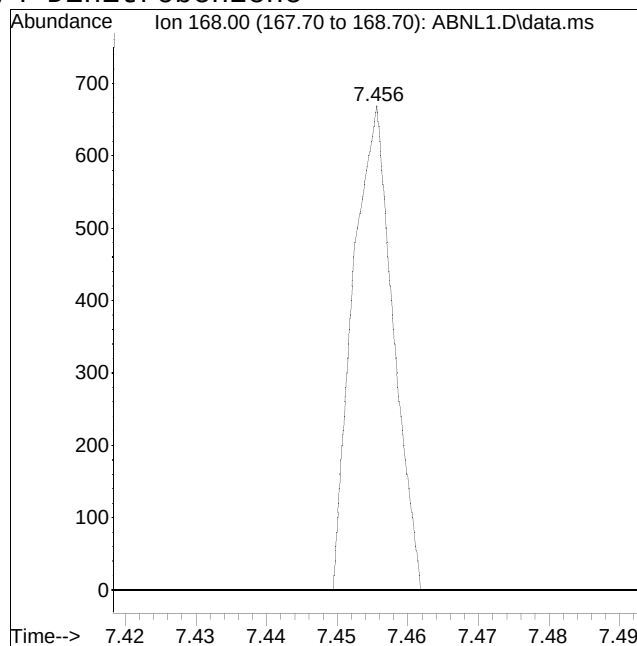
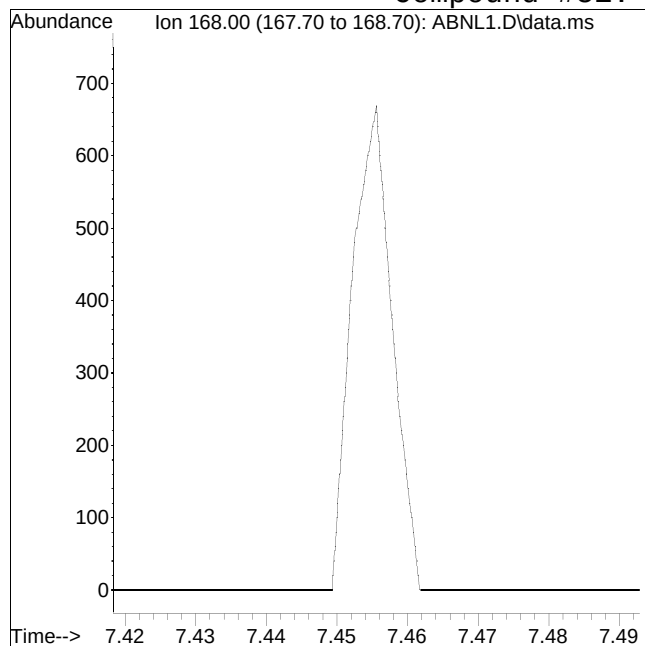
Manual Peak Response = 746 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQ1
Data File : ABNL1.D
Date Inj'd : 4/16/2025 8:27 pm
Sample : IL10,32,,ABNL0.1 Lot# 11540
Method : FS250416RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 4/17/2025 3:22 pm

Compound #51: 1,4-Dinitrobenzene



Original Peak Response = 0

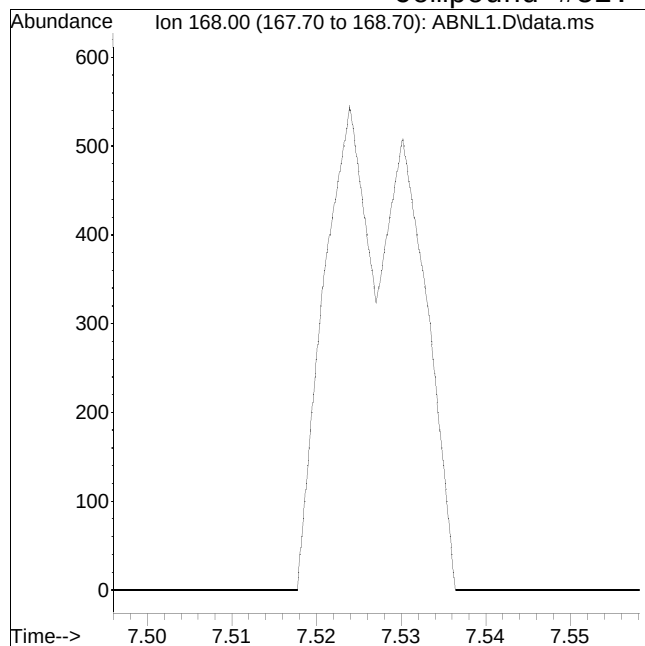
Manual Peak Response = 263 M2

M2 = Peak not found by automatic integration algorithm.

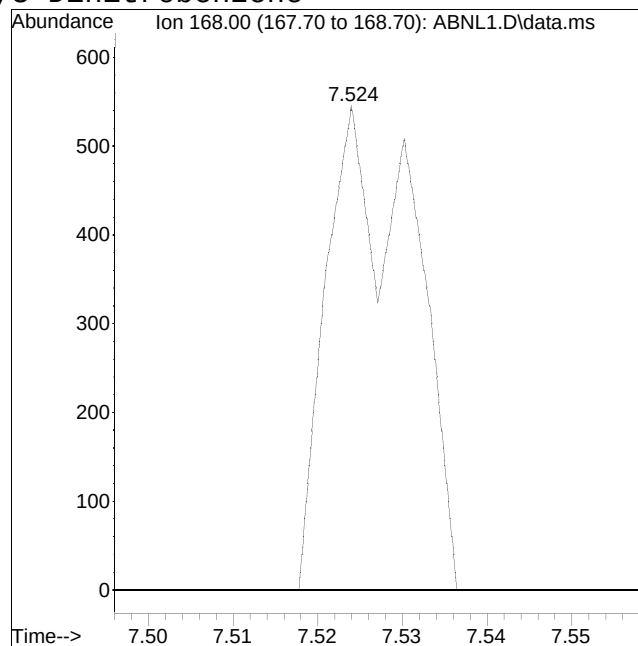
Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQ1
Data File : ABNL1.D
Date Inj'd : 4/16/2025 8:27 pm
Sample : IL10,32,,ABNL0.1 Lot# 11540
Method : FS250416RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 4/17/2025 3:22 pm

Compound #52: 1,3-Dinitrobenzene



Original Peak Response = 0



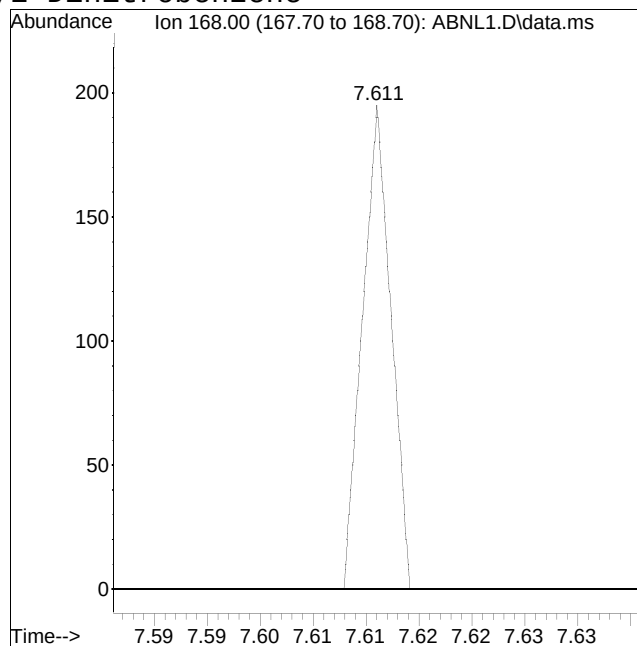
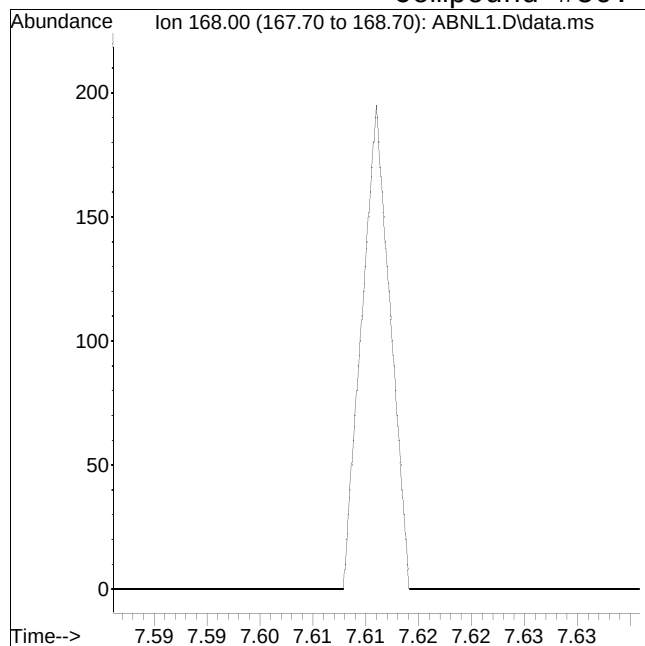
Manual Peak Response = 381 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQ\data.ms
Data File : ABNL1.D
Date Inj'd : 4/16/2025 8:27 pm
Sample : IL10,32,,ABNL0.1 Lot# 11540
Method : FS250416RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 4/17/2025 3:22 pm

Compound #56: 1,2-Dinitrobenzene



Original Peak Response = 0

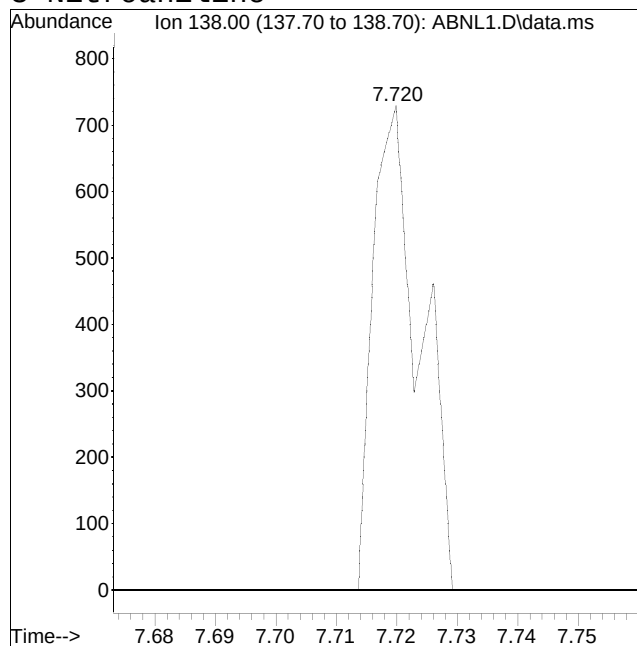
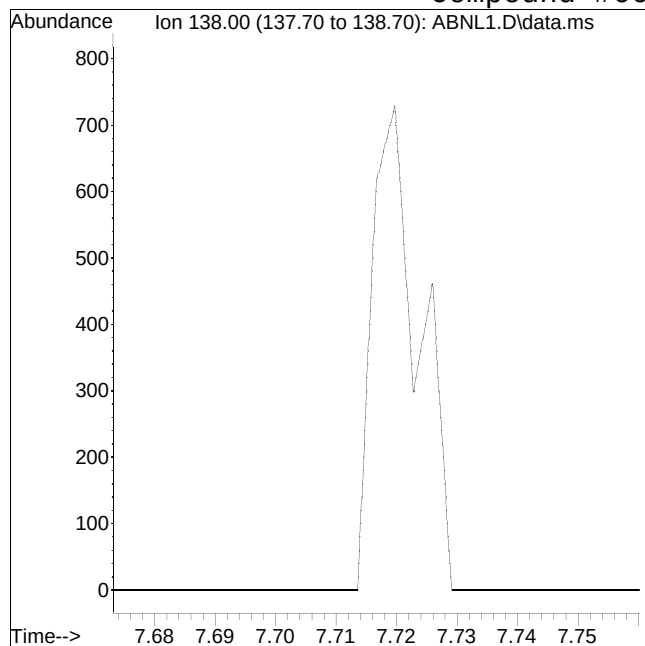
Manual Peak Response = 36 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQ\data.ms
Data File : ABNL1.D
Date Inj'd : 4/16/2025 8:27 pm
Sample : IL10,32,,ABNL0.1 Lot# 11540
Method : FS250416RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 4/17/2025 3:22 pm

Compound #66: 3-Nitroaniline



Original Peak Response = 0

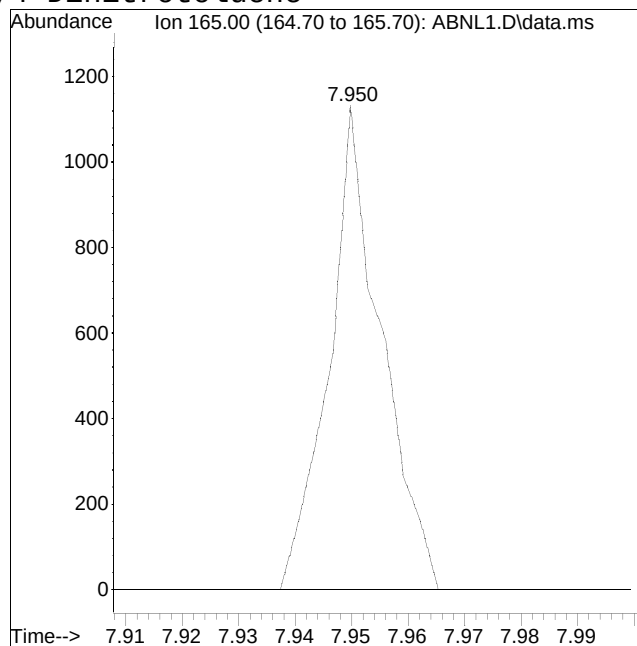
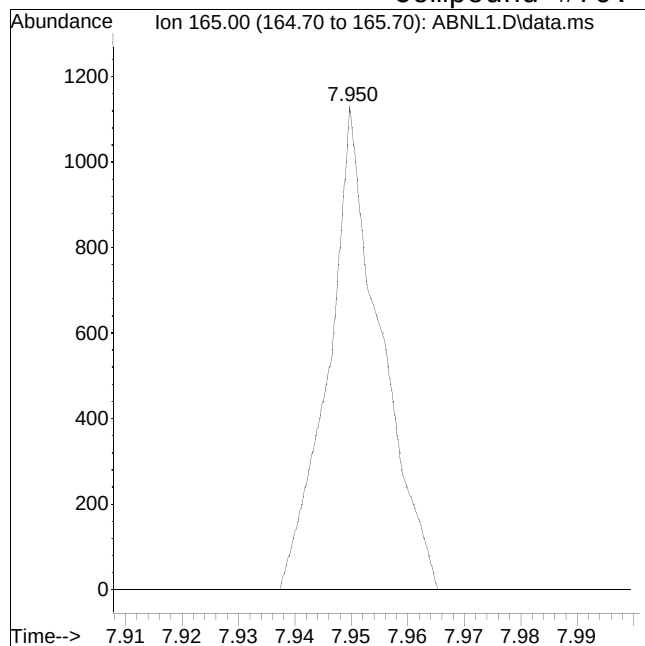
Manual Peak Response = 392 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQ1
Data File : ABNL1.D
Date Inj'd : 4/16/2025 8:27 pm
Sample : IL10,32,,ABNL0.1 Lot# 11540
Method : FS250416RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 4/17/2025 3:22 pm

Compound #70: 2,4-Dinitrotoluene



Original Peak Response = 725

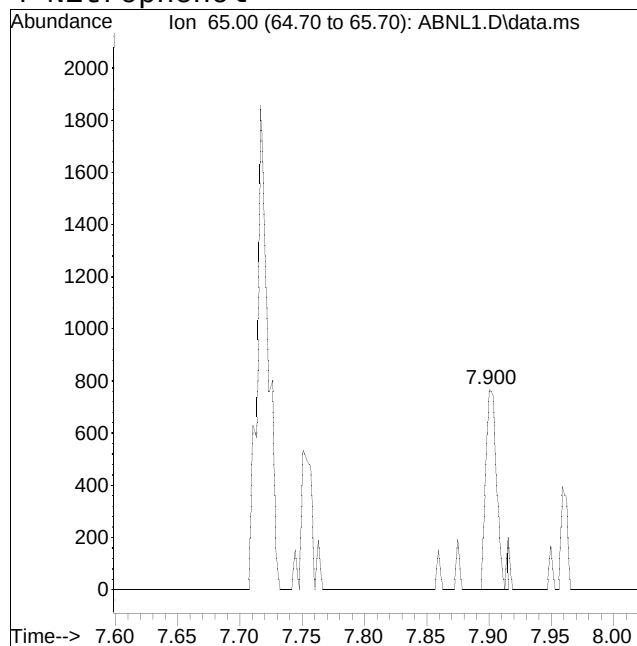
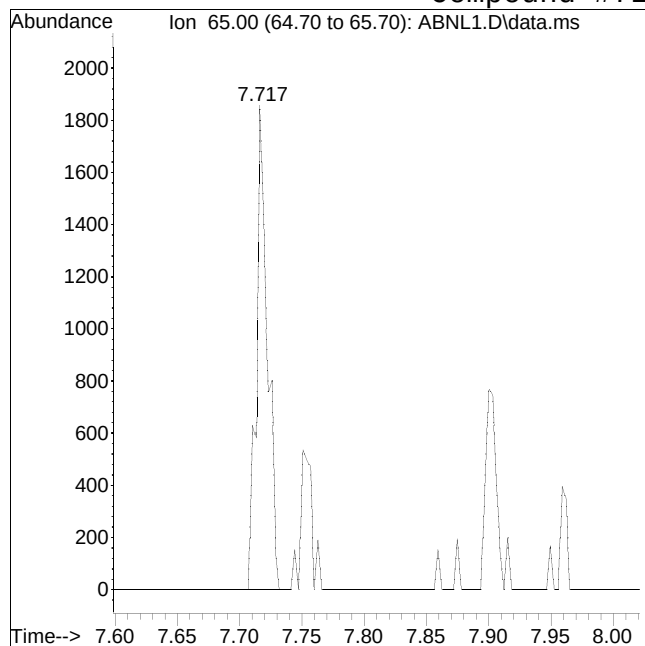
Manual Peak Response = 725 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQ1
Data File : ABNL1.D
Date Inj'd : 4/16/2025 8:27 pm
Sample : IL10,32,,ABNL0.1 Lot# 11540
Method : FS250416RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 4/17/2025 3:22 pm

Compound #71: 4-Nitrophenol



Original Peak Response = 1150

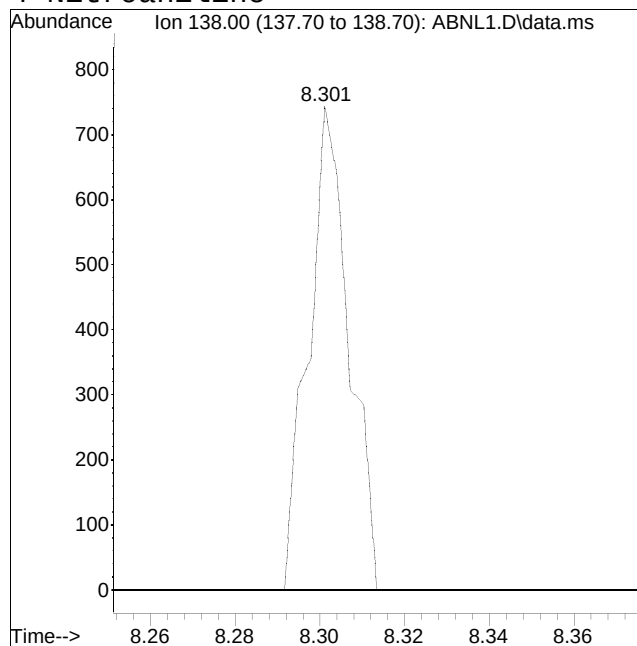
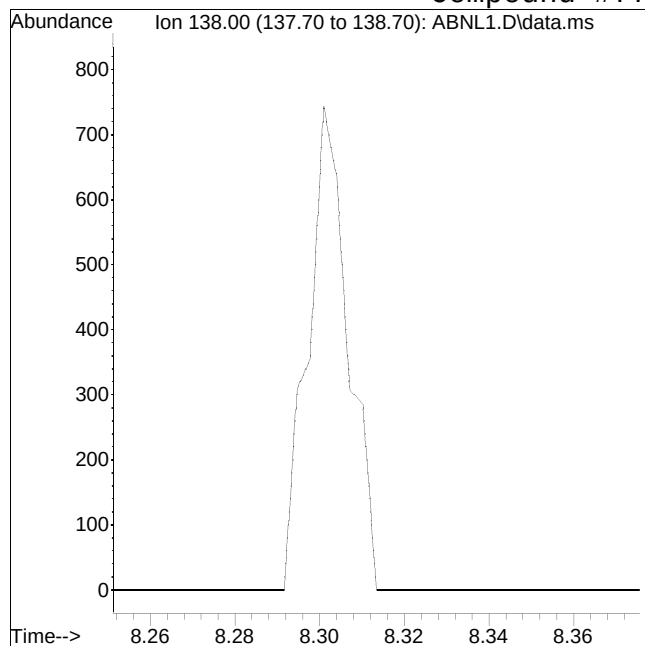
Manual Peak Response = 497 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQ\data.ms
Data File : ABNL1.D
Date Inj'd : 4/16/2025 8:27 pm
Sample : IL10,32,,ABNL0.1 Lot# 11540
Method : FS250416RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 4/17/2025 3:22 pm

Compound #77: 4-Nitroaniline



Original Peak Response = 0

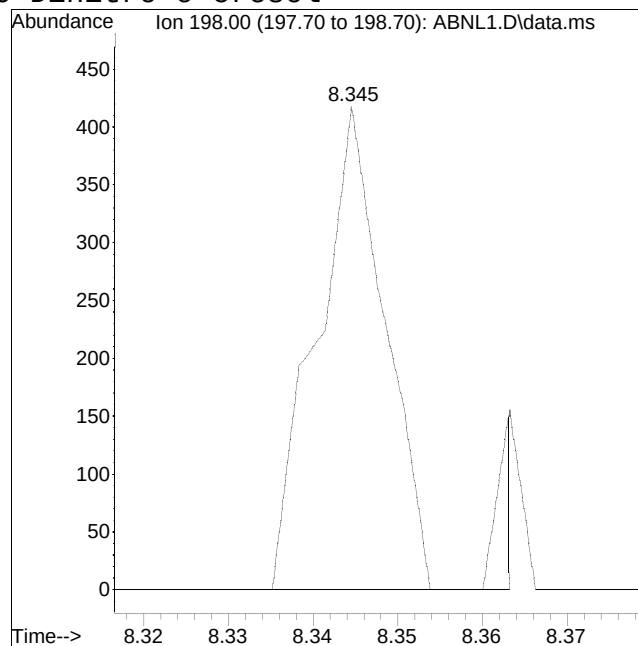
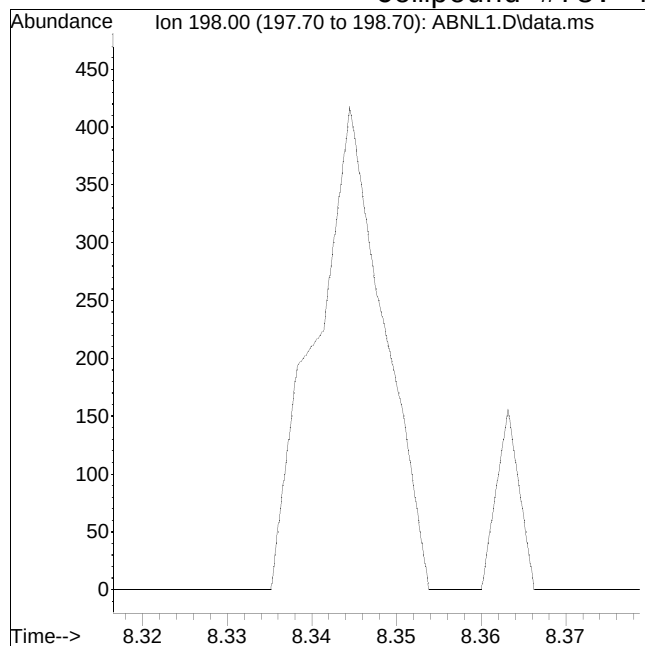
Manual Peak Response = 492 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQ\data.ms
Data File : ABNL1.D
Date Inj'd : 4/16/2025 8:27 pm
Sample : IL10,32,,ABNL0.1 Lot# 11540
Method : FS250416RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 4/17/2025 3:22 pm

Compound #78: 4,6-Dinitro-o-cresol



Original Peak Response = 0

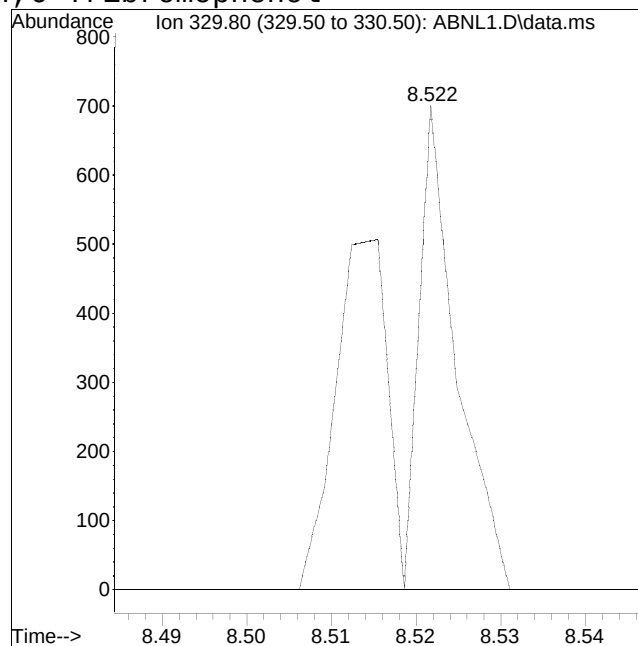
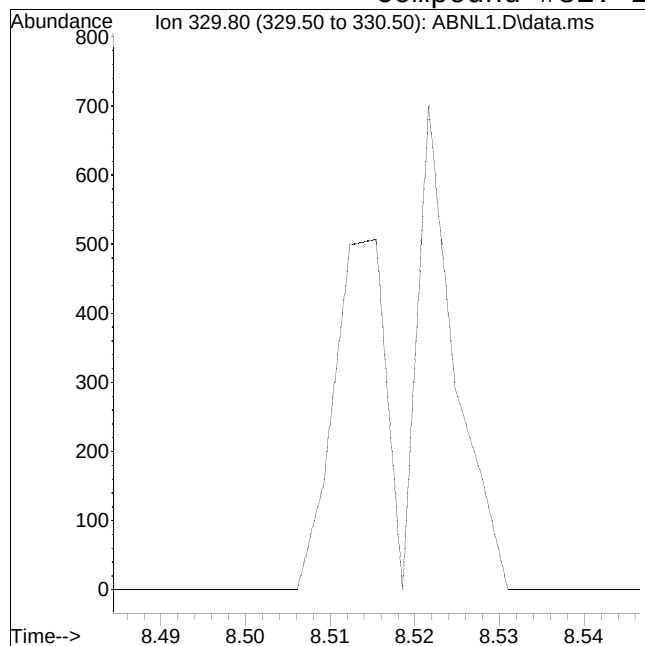
Manual Peak Response = 262 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQMS
Data File : ABNL1.D
Date Inj'd : 4/16/2025 8:27 pm
Sample : IL10,32,,ABNL0.1 Lot# 11540
Method : FS250416RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 4/17/2025 3:22 pm

Compound #81: 2,4,6-Tribromophenol



Original Peak Response = 0

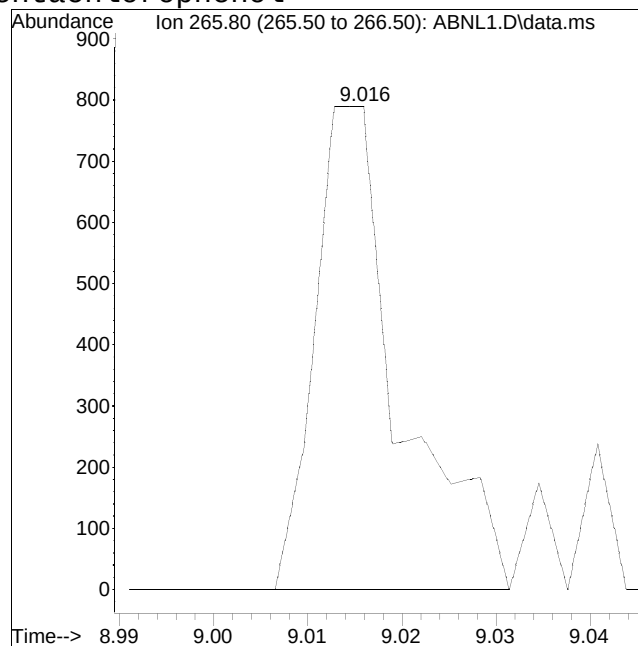
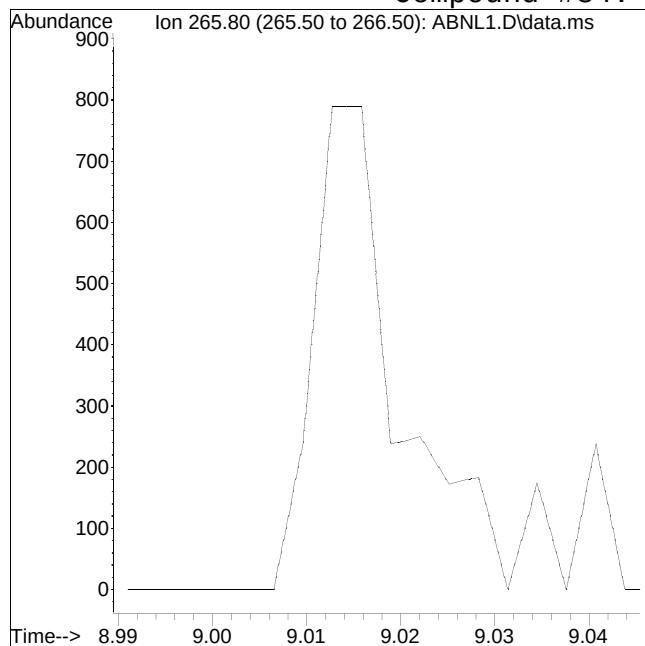
Manual Peak Response = 432 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQ\data.ms
Data File : ABNL1.D
Date Inj'd : 4/16/2025 8:27 pm
Sample : IL10,32,,ABNL0.1 Lot# 11540
Method : FS250416RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 4/17/2025 3:22 pm

Compound #84: Pentachlorophenol



Original Peak Response = 0

Manual Peak Response = 496 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : AP9L9.D
 Acq On : 16 Apr 2025 8:49 pm
 Operator : Dakota:HNY
 Sample : IL2,32,,AP9L50 Lot# 11541
 Misc : WG2055280
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 17 15:26:04 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.820	152	38162	4.000	ug/ml	0.00
Standard Area 3 = 36805			Recovery =	103.69%		
57) IS2_Naphthalene-d8	6.051	136	138245	4.000	ug/ml	# 0.00
Standard Area 3 = 123208			Recovery =	112.20%		
85) IS2_Acenaphthene-d10	7.754	164	97397	4.000	ug/ml	0.00
Standard Area 3 = 84975			Recovery =	114.62%		
100) IS2_Phenanthrene-d10	9.184	188	213130	4.000	ug/ml	0.00
Standard Area 3 = 185606			Recovery =	114.83%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.385	105	428402	53.502	ug/ml	94
29) Acetophenone	5.218	105	773297	54.715	ug/ml#	86
30) m-Toluidine	5.299	106	791839	55.692	ug/ml	95
31) 2-Chloroaniline	5.659	127	711480	57.004	ug/ml	96
58) a-Terpineol	6.113	59	562883	56.069	ug/ml	91
59) 3-Chloroaniline	6.122	65	273151	53.194	ug/ml	77
60) 2,6-Dichlorophenol	6.150	162	634431	55.782	ug/ml#	85
61) 1-chloro-2-nitrobenzene	6.405	111	260091	54.065	ug/ml#	1
62) Caprolactam	6.458	55	328731	56.252	ug/ml#	83
63) 1,2,4,5-Tetrachloroben...	6.921	216	789429	51.455	ug/ml	98
64) Biphenyl	7.213	154	1695195	51.616	ug/ml	98
86) Dichloran	8.882	206	290598	58.176	ug/ml#	57
87) Pentachloronitrobenzene	9.031	237	256732	57.160	ug/ml#	79
101) Diphenamid	10.088	167	1456434	58.685	ug/ml#	79

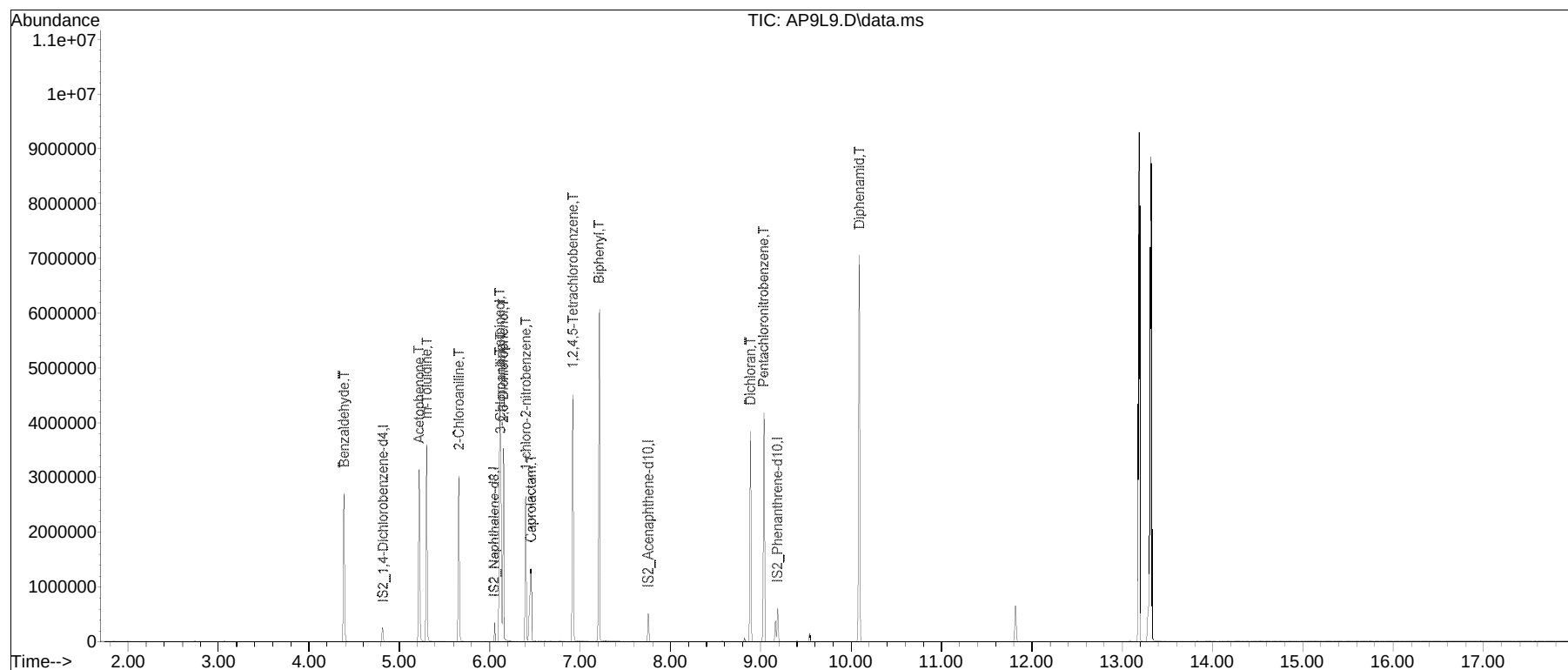
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : AP9L9.D
 Acq On : 16 Apr 2025 8:49 pm
 Operator : Dakota:HNY
 Sample : IL2,32,,AP9L50 Lot# 11541
 Misc : WG2055280
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 17 15:26:04 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

Sub List : ~~AP9L6.D~~ I:\8270\Dakota\250416RVTICAL\AP9L6.D



Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICOM\Method : FS250416RVT_Dakota.m
Data File : AP9L9.D Operator : Dakota:HNY
Date Inj'd : 4/16/2025 8:49 pm Instrument : Dakota
Sample : IL2,32,,AP9L50 Lot# 11541 Quant Date : 4/17/2025 3:26 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : AP9L8.D
 Acq On : 16 Apr 2025 9:12 pm
 Operator : Dakota:HNY
 Sample : IL3,32,,AP9L25 Lot# 11542
 Misc : WG2055280
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 17 15:25:52 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.817	152	37028	4.000	ug/ml	0.00
Standard Area 3 = 36805			Recovery =	100.61%		
57) IS2_Naphthalene-d8	6.051	136	126472	4.000	ug/ml	# 0.00
Standard Area 3 = 123208			Recovery =	102.65%		
85) IS2_Acenaphthene-d10	7.754	164	89634	4.000	ug/ml	0.00
Standard Area 3 = 84975			Recovery =	105.48%		
100) IS2_Phenanthrene-d10	9.184	188	199960	4.000	ug/ml	0.00
Standard Area 3 = 185606			Recovery =	107.73%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.385	105	198874	25.598	ug/ml	91
29) Acetophenone	5.215	105	356728	26.013	ug/ml#	87
30) m-Toluidine	5.295	106	368010	26.676	ug/ml	94
31) 2-Chloroaniline	5.656	127	329455	27.204	ug/ml	95
58) a-Terpineol	6.110	59	256787	27.960	ug/ml	93
59) 3-Chloroaniline	6.119	65	126570	26.943	ug/ml	78
60) 2,6-Dichlorophenol	6.147	162	286320	27.518	ug/ml#	85
61) 1-chloro-2-nitrobenzene	6.402	111	117032	26.592	ug/ml#	1
62) Caprolactam	6.445	55	148231	27.726	ug/ml#	82
63) 1,2,4,5-Tetrachloroben...	6.918	216	360195	25.663	ug/ml	98
64) Biphenyl	7.210	154	777479	25.877	ug/ml	98
86) Dichloran	8.879	206	131297	28.561	ug/ml#	57
87) Pentachloronitrobenzene	9.031	237	119056	28.803	ug/ml#	77
101) Diphenamid	10.085	167	680768	29.238	ug/ml#	78

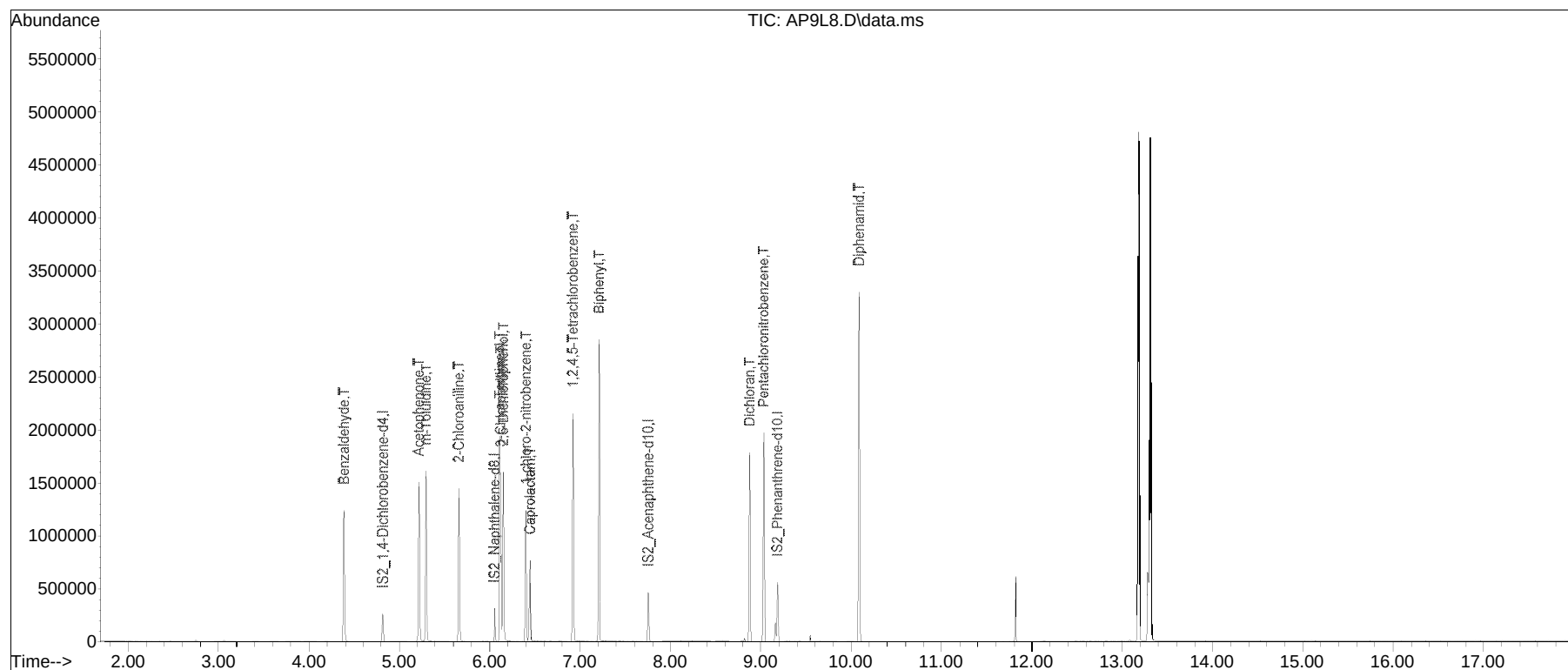
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : AP9L8.D
 Acq On : 16 Apr 2025 9:12 pm
 Operator : Dakota:HNY
 Sample : IL3,32,,AP9L25 Lot# 11542
 Misc : WG2055280
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 17 15:25:52 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

Sub List : ~~AP9L6.D~~ I:\8270\Dakota\250416RVTICAL\AP9L6.D



Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICOM\Method : FS250416RVT_Dakota.m
Data File : AP9L8.D Operator : Dakota:HNY
Date Inj'd : 4/16/2025 9:12 pm Instrument : Dakota
Sample : IL3,32,,AP9L25 Lot# 11542 Quant Date : 4/17/2025 3:26 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : AP9L7.D
 Acq On : 16 Apr 2025 9:35 pm
 Operator : Dakota:HNY
 Sample : IL4,32,,AP9L10 Lot# 11543
 Misc : WG2055280
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 17 15:25:40 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.817	152	37270	4.000	ug/ml	0.00
Standard Area 3 = 36805			Recovery =	101.26%		
57) IS2_Naphthalene-d8	6.054	136	129769	4.000	ug/ml	# 0.00
Standard Area 3 = 123208			Recovery =	105.33%		
85) IS2_Acenaphthene-d10	7.754	164	92392	4.000	ug/ml	0.00
Standard Area 3 = 84975			Recovery =	108.73%		
100) IS2_Phenanthrene-d10	9.184	188	203735	4.000	ug/ml	0.00
Standard Area 3 = 185606			Recovery =	109.77%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	4.385	105	84012	10.743	ug/ml	94
29) Acetophenone	5.215	105	147750	10.704	ug/ml#	85
30) m-Toluidine	5.295	106	146332	10.538	ug/ml	95
31) 2-Chloroaniline	5.656	127	135972	11.155	ug/ml	95
58) a-Terpineol	6.107	59	105528	11.198	ug/ml	92
59) 3-Chloroaniline	6.119	65	50096	10.393	ug/ml	84
60) 2,6-Dichlorophenol	6.147	162	116542	10.916	ug/ml#	85
61) 1-chloro-2-nitrobenzene	6.402	111	48037	10.638	ug/ml#	1
62) Caprolactam	6.439	55	58653	10.692	ug/ml#	86
63) 1,2,4,5-Tetrachloroben...	6.918	216	150300	10.436	ug/ml#	97
64) Biphenyl	7.210	154	326547	10.592	ug/ml	98
86) Dichloran	8.879	206	47244	9.970	ug/ml#	59
87) Pentachloronitrobenzene	9.031	237	46809	10.986	ug/ml#	78
101) Diphenamid	10.082	167	262810	11.078	ug/ml#	79

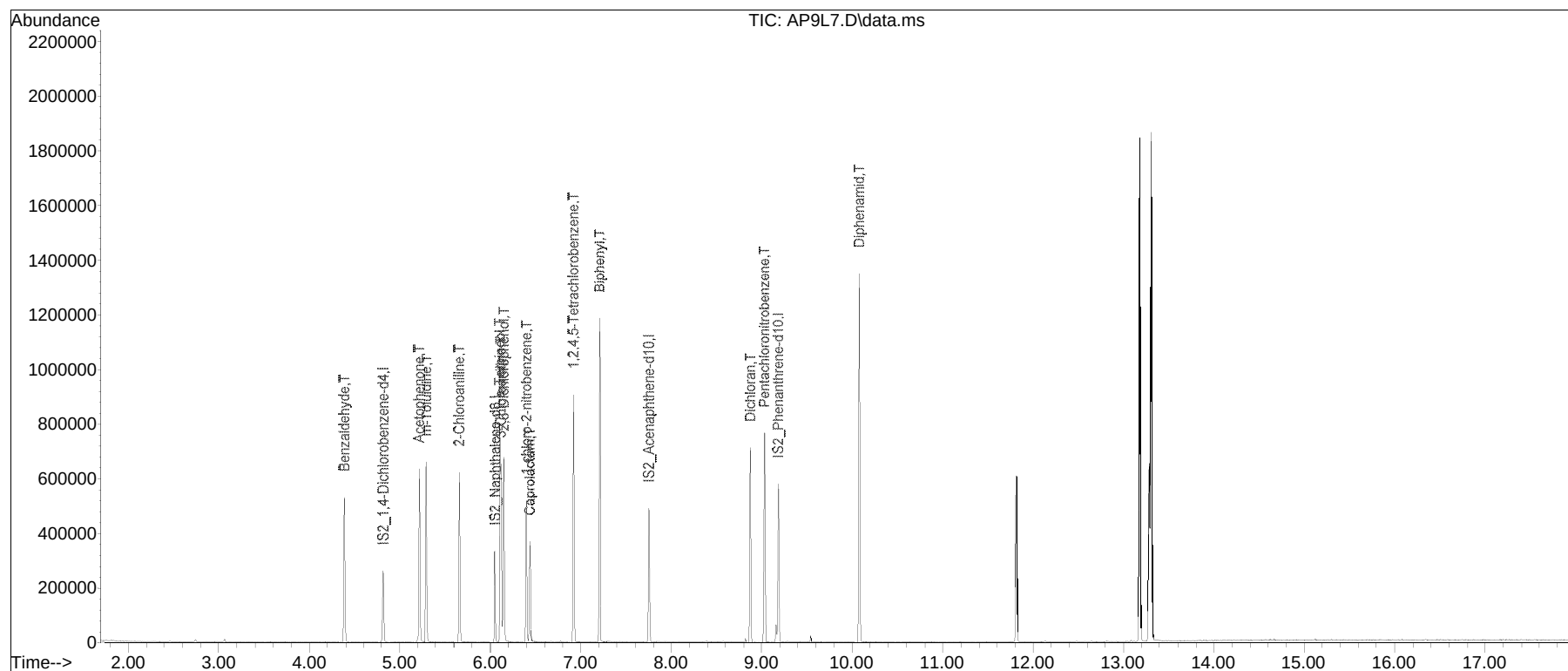
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : AP9L7.D
 Acq On : 16 Apr 2025 9:35 pm
 Operator : Dakota:HNY
 Sample : IL4,32,,AP9L10 Lot# 11543
 Misc : WG2055280
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 17 15:25:40 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

Sub List : ~~AP9L7.D~~ I:\8270\Dakota\250416RVTICAL\AP9L6.D•



Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICOM\Method : FS250416RVT_Dakota.m
Data File : AP9L7.D Operator : Dakota:HNY
Date Inj'd : 4/16/2025 9:35 pm Instrument : Dakota
Sample : IL4,32,,AP9L10 Lot# 11543 Quant Date : 4/17/2025 3:26 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : AP9L6.D
 Acq On : 16 Apr 2025 9:57 pm
 Operator : Dakota:HNY
 Sample : IL5,32,,AP9L5 Lot# 11544
 Misc : WG2055280
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 17 15:25:30 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.820	152	36805	4.000	ug/ml	0.00
Standard Area 3 = 36805			Recovery =	100.00%		
57) IS2_Naphthalene-d8	6.054	136	123208	4.000	ug/ml	# 0.00
Standard Area 3 = 123208			Recovery =	100.00%		
85) IS2_Acenaphthene-d10	7.754	164	84975	4.000	ug/ml	0.00
Standard Area 3 = 84975			Recovery =	100.00%		
100) IS2_Phenanthrene-d10	9.184	188	185606	4.000	ug/ml	0.00
Standard Area 3 = 185606			Recovery =	100.00%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	4.385	105	40073	5.189	ug/ml	96
29) Acetophenone	5.215	105	69993	5.135	ug/ml#	86
30) m-Toluidine	5.295	106	68459	4.992	ug/ml	92
31) 2-Chloroaniline	5.656	127	61819	5.136	ug/ml	95
58) a-Terpineol	6.107	59	47813	5.344	ug/ml	93
59) 3-Chloroaniline	6.119	65	23393	5.112	ug/ml	79
60) 2,6-Dichlorophenol	6.147	162	53798	5.308	ug/ml#	85
61) 1-chloro-2-nitrobenzene	6.399	111	22431	5.232	ug/ml#	1
62) Caprolactam	6.436	55	24949	4.790	ug/ml#	85
63) 1,2,4,5-Tetrachloroben...	6.918	216	67155	4.911	ug/ml	95
64) Biphenyl	7.210	154	150195	5.131	ug/ml	97
86) Dichloran	8.879	206	20205	4.636	ug/ml#	56
87) Pentachloronitrobenzene	9.028	237	20878	5.328	ug/ml#	78
101) Diphenamid	10.082	167	116335	5.383	ug/ml#	78

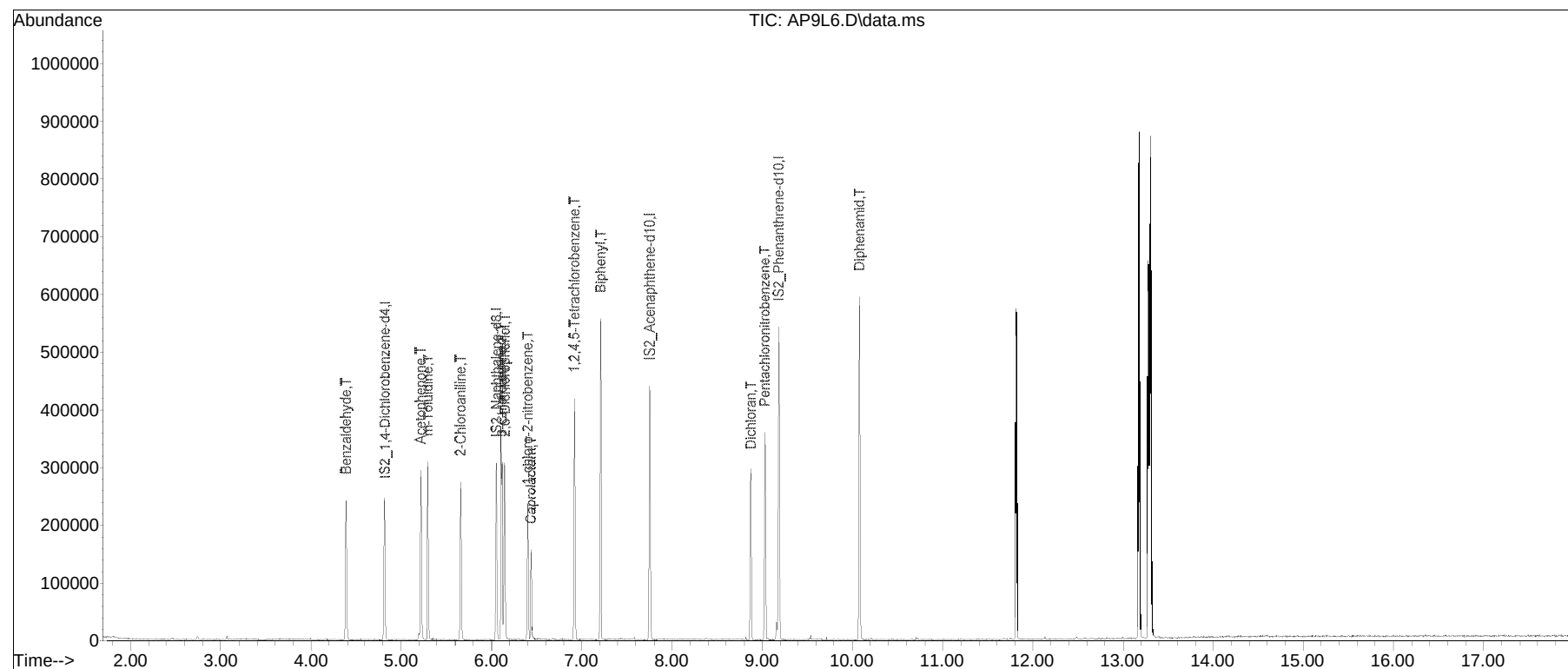
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : AP9L6.D
 Acq On : 16 Apr 2025 9:57 pm
 Operator : Dakota:HNY
 Sample : IL5,32,,AP9L5 Lot# 11544
 Misc : WG2055280
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 17 15:25:30 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

Sub List : ~~AP9L6.D~~ I:\8270\Dakota\250416RVTICAL\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\250416RVTICOM	Method	: FS250416RVT_Dakota.m
Data File	: AP9L6.D	Operator	: Dakota:HNY
Date Inj'd	: 4/16/2025 9:57 pm	Instrument	: Dakota
Sample	: IL5,32,,AP9L5 Lot# 11544	Quant Date	: 4/17/2025 3:26 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : AP9L5.D
 Acq On : 16 Apr 2025 10:20 pm
 Operator : Dakota:HNY
 Sample : IL6,32,,AP9L2.5 Lot# 11545
 Misc : WG2055280
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 17 15:25:20 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.817	152	36425	4.000	ug/ml	0.00
Standard Area 3 = 36805			Recovery =	98.97%		
57) IS2_Naphthalene-d8	6.054	136	124727	4.000	ug/ml	# 0.00
Standard Area 3 = 123208			Recovery =	101.23%		
85) IS2_Acenaphthene-d10	7.754	164	85189	4.000	ug/ml	0.00
Standard Area 3 = 84975			Recovery =	100.25%		
100) IS2_Phenanthrene-d10	9.184	188	188300	4.000	ug/ml	0.00
Standard Area 3 = 185606			Recovery =	101.45%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.385	105	19590	2.563	ug/ml	92
29) Acetophenone	5.218	105	34843	2.583	ug/ml#	88
30) m-Toluidine	5.298	106	31760	2.340	ug/ml#	91
31) 2-Chloroaniline	5.656	127	32423	2.722	ug/ml	95
58) a-Terpineol	6.107	59	22688	2.505	ug/ml#	85
59) 3-Chloroaniline	6.119	65	11490	2.480	ug/ml	80
60) 2,6-Dichlorophenol	6.147	162	26925	2.624	ug/ml#	87
61) 1-chloro-2-nitrobenzene	6.399	111	11015	2.538	ug/ml#	1
62) Caprolactam	6.436	55	11706	2.220	ug/ml#	84
63) 1,2,4,5-Tetrachloroben...	6.918	216	35103	2.536	ug/ml	98
64) Biphenyl	7.210	154	76408	2.579	ug/ml	97
86) Dichloran	8.879	206	9458	2.165	ug/ml#	59
87) Pentachloronitrobenzene	9.031	237	10144	2.582	ug/ml#	79
101) Diphenamid	10.082	167	57619	2.628	ug/ml#	79

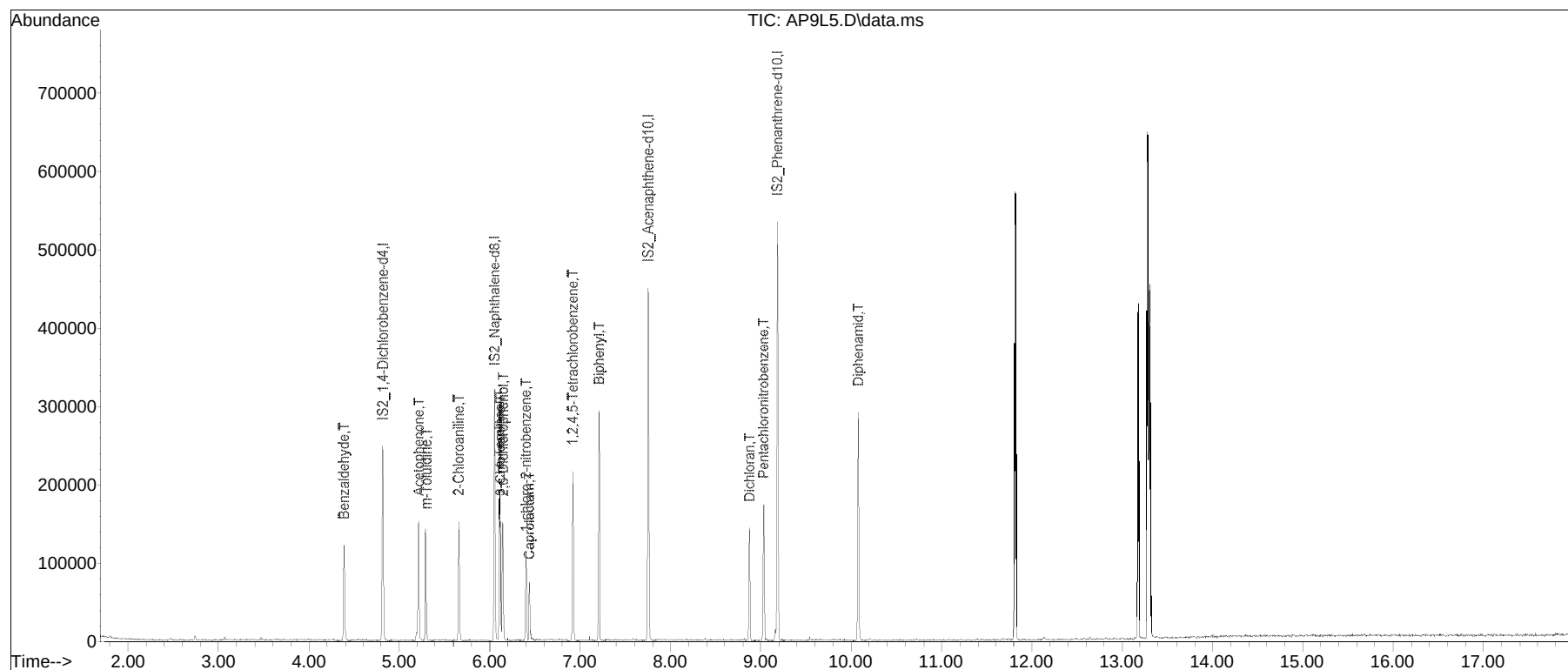
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : AP9L5.D
 Acq On : 16 Apr 2025 10:20 pm
 Operator : Dakota:HNY
 Sample : IL6,32,,AP9L2.5 Lot# 11545
 Misc : WG2055280
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 17 15:25:20 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

Sub List : ~~AP9L5.D~~ I:\8270\Dakota\250416RVTICAL\AP9L6.D•



Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQ\data
Data File : AP9L5.D
Date Inj'd : 4/16/2025 10:20 pm
Sample : IL6,32,,AP9L2.5 Lot# 11545
Method : FS250416RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 4/17/2025 3:26 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : AP9L4.D
 Acq On : 16 Apr 2025 10:42 pm
 Operator : Dakota:HNY
 Sample : IL7,32,,AP9L1 Lot# 11546
 Misc : WG2055280
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 17 15:25:08 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.817	152	38970	4.000	ug/ml	0.00
Standard Area 3 = 36805			Recovery =	105.88%		
57) IS2_Naphthalene-d8	6.051	136	126291	4.000	ug/ml	# 0.00
Standard Area 3 = 123208			Recovery =	102.50%		
85) IS2_Acenaphthene-d10	7.754	164	86460	4.000	ug/ml	0.00
Standard Area 3 = 84975			Recovery =	101.75%		
100) IS2_Phenanthrene-d10	9.184	188	188818	4.000	ug/ml	0.00
Standard Area 3 = 185606			Recovery =	101.73%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.385	105	9451	1.156	ug/ml	97
29) Acetophenone	5.218	105	15835	1.097	ug/ml#	84
30) m-Toluidine	5.298	106	12062	0.831	ug/ml	99
31) 2-Chloroaniline	5.656	127	13588	1.066	ug/ml	95
58) a-Terpineol	6.103	59	9991	1.089	ug/ml#	85
59) 3-Chloroaniline	6.119	65	5502	1.173	ug/ml#	67
60) 2,6-Dichlorophenol	6.147	162	11299	1.088	ug/ml#	86
61) 1-chloro-2-nitrobenzene	6.402	111	4810	1.094	ug/ml#	1
62) Caprolactam	6.436	55	4541	0.851	ug/ml#	86
63) 1,2,4,5-Tetrachloroben...	6.918	216	16059	1.146	ug/ml	95
64) Biphenyl	7.210	154	32706	1.090	ug/ml	99
86) Dichloran	8.876	206	4008	0.904	ug/ml#	55
87) Pentachloronitrobenzene	9.028	237	4041	1.014	ug/ml#	77
101) Diphenamid	10.082	167	21770	0.990	ug/ml#	77

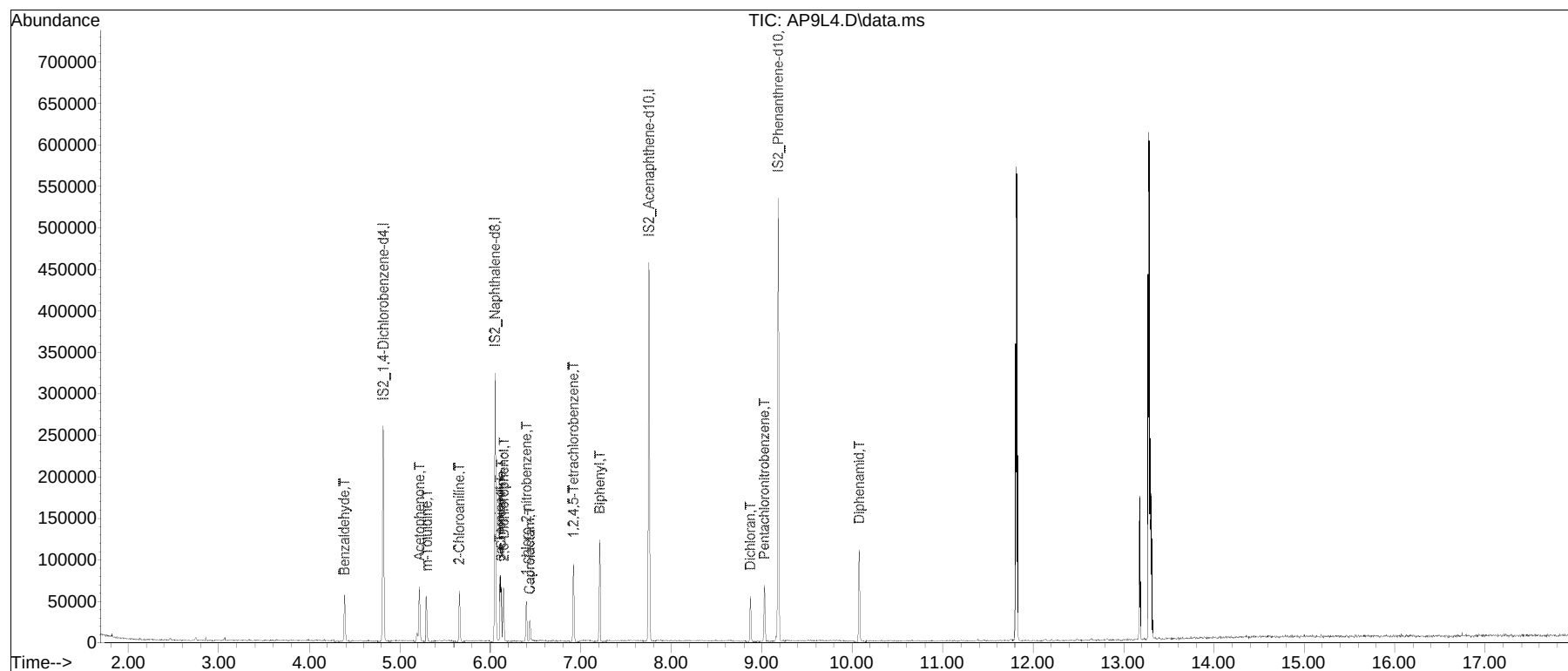
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : AP9L4.D
 Acq On : 16 Apr 2025 10:42 pm
 Operator : Dakota:HNY
 Sample : IL7,32,,AP9L1 Lot# 11546
 Misc : WG2055280
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 17 15:25:08 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

Sub List : ~~AP9L4.D~~ I:\8270\Dakota\250416RVTICAL\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\250416RVTICOM	Method	: FS250416RVT_Dakota.m
Data File	: AP9L4.D	Operator	: Dakota:HNY
Date Inj'd	: 4/16/2025 10:42 pm	Instrument	: Dakota
Sample	: IL7,32,,AP9L1 Lot# 11546	Quant Date	: 4/17/2025 3:26 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : AP9L3.D
 Acq On : 16 Apr 2025 11:05 pm
 Operator : Dakota:HNY
 Sample : IL8,32,,AP9L0.5 Lot# 11547
 Misc : WG2055280
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 17 15:24:57 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.817	152	57427	4.000	ug/ml	0.00
Standard Area 3 = 36805			Recovery =	156.03%		
57) IS2_Naphthalene-d8	6.051	136	192497	4.000	ug/ml	# 0.00
Standard Area 3 = 123208			Recovery =	156.24%		
85) IS2_Acenaphthene-d10	7.754	164	130943	4.000	ug/ml	0.00
Standard Area 3 = 84975			Recovery =	154.10%		
100) IS2_Phenanthrene-d10	9.184	188	282838	4.000	ug/ml	0.00
Standard Area 3 = 185606			Recovery =	152.39%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	4.388	105	4342	0.360	ug/ml	88
29) Acetophenone	5.215	105	7655	0.360	ug/ml#	89
30) m-Toluidine	5.298	106	5293	0.247	ug/ml	93
31) 2-Chloroaniline	5.656	127	6861	0.365	ug/ml	99
58) a-Terpineol	6.103	59	4964	0.355	ug/ml	90
59) 3-Chloroaniline	6.119	65	2385	0.334	ug/ml	87
60) 2,6-Dichlorophenol	6.144	162	5627	0.355	ug/ml#	85
61) 1-chloro-2-nitrobenzene	6.402	111	2613	0.390	ug/ml#	1
62) Caprolactam	6.442	55	2150	0.264	ug/ml#	79
63) 1,2,4,5-Tetrachloroben...	6.915	216	8201	0.384	ug/ml#	94
64) Biphenyl	7.210	154	18590	0.407	ug/ml	97
86) Dichloran	8.879	206	1692	0.252	ug/ml#	64
87) Pentachloronitrobenzene	9.028	237	2120	0.351	ug/ml#	74
101) Diphenamid	10.082	167	12296	0.373	ug/ml#	73

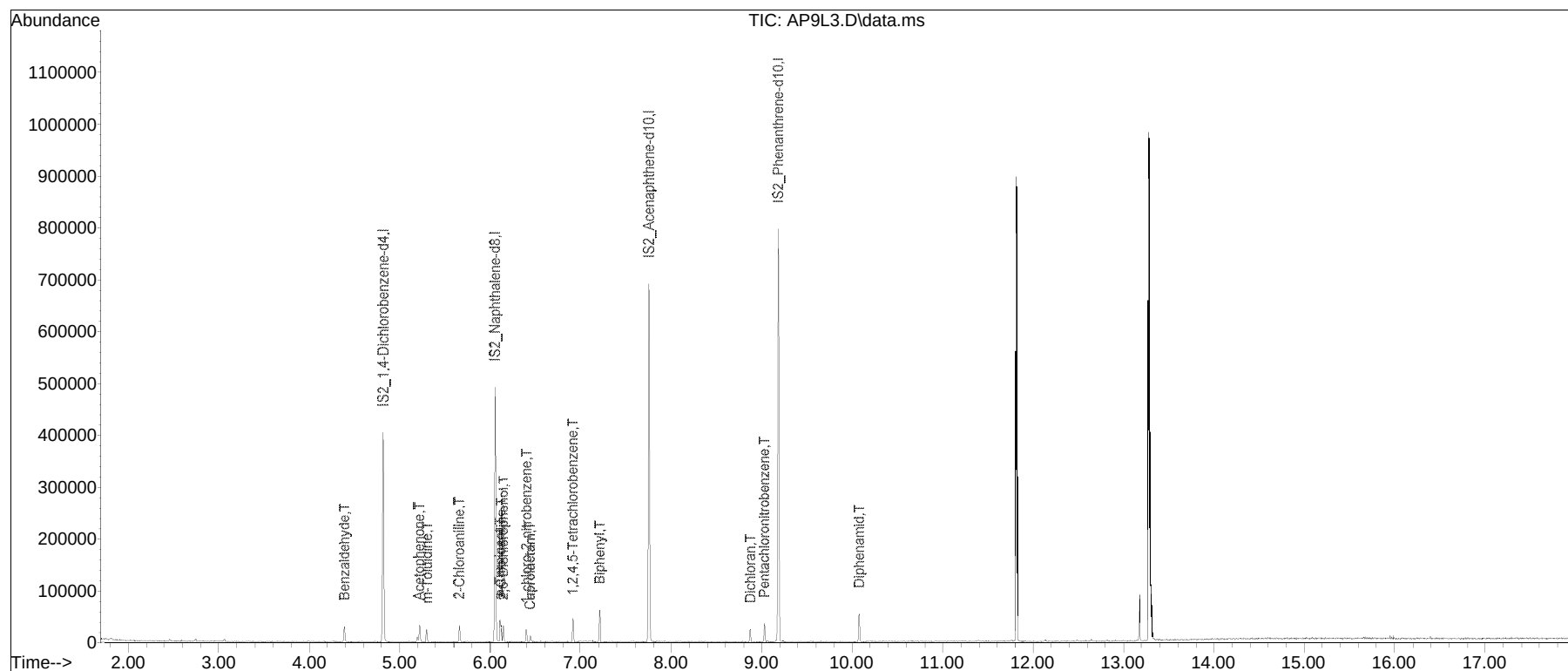
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : AP9L3.D
 Acq On : 16 Apr 2025 11:05 pm
 Operator : Dakota:HNY
 Sample : IL8,32,,AP9L0.5 Lot# 11547
 Misc : WG2055280
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 17 15:24:57 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

Sub List : ~~AP9L3.D~~ I:\8270\Dakota\250416RVTICAL\AP9L6.D•



Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQ\data
Data File : AP9L3.D
Date Inj'd : 4/16/2025 11:05 pm
Sample : IL8,32,,AP9L0.5 Lot# 11547
Method : FS250416RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 4/17/2025 3:25 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : AP9L2.D
 Acq On : 16 Apr 2025 11:28 pm
 Operator : Dakota:HNY
 Sample : IL9,32,,AP9L0.2 Lot# 11548
 Misc : WG2055280
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 17 15:24:47 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.817	152	45682	4.000	ug/ml	0.00
Standard Area 3 = 36805			Recovery =	124.12%		
57) IS2_Naphthalene-d8	6.051	136	152597	4.000	ug/ml	# 0.00
Standard Area 3 = 123208			Recovery =	123.85%		
85) IS2_Acenaphthene-d10	7.754	164	107483	4.000	ug/ml	0.00
Standard Area 3 = 84975			Recovery =	126.49%		
100) IS2_Phenanthrene-d10	9.184	188	230076	4.000	ug/ml	0.00
Standard Area 3 = 185606			Recovery =	123.96%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	4.391	105	2101	0.219	ug/ml	91
29) Acetophenone	5.221	105	3377	0.200	ug/ml#	77
30) m-Toluidine	5.298	106	1141	0.067	ug/ml#	93
31) 2-Chloroaniline	5.656	127	2779	0.186	ug/ml	91
58) a-Terpineol	6.103	59	1985	0.179	ug/ml#	78
59) 3-Chloroaniline	6.119	65	1367	0.241	ug/ml#	57
60) 2,6-Dichlorophenol	6.144	162	2321	0.185	ug/ml#	84
61) 1-chloro-2-nitrobenzene	6.402	111	1125	0.212	ug/ml#	1
62) Caprolactam	6.445	55	879M2	0.136	ug/ml	
63) 1,2,4,5-Tetrachloroben...	6.918	216	3237	0.191	ug/ml#	97
64) Biphenyl	7.210	154	6998	0.193	ug/ml	95
86) Dichloran	8.882	206	837	0.152	ug/ml#	39
87) Pentachloronitrobenzene	9.031	237	785	0.158	ug/ml#	45
101) Diphenamid	10.079	167	4667	0.174	ug/ml	84

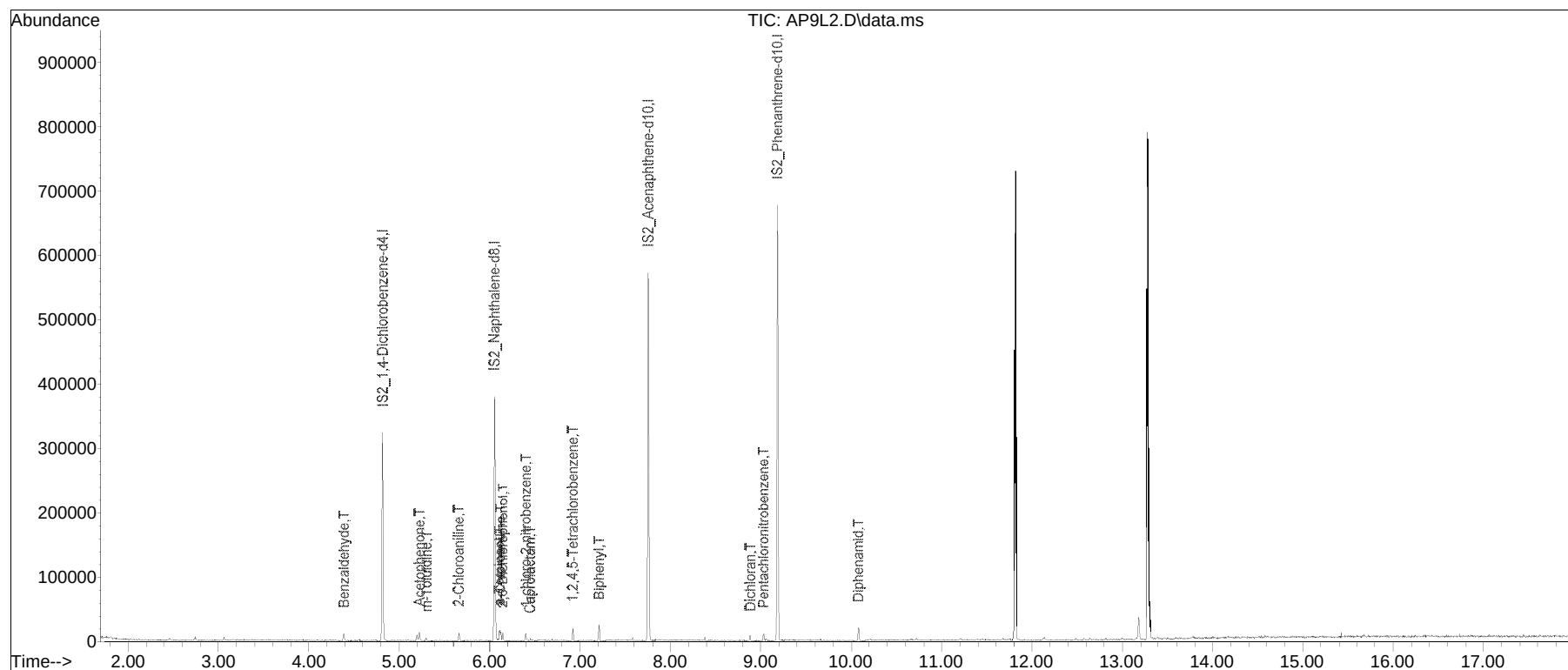
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : AP9L2.D
 Acq On : 16 Apr 2025 11:28 pm
 Operator : Dakota:HNY
 Sample : IL9,32,,AP9L0.2 Lot# 11548
 Misc : WG2055280
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 17 15:24:47 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

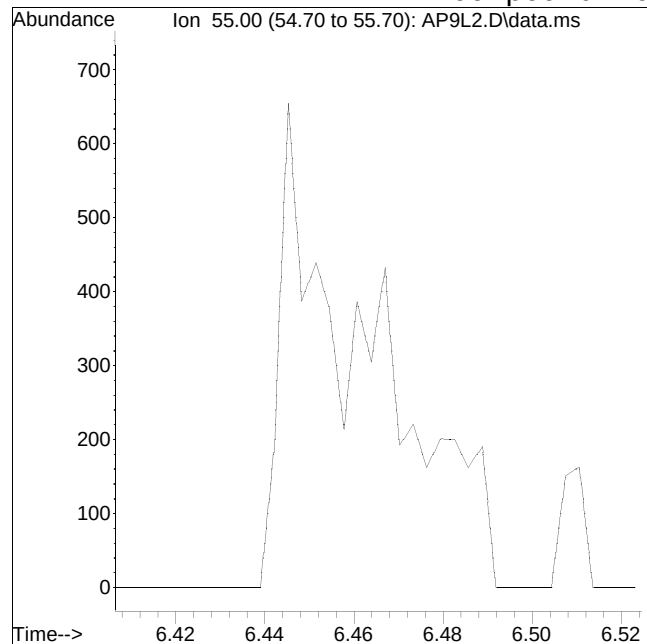
Sub List : ~~AP9L2.D~~ I:\8270\Dakota\250416RVTICAL\AP9L6.D•



Manual Integration Report

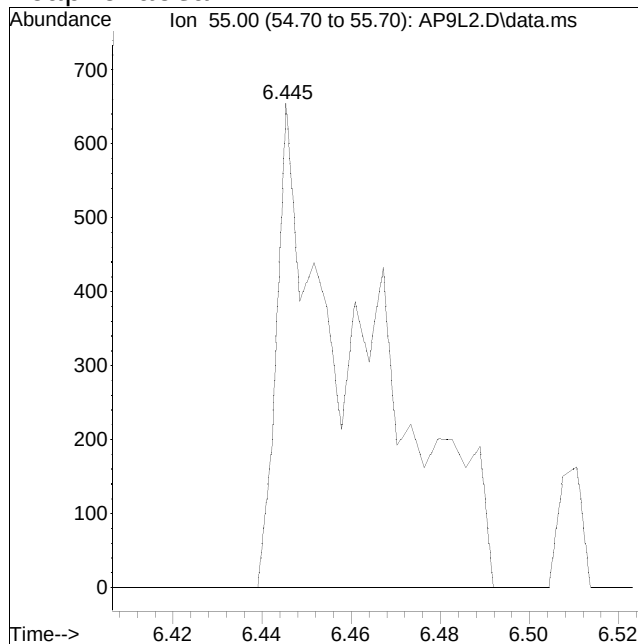
Data Path : I:\8270\Dakota\250416RVTICOM
Data File : AP9L2.D
Date Inj'd : 4/16/2025 11:28 pm
Sample : IL9,32,,AP9L0.2 Lot# 11548
Method : FS250416RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 4/17/2025 3:25 pm

Compound #62: Caprolactam



Original Peak Response = 0

M2 = Peak not found by automatic integration algorithm.



Manual Peak Response = 879 M2

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : AP9L1.D
 Acq On : 16 Apr 2025 11:50 pm
 Operator : Dakota:HNY
 Sample : IL10,32,,AP9L0.1 Lot# 11549
 Misc : WG2055280
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Apr 17 15:24:37 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.817	152	48014	4.000	ug/ml	0.00
Standard Area 3 = 36805			Recovery =	130.46%		
57) IS2_Naphthalene-d8	6.051	136	162850	4.000	ug/ml	# 0.00
Standard Area 3 = 123208			Recovery =	132.17%		
85) IS2_Acenaphthene-d10	7.754	164	112856	4.000	ug/ml	0.00
Standard Area 3 = 84975			Recovery =	132.81%		
100) IS2_Phenanthrene-d10	9.184	188	249465	4.000	ug/ml	0.00
Standard Area 3 = 185606			Recovery =	134.41%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.388	105	802	0.080	ug/ml	98
29) Acetophenone	5.218	105	1635	0.092	ug/ml#	81
30) m-Toluidine	0.000		0	N.D.		
31) 2-Chloroaniline	5.656	127	1278	0.081	ug/ml#	63
58) a-Terpineol	6.107	59	1034	0.087	ug/ml#	32
59) 3-Chloroaniline	6.122	65	459M2	0.076	ug/ml	
60) 2,6-Dichlorophenol	6.147	162	1150	0.086	ug/ml#	80
61) 1-chloro-2-nitrobenzene	6.405	111	451M2	0.080	ug/ml	
62) Caprolactam	6.396		0	N.D.		
63) 1,2,4,5-Tetrachloroben...	6.921	216	1870	0.103	ug/ml#	81
64) Biphenyl	7.210	154	3665	0.095	ug/ml	96
86) Dichloran	8.876	206	253M2	0.044	ug/ml	
87) Pentachloronitrobenzene	9.028	237	325M2	0.062	ug/ml	
101) Diphenamid	10.082	167	2363	0.081	ug/ml#	74

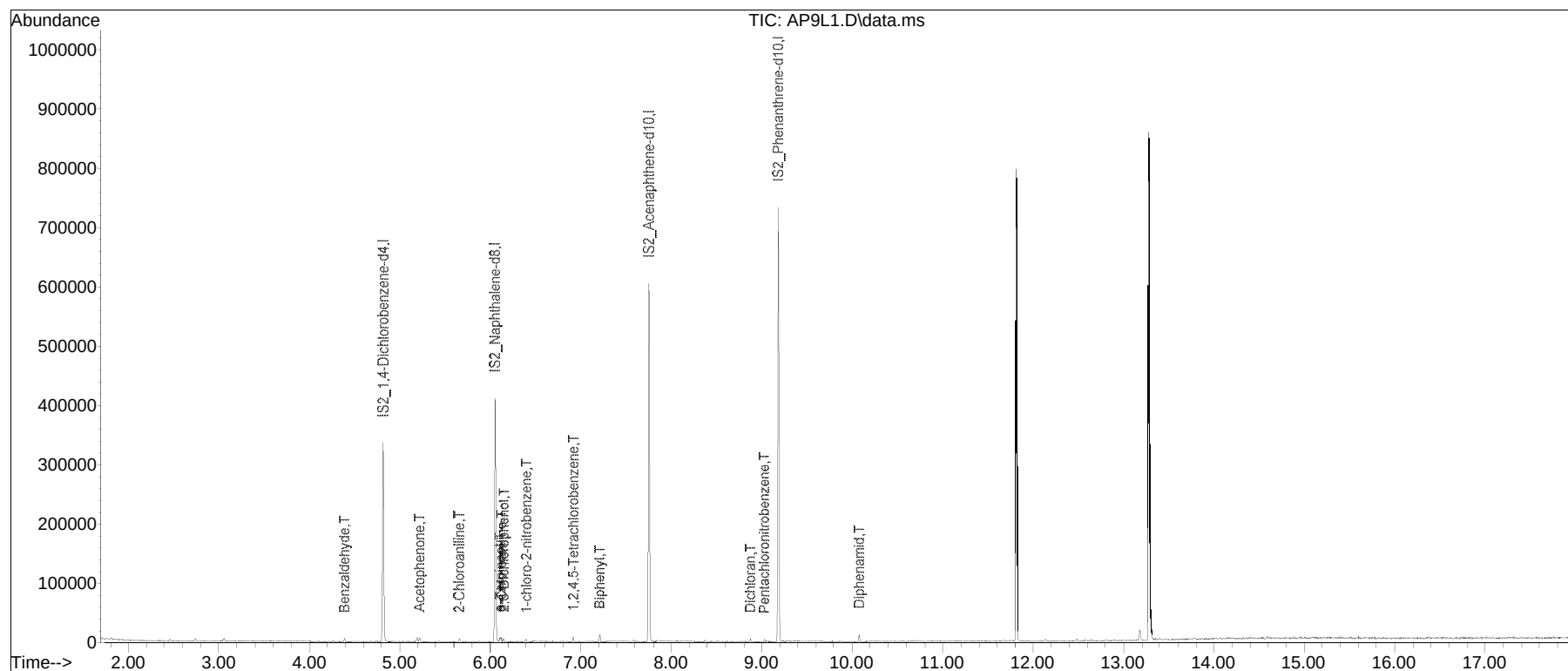
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : AP9L1.D
 Acq On : 16 Apr 2025 11:50 pm
 Operator : Dakota:HNY
 Sample : IL10,32,,AP9L0.1 Lot# 11549
 Misc : WG2055280
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Apr 17 15:24:37 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

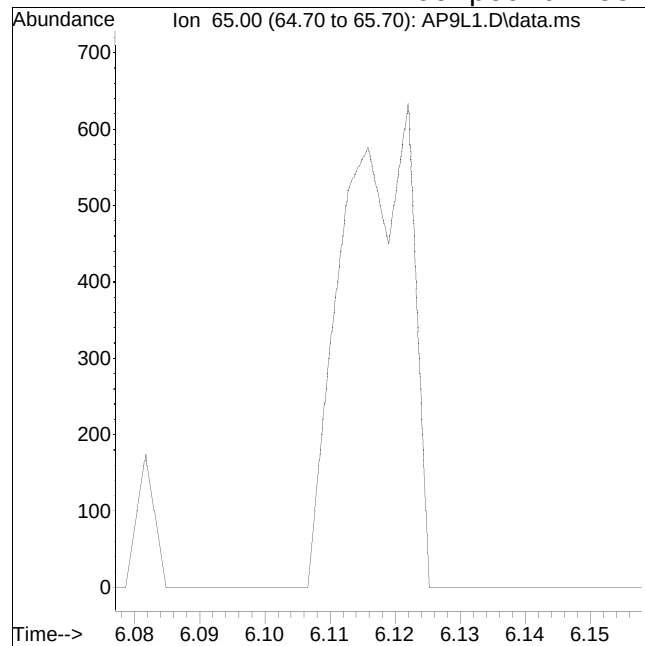
Sub List : ~~AP9L1.D~~ I:\8270\Dakota\250416RVTICAL\AP9L6.D•



Manual Integration Report

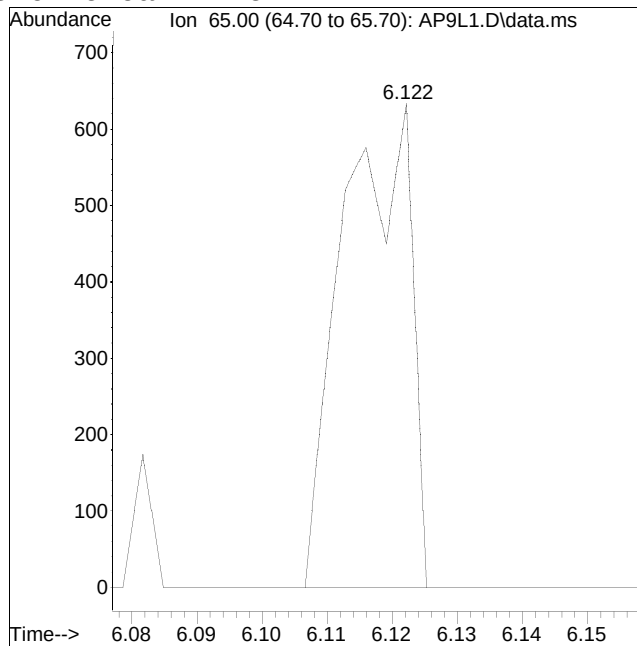
Data Path : I:\8270\Dakota\250416RVTICOM
Data File : AP9L1.D
Date Inj'd : 4/16/2025 11:50 pm
Sample : IL10,32,,AP9L0.1 Lot# 11549
Method : FS250416RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 4/17/2025 3:25 pm

Compound #59: 3-Chloroaniline



Original Peak Response = 0

M2 = Peak not found by automatic integration algorithm.

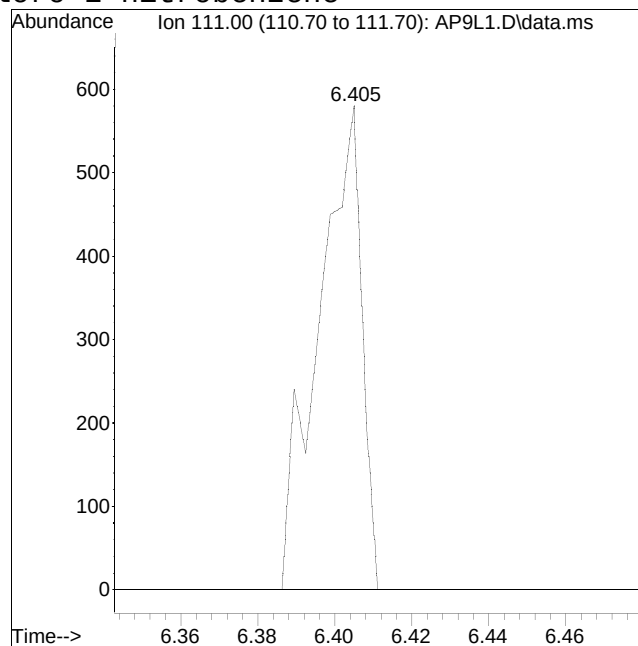
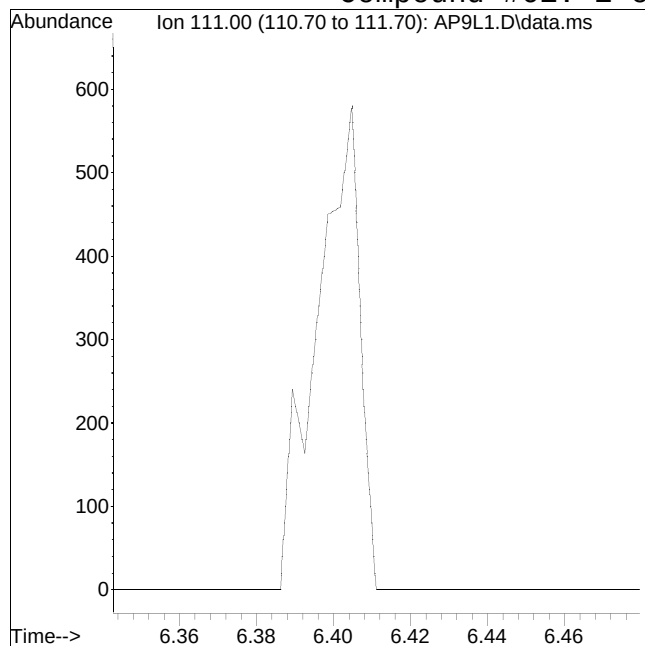


Manual Peak Response = 459 M2

Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQ1
Data File : AP9L1.D
Date Inj'd : 4/16/2025 11:50 pm
Sample : IL10,32,,AP9L0.1 Lot# 11540
Method : FS250416RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 4/17/2025 3:25 pm

Compound #61: 1-chloro-2-nitrobenzene



Original Peak Response = 0

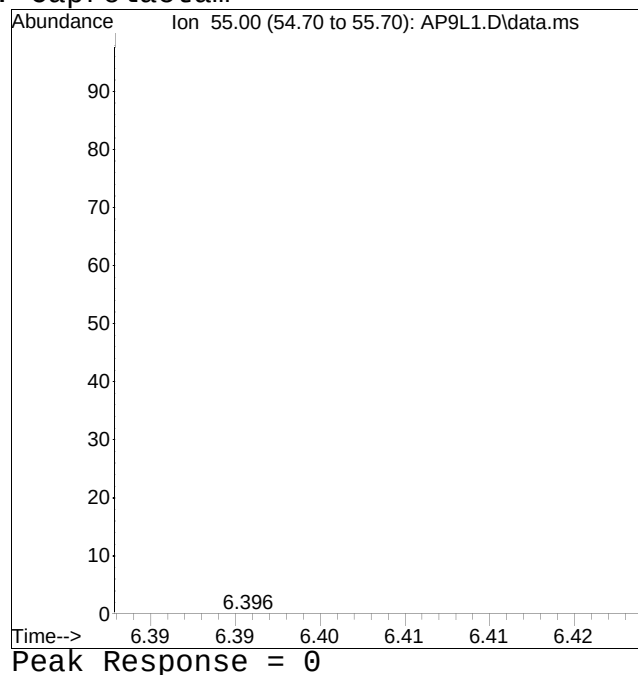
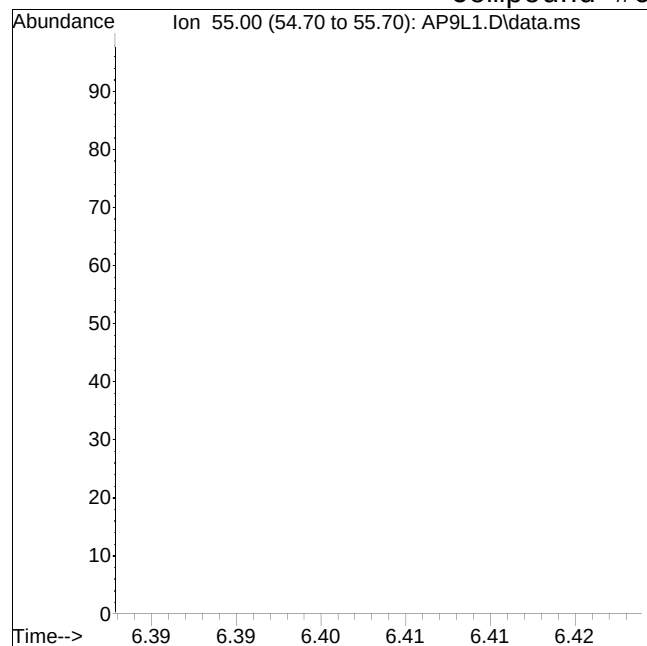
Manual Peak Response = 451 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQ\data.ms
Data File : AP9L1.D
Date Inj'd : 4/16/2025 11:50 pm
Sample : IL10,32,,AP9L0.1 Lot# 11540
Method : FS250416RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 4/17/2025 3:25 pm

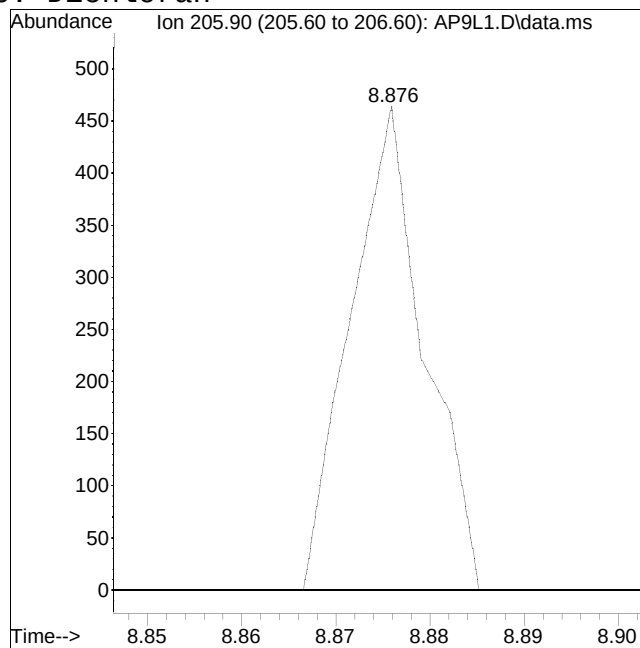
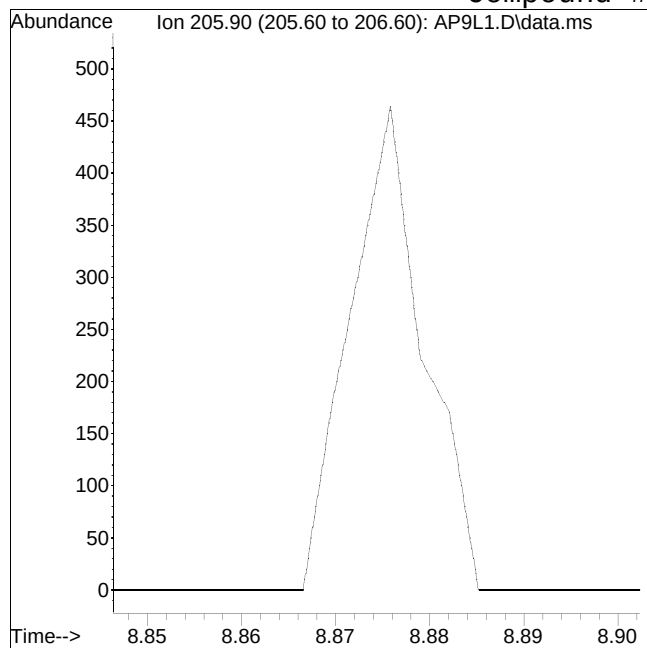
Compound #62: Caprolactam



Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQ\data.ms
Data File : AP9L1.D
Date Inj'd : 4/16/2025 11:50 pm
Sample : IL10,32,,AP9L0.1 Lot# 11540
Method : FS250416RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 4/17/2025 3:25 pm

Compound #86: Dichloran



Original Peak Response = 0

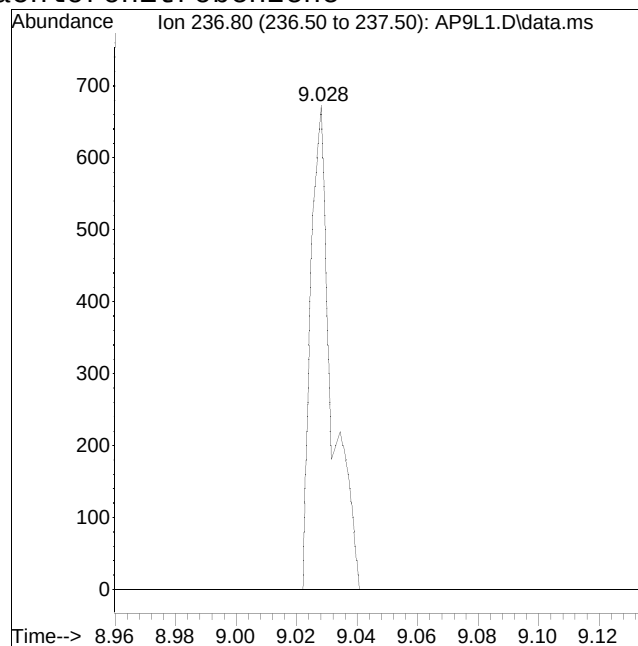
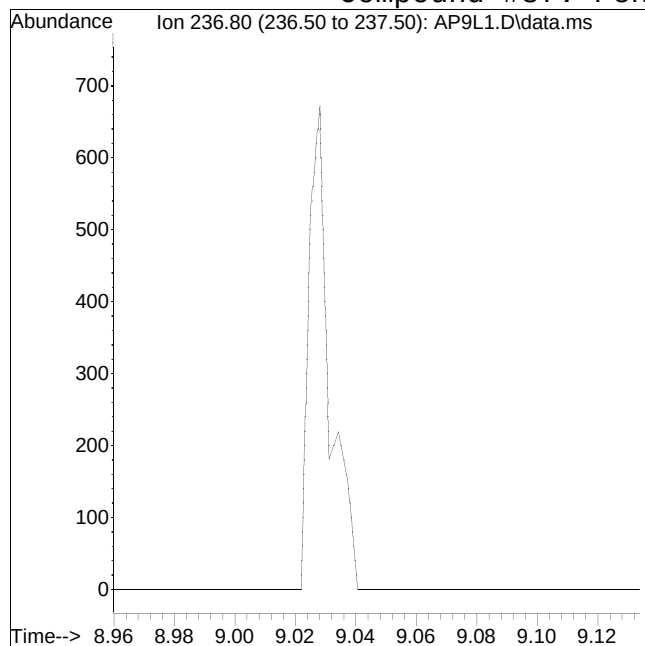
Manual Peak Response = 253 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQ\data.ms
Data File : AP9L1.D
Date Inj'd : 4/16/2025 11:50 pm
Sample : IL10,32,,AP9L0.1 Lot# 11540
Method : FS250416RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 4/17/2025 3:25 pm

Compound #87: Pentachloronitrobenzene



Original Peak Response = 0

Manual Peak Response = 325 M2

M2 = Peak not found by automatic integration algorithm.

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNICV.D
 Acq On : 17 Apr 2025 12:13 am
 Operator : Dakota:HNY
 Sample : CQICV1,32,,ABNICV Lot# 11559
 Misc : WG2055280
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Apr 17 15:21:01 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	IS1_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	92	0.00
2 t	n-Nitrosodimethylamine	0.686	0.688	-0.3	95	0.00
3 t	Pyridine	1.201	0.916	23.7#	73	0.00
4 S	2-Fluorophenol	1.027	0.937	8.8	85	0.00
5 T	Aniline	1.681	1.594	5.2	83	0.00
6 t	2-Chlorophenol	1.137	1.079	5.1	89	0.00
7 S	Phenol-d6	1.267	1.247	1.6	89	0.00
8 T	Phenol	1.542	1.460	5.3	87	0.00
9 T	Bis(2-chloroethyl)ether	0.996	1.022	-2.6	98	0.00
10 T	1,3-Dichlorobenzene	1.509	1.460	3.2	94	0.00
11 T	1,4-Dichlorobenzene	1.555	1.459	6.2	92	0.00
12 T	1,2-Dichlorobenzene	1.445	1.391	3.7	93	0.00
13 t	Benzyl alcohol	1.005	0.959	4.6	91	0.00
14 T	Bis(2-chloroisopropyl)ether	2.140	2.113	1.3	94	0.00
15 T	2-Methylphenol	1.014	1.006	0.8	91	0.00
16 T	Hexachloroethane	0.534	0.515	3.6	89	0.00
17 T	n-Nitrosodi-n-propylamine	0.907	0.892	1.7	91	0.00
18 T	3-Methylphenol/4-Methylphen	1.086	1.080	0.6	91	0.00
19 S	Nitrobenzene-d5	1.358	1.331	2.0	90	0.00
20 T	Nitrobenzene	1.329	1.267	4.7	89	0.00
21 T	Isophorone	2.441	2.358	3.4	91	0.00
22 T	2-Nitrophenol	0.587	0.585	0.3	87	0.00
23 T	2,4-Dimethylphenol	1.169	1.166	0.3	93	0.00
24 T	Bis(2-chloroethoxy)methane	1.438	1.372	4.6	91	0.00
25 T	2,4-Dichlorophenol	1.213	1.170	3.5	90	0.00
26 T	1,2,4-Trichlorobenzene	1.517	1.457	4.0	90	0.00
37 I	IS1_Naphthalene-d8	1.000	1.000	0.0	94	0.00
38 T	Naphthalene	1.025	0.952	7.1	93	0.00
39 T	Benzoic Acid	* 5.000	4.164	16.7	79	0.00
40 T	4-Chloroaniline	0.140	0.137	2.1	96	0.00
41 T	Hexachlorobutadiene	0.253	0.238	5.9	92	0.00
42 T	p-Chloro-m-cresol	0.285	0.280	1.8	94	0.00
43 T	2-Methylnaphthalene	0.666	0.662	0.6	94	0.00
44 T	1-Methylnaphthalene	0.226	0.227	-0.4	95	0.00
45 T	Hexachlorocyclopentadiene	0.341	0.318	6.7	91	0.00
46 T	2,4,6-Trichlorophenol	0.295	0.281	4.7	90	0.00
47 T	2,4,5-Trichlorophenol	0.328	0.319	2.7	94	0.00
48 S	2-Fluorobiphenyl	1.042	0.988	5.2	96	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNICV.D
 Acq On : 17 Apr 2025 12:13 am
 Operator : Dakota:HNY
 Sample : CQICV1,32,,ABNICV Lot# 11559
 Misc : WG2055280
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Apr 17 15:21:01 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	2-Chloronaphthalene	0.839	0.805	4.1	94	0.00
50 T	2-Nitroaniline	0.214	0.206	3.7	91	0.00
51 T	1,4-Dinitrobenzene	0.110	0.108	1.8	91	0.00
52 T	1,3-Dinitrobenzene	0.135	0.126	6.7	85	0.00
53 T	Dimethyl phthalate	1.012	0.973	3.9	94	0.00
54 T	Acenaphthylene	1.327	1.294	2.5	92	0.00
55 T	2,6-Dinitrotoluene	0.202	0.211	-4.5	94	0.00
56 T	1,2-Dinitrobenzene	0.084	0.079	6.0	91	0.00
65 I	IS1_Acenaphthene-d10	1.000	1.000	0.0	95	0.00
66 T	3-Nitroaniline	0.272	0.287	-5.5	93	0.00
67 T	Acenaphthene	1.046	1.009	3.5	95	0.00
68 T	2,4-Dinitrophenol	* 5.000	4.058	18.8	80	0.00
69 T	Dibenzofuran	1.874	1.701	9.2	92	0.00
70 T	2,4-Dinitrotoluene	0.400	0.404	-1.0	93	0.00
71 T	4-Nitrophenol	0.247	0.257	-4.0	97	0.00
72 T	2,3,5,6-Tetrachlorophenol	0.404	0.406	-0.5	94	0.00
73 T	2,3,4,6-Tetrachlorophenol	0.397	0.405	-2.0	97	0.00
74 T	Diethyl phthalate	1.403	1.334	4.9	95	0.00
75 T	Fluorene	1.460	1.404	3.8	96	0.00
76 T	4-Chlorophenyl phenyl ether	0.756	0.701	7.3	98	0.00
77 T	4-Nitroaniline	0.286	0.304	-6.3	93	0.00
78 T	4,6-Dinitro-o-cresol	0.248	0.234	5.6	86	0.00
79 T	NDPA/DPA	1.275	1.208	5.3	94	0.00
80 T	Azobenzene	1.299	1.251	3.7	95	0.00
81 S	2,4,6-Tribromophenol	0.235	0.237	-0.9	93	0.00
82 T	4-Bromophenyl phenyl ether	0.478	0.445	6.9	93	0.00
83 T	Hexachlorobenzene	0.558	0.499	10.6	94	0.00
84 T	Pentachlorophenol	0.331	0.301	9.1	88	0.00
90 I	IS1_Phenanthrene-d10	1.000	1.000	0.0	95	0.00
91 T	Phenanthrene	1.150	1.078	6.3	94	0.00
92 T	Anthracene	1.127	1.111	1.4	96	0.00
93 T	Carbazole	1.060	1.016	4.2	92	0.00
94 T	Di-n-butylphthalate	1.100	1.100	0.0	96	0.00
95 T	Fluoranthene	1.355	1.335	1.5	95	0.00
96 T	Benzidine	0.817	0.902	-10.4	104	0.00
97 T	Pyrene	1.466	1.435	2.1	95	0.00
98 S	4-Terphenyl-d14	1.069	1.062	0.7	98	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNICV.D
 Acq On : 17 Apr 2025 12:13 am
 Operator : Dakota:HNY
 Sample : CQICV1,32,,ABNICV Lot# 11559
 Misc : WG2055280
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Apr 17 15:21:01 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
99 T	Butyl benzyl phthalate	0.478	0.487	-1.9	93	0.00
106 I	IS1_Chrysene-d12	1.000	1.000	0.0	98	0.00
107 T	Benzo(a)anthracene	1.313	1.239	5.6	94	0.00
108 T	3,3'-Dichlorobenzidine	0.464	0.487	-5.0	101	0.00
109 T	Chrysene	1.293	1.184	8.4	97	0.00
110 T	Bis(2-ethylhexyl)phthalate	0.661	0.677	-2.4	95	0.00
111 T	Di-n-octylphthalate	1.074	1.132	-5.4	96	0.00
112 T	Benzo(b)fluoranthene	1.332	1.280	3.9	93	0.00
113 T	Benzo(k)fluoranthene	1.355	1.248	7.9	91	0.00
114 T	Benzo(a)pyrene	1.271	1.209	4.9	93	0.00
115 I	IS1_Perylene-d12	1.000	1.000	0.0	93	0.00
116 T	Indeno(1,2,3-cd)pyrene	1.242	1.155	7.0	85	0.00
117 T	Dibenzo(a,h)anthracene	1.197	1.141	4.7	91	0.00
118 T	Benzo(ghi)perylene	1.198	1.109	7.4	90	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNICV.D
 Acq On : 17 Apr 2025 12:13 am
 Operator : Dakota:HNY
 Sample : CQICV1,32,,ABNICV Lot# 11559
 Misc : WG2055280
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Apr 17 15:21:01 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.817	152	35875	4.000	ug/ml	0.00
Standard Area 1 = 38918			Recovery =	92.18%		
37) IS1_Naphthalene-d8	6.051	136	128827	4.000	ug/ml	# 0.00
Standard Area 1 = 137542			Recovery =	93.66%		
65) IS1_Acenaphthene-d10	7.754	164	92929	4.000	ug/ml	0.00
Standard Area 1 = 98079			Recovery =	94.75%		
90) IS1_Phenanthrene-d10	9.184	188	200323	4.000	ug/ml	0.00
Standard Area 1 = 211127			Recovery =	94.88%		
106) IS1_Chrysene-d12	11.819	240	235574	4.000	ug/ml	0.00
Standard Area 1 = 240990			Recovery =	97.75%		
115) IS1_Perylene-d12	13.280	264	261920	4.000	ug/ml	0.00
Standard Area 1 = 282356			Recovery =	92.76%		
System Monitoring Compounds						
4) 2-Fluorophenol	3.549	112	42040	4.565	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	228.25%#		
7) Phenol-d6	4.487	99	55907	4.921	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	246.05%#		
19) Nitrobenzene-d5	5.354	82	59706	4.903	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	490.30%#		
48) 2-Fluorobiphenyl	7.120	172	159066	4.740	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	474.00%#		
81) 2,4,6-Tribromophenol	8.515	330	27549	5.035	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	251.75%#		
98) 4-Terphenyl-d14	10.759	244	265836	4.965	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	496.50%#		
Target Compounds						
2) n-Nitrosodimethylamine	2.181	74	30841	5.016	ug/ml#	89
3) Pyridine	2.228	79	41067M1	3.813	ug/ml	
5) Aniline	4.497	93	71500	4.743	ug/ml#	37
6) 2-Chlorophenol	4.612	128	48371	4.745	ug/ml	96
8) Phenol	4.500	94	65471	4.733	ug/ml#	41
9) Bis(2-chloroethyl)ether	4.577	93	45842	5.133	ug/ml	95
10) 1,3-Dichlorobenzene	4.761	146	65485	4.839	ug/ml	95
11) 1,4-Dichlorobenzene	4.832	146	65436	4.691	ug/ml	92
12) 1,2-Dichlorobenzene	4.981	146	62400	4.815	ug/ml	94

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNICV.D
 Acq On : 17 Apr 2025 12:13 am
 Operator : Dakota:HNY
 Sample : CQICV1,32,,ABNICV Lot# 11559
 Misc : WG2055280
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Apr 17 15:21:01 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
13) Benzyl alcohol	4.963	79	42998	4.772	ug/ml	96
14) Bis(2-chloroisopropyl)...	5.112	45	94733	4.936	ug/ml#	98
15) 2-Methylphenol	5.090	108	45115	4.962	ug/ml	100
16) Hexachloroethane	5.311	117	23075	4.818	ug/ml#	46
17) n-Nitrosodi-n-propylamine	5.233	70	40014	4.917	ug/ml#	85
18) 3-Methylphenol/4-Methy...	5.246	108	48449	4.974	ug/ml	99
20) Nitrobenzene	5.373	77	56822	4.767	ug/ml	93
21) Isophorone	5.616	82	105759	4.831	ug/ml#	91
22) 2-Nitrophenol	5.690	139	26230	4.985	ug/ml	96
23) 2,4-Dimethylphenol	5.758	107	52292	4.987	ug/ml	98
24) Bis(2-chloroethoxy)met...	5.846	93	61519	4.769	ug/ml#	96
25) 2,4-Dichlorophenol	5.926	162	52452	4.823	ug/ml#	91
26) 1,2,4-Trichlorobenzene	6.004	180	65323	4.802	ug/ml	97
38) Naphthalene	6.072	128	153290	4.644	ug/ml	99
39) Benzoic Acid	5.821	105	23239	4.164	ug/ml	92
40) 4-Chloroaniline	6.138	65	22098	4.898	ug/ml	98
41) Hexachlorobutadiene	6.222	225	38343	4.713	ug/ml	98
42) p-Chloro-m-cresol	6.629	107	45155	4.925	ug/ml	92
43) 2-Methylnaphthalene	6.750	142	106563	4.968	ug/ml	99
44) 1-Methylnaphthalene	6.843	115	36502	5.007	ug/ml	88
45) Hexachlorocyclopentadiene	6.918	237	51289	4.669	ug/ml	99
46) 2,4,6-Trichlorophenol	7.033	196	45273	4.762	ug/ml	99
47) 2,4,5-Trichlorophenol	7.061	196	51407	4.873	ug/ml	99
49) 2-Chloronaphthalene	7.216	162	129562	4.795	ug/ml#	90
50) 2-Nitroaniline	7.322	138	33227	4.818	ug/ml	97
51) 1,4-Dinitrobenzene	7.452	168	17382	4.889	ug/ml	91
52) 1,3-Dinitrobenzene	7.530	168	20279	4.674	ug/ml#	1
53) Dimethyl phthalate	7.521	163	156648	4.808	ug/ml#	98
54) Acenaphthylene	7.614	152	208328	4.873	ug/ml	98
55) 2,6-Dinitrotoluene	7.567	165	34054	5.223	ug/ml#	78
56) 1,2-Dinitrobenzene	7.608	168	12715	4.698	ug/ml#	1
66) 3-Nitroaniline	7.720	138	33346	5.272	ug/ml#	95
67) Acenaphthene	7.785	154	117212	4.821	ug/ml	91
68) 2,4-Dinitrophenol	7.822	184	17513	4.058	ug/ml	88
69) Dibenzofuran	7.953	168	197640	4.540	ug/ml	90
70) 2,4-Dinitrotoluene	7.953	165	46984	5.051	ug/ml	91
71) 4-Nitrophenol	7.900	65	29826	5.197	ug/ml	96
72) 2,3,5,6-Tetrachlorophenol	8.040	232	47213	5.024	ug/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ABNICV.D
 Acq On : 17 Apr 2025 12:13 am
 Operator : Dakota:HNY
 Sample : CQICV1,32,,ABNICV Lot# 11559
 Misc : WG2055280
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Apr 17 15:21:01 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
73)	2,3,4,6-Tetrachlorophenol	8.083	232	47057	5.098	ug/ml	100
74)	Diethyl phthalate	8.211	149	154977	4.755	ug/ml	99
75)	Fluorene	8.285	166	163111	4.809	ug/ml	95
76)	4-Chlorophenyl phenyl ...	8.301	204	81400	4.633	ug/ml#	84
77)	4-Nitroaniline	8.307	138	35337	5.319	ug/ml	93
78)	4,6-Dinitro-o-cresol	8.341	198	27238	4.734	ug/ml#	63
79)	NDPA/DPA	8.413	169	140272	4.734	ug/ml	93
80)	Azobenzene	8.450	77	145361	4.818	ug/ml	97
82)	4-Bromophenyl phenyl e...	8.770	248	51646	4.652	ug/ml#	79
83)	Hexachlorobenzene	8.820	284	57924	4.471	ug/ml#	83
84)	Pentachlorophenol	9.013	266	34941	4.549	ug/ml	98
91)	Phenanthrene	9.205	178	269921	4.686	ug/ml	100
92)	Anthracene	9.255	178	278126	4.930	ug/ml	99
93)	Carbazole	9.420	167	254432	4.792	ug/ml	99
94)	Di-n-butylphthalate	9.802	149	275425	4.998	ug/ml#	99
95)	Fluoranthene	10.355	202	334285	4.926	ug/ml#	90
96)	Benzidine	10.505	184	225830	5.517	ug/ml#	93
97)	Pyrene	10.573	202	359431	4.897	ug/ml	100
99)	Butyl benzyl phthalate	11.285	149	121849	5.095	ug/ml	89
107)	Benzo(a)anthracene	11.810	228	364778	4.716	ug/ml	100
108)	3,3'-Dichlorobenzidine	11.804	252	143436	5.246	ug/ml#	96
109)	Chrysene	11.844	228	348654	4.579	ug/ml	98
110)	Bis(2-ethylhexyl)phtha...	11.919	149	199454	5.122	ug/ml#	94
111)	Di-n-octylphthalate	12.596	149	333442	5.271	ug/ml#	78
112)	Benzo(b)fluoranthene	12.913	252	376863	4.803	ug/ml#	92
113)	Benzo(k)fluoranthene	12.938	252	367509	4.606	ug/ml#	92
114)	Benzo(a)pyrene	13.224	252	356112	4.758	ug/ml#	91
116)	Indeno(1,2,3-cd)pyrene	14.268	276	378011M6	4.646	ug/mL	
117)	Dibenzo(a,h)anthracene	14.293	278	373528	4.765	ug/ml#	88
118)	Benzo(ghi)perylene	14.530	276	362964	4.629	ug/ml#	84

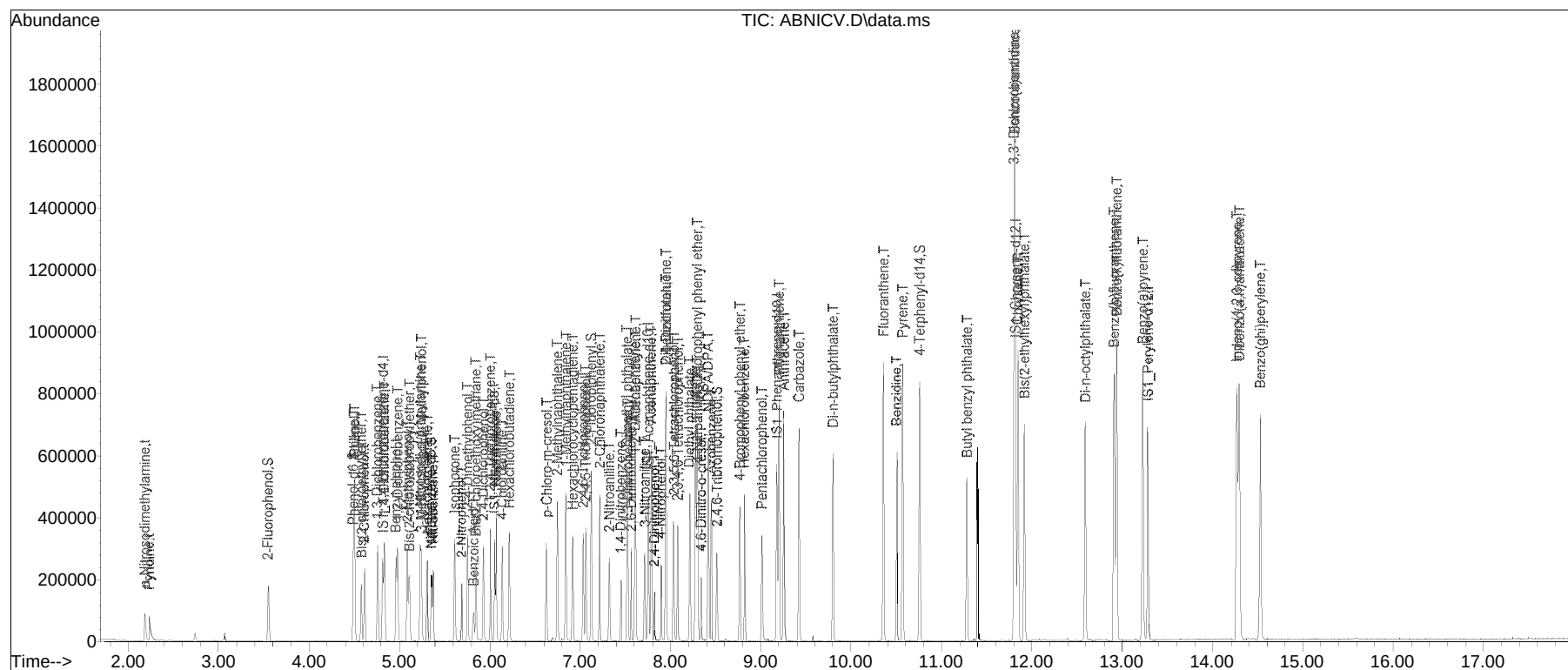
(#) = qualifier out of range (m) = manual integration (+) = signals summed

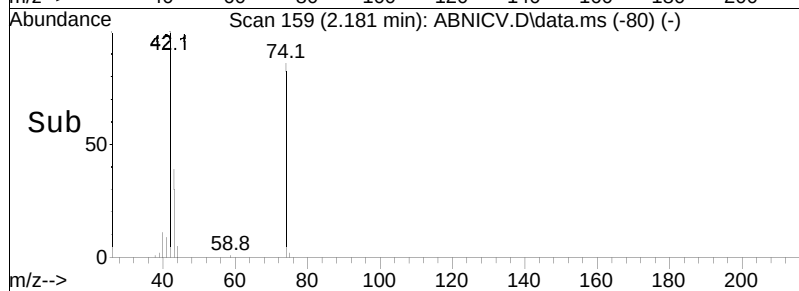
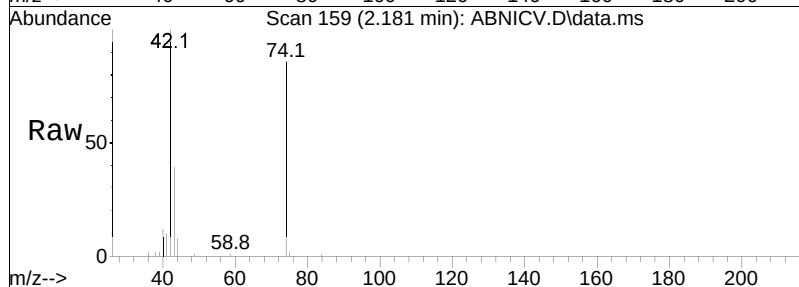
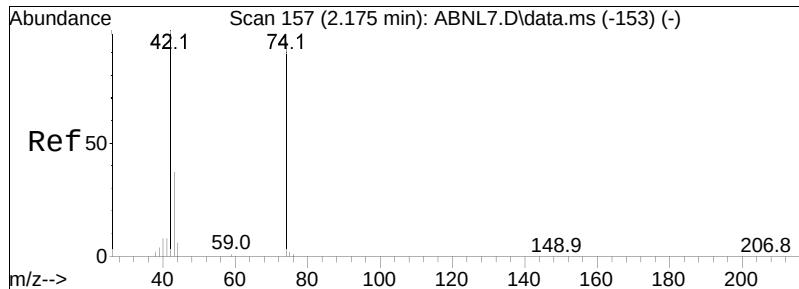
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
Data File : ABNICV.D
Acq On : 17 Apr 2025 12:13 am
Operator : Dakota:HNY
Sample : CQICV1,32,,ABNICV Lot# 11559
Misc : WG2055280
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Apr 17 15:21:01 2025
Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Apr 17 14:28:59 2025
Response via : Initial Calibration

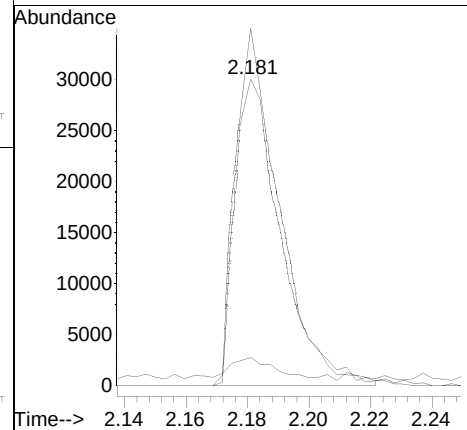
Sub List : ABNITa\8270ABNakoaa\850416RVTICAL\AP9L6.D•

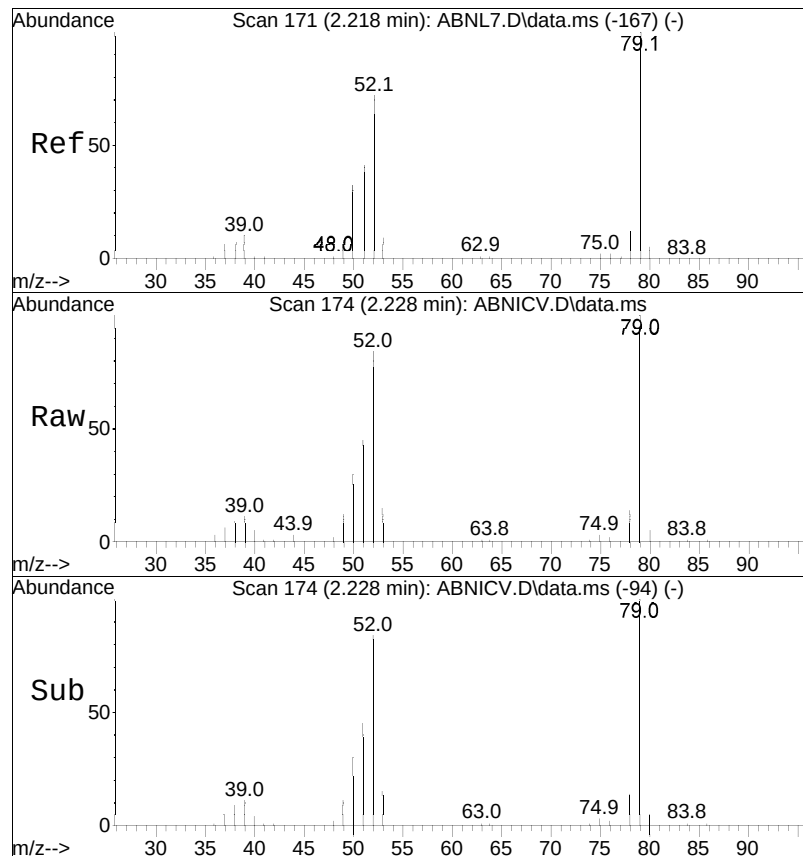




#2
 n-Nitrosodimethylamine
 Concen: 5.02 ug/ml
 RT: 2.181 min Scan# 159
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

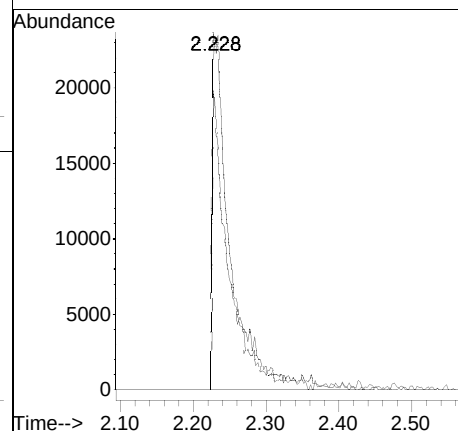
Tgt Ion	Ratio	Lower	Upper
74	100		
42	112.5	100.0	150.0
44	5.4	6.7	10.1#

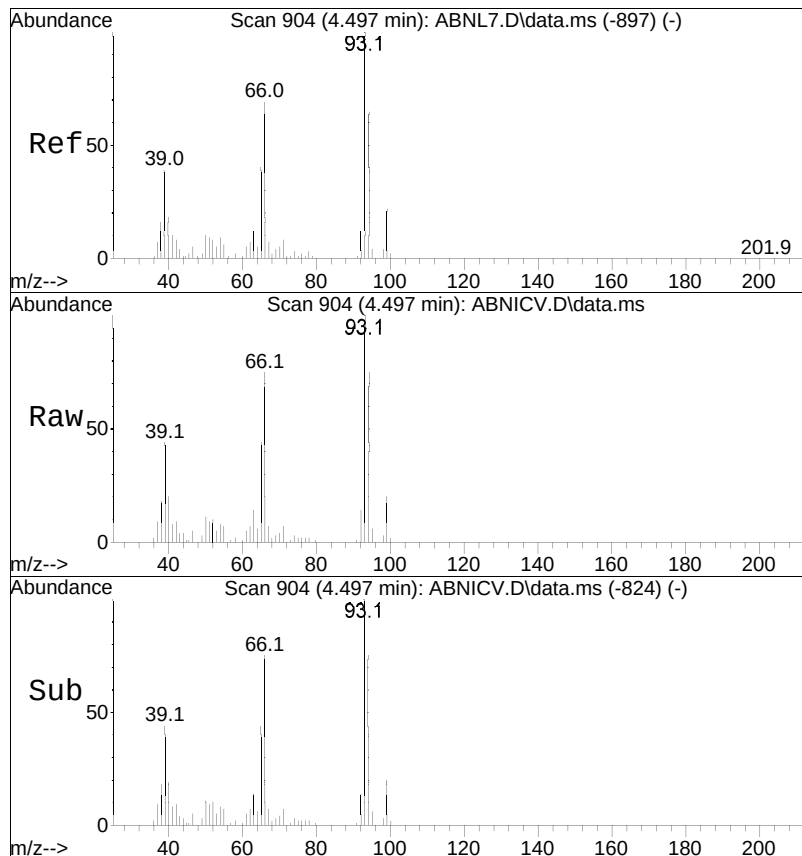




#3
 Pyridine
 Concen: 3.81 ug/ml M1
 RT: 2.228 min Scan# 174
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

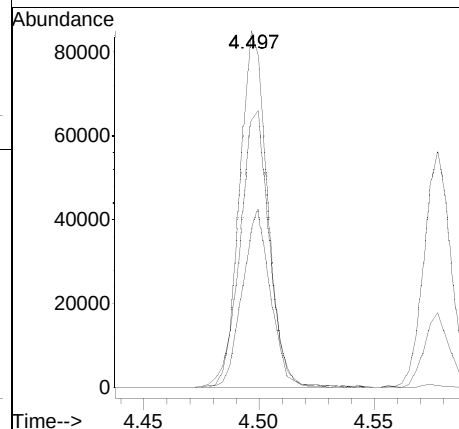
Tgt Ion	Ratio	Lower	Upper
79	100		
52	72.3	93.1	139.7#

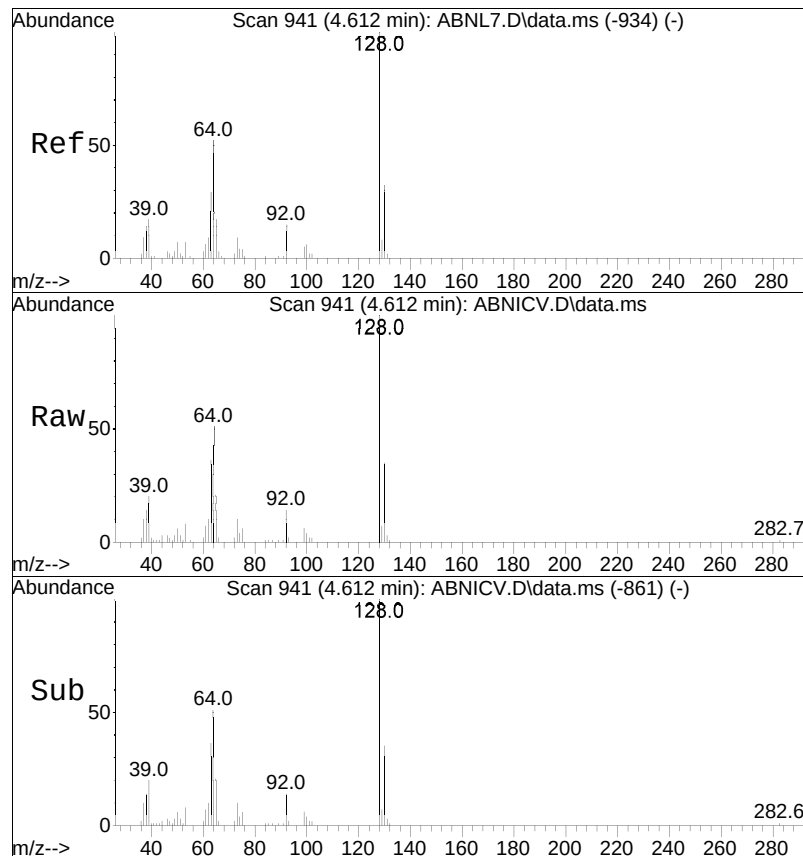




#5
 Aniline
 Concen: 4.74 ug/ml
 RT: 4.497 min Scan# 904
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

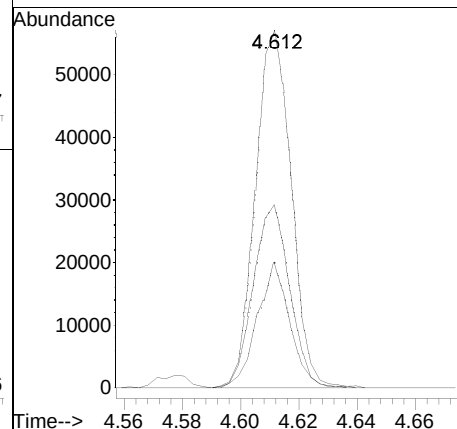
Tgt Ion	Ratio	Lower	Upper
93	100		
66	81.5	32.6	49.0#
65	50.4	17.6	26.4#

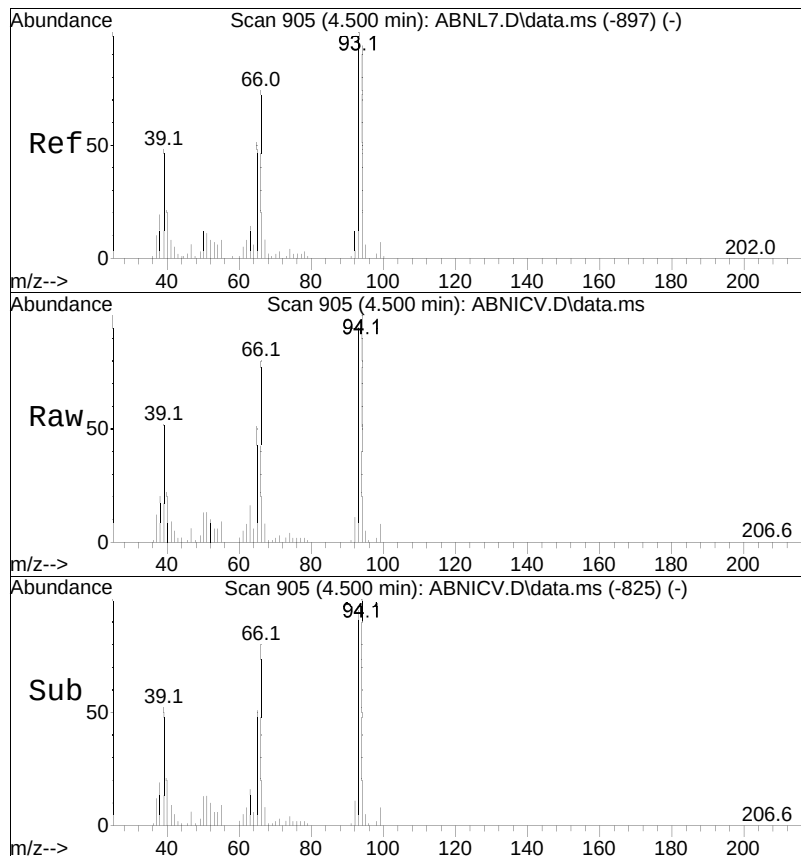




#6
 2-Chlorophenol
 Concen: 4.74 ug/ml
 RT: 4.612 min Scan# 941
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

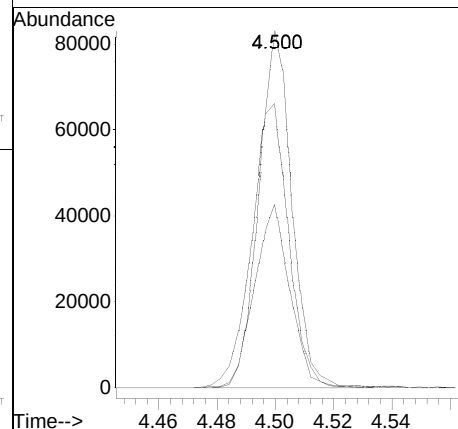
Tgt Ion	Ratio	Resp	Lower	Upper
128	100	48371		
64	52.1		45.1	67.7
130	32.1		26.2	39.4

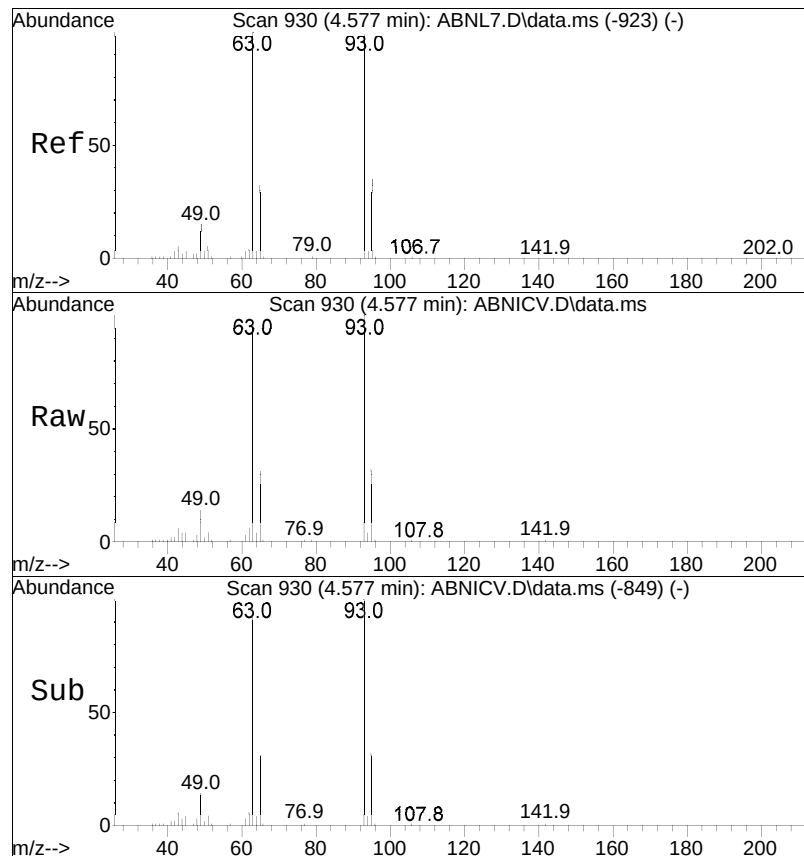




#8
 Phenol
 Concen: 4.73 ug/ml
 RT: 4.500 min Scan# 905
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

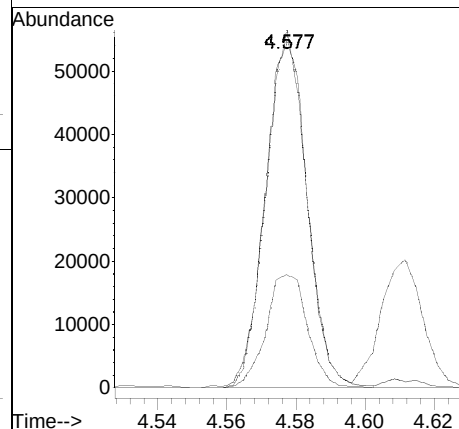
Tgt	Ion: 94	Resp:	65471
Ion	Ratio	Lower	Upper
94	100		
65	55.0	26.0	39.0#
66	89.0	33.8	50.8#

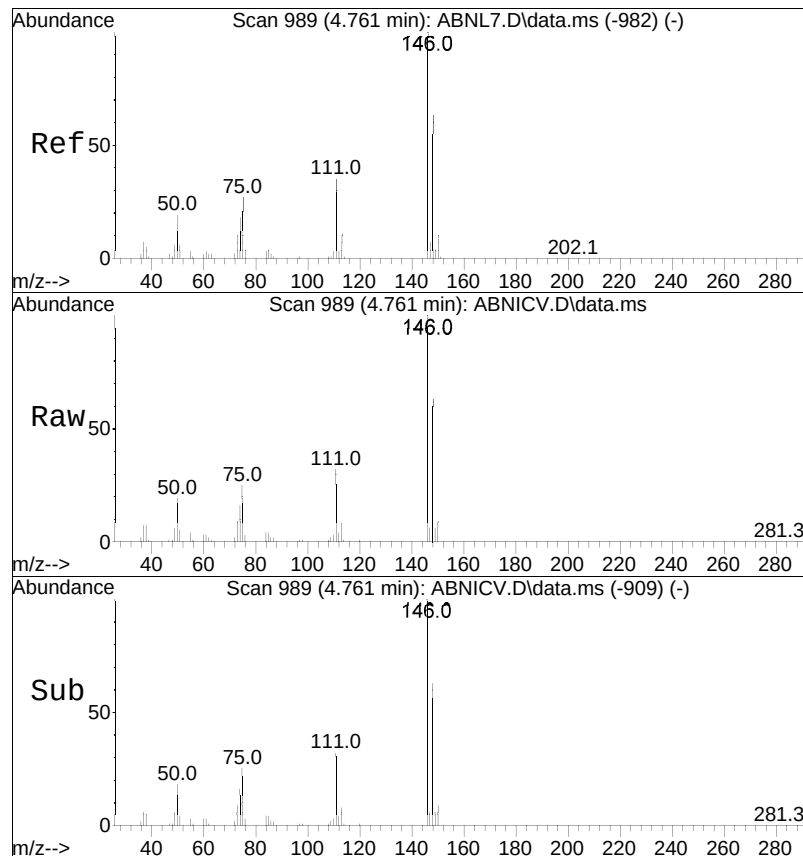




#9
 Bis(2-chloroethyl)ether
 Concen: 5.13 ug/ml
 RT: 4.577 min Scan# 930
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

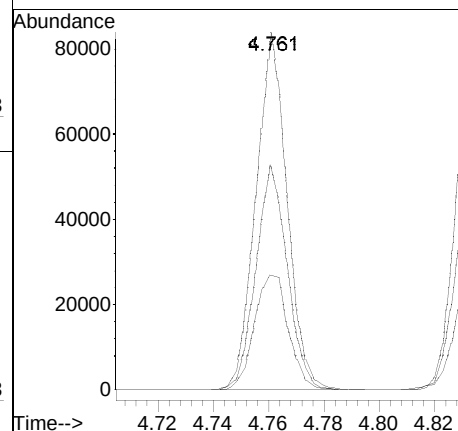
Tgt	Ion	Ratio	Lower	Upper
93	100			
63	99.6	74.6	111.8	
95	32.5	25.9	38.9	

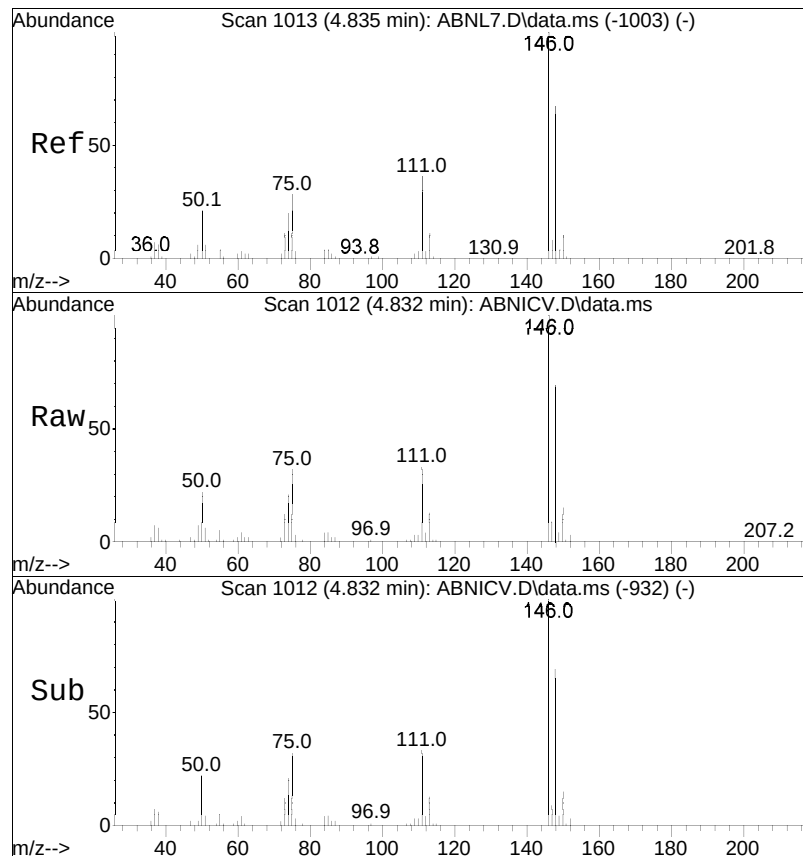




#10
 1,3-Dichlorobenzene
 Concen: 4.84 ug/ml
 RT: 4.761 min Scan# 989
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

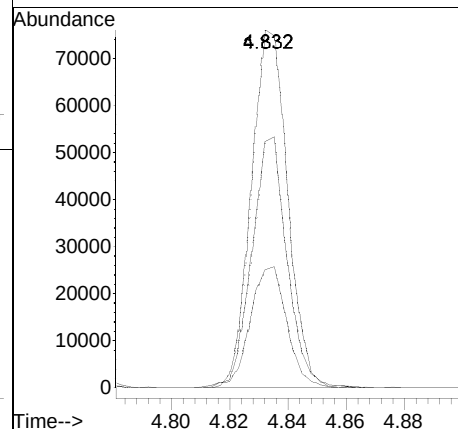
Tgt	Ion:146	Resp:	65485
Ion	Ratio	Lower	Upper
146	100		
111	35.3	34.3	51.5
148	63.4	50.8	76.2

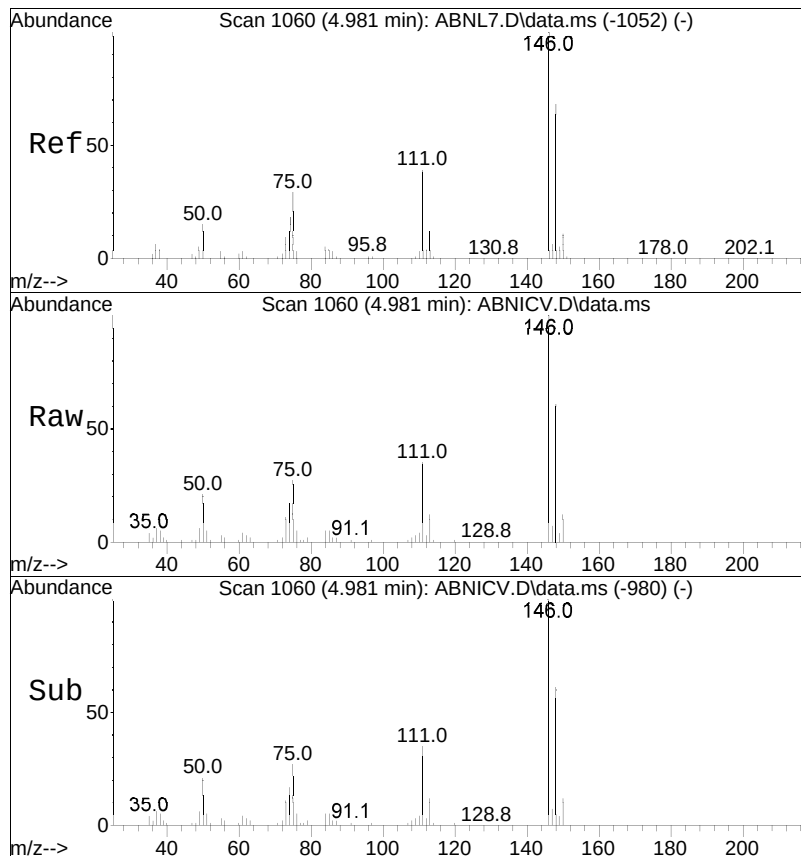




#11
 1,4-Dichlorobenzene
 Concen: 4.69 ug/ml
 RT: 4.832 min Scan# 1012
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

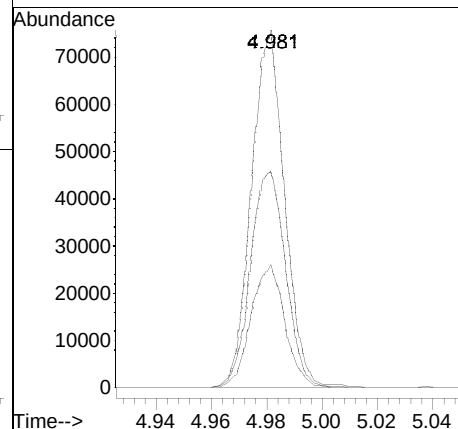
Tgt Ion	Ratio	Resp	Lower	Upper
146	100	65436		
148	67.7		50.7	76.1
111	34.6		33.4	50.0

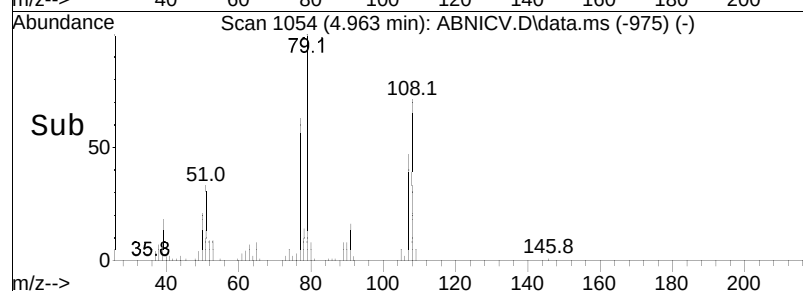
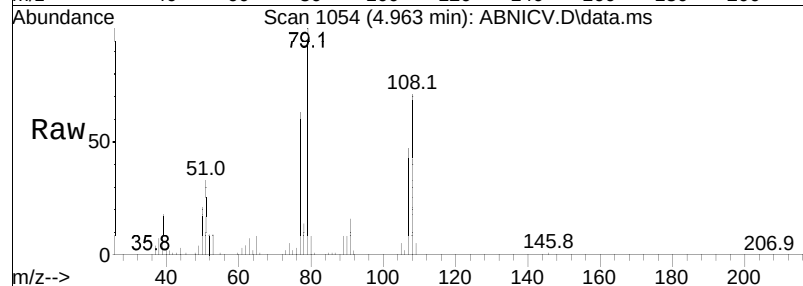
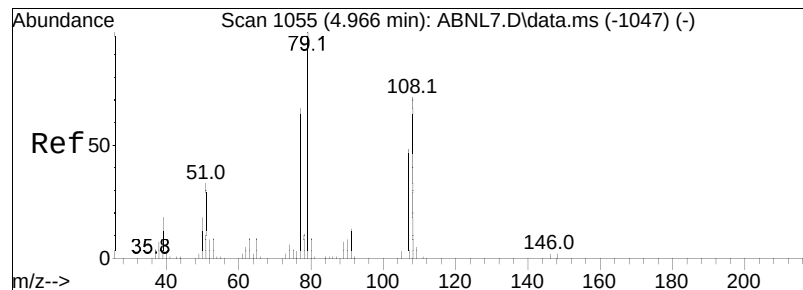




#12
 1,2-Dichlorobenzene
 Concen: 4.81 ug/ml
 RT: 4.981 min Scan# 1060
 Delta R.T. -0.001 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

Tgt	Ion:146	Resp:	62400
Ion	Ratio	Lower	Upper
146	100		
111	35.3	34.6	52.0
148	64.2	50.2	75.4





#13

Benzyl alcohol

Concen: 4.77 ug/ml

RT: 4.963 min Scan# 1054

Delta R.T. -0.003 min

Lab File: ABNICV.D

Acq: 17 Apr 2025 12:13 am

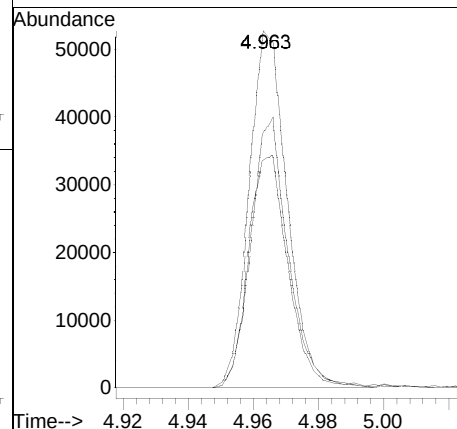
Tgt Ion: 79 Resp: 42998

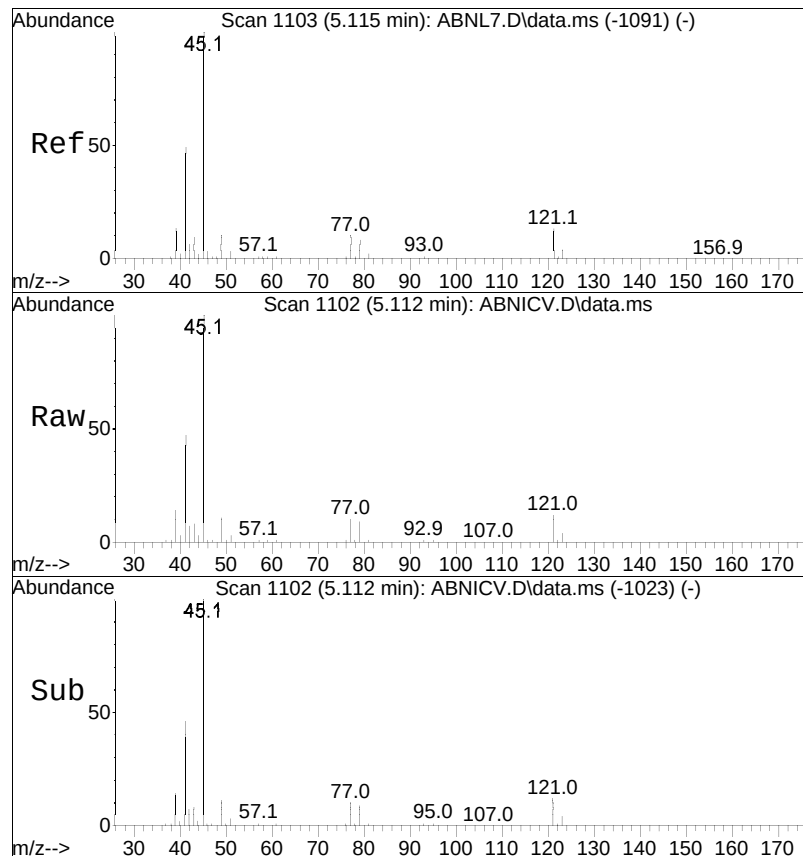
Ion Ratio Lower Upper

79 100

77 67.5 54.9 82.3

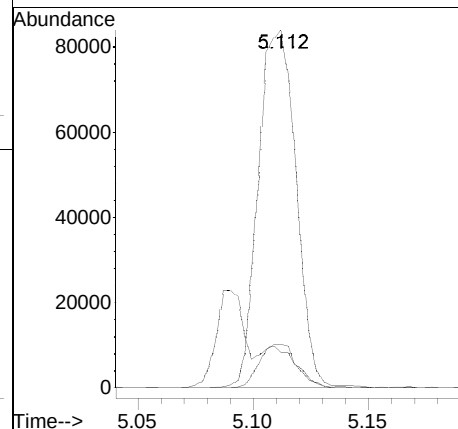
108 73.2 63.1 94.7

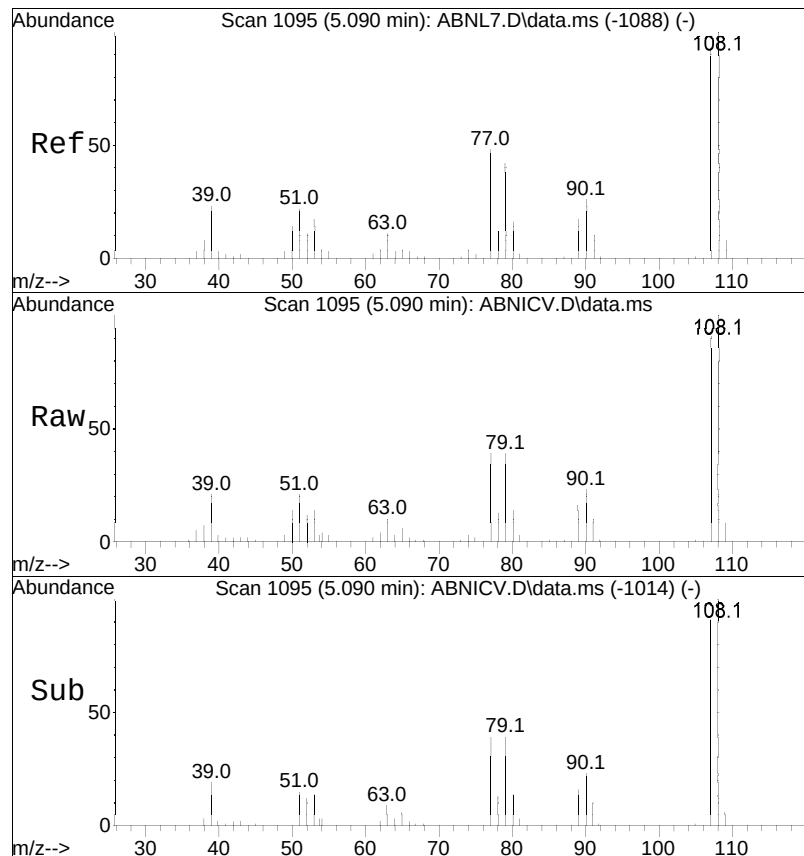




#14
 Bis(2-chloroisopropyl)ether
 Concen: 4.94 ug/ml
 RT: 5.112 min Scan# 1102
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

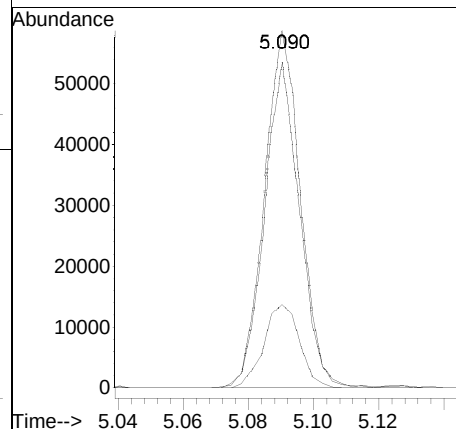
Tgt Ion:	45	Resp:	94733
Ion Ratio	Lower	Upper	
45	100		
121	12.3	9.8	14.6
77	9.6	6.1	9.1#

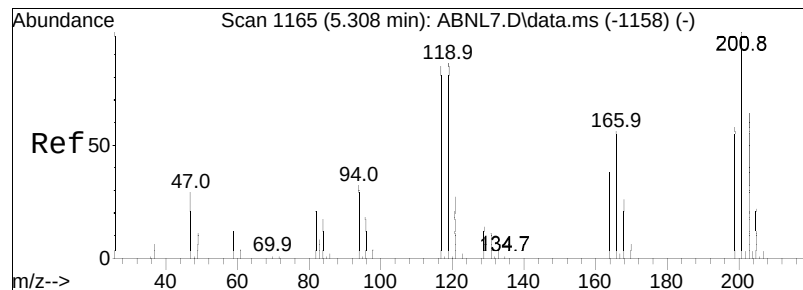




#15
 2-Methylphenol
 Concen: 4.96 ug/ml
 RT: 5.090 min Scan# 1095
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

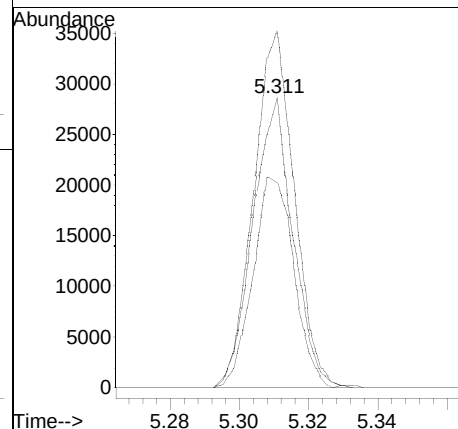
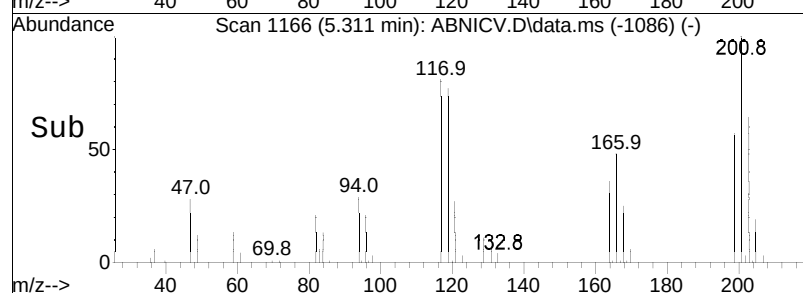
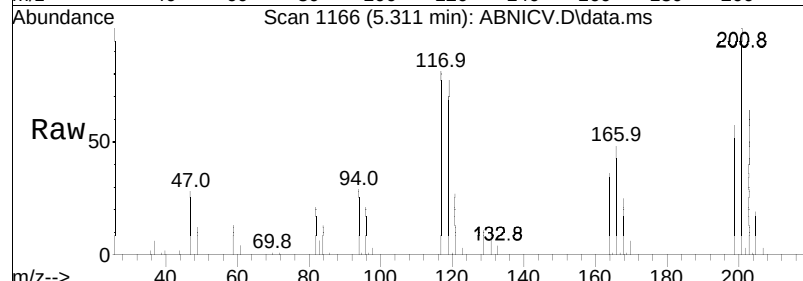
Tgt Ion:	108	Resp:	45115
Ion Ratio	Lower	Upper	
108	100		
107	88.7	70.7	106.1
90	23.2	18.7	28.1

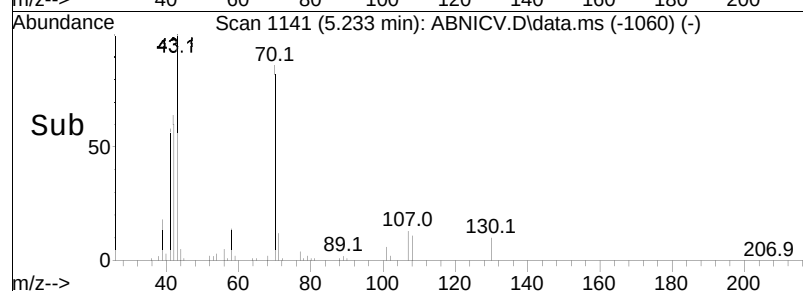
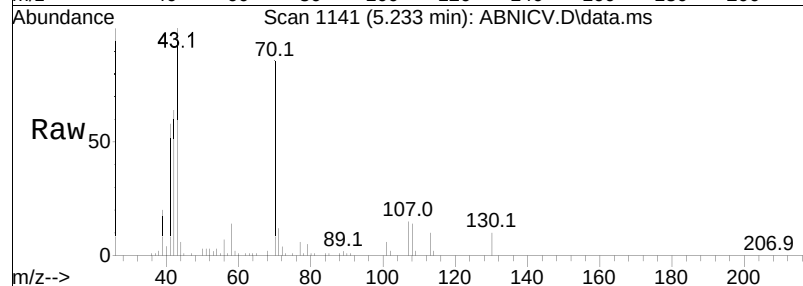
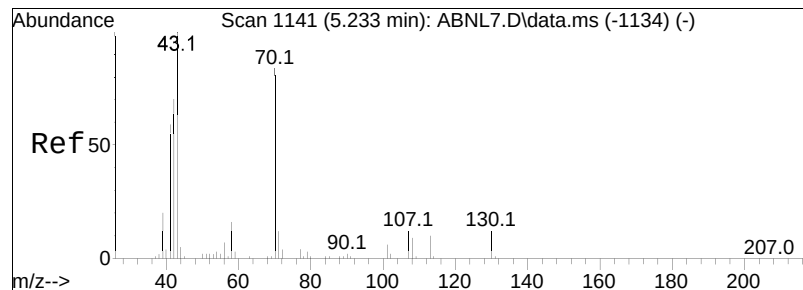




#16
 Hexachloroethane
 Concen: 4.82 ug/ml
 RT: 5.311 min Scan# 1166
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

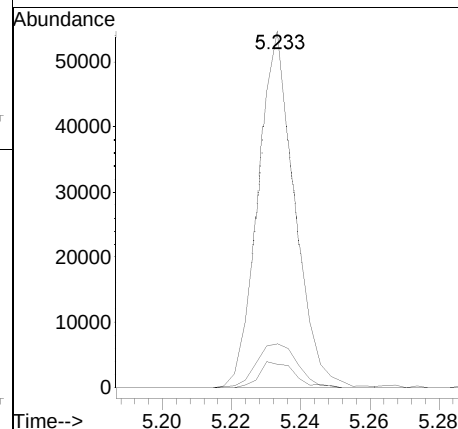
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	23075		
201	124.5		58.6	87.8#
199	74.3		36.9	55.3#

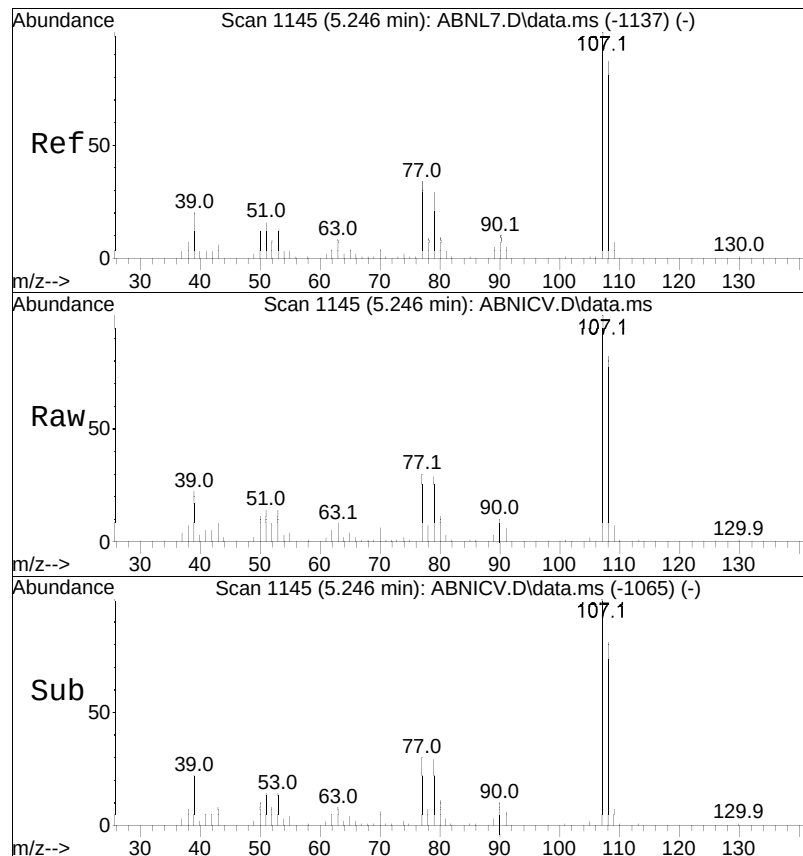




#17
 n-Nitrosodi-n-propylamine
 Concen: 4.92 ug/ml
 RT: 5.233 min Scan# 1141
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

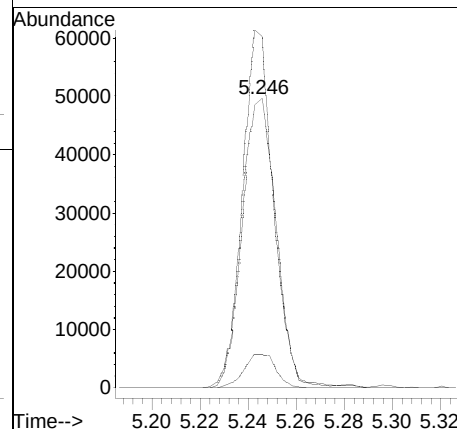
Tgt Ion	Ratio	Lower	Upper
70	100		
130	13.9	18.2	27.4#
101	7.0	7.8	11.8#

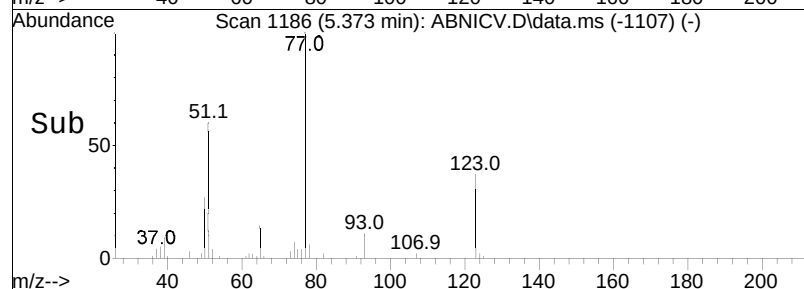
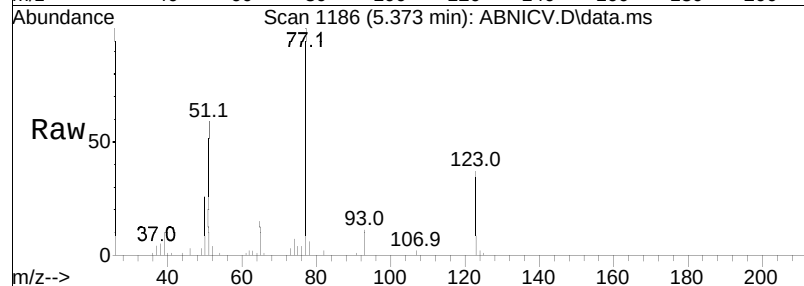
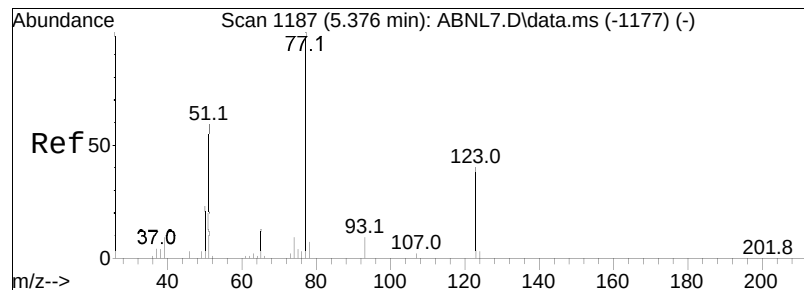




#18
 3-Methylphenol/4-Methylphenol
 Concen: 4.97 ug/ml
 RT: 5.246 min Scan# 1145
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

Tgt Ion	Ratio	Lower	Upper
108	100		
107	111.9	88.6	132.8
90	11.0	8.8	13.2





#20

Nitrobenzene

Concen: 4.77 ug/ml

RT: 5.373 min Scan# 1186

Delta R.T. -0.003 min

Lab File: ABNICV.D

Acq: 17 Apr 2025 12:13 am

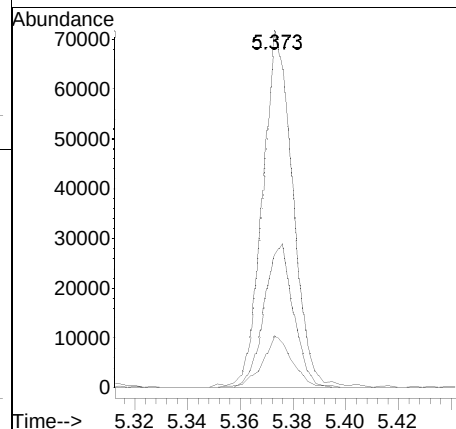
Tgt Ion: 77 Resp: 56822

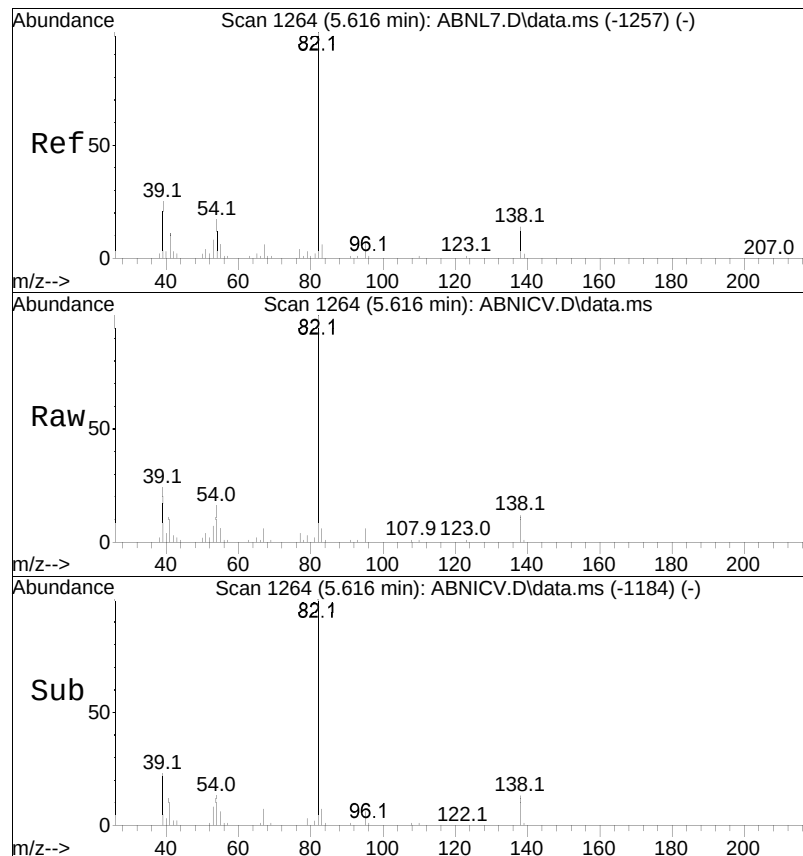
Ion Ratio Lower Upper

77 100

123 39.3 36.3 54.5

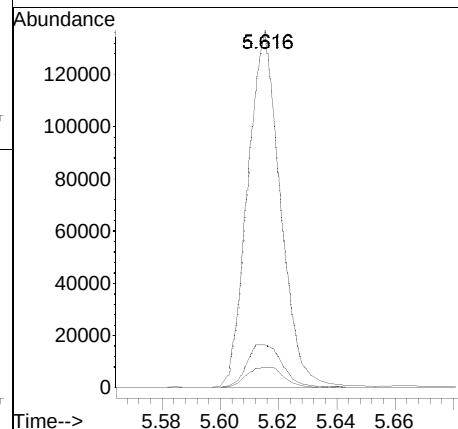
65 14.3 11.6 17.4

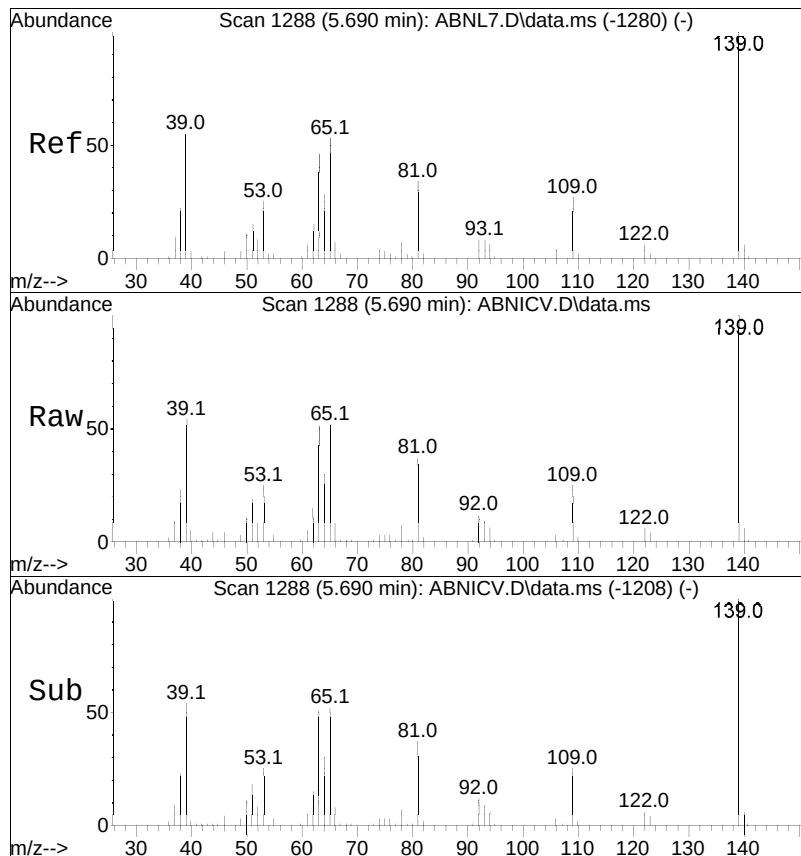




#21
 Isophorone
 Concen: 4.83 ug/ml
 RT: 5.616 min Scan# 1264
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

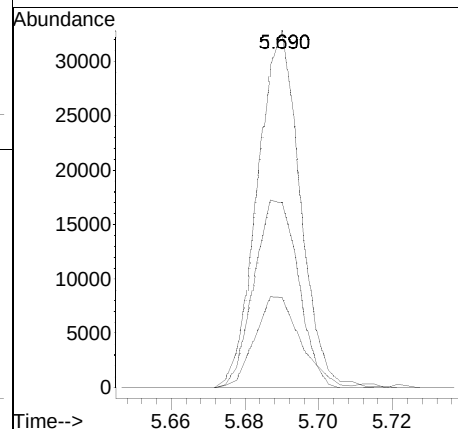
Tgt Ion	Ratio	Lower	Upper
82	100		
138	13.1	14.7	22.1#
95	6.4	5.2	7.8

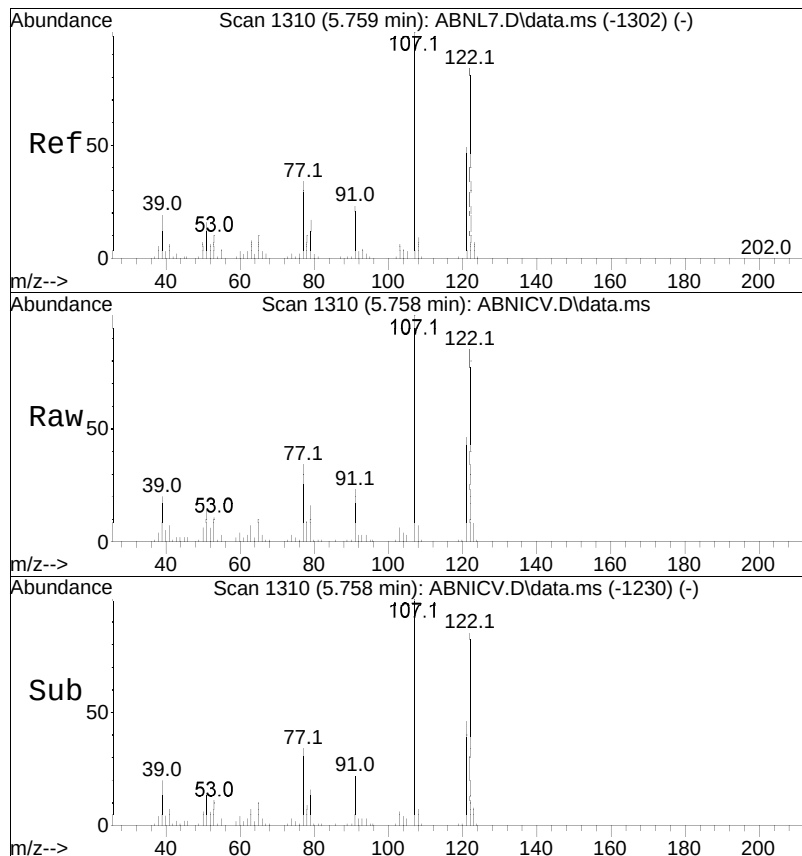




#22
 2-Nitrophenol
 Concen: 4.99 ug/ml
 RT: 5.690 min Scan# 1288
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

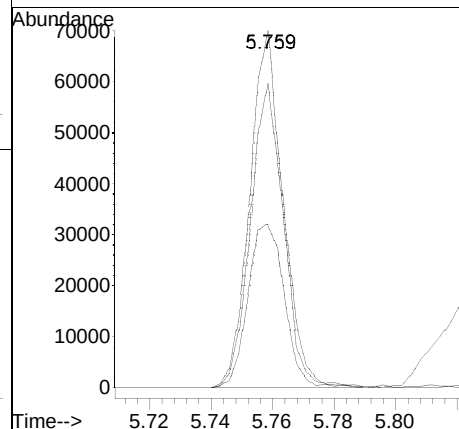
Tgt Ion:	139	Resp:	26230
Ion Ratio	Lower	Upper	
139	100		
109	26.7	19.4	29.0
65	55.3	46.1	69.1

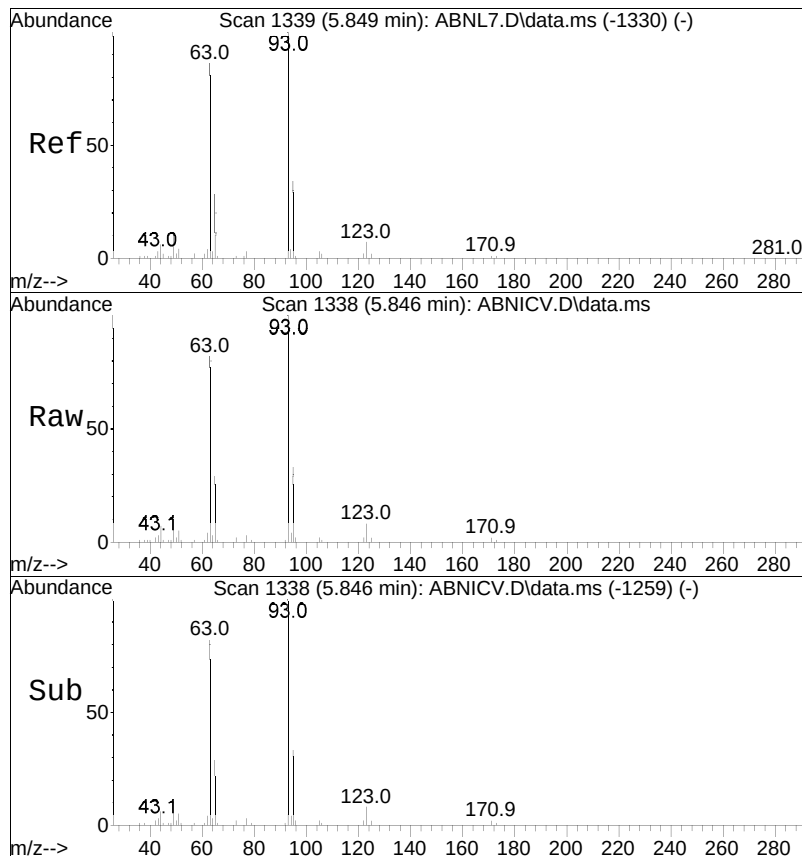




#23
 2,4-Dimethylphenol
 Concen: 4.99 ug/ml
 RT: 5.758 min Scan# 1310
 Delta R.T. -0.001 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

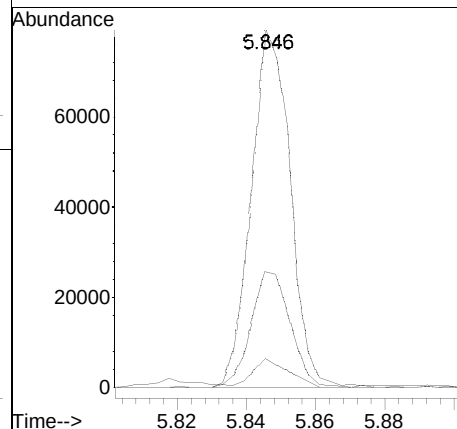
Tgt Ion:	107	Resp:	52292
Ion Ratio	Lower	Upper	
107	100		
121	50.4	40.0	60.0
122	84.8	70.2	105.4

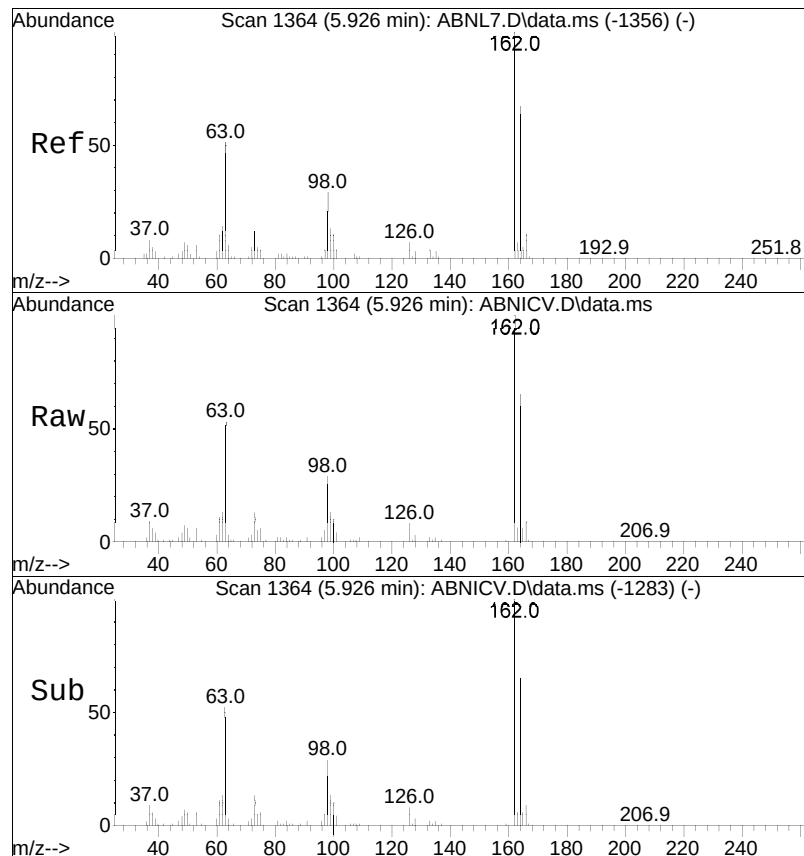




#24
 Bis(2-chloroethoxy)methane
 Concen: 4.77 ug/ml
 RT: 5.846 min Scan# 1338
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

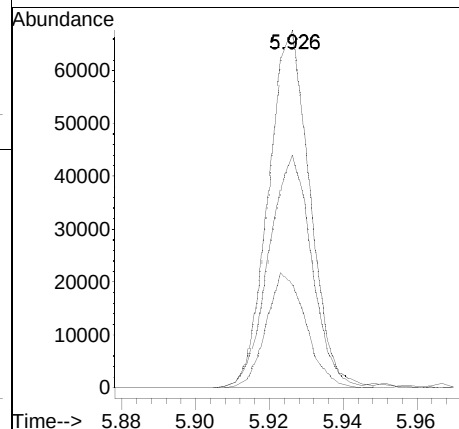
Tgt Ion:	93	Resp:	61519
Ion Ratio	Lower	Upper	
93	100		
95	32.8	25.8	38.8
123	7.4	10.1	15.1#

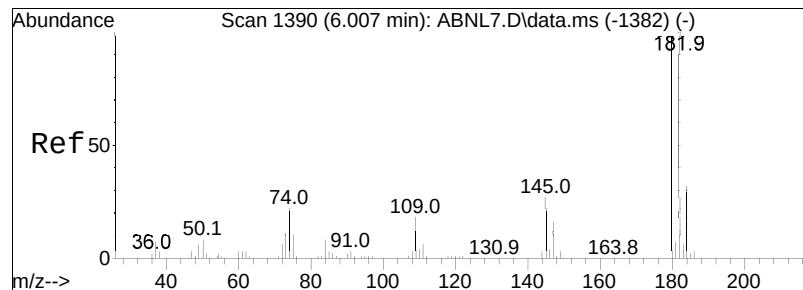




#25
 2,4-Dichlorophenol
 Concen: 4.82 ug/ml
 RT: 5.926 min Scan# 1364
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

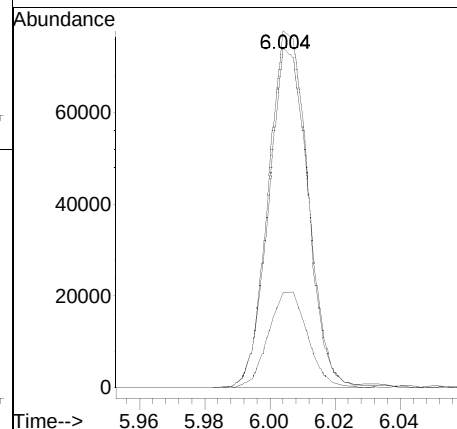
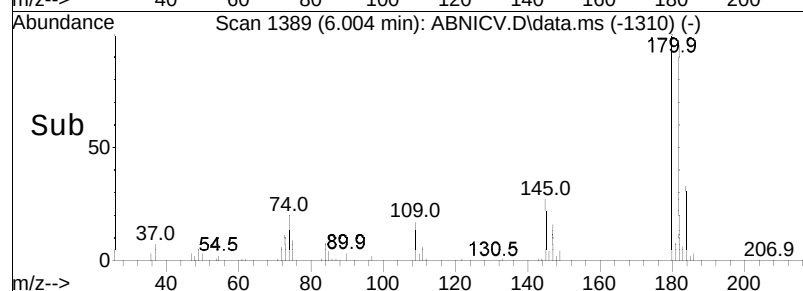
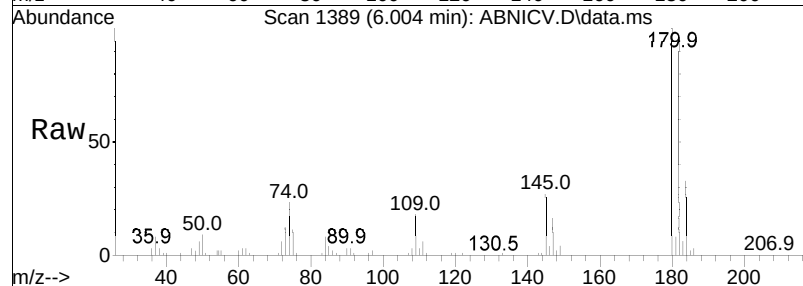
Tgt Ion	Ratio	Resp	Lower	Upper
162	100	52452		
164	68.4		51.0	76.4
98	31.0		32.2	48.2#

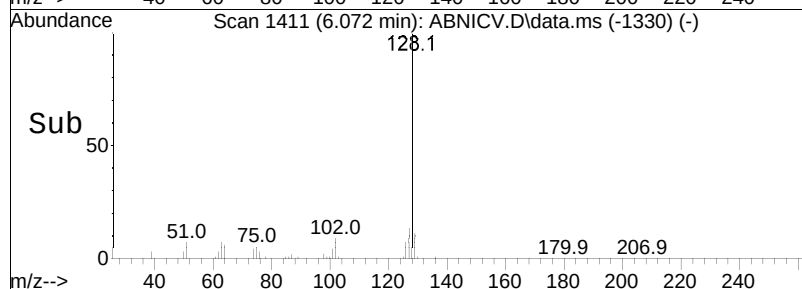
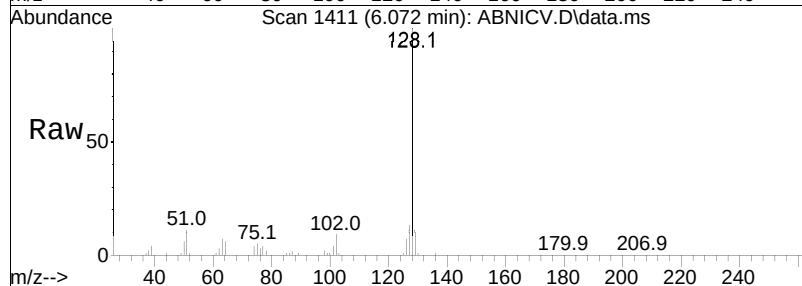
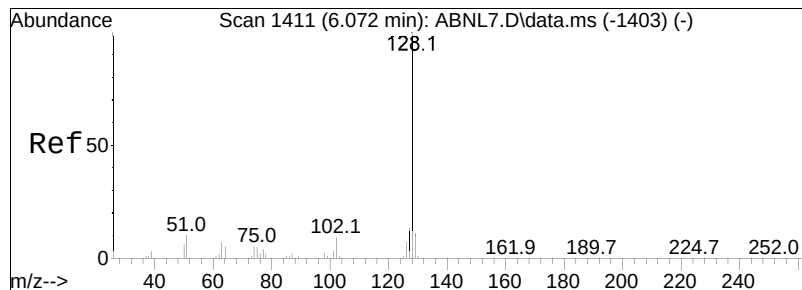




#26
 1,2,4-Trichlorobenzene
 Concen: 4.80 ug/ml
 RT: 6.004 min Scan# 1389
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.1	76.0	114.0
145	26.8	25.7	38.5





#38

Naphthalene

Concen: 4.64 ug/ml

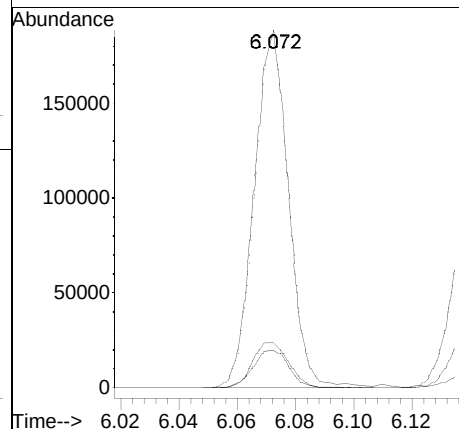
RT: 6.072 min Scan# 1411

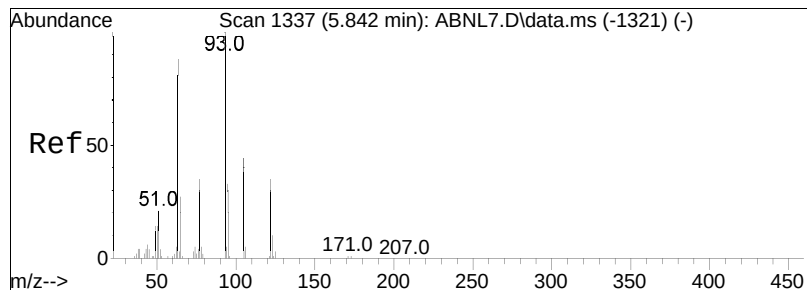
Delta R.T. 0.000 min

Lab File: ABNICV.D

Acq: 17 Apr 2025 12:13 am

Tgt	Ion	Ratio	Lower	Upper
128	100			
129	11.0	8.7	13.1	
127	13.5	10.3	15.5	





#39

Benzoic Acid

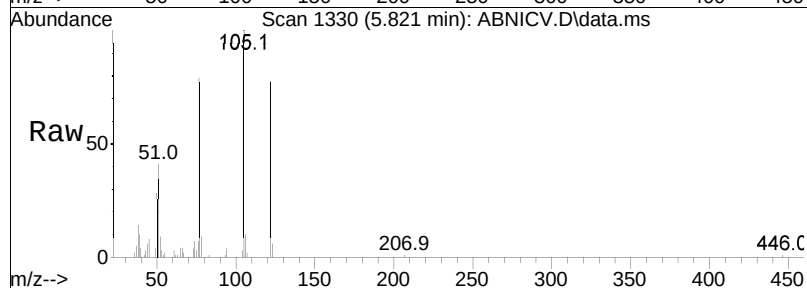
Concen: 4.16 ug/ml

RT: 5.821 min Scan# 1330

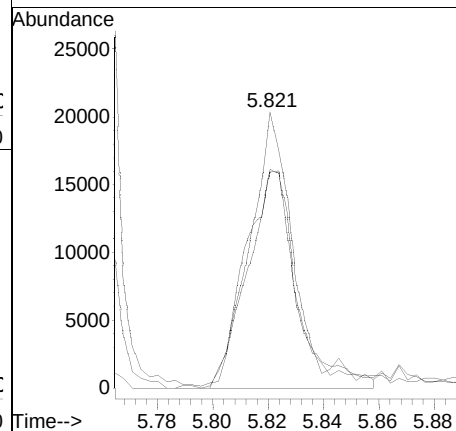
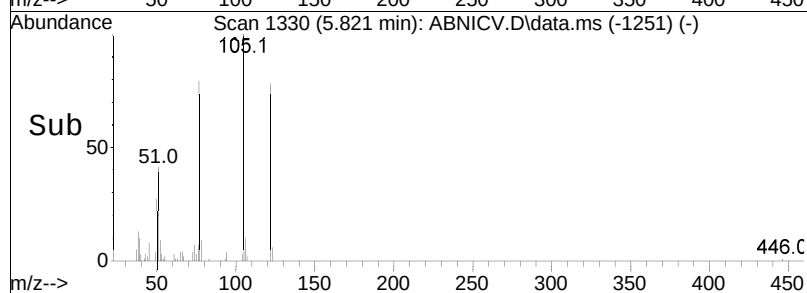
Delta R.T. -0.003 min

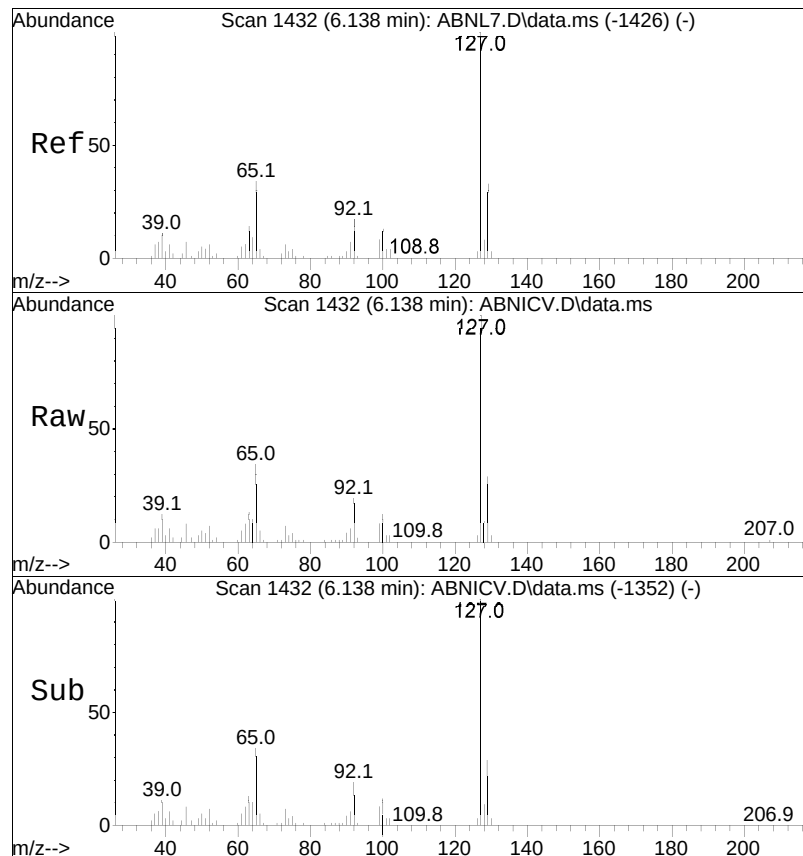
Lab File: ABNICV.D

Acq: 17 Apr 2025 12:13 am



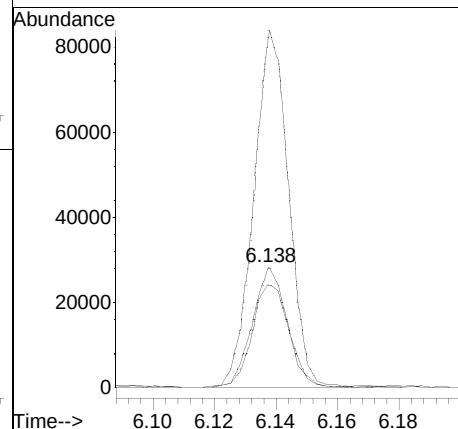
Tgt Ion:	105	Resp:	23239
Ion Ratio	Lower	Upper	
105	100		
122	81.0	59.9	89.9
77	83.1	60.1	90.1

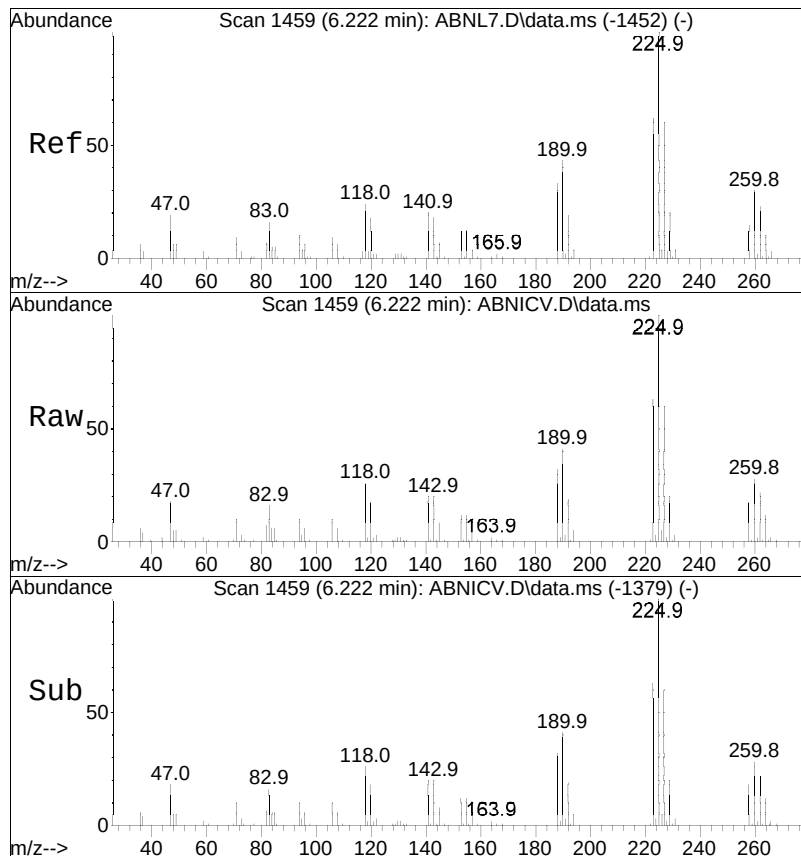




#40
 4-Chloroaniline
 Concen: 4.90 ug/ml
 RT: 6.138 min Scan# 1432
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

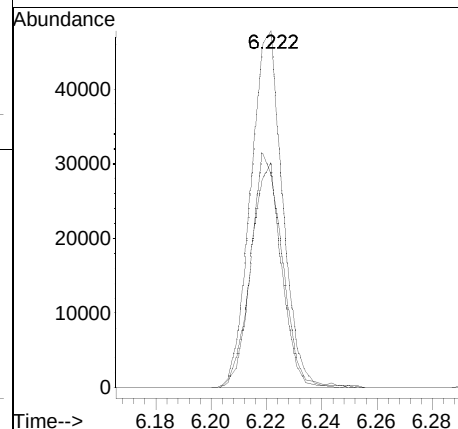
Tgt Ion:	65	Resp:	22098
Ion Ratio	Lower	Upper	
65	100		
127	295.2	237.6	356.4
129	91.2	76.3	114.5

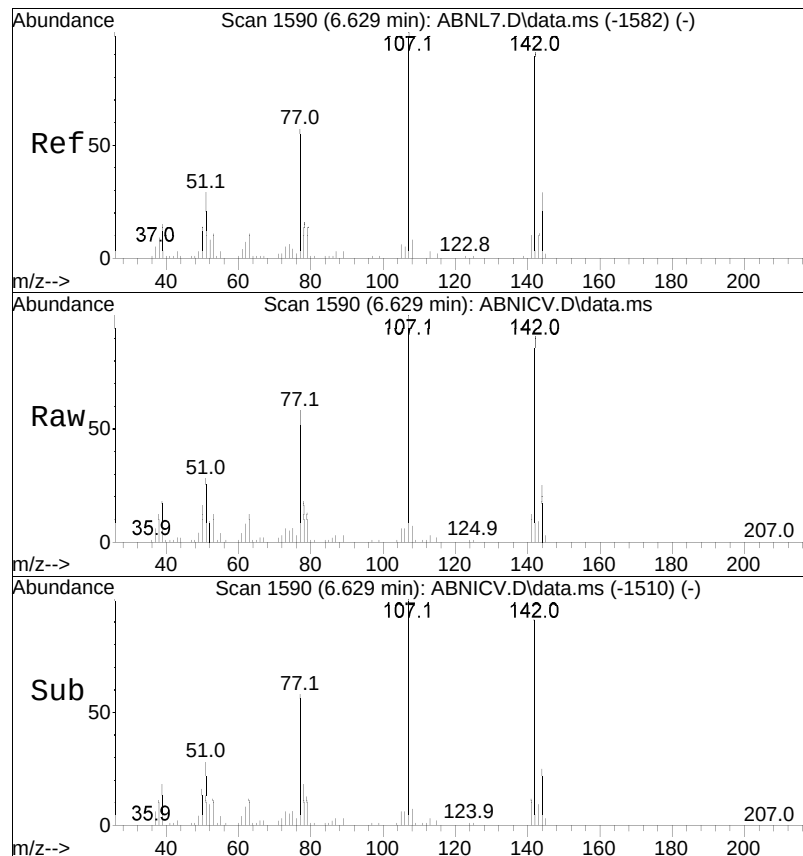




#41
 Hexachlorobutadiene
 Concen: 4.71 ug/ml
 RT: 6.222 min Scan# 1459
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

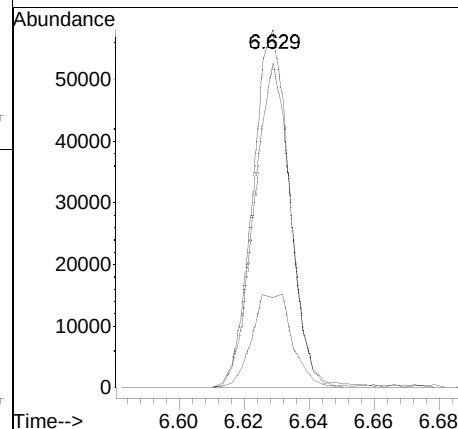
Tgt Ion:	225	Resp:	38343
Ion Ratio	Lower	Upper	
225	100		
223	60.1	50.3	75.5
227	65.3	52.2	78.2

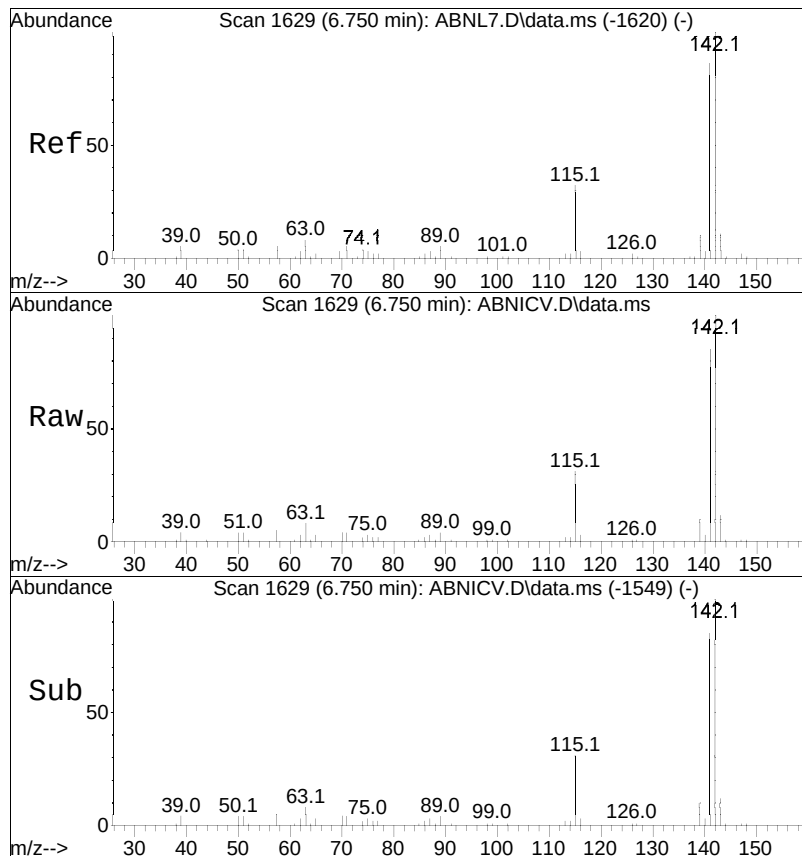




#42
 p-Chloro-m-cresol
 Concen: 4.93 ug/ml
 RT: 6.629 min Scan# 1590
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

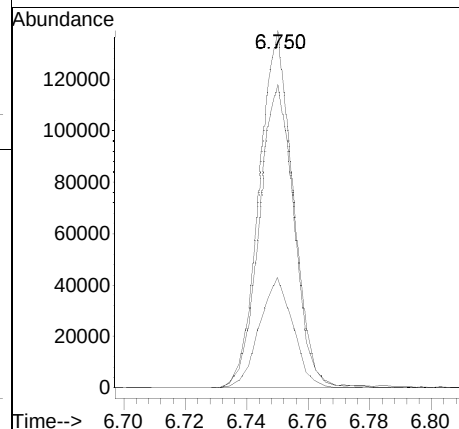
Tgt	Ion:107	Resp:	45155
Ion	Ratio	Lower	Upper
107	100		
144	28.6	20.9	31.3
142	90.1	66.1	99.1

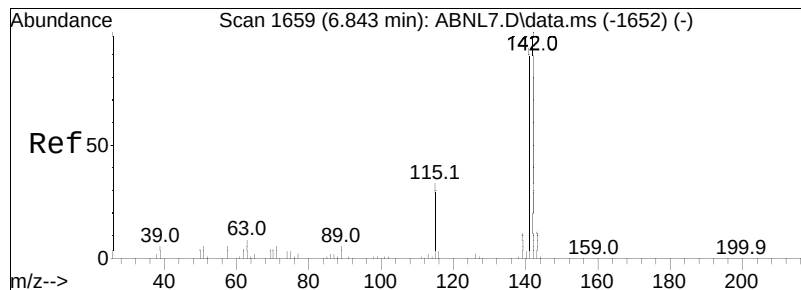




#43
 2-Methylnaphthalene
 Concen: 4.97 ug/ml
 RT: 6.750 min Scan# 1629
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

Tgt Ion	Ratio	Lower	Upper
142	100		
141	87.1	69.6	104.4
115	30.8	26.6	40.0





#44

1-Methylnaphthalene

Concen: 5.01 ug/ml

RT: 6.843 min Scan# 1659

Delta R.T. 0.000 min

Lab File: ABNICV.D

Acq: 17 Apr 2025 12:13 am

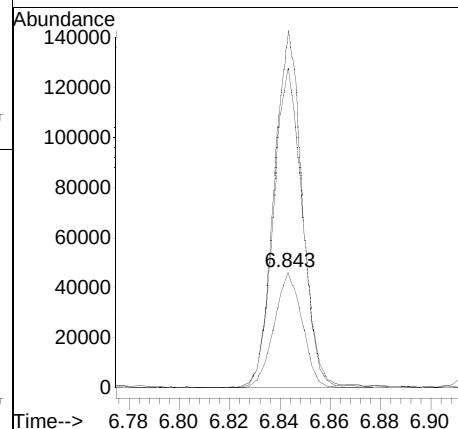
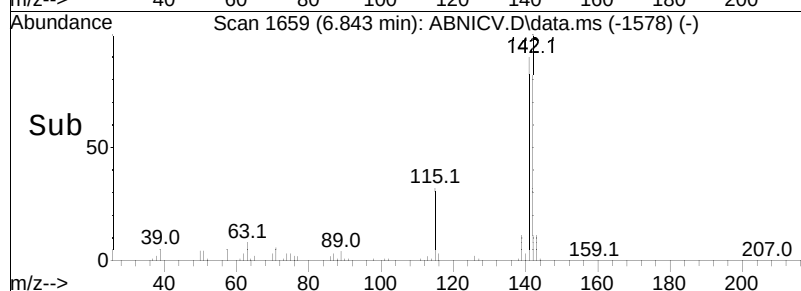
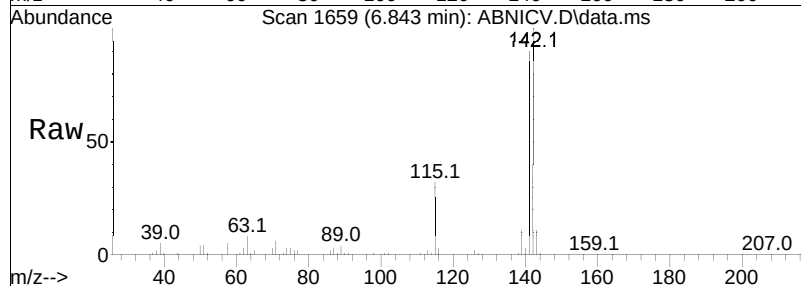
Tgt Ion:115 Resp: 36502

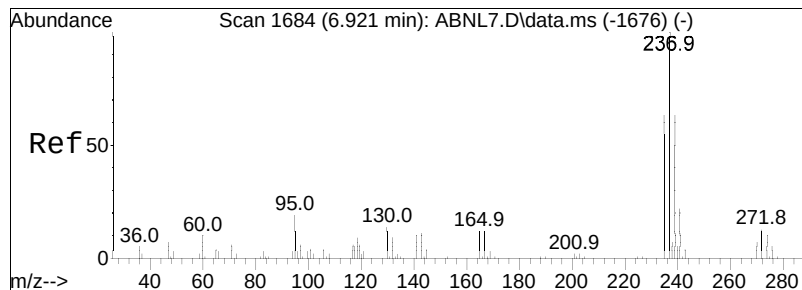
Ion Ratio Lower Upper

115 100

141 277.2 207.8 311.6

142 308.3 226.8 340.2





#45

Hexachlorocyclopentadiene

Concen: 4.67 ug/ml

RT: 6.918 min Scan# 1683

Delta R.T. -0.003 min

Lab File: ABNICV.D

Acq: 17 Apr 2025 12:13 am

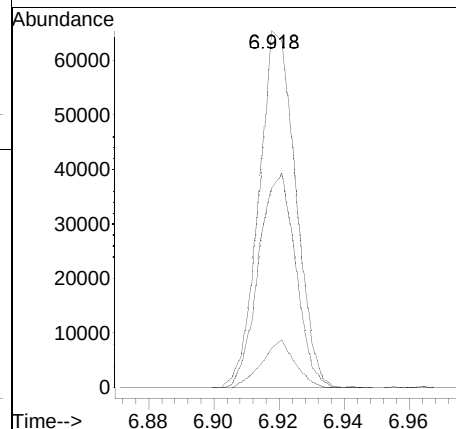
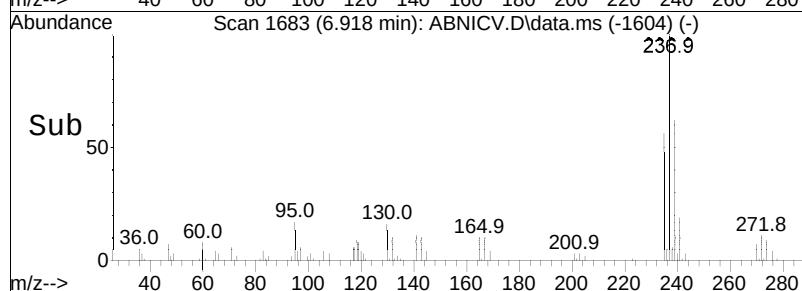
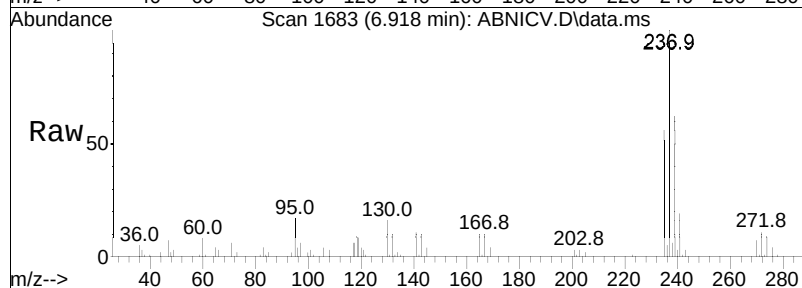
Tgt Ion: 237 Resp: 51289

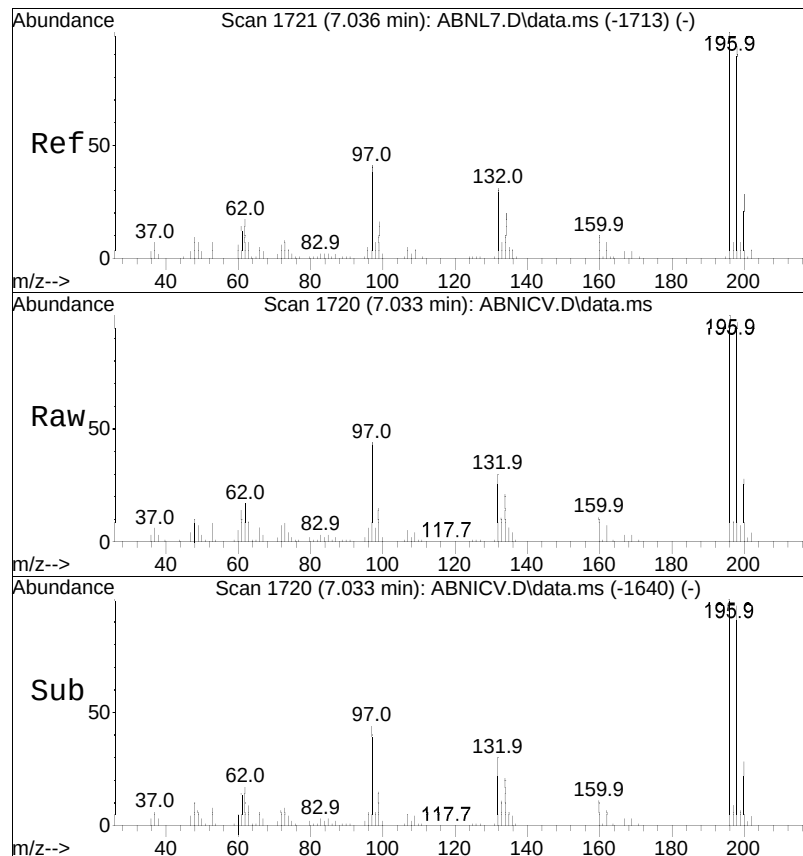
Ion Ratio Lower Upper

237 100

235 61.1 49.7 74.5

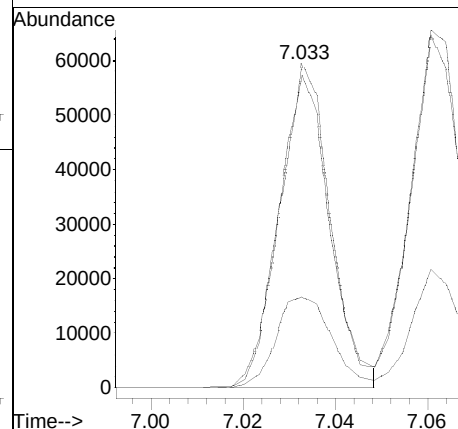
272 12.3 9.8 14.6

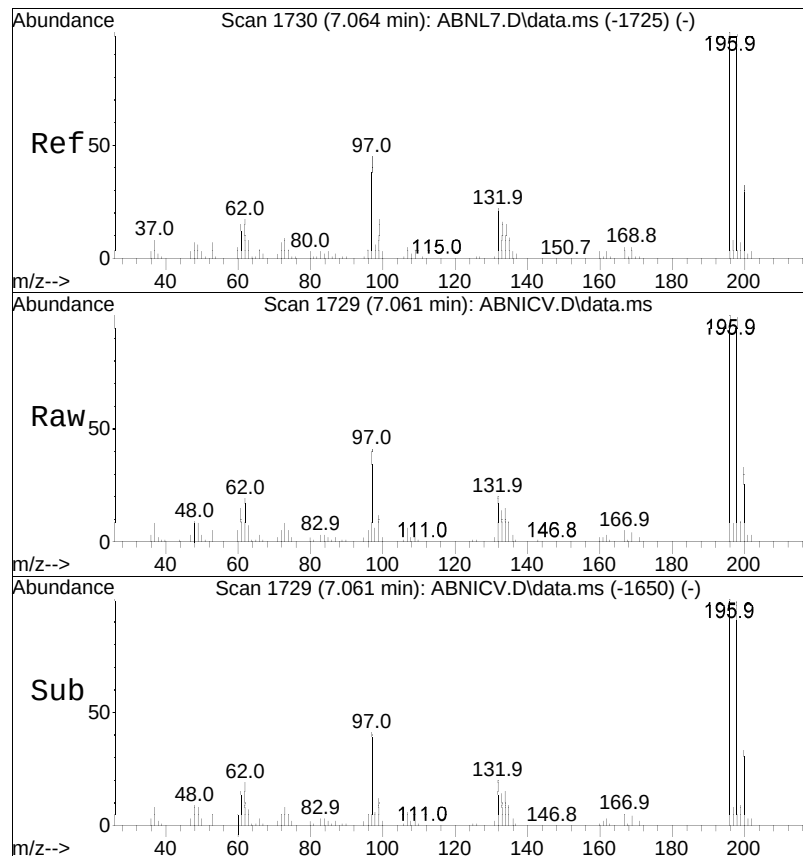




#46
 2,4,6-Trichlorophenol
 Concen: 4.76 ug/ml
 RT: 7.033 min Scan# 1720
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

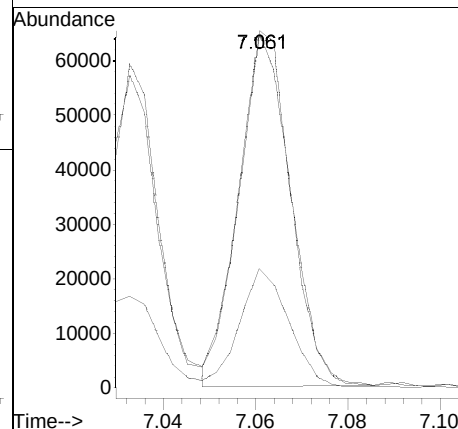
Tgt Ion	Ratio	Lower	Upper
196	100		
198	97.5	77.5	116.3
200	31.2	23.8	35.6

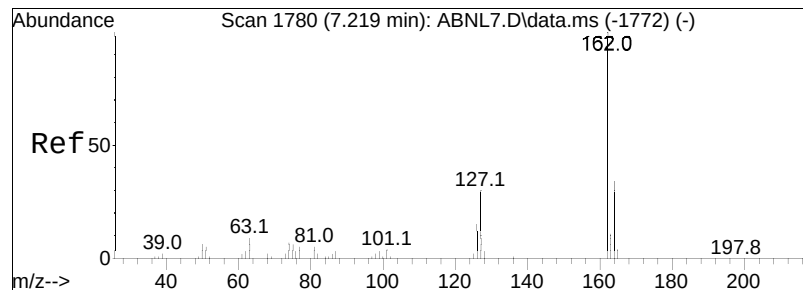




#47
 2,4,5-Trichlorophenol
 Concen: 4.87 ug/ml
 RT: 7.061 min Scan# 1729
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

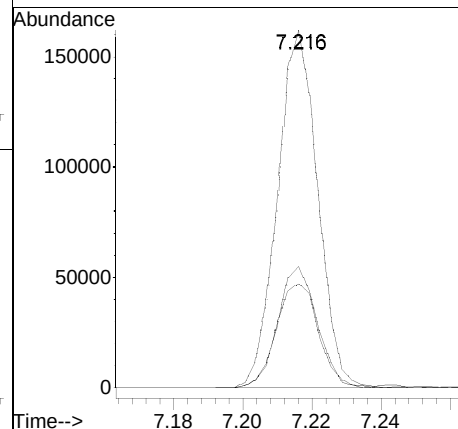
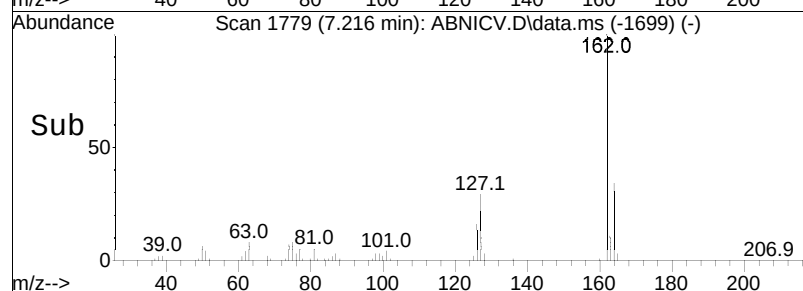
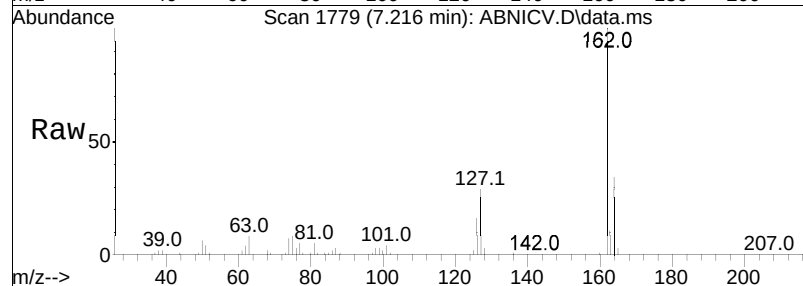
Tgt Ion:	196	Resp:	51407
Ion Ratio	Lower	Upper	
196	100		
200	31.1	25.4	38.0
198	96.4	78.0	117.0

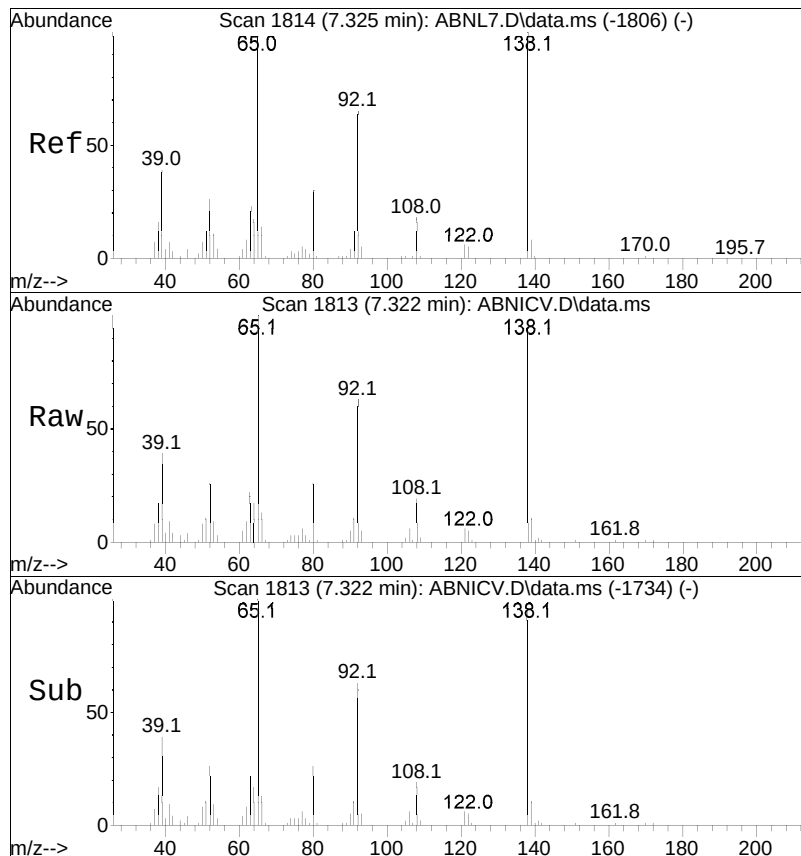




#49
 2-Chloronaphthalene
 Concen: 4.80 ug/ml
 RT: 7.216 min Scan# 1779
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

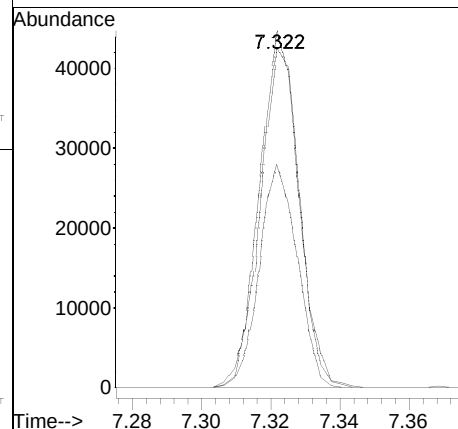
Tgt Ion	Ratio	Lower	Upper
162	100		
127	30.8	32.2	48.4#
164	33.4	25.7	38.5

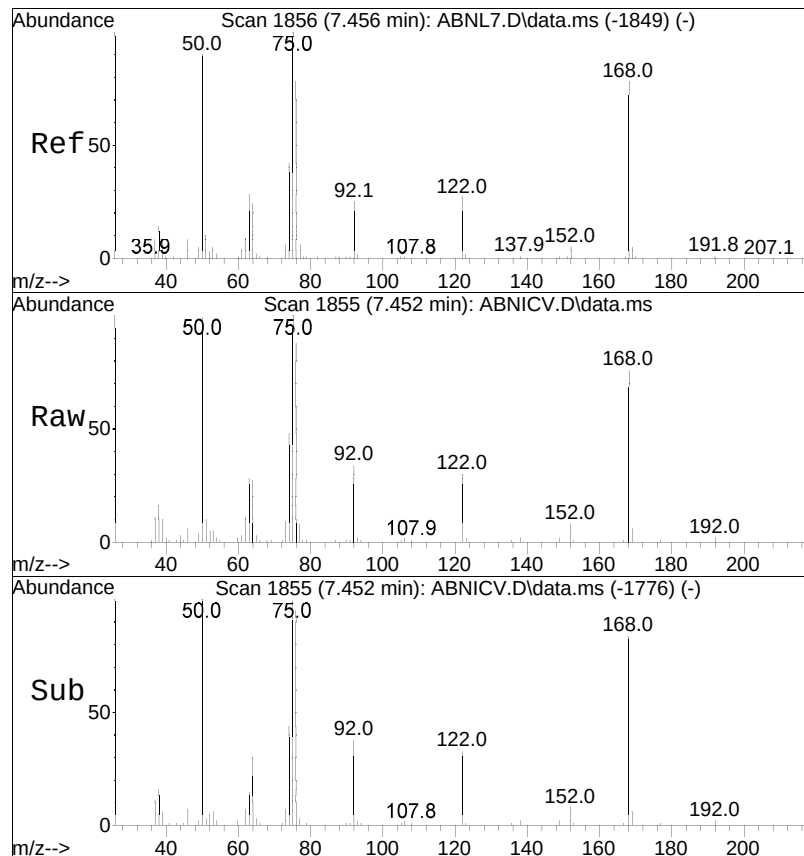




#50
 2-Nitroaniline
 Concen: 4.82 ug/ml
 RT: 7.322 min Scan# 1813
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

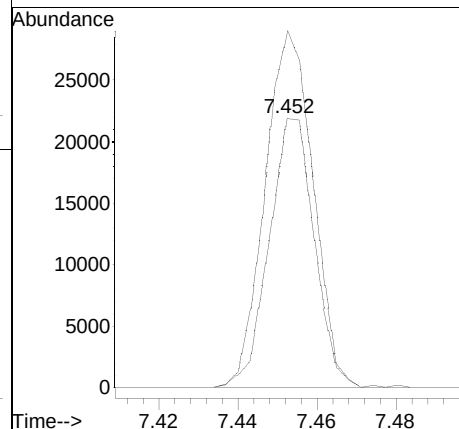
Tgt	Ion	Ratio	Lower	Upper
138	100			
92	64.0	53.5	80.3	
65	105.2	86.3	129.5	

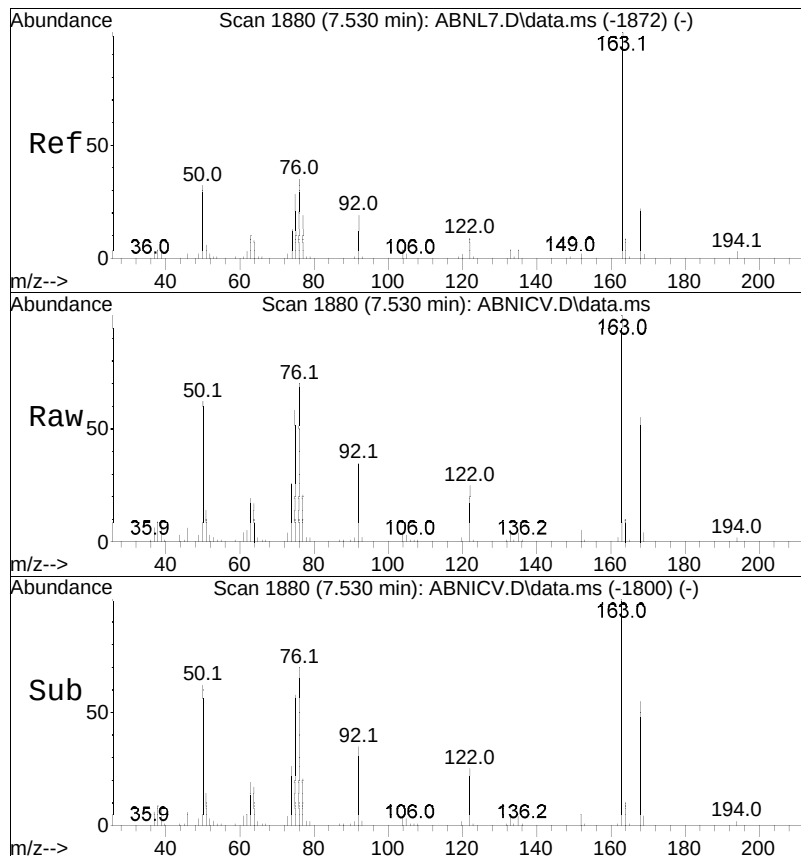




#51
 1,4-Dinitrobenzene
 Concen: 4.89 ug/ml
 RT: 7.452 min Scan# 1855
 Delta R.T. -0.004 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

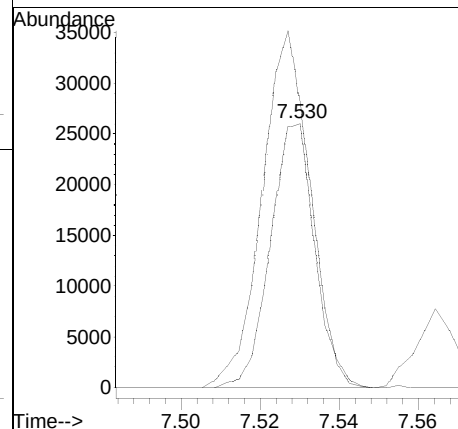
Tgt	Ion	Ratio	Lower	Upper
168	100			
75	141.0	121.8	182.8	

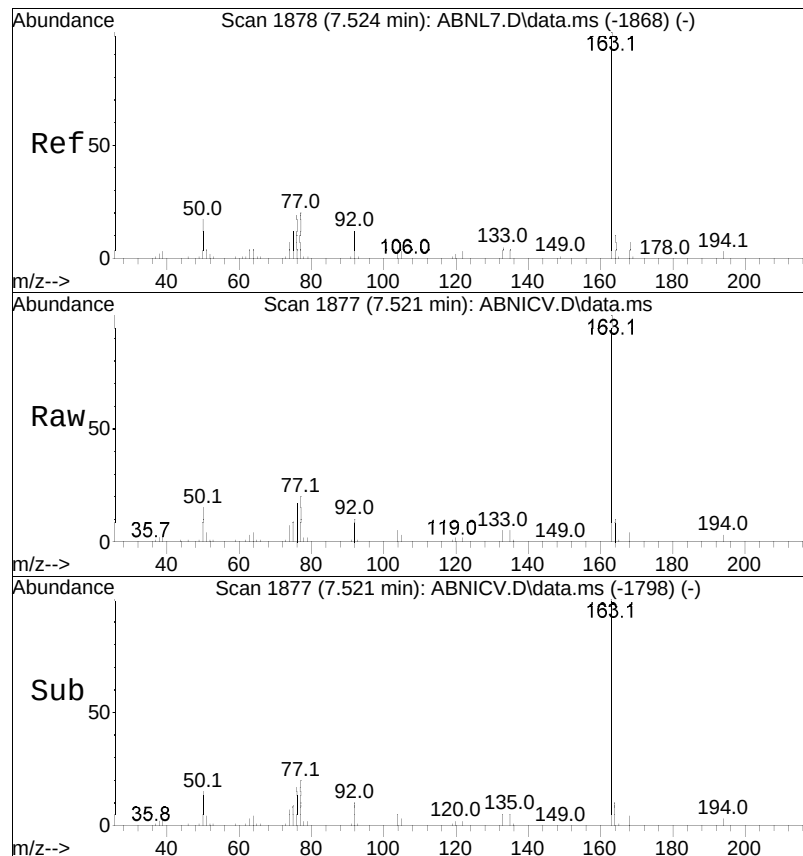




#52
 1,3-Dinitrobenzene
 Concen: 4.67 ug/ml
 RT: 7.530 min Scan# 1880
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

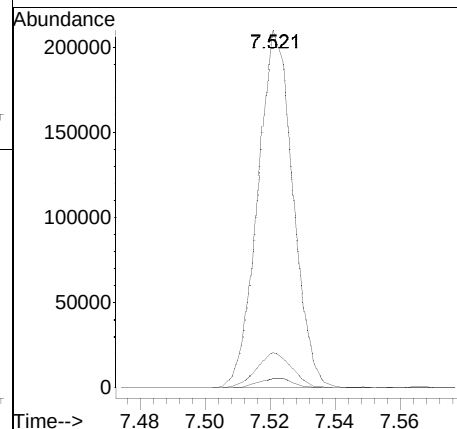
Tgt Ion:168 Resp: 20279
 Ion Ratio Lower Upper
 168 100
 75 145.9 22.7 34.1#

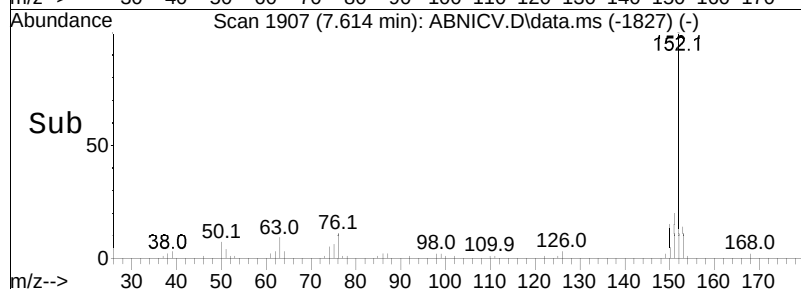
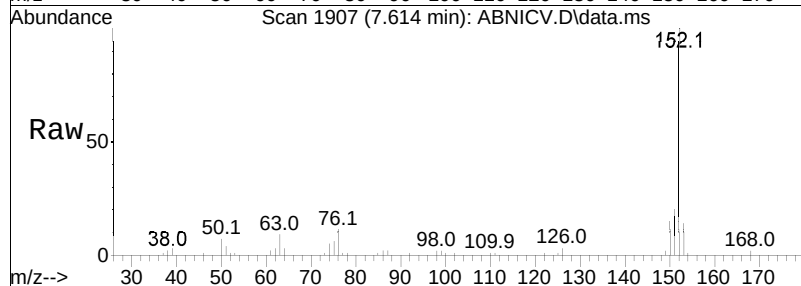
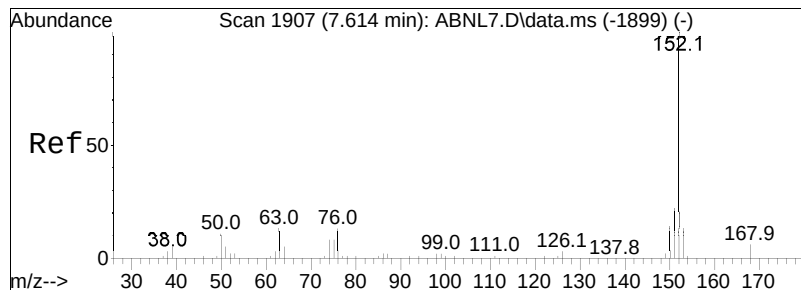




#53
 Dimethyl phthalate
 Concen: 4.81 ug/ml
 RT: 7.521 min Scan# 1877
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

Tgt Ion	Ratio	Lower	Upper
163	100		
194	2.7	3.5	5.3#
164	10.1	7.9	11.9





#54

Acenaphthylene

Concen: 4.87 ug/ml

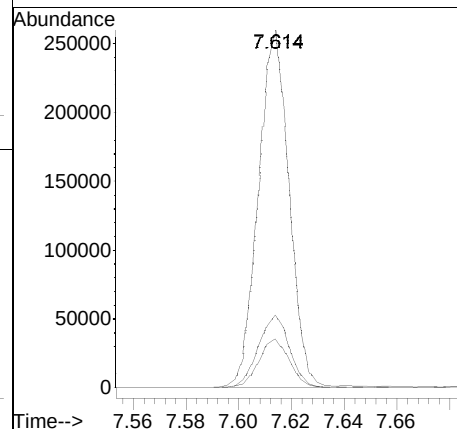
RT: 7.614 min Scan# 1907

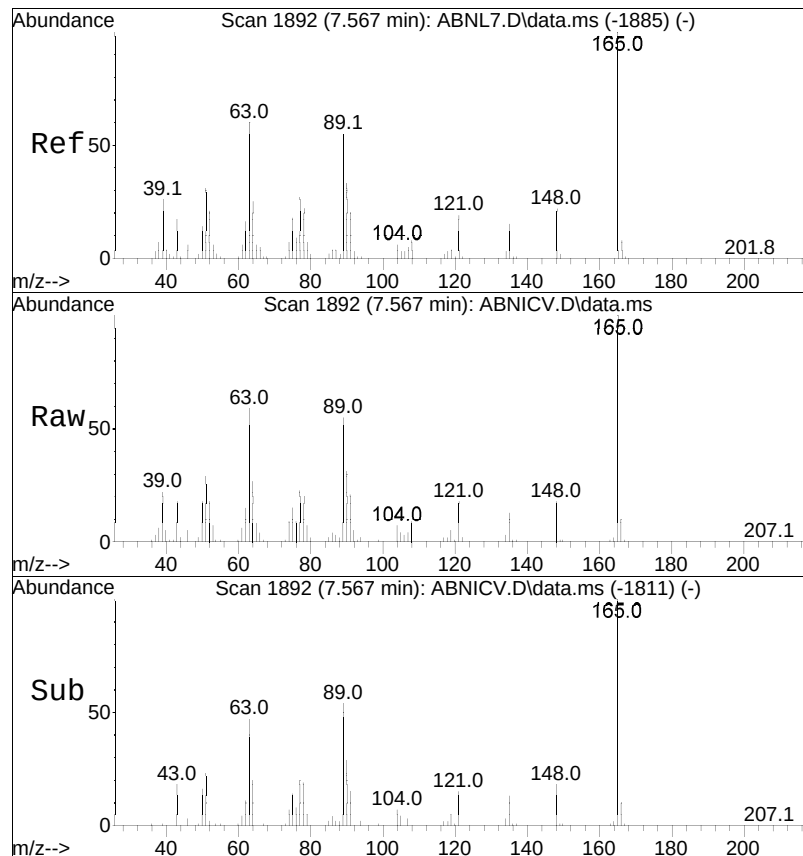
Delta R.T. 0.000 min

Lab File: ABNICV.D

Acq: 17 Apr 2025 12:13 am

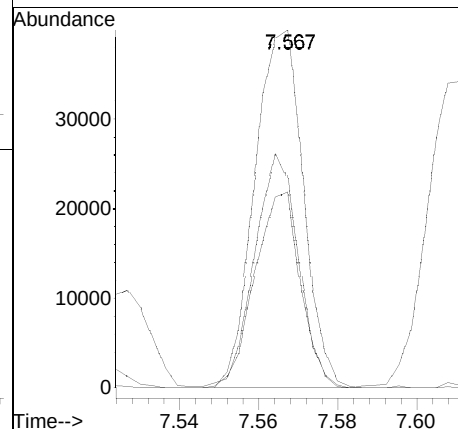
Tgt Ion:	152	Resp:	208328
Ion Ratio	Lower	Upper	
152	100		
151	20.6	15.8	23.6
153	13.7	10.5	15.7

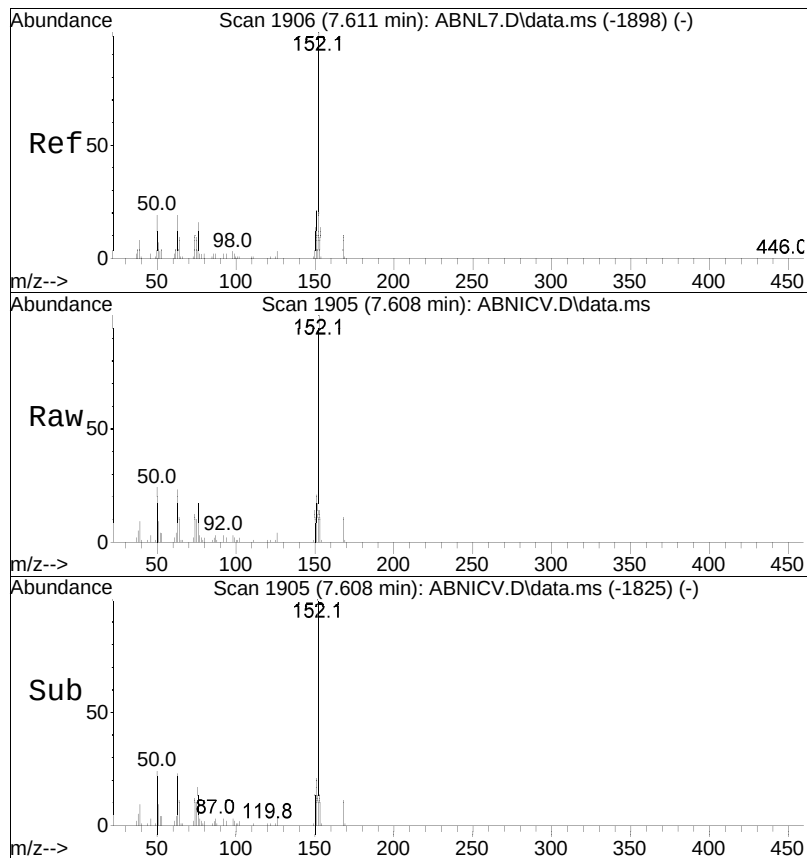




#55
 2,6-Dinitrotoluene
 Concen: 5.22 ug/ml
 RT: 7.567 min Scan# 1892
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

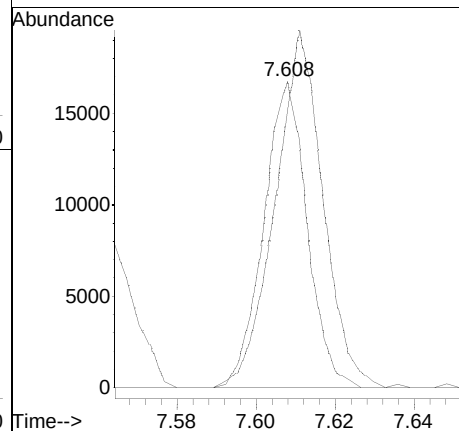
Tgt	Ion	Ratio	Resp	Lower	Upper
165	100		34054		
89	51.4	54.2		81.2#	
63	59.2	64.2		96.2#	

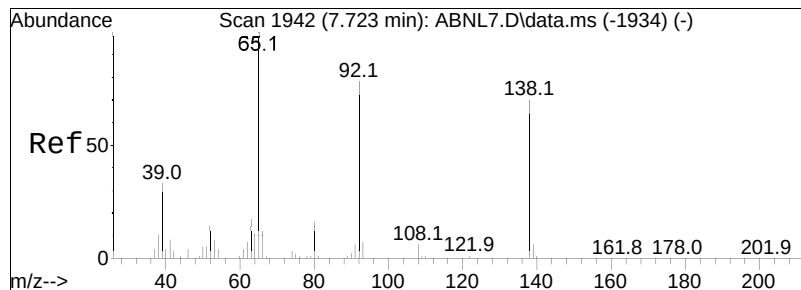




#56
 1,2-Dinitrobenzene
 Concen: 4.70 ug/ml
 RT: 7.608 min Scan# 1905
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

Tgt	Ion	Ratio	Lower	Upper
168	100			
75	128.3	30.9	46.3	





#66

3-Nitroaniline

Concen: 5.27 ug/ml

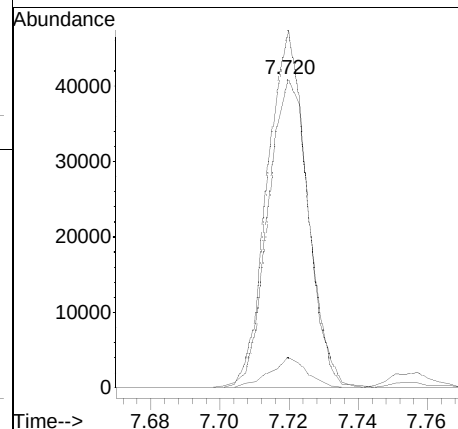
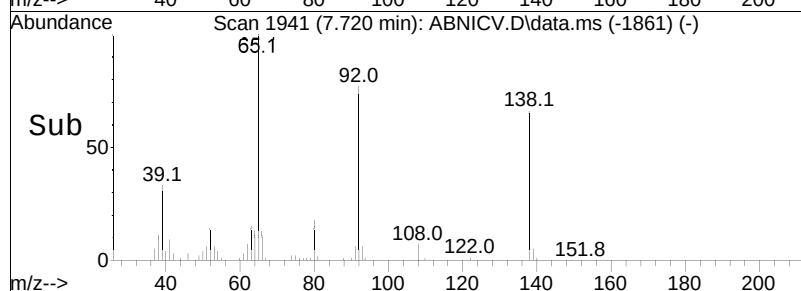
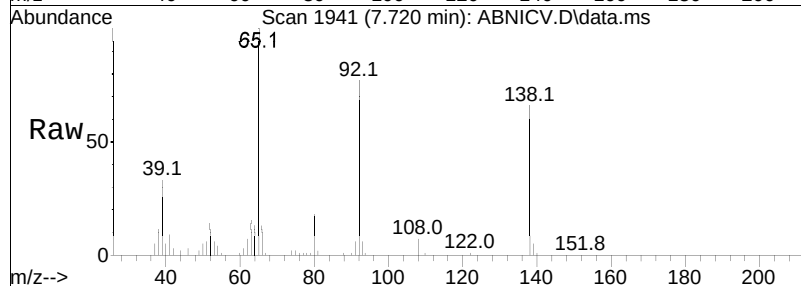
RT: 7.720 min Scan# 1941

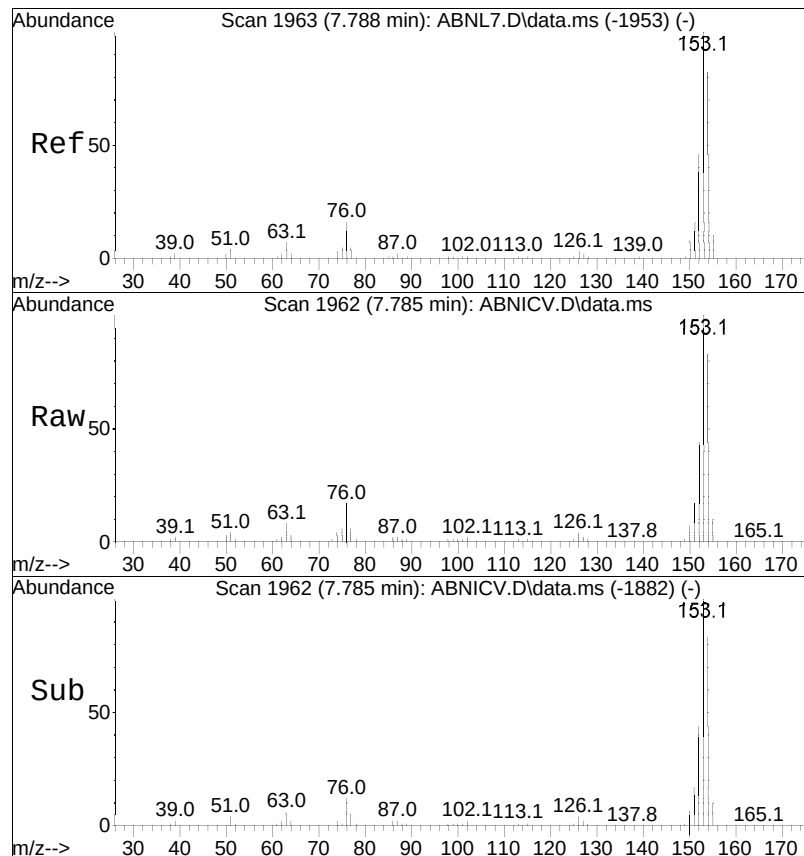
Delta R.T. -0.000 min

Lab File: ABNICV.D

Acq: 17 Apr 2025 12:13 am

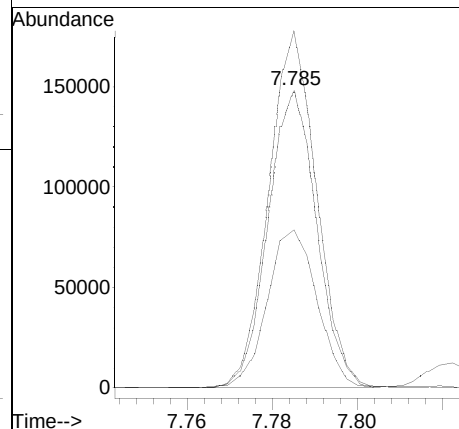
Tgt	Ion:138	Resp:	33346
Ion	Ratio	Lower	Upper
138	100		
92	111.5	93.4	140.2
108	8.8	9.5	14.3#

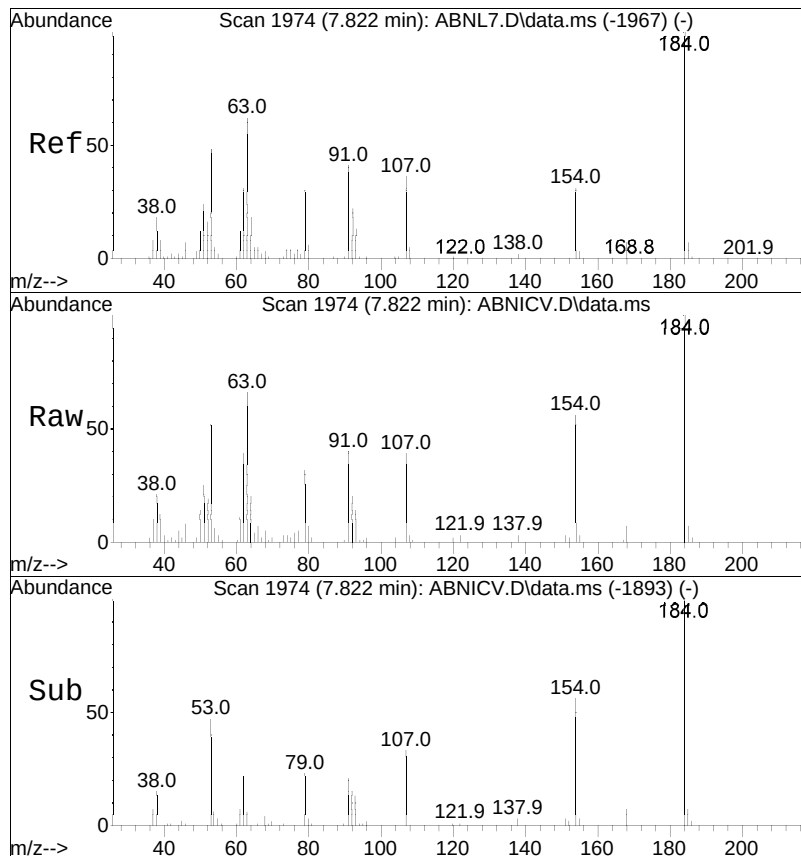




#67
 Acenaphthene
 Concen: 4.82 ug/ml
 RT: 7.785 min Scan# 1962
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

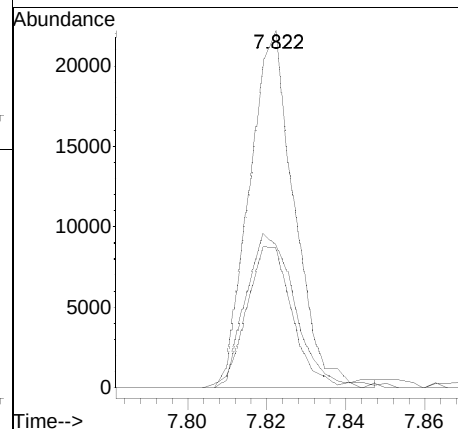
Tgt	Ion	Ratio	Lower	Upper
154	100			
153	118.8	85.3	127.9	
152	54.9	41.4	62.0	

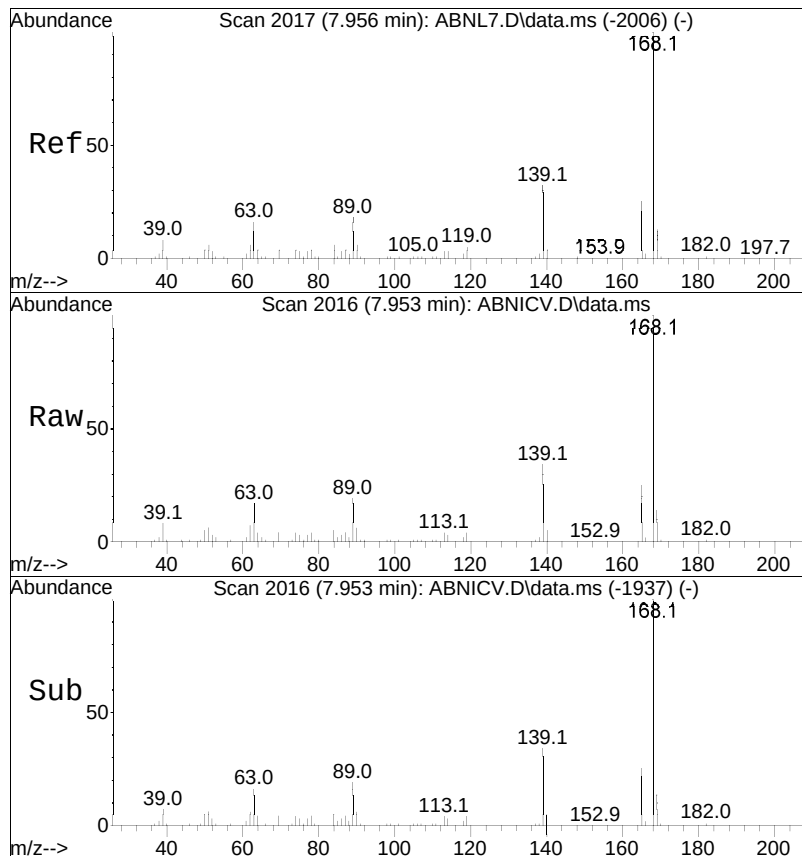




#68
 2,4-Dinitrophenol
 Concen: 4.06 ug/ml
 RT: 7.822 min Scan# 1974
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

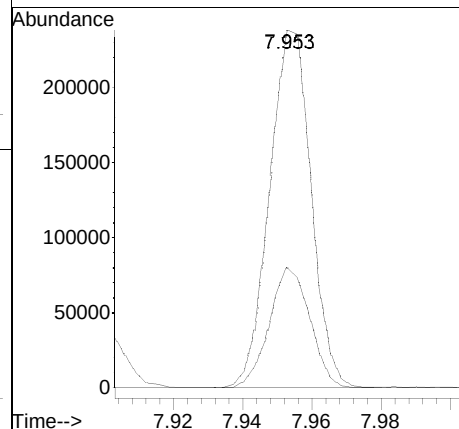
Tgt Ion	Ratio	Lower	Upper
184	100		
107	40.6	37.7	56.5
91	47.5	46.3	69.5

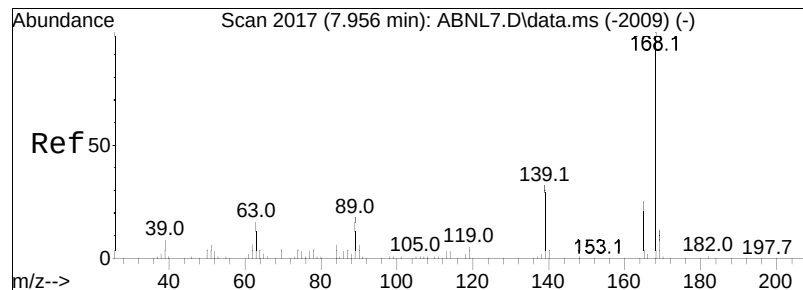




#69
 Dibenzofuran
 Concen: 4.54 ug/ml
 RT: 7.953 min Scan# 2016
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

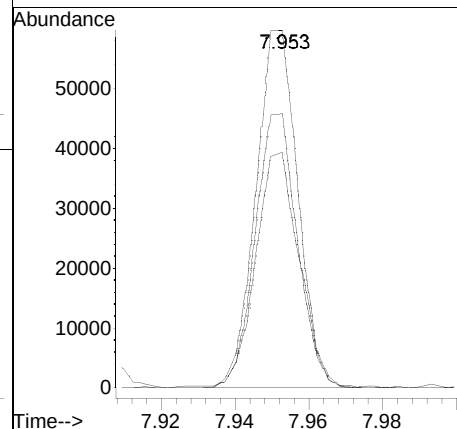
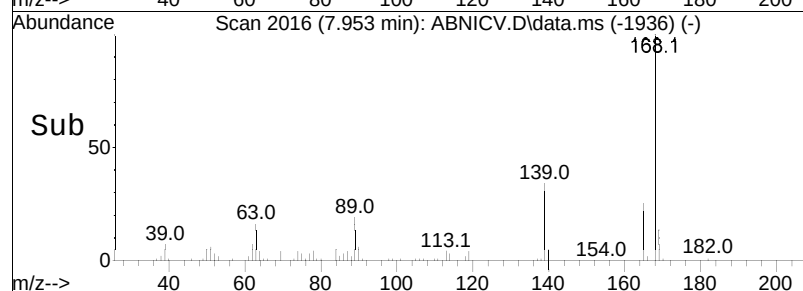
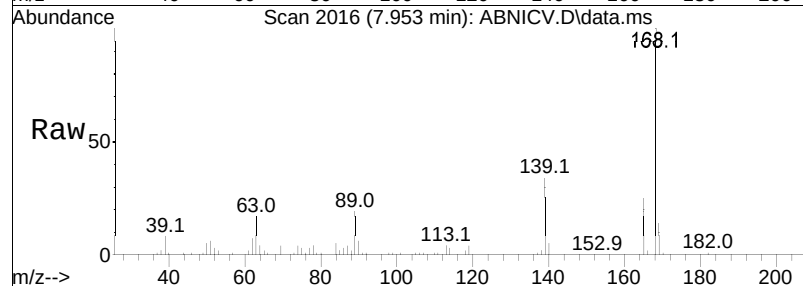
Tgt	Ion	Ratio	Lower	Upper
168	100			
139	33.0	31.4	47.2	

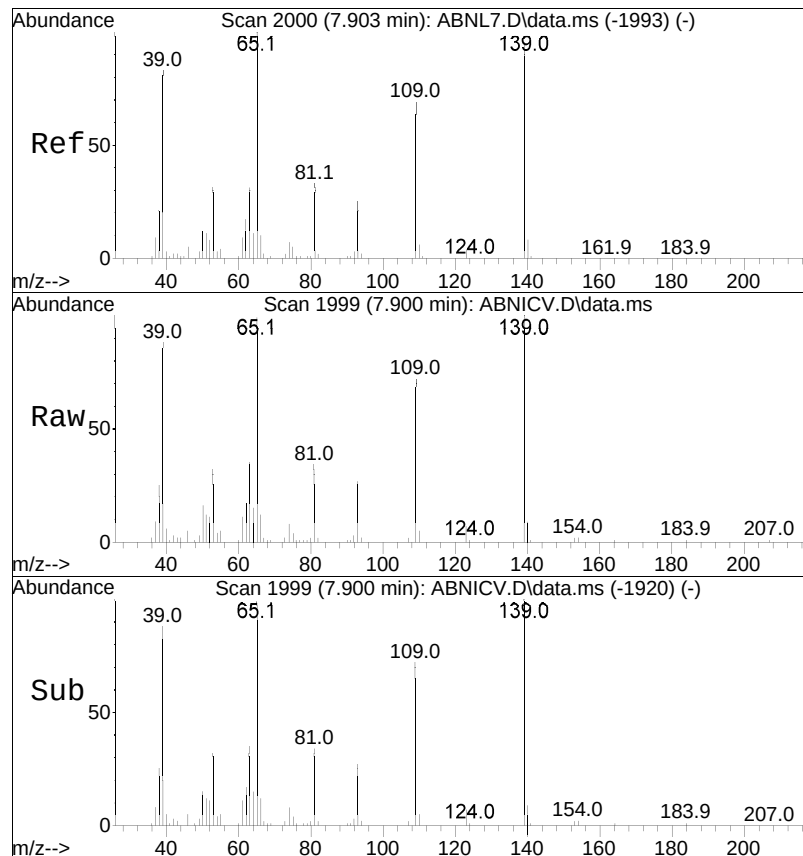




#70
 2,4-Dinitrotoluene
 Concen: 5.05 ug/ml
 RT: 7.953 min Scan# 2016
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

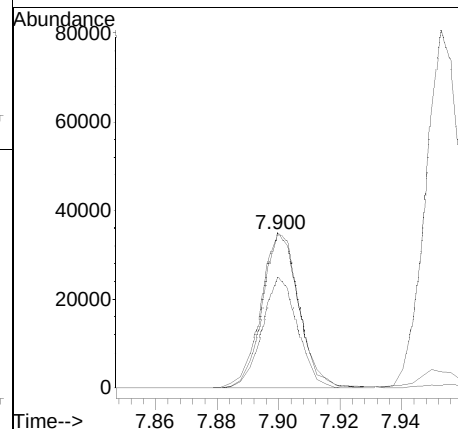
Tgt Ion:	165	Resp:	46984
Ion Ratio	Lower	Upper	
165	100		
89	76.7	72.0	108.0
63	68.3	52.7	79.1

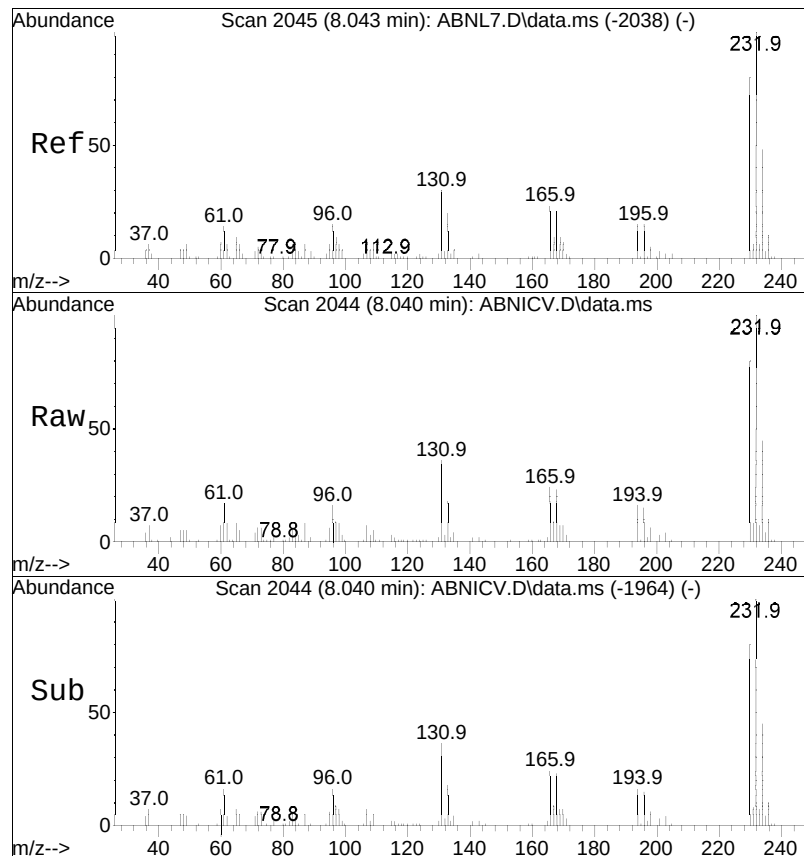




#71
 4-Nitrophenol
 Concen: 5.20 ug/ml
 RT: 7.900 min Scan# 1999
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

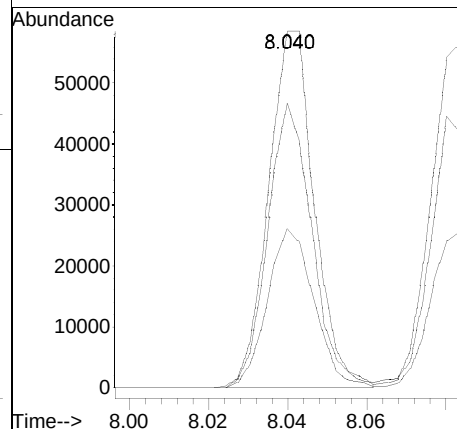
Tgt Ion	Ratio	Resp	Lower	Upper
65	100	29826		
109	67.5		47.4	71.2
139	95.9		76.6	115.0

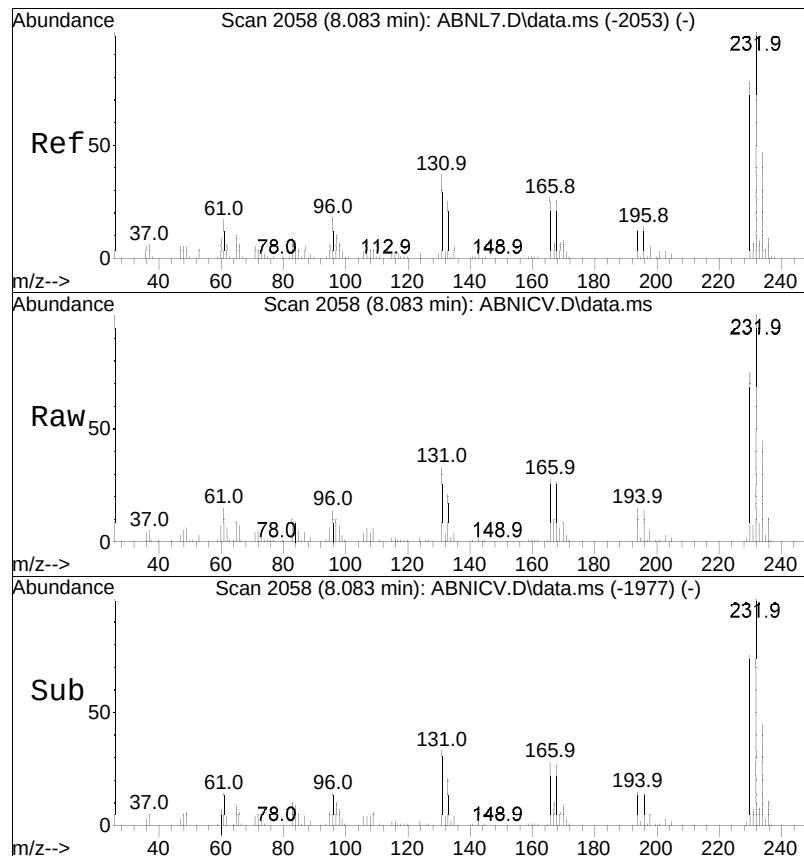




#72
 2,3,5,6-Tetrachlorophenol
 Concen: 5.02 ug/ml
 RT: 8.040 min Scan# 2044
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

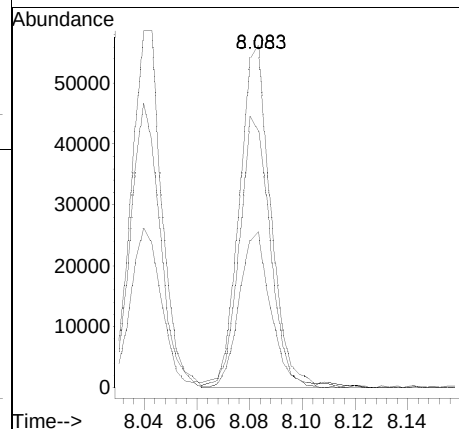
Tgt Ion	Ratio	Resp	Lower	Upper
232	100	47213		
230	77.1		64.2	96.4
234	45.6		38.1	57.1

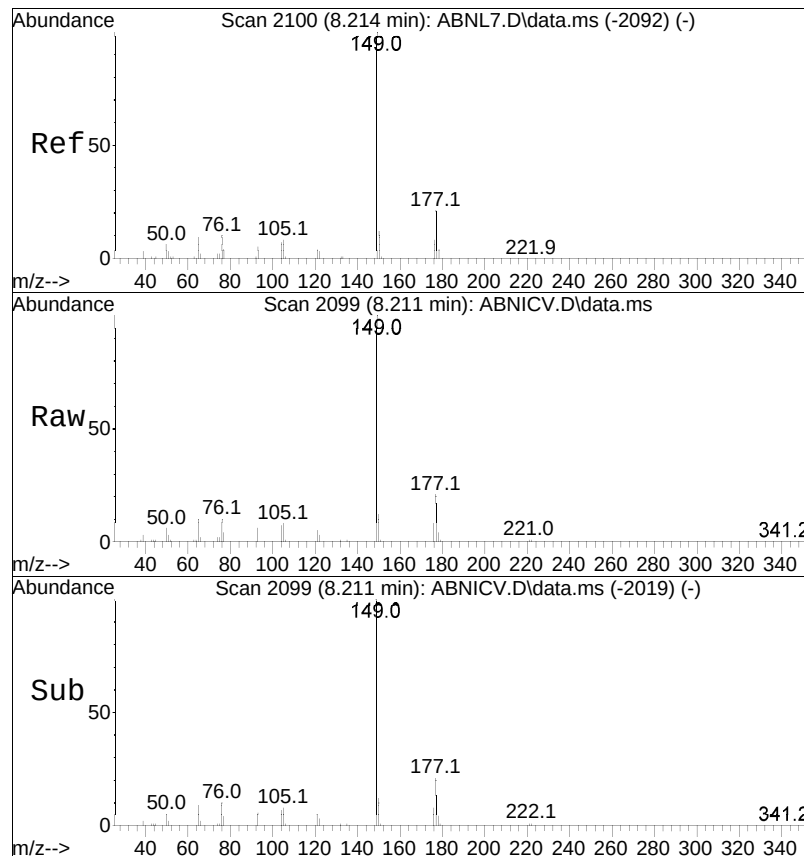




#73
 2,3,4,6-Tetrachlorophenol
 Concen: 5.10 ug/ml
 RT: 8.083 min Scan# 2058
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

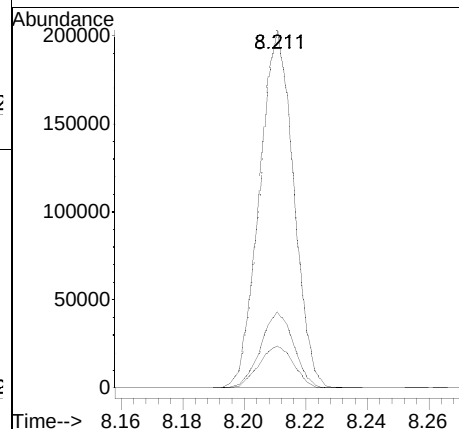
Tgt Ion	Ratio	Resp	Lower	Upper
232	100	47057		
230	76.9		61.8	92.8
234	45.2		36.2	54.2

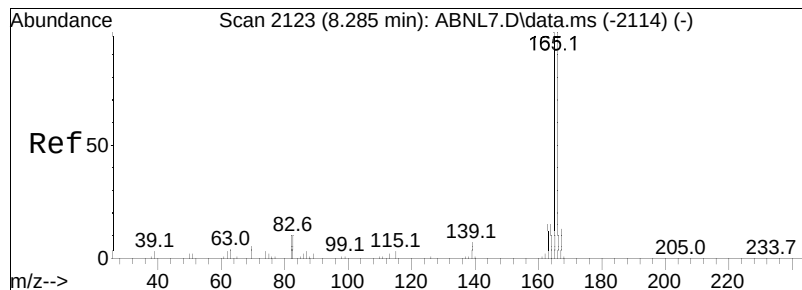




#74
 Diethyl phthalate
 Concen: 4.76 ug/ml
 RT: 8.211 min Scan# 2099
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

Tgt	Ion	Ratio	Resp	Lower	Upper
149	100		154977		
177	20.8			16.1	24.1
150	12.2			9.4	14.2





#75

Fluorene

Concen: 4.81 ug/ml

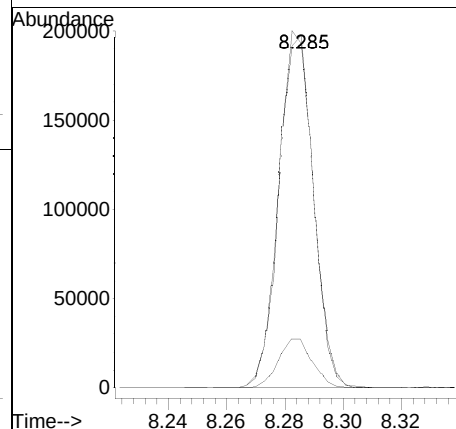
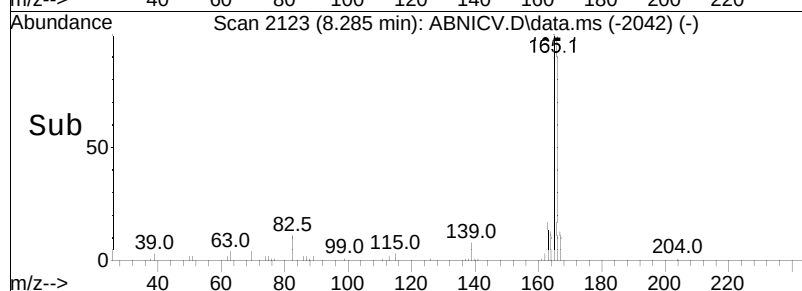
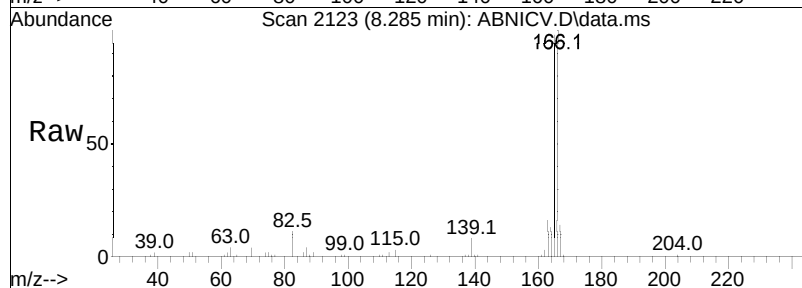
RT: 8.285 min Scan# 2123

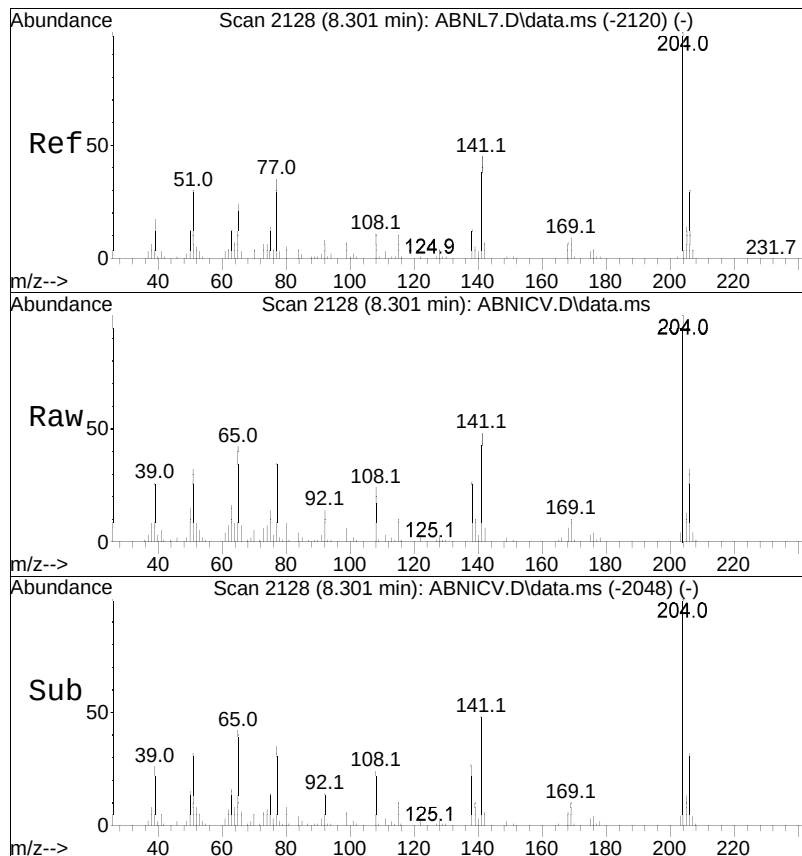
Delta R.T. 0.000 min

Lab File: ABNICV.D

Acq: 17 Apr 2025 12:13 am

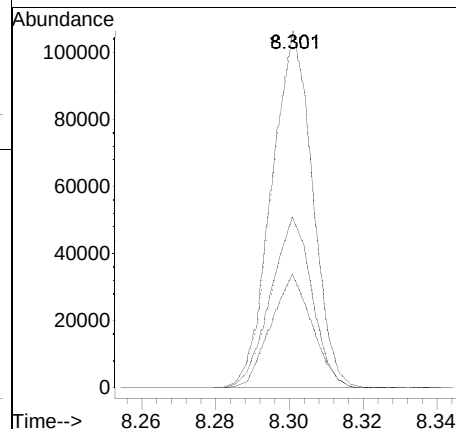
Tgt	Ion	Ratio	Lower	Upper
166	100			
165	100.8	76.2	114.2	
167	13.8	10.6	15.8	

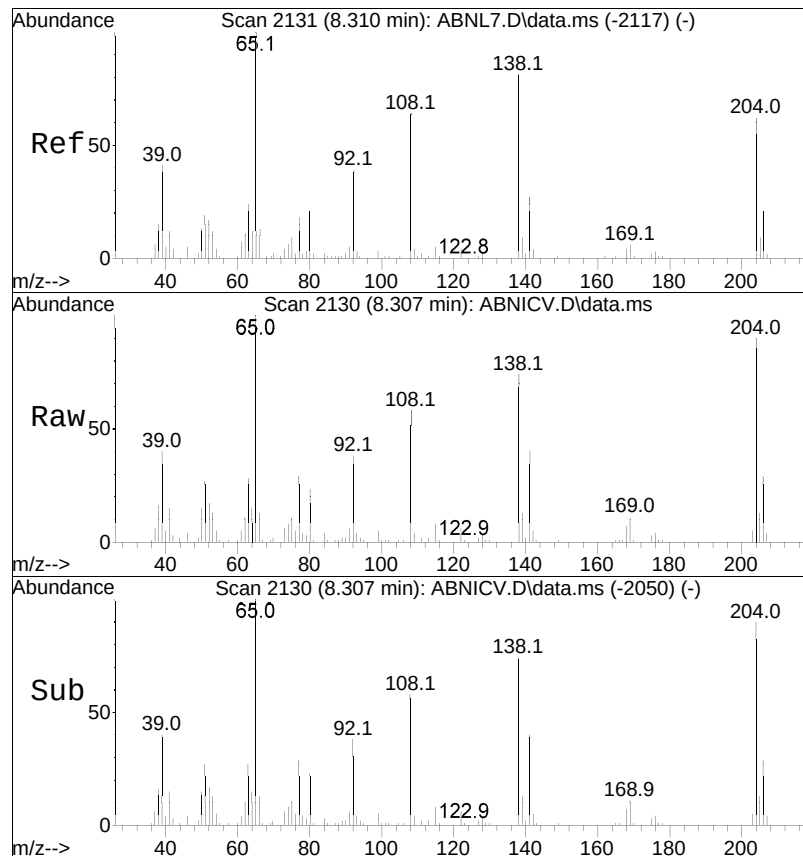




#76
 4-Chlorophenyl phenyl ether
 Concen: 4.63 ug/ml
 RT: 8.301 min Scan# 2128
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

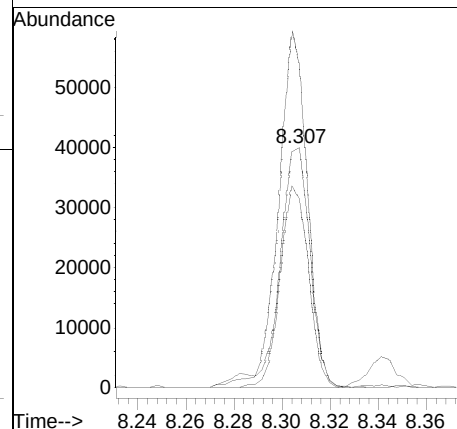
Tgt Ion:	204	Resp:	81400
Ion Ratio	Lower	Upper	
204	100		
206	32.2	25.8	38.6
141	48.2	53.6	80.4#

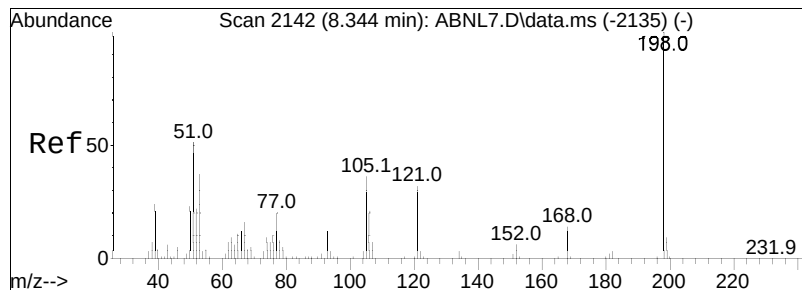




#77
 4-Nitroaniline
 Concen: 5.32 ug/ml
 RT: 8.307 min Scan# 2130
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

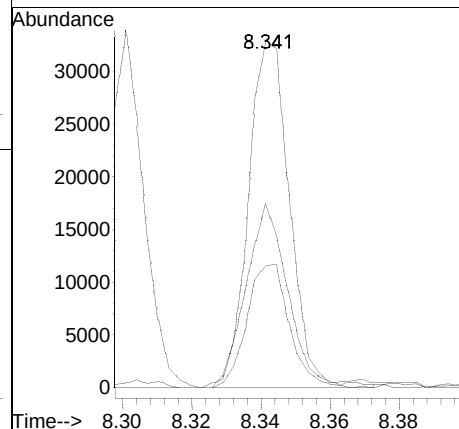
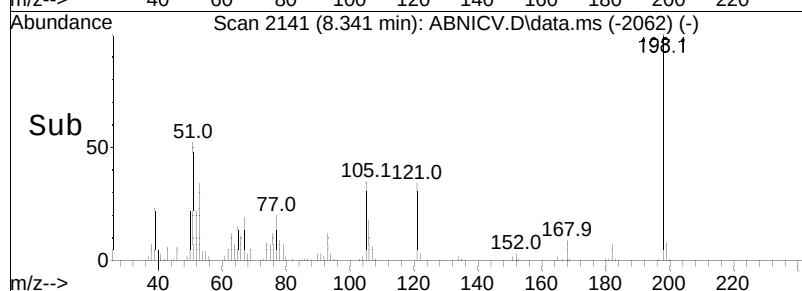
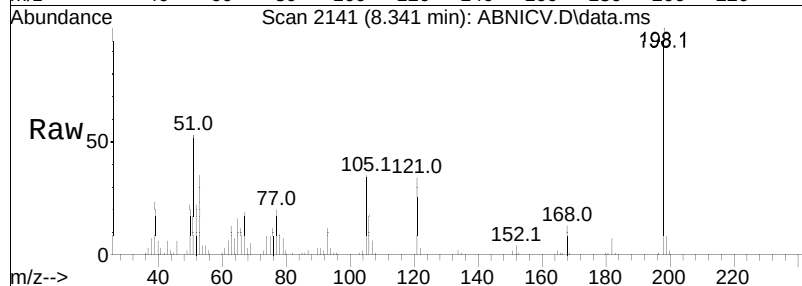
Tgt Ion	Ratio	Lower	Upper
138	100		
108	77.3	52.1	78.1
65	139.3	115.0	172.6

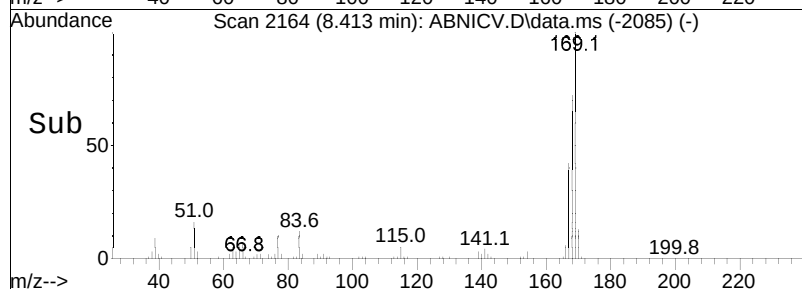
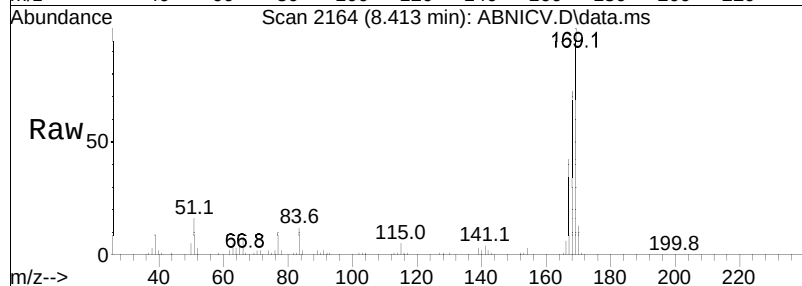
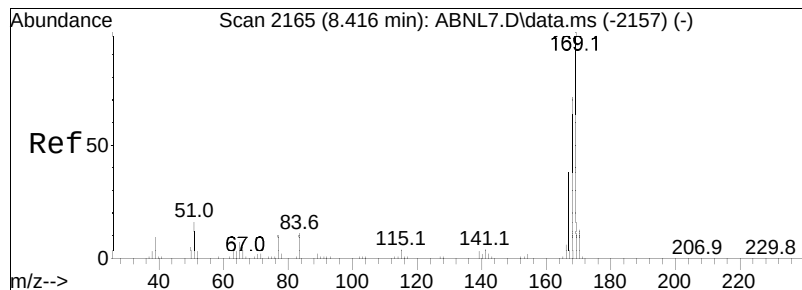




#78
 4,6-Dinitro-o-cresol
 Concen: 4.73 ug/ml
 RT: 8.341 min Scan# 2141
 Delta R.T. -0.004 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

Tgt Ion	Ratio	Lower	Upper
198	100		
51	53.3	76.0	114.0#
105	36.6	45.6	68.4#





#79

NDPA/DPA

Concen: 4.73 ug/ml

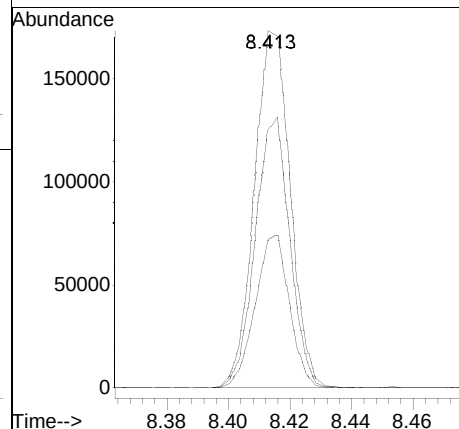
RT: 8.413 min Scan# 2164

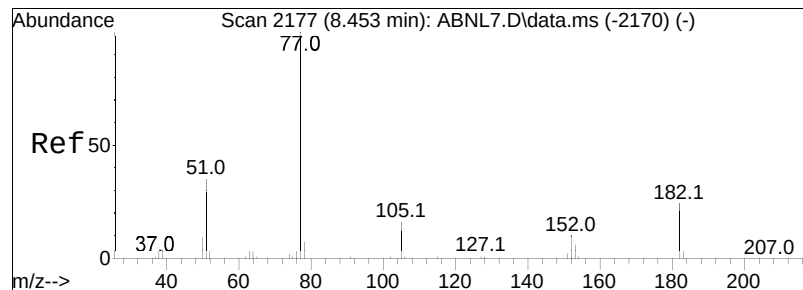
Delta R.T. -0.003 min

Lab File: ABNICV.D

Acq: 17 Apr 2025 12:13 am

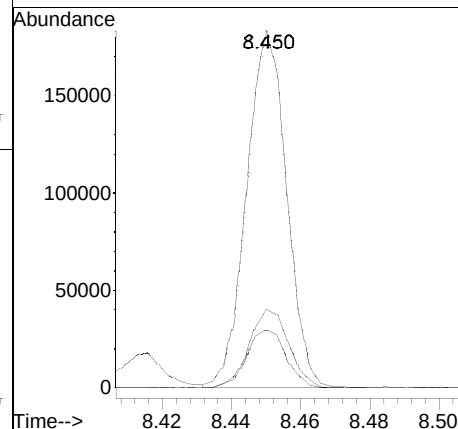
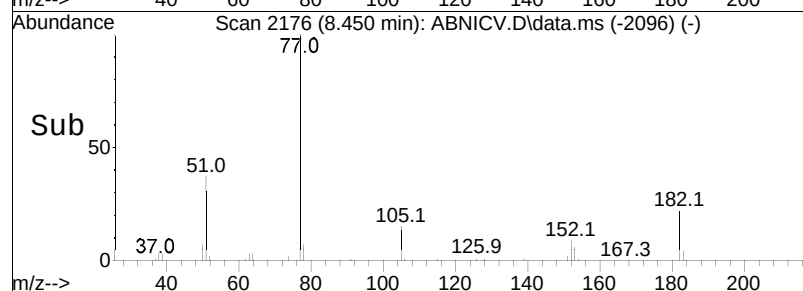
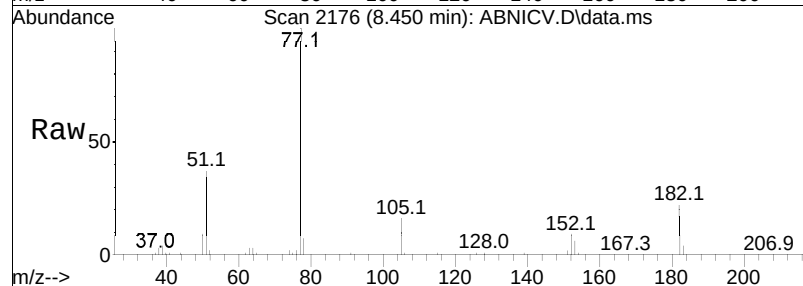
Tgt	Ion	Ratio	Lower	Upper
169	100			
168	72.8	54.0	81.0	
167	41.0	28.6	42.8	

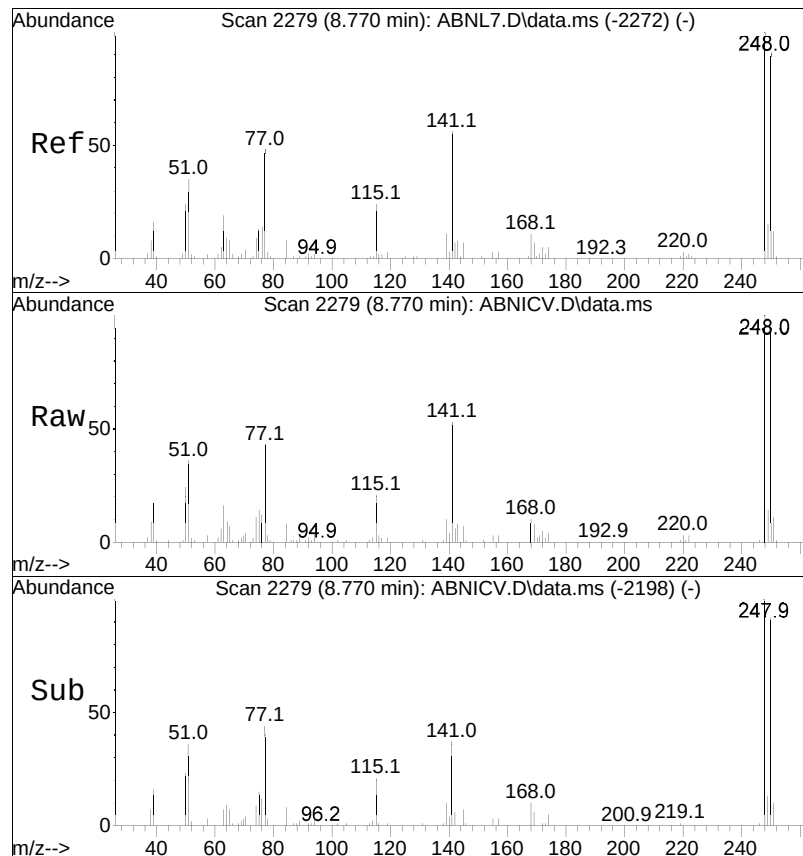




#80
 Azobenzene
 Concen: 4.82 ug/ml
 RT: 8.450 min Scan# 2176
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

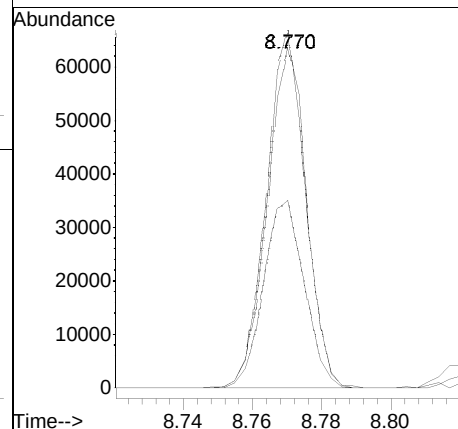
Tgt Ion:	77	Resp:	145361
Ion Ratio	Lower	Upper	
77	100		
182	22.0	17.4	26.2
105	16.2	15.4	23.2

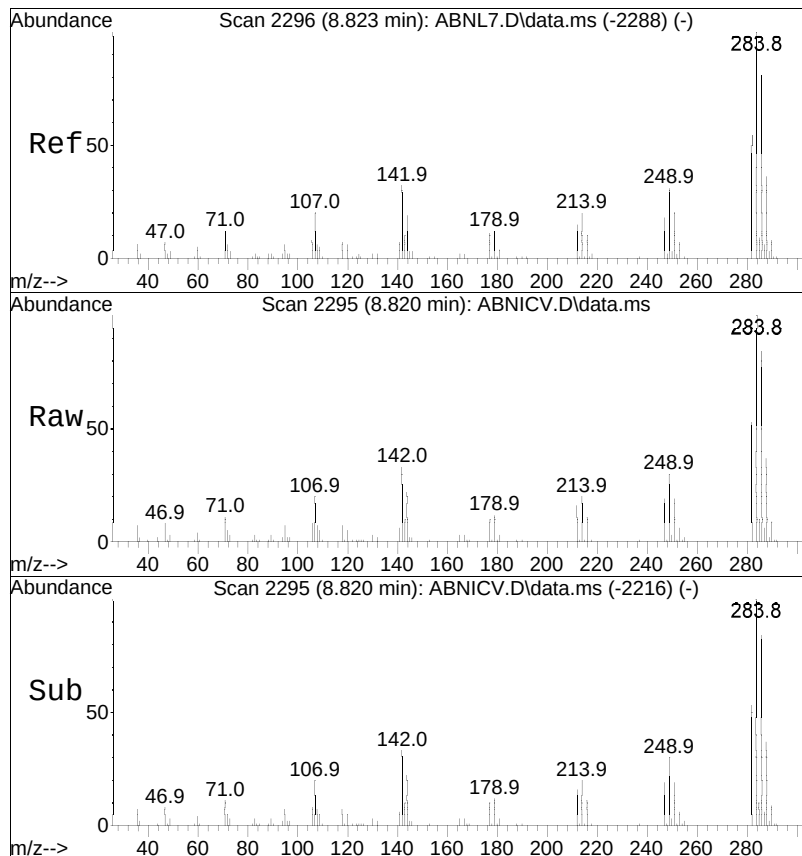




#82
 4-Bromophenyl phenyl ether
 Concen: 4.65 ug/ml
 RT: 8.770 min Scan# 2279
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

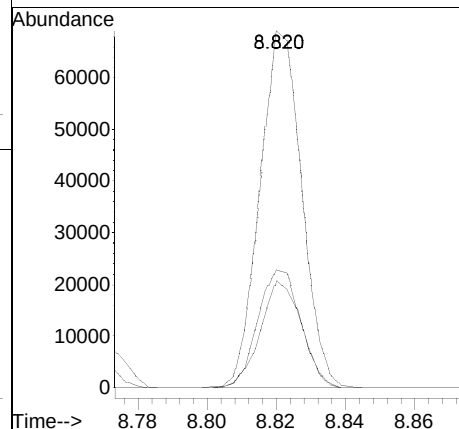
Tgt	Ion:248	Resp:	51646
Ion	Ratio	Lower	Upper
248	100		
141	55.1	76.6	114.8#
250	96.6	77.3	115.9

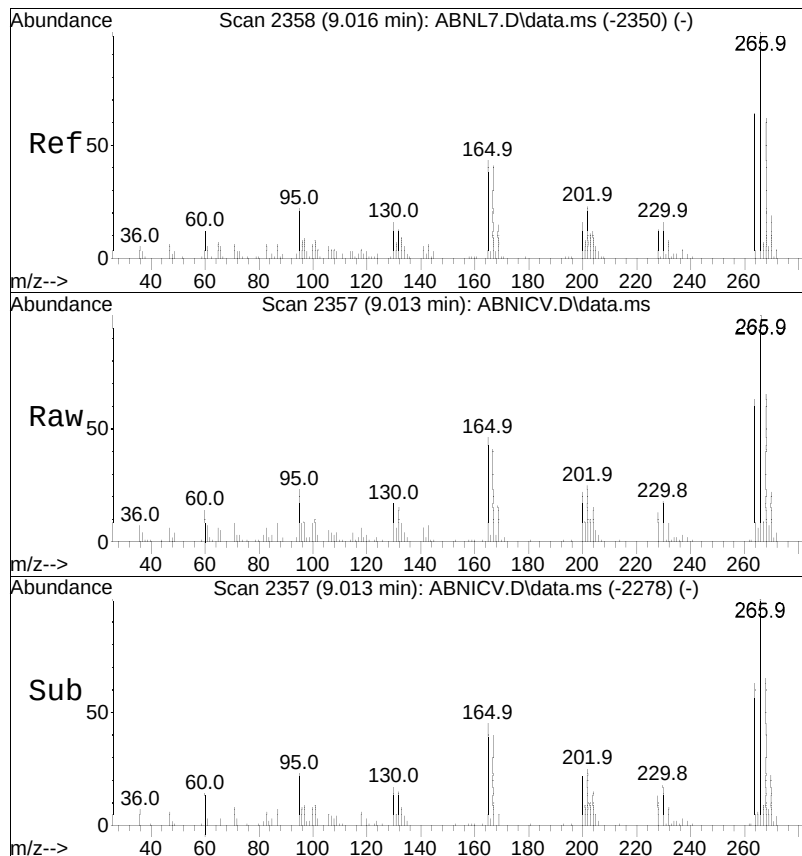




#83
 Hexachlorobenzene
 Concen: 4.47 ug/ml
 RT: 8.820 min Scan# 2295
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

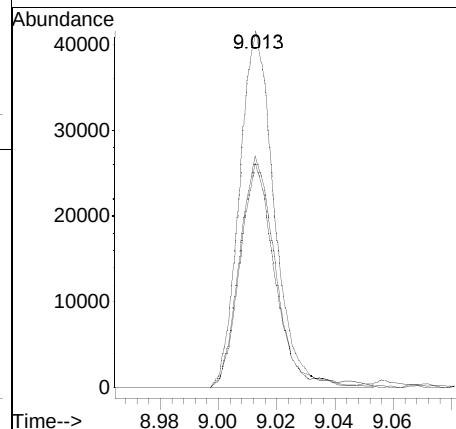
Tgt	Ion	Ratio	Resp	Lower	Upper
284	100		57924		
142	33.9	41.9		62.9#	
249	29.6	24.1		36.1	

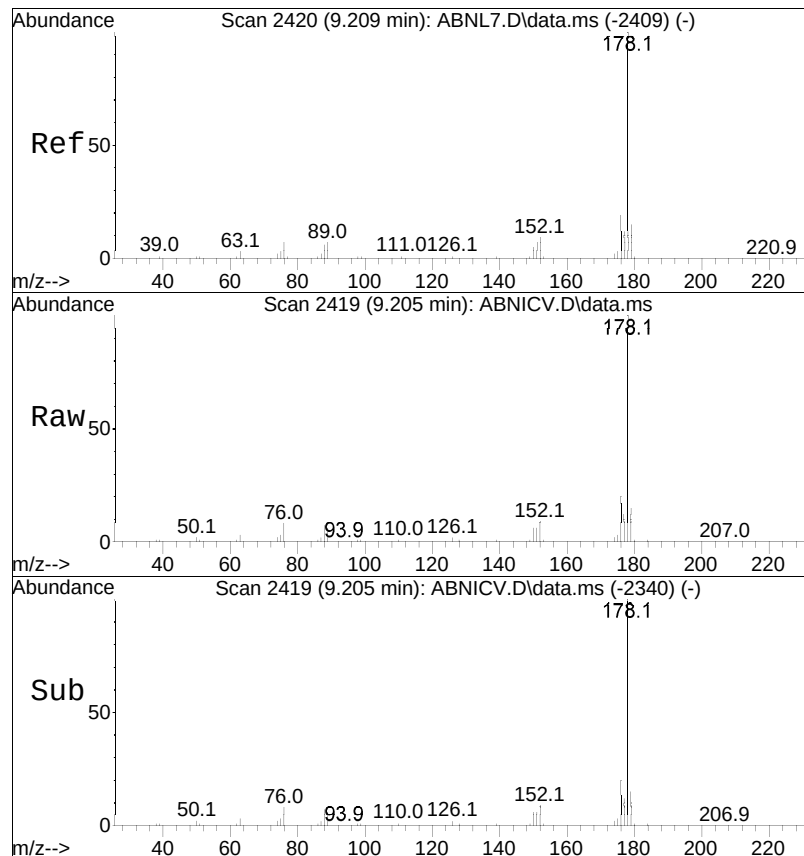




#84
 Pentachlorophenol
 Concen: 4.55 ug/ml
 RT: 9.013 min Scan# 2357
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

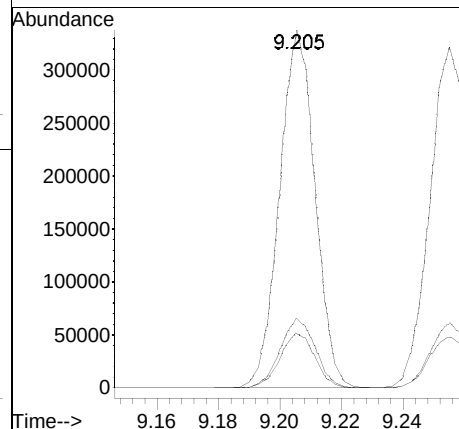
Tgt	Ion:266	Resp:	34941
Ion	Ratio	Lower	Upper
266	100		
264	62.5	49.7	74.5
268	66.5	50.5	75.7

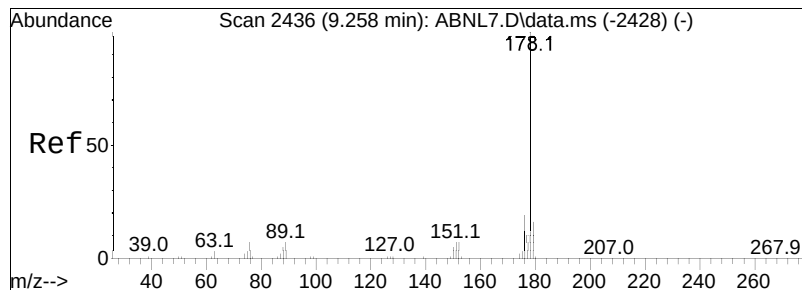




#91
 Phenanthrene
 Concen: 4.69 ug/ml
 RT: 9.205 min Scan# 2419
 Delta R.T. -0.004 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

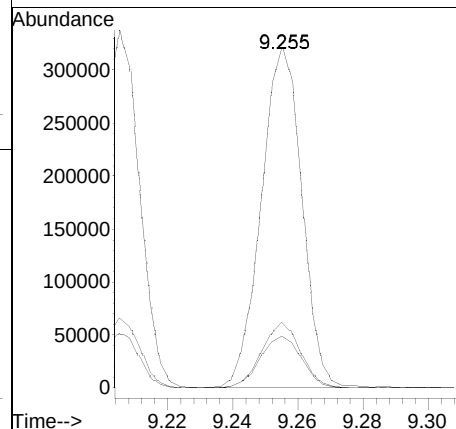
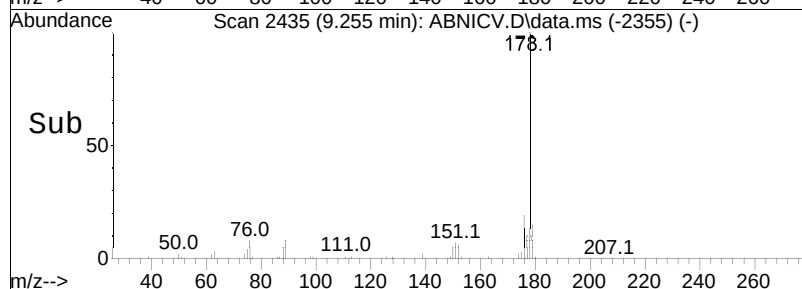
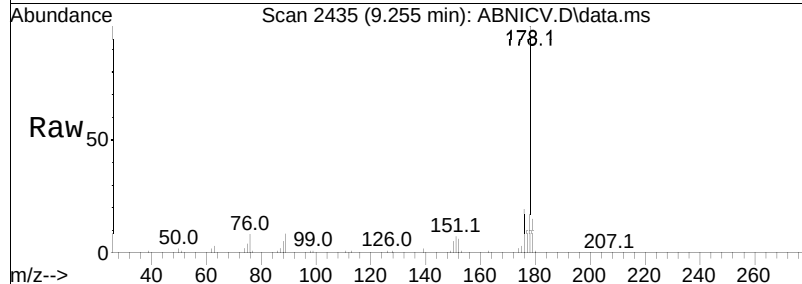
Tgt Ion	Ratio	Resp	Lower	Upper
178	100	269921		
179	15.1		12.2	18.2
176	19.2		15.4	23.2

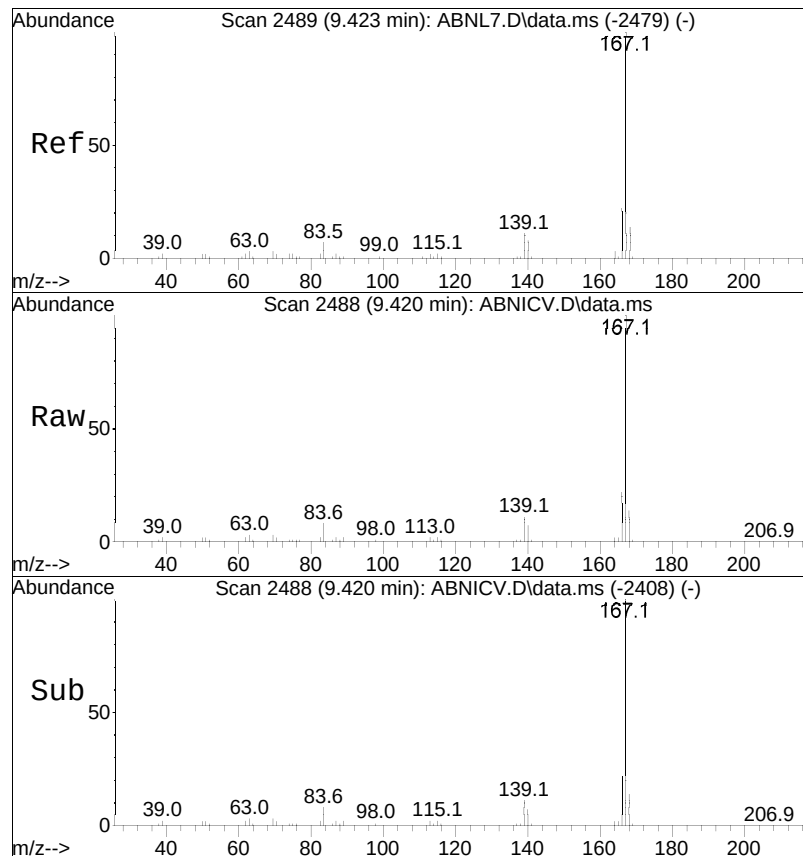




#92
 Anthracene
 Concen: 4.93 ug/ml
 RT: 9.255 min Scan# 2435
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

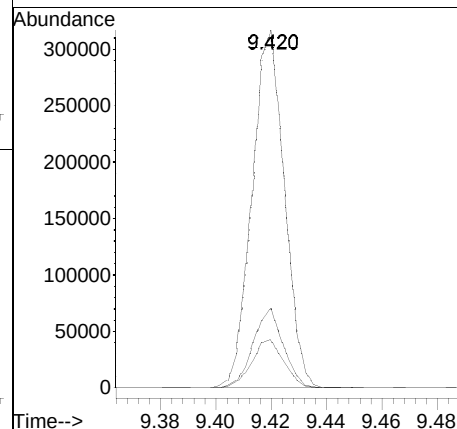
Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.0	18.0
176	18.5	14.6	22.0

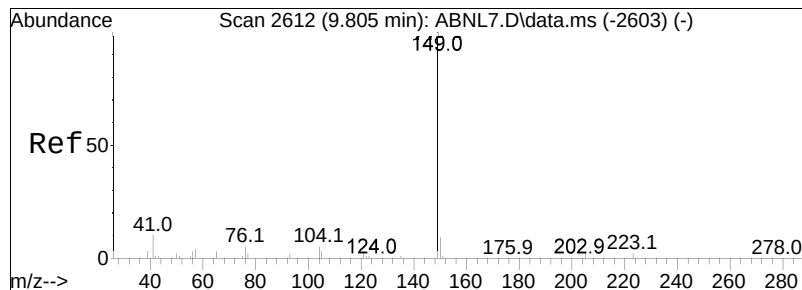




#93
 Carbazole
 Concen: 4.79 ug/ml
 RT: 9.420 min Scan# 2488
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

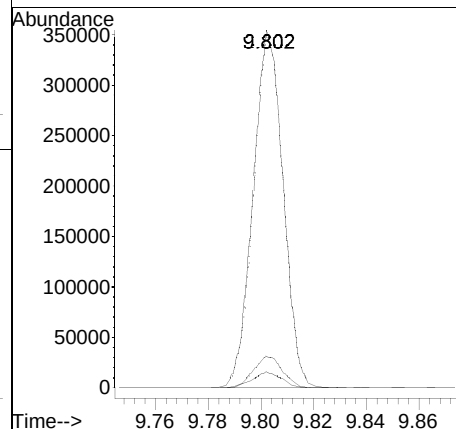
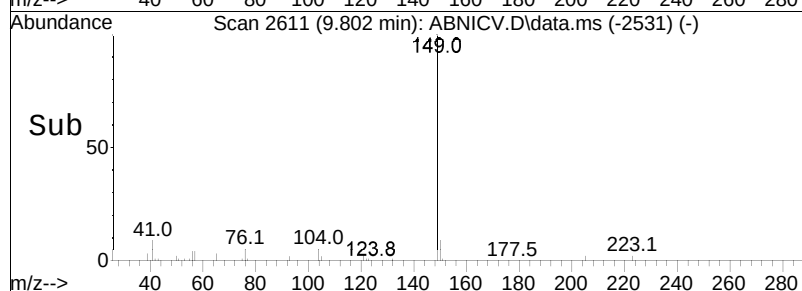
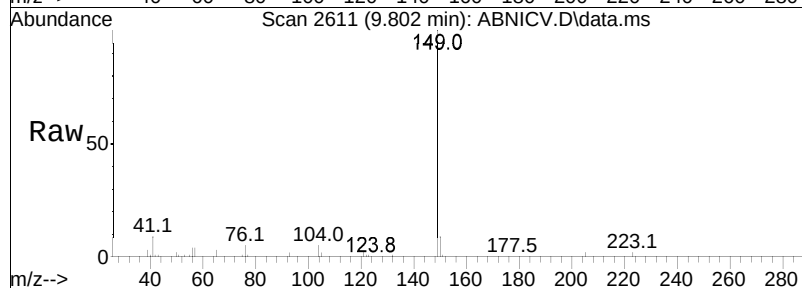
Tgt Ion	Ratio	Resp	Lower	Upper
167	100	254432		
168	13.5		10.6	15.8
166	21.0		17.4	26.0

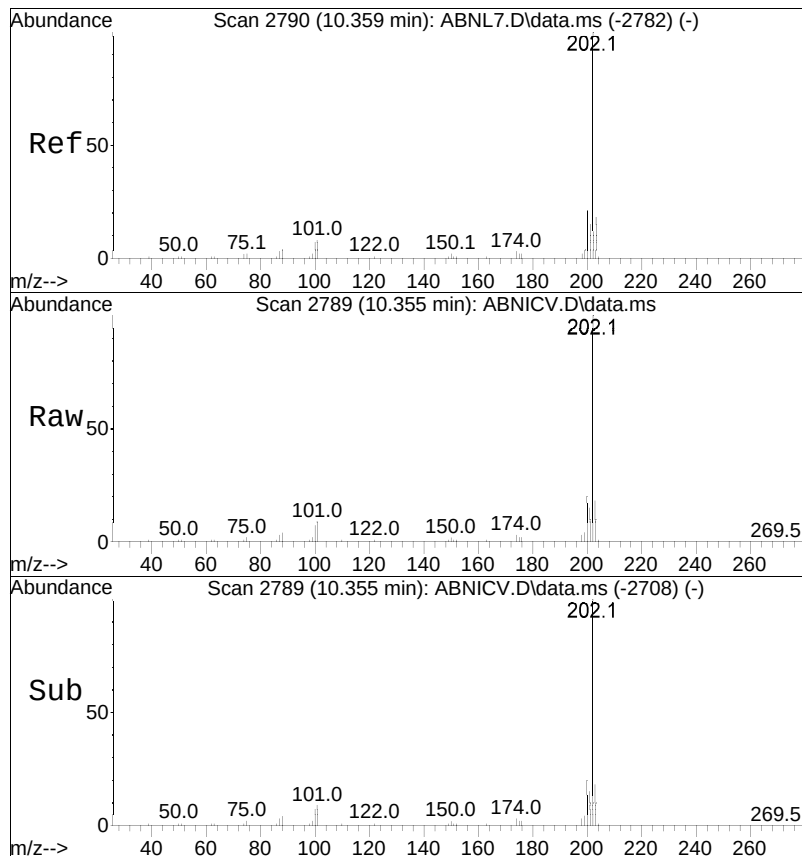




#94
 Di-n-butylphthalate
 Concen: 5.00 ug/ml
 RT: 9.802 min Scan# 2611
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

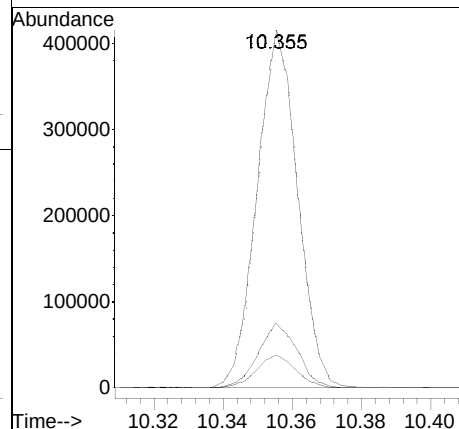
Tgt	Ion:149	Resp:	275425
Ion	Ratio	Lower	Upper
149	100		
150	8.7	7.0	10.6
104	4.4	4.5	6.7#

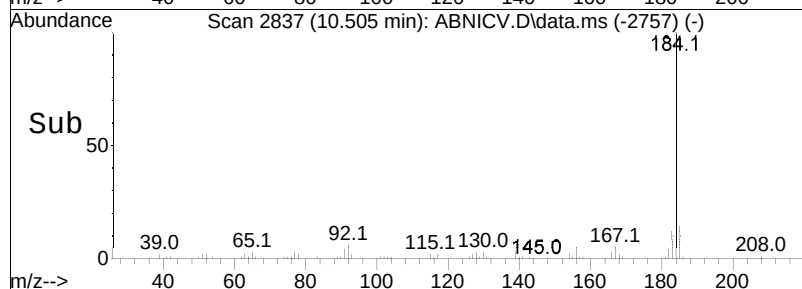
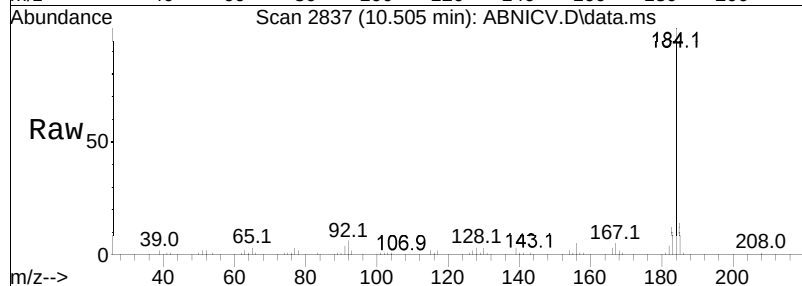
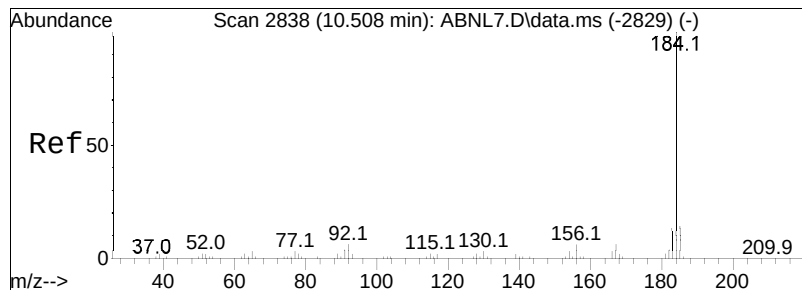




#95
 Fluoranthene
 Concen: 4.93 ug/ml
 RT: 10.355 min Scan# 2789
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

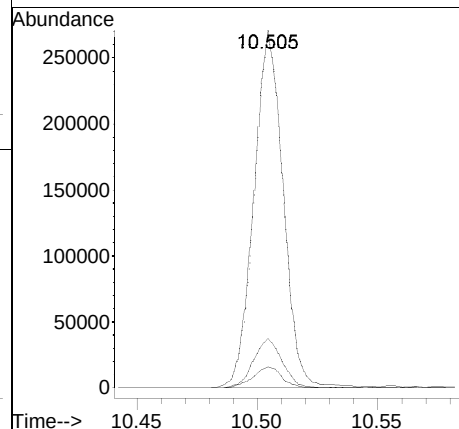
Tgt	Ion	202	Resp:	334285
Ion	Ratio	Lower	Upper	
202	100			
101	9.0	13.5	20.3#	
203	17.5	13.6	20.4	

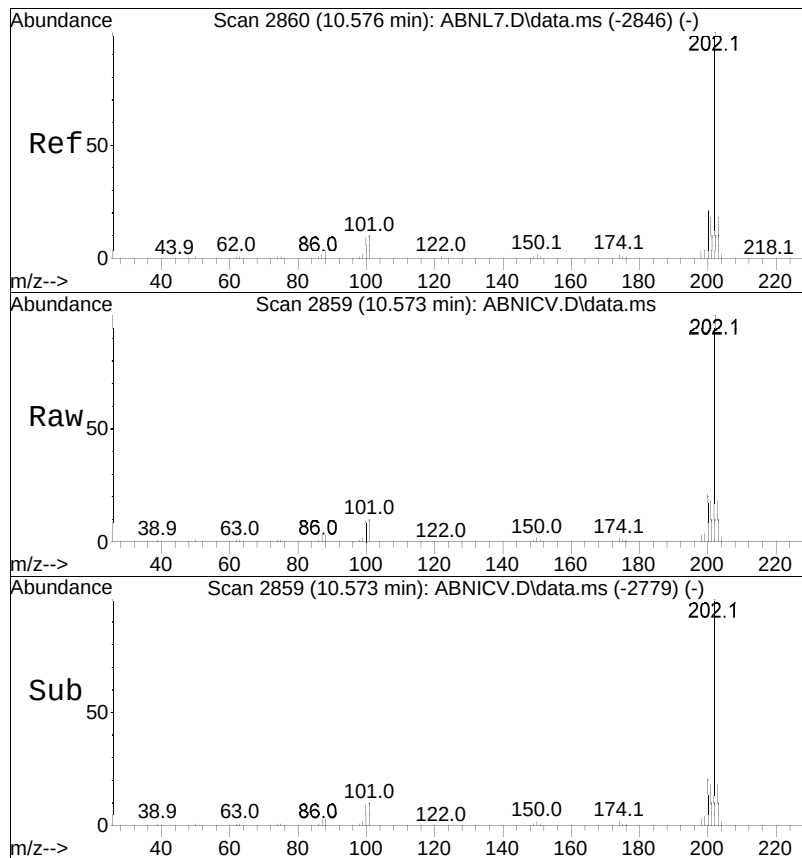




#96
Benzidine
Concen: 5.52 ug/ml
RT: 10.505 min Scan# 2837
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 17 Apr 2025 12:13 am

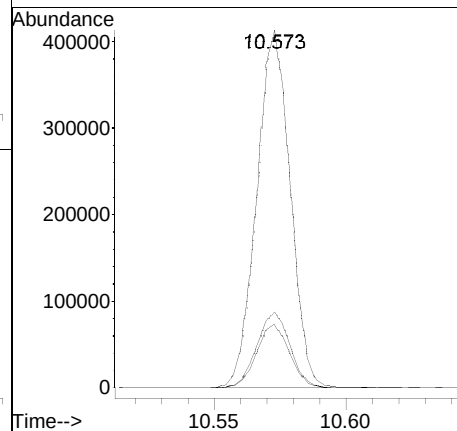
Tgt Ion	Ratio	Lower	Upper
184	100		
92	5.8	9.1	13.7#
185	13.6	11.1	16.7

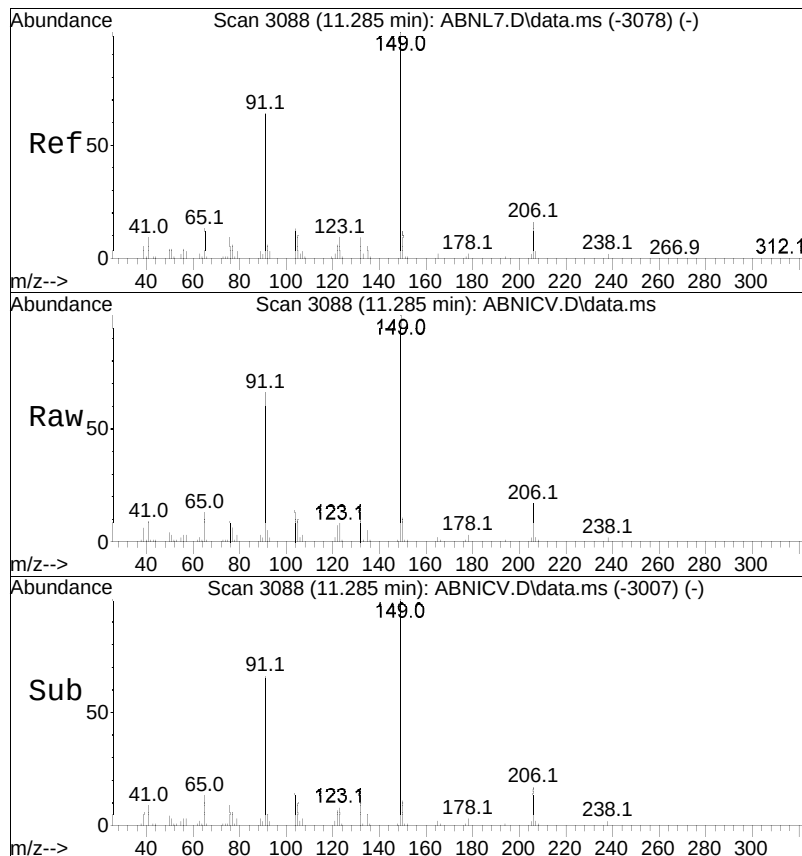




#97
 Pyrene
 Concen: 4.90 ug/ml
 RT: 10.573 min Scan# 2859
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

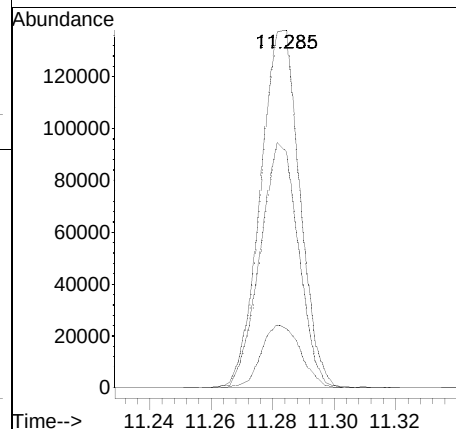
Tgt	Ion:202	Resp:	359431
Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.7	25.1
203	17.5	14.2	21.4

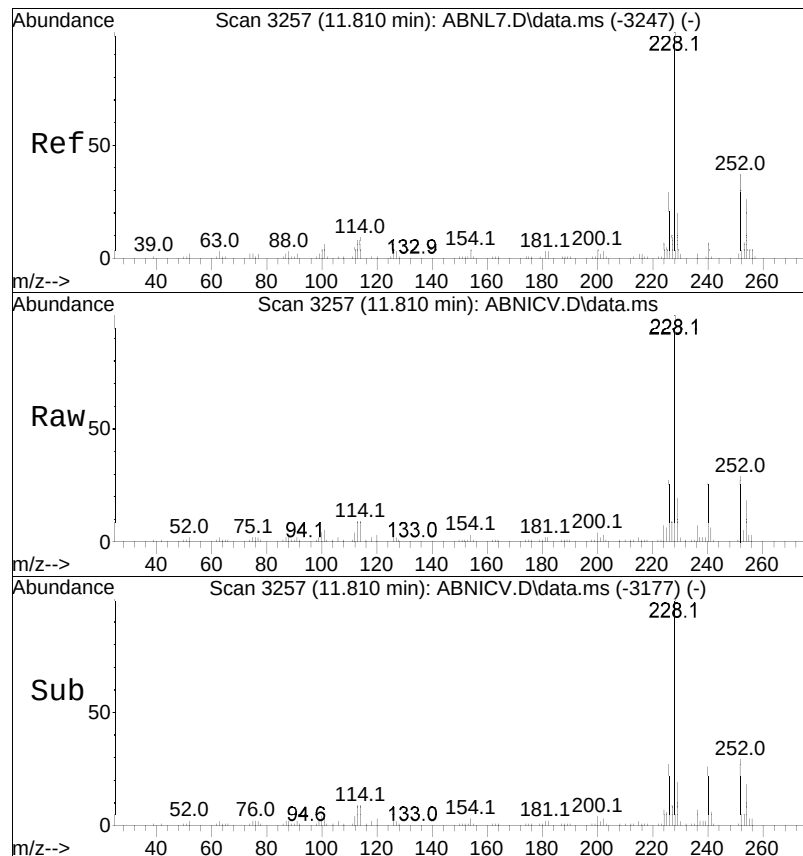




#99
 Butyl benzyl phthalate
 Concen: 5.09 ug/ml
 RT: 11.285 min Scan# 3088
 Delta R.T. 0.003 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

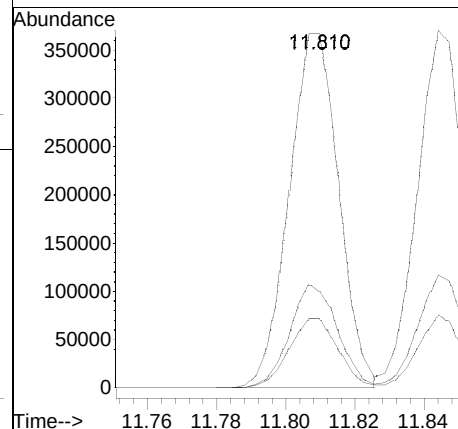
Tgt Ion:	149	Resp:	121849
Ion Ratio	Lower	Upper	
149	100		
91	67.4	63.3	94.9
206	17.6	13.9	20.9

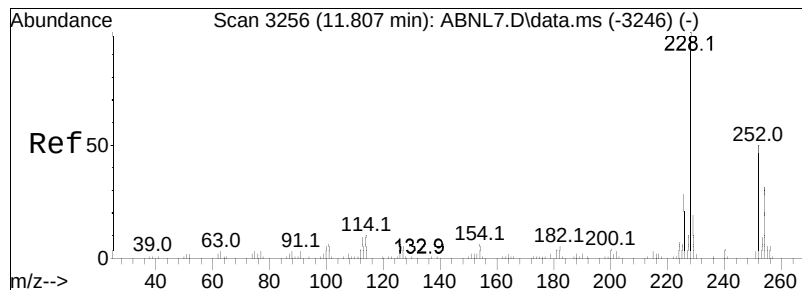




#107
 Benzo(a)anthracene
 Concen: 4.72 ug/ml
 RT: 11.810 min Scan# 3257
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

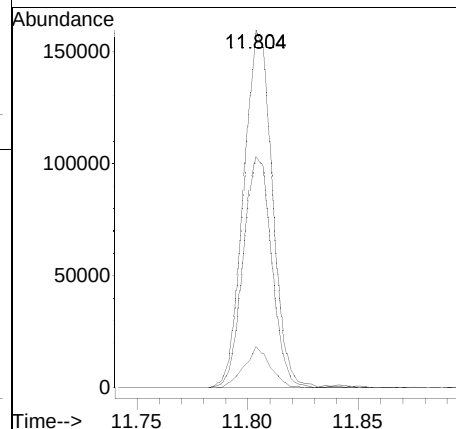
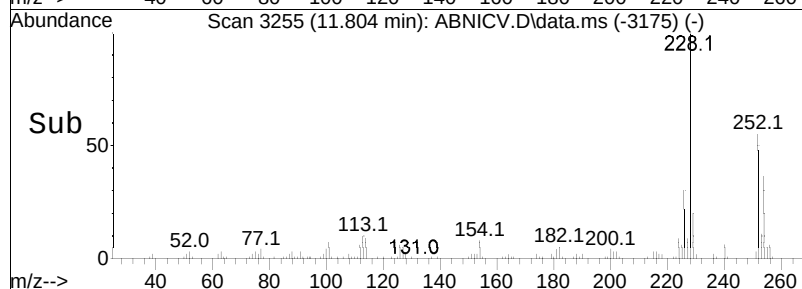
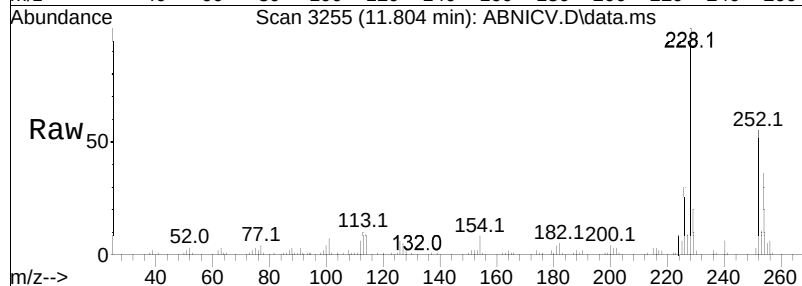
Tgt Ion:	228	Resp:	364778
Ion Ratio	Lower	Upper	
228	100		
226	28.2	22.2	33.4
229	19.6	15.6	23.4

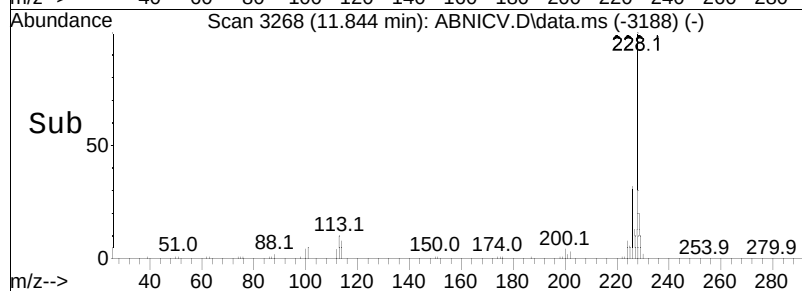
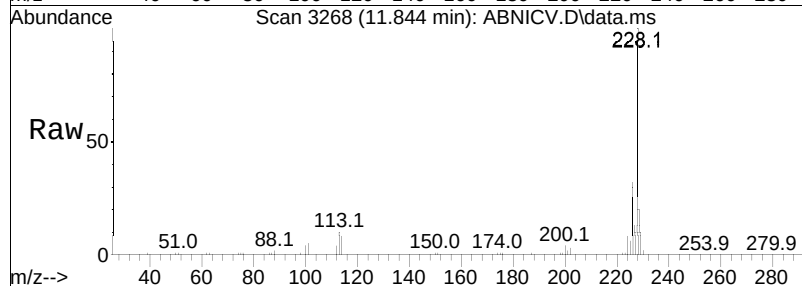
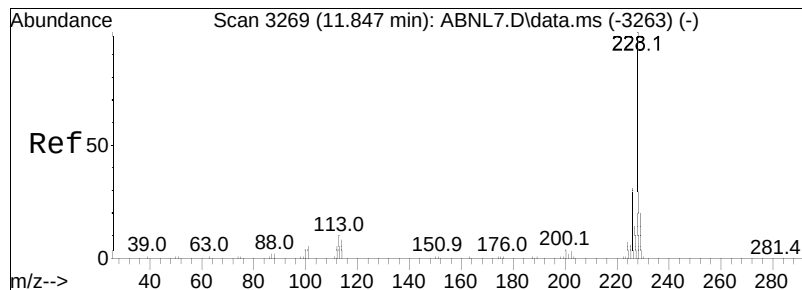




#108
 3,3'-Dichlorobenzidine
 Concen: 5.25 ug/ml
 RT: 11.804 min Scan# 3255
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

Tgt Ion	Ratio	Lower	Upper
252	100		
126	10.5	14.5	21.7#
254	64.3	51.2	76.8





#109

Chrysene

Concen: 4.58 ug/ml

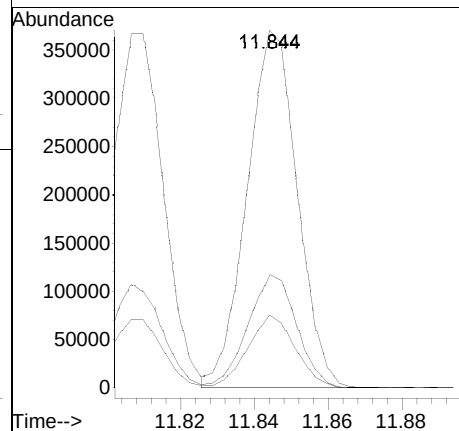
RT: 11.844 min Scan# 3268

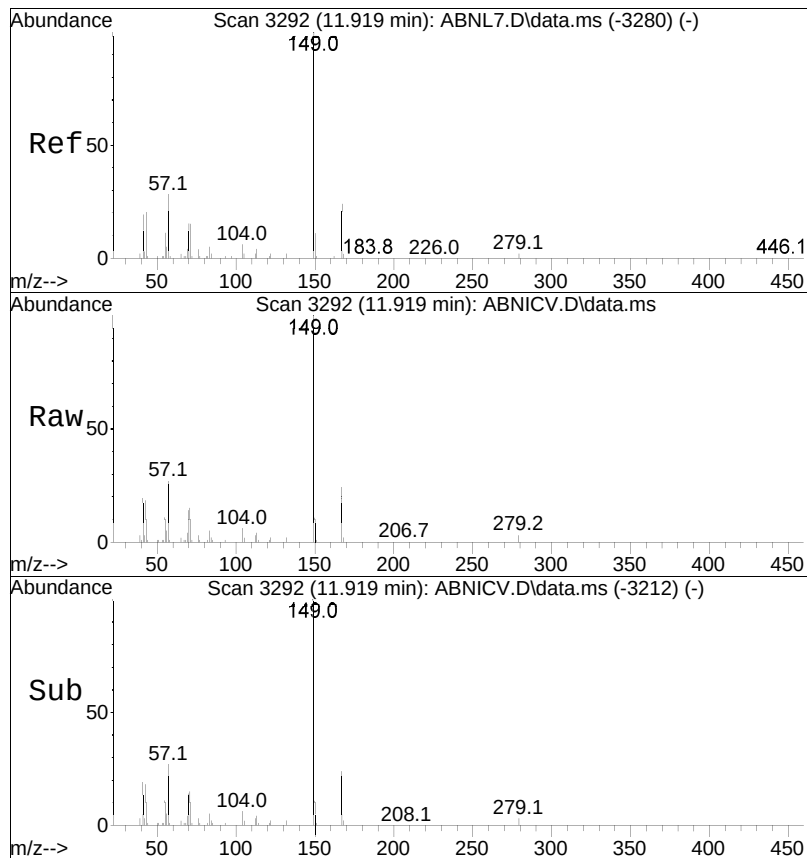
Delta R.T. -0.003 min

Lab File: ABNICV.D

Acq: 17 Apr 2025 12:13 am

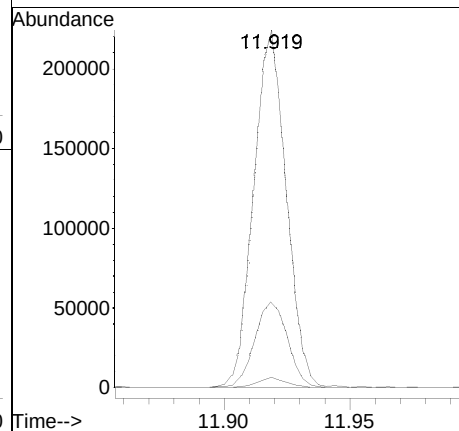
Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.1	24.0	36.0
229	19.3	15.8	23.8

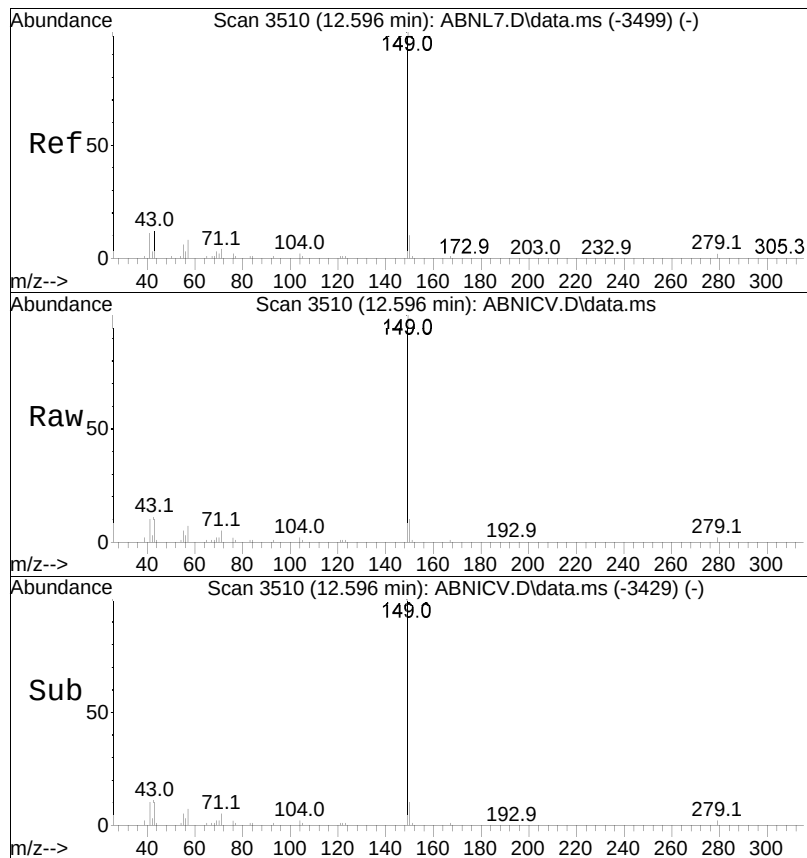




#110
 Bis(2-ethylhexyl)phthalate
 Concen: 5.12 ug/ml
 RT: 11.919 min Scan# 3292
 Delta R.T. -0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

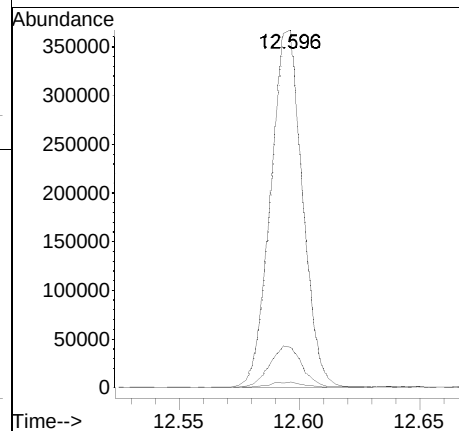
Tgt	Ion	Ratio	Resp	Lower	Upper
149	100		199454		
167	24.3	22.1		33.1	
279	2.3	3.0		4.4#	

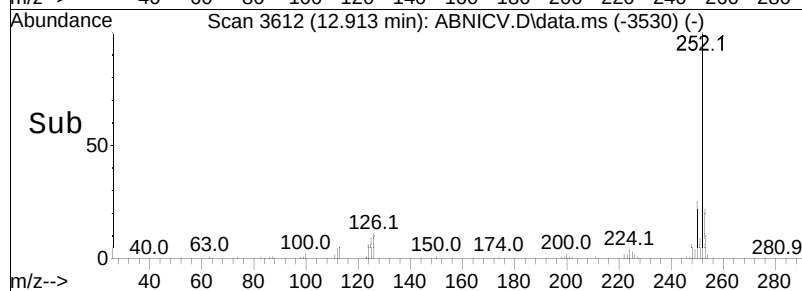
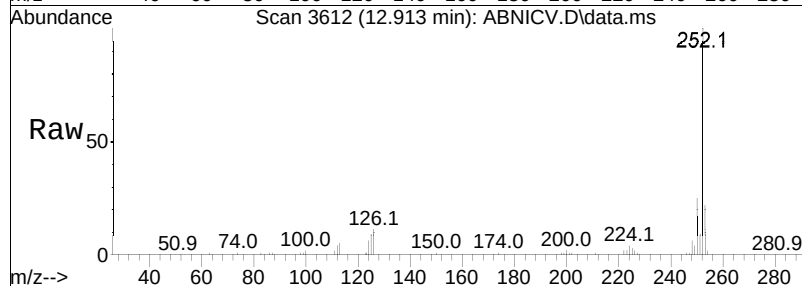
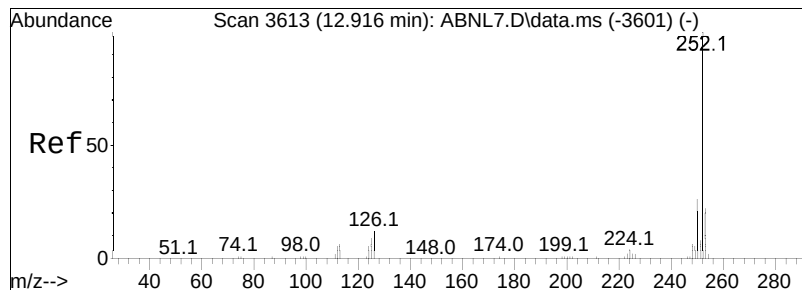




#111
 Di-n-octylphthalate
 Concen: 5.27 ug/ml
 RT: 12.596 min Scan# 3510
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

Tgt Ion	Ratio	Resp	Lower	Upper
149	100	333442		
43	12.0		18.8	28.2#
167	1.4		1.3	1.9





#112

Benzo(b)fluoranthene

Concen: 4.80 ug/ml

RT: 12.913 min Scan# 3612

Delta R.T. 0.003 min

Lab File: ABNICV.D

Acq: 17 Apr 2025 12:13 am

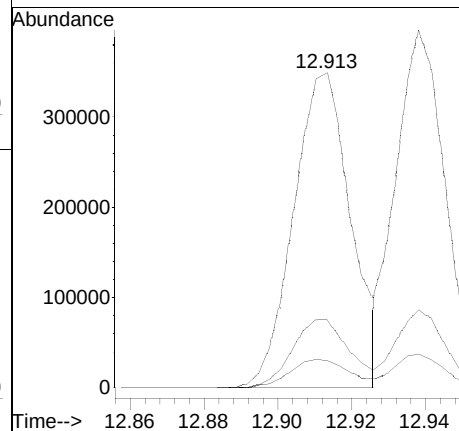
Tgt Ion: 252 Resp: 376863

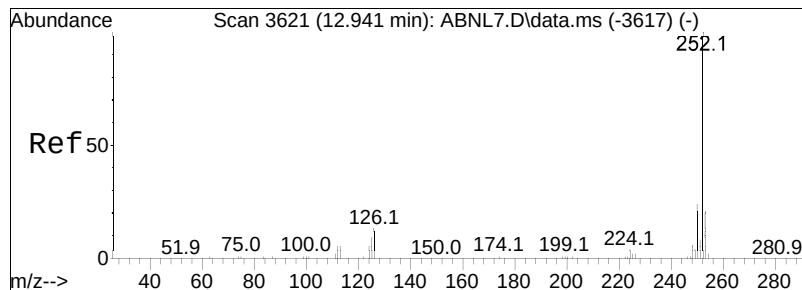
Ion Ratio Lower Upper

252 100

125 9.6 13.3 19.9#

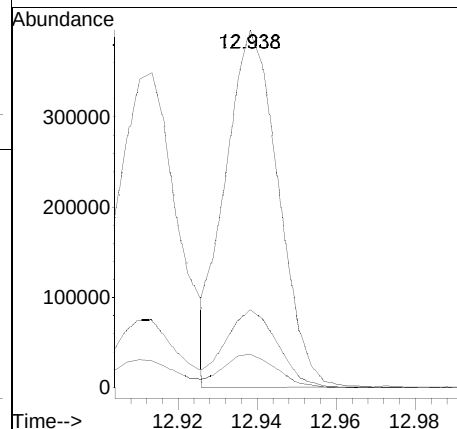
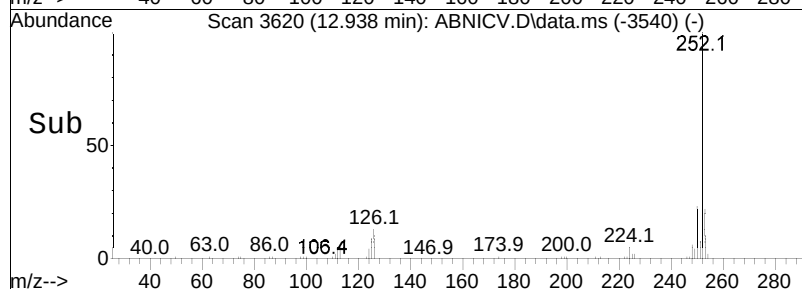
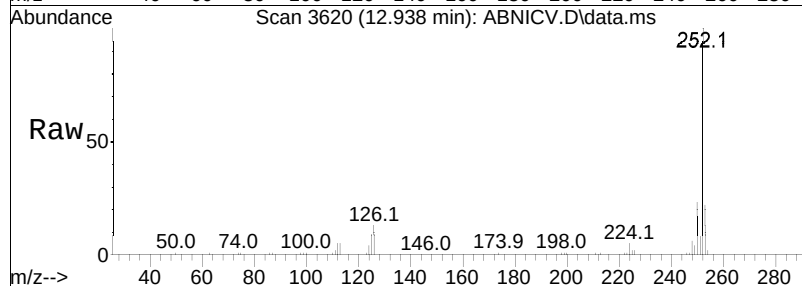
253 21.8 17.1 25.7

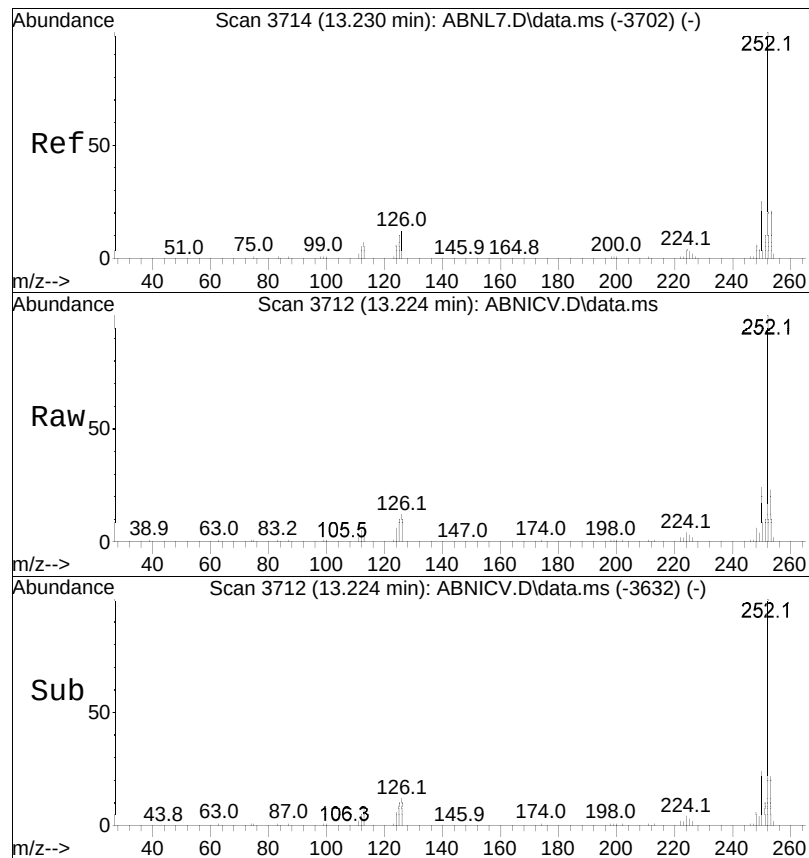




#113
 Benzo(k)fluoranthene
 Concen: 4.61 ug/ml
 RT: 12.938 min Scan# 3620
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

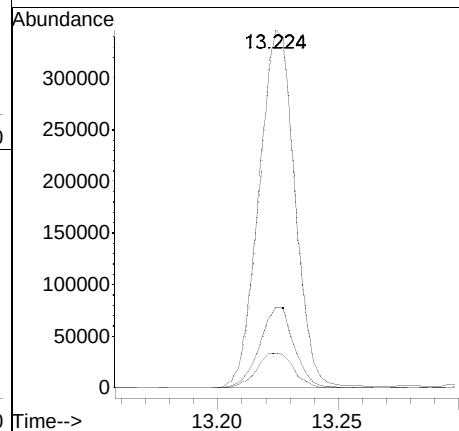
Tgt	Ion:252	Resp:	367509
Ion	Ratio	Lower	Upper
252	100		
125	9.5	13.0	19.6#
253	21.5	16.8	25.2

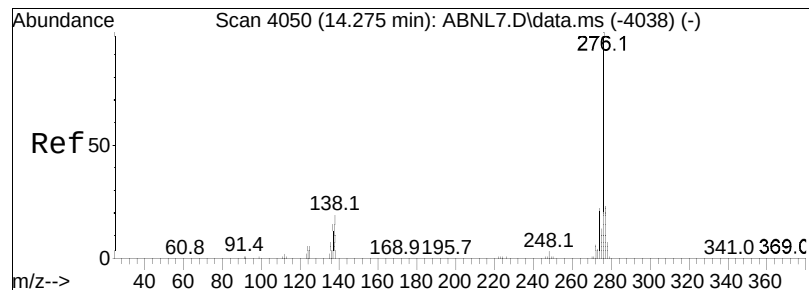




#114
 Benzo(a)pyrene
 Concen: 4.76 ug/ml
 RT: 13.224 min Scan# 3712
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

Tgt	Ion	Ratio	Resp	Lower	Upper
252	100		356112		
125	10.1	14.2		21.2#	
253	21.7	16.9		25.3	





#116

Indeno(1,2,3-cd)pyrene

Concen: 4.65 ug/mL M6

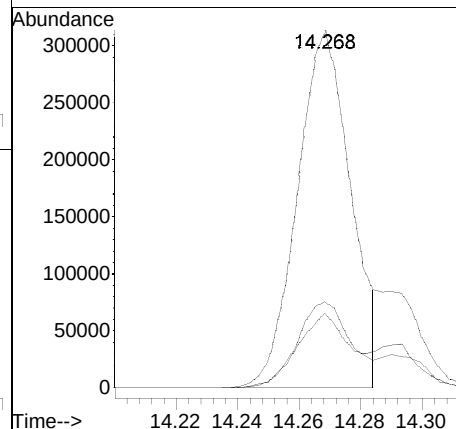
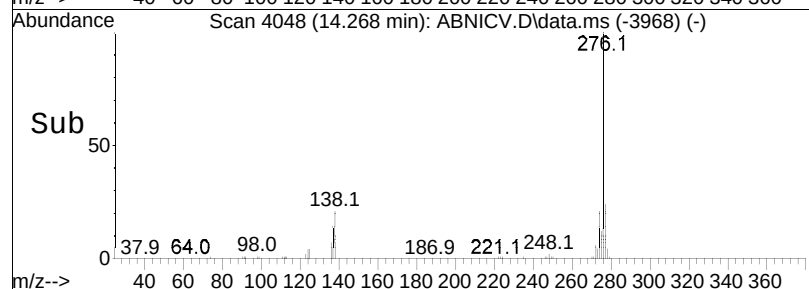
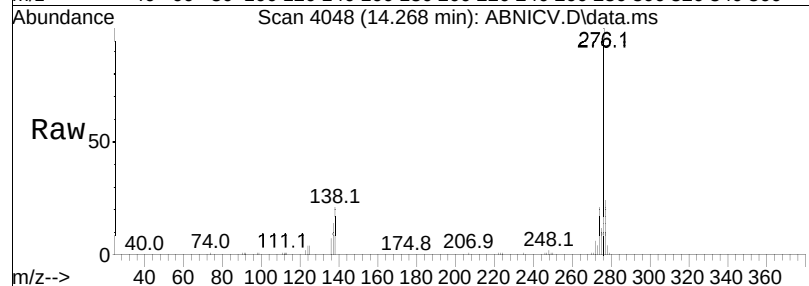
RT: 14.268 min Scan# 4048

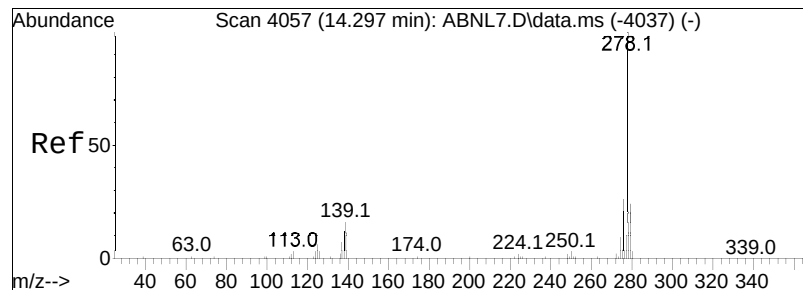
Delta R.T. -0.001 min

Lab File: ABNICV.D

Acq: 17 Apr 2025 12:13 am

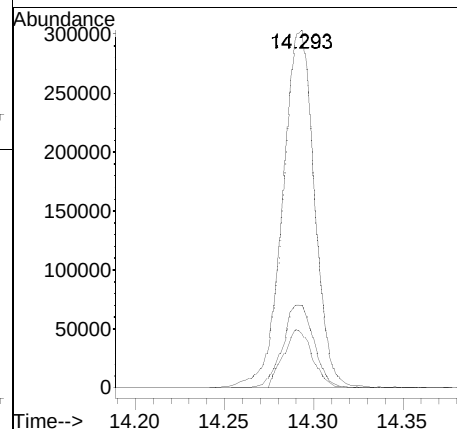
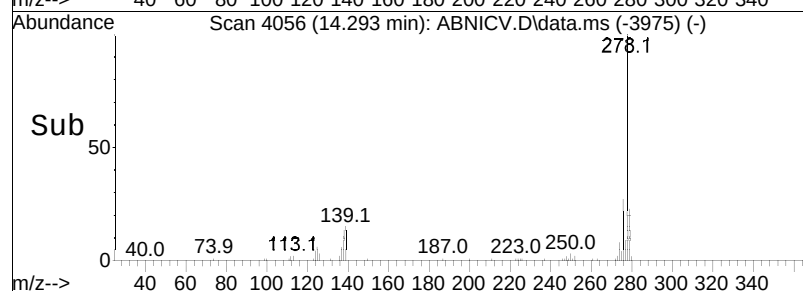
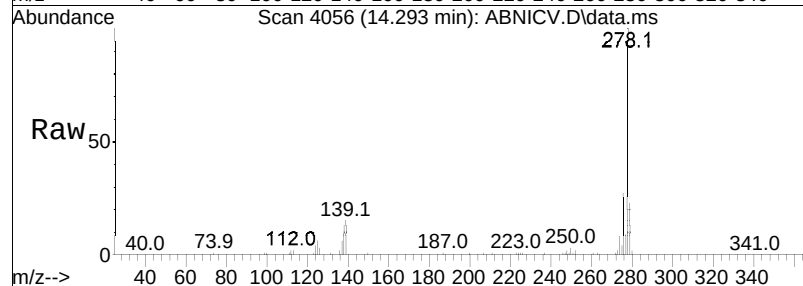
Tgt	Ion:276	Resp:	378011
Ion	Ratio	Lower	Upper
276	100		
138	20.2	25.1	37.7#
277	24.5	18.6	28.0

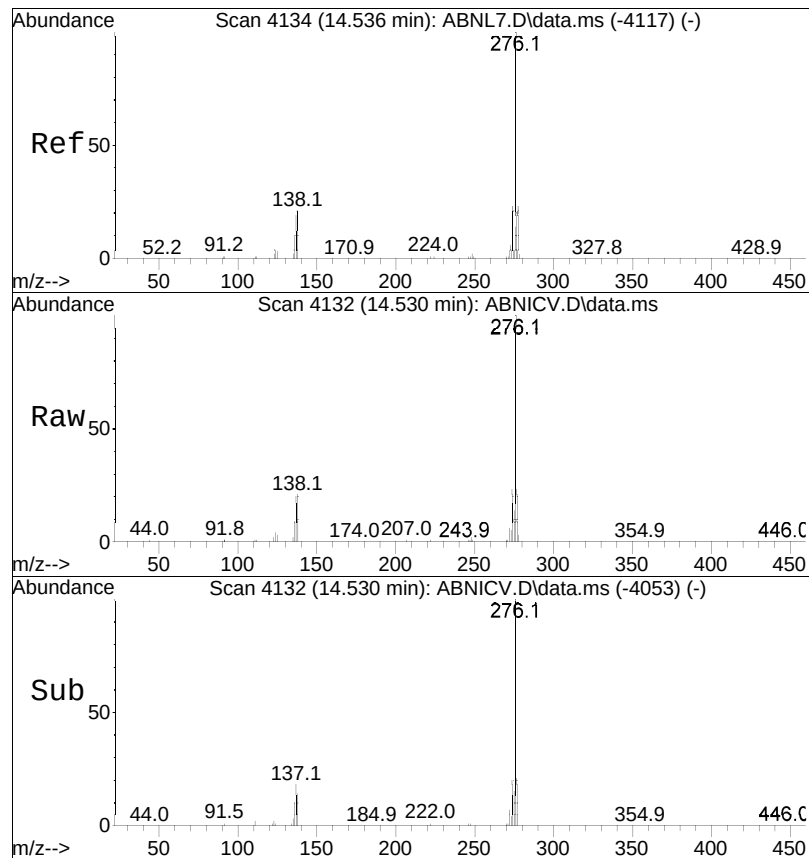




#117
 Dibenzo(a,h)anthracene
 Concen: 4.76 ug/ml
 RT: 14.293 min Scan# 4056
 Delta R.T. 0.000 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

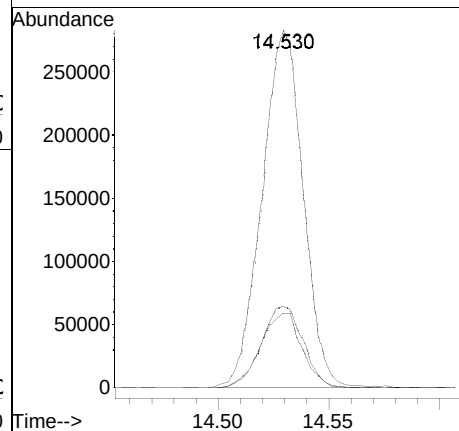
Tgt Ion	Ratio	Lower	Upper
278	100		
139	15.0	20.8	31.2#
279	23.0	18.3	27.5





#118
 Benzo(ghi)perylene
 Concen: 4.63 ug/ml
 RT: 14.530 min Scan# 4132
 Delta R.T. -0.003 min
 Lab File: ABNICV.D
 Acq: 17 Apr 2025 12:13 am

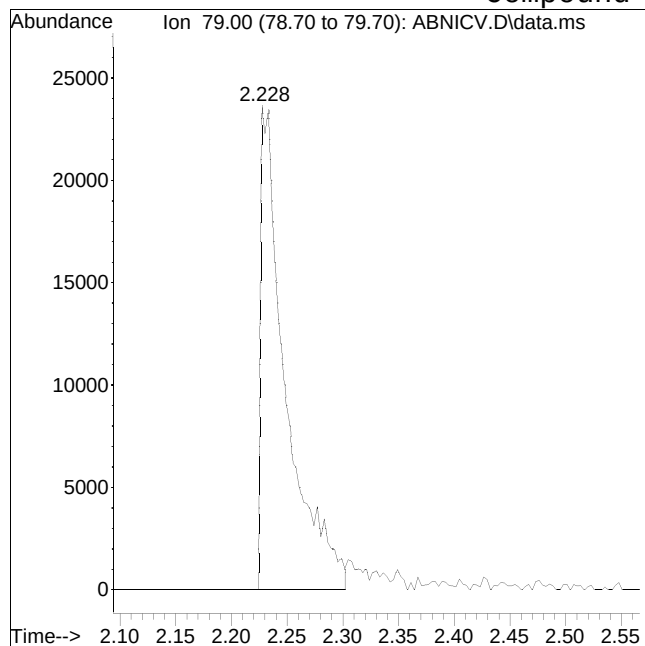
Tgt	Ion	Ratio	Resp	Lower	Upper
276	100		362964		
138	21.2			29.2	43.8#
277	23.3			18.8	28.2



Manual Integration Report

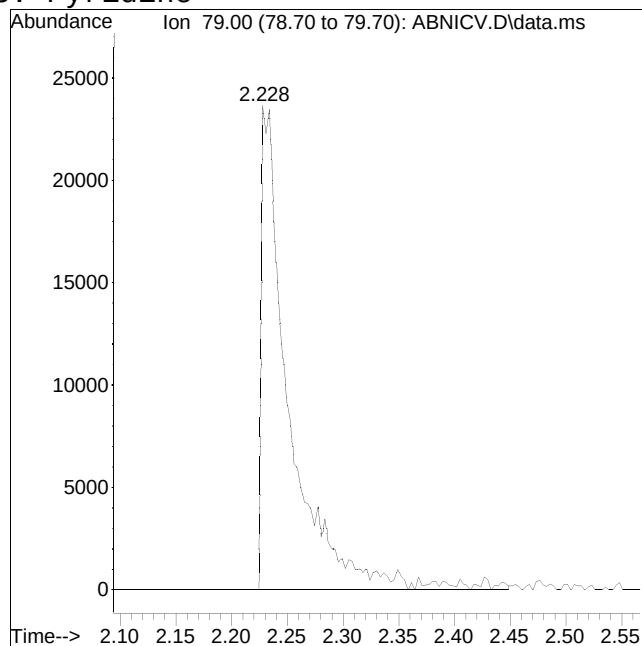
Data Path : I:\8270\Dakota\250416RVTICQ1
Data File : ABNICV.D
Date Inj'd : 4/17/2025 12:13 am
Sample : CQICV1,32,,ABNICV Lot# 115009
Method : FS250416RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Acq Date : 4/17/2025 3:21 pm

Compound #3: Pyridine



Original Peak Response = 36962

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

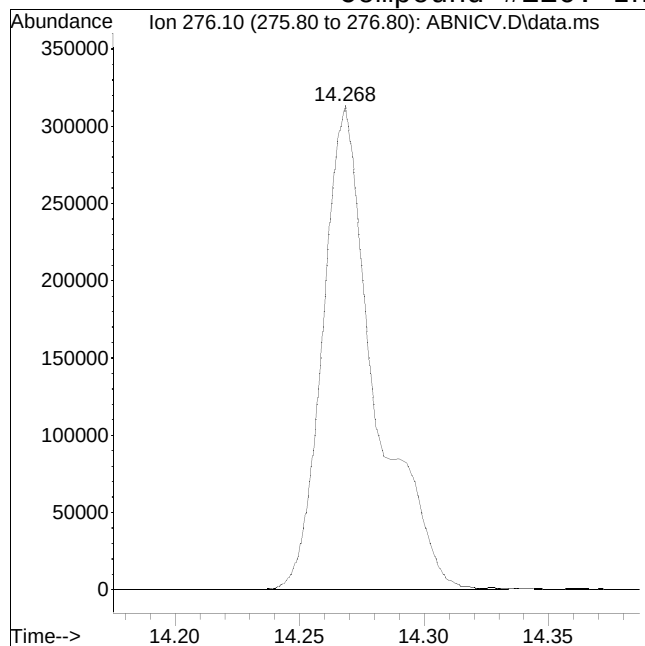


Manual Peak Response = 41067 M1

Manual Integration Report

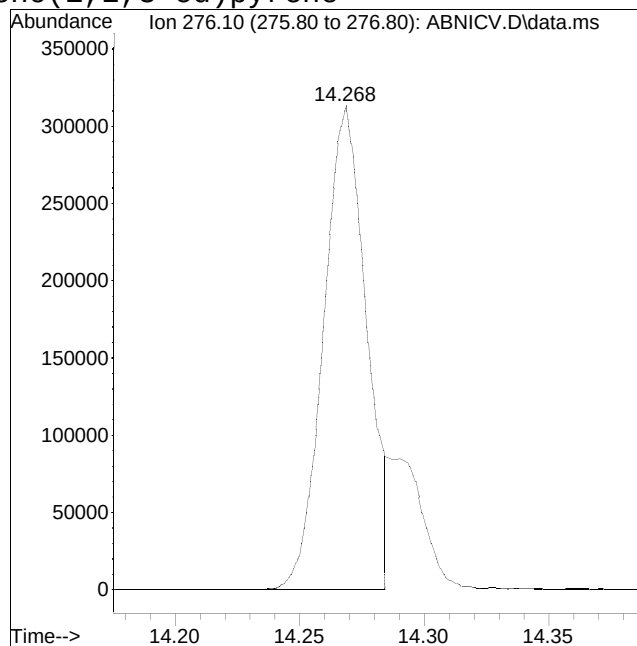
Data Path : I:\8270\Dakota\250416RVTICQ16
Data File : ABNICV.D
Date Inj'd : 4/17/2025 12:13 am
Sample : CQICV1,32,,ABNICV Lot# 115099
Method : FS250416RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Acq Date : 4/17/2025 3:21 pm

Compound #116: Indeno(1,2,3-cd)pyrene



Original Peak Response = 459191

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 378011 M6

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : AP9ICV.D
 Acq On : 17 Apr 2025 12:36 am
 Operator : Dakota:HNY
 Sample : CQICV2,32,,AP9ICV Lot# 11560
 Misc : WG2055280
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Apr 17 15:24:26 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

27 I	IS2_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00
28 T	Benzaldehyde	0.839	0.913	-8.8	103	0.00
29 T	Acetophenone	1.481	1.551	-4.7	100	0.00
30 T	m-Toluidine	1.490	1.575	-5.7	104	0.00
31 T	2-Chloroaniline	1.308	1.434	-9.6	105	0.00
57 I	IS2_Naphthalene-d8	1.000	1.000	0.0	101	0.00
58 T	a-Terpineol	0.290	0.311	-7.2	102	0.00
59 T	3-Chloroaniline	0.149	0.159	-6.7	106	0.00
60 T	2,6-Dichlorophenol	0.329	0.346	-5.2	100	0.00
61 T	1-chloro-2-nitrobenzene	0.139	0.148	-6.5	103	0.00
62 T	Caprolactam	0.169	0.170	-0.6	106	0.00
63 T	1,2,4,5-Tetrachlorobenzene	0.444	0.463	-4.3	107	0.00
64 T	Biphenyl	0.950	0.983	-3.5	102	0.00
85 I	IS2_Acenaphthene-d10	1.000	1.000	0.0	104	0.00
86 T	Dichloran	0.205	0.196	4.4	108	0.00
87 T	Pentachloronitrobenzene	0.184	0.198	-7.6	105	0.00
100 I	IS2_Phenanthrene-d10	1.000	1.000	0.0	107	0.00
101 T	Diphenamid	0.466	0.506	-8.6	108	0.00

 * Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : AP9ICV.D
 Acq On : 17 Apr 2025 12:36 am
 Operator : Dakota:HNY
 Sample : CQICV2,32,,AP9ICV Lot# 11560
 Misc : WG2055280
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Apr 17 15:24:26 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.817	152	36137	4.000	ug/ml	0.00
Standard Area 3 = 36805			Recovery =	98.19%		
57) IS2_Naphthalene-d8	6.051	136	124803	4.000	ug/ml	# 0.00
Standard Area 3 = 123208			Recovery =	101.29%		
85) IS2_Acenaphthene-d10	7.754	164	88783	4.000	ug/ml	0.00
Standard Area 3 = 84975			Recovery =	104.48%		
100) IS2_Phenanthrene-d10	9.184	188	197922	4.000	ug/ml	0.00
Standard Area 3 = 185606			Recovery =	106.64%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	4.385	105	41223	5.437	ug/ml	94
29) Acetophenone	5.215	105	70057	5.235	ug/ml#	89
30) m-Toluidine	5.295	106	71135	5.283	ug/ml	95
31) 2-Chloroaniline	5.656	127	64773	5.480	ug/ml	95
58) a-Terpineol	6.104	59	48558	5.358	ug/ml	91
59) 3-Chloroaniline	6.119	65	24790	5.348	ug/ml	79
60) 2,6-Dichlorophenol	6.147	162	54036	5.263	ug/ml#	87
61) 1-chloro-2-nitrobenzene	6.402	111	23047	5.307	ug/ml#	1
62) Caprolactam	6.436	55	26539	5.030	ug/ml#	82
63) 1,2,4,5-Tetrachloroben...	6.918	216	72187	5.212	ug/ml	97
64) Biphenyl	7.210	154	153392	5.174	ug/ml	98
86) Dichloran	8.879	206	21727	4.772	ug/ml#	61
87) Pentachloronitrobenzene	9.028	237	21946	5.360	ug/ml#	80
101) Diphenamid	10.082	167	125299	5.437	ug/ml#	78

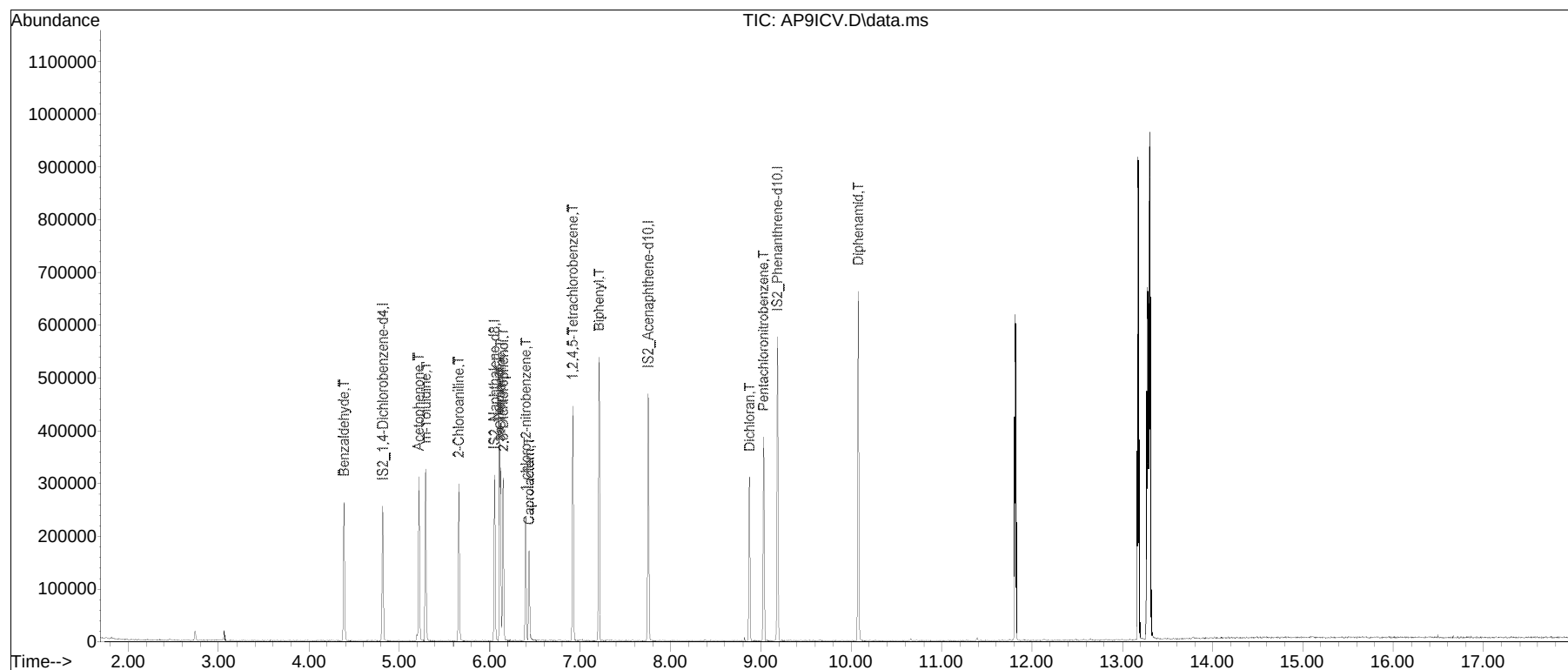
(#) = qualifier out of range (m) = manual integration (+) = signals summed

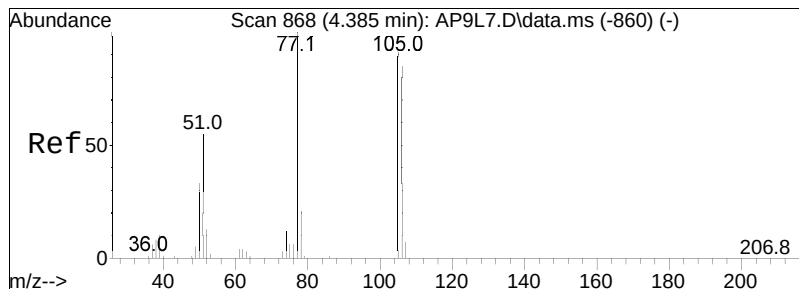
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : AP9ICV.D
 Acq On : 17 Apr 2025 12:36 am
 Operator : Dakota:HNY
 Sample : CQICV2,32,,AP9ICV Lot# 11560
 Misc : WG2055280
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Apr 17 15:24:26 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

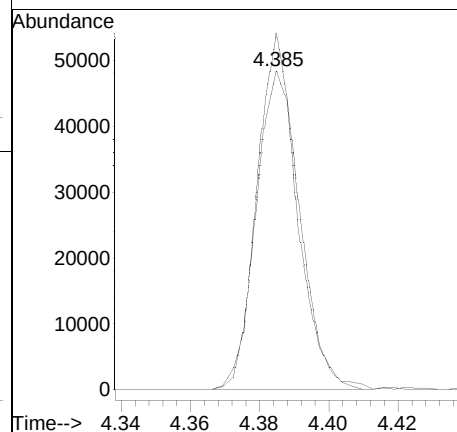
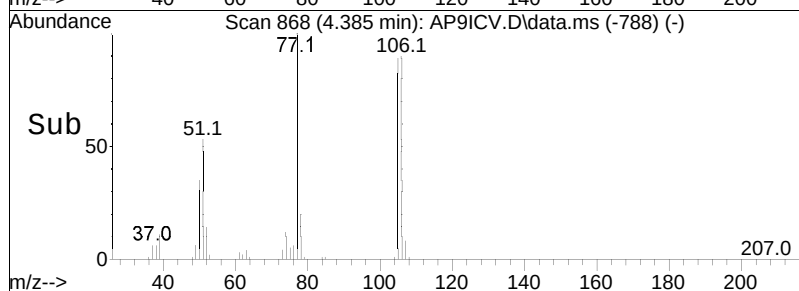
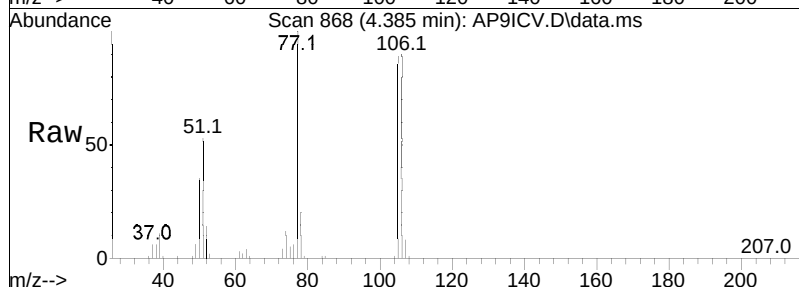
Sub List : ~~AP9ICV.D~~ I:\8270\Dakota\250416RVTICAL\AP9L6.D•

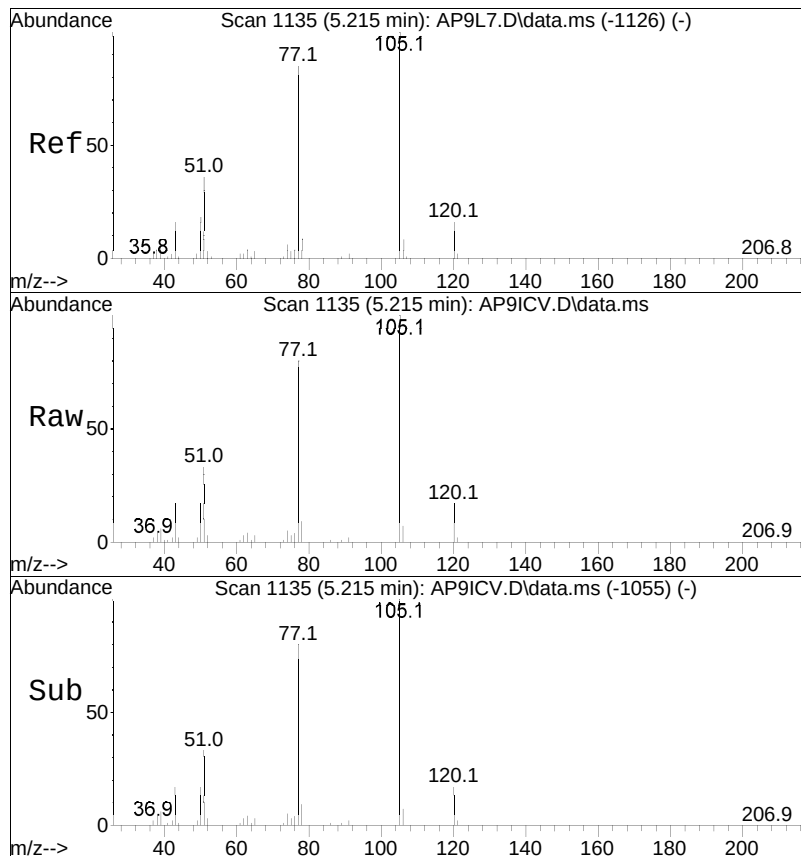




#28
Benzaldehyde
Concen: 5.44 ug/ml
RT: 4.385 min Scan# 868
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 17 Apr 2025 12:36 am

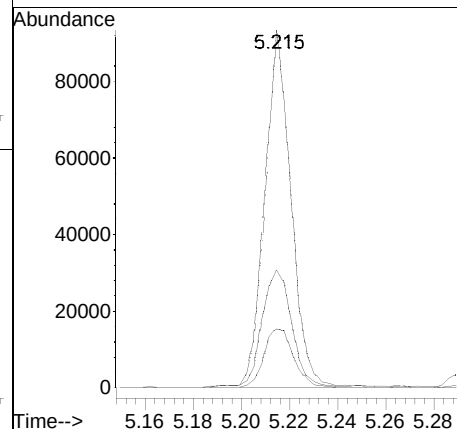
Tgt Ion:105 Resp: 41223
Ion Ratio Lower Upper
105 100
77 108.9 82.2 123.4

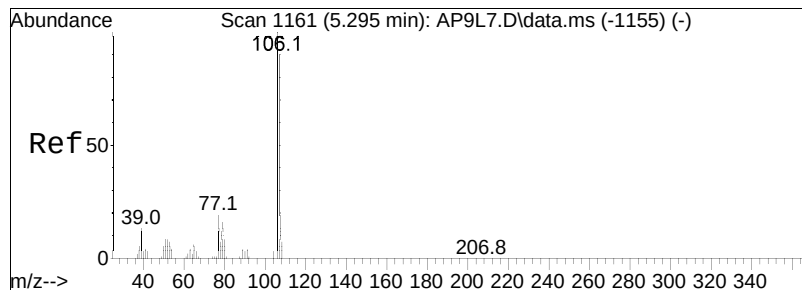




#29
 Acetophenone
 Concen: 5.23 ug/ml
 RT: 5.215 min Scan# 1135
 Delta R.T. -0.000 min
 Lab File: AP9ICV.D
 Acq: 17 Apr 2025 12:36 am

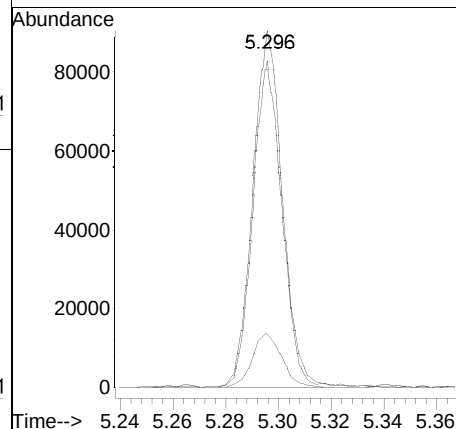
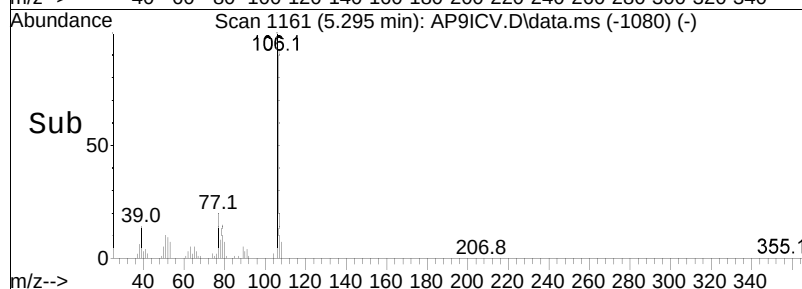
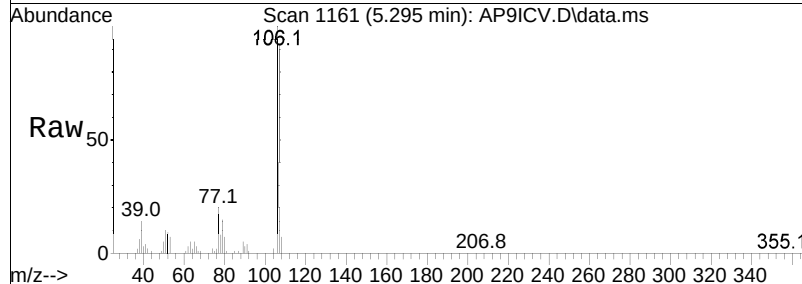
Tgt	Ion:105	Resp:	70057
Ion	Ratio	Lower	Upper
105	100		
120	18.6	20.5	30.7#
51	37.7	34.9	52.3

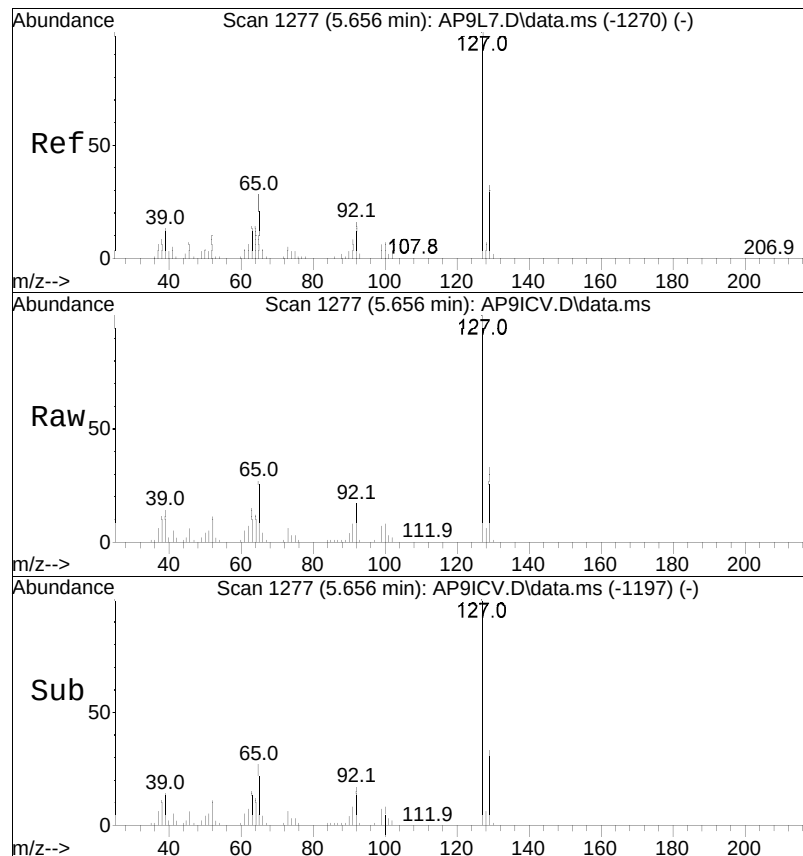




#30
 m-Toluidine
 Concen: 5.28 ug/ml
 RT: 5.295 min Scan# 1161
 Delta R.T. 0.000 min
 Lab File: AP9ICV.D
 Acq: 17 Apr 2025 12:36 am

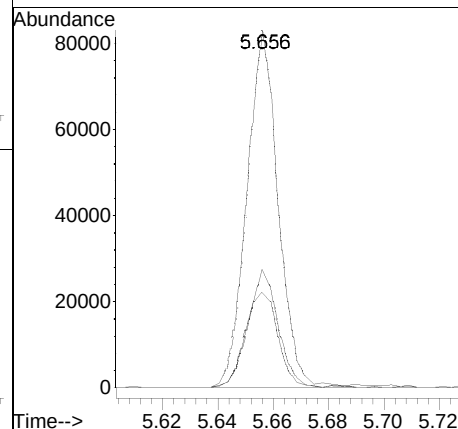
Tgt Ion	Ratio	Lower	Upper
106	100		
107	89.0	75.7	113.5
79	15.0	11.8	17.8

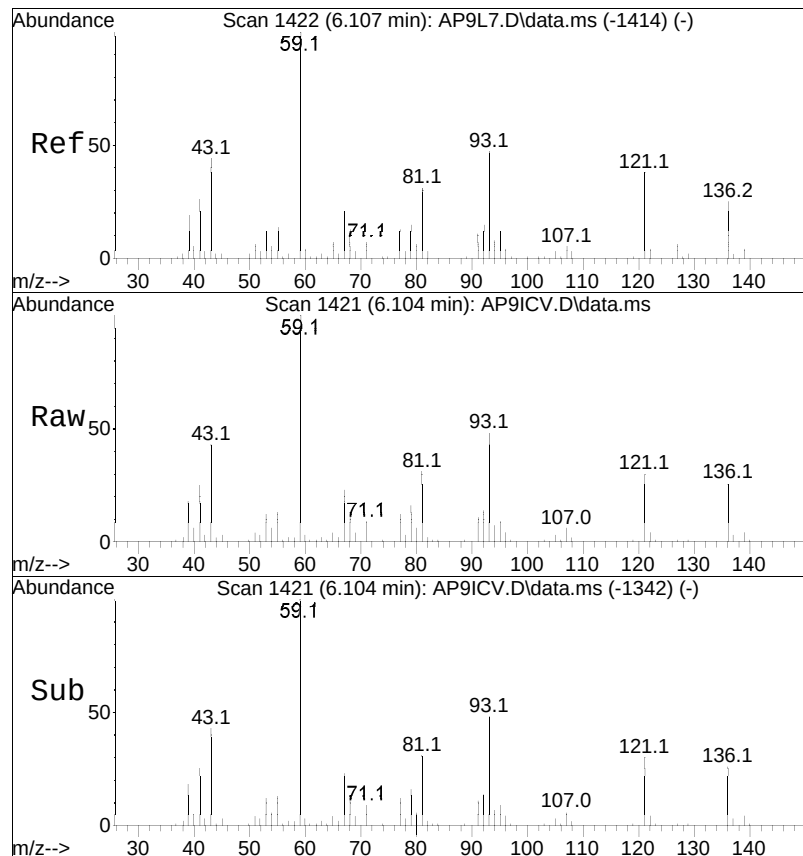




#31
 2-Chloroaniline
 Concen: 5.48 ug/ml
 RT: 5.656 min Scan# 1277
 Delta R.T. 0.000 min
 Lab File: AP9ICV.D
 Acq: 17 Apr 2025 12:36 am

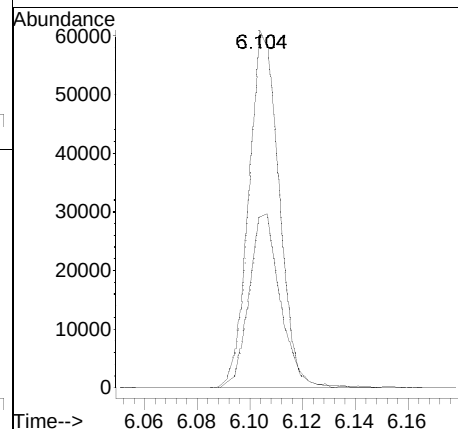
Tgt Ion	Ratio	Resp	Lower	Upper
127	100	64773		
129	31.6		25.9	38.9
65	28.0		26.3	39.5

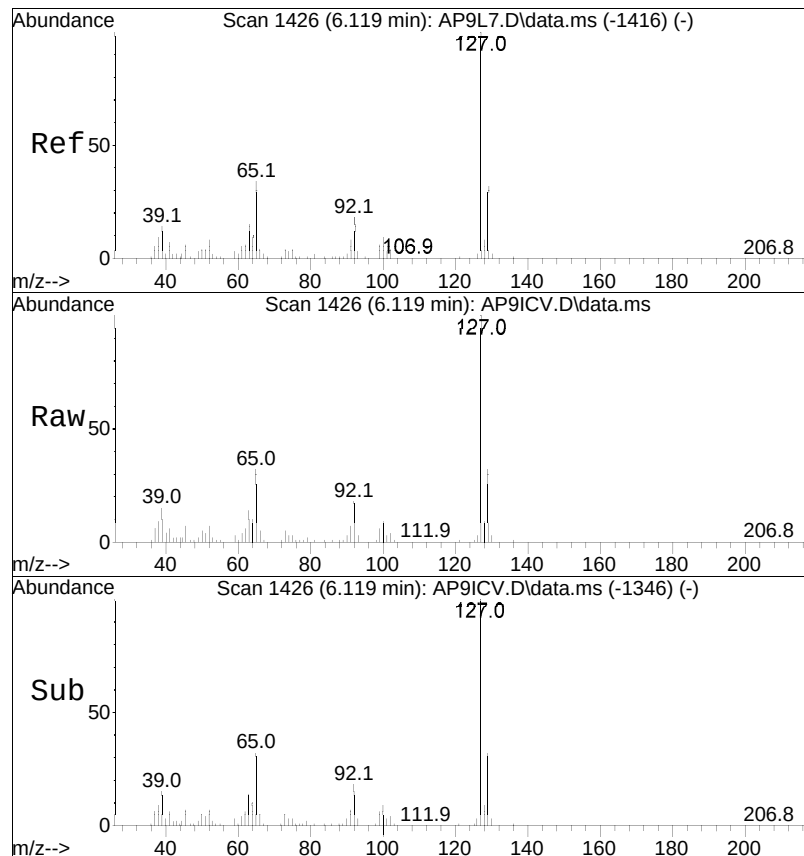




#58
 a-Terpineol
 Concen: 5.36 ug/ml
 RT: 6.104 min Scan# 1421
 Delta R.T. -0.003 min
 Lab File: AP9ICV.D
 Acq: 17 Apr 2025 12:36 am

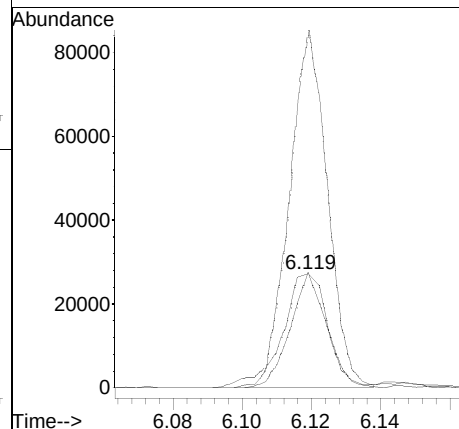
Tgt Ion: 59 Resp: 48558
 Ion Ratio Lower Upper
 59 100
 93 50.1 35.6 53.4

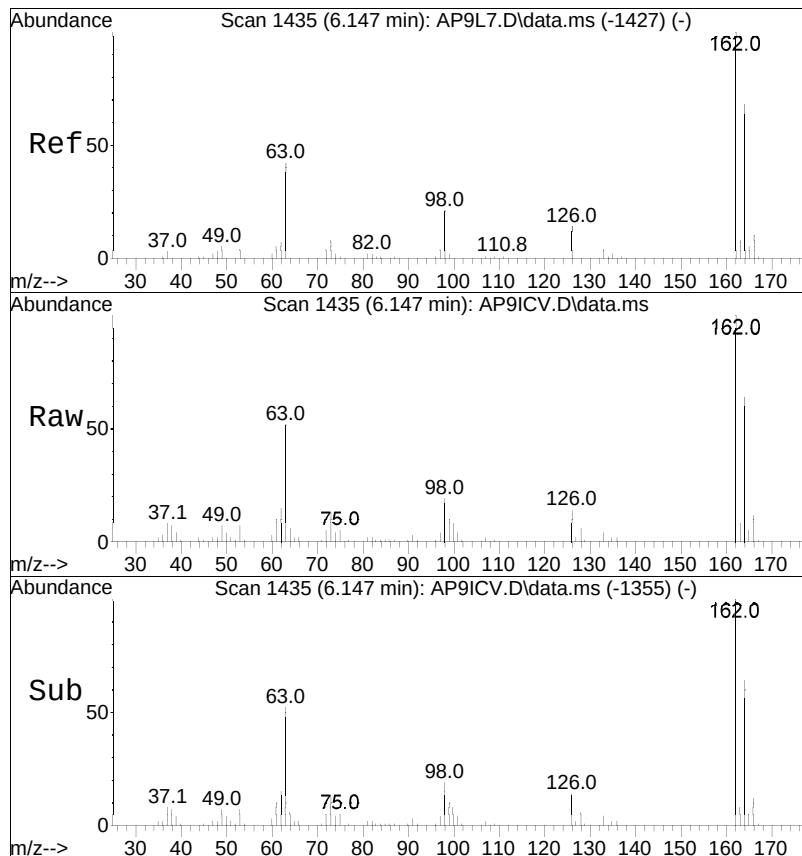




#59
 3-Chloroaniline
 Concen: 5.35 ug/ml
 RT: 6.119 min Scan# 1426
 Delta R.T. 0.000 min
 Lab File: AP9ICV.D
 Acq: 17 Apr 2025 12:36 am

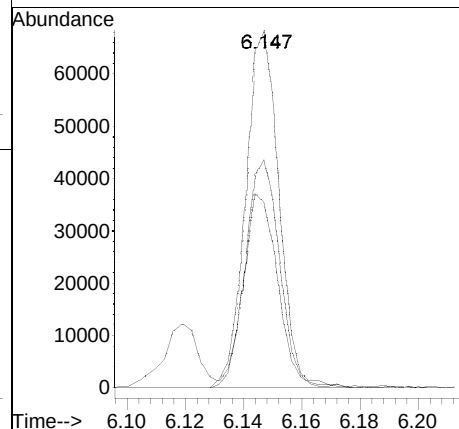
Tgt Ion	Ratio	Lower	Upper
65	100		
127	260.7	243.2	364.8
129	80.2	78.8	118.2

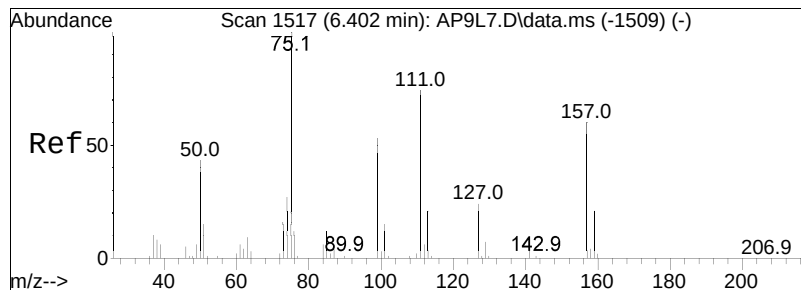




#60
 2,6-Dichlorophenol
 Concen: 5.26 ug/ml
 RT: 6.147 min Scan# 1435
 Delta R.T. 0.000 min
 Lab File: AP9ICV.D
 Acq: 17 Apr 2025 12:36 am

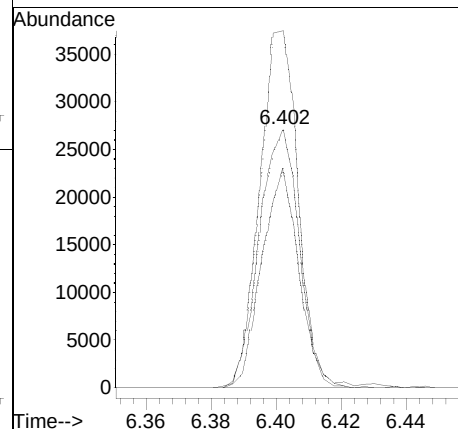
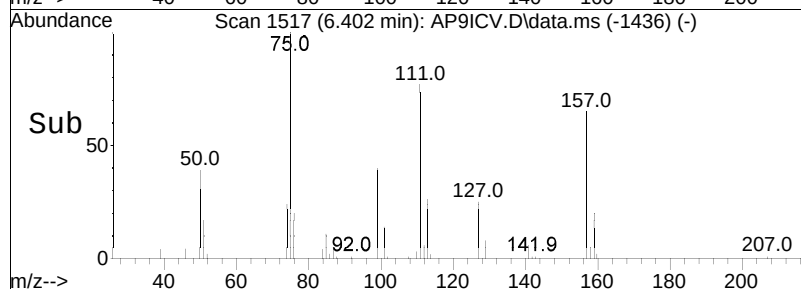
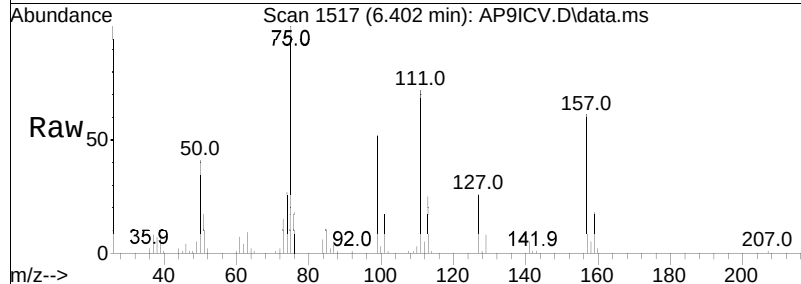
Tgt Ion	Ratio	Lower	Upper
162	100		
164	65.2	51.1	76.7
63	55.9	60.8	91.2#

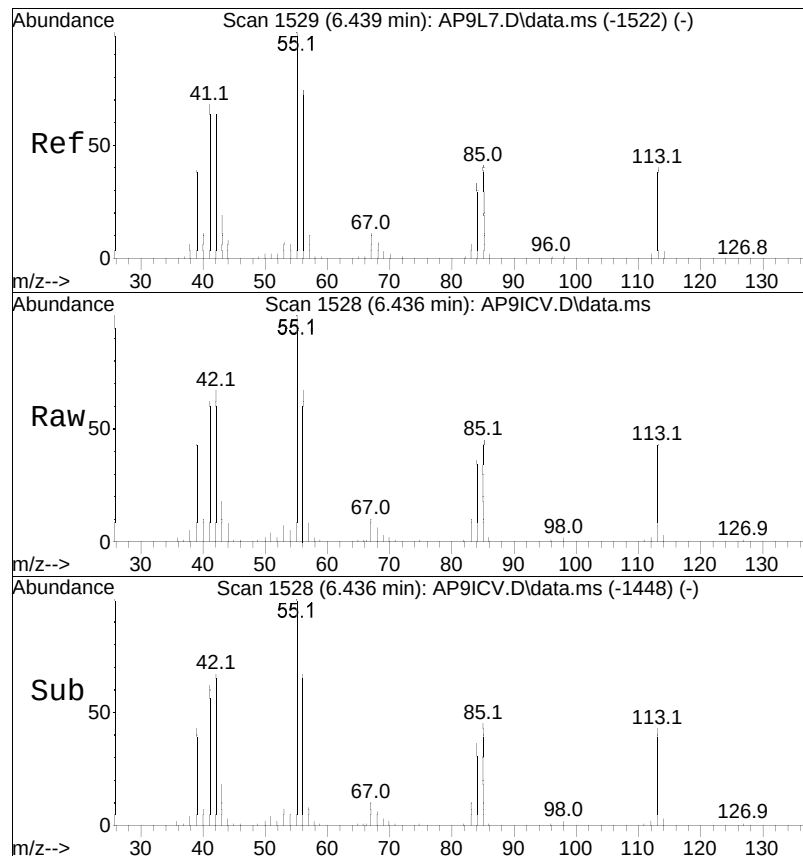




#61
 1-chloro-2-nitrobenzene
 Concen: 5.31 ug/ml
 RT: 6.402 min Scan# 1517
 Delta R.T. 0.003 min
 Lab File: AP9ICV.D
 Acq: 17 Apr 2025 12:36 am

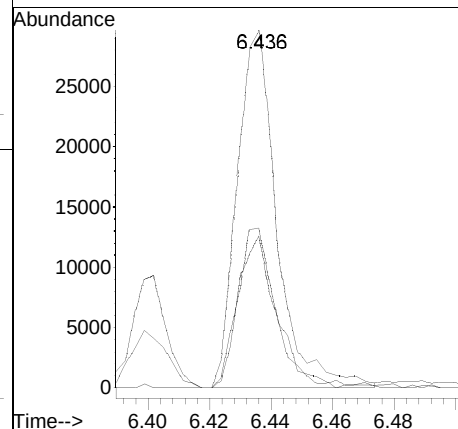
Tgt Ion	Ratio	Resp	Lower	Upper
111	100	23047		
157	77.9	0.0	0.0#	
75	133.7	28.2	42.2#	

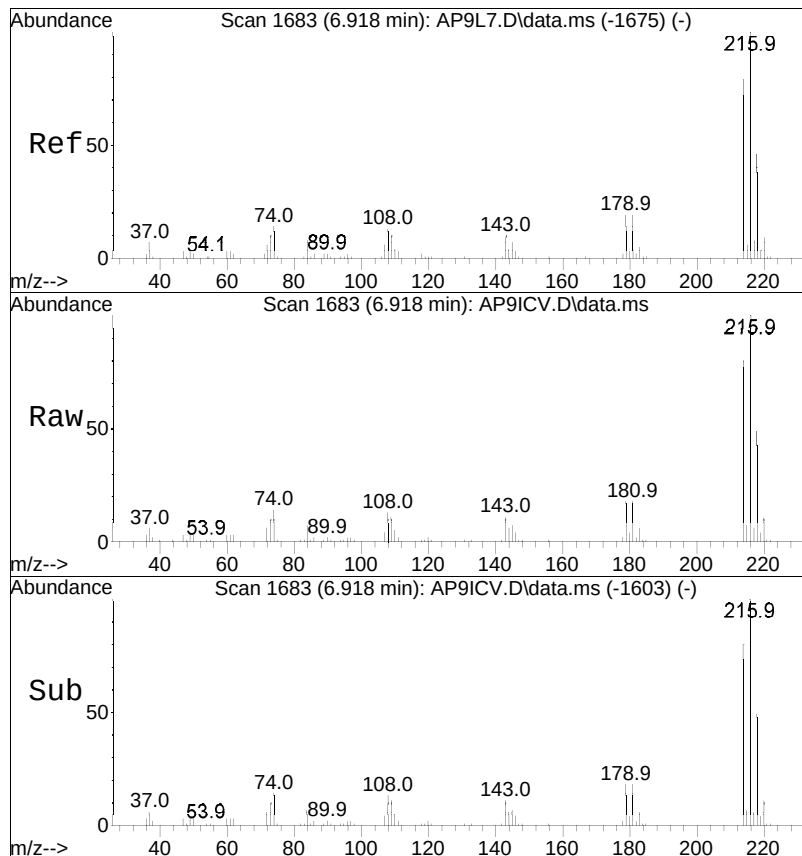




#62
 Caprolactam
 Concen: 5.03 ug/ml
 RT: 6.436 min Scan# 1528
 Delta R.T. 0.000 min
 Lab File: AP9ICV.D
 Acq: 17 Apr 2025 12:36 am

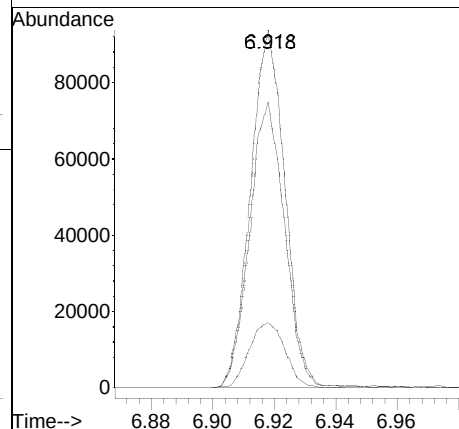
Tgt	Ion:	55	Resp:	26539
Ion	Ratio	Lower	Upper	
55	100			
85	44.0	19.8	29.6#	
113	39.7	29.6	44.4	

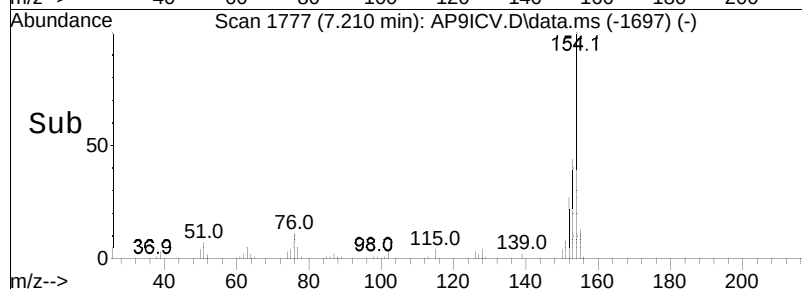
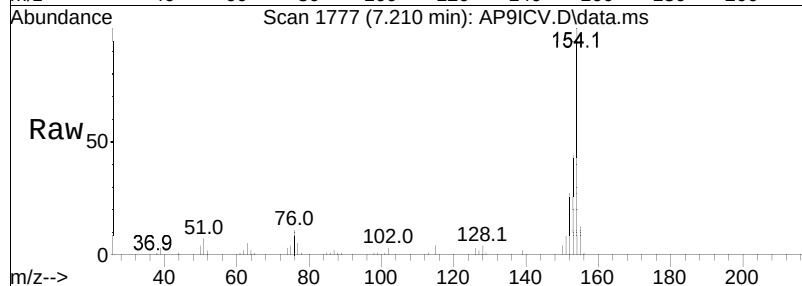
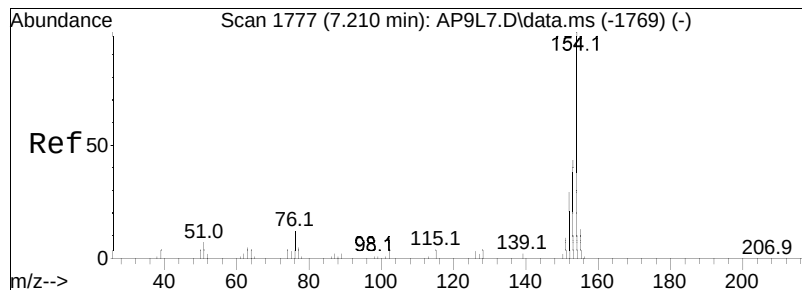




#63
 1,2,4,5-Tetrachlorobenzene
 Concen: 5.21 ug/ml
 RT: 6.918 min Scan# 1683
 Delta R.T. -0.000 min
 Lab File: AP9ICV.D
 Acq: 17 Apr 2025 12:36 am

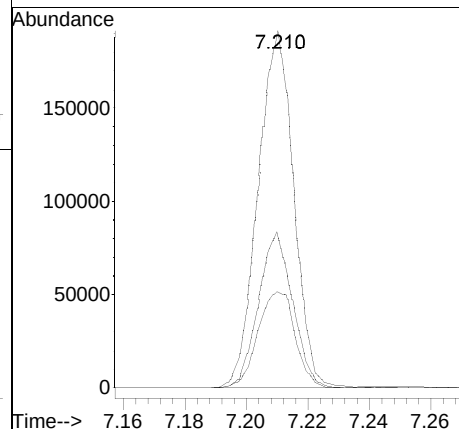
Tgt Ion	Ratio	Resp	Lower	Upper
216	100	72187		
214	80.9		63.7	95.5
179	19.2		19.0	28.6

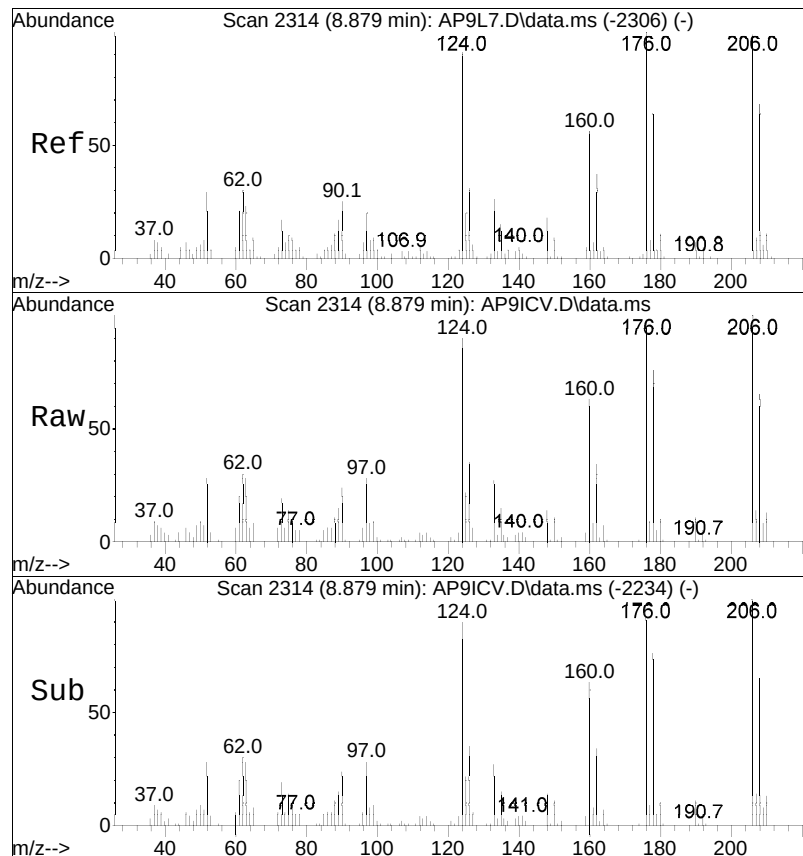




#64
 Biphenyl
 Concen: 5.17 ug/ml
 RT: 7.210 min Scan# 1777
 Delta R.T. 0.000 min
 Lab File: AP9ICV.D
 Acq: 17 Apr 2025 12:36 am

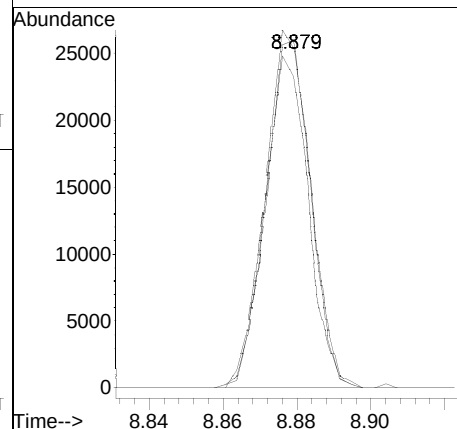
Tgt	Ion:154	Resp:	153392
Ion	Ratio	Lower	Upper
154	100		
153	41.9	32.3	48.5
152	28.3	22.5	33.7

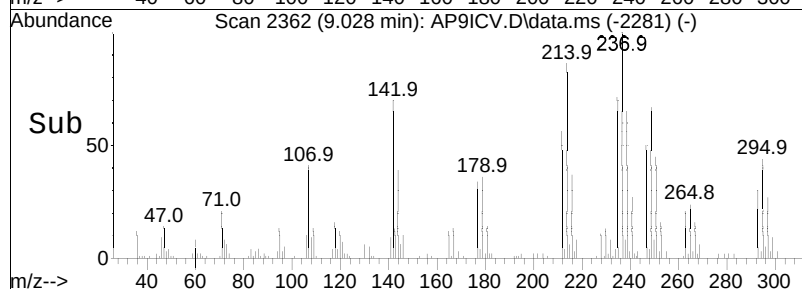
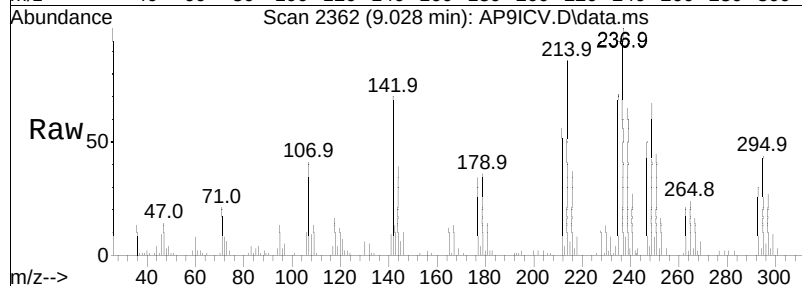
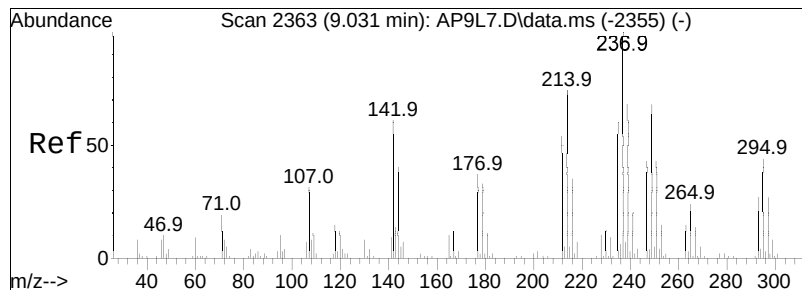




#86
 Dichloran
 Concen: 4.77 ug/ml
 RT: 8.879 min Scan# 2314
 Delta R.T. 0.000 min
 Lab File: AP9ICV.D
 Acq: 17 Apr 2025 12:36 am

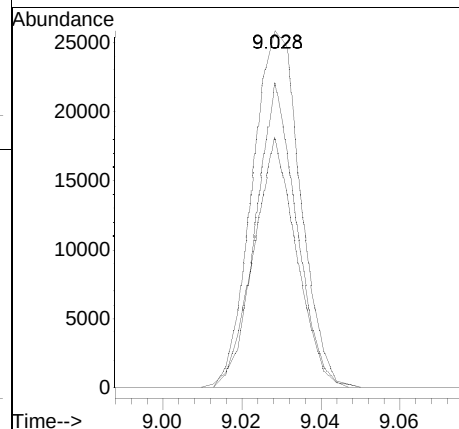
Tgt Ion	Ratio	Lower	Upper
206	100		
176	103.8	104.6	157.0#
124	94.4	130.5	195.7#

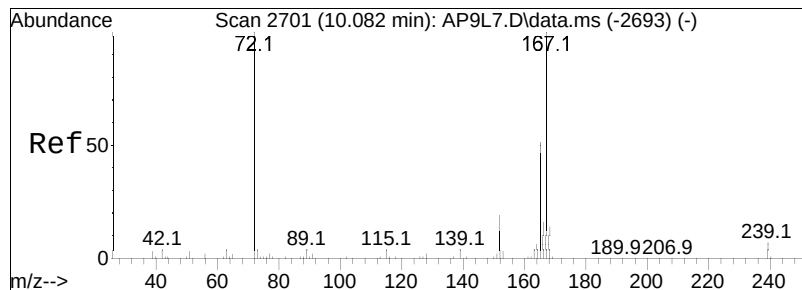




#87
 Pentachloronitrobenzene
 Concen: 5.36 ug/ml
 RT: 9.028 min Scan# 2362
 Delta R.T. 0.000 min
 Lab File: AP9ICV.D
 Acq: 17 Apr 2025 12:36 am

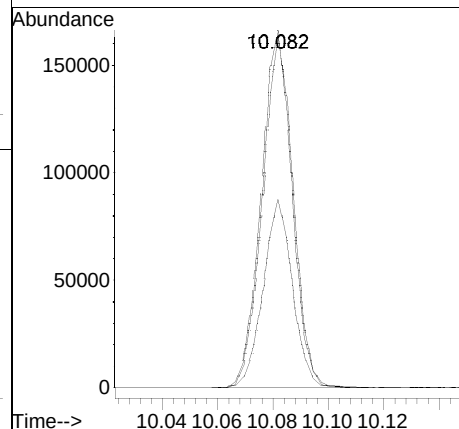
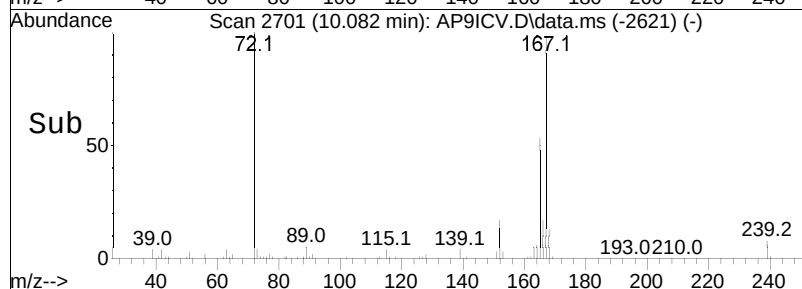
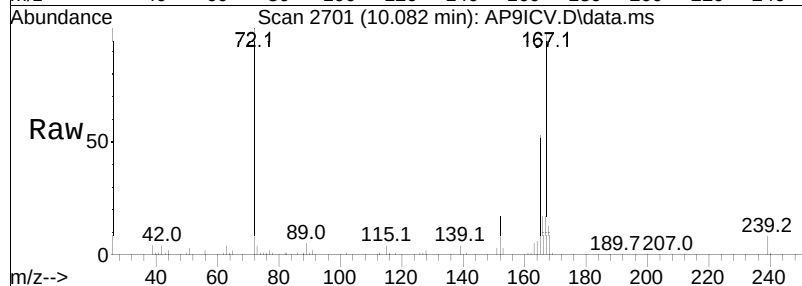
Tgt Ion	Ratio	Lower	Upper
237	100		
142	61.8	77.0	115.4#
214	72.6	58.2	87.4





#101
 Diphenamid
 Concen: 5.44 ug/ml
 RT: 10.082 min Scan# 2701
 Delta R.T. -0.000 min
 Lab File: AP9ICV.D
 Acq: 17 Apr 2025 12:36 am

Tgt Ion	Ratio	Lower	Upper
167	100		
72	101.5	109.7	164.5#
165	51.6	41.8	62.6



Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICV.M
Data File : AP9ICV.D
Date Inj'd : 4/17/2025 12:36 am
Sample : CQICV2,32,,AP9ICV Lot# 115000
Method : FS250416RVT_Dakota.m
Operator : Dakota: HNY
Instrument : Dakota
Acq Date : 4/17/2025 3:25 pm

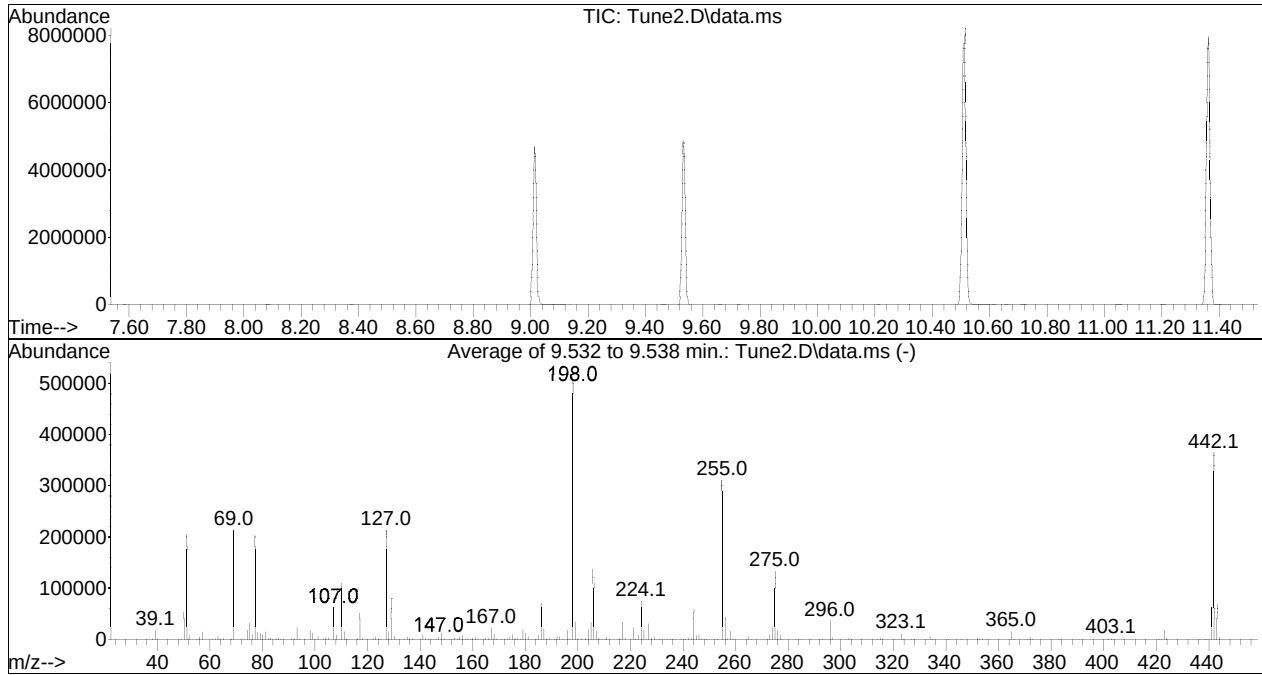
There are no manual integrations or false positives in this file.

DFTPP

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : Tune2.D
 Acq On : 17 Apr 2025 12:58 am
 Operator : Dakota:HNY
 Sample : Tune2 Lot # 11483
 Misc : WG2055280
 ALS Vial : 100 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Thu Apr 17 14:28:59 2025



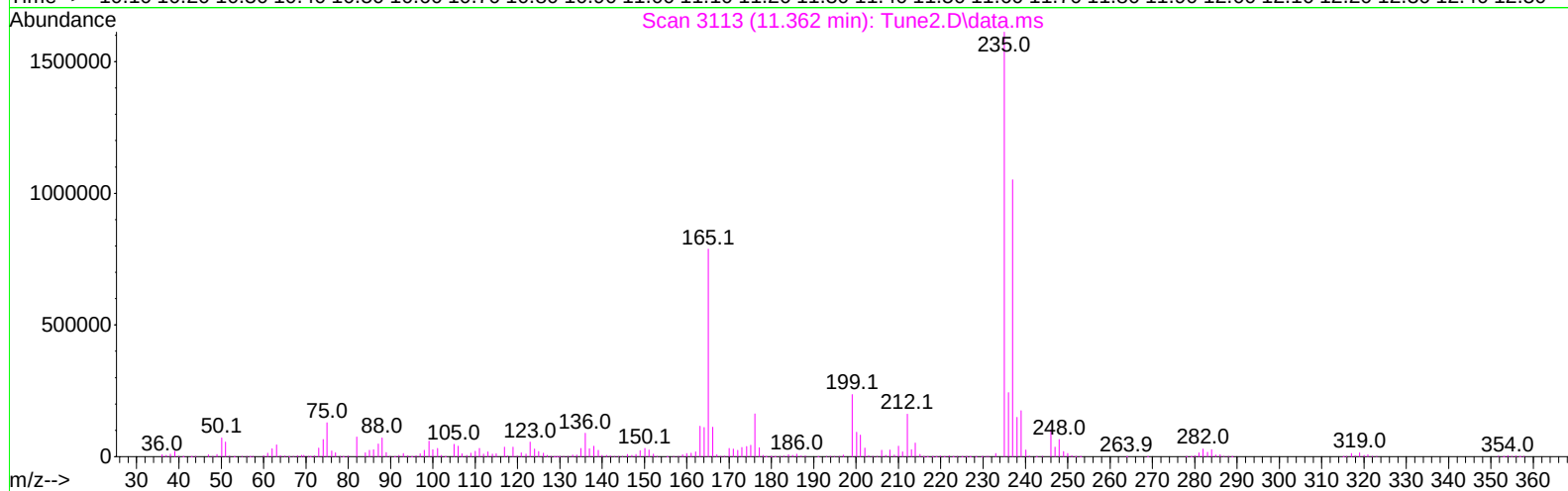
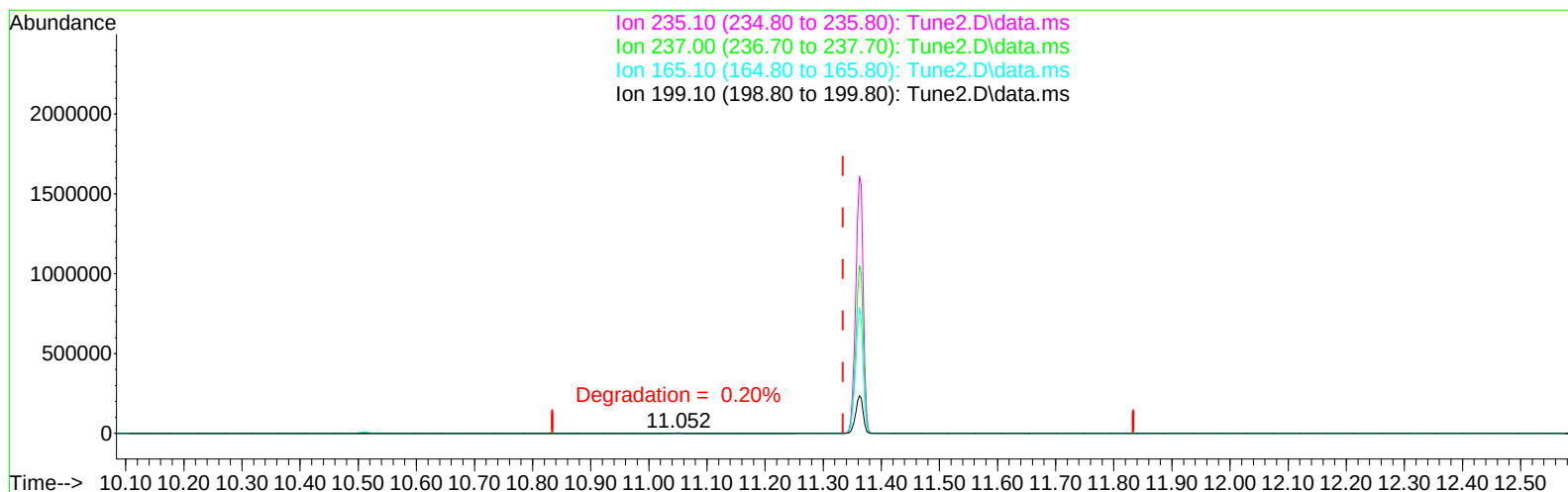
Spectrum Information: Average of 9.532 to 9.538 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	39.6	204160	PASS
68	69	0.00	2	1.2	2570	PASS
69	69	100	100	100.0	213504	PASS
70	69	0.00	2	0.4	832	PASS
127	198	10	80	41.4	213355	PASS
197	198	0.00	2	0.4	1955	PASS
198	198	100	100	100.0	515371	PASS
199	198	5	9	6.5	33749	PASS
275	198	10	60	25.9	133491	PASS
365	198	1	100	3.0	15543	PASS
441	442	0.01	24	17.2	62736	PASS
442	198	50	100	70.6	364011	PASS
443	442	15	24	19.2	69787	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : Tune2.D
 Acq On : 17 Apr 2025 12:58 am
 Operator : Dakota:HNY
 Sample : Tune2 Lot # 11483
 Misc : WG2055280
 ALS Vial : 100 Sample Multiplier: 1

Quant Time: Apr 17 06:07:03 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\DftppDakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Apr 04 07:50:11 2025
 Response via : Initial Calibration



CHROMtools™ [Tune2 Lot # 11483]

(6) DDT (T)

11.362min (+ 0.028) 239.10

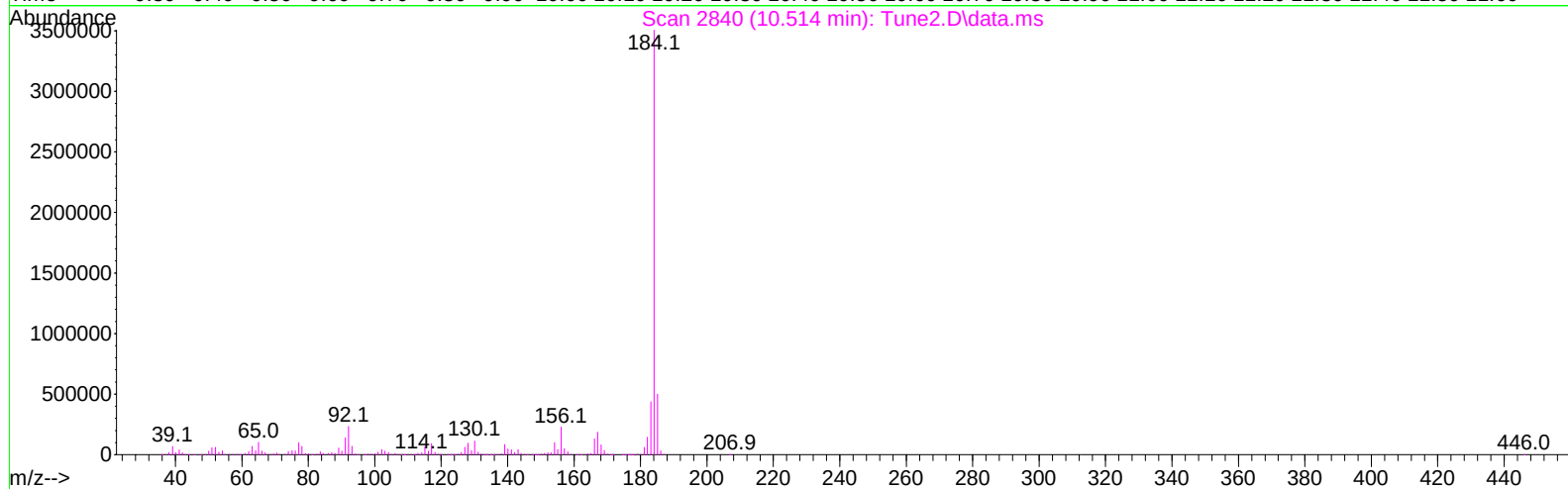
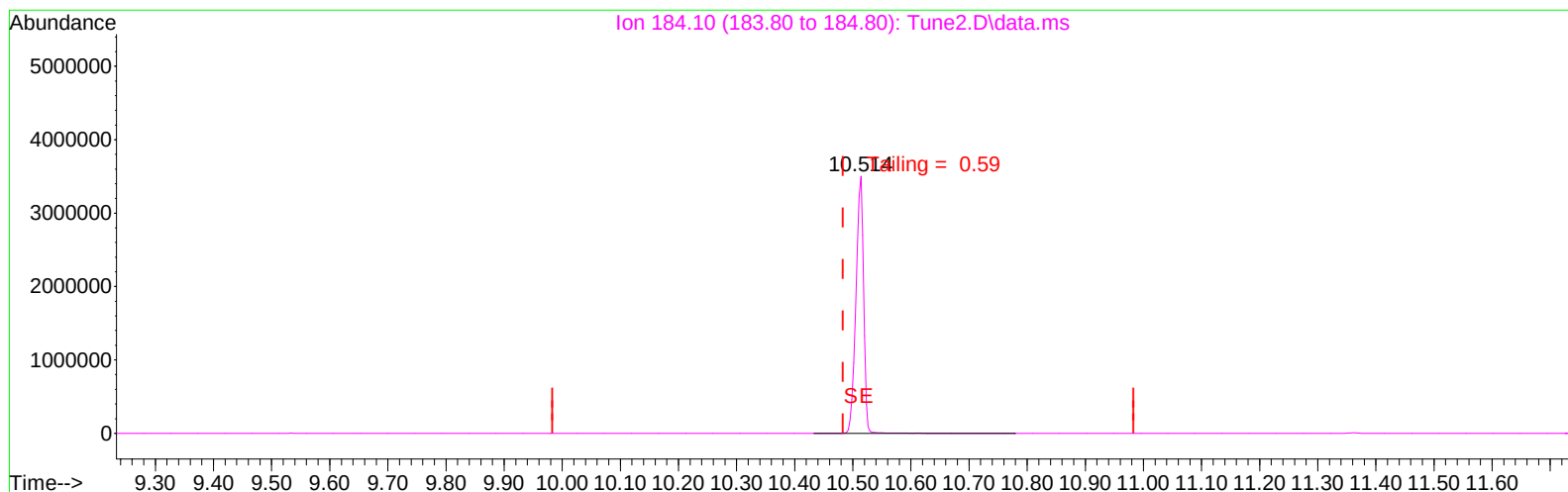
response 1457512

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	63.90	64.79
165.10	48.70	47.58
199.10	15.80	14.40

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : Tune2.D
 Acq On : 17 Apr 2025 12:58 am
 Operator : Dakota:HNY
 Sample : Tune2 Lot # 11483
 Misc : WG2055280
 ALS Vial : 100 Sample Multiplier: 1

Quant Time: Apr 17 06:07:03 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\DftppDakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Apr 04 07:50:11 2025
 Response via : Initial Calibration



CHROMtools™ [Tune2 Lot # 11483]

(3) Benzidine (T)

10.514min (+ 0.031) 313.66

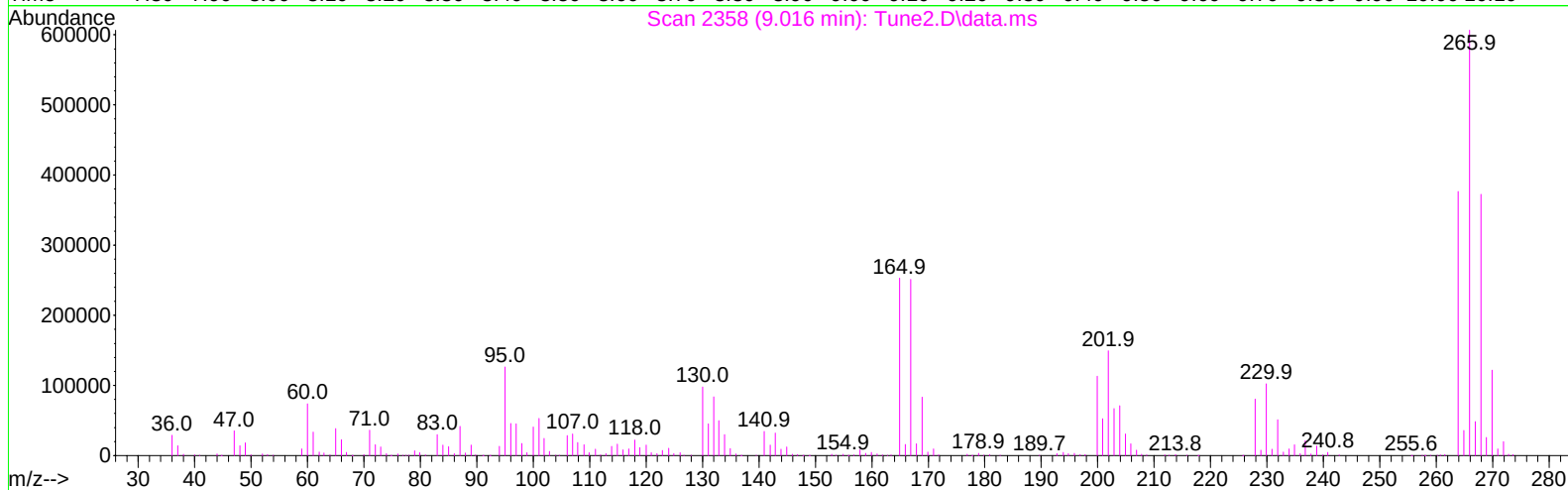
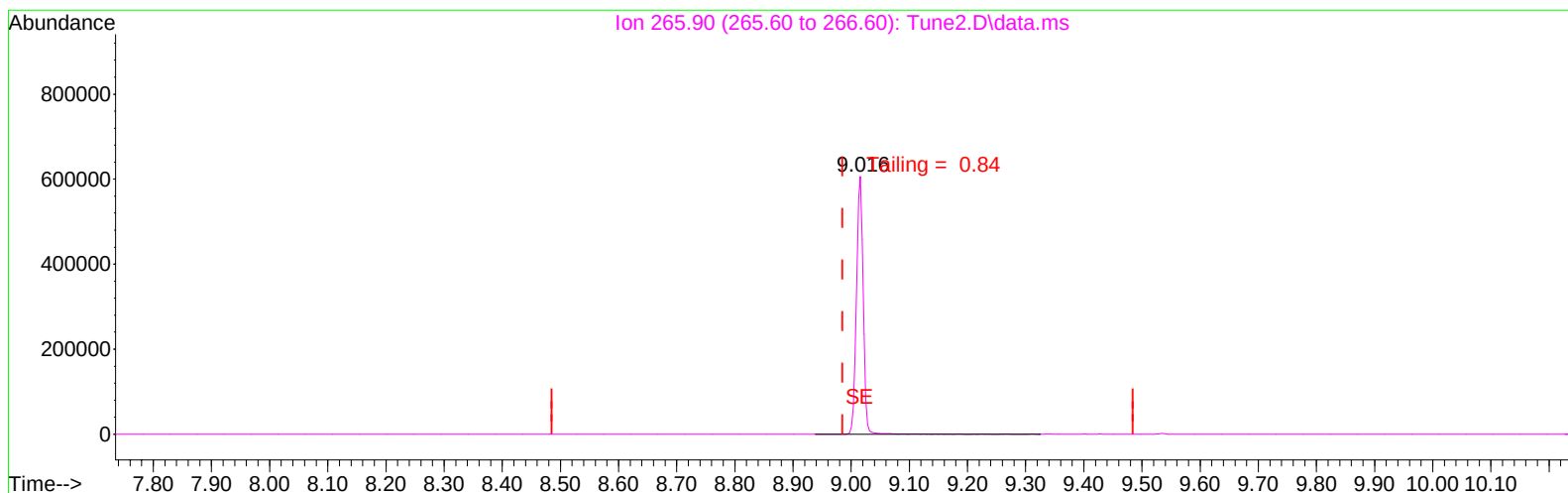
response 3193124

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : Tune2.D
 Acq On : 17 Apr 2025 12:58 am
 Operator : Dakota:HNY
 Sample : Tune2 Lot # 11483
 Misc : WG2055280
 ALS Vial : 100 Sample Multiplier: 1

Quant Time: Apr 17 06:07:03 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\DftppDakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Apr 04 07:50:11 2025
 Response via : Initial Calibration



CHROMtools™ [Tune2 Lot # 11483]

(1) Pentachlorophenol (T)

9.016min (+ 0.031) 232.56

response 488454

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ADPL9.D
 Acq On : 17 Apr 2025 1:20 am
 Operator : Dakota:HNY
 Sample : IL2,32,,ADPL50 Lot# 11550
 Misc : WG2055280
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Apr 17 15:24:14 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ADPical_REV3 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.817	152	36691	4.000	ug/ml	0.00
Standard Area 2 = 36126			Recovery =	101.56%		
88) IS3_Acenaphthene-d10	7.754	164	91131	4.000	ug/ml	0.00
Standard Area 2 = 87730			Recovery =	103.88%		
102) IS3_Phenanthrene-d10	9.184	188	211362	4.000	ug/ml	0.00
Standard Area 2 = 189656			Recovery =	111.44%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.904	88	189620	48.011	ug/ml#	73
34) n-Nitrosodiethylamine	3.763	102	209523	55.622	ug/ml#	32
35) n-Decane	4.705	57	608630	49.327	ug/ml#	28
36) n-Nitrosopyrrolidine	5.187	100	262592	55.223	ug/ml#	48
89) Atrazine	8.957	200	547903	56.788	ug/ml	92
103) n-Octadecane	9.156	57	1050269	50.652	ug/ml#	1
104) Parathion	9.964	109	335373	49.563	ug/ml	92
105) 3,3'-Dimethylbenzidine	11.254	212	2678307	51.549	ug/ml	98

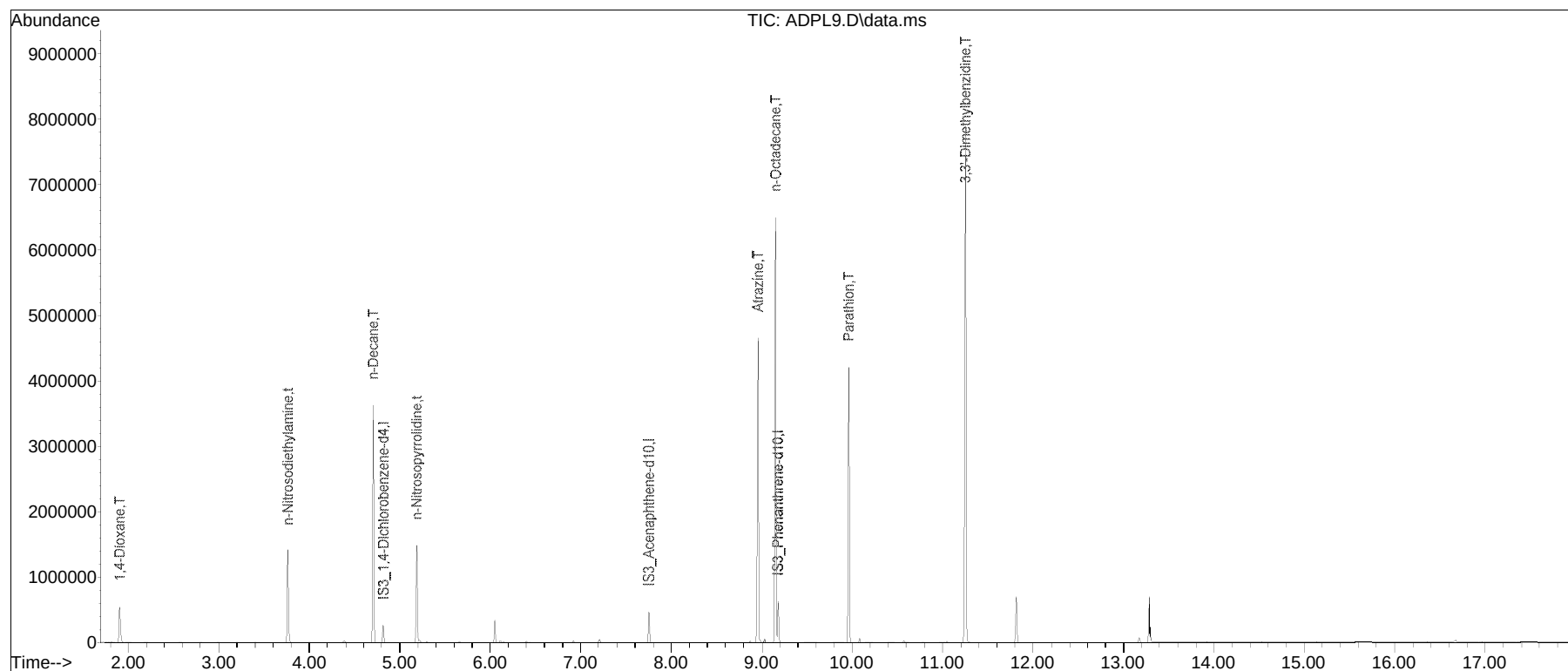
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ADPL9.D
 Acq On : 17 Apr 2025 1:20 am
 Operator : Dakota:HNY
 Sample : IL2,32,,ADPL50 Lot# 11550
 Misc : WG2055280
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Apr 17 15:24:14 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

Sub List : ADPL9.D\8270\Dakota\250416RVTICAL\AP9L6.D•



Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQ\Method : FS250416RVT_Dakota.m
Data File : ADPL9.D Operator : Dakota:HNY
Date Inj'd : 4/17/2025 1:20 am Instrument : Dakota
Sample : IL2,32,,ADPL50 Lot# 11550 Quant Date : 4/17/2025 3:25 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ADPL8.D
 Acq On : 17 Apr 2025 1:43 am
 Operator : Dakota:HNY
 Sample : IL3,32,,ADPL25 Lot# 11551
 Misc : WG2055280
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Apr 17 15:24:03 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ADPical_REV3 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.817	152	41099	4.000	ug/ml	0.00
Standard Area 2 = 36126			Recovery	=	113.77%	
88) IS3_Acenaphthene-d10	7.754	164	97232	4.000	ug/ml	0.00
Standard Area 2 = 87730			Recovery	=	110.83%	
102) IS3_Phenanthrene-d10	9.184	188	220283	4.000	ug/ml	0.00
Standard Area 2 = 189656			Recovery	=	116.15%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.904	88	101169	22.868	ug/ml#	71
34) n-Nitrosodiethylamine	3.760	102	110747	26.247	ug/ml#	30
35) n-Decane	4.705	57	325583	23.557	ug/ml#	27
36) n-Nitrosopyrrolidine	5.184	100	142132	26.684	ug/ml#	50
89) Atrazine	8.954	200	284209	27.609	ug/ml	92
103) n-Octadecane	9.153	57	558447	25.842	ug/ml#	1
104) Parathion	9.964	109	164277	26.267	ug/ml	93
105) 3,3'-Dimethylbenzidine	11.247	212	1326899	24.910	ug/ml	98

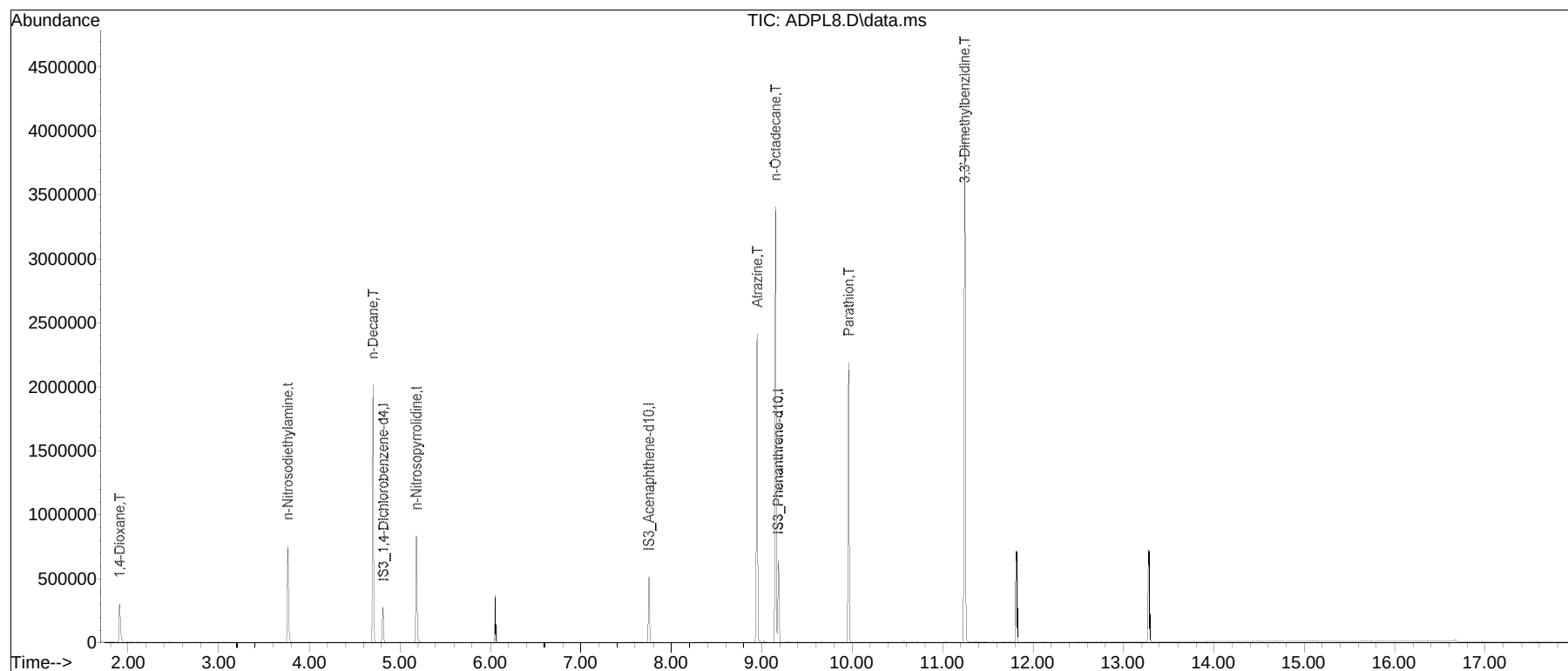
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ADPL8.D
 Acq On : 17 Apr 2025 1:43 am
 Operator : Dakota:HNY
 Sample : IL3,32,,ADPL25 Lot# 11551
 Misc : WG2055280
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Apr 17 15:24:03 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

Sub List : ADP\I\8270\Dakota\250416RVTICAL\AP9L6.D•



Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICOM\Method : FS250416RVT_Dakota.m
Data File : ADPL8.D Operator : Dakota:HNY
Date Inj'd : 4/17/2025 1:43 am Instrument : Dakota
Sample : IL3,32,,ADPL25 Lot# 11551 Quant Date : 4/17/2025 3:24 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ADPL7.D
 Acq On : 17 Apr 2025 2:05 am
 Operator : Dakota:HNY
 Sample : IL4,32,,ADPL10 Lot# 11552
 Misc : WG2055280
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Apr 17 15:23:51 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ADPical_REV3 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.817	152	39584	4.000	ug/ml	0.00
Standard Area 2 = 36126			Recovery	=	109.57%	
88) IS3_Acenaphthene-d10	7.754	164	92323	4.000	ug/ml	0.00
Standard Area 2 = 87730			Recovery	=	105.24%	
102) IS3_Phenanthrene-d10	9.184	188	210476	4.000	ug/ml	0.00
Standard Area 2 = 189656			Recovery	=	110.98%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.907	88	39973	9.381	ug/ml#	71
34) n-Nitrosodiethylamine	3.763	102	43958	10.817	ug/ml#	32
35) n-Decane	4.705	57	129174	9.704	ug/ml#	26
36) n-Nitrosopyrrolidine	5.183	100	51784	10.094	ug/ml#	41
89) Atrazine	8.950	200	104041	10.644	ug/ml#	91
103) n-Octadecane	9.152	57	215536	10.439	ug/ml#	1
104) Parathion	9.961	109	51568	9.711	ug/ml	90
105) 3,3'-Dimethylbenzidine	11.247	212	433618	9.029	ug/ml	98

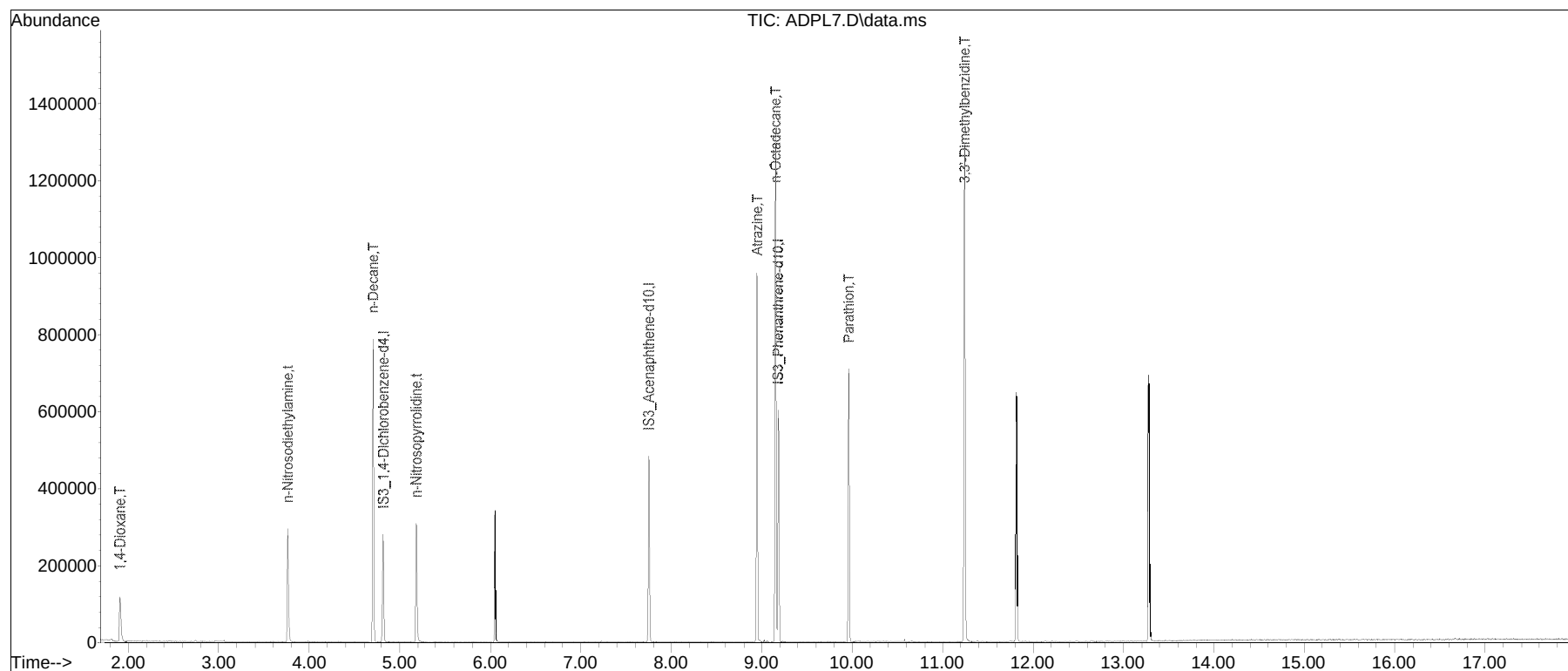
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ADPL7.D
 Acq On : 17 Apr 2025 2:05 am
 Operator : Dakota:HNY
 Sample : IL4,32,,ADPL10 Lot# 11552
 Misc : WG2055280
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Apr 17 15:23:51 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

Sub List : ADPit\82703DakADA\850416RVTICAL\AP9L6.D•



Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQ\Meth
Data File : ADPL7.D Operator : FS250416RVT_Dakota.m
Date Inj'd : 4/17/2025 2:05 am Instrument : Dakota:HNY
Sample : IL4,32,,ADPL10 Lot# 11552 Quant Date : Dakota
 : 4/17/2025 3:24 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ADPL6.D
 Acq On : 17 Apr 2025 2:28 am
 Operator : Dakota:HNY
 Sample : IL5,32,,ADPL5 Lot# 11553
 Misc : WG2055280
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Apr 17 15:23:41 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ADPical_REV3 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.817	152	36126	4.000	ug/ml	0.00
Standard Area 2 = 36126			Recovery	=	100.00%	
88) IS3_Acenaphthene-d10	7.754	164	87730	4.000	ug/ml	0.00
Standard Area 2 = 87730			Recovery	=	100.00%	
102) IS3_Phenanthrene-d10	9.184	188	189656	4.000	ug/ml	0.00
Standard Area 2 = 189656			Recovery	=	100.00%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.914	88	18695	4.808	ug/ml#	70
34) n-Nitrosodiethylamine	3.766	102	19468	5.249	ug/ml#	30
35) n-Decane	4.705	57	59368	4.887	ug/ml#	28
36) n-Nitrosopyrrolidine	5.187	100	22608	4.829	ug/ml#	44
89) Atrazine	8.947	200	43685	4.703	ug/ml	93
103) n-Octadecane	9.153	57	91802	4.934	ug/ml#	1
104) Parathion	9.961	109	19455	4.444	ug/ml	88
105) 3,3'-Dimethylbenzidine	11.244	212	169542	4.356	ug/ml	98

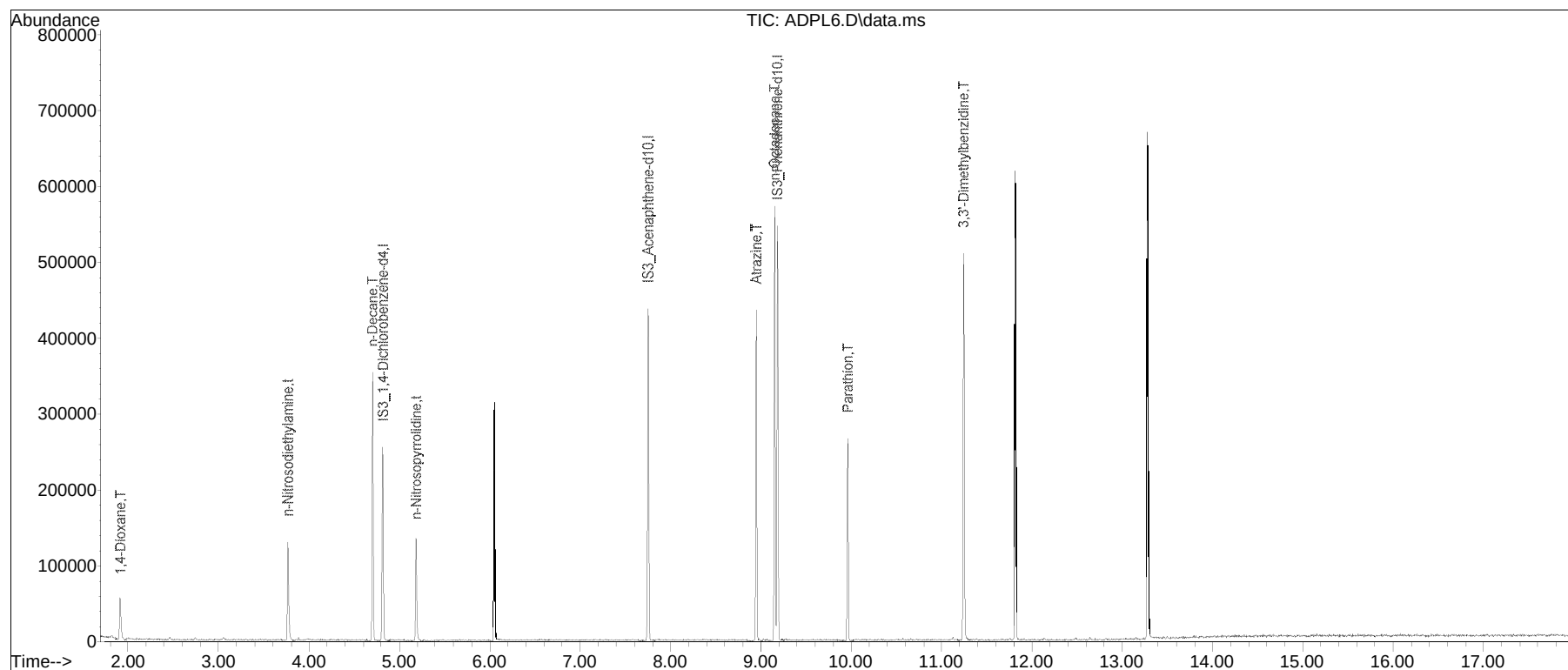
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ADPL6.D
 Acq On : 17 Apr 2025 2:28 am
 Operator : Dakota:HNY
 Sample : IL5,32,,ADPL5 Lot# 11553
 Misc : WG2055280
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Apr 17 15:23:41 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

Sub List : ADP\Ical\8270\3DakADA\250416RVTICAL\AP9L6.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\250416RVTICOM	Method	: FS250416RVT_Dakota.m
Data File	: ADPL6.D	Operator	: Dakota:HNY
Date Inj'd	: 4/17/2025 2:28 am	Instrument	: Dakota
Sample	: IL5,32,,ADPL5 Lot# 11553	Quant Date	: 4/17/2025 3:24 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ADPL5.D
 Acq On : 17 Apr 2025 2:50 am
 Operator : Dakota:HNY
 Sample : IL6,32,,ADPL2.5 Lot# 11554
 Misc : WG2055280
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Apr 17 15:23:30 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ADPical_REV3 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.817	152	36789	4.000	ug/ml	0.00
Standard Area 2 = 36126			Recovery =	101.84%		
88) IS3_Acenaphthene-d10	7.754	164	81833	4.000	ug/ml	0.00
Standard Area 2 = 87730			Recovery =	93.28%		
102) IS3_Phenanthrene-d10	9.184	188	184130	4.000	ug/ml	0.00
Standard Area 2 = 189656			Recovery =	97.09%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.914	88	10325	2.607	ug/ml#	71
34) n-Nitrosodiethylamine	3.769	102	9401	2.489	ug/ml#	18
35) n-Decane	4.705	57	31853	2.575	ug/ml#	30
36) n-Nitrosopyrrolidine	5.187	100	11556	2.424	ug/ml#	37
89) Atrazine	8.948	200	21587	2.492	ug/ml	93
103) n-Octadecane	9.153	57	43493	2.408	ug/ml#	1
104) Parathion	9.958	109	8477	2.265	ug/ml	85
105) 3,3'-Dimethylbenzidine	11.248	212	76058	2.429	ug/ml	98

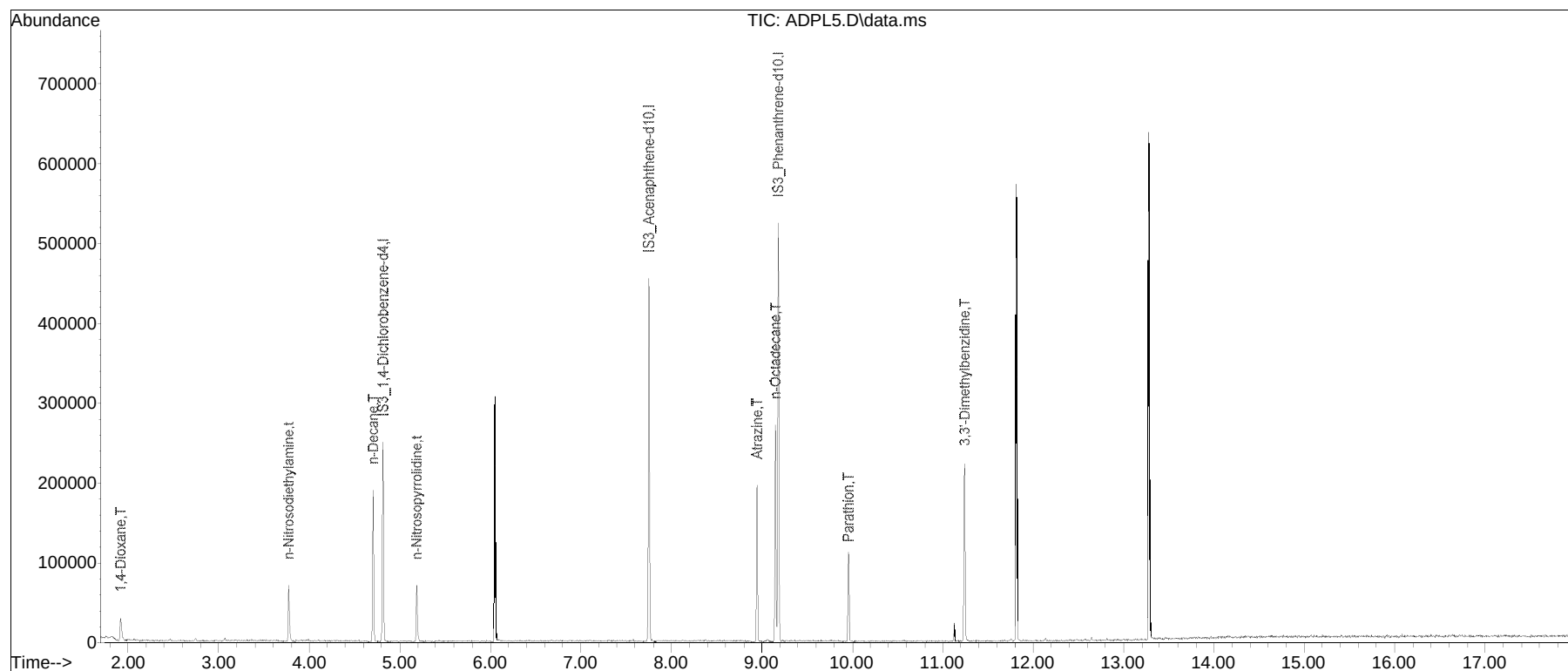
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ADPL5.D
 Acq On : 17 Apr 2025 2:50 am
 Operator : Dakota:HNY
 Sample : IL6,32,,ADPL2.5 Lot# 11554
 Misc : WG2055280
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Apr 17 15:23:30 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

Sub List : ADPL5.D\8270\Dakota\250416RVTICAL\AP9L6.D•



Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQ\Meth
Data File : ADPL5.D Operator : FS250416RVT_Dakota.m
Date Inj'd : 4/17/2025 2:50 am Instrument : Dakota:HNY
Sample : IL6,32,,ADPL2.5 Lot# 11554 Quant Date : Dakota
 : 4/17/2025 3:24 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ADPL4.D
 Acq On : 17 Apr 2025 3:13 am
 Operator : Dakota:HNY
 Sample : IL7,32,,ADPL1 Lot# 11555
 Misc : WG2055280
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Apr 17 15:23:20 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ADPical_REV3 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.817	152	37824	4.000	ug/ml	0.00
Standard Area 2 = 36126			Recovery =	104.70%		
88) IS3_Acenaphthene-d10	7.754	164	86153	4.000	ug/ml	0.00
Standard Area 2 = 87730			Recovery =	98.20%		
102) IS3_Phenanthrene-d10	9.184	188	193308	4.000	ug/ml	0.00
Standard Area 2 = 189656			Recovery =	101.93%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.920	88	4482	1.101	ug/ml#	76
34) n-Nitrosodiethylamine	3.772	102	3977	1.024	ug/ml#	18
35) n-Decane	4.705	57	12821	1.008	ug/ml#	27
36) n-Nitrosopyrrolidine	5.190	100	5127	1.046	ug/ml#	43
89) Atrazine	8.944	200	8773	0.962	ug/ml	96
103) n-Octadecane	9.153	57	19082	1.006	ug/ml#	1
104) Parathion	9.961	109	3614	1.192	ug/ml	91
105) 3,3'-Dimethylbenzidine	11.247	212	21842	1.227	ug/ml	97

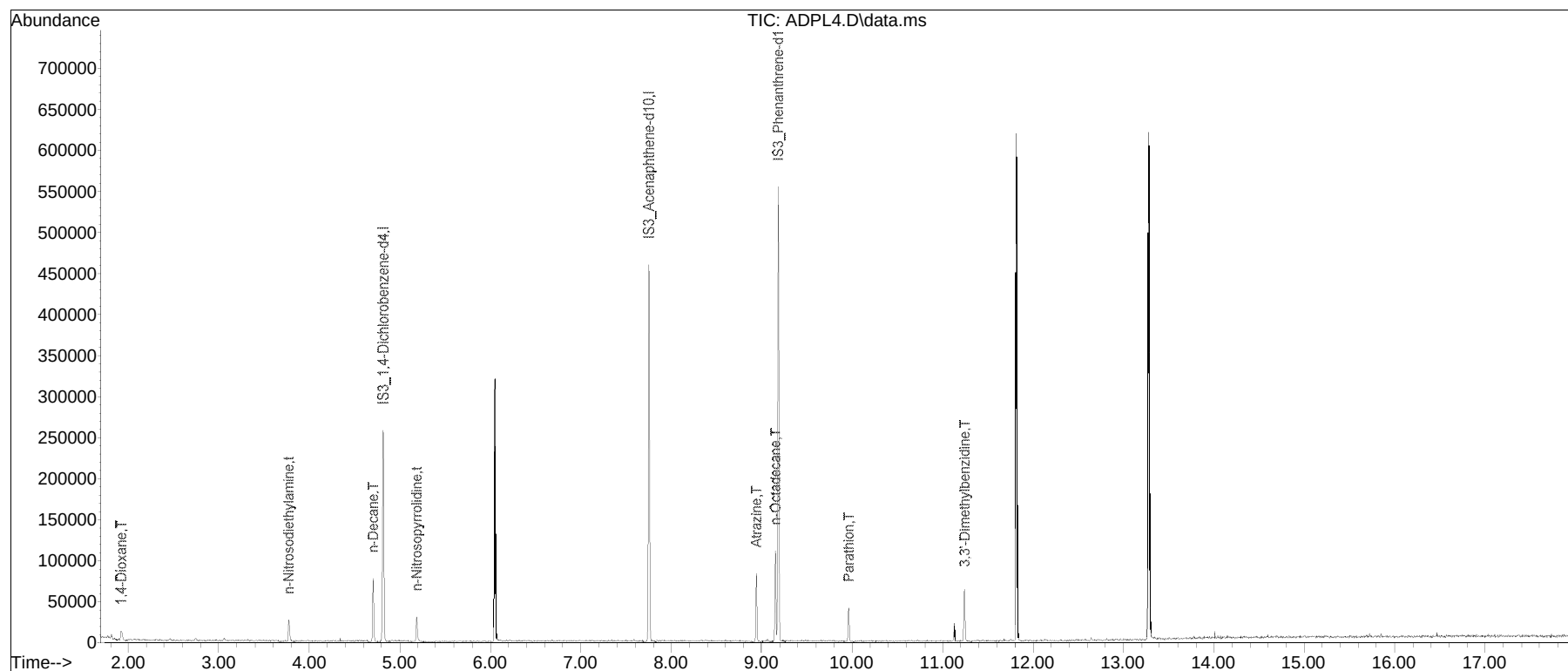
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ADPL4.D
 Acq On : 17 Apr 2025 3:13 am
 Operator : Dakota:HNY
 Sample : IL7,32,,ADPL1 Lot# 11555
 Misc : WG2055280
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Apr 17 15:23:20 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

Sub List : ADPL4.D\8270\Dakota\250416RVTICAL\AP9L6.D•



Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICOM\Method : FS250416RVT_Dakota.m
Data File : ADPL4.D Operator : Dakota:HNY
Date Inj'd : 4/17/2025 3:13 am Instrument : Dakota
Sample : IL7,32,,ADPL1 Lot# 11555 Quant Date : 4/17/2025 3:24 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ADPL3.D
 Acq On : 17 Apr 2025 3:35 am
 Operator : Dakota:HNY
 Sample : IL8,32,,ADPL0.5 Lot# 11556
 Misc : WG2055280
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: Apr 17 15:23:10 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ADPical_REV3 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.817	152	36542	4.000	ug/ml	0.00
Standard Area 2 = 36126			Recovery =	101.15%		
88) IS3_Acenaphthene-d10	7.754	164	82031	4.000	ug/ml	0.00
Standard Area 2 = 87730			Recovery =	93.50%		
102) IS3_Phenanthrene-d10	9.184	188	187811	4.000	ug/ml	0.00
Standard Area 2 = 189656			Recovery =	99.03%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.920	88	2426	0.617	ug/ml#	73
34) n-Nitrosodiethylamine	3.776	102	1964	0.524	ug/ml#	4
35) n-Decane	4.705	57	6699	0.545	ug/ml#	25
36) n-Nitrosopyrrolidine	5.193	100	2159	0.456	ug/ml#	16
89) Atrazine	8.944	200	4372	0.503	ug/ml	99
103) n-Octadecane	9.153	57	9502	0.516	ug/ml#	1
104) Parathion	9.961	109	1564	0.781	ug/ml#	82
105) 3,3'-Dimethylbenzidine	11.244	212	7721	0.939	ug/ml	98

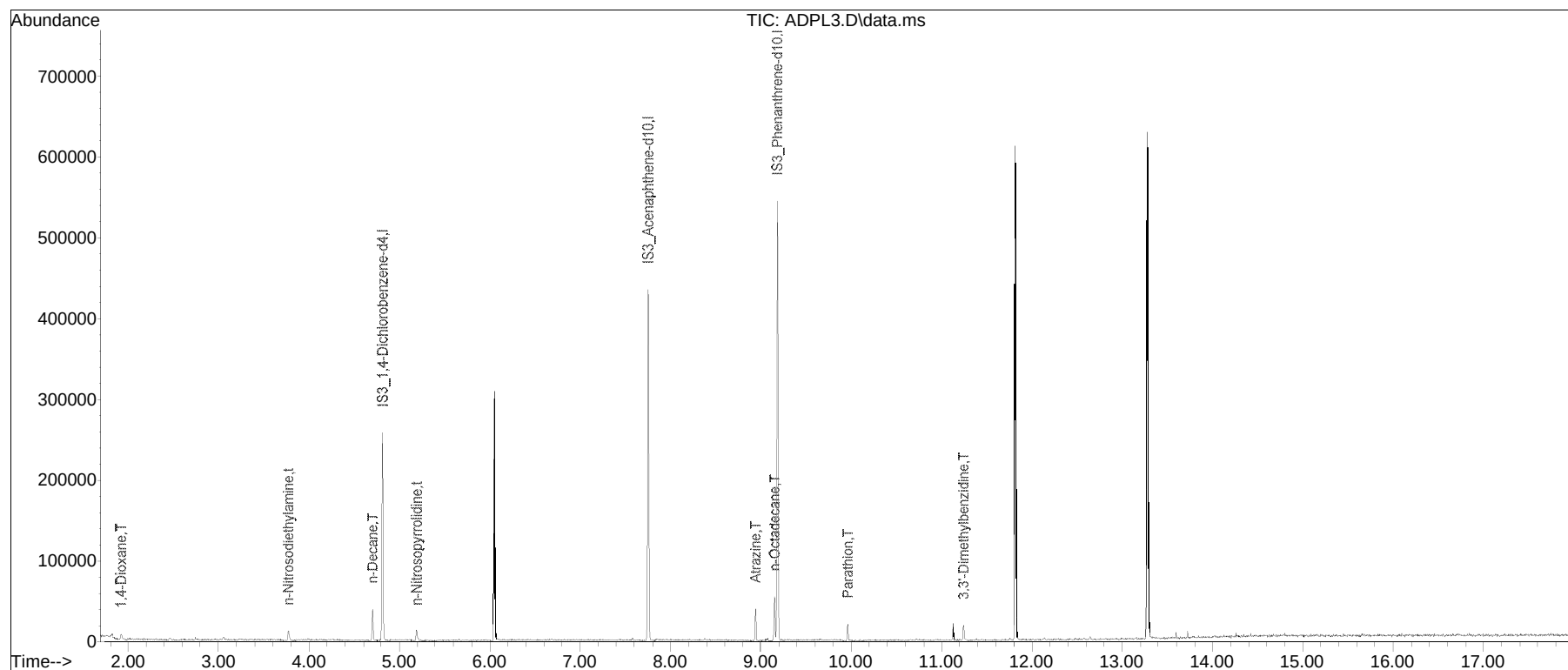
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ADPL3.D
 Acq On : 17 Apr 2025 3:35 am
 Operator : Dakota:HNY
 Sample : IL8,32,,ADPL0.5 Lot# 11556
 Misc : WG2055280
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: Apr 17 15:23:10 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

Sub List : ADPL3.D\8270\Dakota\250416RVTICAL\AP9L6.D•



Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQ\Meth
Data File : ADPL3.D Operator : FS250416RVT_Dakota.m
Date Inj'd : 4/17/2025 3:35 am Instrument : Dakota:HNY
Sample : IL8,32,,ADPL0.5 Lot# 11556 Quant Date : Dakota
 : 4/17/2025 3:24 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ADPL2.D
 Acq On : 17 Apr 2025 3:58 am
 Operator : Dakota:HNY
 Sample : IL9,32,,ADPL0.2 Lot# 11557
 Misc : WG2055280
 ALS Vial : 28 Sample Multiplier: 1

Quant Time: Apr 17 15:22:59 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ADPical_REV3 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.817	152	37822	4.000	ug/ml	0.00
Standard Area 2 = 36126			Recovery =	104.69%		
88) IS3_Acenaphthene-d10	7.754	164	89792	4.000	ug/ml	0.00
Standard Area 2 = 87730			Recovery =	102.35%		
102) IS3_Phenanthrene-d10	9.184	188	205678	4.000	ug/ml	0.00
Standard Area 2 = 189656			Recovery =	108.45%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.917	88	875M1	0.215	ug/ml	
34) n-Nitrosodiethylamine	3.782	102	812	0.209	ug/ml#	1
35) n-Decane	4.702	57	2703	0.213	ug/ml#	22
36) n-Nitrosopyrrolidine	5.196	100	1185	0.242	ug/ml#	62
89) Atrazine	8.944	200	1827	0.192	ug/ml	96
103) n-Octadecane	9.152	57	3375	0.167	ug/ml#	1
104) Parathion	9.961	109	478M2	0.542	ug/ml	
105) 3,3'-Dimethylbenzidine	11.244	212	184M2	0.778	ug/ml	

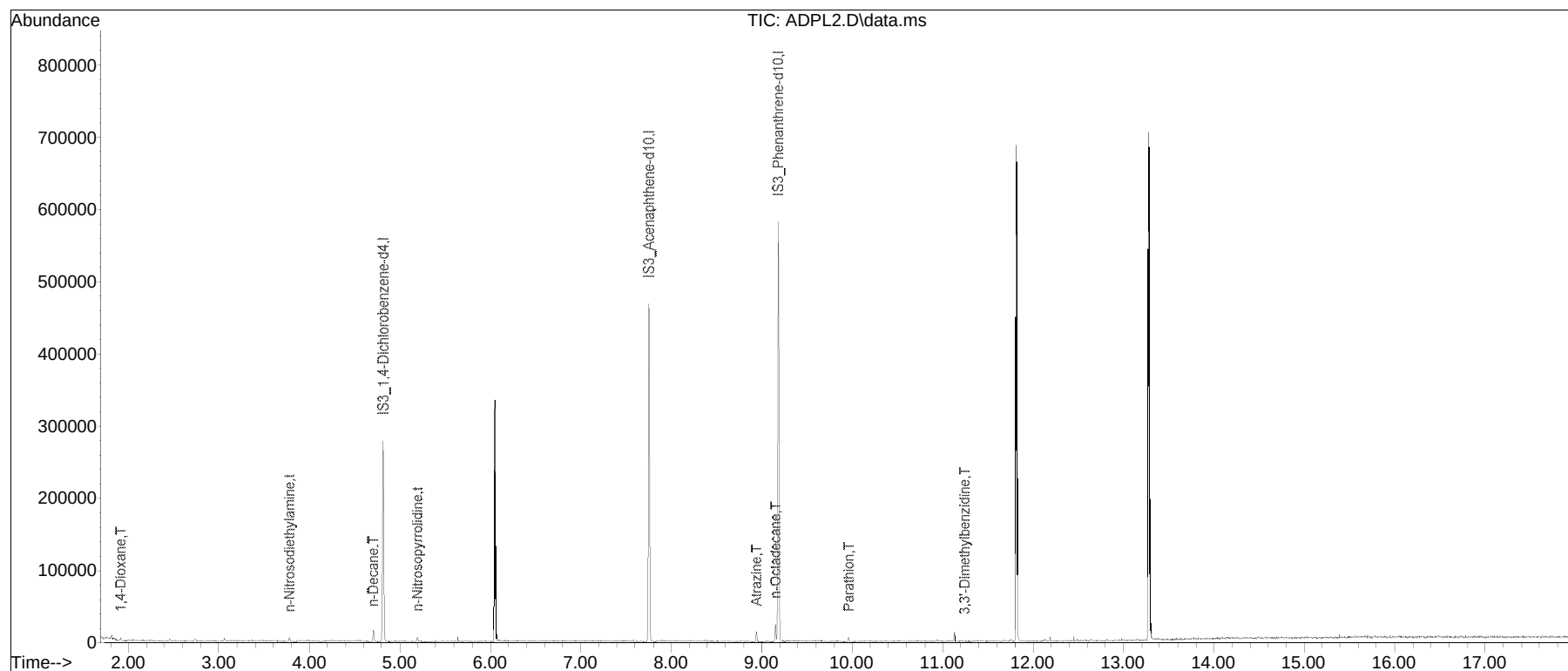
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ADPL2.D
 Acq On : 17 Apr 2025 3:58 am
 Operator : Dakota:HNY
 Sample : IL9,32,,ADPL0.2 Lot# 11557
 Misc : WG2055280
 ALS Vial : 28 Sample Multiplier: 1

Quant Time: Apr 17 15:22:59 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

Sub List : ADPL2.D\8270\Dakota\250416RVTICAL\AP9L6.D•

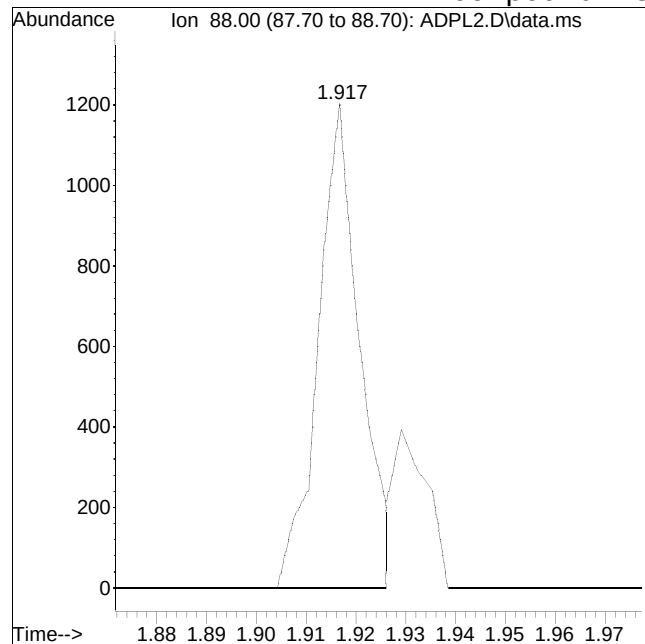


Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICOM
Data File : ADPL2.D
Date Inj'd : 4/17/2025 3:58 am
Sample : IL9,32,,ADPL0.2 Lot# 11557

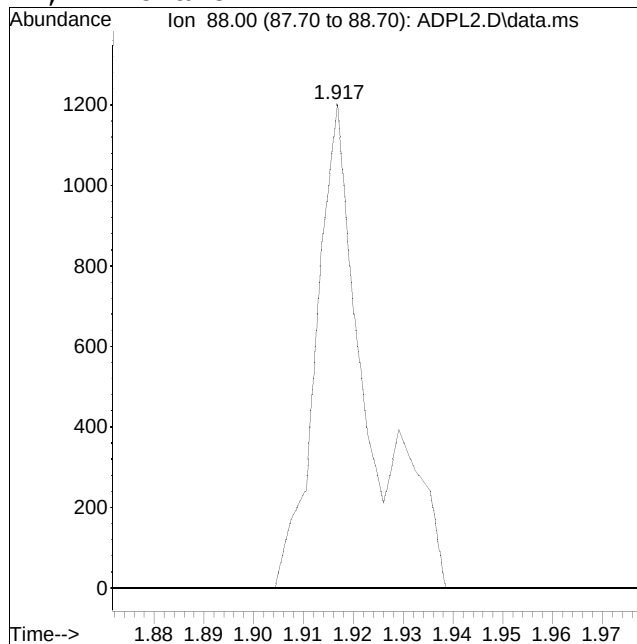
Method : FS250416RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 4/17/2025 3:23 pm

Compound #33: 1,4-Dioxane



Original Peak Response = 702

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

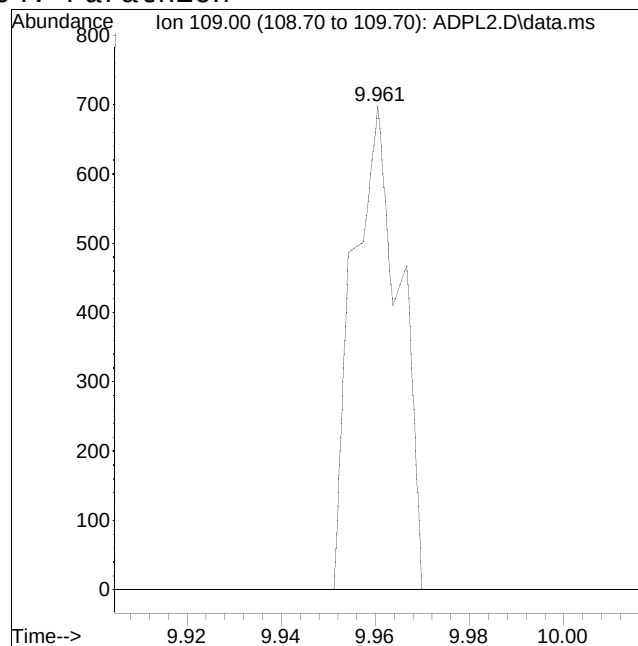
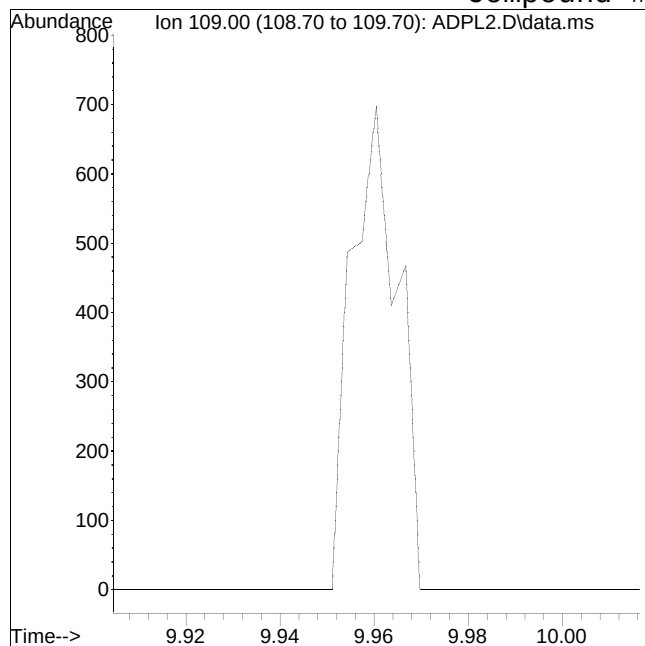


Manual Peak Response = 875 M1

Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTIC
Data File : ADPL2.D Operator : Dakota:HNY
Date Inj'd : 4/17/2025 3:58 am Instrument : Dakota
Sample : IL9,32,,ADPL0.2 Lot# 11557 Quant Date : 4/17/2025 3:23 pm

Compound #104: Parathion



Original Peak Response = 0

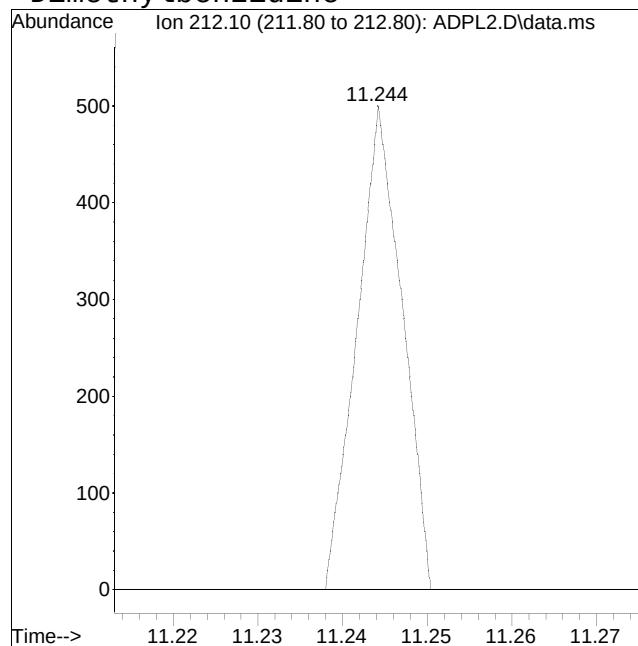
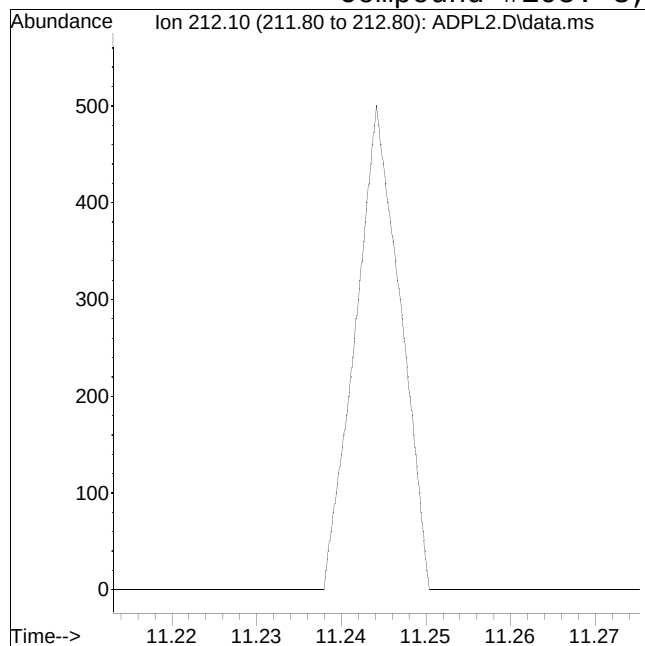
Manual Peak Response = 478 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQ11
Data File : ADPL2.D
Date Inj'd : 4/17/2025 3:58 am
Sample : IL9,32,,ADPL0.2 Lot# 11557
Method : FS250416RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 4/17/2025 3:23 pm

Compound #105: 3,3'-Dimethylbenzidine



Original Peak Response = 0

Manual Peak Response = 184 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ADPL1.D
 Acq On : 17 Apr 2025 4:21 am
 Operator : Dakota:HNY
 Sample : IL10,32,,ADPL0.1 Lot# 11558
 Misc : WG2055280
 ALS Vial : 29 Sample Multiplier: 1

Quant Time: Apr 17 15:22:48 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ADPical_REV3 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.817	152	37234	4.000	ug/ml	0.00
Standard Area 2 = 36126			Recovery =	103.07%		
88) IS3_Acenaphthene-d10	7.754	164	85272	4.000	ug/ml	0.00
Standard Area 2 = 87730			Recovery =	97.20%		
102) IS3_Phenanthrene-d10	9.184	188	195899	4.000	ug/ml	0.00
Standard Area 2 = 189656			Recovery =	103.29%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.917	88	310M2	0.077	ug/ml	
34) n-Nitrosodiethylamine	3.785	102	227M2	0.059	ug/ml	
35) n-Decane	4.708	57	1168	0.093	ug/ml#	3
36) n-Nitrosopyrrolidine	5.196	100	346M2	0.072	ug/ml	
89) Atrazine	8.947	200	748	0.083	ug/ml#	33
103) n-Octadecane	9.153	57	2086	0.109	ug/ml#	1
104) Parathion	9.961	109	349M2	0.521	ug/ml	
105) 3,3'-Dimethylbenzidine	0.000		0	N.D.		

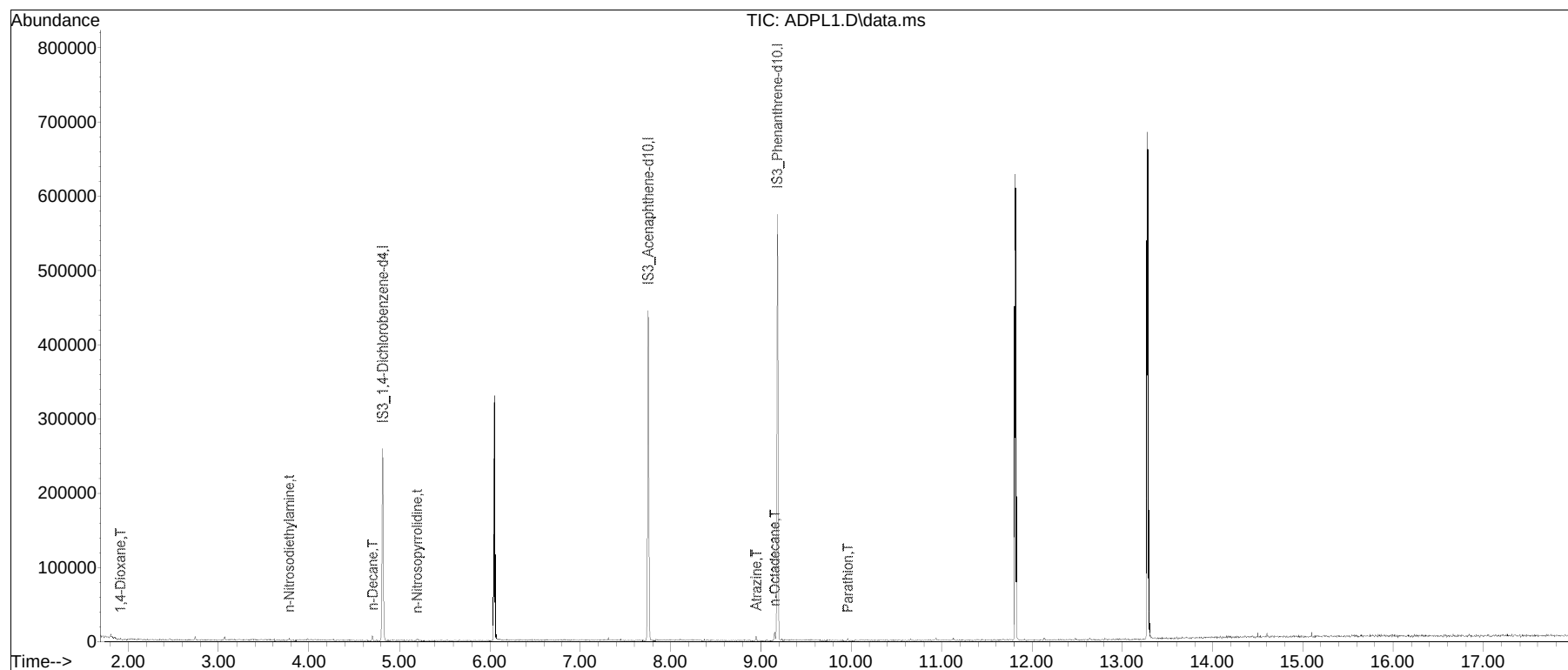
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ADPL1.D
 Acq On : 17 Apr 2025 4:21 am
 Operator : Dakota:HNY
 Sample : IL10,32,,ADPL0.1 Lot# 11558
 Misc : WG2055280
 ALS Vial : 29 Sample Multiplier: 1

Quant Time: Apr 17 15:22:48 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

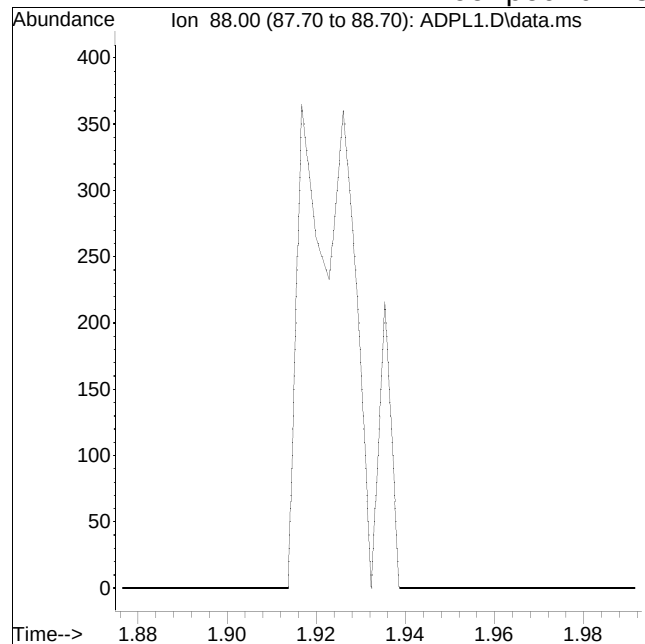
Sub List : ~~ADPL1.D~~ ~~8270~~ ~~Dakota~~ ~~250416RVTICAL~~ \AP9L6.D•



Manual Integration Report

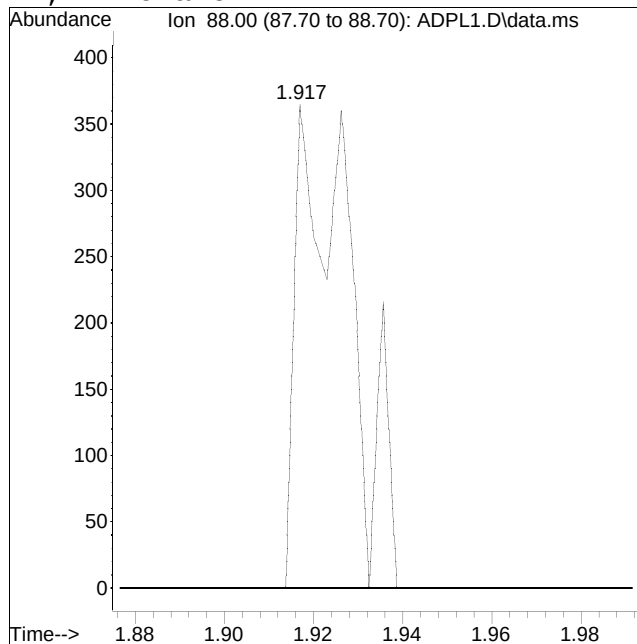
Data Path : I:\8270\Dakota\250416RVTICOM
Data File : ADPL1.D
Date Inj'd : 4/17/2025 4:21 am
Sample : IL10,32,,ADPL0.1 Lot# 11550
Method : FS250416RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 4/17/2025 3:23 pm

Compound #33: 1,4-Dioxane



Original Peak Response = 0

M2 = Peak not found by automatic integration algorithm.

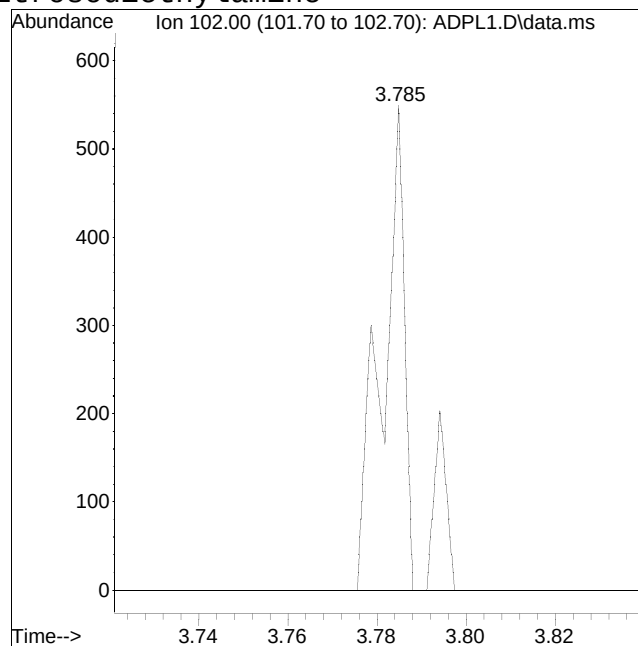
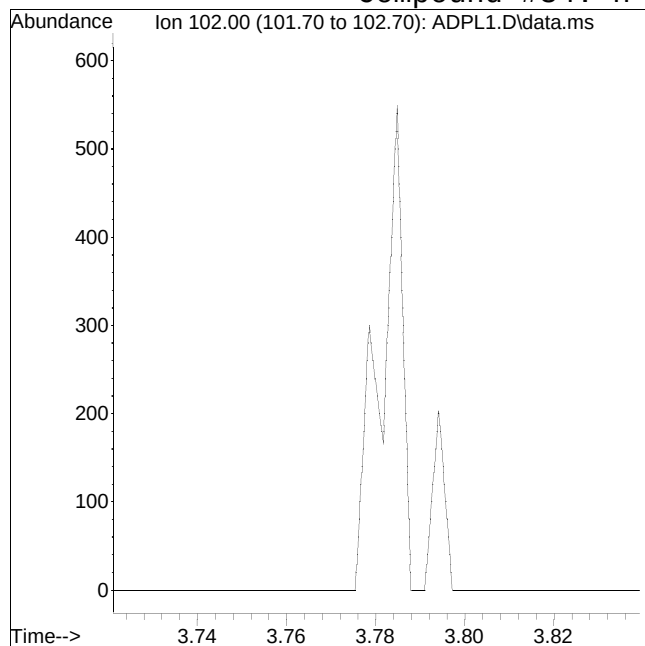


Manual Peak Response = 310 M2

Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQ1
Data File : ADPL1.D
Date Inj'd : 4/17/2025 4:21 am
Sample : IL10,32,,ADPL0.1 Lot# 11550
Method : FS250416RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 4/17/2025 3:23 pm

Compound #34: n-Nitrosodiethylamine



Original Peak Response = 0

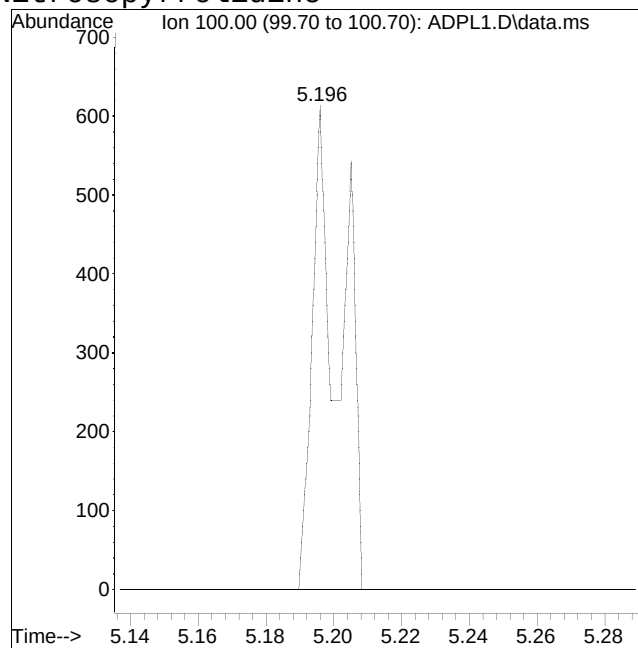
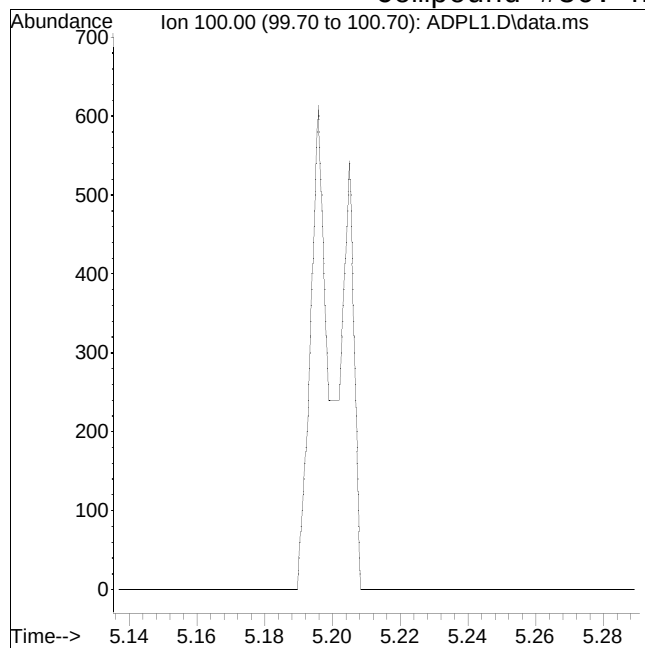
Manual Peak Response = 227 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQ1
Data File : ADPL1.D
Date Inj'd : 4/17/2025 4:21 am
Sample : IL10,32,,ADPL0.1 Lot# 11550
Method : FS250416RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 4/17/2025 3:23 pm

Compound #36: n-Nitrosopyrrolidine



Original Peak Response = 0

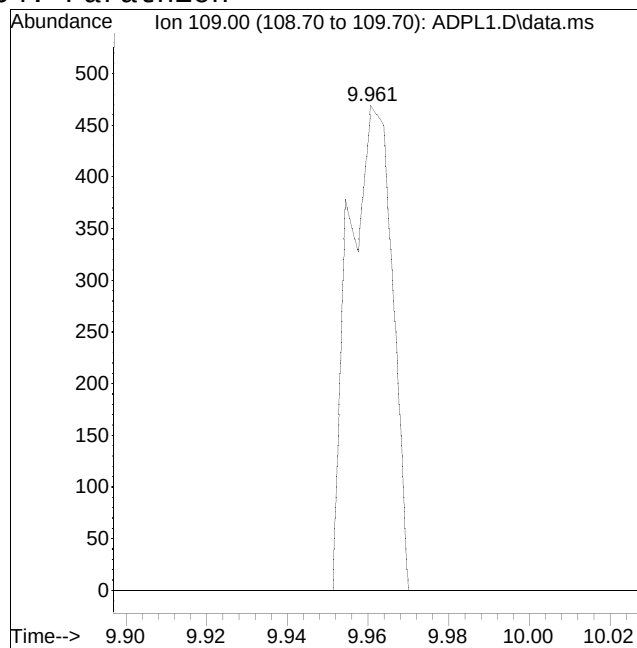
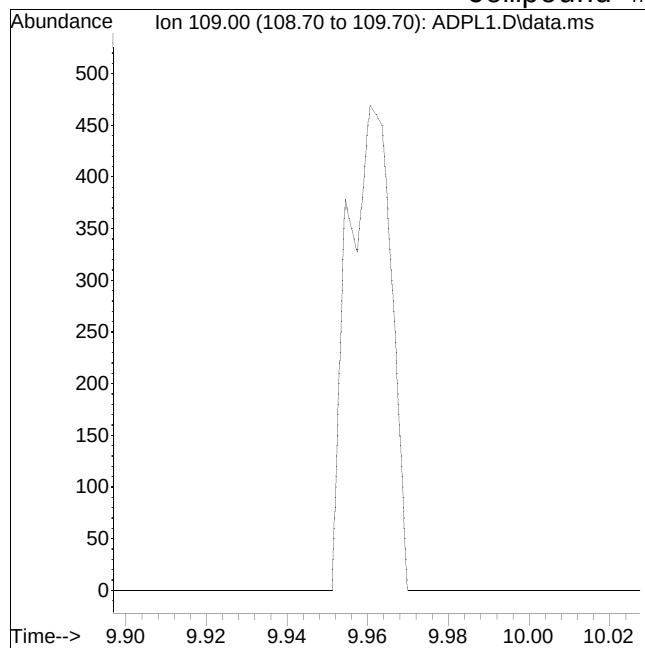
Manual Peak Response = 346 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\Dakota\250416RVTICQ1
Data File : ADPL1.D
Date Inj'd : 4/17/2025 4:21 am
Sample : IL10,32,,ADPL0.1 Lot# 11550
Method : FS250416RVT_Dakota.m
Operator : Dakota:HNY
Instrument : Dakota
Quant Date : 4/17/2025 3:23 pm

Compound #104: Parathion



Original Peak Response = 0

Manual Peak Response = 349 M2

M2 = Peak not found by automatic integration algorithm.

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ADPICV.D
 Acq On : 17 Apr 2025 4:43 am
 Operator : Dakota:HNY
 Sample : CQICV,32,,ADPICV Lot# 11561
 Misc : WG2055280
 ALS Vial : 30 Sample Multiplier: 1

Quant Time: Apr 17 15:22:38 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

32 I	IS3_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	99	0.00
33 T	1,4-Dioxane	0.431	0.395	8.4	95	0.00
34 t	n-Nitrosodiethylamine	0.411	0.424	-3.2	98	0.00
35 T	n-Decane	1.345	1.374	-2.2	104	0.00
36 t	n-Nitrosopyrrolidine	0.518	0.509	1.7	101	0.00
88 I	IS3_Acenaphthene-d10	1.000	1.000	0.0	98	0.00
89 T	Atrazine	0.423	0.420	0.7	103	0.00
102 I	IS3_Phenanthrene-d10	1.000	1.000	0.0	100	0.00
103 T	n-Octadecane	0.392	0.393	-0.3	102	0.00
104 T	Parathion	* 5.000	4.283	14.3	96	0.00
105 T	3,3'-Dimethylbenzidine	* 5.000	4.224	15.5	97	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ADPICV.D
 Acq On : 17 Apr 2025 4:43 am
 Operator : Dakota:HNY
 Sample : CQICV,32,,ADPICV Lot# 11561
 Misc : WG2055280
 ALS Vial : 30 Sample Multiplier: 1

Quant Time: Apr 17 15:22:38 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250416RVTICAL\ABNL6.D
 : 2 - I:\8270\Dakota\250416RVTICAL\ADPL6.D
 : 3 - I:\8270\Dakota\250416RVTICAL\AP9L6.D
 Sub List : ADPical_REV3 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.817	152	35868	4.000	ug/ml	0.00
Standard Area 2 = 36126			Recovery =	99.29%		
88) IS3_Acenaphthene-d10	7.754	164	85703	4.000	ug/ml	0.00
Standard Area 2 = 87730			Recovery =	97.69%		
102) IS3_Phenanthrene-d10	9.184	188	190200	4.000	ug/ml	0.00
Standard Area 2 = 189656			Recovery =	100.29%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.911	88	17709	4.587	ug/ml#	68
34) n-Nitrosodiethylamine	3.766	102	18990	5.157	ug/ml#	25
35) n-Decane	4.705	57	61595	5.107	ug/ml#	27
36) n-Nitrosopyrrolidine	5.184	100	22838	4.913	ug/ml#	40
89) Atrazine	8.947	200	45036	4.963	ug/ml	92
103) n-Octadecane	9.153	57	93408	5.006	ug/ml#	1
104) Parathion	9.964	109	18705	4.283	ug/ml	91
105) 3,3'-Dimethylbenzidine	11.247	212	163768	4.224	ug/ml	97

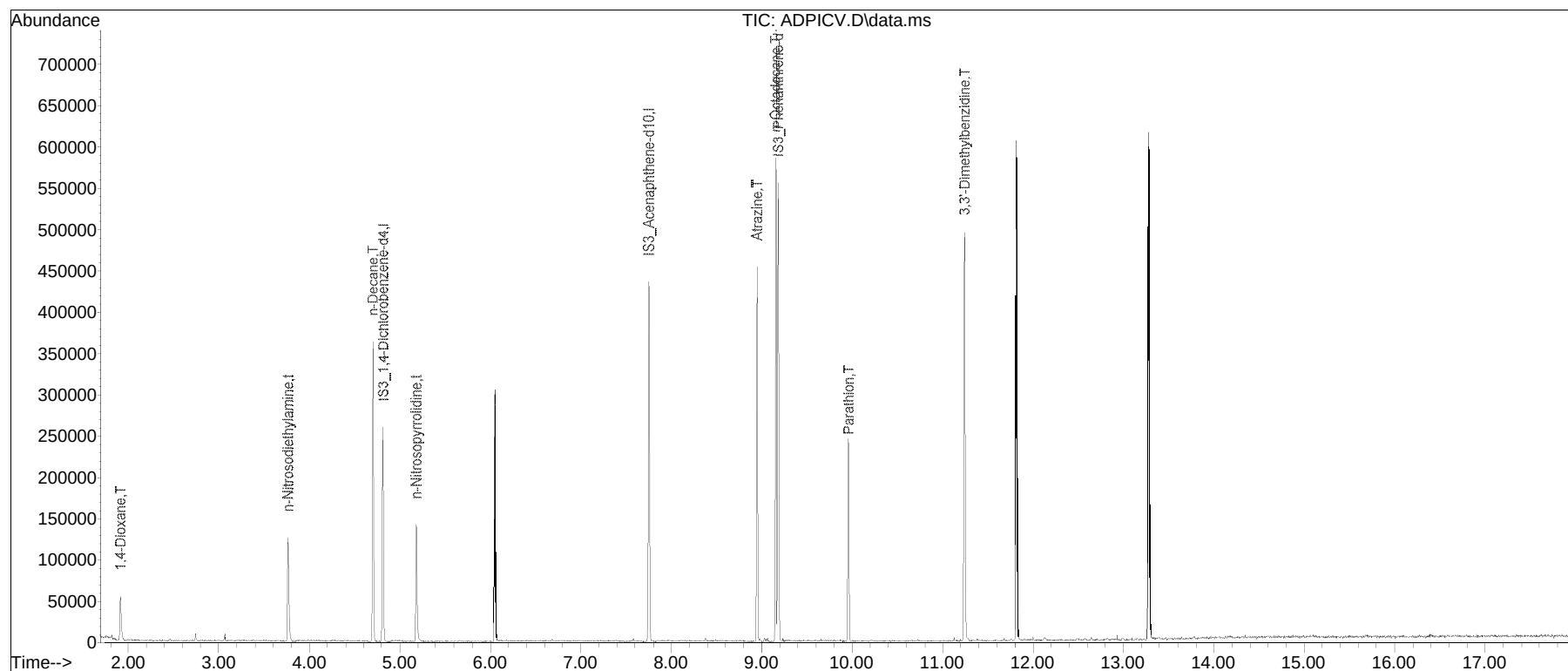
(#) = qualifier out of range (m) = manual integration (+) = signals summed

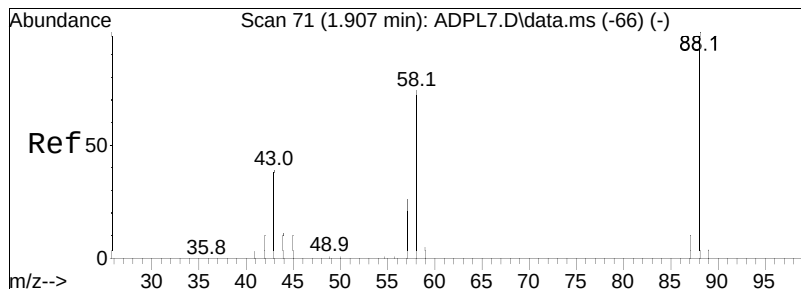
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250416RVTICAL\
 Data File : ADPICV.D
 Acq On : 17 Apr 2025 4:43 am
 Operator : Dakota:HNY
 Sample : CQICV,32,,ADPICV Lot# 11561
 Misc : WG2055280
 ALS Vial : 30 Sample Multiplier: 1

Quant Time: Apr 17 15:22:38 2025
 Quant Method : I:\8270\Dakota\250416RVTICAL\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Apr 17 14:28:59 2025
 Response via : Initial Calibration

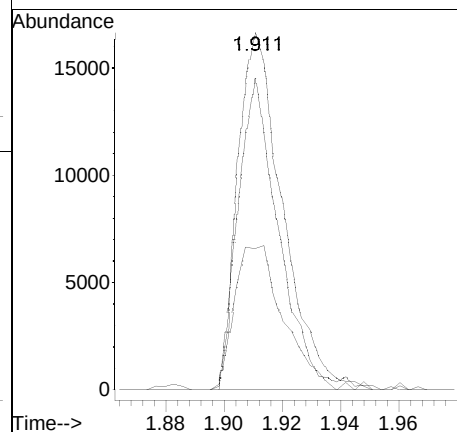
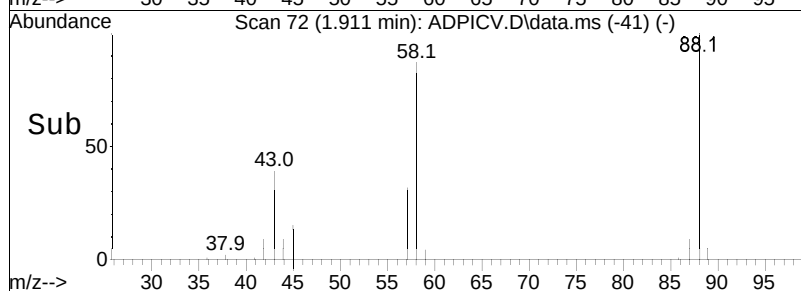
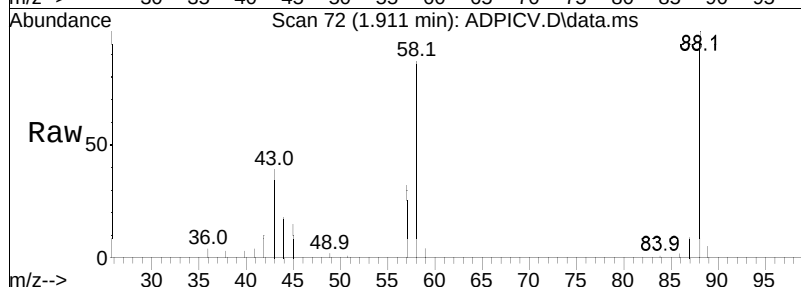
Sub List : ADPICV.D\8270\Dakota\250416RVTICAL\AP9L6.D•

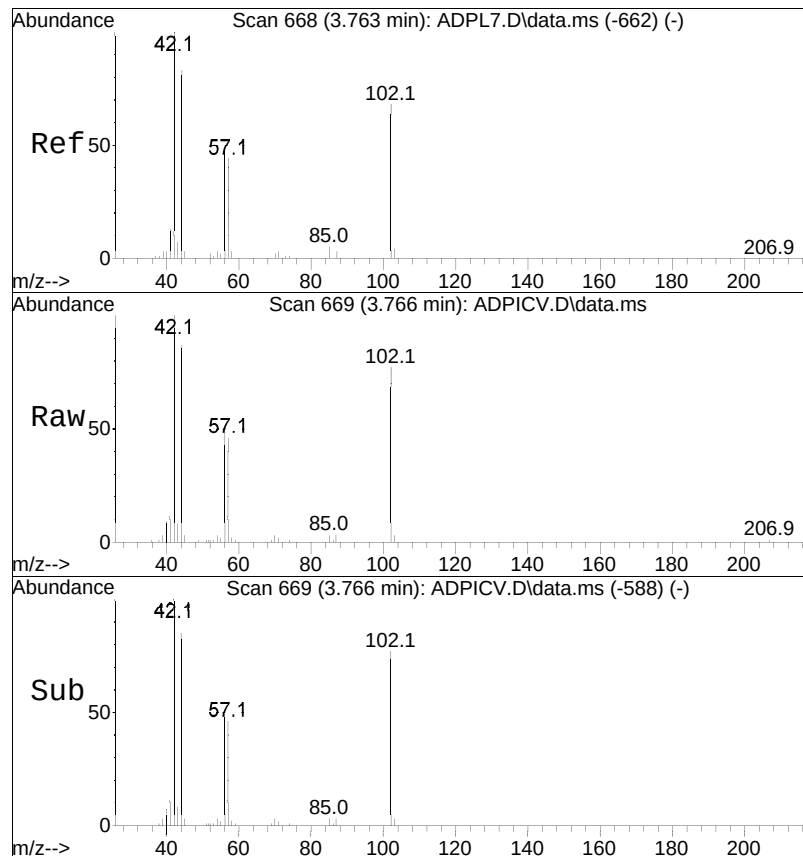




#33
 1,4-Dioxane
 Concen: 4.59 ug/ml
 RT: 1.911 min Scan# 72
 Delta R.T. -0.003 min
 Lab File: ADPICV.D
 Acq: 17 Apr 2025 4:43 am

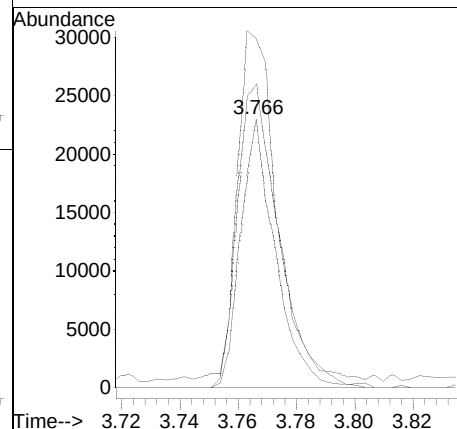
Tgt Ion:	88	Resp:	17709
Ion Ratio	Lower	Upper	
88	100		
58	80.1	44.8	67.2#
43	43.9	22.4	33.6#

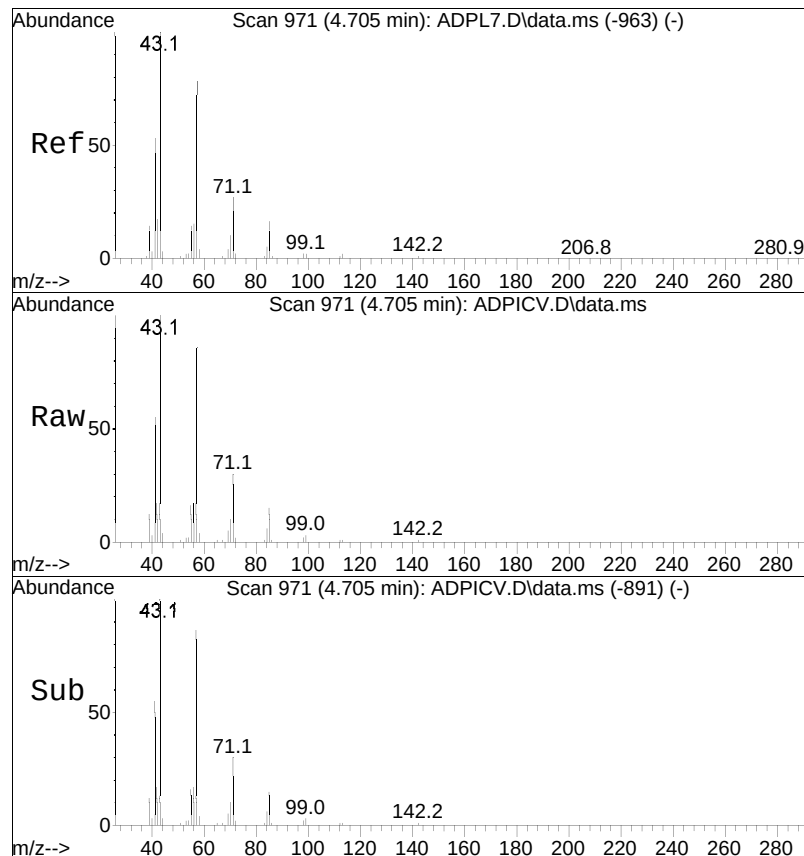




#34
 n-Nitrosodiethylamine
 Concen: 5.16 ug/ml
 RT: 3.766 min Scan# 669
 Delta R.T. 0.000 min
 Lab File: ADPICV.D
 Acq: 17 Apr 2025 4:43 am

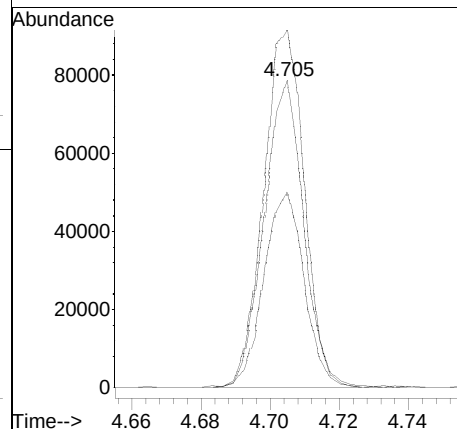
Tgt Ion	Ratio	Resp	Lower	Upper
102	100	18990		
42	154.8		67.6	101.4#
44	131.6		57.4	86.0#

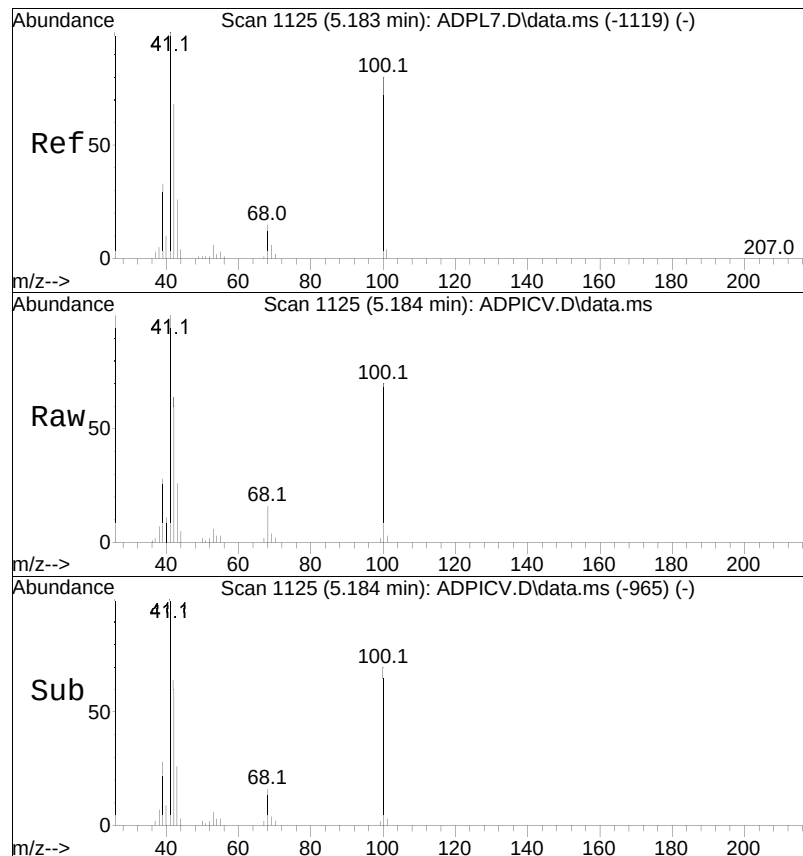




#35
 n-Decane
 Concen: 5.11 ug/ml
 RT: 4.705 min Scan# 971
 Delta R.T. -0.000 min
 Lab File: ADPICV.D
 Acq: 17 Apr 2025 4:43 am

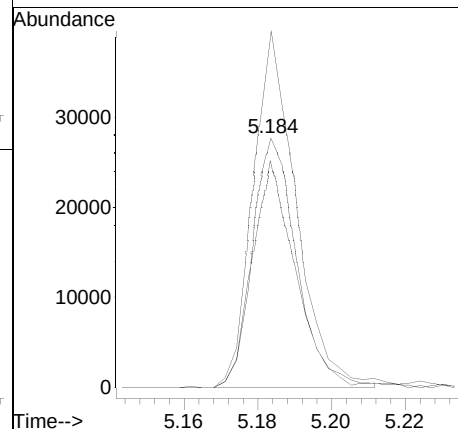
Tgt	Ion	Ratio	Resp	Lower	Upper
57	100		61595		
43	121.3	0.2		0.2#	
41	65.4	0.2		0.2#	

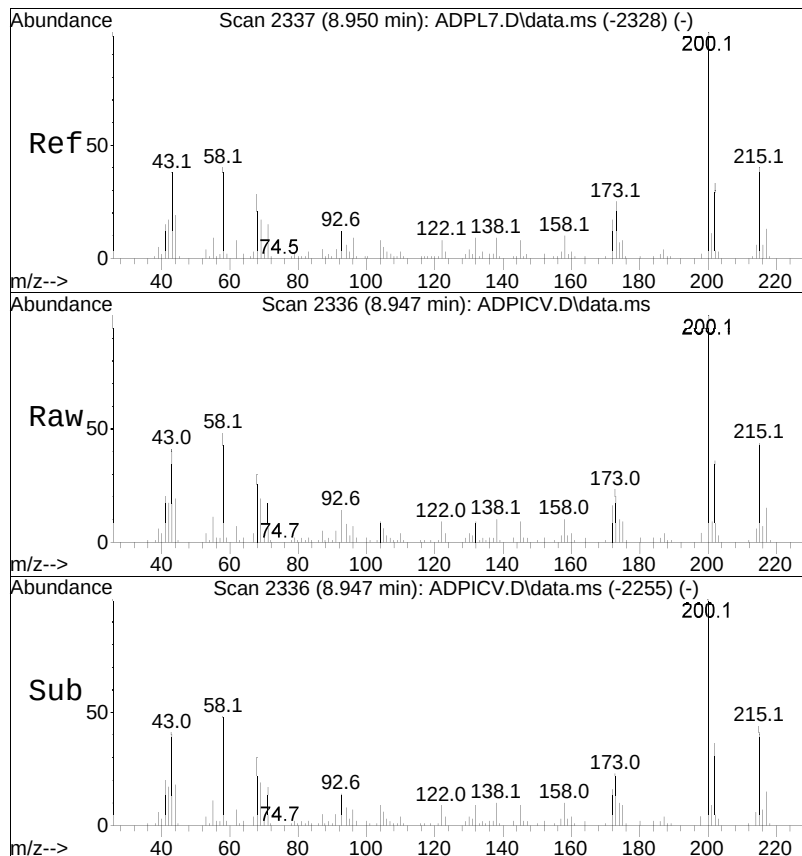




#36
 n-Nitrosopyrrolidine
 Concen: 4.91 ug/ml
 RT: 5.184 min Scan# 1125
 Delta R.T. -0.003 min
 Lab File: ADPICV.D
 Acq: 17 Apr 2025 4:43 am

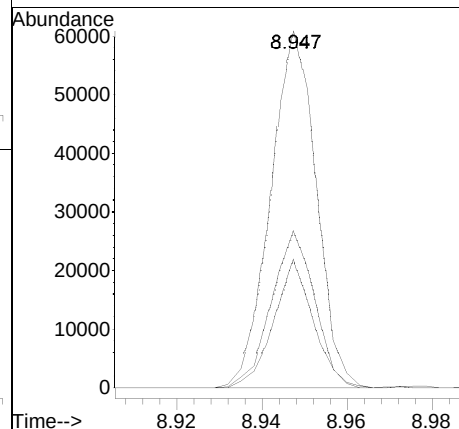
Tgt	Ion:100	Resp:	22838
Ion	Ratio	Lower	Upper
100	100		
41	141.4	63.0	94.4#
42	91.1	46.6	70.0#

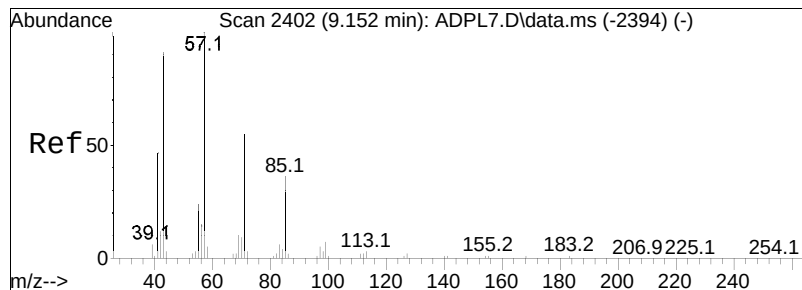




#89
 Atrazine
 Concen: 4.96 ug/ml
 RT: 8.947 min Scan# 2336
 Delta R.T. 0.000 min
 Lab File: ADPICV.D
 Acq: 17 Apr 2025 4:43 am

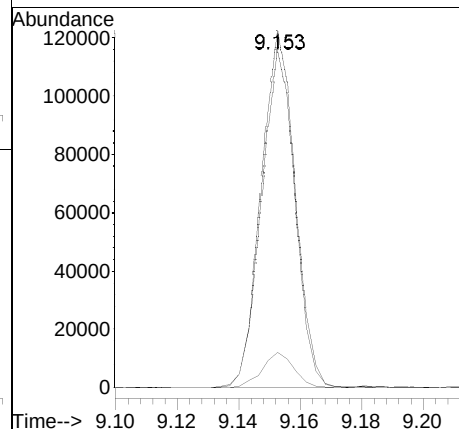
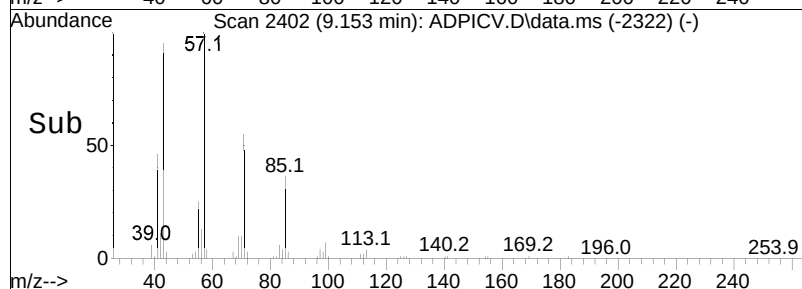
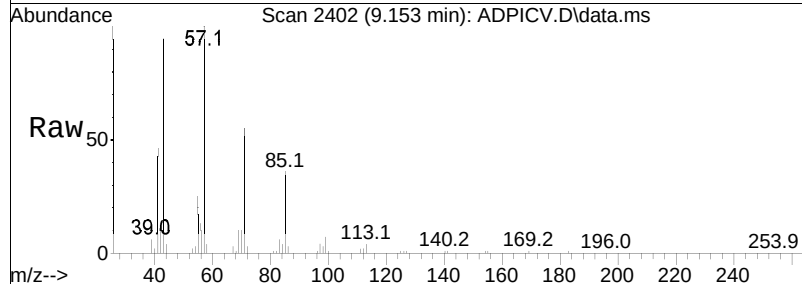
Tgt Ion	Ratio	Resp	Lower	Upper
200	100	45036		
202	31.1		25.8	38.6
215	41.8		40.2	60.4

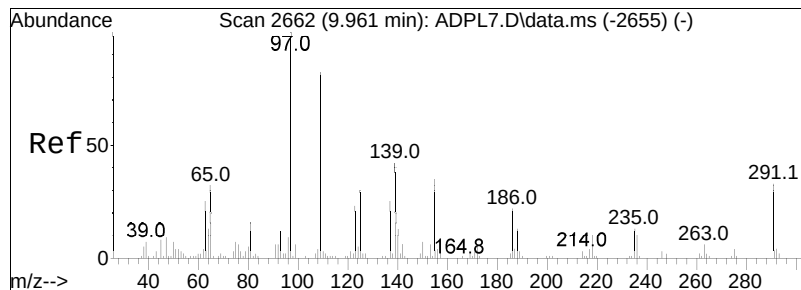




#103
 n-Octadecane
 Concen: 5.01 ug/ml
 RT: 9.153 min Scan# 2402
 Delta R.T. -0.000 min
 Lab File: ADPICV.D
 Acq: 17 Apr 2025 4:43 am

Tgt Ion:	57	Resp:	93408
Ion Ratio	Lower	Upper	
57	100		
43	93.4	9.0	13.6#
70	9.2	0.2	0.2#





#104

Parathion

Concen: 4.28 ug/ml

RT: 9.964 min Scan# 2663

Delta R.T. 0.003 min

Lab File: ADPICV.D

Acq: 17 Apr 2025 4:43 am

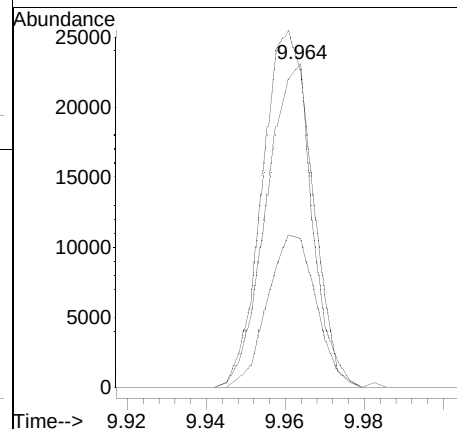
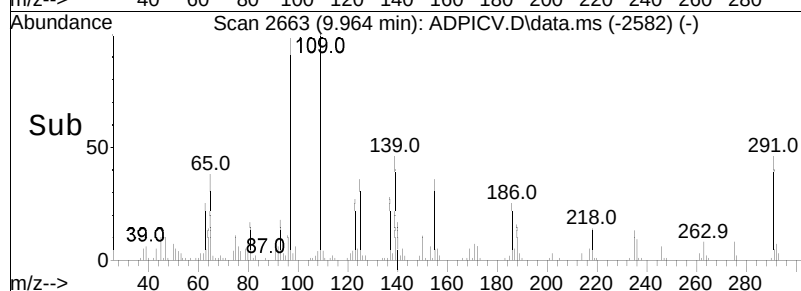
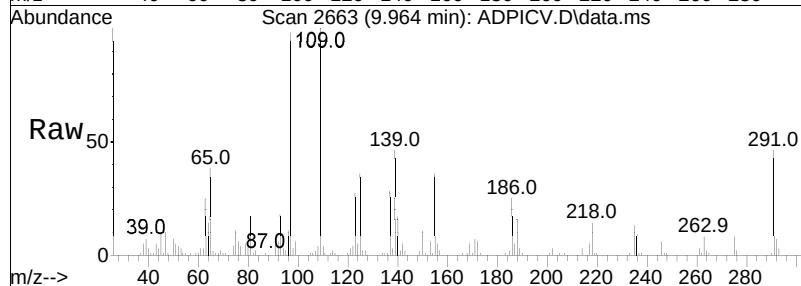
Tgt Ion:109 Resp: 18705

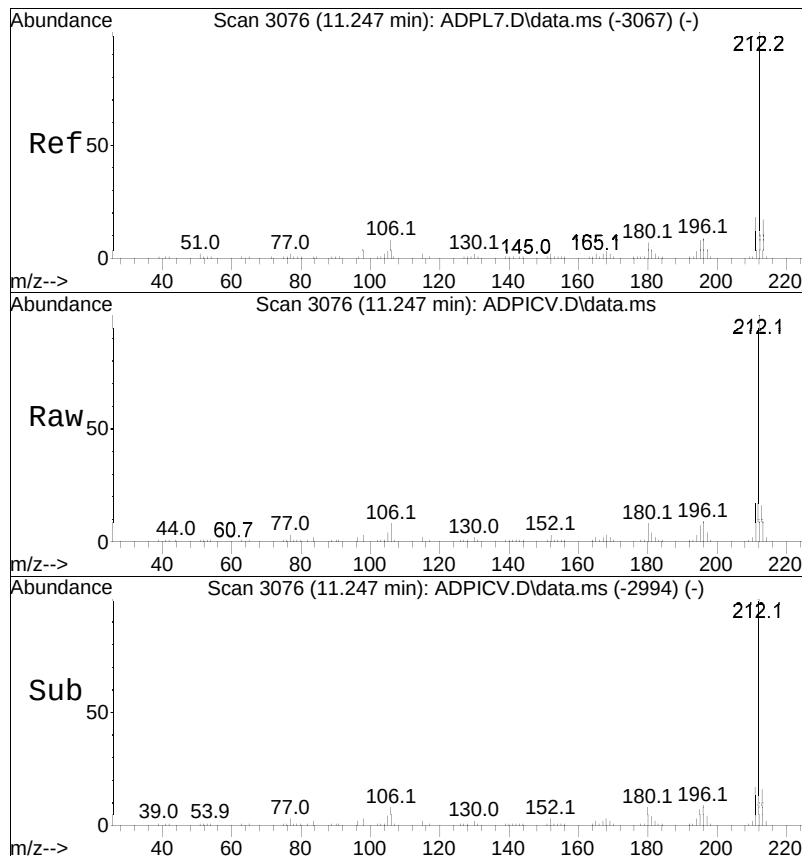
Ion Ratio Lower Upper

109 100

97 118.2 87.4 131.2

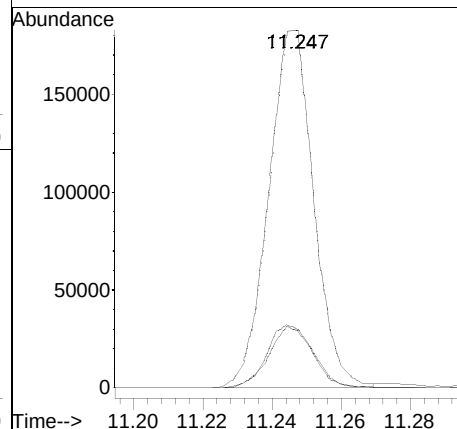
291 49.6 34.2 51.2





#105
 3,3'-Dimethylbenzidine
 Concen: 4.22 ug/ml
 RT: 11.247 min Scan# 3076
 Delta R.T. 0.003 min
 Lab File: ADPICV.D
 Acq: 17 Apr 2025 4:43 am

Tgt Ion	Ratio	Resp	Lower	Upper
212	100	163768		
211	18.3		12.9	19.3
213	17.0		13.2	19.8



Manual Integration Report

Data Path	: I:\8270\Dakota\250416RVTICM	Method	: FS250416RVT_Dakota.m
Data File	: ADPICV.D	Operator	: Dakota: HNY
Date Inj'd	: 4/17/2025 4:43 am	Instrument	: Dakota
Sample	: CQICV, 32,, ADPICV Lot# 1156	Quant Date	: 4/17/2025 3:23 pm

There are no manual integrations or false positives in this file.

Method Path : I:\8270\Dakota\250416RVTICAL\
 Method File : FS250416RVT_Dakota.m
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Thu Apr 17 14:28:59 2025

	COMPOUND	CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
39 T	Benzoic Acid	L	ug/ml	5.0	4.678	-6.4	2.50	2.666	6.6
68 T	2,4-Dinitrophenol	Q	ug/ml	5.0	4.719	-5.6	0.20	0.245	22.5
104 T	Parathion	Q	ug/ml	5.0	4.444	-11.1	1.00	1.192	19.2
105 T	3,3'-Dimethylbenzidine	L	ug/ml	5.0	4.356	-12.9	1.00	1.227	22.7

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
39 T	Benzoic Acid	Linear	0.999332	0.000000	0.264494	-0.0949313
68 T	2,4-Dinitrophenol	Quadratic	0.997754	0.006013	0.18906	-0.00952511
104 T	Parathion	Quadratic	0.997704	0.002350	0.0998433	-0.0112545
105 T	3,3'-Dimethylbenzidine	Linear	0.996196	0.000000	0.998269	-0.193183

Continuing Calibration

Calibration Verification Summary

Form 7

Semivolatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : DAKOTA
 Lab File ID : ABN0621
 Sample No : WG2081719-3
 Channel :

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Calibration Date : 06/21/25 06:27
 Init. Calib. Date(s) : 04/16/25 04/17/25
 Init. Calib. Times : 17:27 04:21

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	88	0
n-Nitrosodimethylamine	0.686	0.604	-	12	20	79	0
Pyridine	1.201	0.922	-	23.2*	20	71	0
2-Fluorophenol	1.027	0.88	-	14.3	20	76	0
Aniline	1.681	1.551	-	7.7	20	77	0
2-Chlorophenol	1.137	0.983	-	13.5	20	77	0
Phenol-d6	1.267	1.175	-	7.3	20	80	0
Phenol	1.542	1.374	-	10.9	20	78	0
Bis(2-chloroethyl)ether	0.996	0.896	-	10	20	82	0
1,3-Dichlorobenzene	1.509	1.358	-	10	20	84	0
1,4-Dichlorobenzene	1.555	1.35	-	13.2	20	81	0
1,2-Dichlorobenzene	1.445	1.34	-	7.3	20	85	0
Benzyl alcohol	1.005	0.909	-	9.6	20	82	0
Bis(2-chloroisopropyl)ethe	2.14	1.81	-	15.4	20	77	0
2-Methylphenol	1.014	0.956	-	5.7	20	83	0
Hexachloroethane	0.534	0.469	-	12.2	20	78	0
n-Nitrosodi-n-propylamine	0.907	0.831	-	8.4	20	81	0
3-Methylphenol/4-Methylphe	1.086	0.992	-	8.7	20	80	0
Nitrobenzene-d5	1.358	1.2	-	11.6	20	77	0
Nitrobenzene	1.329	1.258	-	5.3	20	84	0
Isophorone	2.441	2.126	-	12.9	20	79	0
2-Nitrophenol	0.587	0.596	-	-1.5	20	85	0
2,4-Dimethylphenol	1.169	1.099	-	6	20	84	0
Bis(2-chloroethoxy)methane	1.438	1.25	-	13.1	20	79	0
2,4-Dichlorophenol	1.213	1.237	-	-2	20	91	0
1,2,4-Trichlorobenzene	1.517	1.427	-	5.9	20	84	0
IS1_Naphthalene-d8	1	1	-	0	20	89	0
Naphthalene	1.025	0.894	-	12.8	20	83	0
Benzoic Acid	5	5.089	-	-1.8	20	100	0
4-Chloroaniline	0.14	0.128	-	8.6	20	85	0
Hexachlorobutadiene	0.253	0.249	-	1.6	20	92	0
p-Chloro-m-cresol	0.285	0.283	-	0.7	20	90	0
2-Methylnaphthalene	0.666	0.628	-	5.7	20	85	0
1-Methylnaphthalene	0.226	0.216	-	4.4	20	87	0
Hexachlorocyclopentadiene	0.341	0.3	-	12	20	82	0
2,4,6-Trichlorophenol	0.295	0.304	-	-3.1	20	92	0
2,4,5-Trichlorophenol	0.328	0.351	-	-7	20	98	0
2-Fluorobiphenyl	1.042	0.969	-	7	20	89	0
2-Chloronaphthalene	0.839	0.781	-	6.9	20	87	0
2-Nitroaniline	0.214	0.199	-	7	20	84	0
1,4-Dinitrobenzene	0.11	0.115	-	-4.5	20	92	0
1,3-Dinitrobenzene	0.135	0.129	-	4.4	20	83	0
Dimethyl phthalate	1.012	0.946	-	6.5	20	86	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : DAKOTA
 Lab File ID : ABN0621
 Sample No : WG2081719-3
 Channel :

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Calibration Date : 06/21/25 06:27
 Init. Calib. Date(s) : 04/16/25 04/17/25
 Init. Calib. Times : 17:27 04:21

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Acenaphthylene	1.327	1.23	-	7.3	20	84	0
2,6-Dinitrotoluene	0.202	0.197	-	2.5	20	83	0
1,2-Dinitrobenzene	0.084	0.078	-	7.1	20	85	0
IS1_Acenaphthene-d10	1	1	-	0	20	93	0
3-Nitroaniline	0.272	0.259	-	4.8	20	83	0
Acenaphthene	1.046	0.945	-	9.7	20	88	0
2,4-Dinitrophenol	5	3.432	-	31.4*	20	66	0
Dibenzofuran	1.874	1.655	-	11.7	20	88	0
2,4-Dinitrotoluene	0.4	0.385	-	3.8	20	87	0
4-Nitrophenol	0.247	0.262	-	-6.1	20	97	0
2,3,5,6-Tetrachlorophenol	0.404	0.442	-	-9.4	20	101	0
2,3,4,6-Tetrachlorophenol	0.397	0.444	-	-11.8	20	105	0
Diethyl phthalate	1.403	1.189	-	15.3	20	83	0
Fluorene	1.46	1.293	-	11.4	20	87	0
4-Chlorophenyl phenyl ethe	0.756	0.684	-	9.5	20	95	0
4-Nitroaniline	0.286	0.28	-	2.1	20	84	0
4,6-Dinitro-o-cresol	0.248	0.228	-	8.1	20	83	0
NDPA/DPA	1.275	1.171	-	8.2	20	90	0
Azobenzene	1.299	1.132	-	12.9	20	85	0
2,4,6-Tribromophenol	0.235	0.253	-	-7.7	20	98	0
4-Bromophenyl phenyl ether	0.478	0.458	-	4.2	20	95	0
Hexachlorobenzene	0.558	0.552	-	1.1	20	102	0
Pentachlorophenol	0.331	0.41	-	-23.9*	20	118	0
IS1_Phenanthrene-d10	1	1	-	0	20	103	0
Phenanthrene	1.15	0.985	-	14.3	20	93	0
Anthracene	1.127	0.978	-	13.2	20	92	0
Carbazole	1.06	0.934	-	11.9	20	92	0
Di-n-butylphthalate	1.1	0.892	-	18.9	20	84	0
Fluoranthene	1.355	1.291	-	4.7	20	100	0
Benzidine	0.817	0.777	-	4.9	20	97	0
Pyrene	1.466	1.383	-	5.7	20	99	0
4-Terphenyl-d14	1.069	0.991	-	7.3	20	99	0
Butyl benzyl phthalate	0.478	0.441	-	7.7	20	91	0
IS1_Chrysene-d12	1	1	-	0	20	114	0
Benzo(a)anthracene	1.313	1.144	-	12.9	20	102	0
3,3'-Dichlorobenzidine	0.464	0.431	-	7.1	20	105	0
Chrysene	1.293	1.112	-	14	20	106	0
Bis(2-ethylhexyl)phthalate	0.661	0.573	-	13.3	20	94	0
Di-n-octylphthalate	1.074	0.975	-	9.2	20	96	0
Benzo(b)fluoranthene	1.332	1.185	-	11	20	101	0
Benzo(k)fluoranthene	1.355	1.243	-	8.3	20	106	0
Benzo(a)pyrene	1.271	1.171	-	7.9	20	105	0
IS1_Perylene-d12	1	1	-	0	20	116	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : DAKOTA
 Lab File ID : ABN0621
 Sample No : WG2081719-3
 Channel :

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Calibration Date : 06/21/25 06:27
 Init. Calib. Date(s) : 04/16/25 04/17/25
 Init. Calib. Times : 17:27 04:21

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Indeno(1,2,3-cd)pyrene	1.242	1.07	-	13.8	20	99	0
Dibenzo(a,h)anthracene	1.197	1.055	-	11.9	20	106	0
Benzo(ghi)perylene	1.198	1.06	-	11.5	20	108	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : DAKOTA
 Lab File ID : AP90621
 Sample No : WG2081719-4
 Channel :

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Calibration Date : 06/21/25 06:49
 Init. Calib. Date(s) : 04/16/25 04/17/25
 Init. Calib. Times : 17:27 04:21

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	91	0
Benzaldehyde	0.839	0.838	-	0.1	20	88	0
Acetophenone	1.481	1.49	-	-0.6	20	89	0
m-Toluidine	1.49	1.335	-	10.4	20	82	0
2-Chloroaniline	1.308	1.33	-	-1.7	20	90	0
IS2_Naphthalene-d8	1	1	-	0	20	96	0
a-Terpineol	0.29	0.274	-	5.5	20	85	0
3-Chloroaniline	0.149	0.149	-	0	20	94	0
2,6-Dichlorophenol	0.329	0.378	-	-14.9	20	104	0
1-chloro-2-nitrobenzene	0.139	0.133	-	4.3	20	88	0
Caprolactam	0.169	0.168	-	0.6	20	100	0
1,2,4,5-Tetrachlorobenzene	0.444	0.487	-	-9.7	20	108	0
Biphenyl	0.95	0.95	-	0	20	94	0
IS2_Acenaphthene-d10	1	1	-	0	20	106	0
Dichloran	0.205	0.203	-	1	20	113	0
Pentachloronitrobenzene	0.184	0.198	-	-7.6	20	107	0
IS2_Phenanthrene-d10	1	1	-	0	20	116	0
Diphenamid	0.466	0.439	-	5.8	20	102	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Semivolatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : DAKOTA
 Lab File ID : ADP0621
 Sample No : WG2081719-5
 Channel :

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Calibration Date : 06/21/25 07:11
 Init. Calib. Date(s) : 04/16/25 04/17/25
 Init. Calib. Times : 17:27 04:21

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	85	0
1,4-Dioxane	0.431	0.437	-	-1.4	20	90	0
n-Decane	1.345	1.271	-	5.5	20	82	0
IS3_Acenaphthene-d10	1	1	-	0	20	90	0
Atrazine	0.423	0.469	-	-10.9	20	106	0
IS3_Phenanthrene-d10	1	1	-	0	20	105	0
n-Octadecane	0.392	0.333	-	15.1	20	90	0
Parathion	5	4.287	-	14.3	20	100	0
3,3'-Dimethylbenzidine	5	3.685	-	26.3*	20	85	0

* Value outside of QC limits.



Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\250621RVT\
 Data File : ABN0621.D
 Acq On : 21 Jun 2025 6:27 am
 Operator : Dakota:imk
 Sample : WG2081719-3,32,,ABN 11297 gmr0620A
 Misc : WG2081719,,ical22203
 ALS Vial : 96 Sample Multiplier: 1

Quant Time: Jun 21 07:27:28 2025
 Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sat Jun 21 07:28:13 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	IS1_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	88	0.00
2 t	n-Nitrosodimethylamine	0.686	0.604	12.0	79	0.00
3 t	Pyridine	1.201	0.922	23.2#	71	0.00
4 S	2-Fluorophenol	1.027	0.880	14.3	76	0.00
5 T	Aniline	1.681	1.551	7.7	77	0.00
6 t	2-Chlorophenol	1.137	0.983	13.5	77	0.00
7 S	Phenol-d6	1.267	1.175	7.3	80	0.00
8 T	Phenol	1.542	1.374	10.9	78	0.00
9 T	Bis(2-chloroethyl)ether	0.996	0.896	10.0	82	0.00
10 T	1,3-Dichlorobenzene	1.509	1.358	10.0	84	0.00
11 T	1,4-Dichlorobenzene	1.555	1.350	13.2	81	0.00
12 T	1,2-Dichlorobenzene	1.445	1.340	7.3	85	0.00
13 t	Benzyl alcohol	1.005	0.909	9.6	82	0.00
14 T	Bis(2-chloroisopropyl)ether	2.140	1.810	15.4	77	0.00
15 T	2-Methylphenol	1.014	0.956	5.7	83	0.00
16 T	Hexachloroethane	0.534	0.469	12.2	78	0.00
17 T	n-Nitrosodi-n-propylamine	0.907	0.831	8.4	81	0.00
18 T	3-Methylphenol/4-Methylphen	1.086	0.992	8.7	80	0.00
19 S	Nitrobenzene-d5	1.358	1.200	11.6	77	0.00
20 T	Nitrobenzene	1.329	1.258	5.3	84	0.00
21 T	Isophorone	2.441	2.126	12.9	79	0.00
22 T	2-Nitrophenol	0.587	0.596	-1.5	85	0.00
23 T	2,4-Dimethylphenol	1.169	1.099	6.0	84	0.00
24 T	Bis(2-chloroethoxy)methane	1.438	1.250	13.1	79	0.00
25 T	2,4-Dichlorophenol	1.213	1.237	-2.0	91	0.00
26 T	1,2,4-Trichlorobenzene	1.517	1.427	5.9	84	0.00
37 I	IS1_Naphthalene-d8	1.000	1.000	0.0	89	0.00
38 T	Naphthalene	1.025	0.894	12.8	83	0.00
39 T	Benzoic Acid	* 5.000	5.089	-1.8	100	0.00
40 T	4-Chloroaniline	0.140	0.128	8.6	85	0.00
41 T	Hexachlorobutadiene	0.253	0.249	1.6	92	0.00
42 T	p-Chloro-m-cresol	0.285	0.283	0.7	90	0.00
43 T	2-Methylnaphthalene	0.666	0.628	5.7	85	0.00
44 T	1-Methylnaphthalene	0.226	0.216	4.4	87	0.00
45 T	Hexachlorocyclopentadiene	0.341	0.300	12.0	82	0.00
46 T	2,4,6-Trichlorophenol	0.295	0.304	-3.1	92	0.00
47 T	2,4,5-Trichlorophenol	0.328	0.351	-7.0	98	0.00
48 S	2-Fluorobiphenyl	1.042	0.969	7.0	89	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\250621RVT\
 Data File : ABN0621.D
 Acq On : 21 Jun 2025 6:27 am
 Operator : Dakota:imk
 Sample : WG2081719-3,32,,ABN 11297 gmr0620A
 Misc : WG2081719,,ical22203
 ALS Vial : 96 Sample Multiplier: 1

Quant Time: Jun 21 07:27:28 2025
 Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sat Jun 21 07:28:13 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	2-Chloronaphthalene	0.839	0.781	6.9	87	0.00
50 T	2-Nitroaniline	0.214	0.199	7.0	84	0.00
51 T	1,4-Dinitrobenzene	0.110	0.115	-4.5	92	0.00
52 T	1,3-Dinitrobenzene	0.135	0.129	4.4	83	0.00
53 T	Dimethyl phthalate	1.012	0.946	6.5	86	0.00
54 T	Acenaphthylene	1.327	1.230	7.3	84	0.00
55 T	2,6-Dinitrotoluene	0.202	0.197	2.5	83	0.00
56 T	1,2-Dinitrobenzene	0.084	0.078	7.1	85	0.00
65 I	IS1_Acenaphthene-d10	1.000	1.000	0.0	93	0.00
66 T	3-Nitroaniline	0.272	0.259	4.8	83	0.00
67 T	Acenaphthene	1.046	0.945	9.7	88	0.00
68 T	2,4-Dinitrophenol	* 5.000	3.432	31.4#	66	0.00
69 T	Dibenzofuran	1.874	1.655	11.7	88	0.00
70 T	2,4-Dinitrotoluene	0.400	0.385	3.8	87	0.00
71 T	4-Nitrophenol	0.247	0.262	-6.1	97	0.00
72 T	2,3,5,6-Tetrachlorophenol	0.404	0.442	-9.4	101	0.00
73 T	2,3,4,6-Tetrachlorophenol	0.397	0.444	-11.8	105	0.00
74 T	Diethyl phthalate	1.403	1.189	15.3	83	0.00
75 T	Fluorene	1.460	1.293	11.4	87	0.00
76 T	4-Chlorophenyl phenyl ether	0.756	0.684	9.5	95	0.00
77 T	4-Nitroaniline	0.286	0.280	2.1	84	0.00
78 T	4,6-Dinitro-o-cresol	0.248	0.228	8.1	83	0.00
79 T	NDPA/DPA	1.275	1.171	8.2	90	0.00
80 T	Azobenzene	1.299	1.132	12.9	85	0.00
81 S	2,4,6-Tribromophenol	0.235	0.253	-7.7	98	0.00
82 T	4-Bromophenyl phenyl ether	0.478	0.458	4.2	95	0.00
83 T	Hexachlorobenzene	0.558	0.552	1.1	102	0.00
84 T	Pentachlorophenol	0.331	0.410	-23.9#	118	0.00
90 I	IS1_Phenanthrene-d10	1.000	1.000	0.0	103	0.00
91 T	Phenanthrene	1.150	0.985	14.3	93	0.00
92 T	Anthracene	1.127	0.978	13.2	92	0.00
93 T	Carbazole	1.060	0.934	11.9	92	0.00
94 T	Di-n-butylphthalate	1.100	0.892	18.9	84	0.00
95 T	Fluoranthene	1.355	1.291	4.7	100	0.00
96 T	Benzidine	0.817	0.777	4.9	97	0.00
97 T	Pyrene	1.466	1.383	5.7	99	0.00
98 S	4-Terphenyl-d14	1.069	0.991	7.3	99	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\250621RVT\
 Data File : ABN0621.D
 Acq On : 21 Jun 2025 6:27 am
 Operator : Dakota:imk
 Sample : WG2081719-3,32,,ABN 11297 gmr0620A
 Misc : WG2081719,,ical22203
 ALS Vial : 96 Sample Multiplier: 1

Quant Time: Jun 21 07:27:28 2025
 Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sat Jun 21 07:28:13 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
99 T	Butyl benzyl phthalate	0.478	0.441	7.7	91	0.00
106 I	IS1_Chrysene-d12	1.000	1.000	0.0	114	0.00
107 T	Benzo(a)anthracene	1.313	1.144	12.9	102	0.00
108 T	3,3'-Dichlorobenzidine	0.464	0.431	7.1	105	0.00
109 T	Chrysene	1.293	1.112	14.0	106	0.00
110 T	Bis(2-ethylhexyl)phthalate	0.661	0.573	13.3	94	0.00
111 T	Di-n-octylphthalate	1.074	0.975	9.2	96	0.00
112 T	Benzo(b)fluoranthene	1.332	1.185	11.0	101	0.00
113 T	Benzo(k)fluoranthene	1.355	1.243	8.3	106	0.00
114 T	Benzo(a)pyrene	1.271	1.171	7.9	105	0.00
115 I	IS1_Perylene-d12	1.000	1.000	0.0	116	0.00
116 T	Indeno(1,2,3-cd)pyrene	1.242	1.070	13.8	99	0.00
117 T	Dibenzo(a,h)anthracene	1.197	1.055	11.9	106	0.00
118 T	Benzo(ghi)perylene	1.198	1.060	11.5	108	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250621RVT\
 Data File : ABN0621.D
 Acq On : 21 Jun 2025 6:27 am
 Operator : Dakota:imk
 Sample : WG2081719-3,32,,ABN 11297 gmr0620A
 Misc : WG2081719,,ical22203
 ALS Vial : 96 Sample Multiplier: 1

Quant Time: Jun 21 07:27:28 2025
 Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sat Jun 21 07:28:13 2025
 Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.654	152	34284	4.000	ug/ml	0.00
37) IS1_Naphthalene-d8	5.885	136	122540	4.000	ug/ml	# 0.00
65) IS1_Acenaphthene-d10	7.585	164	91691	4.000	ug/ml	0.00
90) IS1_Phenanthrene-d10	9.012	188	216771	4.000	ug/ml	0.00
106) IS1_Chrysene-d12	11.629	240	275522	4.000	ug/ml	# 0.00
115) IS1_Perylene-d12	13.083	264	328421	4.000	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	3.380	112	37728	4.286	ug/ml	0.00
Spiked Amount	2.000	Range 15 - 110	Recovery	=	214.30%#	
7) Phenol-d6	4.334	99	50371	4.640	ug/ml	0.00
Spiked Amount	2.000	Range 15 - 110	Recovery	=	232.00%#	
19) Nitrobenzene-d5	5.192	82	51418	4.418	ug/ml	0.00
Spiked Amount	1.000	Range 30 - 130	Recovery	=	441.80%#	
48) 2-Fluorobiphenyl	6.954	172	148399	4.649	ug/ml	0.00
Spiked Amount	1.000	Range 30 - 130	Recovery	=	464.90%#	
81) 2,4,6-Tribromophenol	8.347	330	29050	5.381	ug/ml	0.00
Spiked Amount	2.000	Range 15 - 110	Recovery	=	269.05%#	
98) 4-Terphenyl-d14	10.585	244	268599	4.636	ug/ml	0.00
Spiked Amount	1.000	Range 30 - 130	Recovery	=	463.60%#	
Target Compounds						
						Qvalue
2) n-Nitrosodimethylamine	1.981	74	25883	4.405	ug/ml#	96
3) Pyridine	2.028	79	39516M1	3.839	ug/ml	
5) Aniline	4.334	93	66457	4.613	ug/ml#	41
6) 2-Chlorophenol	4.449	128	42142	4.325	ug/ml	94
8) Phenol	4.347	94	58862	4.452	ug/ml#	41
9) Bis(2-chloroethyl)ether	4.418	93	38419	4.502	ug/ml	95
10) 1,3-Dichlorobenzene	4.595	146	58186	4.500	ug/ml	95
11) 1,4-Dichlorobenzene	4.670	146	57855	4.340	ug/ml	94
12) 1,2-Dichlorobenzene	4.816	146	57409	4.635	ug/ml	91
13) Benzyl alcohol	4.803	79	38938	4.522	ug/ml	97
14) Bis(2-chloroisopropyl)...	4.950	45	77566	4.229	ug/ml#	67
15) 2-Methylphenol	4.934	108	40951	4.714	ug/ml	96
16) Hexachloroethane	5.142	117	20113	4.394	ug/ml#	29
17) n-Nitrosodi-n-propylamine	5.071	70	35600	4.577	ug/ml#	83
18) 3-Methylphenol/4-Methy...	5.089	108	42496	4.566	ug/ml	96
20) Nitrobenzene	5.211	77	53904	4.732	ug/ml	90
21) Isophorone	5.453	82	91120	4.355	ug/ml#	93
22) 2-Nitrophenol	5.525	139	25556	5.082	ug/ml	95

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250621RVT\
 Data File : ABN0621.D
 Acq On : 21 Jun 2025 6:27 am
 Operator : Dakota:imk
 Sample : WG2081719-3,32,,ABN 11297 gmr0620A
 Misc : WG2081719,,ical22203
 ALS Vial : 96 Sample Multiplier: 1

Quant Time: Jun 21 07:27:28 2025
 Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sat Jun 21 07:28:13 2025
 Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23)	2,4-Dimethylphenol	5.602	107	47110	4.702	ug/ml	97
24)	Bis(2-chloroethoxy)met...	5.689	93	53563	4.345	ug/ml	96
25)	2,4-Dichlorophenol	5.764	162	53007	5.100	ug/ml#	91
26)	1,2,4-Trichlorobenzene	5.842	180	61148	4.704	ug/ml	95
38)	Naphthalene	5.907	128	136944	4.362	ug/ml	98
39)	Benzoic Acid	5.671	105	29604	5.089	ug/ml	92
40)	4-Chloroaniline	5.978	65	19664	4.582	ug/ml	99
41)	Hexachlorobutadiene	6.056	225	38162	4.931	ug/ml	99
42)	p-Chloro-m-cresol	6.473	107	43327	4.968	ug/ml	94
43)	2-Methylnaphthalene	6.584	142	96200	4.715	ug/ml	99
44)	1-Methylnaphthalene	6.678	115	33101	4.774	ug/ml	94
45)	Hexachlorocyclopentadiene	6.755	237	46006	4.403	ug/ml	99
46)	2,4,6-Trichlorophenol	6.870	196	46639	5.157	ug/ml	96
47)	2,4,5-Trichlorophenol	6.898	196	53817	5.363	ug/ml	100
49)	2-Chloronaphthalene	7.048	162	119606	4.654	ug/ml#	87
50)	2-Nitroaniline	7.159	138	30542	4.655	ug/ml	94
51)	1,4-Dinitrobenzene	7.290	168	17562	5.193	ug/ml	80
52)	1,3-Dinitrobenzene	7.365	168	19783	4.794	ug/ml#	1
53)	Dimethyl phthalate	7.361	163	144867	4.675	ug/ml#	98
54)	Acenaphthylene	7.445	152	188393	4.633	ug/ml	99
55)	2,6-Dinitrotoluene	7.402	165	30160	4.863	ug/ml#	77
56)	1,2-Dinitrobenzene	7.442	168	11900	4.622	ug/ml#	1
66)	3-Nitroaniline	7.554	138	29698	4.759	ug/ml#	91
67)	Acenaphthene	7.616	154	108366	4.518	ug/ml	92
68)	2,4-Dinitrophenol	7.657	184	14407	3.432	ug/ml#	79
69)	Dibenzofuran	7.784	168	189720	4.417	ug/ml#	87
70)	2,4-Dinitrotoluene	7.787	165	44147	4.810	ug/ml	90
71)	4-Nitrophenol	7.744	65	30065	5.309	ug/ml	92
72)	2,3,5,6-Tetrachlorophenol	7.874	232	50647	5.462	ug/ml	98
73)	2,3,4,6-Tetrachlorophenol	7.918	232	50919	5.591	ug/ml	99
74)	Diethyl phthalate	8.048	149	136232	4.236	ug/ml	97
75)	Fluorene	8.114	166	148163	4.427	ug/ml	94
76)	4-Chlorophenyl phenyl ...	8.135	204	78449	4.525	ug/ml#	80
77)	4-Nitroaniline	8.142	138	32147	4.904	ug/ml#	93
78)	4,6-Dinitro-o-cresol	8.176	198	26158	4.607	ug/ml#	56
79)	NDPA/DPA	8.250	169	134268	4.592	ug/ml	96
80)	Azobenzene	8.281	77	129743	4.358	ug/ml	94
82)	4-Bromophenyl phenyl e...	8.602	248	52495	4.793	ug/ml#	76
83)	Hexachlorobenzene	8.651	284	63217	4.946	ug/ml#	79
84)	Pentachlorophenol	8.844	266	46941	6.194	ug/ml	98
91)	Phenanthrene	9.034	178	266797	4.280	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250621RVT\
 Data File : ABN0621.D
 Acq On : 21 Jun 2025 6:27 am
 Operator : Dakota:imk
 Sample : WG2081719-3,32,,ABN 11297 gmr0620A
 Misc : WG2081719,,ical22203
 ALS Vial : 96 Sample Multiplier: 1

Quant Time: Jun 21 07:27:28 2025
 Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sat Jun 21 07:28:13 2025
 Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
92)	Anthracene	9.083	178	265018	4.341	ug/ml	100
93)	Carbazole	9.251	167	253196	4.407	ug/ml	100
94)	Di-n-butylphthalate	9.640	149	241666	4.053	ug/ml	98
95)	Fluoranthene	10.184	202	349908	4.765	ug/ml#	90
96)	Benzo(a)pyrene	10.333	184	210476	4.752	ug/ml#	92
97)	Pyrene	10.395	202	374662	4.717	ug/ml	99
99)	Butyl benzyl phthalate	11.107	149	119542	4.619	ug/ml	88
107)	Benzo(a)anthracene	11.620	228	393934	4.355	ug/ml	99
108)	3,3'-Dichlorobenzidine	11.623	252	148574	4.646	ug/ml#	94
109)	Chrysene	11.657	228	383074	4.301	ug/ml	98
110)	Bis(2-ethylhexyl)phtha...	11.741	149	197427	4.335	ug/ml#	95
111)	Di-n-octylphthalate	12.415	149	335755	4.538	ug/ml#	77
112)	Benzo(b)fluoranthene	12.717	252	408120	4.448	ug/ml#	91
113)	Benzo(k)fluoranthene	12.745	252	428069	4.587	ug/ml#	91
114)	Benzo(a)pyrene	13.028	252	403381M2	4.608	ug/ml	
116)	Indeno(1,2,3-cd)pyrene	14.047	276	439324	4.307	ug/mL#	85
117)	Dibenzo(a,h)anthracene	14.069	278	433190	4.407	ug/ml#	87
118)	Benzo(ghi)perylene	14.289	276	435238	4.426	ug/ml#	81

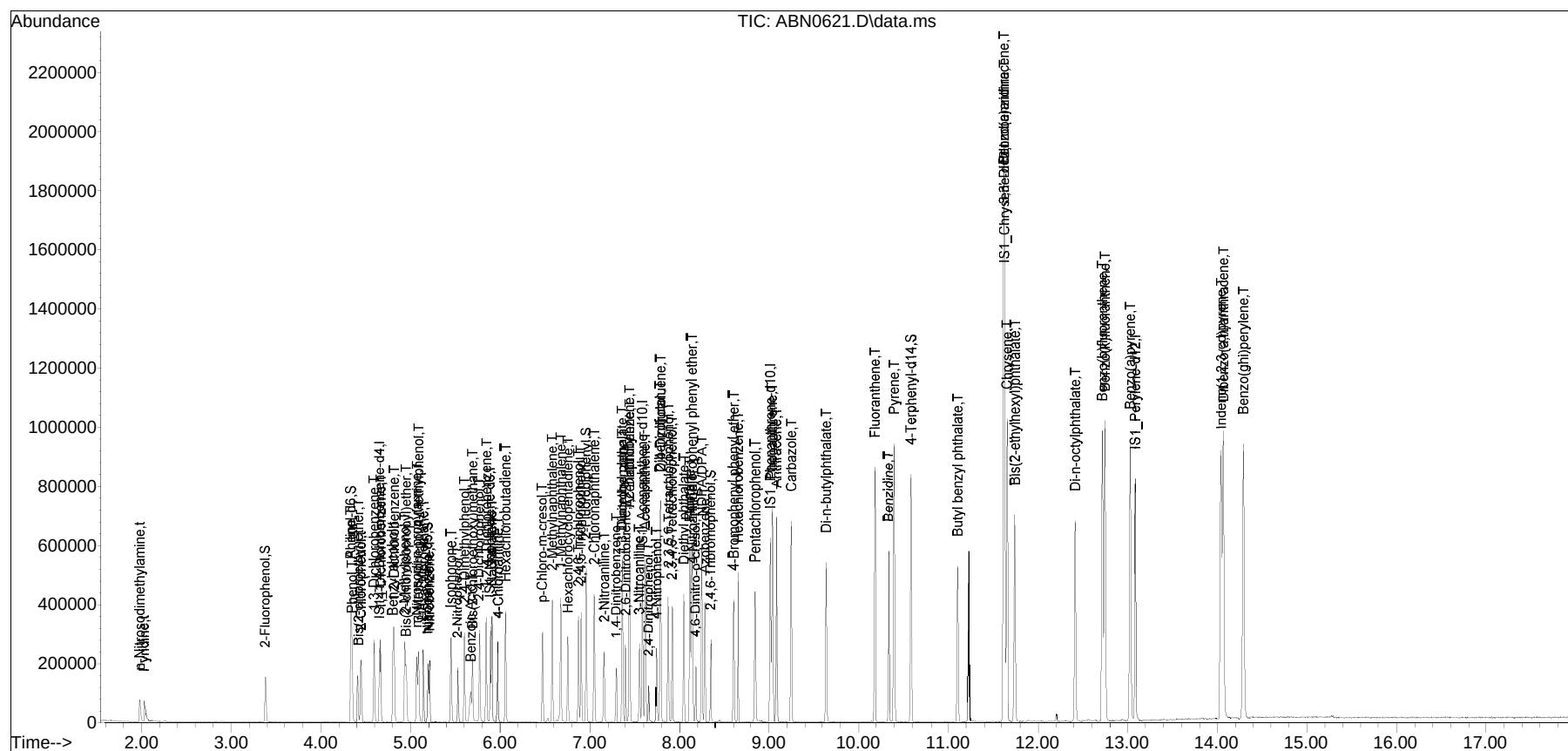
(#) = qualifier out of range (m) = manual integration (+) = signals summed

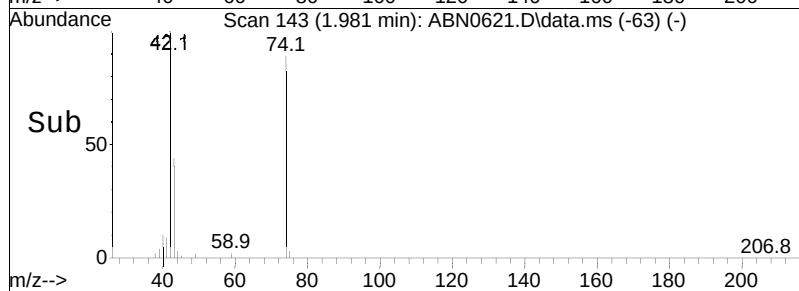
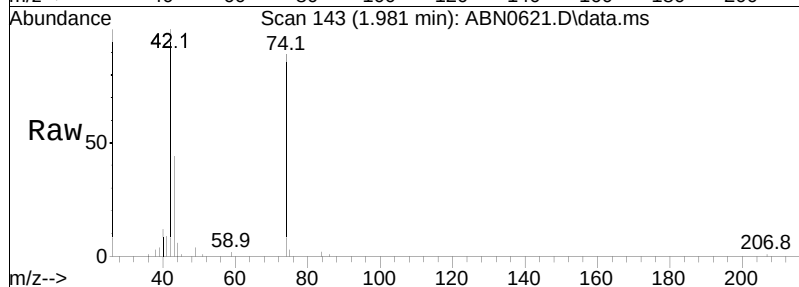
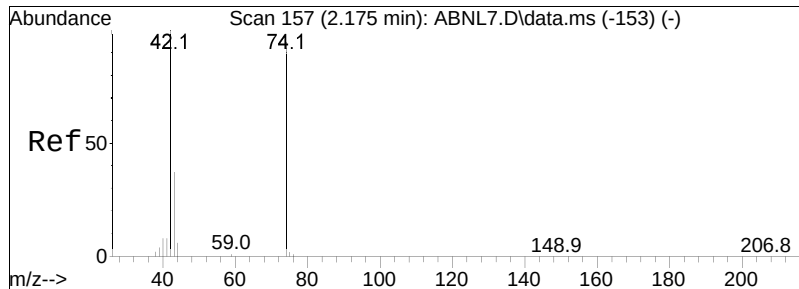
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250621RVT\
Data File : ABN0621.D
Acq On : 21 Jun 2025 6:27 am
Operator : Dakota:imk
Sample : WG2081719-3,32,,ABN 11297 gmr0620A
Misc : WG2081719,,ical22203
ALS Vial : 96 Sample Multiplier: 1

Quant Time: Jun 21 07:27:28 2025
Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 21 07:28:13 2025
Response via : Initial Calibration

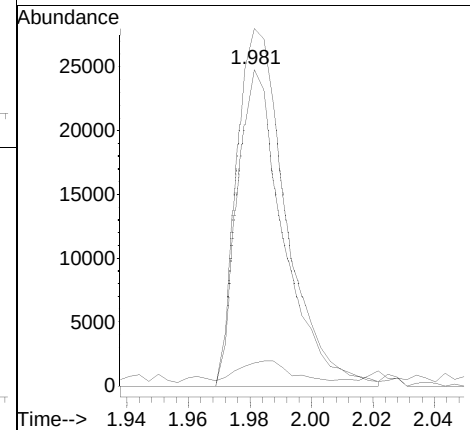
Sub List : ABNical - ABN ical sublist

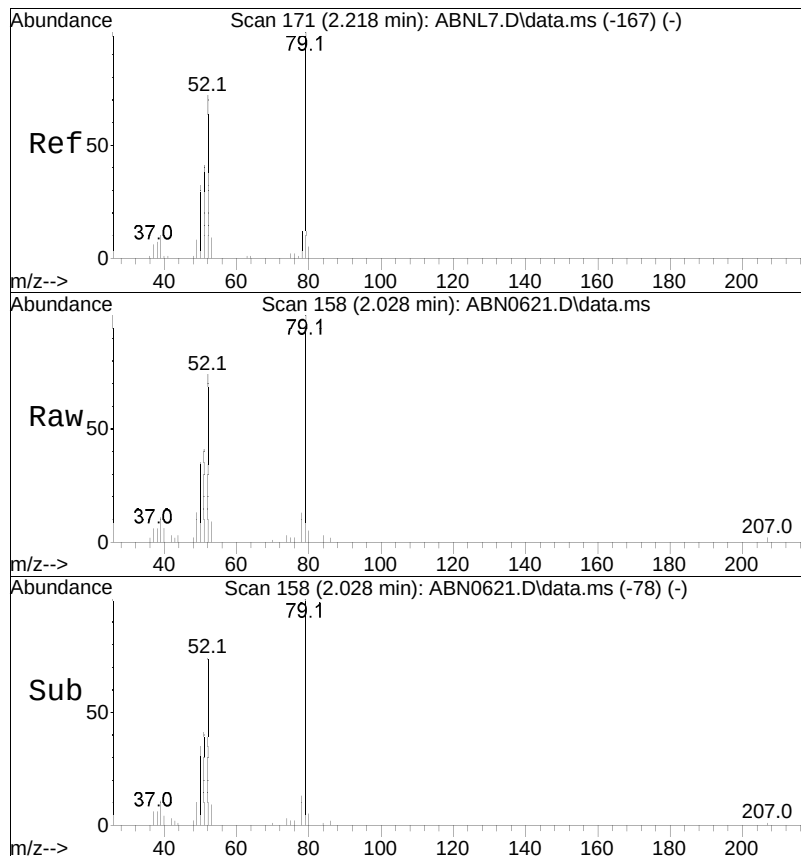




#2
 n-Nitrosodimethylamine
 Concen: 4.41 ug/ml
 RT: 1.981 min Scan# 143
 Delta R.T. 0.000 min
 Lab File: ABN0621.D
 Acq: 21 Jun 2025 6:27 am

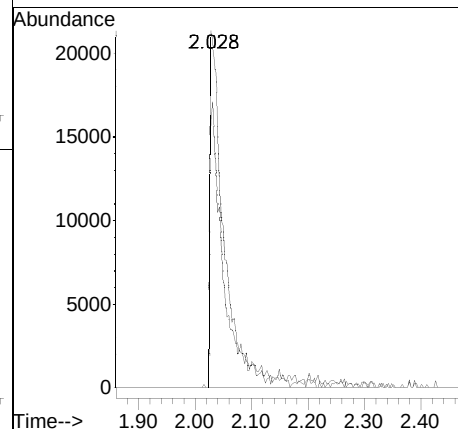
Tgt Ion: 74 Resp: 25883
 Ion Ratio Lower Upper
 74 100
 42 120.2 100.0 150.0
 44 6.4 6.7 10.1#

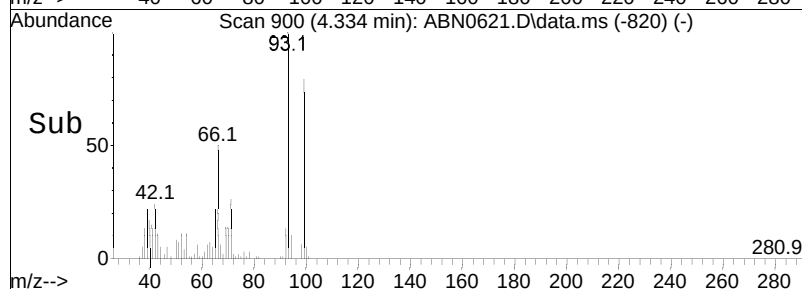
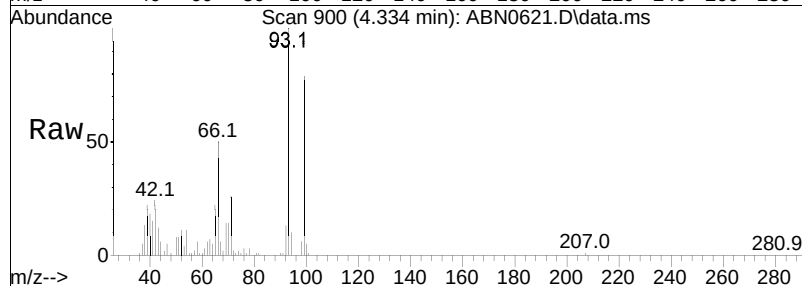
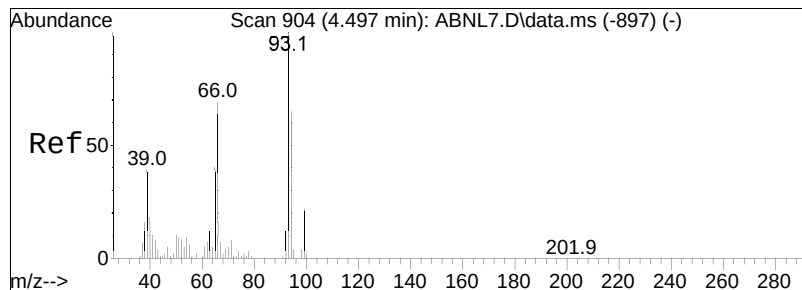




#3
 Pyridine
 Concen: 3.84 ug/ml M1
 RT: 2.028 min Scan# 158
 Delta R.T. 0.000 min
 Lab File: ABN0621.D
 Acq: 21 Jun 2025 6:27 am

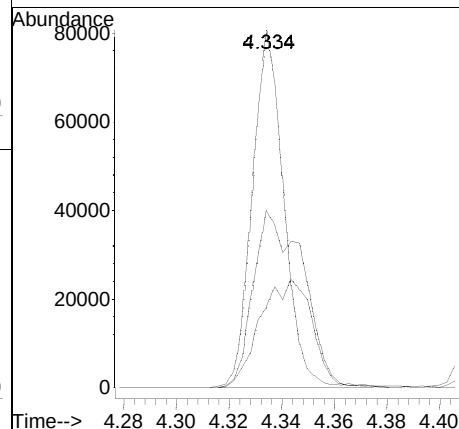
Tgt Ion	Ratio	Lower	Upper
79	100		
52	66.4	93.1	139.7#

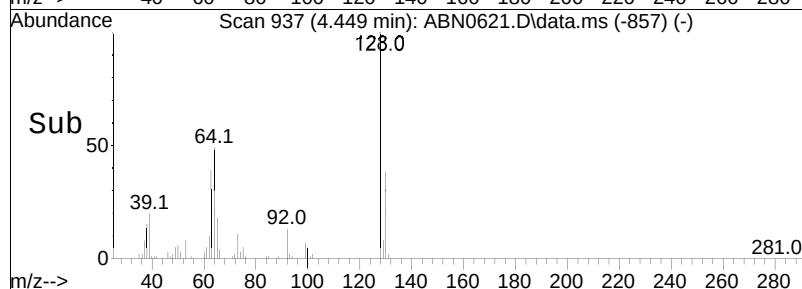
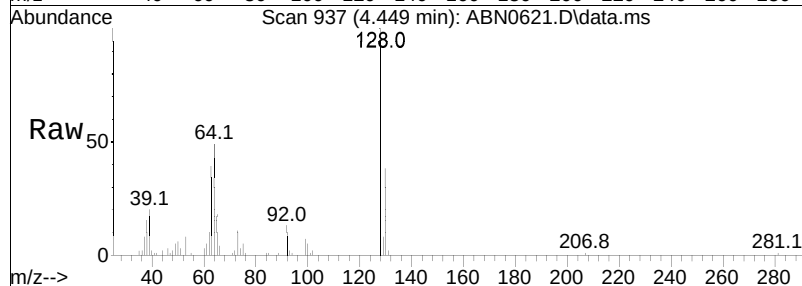
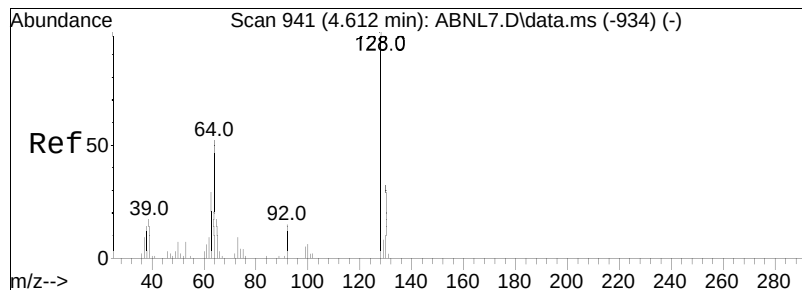




#5
 Aniline
 Concen: 4.61 ug/ml
 RT: 4.334 min Scan# 900
 Delta R.T. 0.000 min
 Lab File: ABN0621.D
 Acq: 21 Jun 2025 6:27 am

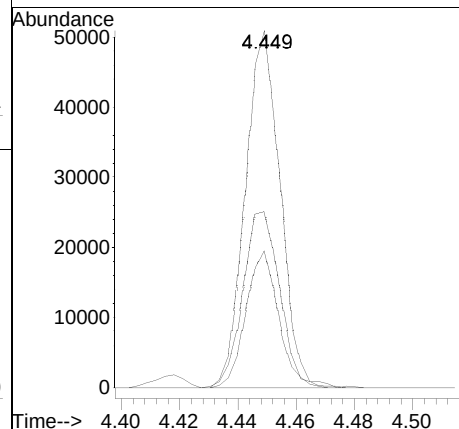
Tgt Ion	Ratio	Resp	Lower	Upper
93	100	66457		
66	78.1		32.6	49.0#
65	50.0		17.6	26.4#

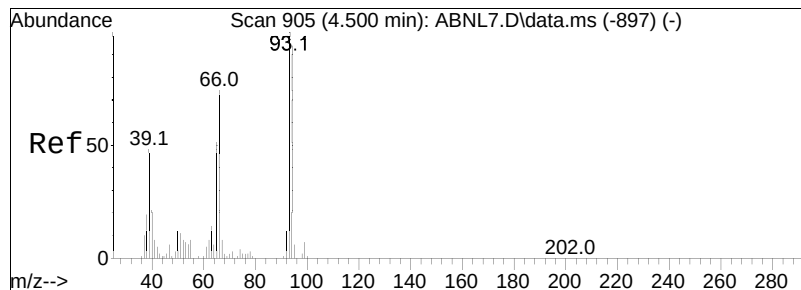




#6
 2-Chlorophenol
 Concen: 4.33 ug/ml
 RT: 4.449 min Scan# 937
 Delta R.T. 0.000 min
 Lab File: ABN0621.D
 Acq: 21 Jun 2025 6:27 am

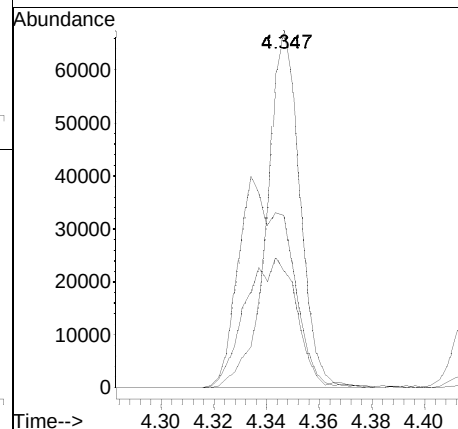
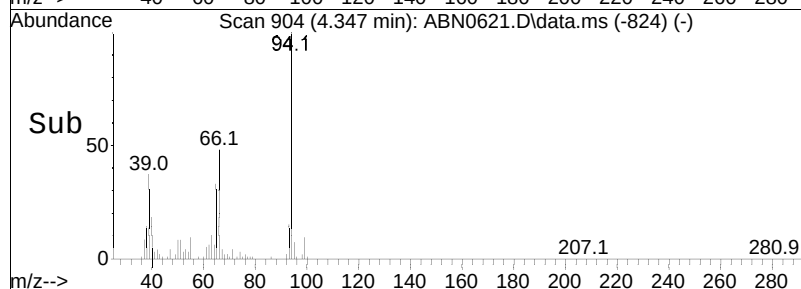
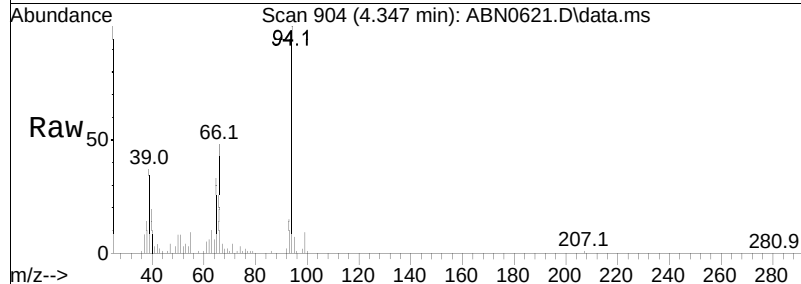
Tgt Ion	Ratio	Lower	Upper
128	100		
64	52.2	45.1	67.7
130	35.8	26.2	39.4

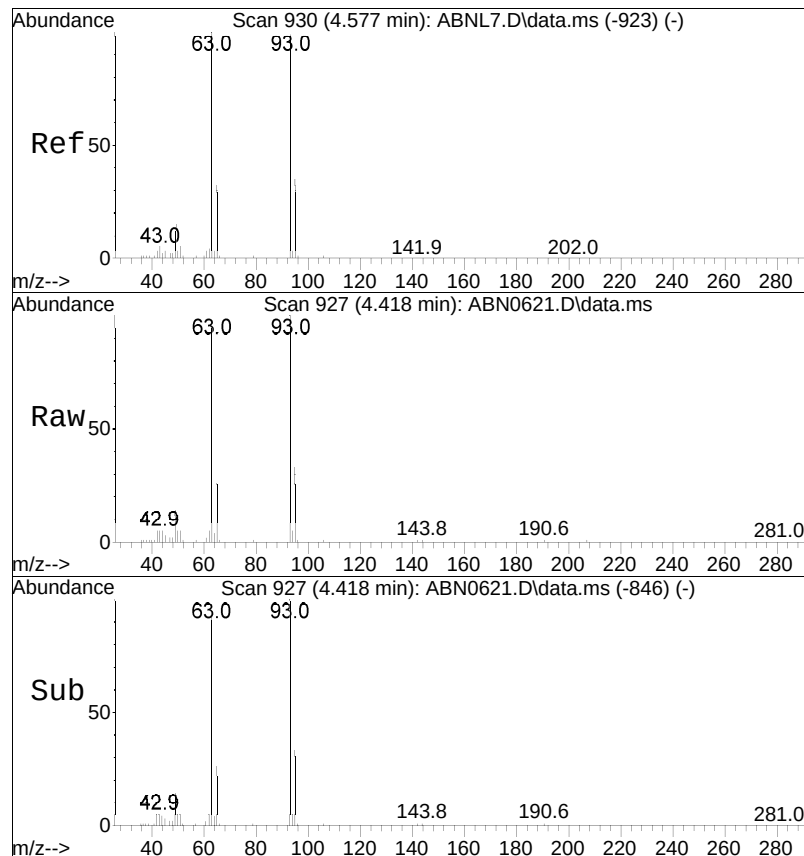




#8
 Phenol
 Concen: 4.45 ug/ml
 RT: 4.347 min Scan# 904
 Delta R.T. 0.000 min
 Lab File: ABN0621.D
 Acq: 21 Jun 2025 6:27 am

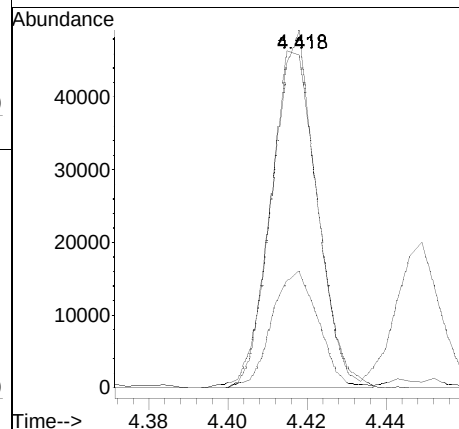
Tgt Ion	Ratio	Lower	Upper
94	100		
65	56.5	26.0	39.0#
66	88.2	33.8	50.8#

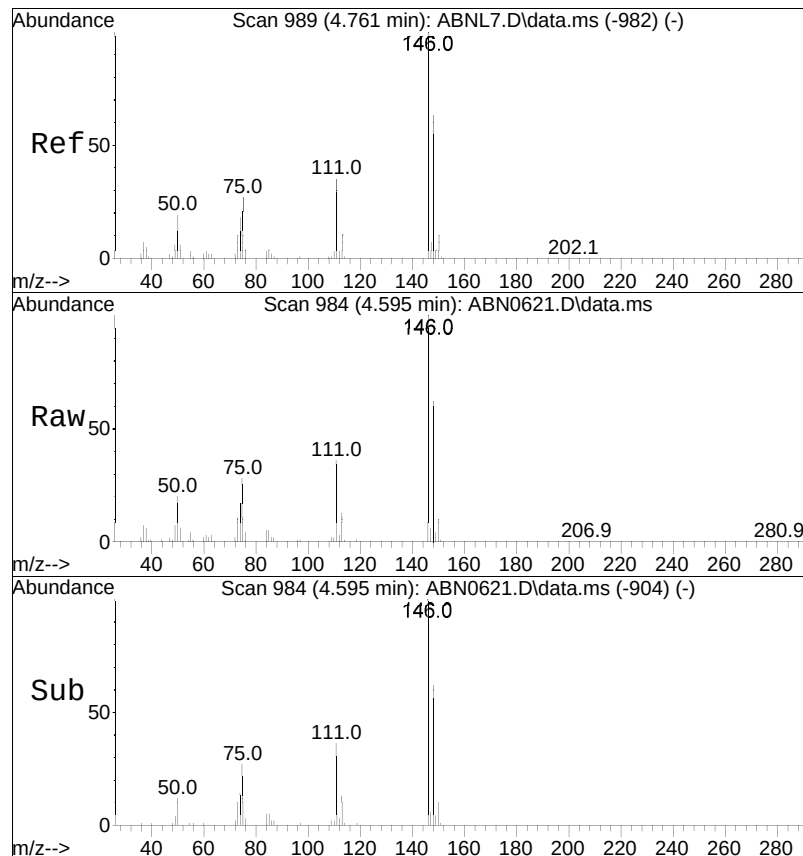




#9
 Bis(2-chloroethyl)ether
 Concen: 4.50 ug/ml
 RT: 4.418 min Scan# 927
 Delta R.T. 0.000 min
 Lab File: ABN0621.D
 Acq: 21 Jun 2025 6:27 am

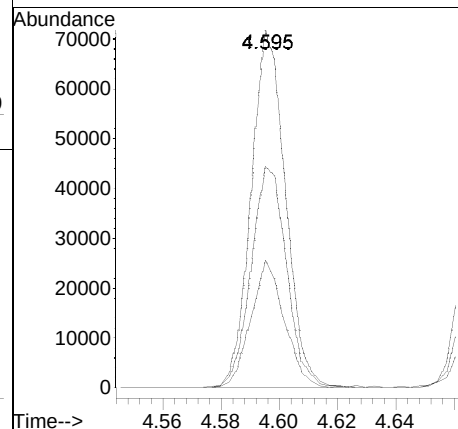
Tgt Ion:	93	Resp:	38419
Ion Ratio	Lower	Upper	
93	100		
63	98.1	74.6	111.8
95	34.2	25.9	38.9

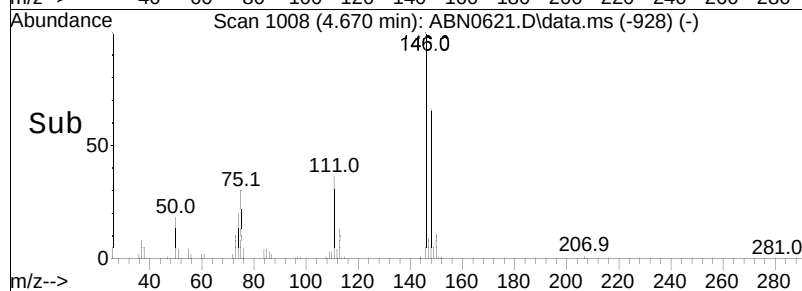
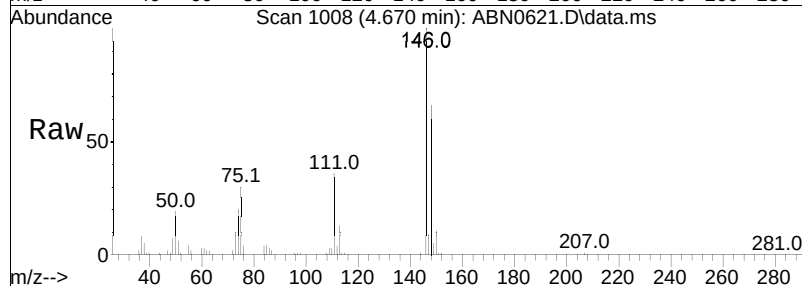
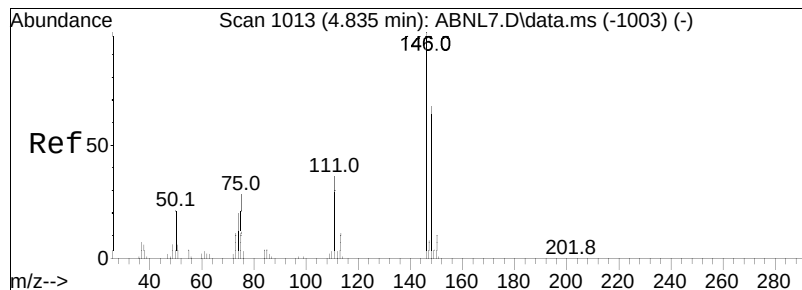




#10
 1,3-Dichlorobenzene
 Concen: 4.50 ug/ml
 RT: 4.595 min Scan# 984
 Delta R.T. 0.000 min
 Lab File: ABN0621.D
 Acq: 21 Jun 2025 6:27 am

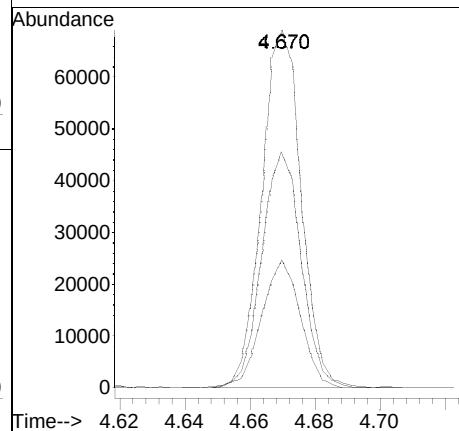
Tgt Ion	Ratio	Lower	Upper
146	100		
111	34.9	34.3	51.5
148	64.0	50.8	76.2

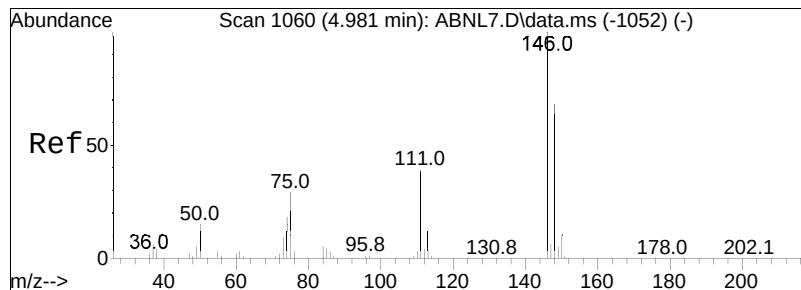




#11
 1,4-Dichlorobenzene
 Concen: 4.34 ug/ml
 RT: 4.670 min Scan# 1008
 Delta R.T. 0.000 min
 Lab File: ABN0621.D
 Acq: 21 Jun 2025 6:27 am

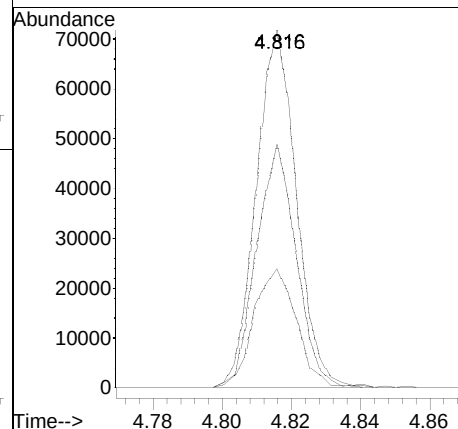
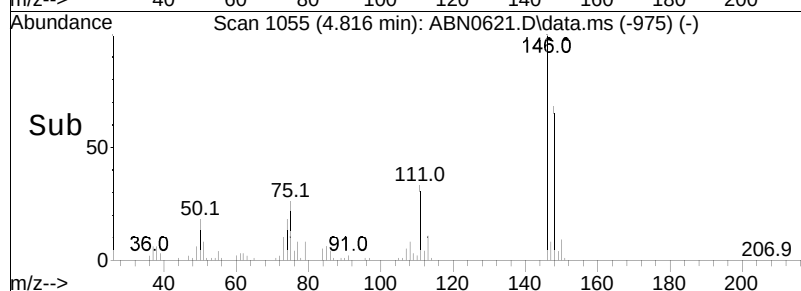
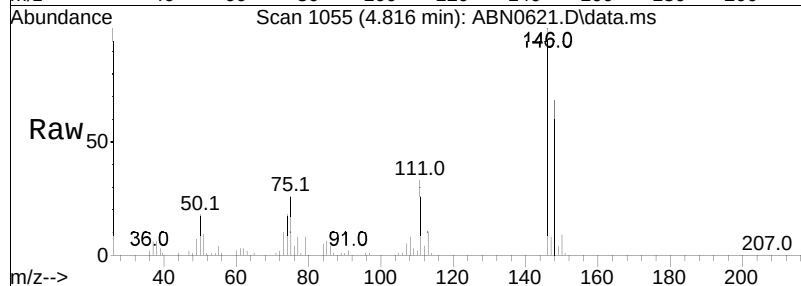
Tgt Ion	Ratio	Lower	Upper
146	100		
148	65.9	50.7	76.1
111	35.4	33.4	50.0

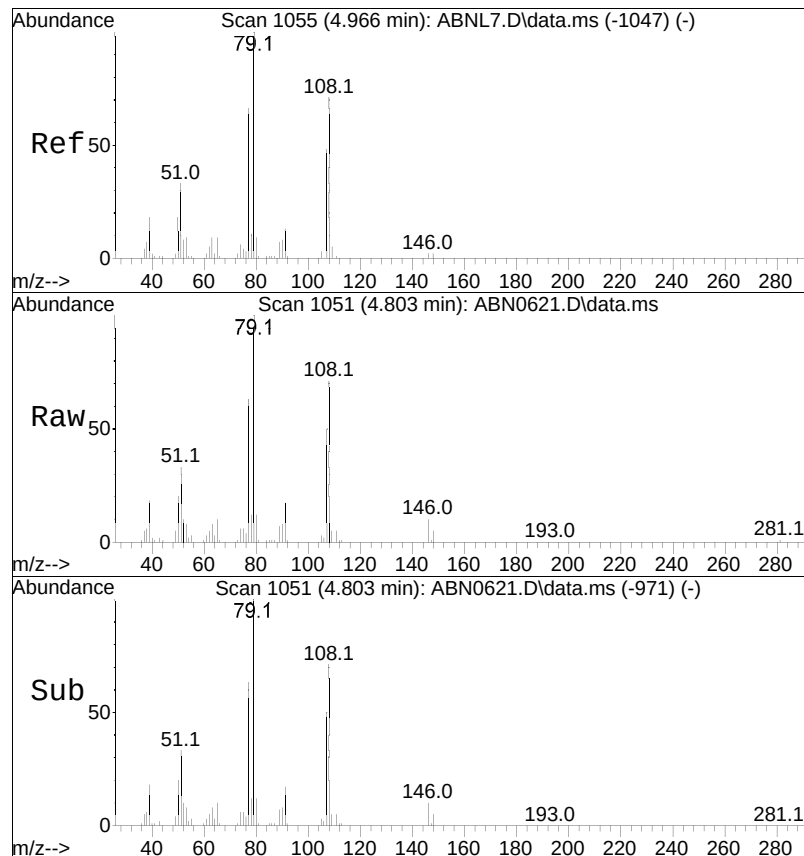




#12
 1,2-Dichlorobenzene
 Concen: 4.64 ug/ml
 RT: 4.816 min Scan# 1055
 Delta R.T. 0.000 min
 Lab File: ABN0621.D
 Acq: 21 Jun 2025 6:27 am

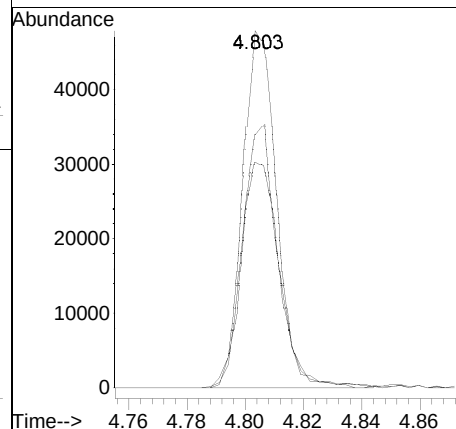
Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.4	34.6	52.0
148	67.4	50.2	75.4

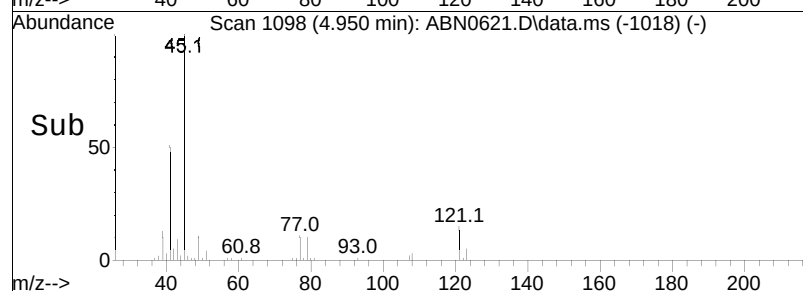
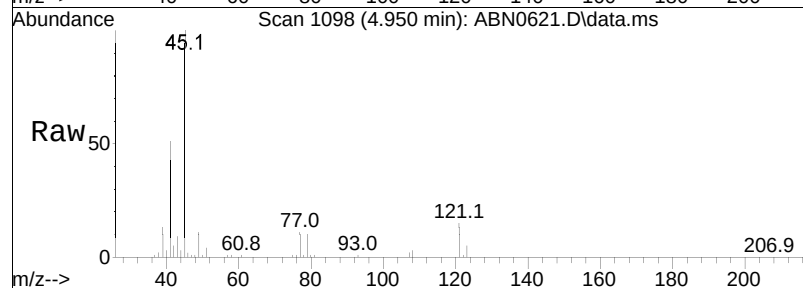
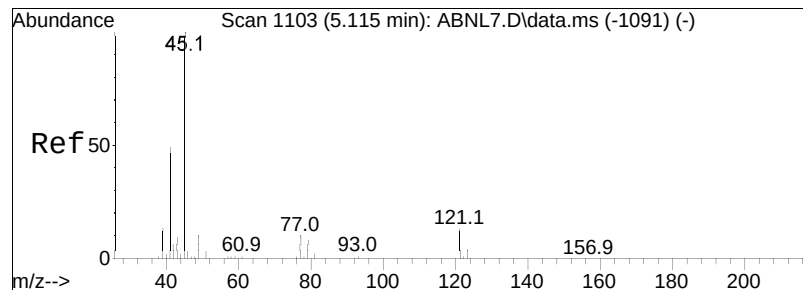




#13
 Benzyl alcohol
 Concen: 4.52 ug/ml
 RT: 4.803 min Scan# 1051
 Delta R.T. 0.000 min
 Lab File: ABN0621.D
 Acq: 21 Jun 2025 6:27 am

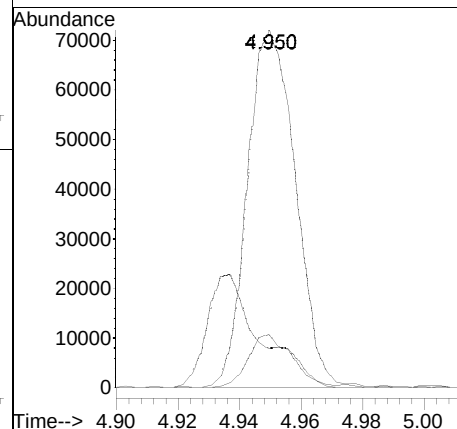
Tgt Ion:	79	Resp:	38938
Ion Ratio	Lower	Upper	
79	100		
77	70.5	54.9	82.3
108	75.2	63.1	94.7

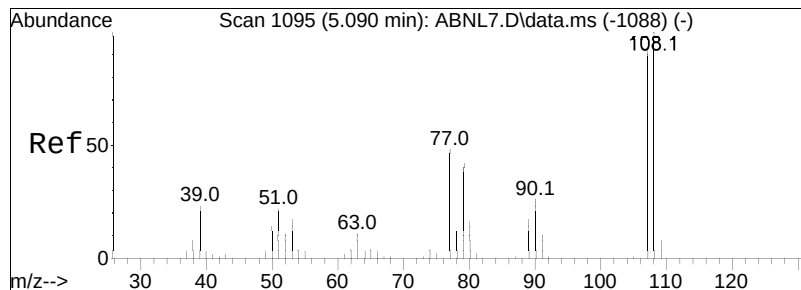




#14
 Bis(2-chloroisopropyl)ether
 Concen: 4.23 ug/ml
 RT: 4.950 min Scan# 1098
 Delta R.T. 0.000 min
 Lab File: ABN0621.D
 Acq: 21 Jun 2025 6:27 am

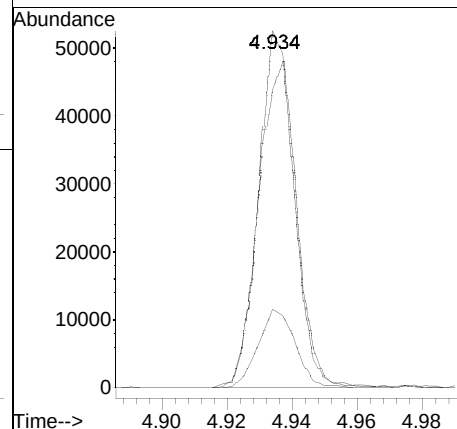
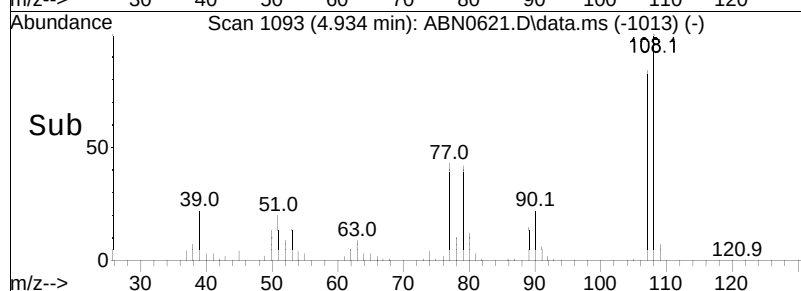
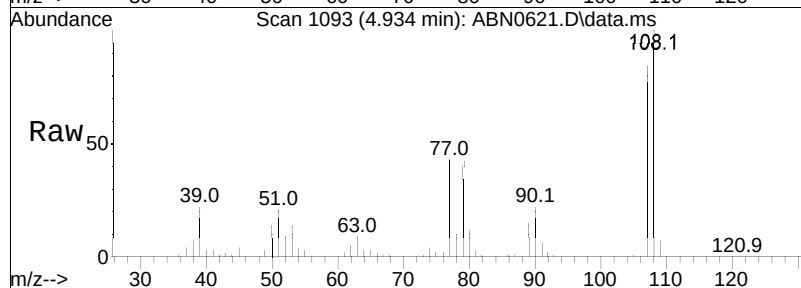
Tgt Ion:	45	Resp:	77566
Ion Ratio	Lower	Upper	
45	100		
121	13.9	9.8	14.6
77	35.1	6.1	9.1#

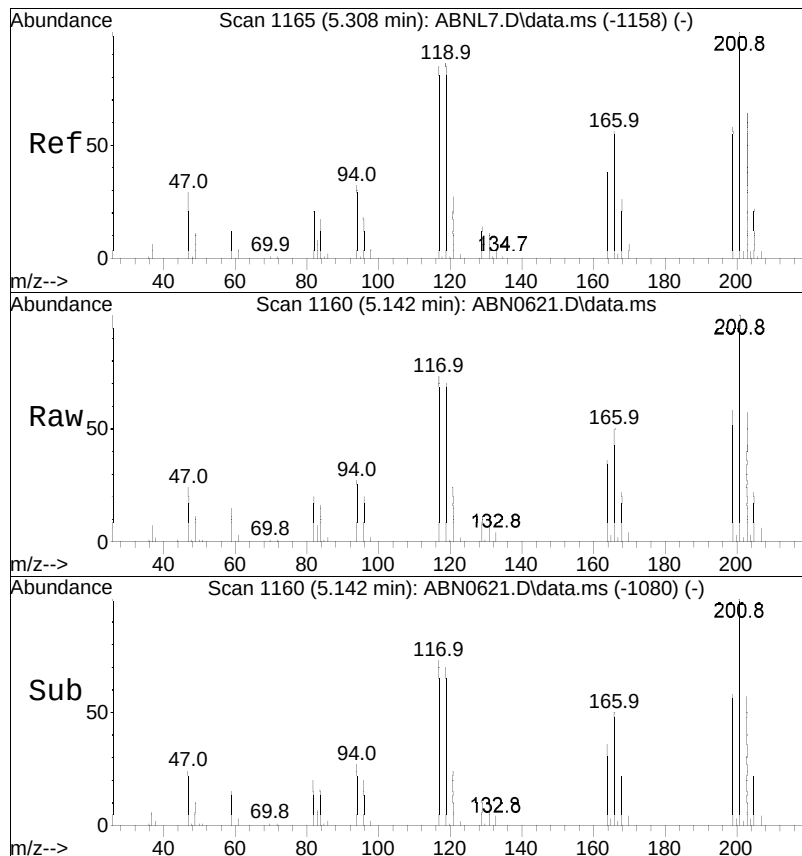




#15
 2-Methylphenol
 Concen: 4.71 ug/ml
 RT: 4.934 min Scan# 1093
 Delta R.T. 0.000 min
 Lab File: ABN0621.D
 Acq: 21 Jun 2025 6:27 am

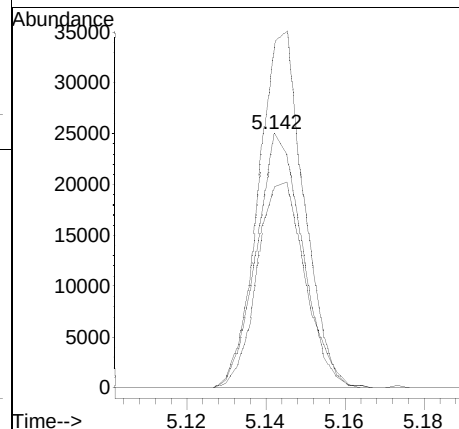
Tgt Ion	Ratio	Lower	Upper
108	100		
107	92.3	70.7	106.1
90	22.3	18.7	28.1

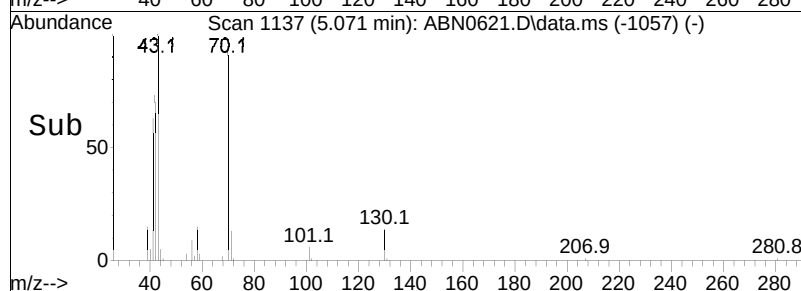
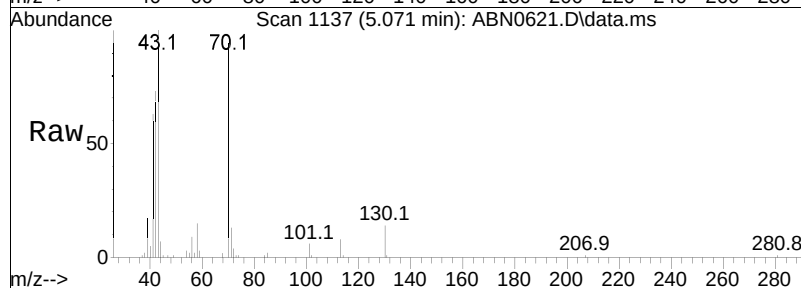
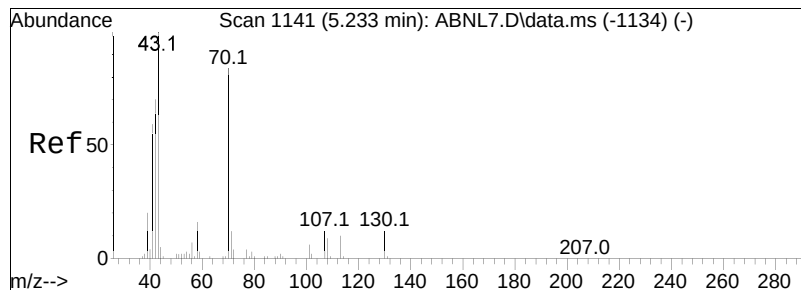




#16
 Hexachloroethane
 Concen: 4.39 ug/ml
 RT: 5.142 min Scan# 1160
 Delta R.T. 0.000 min
 Lab File: ABN0621.D
 Acq: 21 Jun 2025 6:27 am

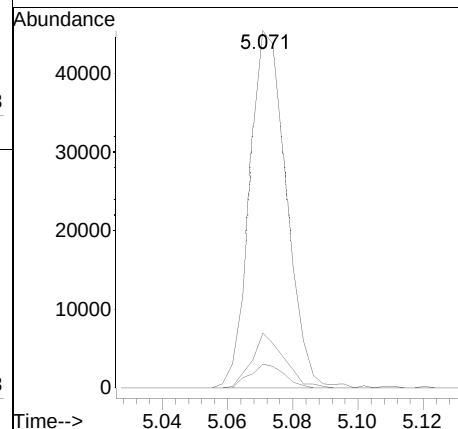
Tgt Ion:	117	Resp:	20113
Ion Ratio	Lower	Upper	
117	100		
201	139.2	58.6	87.8#
199	86.0	36.9	55.3#

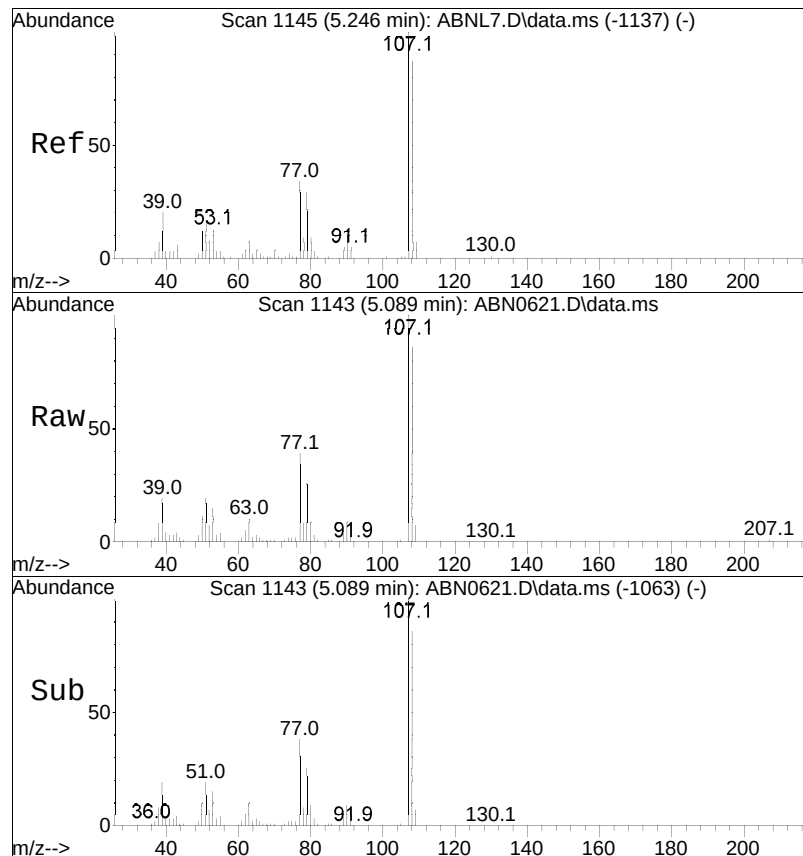




#17
 n-Nitrosodi-n-propylamine
 Concen: 4.58 ug/ml
 RT: 5.071 min Scan# 1137
 Delta R.T. 0.000 min
 Lab File: ABN0621.D
 Acq: 21 Jun 2025 6:27 am

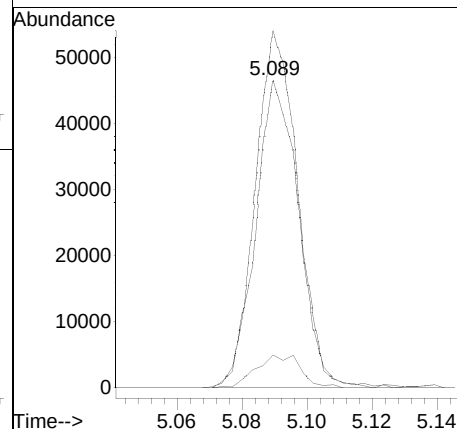
Tgt Ion	Ratio	Lower	Upper
70	100		
130	13.4	18.2	27.4#
101	6.2	7.8	11.8#

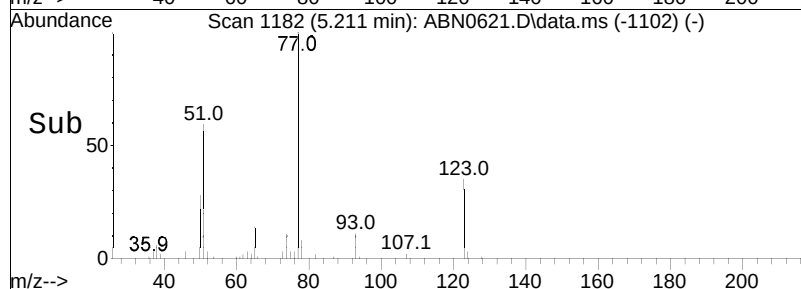
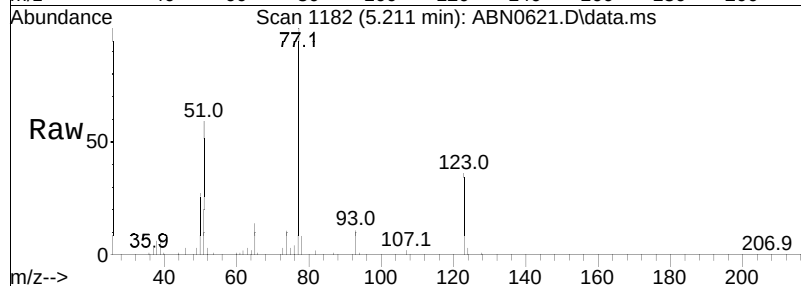
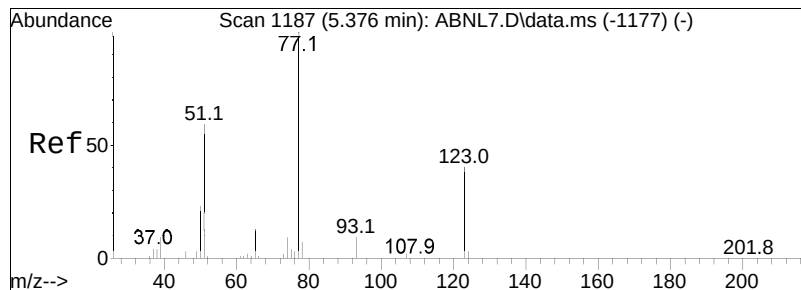




#18
 3-Methylphenol/4-Methylphenol
 Concen: 4.57 ug/ml
 RT: 5.089 min Scan# 1143
 Delta R.T. 0.000 min
 Lab File: ABN0621.D
 Acq: 21 Jun 2025 6:27 am

Tgt Ion:	108	Resp:	42496
Ion Ratio	Lower	Upper	
108	100		
107	115.2	88.6	132.8
90	11.1	8.8	13.2





#20

Nitrobenzene

Concen: 4.73 ug/ml

RT: 5.211 min Scan# 1182

Delta R.T. 0.000 min

Lab File: ABN0621.D

Acq: 21 Jun 2025 6:27 am

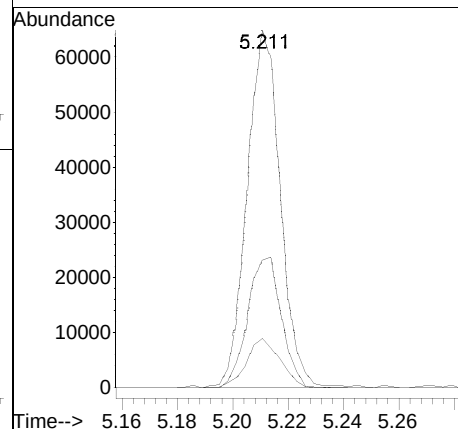
Tgt Ion: 77 Resp: 53904

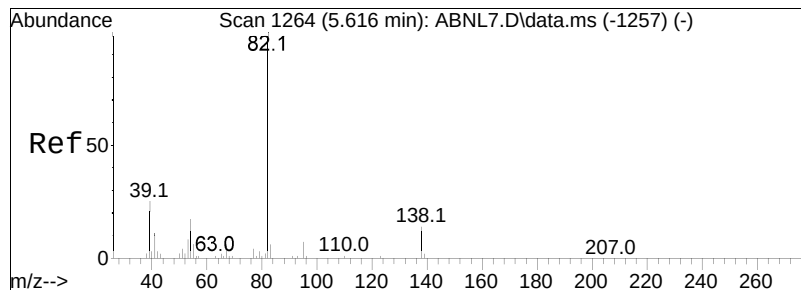
Ion Ratio Lower Upper

77 100

123 36.9 36.3 54.5

65 14.2 11.6 17.4





#21

Isophorone

Concen: 4.36 ug/ml

RT: 5.453 min Scan# 1260

Delta R.T. 0.000 min

Lab File: ABN0621.D

Acq: 21 Jun 2025 6:27 am

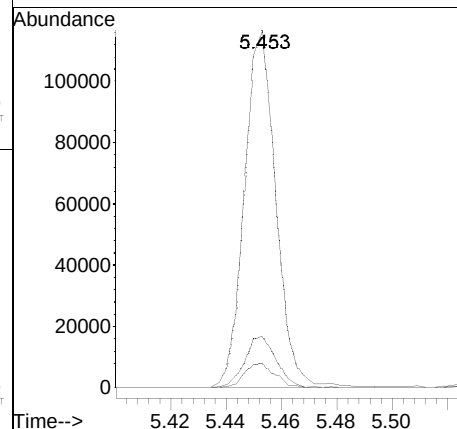
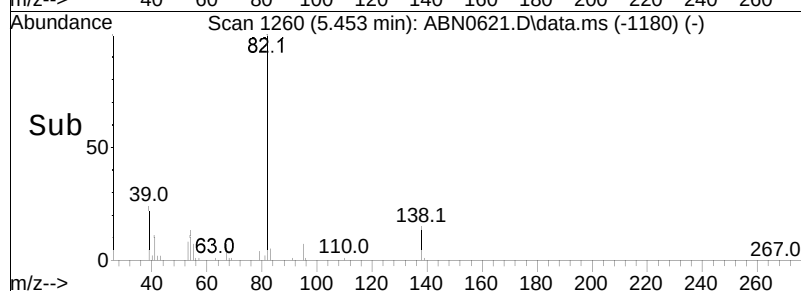
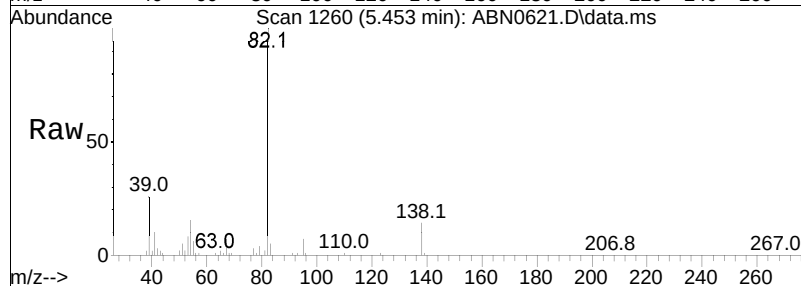
Tgt Ion: 82 Resp: 91120

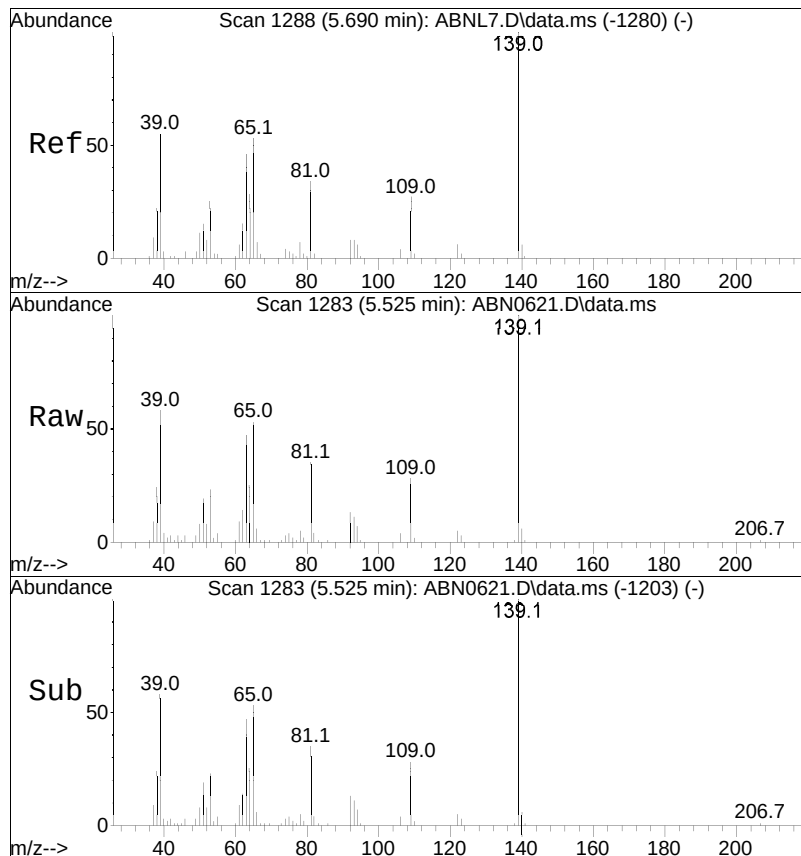
Ion Ratio Lower Upper

82 100

138 14.3 14.7 22.1#

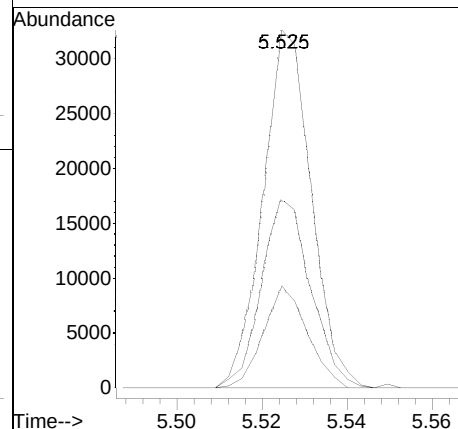
95 6.5 5.2 7.8

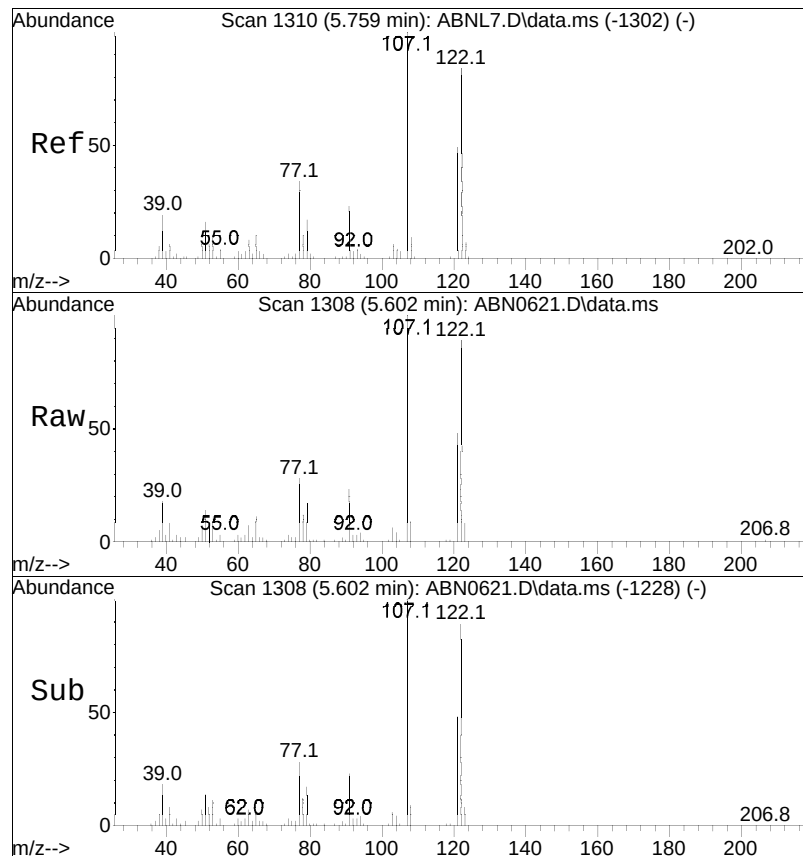




#22
 2-Nitrophenol
 Concen: 5.08 ug/ml
 RT: 5.525 min Scan# 1283
 Delta R.T. 0.000 min
 Lab File: ABN0621.D
 Acq: 21 Jun 2025 6:27 am

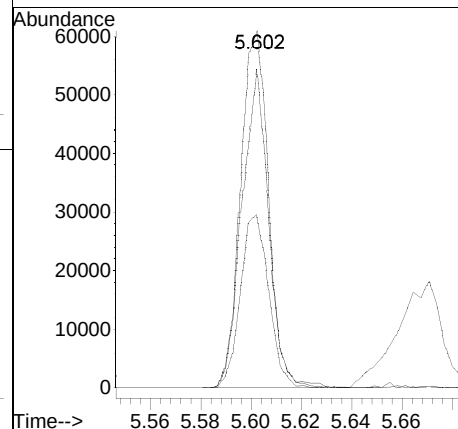
Tgt Ion	Ratio	Lower	Upper
139	100		
109	26.0	19.4	29.0
65	54.0	46.1	69.1

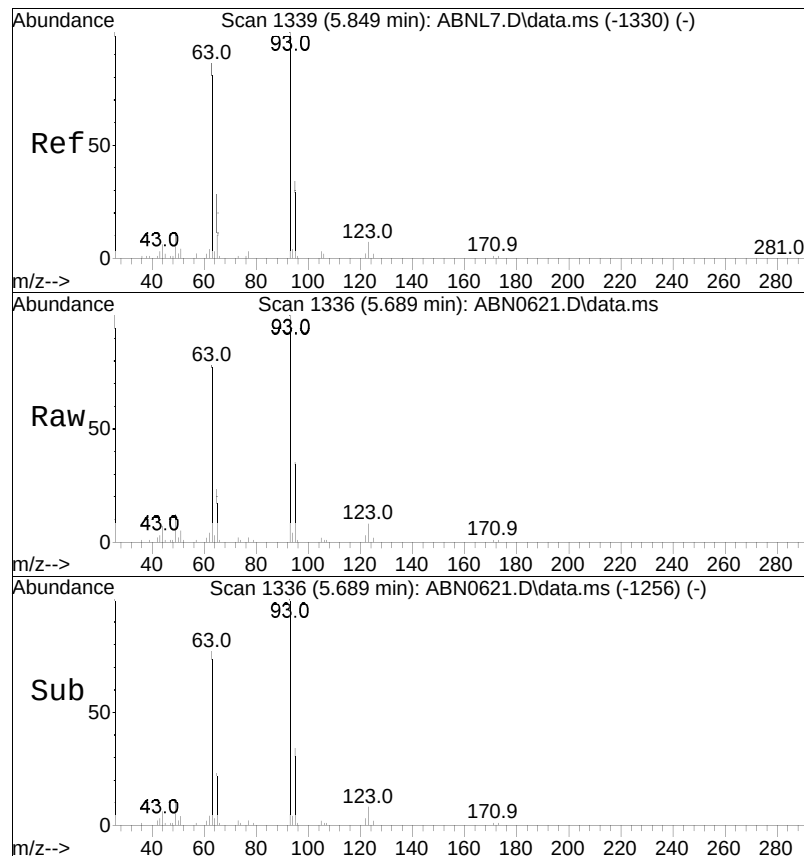




#23
 2,4-Dimethylphenol
 Concen: 4.70 ug/ml
 RT: 5.602 min Scan# 1308
 Delta R.T. 0.000 min
 Lab File: ABN0621.D
 Acq: 21 Jun 2025 6:27 am

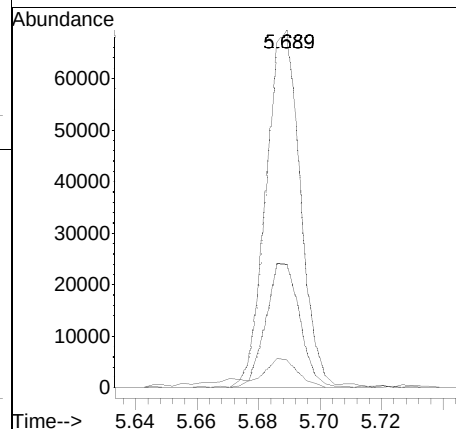
Tgt Ion:	107	Resp:	47110
Ion Ratio	Lower	Upper	
107	100		
121	49.2	40.0	60.0
122	84.2	70.2	105.4

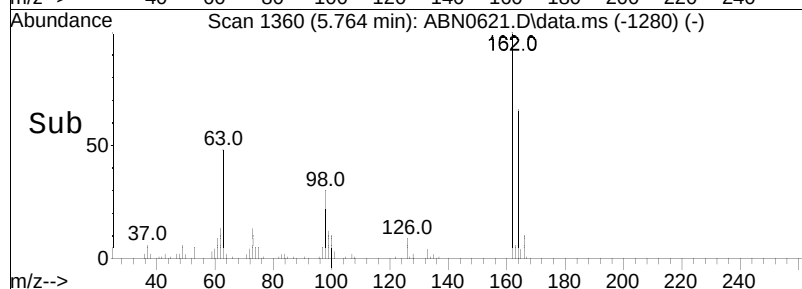
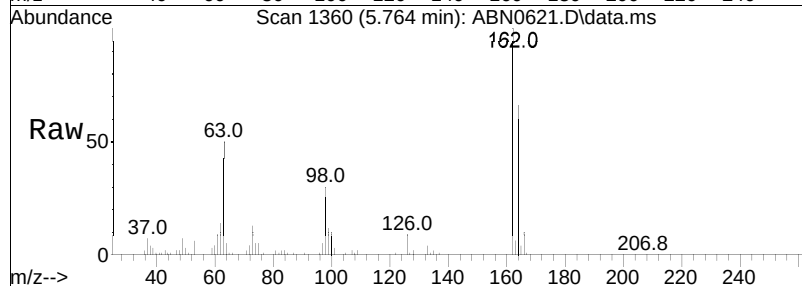
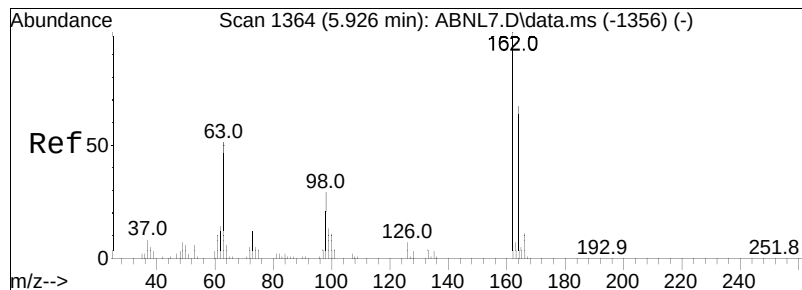




#24
 Bis(2-chloroethoxy)methane
 Concen: 4.35 ug/ml
 RT: 5.689 min Scan# 1336
 Delta R.T. 0.000 min
 Lab File: ABN0621.D
 Acq: 21 Jun 2025 6:27 am

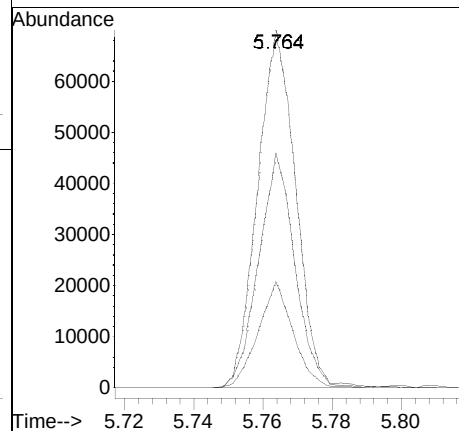
Tgt Ion	Ratio	Resp	Lower	Upper
93	100	53563		
95	34.3		25.8	38.8
123	11.0		10.1	15.1

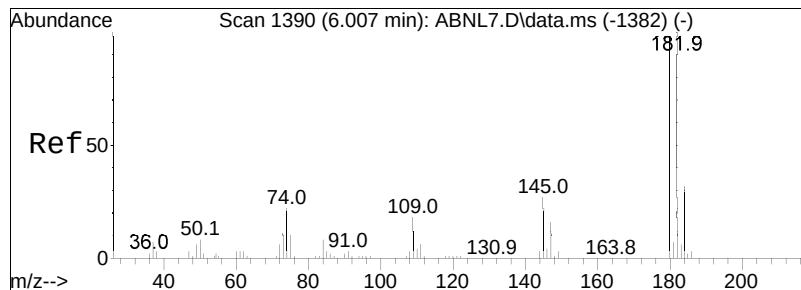




#25
 2,4-Dichlorophenol
 Concen: 5.10 ug/ml
 RT: 5.764 min Scan# 1360
 Delta R.T. 0.000 min
 Lab File: ABN0621.D
 Acq: 21 Jun 2025 6:27 am

Tgt Ion	Ratio	Lower	Upper
162	100		
164	62.9	51.0	76.4
98	27.4	32.2	48.2





#26

1,2,4-Trichlorobenzene

Concen: 4.70 ug/ml

RT: 5.842 min Scan# 1385

Delta R.T. 0.000 min

Lab File: ABN0621.D

Acq: 21 Jun 2025 6:27 am

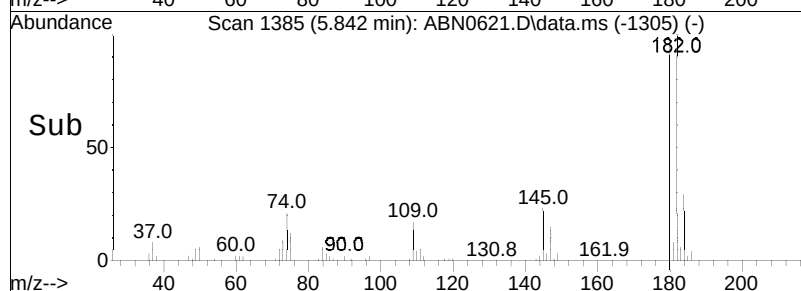
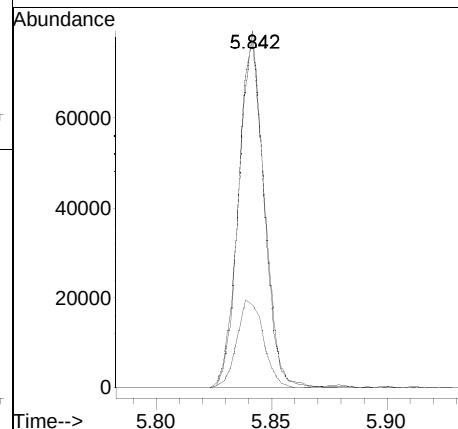
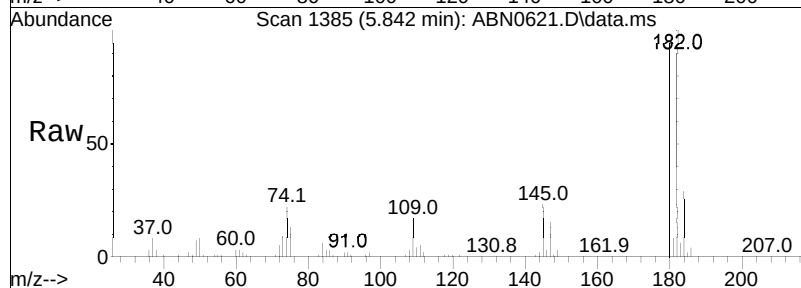
Tgt Ion:180 Resp: 61148

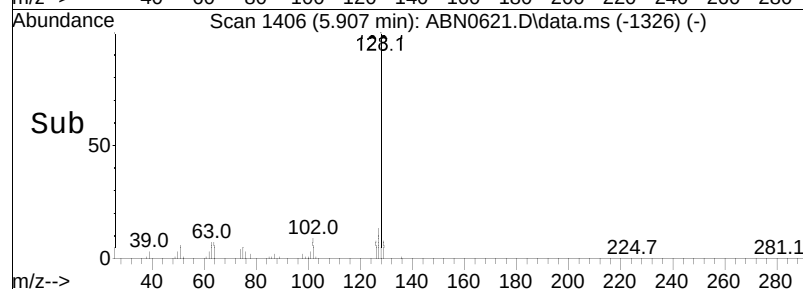
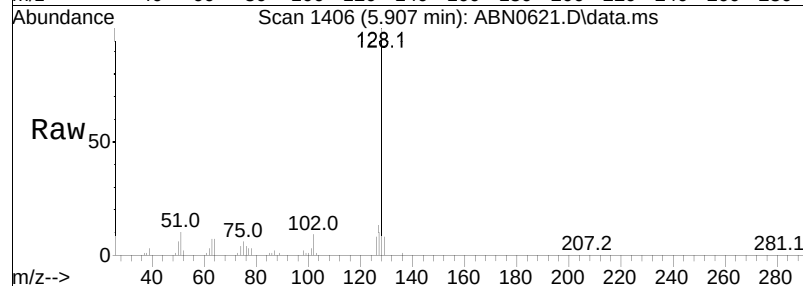
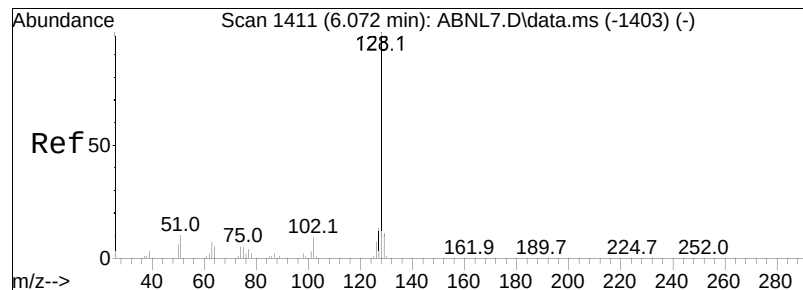
Ion Ratio Lower Upper

180 100

182 97.4 76.0 114.0

145 25.8 25.7 38.5





#38

Naphthalene

Concen: 4.36 ug/ml

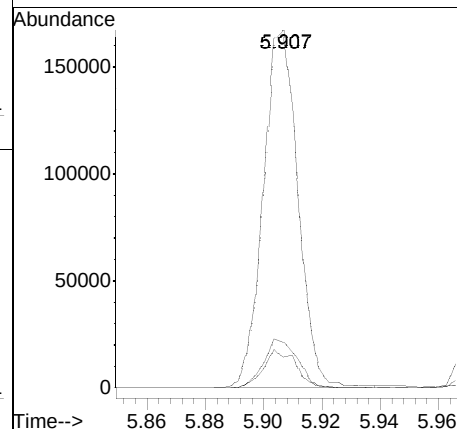
RT: 5.907 min Scan# 1406

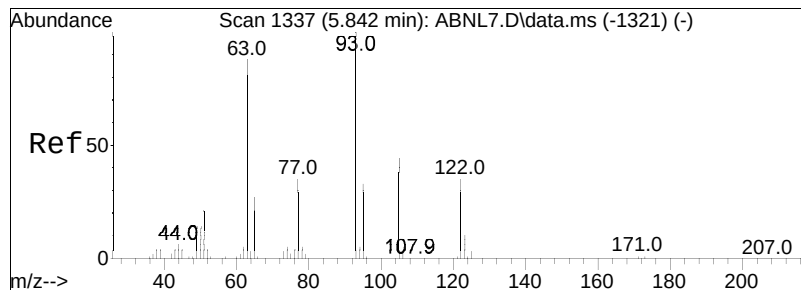
Delta R.T. 0.000 min

Lab File: ABN0621.D

Acq: 21 Jun 2025 6:27 am

Tgt	Ion:128	Resp:	136944
Ion	Ratio	Lower	Upper
128	100		
129	10.1	8.7	13.1
127	13.4	10.3	15.5





#39

Benzoic Acid

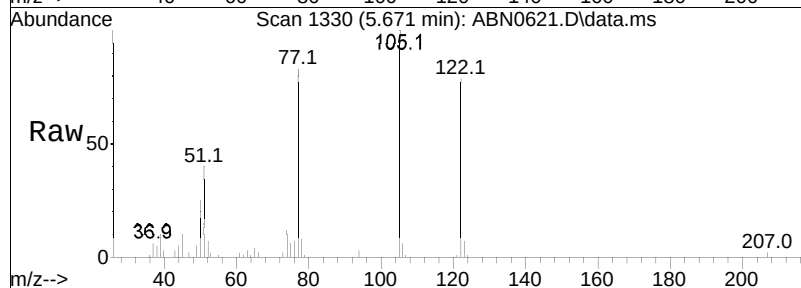
Concen: 5.09 ug/ml

RT: 5.671 min Scan# 1330

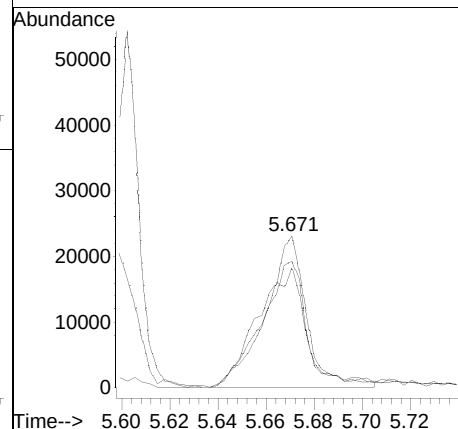
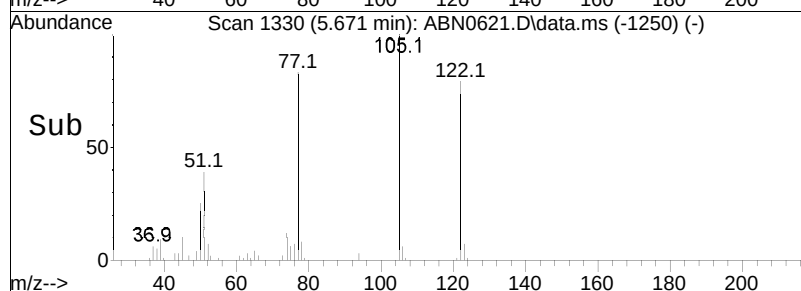
Delta R.T. 0.000 min

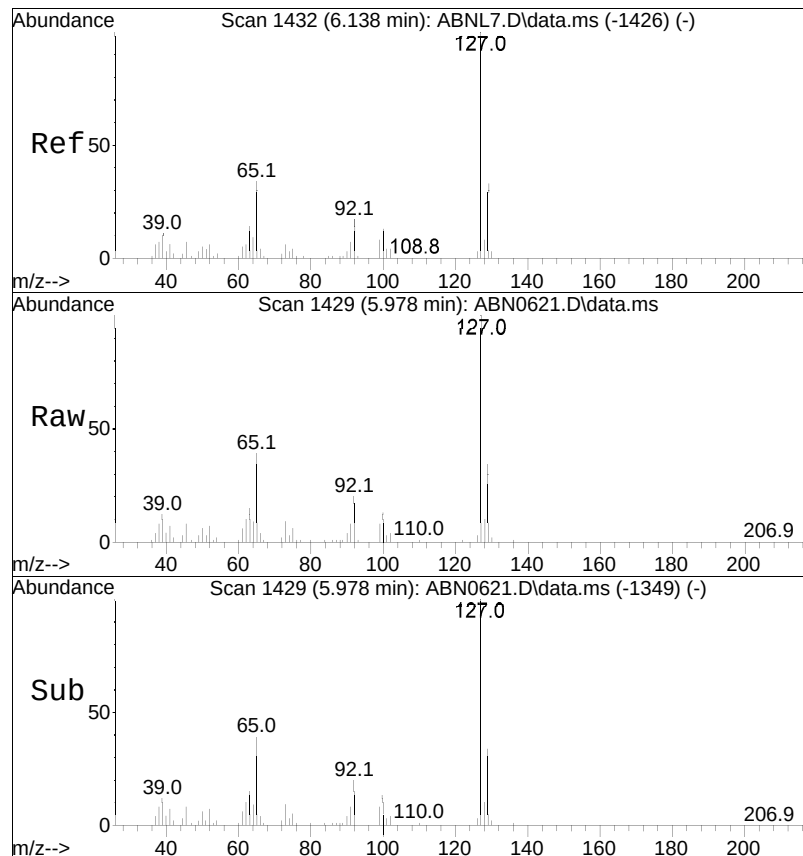
Lab File: ABN0621.D

Acq: 21 Jun 2025 6:27 am



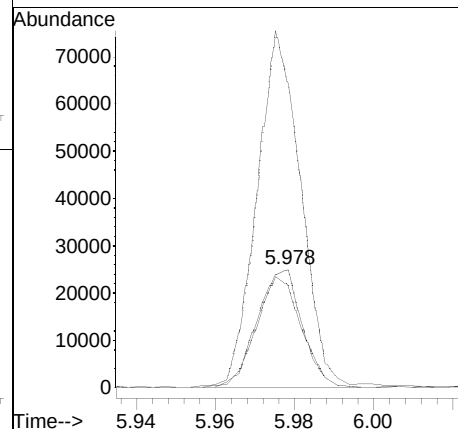
Tgt Ion:	105	Resp:	29604
Ion Ratio	Lower	Upper	
105	100		
122	79.0	59.9	89.9
77	85.1	60.1	90.1

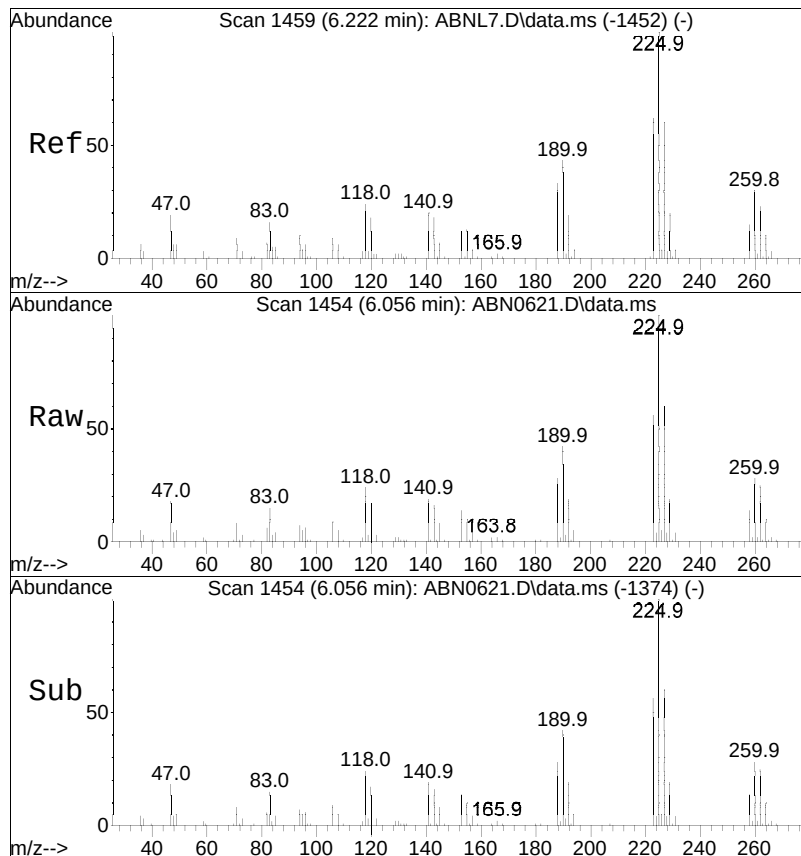




#40
 4-Chloroaniline
 Concen: 4.58 ug/ml
 RT: 5.978 min Scan# 1429
 Delta R.T. 0.000 min
 Lab File: ABN0621.D
 Acq: 21 Jun 2025 6:27 am

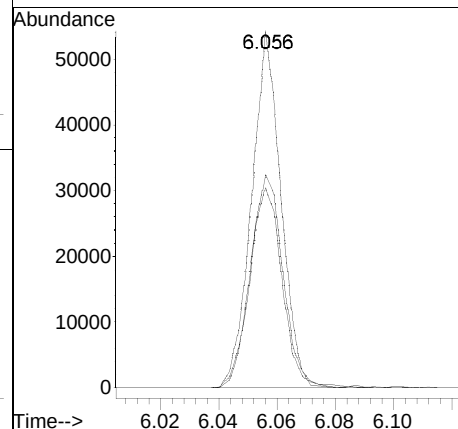
Tgt Ion:	65	Resp:	19664
Ion Ratio	Lower	Upper	
65	100		
127	293.9	237.6	356.4
129	94.2	76.3	114.5

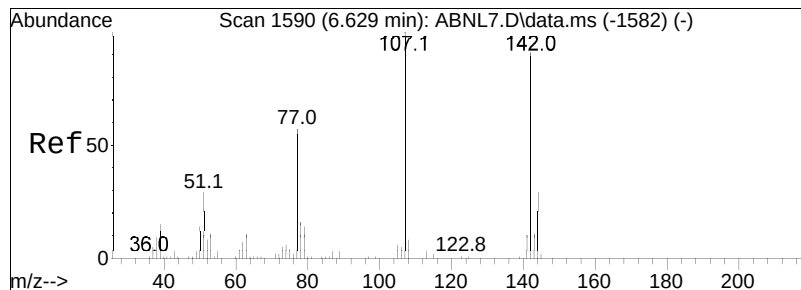




#41
 Hexachlorobutadiene
 Concen: 4.93 ug/ml
 RT: 6.056 min Scan# 1454
 Delta R.T. 0.000 min
 Lab File: ABN0621.D
 Acq: 21 Jun 2025 6:27 am

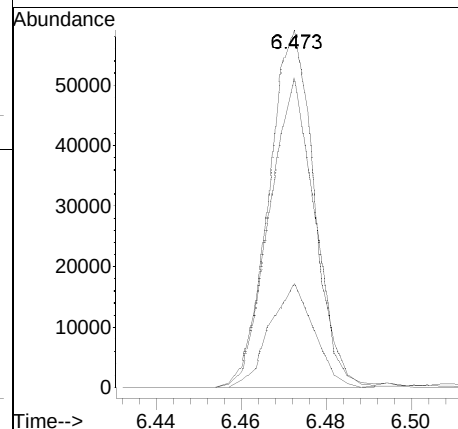
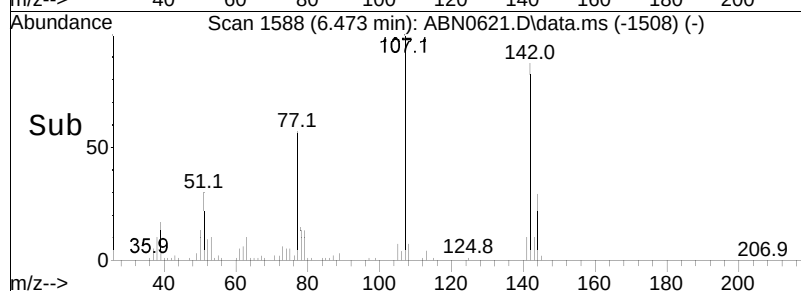
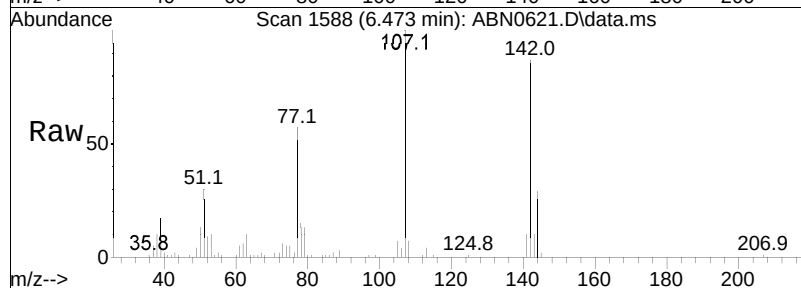
Tgt Ion:	225	Resp:	38162
Ion Ratio	Lower	Upper	
225	100		
223	61.5	50.3	75.5
227	65.6	52.2	78.2

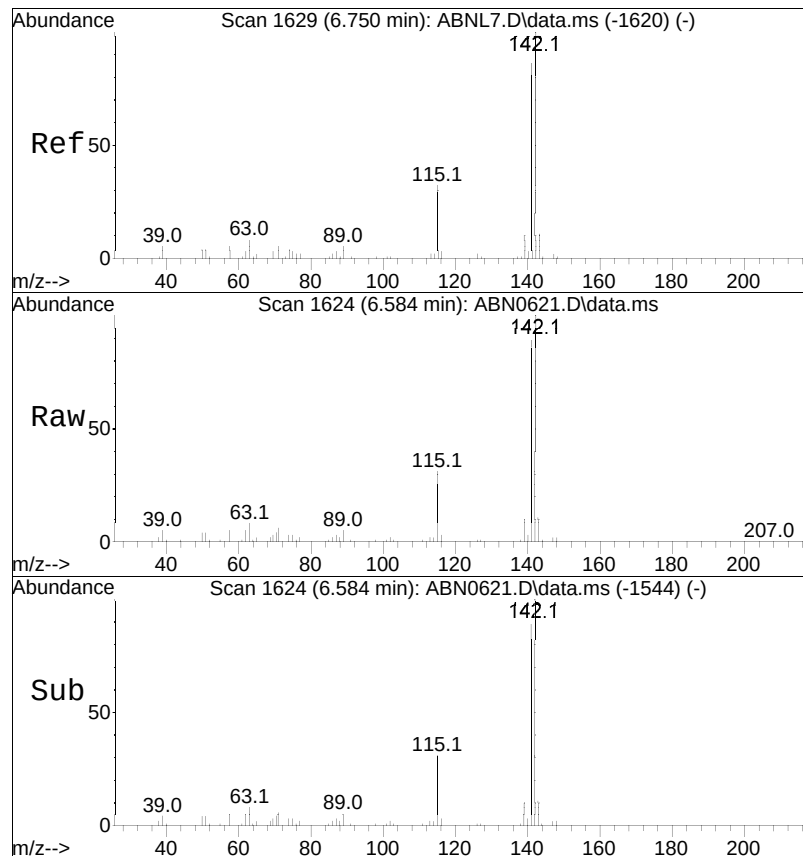




#42
 p-Chloro-m-cresol
 Concen: 4.97 ug/ml
 RT: 6.473 min Scan# 1588
 Delta R.T. 0.000 min
 Lab File: ABN0621.D
 Acq: 21 Jun 2025 6:27 am

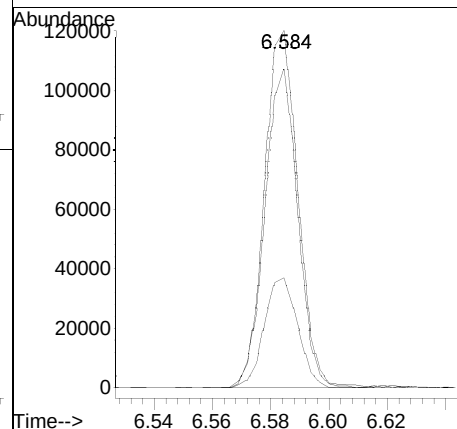
Tgt Ion:	107	Resp:	43327
Ion Ratio	Lower	Upper	
107	100		
144	28.6	20.9	31.3
142	88.1	66.1	99.1

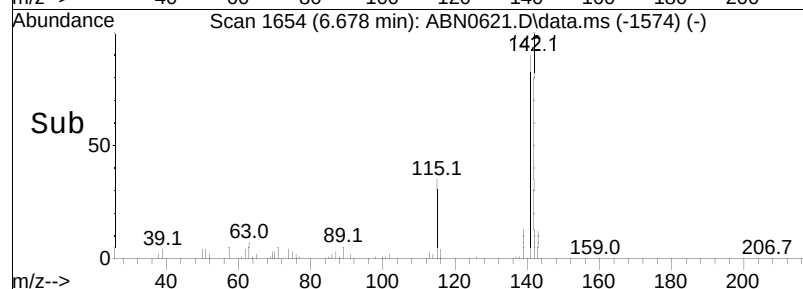
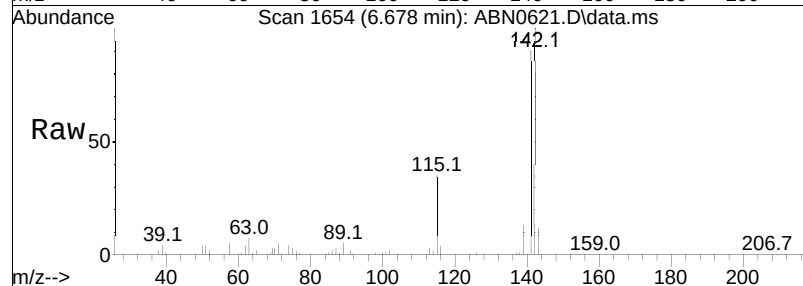
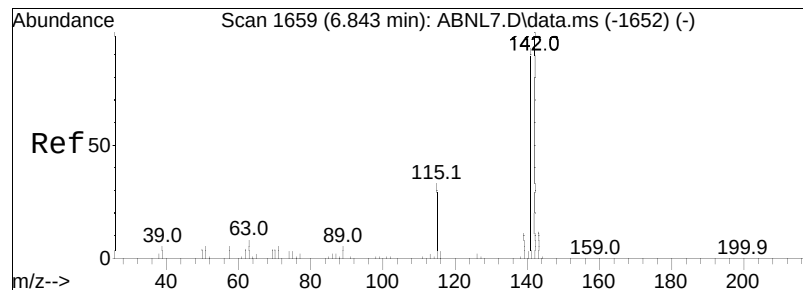




#43
 2-Methylnaphthalene
 Concen: 4.71 ug/ml
 RT: 6.584 min Scan# 1624
 Delta R.T. 0.000 min
 Lab File: ABN0621.D
 Acq: 21 Jun 2025 6:27 am

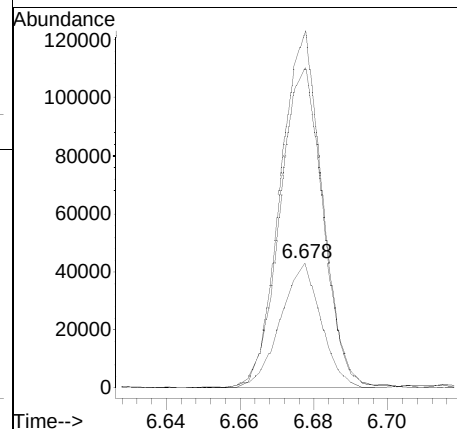
Tgt Ion	Ratio	Lower	Upper
142	100		
141	87.3	69.6	104.4
115	31.0	26.6	40.0

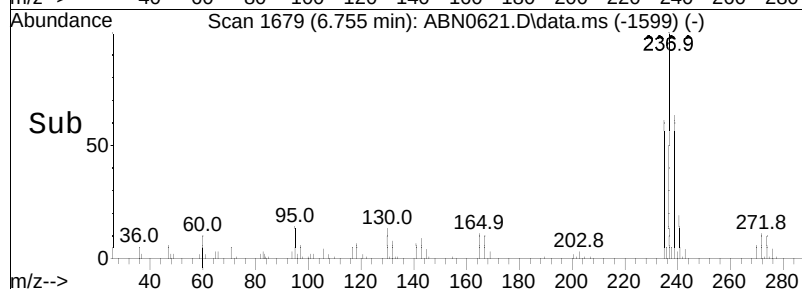
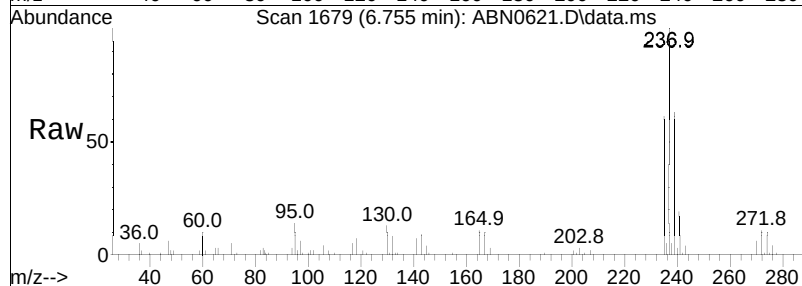
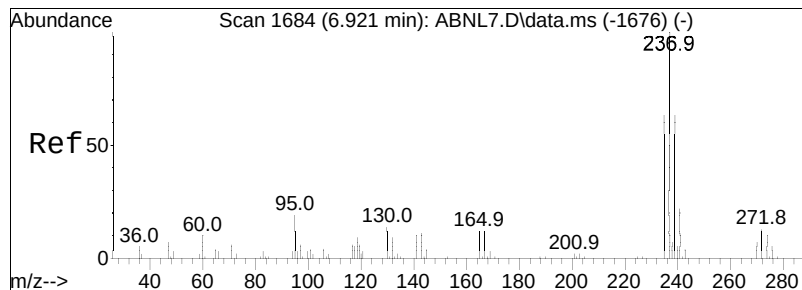




#44
 1-Methylnaphthalene
 Concen: 4.77 ug/ml
 RT: 6.678 min Scan# 1654
 Delta R.T. 0.000 min
 Lab File: ABN0621.D
 Acq: 21 Jun 2025 6:27 am

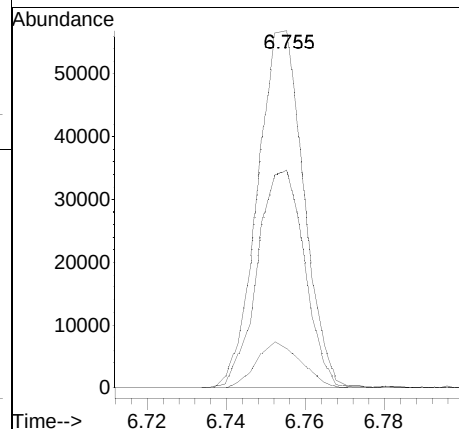
Tgt Ion	Ratio	Lower	Upper
115	100		
141	268.7	207.8	311.6
142	295.1	226.8	340.2

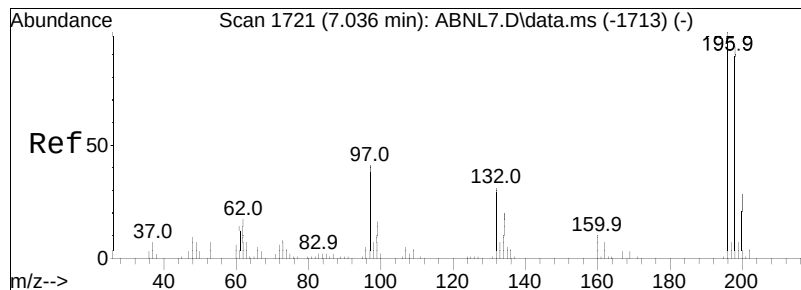




#45
 Hexachlorocyclopentadiene
 Concen: 4.40 ug/ml
 RT: 6.755 min Scan# 1679
 Delta R.T. 0.000 min
 Lab File: ABN0621.D
 Acq: 21 Jun 2025 6:27 am

Tgt Ion	Ratio	Lower	Upper
237	100		
235	62.6	49.7	74.5
272	12.6	9.8	14.6





#46

2,4,6-Trichlorophenol

Concen: 5.16 ug/ml

RT: 6.870 min Scan# 1716

Delta R.T. 0.000 min

Lab File: ABN0621.D

Acq: 21 Jun 2025 6:27 am

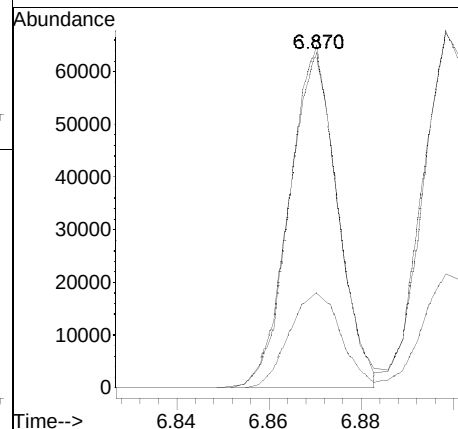
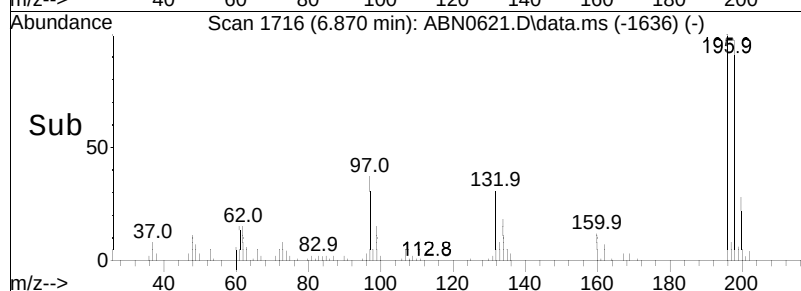
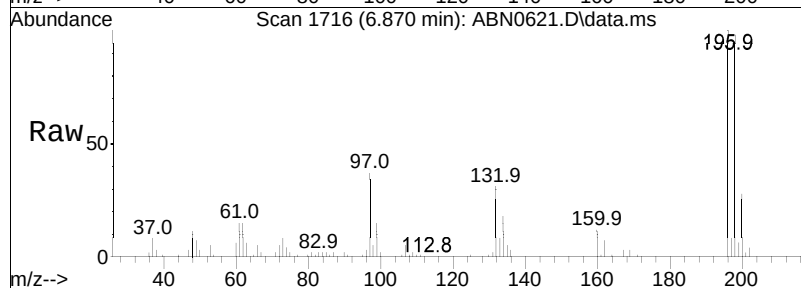
Tgt Ion:196 Resp: 46639

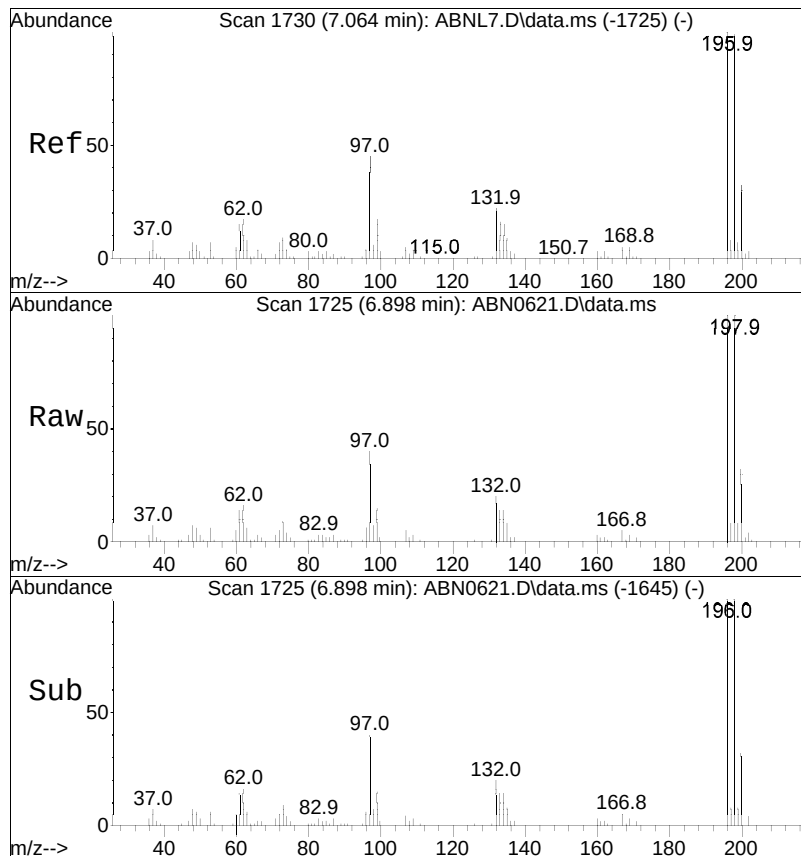
Ion Ratio Lower Upper

196 100

198 101.4 77.5 116.3

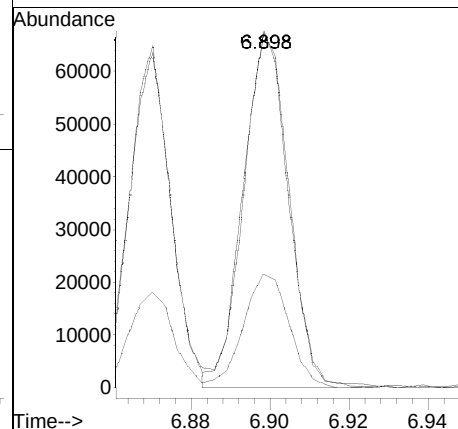
200 30.2 23.8 35.6

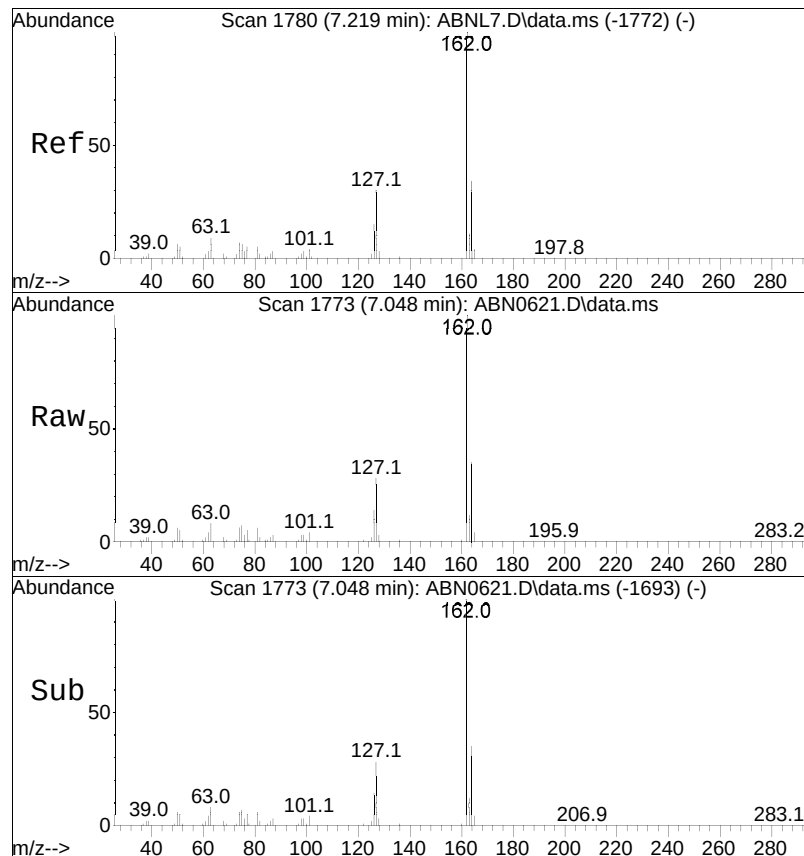




#47
 2,4,5-Trichlorophenol
 Concen: 5.36 ug/ml
 RT: 6.898 min Scan# 1725
 Delta R.T. 0.000 min
 Lab File: ABN0621.D
 Acq: 21 Jun 2025 6:27 am

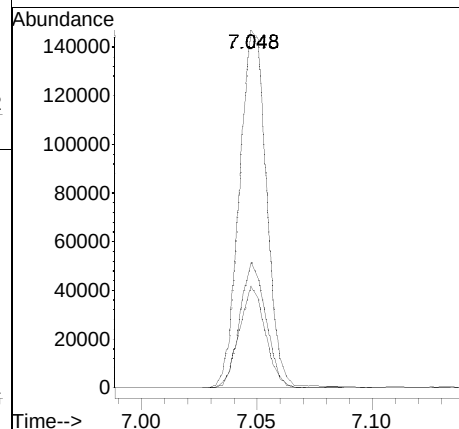
Tgt Ion:	196	Resp:	53817
Ion Ratio	Lower	Upper	
196	100		
200	32.2	25.4	38.0
198	97.2	78.0	117.0

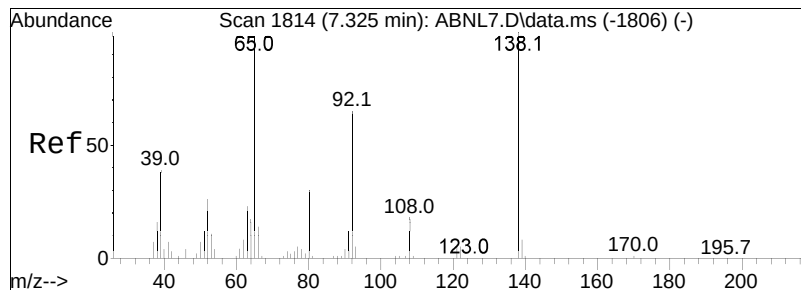




#49
 2-Chloronaphthalene
 Concen: 4.65 ug/ml
 RT: 7.048 min Scan# 1773
 Delta R.T. 0.000 min
 Lab File: ABN0621.D
 Acq: 21 Jun 2025 6:27 am

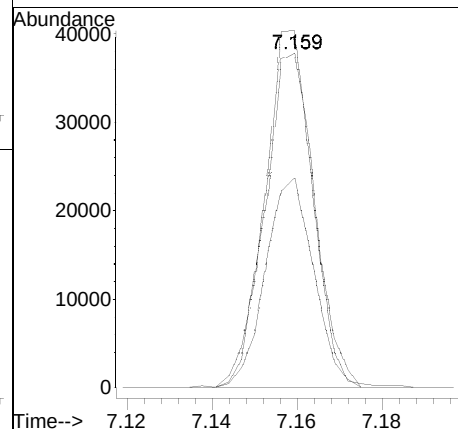
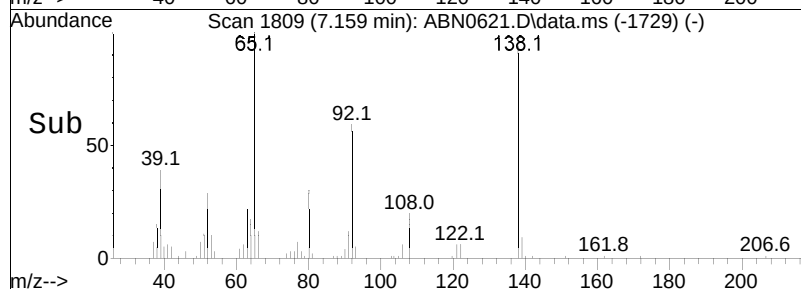
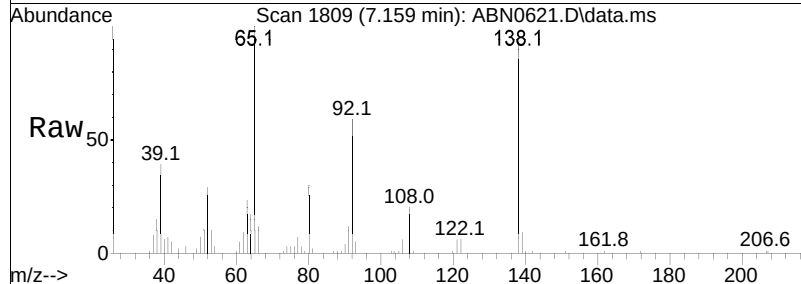
Tgt	Ion:162	Resp:	119606
Ion	Ratio	Lower	Upper
162	100		
127	27.5	32.2	48.4#
164	33.5	25.7	38.5

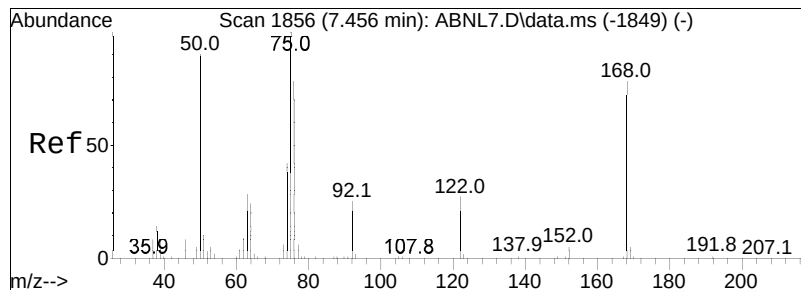




#50
 2-Nitroaniline
 Concen: 4.66 ug/ml
 RT: 7.159 min Scan# 1809
 Delta R.T. 0.000 min
 Lab File: ABN0621.D
 Acq: 21 Jun 2025 6:27 am

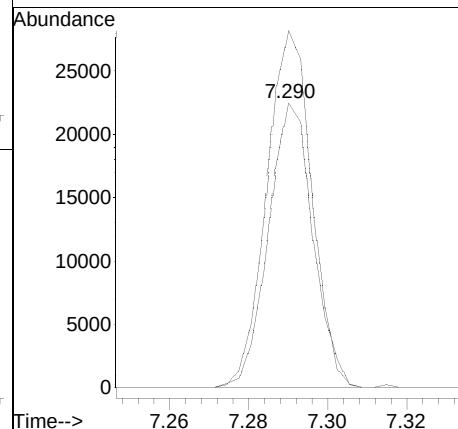
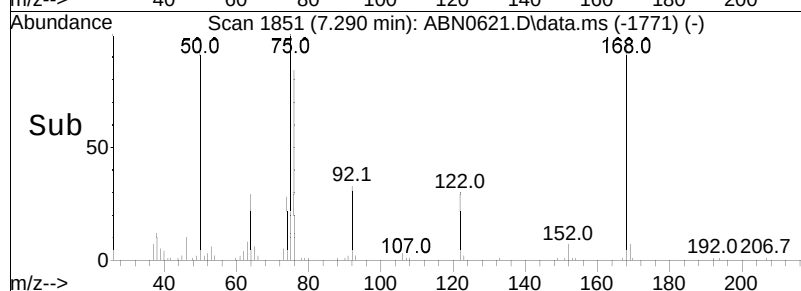
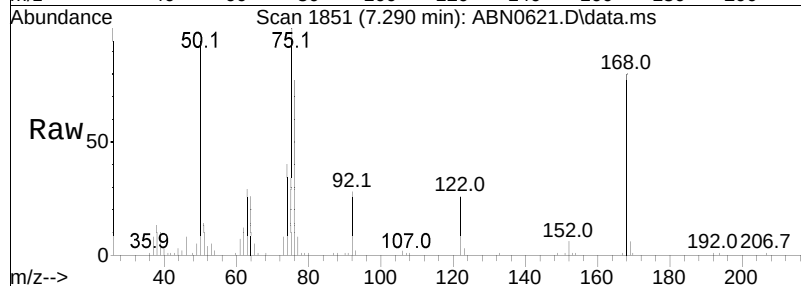
Tgt Ion	Ratio	Resp	Lower	Upper
138	100	30542		
92	60.8		53.5	80.3
65	102.9		86.3	129.5

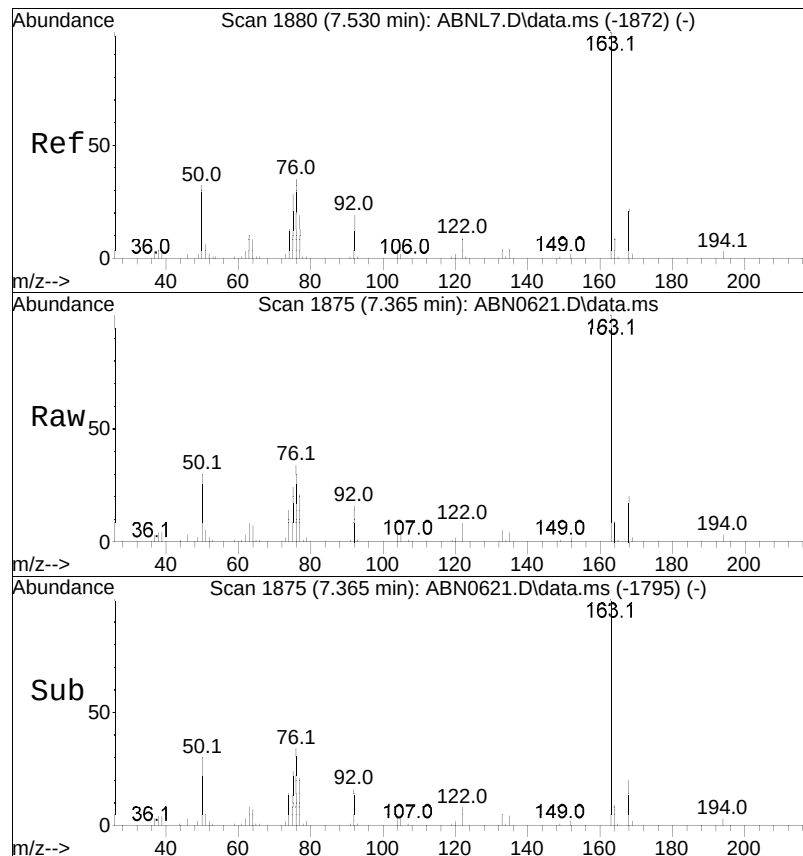




#51
 1,4-Dinitrobenzene
 Concen: 5.19 ug/ml
 RT: 7.290 min Scan# 1851
 Delta R.T. 0.000 min
 Lab File: ABN0621.D
 Acq: 21 Jun 2025 6:27 am

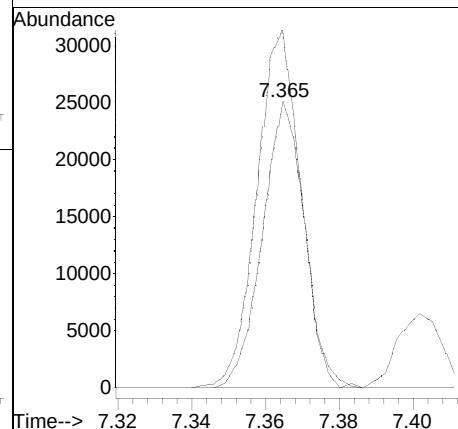
Tgt Ion	Ratio	Lower	Upper
168	100		
75	127.0	121.8	182.8

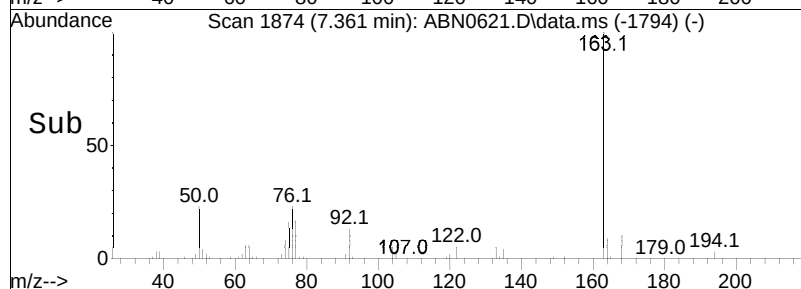
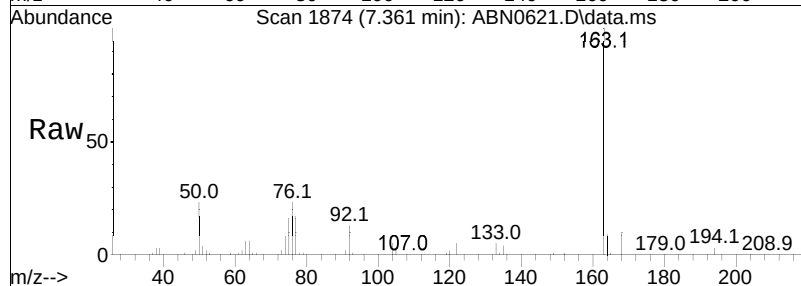
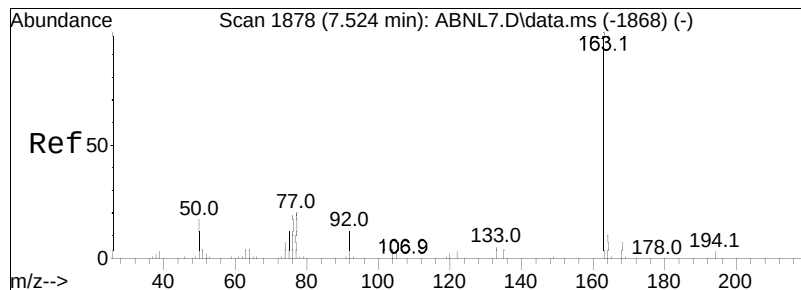




#52
 1,3-Dinitrobenzene
 Concen: 4.79 ug/ml
 RT: 7.365 min Scan# 1875
 Delta R.T. 0.000 min
 Lab File: ABN0621.D
 Acq: 21 Jun 2025 6:27 am

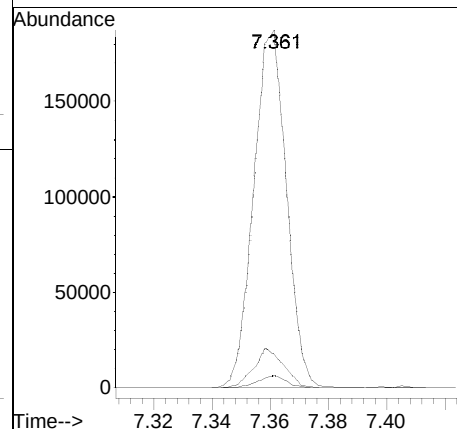
Tgt Ion:168 Resp: 19783
 Ion Ratio Lower Upper
 168 100
 75 129.7 22.7 34.1#

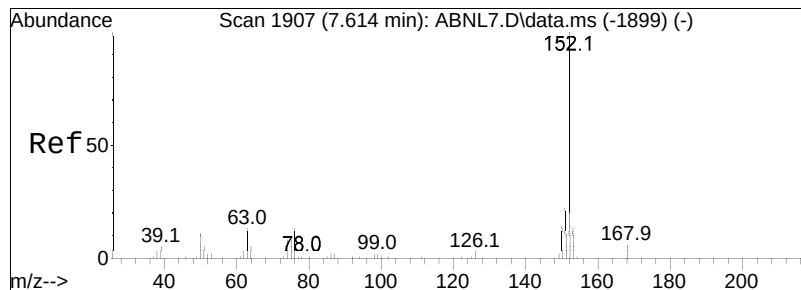




#53
 Dimethyl phthalate
 Concen: 4.67 ug/ml
 RT: 7.361 min Scan# 1874
 Delta R.T. 0.000 min
 Lab File: ABN0621.D
 Acq: 21 Jun 2025 6:27 am

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.1	3.5	5.3#
164	10.3	7.9	11.9





#54

Acenaphthylene

Concen: 4.63 ug/ml

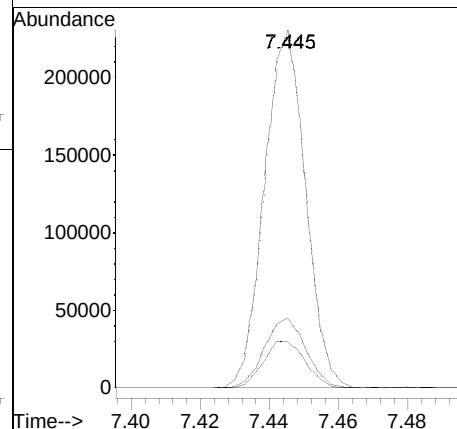
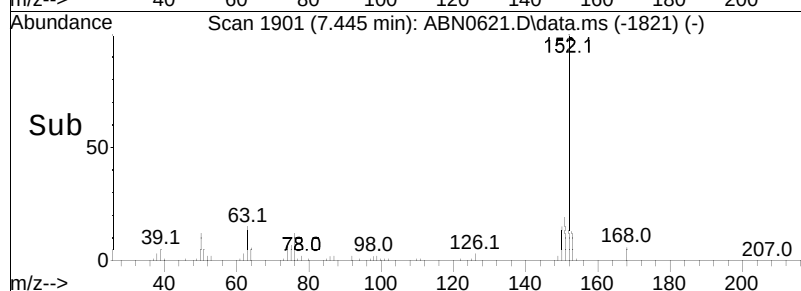
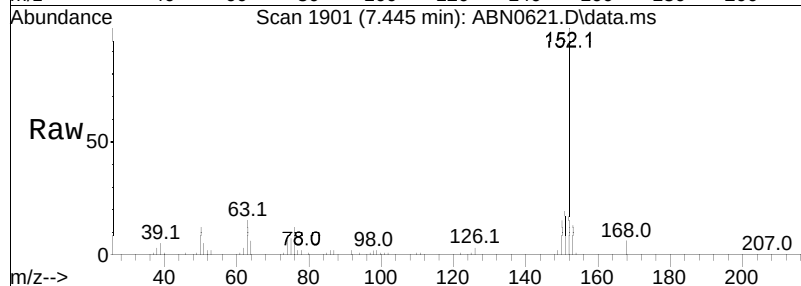
RT: 7.445 min Scan# 1901

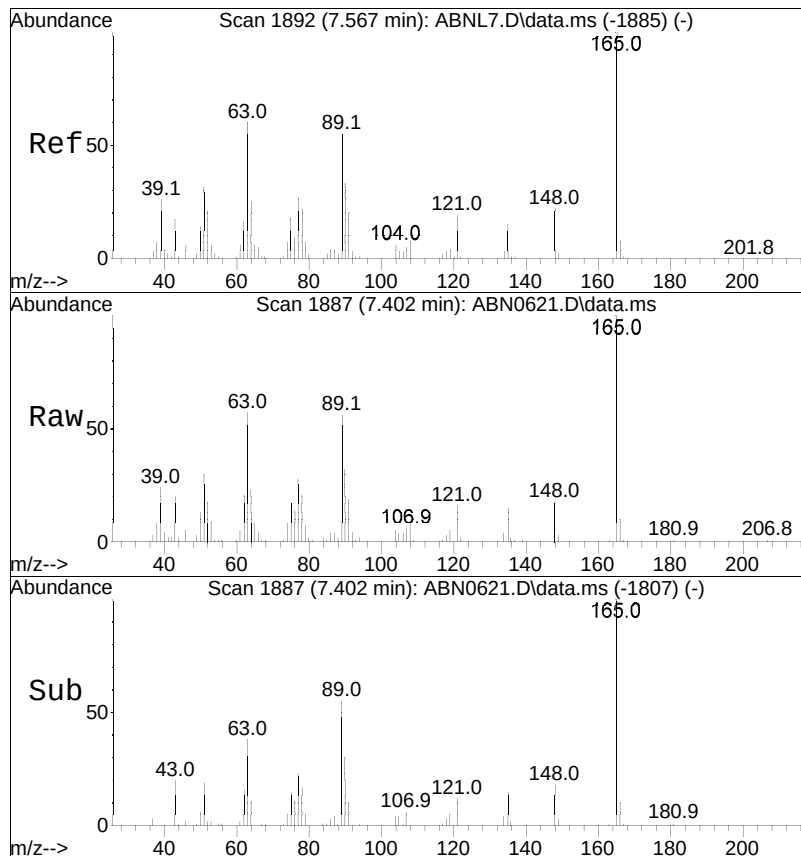
Delta R.T. 0.000 min

Lab File: ABN0621.D

Acq: 21 Jun 2025 6:27 am

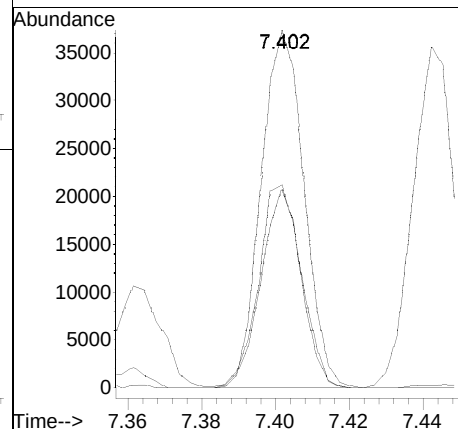
Tgt	Ion:152	Resp:	188393
Ion	Ratio	Lower	Upper
152	100		
151	19.9	15.8	23.6
153	13.6	10.5	15.7

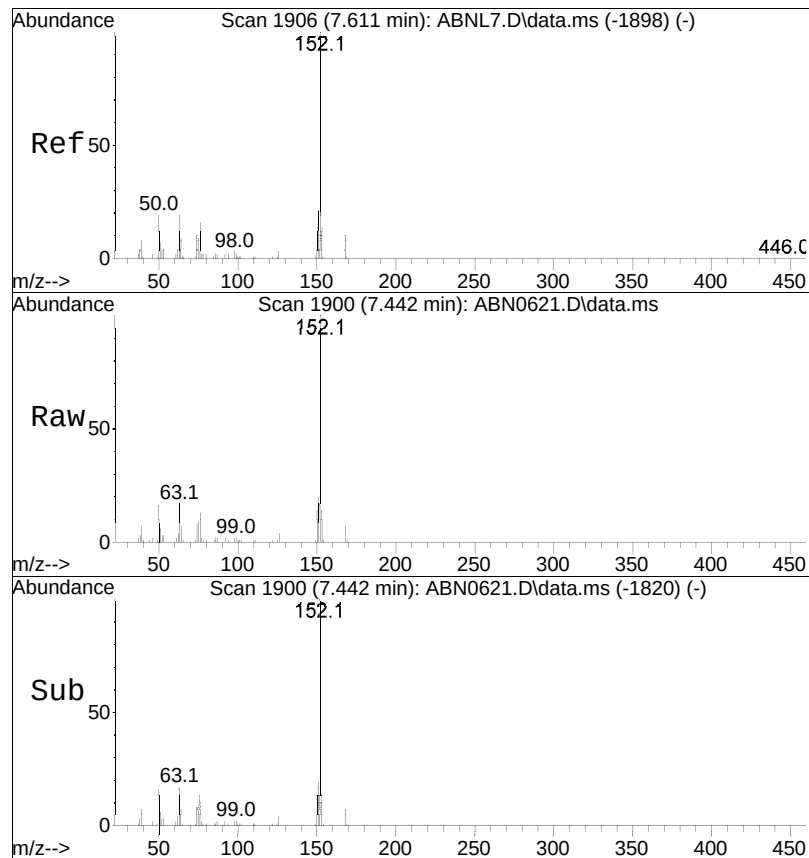




#55
 2,6-Dinitrotoluene
 Concen: 4.86 ug/ml
 RT: 7.402 min Scan# 1887
 Delta R.T. 0.000 min
 Lab File: ABN0621.D
 Acq: 21 Jun 2025 6:27 am

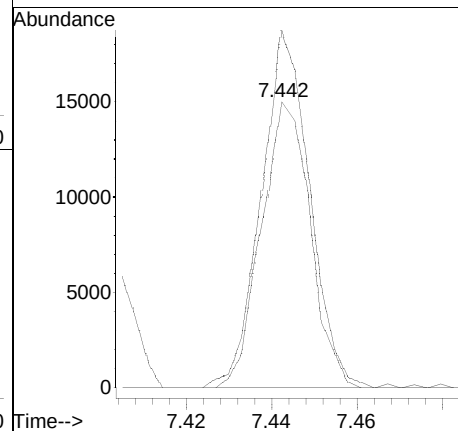
Tgt Ion:	165	Resp:	30160
Ion Ratio	Lower	Upper	
165	100		
89	52.2	54.2	81.2#
63	56.7	64.2	96.2#

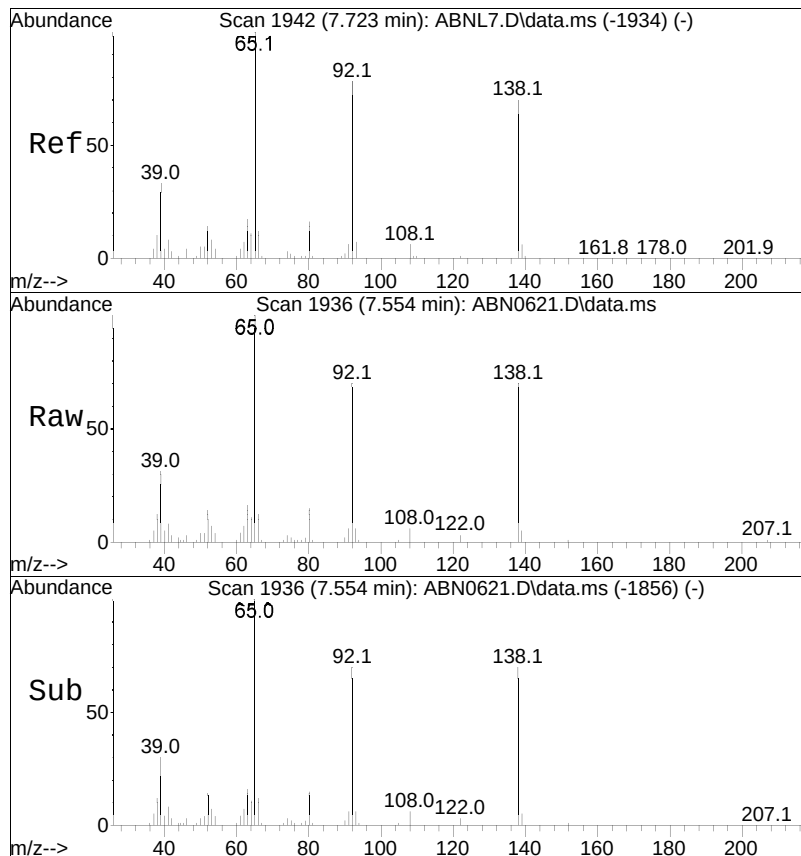




#56
 1,2-Dinitrobenzene
 Concen: 4.62 ug/ml
 RT: 7.442 min Scan# 1900
 Delta R.T. 0.000 min
 Lab File: ABN0621.D
 Acq: 21 Jun 2025 6:27 am

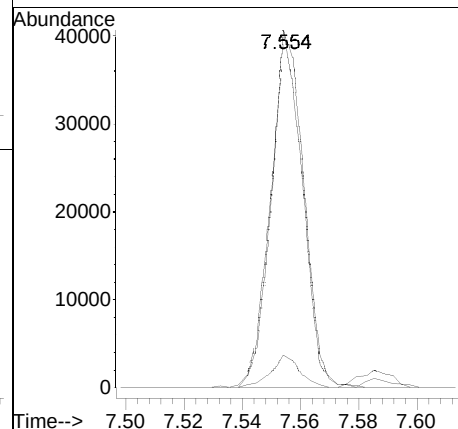
Tgt Ion	Ratio	Lower	Upper
168	100		
75	123.9	30.9	46.3#

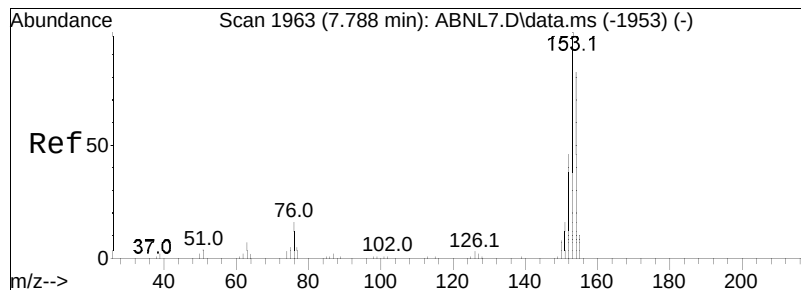




#66
 3-Nitroaniline
 Concen: 4.76 ug/ml
 RT: 7.554 min Scan# 1936
 Delta R.T. 0.000 min
 Lab File: ABN0621.D
 Acq: 21 Jun 2025 6:27 am

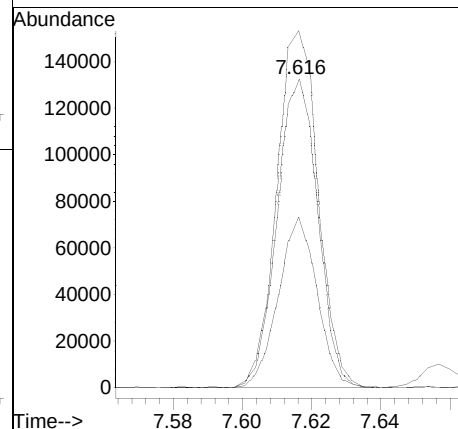
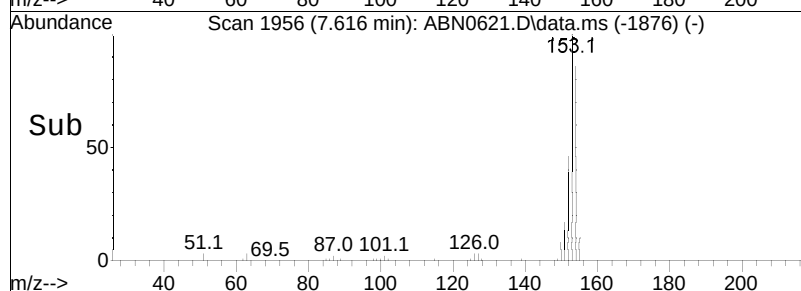
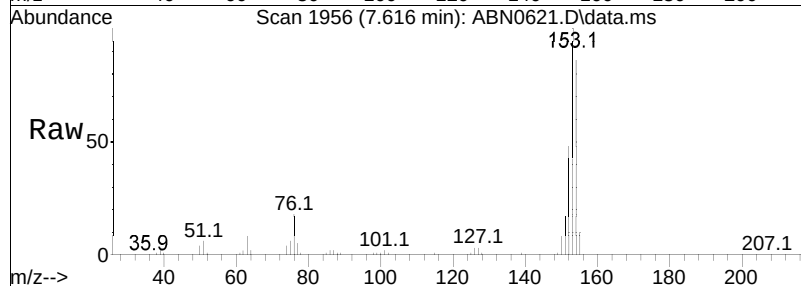
Tgt Ion	Ratio	Resp	Lower	Upper
138	100	29698		
92	106.8		93.4	140.2
108	8.5		9.5	14.3#

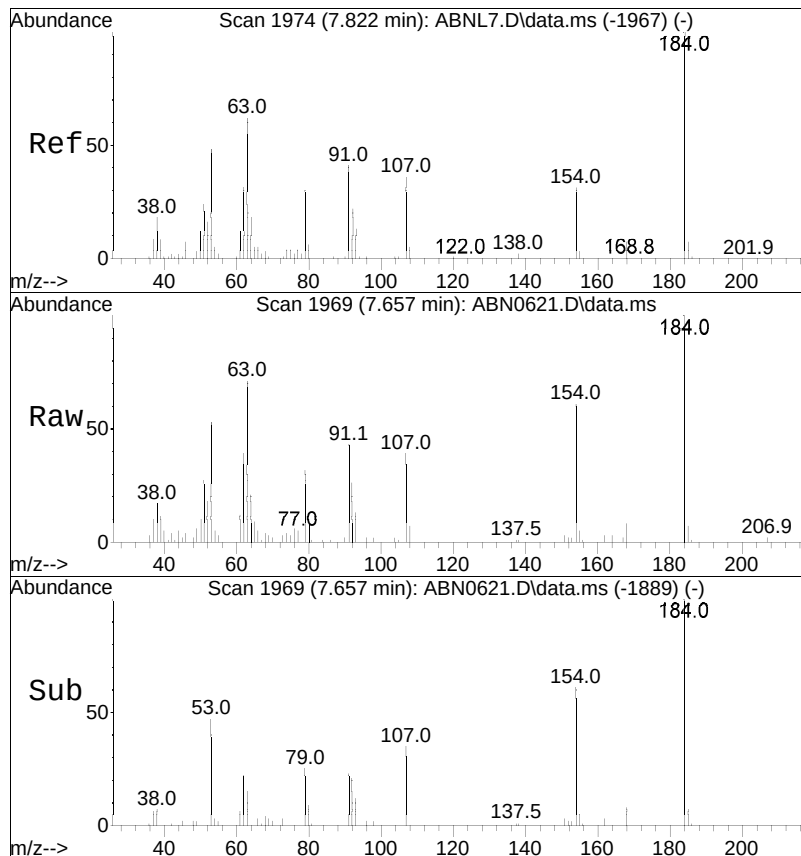




#67
 Acenaphthene
 Concen: 4.52 ug/ml
 RT: 7.616 min Scan# 1956
 Delta R.T. 0.000 min
 Lab File: ABN0621.D
 Acq: 21 Jun 2025 6:27 am

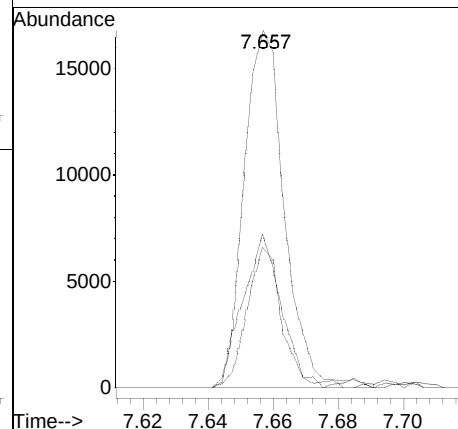
Tgt Ion	Ratio	Lower	Upper
154	100		
153	118.0	85.3	127.9
152	53.4	41.4	62.0

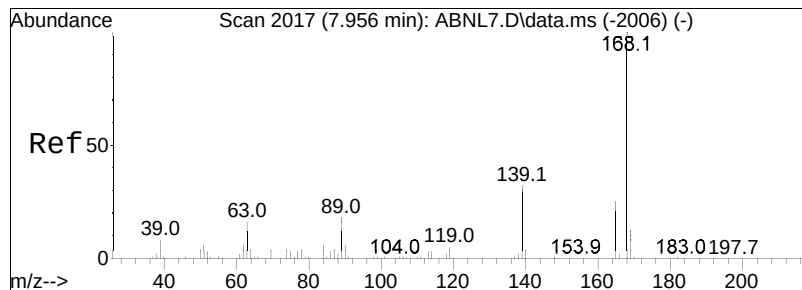




#68
 2,4-Dinitrophenol
 Concen: 3.43 ug/ml
 RT: 7.657 min Scan# 1969
 Delta R.T. 0.000 min
 Lab File: ABN0621.D
 Acq: 21 Jun 2025 6:27 am

Tgt Ion:	184	Resp:	14407
Ion Ratio	Lower	Upper	
184	100		
107	34.3	37.7	56.5#
91	40.8	46.3	69.5#





#69

Dibenzofuran

Concen: 4.42 ug/ml

RT: 7.784 min Scan# 2010

Delta R.T. 0.000 min

Lab File: ABN0621.D

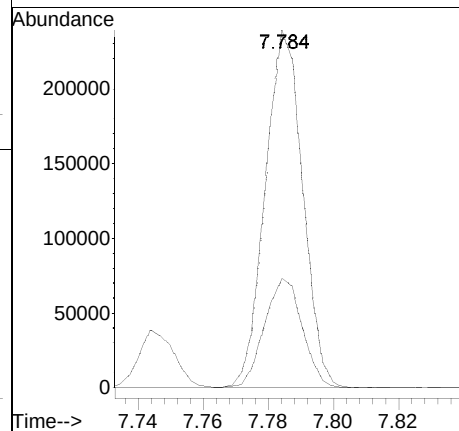
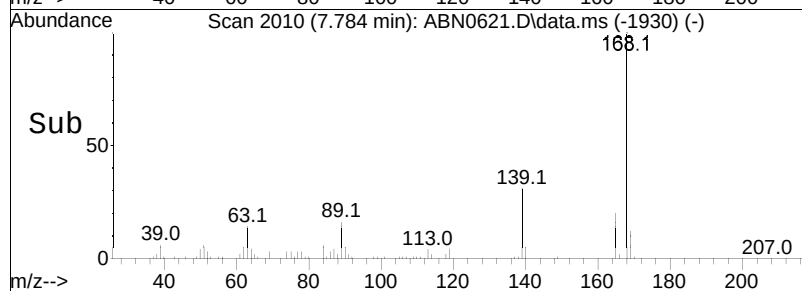
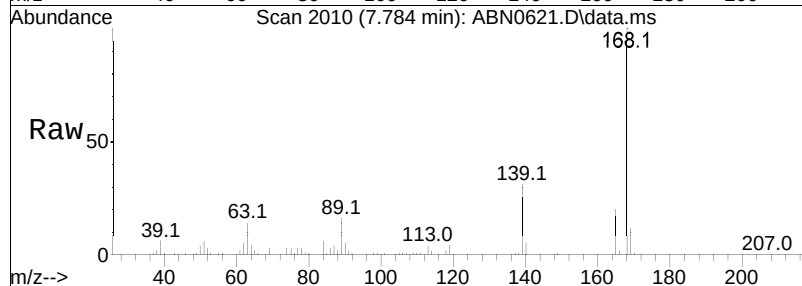
Acq: 21 Jun 2025 6:27 am

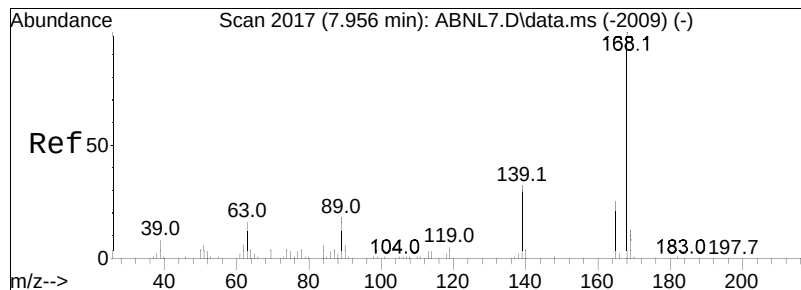
Tgt Ion:168 Resp: 189720

Ion Ratio Lower Upper

168 100

139 31.1 31.4 47.2#





#70

2,4-Dinitrotoluene

Concen: 4.81 ug/ml

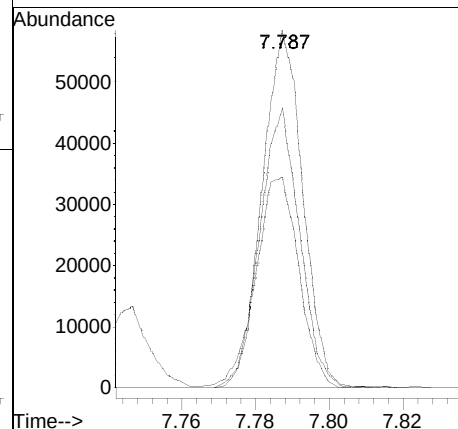
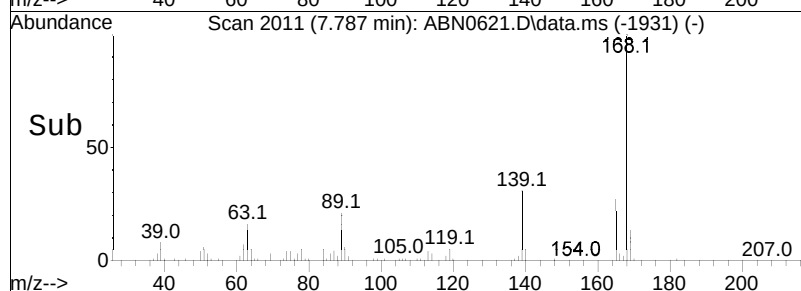
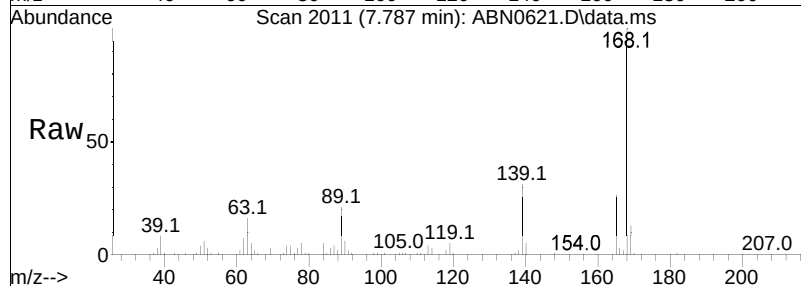
RT: 7.787 min Scan# 2011

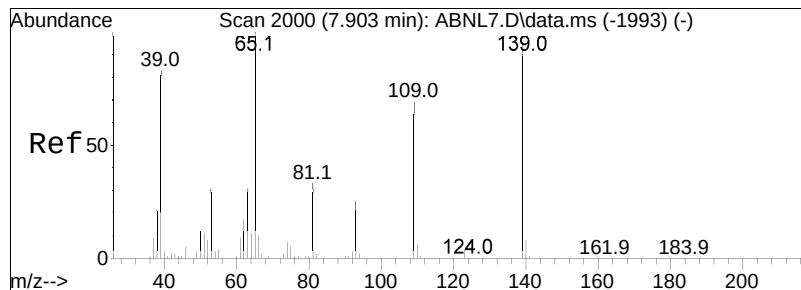
Delta R.T. 0.000 min

Lab File: ABN0621.D

Acq: 21 Jun 2025 6:27 am

Tgt	Ion:165	Resp:	44147
Ion	Ratio	Lower	Upper
165	100		
89	77.4	72.0	108.0
63	62.5	52.7	79.1





#71

4-Nitrophenol

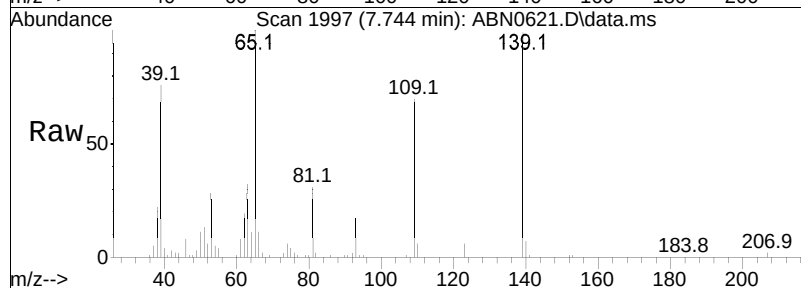
Concen: 5.31 ug/ml

RT: 7.744 min Scan# 1997

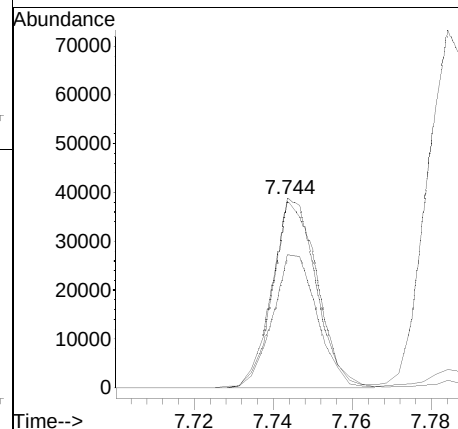
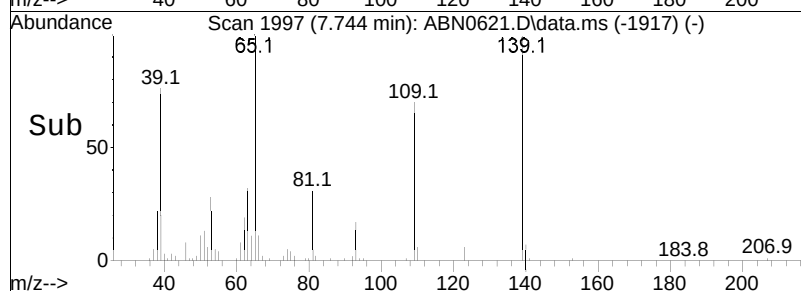
Delta R.T. 0.000 min

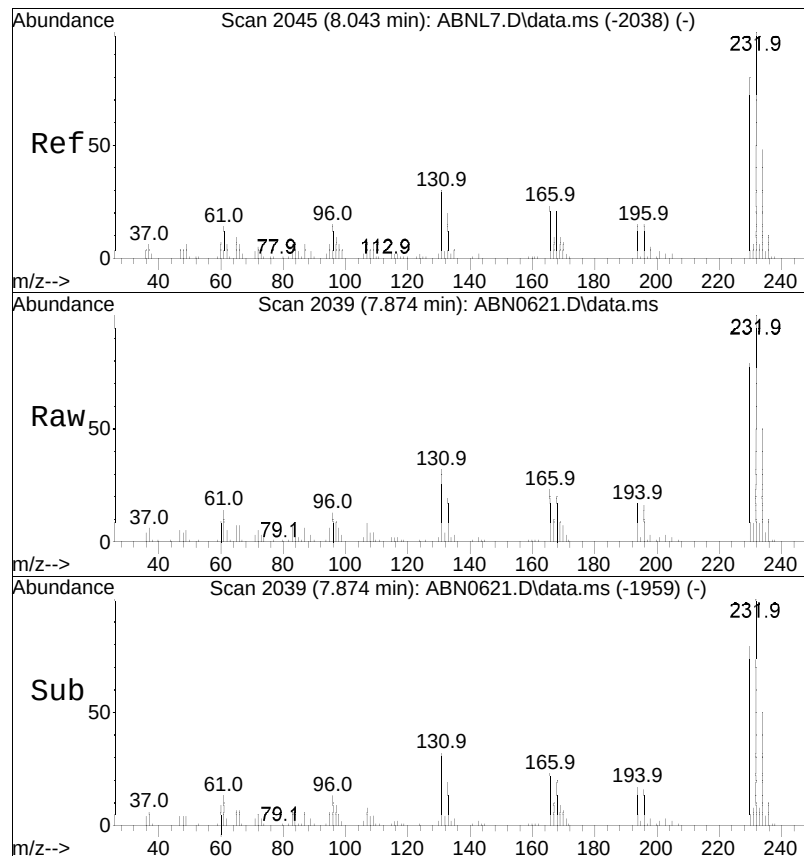
Lab File: ABN0621.D

Acq: 21 Jun 2025 6:27 am



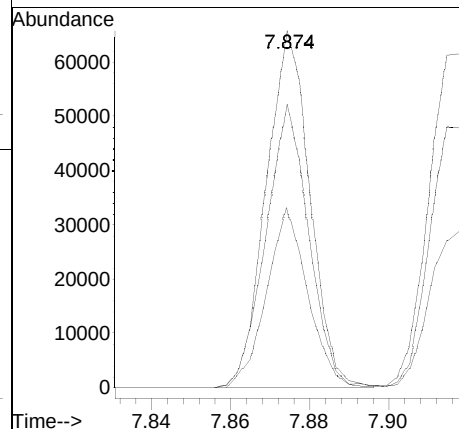
Tgt Ion:	65	Resp:	30065
Ion Ratio	Lower	Upper	
65	100		
109	71.1	47.4	71.2
139	98.9	76.6	115.0

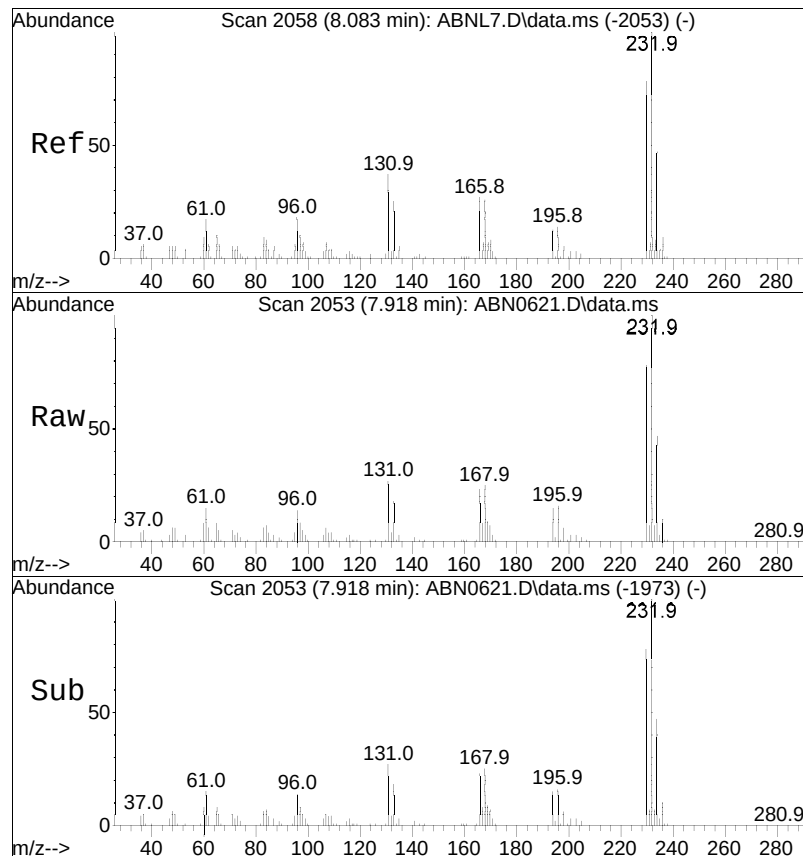




#72
 2,3,5,6-Tetrachlorophenol
 Concen: 5.46 ug/ml
 RT: 7.874 min Scan# 2039
 Delta R.T. 0.000 min
 Lab File: ABN0621.D
 Acq: 21 Jun 2025 6:27 am

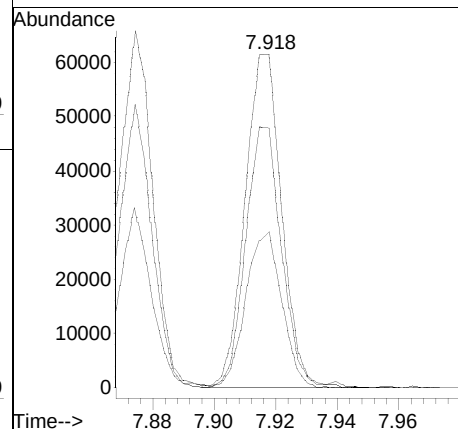
Tgt Ion:	232	Resp:	50647
Ion Ratio	Lower	Upper	
232	100		
230	78.2	64.2	96.4
234	47.7	38.1	57.1

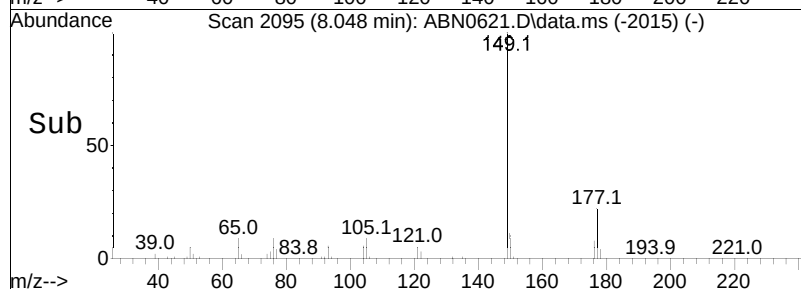
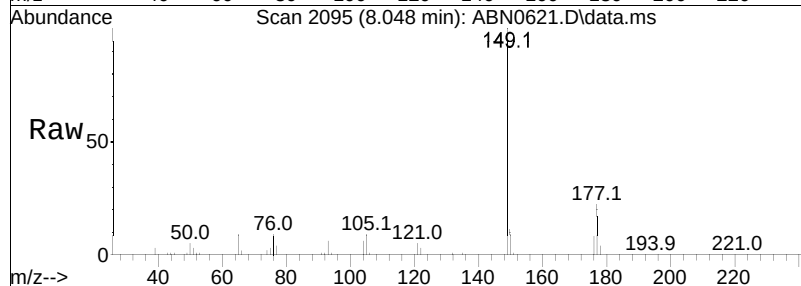
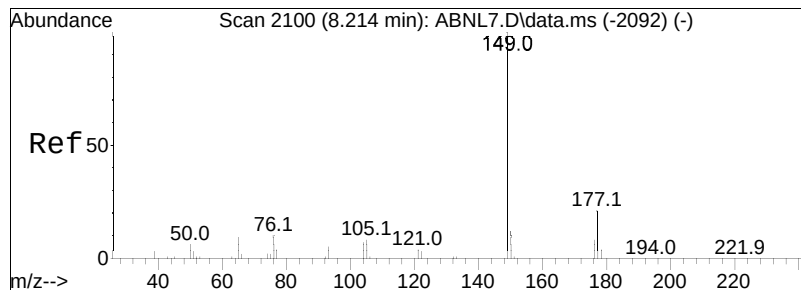




#73
 2,3,4,6-Tetrachlorophenol
 Concen: 5.59 ug/ml
 RT: 7.918 min Scan# 2053
 Delta R.T. 0.000 min
 Lab File: ABN0621.D
 Acq: 21 Jun 2025 6:27 am

Tgt Ion	Ratio	Lower	Upper
232	100		
230	76.7	61.8	92.8
234	46.2	36.2	54.2





#74

Diethyl phthalate

Concen: 4.24 ug/ml

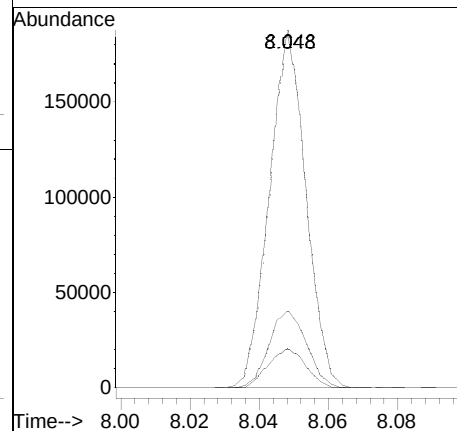
RT: 8.048 min Scan# 2095

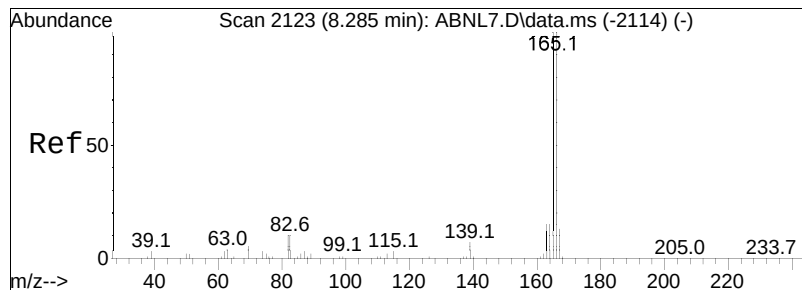
Delta R.T. 0.000 min

Lab File: ABN0621.D

Acq: 21 Jun 2025 6:27 am

Tgt Ion:	149	Resp:	136232
Ion Ratio	Lower	Upper	
149	100		
177	22.2	16.1	24.1
150	11.5	9.4	14.2





#75

Fluorene

Concen: 4.43 ug/ml

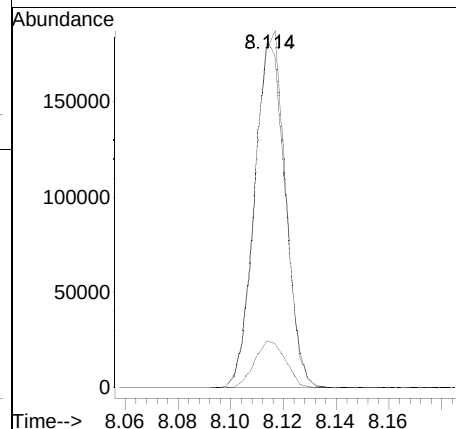
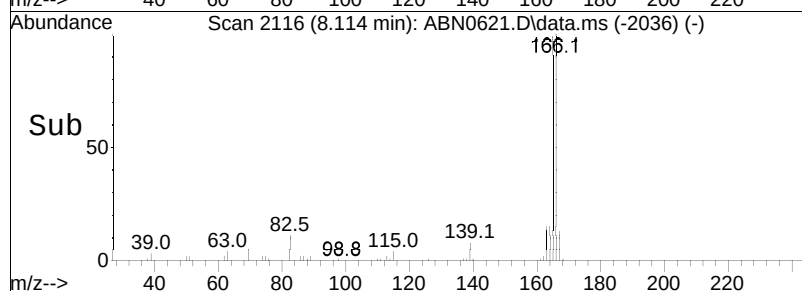
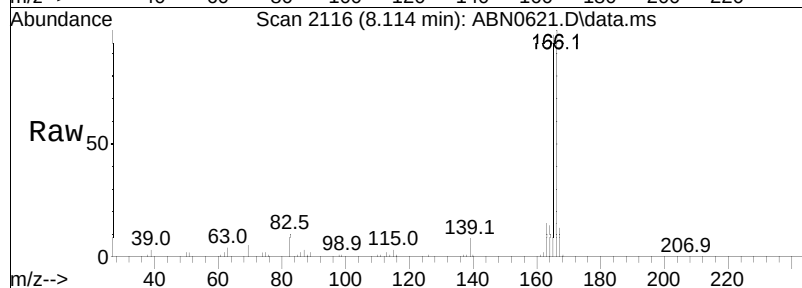
RT: 8.114 min Scan# 2116

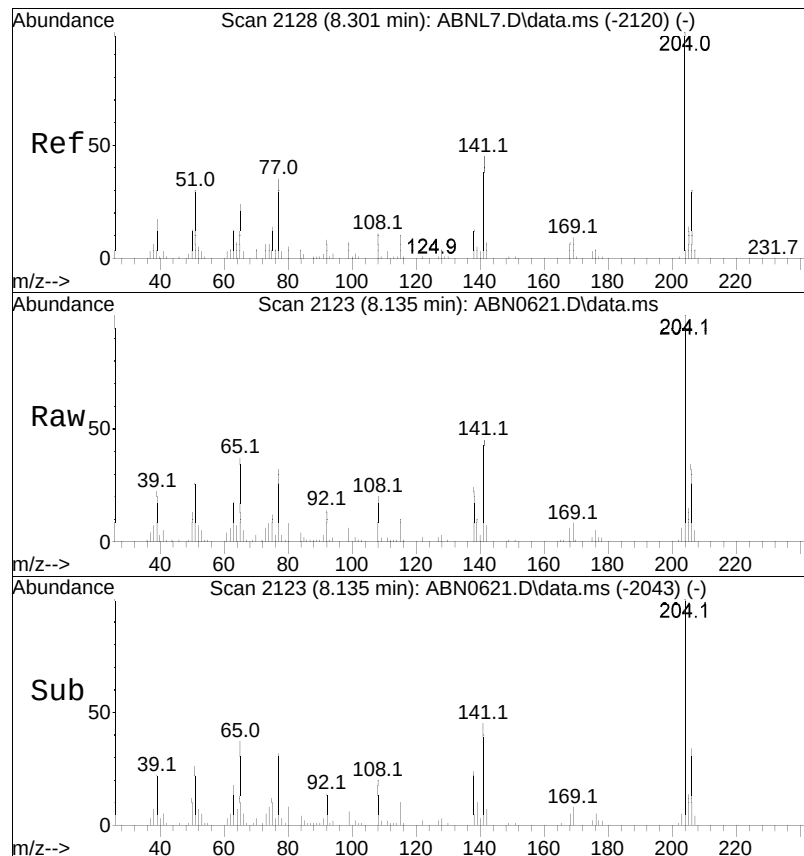
Delta R.T. 0.000 min

Lab File: ABN0621.D

Acq: 21 Jun 2025 6:27 am

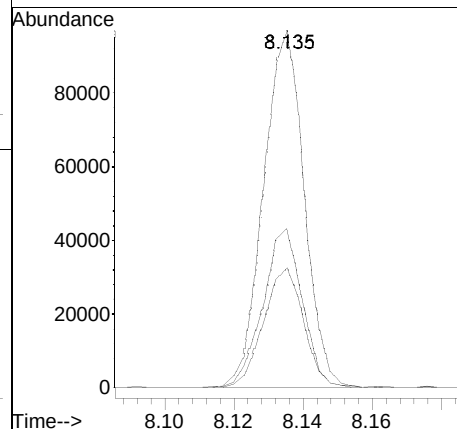
Tgt	Ion	Ratio	Lower	Upper
166	100			
165	101.8	76.2	114.2	
167	13.9	10.6	15.8	

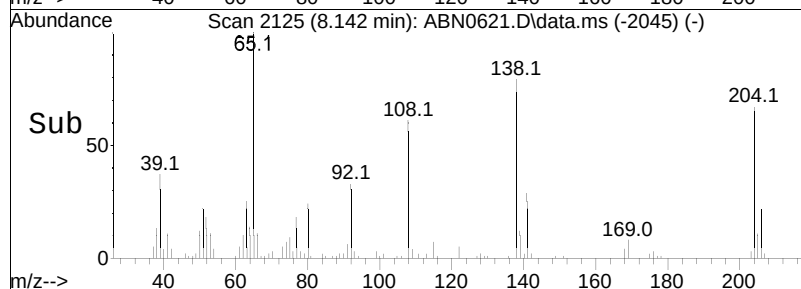
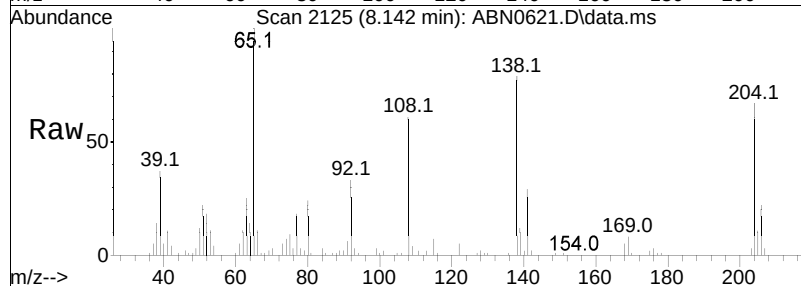
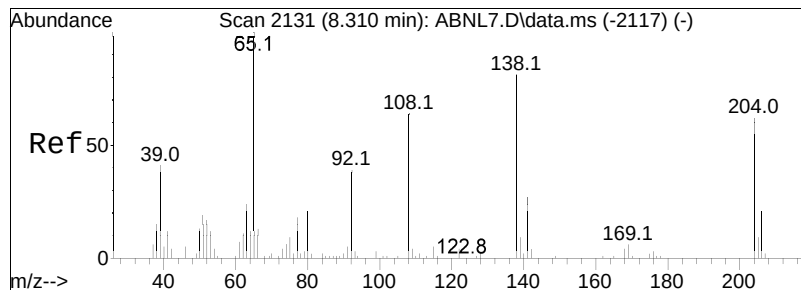




#76
 4-Chlorophenyl phenyl ether
 Concen: 4.53 ug/ml
 RT: 8.135 min Scan# 2123
 Delta R.T. 0.000 min
 Lab File: ABN0621.D
 Acq: 21 Jun 2025 6:27 am

Tgt Ion:	204	Resp:	78449
Ion Ratio	Lower	Upper	
204	100		
206	33.2	25.8	38.6
141	43.5	53.6	80.4#





#77

4-Nitroaniline

Concen: 4.90 ug/ml

RT: 8.142 min Scan# 2125

Delta R.T. 0.000 min

Lab File: ABN0621.D

Acq: 21 Jun 2025 6:27 am

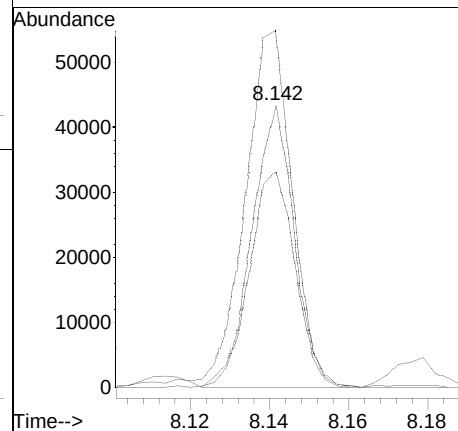
Tgt Ion:138 Resp: 32147

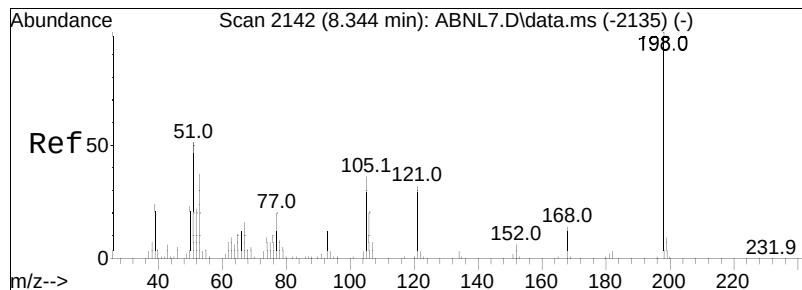
Ion Ratio Lower Upper

138 100

108 82.3 52.1 78.1#

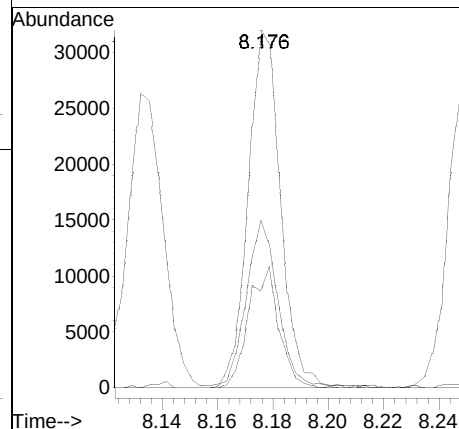
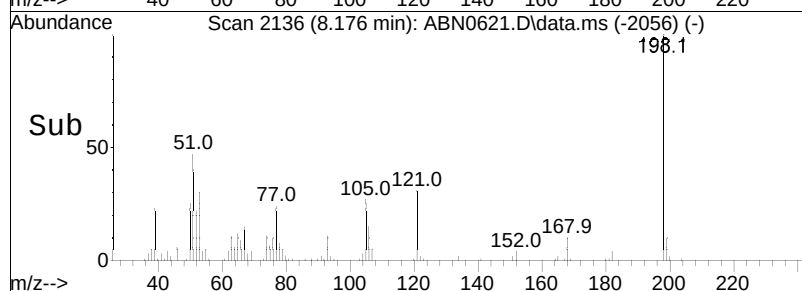
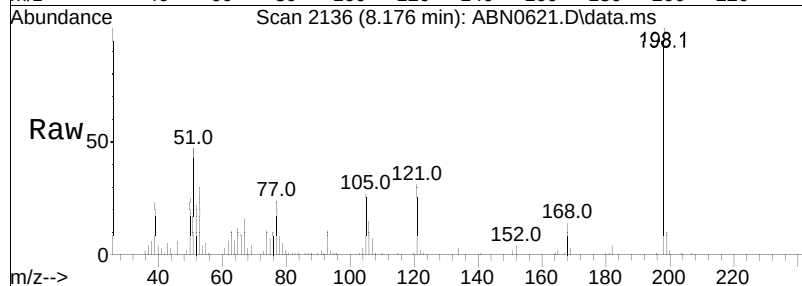
65 142.7 115.0 172.6

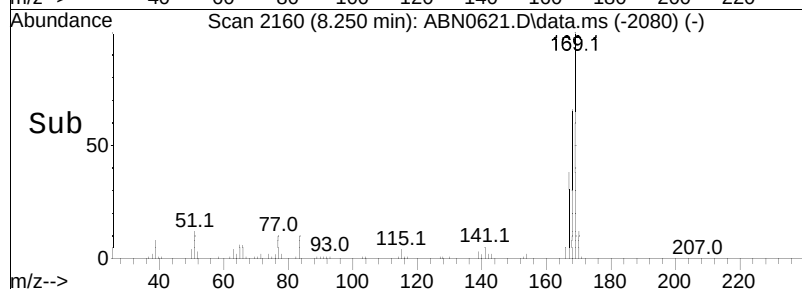
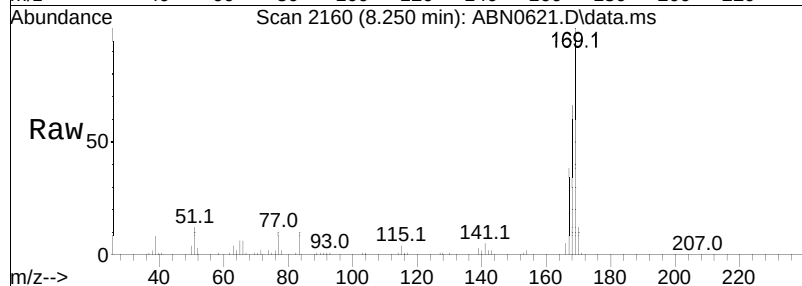
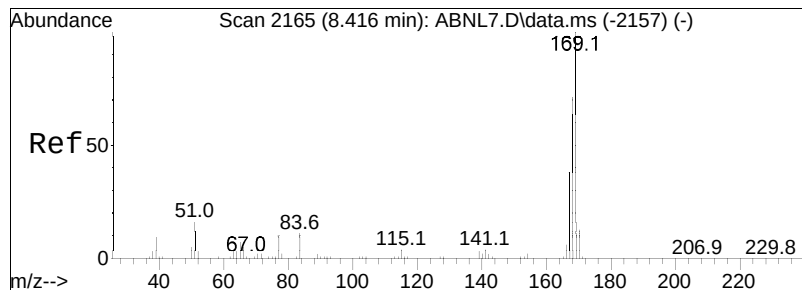




#78
 4,6-Dinitro-o-cresol
 Concen: 4.61 ug/ml
 RT: 8.176 min Scan# 2136
 Delta R.T. 0.000 min
 Lab File: ABN0621.D
 Acq: 21 Jun 2025 6:27 am

Tgt Ion	Ratio	Lower	Upper
198	100		
51	46.3	76.0	114.0#
105	31.7	45.6	68.4#





#79

NDPA/DPA

Concen: 4.59 ug/ml

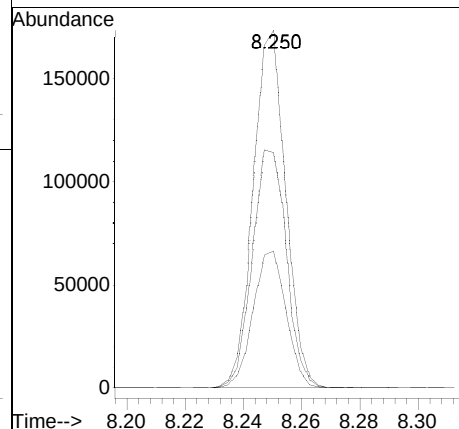
RT: 8.250 min Scan# 2160

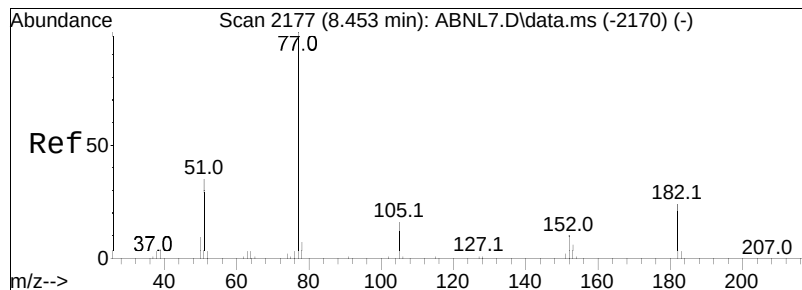
Delta R.T. 0.000 min

Lab File: ABN0621.D

Acq: 21 Jun 2025 6:27 am

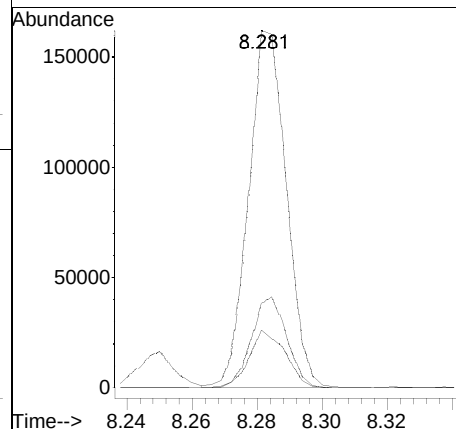
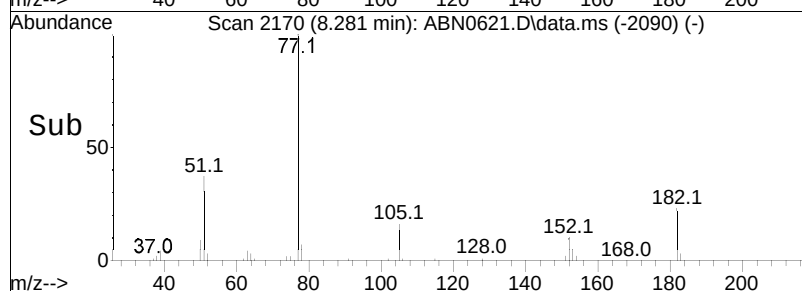
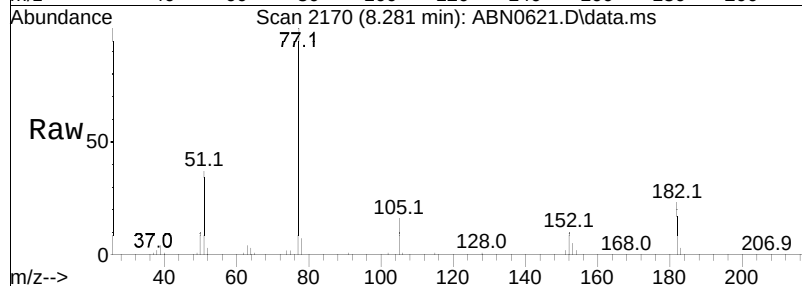
Tgt	Ion	Ratio	Lower	Upper
169	100			
168	69.6	54.0	81.0	
167	39.0	28.6	42.8	

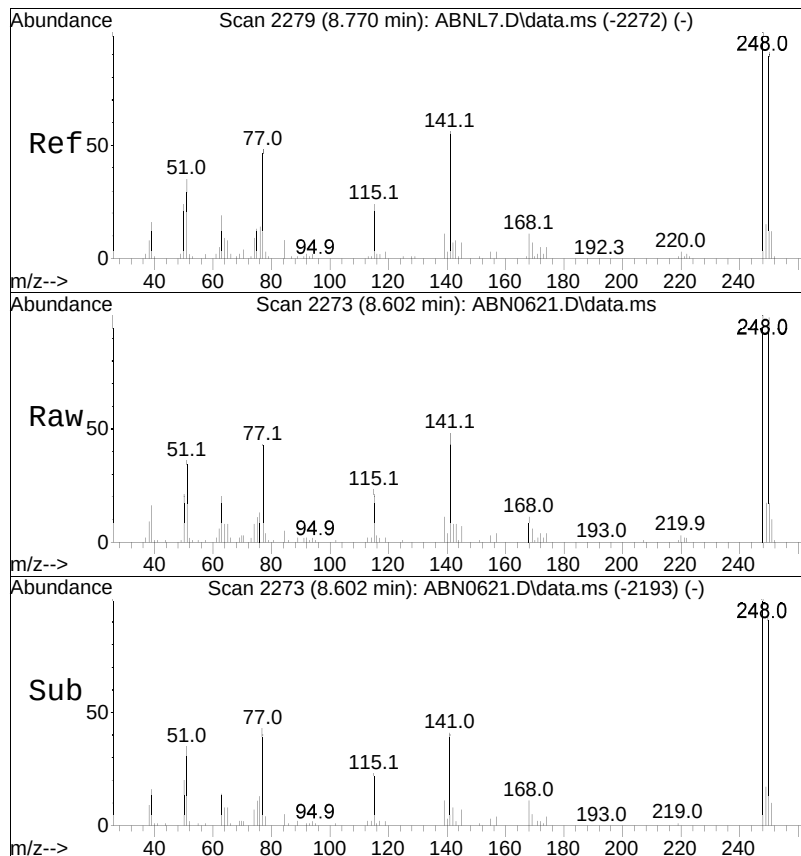




#80
 Azobenzene
 Concen: 4.36 ug/ml
 RT: 8.281 min Scan# 2170
 Delta R.T. 0.000 min
 Lab File: ABN0621.D
 Acq: 21 Jun 2025 6:27 am

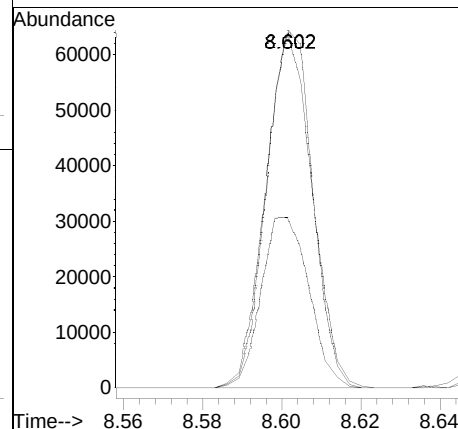
Tgt Ion:	77	182	105
Resp:	129743		
Ion Ratio	100	23.9	15.5
Lower		17.4	15.4
Upper		26.2	23.2

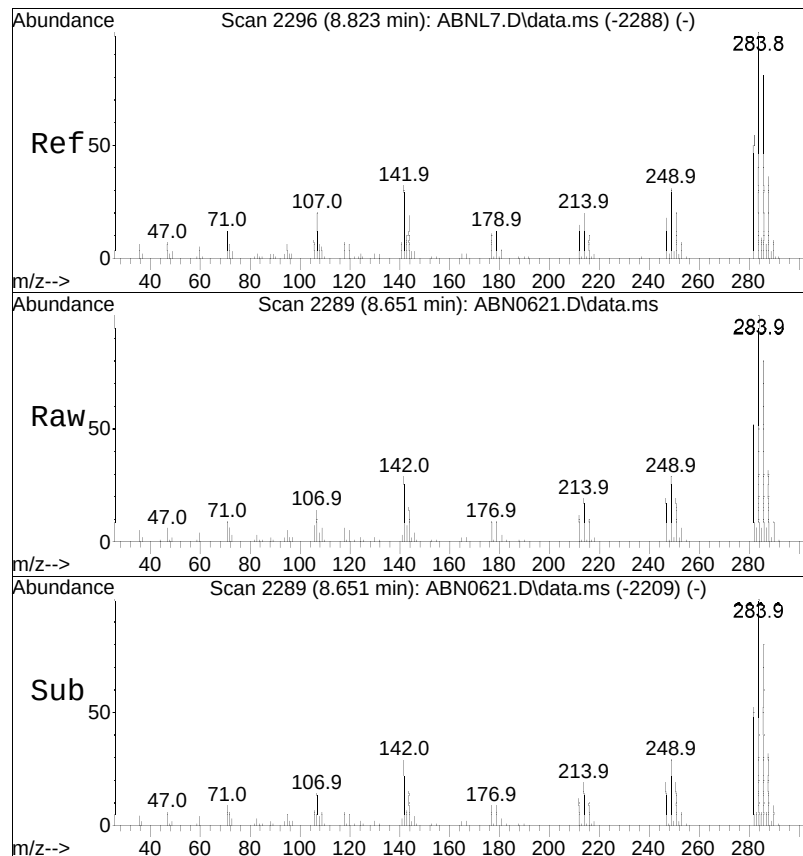




#82
 4-Bromophenyl phenyl ether
 Concen: 4.79 ug/ml
 RT: 8.602 min Scan# 2273
 Delta R.T. 0.000 min
 Lab File: ABN0621.D
 Acq: 21 Jun 2025 6:27 am

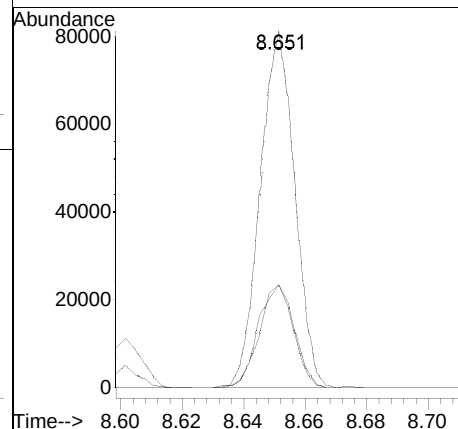
Tgt Ion	Ratio	Lower	Upper
248	100		
141	48.8	76.6	114.8#
250	96.9	77.3	115.9

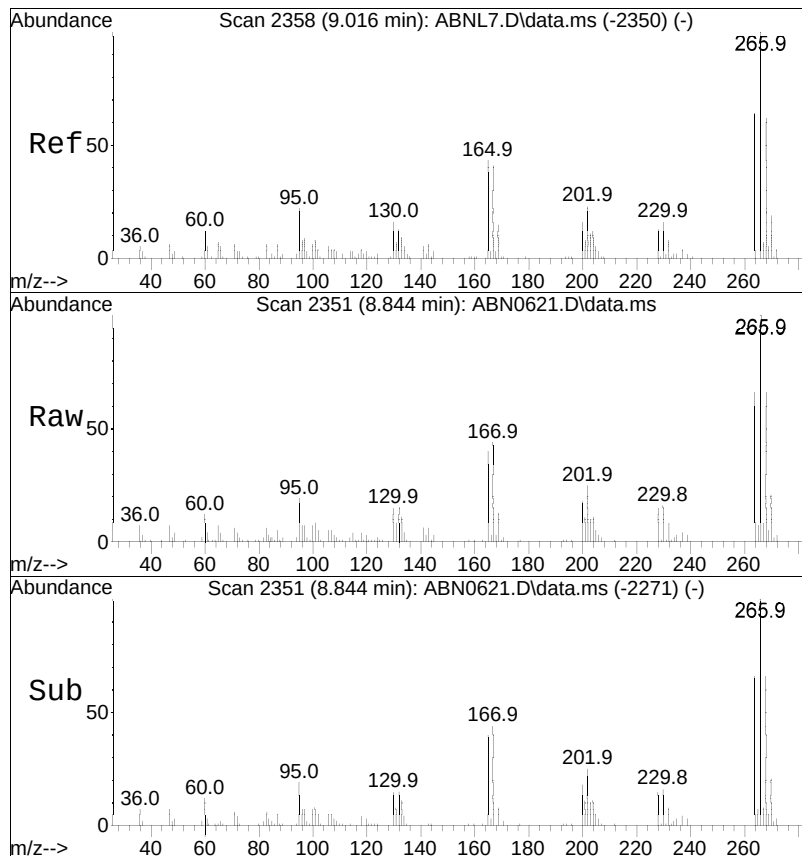




#83
 Hexachlorobenzene
 Concen: 4.95 ug/ml
 RT: 8.651 min Scan# 2289
 Delta R.T. 0.000 min
 Lab File: ABN0621.D
 Acq: 21 Jun 2025 6:27 am

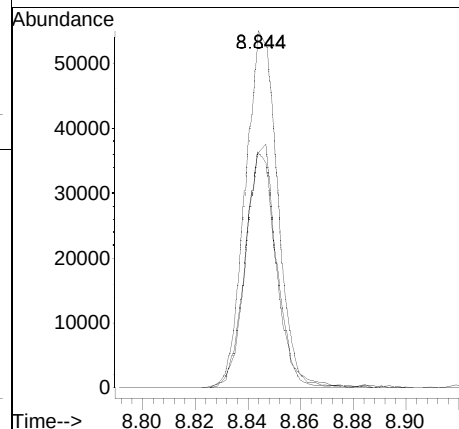
Tgt Ion	Ratio	Lower	Upper
284	100		
142	29.5	41.9	62.9#
249	29.4	24.1	36.1

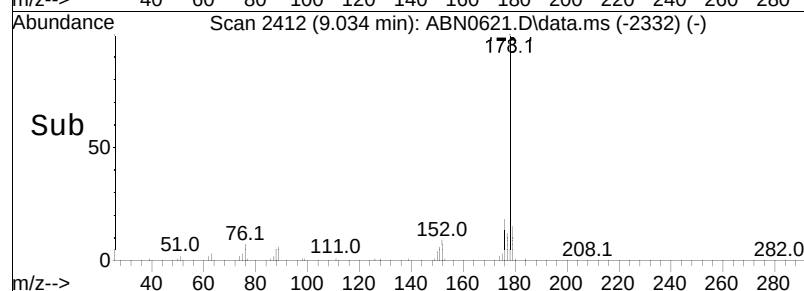
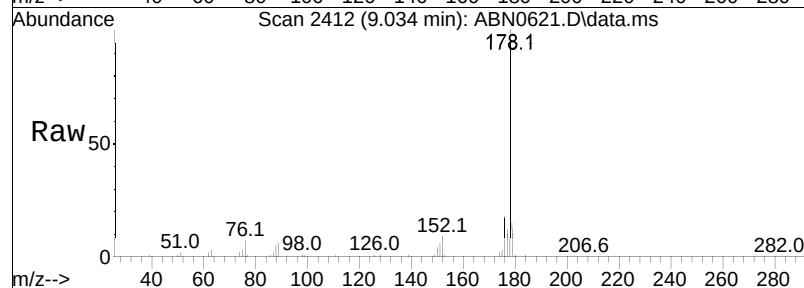
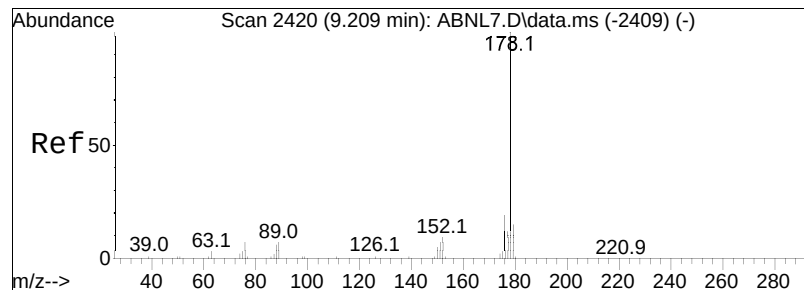




#84
 Pentachlorophenol
 Concen: 6.19 ug/ml
 RT: 8.844 min Scan# 2351
 Delta R.T. 0.000 min
 Lab File: ABN0621.D
 Acq: 21 Jun 2025 6:27 am

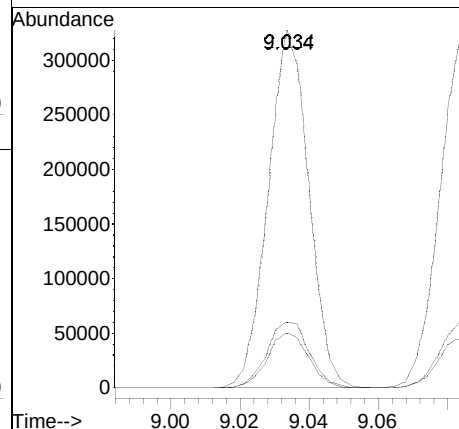
Tgt Ion:	266	Resp:	46941
Ion Ratio	Lower	Upper	
266	100		
264	63.4	49.7	74.5
268	64.8	50.5	75.7

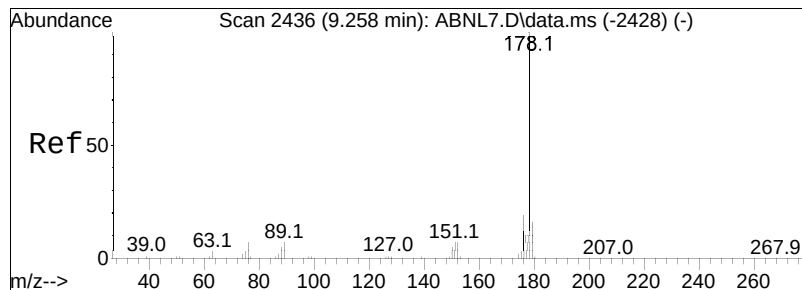




#91
 Phenanthrene
 Concen: 4.28 ug/ml
 RT: 9.034 min Scan# 2412
 Delta R.T. 0.000 min
 Lab File: ABN0621.D
 Acq: 21 Jun 2025 6:27 am

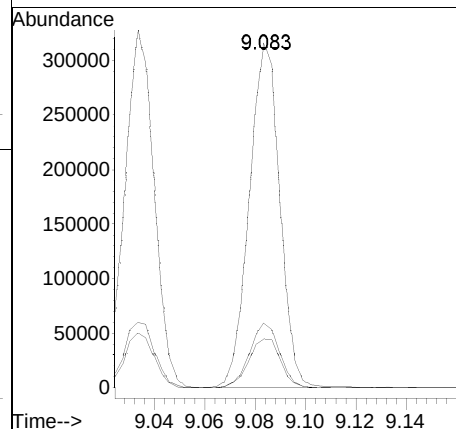
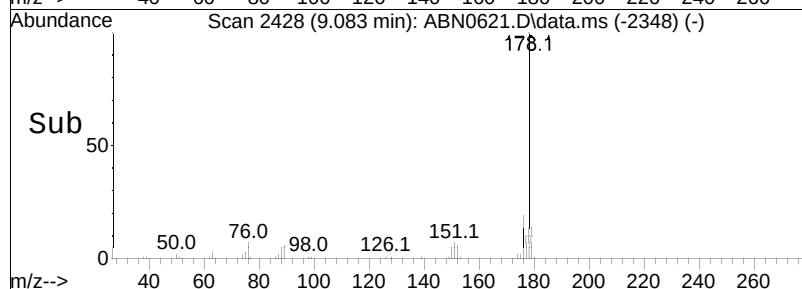
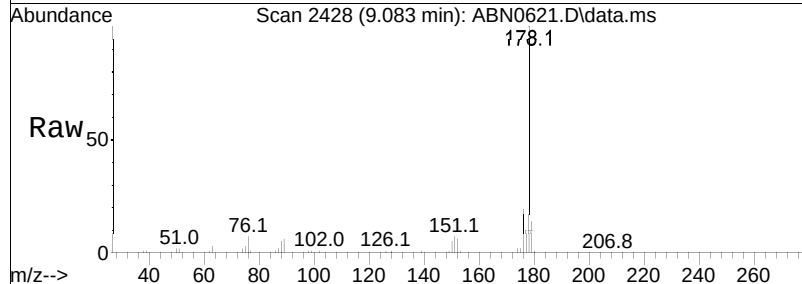
Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.6	12.2	18.2
176	19.2	15.4	23.2

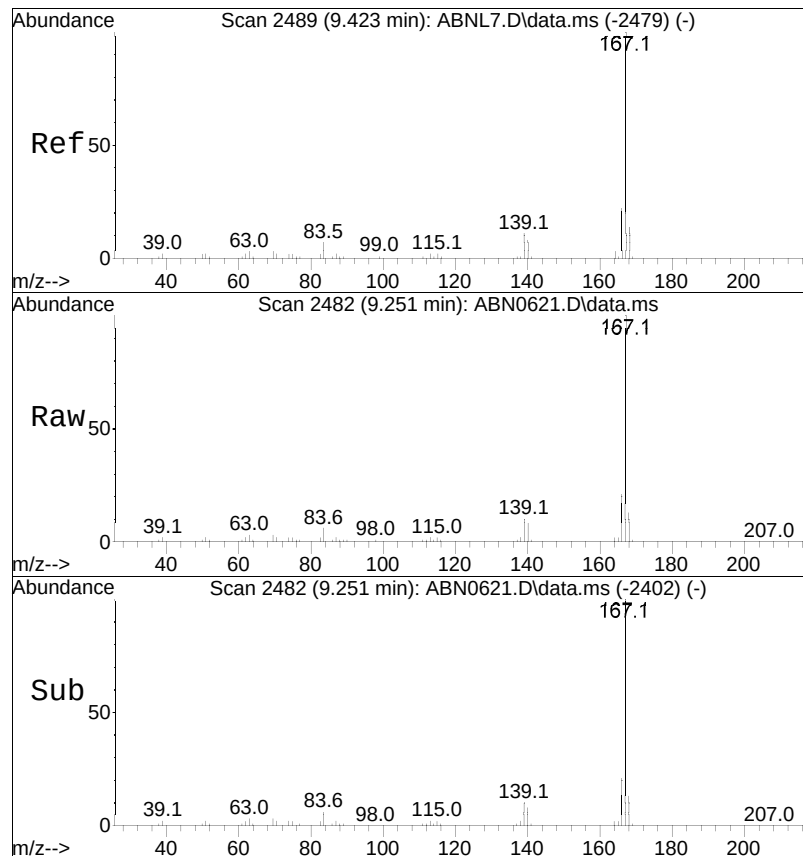




#92
 Anthracene
 Concen: 4.34 ug/ml
 RT: 9.083 min Scan# 2428
 Delta R.T. 0.000 min
 Lab File: ABN0621.D
 Acq: 21 Jun 2025 6:27 am

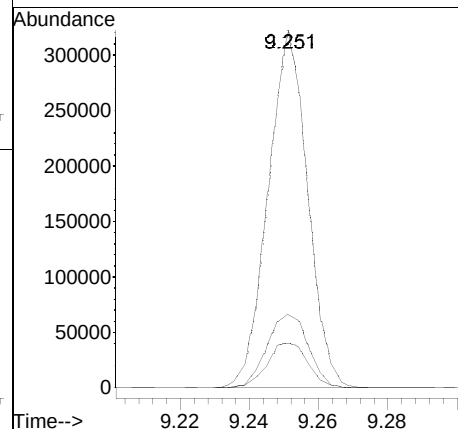
Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.0	12.0	18.0
176	18.6	14.6	22.0

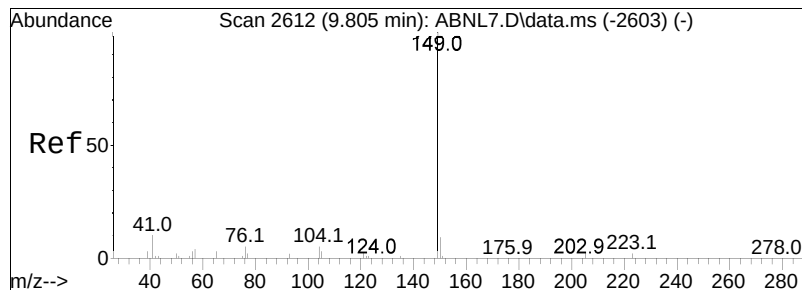




#93
 Carbazole
 Concen: 4.41 ug/ml
 RT: 9.251 min Scan# 2482
 Delta R.T. 0.000 min
 Lab File: ABN0621.D
 Acq: 21 Jun 2025 6:27 am

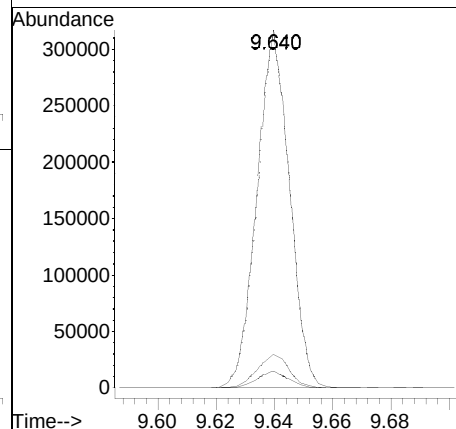
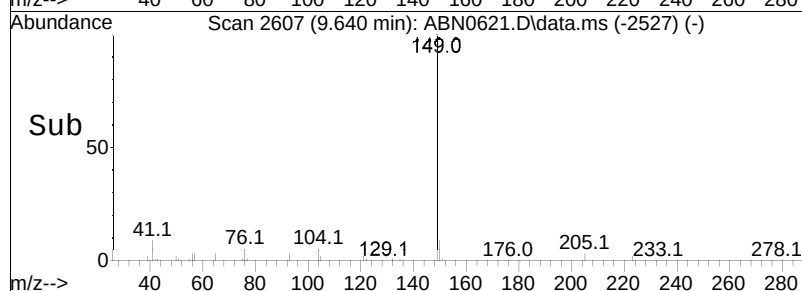
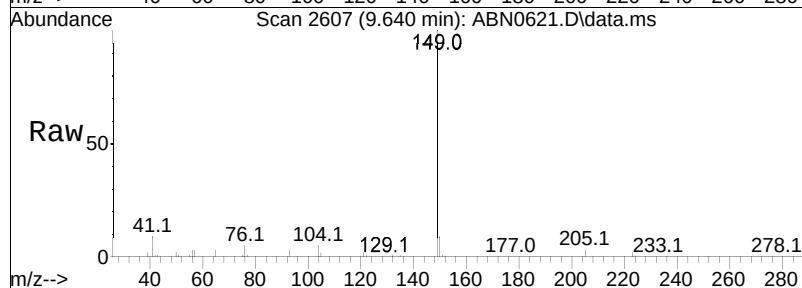
Tgt Ion:	167	Resp:	253196
Ion Ratio	Lower	Upper	
167	100		
168	13.2	10.6	15.8
166	21.8	17.4	26.0

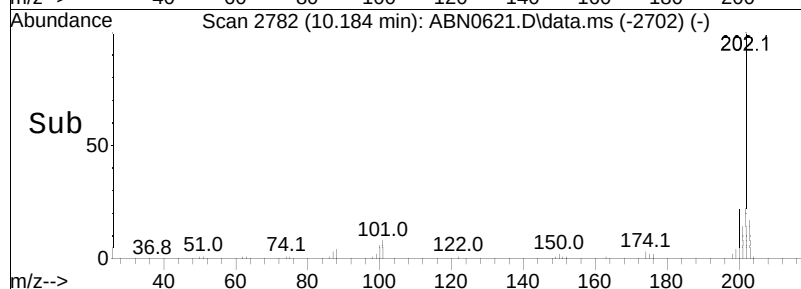
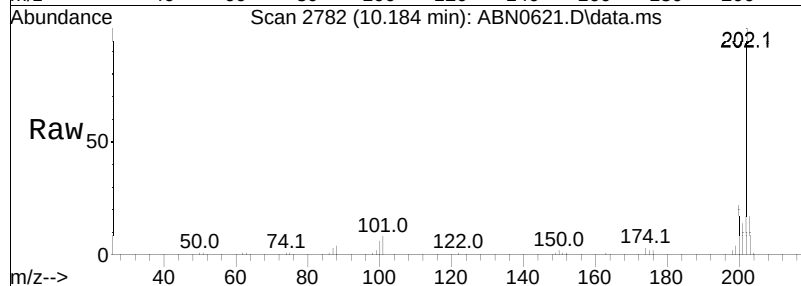
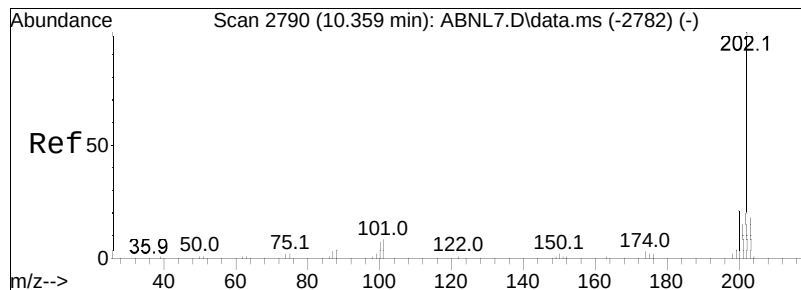




#94
 Di-n-butylphthalate
 Concen: 4.05 ug/ml
 RT: 9.640 min Scan# 2607
 Delta R.T. 0.000 min
 Lab File: ABN0621.D
 Acq: 21 Jun 2025 6:27 am

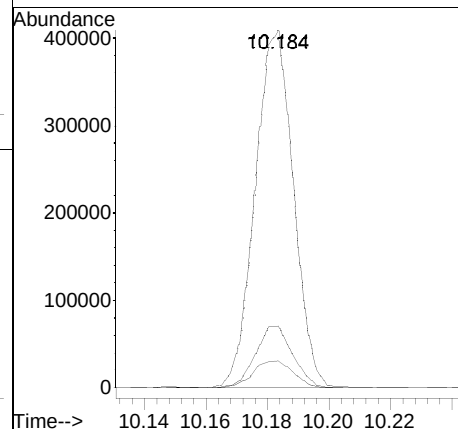
Tgt Ion:	149	Resp:	241666
Ion Ratio	Lower	Upper	
149	100		
150	9.3	7.0	10.6
104	4.6	4.5	6.7

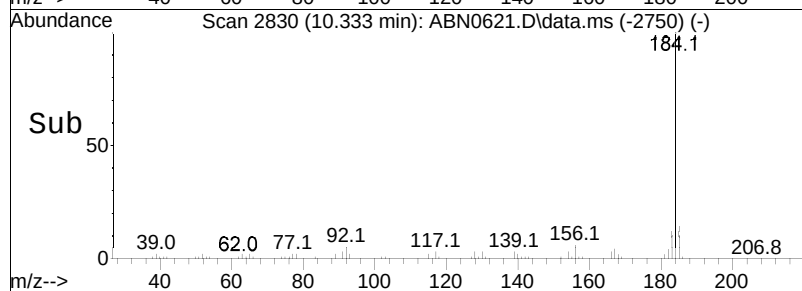
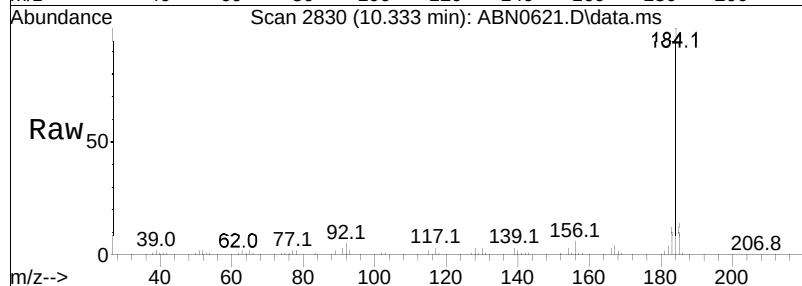
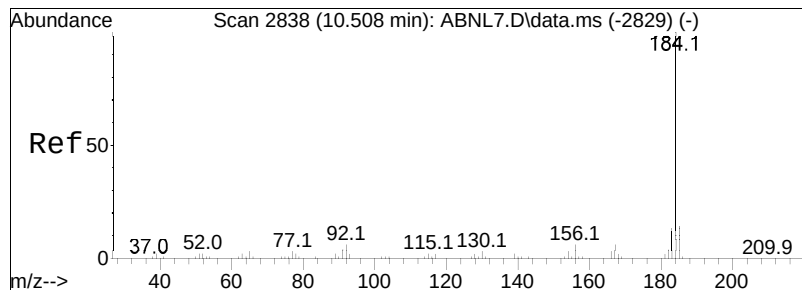




#95
 Fluoranthene
 Concen: 4.76 ug/ml
 RT: 10.184 min Scan# 2782
 Delta R.T. 0.000 min
 Lab File: ABN0621.D
 Acq: 21 Jun 2025 6:27 am

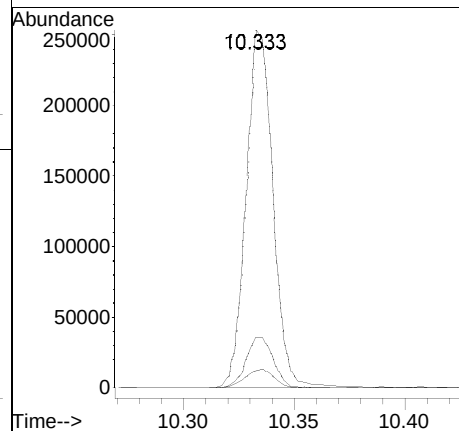
Tgt Ion	Ratio	Lower	Upper
202	100		
101	8.0	13.5	20.3#
203	17.0	13.6	20.4

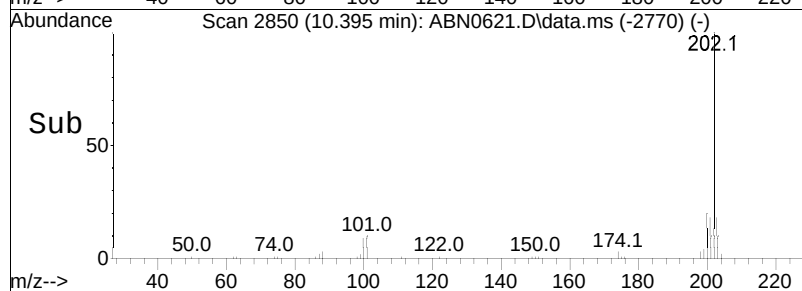
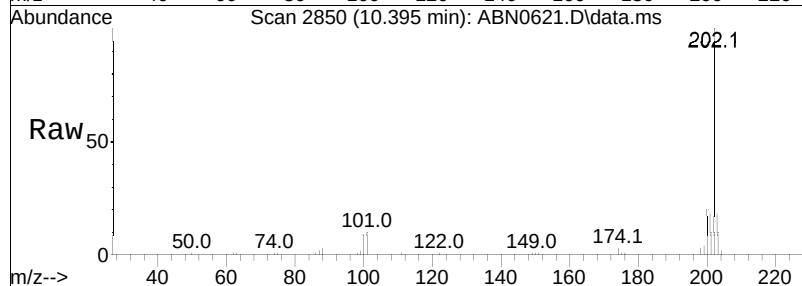
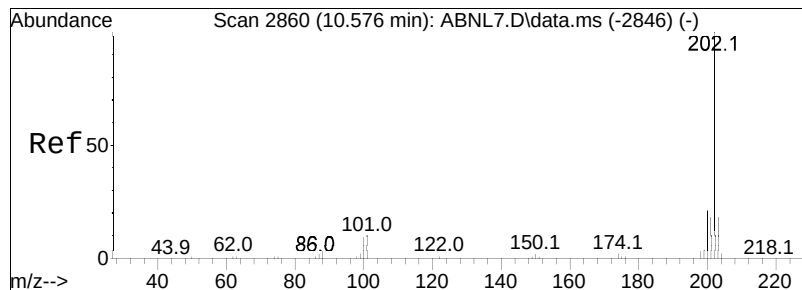




#96
Benzidine
Concen: 4.75 ug/ml
RT: 10.333 min Scan# 2830
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2025 6:27 am

Tgt Ion	Ratio	Lower	Upper
184	100		
92	5.7	9.1	13.7#
185	14.6	11.1	16.7





#97

Pyrene

Concen: 4.72 ug/ml

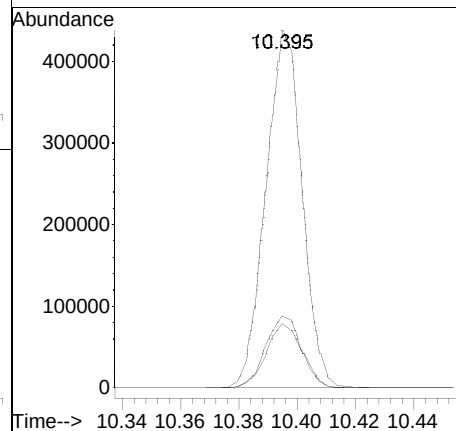
RT: 10.395 min Scan# 2850

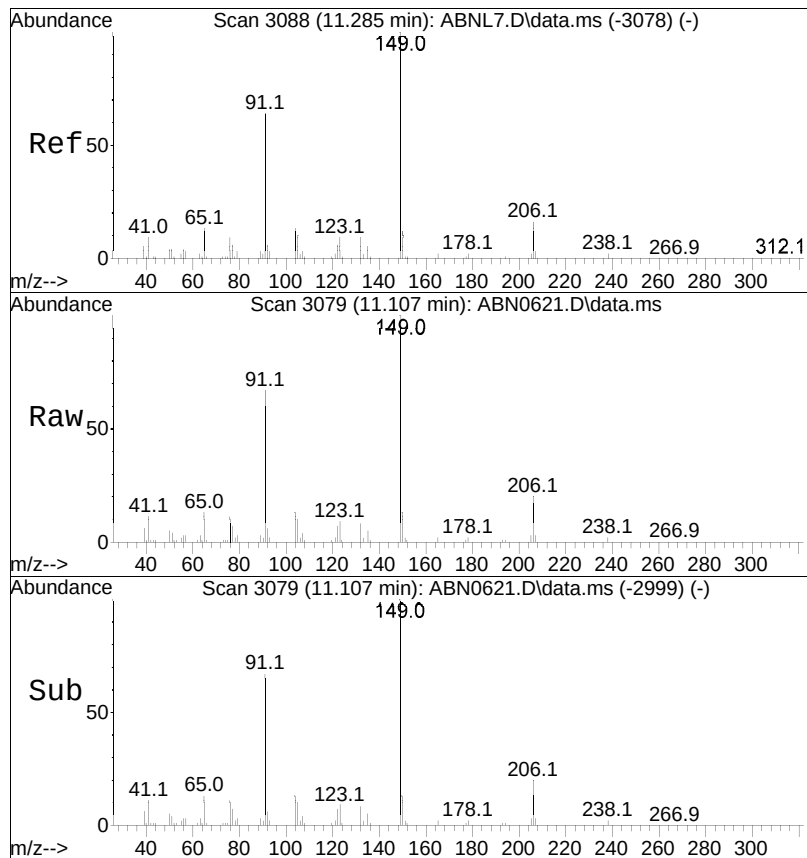
Delta R.T. 0.000 min

Lab File: ABN0621.D

Acq: 21 Jun 2025 6:27 am

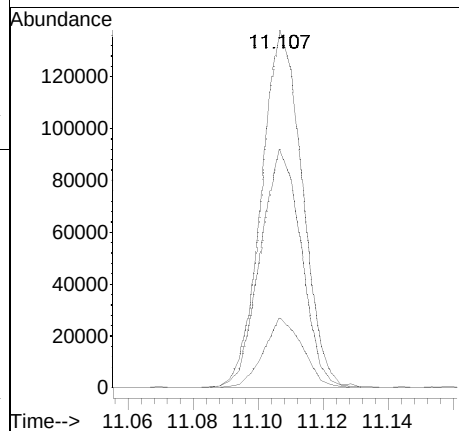
Tgt Ion:	202	Resp:	374662
Ion Ratio	Lower	Upper	
202	100		
200	20.2	16.7	25.1
203	17.8	14.2	21.4

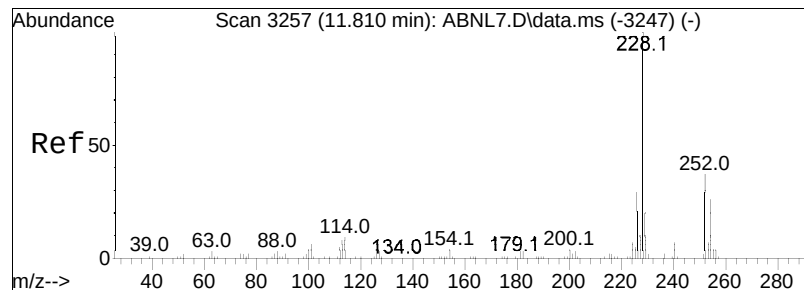




#99
 Butyl benzyl phthalate
 Concen: 4.62 ug/ml
 RT: 11.107 min Scan# 3079
 Delta R.T. 0.000 min
 Lab File: ABN0621.D
 Acq: 21 Jun 2025 6:27 am

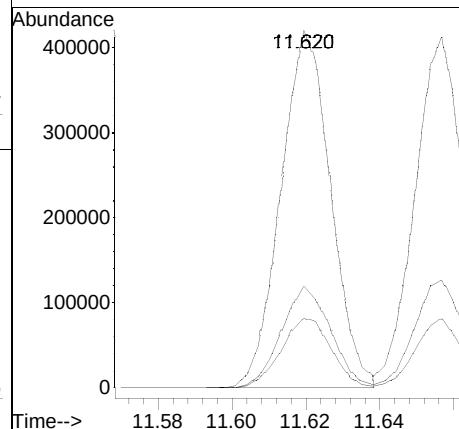
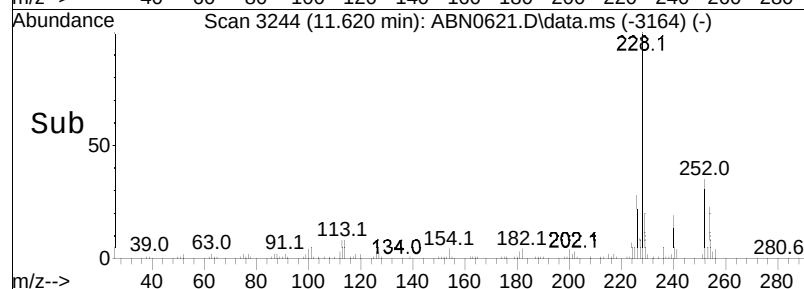
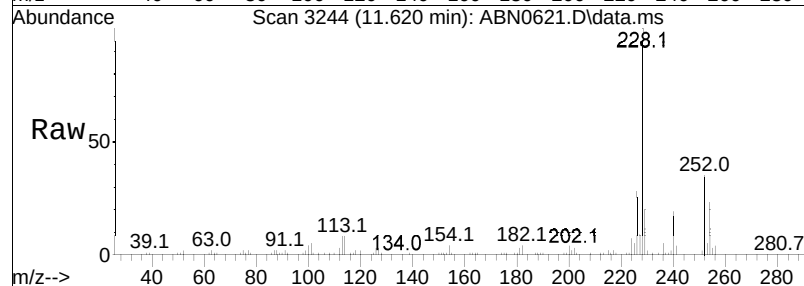
Tgt Ion:	149	Resp:	119542
Ion Ratio	Lower	Upper	
149	100		
91	66.9	63.3	94.9
206	18.5	13.9	20.9

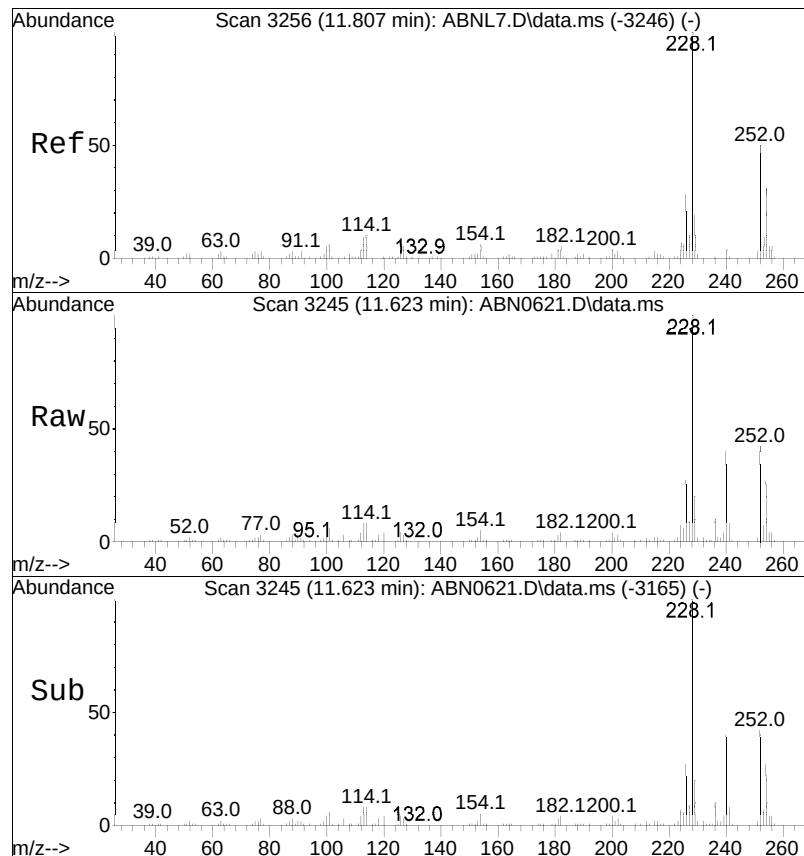




#107
 Benzo(a)anthracene
 Concen: 4.35 ug/ml
 RT: 11.620 min Scan# 3244
 Delta R.T. 0.000 min
 Lab File: ABN0621.D
 Acq: 21 Jun 2025 6:27 am

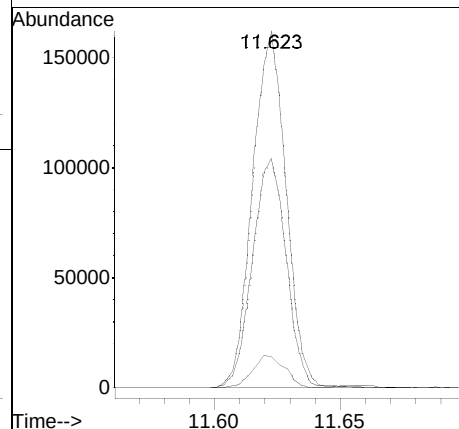
Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.2	33.4
229	19.7	15.6	23.4

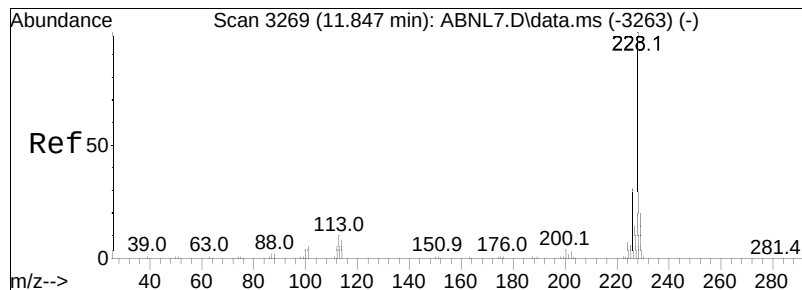




#108
 3,3'-Dichlorobenzidine
 Concen: 4.65 ug/ml
 RT: 11.623 min Scan# 3245
 Delta R.T. 0.000 min
 Lab File: ABN0621.D
 Acq: 21 Jun 2025 6:27 am

Tgt Ion:	252	Resp:	148574
Ion Ratio	Lower	Upper	
252	100		
126	8.9	14.5	21.7#
254	65.0	51.2	76.8





#109

Chrysene

Concen: 4.30 ug/ml

RT: 11.657 min Scan# 3256

Delta R.T. 0.000 min

Lab File: ABN0621.D

Acq: 21 Jun 2025 6:27 am

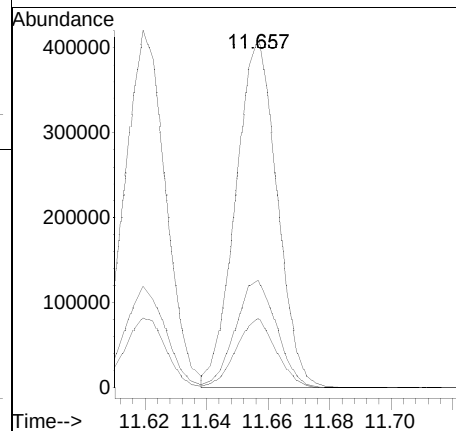
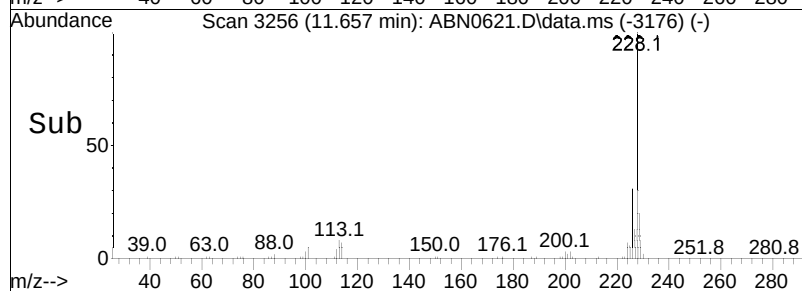
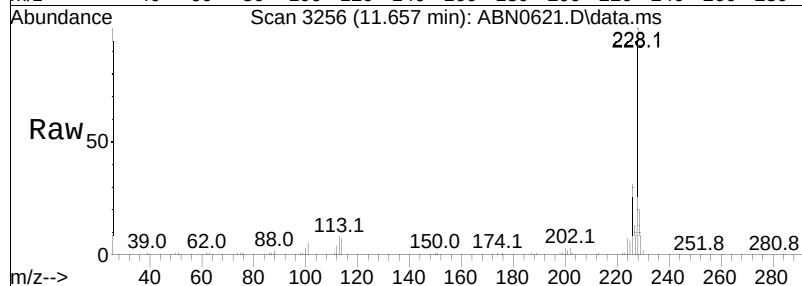
Tgt Ion:228 Resp: 383074

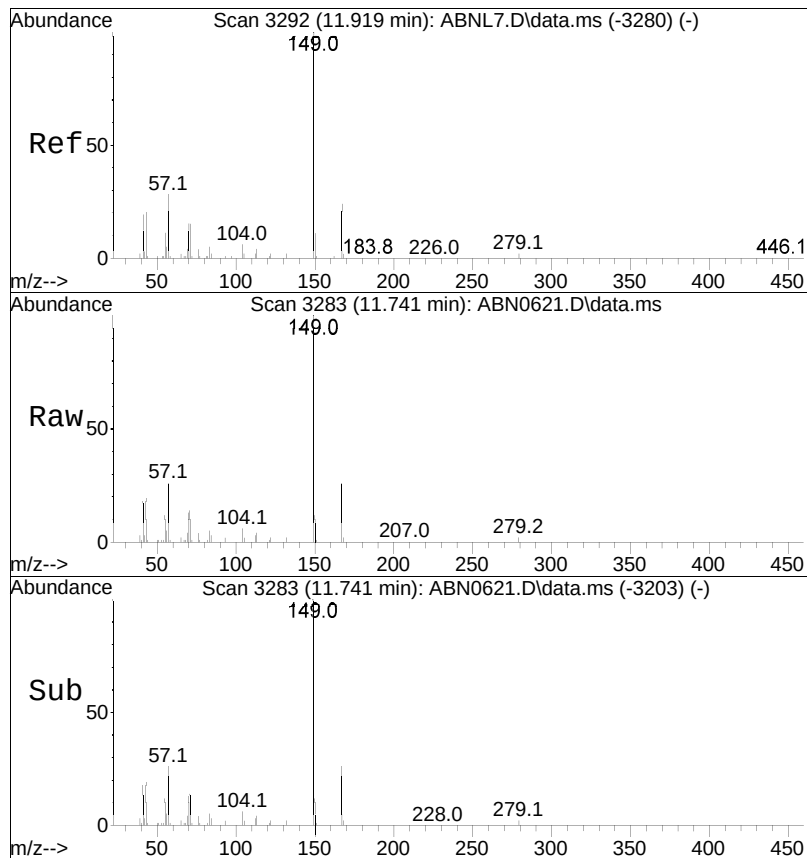
Ion Ratio Lower Upper

228 100

226 31.0 24.0 36.0

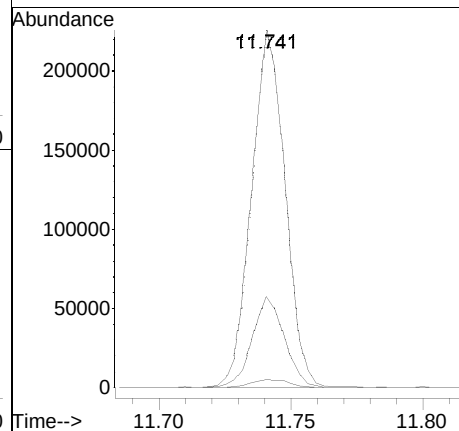
229 19.3 15.8 23.8

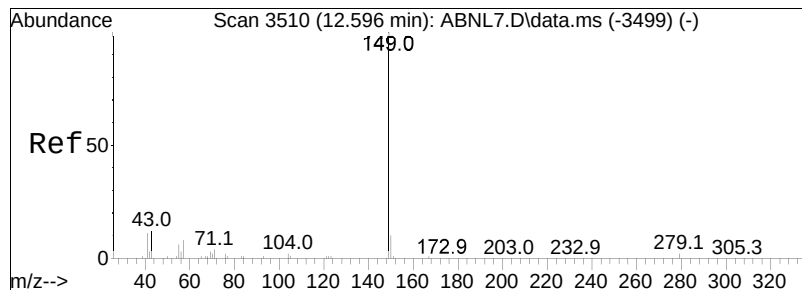




#110
 Bis(2-ethylhexyl)phthalate
 Concen: 4.34 ug/ml
 RT: 11.741 min Scan# 3283
 Delta R.T. 0.000 min
 Lab File: ABN0621.D
 Acq: 21 Jun 2025 6:27 am

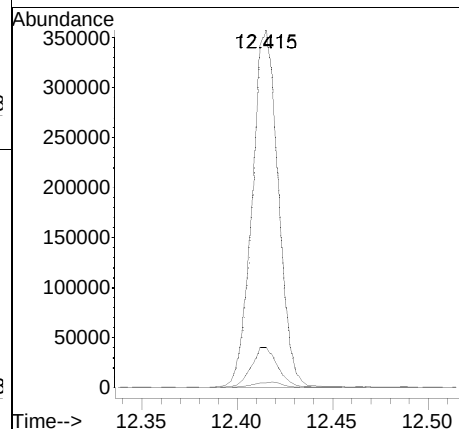
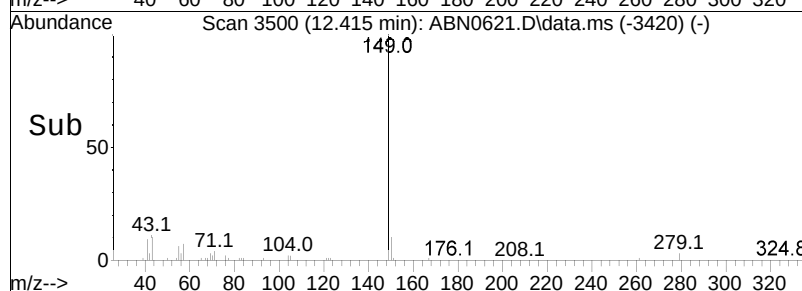
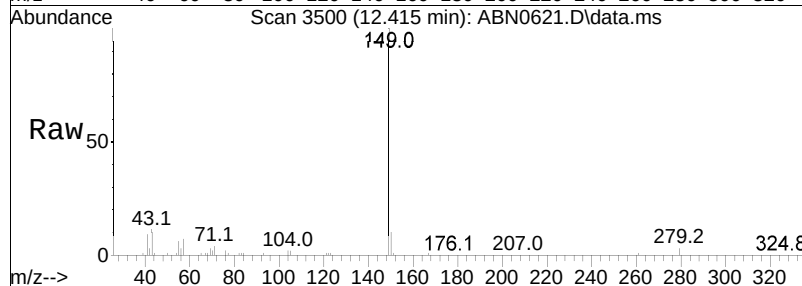
Tgt	Ion	Ratio	Resp	Lower	Upper
149	100		197427		
167	24.6	22.1	33.1		
279	2.3	3.0	4.4#		

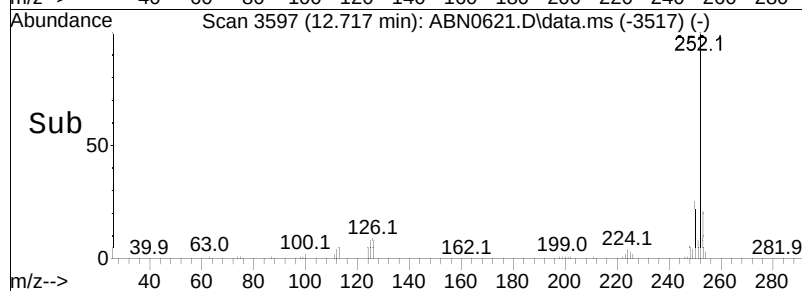
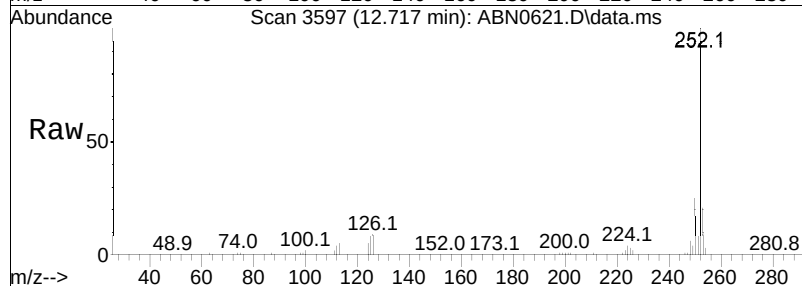
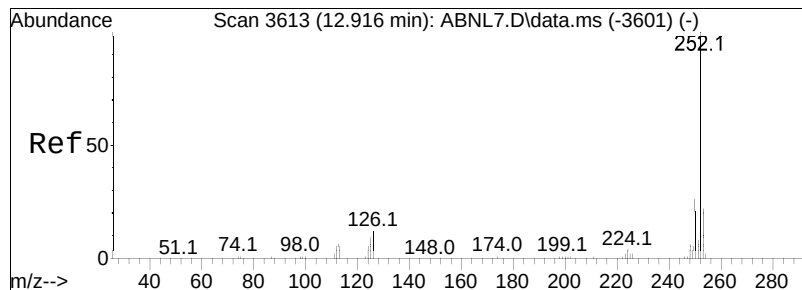




#111
 Di-n-octylphthalate
 Concen: 4.54 ug/ml
 RT: 12.415 min Scan# 3500
 Delta R.T. 0.000 min
 Lab File: ABN0621.D
 Acq: 21 Jun 2025 6:27 am

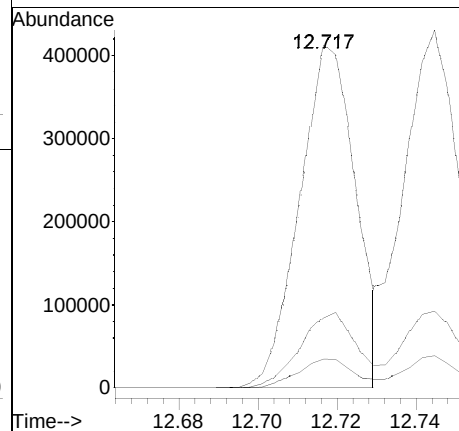
Tgt Ion	Ratio	Lower	Upper
149	100		
43	11.4	18.8	28.2#
167	1.5	1.3	1.9

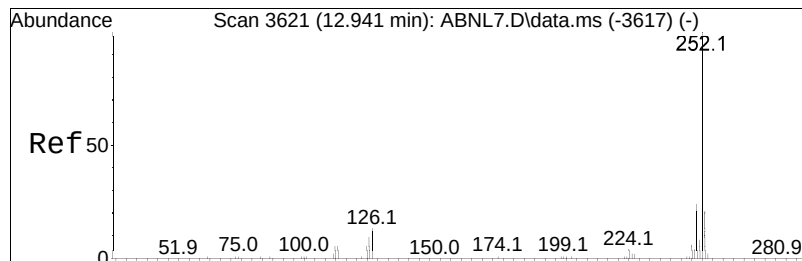




#112
Benzo(b)fluoranthene
Concen: 4.45 ug/ml
RT: 12.717 min Scan# 3597
Delta R.T. 0.000 min
Lab File: ABN0621.D
Acq: 21 Jun 2025 6:27 am

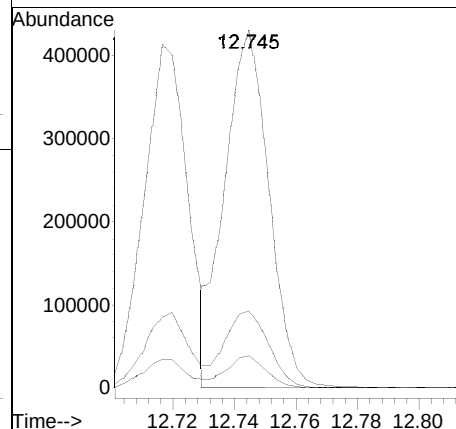
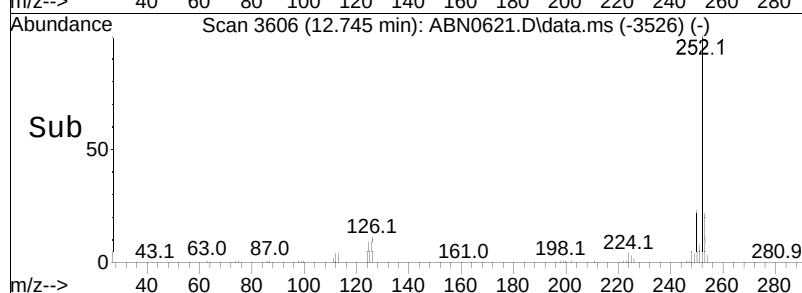
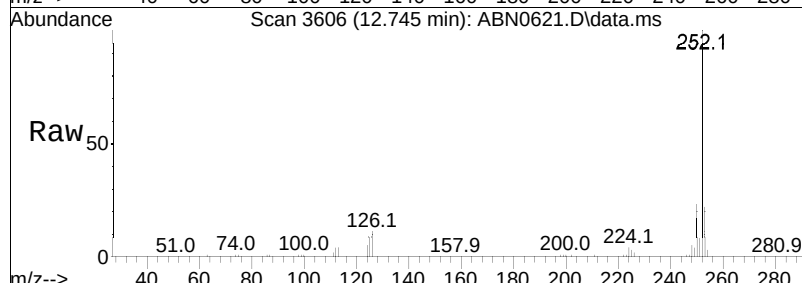
Tgt Ion	Ratio	Lower	Upper
252	100		
125	8.4	13.3	19.9#
253	21.9	17.1	25.7

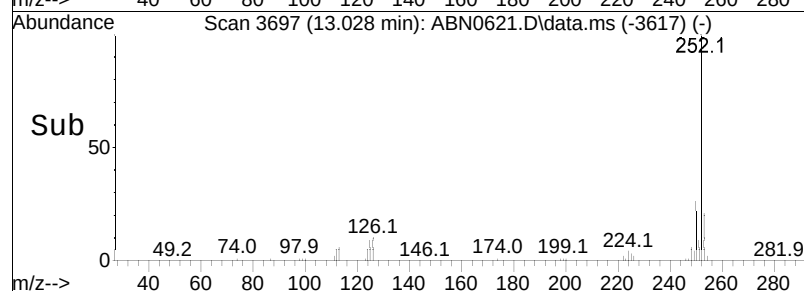
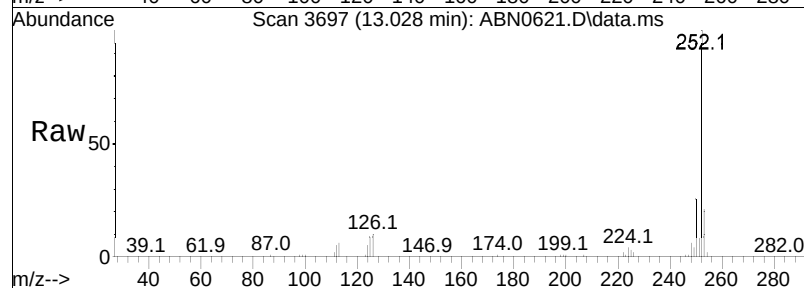
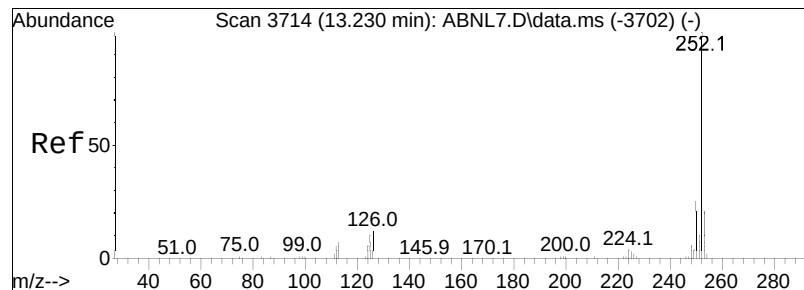




#113
 Benzo(k)fluoranthene
 Concen: 4.59 ug/ml
 RT: 12.745 min Scan# 3606
 Delta R.T. 0.000 min
 Lab File: ABN0621.D
 Acq: 21 Jun 2025 6:27 am

Tgt Ion	Ratio	Lower	Upper
252	100		
125	8.4	13.0	19.6#
253	21.9	16.8	25.2





#114

Benzo(a)pyrene

Concen: 4.61 ug/ml M2

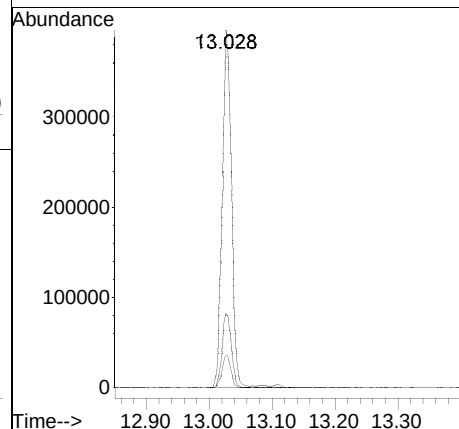
RT: 13.028 min Scan# 3697

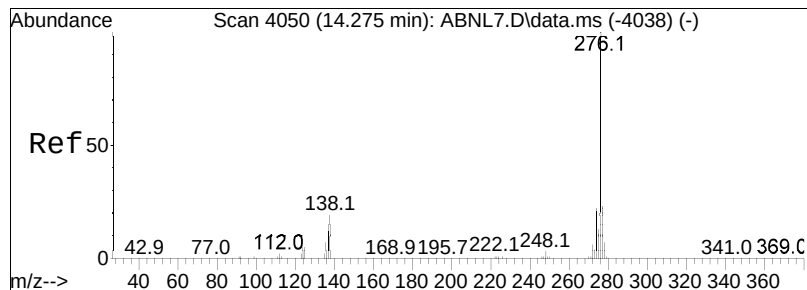
Delta R.T. 0.000 min

Lab File: ABN0621.D

Acq: 21 Jun 2025 6:27 am

Tgt Ion	Ratio	Lower	Upper
252	100		
125	0.2	14.2	21.2#
253	0.2	16.9	25.3#





#116

Indeno(1,2,3-cd)pyrene

Concen: 4.31 ug/mL

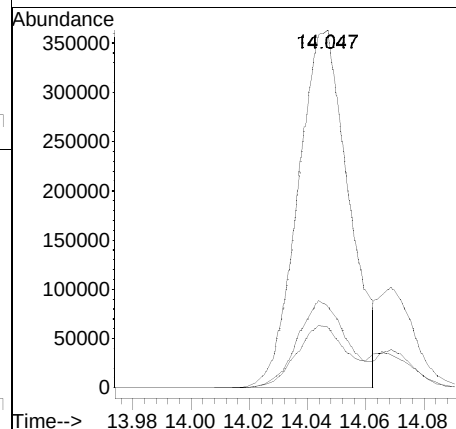
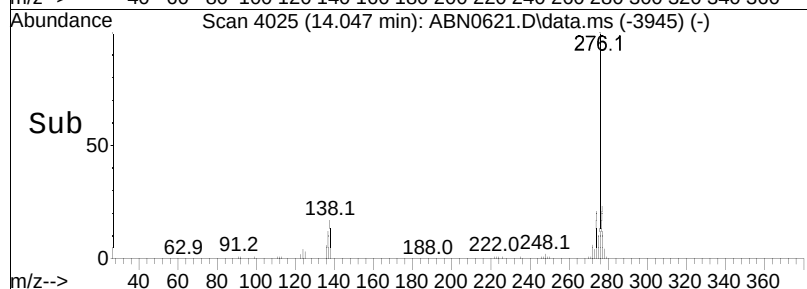
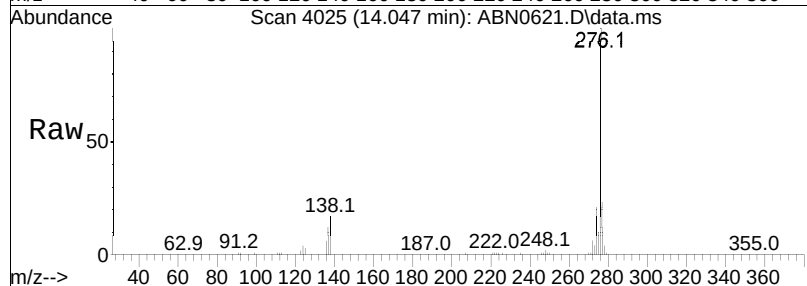
RT: 14.047 min Scan# 4025

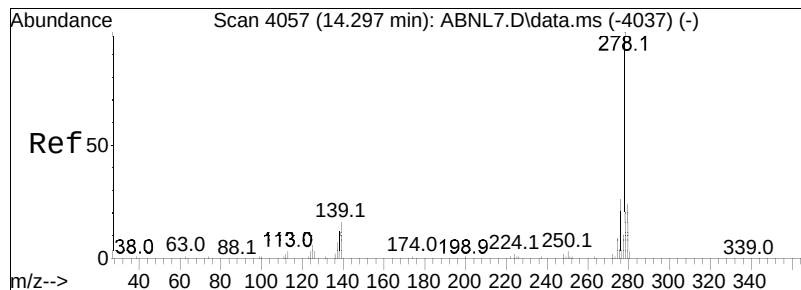
Delta R.T. 0.000 min

Lab File: ABN0621.D

Acq: 21 Jun 2025 6:27 am

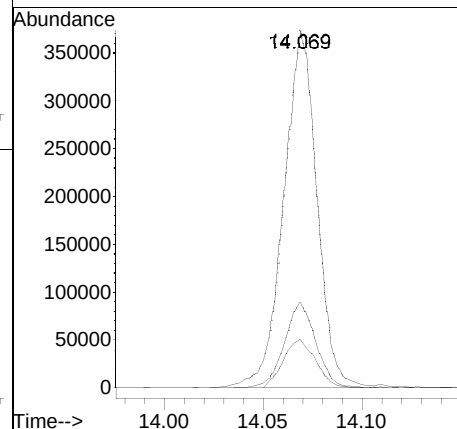
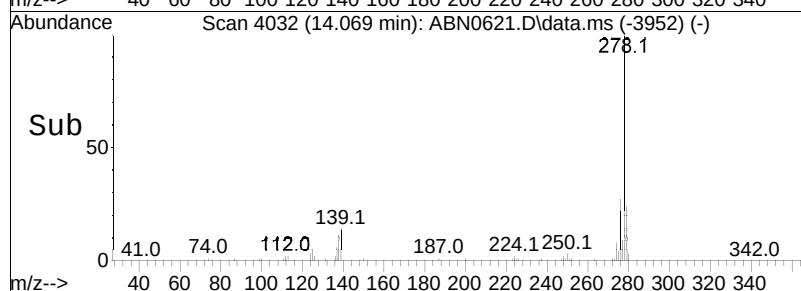
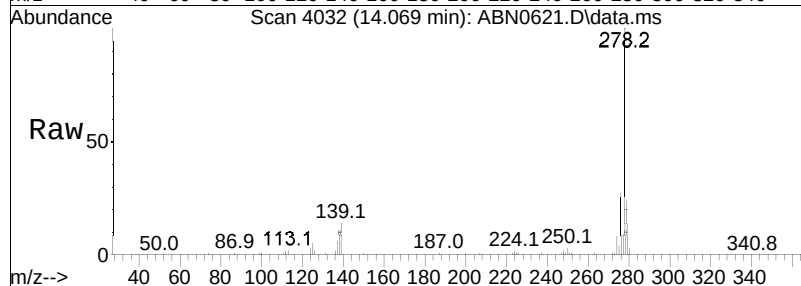
Tgt Ion:	276	Resp:	439324
Ion Ratio	Lower	Upper	
276	100		
138	17.8	25.1	37.7#
277	24.6	18.6	28.0

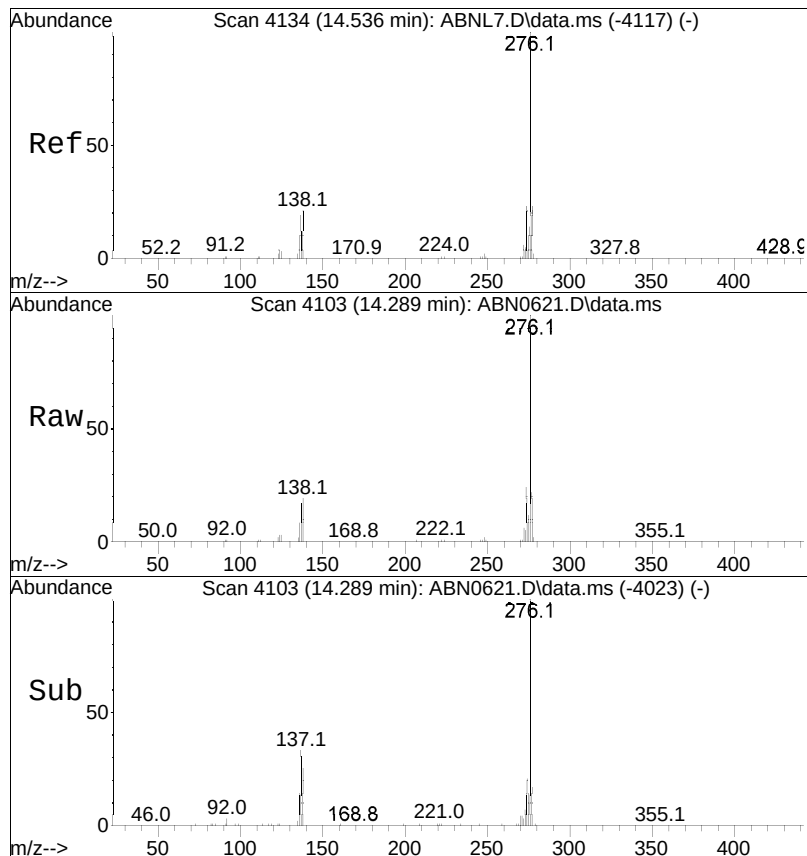




#117
 Dibenzo(a,h)anthracene
 Concen: 4.41 ug/ml
 RT: 14.069 min Scan# 4032
 Delta R.T. 0.000 min
 Lab File: ABN0621.D
 Acq: 21 Jun 2025 6:27 am

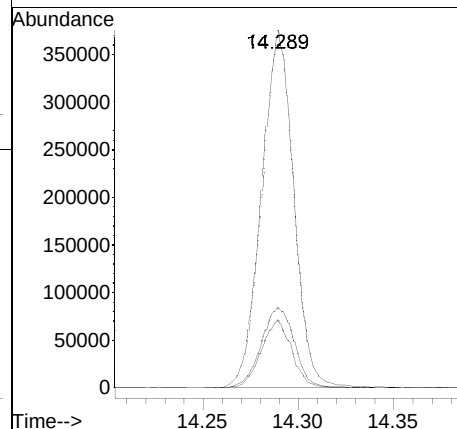
Tgt Ion	Ratio	Lower	Upper
278	100		
139	13.4	20.8	31.2#
279	22.8	18.3	27.5





#118
 Benzo(ghi)perylene
 Concen: 4.43 ug/ml
 RT: 14.289 min Scan# 4103
 Delta R.T. 0.000 min
 Lab File: ABN0621.D
 Acq: 21 Jun 2025 6:27 am

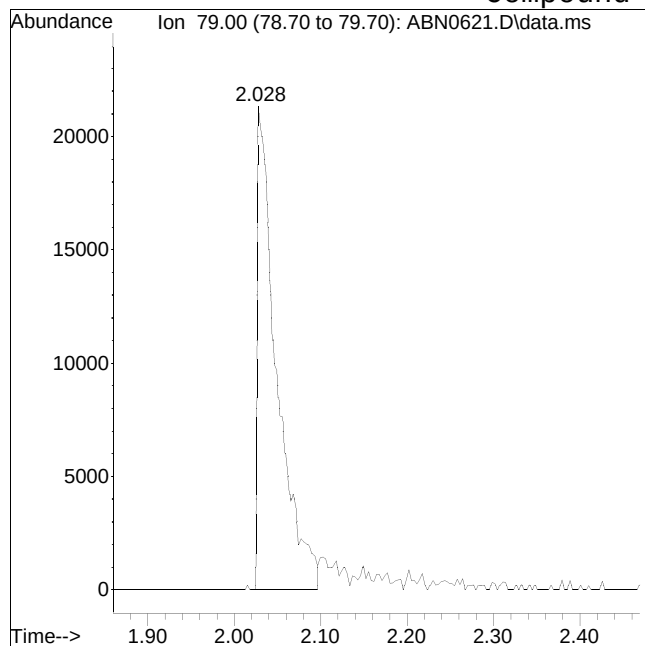
Tgt Ion:	276	Resp:	435238
Ion Ratio	Lower	Upper	
276	100		
138	18.2	29.2	43.8#
277	23.5	18.8	28.2



Manual Integration Report

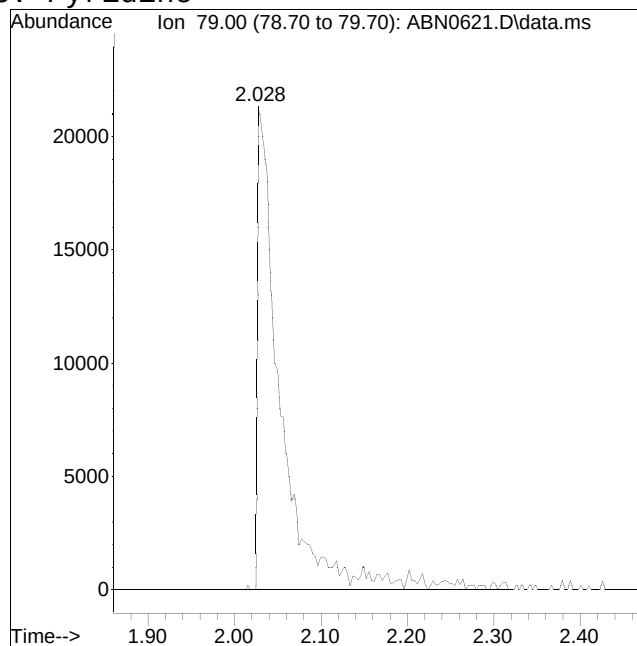
Data Path : I:\8270\Dakota\250621RVT\ QMethod : FS250416RVT_Dakota.m
Data File : ABN0621.D Operator : Dakota:imk
Date Inj'd : 6/21/2025 6:27 am Instrument : Dakota
Sample : WG2081719-3,32,,ABN 11297 QMethod : FS250416RVT_Dakota.m Date : 6/21/2025 7:28 am

Compound #3: Pyridine



Original Peak Response = 33371

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

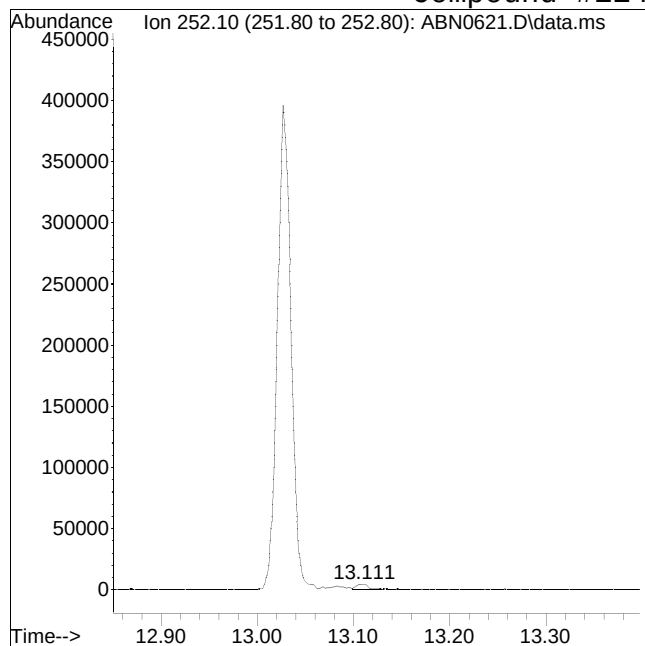


Manual Peak Response = 39516 M1

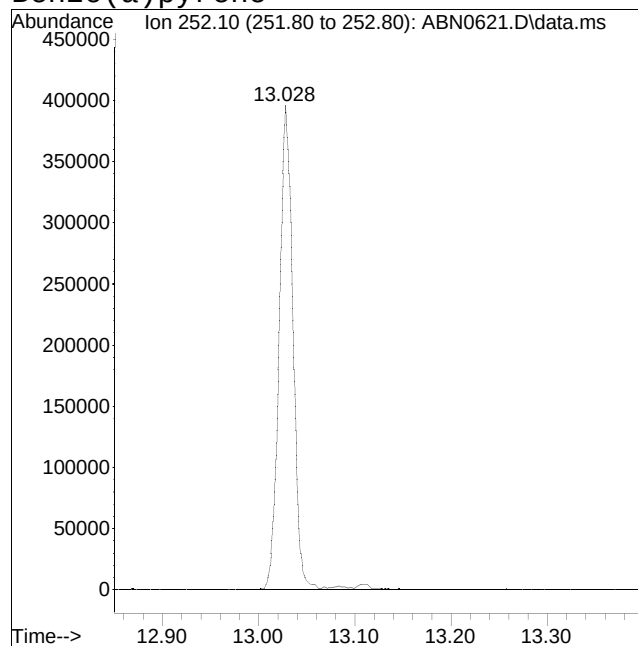
Manual Integration Report

Data Path : I:\8270\Dakota\250621RVT\ QMethod : FS250416RVT_Dakota.m
Data File : ABN0621.D Operator : Dakota:imk
Date Inj'd : 6/21/2025 6:27 am Instrument : Dakota
Sample : WG2081719-3,32,,ABN 11297 QMethod : 6/21/2025 7:28 am

Compound #114: Benzo(a)pyrene



Original Peak Response = 3848



Manual Peak Response = 403381 M2

M2 = Peak not found by automatic integration algorithm.

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\250621RVT\
 Data File : AP90621.D
 Acq On : 21 Jun 2025 6:49 am
 Operator : Dakota:imk
 Sample : WG2081719-4,32,,AP9 11662 gmr0619A
 Misc : WG2081719,,ical22203
 ALS Vial : 97 Sample Multiplier: 1

Quant Time: Jun 21 07:28:00 2025
 Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sat Jun 21 07:28:44 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

27 I	IS2_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	91	0.00
28 T	Benzaldehyde	0.839	0.838	0.1	88	0.00
29 T	Acetophenone	1.481	1.490	-0.6	89	0.00
30 T	m-Toluidine	1.490	1.335	10.4	82	0.00
31 T	2-Chloroaniline	1.308	1.330	-1.7	90	0.00
57 I	IS2_Naphthalene-d8	1.000	1.000	0.0	96	0.00
58 T	a-Terpineol	0.290	0.274	5.5	85	0.00
59 T	3-Chloroaniline	0.149	0.149	0.0	94	0.00
60 T	2,6-Dichlorophenol	0.329	0.378	-14.9	104	0.00
61 T	1-chloro-2-nitrobenzene	0.139	0.133	4.3	88	0.00
62 T	Caprolactam	0.169	0.168	0.6	100	0.00
63 T	1,2,4,5-Tetrachlorobenzene	0.444	0.487	-9.7	108	0.00
64 T	Biphenyl	0.950	0.950	0.0	94	0.00
85 I	IS2_Acenaphthene-d10	1.000	1.000	0.0	106	0.00
86 T	Dichloran	0.205	0.203	1.0	113	0.00
87 T	Pentachloronitrobenzene	0.184	0.198	-7.6	107	0.00
100 I	IS2_Phenanthrene-d10	1.000	1.000	0.0	116	0.00
101 T	Diphenamid	0.466	0.439	5.8	102	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250621RVT\
 Data File : AP90621.D
 Acq On : 21 Jun 2025 6:49 am
 Operator : Dakota:imk
 Sample : WG2081719-4,32,,AP9 11662 gmr0619A
 Misc : WG2081719,,ical22203
 ALS Vial : 97 Sample Multiplier: 1

Quant Time: Jun 21 07:28:00 2025
 Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sat Jun 21 07:28:44 2025
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.651	152	33532	4.000	ug/ml	0.00
57) IS2_Naphthalene-d8	5.885	136	118622	4.000	ug/ml #	0.00
85) IS2_Acenaphthene-d10	7.585	164	90024	4.000	ug/ml	0.00
100) IS2_Phenanthrene-d10	9.012	188	216143	4.000	ug/ml	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
28) Benzaldehyde	4.219	105	35109	4.990	ug/ml	95
29) Acetophenone	5.052	105	62460	5.030	ug/ml#	88
30) m-Toluidine	5.136	106	55964	4.480	ug/ml	96
31) 2-Chloroaniline	5.493	127	55735	5.082	ug/ml	95
58) a-Terpineol	5.944	59	40623	4.716	ug/ml	88
59) 3-Chloroaniline	5.957	65	22051	5.005	ug/ml	79
60) 2,6-Dichlorophenol	5.984	162	56009	5.739	ug/ml#	84
61) 1-chloro-2-nitrobenzene	6.236	111	19728	4.779	ug/ml#	1
62) Caprolactam	6.274	55	24977	4.981	ug/ml#	78
63) 1,2,4,5-Tetrachloroben...	6.752	216	72228	5.487	ug/ml#	97
64) Biphenyl	7.044	154	140928	5.001	ug/ml	97
86) Dichloran	8.710	206	22830	4.945	ug/ml#	52
87) Pentachloronitrobenzene	8.860	237	22311	5.374	ug/ml#	74
101) Diphenamid	9.913	167	118628	4.713	ug/ml#	74

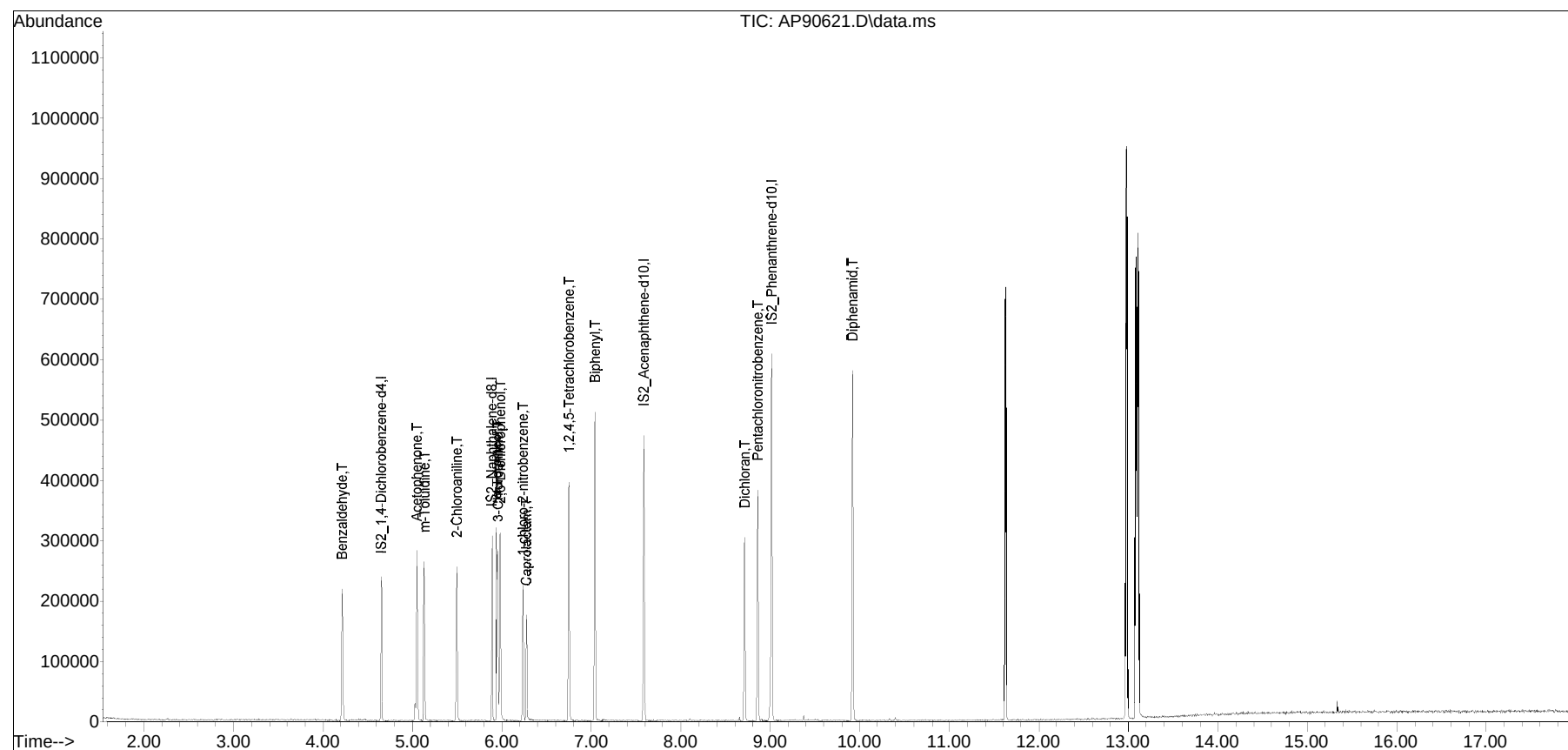
(#) = qualifier out of range (m) = manual integration (+) = signals summed

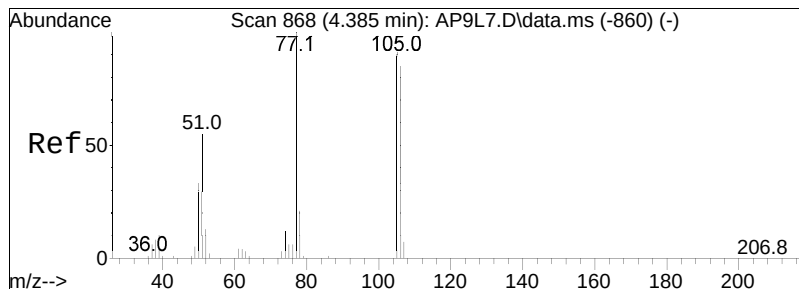
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250621RVT\
 Data File : AP90621.D
 Acq On : 21 Jun 2025 6:49 am
 Operator : Dakota:imk
 Sample : WG2081719-4,32,,AP9 11662 gmr0619A
 Misc : WG2081719,,ical22203
 ALS Vial : 97 Sample Multiplier: 1

Quant Time: Jun 21 07:28:00 2025
 Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sat Jun 21 07:28:44 2025
 Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist





#28

Benzaldehyde

Concen: 4.99 ug/ml

RT: 4.219 min Scan# 863

Delta R.T. 0.000 min

Lab File: AP90621.D

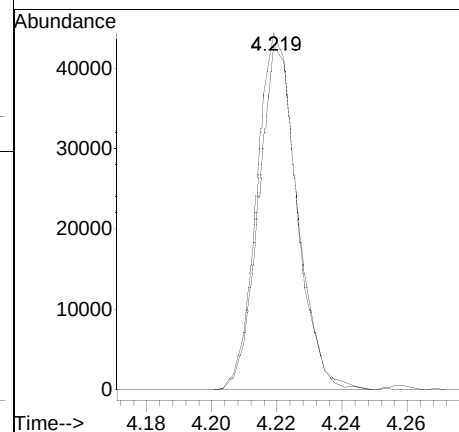
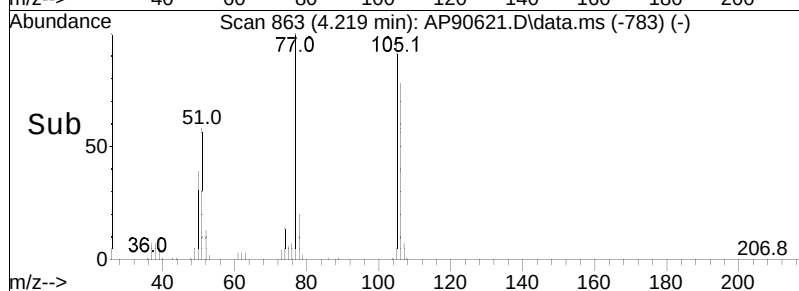
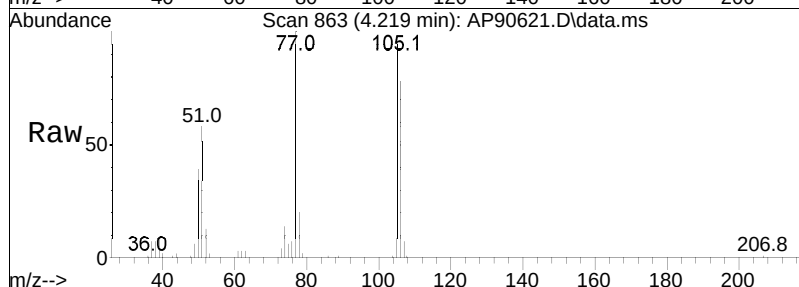
Acq: 21 Jun 2025 6:49 am

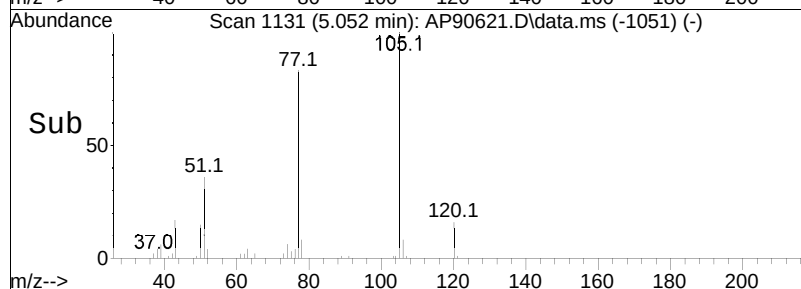
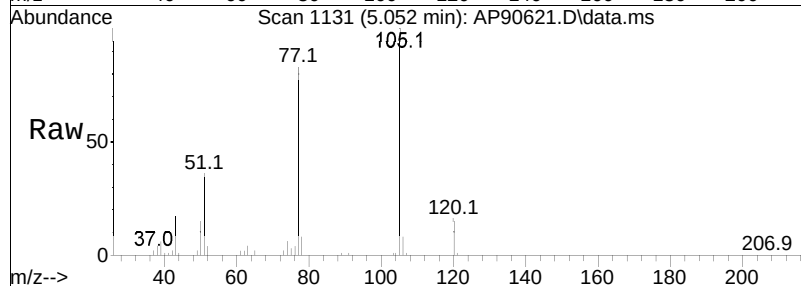
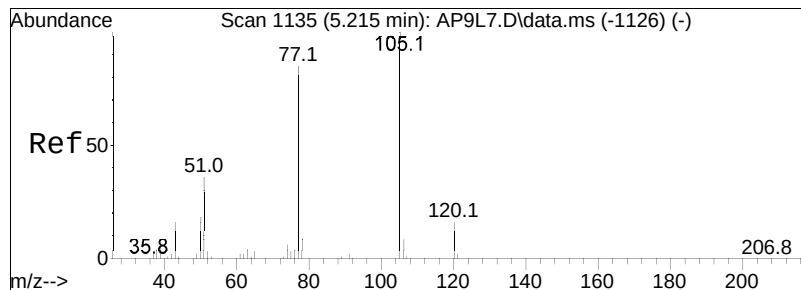
Tgt Ion:105 Resp: 35109

Ion Ratio Lower Upper

105 100

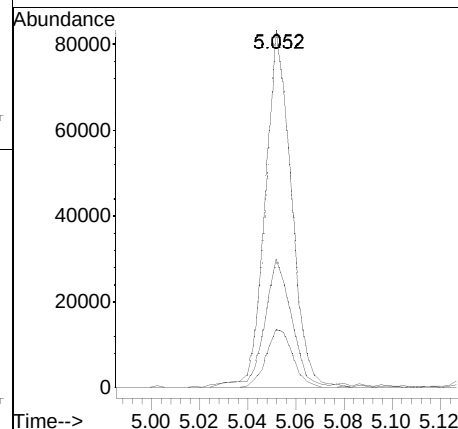
77 108.1 82.2 123.4

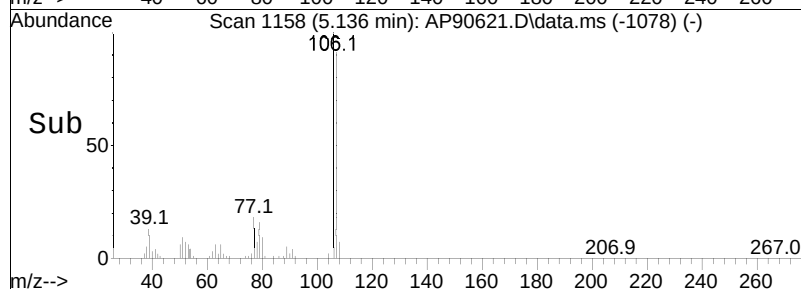
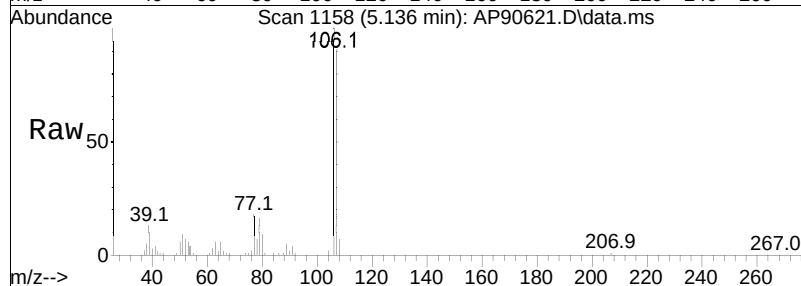
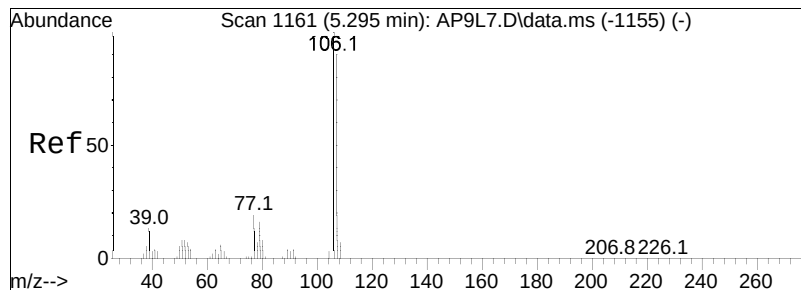




#29
 Acetophenone
 Concen: 5.03 ug/ml
 RT: 5.052 min Scan# 1131
 Delta R.T. 0.000 min
 Lab File: AP90621.D
 Acq: 21 Jun 2025 6:49 am

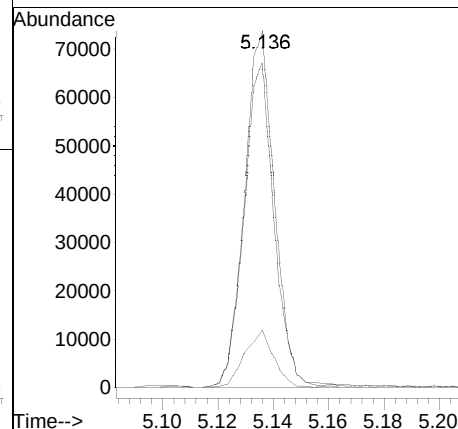
Tgt	Ion:105	Resp:	62460
Ion	Ratio	Lower	Upper
105	100		
120	16.6	20.5	30.7#
51	38.3	34.9	52.3

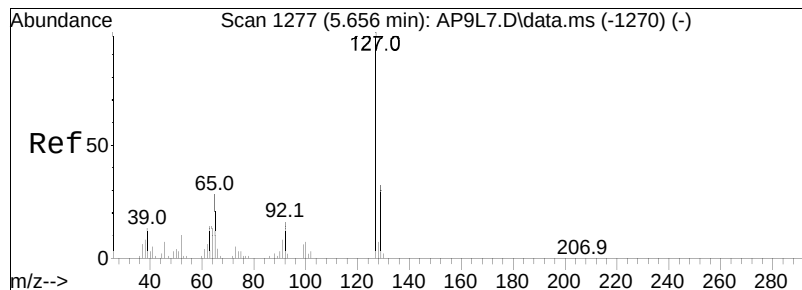




#30
 m-Toluidine
 Concen: 4.48 ug/ml
 RT: 5.136 min Scan# 1158
 Delta R.T. 0.000 min
 Lab File: AP90621.D
 Acq: 21 Jun 2025 6:49 am

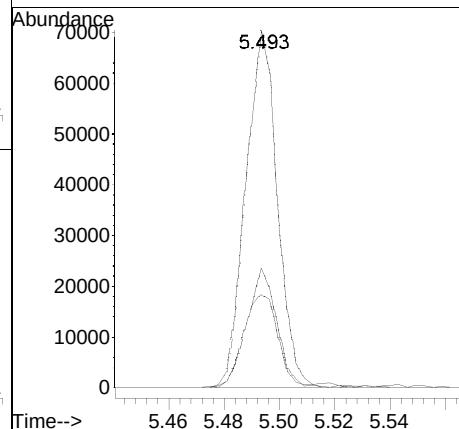
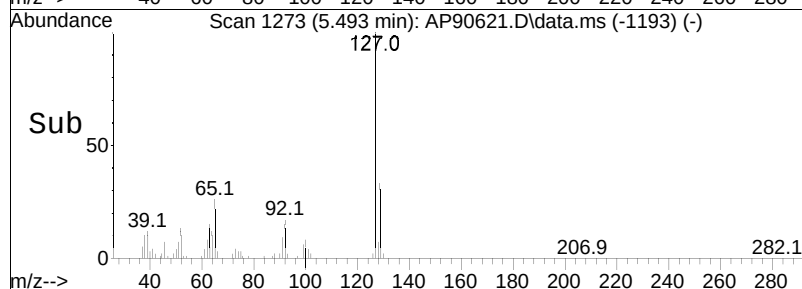
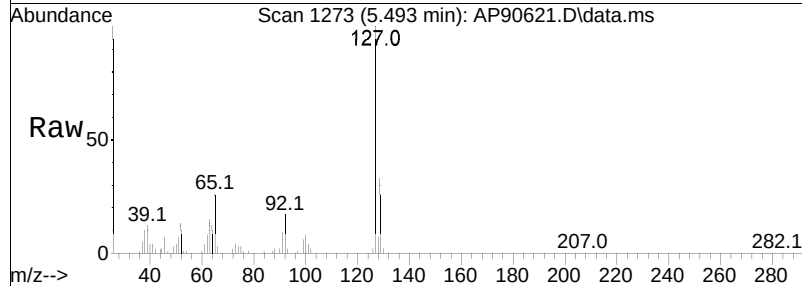
Tgt Ion	Ratio	Resp	Lower	Upper
106	100	55964		
107	90.4		75.7	113.5
79	15.5		11.8	17.8

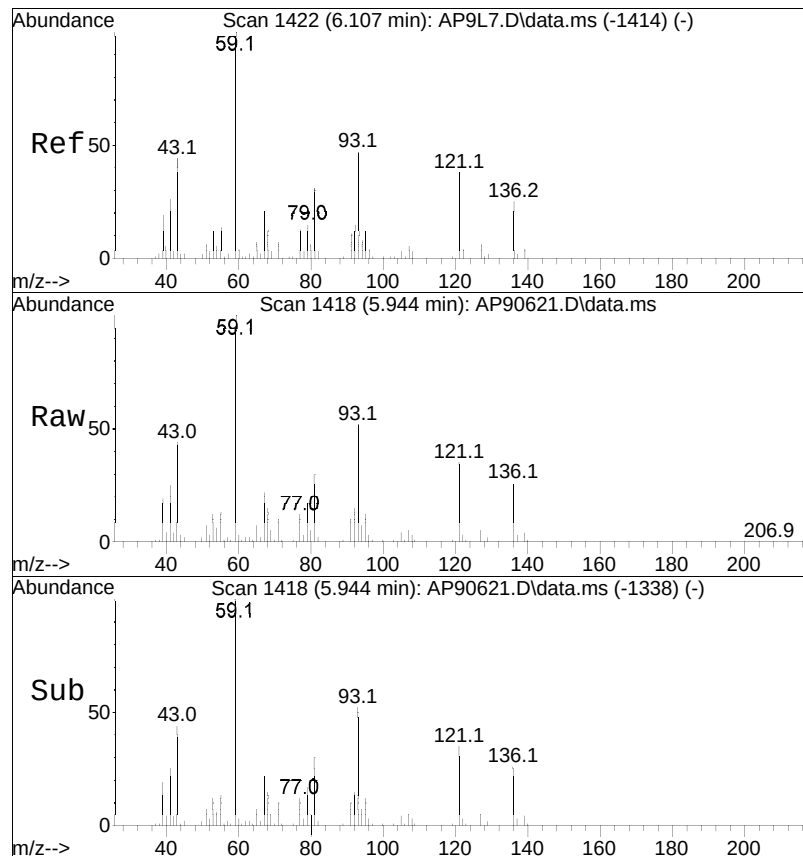




#31
 2-Chloroaniline
 Concen: 5.08 ug/ml
 RT: 5.493 min Scan# 1273
 Delta R.T. 0.000 min
 Lab File: AP90621.D
 Acq: 21 Jun 2025 6:49 am

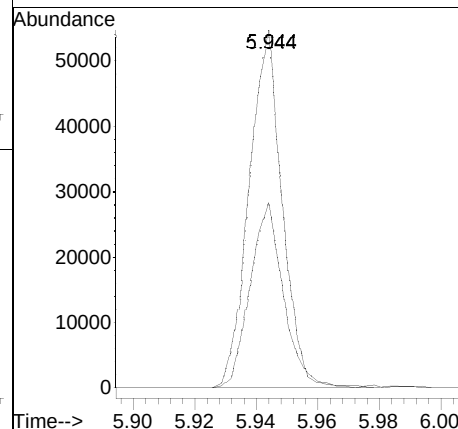
Tgt Ion	Ratio	Lower	Upper
127	100		
129	31.6	25.9	38.9
65	28.2	26.3	39.5

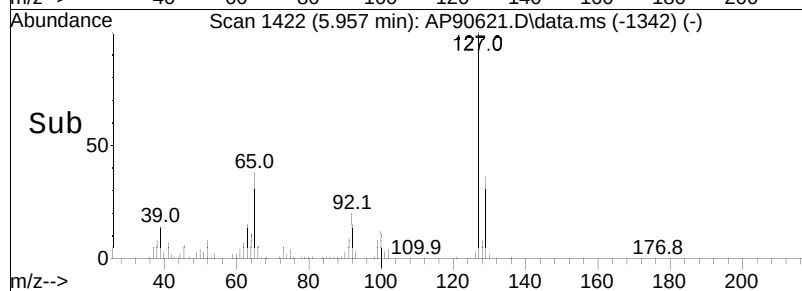
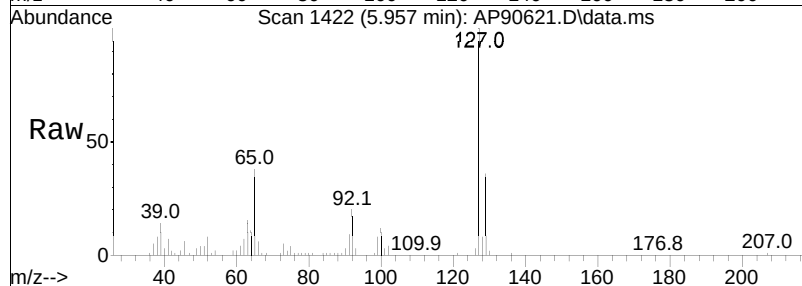
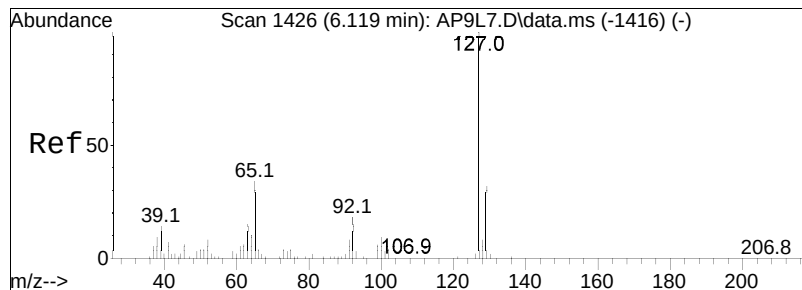




#58
a-Terpineol
Concen: 4.72 ug/ml
RT: 5.944 min Scan# 1418
Delta R.T. 0.000 min
Lab File: AP90621.D
Acq: 21 Jun 2025 6:49 am

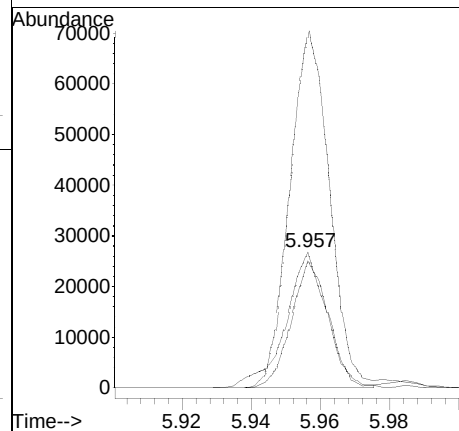
Tgt Ion	Ratio	Lower	Upper
59	100		
93	52.4	35.6	53.4

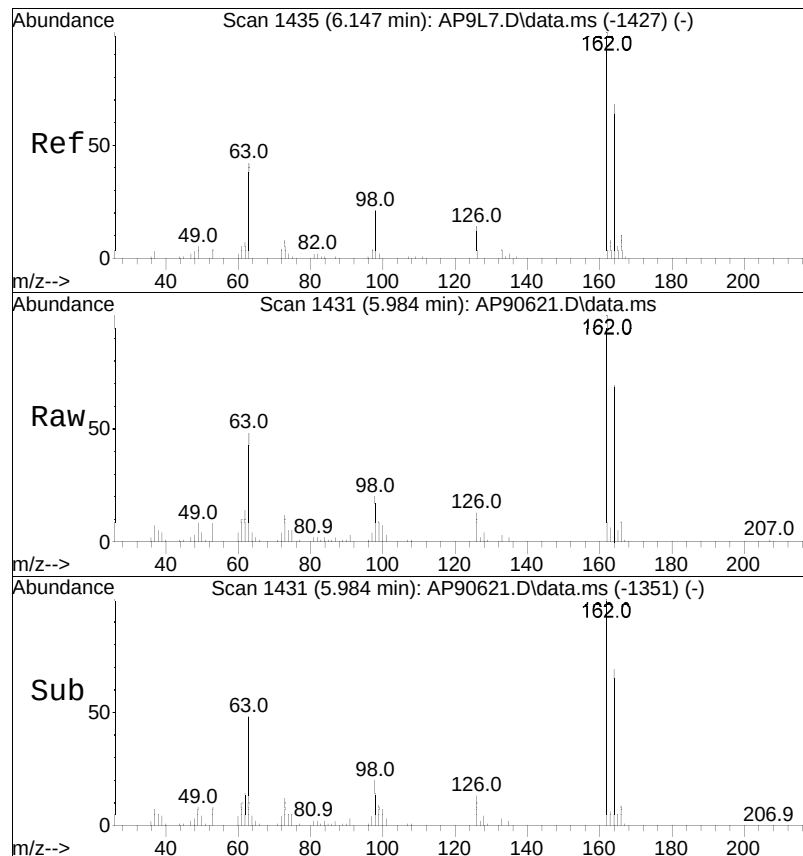




#59
 3-Chloroaniline
 Concen: 5.00 ug/ml
 RT: 5.957 min Scan# 1422
 Delta R.T. 0.000 min
 Lab File: AP90621.D
 Acq: 21 Jun 2025 6:49 am

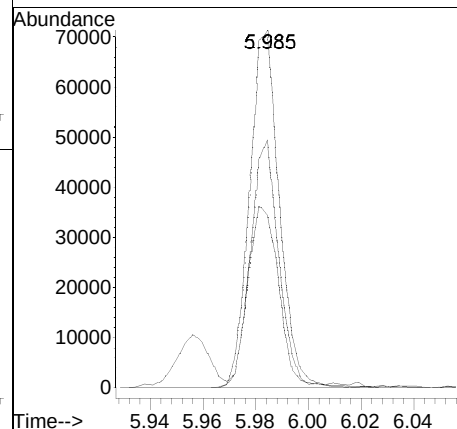
Tgt Ion:	65	Resp:	22051
Ion Ratio	Lower	Upper	
65	100		
127	258.3	243.2	364.8
129	85.1	78.8	118.2

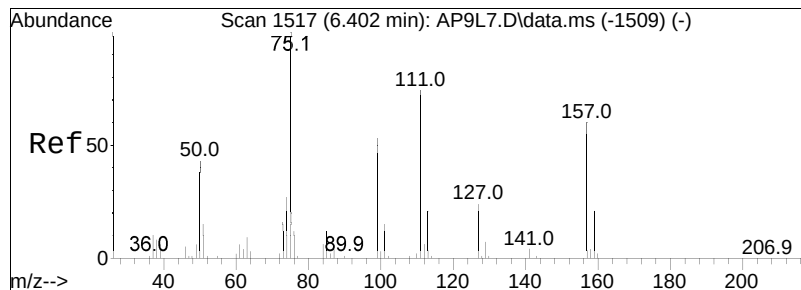




#60
 2,6-Dichlorophenol
 Concen: 5.74 ug/ml
 RT: 5.984 min Scan# 1431
 Delta R.T. 0.000 min
 Lab File: AP90621.D
 Acq: 21 Jun 2025 6:49 am

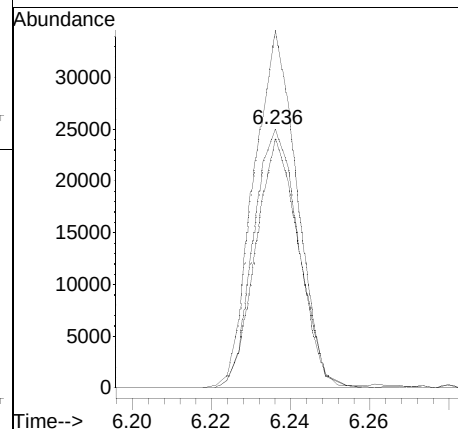
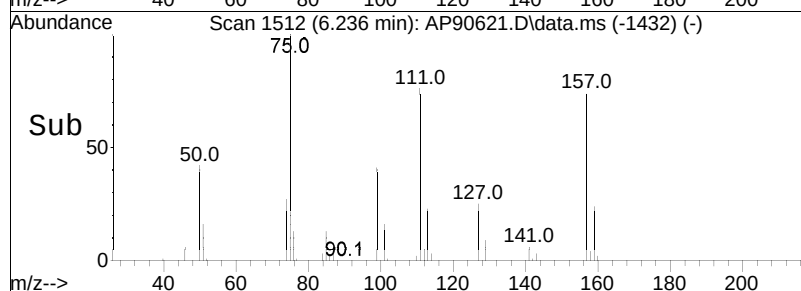
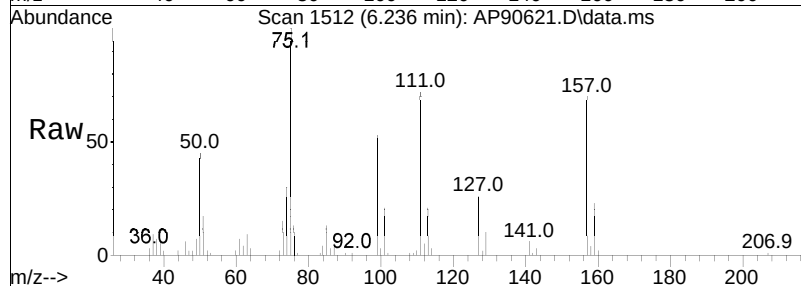
Tgt Ion	Ratio	Resp	Lower	Upper
162	100	56009		
164	65.6		51.1	76.7
63	52.9		60.8	91.2#

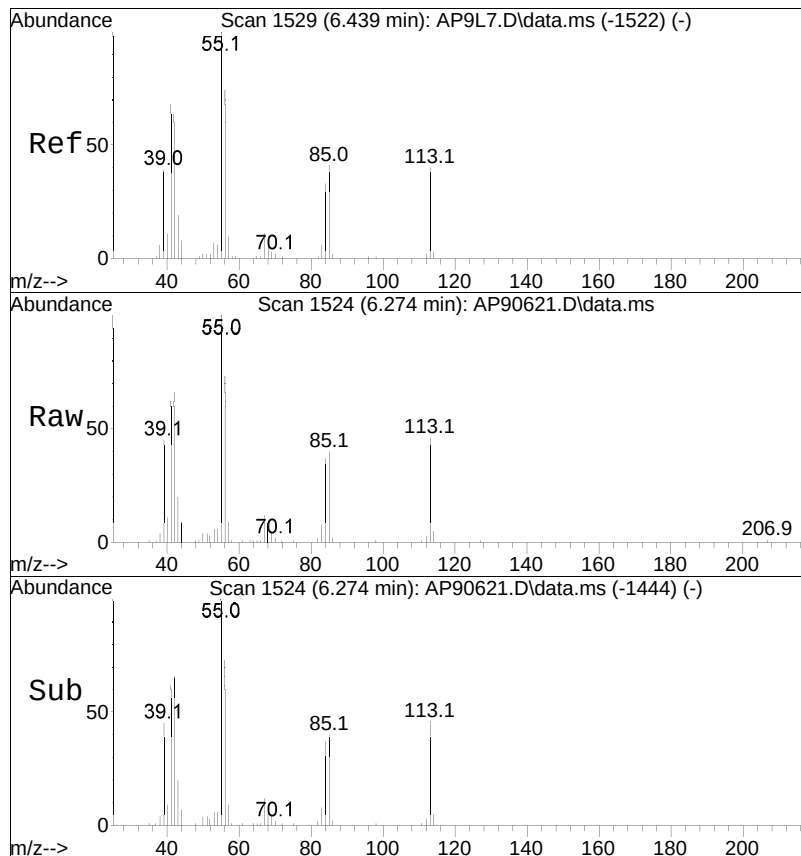




#61
 1-chloro-2-nitrobenzene
 Concen: 4.78 ug/ml
 RT: 6.236 min Scan# 1512
 Delta R.T. 0.000 min
 Lab File: AP90621.D
 Acq: 21 Jun 2025 6:49 am

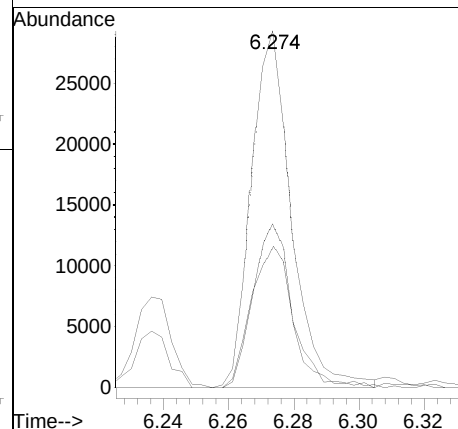
Tgt Ion	Ratio	Lower	Upper
111	100		
157	91.8	0.0	0.0#
75	132.6	28.2	42.2#

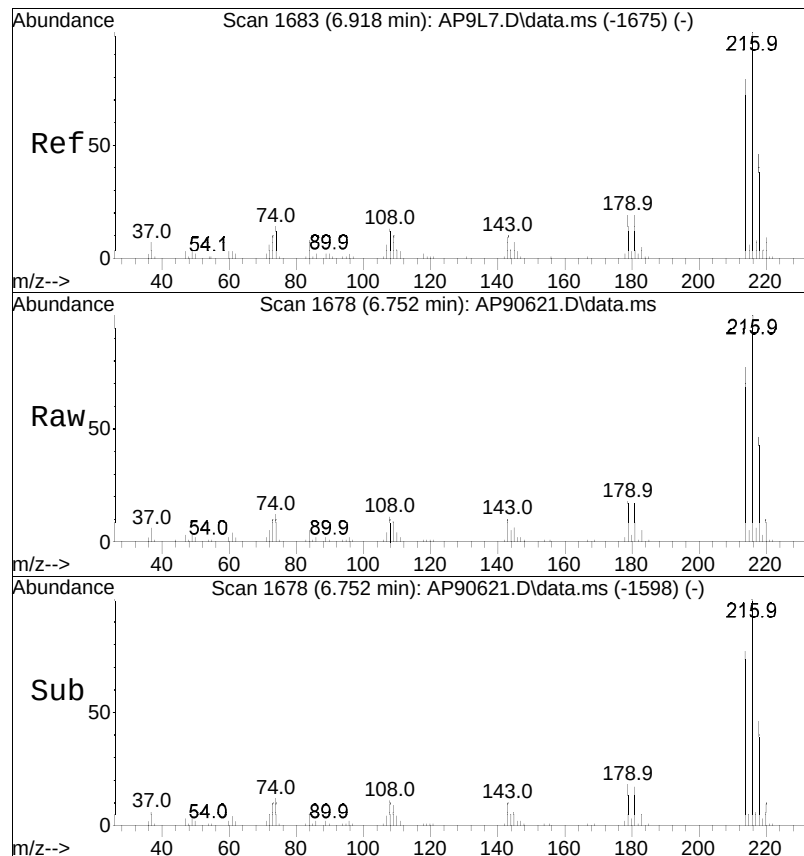




#62
 Caprolactam
 Concen: 4.98 ug/ml
 RT: 6.274 min Scan# 1524
 Delta R.T. 0.000 min
 Lab File: AP90621.D
 Acq: 21 Jun 2025 6:49 am

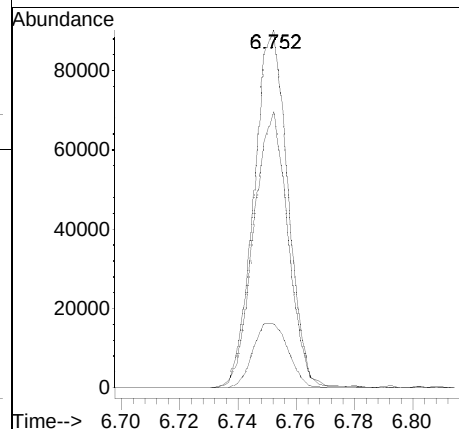
Tgt Ion	Ratio	Resp	Lower	Upper
55	100	24977		
85	42.4		19.8	29.6#
113	44.6		29.6	44.4#

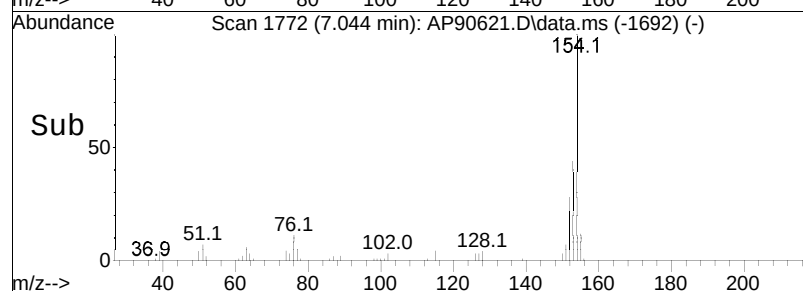
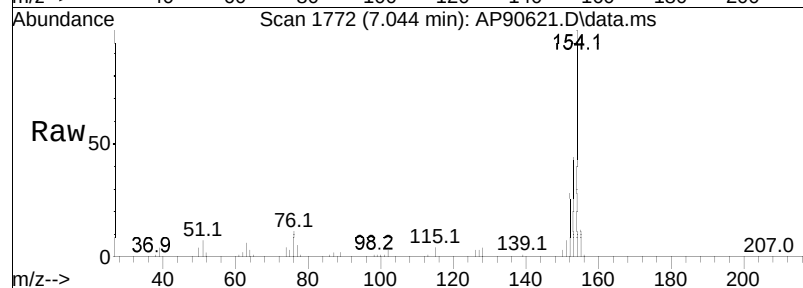
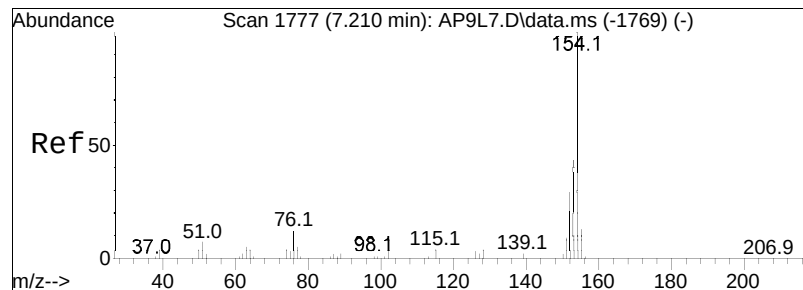




#63
 1,2,4,5-Tetrachlorobenzene
 Concen: 5.49 ug/ml
 RT: 6.752 min Scan# 1678
 Delta R.T. 0.000 min
 Lab File: AP90621.D
 Acq: 21 Jun 2025 6:49 am

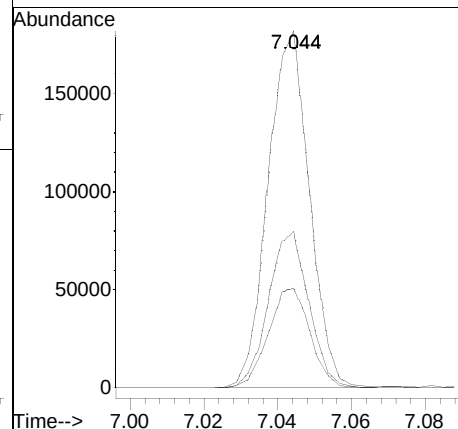
Tgt Ion	Ratio	Resp	Lower	Upper
216	100	72228		
214	78.4		63.7	95.5
179	18.9		19.0	28.6#

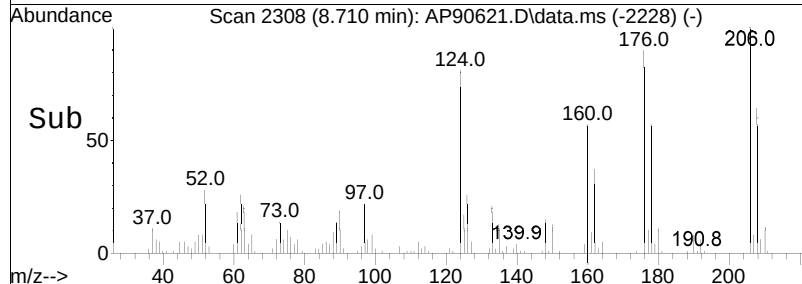
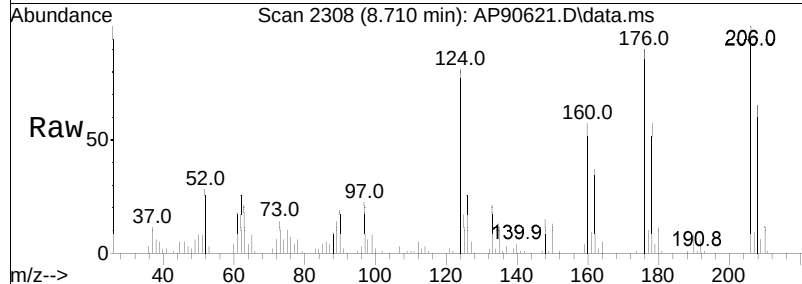
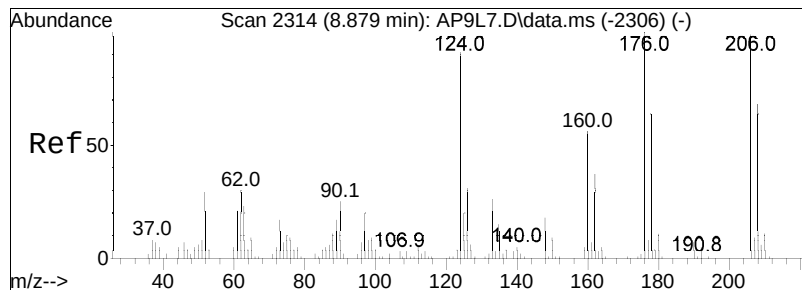




#64
Biphenyl
Concen: 5.00 ug/ml
RT: 7.044 min Scan# 1772
Delta R.T. 0.000 min
Lab File: AP90621.D
Acq: 21 Jun 2025 6:49 am

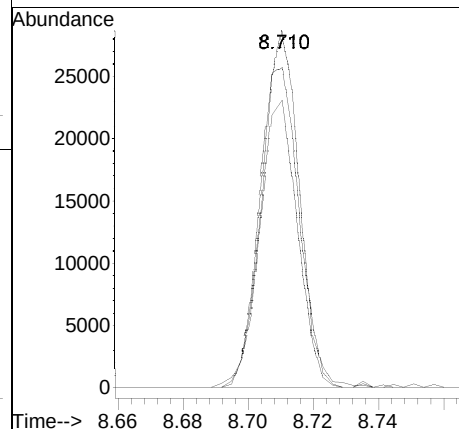
Tgt Ion	Ratio	Lower	Upper
154	100		
153	42.9	32.3	48.5
152	28.6	22.5	33.7

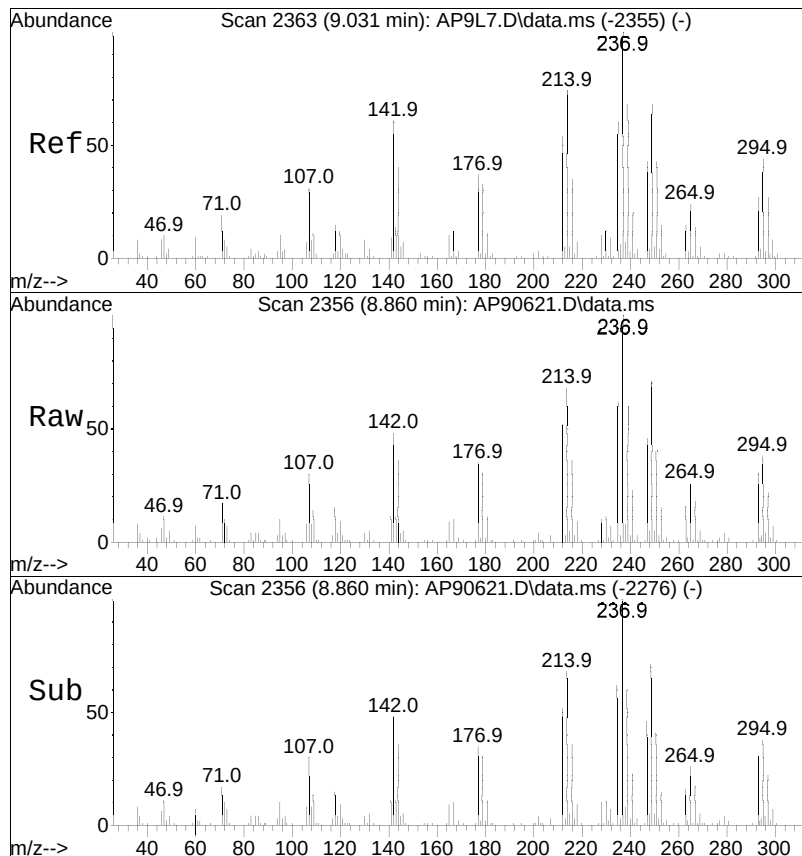




#86
 Dichloran
 Concen: 4.94 ug/ml
 RT: 8.710 min Scan# 2308
 Delta R.T. 0.000 min
 Lab File: AP90621.D
 Acq: 21 Jun 2025 6:49 am

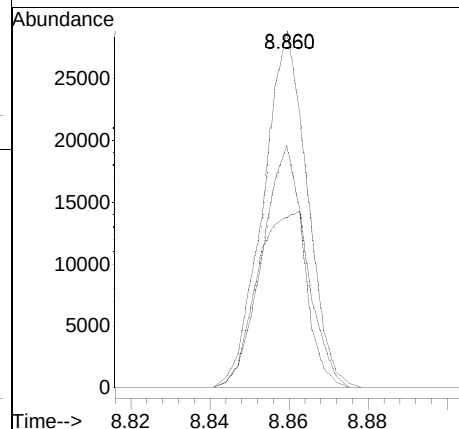
Tgt Ion:206	Resp:	22830
Ion Ratio	Lower	Upper
206 100		
176 95.4	104.6	157.0#
124 80.9	130.5	195.7#

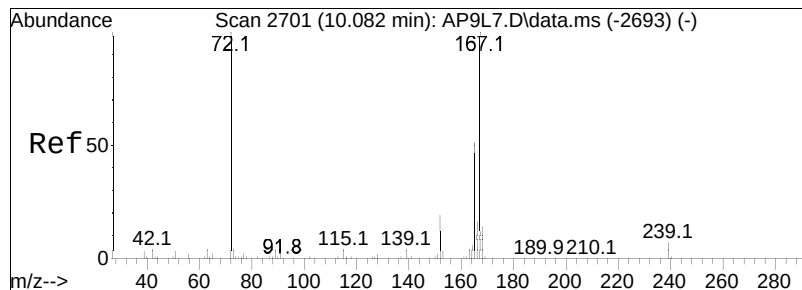




#87
 Pentachloronitrobenzene
 Concen: 5.37 ug/ml
 RT: 8.860 min Scan# 2356
 Delta R.T. 0.000 min
 Lab File: AP90621.D
 Acq: 21 Jun 2025 6:49 am

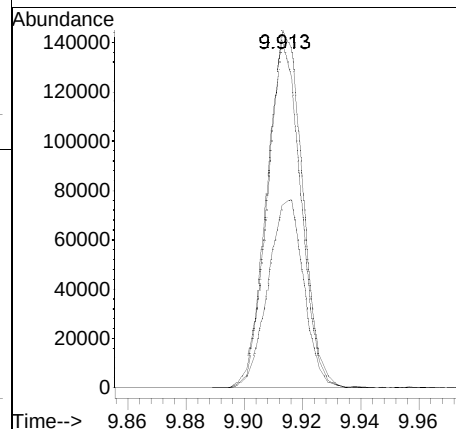
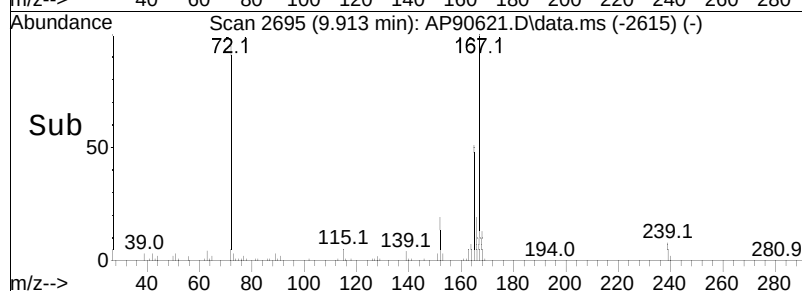
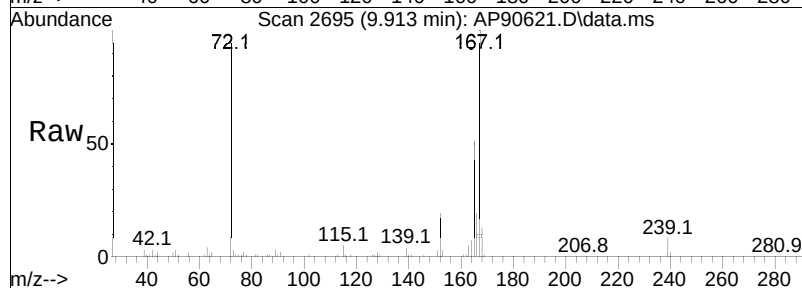
Tgt Ion	Ratio	Lower	Upper
237	100		
142	56.7	77.0	115.4#
214	67.4	58.2	87.4





#101
 Diphenamid
 Concen: 4.71 ug/ml
 RT: 9.913 min Scan# 2695
 Delta R.T. 0.000 min
 Lab File: AP90621.D
 Acq: 21 Jun 2025 6:49 am

Tgt Ion	Ratio	Lower	Upper
167	100		
72	95.9	109.7	164.5#
165	54.6	41.8	62.6



Manual Integration Report

Data Path : I:\8270\Dakota\250621RVT\ QMethod : FS250416RVT_Dakota.m
Data File : AP90621.D Operator : Dakota:imk
Date Inj'd : 6/21/2025 6:49 am Instrument : Dakota
Sample : WG2081719-4,32,,AP9 11662 QMethod : 6/21/2025 7:28 am

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\8270\Dakota\250621RVT\
 Data File : ADP0621.D
 Acq On : 21 Jun 2025 7:11 am
 Operator : Dakota:imk
 Sample : WG2081719-5,32,,ADP 11661 dv0617A
 Misc : WG2081719,,ical22203
 ALS Vial : 98 Sample Multiplier: 1

Quant Time: Jun 21 07:31:54 2025
 Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sat Jun 21 07:32:39 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
32 I	IS3_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	85	0.00
33 T	1,4-Dioxane	0.431	0.437	-1.4	90	0.00
35 T	n-Decane	1.345	1.271	5.5	82	0.00
88 I	IS3_Acenaphthene-d10	1.000	1.000	0.0	90	0.00
89 T	Atrazine	0.423	0.469	-10.9	106	0.00
102 I	IS3_Phenanthrene-d10	1.000	1.000	0.0	105	0.00
103 T	n-Octadecane	0.392	0.333	15.1	90	0.00
104 T	Parathion	* 5.000	4.287	14.3	100	0.00
105 T	3,3'-Dimethylbenzidine	* 5.000	3.685	26.3#	85	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250621RVT\
 Data File : ADP0621.D
 Acq On : 21 Jun 2025 7:11 am
 Operator : Dakota:imk
 Sample : WG2081719-5,32,,ADP 11661 dv0617A
 Misc : WG2081719,,ical22203
 ALS Vial : 98 Sample Multiplier: 1

Quant Time: Jun 21 07:31:54 2025
 Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sat Jun 21 07:32:39 2025
 Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.654	152	30827	4.000	ug/ml	0.00
88) IS3_Acenaphthene-d10	7.585	164	78881	4.000	ug/ml	0.00
102) IS3_Phenanthrene-d10	9.012	188	198240	4.000	ug/ml	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
33) 1,4-Dioxane	1.727	88	16822	5.070	ug/ml#	80
35) n-Decane	4.546	57	48970	4.724	ug/ml#	24
89) Atrazine	8.785	200	46219	5.534	ug/ml	91
103) n-Octadecane	8.990	57	82544	4.244	ug/ml#	1
104) Parathion	9.795	109	19516	4.287	ug/ml#	90
105) 3,3'-Dimethylbenzidine	11.066	212	144007	3.685	ug/ml	99

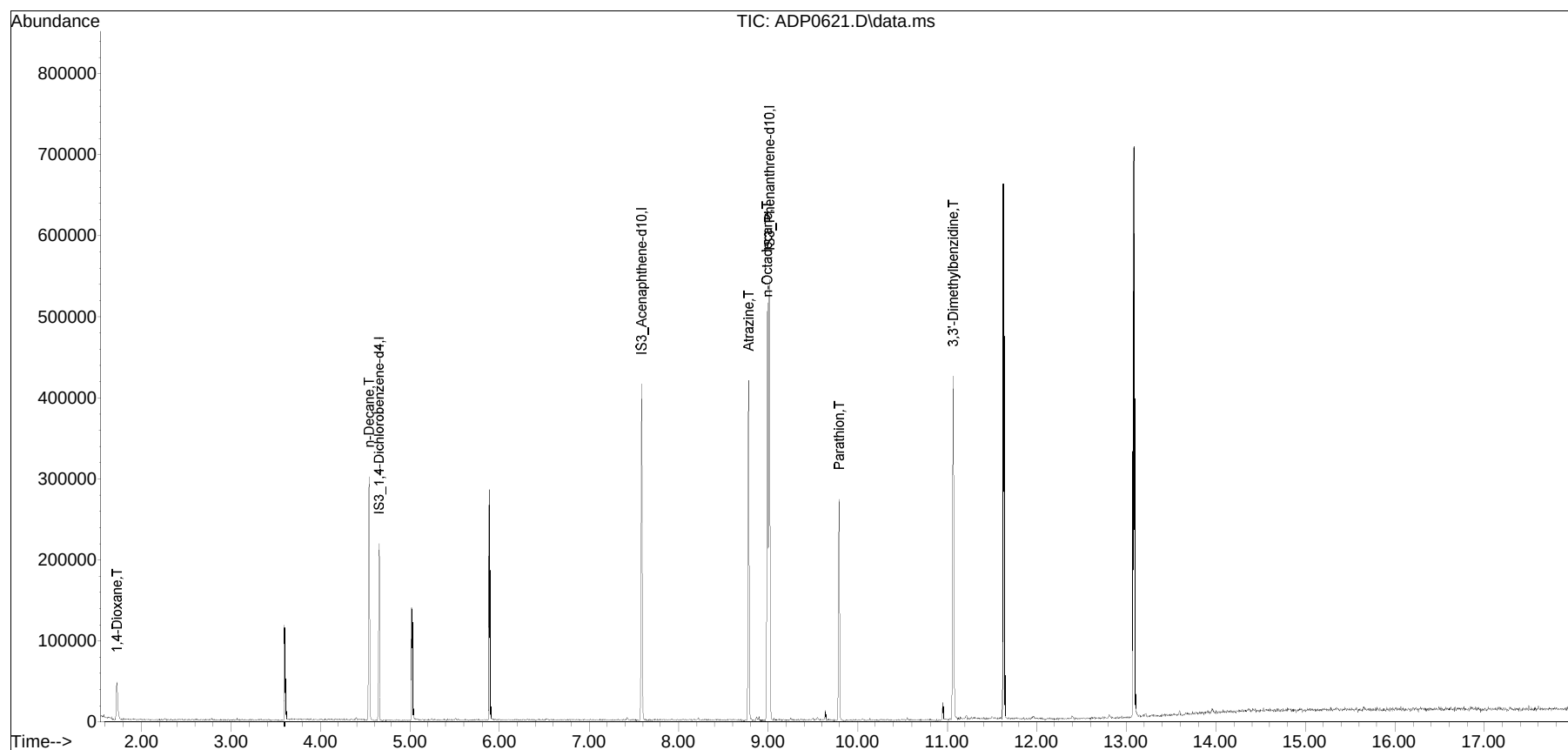
(#) = qualifier out of range (m) = manual integration (+) = signals summed

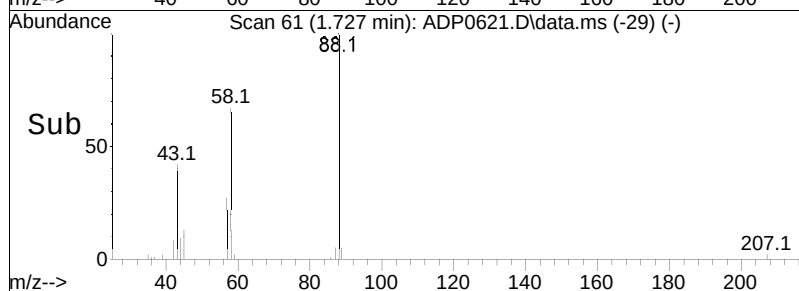
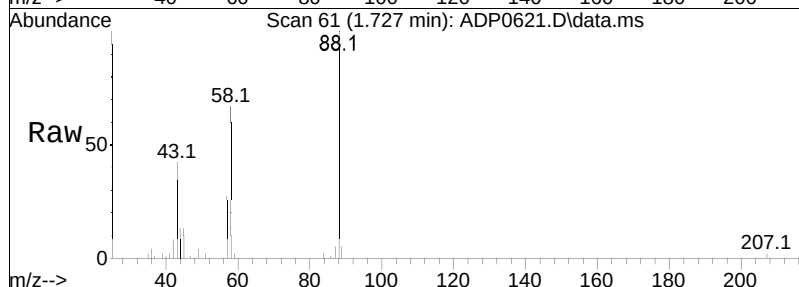
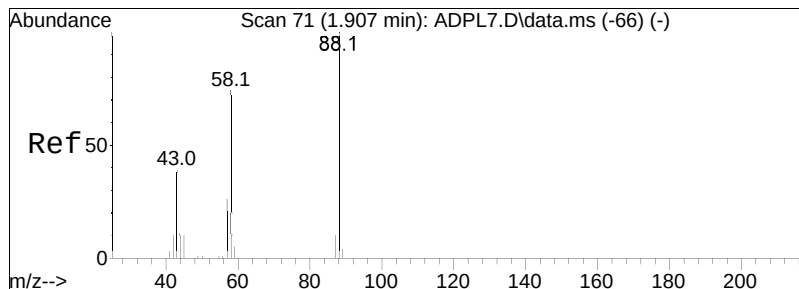
Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250621RVT\
 Data File : ADP0621.D
 Acq On : 21 Jun 2025 7:11 am
 Operator : Dakota:imk
 Sample : WG2081719-5,32,,ADP 11661 dv0617A
 Misc : WG2081719,,ical22203
 ALS Vial : 98 Sample Multiplier: 1

Quant Time: Jun 21 07:31:54 2025
 Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sat Jun 21 07:32:39 2025
 Response via : Initial Calibration

Sub List : ADPical_REV2 - ADP sublist





#33

1,4-Dioxane

Concen: 5.07 ug/ml

RT: 1.727 min Scan# 61

Delta R.T. 0.000 min

Lab File: ADP0621.D

Acq: 21 Jun 2025 7:11 am

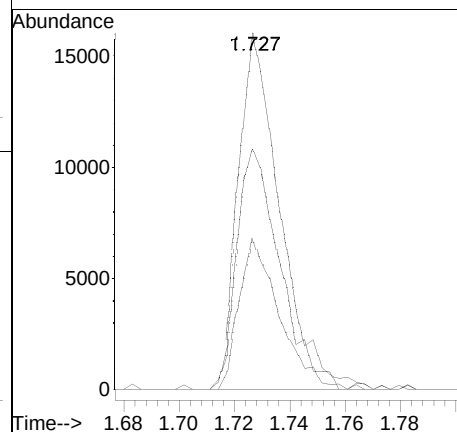
Tgt Ion: 88 Resp: 16822

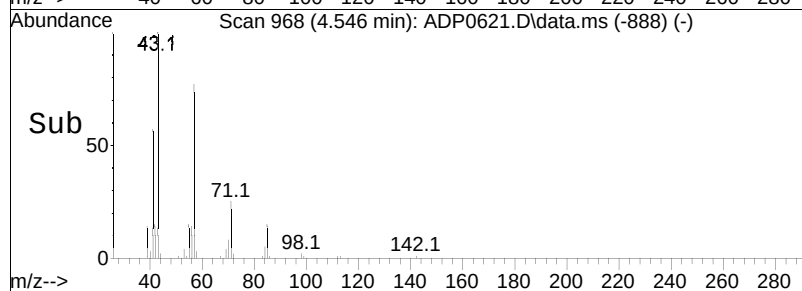
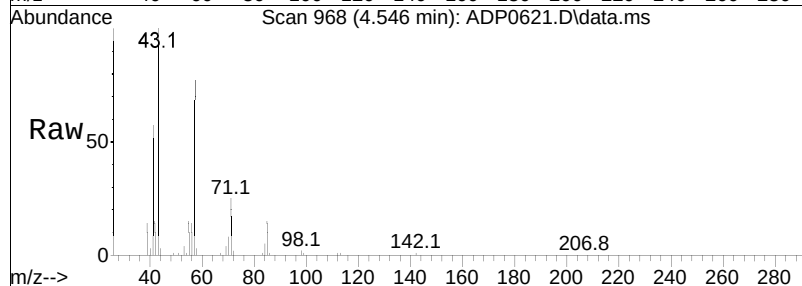
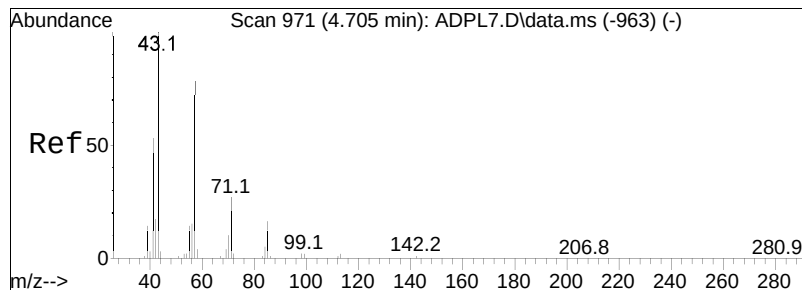
Ion Ratio Lower Upper

88 100

58 69.4 44.8 67.2#

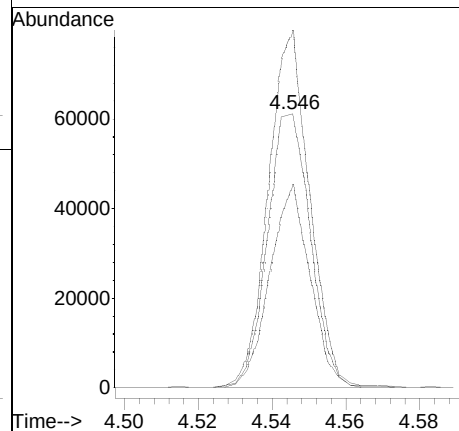
43 41.0 22.4 33.6#

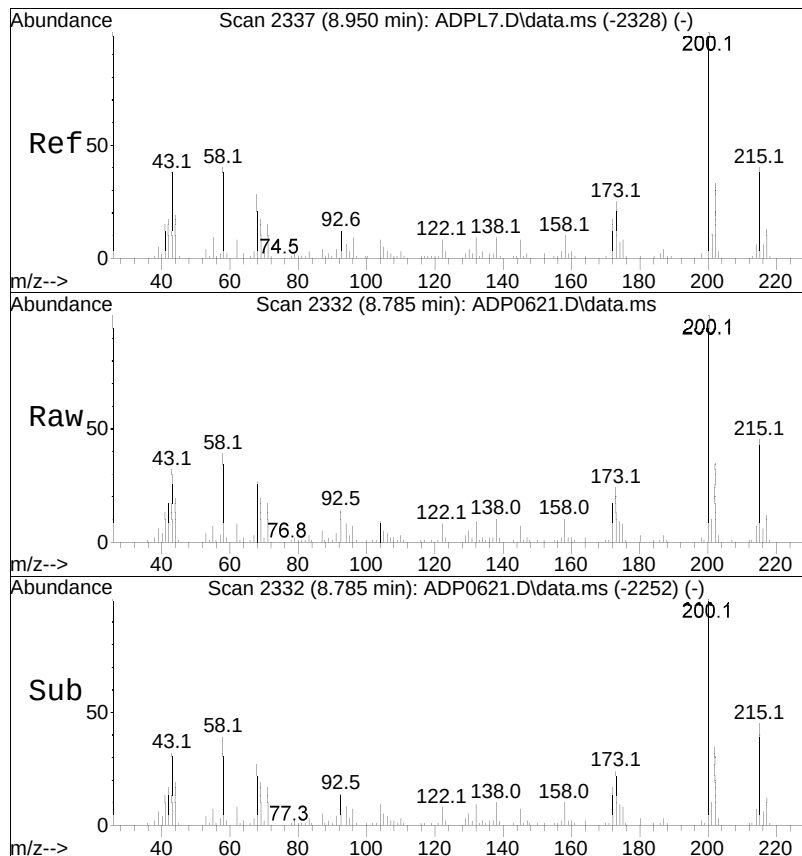




#35
n-Decane
Concen: 4.72 ug/ml
RT: 4.546 min Scan# 968
Delta R.T. 0.000 min
Lab File: ADP0621.D
Acq: 21 Jun 2025 7:11 am

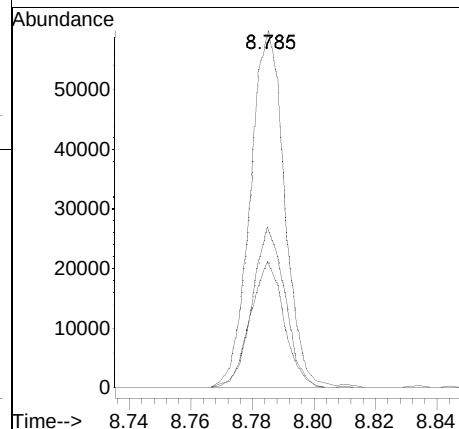
Tgt	Ion	Ratio	Resp	Lower	Upper
57	100		48970		
43	125.2	0.2		0.2#	
41	70.0	0.2		0.2#	

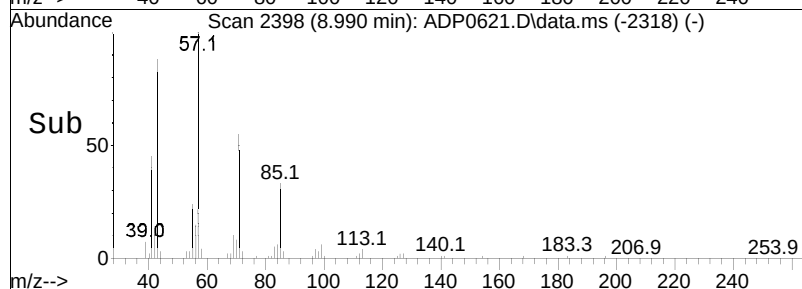
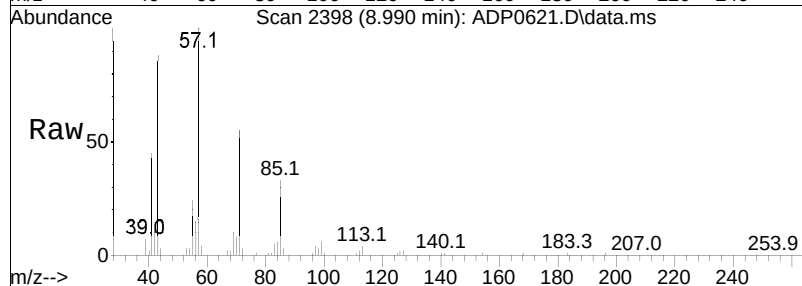
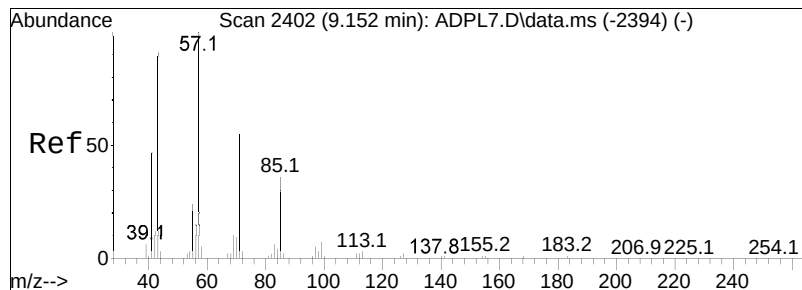




#89
 Atrazine
 Concen: 5.53 ug/ml
 RT: 8.785 min Scan# 2332
 Delta R.T. 0.000 min
 Lab File: ADP0621.D
 Acq: 21 Jun 2025 7:11 am

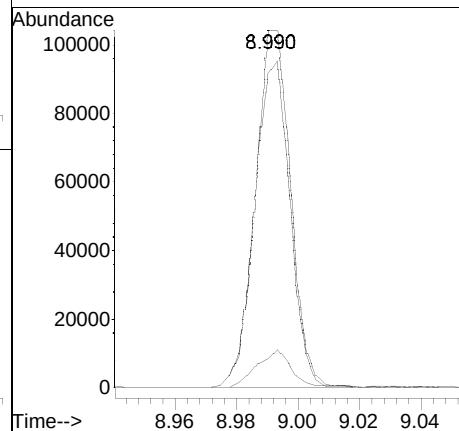
Tgt	Ion	Ratio	Resp	Lower	Upper
200	200	100	46219		
202	202	34.9		25.8	38.6
215	215	42.7		40.2	60.4

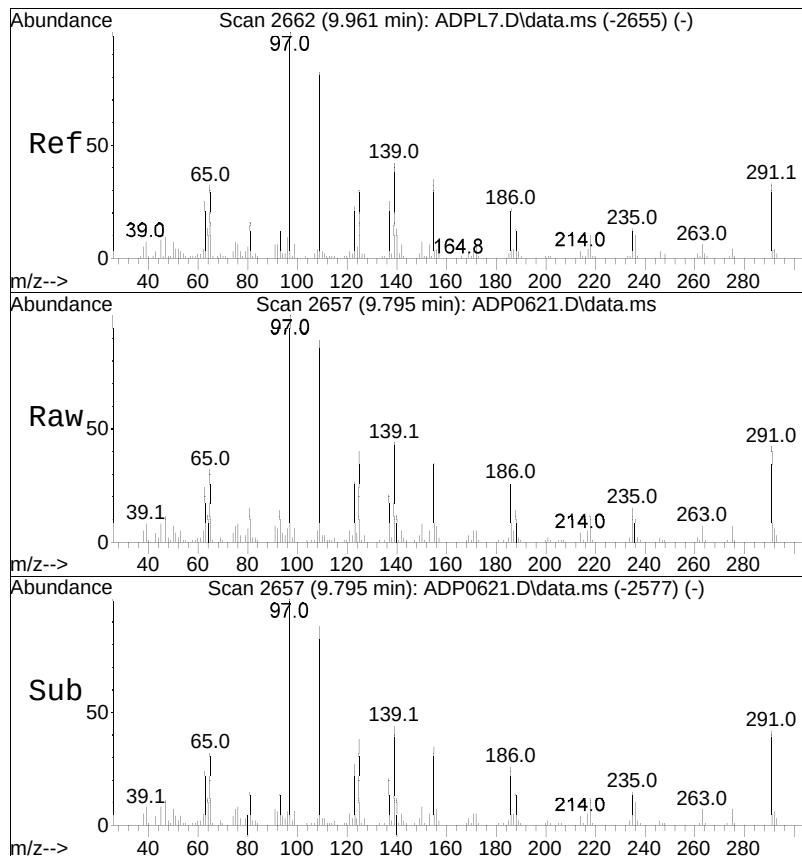




#103
n-Octadecane
Concen: 4.24 ug/ml
RT: 8.990 min Scan# 2398
Delta R.T. 0.000 min
Lab File: ADP0621.D
Acq: 21 Jun 2025 7:11 am

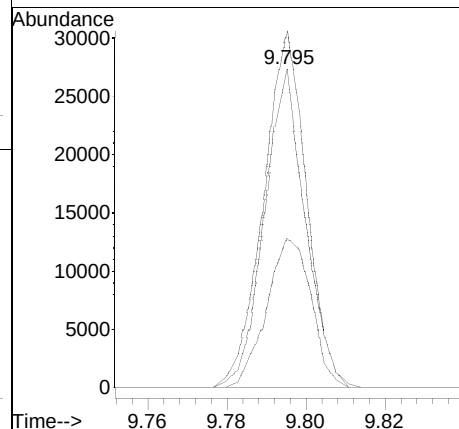
Tgt Ion	Ratio	Lower	Upper
57	100		
43	91.2	9.0	13.6#
70	10.5	0.2	0.2#

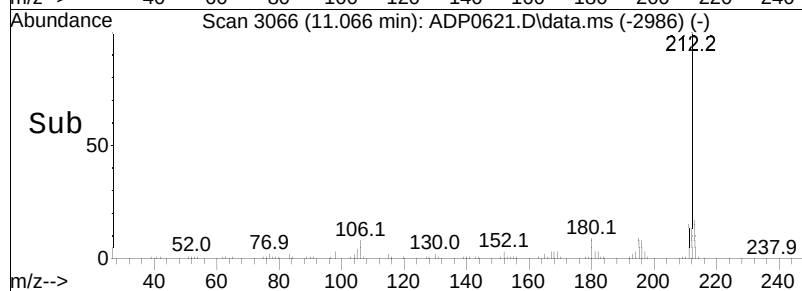
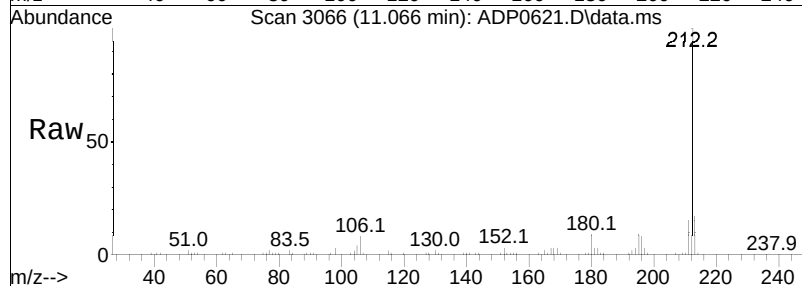
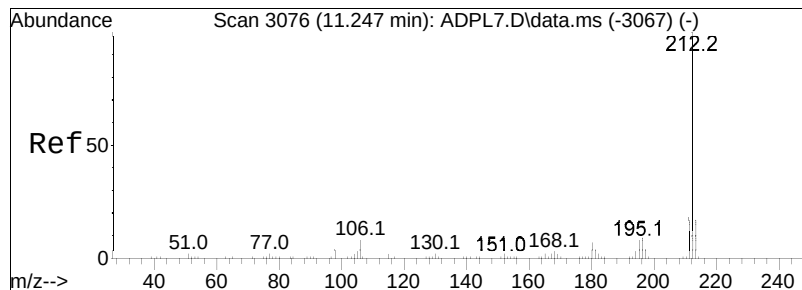




#104
 Parathion
 Concen: 4.29 ug/ml
 RT: 9.795 min Scan# 2657
 Delta R.T. 0.000 min
 Lab File: ADP0621.D
 Acq: 21 Jun 2025 7:11 am

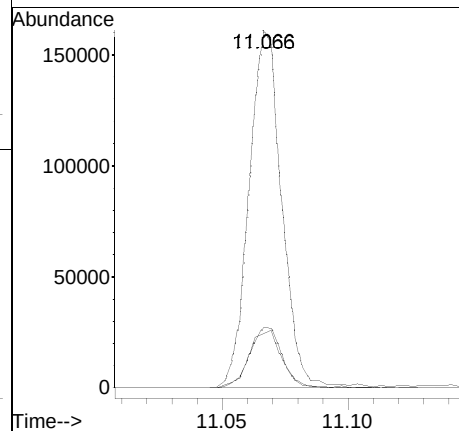
Tgt Ion:	109	Resp:	19516
Ion Ratio	Lower	Upper	
109	100		
97	117.8	87.4	131.2
291	51.3	34.2	51.2#





#105
 3,3'-Dimethylbenzidine
 Concen: 3.68 ug/ml
 RT: 11.066 min Scan# 3066
 Delta R.T. 0.000 min
 Lab File: ADP0621.D
 Acq: 21 Jun 2025 7:11 am

Tgt Ion	Ratio	Lower	Upper
212	100		
211	16.3	12.9	19.3
213	16.9	13.2	19.8



Manual Integration Report

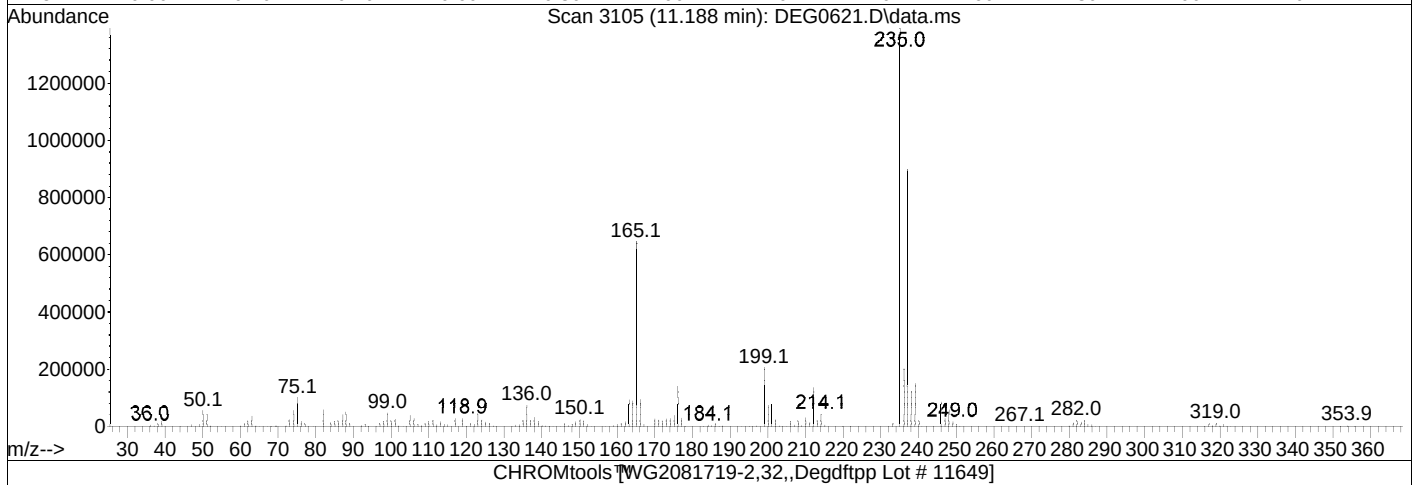
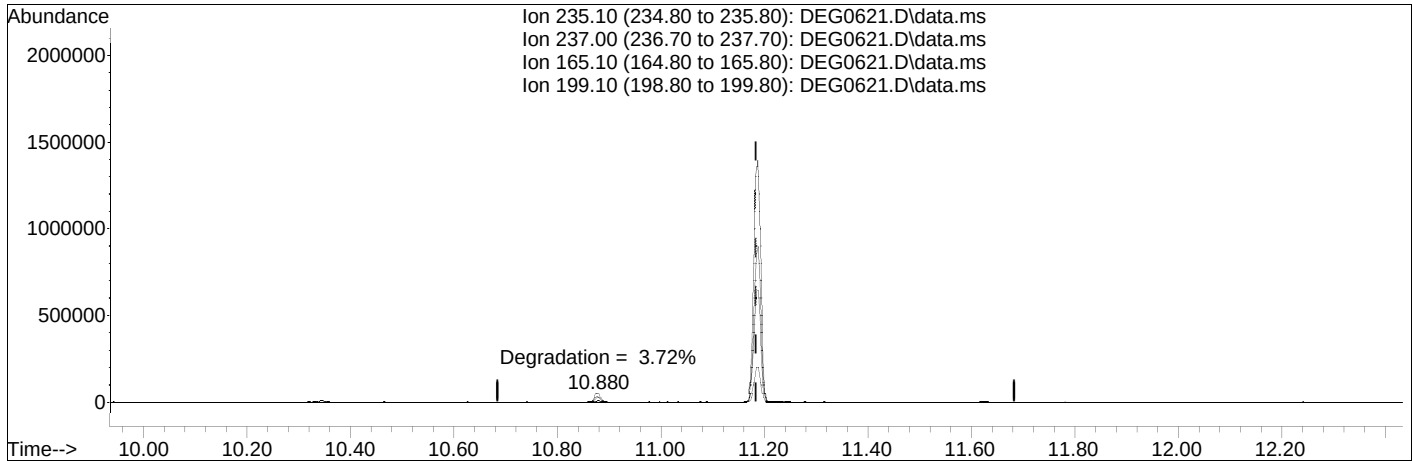
Data Path : I:\8270\Dakota\250621RVT\ QMethod : FS250416RVT_Dakota.m
Data File : ADP0621.D Operator : Dakota:imk
Date Inj'd : 6/21/2025 7:11 am Instrument : Dakota
Sample : WG2081719-5,32,,ADP 11661 Qval 17 Date : 6/21/2025 7:32 am

There are no manual integrations or false positives in this file.

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\250621RVT\
Data File : DEG0621.D
Acq On : 21 Jun 2025 6:05 am
Operator : Dakota:imk
Sample : WG2081719-2,32,,Degdftpp Lot # 11649
Misc : WG2081719,,ical22203
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Jun 21 06:55:52 2025
Quant Method : I:\8270\Dakota\250621RVT\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 17 01:09:39 2025
Response via : Initial Calibration



CHROMtools [WG2081719-2,32,,Degdftpp Lot # 11649]

(6) DDT (T)

11.188min (+ 0.004) 203.52

response 1240631

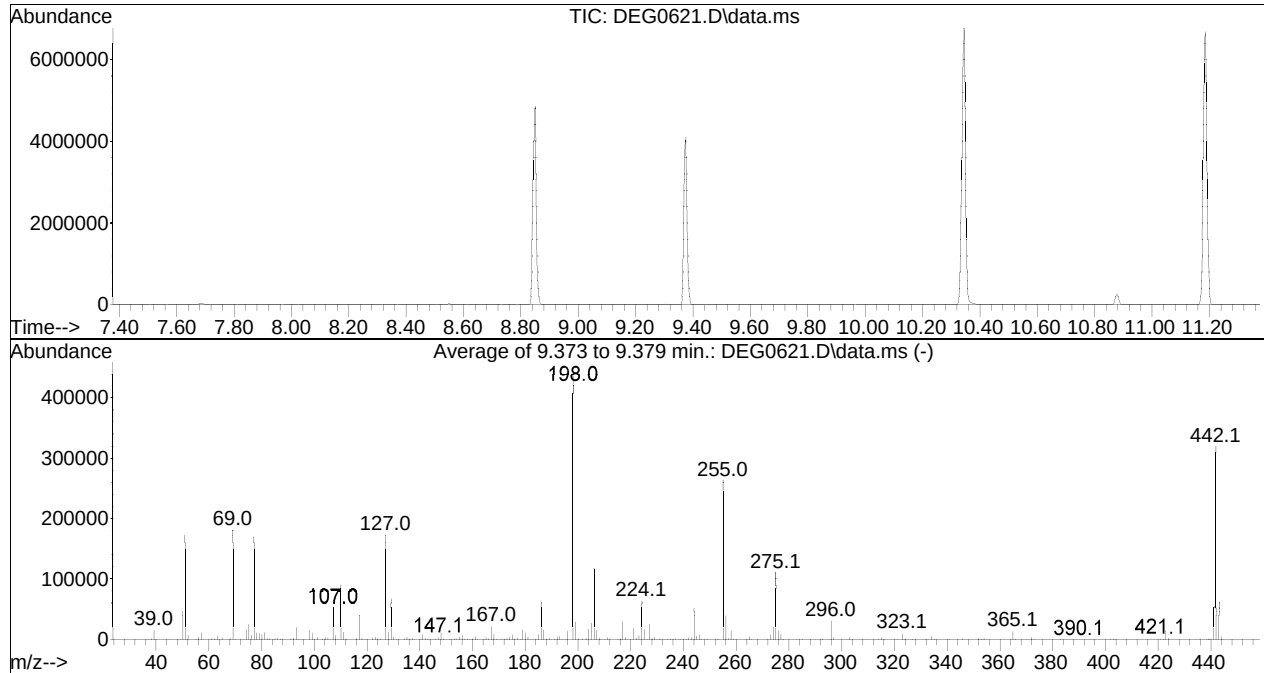
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	63.90	64.46
165.10	48.70	46.82
199.10	15.80	14.48

DFTPP

Data Path : I:\8270\Dakota\250621RVT\
 Data File : DEG0621.D
 Acq On : 21 Jun 2025 6:05 am
 Operator : Dakota:gmr
 Sample : WG2081719-1,32,,Degdftpp Lot # 11649
 Misc : WG2081719,,ical22203
 ALS Vial : 100 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Sat Jun 21 07:28:43 2025



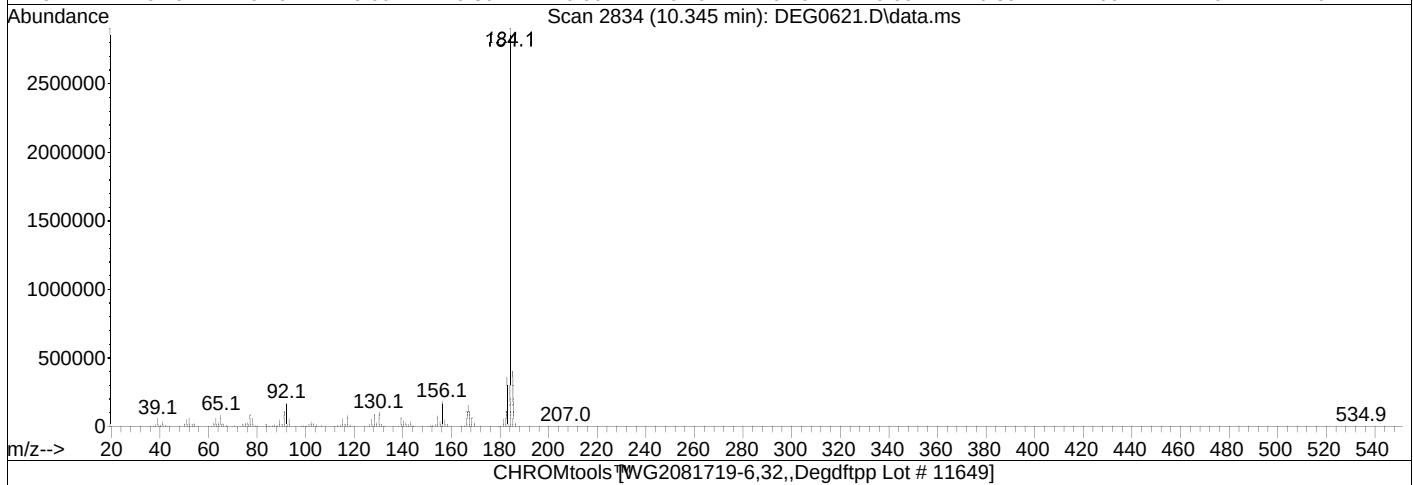
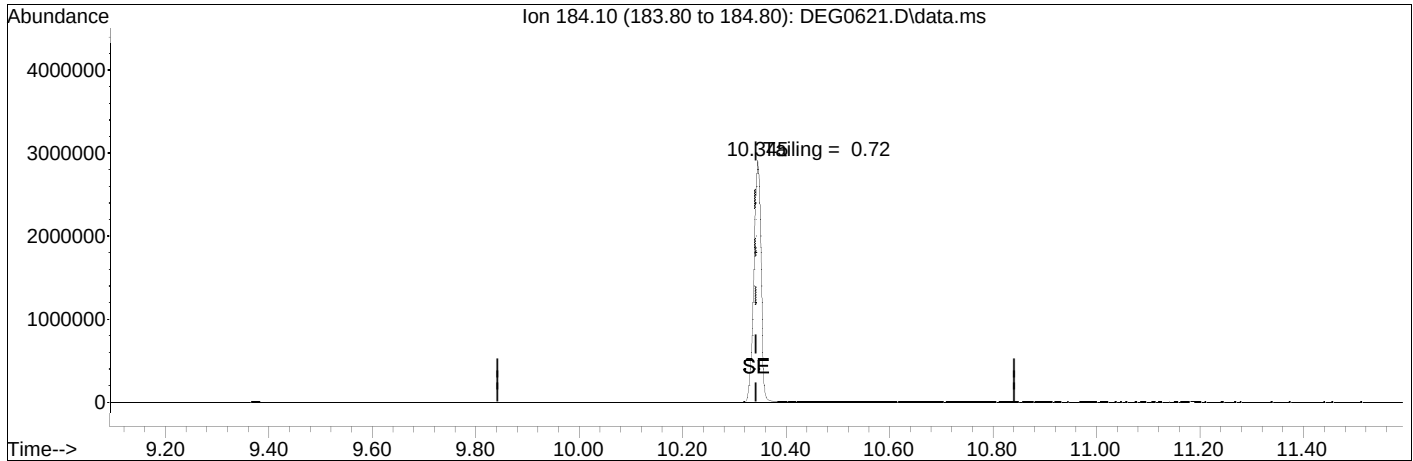
Spectrum Information: Average of 9.373 to 9.379 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	39.1	170747	PASS
68	69	0.00	2	1.4	2486	PASS
69	69	100	100	100.0	180743	PASS
70	69	0.00	2	0.5	901	PASS
127	198	10	80	39.6	172971	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	436651	PASS
199	198	5	9	6.7	29064	PASS
275	198	10	60	25.2	109861	PASS
365	198	1	100	3.2	13950	PASS
441	442	0.01	24	17.3	55259	PASS
442	198	50	100	73.1	319061	PASS
443	442	15	24	19.4	62029	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\250621RVT\
Data File : DEG0621.D
Acq On : 21 Jun 2025 6:05 am
Operator : Dakota:imk
Sample : WG2081719-6,32,,Degdftpp Lot # 11649
Misc : WG2081719,,ical22203
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Jun 21 06:55:52 2025
Quant Method : I:\8270\Dakota\250621RVT\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 17 01:09:39 2025
Response via : Initial Calibration



(3) Benzidine (T)

10.345min (+ 0.003) 253.39

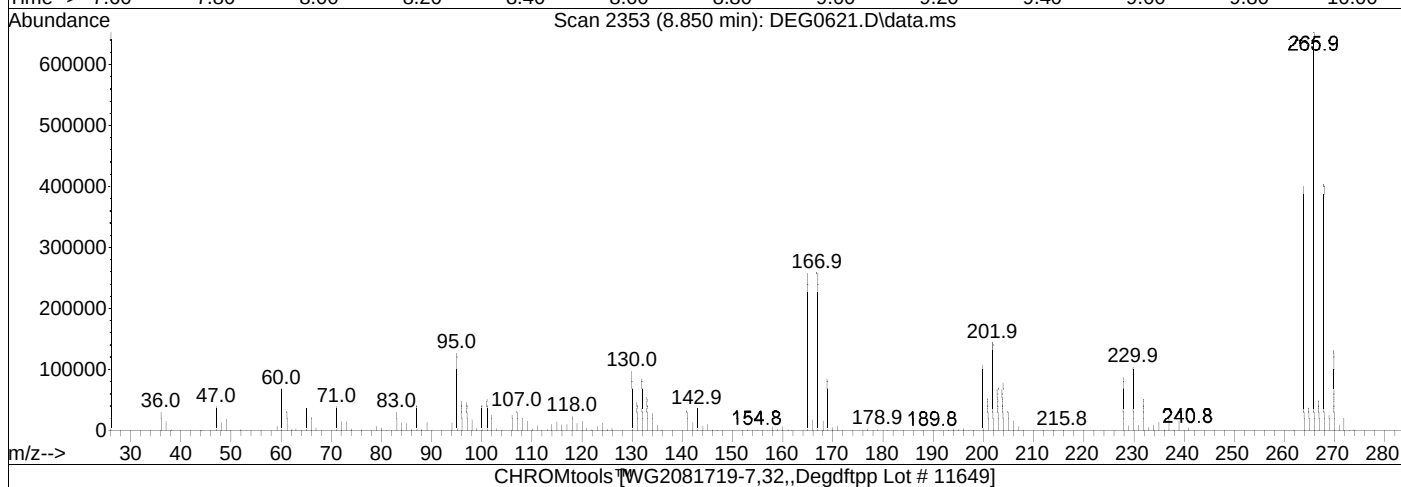
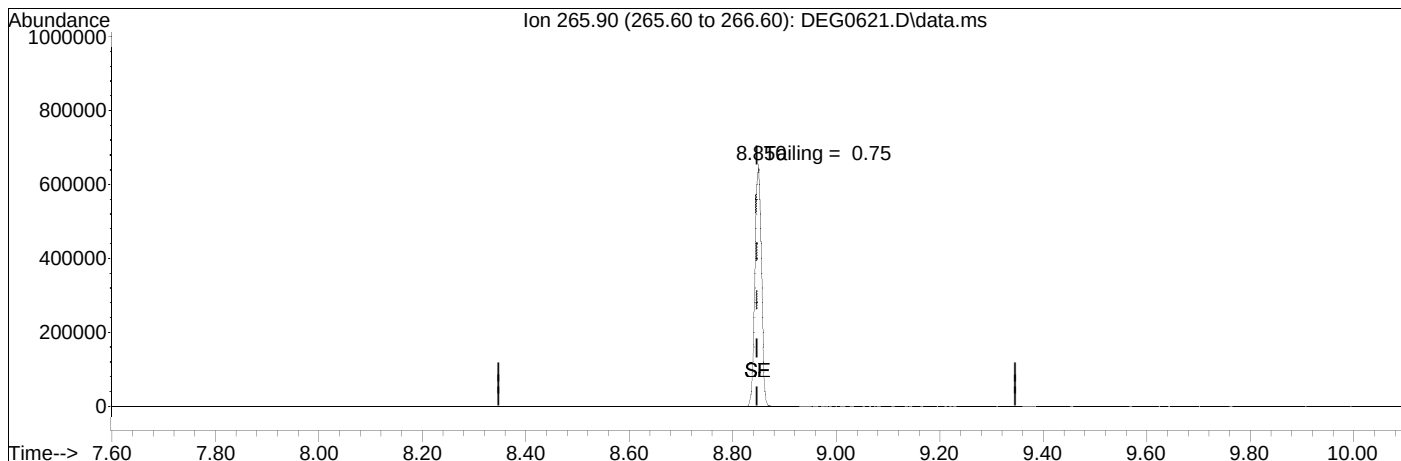
response 2579541

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\Dakota\250621RVT\
Data File : DEG0621.D
Acq On : 21 Jun 2025 6:05 am
Operator : Dakota:imk
Sample : WG2081719-7,32,,Degdftpp Lot # 11649
Misc : WG2081719,,ical22203
ALS Vial : 100 Sample Multiplier: 1

Quant Time: Jun 21 06:55:52 2025
Quant Method : I:\8270\Dakota\250621RVT\DftppDakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Jun 17 01:09:39 2025
Response via : Initial Calibration



(1) Pentachlorophenol (T)

8.850min (+ 0.003) 251.34

response 527910

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Semivolatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250621RVT\
 Data File : 081606-1.D
 Acq On : 21 Jun 2025 9:58 am
 Operator : Dakota:smz
 Sample : WG2081606-1,32,,gmr
 Misc : WG2081719,WG2081606,ical22203
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 26 15:37:05 2025
 Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sat Jun 21 07:32:38 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250621RVT\ABN0621.D
 : 2 - I:\8270\Dakota\250621RVT\ADP0621.D
 : 3 - I:\8270\Dakota\250621RVT\AP90621.D
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.654	152	33724	4.000	ug/ml	0.00
Standard Area 1 = 34284			Recovery =	98.37%		
27) IS2_1,4-Dichlorobenzen...	4.654	152	33724	4.000	ug/ml	0.00
Standard Area 3 = 33532			Recovery =	100.57%		
32) IS3_1,4-Dichlorobenzen...	4.654	152	33724	4.000	ug/ml	0.00
Standard Area 2 = 30827			Recovery =	109.40%		
37) IS1_Naphthalene-d8	5.885	136	117094	4.000	ug/ml	# 0.00
Standard Area 1 = 122540			Recovery =	95.56%		
57) IS2_Naphthalene-d8	5.885	136	117094	4.000	ug/ml	# 0.00
Standard Area 3 = 118622			Recovery =	98.71%		
65) IS1_Acenaphthene-d10	7.585	164	87442	4.000	ug/ml	0.00
Standard Area 1 = 91691			Recovery =	95.37%		
85) IS2_Acenaphthene-d10	7.585	164	87442	4.000	ug/ml	0.00
Standard Area 3 = 90024			Recovery =	97.13%		
88) IS3_Acenaphthene-d10	7.585	164	87442	4.000	ug/ml	0.00
Standard Area 2 = 78881			Recovery =	110.85%		
90) IS1_Phenanthrene-d10	9.012	188	209514	4.000	ug/ml	0.00
Standard Area 1 = 216771			Recovery =	96.65%		
102) IS3_Phenanthrene-d10	9.012	188	209514	4.000	ug/ml	0.00
Standard Area 2 = 198240			Recovery =	105.69%		
106) IS1_Chrysene-d12	11.629	240	262017	4.000	ug/ml	# 0.00
Standard Area 1 = 275522			Recovery =	95.10%		
115) IS1_Perylene-d12	13.083	264	305930	4.000	ug/ml	0.00
Standard Area 1 = 328421			Recovery =	93.15%		
System Monitoring Compounds						
4) 2-Fluorophenol	3.383	112	8717	1.007	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	50.35%		
7) Phenol-d6	4.334	99	7984	0.748	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	37.40%		
19) Nitrobenzene-d5	5.192	82	8242	0.720	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	72.00%		
48) 2-Fluorobiphenyl	6.954	172	21913	0.718	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	71.80%		
81) 2,4,6-Tribromophenol	8.347	330	10415	2.023	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	101.15%		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250621RVT\
 Data File : 081606-1.D
 Acq On : 21 Jun 2025 9:58 am
 Operator : Dakota:smz
 Sample : WG2081606-1,32,,gmr
 Misc : WG2081719,WG2081606,ical22203
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 26 15:37:05 2025
 Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sat Jun 21 07:32:38 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250621RVT\ABN0621.D
 : 2 - I:\8270\Dakota\250621RVT\ADP0621.D
 : 3 - I:\8270\Dakota\250621RVT\AP90621.D
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
98) 4-Terphenyl-d14	10.584	244	45730	0.817	ug/ml	0.00
Spiked Amount	1.000	Range	30 - 130	Recovery	=	81.70%
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0		N.D.	
8) Phenol	0.000		0		N.D.	
14) Bis(2-chloroisopropyl)...	0.000		0		N.D.	
15) 2-Methylphenol	0.000		0		N.D.	
17) n-Nitrosodi-n-propylamine	0.000		0		N.D.	d
18) 3-Methylphenol/4-Methy...	0.000		0		N.D.	
20) Nitrobenzene	0.000		0		N.D.	
21) Isophorone	0.000		0		N.D.	
22) 2-Nitrophenol	0.000		0		N.D.	
23) 2,4-Dimethylphenol	0.000		0		N.D.	
24) Bis(2-chloroethoxy)met...	0.000		0		N.D.	
25) 2,4-Dichlorophenol	0.000		0		N.D.	
28) Benzaldehyde	0.000		0		N.D.	
29) Acetophenone	0.000		0		N.D.	
40) 4-Chloroaniline	0.000		0		N.D.	
42) p-Chloro-m-cresol	0.000		0		N.D.	
45) Hexachlorocyclopentadiene	0.000		0		N.D.	
46) 2,4,6-Trichlorophenol	0.000		0		N.D.	
47) 2,4,5-Trichlorophenol	0.000		0		N.D.	
50) 2-Nitroaniline	0.000		0		N.D.	
53) Dimethyl phthalate	0.000		0		N.D.	d
55) 2,6-Dinitrotoluene	0.000		0		N.D.	d
62) Caprolactam	0.000		0		N.D.	
63) 1,2,4,5-Tetrachloroben...	0.000		0		N.D.	
64) Biphenyl	0.000		0		N.D.	
66) 3-Nitroaniline	0.000		0		N.D.	
68) 2,4-Dinitrophenol	0.000		0		N.D.	
69) Dibenzofuran	0.000		0		N.D.	
70) 2,4-Dinitrotoluene	0.000		0		N.D.	d
71) 4-Nitrophenol	0.000		0		N.D.	
74) Diethyl phthalate	0.000		0		N.D.	
76) 4-Chlorophenyl phenyl ...	0.000		0		N.D.	
77) 4-Nitroaniline	0.000		0		N.D.	

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250621RVT\
 Data File : 081606-1.D
 Acq On : 21 Jun 2025 9:58 am
 Operator : Dakota:smz
 Sample : WG2081606-1,32,,gmr
 Misc : WG2081719,WG2081606,ical22203
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 26 15:37:05 2025
 Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sat Jun 21 07:32:38 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250621RVT\ABN0621.D
 : 2 - I:\8270\Dakota\250621RVT\ADP0621.D
 : 3 - I:\8270\Dakota\250621RVT\AP90621.D
 Sub List : 8270TCL_REV2 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78)	4,6-Dinitro-o-cresol	0.000		0		N.D.	
79)	NDPA/DPA	0.000		0		N.D.	
82)	4-Bromophenyl phenyl e...	0.000		0		N.D.	
89)	Atrazine	0.000		0		N.D.	
93)	Carbazole	0.000		0		N.D.	
94)	Di-n-butylphthalate	0.000		0		N.D.	d
99)	Butyl benzyl phthalate	0.000		0		N.D.	
108)	3,3'-Dichlorobenzidine	0.000		0		N.D.	
110)	Bis(2-ethylhexyl)phtha...	0.000		0		N.D.	d
111)	Di-n-octylphthalate	0.000		0		N.D.	d

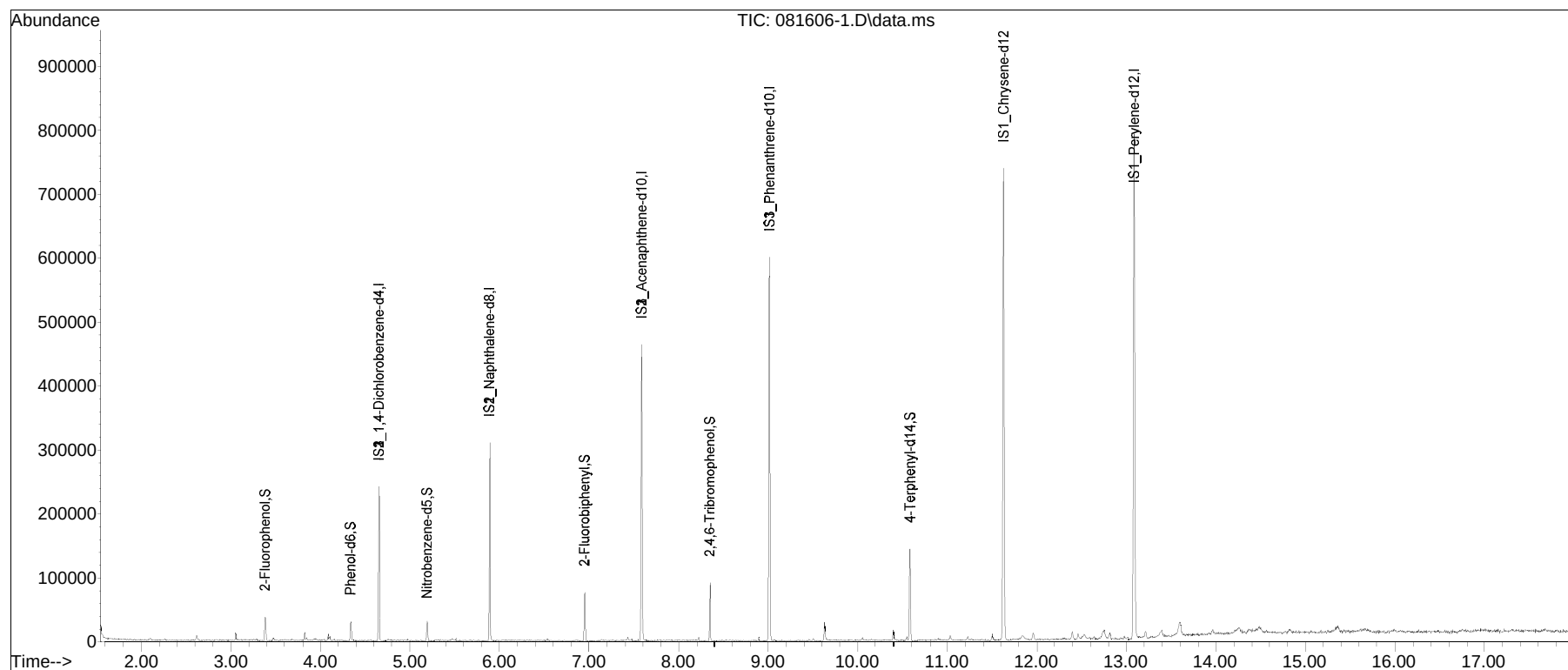
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250621RVT\
 Data File : 081606-1.D
 Acq On : 21 Jun 2025 9:58 am
 Operator : Dakota:smz
 Sample : WG2081606-1,32,,gmr
 Misc : WG2081719,WG2081606,ical22203
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 26 15:37:05 2025
 Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sat Jun 21 07:32:38 2025
 Response via : Initial Calibration

Sub List : 8270IC\8270\Dakota\250621RVT\AP90621.D•



Manual Integration Report

Data Path	: I:\8270\Dakota\250621RVT\	QMethod	: FS250416RVT_Dakota.m
Data File	: 081606-1.D	Operator	: Dakota:smz
Date Inj'd	: 6/21/2025 9:58 am	Instrument	: Dakota
Sample	: WG2081606-1,32,,gmr	Quant Date	: 6/21/2025 10:16 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250621RVT\
 Data File : 081606-2.D
 Acq On : 21 Jun 2025 9:13 am
 Operator : Dakota:smz
 Sample : WG2081606-2,32,,gmr
 Misc : WG2081719,WG2081606,ical22203
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 26 15:38:44 2025
 Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sat Jun 21 07:32:38 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250621RVT\ABN0621.D
 : 2 - I:\8270\Dakota\250621RVT\ADP0621.D
 : 3 - I:\8270\Dakota\250621RVT\AP90621.D
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.654	152	35332	4.000	ug/ml	0.00
Standard Area 1 = 34284			Recovery =	103.06%		
27) IS2_1,4-Dichlorobenzen...	4.654	152	35332	4.000	ug/ml	0.00
Standard Area 3 = 33532			Recovery =	105.37%		
32) IS3_1,4-Dichlorobenzen...	4.654	152	35332	4.000	ug/ml	0.00
Standard Area 2 = 30827			Recovery =	114.61%		
37) IS1_Naphthalene-d8	5.885	136	124757	4.000	ug/ml	# 0.00
Standard Area 1 = 122540			Recovery =	101.81%		
57) IS2_Naphthalene-d8	5.885	136	124757	4.000	ug/ml	# 0.00
Standard Area 3 = 118622			Recovery =	105.17%		
65) IS1_Acenaphthene-d10	7.585	164	96588	4.000	ug/ml	0.00
Standard Area 1 = 91691			Recovery =	105.34%		
85) IS2_Acenaphthene-d10	7.585	164	96588	4.000	ug/ml	0.00
Standard Area 3 = 90024			Recovery =	107.29%		
88) IS3_Acenaphthene-d10	7.585	164	96588	4.000	ug/ml	0.00
Standard Area 2 = 78881			Recovery =	122.45%		
90) IS1_Phenanthrene-d10	9.012	188	226346	4.000	ug/ml	0.00
Standard Area 1 = 216771			Recovery =	104.42%		
102) IS3_Phenanthrene-d10	9.012	188	226346	4.000	ug/ml	0.00
Standard Area 2 = 198240			Recovery =	114.18%		
106) IS1_Chrysene-d12	11.629	240	296781	4.000	ug/ml	# 0.00
Standard Area 1 = 275522			Recovery =	107.72%		
115) IS1_Perylene-d12	13.084	264	349214	4.000	ug/ml	0.00
Standard Area 1 = 328421			Recovery =	106.33%		
System Monitoring Compounds						
4) 2-Fluorophenol	3.383	112	10040	1.107	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	55.35%		
7) Phenol-d6	4.337	99	9953	0.890	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	44.50%		
19) Nitrobenzene-d5	5.195	82	10167	0.848	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	84.80%		
48) 2-Fluorobiphenyl	6.954	172	26713	0.822	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	82.20%		
81) 2,4,6-Tribromophenol	8.347	330	12959	2.279	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	113.95%#		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250621RVT\
 Data File : 081606-2.D
 Acq On : 21 Jun 2025 9:13 am
 Operator : Dakota:smz
 Sample : WG2081606-2,32,,gmr
 Misc : WG2081719,WG2081606,ical22203
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 26 15:38:44 2025
 Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sat Jun 21 07:32:38 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250621RVT\ABN0621.D
 : 2 - I:\8270\Dakota\250621RVT\ADP0621.D
 : 3 - I:\8270\Dakota\250621RVT\AP90621.D
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
98) 4-Terphenyl-d14	10.585	244	53165	0.879	ug/ml	0.00
Spiked Amount	1.000	Range	30 - 130	Recovery	=	87.90%
Target Compounds						Qvalue
6) 2-Chlorophenol	4.449	128	16514	1.645	ug/ml	95
8) Phenol	4.350	94	12133	0.891	ug/ml#	51
14) Bis(2-chloroisopropyl)...	4.953	45	27296	1.444	ug/ml	96
15) 2-Methylphenol	4.934	108	14303	1.597	ug/ml	97
17) n-Nitrosodi-n-propylamine	5.071	70	13074	1.631	ug/ml#	91
18) 3-Methylphenol/4-Methy...	5.093	108	14461	1.508	ug/ml	97
20) Nitrobenzene	5.211	77	18992	1.618	ug/ml	91
21) Isophorone	5.453	82	32914	1.526	ug/ml	96
22) 2-Nitrophenol	5.528	139	9138	1.763	ug/ml	97
23) 2,4-Dimethylphenol	5.599	107	16285	1.577	ug/ml	95
24) Bis(2-chloroethoxy)met...	5.689	93	19609	1.544	ug/ml#	91
25) 2,4-Dichlorophenol	5.764	162	19521	1.823	ug/ml#	90
28) Benzaldehyde	4.222	105	12422	1.676	ug/ml	91
29) Acetophenone	5.052	105	23970M6	1.832	ug/ml	
40) 4-Chloroaniline	5.975	65	6526	1.494	ug/ml	96
42) p-Chloro-m-cresol	6.470	107	16388	1.846	ug/ml	90
45) Hexachlorocyclopentadiene	6.752	237	6180	0.581	ug/ml#	91
46) 2,4,6-Trichlorophenol	6.870	196	17919	1.946	ug/ml	95
47) 2,4,5-Trichlorophenol	6.898	196	20892	2.045	ug/ml	99
50) 2-Nitroaniline	7.160	138	12487	1.870	ug/ml	95
53) Dimethyl phthalate	7.358	163	57307	1.816	ug/ml#	97
55) 2,6-Dinitrotoluene	7.402	165	11444	1.813	ug/ml#	77
62) Caprolactam	6.277	55	3925	0.744	ug/ml#	90
63) 1,2,4,5-Tetrachloroben...	6.752	216	21040	1.520	ug/ml#	96
64) Biphenyl	7.045	154	45365	1.531	ug/ml	98
66) 3-Nitroaniline	7.554	138	11168	1.699	ug/ml	99
68) 2,4-Dinitrophenol	7.657	184	5552	1.402	ug/ml#	77
69) Dibenzofuran	7.784	168	68399	1.512	ug/ml#	87
70) 2,4-Dinitrotoluene	7.787	165	17568	1.817	ug/ml#	87
71) 4-Nitrophenol	7.744	65	7804	1.308	ug/ml	92
74) Diethyl phthalate	8.048	149	56773	1.676	ug/ml	99
76) 4-Chlorophenyl phenyl ...	8.132	204	27305	1.495	ug/ml#	80
77) 4-Nitroaniline	8.139	138	13290	1.925	ug/ml	87

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250621RVT\
 Data File : 081606-2.D
 Acq On : 21 Jun 2025 9:13 am
 Operator : Dakota:smz
 Sample : WG2081606-2,32,,gmr
 Misc : WG2081719,WG2081606,ical22203
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 26 15:38:44 2025
 Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sat Jun 21 07:32:38 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250621RVT\ABN0621.D
 : 2 - I:\8270\Dakota\250621RVT\ADP0621.D
 : 3 - I:\8270\Dakota\250621RVT\AP90621.D
 Sub List : 8270TCL_REV2 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78)	4,6-Dinitro-o-cresol	8.176	198	9652	1.614	ug/ml#	58
79)	NDPA/DPA	8.247	169	49998	1.623	ug/ml#	92
82)	4-Bromophenyl phenyl e...	8.602	248	18854	1.634	ug/ml#	78
89)	Atrazine	8.785	200	18807	1.839	ug/ml	92
93)	Carbazole	9.248	167	103893	1.732	ug/ml	99
94)	Di-n-butylphthalate	9.640	149	99532	1.598	ug/ml	98
99)	Butyl benzyl phthalate	11.107	149	51315	1.899	ug/ml#	83
108)	3,3'-Dichlorobenzidine	11.620	252	50117	1.455	ug/ml#	94
110)	Bis(2-ethylhexyl)phtha...	11.741	149	77465	1.579	ug/ml#	95
111)	Di-n-octylphthalate	12.415	149	130284	1.635	ug/ml#	78

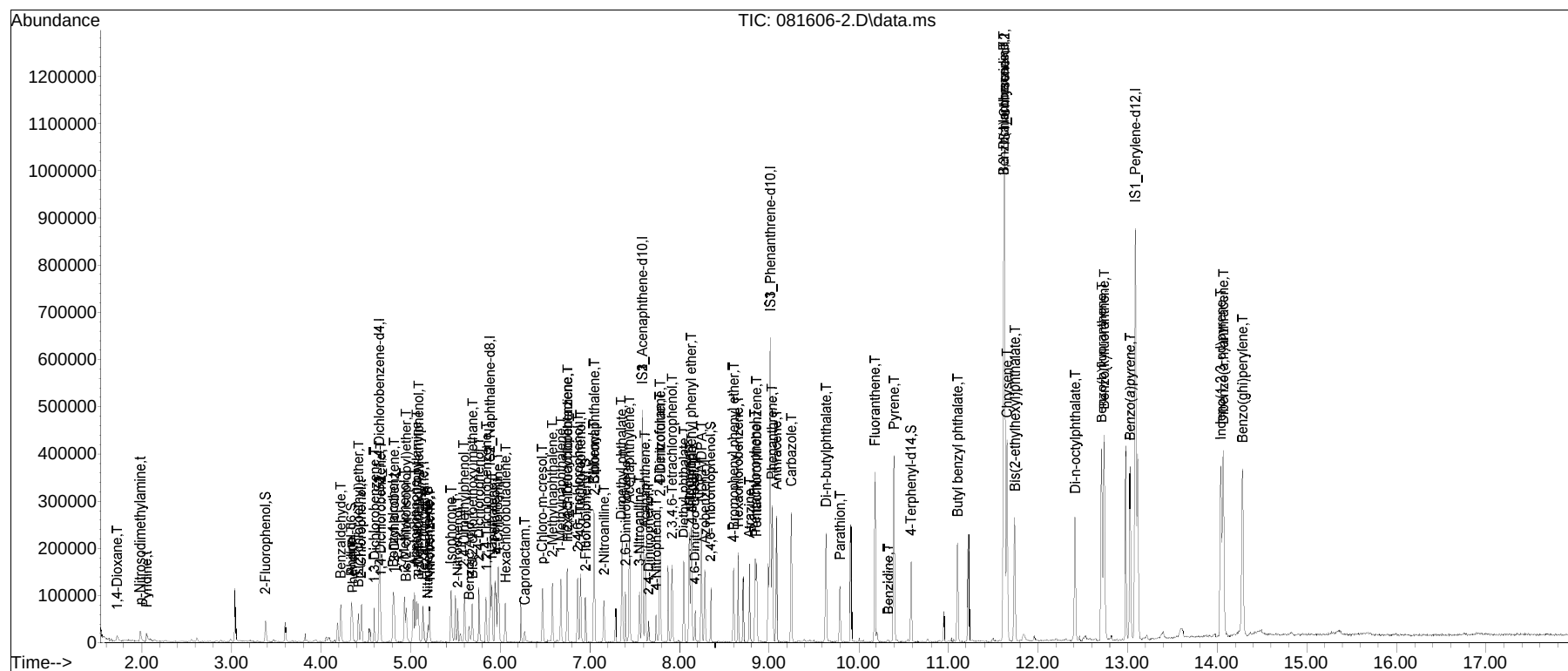
(#) = qualifier out of range (m) = manual integration (+) = signals summed

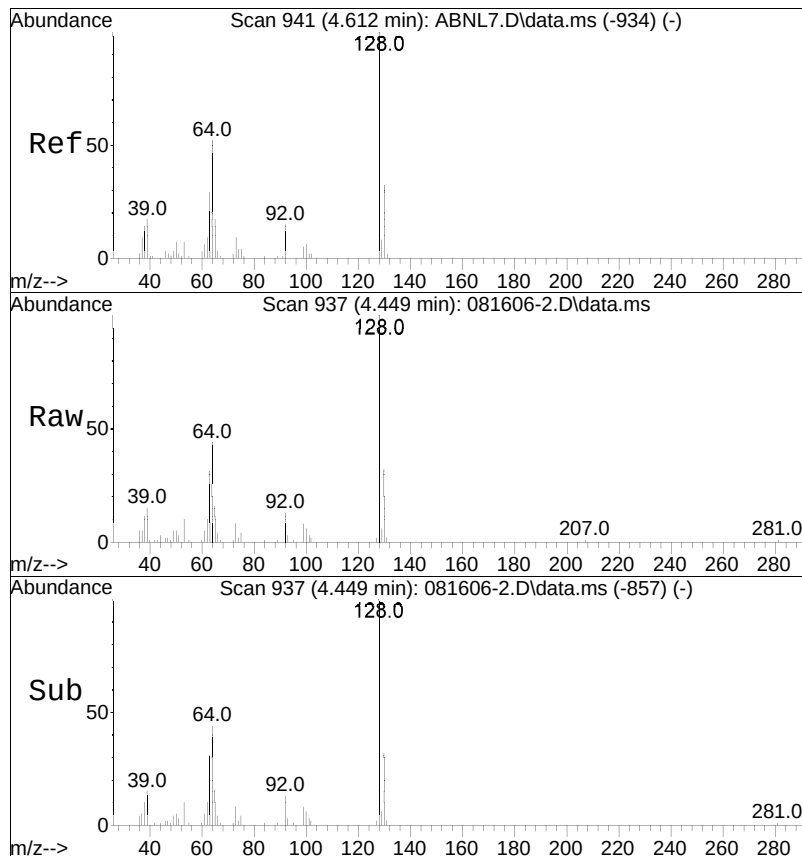
Quantitation Report (QT Reviewed)

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Data Path : I:\8270\Dakota\250621RVT\  
Data File : 081606-2.D  
Acq On    : 21 Jun 2025    9:13 am  
Operator  : Dakota:smz  
Sample    : WG2081606-2,32,,gmr  
Misc      : WG2081719,WG2081606,ical22203  
ALS Vial  : 5    Sample Multiplier: 1
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Quant Time: Jun 26 15:38:44 2025
Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 21 07:32:38 2025
Response via : Initial Calibration

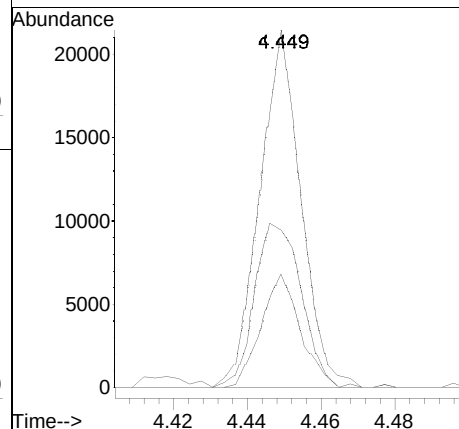
Sub List : 8270IC\8RZ02Dakota\X250021RVT\AP90621.D•

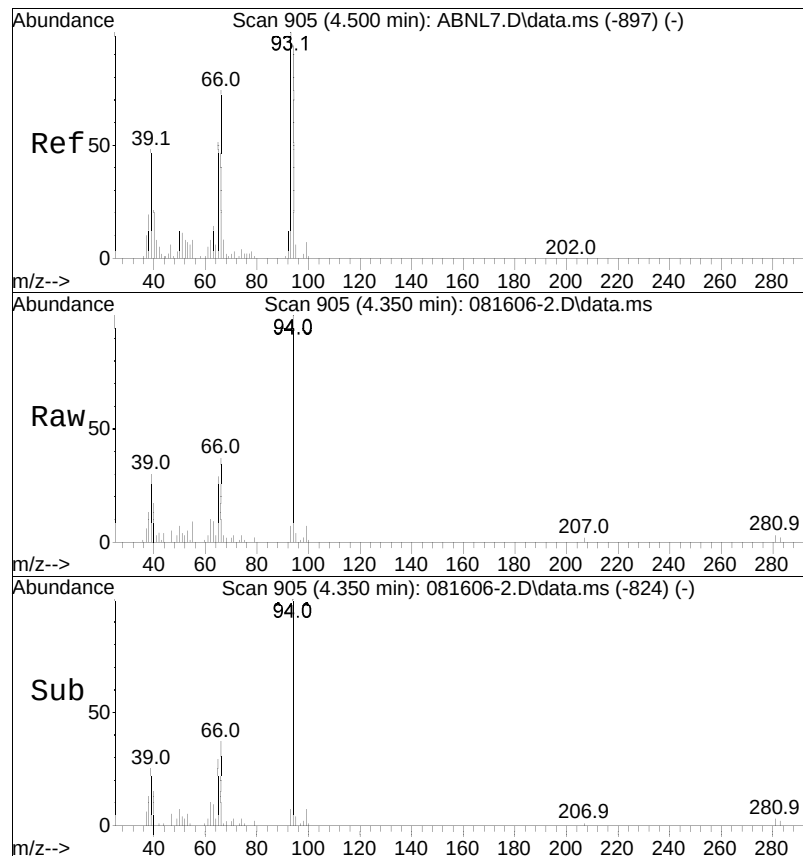




#6
 2-Chlorophenol
 Concen: 1.64 ug/ml
 RT: 4.449 min Scan# 937
 Delta R.T. 0.000 min
 Lab File: 081606-2.D
 Acq: 21 Jun 2025 9:13 am

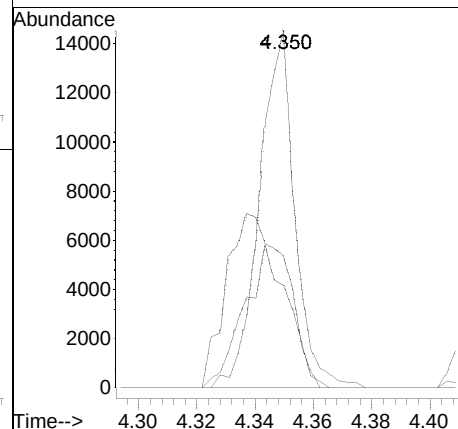
Tgt	Ion:128	Resp:	16514
Ion	Ratio	Lower	Upper
128	100		
64	52.1	45.1	67.7
130	30.6	26.2	39.4

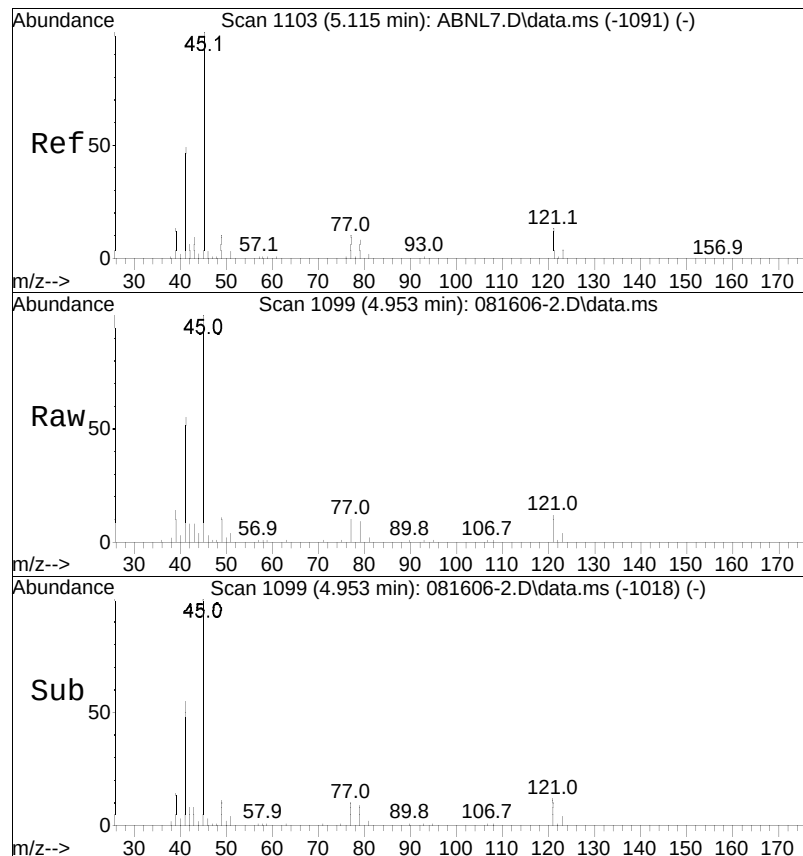




#8
 Phenol
 Concen: 0.89 ug/ml
 RT: 4.350 min Scan# 905
 Delta R.T. 0.003 min
 Lab File: 081606-2.D
 Acq: 21 Jun 2025 9:13 am

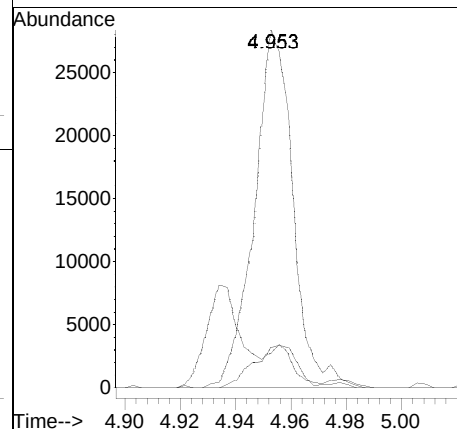
Tgt Ion	Ratio	Lower	Upper
94	100		
65	50.4	26.0	39.0#
66	81.3	33.8	50.8#

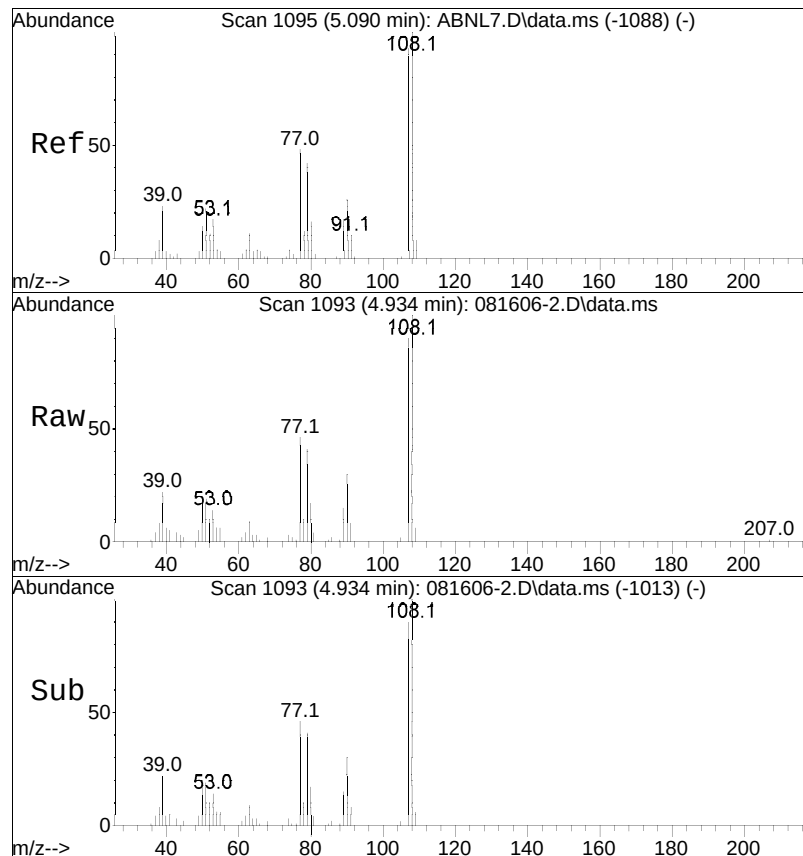




#14
 Bis(2-chloroisopropyl)ether
 Concen: 1.44 ug/ml
 RT: 4.953 min Scan# 1099
 Delta R.T. 0.003 min
 Lab File: 081606-2.D
 Acq: 21 Jun 2025 9:13 am

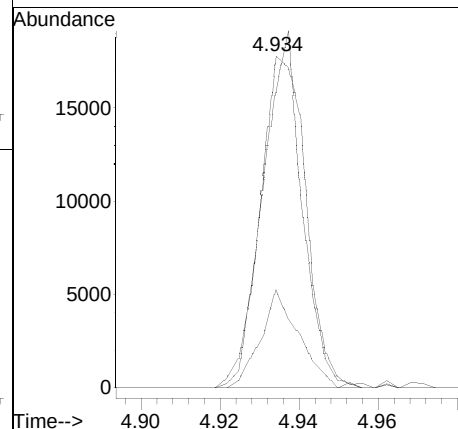
Tgt Ion:	45	Resp:	27296
Ion Ratio	Lower	Upper	
45	100		
121	13.8	9.8	14.6
77	6.6	6.1	9.1

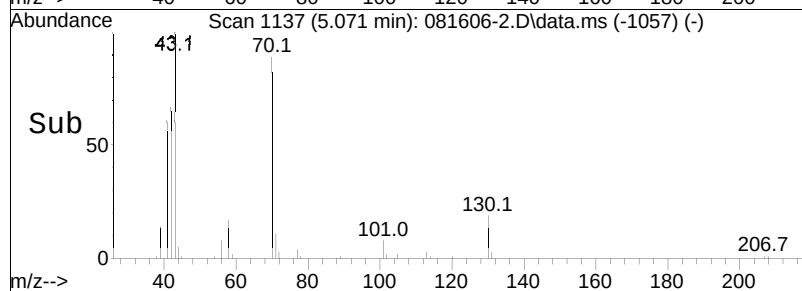
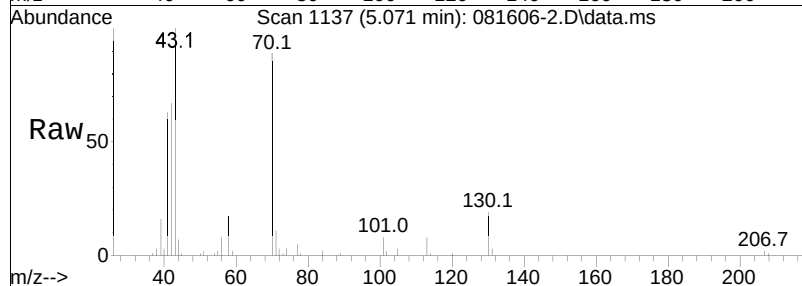
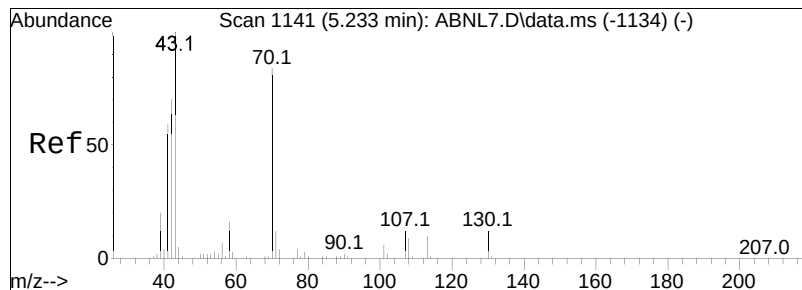




#15
 2-Methylphenol
 Concen: 1.60 ug/ml
 RT: 4.934 min Scan# 1093
 Delta R.T. 0.000 min
 Lab File: 081606-2.D
 Acq: 21 Jun 2025 9:13 am

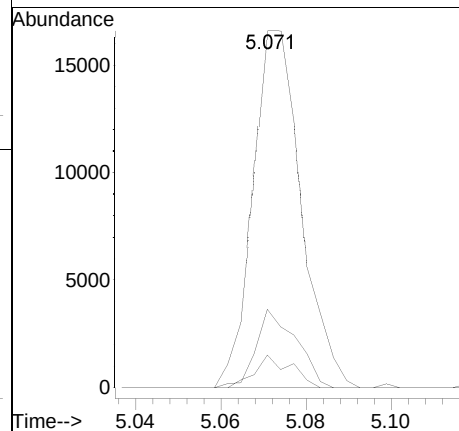
Tgt Ion	Ratio	Lower	Upper
108	100		
107	91.6	70.7	106.1
90	25.0	18.7	28.1

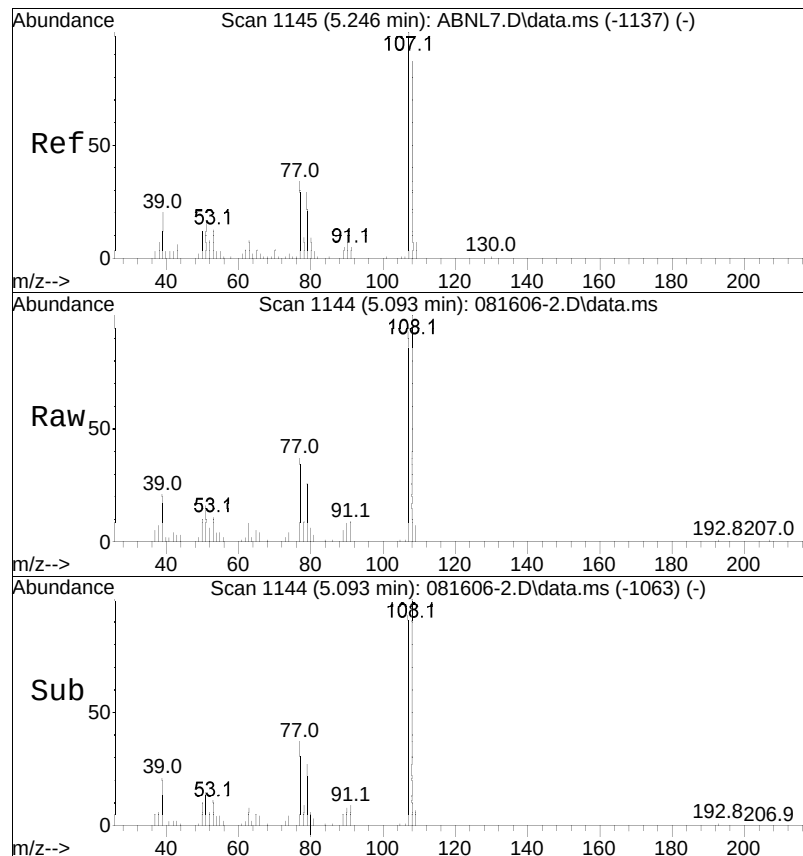




#17
 n-Nitrosodi-n-propylamine
 Concen: 1.63 ug/ml
 RT: 5.071 min Scan# 1137
 Delta R.T. 0.000 min
 Lab File: 081606-2.D
 Acq: 21 Jun 2025 9:13 am

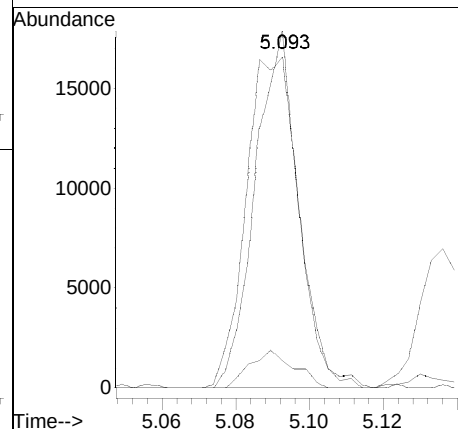
Tgt Ion	Ratio	Lower	Upper
70	100		
130	18.2	18.2	27.4#
101	6.8	7.8	11.8#

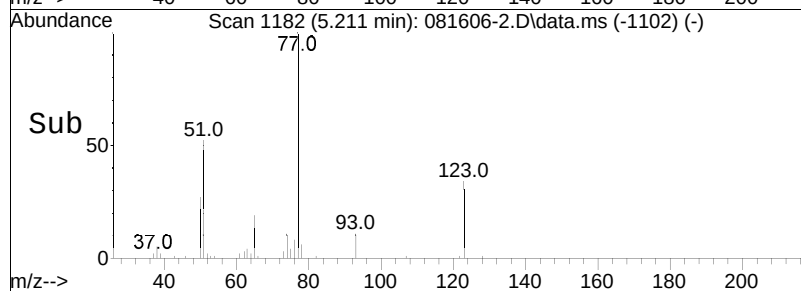
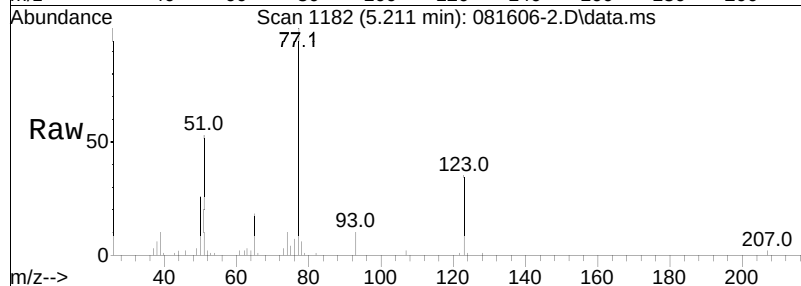
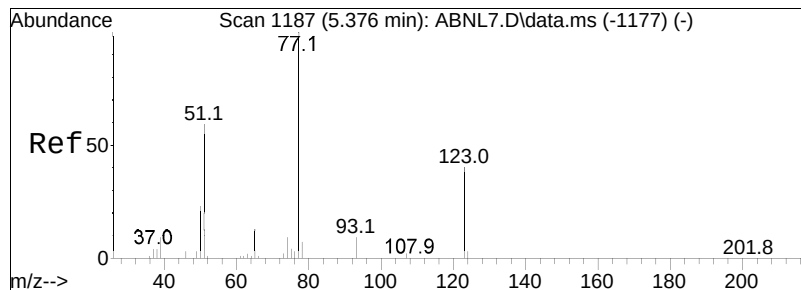




#18
 3-Methylphenol/4-Methylphenol
 Concen: 1.51 ug/ml
 RT: 5.093 min Scan# 1144
 Delta R.T. 0.003 min
 Lab File: 081606-2.D
 Acq: 21 Jun 2025 9:13 am

Tgt Ion	Ratio	Resp	Lower	Upper
108	100	14461		
107	114.6		88.6	132.8
90	11.1		8.8	13.2





#20

Nitrobenzene

Concen: 1.62 ug/ml

RT: 5.211 min Scan# 1182

Delta R.T. 0.000 min

Lab File: 081606-2.D

Acq: 21 Jun 2025 9:13 am

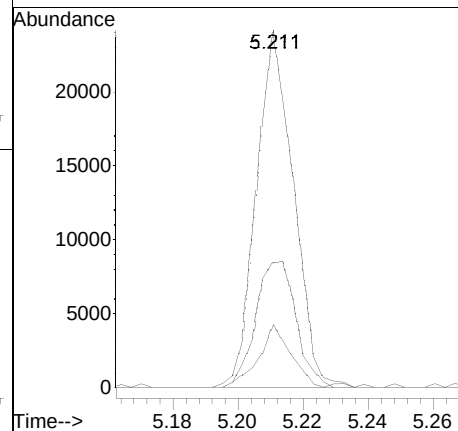
Tgt Ion: 77 Resp: 18992

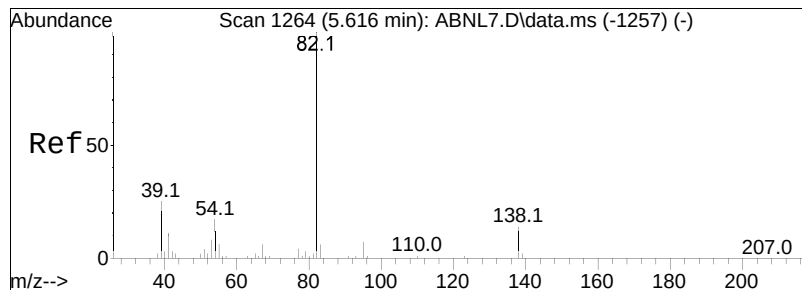
Ion Ratio Lower Upper

77 100

123 38.5 36.3 54.5

65 15.5 11.6 17.4





#21

Isophorone

Concen: 1.53 ug/ml

RT: 5.453 min Scan# 1260

Delta R.T. 0.000 min

Lab File: 081606-2.D

Acq: 21 Jun 2025 9:13 am

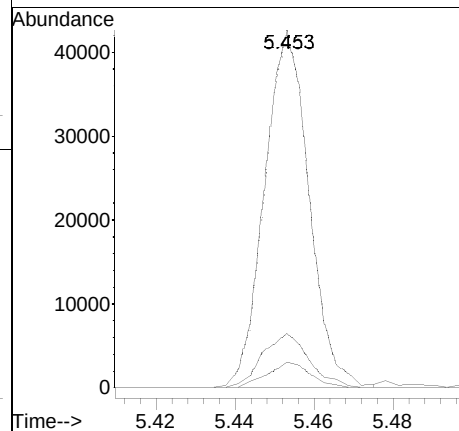
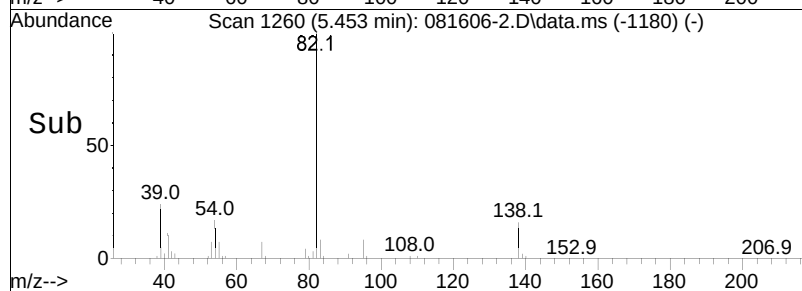
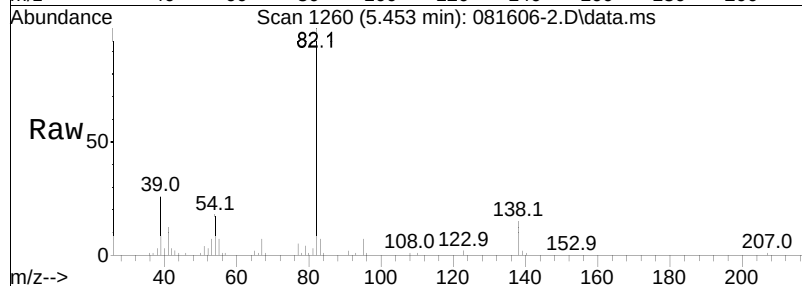
Tgt Ion: 82 Resp: 32914

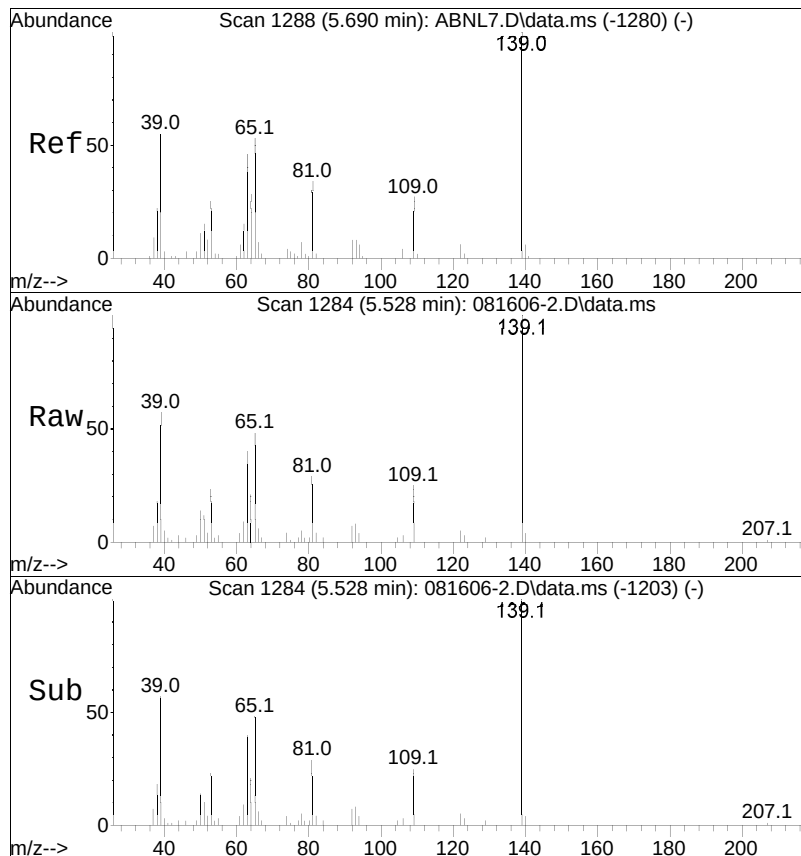
Ion Ratio Lower Upper

82 100

138 15.9 14.7 22.1

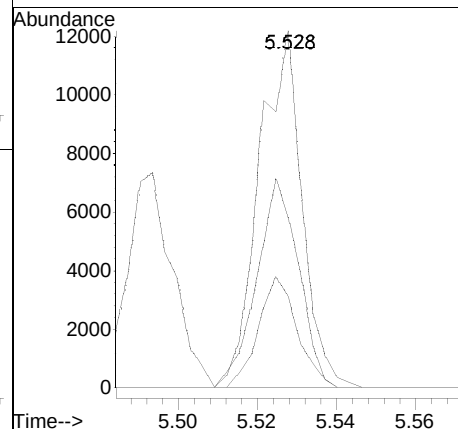
95 6.9 5.2 7.8

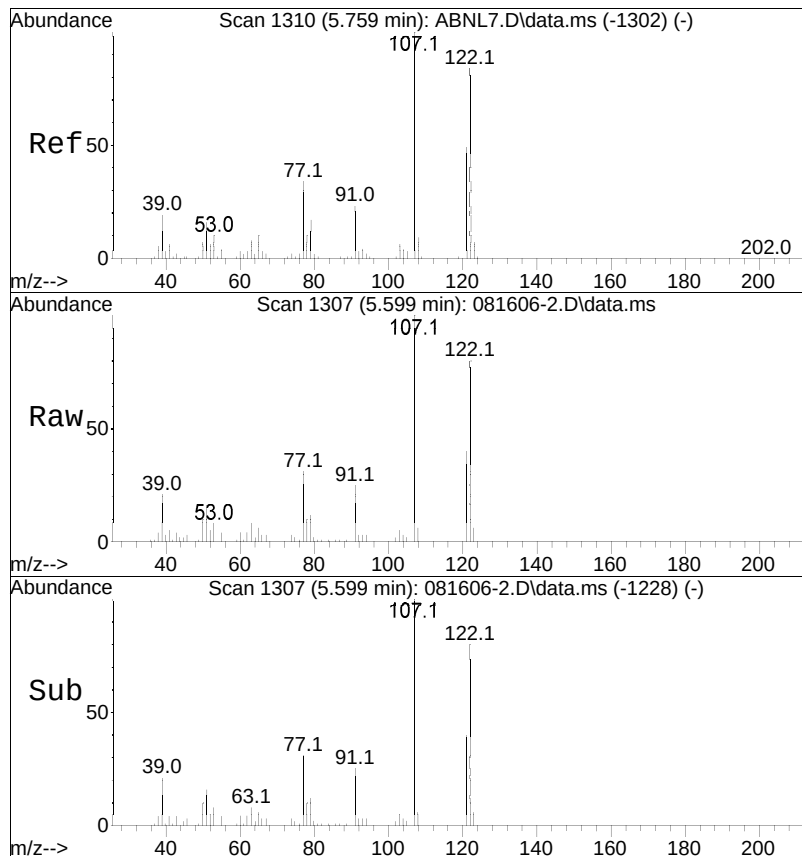




#22
 2-Nitrophenol
 Concen: 1.76 ug/ml
 RT: 5.528 min Scan# 1284
 Delta R.T. 0.003 min
 Lab File: 081606-2.D
 Acq: 21 Jun 2025 9:13 am

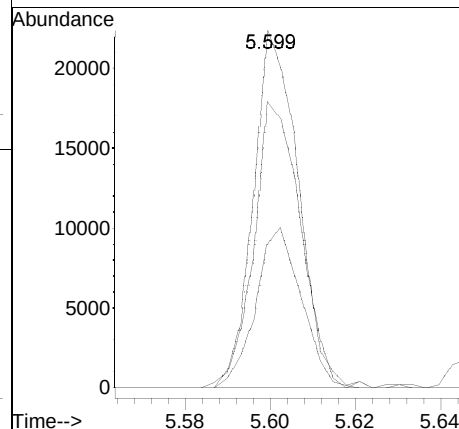
Tgt Ion	Ratio	Lower	Upper
139	100		
109	28.3	19.4	29.0
65	57.3	46.1	69.1

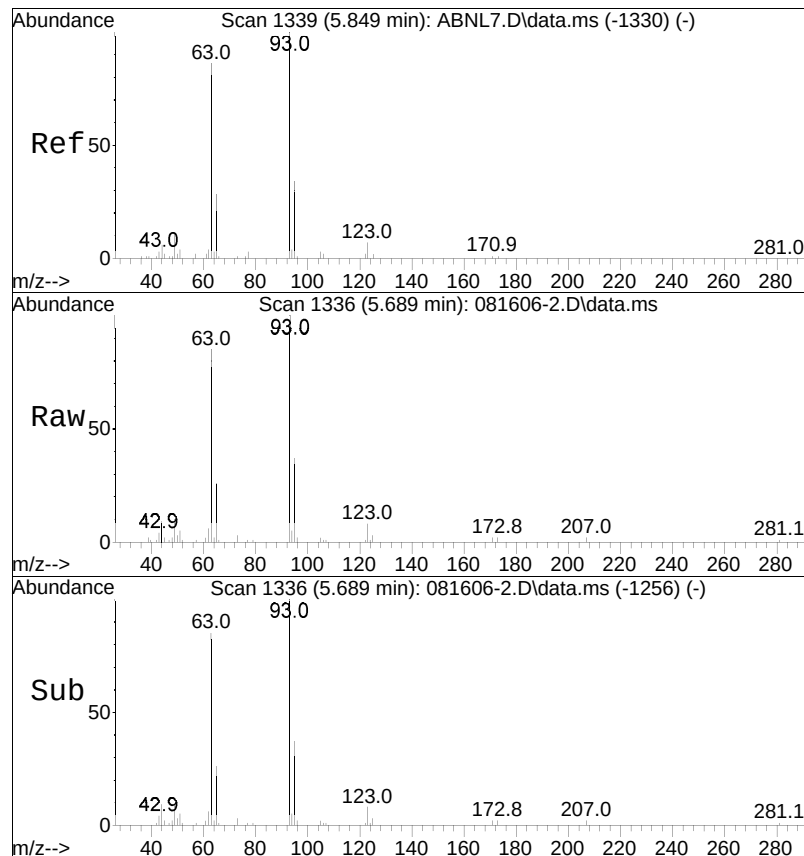




#23
 2,4-Dimethylphenol
 Concen: 1.58 ug/ml
 RT: 5.599 min Scan# 1307
 Delta R.T. -0.003 min
 Lab File: 081606-2.D
 Acq: 21 Jun 2025 9:13 am

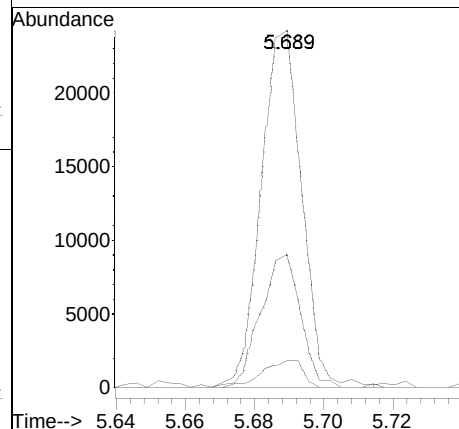
Tgt Ion	Ratio	Lower	Upper
107	100		
121	45.8	40.0	60.0
122	83.3	70.2	105.4

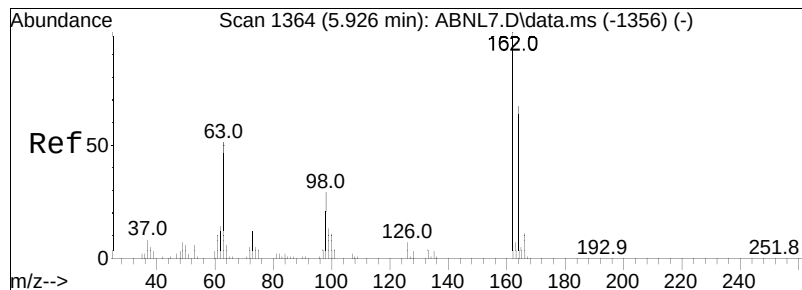




#24
 Bis(2-chloroethoxy)methane
 Concen: 1.54 ug/ml
 RT: 5.689 min Scan# 1336
 Delta R.T. 0.000 min
 Lab File: 081606-2.D
 Acq: 21 Jun 2025 9:13 am

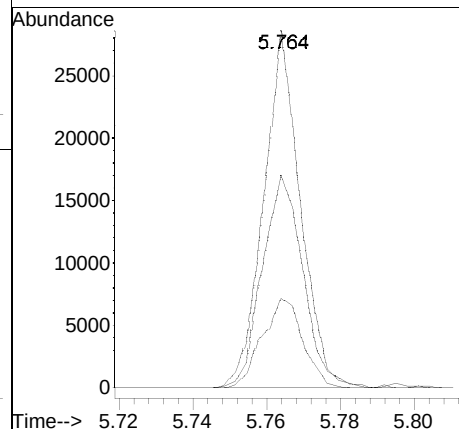
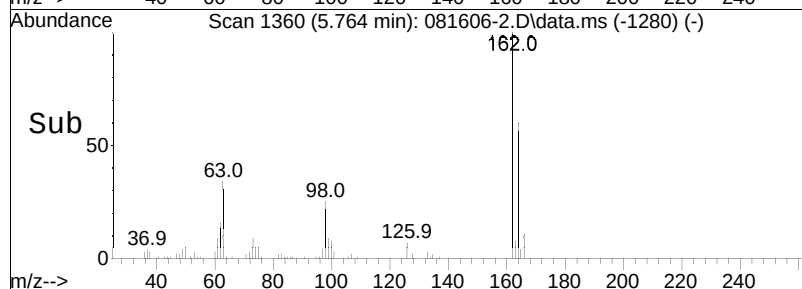
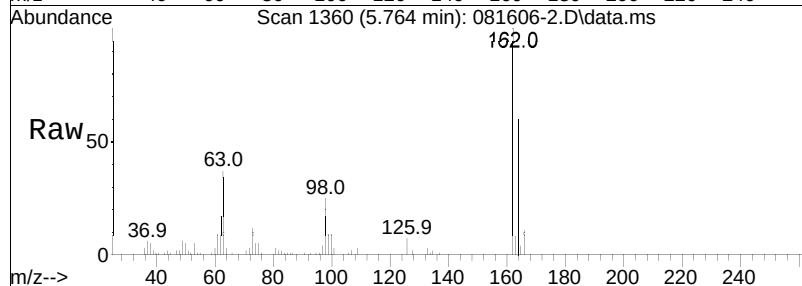
Tgt Ion:	93	Resp:	19609
Ion Ratio	Lower	Upper	
93	100		
95	36.6	25.8	38.8
123	7.8	10.1	15.1#

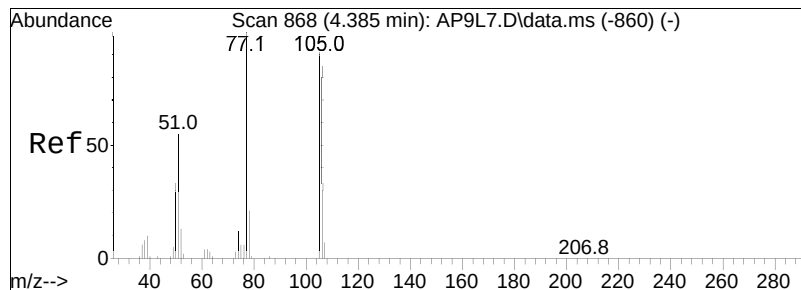




#25
 2,4-Dichlorophenol
 Concen: 1.82 ug/ml
 RT: 5.764 min Scan# 1360
 Delta R.T. 0.000 min
 Lab File: 081606-2.D
 Acq: 21 Jun 2025 9:13 am

Tgt Ion	Ratio	Resp	Lower	Upper
162	100	19521		
164	66.6		51.0	76.4
98	27.9		32.2	48.2#





#28

Benzaldehyde

Concen: 1.68 ug/ml

RT: 4.222 min Scan# 864

Delta R.T. 0.003 min

Lab File: 081606-2.D

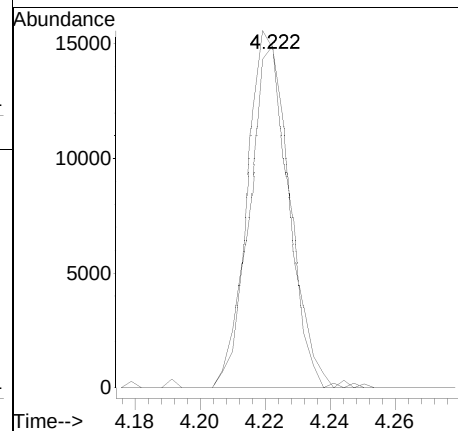
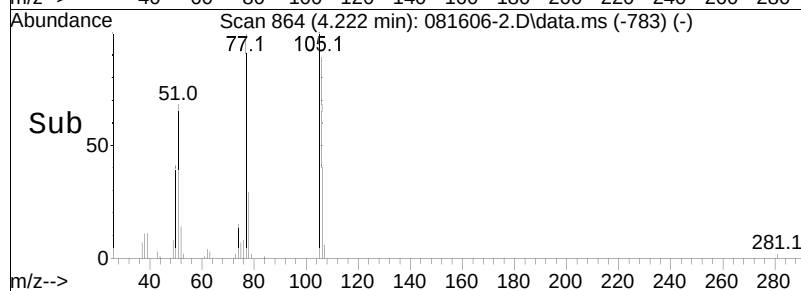
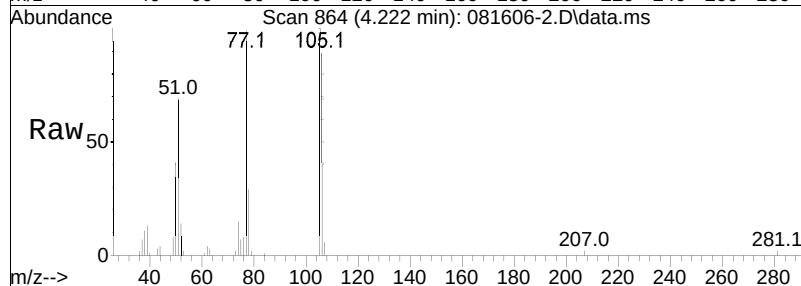
Acq: 21 Jun 2025 9:13 am

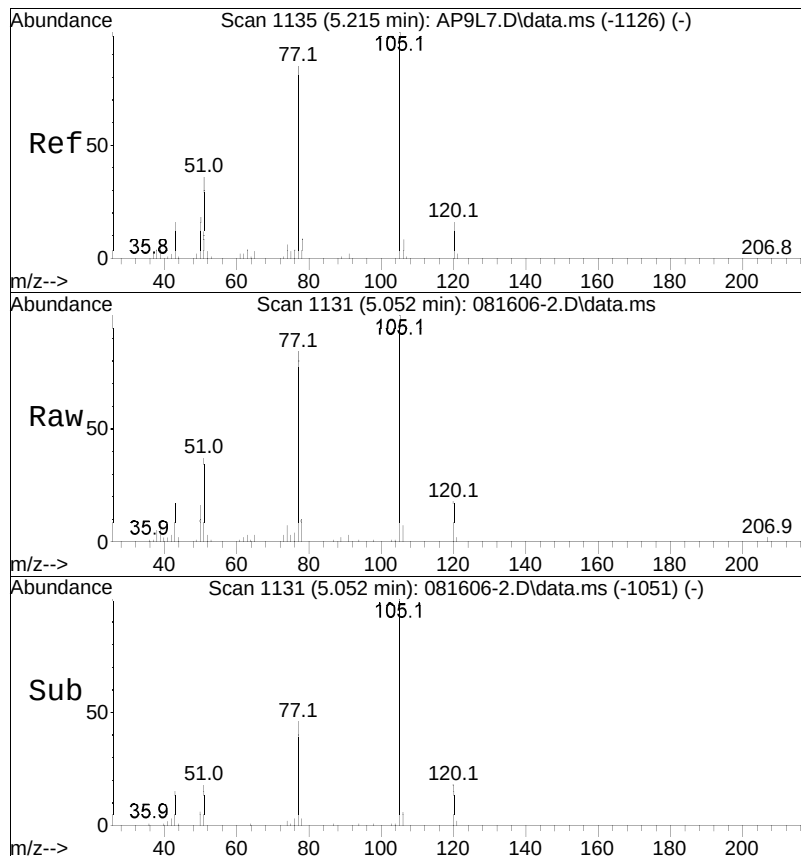
Tgt Ion:105 Resp: 12422

Ion Ratio Lower Upper

105 100

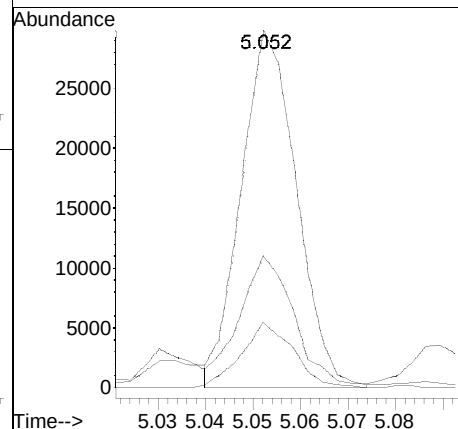
77 112.3 82.2 123.4

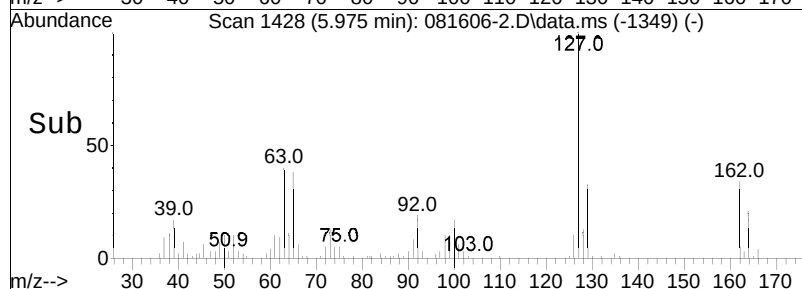
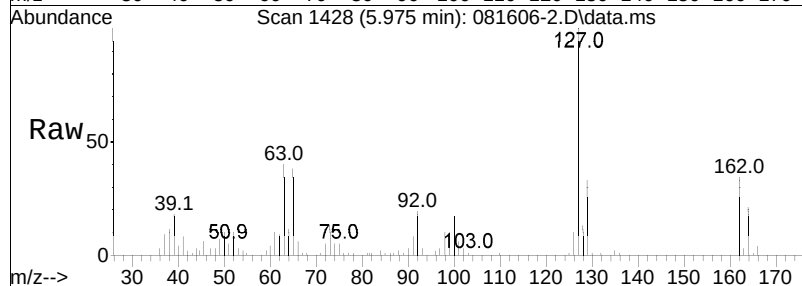
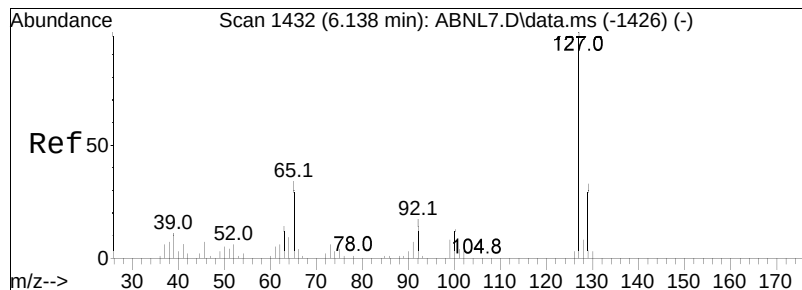




#29
 Acetophenone
 Concen: 1.83 ug/ml M6
 RT: 5.052 min Scan# 1131
 Delta R.T. 0.000 min
 Lab File: 081606-2.D
 Acq: 21 Jun 2025 9:13 am

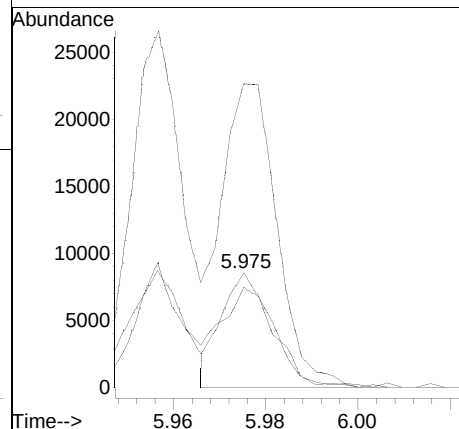
Tgt	Ion:105	Resp:	23970
Ion	Ratio	Lower	Upper
105	100		
120	17.3	20.5	30.7#
51	37.0	34.9	52.3

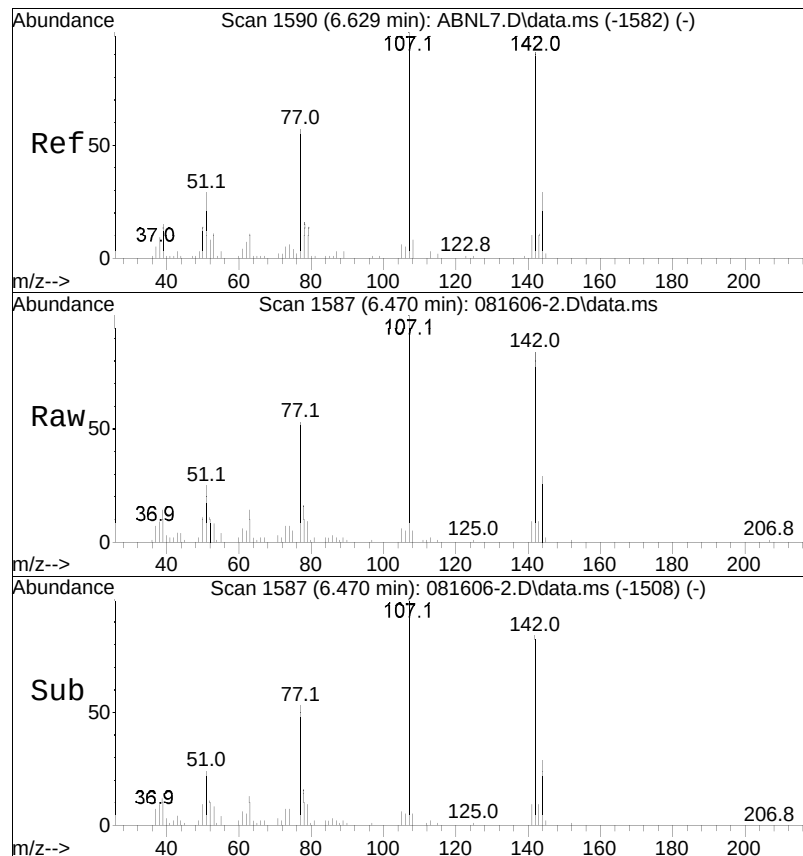




#40
 4-Chloroaniline
 Concen: 1.49 ug/ml
 RT: 5.975 min Scan# 1428
 Delta R.T. -0.003 min
 Lab File: 081606-2.D
 Acq: 21 Jun 2025 9:13 am

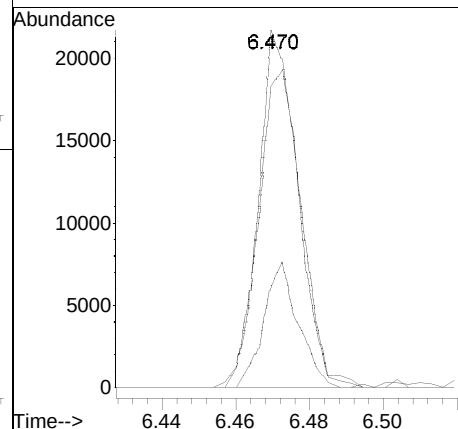
Tgt Ion:	65	Resp:	6526
Ion Ratio	Lower	Upper	
65	100		
127	287.9	237.6	356.4
129	94.3	76.3	114.5

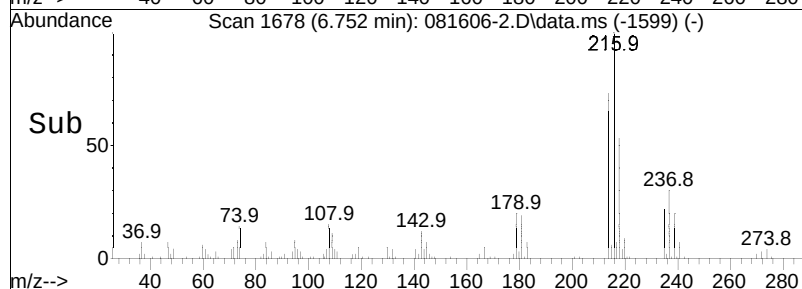
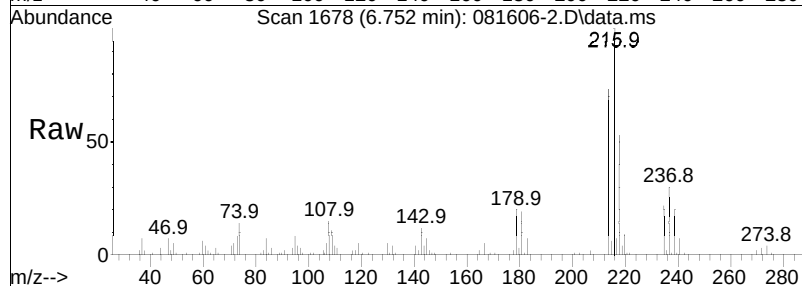
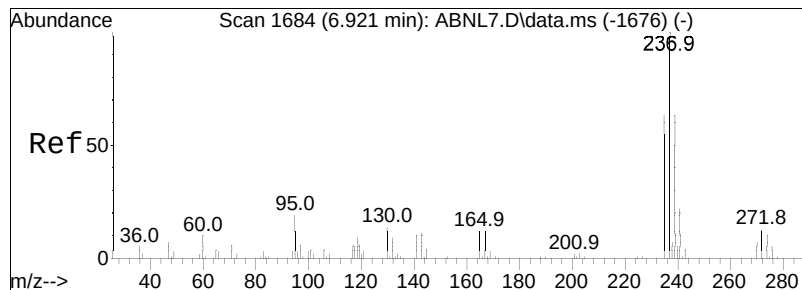




#42
 p-Chloro-m-cresol
 Concen: 1.85 ug/ml
 RT: 6.470 min Scan# 1587
 Delta R.T. -0.003 min
 Lab File: 081606-2.D
 Acq: 21 Jun 2025 9:13 am

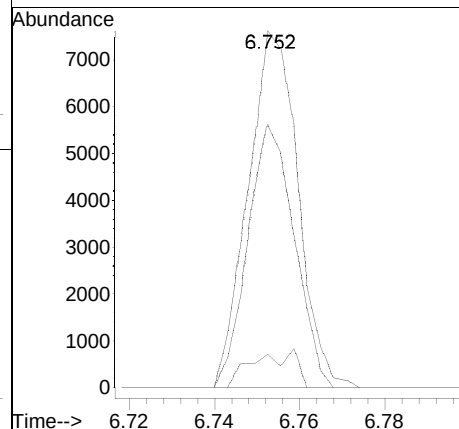
Tgt Ion:	107	Resp:	16388
Ion Ratio	Lower	Upper	
107	100		
144	30.1	20.9	31.3
142	92.1	66.1	99.1

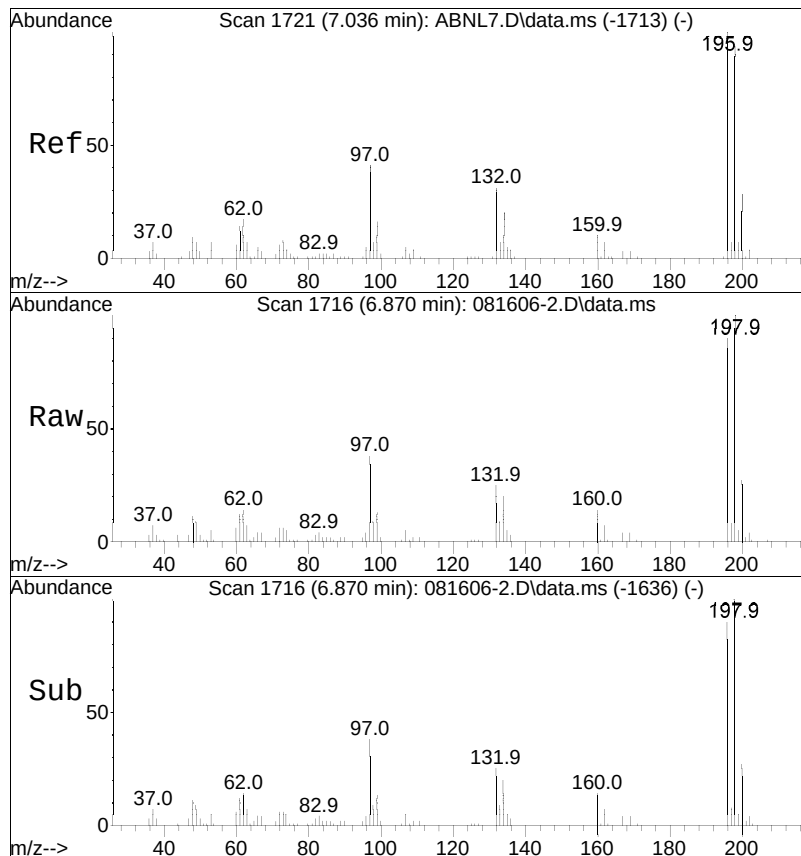




#45
 Hexachlorocyclopentadiene
 Concen: 0.58 ug/ml
 RT: 6.752 min Scan# 1678
 Delta R.T. -0.003 min
 Lab File: 081606-2.D
 Acq: 21 Jun 2025 9:13 am

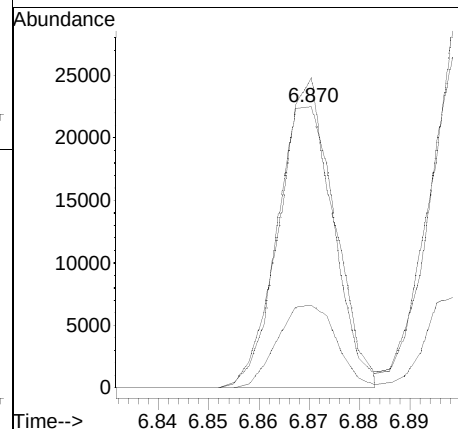
Tgt Ion	Ratio	Resp	Lower	Upper
237	100	6180		
235	68.9		49.7	74.5
272	9.3		9.8	14.6

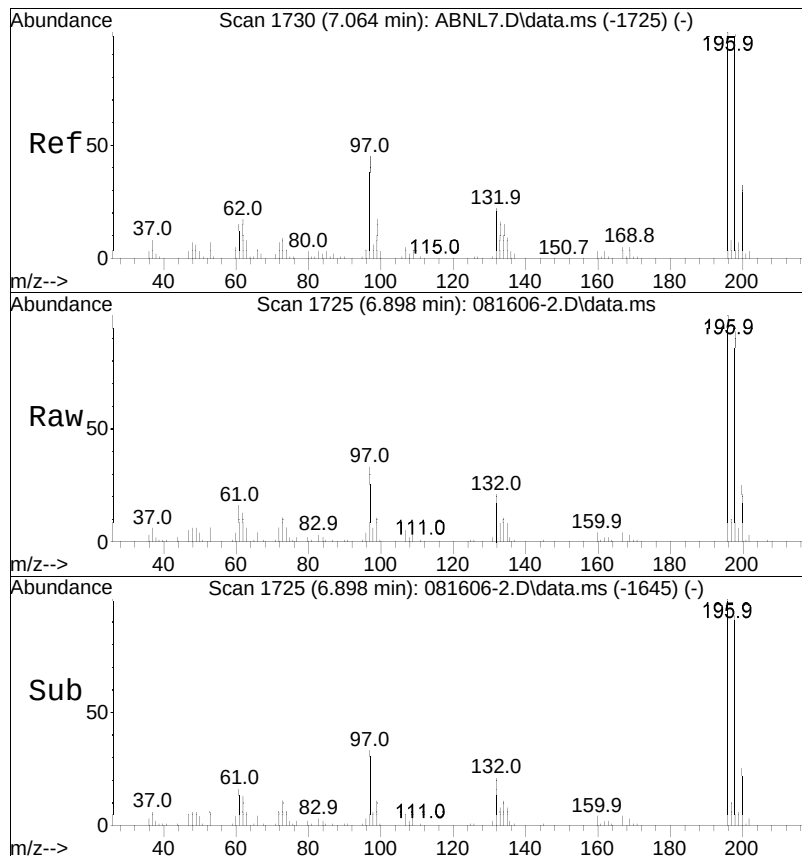




#46
 2,4,6-Trichlorophenol
 Concen: 1.95 ug/ml
 RT: 6.870 min Scan# 1716
 Delta R.T. 0.000 min
 Lab File: 081606-2.D
 Acq: 21 Jun 2025 9:13 am

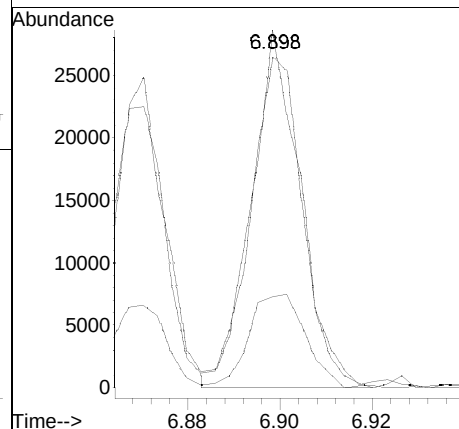
Tgt Ion:	196	Resp:	17919
Ion Ratio	Lower	Upper	
196	100		
198	103.7	77.5	116.3
200	30.0	23.8	35.6

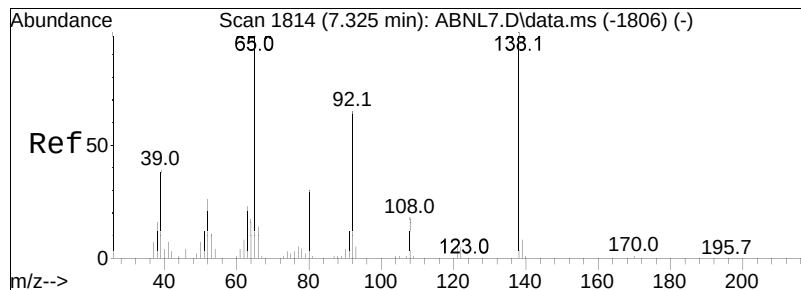




#47
 2,4,5-Trichlorophenol
 Concen: 2.04 ug/ml
 RT: 6.898 min Scan# 1725
 Delta R.T. 0.000 min
 Lab File: 081606-2.D
 Acq: 21 Jun 2025 9:13 am

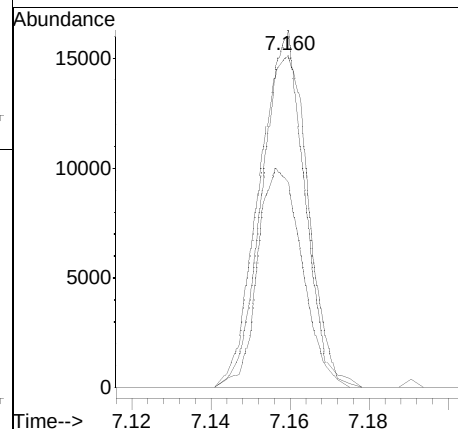
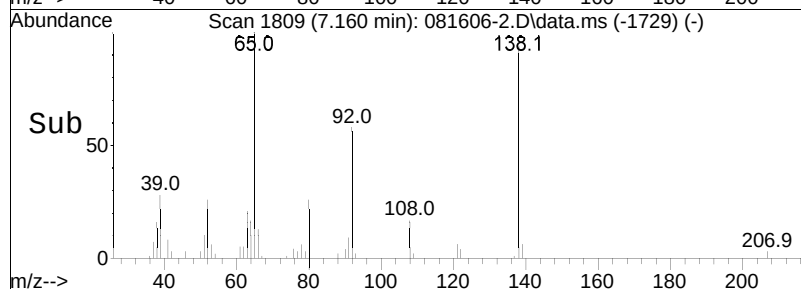
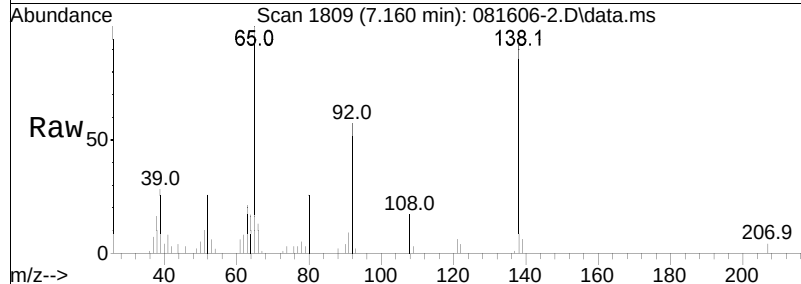
Tgt Ion:	196	Resp:	20892
Ion Ratio	Lower	Upper	
196	100		
200	30.8	25.4	38.0
198	97.1	78.0	117.0

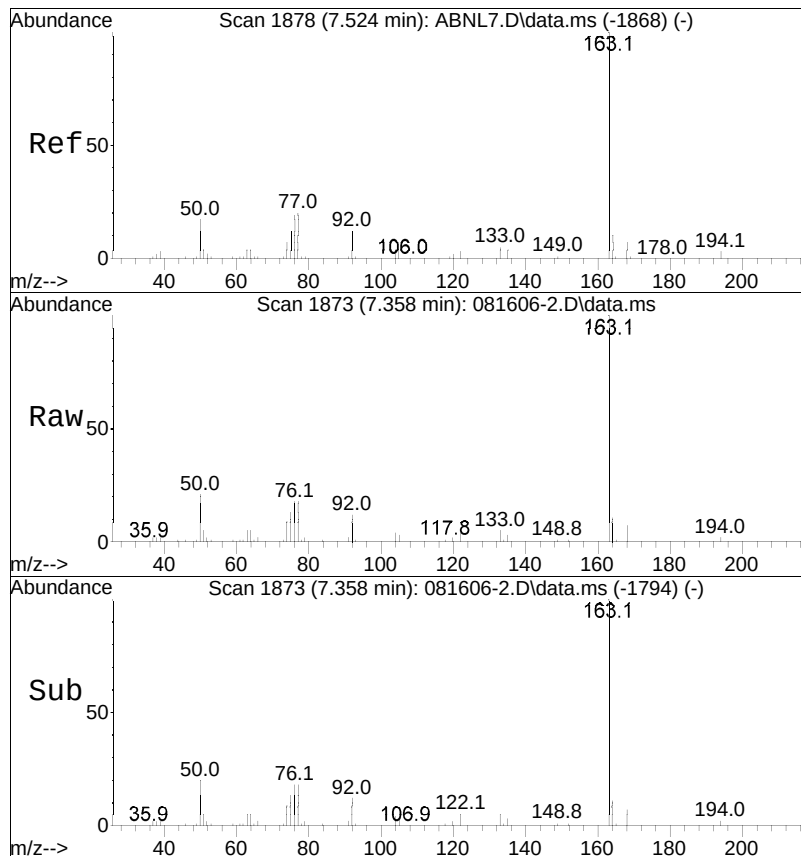




#50
 2-Nitroaniline
 Concen: 1.87 ug/ml
 RT: 7.160 min Scan# 1809
 Delta R.T. 0.000 min
 Lab File: 081606-2.D
 Acq: 21 Jun 2025 9:13 am

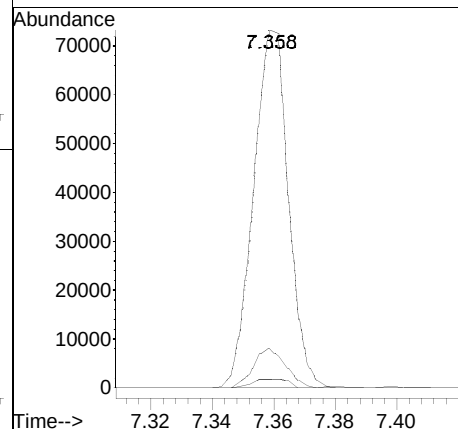
Tgt	Ion:138	Resp:	12487
Ion	Ratio	Lower	Upper
138	100		
92	62.2	53.5	80.3
65	102.9	86.3	129.5

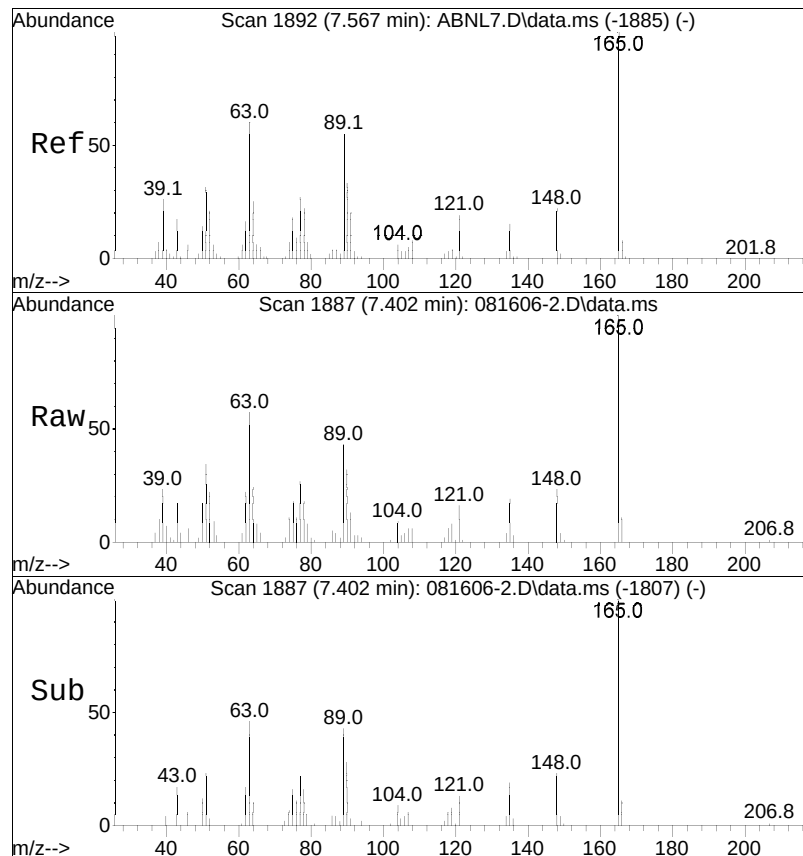




#53
 Dimethyl phthalate
 Concen: 1.82 ug/ml
 RT: 7.358 min Scan# 1873
 Delta R.T. -0.003 min
 Lab File: 081606-2.D
 Acq: 21 Jun 2025 9:13 am

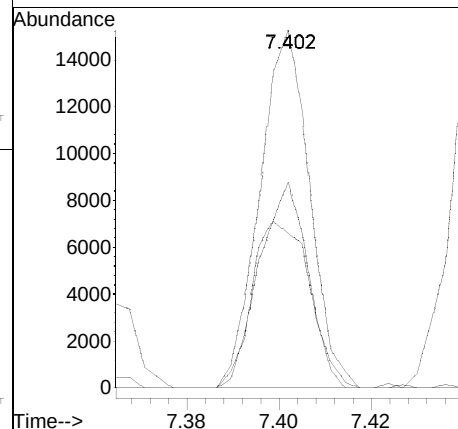
Tgt	Ion	Ratio	Resp	Lower	Upper
163	100		57307		
194	2.6	3.5		5.3#	
164	10.4	7.9		11.9	

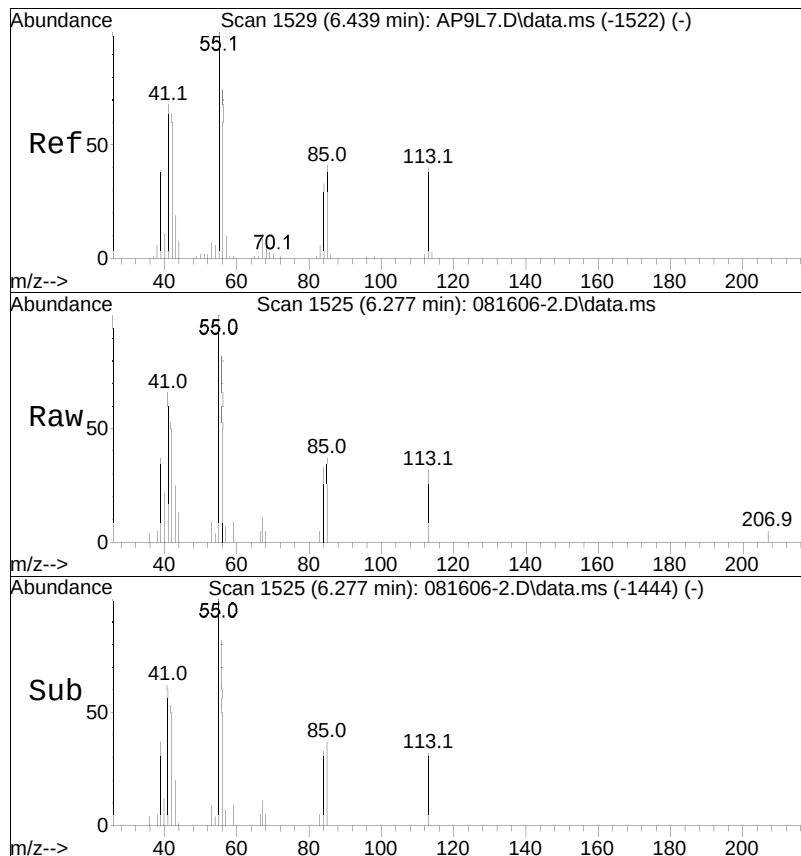




#55
 2,6-Dinitrotoluene
 Concen: 1.81 ug/ml
 RT: 7.402 min Scan# 1887
 Delta R.T. 0.000 min
 Lab File: 081606-2.D
 Acq: 21 Jun 2025 9:13 am

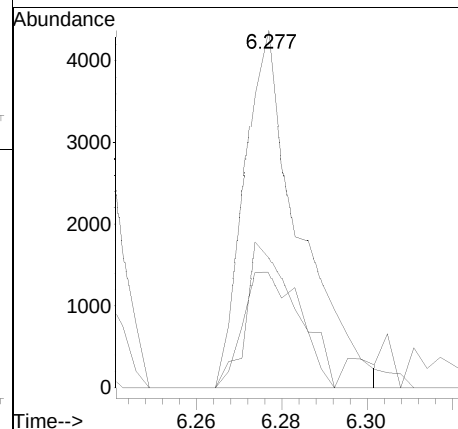
Tgt Ion	Ratio	Lower	Upper
165	100		
89	52.5	54.2	81.2#
63	57.4	64.2	96.2#

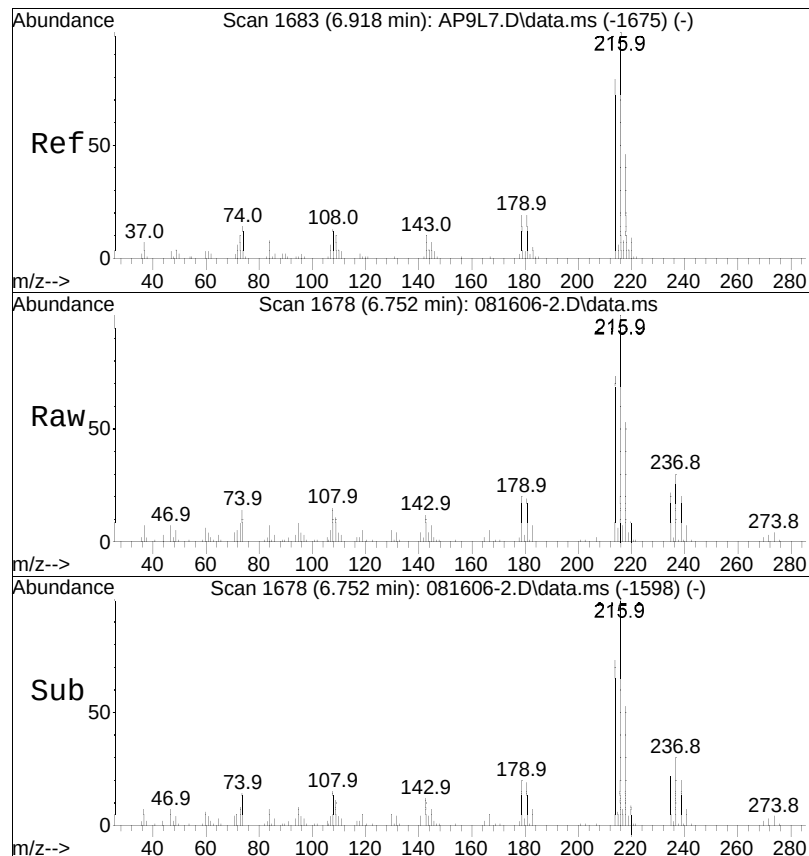




#62
 Caprolactam
 Concen: 0.74 ug/ml
 RT: 6.277 min Scan# 1525
 Delta R.T. 0.003 min
 Lab File: 081606-2.D
 Acq: 21 Jun 2025 9:13 am

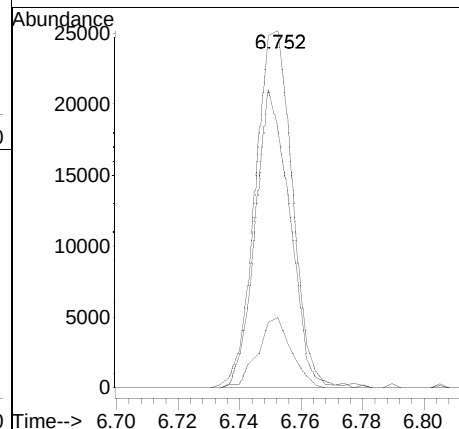
Tgt Ion:	55	Resp:	3925
Ion Ratio	Lower	Upper	
55	100		
85	34.6	19.8	29.6#
113	35.4	29.6	44.4

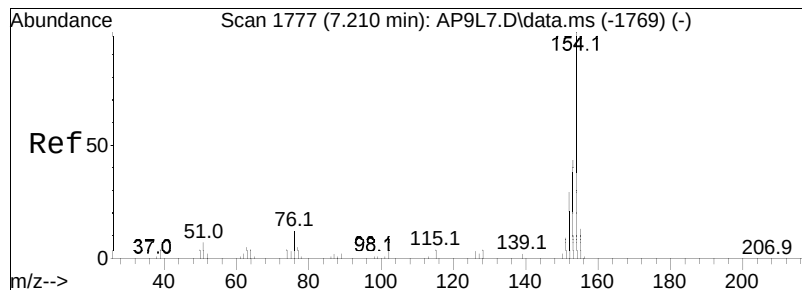




#63
 1,2,4,5-Tetrachlorobenzene
 Concen: 1.52 ug/ml
 RT: 6.752 min Scan# 1678
 Delta R.T. 0.000 min
 Lab File: 081606-2.D
 Acq: 21 Jun 2025 9:13 am

Tgt Ion:	216	Resp:	21040
Ion Ratio	Lower	Upper	
216	100		
214	78.3	63.7	95.5
179	17.9	19.0	28.6#





#64

Biphenyl

Concen: 1.53 ug/ml

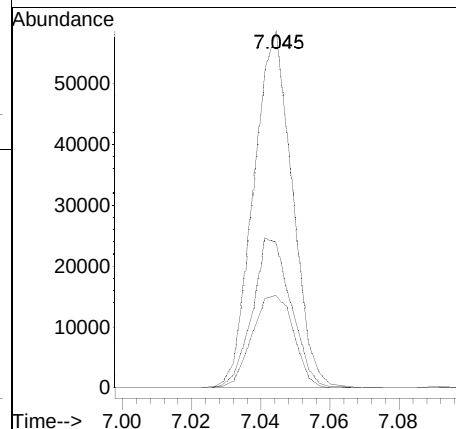
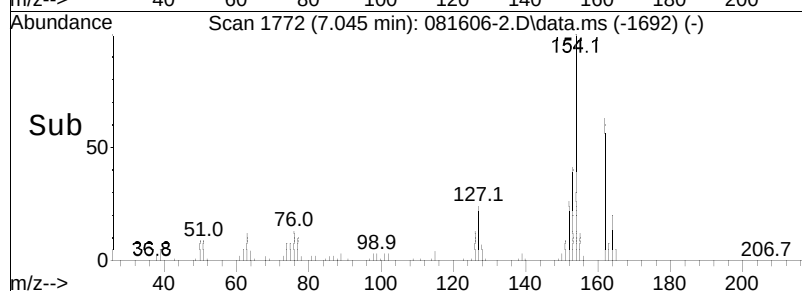
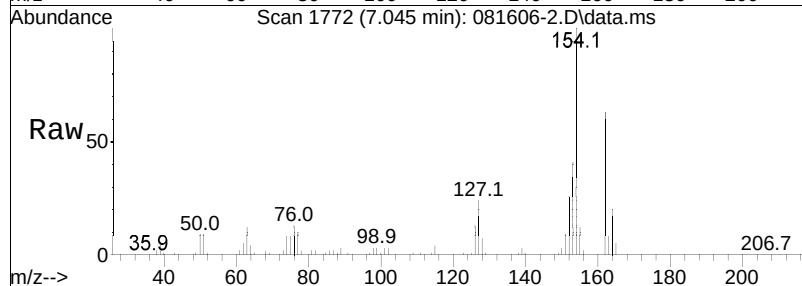
RT: 7.045 min Scan# 1772

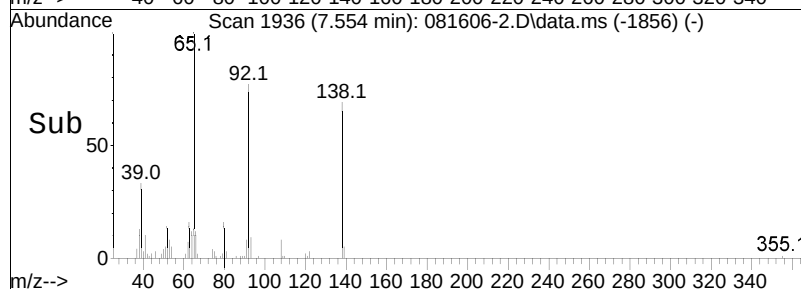
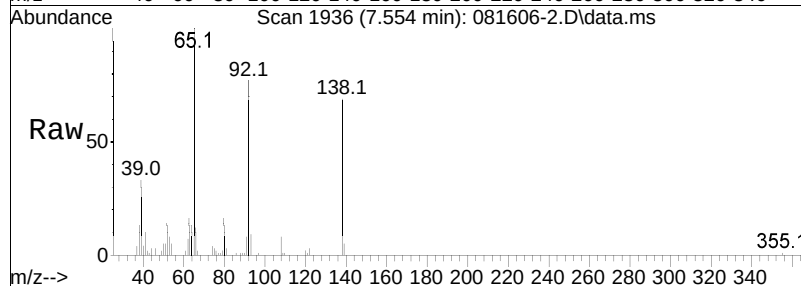
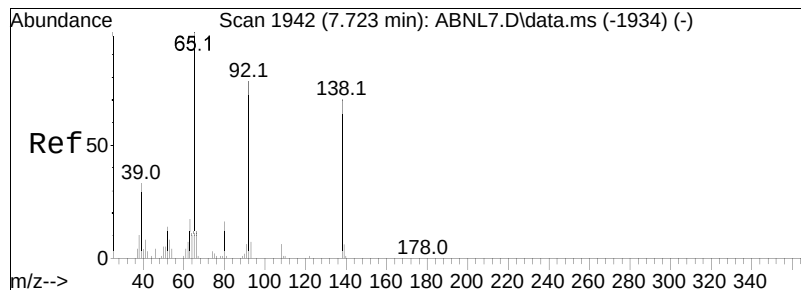
Delta R.T. 0.000 min

Lab File: 081606-2.D

Acq: 21 Jun 2025 9:13 am

Tgt	Ion:154	Resp:	45365
Ion	Ratio	Lower	Upper
154	100		
153	42.1	32.3	48.5
152	28.1	22.5	33.7





#66

3-Nitroaniline

Concen: 1.70 ug/ml

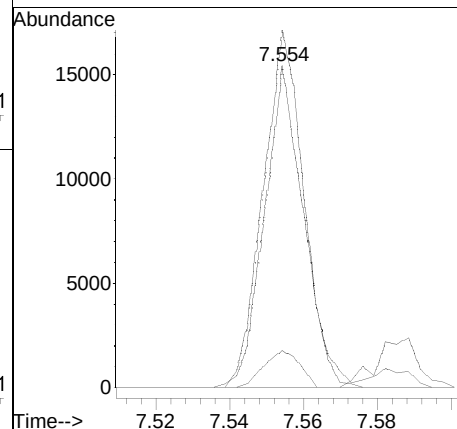
RT: 7.554 min Scan# 1936

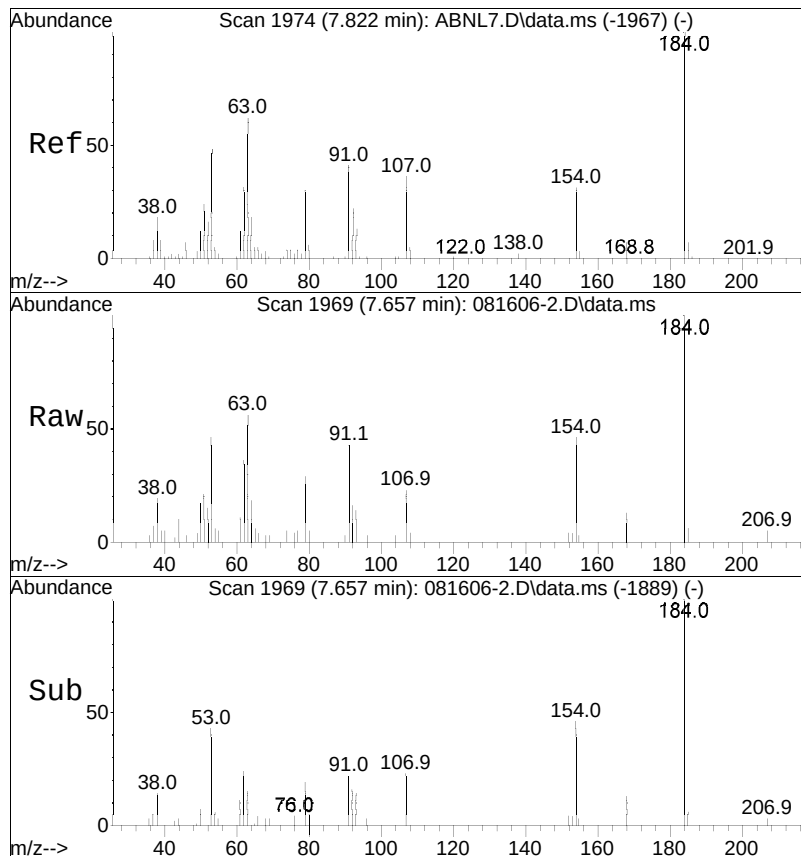
Delta R.T. 0.000 min

Lab File: 081606-2.D

Acq: 21 Jun 2025 9:13 am

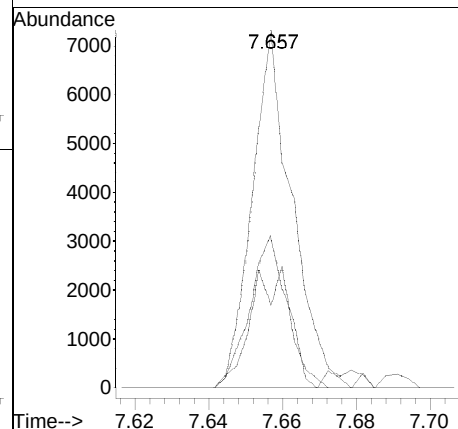
Tgt	Ion:138	Resp:	11168
Ion	Ratio	Lower	Upper
138	100		
92	117.3	93.4	140.2
108	10.8	9.5	14.3

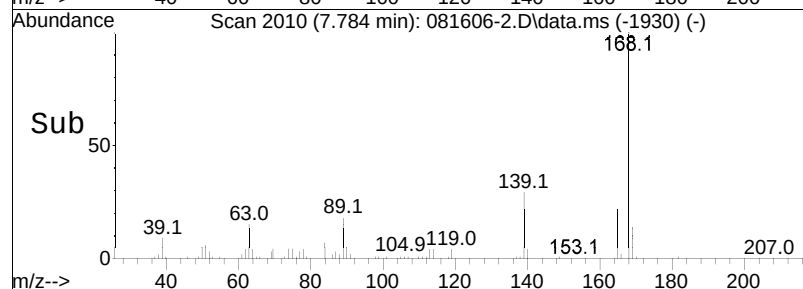
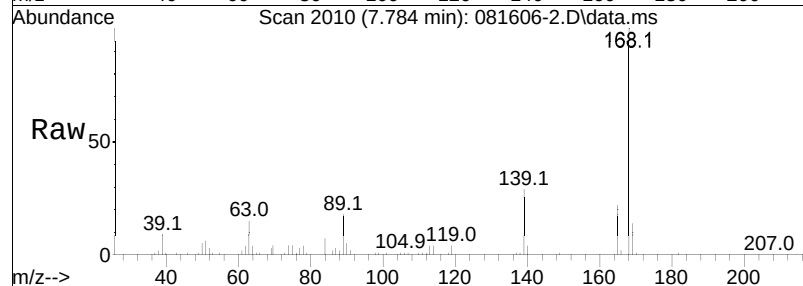
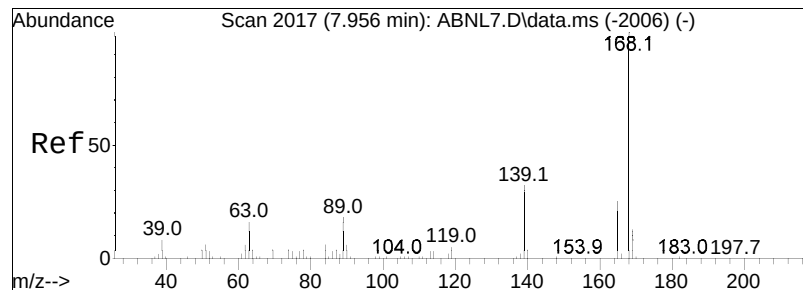




#68
 2,4-Dinitrophenol
 Concen: 1.40 ug/ml
 RT: 7.657 min Scan# 1969
 Delta R.T. 0.000 min
 Lab File: 081606-2.D
 Acq: 21 Jun 2025 9:13 am

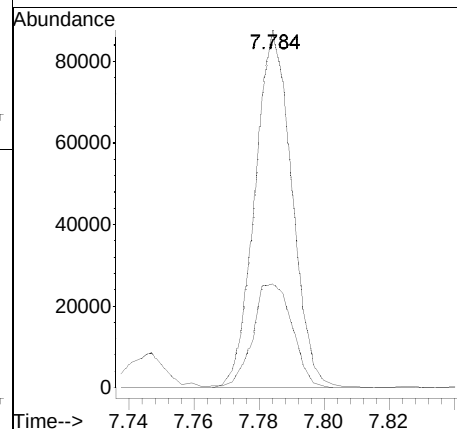
Tgt Ion:	184	Resp:	5552
Ion Ratio	Lower	Upper	
184	100		
107	33.4	37.7	56.5#
91	38.8	46.3	69.5#

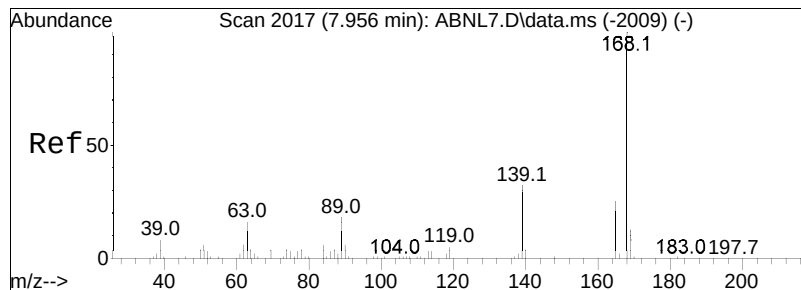




#69
 Dibenzofuran
 Concen: 1.51 ug/ml
 RT: 7.784 min Scan# 2010
 Delta R.T. 0.000 min
 Lab File: 081606-2.D
 Acq: 21 Jun 2025 9:13 am

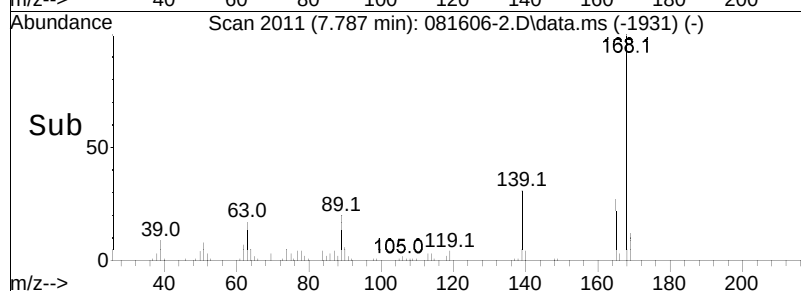
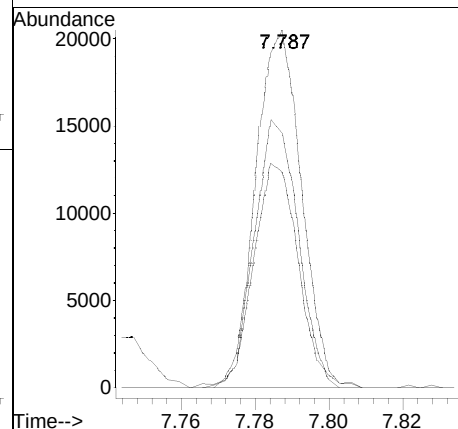
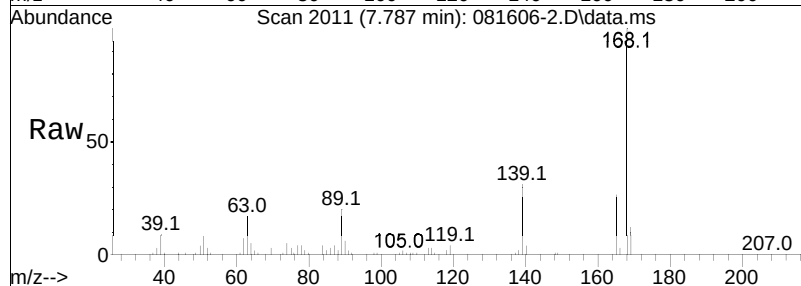
Tgt Ion	Ratio	Lower	Upper
168	100		
139	31.2	31.4	47.2#

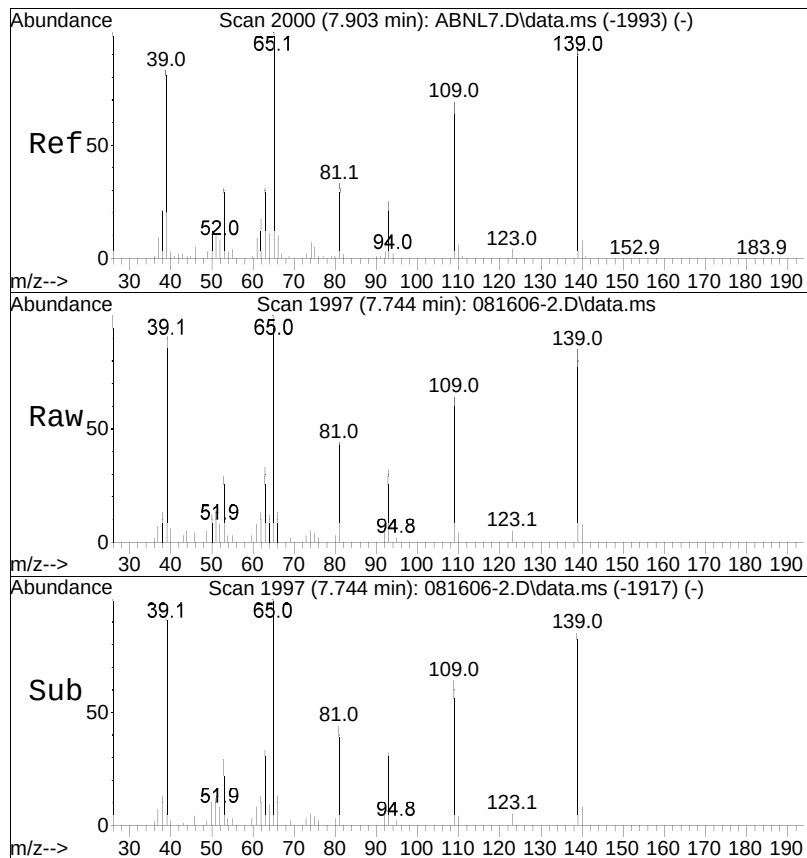




#70
 2,4-Dinitrotoluene
 Concen: 1.82 ug/ml
 RT: 7.787 min Scan# 2011
 Delta R.T. 0.000 min
 Lab File: 081606-2.D
 Acq: 21 Jun 2025 9:13 am

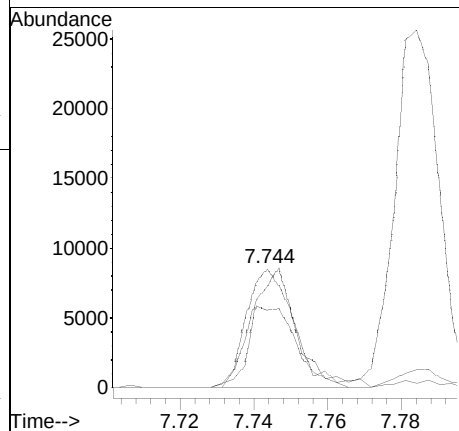
Tgt Ion	Ratio	Lower	Upper
165	100		
89	71.8	72.0	108.0#
63	61.8	52.7	79.1

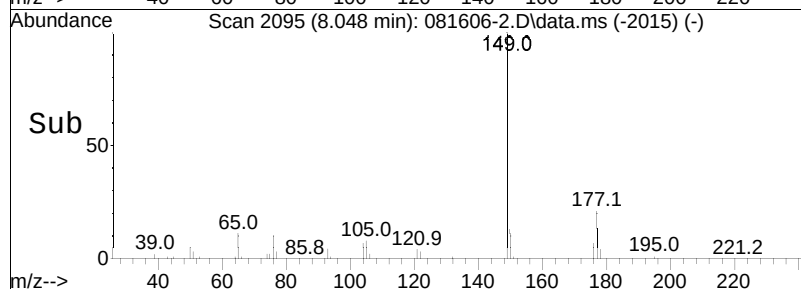
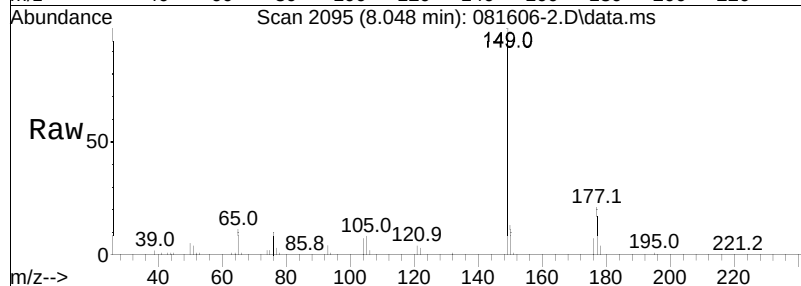
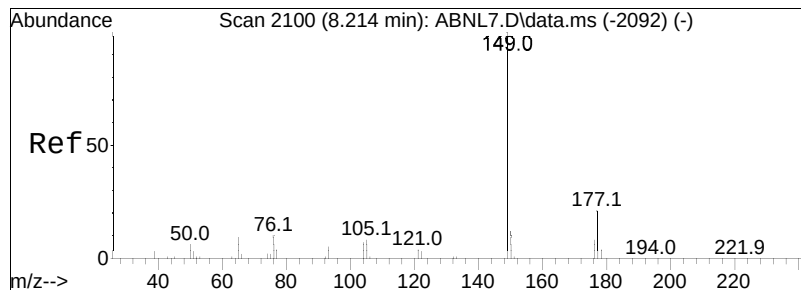




#71
 4-Nitrophenol
 Concen: 1.31 ug/ml
 RT: 7.744 min Scan# 1997
 Delta R.T. 0.000 min
 Lab File: 081606-2.D
 Acq: 21 Jun 2025 9:13 am

Tgt Ion:	65	Resp:	7804
Ion Ratio	Lower	Upper	
65	100		
109	66.9	47.4	71.2
139	89.8	76.6	115.0





#74

Diethyl phthalate

Concen: 1.68 ug/ml

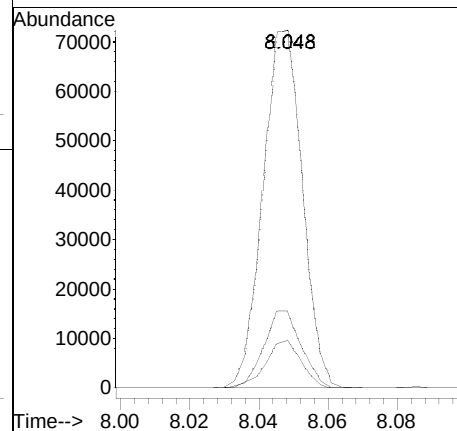
RT: 8.048 min Scan# 2095

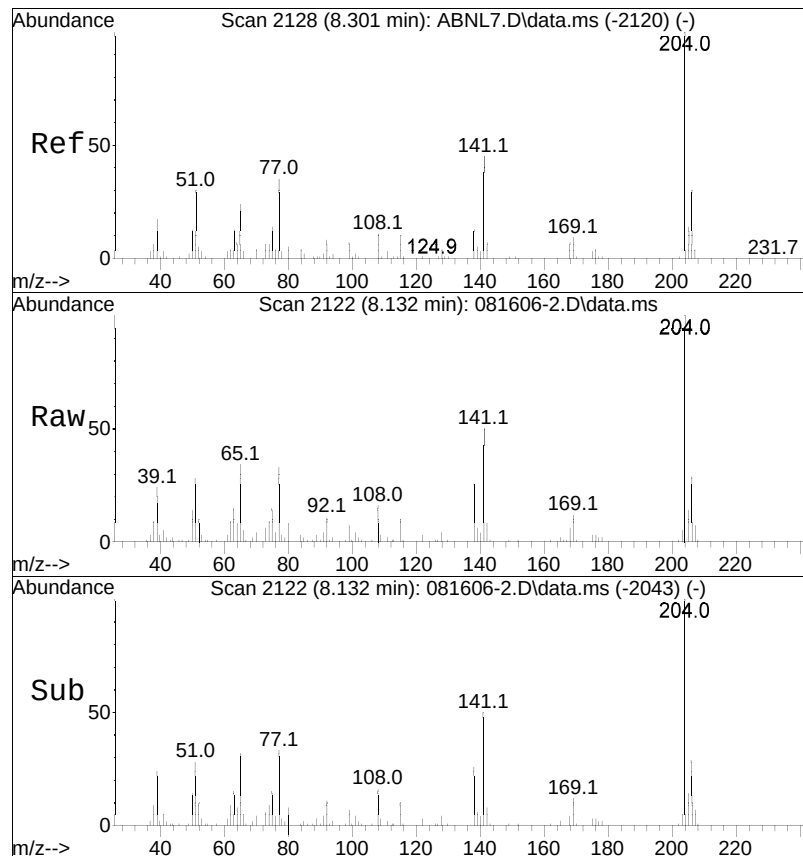
Delta R.T. 0.000 min

Lab File: 081606-2.D

Acq: 21 Jun 2025 9:13 am

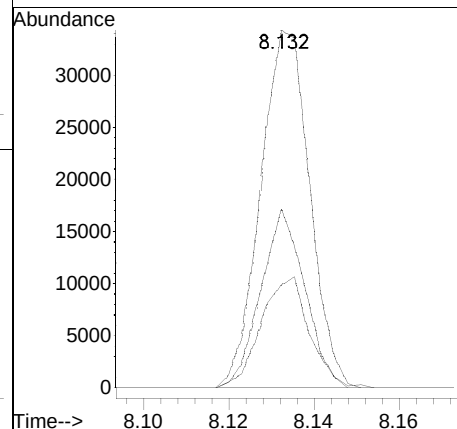
Tgt Ion:	149	Resp:	56773
Ion Ratio	Lower	Upper	
149	100		
177	20.8	16.1	24.1
150	12.2	9.4	14.2

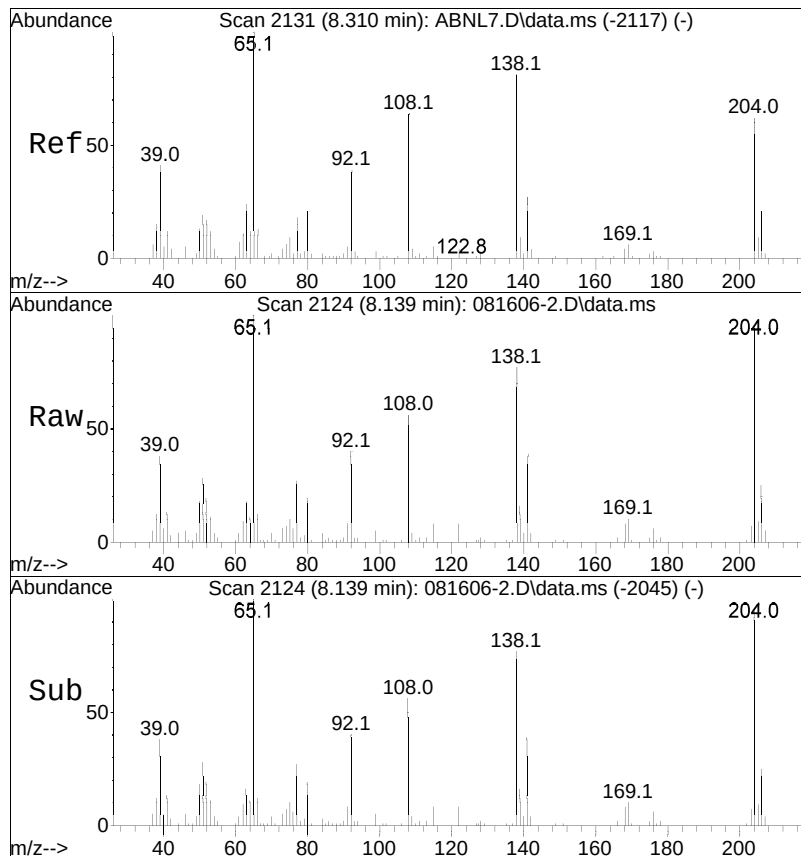




#76
 4-Chlorophenyl phenyl ether
 Concen: 1.50 ug/ml
 RT: 8.132 min Scan# 2122
 Delta R.T. -0.003 min
 Lab File: 081606-2.D
 Acq: 21 Jun 2025 9:13 am

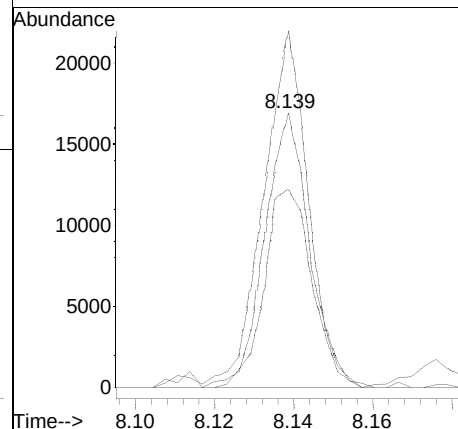
Tgt Ion:	204	Resp:	27305
Ion Ratio	Lower	Upper	
204	100		
206	30.3	25.8	38.6
141	45.1	53.6	80.4#

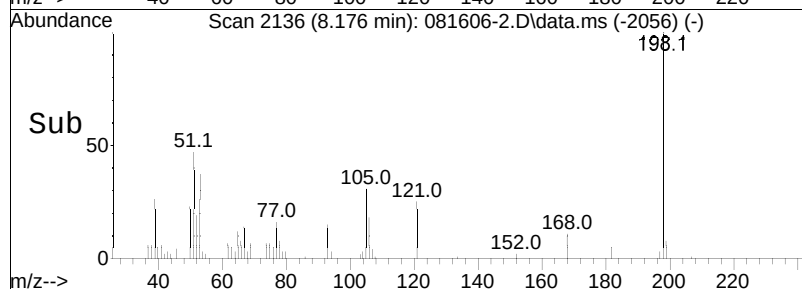
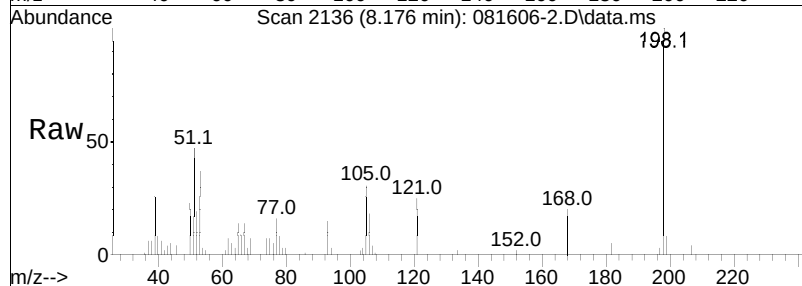
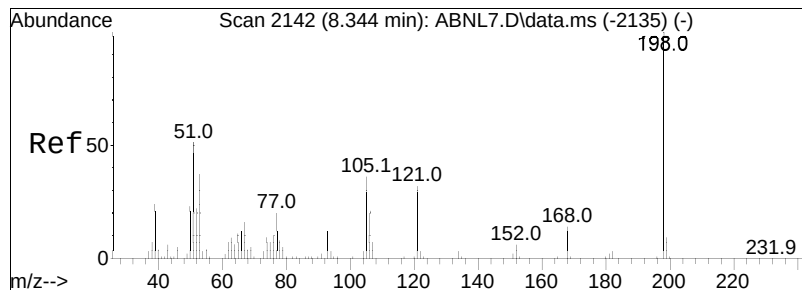




#77
 4-Nitroaniline
 Concen: 1.92 ug/ml
 RT: 8.139 min Scan# 2124
 Delta R.T. -0.003 min
 Lab File: 081606-2.D
 Acq: 21 Jun 2025 9:13 am

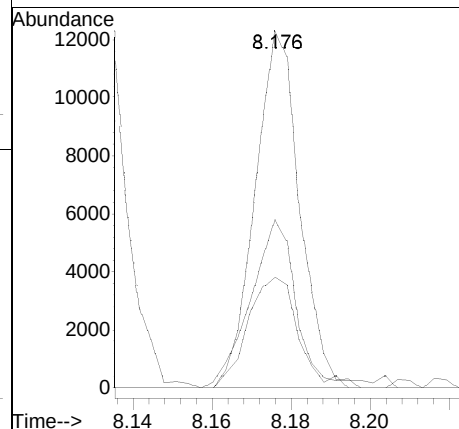
Tgt Ion	Ratio	Lower	Upper
138	100		
108	76.9	52.1	78.1
65	129.3	115.0	172.6

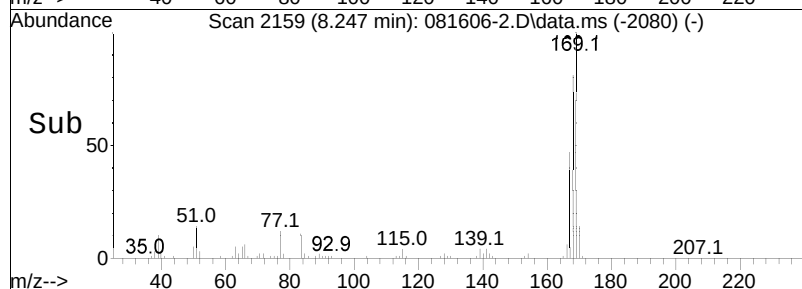
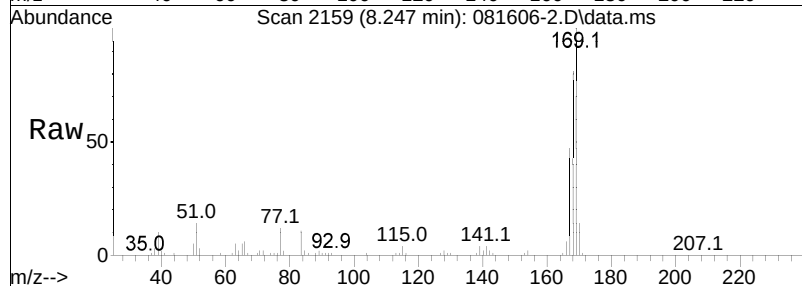
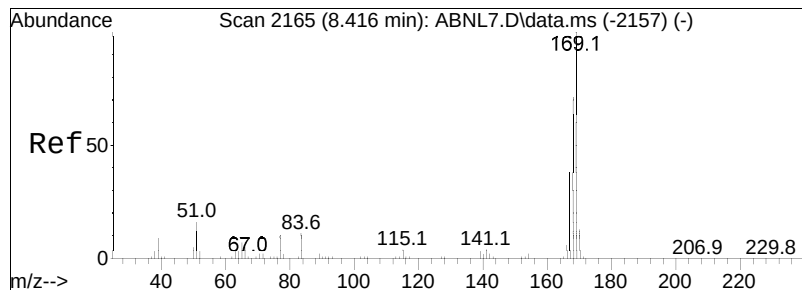




#78
 4,6-Dinitro-o-cresol
 Concen: 1.61 ug/ml
 RT: 8.176 min Scan# 2136
 Delta R.T. 0.000 min
 Lab File: 081606-2.D
 Acq: 21 Jun 2025 9:13 am

Tgt Ion	Ratio	Lower	Upper
198	100		
51	48.0	76.0	114.0#
105	34.6	45.6	68.4#





#79

NDPA/DPA

Concen: 1.62 ug/ml

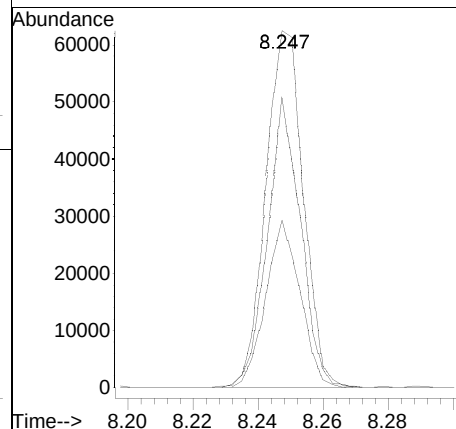
RT: 8.247 min Scan# 2159

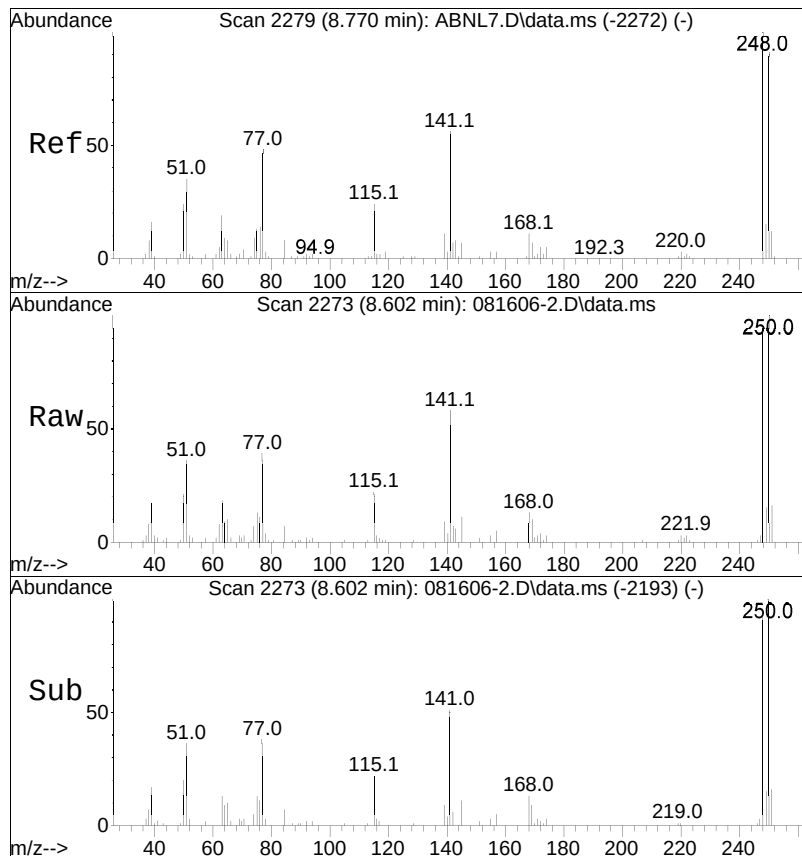
Delta R.T. -0.003 min

Lab File: 081606-2.D

Acq: 21 Jun 2025 9:13 am

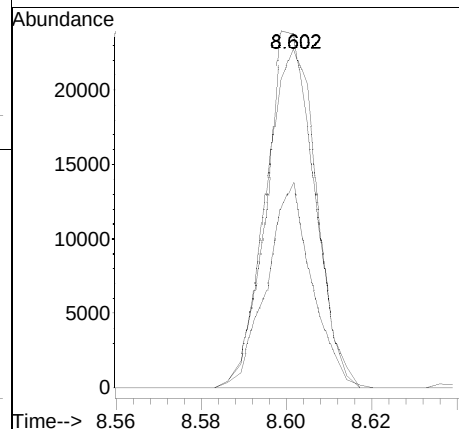
Tgt	Ion:169	Resp:	49998
Ion	Ratio	Lower	Upper
169	100		
168	71.7	54.0	81.0
167	43.1	28.6	42.8#

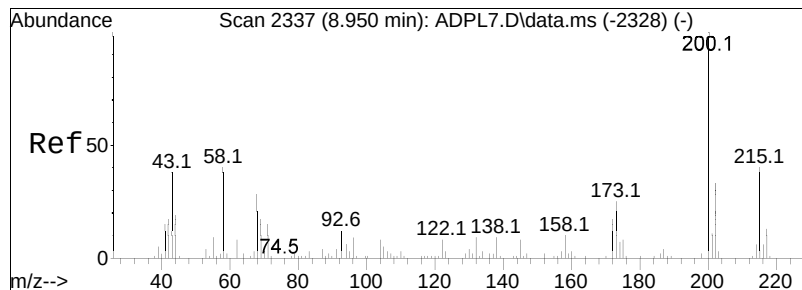




#82
 4-Bromophenyl phenyl ether
 Concen: 1.63 ug/ml
 RT: 8.602 min Scan# 2273
 Delta R.T. 0.000 min
 Lab File: 081606-2.D
 Acq: 21 Jun 2025 9:13 am

Tgt Ion:	248	Resp:	18854
Ion Ratio	Lower	Upper	
248	100		
141	53.9	76.6	114.8#
250	98.6	77.3	115.9





#89

Atrazine

Concen: 1.84 ug/ml

RT: 8.785 min Scan# 2332

Delta R.T. -0.000 min

Lab File: 081606-2.D

Acq: 21 Jun 2025 9:13 am

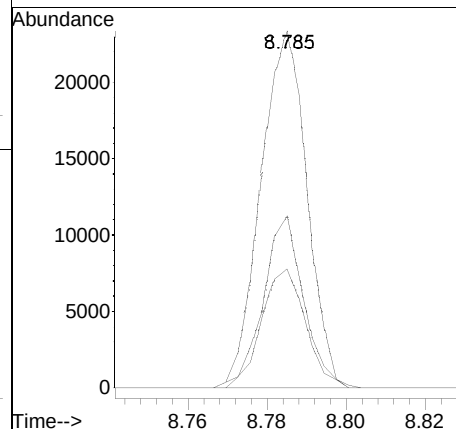
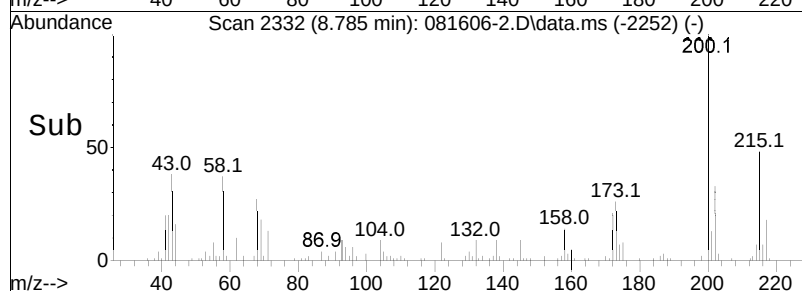
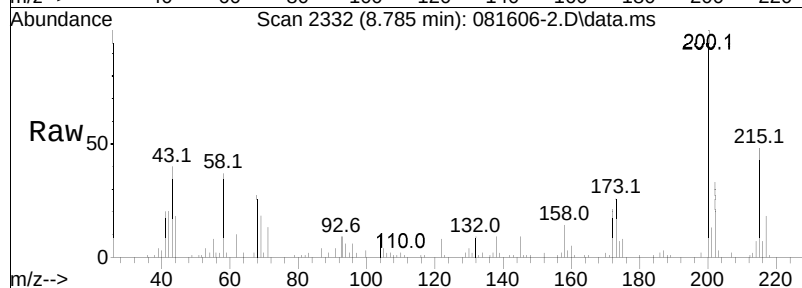
Tgt Ion: 200 Resp: 18807

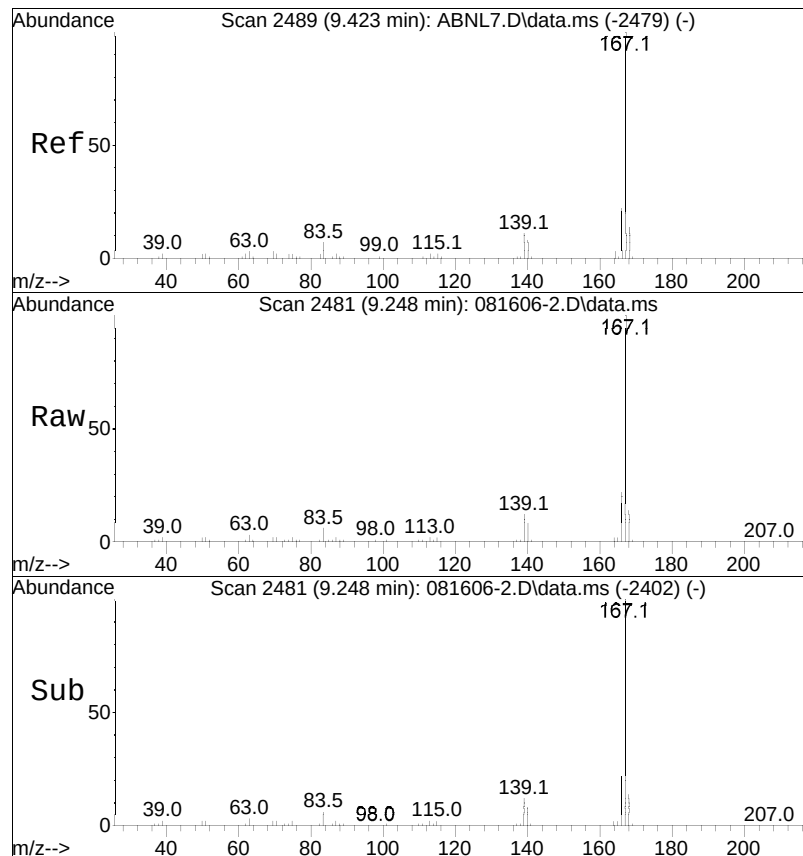
Ion Ratio Lower Upper

200 100

202 32.2 25.8 38.6

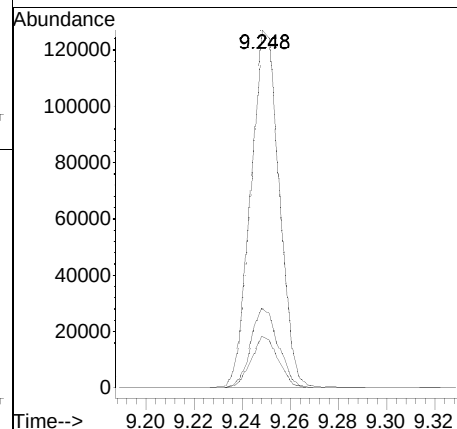
215 41.7 40.2 60.4

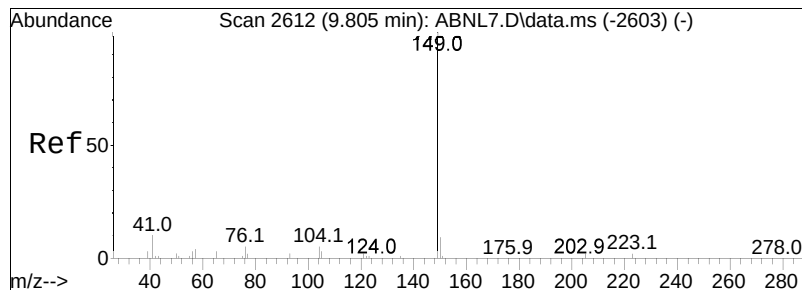




#93
 Carbazole
 Concen: 1.73 ug/ml
 RT: 9.248 min Scan# 2481
 Delta R.T. -0.003 min
 Lab File: 081606-2.D
 Acq: 21 Jun 2025 9:13 am

Tgt Ion:	167	Resp:	103893
Ion Ratio	Lower	Upper	
167	100		
168	13.8	10.6	15.8
166	21.7	17.4	26.0





#94

Di-n-butylphthalate

Concen: 1.60 ug/ml

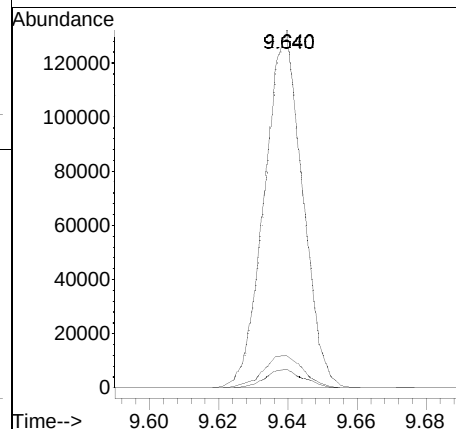
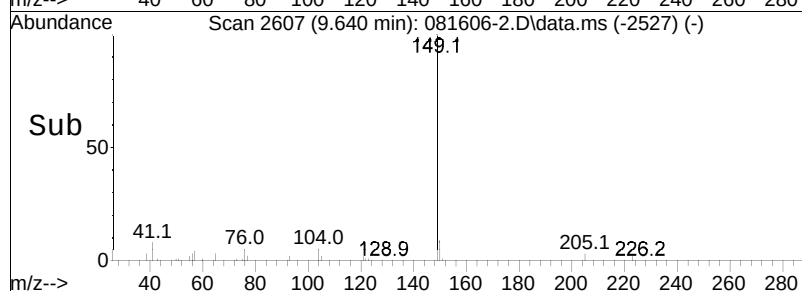
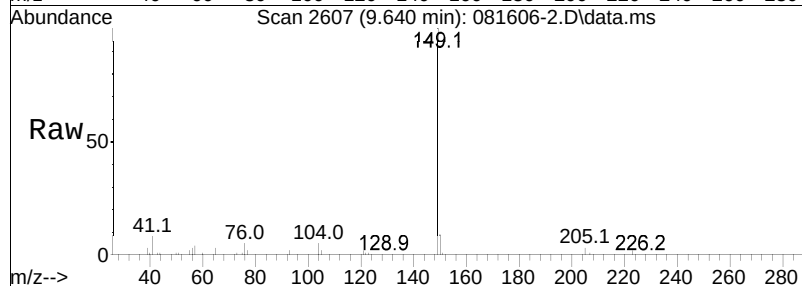
RT: 9.640 min Scan# 2607

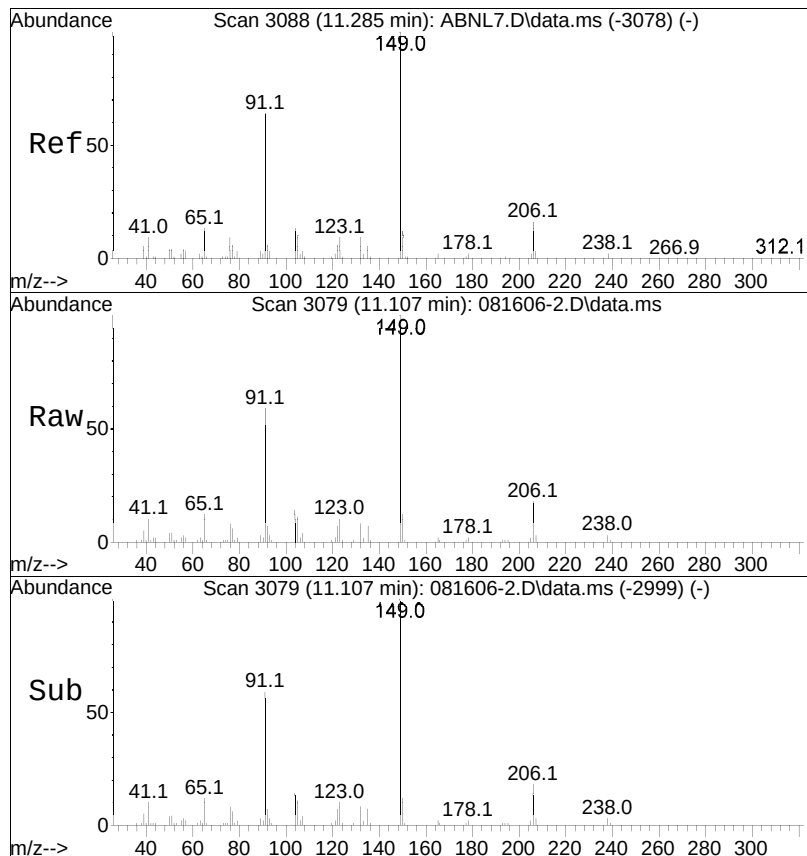
Delta R.T. 0.000 min

Lab File: 081606-2.D

Acq: 21 Jun 2025 9:13 am

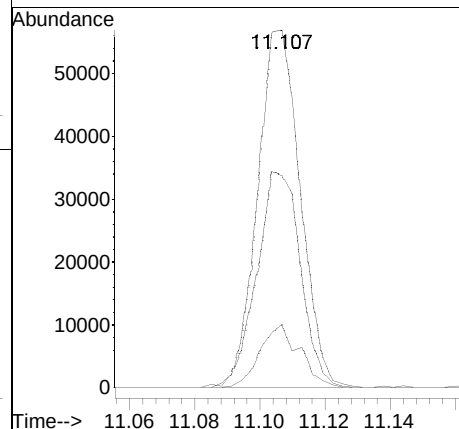
Tgt	Ion:149	Resp:	99532
Ion	Ratio	Lower	Upper
149	100		
150	9.6	7.0	10.6
104	5.1	4.5	6.7

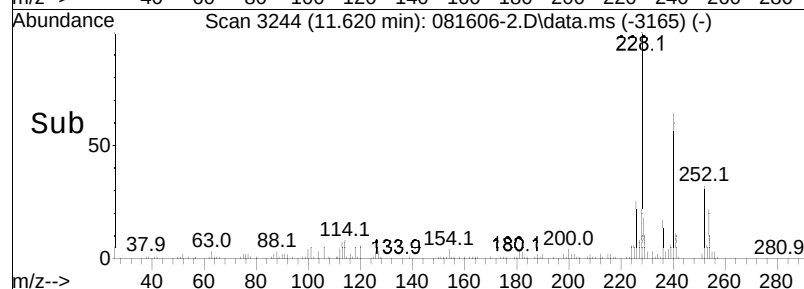
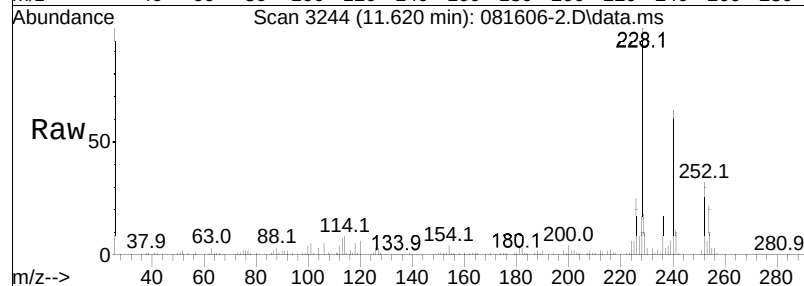
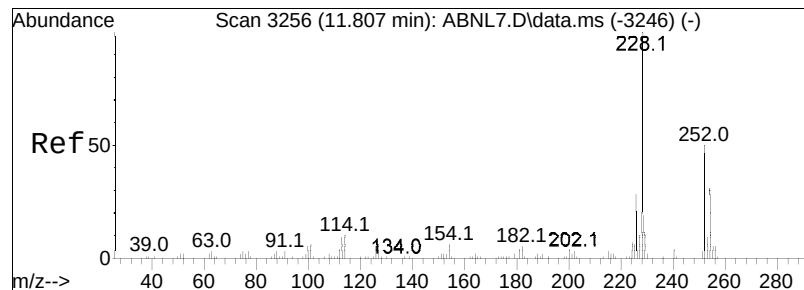




#99
 Butyl benzyl phthalate
 Concen: 1.90 ug/ml
 RT: 11.107 min Scan# 3079
 Delta R.T. 0.000 min
 Lab File: 081606-2.D
 Acq: 21 Jun 2025 9:13 am

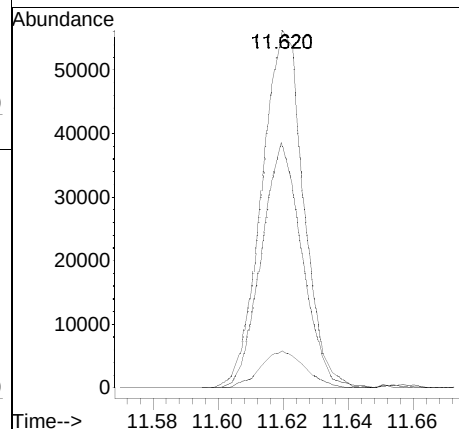
Tgt	Ion:149	Resp:	51315
Ion	Ratio	Lower	Upper
149	100		
91	61.8	63.3	94.9#
206	16.5	13.9	20.9

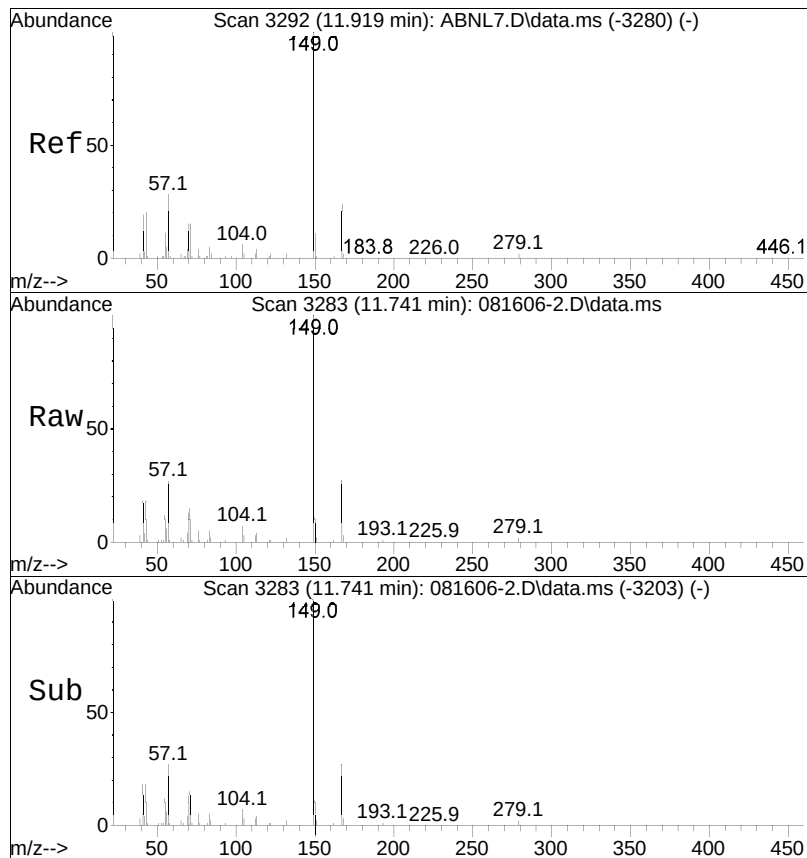




#108
 3,3'-Dichlorobenzidine
 Concen: 1.45 ug/ml
 RT: 11.620 min Scan# 3244
 Delta R.T. -0.003 min
 Lab File: 081606-2.D
 Acq: 21 Jun 2025 9:13 am

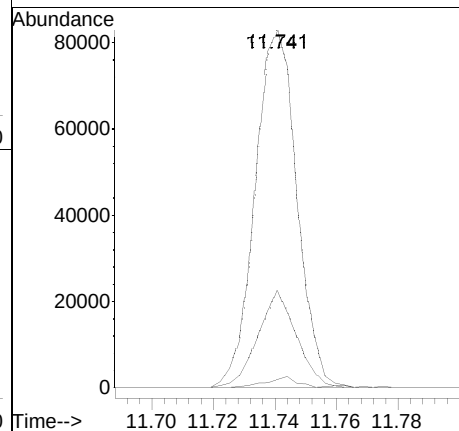
Tgt Ion	Ratio	Lower	Upper
252	100		
126	11.1	14.5	21.7#
254	66.7	51.2	76.8

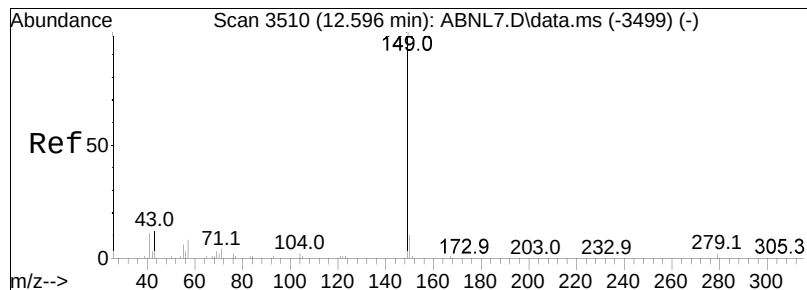




#110
 Bis(2-ethylhexyl)phthalate
 Concen: 1.58 ug/ml
 RT: 11.741 min Scan# 3283
 Delta R.T. 0.000 min
 Lab File: 081606-2.D
 Acq: 21 Jun 2025 9:13 am

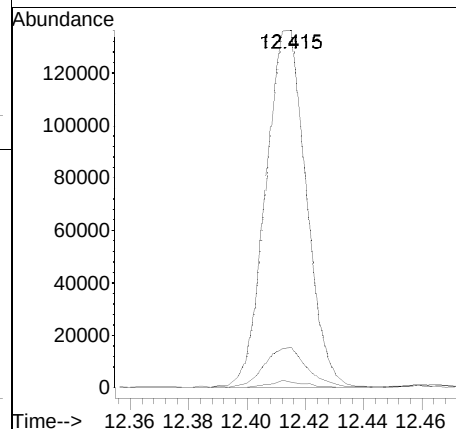
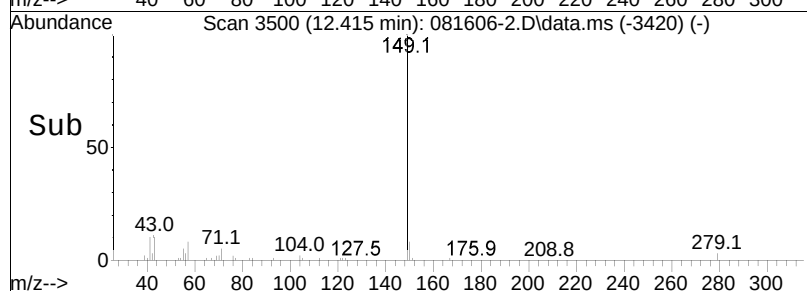
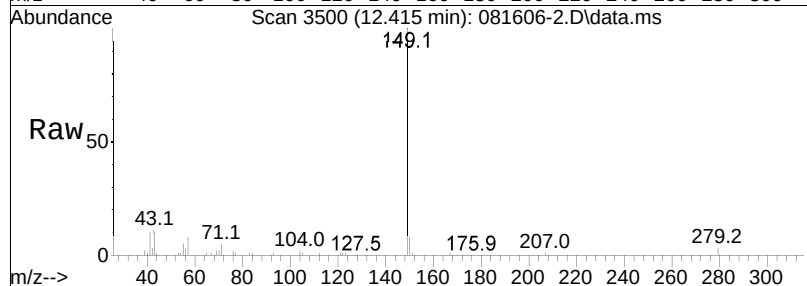
Tgt Ion:	149	Resp:	77465
Ion Ratio	Lower	Upper	
149	100		
167	25.1	22.1	33.1
279	2.1	3.0	4.4#





#111
 Di-n-octylphthalate
 Concen: 1.63 ug/ml
 RT: 12.415 min Scan# 3500
 Delta R.T. 0.000 min
 Lab File: 081606-2.D
 Acq: 21 Jun 2025 9:13 am

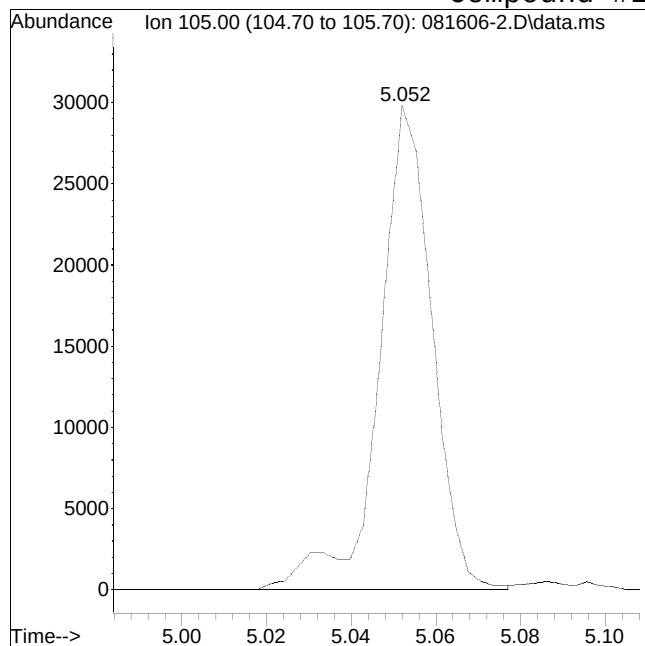
Tgt Ion	Ratio	Lower	Upper
149	100		
43	11.9	18.8	28.2#
167	1.4	1.3	1.9



Manual Integration Report

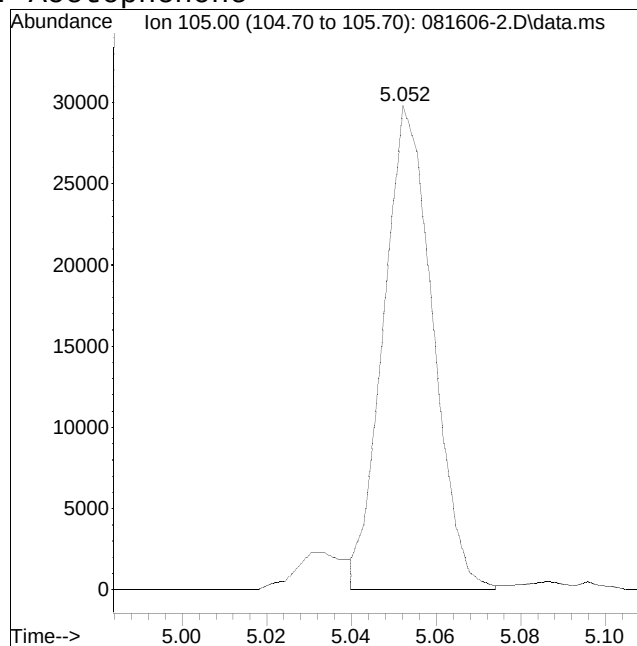
Data Path : I:\8270\Dakota\250621RVT\ QMethod : FS250416RVT_Dakota.m
Data File : 081606-2.D Operator : Dakota:smz
Date Inj'd : 6/21/2025 9:13 am Instrument : Dakota
Sample : WG2081606-2,32,,gmr Quant Date : 6/21/2025 9:31 am

Compound #29: Acetophenone



Original Peak Response = 26007

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 23970 M6

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250621RVT\
 Data File : 081606-3.D
 Acq On : 21 Jun 2025 9:35 am
 Operator : Dakota:smz
 Sample : WG2081606-3,32,,gmr
 Misc : WG2081719,WG2081606,ical22203
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 26 15:38:30 2025
 Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sat Jun 21 07:32:38 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250621RVT\ABN0621.D
 : 2 - I:\8270\Dakota\250621RVT\ADP0621.D
 : 3 - I:\8270\Dakota\250621RVT\AP90621.D
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.654	152	36865	4.000	ug/ml	0.00
Standard Area 1 = 34284			Recovery =	107.53%		
27) IS2_1,4-Dichlorobenzen...	4.654	152	36865	4.000	ug/ml	0.00
Standard Area 3 = 33532			Recovery =	109.94%		
32) IS3_1,4-Dichlorobenzen...	4.654	152	36865	4.000	ug/ml	0.00
Standard Area 2 = 30827			Recovery =	119.59%		
37) IS1_Naphthalene-d8	5.885	136	126730	4.000	ug/ml	# 0.00
Standard Area 1 = 122540			Recovery =	103.42%		
57) IS2_Naphthalene-d8	5.885	136	126730	4.000	ug/ml	# 0.00
Standard Area 3 = 118622			Recovery =	106.84%		
65) IS1_Acenaphthene-d10	7.585	164	98342	4.000	ug/ml	0.00
Standard Area 1 = 91691			Recovery =	107.25%		
85) IS2_Acenaphthene-d10	7.585	164	98342	4.000	ug/ml	0.00
Standard Area 3 = 90024			Recovery =	109.24%		
88) IS3_Acenaphthene-d10	7.585	164	98342	4.000	ug/ml	0.00
Standard Area 2 = 78881			Recovery =	124.67%		
90) IS1_Phenanthrene-d10	9.012	188	233126	4.000	ug/ml	0.00
Standard Area 1 = 216771			Recovery =	107.54%		
102) IS3_Phenanthrene-d10	9.012	188	233126	4.000	ug/ml	0.00
Standard Area 2 = 198240			Recovery =	117.60%		
106) IS1_Chrysene-d12	11.629	240	291724	4.000	ug/ml	# 0.00
Standard Area 1 = 275522			Recovery =	105.88%		
115) IS1_Perylene-d12	13.083	264	349207	4.000	ug/ml	0.00
Standard Area 1 = 328421			Recovery =	106.33%		
System Monitoring Compounds						
4) 2-Fluorophenol	3.386	112	8785	0.928	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	46.40%		
7) Phenol-d6	4.337	99	8827	0.756	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	37.80%		
19) Nitrobenzene-d5	5.192	82	8887	0.710	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	71.00%		
48) 2-Fluorobiphenyl	6.954	172	23083	0.699	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	69.90%		
81) 2,4,6-Tribromophenol	8.347	330	10132	1.750	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	87.50%		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250621RVT\
 Data File : 081606-3.D
 Acq On : 21 Jun 2025 9:35 am
 Operator : Dakota:smz
 Sample : WG2081606-3,32,,gmr
 Misc : WG2081719,WG2081606,ical22203
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 26 15:38:30 2025
 Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sat Jun 21 07:32:38 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250621RVT\ABN0621.D
 : 2 - I:\8270\Dakota\250621RVT\ADP0621.D
 : 3 - I:\8270\Dakota\250621RVT\AP90621.D
 Sub List : 8270TCL_REV2 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
98) 4-Terphenyl-d14	10.581	244	47193	0.757	ug/ml	0.00
Spiked Amount	1.000	Range	30 - 130	Recovery	=	75.70%
Target Compounds						Qvalue
6) 2-Chlorophenol	4.449	128	13987	1.335	ug/ml	96
8) Phenol	4.346	94	11306	0.795	ug/ml#	56
14) Bis(2-chloroisopropyl)...	4.956	45	22880	1.160	ug/ml#	74
15) 2-Methylphenol	4.937	108	12504	1.338	ug/ml	100
17) n-Nitrosodi-n-propylamine	5.074	70	12249	1.465	ug/ml#	83
18) 3-Methylphenol/4-Methy...	5.092	108	13654	1.364	ug/ml	98
20) Nitrobenzene	5.210	77	16124	1.316	ug/ml	94
21) Isophorone	5.453	82	31912	1.418	ug/ml#	92
22) 2-Nitrophenol	5.528	139	8538	1.579	ug/ml	97
23) 2,4-Dimethylphenol	5.602	107	14646	1.359	ug/ml	92
24) Bis(2-chloroethoxy)met...	5.686	93	17234	1.300	ug/ml#	92
25) 2,4-Dichlorophenol	5.764	162	18750	1.678	ug/ml#	93
28) Benzaldehyde	4.219	105	11246	1.454	ug/ml	92
29) Acetophenone	5.052	105	21184M6	1.552	ug/ml	
40) 4-Chloroaniline	5.975	65	4822	1.087	ug/ml#	73
42) p-Chloro-m-cresol	6.472	107	15520	1.721	ug/ml	97
45) Hexachlorocyclopentadiene	6.752	237	5768	0.534	ug/ml	98
46) 2,4,6-Trichlorophenol	6.870	196	16744	1.790	ug/ml	97
47) 2,4,5-Trichlorophenol	6.898	196	20089	1.936	ug/ml	92
50) 2-Nitroaniline	7.159	138	11067	1.631	ug/ml	97
53) Dimethyl phthalate	7.358	163	52462	1.637	ug/ml#	97
55) 2,6-Dinitrotoluene	7.402	165	10318	1.609	ug/ml#	77
62) Caprolactam	6.277	55	3818	0.713	ug/ml#	85
63) 1,2,4,5-Tetrachloroben...	6.752	216	18198	1.294	ug/ml	96
64) Biphenyl	7.044	154	41227	1.369	ug/ml	96
66) 3-Nitroaniline	7.554	138	10109	1.510	ug/ml	92
68) 2,4-Dinitrophenol	7.660	184	4850	1.233	ug/ml#	73
69) Dibenzofuran	7.784	168	58587	1.272	ug/ml	88
70) 2,4-Dinitrotoluene	7.787	165	15103	1.534	ug/ml	89
71) 4-Nitrophenol	7.744	65	6755	1.112	ug/ml	96
74) Diethyl phthalate	8.048	149	50432	1.462	ug/ml	97
76) 4-Chlorophenyl phenyl ...	8.132	204	24701	1.328	ug/ml#	82
77) 4-Nitroaniline	8.141	138	11708	1.665	ug/ml#	87

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250621RVT\
 Data File : 081606-3.D
 Acq On : 21 Jun 2025 9:35 am
 Operator : Dakota:smz
 Sample : WG2081606-3,32,,gmr
 Misc : WG2081719,WG2081606,ical22203
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 26 15:38:30 2025
 Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sat Jun 21 07:32:38 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250621RVT\ABN0621.D
 : 2 - I:\8270\Dakota\250621RVT\ADP0621.D
 : 3 - I:\8270\Dakota\250621RVT\AP90621.D
 Sub List : 8270TCL_REV2 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78)	4,6-Dinitro-o-cresol	8.176	198	7863	1.291	ug/ml#	62
79)	NDPA/DPA	8.247	169	47237	1.506	ug/ml	95
82)	4-Bromophenyl phenyl e...	8.601	248	17297	1.472	ug/ml#	78
89)	Atrazine	8.785	200	17859	1.715	ug/ml	93
93)	Carbazole	9.251	167	94648	1.532	ug/ml	99
94)	Di-n-butylphthalate	9.636	149	91169	1.422	ug/ml	98
99)	Butyl benzyl phthalate	11.107	149	43607	1.567	ug/ml	88
108)	3,3'-Dichlorobenzidine	11.619	252	45684	1.349	ug/ml#	95
110)	Bis(2-ethylhexyl)phtha...	11.741	149	67092	1.391	ug/ml#	93
111)	Di-n-octylphthalate	12.412	149	111827	1.428	ug/ml#	76

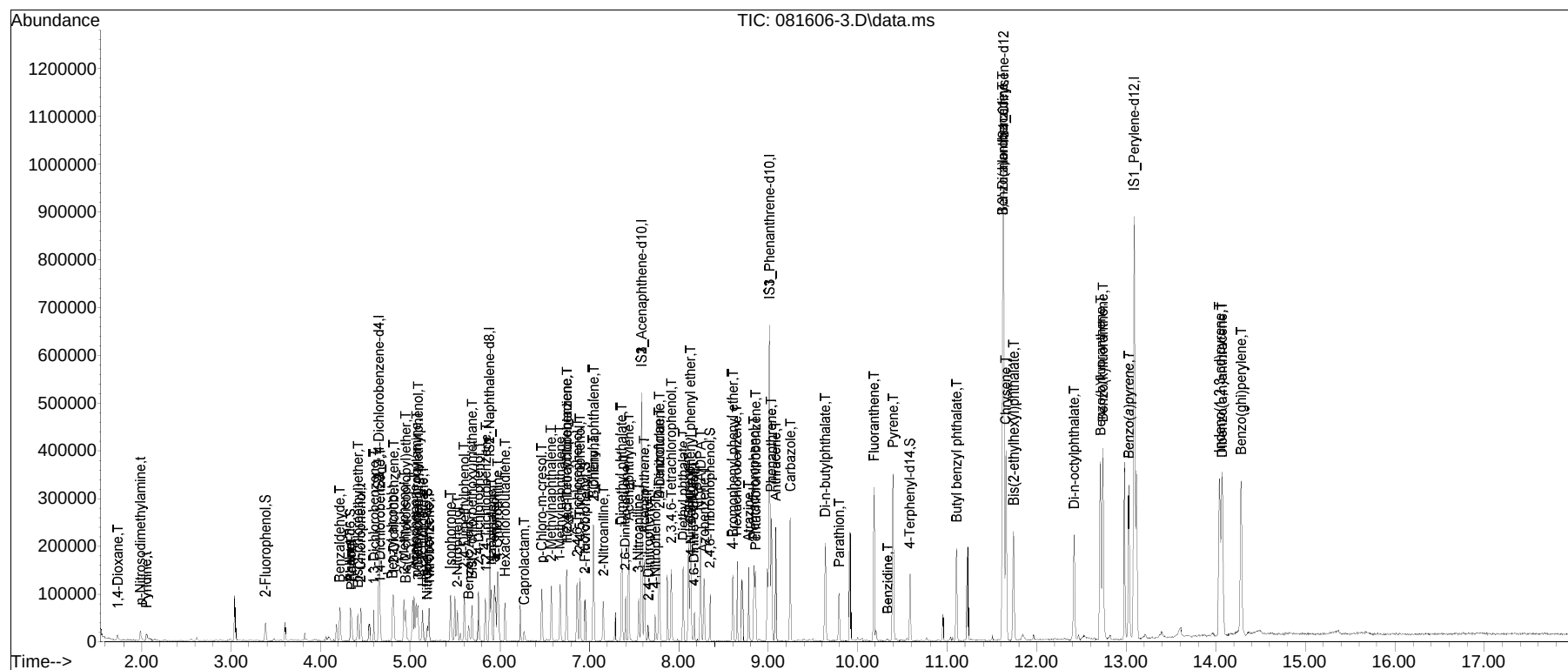
(#) = qualifier out of range (m) = manual integration (+) = signals summed

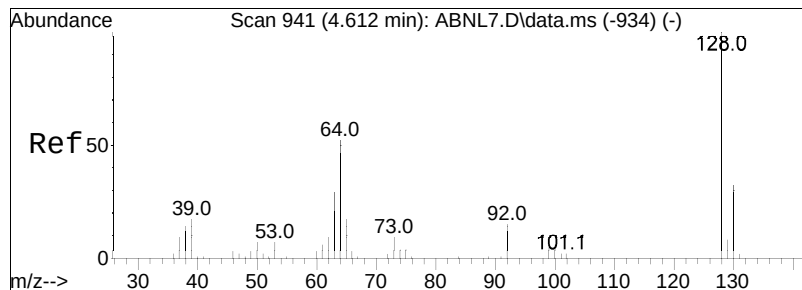
Quantitation Report (QT Reviewed)

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Data Path : I:\8270\Dakota\250621RVT\  
Data File : 081606-3.D  
Acq On    : 21 Jun 2025    9:35 am  
Operator  : Dakota:smz  
Sample    : WG2081606-3,32,,gmr  
Misc      : WG2081719,WG2081606,ical22203  
ALS Vial  : 6    Sample Multiplier: 1
```

Quant Time: Jun 26 15:38:30 2025
Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 21 07:32:38 2025
Response via : Initial Calibration

Sub List : 8270IC\8270\2Dakota\TX2500\21RVT\AP90621.D•





#6

2-Chlorophenol

Concen: 1.34 ug/ml

RT: 4.449 min Scan# 937

Delta R.T. -0.000 min

Lab File: 081606-3.D

Acq: 21 Jun 2025 9:35 am

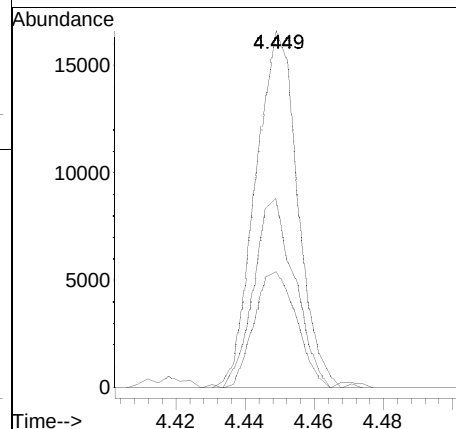
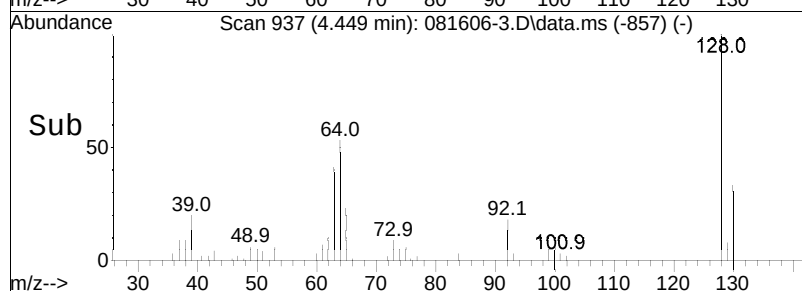
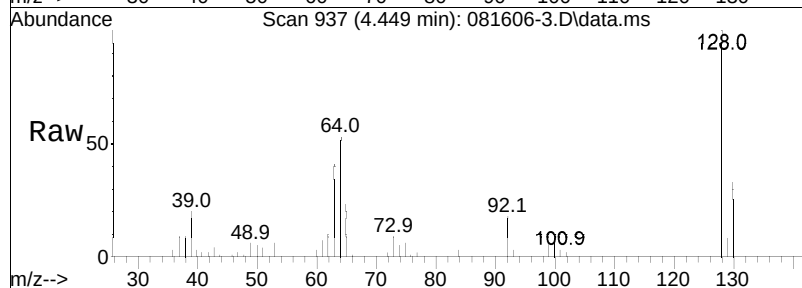
Tgt Ion:128 Resp: 13987

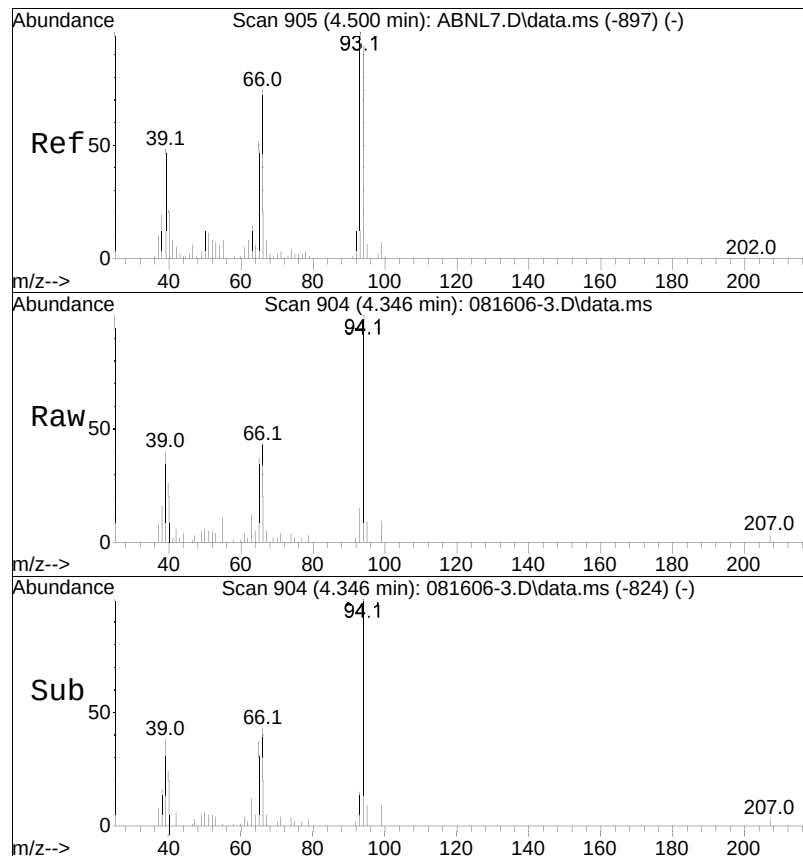
Ion Ratio Lower Upper

128 100

64 52.2 45.1 67.7

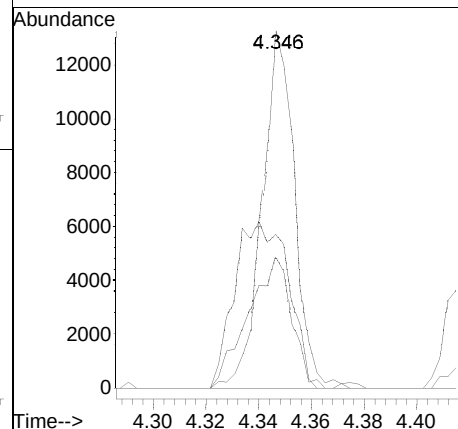
130 32.8 26.2 39.4

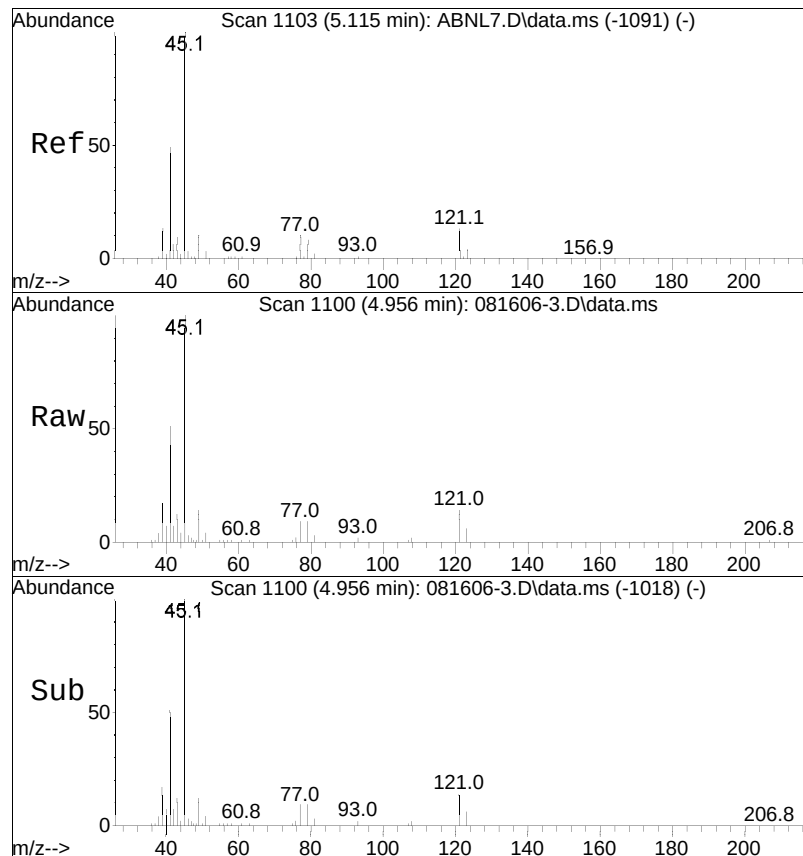




#8
 Phenol
 Concen: 0.80 ug/ml
 RT: 4.346 min Scan# 904
 Delta R.T. -0.000 min
 Lab File: 081606-3.D
 Acq: 21 Jun 2025 9:35 am

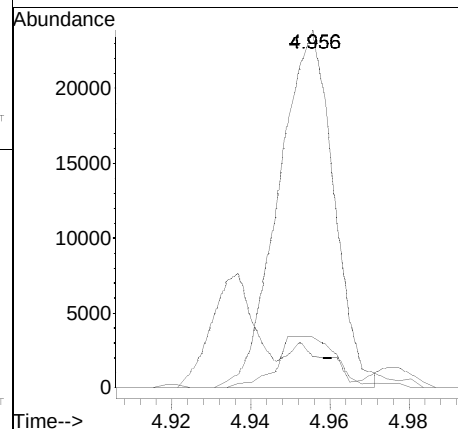
Tgt Ion:	94	Resp:	11306
Ion Ratio	Lower	Upper	
94	100		
65	49.2	26.0	39.0#
66	77.0	33.8	50.8#

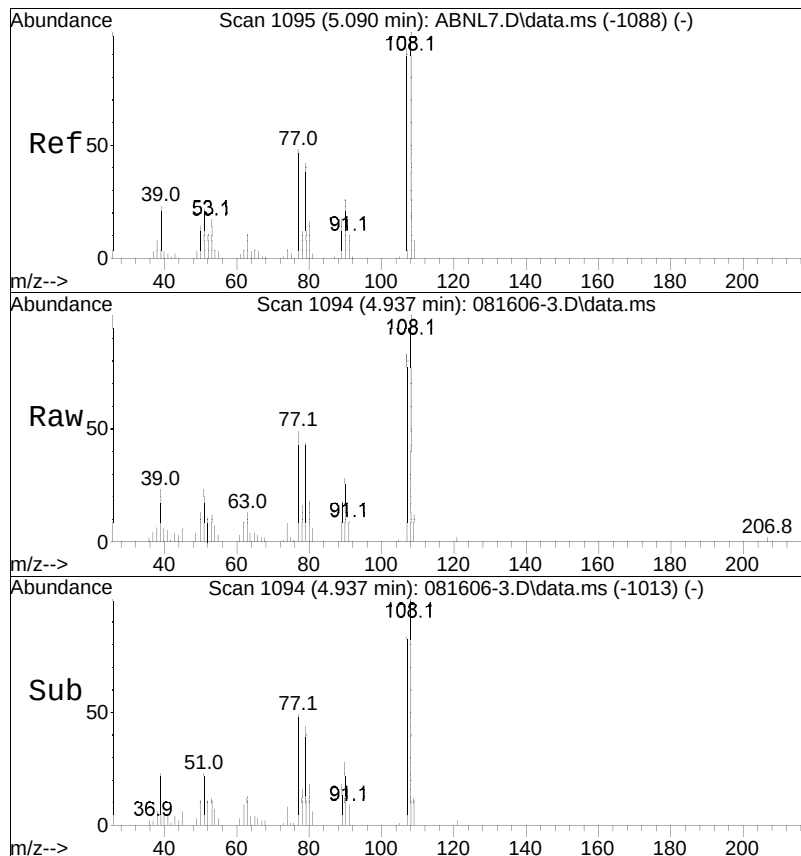




#14
 Bis(2-chloroisopropyl)ether
 Concen: 1.16 ug/ml
 RT: 4.956 min Scan# 1100
 Delta R.T. 0.006 min
 Lab File: 081606-3.D
 Acq: 21 Jun 2025 9:35 am

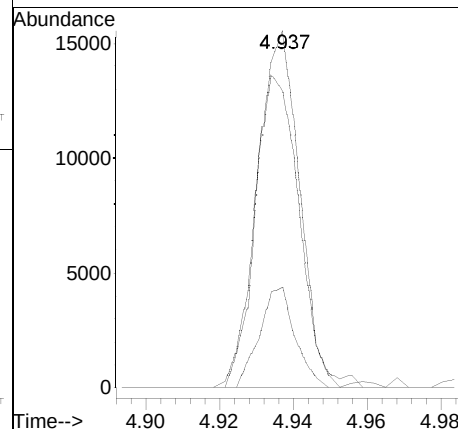
Tgt Ion:	45	Resp:	22880
Ion Ratio	Lower	Upper	
45	100		
121	15.9	9.8	14.6#
77	26.1	6.1	9.1#

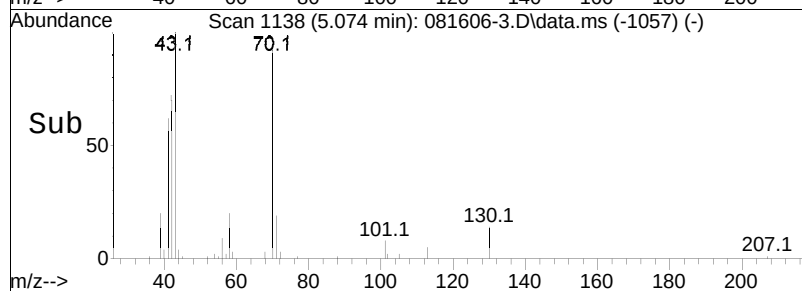
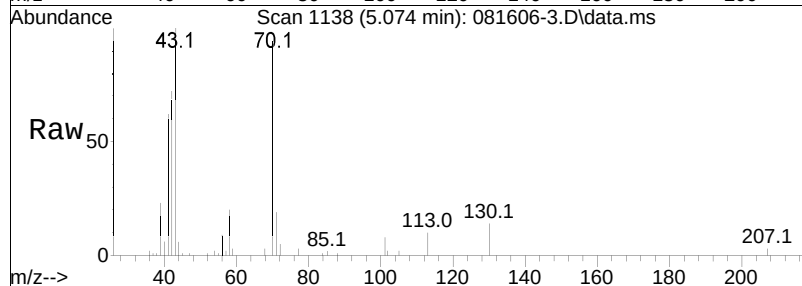
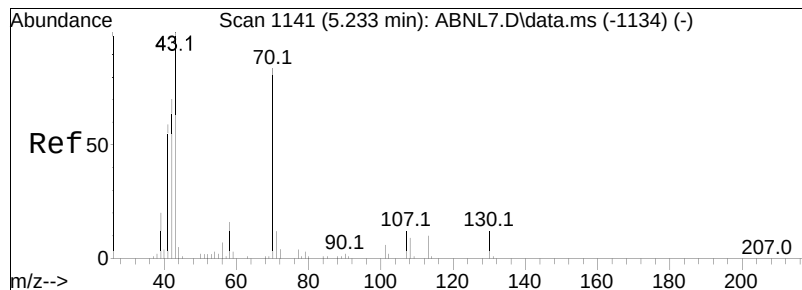




#15
 2-Methylphenol
 Concen: 1.34 ug/ml
 RT: 4.937 min Scan# 1094
 Delta R.T. 0.003 min
 Lab File: 081606-3.D
 Acq: 21 Jun 2025 9:35 am

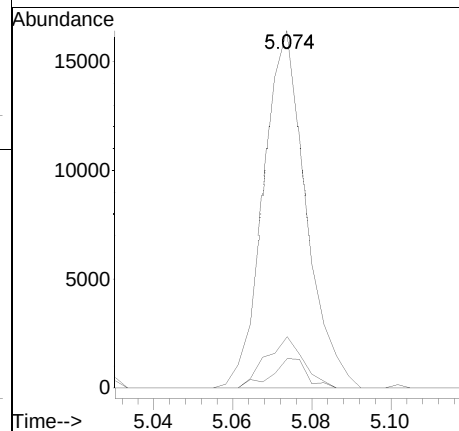
Tgt Ion:	108	Resp:	12504
Ion Ratio	Lower	Upper	
108	100		
107	88.7	70.7	106.1
90	23.5	18.7	28.1

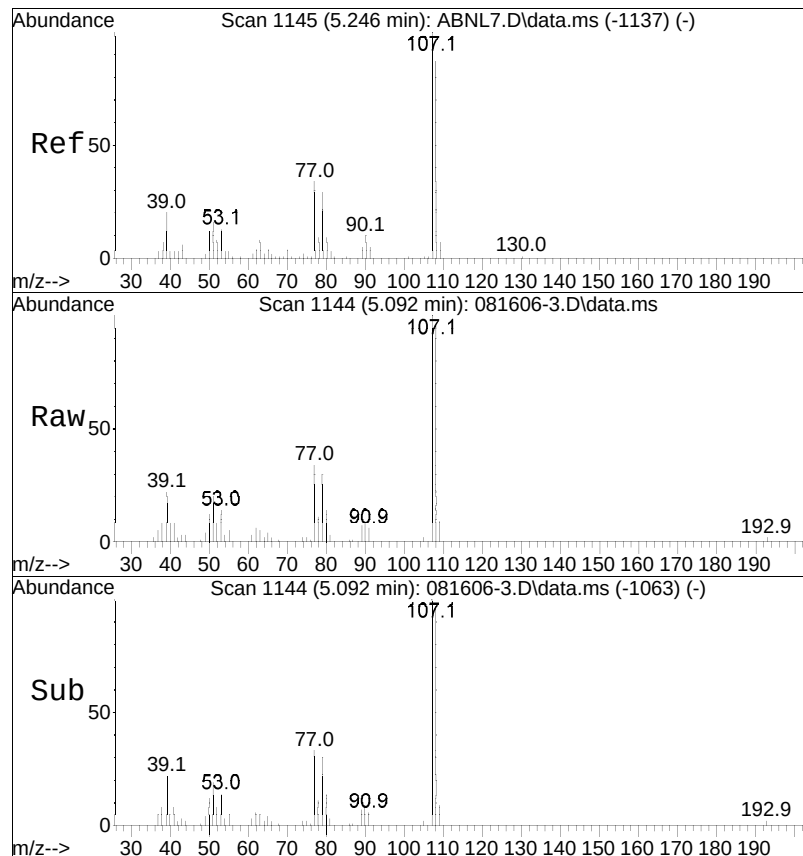




#17
 n-Nitrosodi-n-propylamine
 Concen: 1.46 ug/ml
 RT: 5.074 min Scan# 1138
 Delta R.T. 0.003 min
 Lab File: 081606-3.D
 Acq: 21 Jun 2025 9:35 am

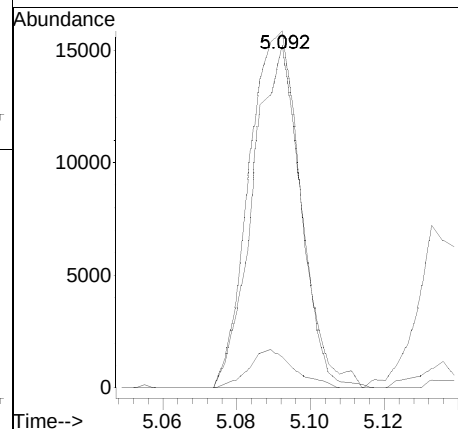
Tgt Ion	Ratio	Lower	Upper
70	100		
130	12.6	18.2	27.4#
101	6.7	7.8	11.8#

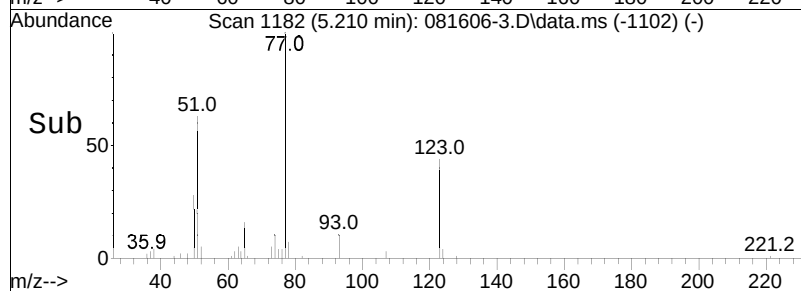
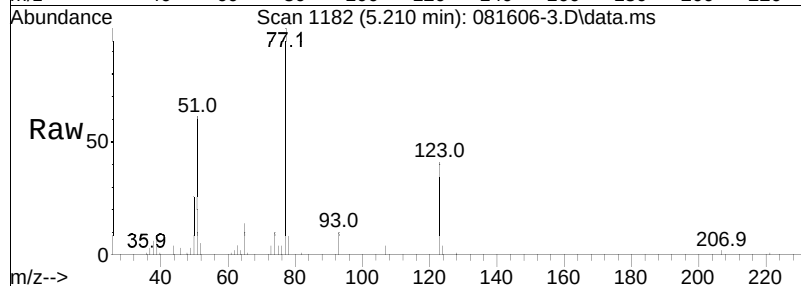
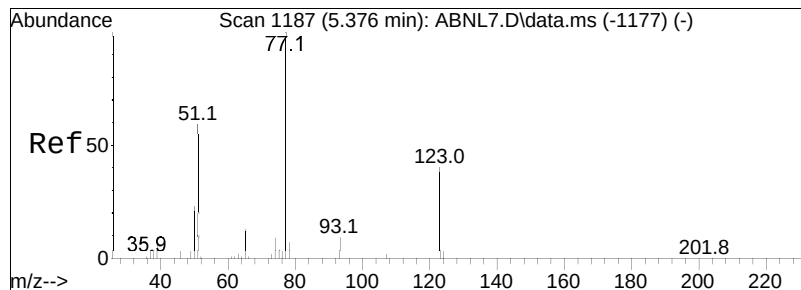




#18
 3-Methylphenol/4-Methylphenol
 Concen: 1.36 ug/ml
 RT: 5.092 min Scan# 1144
 Delta R.T. 0.003 min
 Lab File: 081606-3.D
 Acq: 21 Jun 2025 9:35 am

Tgt Ion	Ratio	Lower	Upper
108	100		
107	113.1	88.6	132.8
90	10.8	8.8	13.2





#20

Nitrobenzene

Concen: 1.32 ug/ml

RT: 5.210 min Scan# 1182

Delta R.T. -0.000 min

Lab File: 081606-3.D

Acq: 21 Jun 2025 9:35 am

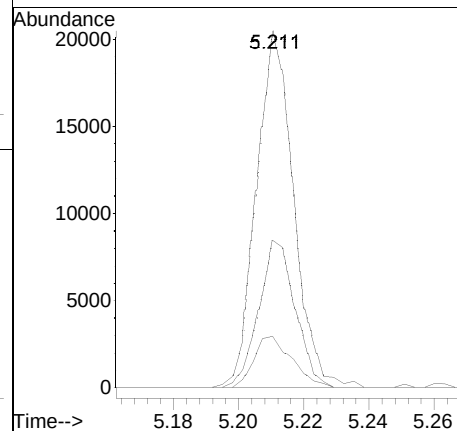
Tgt Ion: 77 Resp: 16124

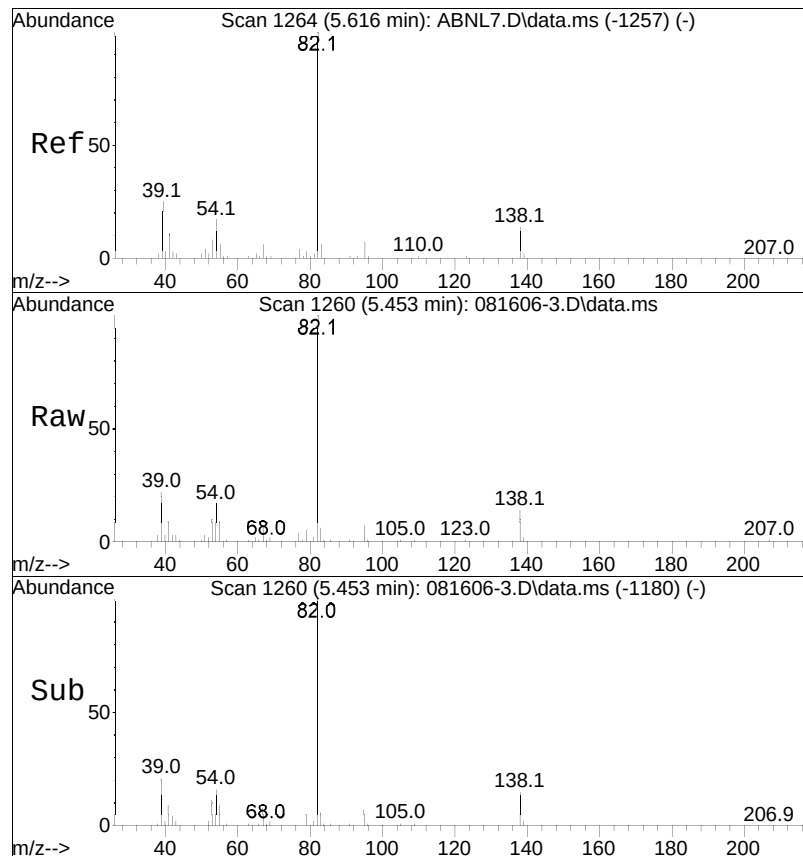
Ion Ratio Lower Upper

77 100

123 40.6 36.3 54.5

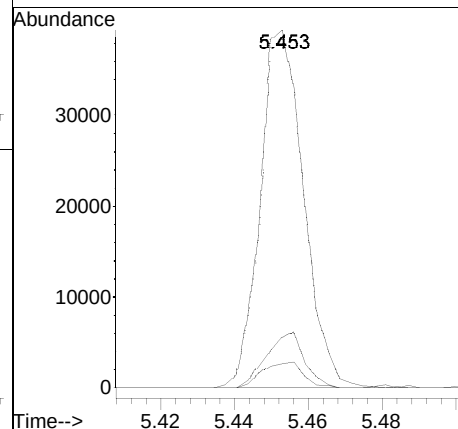
65 14.9 11.6 17.4

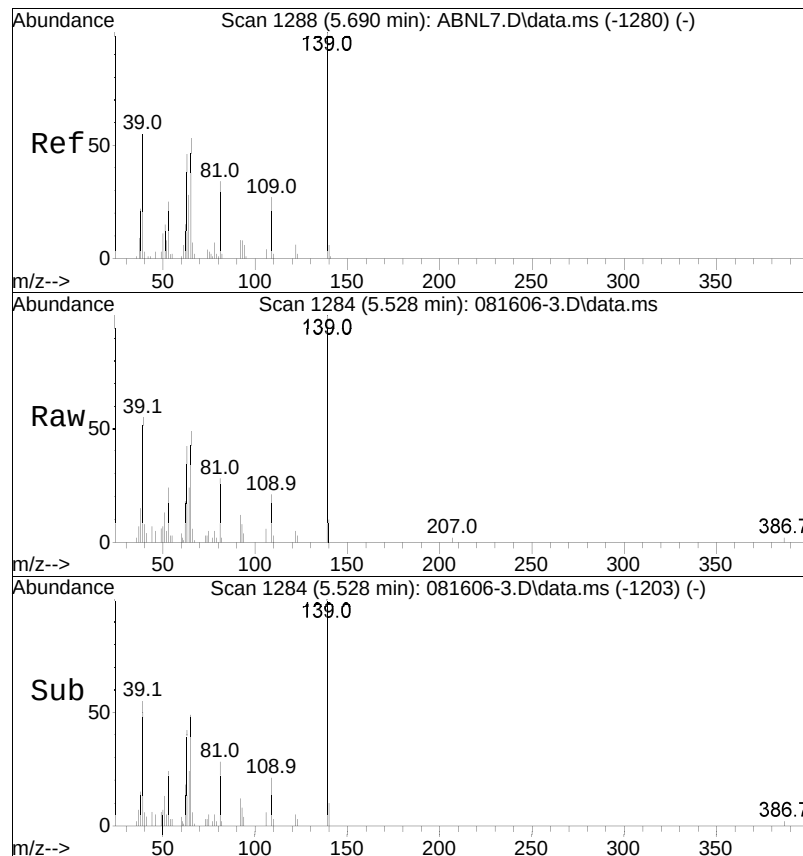




#21
 Isophorone
 Concen: 1.42 ug/ml
 RT: 5.453 min Scan# 1260
 Delta R.T. -0.000 min
 Lab File: 081606-3.D
 Acq: 21 Jun 2025 9:35 am

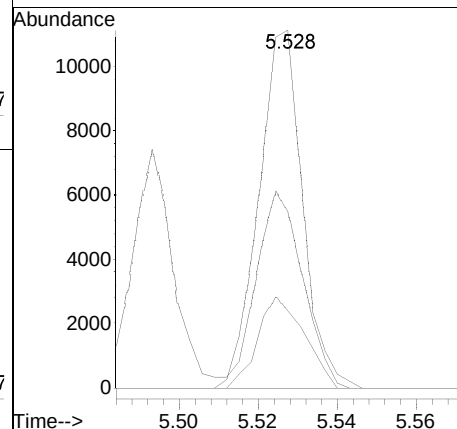
Tgt Ion:	82	Resp:	31912
Ion Ratio	Lower	Upper	
82	100		
138	13.8	14.7	22.1#
95	7.0	5.2	7.8

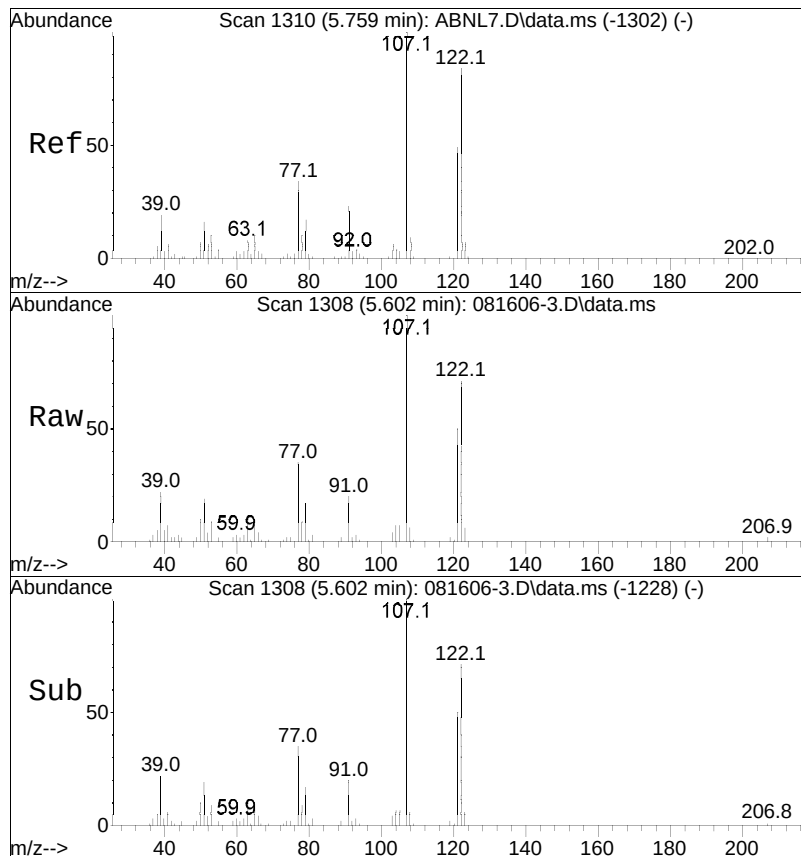




#22
 2-Nitrophenol
 Concen: 1.58 ug/ml
 RT: 5.528 min Scan# 1284
 Delta R.T. 0.003 min
 Lab File: 081606-3.D
 Acq: 21 Jun 2025 9:35 am

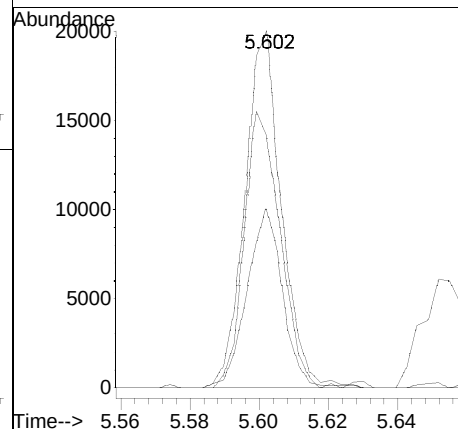
Tgt Ion	Ratio	Lower	Upper
139	100		
109	26.8	19.4	29.0
65	58.7	46.1	69.1

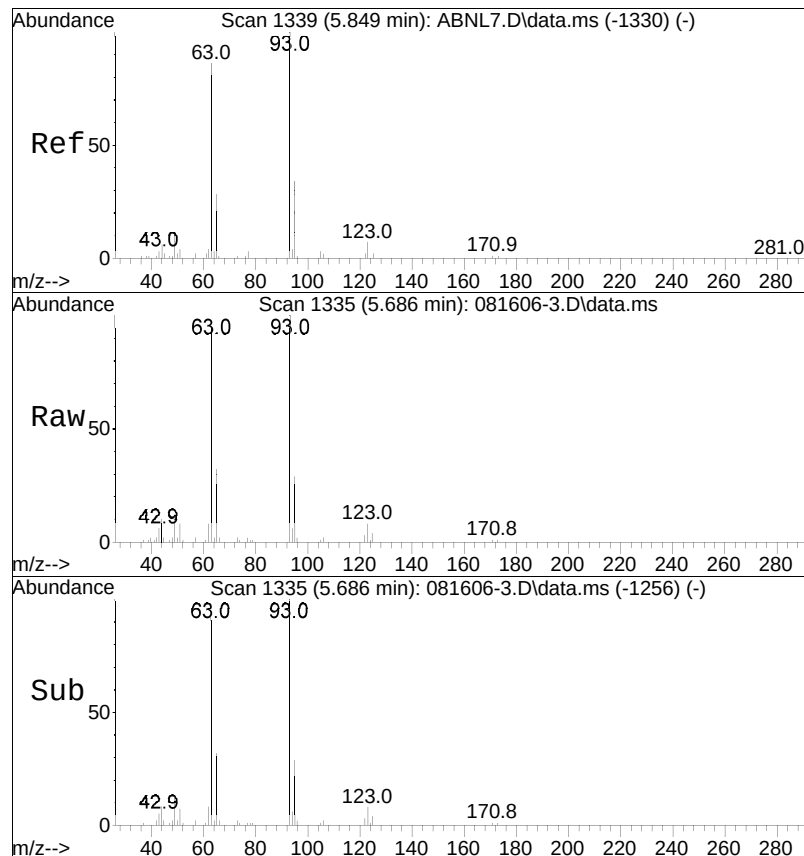




#23
 2,4-Dimethylphenol
 Concen: 1.36 ug/ml
 RT: 5.602 min Scan# 1308
 Delta R.T. -0.000 min
 Lab File: 081606-3.D
 Acq: 21 Jun 2025 9:35 am

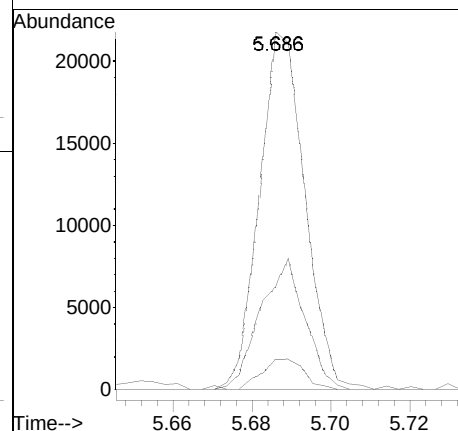
Tgt Ion:	107	Resp:	14646
Ion Ratio	Lower	Upper	
107	100		
121	49.4	40.0	60.0
122	76.5	70.2	105.4

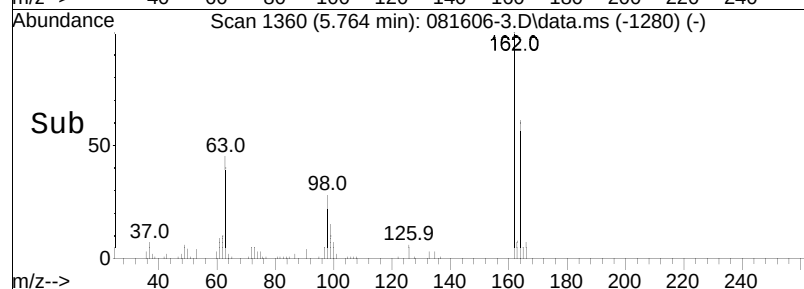
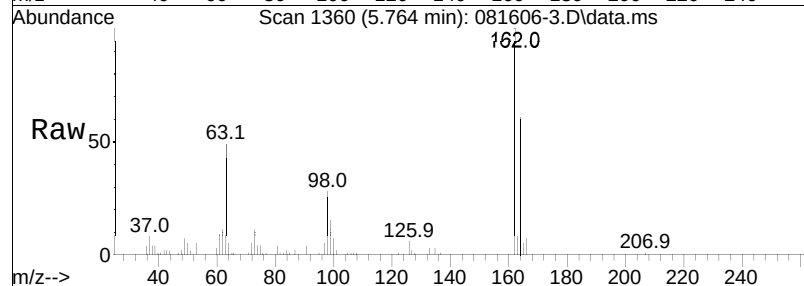
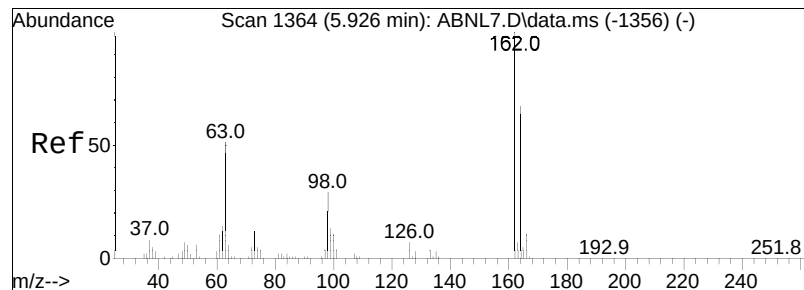




#24
 Bis(2-chloroethoxy)methane
 Concen: 1.30 ug/ml
 RT: 5.686 min Scan# 1335
 Delta R.T. -0.003 min
 Lab File: 081606-3.D
 Acq: 21 Jun 2025 9:35 am

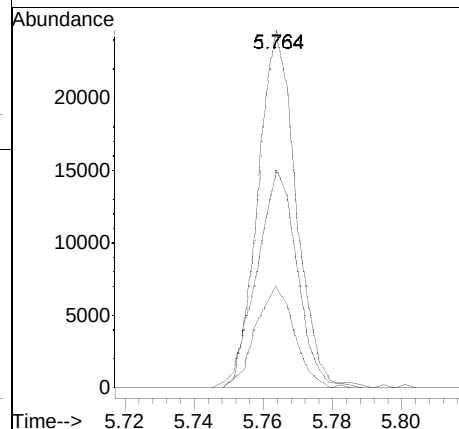
Tgt Ion	Ratio	Lower	Upper
93	100		
95	36.0	25.8	38.8
123	8.3	10.1	15.1#

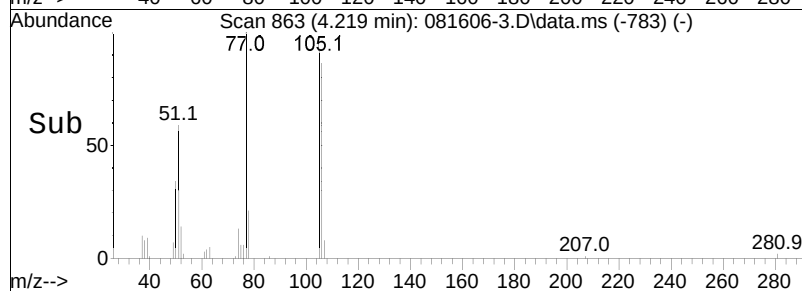
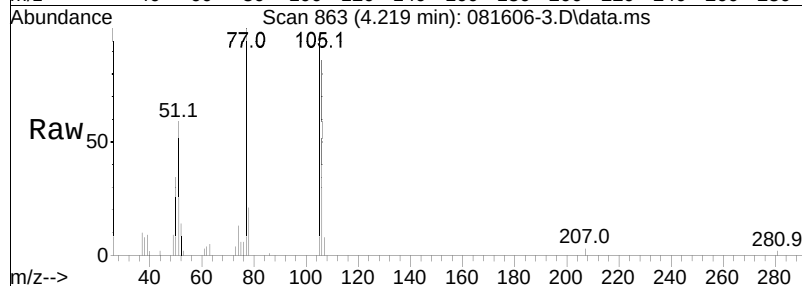
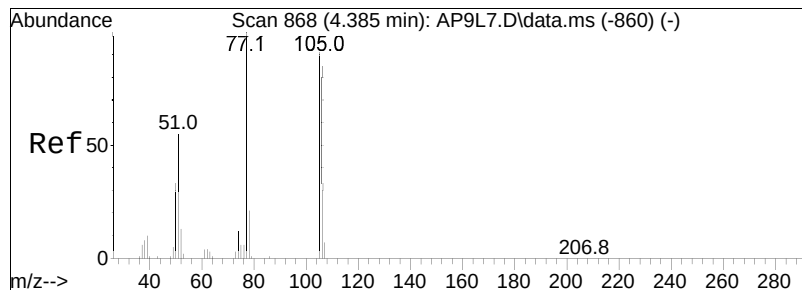




#25
 2,4-Dichlorophenol
 Concen: 1.68 ug/ml
 RT: 5.764 min Scan# 1360
 Delta R.T. -0.000 min
 Lab File: 081606-3.D
 Acq: 21 Jun 2025 9:35 am

Tgt Ion	Ratio	Resp	Lower	Upper
162	100	18750		
164	63.9		51.0	76.4
98	29.1		32.2	48.2#





#28

Benzaldehyde

Concen: 1.45 ug/ml

RT: 4.219 min Scan# 863

Delta R.T. -0.000 min

Lab File: 081606-3.D

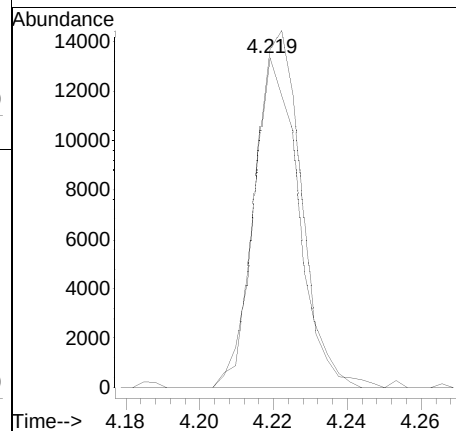
Acq: 21 Jun 2025 9:35 am

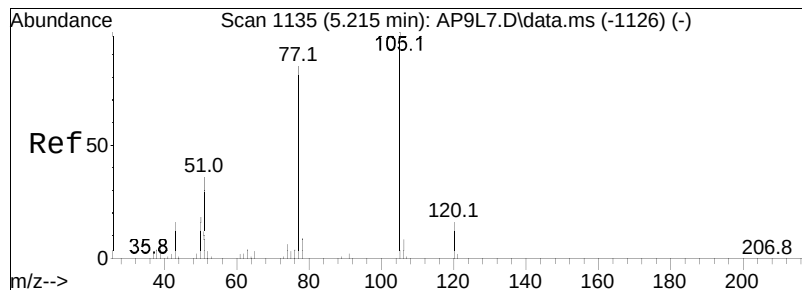
Tgt Ion:105 Resp: 11246

Ion Ratio Lower Upper

105 100

77 111.4 82.2 123.4





#29

Acetophenone

Concen: 1.55 ug/ml M6

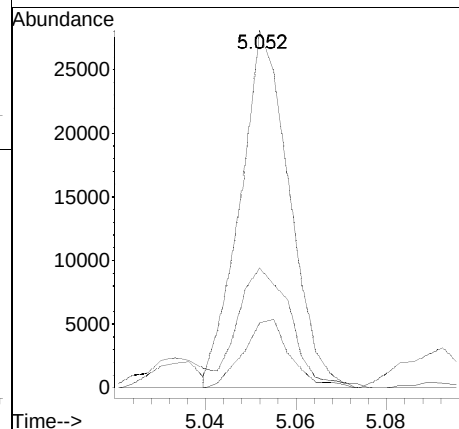
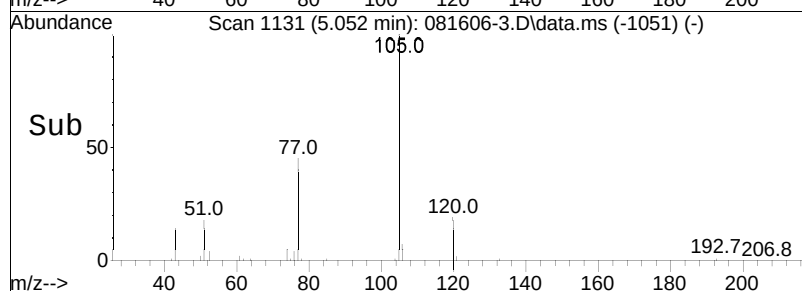
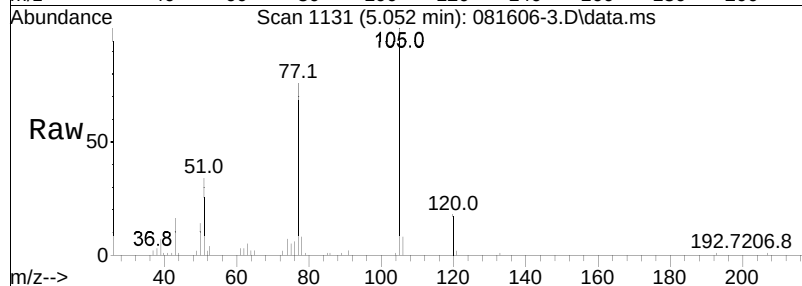
RT: 5.052 min Scan# 1131

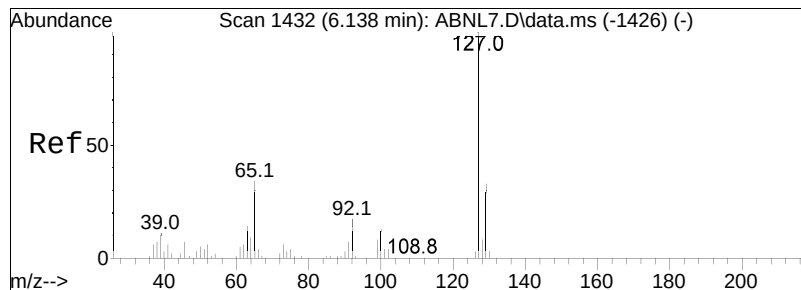
Delta R.T. -0.000 min

Lab File: 081606-3.D

Acq: 21 Jun 2025 9:35 am

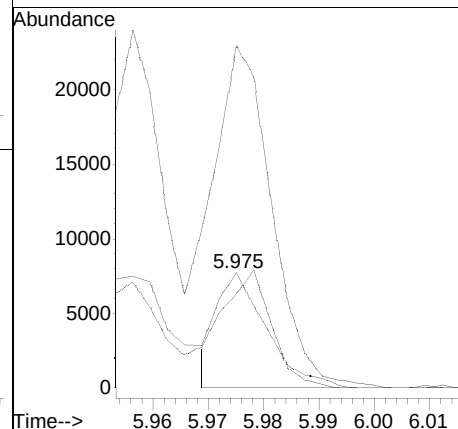
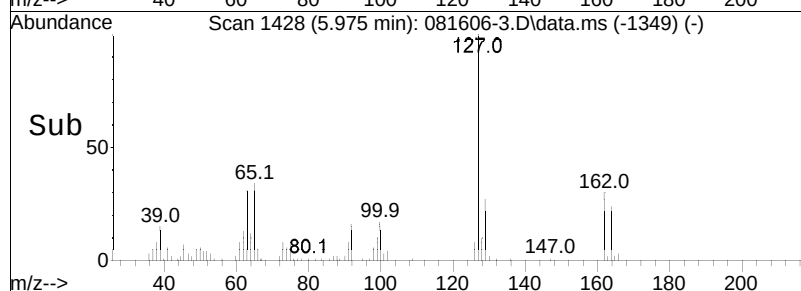
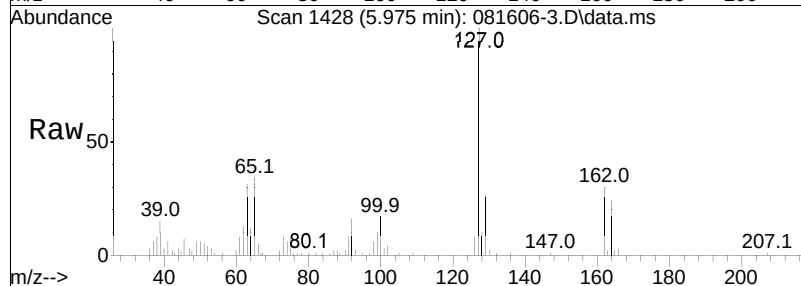
Tgt Ion:	105	Resp:	21184
Ion Ratio	Lower	Upper	
105	100		
120	18.2	20.5	30.7#
51	35.2	34.9	52.3

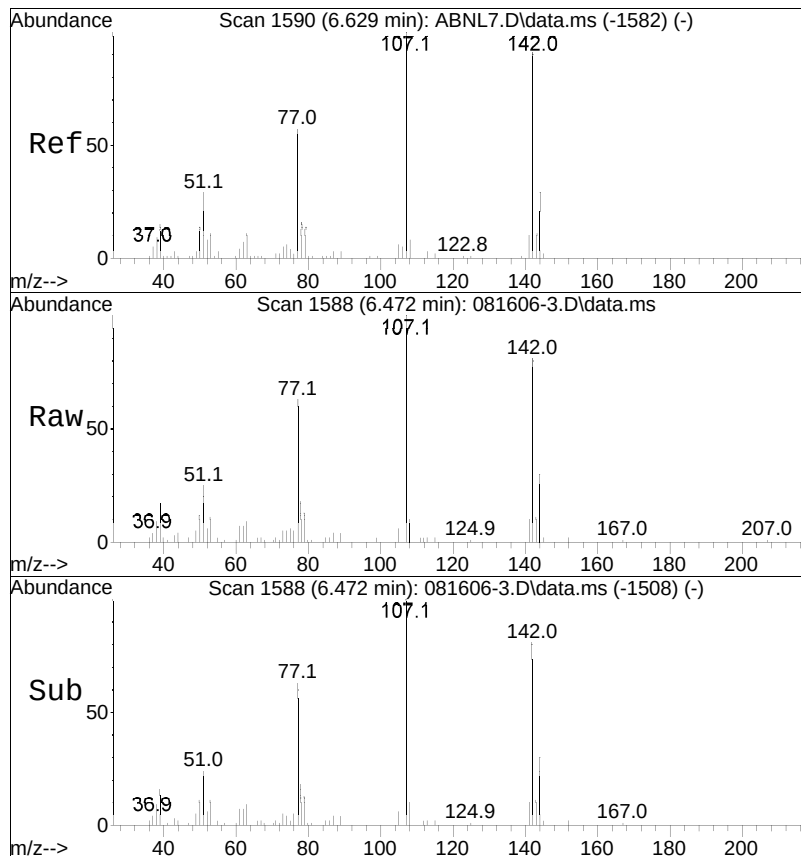




#40
 4-Chloroaniline
 Concen: 1.09 ug/ml
 RT: 5.975 min Scan# 1428
 Delta R.T. -0.003 min
 Lab File: 081606-3.D
 Acq: 21 Jun 2025 9:35 am

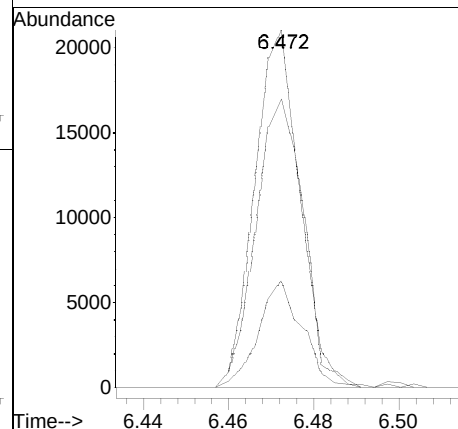
Tgt Ion	Ratio	Lower	Upper
65	100		
127	358.2	237.6	356.4#
129	109.7	76.3	114.5

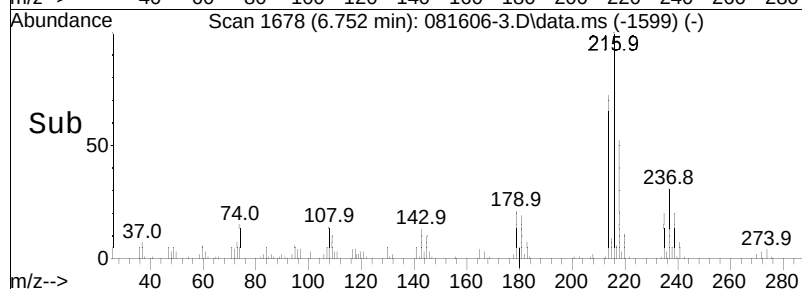
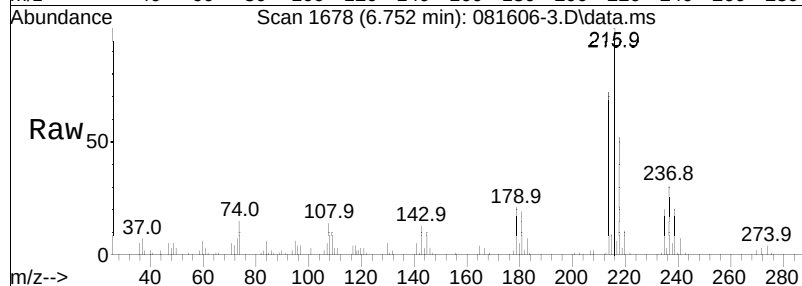
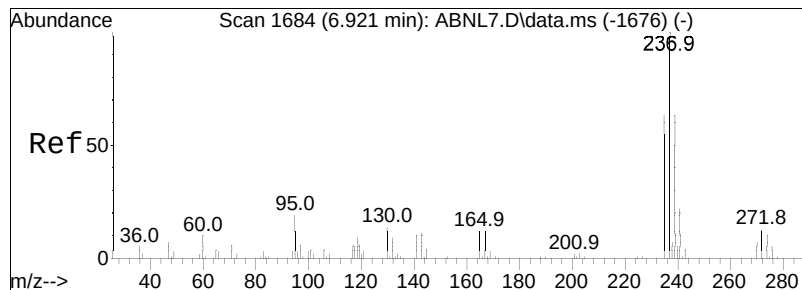




#42
 p-Chloro-m-cresol
 Concen: 1.72 ug/ml
 RT: 6.472 min Scan# 1588
 Delta R.T. -0.000 min
 Lab File: 081606-3.D
 Acq: 21 Jun 2025 9:35 am

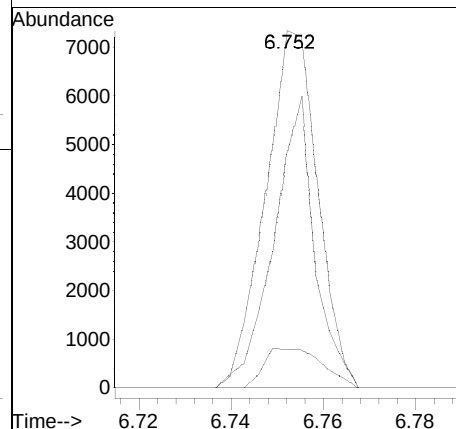
Tgt Ion:	107	Resp:	15520
Ion Ratio	Lower	Upper	
107	100		
144	29.1	20.9	31.3
142	84.9	66.1	99.1

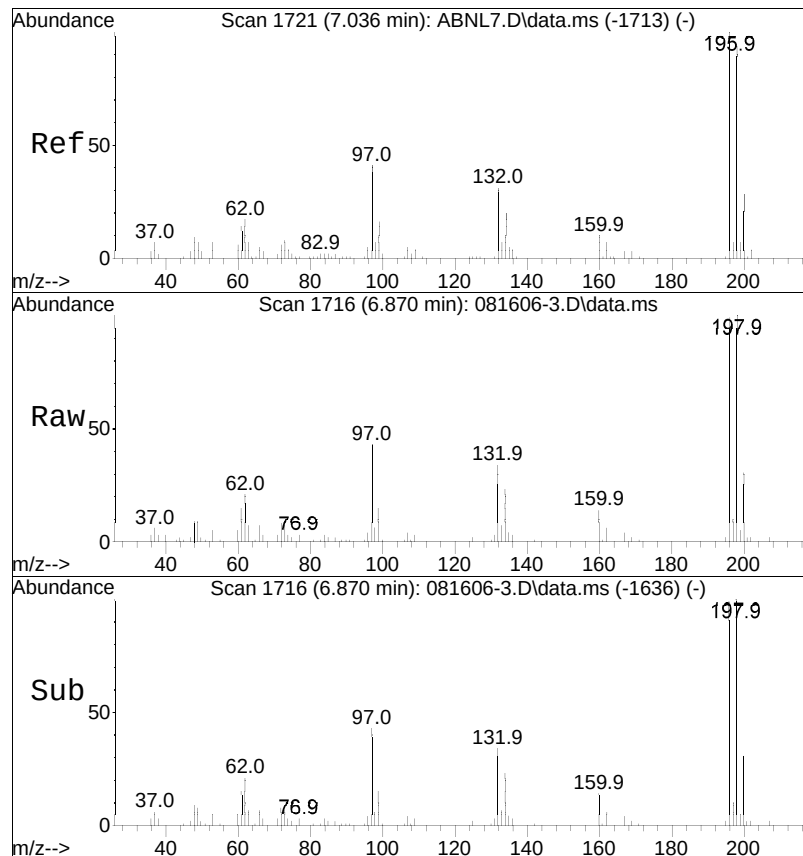




#45
 Hexachlorocyclopentadiene
 Concen: 0.53 ug/ml
 RT: 6.752 min Scan# 1678
 Delta R.T. -0.003 min
 Lab File: 081606-3.D
 Acq: 21 Jun 2025 9:35 am

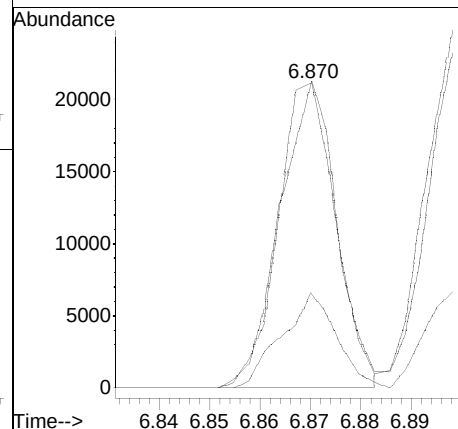
Tgt Ion	Ratio	Lower	Upper
237	100		
235	64.0	49.7	74.5
272	12.4	9.8	14.6

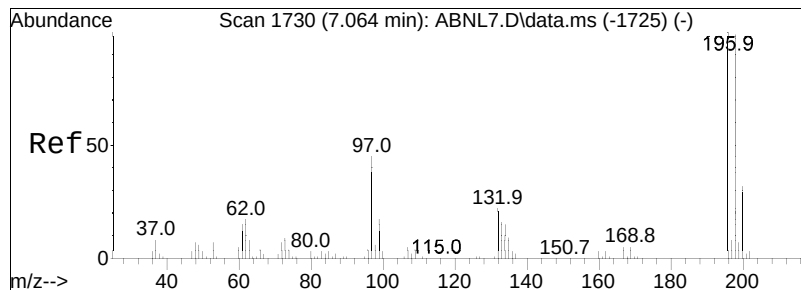




#46
 2,4,6-Trichlorophenol
 Concen: 1.79 ug/ml
 RT: 6.870 min Scan# 1716
 Delta R.T. -0.000 min
 Lab File: 081606-3.D
 Acq: 21 Jun 2025 9:35 am

Tgt Ion:	196	Resp:	16744
Ion Ratio	Lower	Upper	
196	100		
198	100.5	77.5	116.3
200	29.8	23.8	35.6





#47

2,4,5-Trichlorophenol

Concen: 1.94 ug/ml

RT: 6.898 min Scan# 1725

Delta R.T. -0.000 min

Lab File: 081606-3.D

Acq: 21 Jun 2025 9:35 am

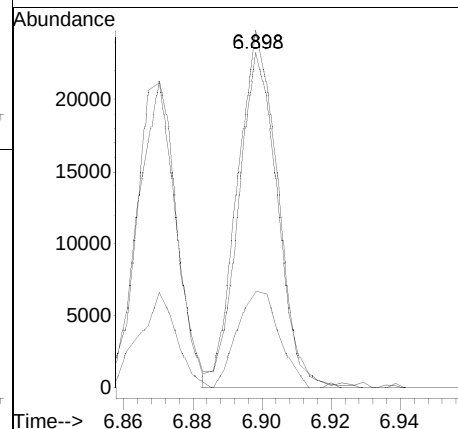
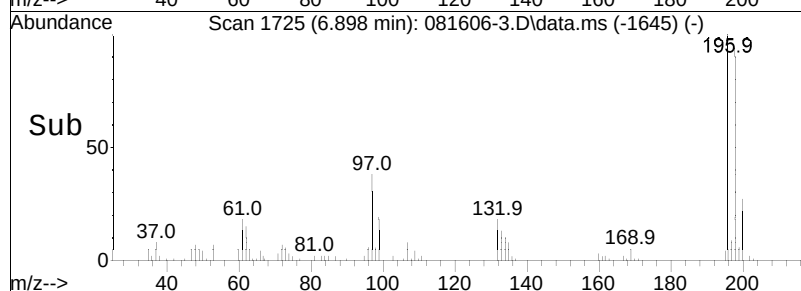
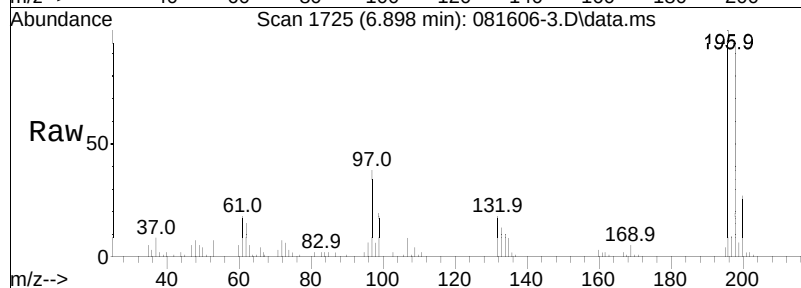
Tgt Ion:196 Resp: 20089

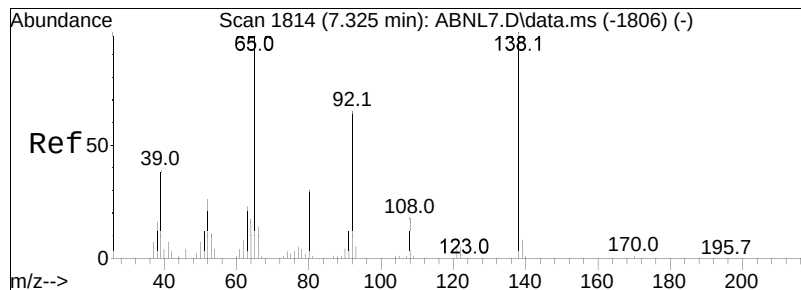
Ion Ratio Lower Upper

196 100

200 28.3 25.4 38.0

198 88.8 78.0 117.0





#50

2-Nitroaniline

Concen: 1.63 ug/ml

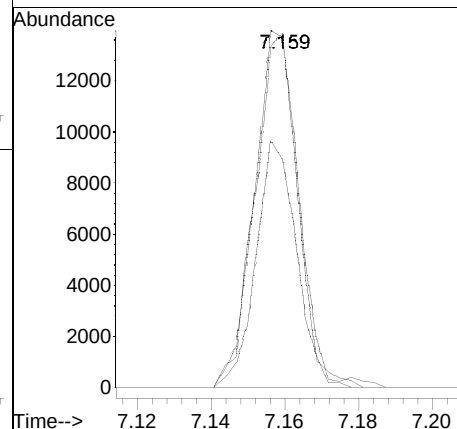
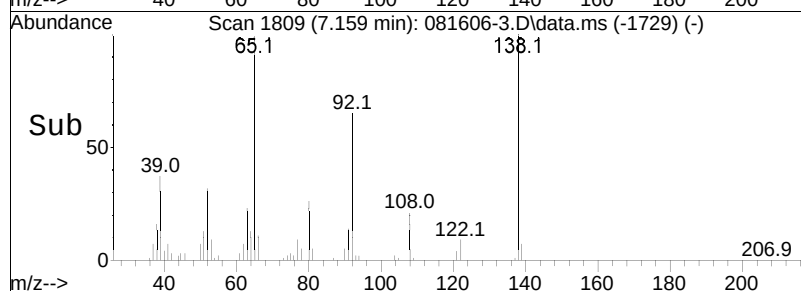
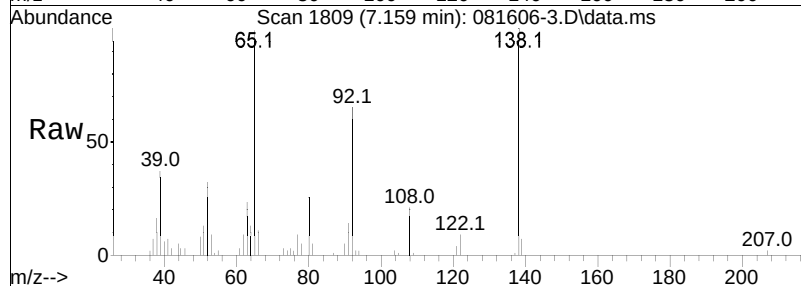
RT: 7.159 min Scan# 1809

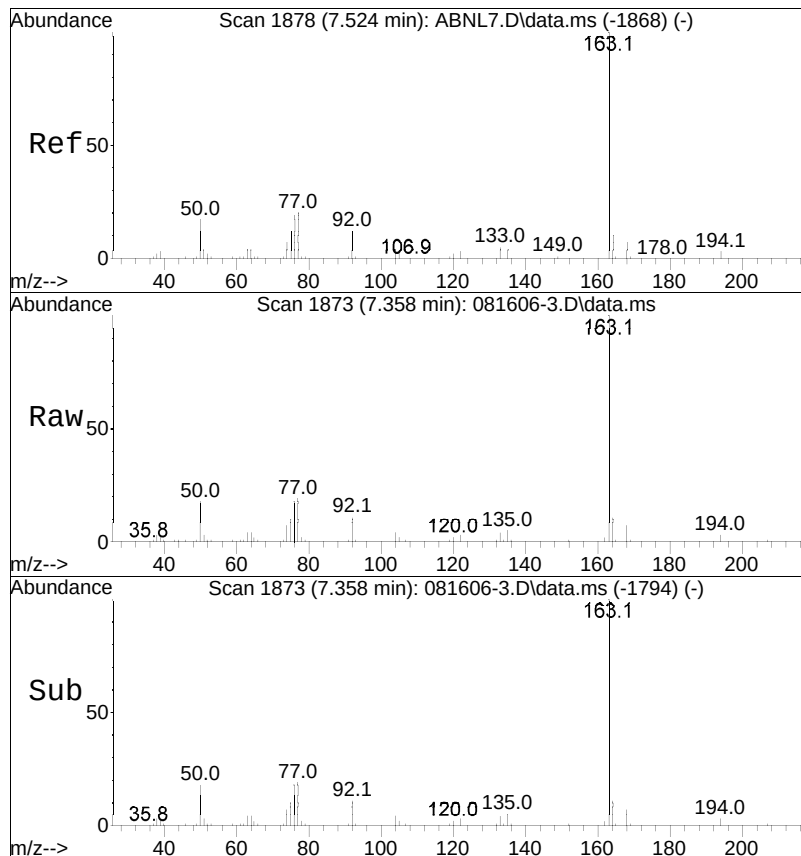
Delta R.T. -0.000 min

Lab File: 081606-3.D

Acq: 21 Jun 2025 9:35 am

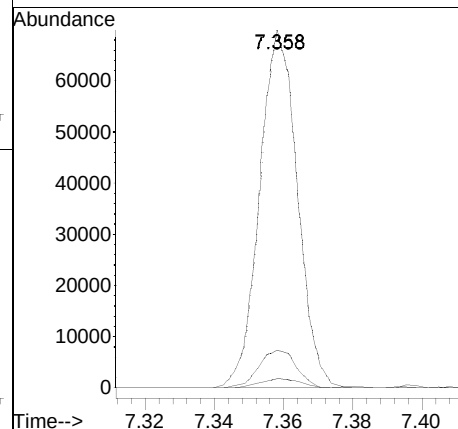
Tgt	Ion:138	Resp:	11067
Ion	Ratio	Lower	Upper
138	100		
92	66.1	53.5	80.3
65	103.5	86.3	129.5

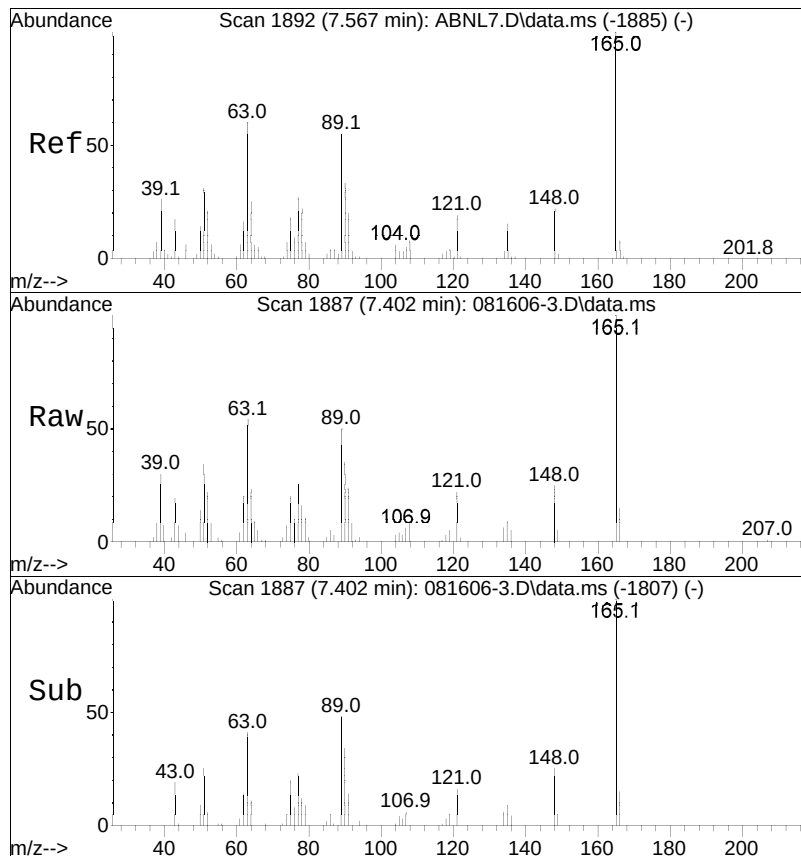




#53
 Dimethyl phthalate
 Concen: 1.64 ug/ml
 RT: 7.358 min Scan# 1873
 Delta R.T. -0.003 min
 Lab File: 081606-3.D
 Acq: 21 Jun 2025 9:35 am

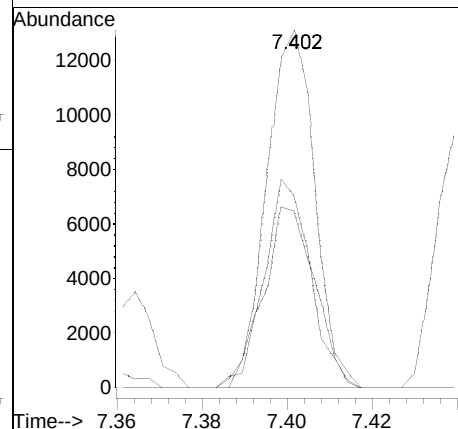
Tgt	Ion	Ratio	Resp	Lower	Upper
163	100		52462		
194	2.8			3.5	5.3#
164	10.6			7.9	11.9

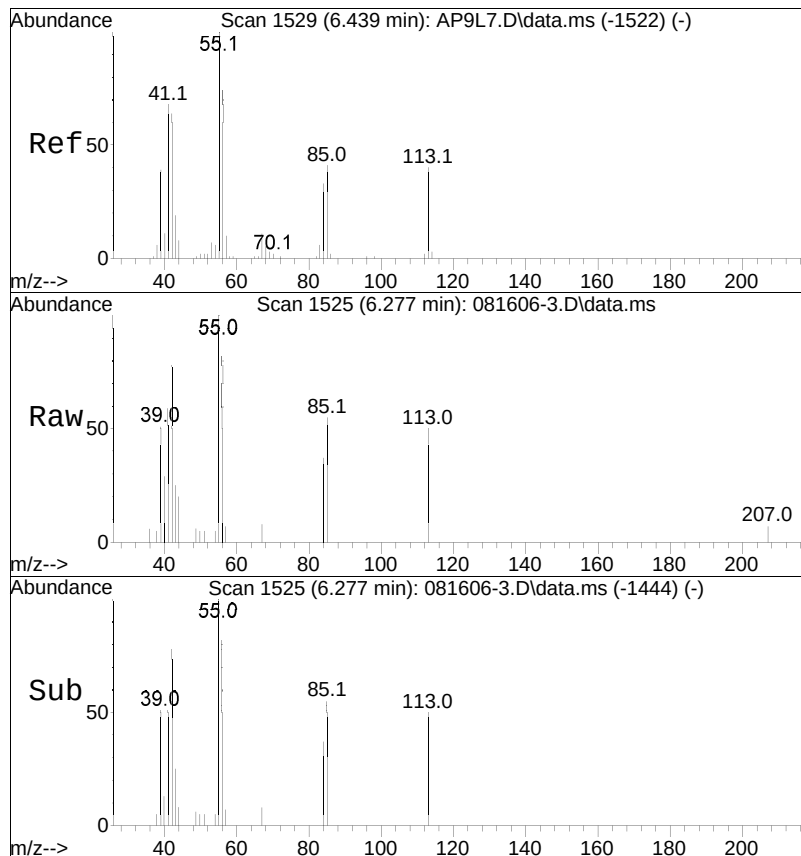




#55
 2,6-Dinitrotoluene
 Concen: 1.61 ug/ml
 RT: 7.402 min Scan# 1887
 Delta R.T. -0.000 min
 Lab File: 081606-3.D
 Acq: 21 Jun 2025 9:35 am

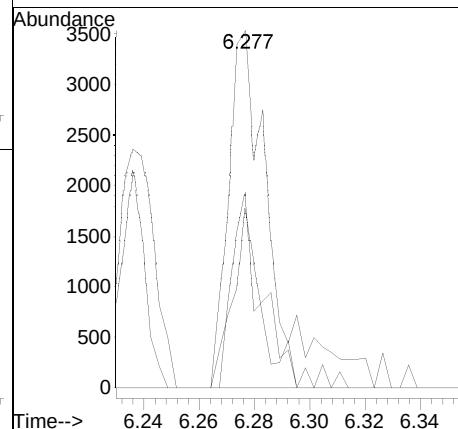
Tgt Ion:	165	Resp:	10318
Ion Ratio	Lower	Upper	
165	100		
89	53.8	54.2	81.2#
63	56.0	64.2	96.2#

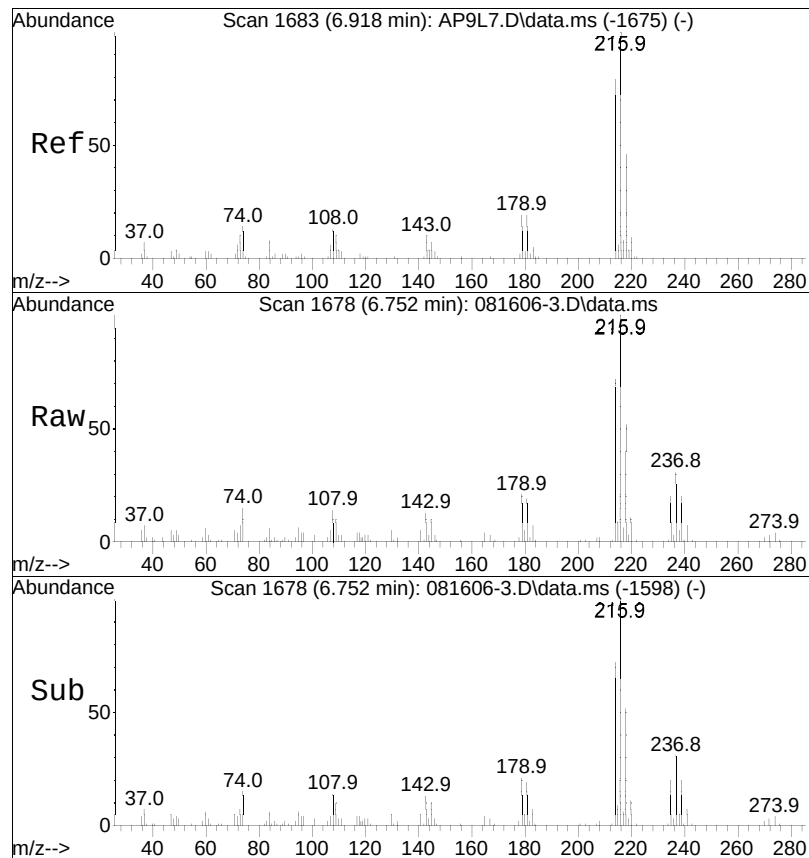




#62
 Caprolactam
 Concen: 0.71 ug/ml
 RT: 6.277 min Scan# 1525
 Delta R.T. 0.003 min
 Lab File: 081606-3.D
 Acq: 21 Jun 2025 9:35 am

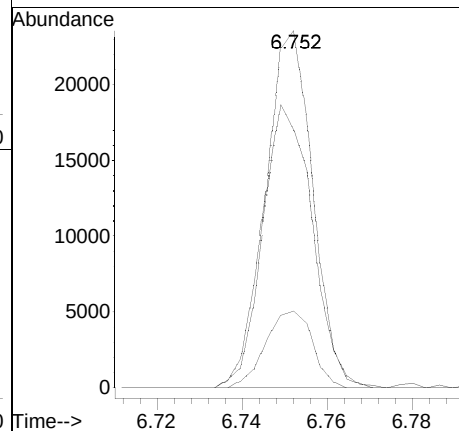
Tgt Ion:	55	Resp:	3818
Ion Ratio	Lower	Upper	
55	100		
85	37.8	19.8	29.6#
113	32.9	29.6	44.4

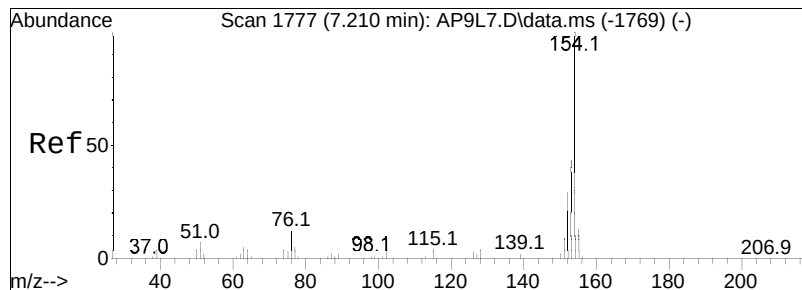




#63
 1,2,4,5-Tetrachlorobenzene
 Concen: 1.29 ug/ml
 RT: 6.752 min Scan# 1678
 Delta R.T. -0.000 min
 Lab File: 081606-3.D
 Acq: 21 Jun 2025 9:35 am

Tgt Ion:	216	Resp:	18198
Ion Ratio	Lower	Upper	
216	100		
214	82.6	63.7	95.5
179	21.3	19.0	28.6





#64

Biphenyl

Concen: 1.37 ug/ml

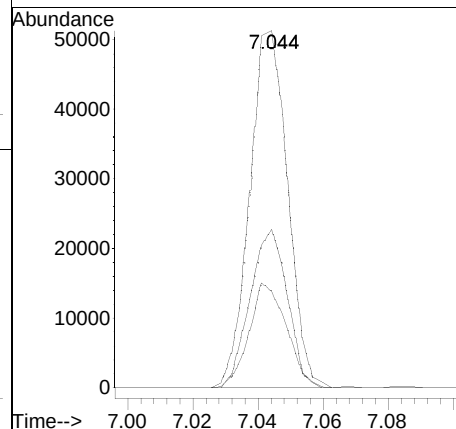
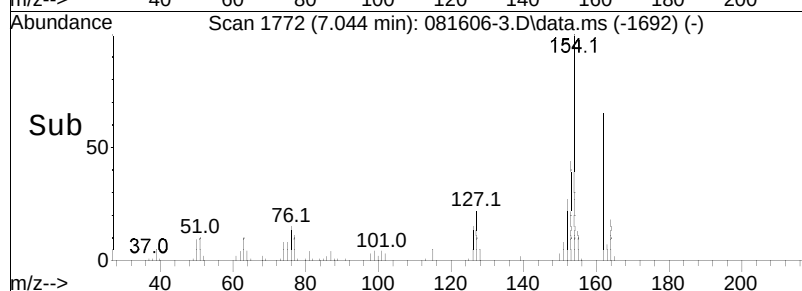
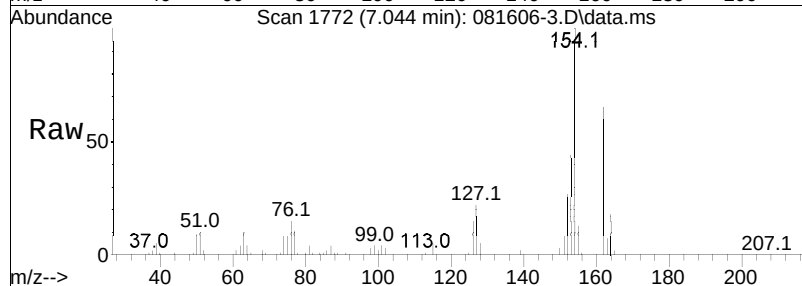
RT: 7.044 min Scan# 1772

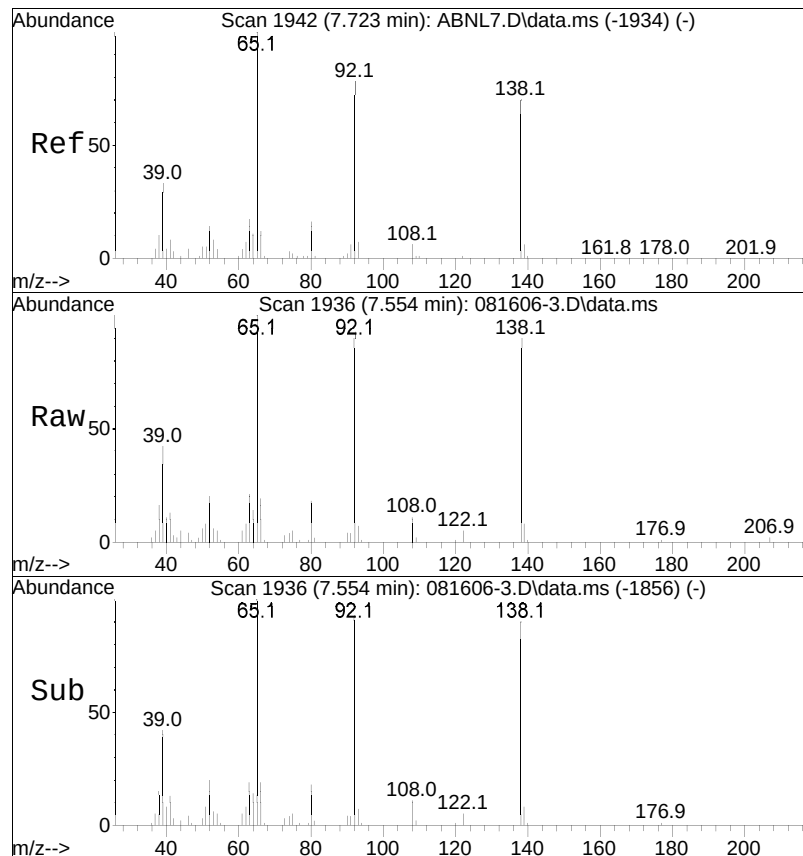
Delta R.T. -0.000 min

Lab File: 081606-3.D

Acq: 21 Jun 2025 9:35 am

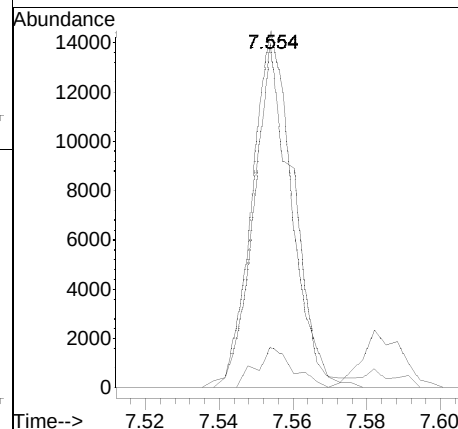
Tgt Ion:	154	Resp:	41227
Ion Ratio	Lower	Upper	
154	100		
153	43.8	32.3	48.5
152	29.0	22.5	33.7

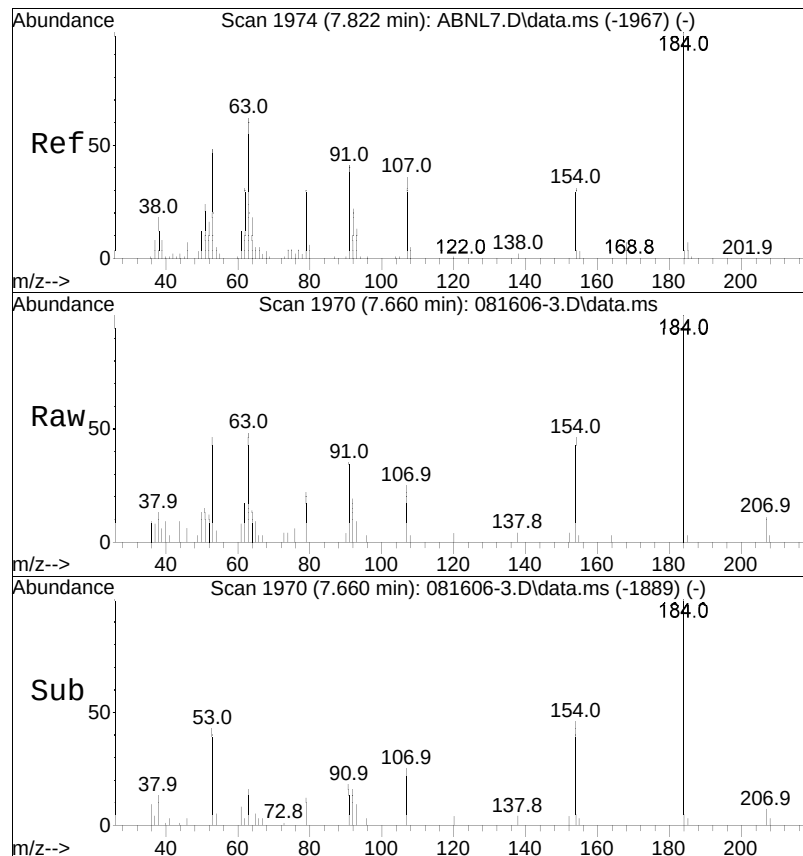




#66
 3-Nitroaniline
 Concen: 1.51 ug/ml
 RT: 7.554 min Scan# 1936
 Delta R.T. -0.000 min
 Lab File: 081606-3.D
 Acq: 21 Jun 2025 9:35 am

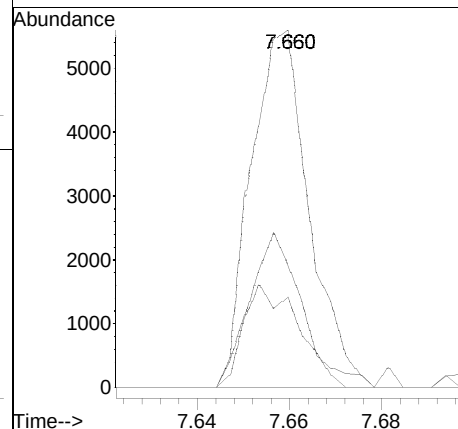
Tgt Ion:138	Resp:	10109
Ion Ratio	Lower	Upper
138 100		
92 107.6	93.4	140.2
108 11.1	9.5	14.3

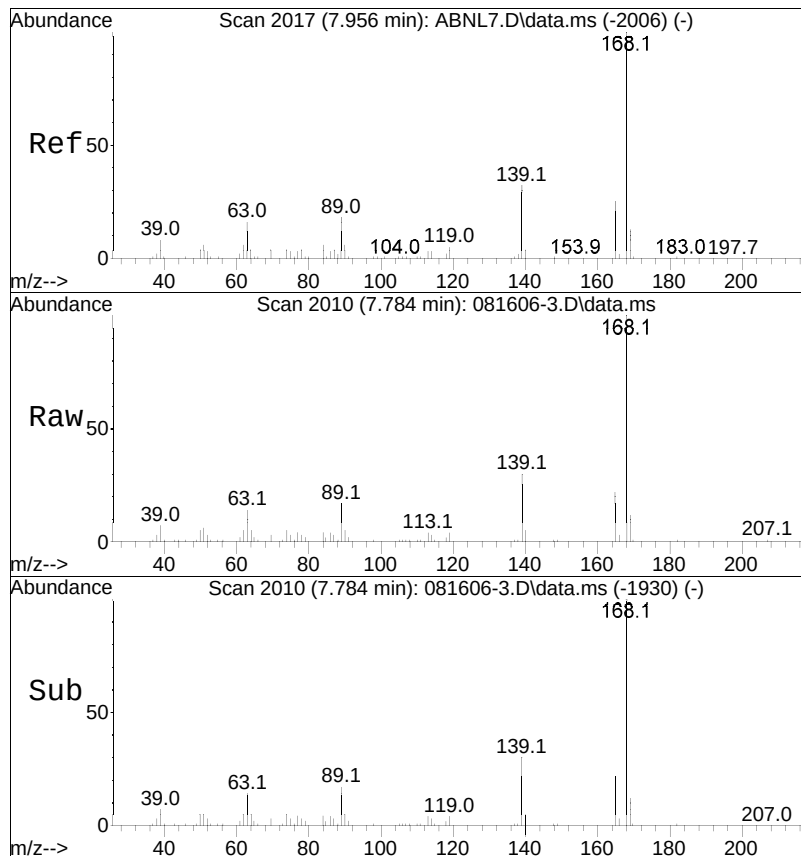




#68
 2,4-Dinitrophenol
 Concen: 1.23 ug/ml
 RT: 7.660 min Scan# 1970
 Delta R.T. 0.003 min
 Lab File: 081606-3.D
 Acq: 21 Jun 2025 9:35 am

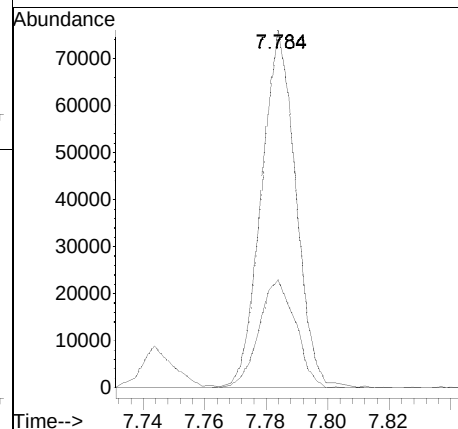
Tgt Ion:	184	Resp:	4850
Ion Ratio	Lower	Upper	
184	100		
107	27.4	37.7	56.5#
91	39.7	46.3	69.5#

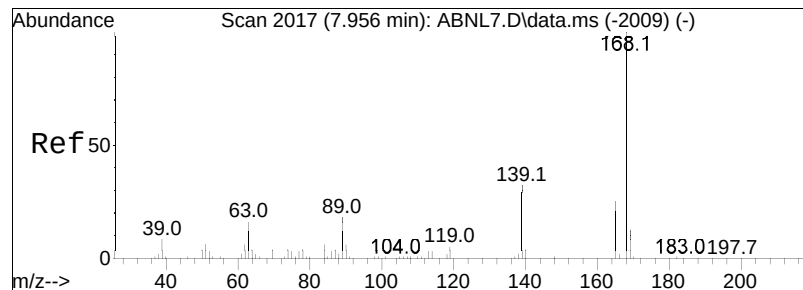




#69
 Dibenzofuran
 Concen: 1.27 ug/ml
 RT: 7.784 min Scan# 2010
 Delta R.T. -0.000 min
 Lab File: 081606-3.D
 Acq: 21 Jun 2025 9:35 am

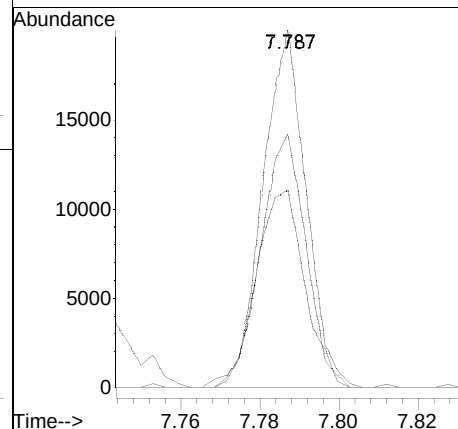
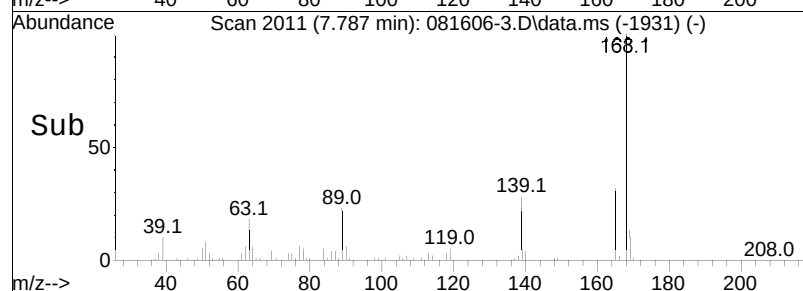
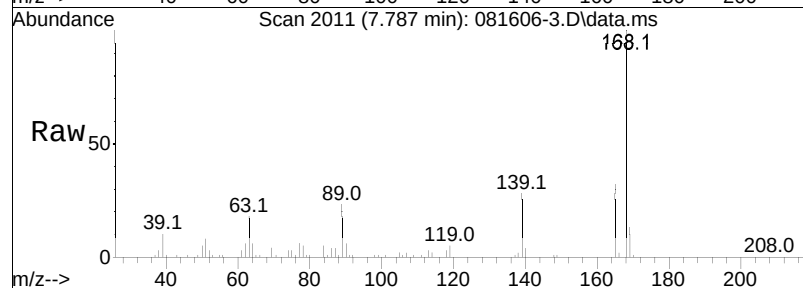
Tgt Ion	Ratio	Lower	Upper
168	100		
139	32.2	31.4	47.2

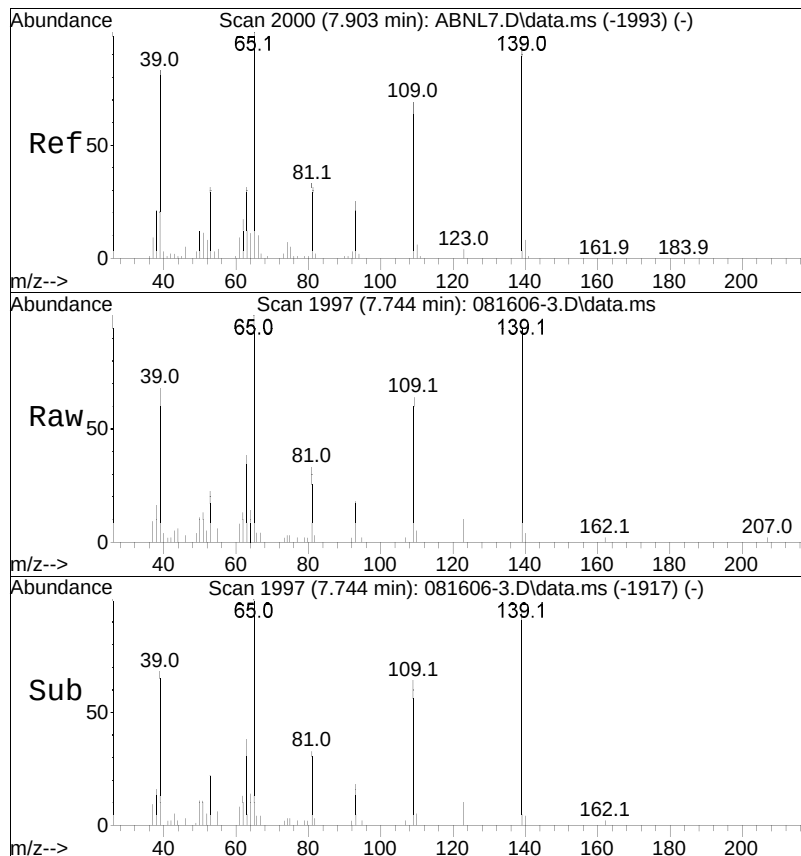




#70
 2,4-Dinitrotoluene
 Concen: 1.53 ug/ml
 RT: 7.787 min Scan# 2011
 Delta R.T. -0.000 min
 Lab File: 081606-3.D
 Acq: 21 Jun 2025 9:35 am

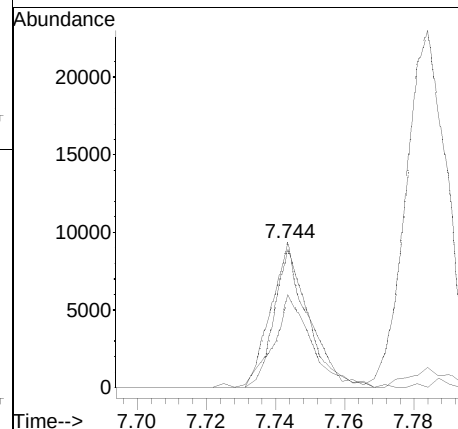
Tgt	Ion	Ratio	Resp	Lower	Upper
165	100		15103		
89	74.3	72.0	108.0		
63	62.5	52.7	79.1		

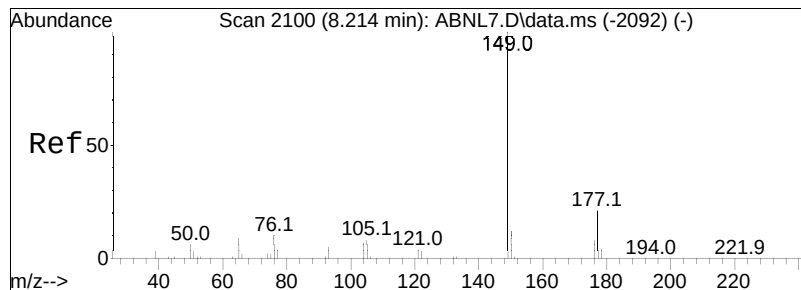




#71
 4-Nitrophenol
 Concen: 1.11 ug/ml
 RT: 7.744 min Scan# 1997
 Delta R.T. -0.000 min
 Lab File: 081606-3.D
 Acq: 21 Jun 2025 9:35 am

Tgt	Ion: 65	Resp:	6755
Ion	Ratio	Lower	Upper
65	100		
109	65.3	47.4	71.2
139	97.0	76.6	115.0





#74

Diethyl phthalate

Concen: 1.46 ug/ml

RT: 8.048 min Scan# 2095

Delta R.T. -0.000 min

Lab File: 081606-3.D

Acq: 21 Jun 2025 9:35 am

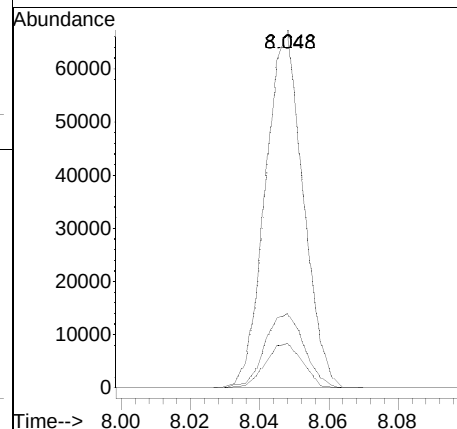
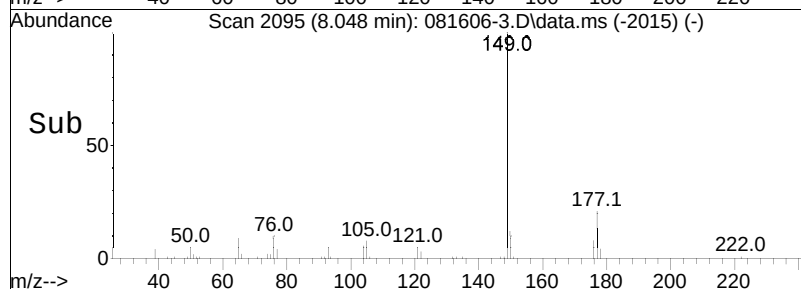
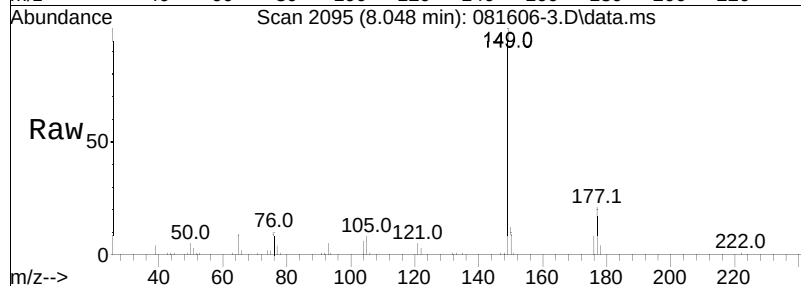
Tgt Ion:149 Resp: 50432

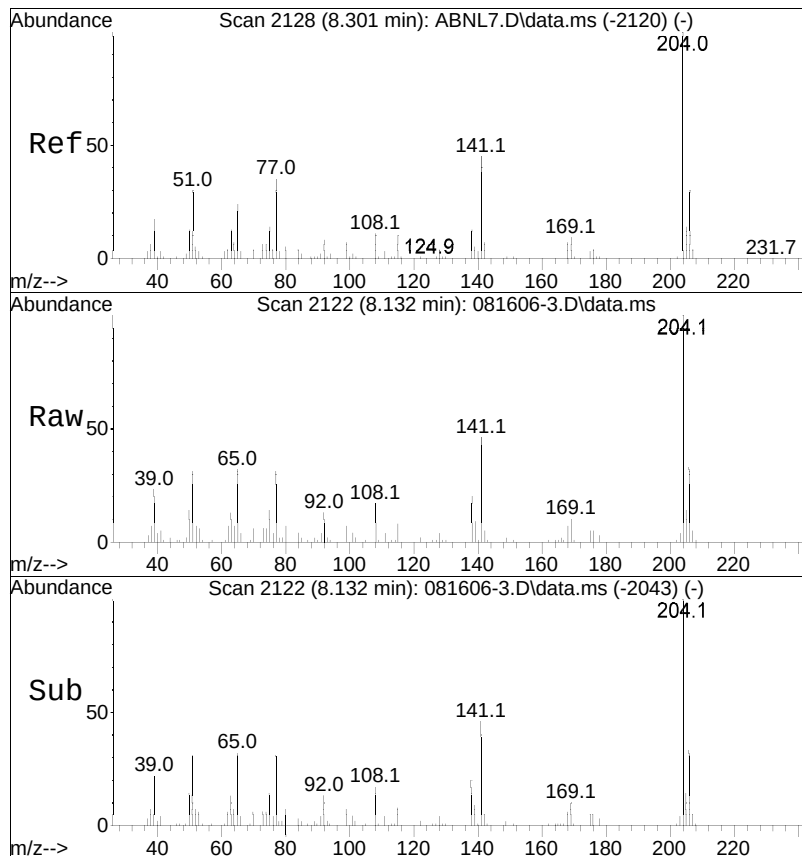
Ion Ratio Lower Upper

149 100

177 21.9 16.1 24.1

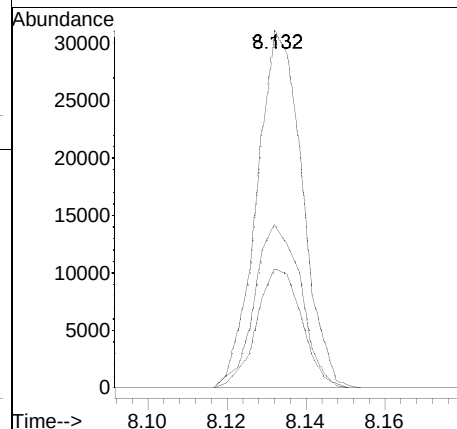
150 12.6 9.4 14.2

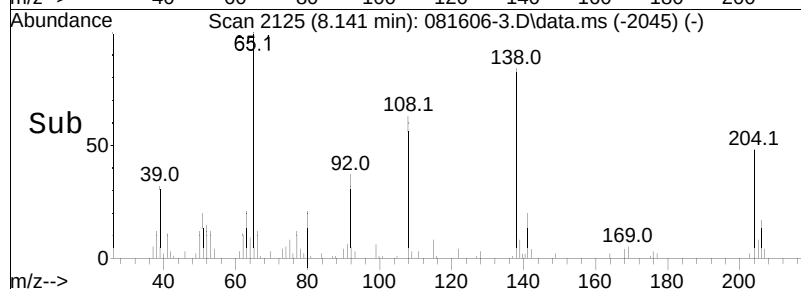
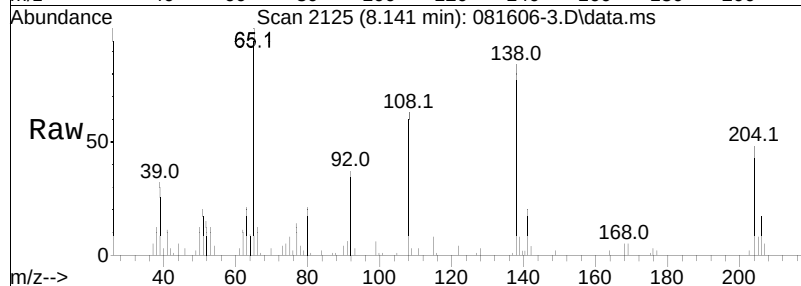
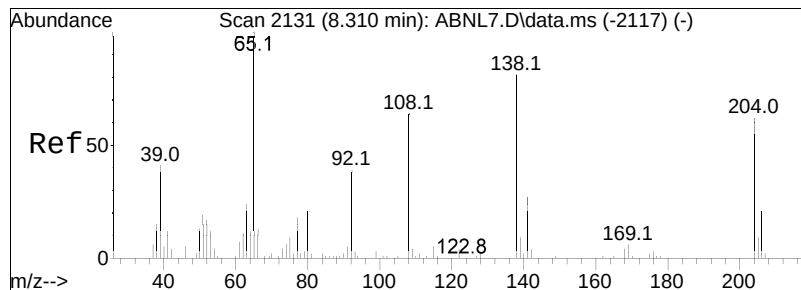




#76
 4-Chlorophenyl phenyl ether
 Concen: 1.33 ug/ml
 RT: 8.132 min Scan# 2122
 Delta R.T. -0.003 min
 Lab File: 081606-3.D
 Acq: 21 Jun 2025 9:35 am

Tgt	Ion	Ratio	Resp	Lower	Upper
204	100		24701		
206	33.3	25.8		38.6	
141	46.5	53.6		80.4#	





#77

4-Nitroaniline

Concen: 1.67 ug/ml

RT: 8.141 min Scan# 2125

Delta R.T. -0.000 min

Lab File: 081606-3.D

Acq: 21 Jun 2025 9:35 am

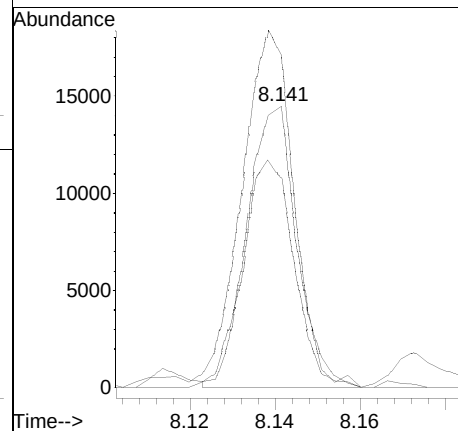
Tgt Ion:138 Resp: 11708

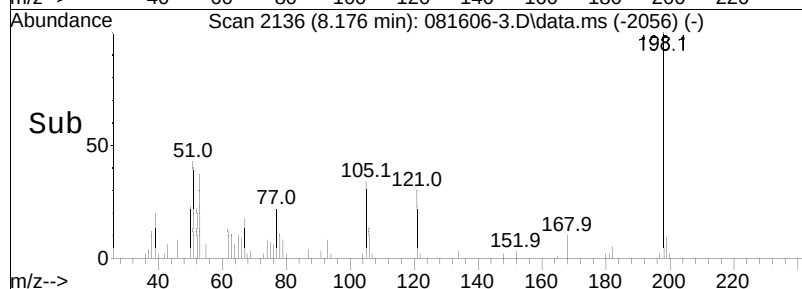
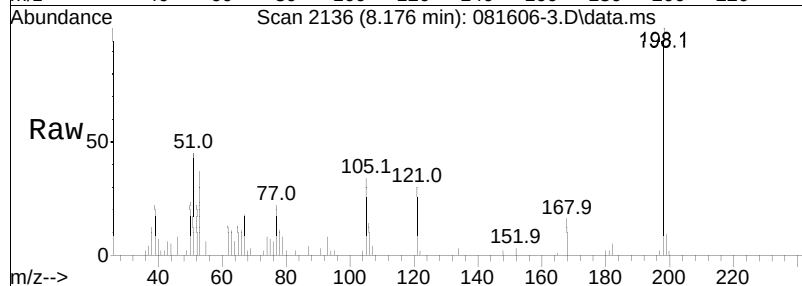
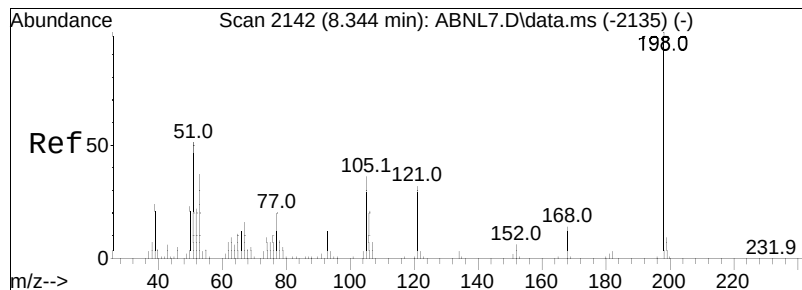
Ion Ratio Lower Upper

138 100

108 83.9 52.1 78.1#

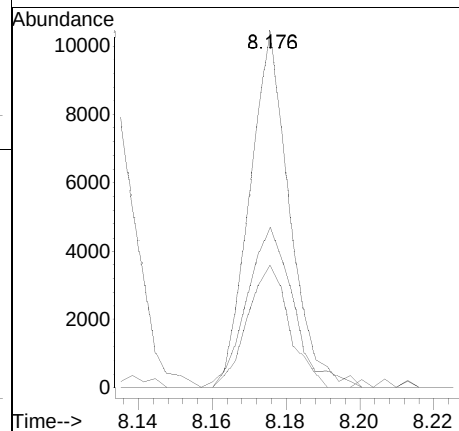
65 133.0 115.0 172.6

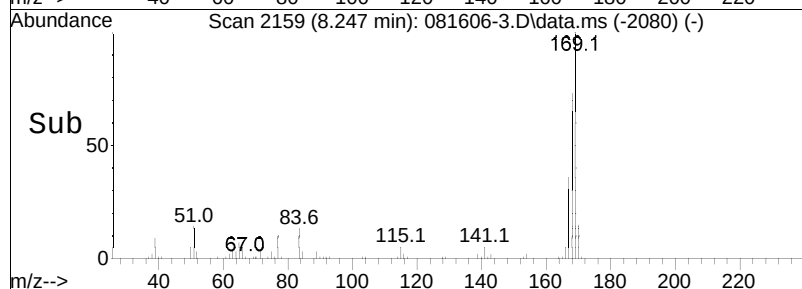
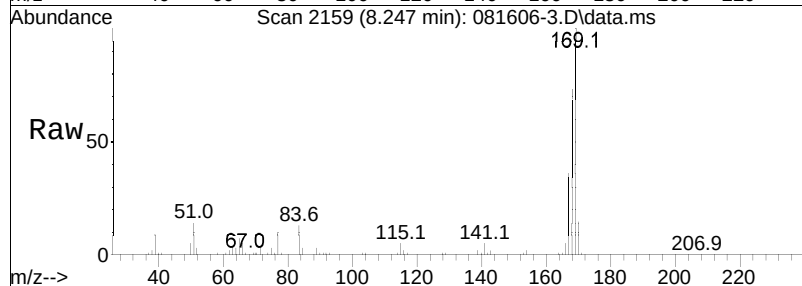
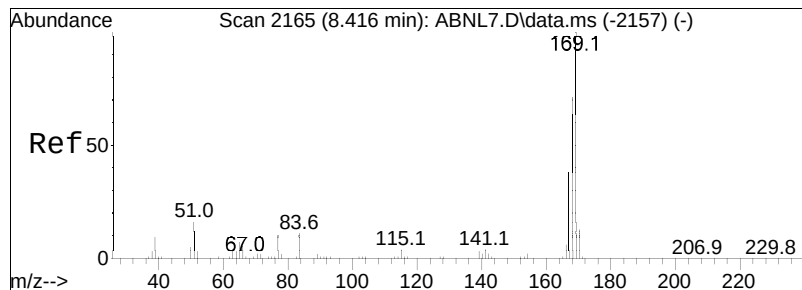




#78
 4,6-Dinitro-o-cresol
 Concen: 1.29 ug/ml
 RT: 8.176 min Scan# 2136
 Delta R.T. -0.000 min
 Lab File: 081606-3.D
 Acq: 21 Jun 2025 9:35 am

Tgt Ion	Ratio	Lower	Upper
198	100		
51	52.5	76.0	114.0#
105	36.2	45.6	68.4#





#79

NDPA/DPA

Concen: 1.51 ug/ml

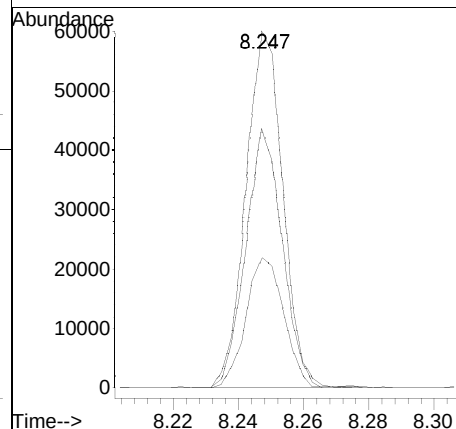
RT: 8.247 min Scan# 2159

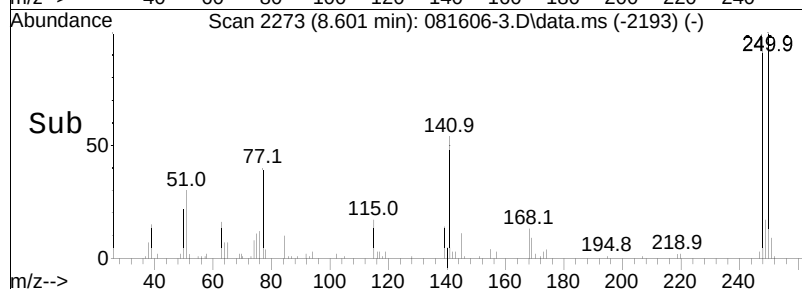
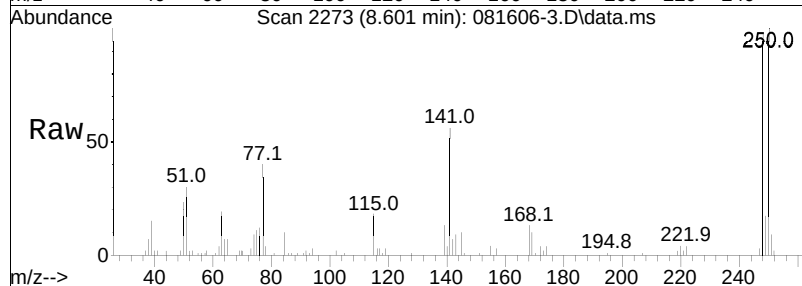
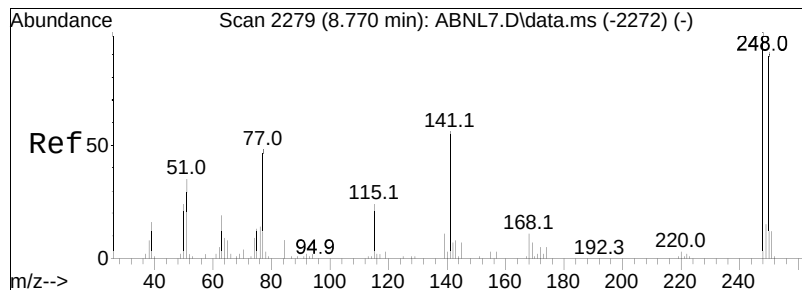
Delta R.T. -0.003 min

Lab File: 081606-3.D

Acq: 21 Jun 2025 9:35 am

Tgt Ion:	169	Resp:	47237
Ion Ratio	Lower	Upper	
169	100		
168	71.9	54.0	81.0
167	37.6	28.6	42.8





#82

4-Bromophenyl phenyl ether

Concen: 1.47 ug/ml

RT: 8.601 min Scan# 2273

Delta R.T. -0.000 min

Lab File: 081606-3.D

Acq: 21 Jun 2025 9:35 am

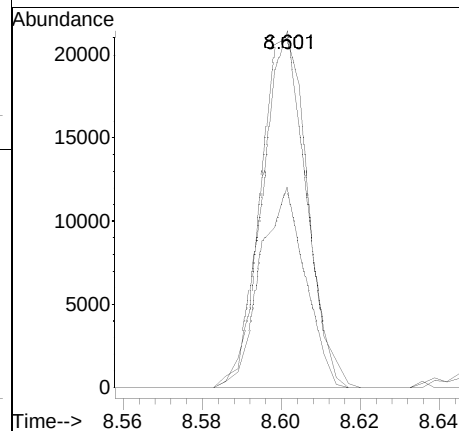
Tgt Ion: 248 Resp: 17297

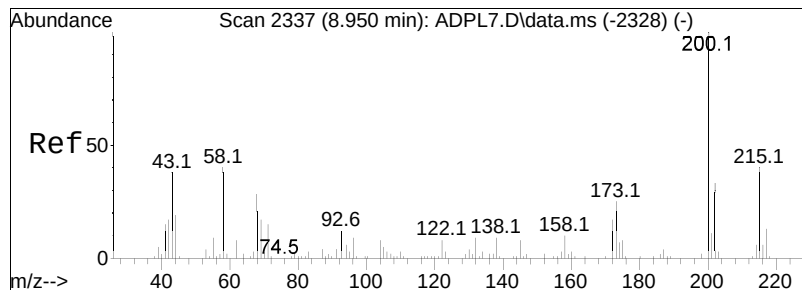
Ion Ratio Lower Upper

248 100

141 54.8 76.6 114.8#

250 94.5 77.3 115.9





#89

Atrazine

Concen: 1.72 ug/ml

RT: 8.785 min Scan# 2332

Delta R.T. -0.000 min

Lab File: 081606-3.D

Acq: 21 Jun 2025 9:35 am

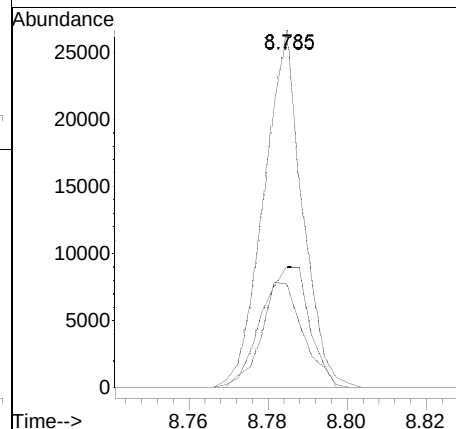
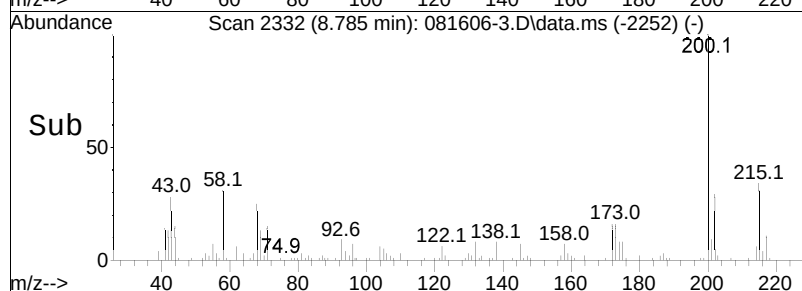
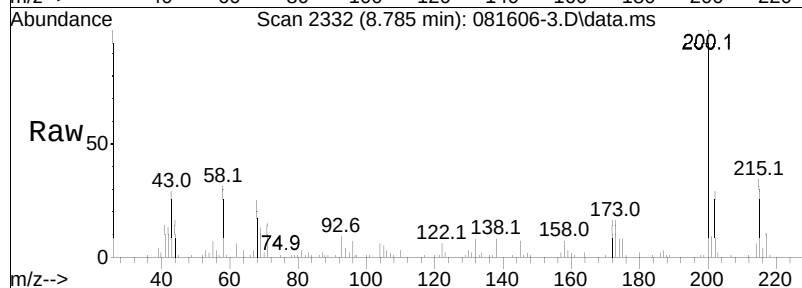
Tgt Ion:200 Resp: 17859

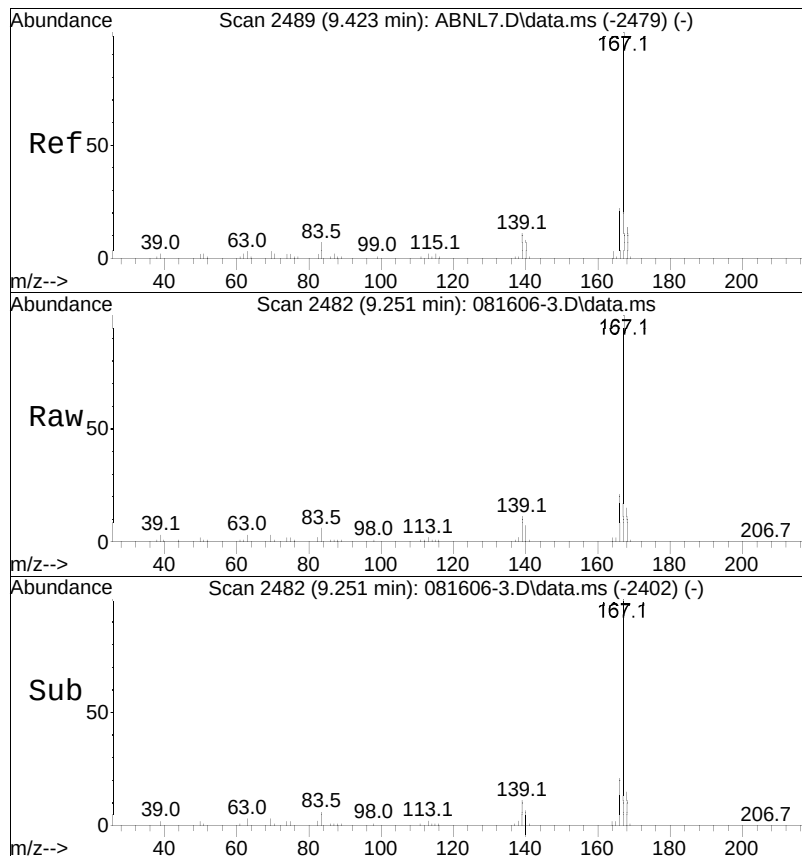
Ion Ratio Lower Upper

200 100

202 32.4 25.8 38.6

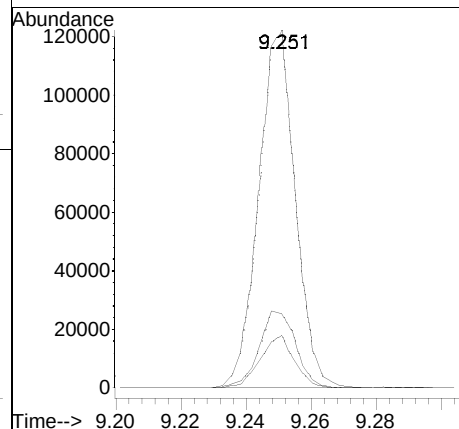
215 42.0 40.2 60.4

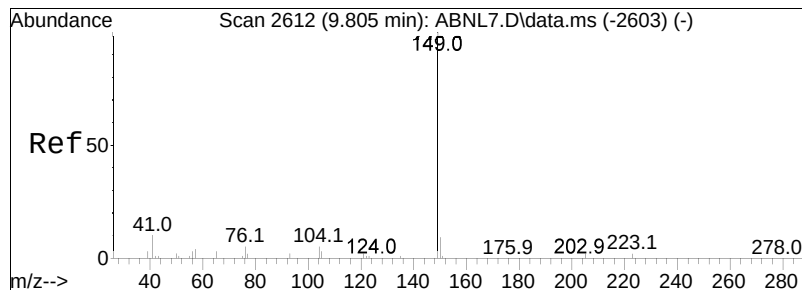




#93
 Carbazole
 Concen: 1.53 ug/ml
 RT: 9.251 min Scan# 2482
 Delta R.T. -0.000 min
 Lab File: 081606-3.D
 Acq: 21 Jun 2025 9:35 am

Tgt Ion	Ratio	Lower	Upper
167	100		
168	13.9	10.6	15.8
166	21.7	17.4	26.0





#94

Di-n-butylphthalate

Concen: 1.42 ug/ml

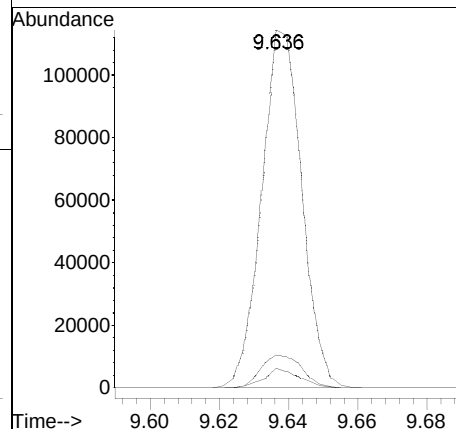
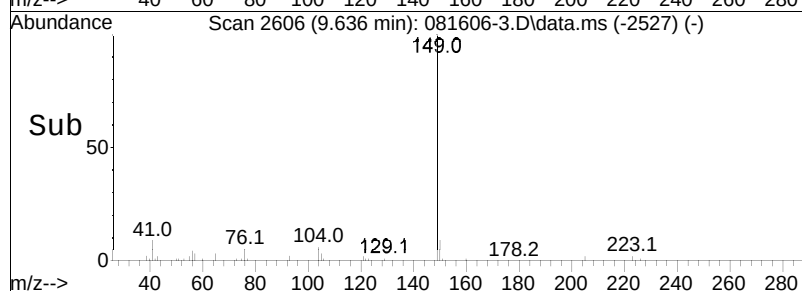
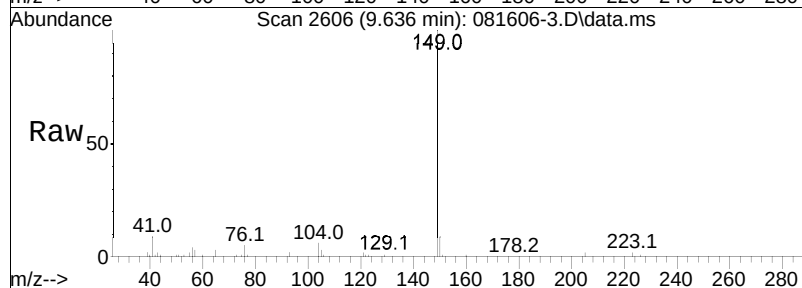
RT: 9.636 min Scan# 2606

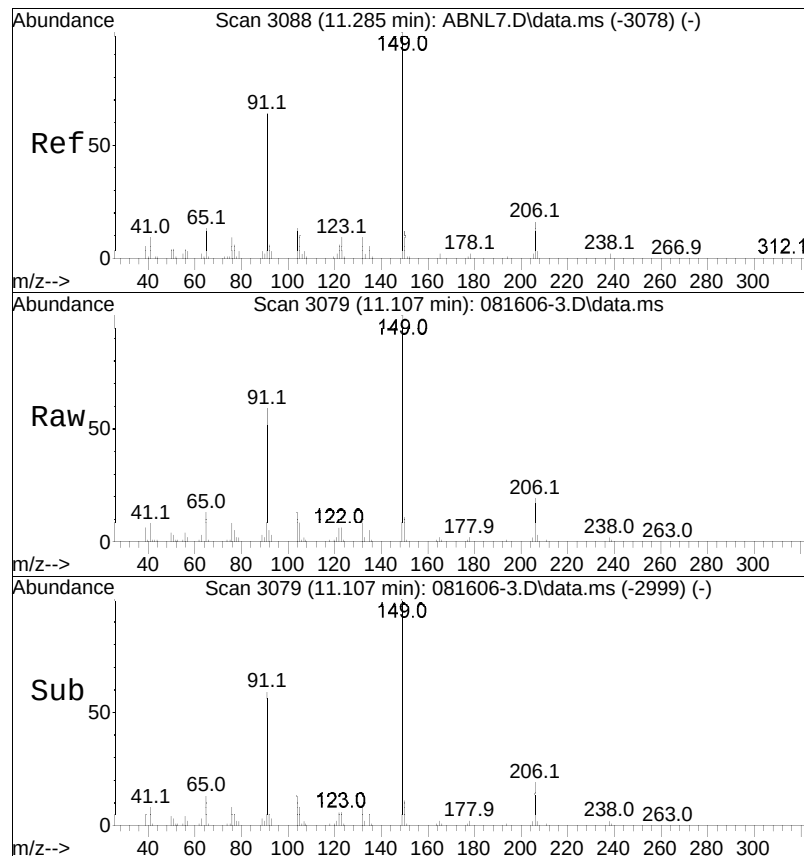
Delta R.T. -0.003 min

Lab File: 081606-3.D

Acq: 21 Jun 2025 9:35 am

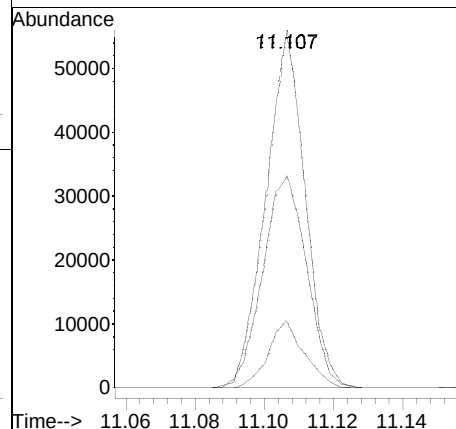
Tgt Ion:	149	Resp:	91169
Ion Ratio	Lower	Upper	
149	100		
150	9.4	7.0	10.6
104	5.0	4.5	6.7

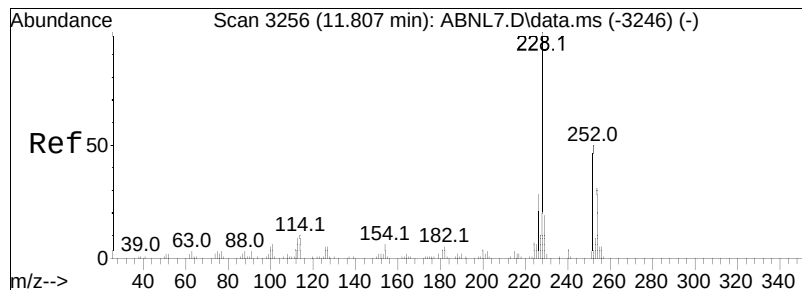




#99
 Butyl benzyl phthalate
 Concen: 1.57 ug/ml
 RT: 11.107 min Scan# 3079
 Delta R.T. -0.000 min
 Lab File: 081606-3.D
 Acq: 21 Jun 2025 9:35 am

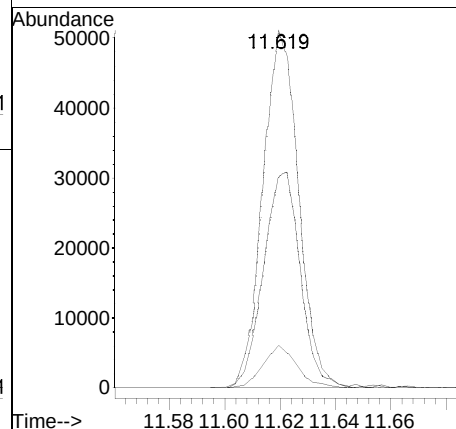
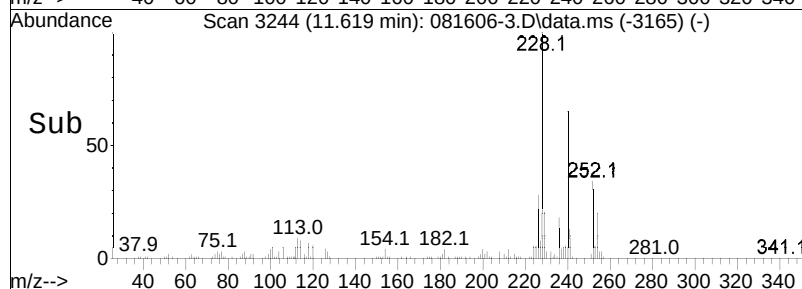
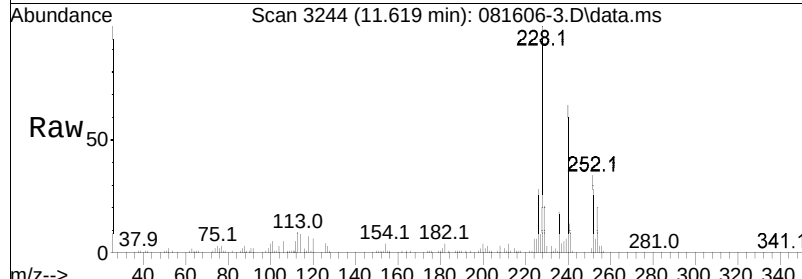
Tgt Ion:	149	Resp:	43607
Ion Ratio	Lower	Upper	
149	100		
91	66.7	63.3	94.9
206	17.4	13.9	20.9

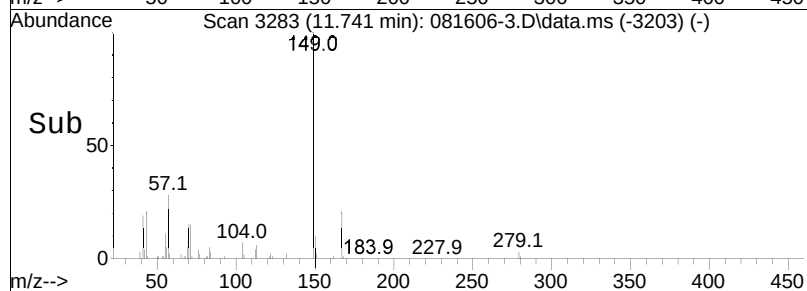
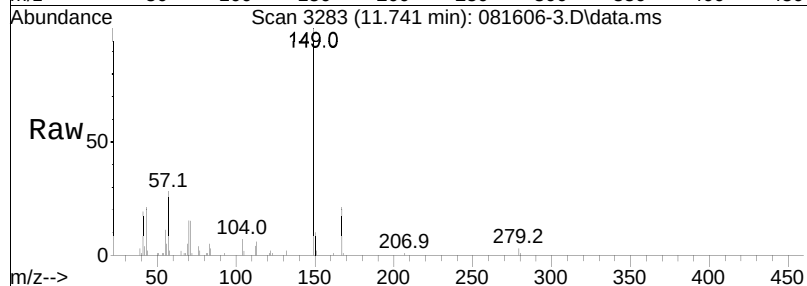
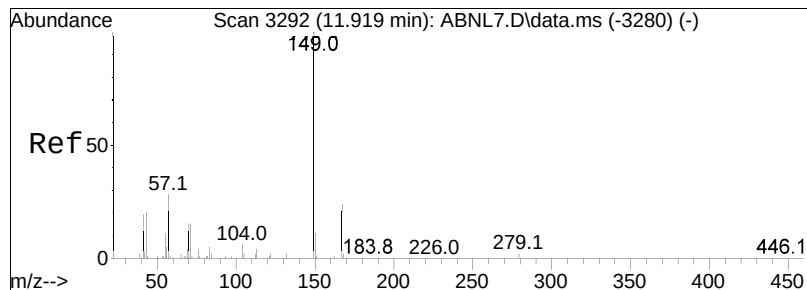




#108
 3,3'-Dichlorobenzidine
 Concen: 1.35 ug/ml
 RT: 11.619 min Scan# 3244
 Delta R.T. -0.003 min
 Lab File: 081606-3.D
 Acq: 21 Jun 2025 9:35 am

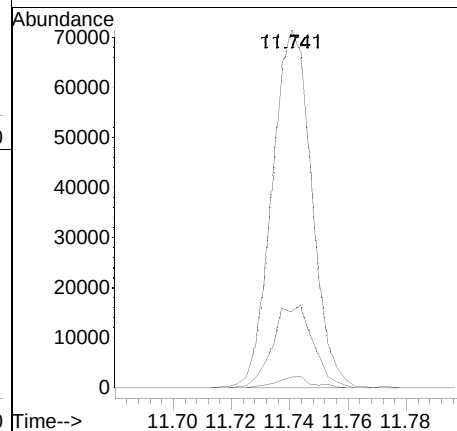
Tgt Ion	Ratio	Lower	Upper
252	100		
126	11.5	14.5	21.7#
254	62.0	51.2	76.8

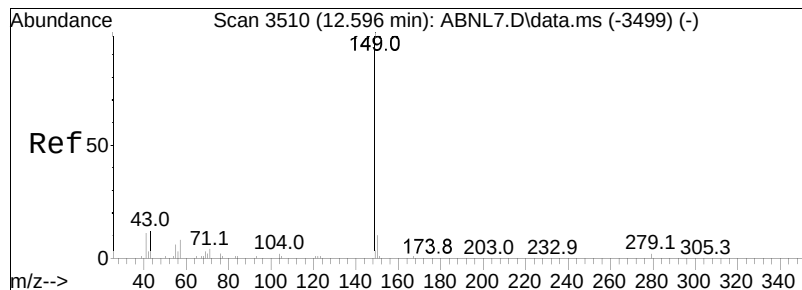




#110
 Bis(2-ethylhexyl)phthalate
 Concen: 1.39 ug/ml
 RT: 11.741 min Scan# 3283
 Delta R.T. -0.000 min
 Lab File: 081606-3.D
 Acq: 21 Jun 2025 9:35 am

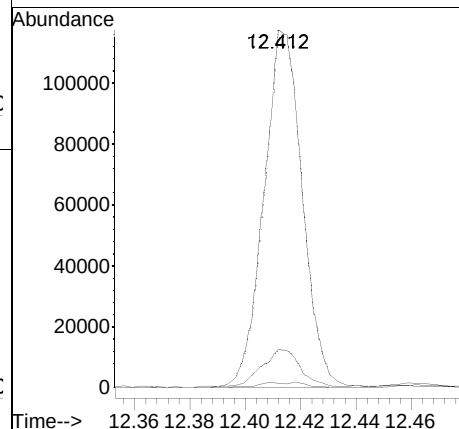
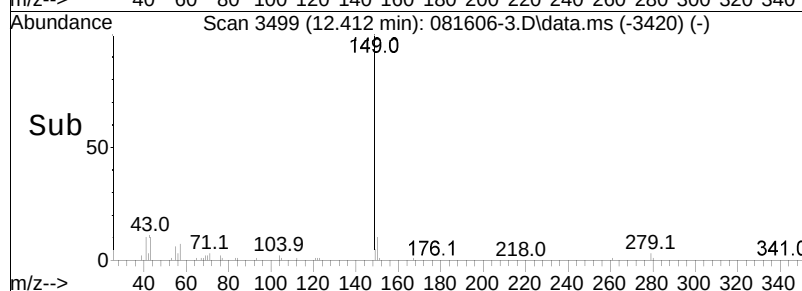
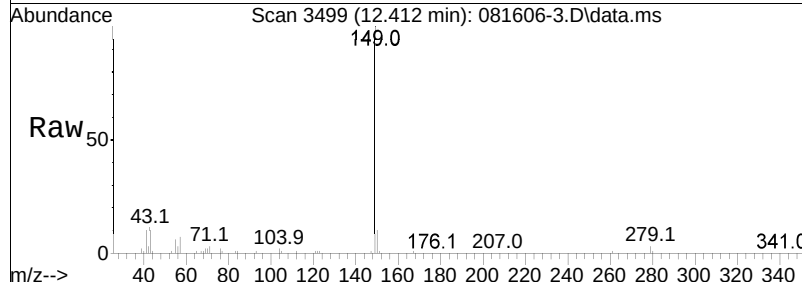
Tgt Ion	Ratio	Lower	Upper
149	100		
167	23.6	22.1	33.1
279	2.8	3.0	4.4





#111
 Di-n-octylphthalate
 Concen: 1.43 ug/ml
 RT: 12.412 min Scan# 3499
 Delta R.T. -0.003 min
 Lab File: 081606-3.D
 Acq: 21 Jun 2025 9:35 am

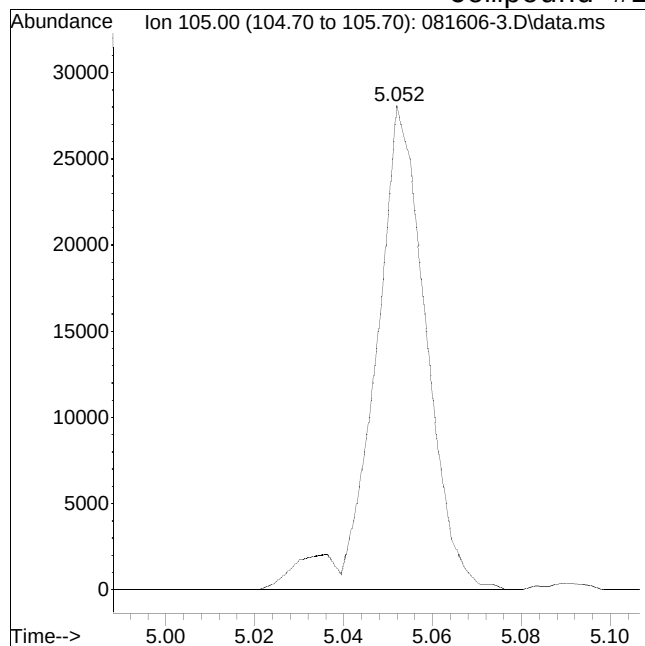
Tgt Ion	Ratio	Lower	Upper
149	100		
43	11.1	18.8	28.2#
167	1.5	1.3	1.9



Manual Integration Report

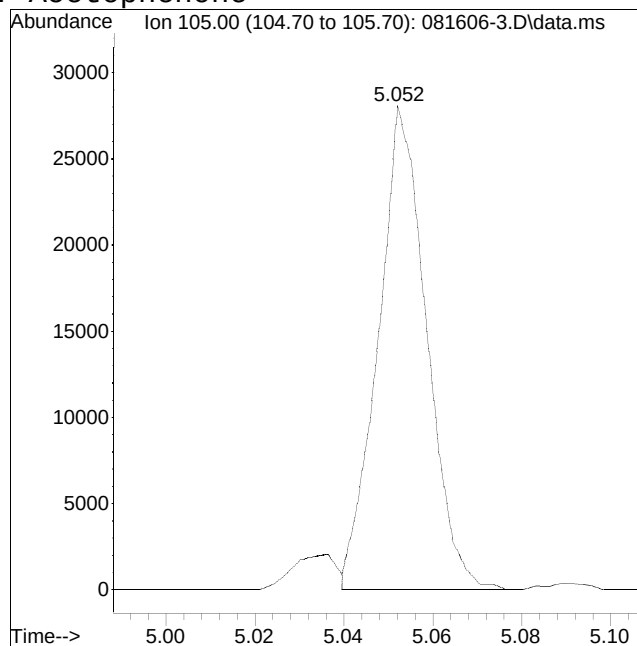
Data Path : I:\8270\Dakota\250621RVT\ QMethod : FS250416RVT_Dakota.m
Data File : 081606-3.D Operator : Dakota:smz
Date Inj'd : 6/21/2025 9:35 am Instrument : Dakota
Sample : WG2081606-3,32,,gmr Quant Date : 6/21/2025 9:54 am

Compound #29: Acetophenone



Original Peak Response = 22648

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 21184 M6

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250621RVT\
 Data File : 081606-4.D
 Acq On : 21 Jun 2025 1:41 pm
 Operator : Dakota:smz
 Sample : WG2081606-4,32,,gmr
 Misc : WG2081719,WG2081606,ical22203
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 26 15:44:57 2025
 Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sat Jun 21 07:32:38 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250621RVT\ABN0621.D
 : 2 - I:\8270\Dakota\250621RVT\ADP0621.D
 : 3 - I:\8270\Dakota\250621RVT\AP90621.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.654	152	36323	4.000	ug/ml	0.00
Standard Area 1 = 34284			Recovery =	105.95%		
27) IS2_1,4-Dichlorobenzen...	4.654	152	36323	4.000	ug/ml	0.00
Standard Area 3 = 33532			Recovery =	108.32%		
37) IS1_Naphthalene-d8	5.885	136	127920	4.000	ug/ml	# 0.00
Standard Area 1 = 122540			Recovery =	104.39%		
57) IS2_Naphthalene-d8	5.885	136	127920	4.000	ug/ml	# 0.00
Standard Area 3 = 118622			Recovery =	107.84%		
65) IS1_Acenaphthene-d10	7.585	164	100291	4.000	ug/ml	0.00
Standard Area 1 = 91691			Recovery =	109.38%		
85) IS2_Acenaphthene-d10	7.585	164	100291	4.000	ug/ml	0.00
Standard Area 3 = 90024			Recovery =	111.40%		
88) IS3_Acenaphthene-d10	7.585	164	100291	4.000	ug/ml	0.00
Standard Area 2 = 78881			Recovery =	127.14%		
90) IS1_Phenanthrene-d10	9.012	188	235226	4.000	ug/ml	0.00
Standard Area 1 = 216771			Recovery =	108.51%		
102) IS3_Phenanthrene-d10	9.012	188	235226	4.000	ug/ml	0.00
Standard Area 2 = 198240			Recovery =	118.66%		
106) IS1_Chrysene-d12	11.629	240	301379	4.000	ug/ml	# 0.00
Standard Area 1 = 275522			Recovery =	109.38%		
115) IS1_Perylene-d12	13.080	264	358619	4.000	ug/ml	0.00
Standard Area 1 = 328421			Recovery =	109.19%		
System Monitoring Compounds						
4) 2-Fluorophenol	3.383	112	9869	1.058	ug/ml	0.00
Spiked Amount 2.000			Recovery =	52.90%		
7) Phenol-d6	4.337	99	10022	0.871	ug/ml	0.00
Spiked Amount 2.000			Recovery =	43.55%		
19) Nitrobenzene-d5	5.195	82	8648	0.701	ug/ml	0.00
Spiked Amount 1.000			Recovery =	70.10%		
48) 2-Fluorobiphenyl	6.951	172	24589	0.738	ug/ml	0.00
Spiked Amount 1.000			Recovery =	73.80%		
81) 2,4,6-Tribromophenol	8.347	330	11548	1.956	ug/ml	0.00
Spiked Amount 2.000			Recovery =	97.80%		
98) 4-Terphenyl-d14	10.582	244	51428	0.818	ug/ml	0.00
Spiked Amount 1.000			Recovery =	81.80%		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250621RVT\
 Data File : 081606-4.D
 Acq On : 21 Jun 2025 1:41 pm
 Operator : Dakota:smz
 Sample : WG2081606-4,32,,gmr
 Misc : WG2081719,WG2081606,ical22203
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 26 15:44:57 2025
 Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sat Jun 21 07:32:38 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250621RVT\ABN0621.D
 : 2 - I:\8270\Dakota\250621RVT\ADP0621.D
 : 3 - I:\8270\Dakota\250621RVT\AP90621.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Target Compounds						Qvalue
6) 2-Chlorophenol	4.449	128	15097	1.463	ug/ml	98
8) Phenol	4.347	94	11240	0.802	ug/ml#	60
14) Bis(2-chloroisopropyl)...	4.956	45	25588	1.317	ug/ml#	79
15) 2-Methylphenol	4.934	108	13091	1.422	ug/ml	97
17) n-Nitrosodi-n-propylamine	5.074	70	12847	1.559	ug/ml#	84
18) 3-Methylphenol/4-Methy...	5.093	108	14423	1.463	ug/ml	94
20) Nitrobenzene	5.211	77	17059	1.413	ug/ml	96
21) Isophorone	5.453	82	30832	1.391	ug/ml	94
22) 2-Nitrophenol	5.528	139	8276	1.554	ug/ml	94
23) 2,4-Dimethylphenol	5.602	107	12658	1.192	ug/ml	99
24) Bis(2-chloroethoxy)met...	5.686	93	19115	1.464	ug/ml#	91
25) 2,4-Dichlorophenol	5.764	162	19169	1.741	ug/ml#	93
28) Benzaldehyde	4.222	105	12659	1.661	ug/ml	99
29) Acetophenone	5.052	105	22896	1.702	ug/ml#	87
40) 4-Chloroaniline	5.978	65	5896	1.316	ug/ml	94
42) p-Chloro-m-cresol	6.473	107	15829	1.739	ug/ml	90
45) Hexachlorocyclopentadiene	6.752	237	5794	0.531	ug/ml	97
46) 2,4,6-Trichlorophenol	6.867	196	16588	1.757	ug/ml	95
47) 2,4,5-Trichlorophenol	6.898	196	21712	2.073	ug/ml	94
50) 2-Nitroaniline	7.156	138	12260	1.790	ug/ml	90
53) Dimethyl phthalate	7.358	163	55706	1.722	ug/ml#	97
55) 2,6-Dinitrotoluene	7.402	165	10714	1.655	ug/ml#	80
62) Caprolactam	6.277	55	3312	0.612	ug/ml#	82
63) 1,2,4,5-Tetrachloroben...	6.752	216	19913	1.403	ug/ml#	97
64) Biphenyl	7.044	154	44250	1.456	ug/ml	98
66) 3-Nitroaniline	7.554	138	11230	1.645	ug/ml#	86
68) 2,4-Dinitrophenol	7.654	184	5427	1.332	ug/ml#	84
69) Dibenzofuran	7.784	168	64612	1.375	ug/ml#	87
70) 2,4-Dinitrotoluene	7.787	165	16826	1.676	ug/ml	89
71) 4-Nitrophenol	7.744	65	7221	1.166	ug/ml#	89
74) Diethyl phthalate	8.045	149	53757	1.528	ug/ml	98
76) 4-Chlorophenyl phenyl ...	8.132	204	25973	1.370	ug/ml#	79
77) 4-Nitroaniline	8.139	138	12722	1.774	ug/ml#	88
78) 4,6-Dinitro-o-cresol	8.176	198	9159	1.475	ug/ml#	61
79) NDPA/DPA	8.250	169	46633	1.458	ug/ml	94
82) 4-Bromophenyl phenyl e...	8.602	248	17574	1.467	ug/ml#	77

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250621RVT\
 Data File : 081606-4.D
 Acq On : 21 Jun 2025 1:41 pm
 Operator : Dakota:smz
 Sample : WG2081606-4,32,,gmr
 Misc : WG2081719,WG2081606,ical22203
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 26 15:44:57 2025
 Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sat Jun 21 07:32:38 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250621RVT\ABN0621.D
 : 2 - I:\8270\Dakota\250621RVT\ADP0621.D
 : 3 - I:\8270\Dakota\250621RVT\AP90621.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
89)	Atrazine	8.782	200	18505	1.743	ug/ml	93
93)	Carbazole	9.248	167	101947	1.635	ug/ml	100
94)	Di-n-butylphthalate	9.640	149	97100	1.501	ug/ml	98
99)	Butyl benzyl phthalate	11.107	149	47981	1.708	ug/ml#	85
108)	3,3'-Dichlorobenzidine	11.620	252	46101	1.318	ug/ml#	94
110)	Bis(2-ethylhexyl)phtha...	11.741	149	77851	1.563	ug/ml#	94
111)	Di-n-octylphthalate	12.415	149	129901	1.605	ug/ml#	77

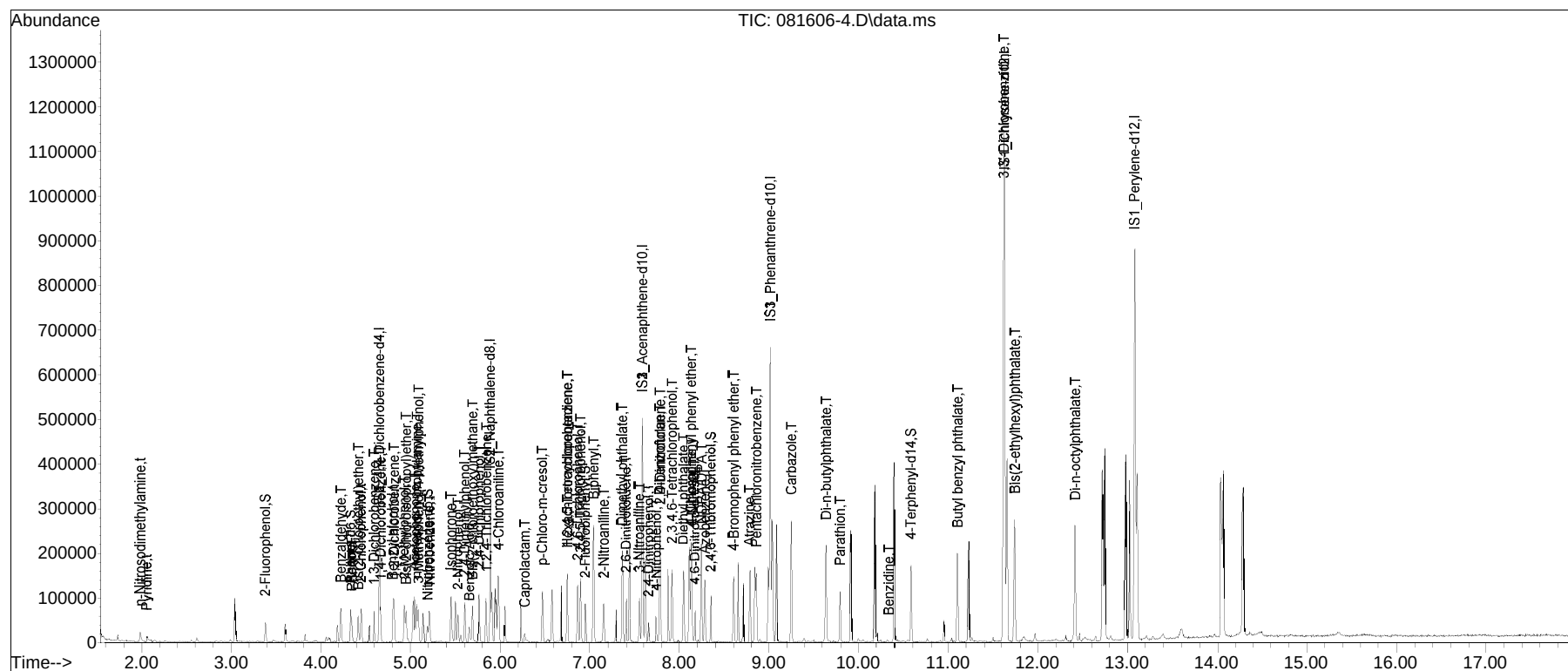
(#) = qualifier out of range (m) = manual integration (+) = signals summed

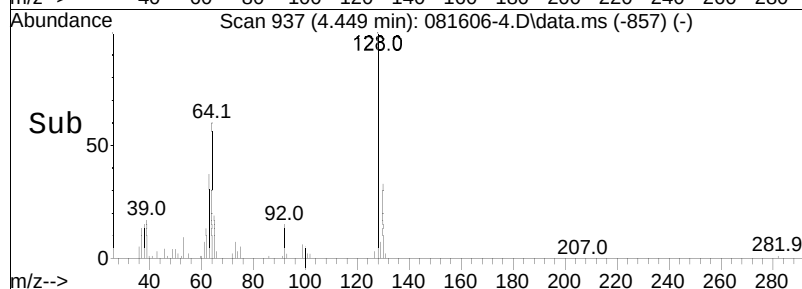
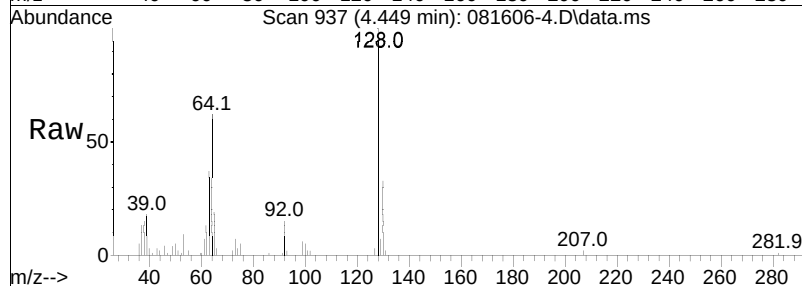
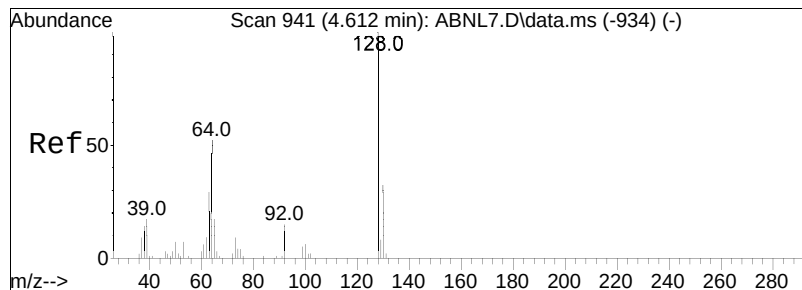
Quantitation Report (QT Reviewed)

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Data Path   : I:\8270\Dakota\250621RVT\  
Data File  : 081606-4.D  
Acq On     : 21 Jun 2025    1:41 pm  
Operator   : Dakota:smz  
Sample     : WG2081606-4, 32,, gmr  
Misc       : WG2081719, WG2081606, ical22203  
ALS Vial   : 17    Sample Multiplier: 1
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Quant Time: Jun 26 15:44:57 2025
Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Jun 21 07:32:38 2025
Response via : Initial Calibration

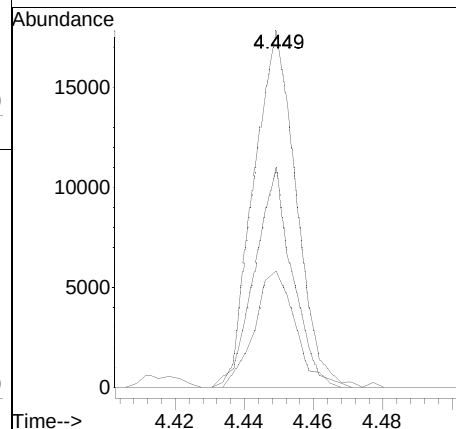
Sub List : 8270IC\82700bDaRev1\250621RV7MAP90621.D•

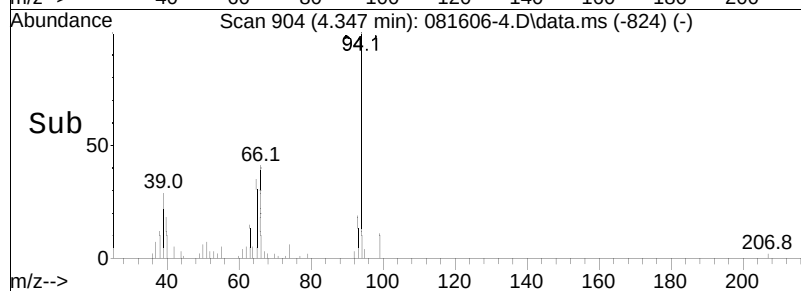
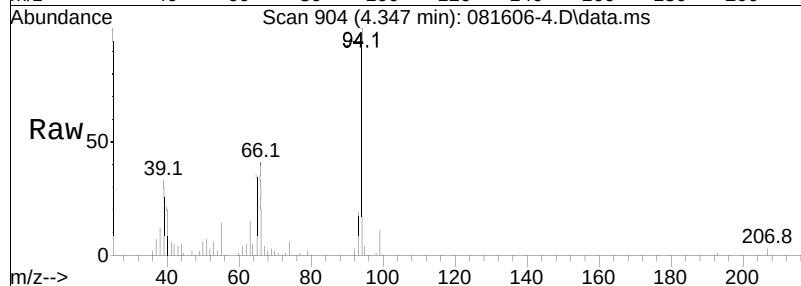
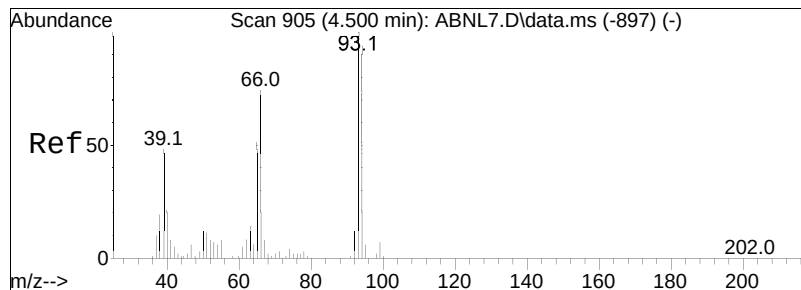




#6
 2-Chlorophenol
 Concen: 1.46 ug/ml
 RT: 4.449 min Scan# 937
 Delta R.T. 0.000 min
 Lab File: 081606-4.D
 Acq: 21 Jun 2025 1:41 pm

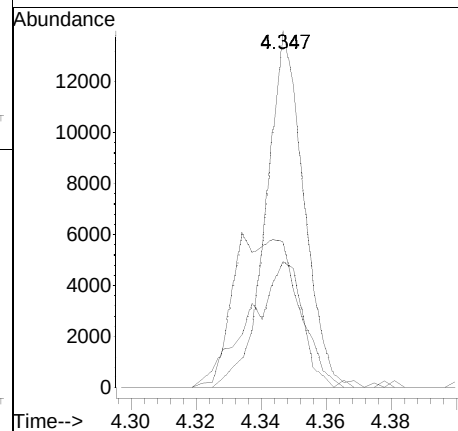
Tgt Ion	Ratio	Lower	Upper
128	100		
64	55.2	45.1	67.7
130	31.6	26.2	39.4

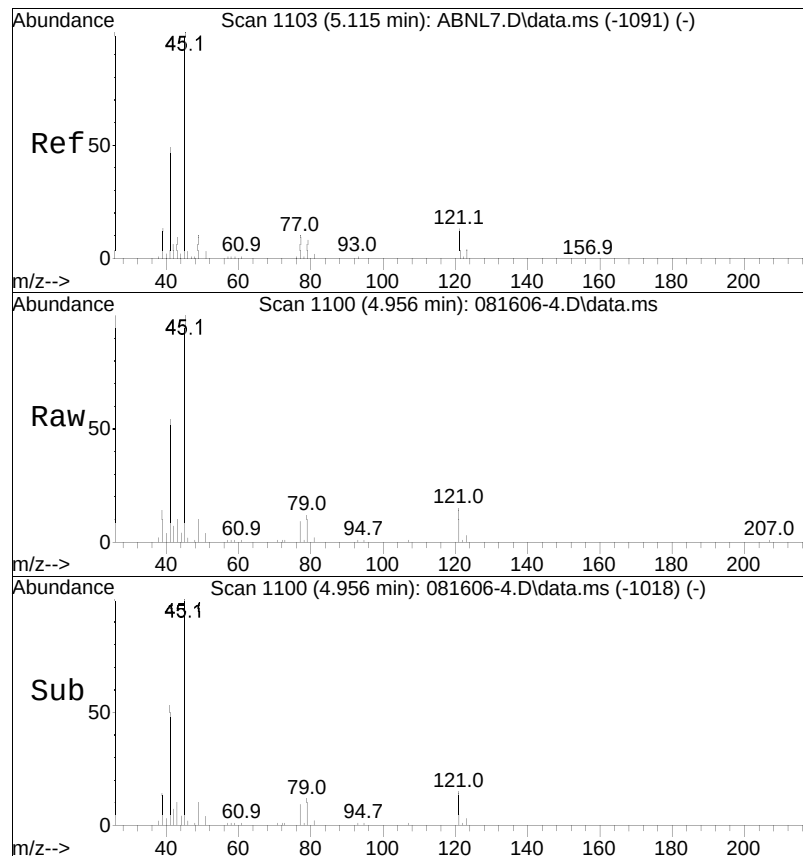




#8
 Phenol
 Concen: 0.80 ug/ml
 RT: 4.347 min Scan# 904
 Delta R.T. 0.000 min
 Lab File: 081606-4.D
 Acq: 21 Jun 2025 1:41 pm

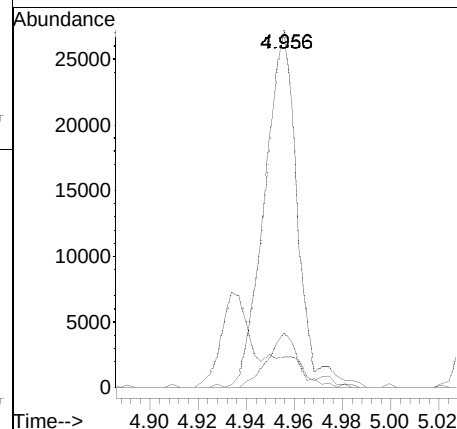
Tgt Ion	Ratio	Lower	Upper
94	100		
65	49.0	26.0	39.0#
66	72.8	33.8	50.8#

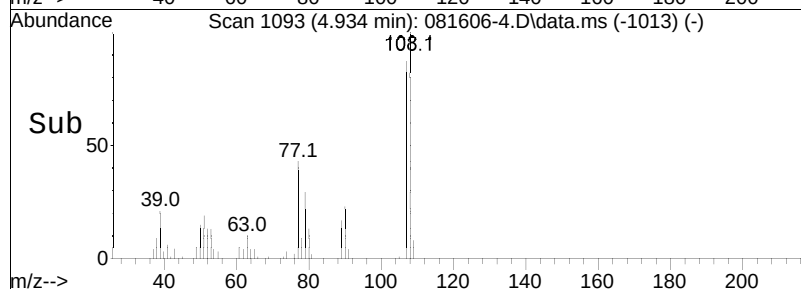
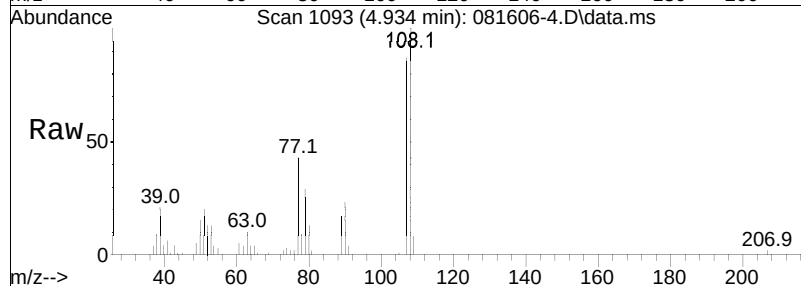
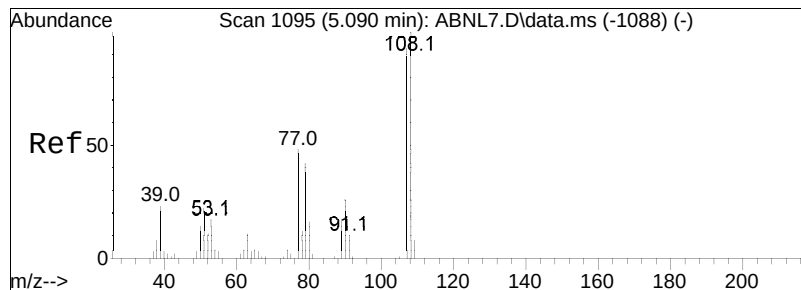




#14
 Bis(2-chloroisopropyl)ether
 Concen: 1.32 ug/ml
 RT: 4.956 min Scan# 1100
 Delta R.T. 0.006 min
 Lab File: 081606-4.D
 Acq: 21 Jun 2025 1:41 pm

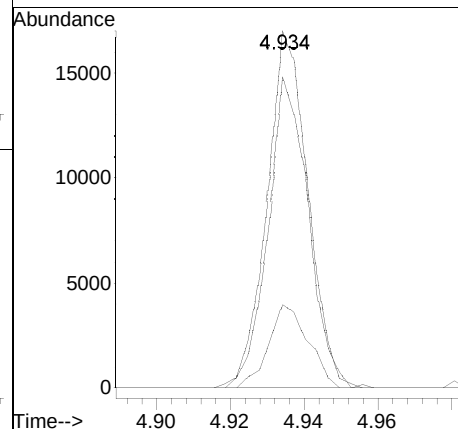
Tgt Ion:	45	Resp:	25588
Ion Ratio	Lower	Upper	
45	100		
121	14.5	9.8	14.6
77	23.4	6.1	9.1#

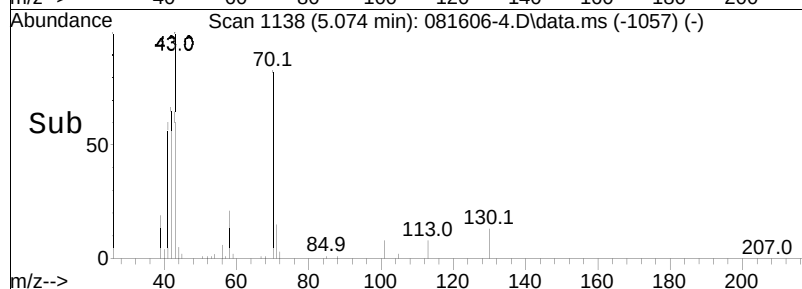
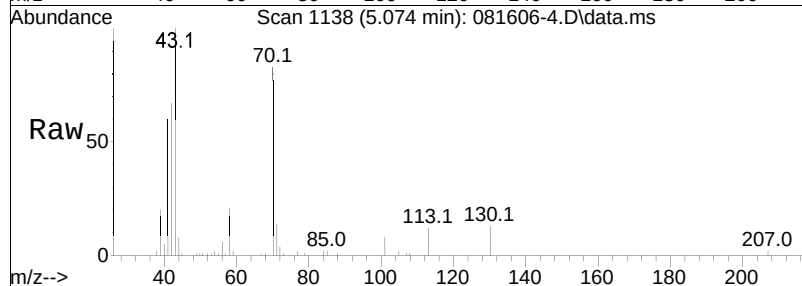
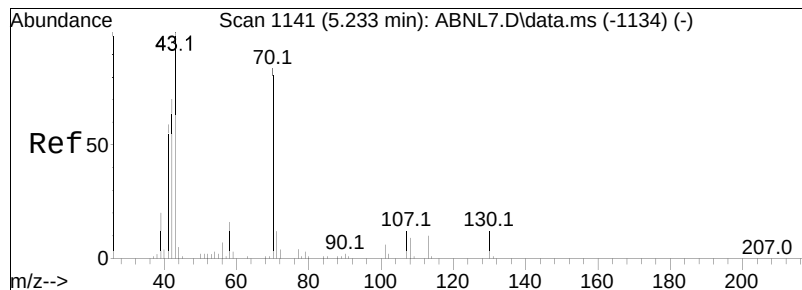




#15
 2-Methylphenol
 Concen: 1.42 ug/ml
 RT: 4.934 min Scan# 1093
 Delta R.T. 0.000 min
 Lab File: 081606-4.D
 Acq: 21 Jun 2025 1:41 pm

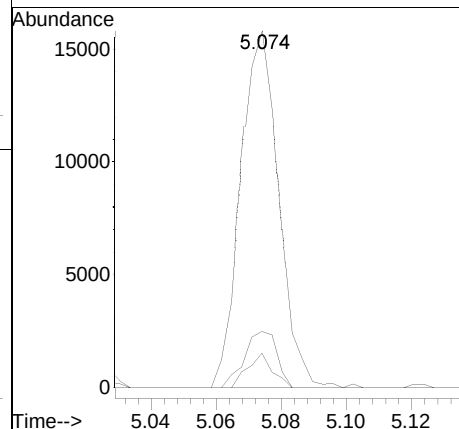
Tgt Ion	Ratio	Lower	Upper
108	100		
107	85.5	70.7	106.1
90	22.5	18.7	28.1

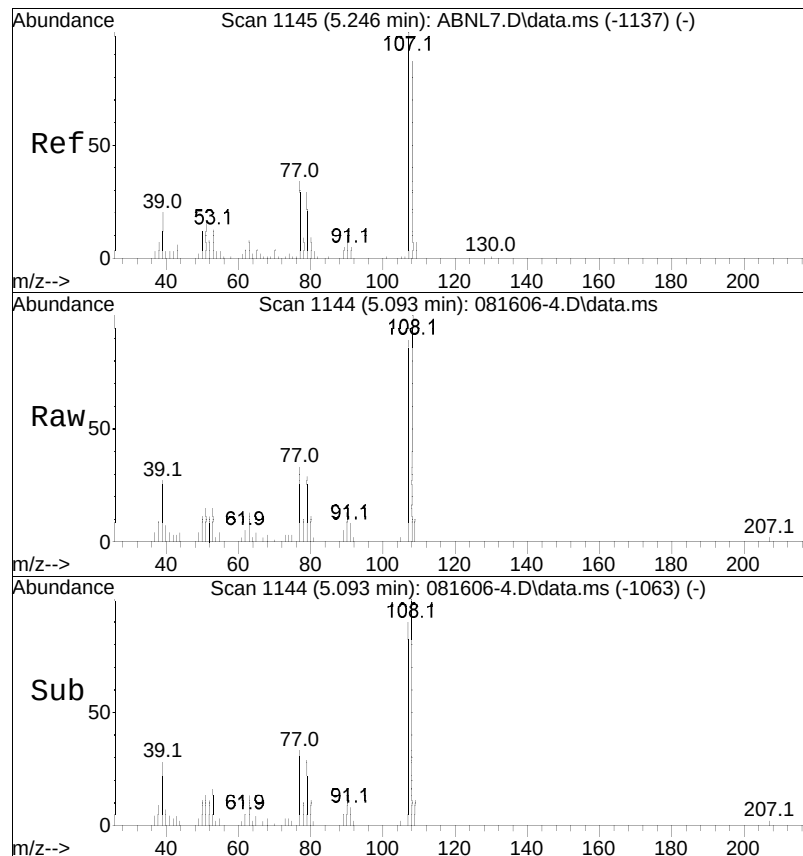




#17
 n-Nitrosodi-n-propylamine
 Concen: 1.56 ug/ml
 RT: 5.074 min Scan# 1138
 Delta R.T. 0.003 min
 Lab File: 081606-4.D
 Acq: 21 Jun 2025 1:41 pm

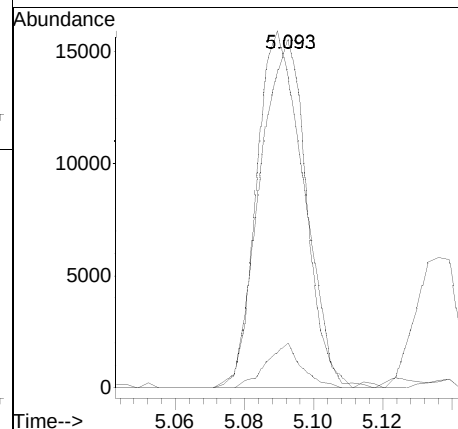
Tgt Ion	Ratio	Lower	Upper
70	100		
130	13.4	18.2	27.4#
101	6.3	7.8	11.8#

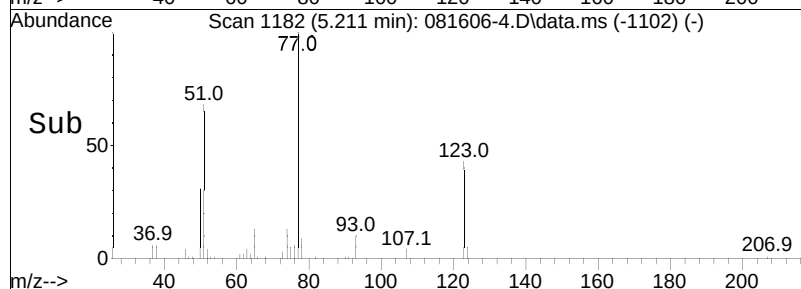
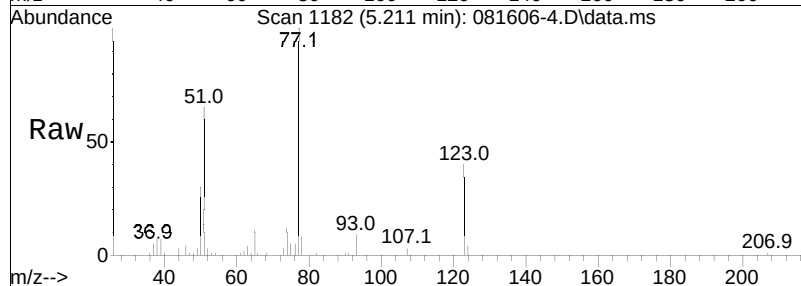
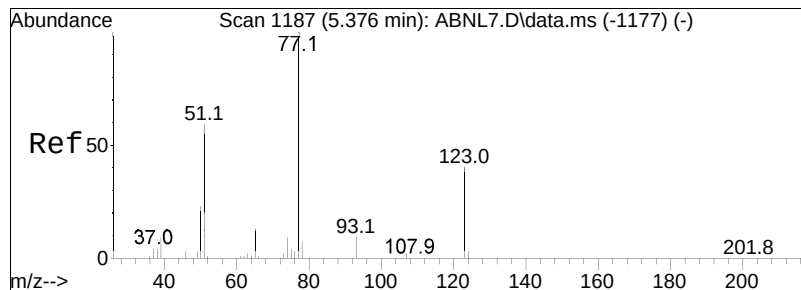




#18
 3-Methylphenol/4-Methylphenol
 Concen: 1.46 ug/ml
 RT: 5.093 min Scan# 1144
 Delta R.T. 0.003 min
 Lab File: 081606-4.D
 Acq: 21 Jun 2025 1:41 pm

Tgt Ion:	108	Resp:	14423
Ion Ratio	Lower	Upper	
108	100		
107	104.1	88.6	132.8
90	9.8	8.8	13.2





#20

Nitrobenzene

Concen: 1.41 ug/ml

RT: 5.211 min Scan# 1182

Delta R.T. 0.000 min

Lab File: 081606-4.D

Acq: 21 Jun 2025 1:41 pm

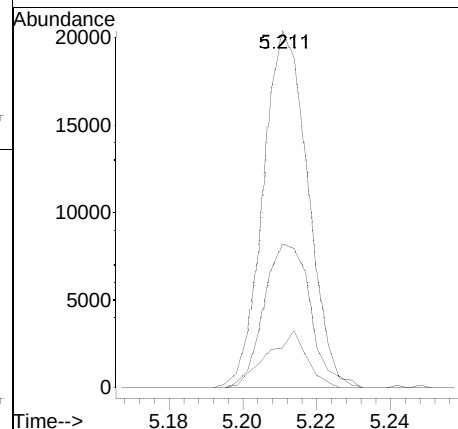
Tgt Ion: 77 Resp: 17059

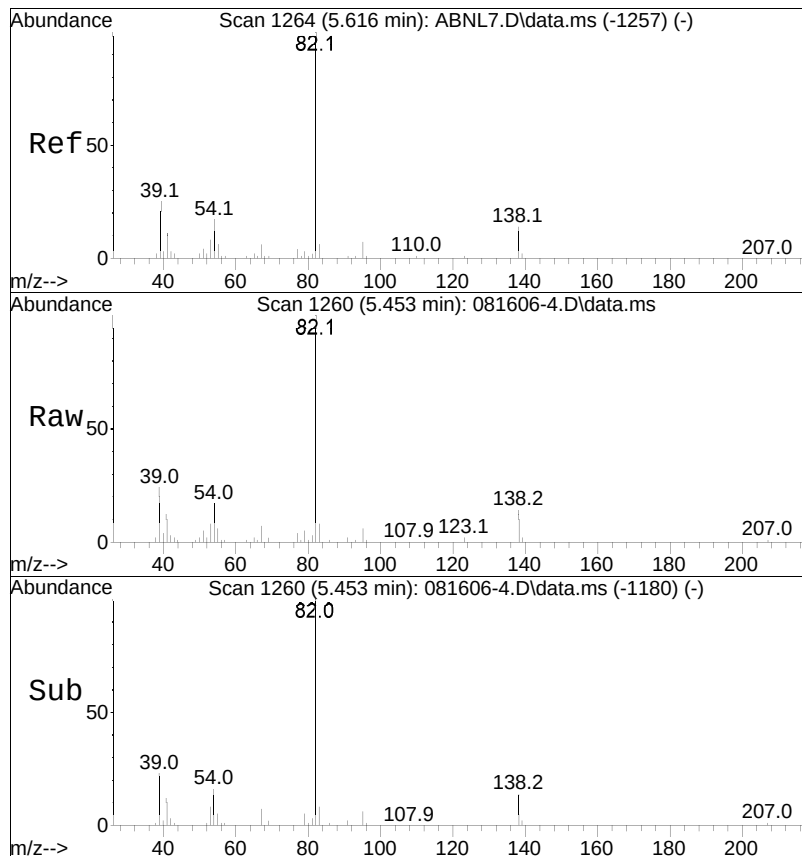
Ion Ratio Lower Upper

77 100

123 41.9 36.3 54.5

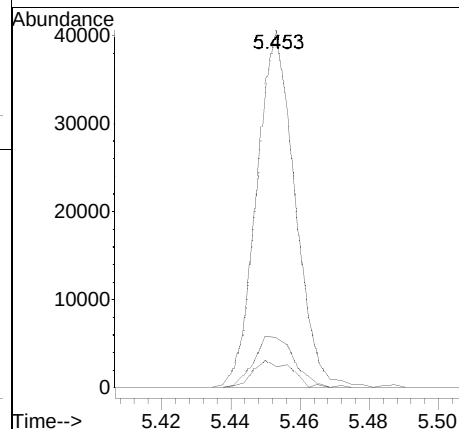
65 14.3 11.6 17.4

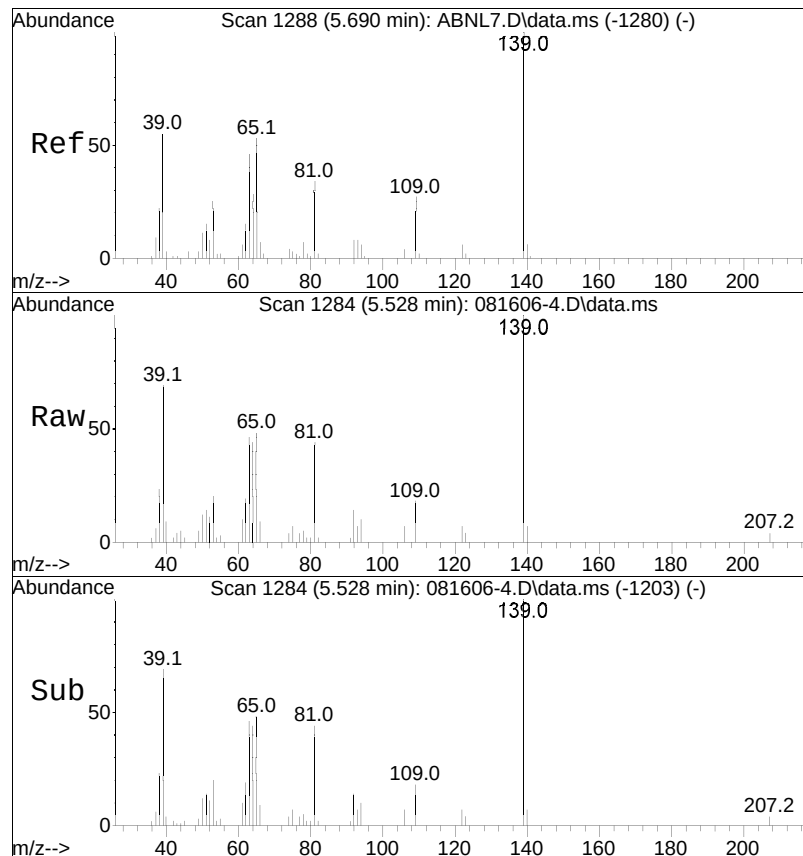




#21
 Isophorone
 Concen: 1.39 ug/ml
 RT: 5.453 min Scan# 1260
 Delta R.T. 0.000 min
 Lab File: 081606-4.D
 Acq: 21 Jun 2025 1:41 pm

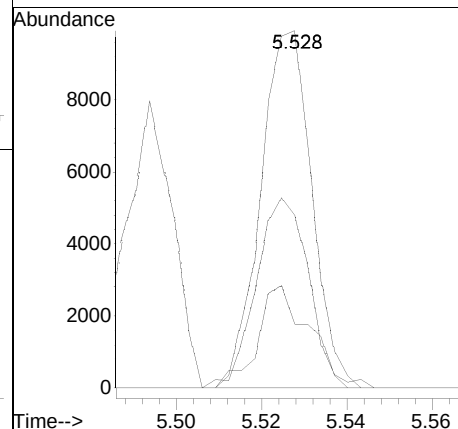
Tgt Ion:	82	Resp:	30832
Ion Ratio	Lower	Upper	
82	100		
138	15.2	14.7	22.1
95	7.8	5.2	7.8

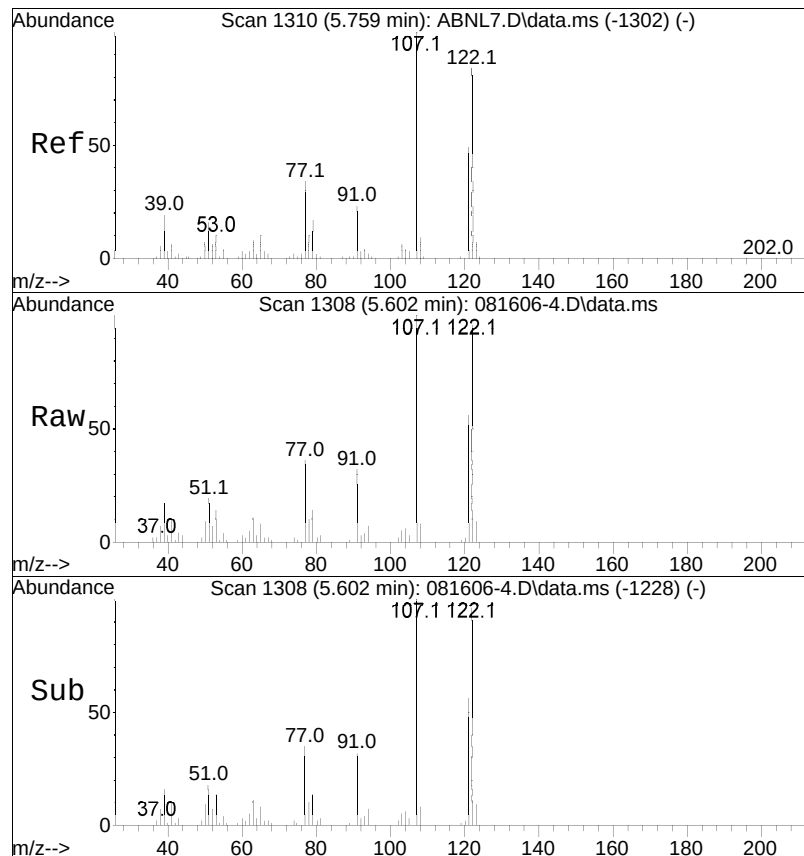




#22
 2-Nitrophenol
 Concen: 1.55 ug/ml
 RT: 5.528 min Scan# 1284
 Delta R.T. 0.003 min
 Lab File: 081606-4.D
 Acq: 21 Jun 2025 1:41 pm

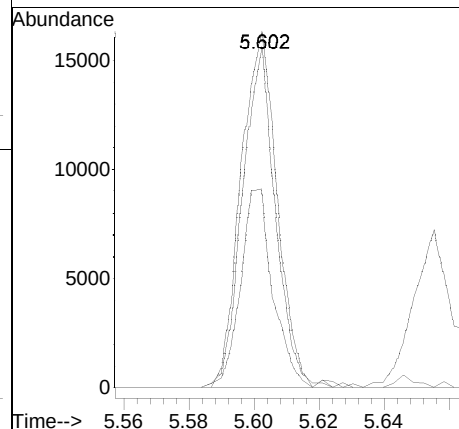
Tgt Ion:	139	Resp:	8276
Ion Ratio	Lower	Upper	
139	100		
109	28.2	19.4	29.0
65	54.0	46.1	69.1

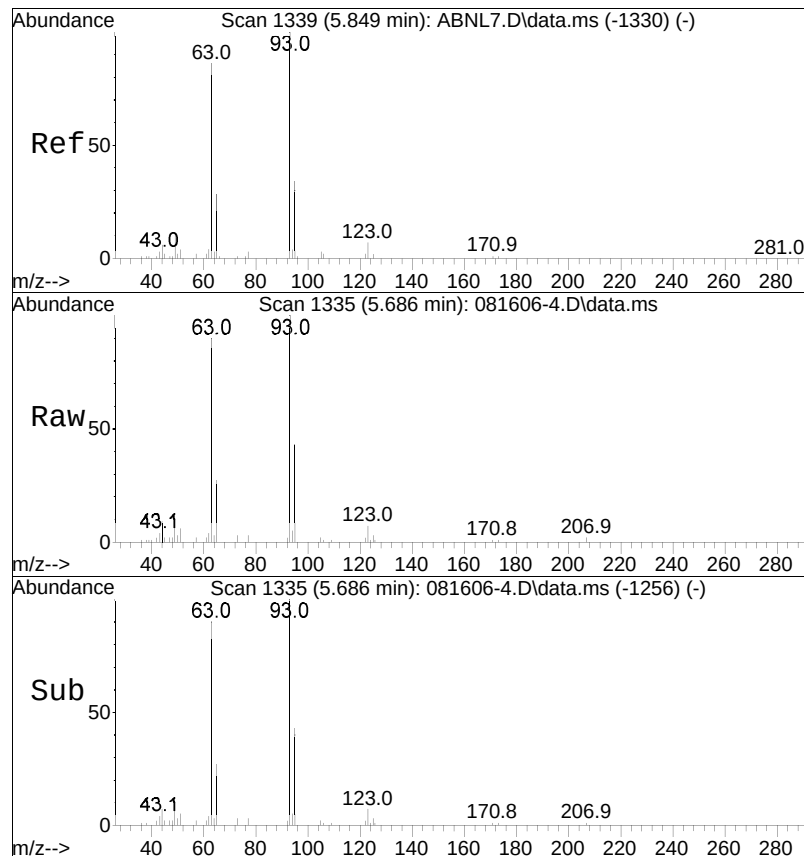




#23
 2,4-Dimethylphenol
 Concen: 1.19 ug/ml
 RT: 5.602 min Scan# 1308
 Delta R.T. 0.000 min
 Lab File: 081606-4.D
 Acq: 21 Jun 2025 1:41 pm

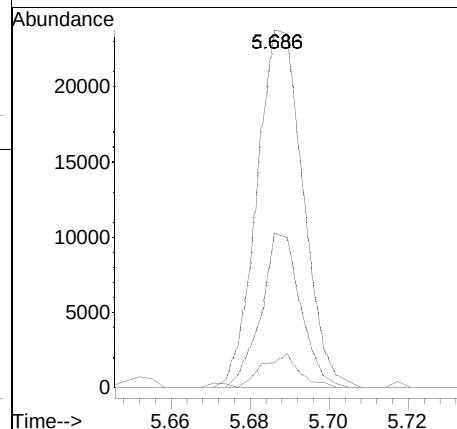
Tgt Ion:	107	Resp:	12658
Ion Ratio	Lower	Upper	
107	100		
121	50.3	40.0	60.0
122	86.8	70.2	105.4

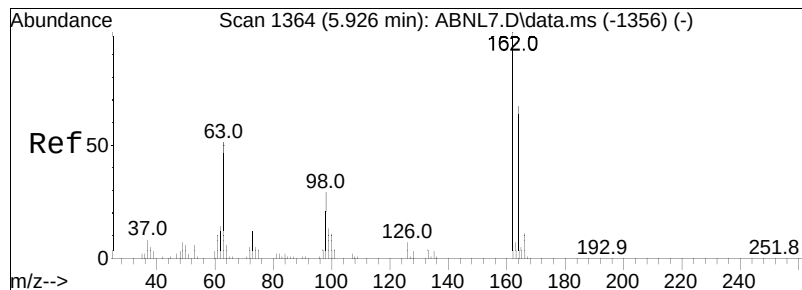




#24
 Bis(2-chloroethoxy)methane
 Concen: 1.46 ug/ml
 RT: 5.686 min Scan# 1335
 Delta R.T. -0.003 min
 Lab File: 081606-4.D
 Acq: 21 Jun 2025 1:41 pm

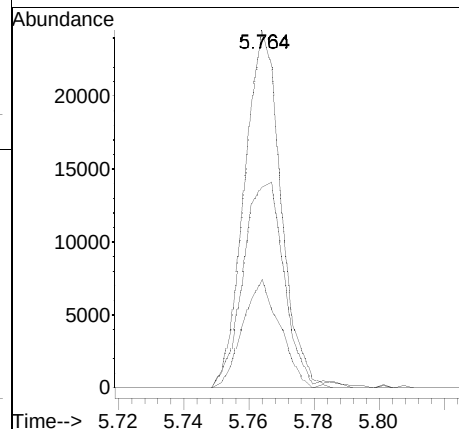
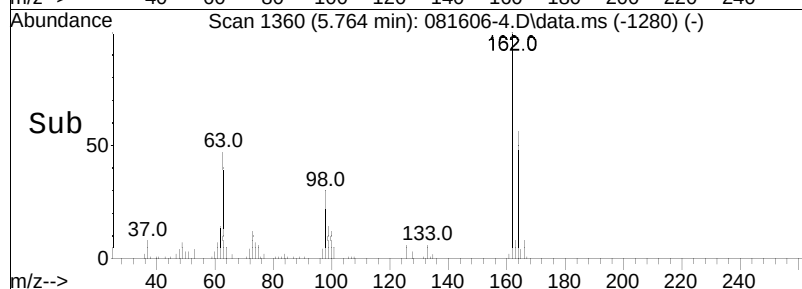
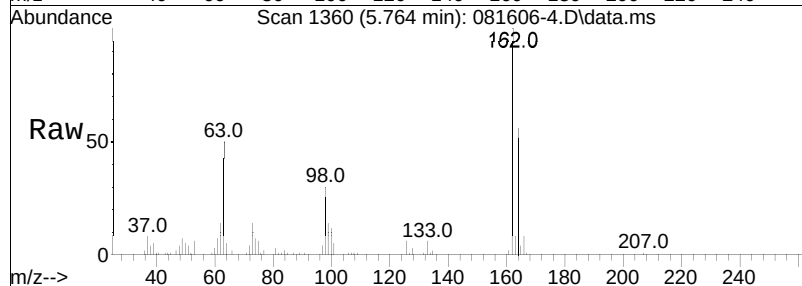
Tgt Ion:	93	Resp:	19115
Ion Ratio	Lower	Upper	
93	100		
95	37.1	25.8	38.8
123	8.1	10.1	15.1#

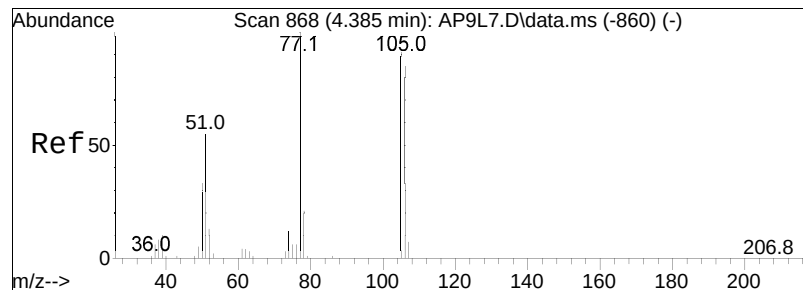




#25
 2,4-Dichlorophenol
 Concen: 1.74 ug/ml
 RT: 5.764 min Scan# 1360
 Delta R.T. 0.000 min
 Lab File: 081606-4.D
 Acq: 21 Jun 2025 1:41 pm

Tgt Ion	Ratio	Lower	Upper
162	100		
164	64.5	51.0	76.4
98	30.7	32.2	48.2#





#28

Benzaldehyde

Concen: 1.66 ug/ml

RT: 4.222 min Scan# 864

Delta R.T. 0.003 min

Lab File: 081606-4.D

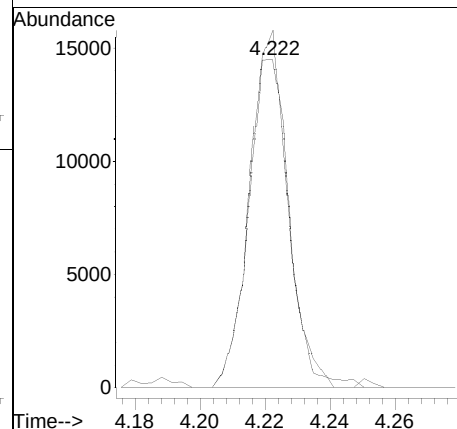
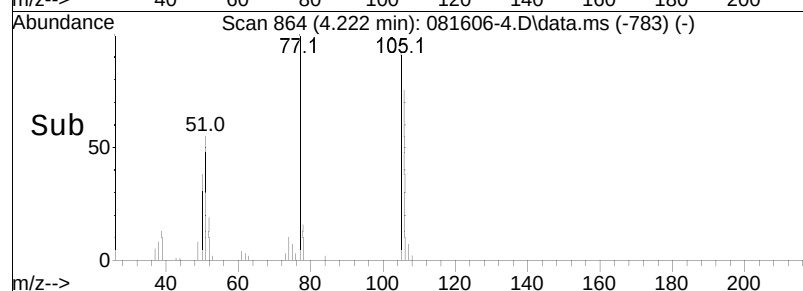
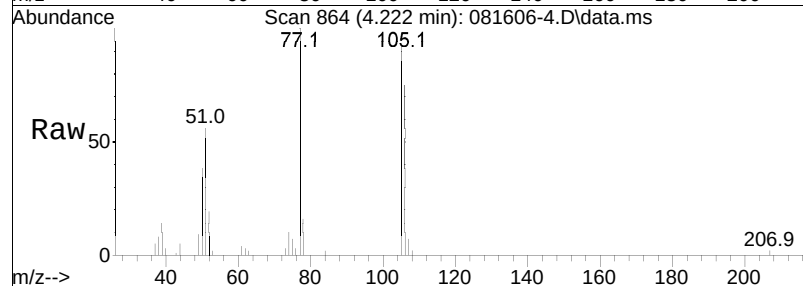
Acq: 21 Jun 2025 1:41 pm

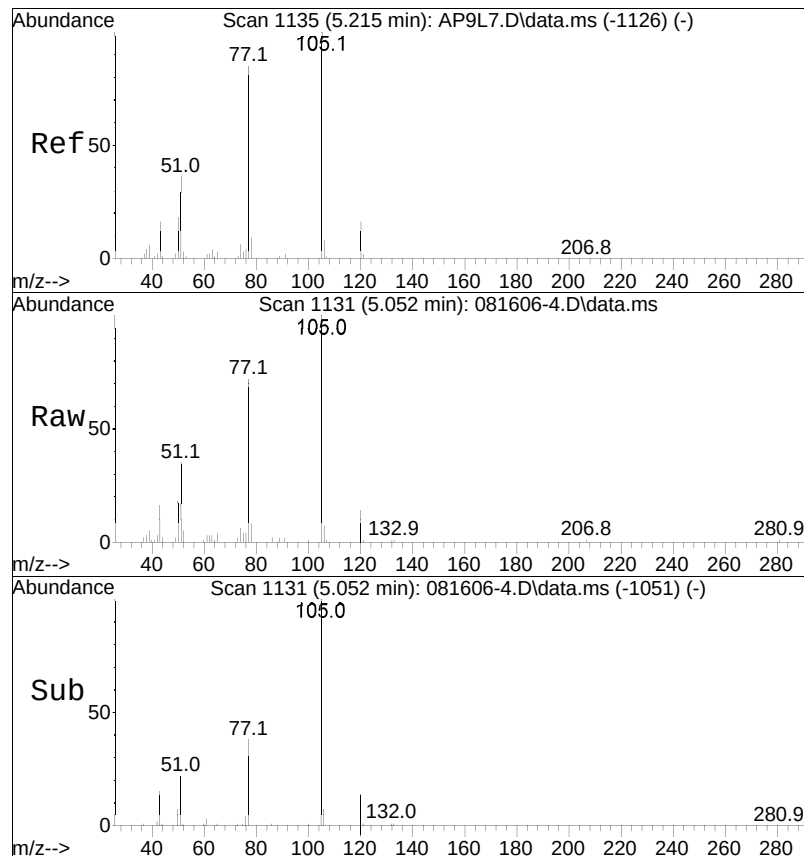
Tgt Ion:105 Resp: 12659

Ion Ratio Lower Upper

105 100

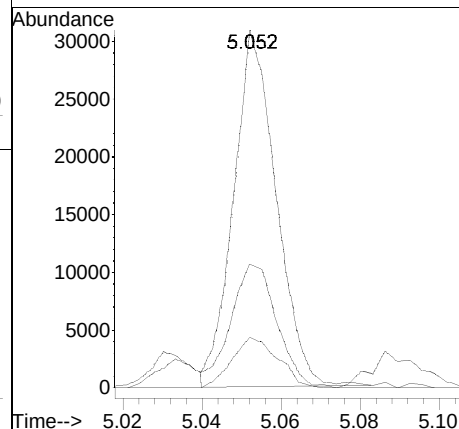
77 101.6 82.2 123.4

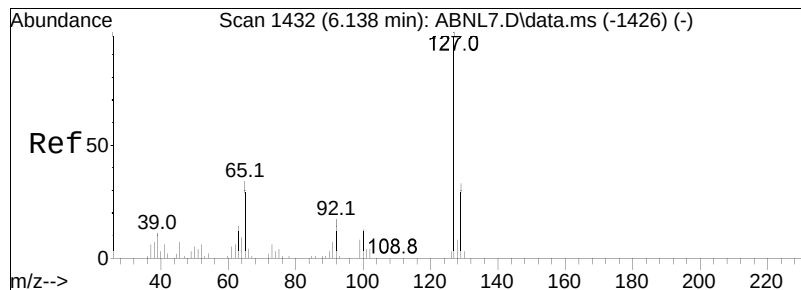




#29
 Acetophenone
 Concen: 1.70 ug/ml
 RT: 5.052 min Scan# 1131
 Delta R.T. 0.000 min
 Lab File: 081606-4.D
 Acq: 21 Jun 2025 1:41 pm

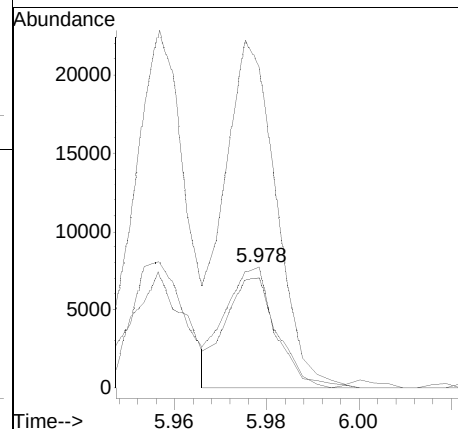
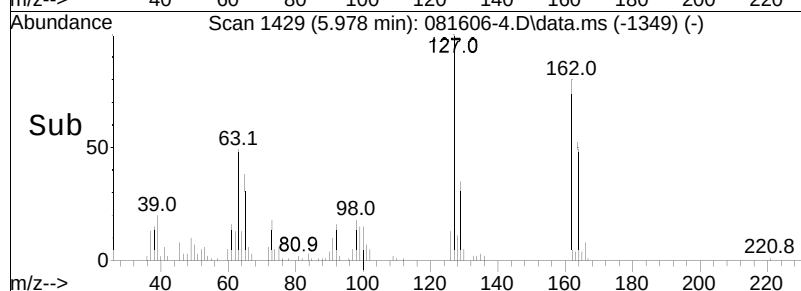
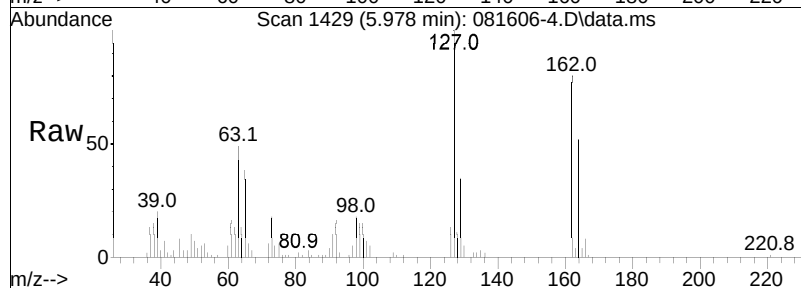
Tgt Ion:	105	Resp:	22896
Ion Ratio	Lower	Upper	
105	100		
120	15.4	20.5	30.7#
51	37.6	34.9	52.3

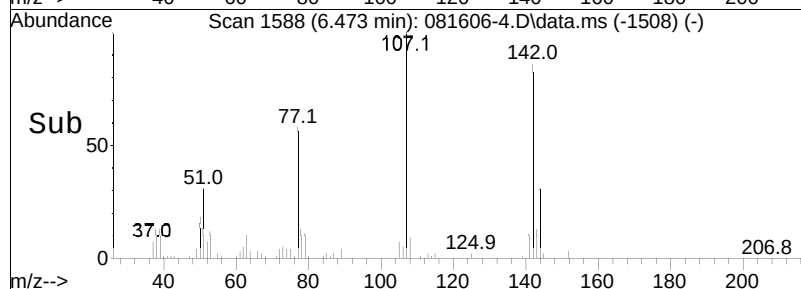
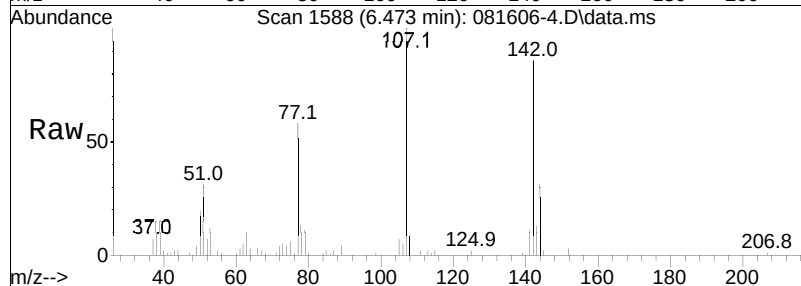
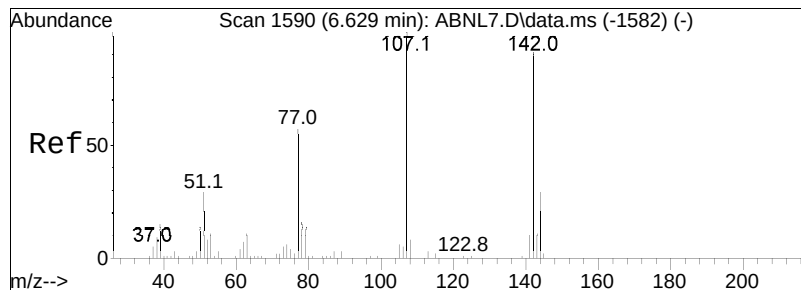




#40
 4-Chloroaniline
 Concen: 1.32 ug/ml
 RT: 5.978 min Scan# 1429
 Delta R.T. 0.000 min
 Lab File: 081606-4.D
 Acq: 21 Jun 2025 1:41 pm

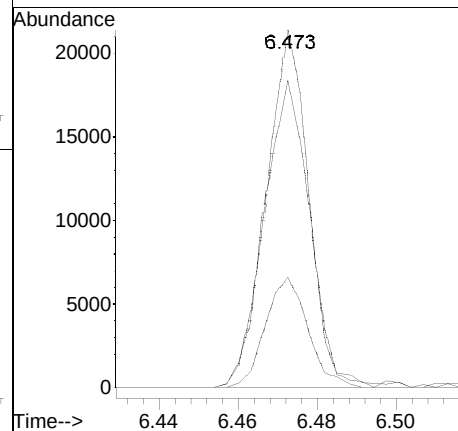
Tgt Ion	Ratio	Lower	Upper
65	100		
127	284.1	237.6	356.4
129	92.5	76.3	114.5

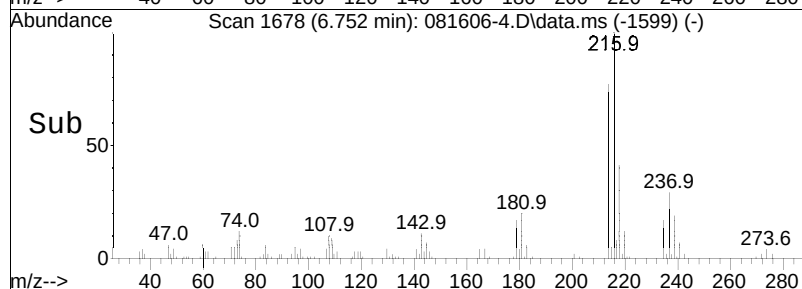
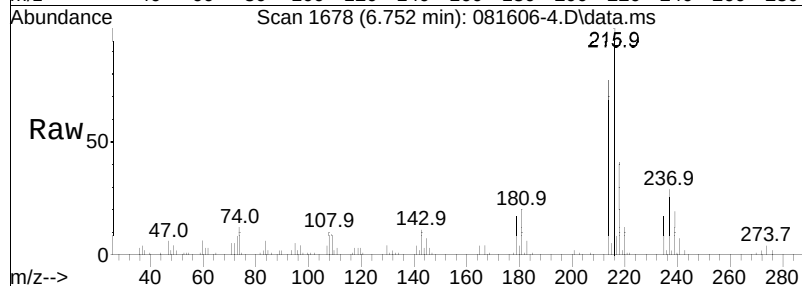
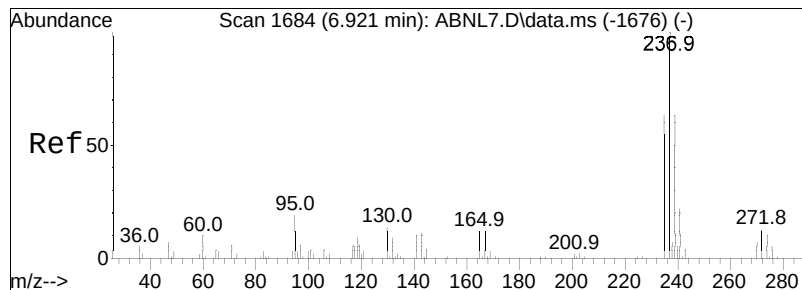




#42
 p-Chloro-m-cresol
 Concen: 1.74 ug/ml
 RT: 6.473 min Scan# 1588
 Delta R.T. 0.000 min
 Lab File: 081606-4.D
 Acq: 21 Jun 2025 1:41 pm

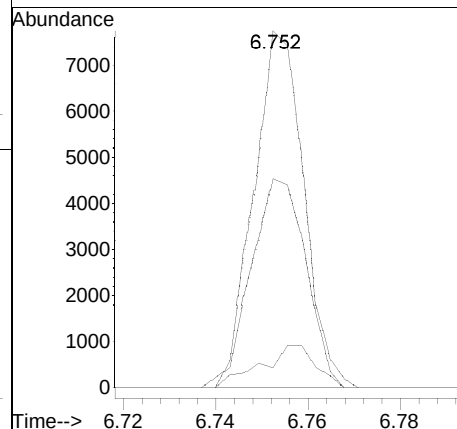
Tgt Ion	Ratio	Lower	Upper
107	100		
144	30.9	20.9	31.3
142	92.2	66.1	99.1

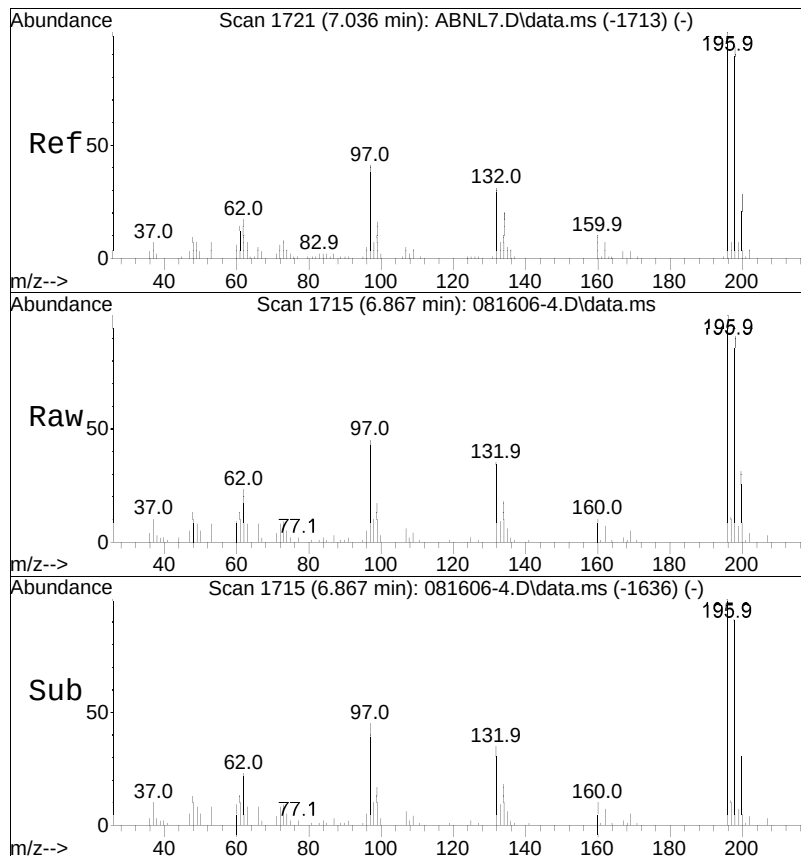




#45
 Hexachlorocyclopentadiene
 Concen: 0.53 ug/ml
 RT: 6.752 min Scan# 1678
 Delta R.T. -0.003 min
 Lab File: 081606-4.D
 Acq: 21 Jun 2025 1:41 pm

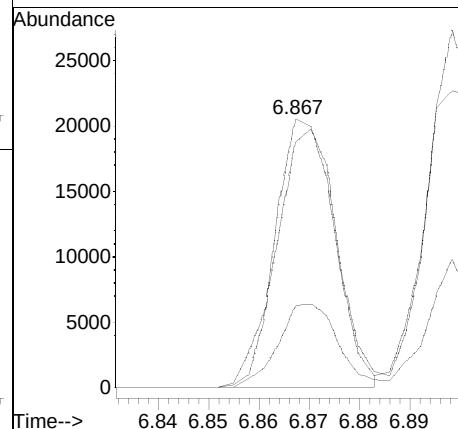
Tgt Ion	Ratio	Lower	Upper
237	100		
235	64.4	49.7	74.5
272	13.3	9.8	14.6

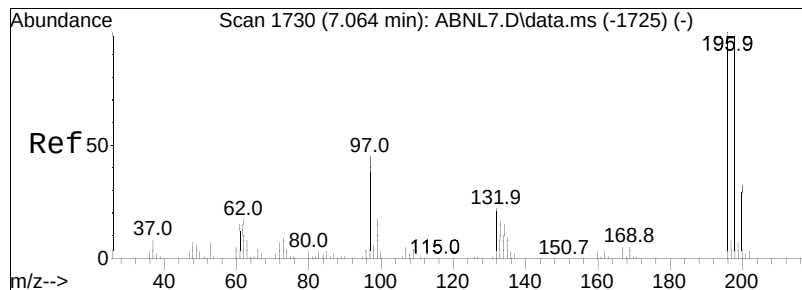




#46
 2,4,6-Trichlorophenol
 Concen: 1.76 ug/ml
 RT: 6.867 min Scan# 1715
 Delta R.T. -0.003 min
 Lab File: 081606-4.D
 Acq: 21 Jun 2025 1:41 pm

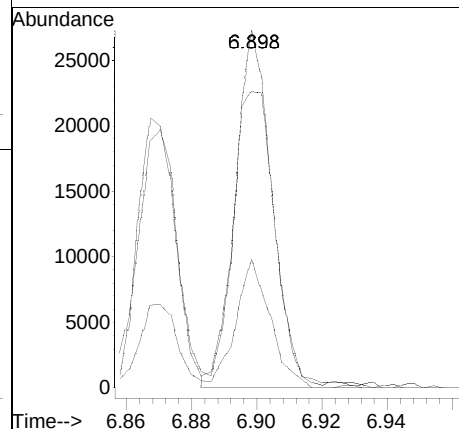
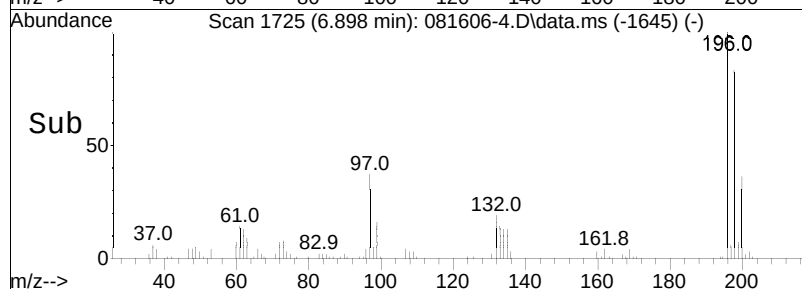
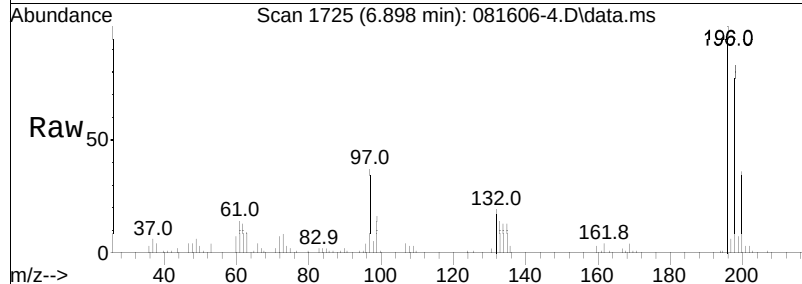
Tgt Ion:	196	Resp:	16588
Ion Ratio	Lower	Upper	
196	100		
198	101.3	77.5	116.3
200	32.3	23.8	35.6

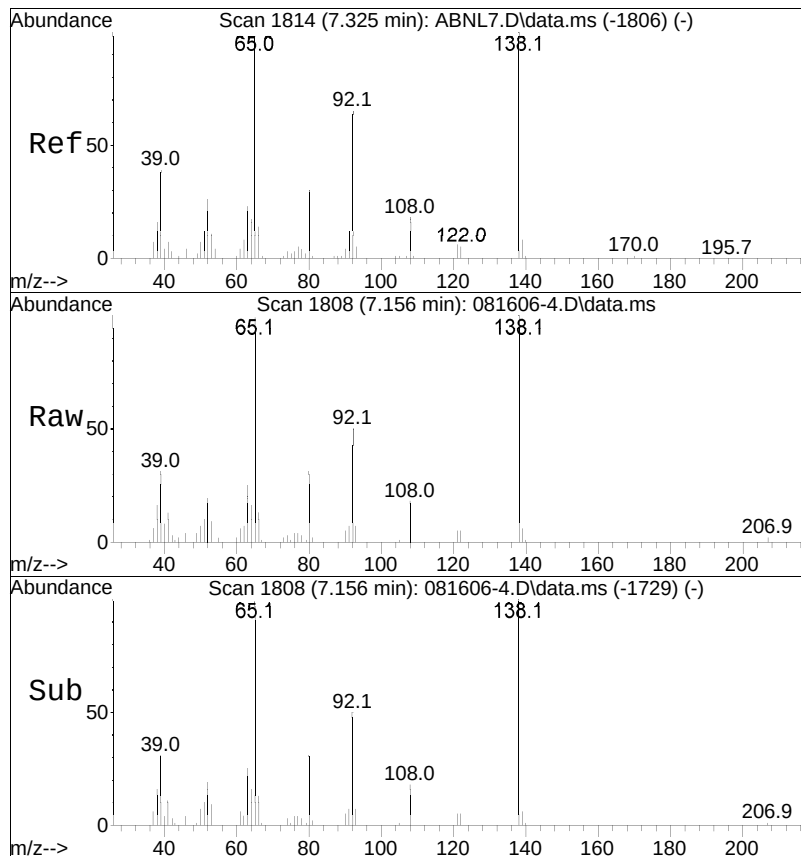




#47
 2,4,5-Trichlorophenol
 Concen: 2.07 ug/ml
 RT: 6.898 min Scan# 1725
 Delta R.T. 0.000 min
 Lab File: 081606-4.D
 Acq: 21 Jun 2025 1:41 pm

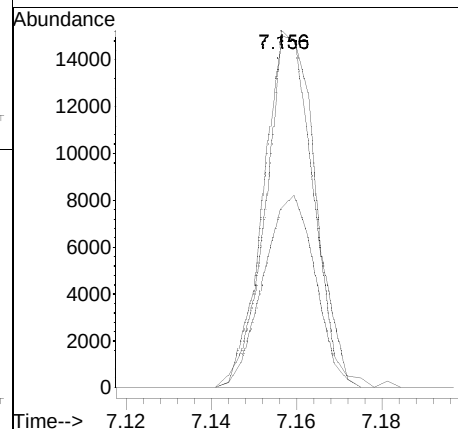
Tgt Ion	Ratio	Lower	Upper
196	100		
200	32.9	25.4	38.0
198	90.1	78.0	117.0

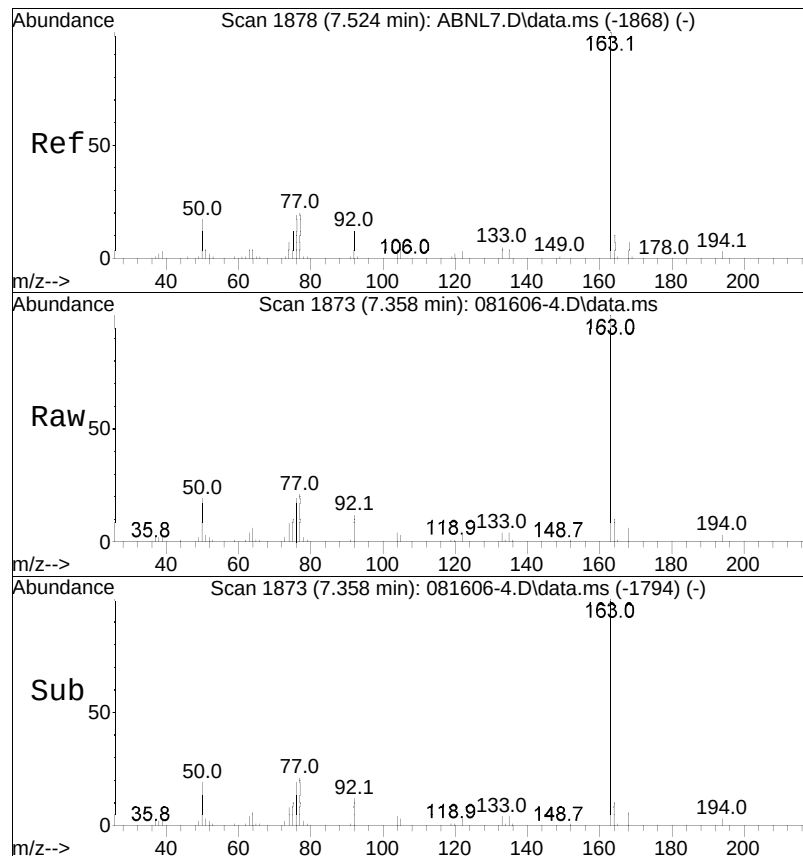




#50
 2-Nitroaniline
 Concen: 1.79 ug/ml
 RT: 7.156 min Scan# 1808
 Delta R.T. -0.003 min
 Lab File: 081606-4.D
 Acq: 21 Jun 2025 1:41 pm

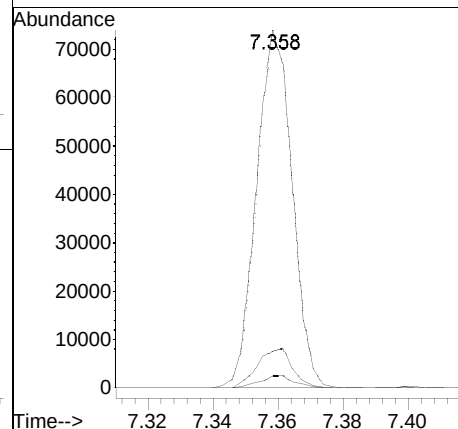
Tgt	Ion:138	Resp:	12260
Ion	Ratio	Lower	Upper
138	100		
92	56.6	53.5	80.3
65	99.2	86.3	129.5

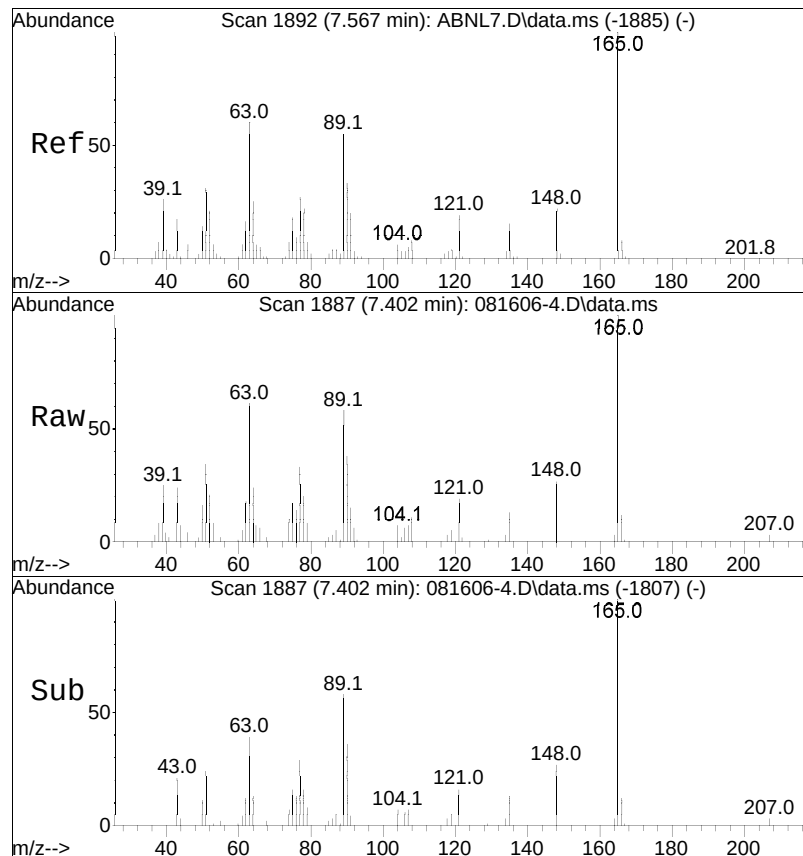




#53
 Dimethyl phthalate
 Concen: 1.72 ug/ml
 RT: 7.358 min Scan# 1873
 Delta R.T. -0.003 min
 Lab File: 081606-4.D
 Acq: 21 Jun 2025 1:41 pm

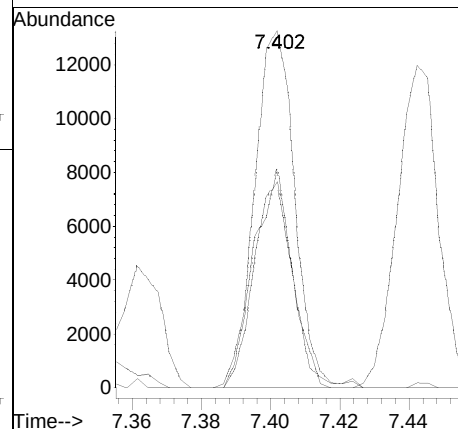
Tgt Ion:	163	Resp:	55706
Ion Ratio	Lower	Upper	
163	100		
194	3.3	3.5	5.3#
164	10.9	7.9	11.9

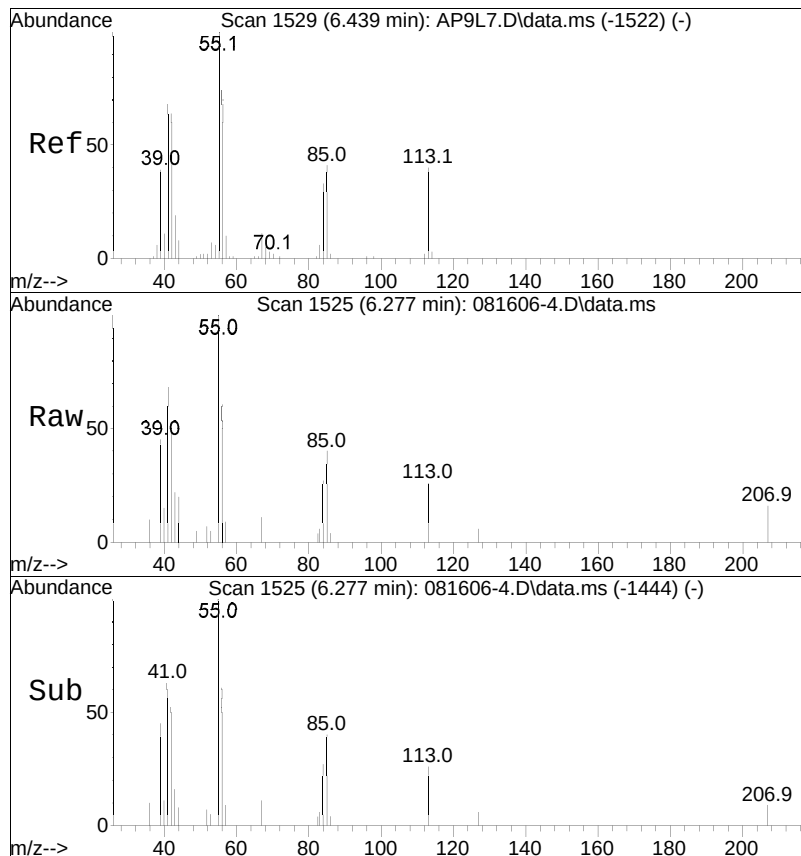




#55
 2,6-Dinitrotoluene
 Concen: 1.65 ug/ml
 RT: 7.402 min Scan# 1887
 Delta R.T. 0.000 min
 Lab File: 081606-4.D
 Acq: 21 Jun 2025 1:41 pm

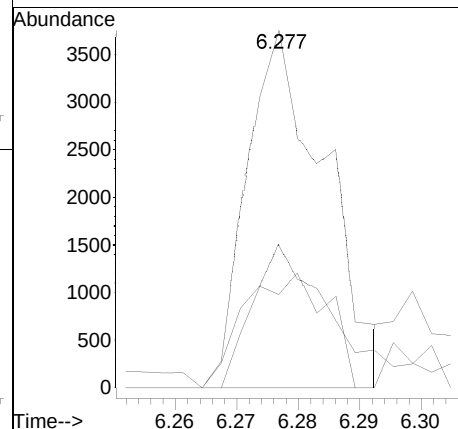
Tgt Ion:	165	Resp:	10714
Ion Ratio	Lower	Upper	
165	100		
89	56.5	54.2	81.2
63	58.6	64.2	96.2#

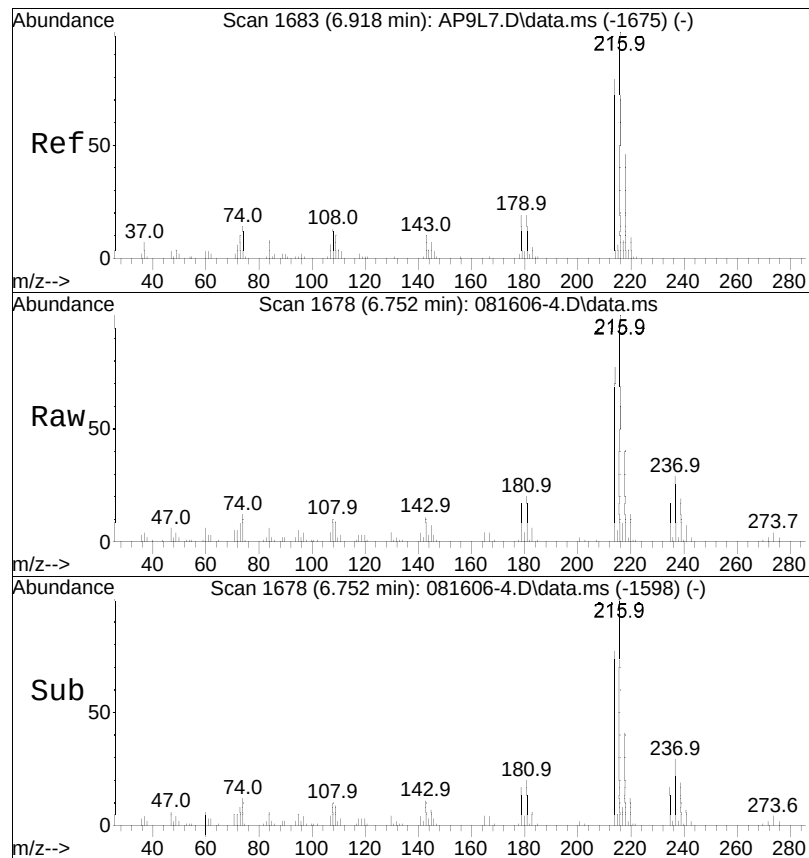




#62
 Caprolactam
 Concen: 0.61 ug/ml
 RT: 6.277 min Scan# 1525
 Delta R.T. 0.003 min
 Lab File: 081606-4.D
 Acq: 21 Jun 2025 1:41 pm

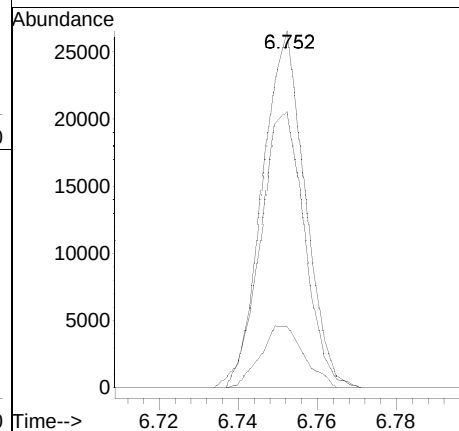
Tgt Ion	Ratio	Lower	Upper
55	100		
85	43.3	19.8	29.6#
113	34.2	29.6	44.4

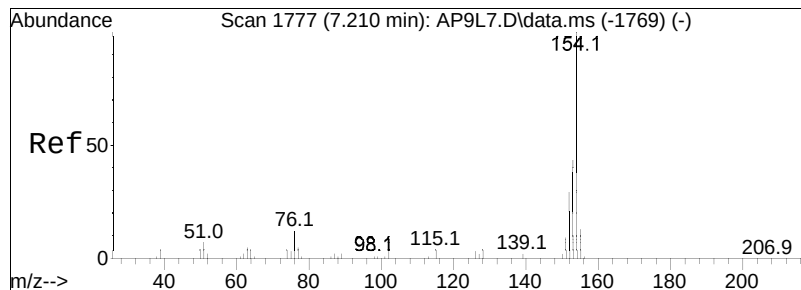




#63
 1,2,4,5-Tetrachlorobenzene
 Concen: 1.40 ug/ml
 RT: 6.752 min Scan# 1678
 Delta R.T. 0.000 min
 Lab File: 081606-4.D
 Acq: 21 Jun 2025 1:41 pm

Tgt Ion:	216	Resp:	19913
Ion Ratio	Lower	Upper	
216	100		
214	79.8	63.7	95.5
179	17.8	19.0	28.6#





#64

Biphenyl

Concen: 1.46 ug/ml

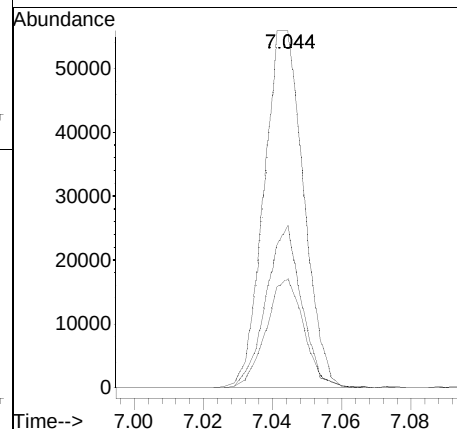
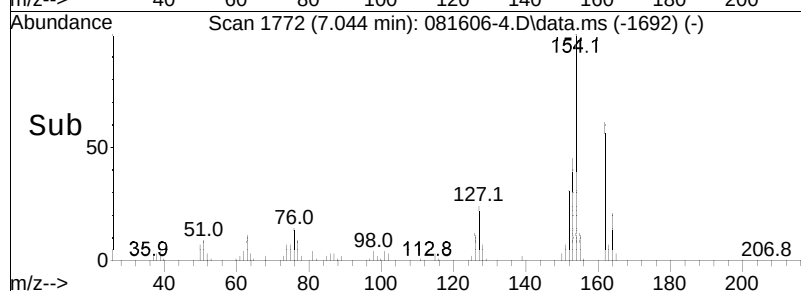
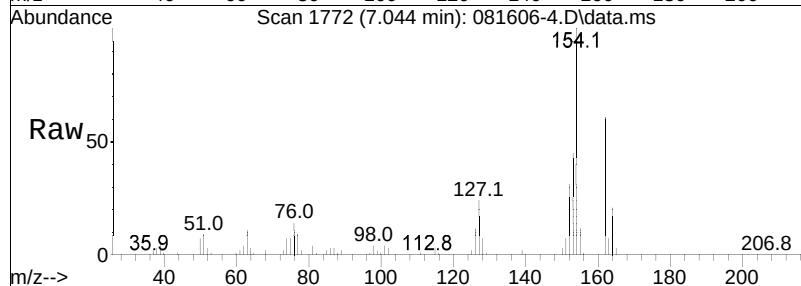
RT: 7.044 min Scan# 1772

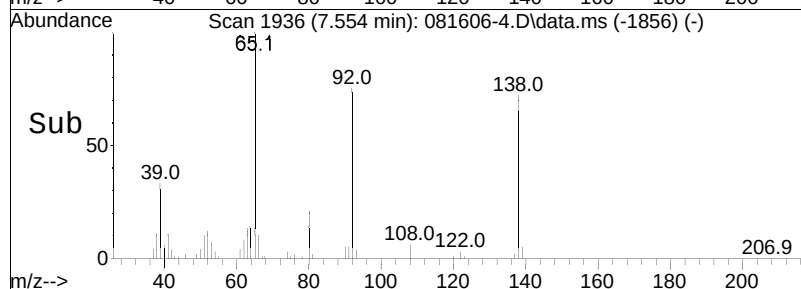
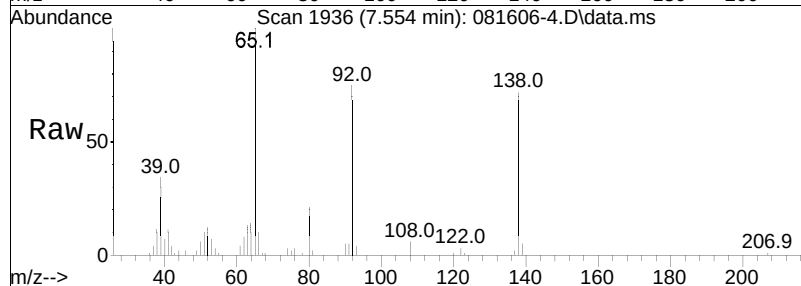
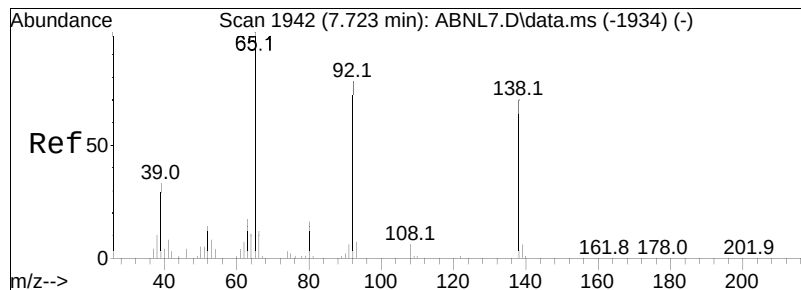
Delta R.T. 0.000 min

Lab File: 081606-4.D

Acq: 21 Jun 2025 1:41 pm

Tgt Ion:	154	Resp:	44250
Ion Ratio	Lower	Upper	
154	100		
153	41.1	32.3	48.5
152	29.5	22.5	33.7





#66

3-Nitroaniline

Concen: 1.65 ug/ml

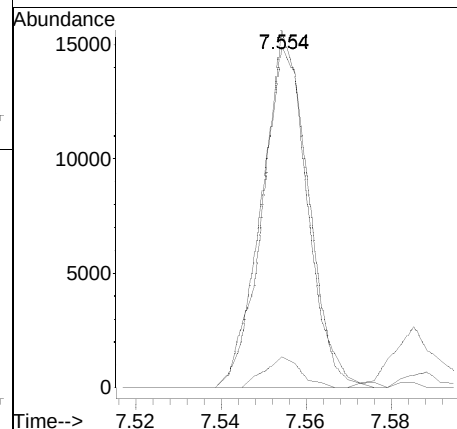
RT: 7.554 min Scan# 1936

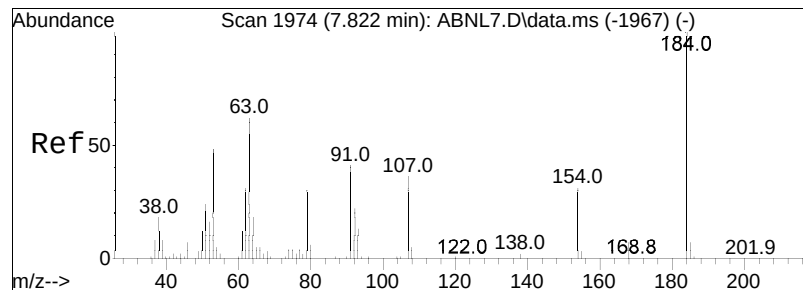
Delta R.T. 0.000 min

Lab File: 081606-4.D

Acq: 21 Jun 2025 1:41 pm

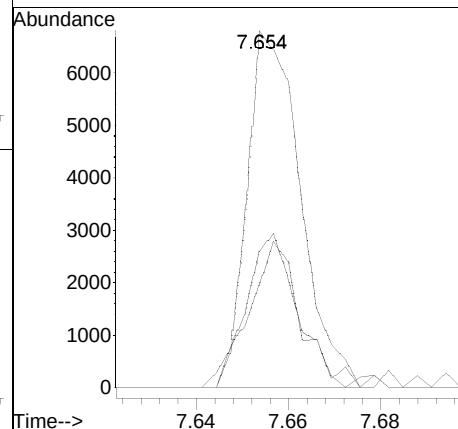
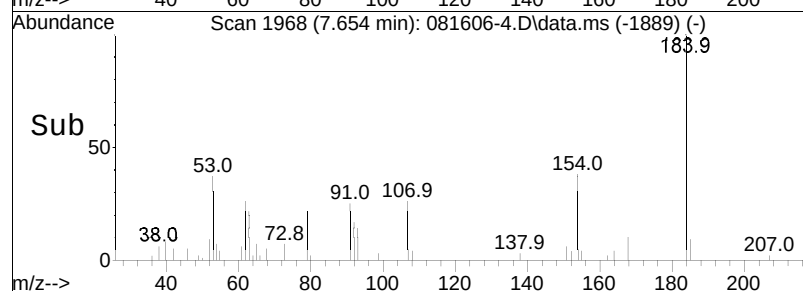
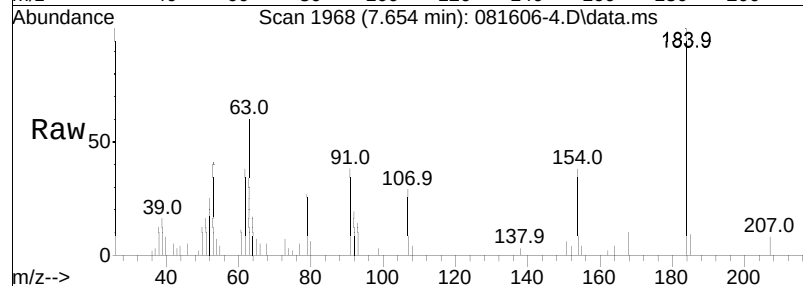
Tgt	Ion:138	Resp:	11230
Ion	Ratio	Lower	Upper
138	100		
92	101.2	93.4	140.2
108	7.1	9.5	14.3#

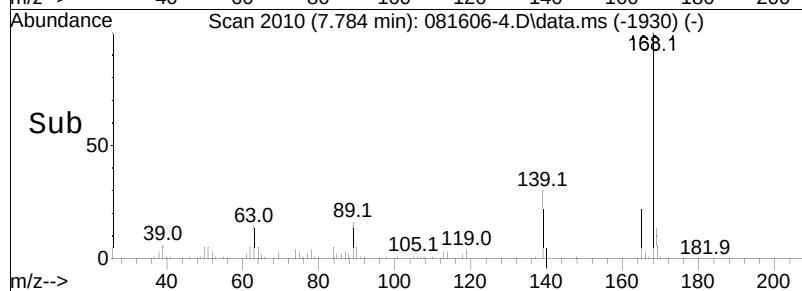
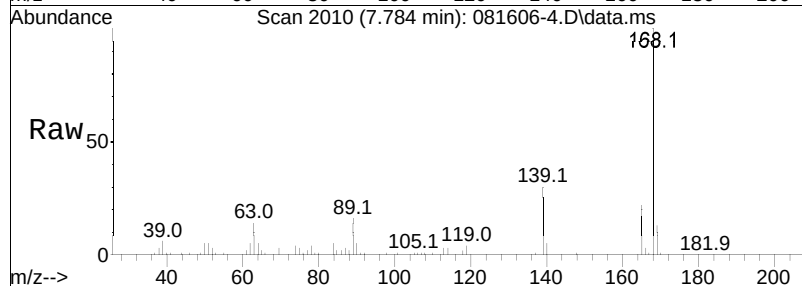
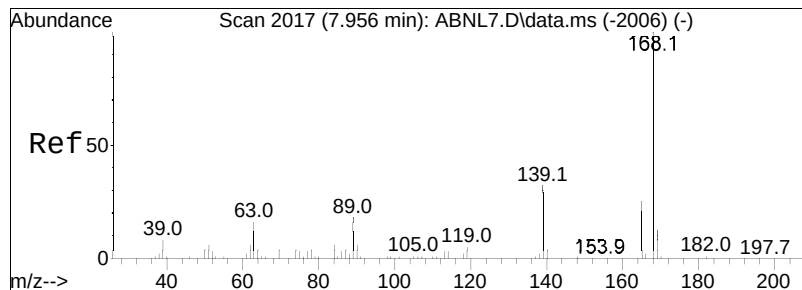




#68
 2,4-Dinitrophenol
 Concen: 1.33 ug/ml
 RT: 7.654 min Scan# 1968
 Delta R.T. -0.003 min
 Lab File: 081606-4.D
 Acq: 21 Jun 2025 1:41 pm

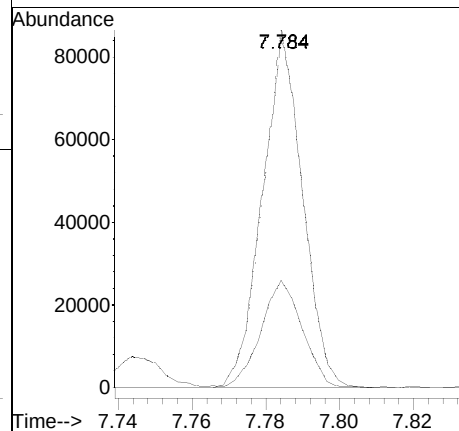
Tgt Ion	Ratio	Lower	Upper
184	100		
107	40.2	37.7	56.5
91	42.1	46.3	69.5#

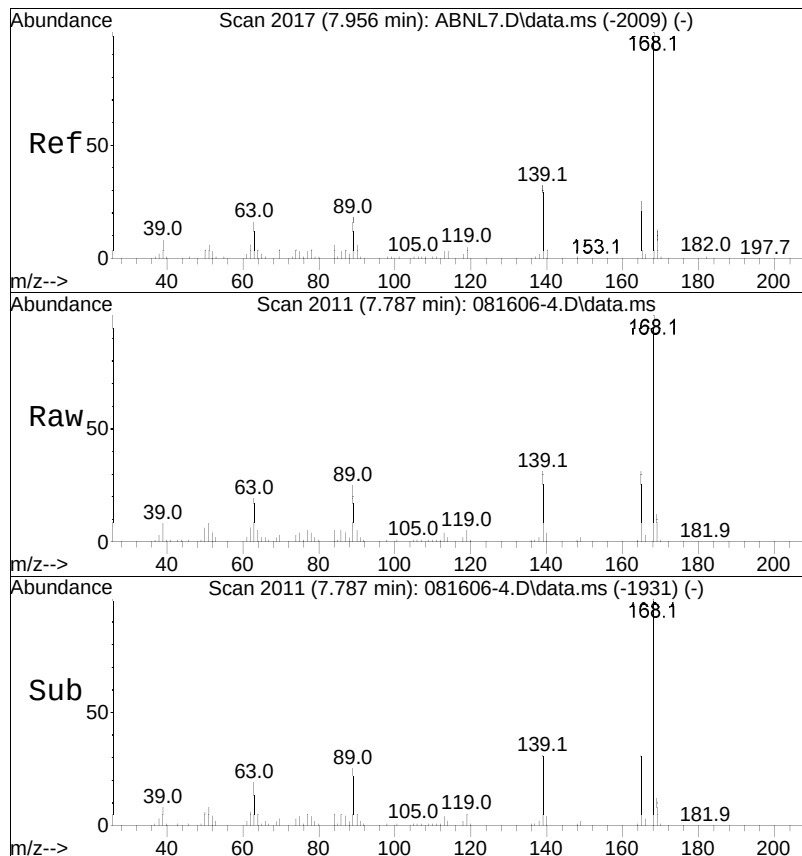




#69
 Dibenzofuran
 Concen: 1.38 ug/ml
 RT: 7.784 min Scan# 2010
 Delta R.T. 0.000 min
 Lab File: 081606-4.D
 Acq: 21 Jun 2025 1:41 pm

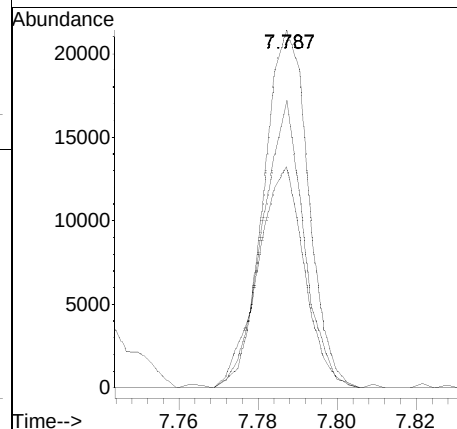
Tgt	Ion	Ratio	Lower	Upper
168	100			
139	31.3	31.4	47.2#	

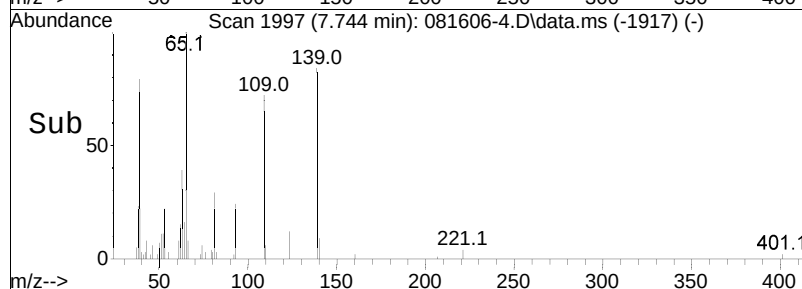
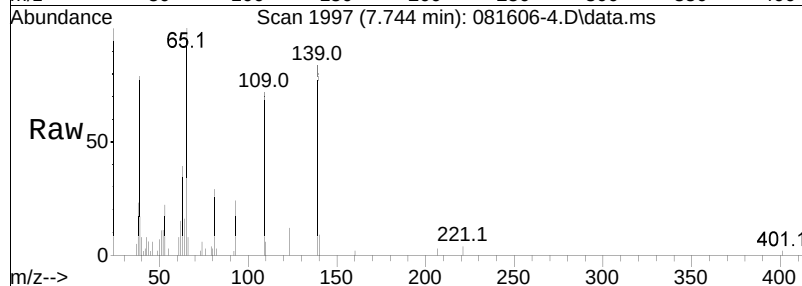
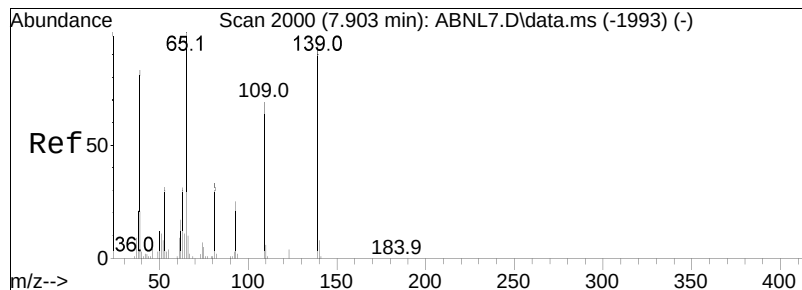




#70
 2,4-Dinitrotoluene
 Concen: 1.68 ug/ml
 RT: 7.787 min Scan# 2011
 Delta R.T. 0.000 min
 Lab File: 081606-4.D
 Acq: 21 Jun 2025 1:41 pm

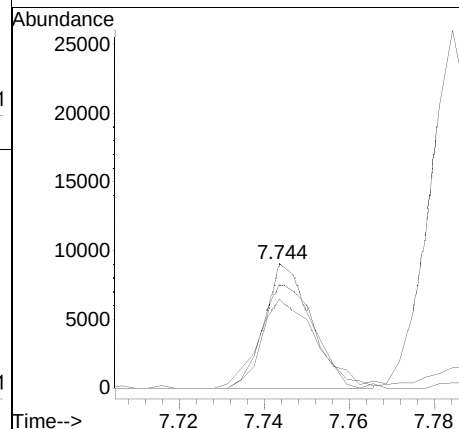
Tgt Ion:	165	Resp:	16826
Ion Ratio	Lower	Upper	
165	100		
89	75.4	72.0	108.0
63	62.0	52.7	79.1

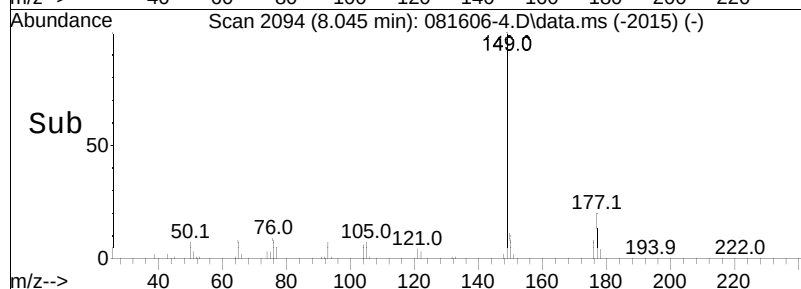
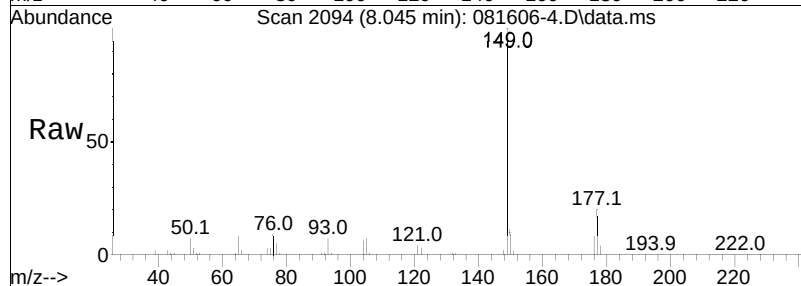
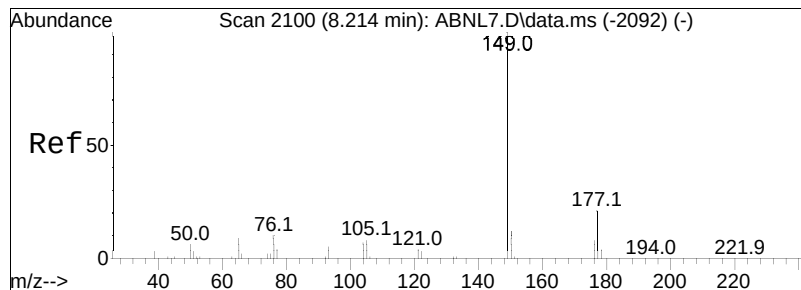




#71
 4-Nitrophenol
 Concen: 1.17 ug/ml
 RT: 7.744 min Scan# 1997
 Delta R.T. 0.000 min
 Lab File: 081606-4.D
 Acq: 21 Jun 2025 1:41 pm

Tgt Ion:	65	Resp:	7221
Ion Ratio	Lower	Upper	
65	100		
109	74.9	47.4	71.2#
139	91.0	76.6	115.0





#74

Diethyl phthalate

Concen: 1.53 ug/ml

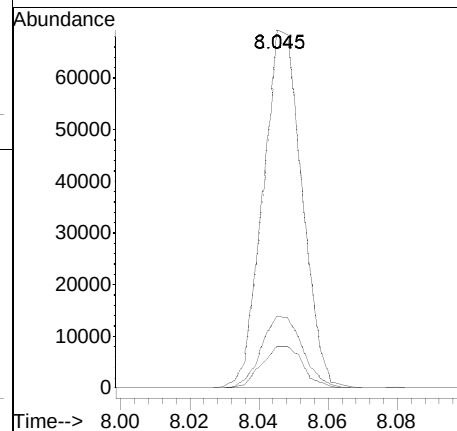
RT: 8.045 min Scan# 2094

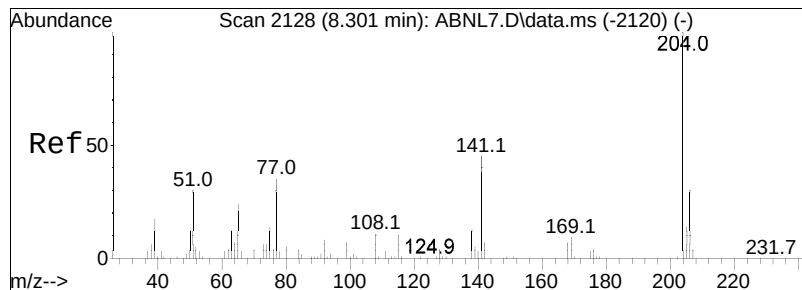
Delta R.T. -0.003 min

Lab File: 081606-4.D

Acq: 21 Jun 2025 1:41 pm

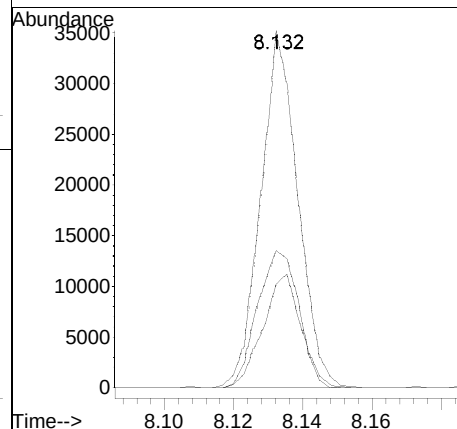
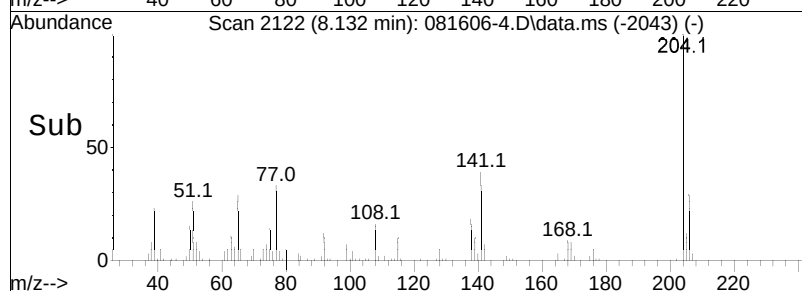
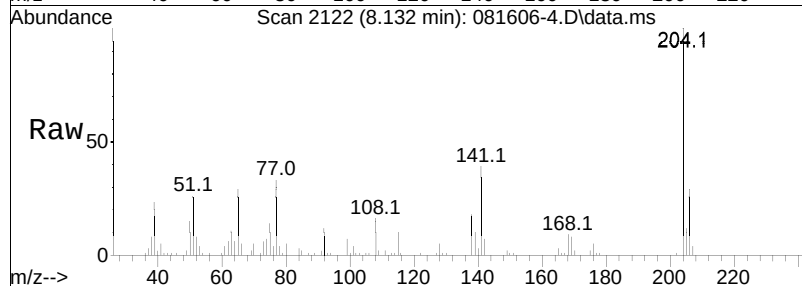
Tgt Ion:	149	Resp:	53757
Ion Ratio	Lower	Upper	
149	100		
177	21.1	16.1	24.1
150	12.3	9.4	14.2

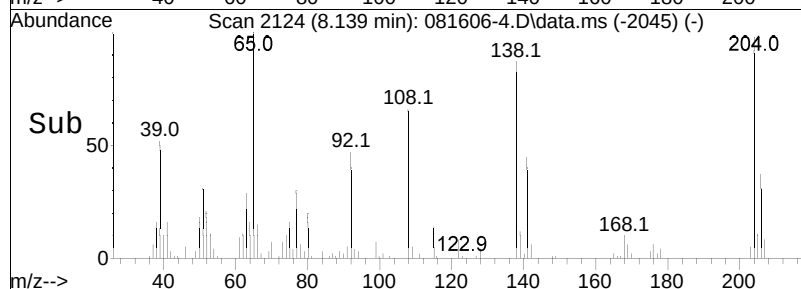
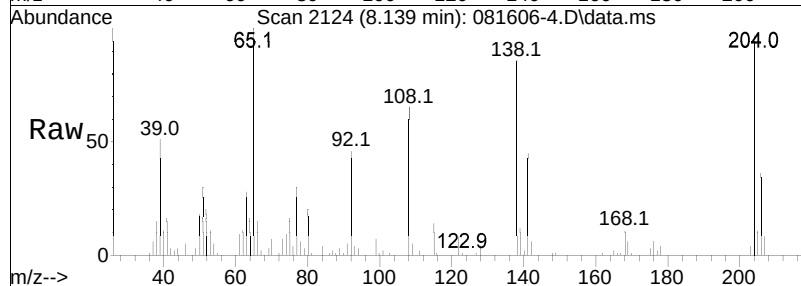
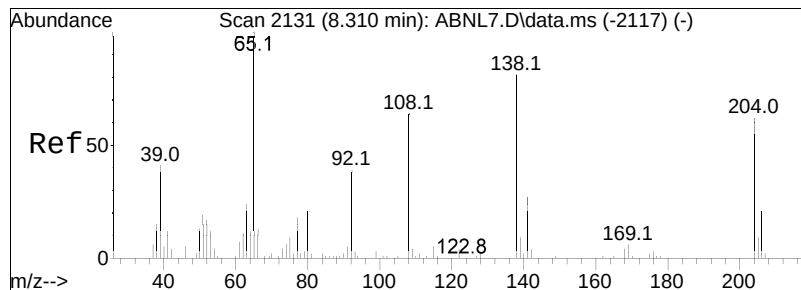




#76
 4-Chlorophenyl phenyl ether
 Concen: 1.37 ug/ml
 RT: 8.132 min Scan# 2122
 Delta R.T. -0.003 min
 Lab File: 081606-4.D
 Acq: 21 Jun 2025 1:41 pm

Tgt Ion	Ratio	Lower	Upper
204	100		
206	32.8	25.8	38.6
141	42.8	53.6	80.4#





#77

4-Nitroaniline

Concen: 1.77 ug/ml

RT: 8.139 min Scan# 2124

Delta R.T. -0.003 min

Lab File: 081606-4.D

Acq: 21 Jun 2025 1:41 pm

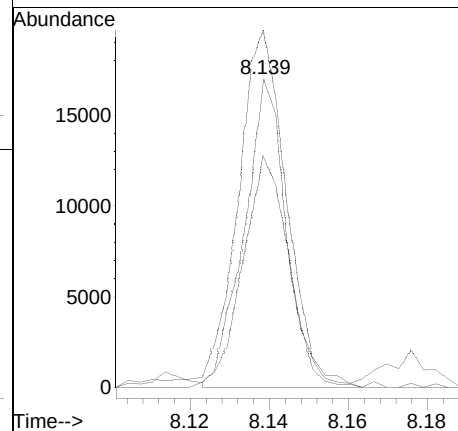
Tgt Ion:138 Resp: 12722

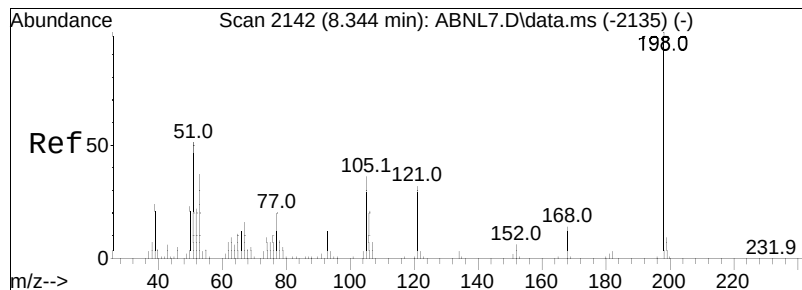
Ion Ratio Lower Upper

138 100

108 80.3 52.1 78.1#

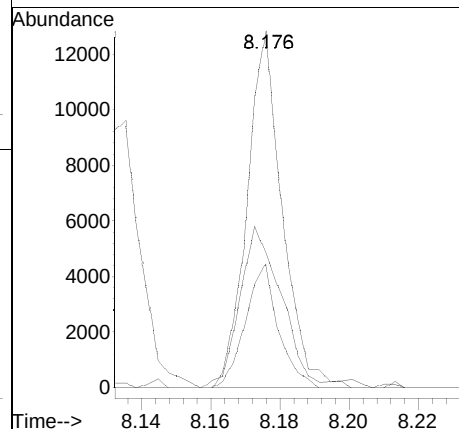
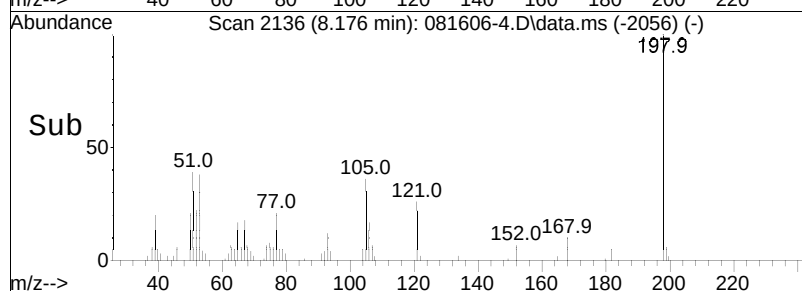
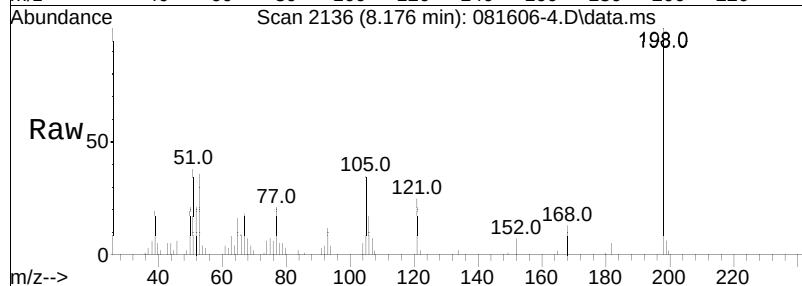
65 133.7 115.0 172.6

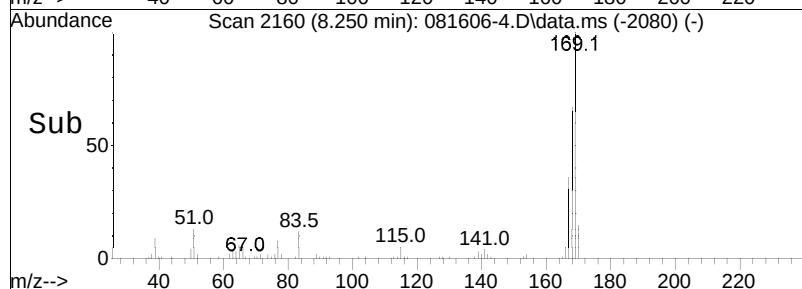
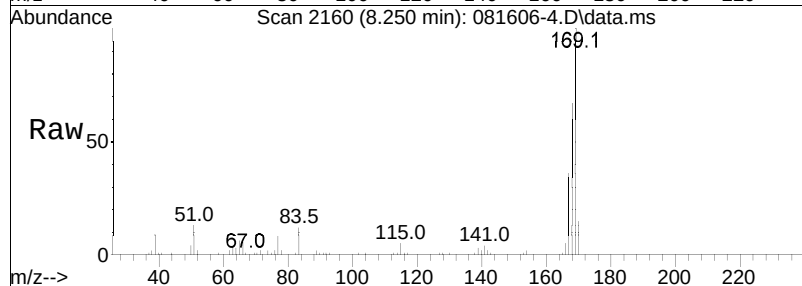
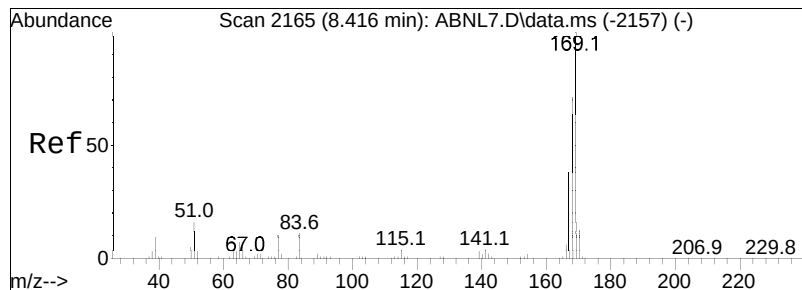




#78
 4,6-Dinitro-o-cresol
 Concen: 1.47 ug/ml
 RT: 8.176 min Scan# 2136
 Delta R.T. 0.000 min
 Lab File: 081606-4.D
 Acq: 21 Jun 2025 1:41 pm

Tgt Ion	Ratio	Lower	Upper
198	100		
51	53.6	76.0	114.0#
105	32.4	45.6	68.4#





#79

NDPA/DPA

Concen: 1.46 ug/ml

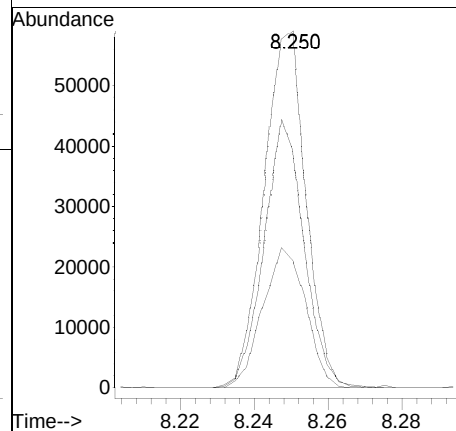
RT: 8.250 min Scan# 2160

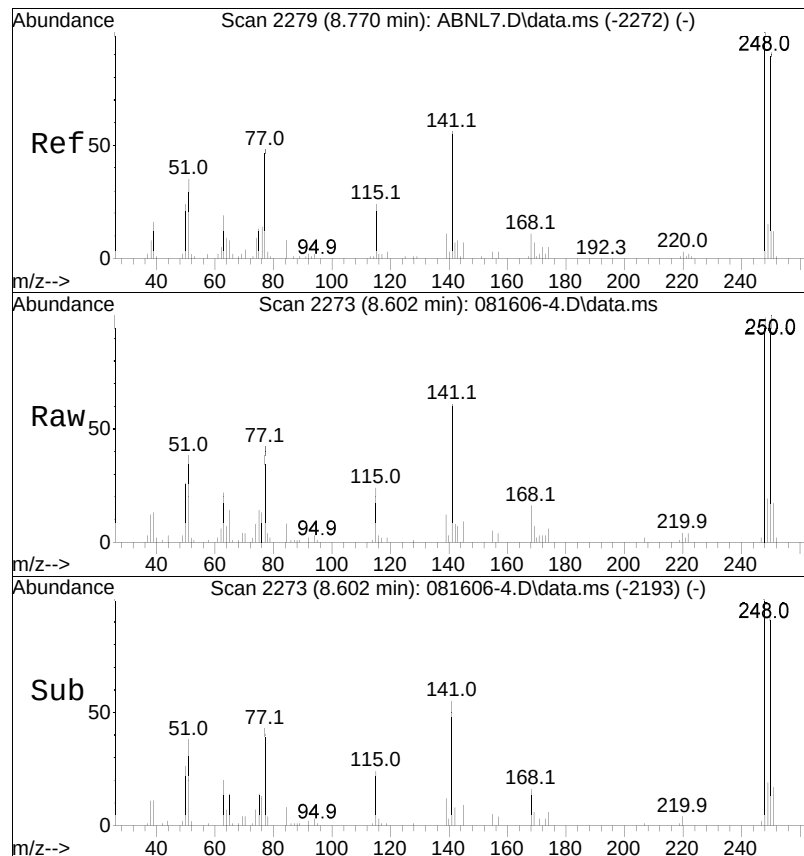
Delta R.T. 0.000 min

Lab File: 081606-4.D

Acq: 21 Jun 2025 1:41 pm

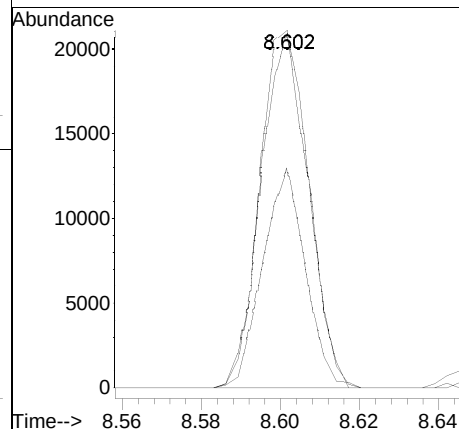
Tgt Ion:	169	Resp:	46633
Ion Ratio	Lower	Upper	
169	100		
168	71.6	54.0	81.0
167	40.4	28.6	42.8

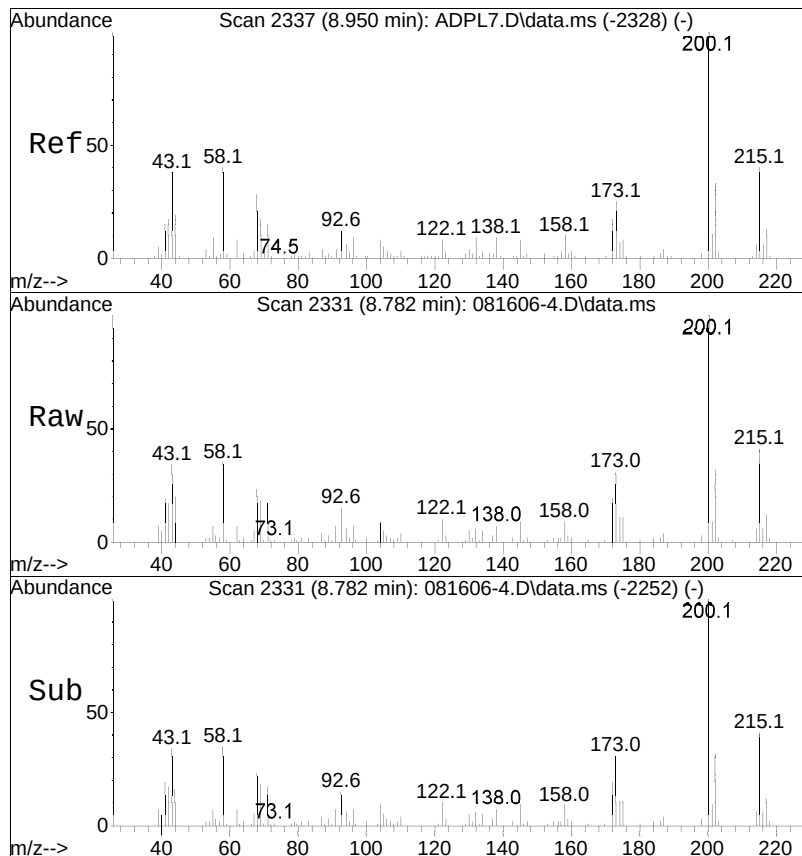




#82
 4-Bromophenyl phenyl ether
 Concen: 1.47 ug/ml
 RT: 8.602 min Scan# 2273
 Delta R.T. 0.000 min
 Lab File: 081606-4.D
 Acq: 21 Jun 2025 1:41 pm

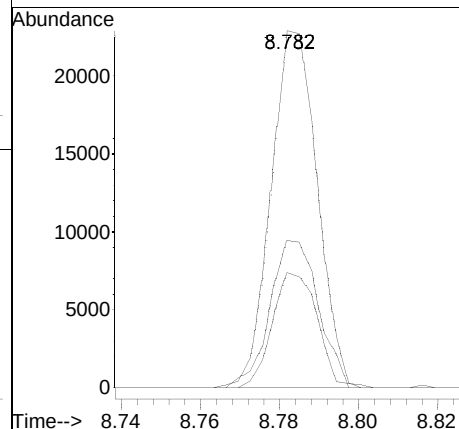
Tgt Ion:	248	Resp:	17574
Ion Ratio	Lower	Upper	
248	100		
141	55.3	76.6	114.8#
250	101.1	77.3	115.9

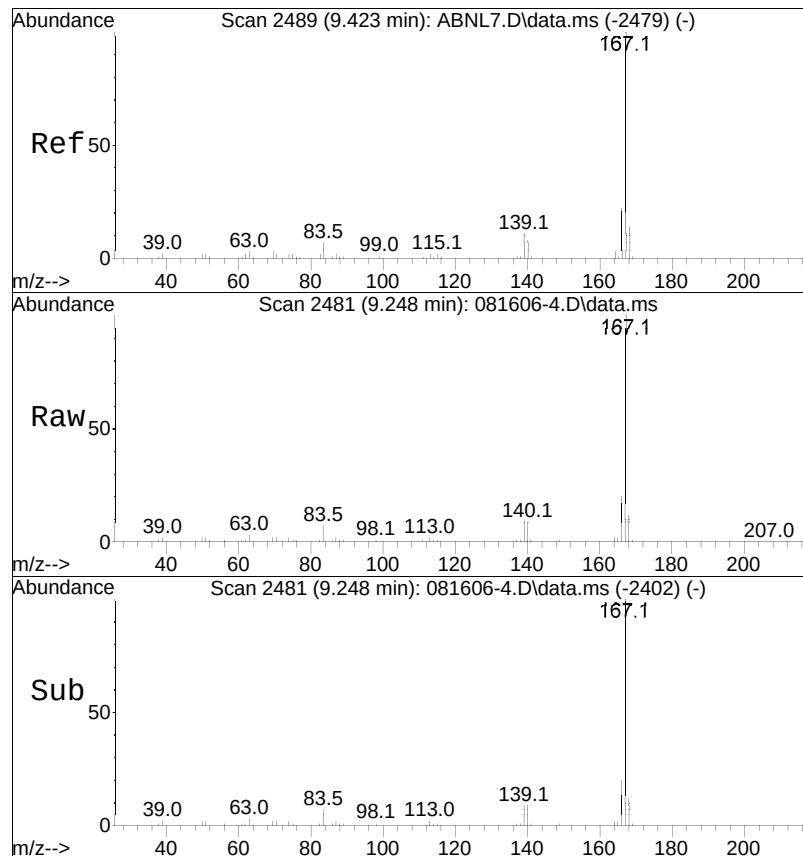




#89
 Atrazine
 Concen: 1.74 ug/ml
 RT: 8.782 min Scan# 2331
 Delta R.T. -0.003 min
 Lab File: 081606-4.D
 Acq: 21 Jun 2025 1:41 pm

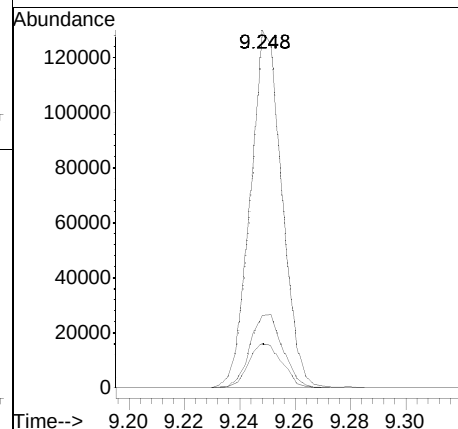
Tgt	Ion:200	Resp:	18505
Ion	Ratio	Lower	Upper
200	100		
202	31.4	25.8	38.6
215	43.2	40.2	60.4

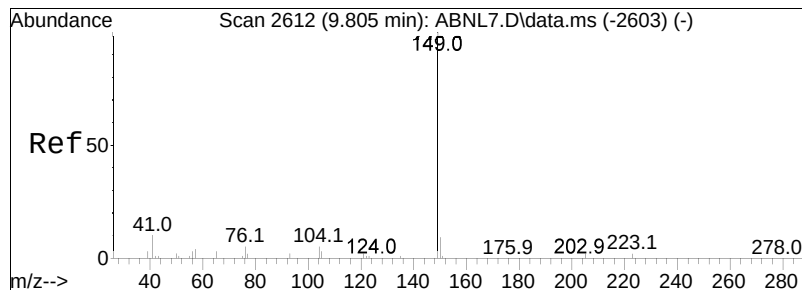




#93
 Carbazole
 Concen: 1.64 ug/ml
 RT: 9.248 min Scan# 2481
 Delta R.T. -0.003 min
 Lab File: 081606-4.D
 Acq: 21 Jun 2025 1:41 pm

Tgt Ion	Ratio	Lower	Upper
167	100		
168	13.2	10.6	15.8
166	21.4	17.4	26.0





#94

Di-n-butylphthalate

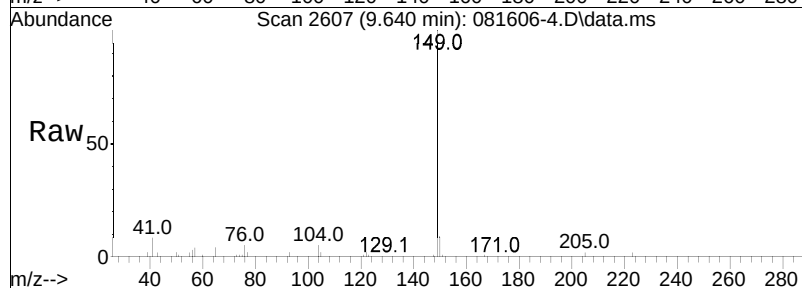
Concen: 1.50 ug/ml

RT: 9.640 min Scan# 2607

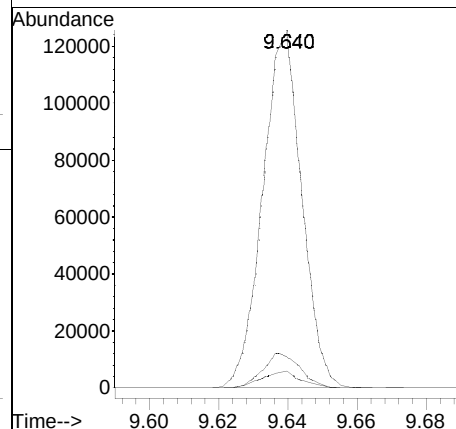
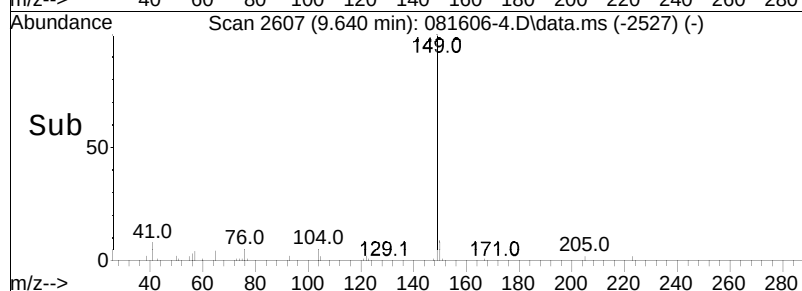
Delta R.T. 0.000 min

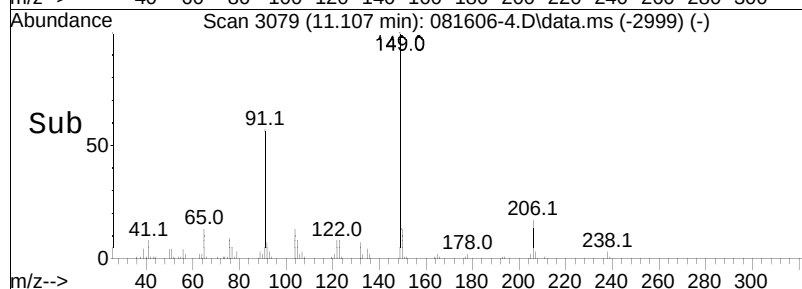
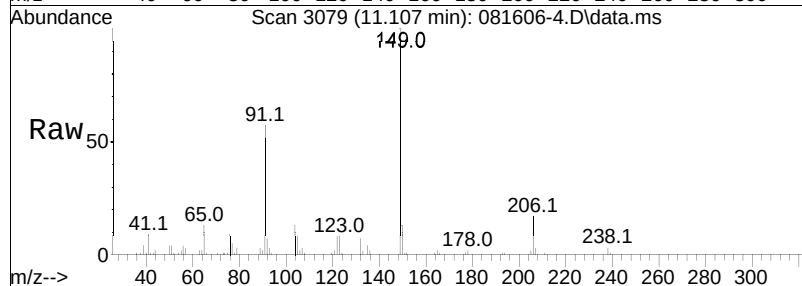
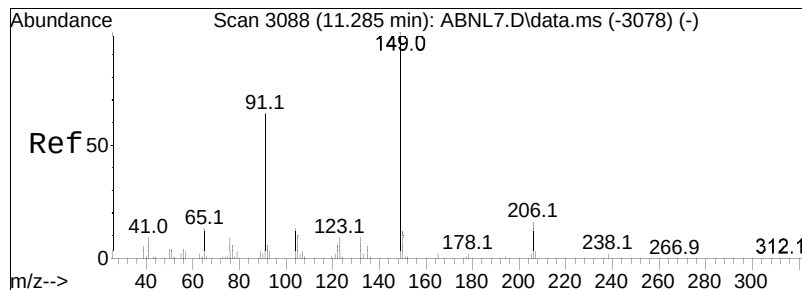
Lab File: 081606-4.D

Acq: 21 Jun 2025 1:41 pm



Tgt Ion:	149	Resp:	97100
Ion Ratio	Lower	Upper	
149	100		
150	9.3	7.0	10.6
104	4.8	4.5	6.7





#99

Butyl benzyl phthalate

Concen: 1.71 ug/ml

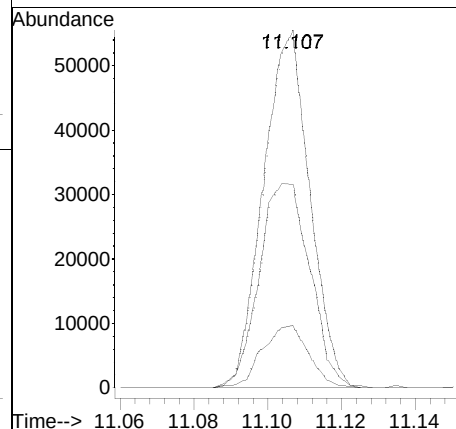
RT: 11.107 min Scan# 3079

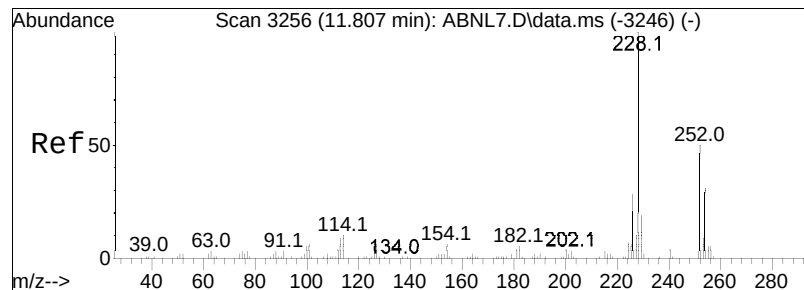
Delta R.T. 0.000 min

Lab File: 081606-4.D

Acq: 21 Jun 2025 1:41 pm

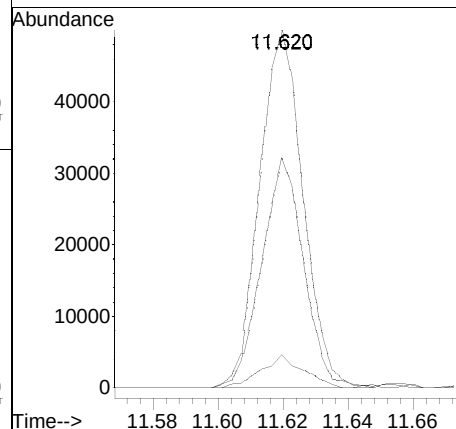
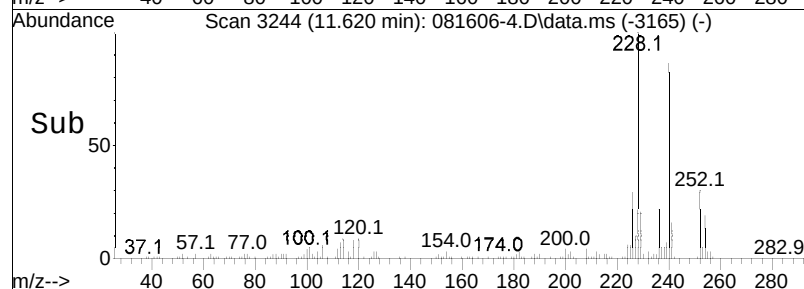
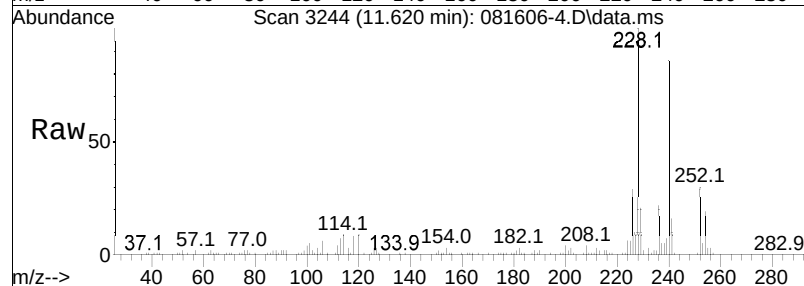
Tgt Ion:	149	Resp:	47981
Ion Ratio	Lower	Upper	
149	100		
91	62.8	63.3	94.9#
206	17.7	13.9	20.9

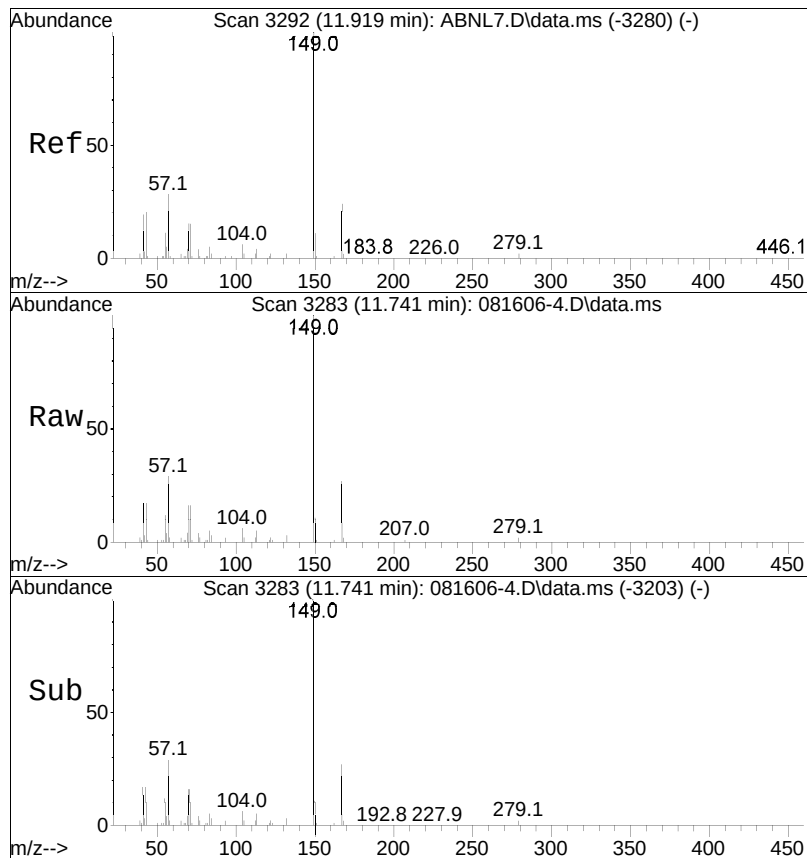




#108
 3,3'-Dichlorobenzidine
 Concen: 1.32 ug/ml
 RT: 11.620 min Scan# 3244
 Delta R.T. -0.003 min
 Lab File: 081606-4.D
 Acq: 21 Jun 2025 1:41 pm

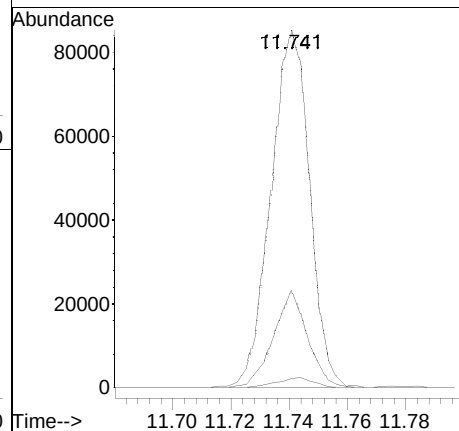
Tgt Ion	Ratio	Lower	Upper
252	100		
126	9.1	14.5	21.7#
254	62.2	51.2	76.8

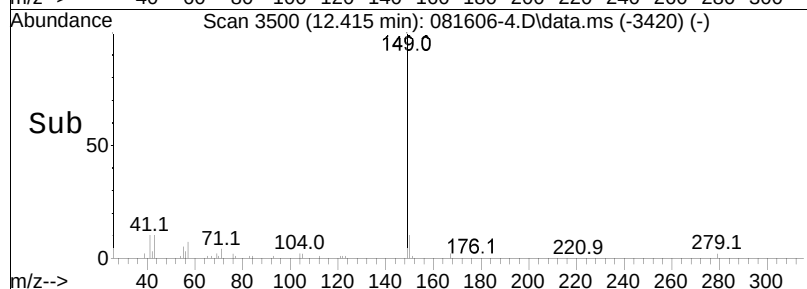
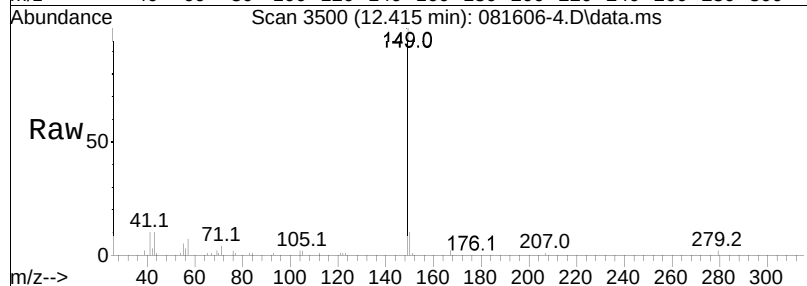
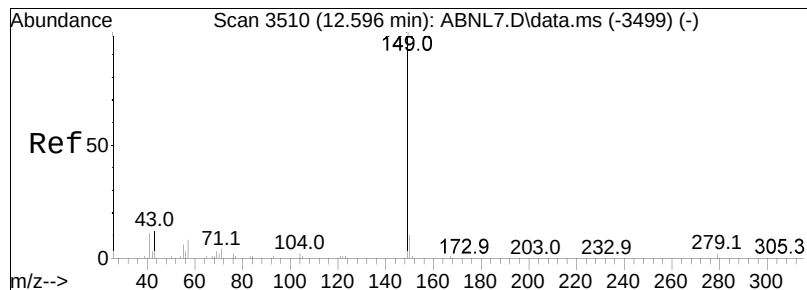




#110
 Bis(2-ethylhexyl)phthalate
 Concen: 1.56 ug/ml
 RT: 11.741 min Scan# 3283
 Delta R.T. 0.000 min
 Lab File: 081606-4.D
 Acq: 21 Jun 2025 1:41 pm

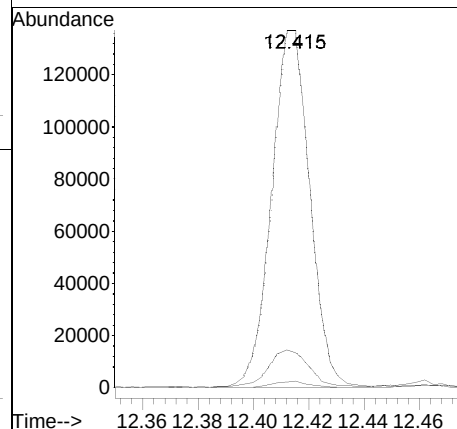
Tgt Ion	Ratio	Lower	Upper
149	100		
167	24.0	22.1	33.1
279	2.4	3.0	4.4#





#111
 Di-n-octylphthalate
 Concen: 1.61 ug/ml
 RT: 12.415 min Scan# 3500
 Delta R.T. 0.000 min
 Lab File: 081606-4.D
 Acq: 21 Jun 2025 1:41 pm

Tgt Ion	Ratio	Lower	Upper
149	100		
43	11.6	18.8	28.2#
167	1.5	1.3	1.9



Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250621RVT\
 Data File : 081606-5.D
 Acq On : 21 Jun 2025 2:03 pm
 Operator : Dakota:smz
 Sample : WG2081606-5,32,,gmr
 Misc : WG2081719,WG2081606,ical22203
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 21 14:21:07 2025
 Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sat Jun 21 07:32:38 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250621RVT\ABN0621.D
 : 2 - I:\8270\Dakota\250621RVT\ADP0621.D
 : 3 - I:\8270\Dakota\250621RVT\AP90621.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.654	152	38868	4.000	ug/ml	# 0.00
Standard Area 1 = 34284			Recovery =	113.37%		
27) IS2_1,4-Dichlorobenzen...	4.654	152	38868	4.000	ug/ml	# 0.00
Standard Area 3 = 33532			Recovery =	115.91%		
37) IS1_Naphthalene-d8	5.885	136	131178	4.000	ug/ml	# 0.00
Standard Area 1 = 122540			Recovery =	107.05%		
57) IS2_Naphthalene-d8	5.885	136	131178	4.000	ug/ml	# 0.00
Standard Area 3 = 118622			Recovery =	110.58%		
65) IS1_Acenaphthene-d10	7.585	164	99283	4.000	ug/ml	0.00
Standard Area 1 = 91691			Recovery =	108.28%		
85) IS2_Acenaphthene-d10	7.585	164	99283	4.000	ug/ml	0.00
Standard Area 3 = 90024			Recovery =	110.29%		
88) IS3_Acenaphthene-d10	7.585	164	99283	4.000	ug/ml	0.00
Standard Area 2 = 78881			Recovery =	125.86%		
90) IS1_Phenanthrene-d10	9.012	188	243860	4.000	ug/ml	0.00
Standard Area 1 = 216771			Recovery =	112.50%		
102) IS3_Phenanthrene-d10	9.012	188	243860	4.000	ug/ml	0.00
Standard Area 2 = 198240			Recovery =	123.01%		
106) IS1_Chrysene-d12	11.629	240	309838	4.000	ug/ml	# 0.00
Standard Area 1 = 275522			Recovery =	112.45%		
115) IS1_Perylene-d12	13.084	264	373294	4.000	ug/ml	0.00
Standard Area 1 = 328421			Recovery =	113.66%		
System Monitoring Compounds						
4) 2-Fluorophenol	3.383	112	9514	0.953	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	47.65%		
7) Phenol-d6	4.337	99	9136	0.742	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	37.10%		
19) Nitrobenzene-d5	5.192	82	8621	0.653	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	65.30%		
48) 2-Fluorobiphenyl	6.954	172	23714	0.694	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	69.40%		
81) 2,4,6-Tribromophenol	8.347	330	11305	1.934	ug/ml	0.00
Spiked Amount 2.000	Range 15 - 110		Recovery =	96.70%		
98) 4-Terphenyl-d14	10.585	244	52603	0.807	ug/ml	0.00
Spiked Amount 1.000	Range 30 - 130		Recovery =	80.70%		

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250621RVT\
 Data File : 081606-5.D
 Acq On : 21 Jun 2025 2:03 pm
 Operator : Dakota:smz
 Sample : WG2081606-5,32,,gmr
 Misc : WG2081719,WG2081606,ical22203
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 21 14:21:07 2025
 Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sat Jun 21 07:32:38 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250621RVT\ABN0621.D
 : 2 - I:\8270\Dakota\250621RVT\ADP0621.D
 : 3 - I:\8270\Dakota\250621RVT\AP90621.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Target Compounds						Qvalue
6) 2-Chlorophenol	4.449	128	14952	1.354	ug/ml	91
8) Phenol	4.347	94	11664	0.778	ug/ml#	54
14) Bis(2-chloroisopropyl)...	4.956	45	24791	1.192	ug/ml#	96
15) 2-Methylphenol	4.937	108	12112	1.230	ug/ml	100
17) n-Nitrosodi-n-propylamine	5.071	70	12048	1.366	ug/ml#	88
18) 3-Methylphenol/4-Methy...	5.089	108	12168	1.153	ug/ml	91
20) Nitrobenzene	5.211	77	16434	1.272	ug/ml	95
21) Isophorone	5.453	82	30937	1.304	ug/ml#	92
22) 2-Nitrophenol	5.528	139	8793	1.542	ug/ml	94
23) 2,4-Dimethylphenol	5.599	107	11312	0.996	ug/ml	92
24) Bis(2-chloroethoxy)met...	5.686	93	17931	1.283	ug/ml#	93
25) 2,4-Dichlorophenol	5.764	162	17933	1.522	ug/ml#	93
28) Benzaldehyde	4.222	105	11752	1.441	ug/ml	90
29) Acetophenone	5.052	105	23738	1.649	ug/ml#	83
40) 4-Chloroaniline	5.975	65	5495	1.196	ug/ml	96
42) p-Chloro-m-cresol	6.473	107	15147	1.623	ug/ml	93
45) Hexachlorocyclopentadiene	6.755	237	5635	0.504	ug/ml	98
46) 2,4,6-Trichlorophenol	6.870	196	15513	1.602	ug/ml	93
47) 2,4,5-Trichlorophenol	6.898	196	19640	1.828	ug/ml	99
50) 2-Nitroaniline	7.159	138	11756	1.674	ug/ml	91
53) Dimethyl phthalate	7.358	163	52149	1.572	ug/ml#	97
55) 2,6-Dinitrotoluene	7.402	165	11307	1.703	ug/ml#	73
62) Caprolactam	6.274	55	3113	0.561	ug/ml#	67
63) 1,2,4,5-Tetrachloroben...	6.752	216	18126	1.245	ug/ml#	94
64) Biphenyl	7.044	154	41415	1.329	ug/ml	97
66) 3-Nitroaniline	7.554	138	9517	1.408	ug/ml	93
68) 2,4-Dinitrophenol	7.657	184	5665	1.393	ug/ml#	76
69) Dibenzofuran	7.784	168	61443	1.321	ug/ml	89
70) 2,4-Dinitrotoluene	7.787	165	15407	1.550	ug/ml	87
71) 4-Nitrophenol	7.744	65	7279	1.187	ug/ml#	90
74) Diethyl phthalate	8.045	149	53016	1.523	ug/ml	99
76) 4-Chlorophenyl phenyl ...	8.132	204	25684	1.368	ug/ml#	80
77) 4-Nitroaniline	8.139	138	12615	1.777	ug/ml#	89
78) 4,6-Dinitro-o-cresol	8.176	198	9310	1.514	ug/ml#	59
79) NDPA/DPA	8.247	169	46182	1.459	ug/ml	93
82) 4-Bromophenyl phenyl e...	8.605	248	17106	1.442	ug/ml#	74

Quantitation Report (QT Reviewed)

Data Path : I:\8270\Dakota\250621RVT\
 Data File : 081606-5.D
 Acq On : 21 Jun 2025 2:03 pm
 Operator : Dakota:smz
 Sample : WG2081606-5,32,,gmr
 Misc : WG2081719,WG2081606,ical22203
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 21 14:21:07 2025
 Quant Method : I:\8270\Dakota\250621RVT\FS250416RVT_Dakota.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Sat Jun 21 07:32:38 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\Dakota\250621RVT\ABN0621.D
 : 2 - I:\8270\Dakota\250621RVT\ADP0621.D
 : 3 - I:\8270\Dakota\250621RVT\AP90621.D
 Sub List : 8270TCL_combo_REV1 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
89)	Atrazine	8.782	200	18069	1.719	ug/ml	91
93)	Carbazole	9.251	167	99619	1.541	ug/ml	99
94)	Di-n-butylphthalate	9.640	149	97743	1.457	ug/ml#	97
99)	Butyl benzyl phthalate	11.107	149	47652	1.637	ug/ml	87
108)	3,3'-Dichlorobenzidine	11.623	252	47560	1.322	ug/ml#	96
110)	Bis(2-ethylhexyl)phtha...	11.741	149	75280	1.470	ug/ml#	94
111)	Di-n-octylphthalate	12.415	149	126399	1.519	ug/ml#	78

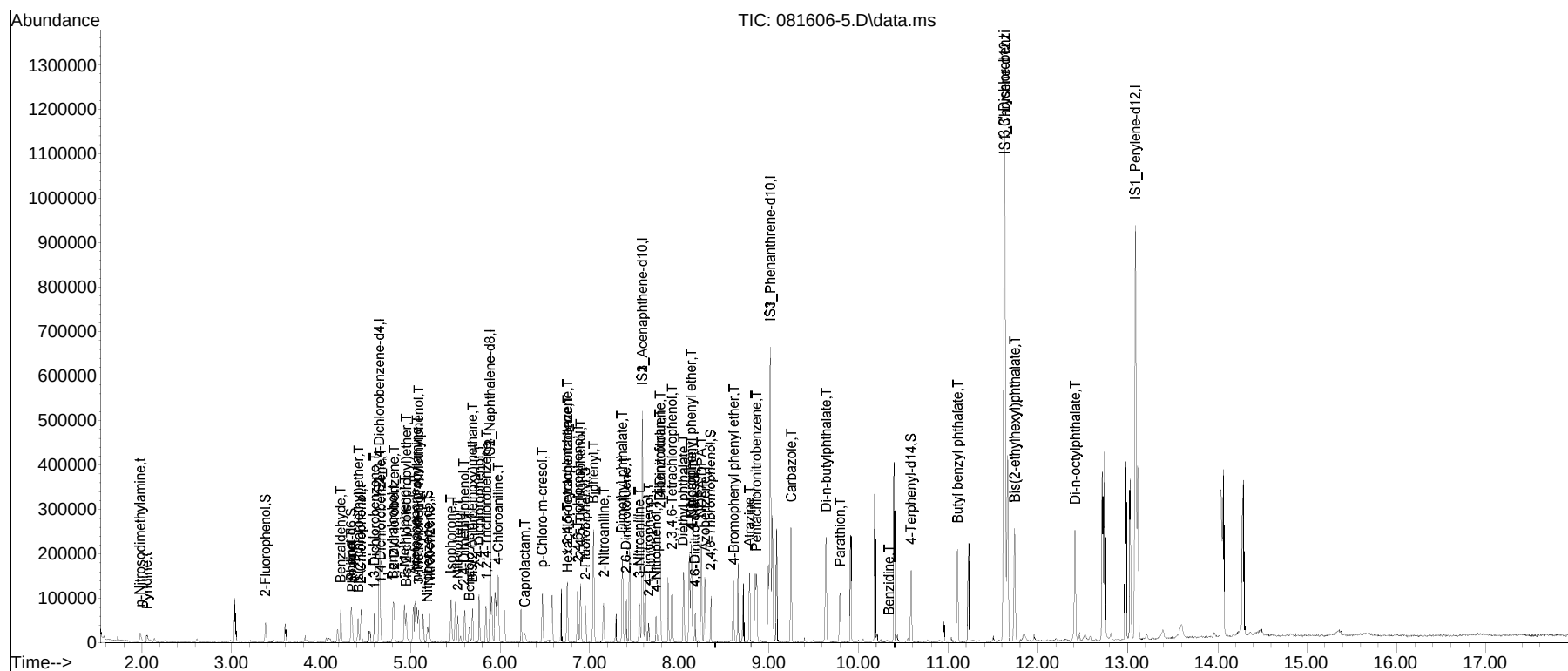
(#) = qualifier out of range (m) = manual integration (+) = signals summed

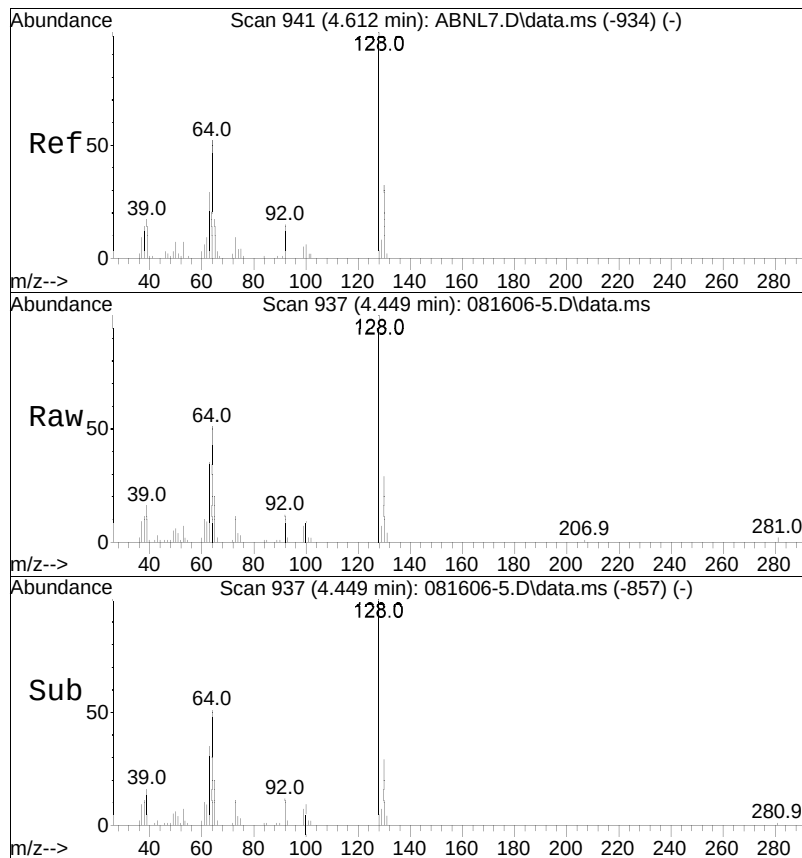
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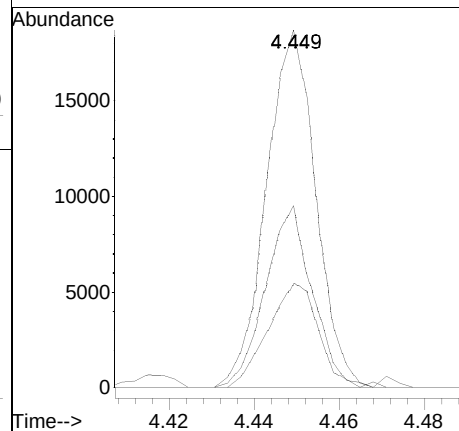
Sub List : 8270IC\82700bDaRev1\250621RV7MAP90621.D•

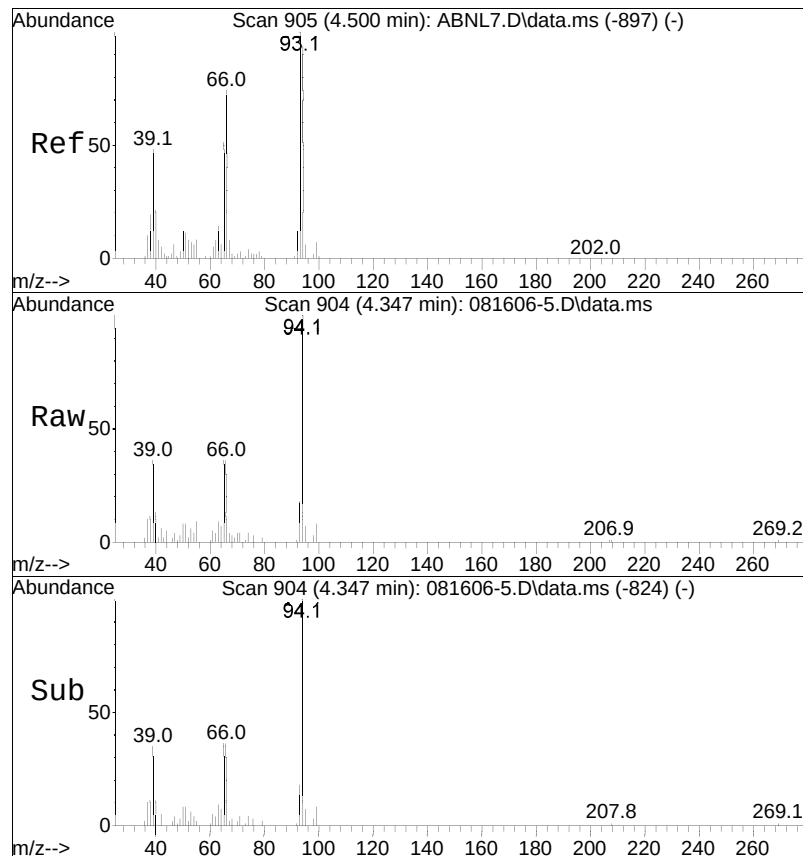




#6
 2-Chlorophenol
 Concen: 1.35 ug/ml
 RT: 4.449 min Scan# 937
 Delta R.T. 0.000 min
 Lab File: 081606-5.D
 Acq: 21 Jun 2025 2:03 pm

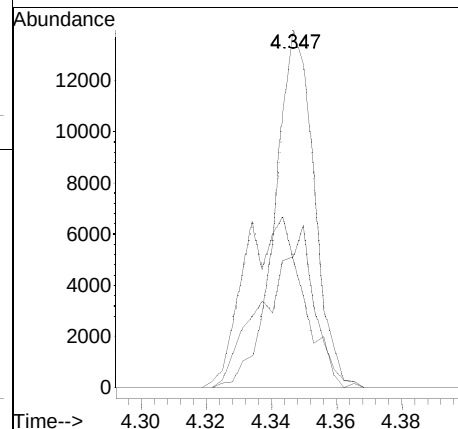
Tgt	Ion:128	Resp:	14952
Ion	Ratio	Lower	Upper
128	100		
64	48.4	45.1	67.7
130	30.2	26.2	39.4

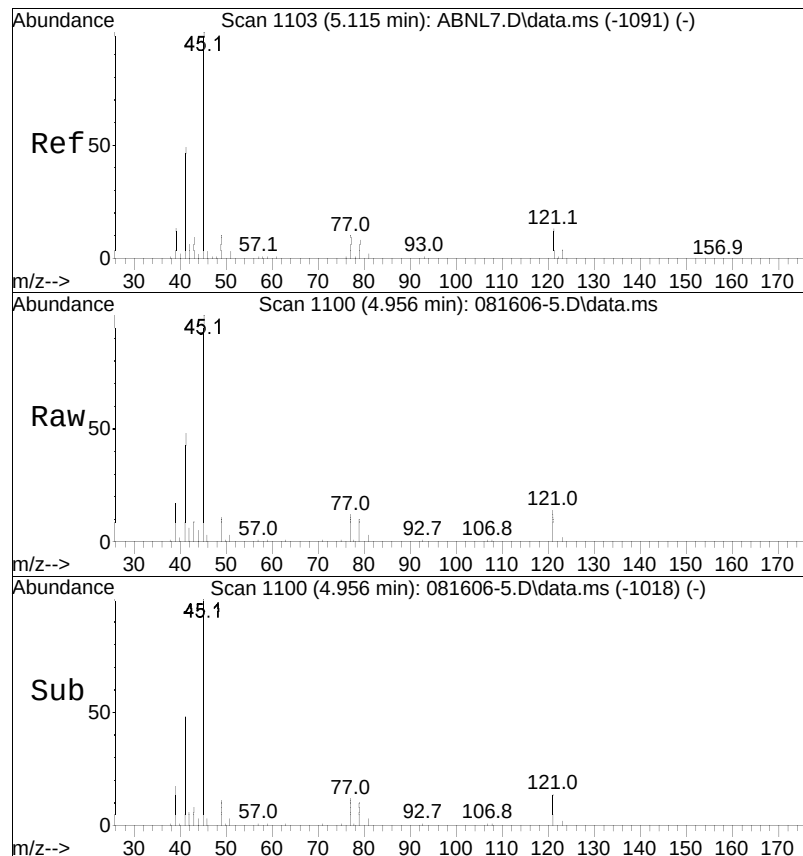




#8
 Phenol
 Concen: 0.78 ug/ml
 RT: 4.347 min Scan# 904
 Delta R.T. 0.000 min
 Lab File: 081606-5.D
 Acq: 21 Jun 2025 2:03 pm

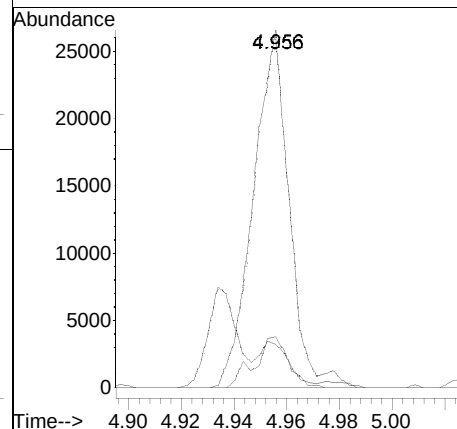
Tgt Ion:	94	Resp:	11664
Ion Ratio	Lower	Upper	
94	100		
65	49.7	26.0	39.0#
66	78.6	33.8	50.8#

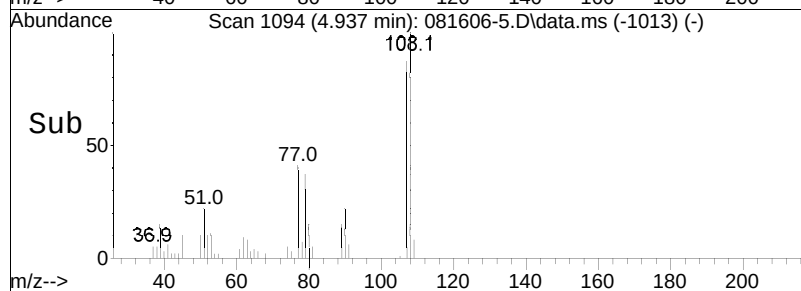
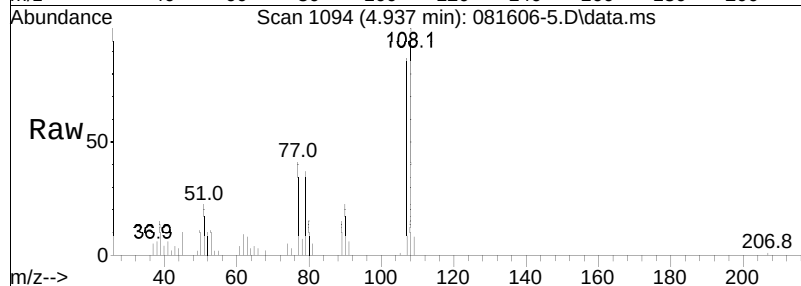
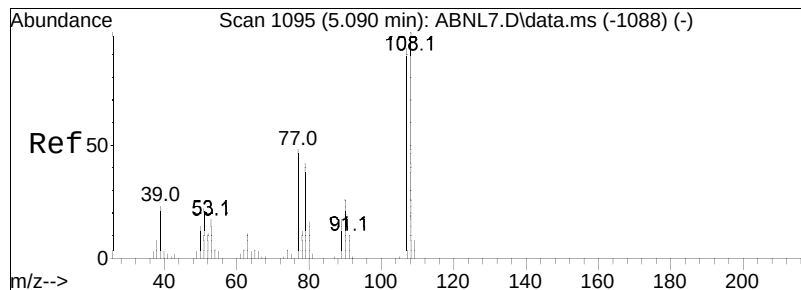




#14
 Bis(2-chloroisopropyl)ether
 Concen: 1.19 ug/ml
 RT: 4.956 min Scan# 1100
 Delta R.T. 0.006 min
 Lab File: 081606-5.D
 Acq: 21 Jun 2025 2:03 pm

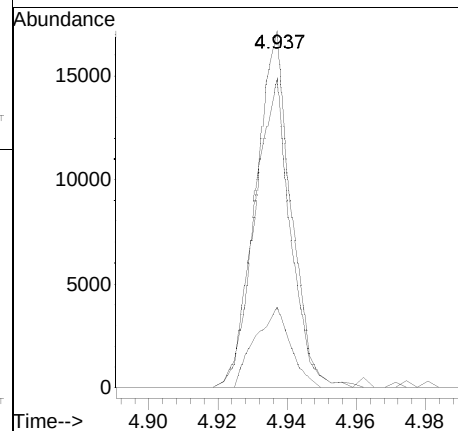
Tgt Ion	Ratio	Lower	Upper
45	100		
121	13.7	9.8	14.6
77	9.4	6.1	9.1#

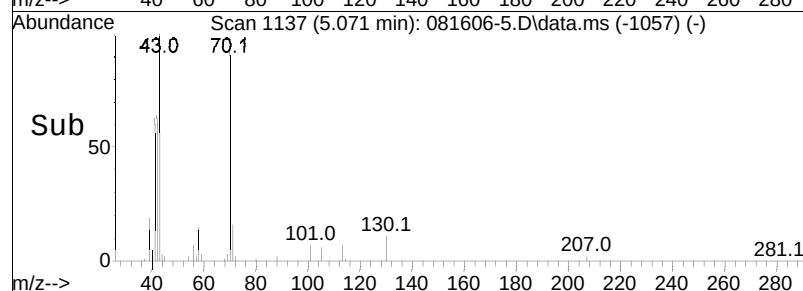
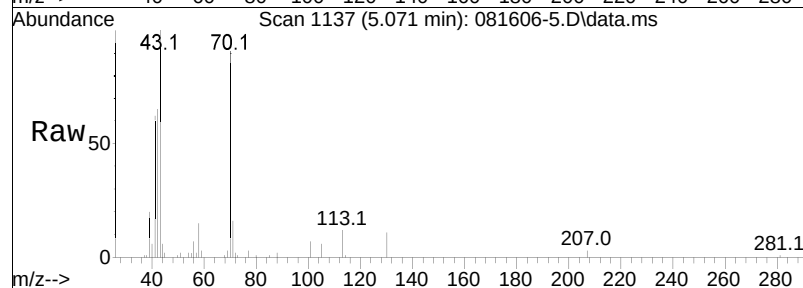
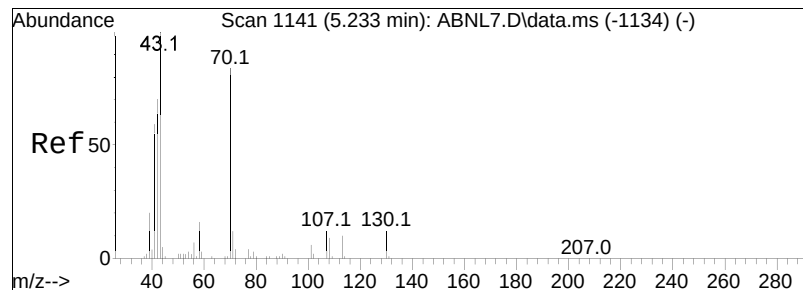




#15
 2-Methylphenol
 Concen: 1.23 ug/ml
 RT: 4.937 min Scan# 1094
 Delta R.T. 0.003 min
 Lab File: 081606-5.D
 Acq: 21 Jun 2025 2:03 pm

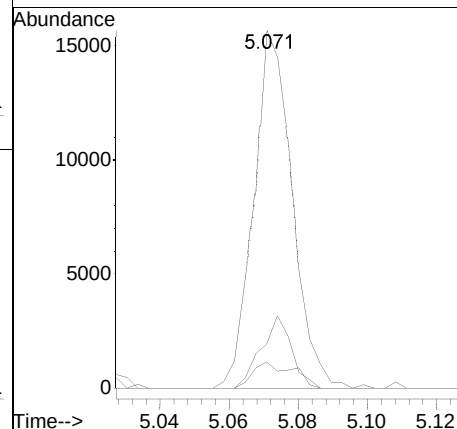
Tgt Ion	Ratio	Lower	Upper
108	100		
107	88.4	70.7	106.1
90	22.6	18.7	28.1

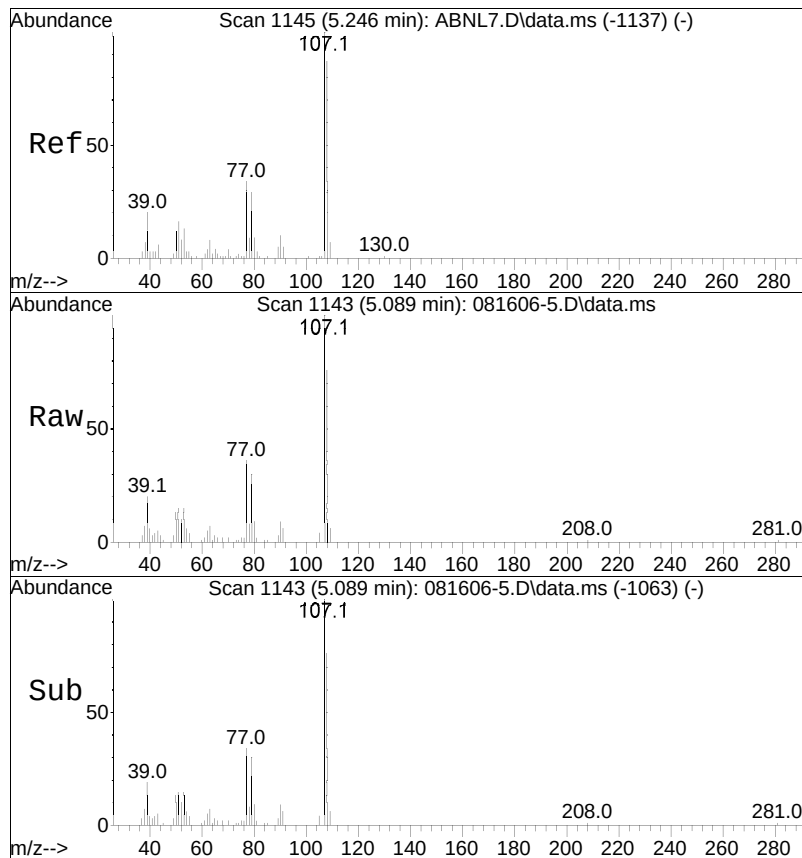




#17
 n-Nitrosodi-n-propylamine
 Concen: 1.37 ug/ml
 RT: 5.071 min Scan# 1137
 Delta R.T. 0.000 min
 Lab File: 081606-5.D
 Acq: 21 Jun 2025 2:03 pm

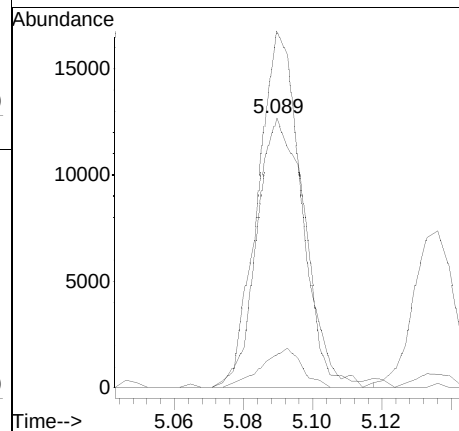
Tgt Ion	Ratio	Lower	Upper
70	100		
130	16.0	18.2	27.4#
101	7.5	7.8	11.8#

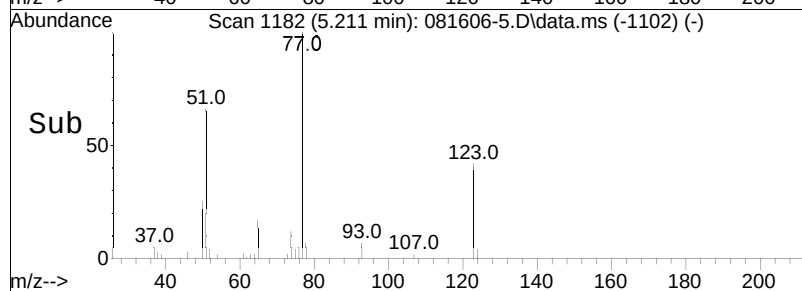
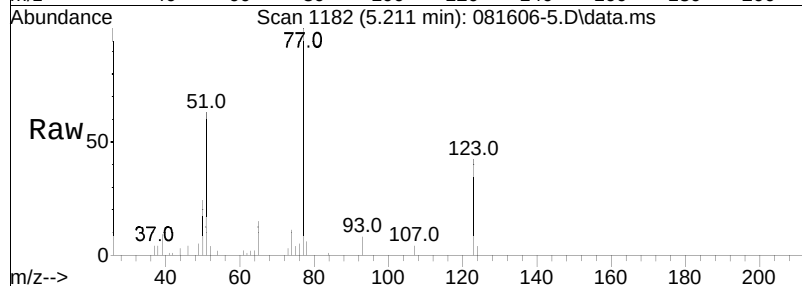
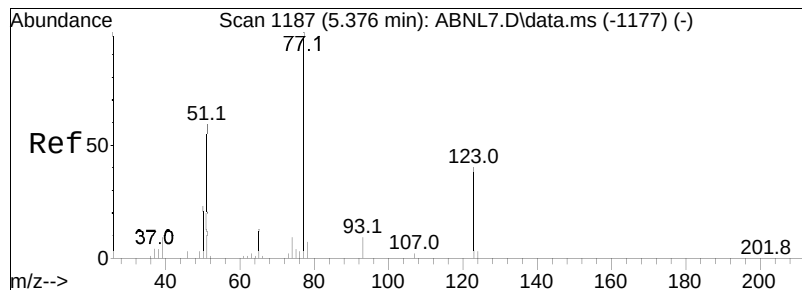




#18
 3-Methylphenol/4-Methylphenol
 Concen: 1.15 ug/ml
 RT: 5.089 min Scan# 1143
 Delta R.T. 0.000 min
 Lab File: 081606-5.D
 Acq: 21 Jun 2025 2:03 pm

Tgt Ion	Ratio	Lower	Upper
108	100		
107	120.7	88.6	132.8
90	12.3	8.8	13.2





#20

Nitrobenzene

Concen: 1.27 ug/ml

RT: 5.211 min Scan# 1182

Delta R.T. 0.000 min

Lab File: 081606-5.D

Acq: 21 Jun 2025 2:03 pm

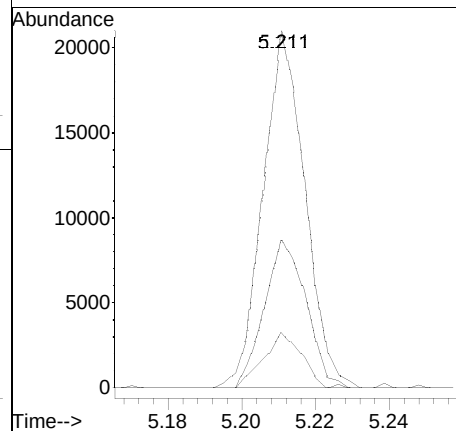
Tgt Ion: 77 Resp: 16434

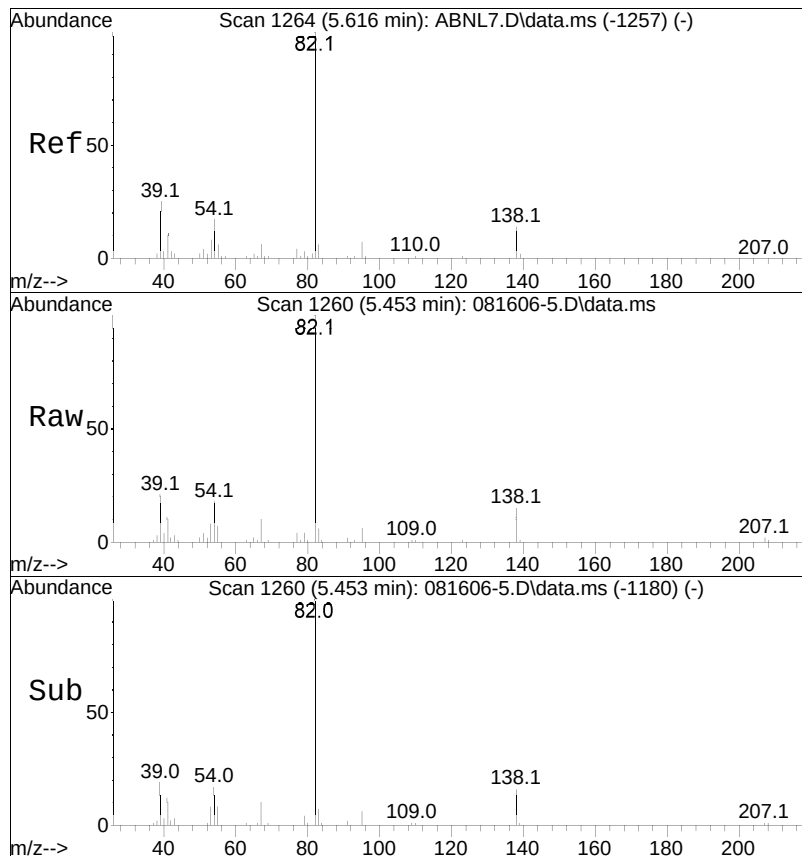
Ion Ratio Lower Upper

77 100

123 41.3 36.3 54.5

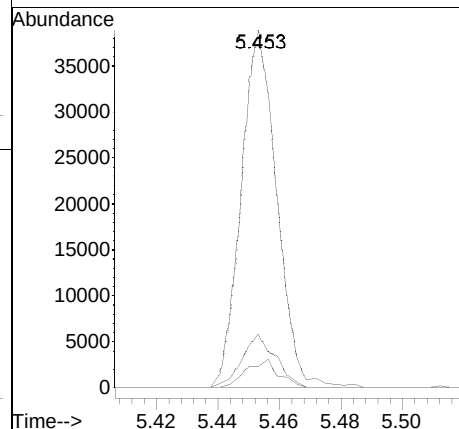
65 14.4 11.6 17.4

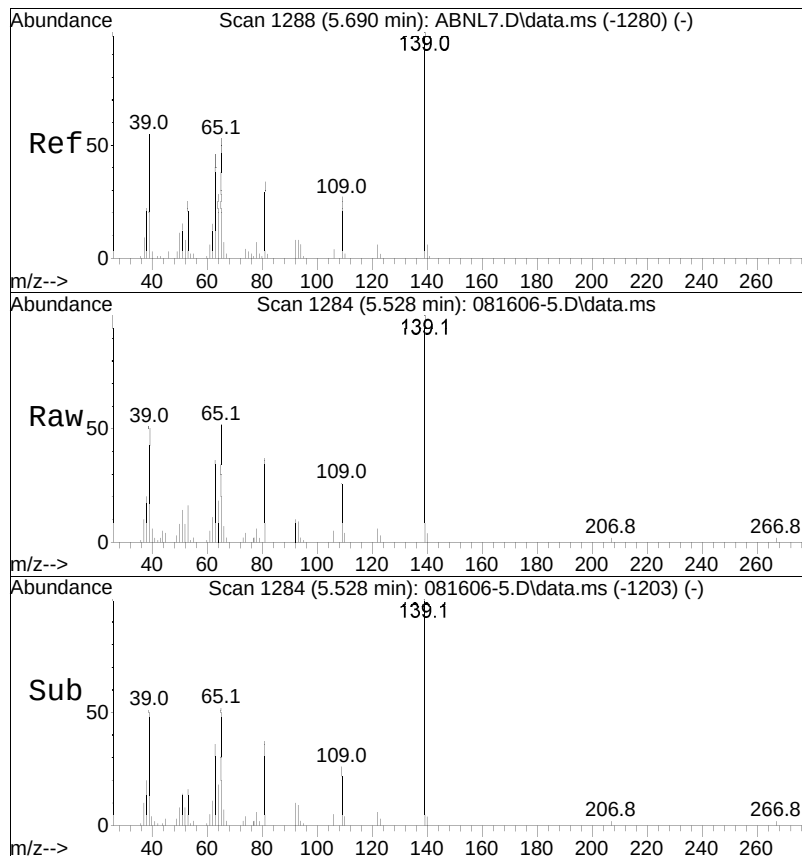




#21
 Isophorone
 Concen: 1.30 ug/ml
 RT: 5.453 min Scan# 1260
 Delta R.T. 0.000 min
 Lab File: 081606-5.D
 Acq: 21 Jun 2025 2:03 pm

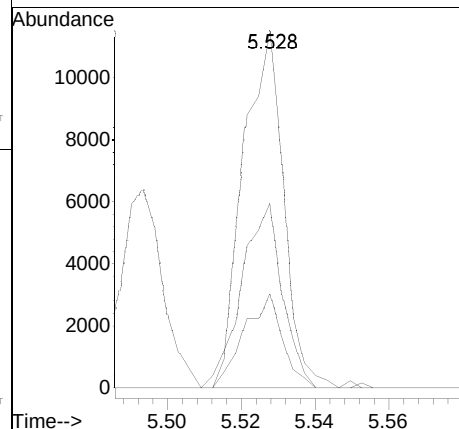
Tgt Ion:	82	Resp:	30937
Ion Ratio	Lower	Upper	
82	100		
138	14.1	14.7	22.1#
95	7.1	5.2	7.8

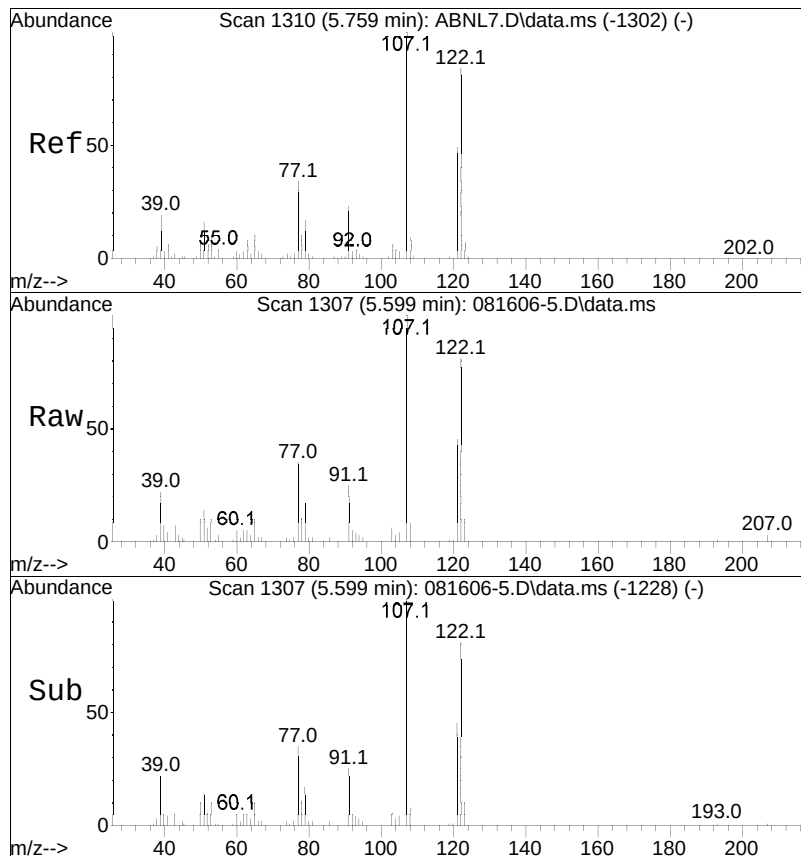




#22
 2-Nitrophenol
 Concen: 1.54 ug/ml
 RT: 5.528 min Scan# 1284
 Delta R.T. 0.003 min
 Lab File: 081606-5.D
 Acq: 21 Jun 2025 2:03 pm

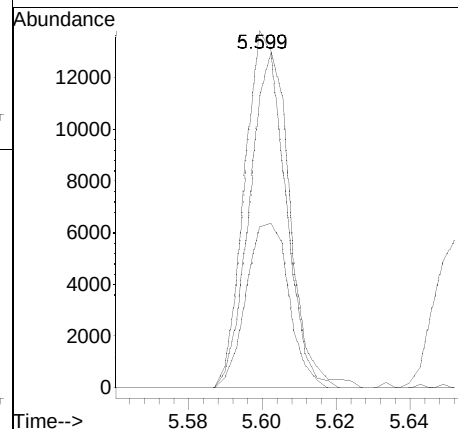
Tgt Ion:	139	Resp:	8793
Ion Ratio	Lower	Upper	
139	100		
109	24.8	19.4	29.0
65	51.8	46.1	69.1

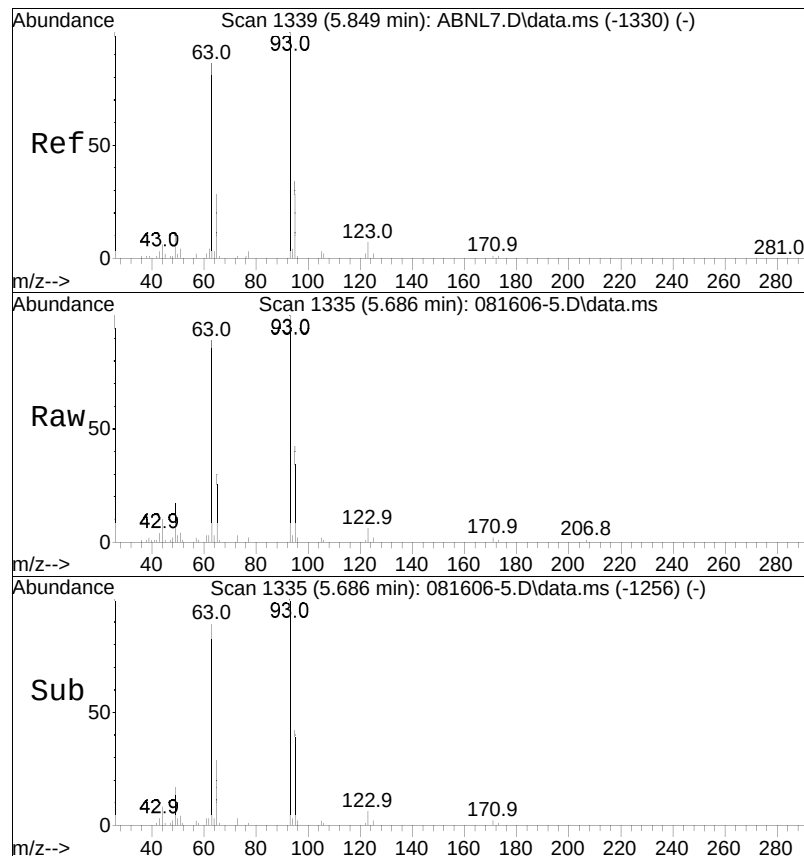




#23
 2,4-Dimethylphenol
 Concen: 1.00 ug/ml
 RT: 5.599 min Scan# 1307
 Delta R.T. -0.003 min
 Lab File: 081606-5.D
 Acq: 21 Jun 2025 2:03 pm

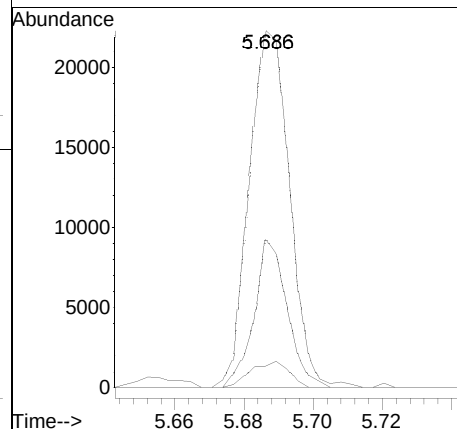
Tgt Ion:	107	Resp:	11312
Ion Ratio	Lower	Upper	
107	100		
121	45.4	40.0	60.0
122	80.2	70.2	105.4

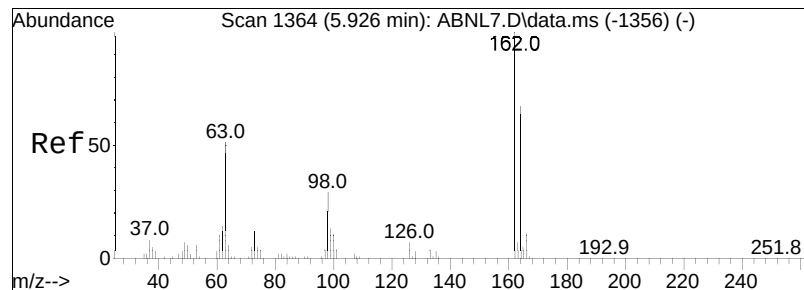




#24
 Bis(2-chloroethoxy)methane
 Concen: 1.28 ug/ml
 RT: 5.686 min Scan# 1335
 Delta R.T. -0.003 min
 Lab File: 081606-5.D
 Acq: 21 Jun 2025 2:03 pm

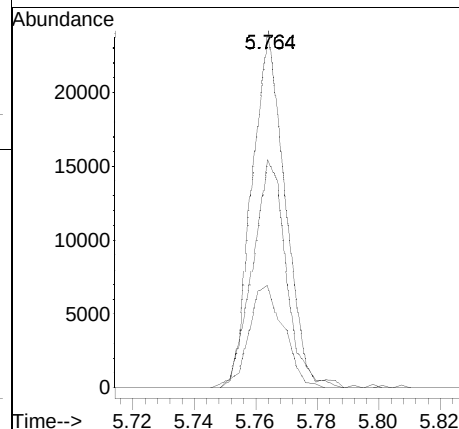
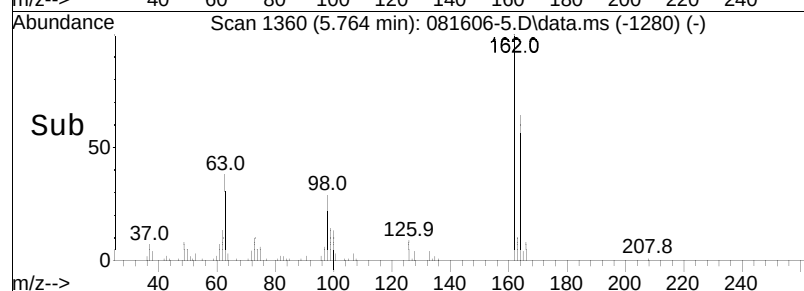
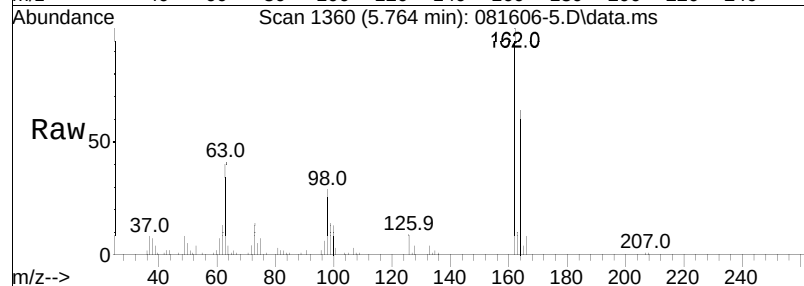
Tgt Ion:	93	Resp:	17931
Ion Ratio	Lower	Upper	
93	100		
95	34.3	25.8	38.8
123	7.1	10.1	15.1#

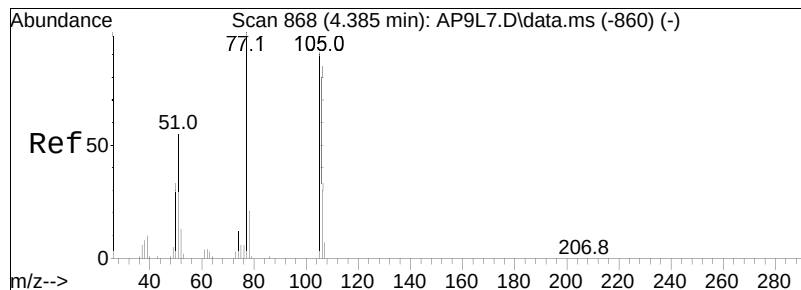




#25
 2,4-Dichlorophenol
 Concen: 1.52 ug/ml
 RT: 5.764 min Scan# 1360
 Delta R.T. 0.000 min
 Lab File: 081606-5.D
 Acq: 21 Jun 2025 2:03 pm

Tgt Ion	Ratio	Lower	Upper
162	100		
164	65.3	51.0	76.4
98	30.4	32.2	48.2#





#28

Benzaldehyde

Concen: 1.44 ug/ml

RT: 4.222 min Scan# 864

Delta R.T. 0.003 min

Lab File: 081606-5.D

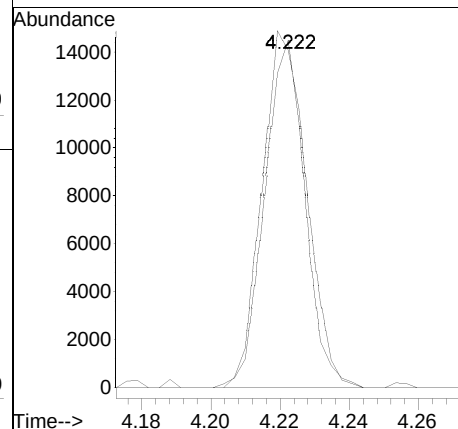
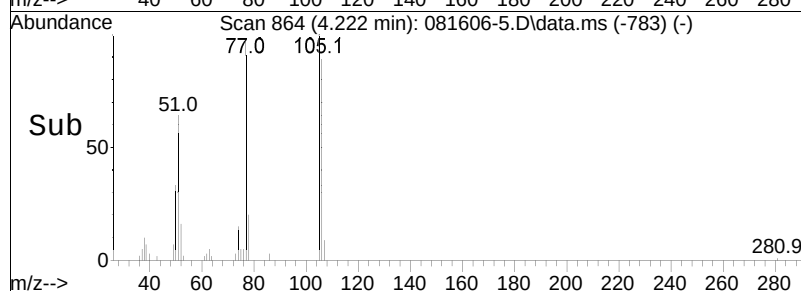
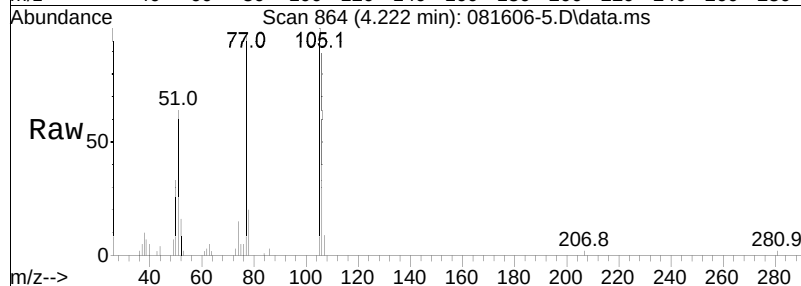
Acq: 21 Jun 2025 2:03 pm

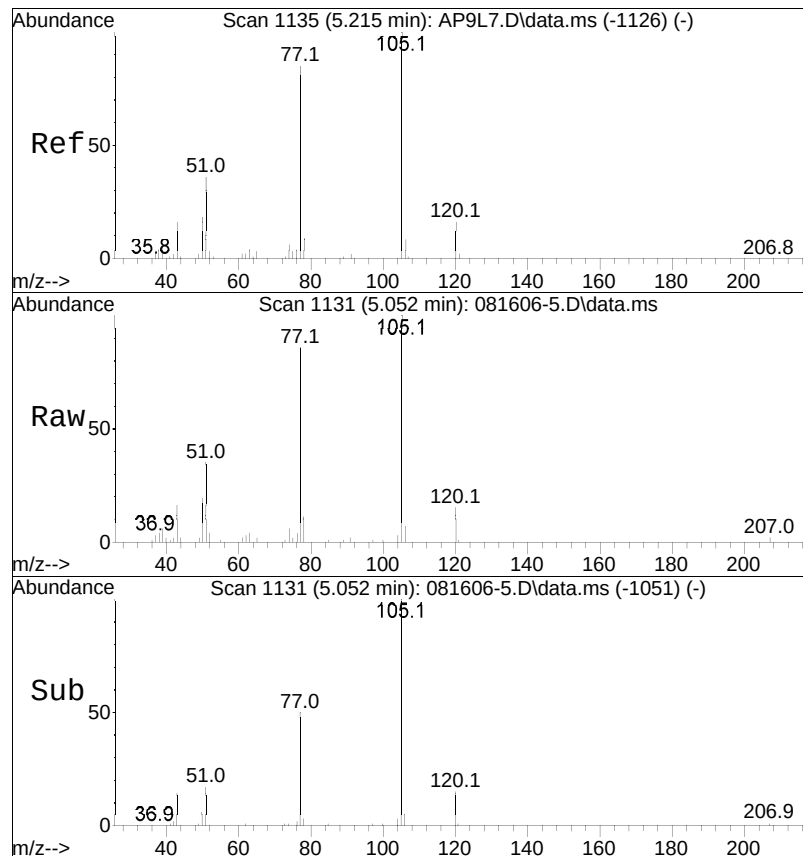
Tgt Ion:105 Resp: 11752

Ion Ratio Lower Upper

105 100

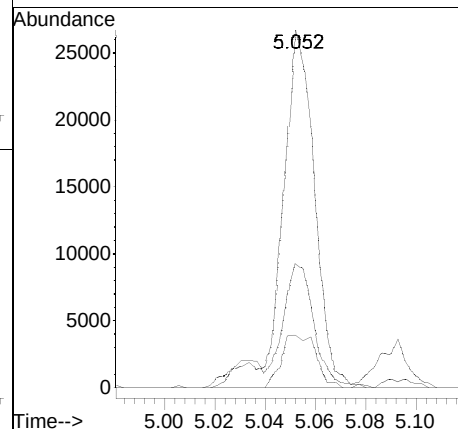
77 112.5 82.2 123.4

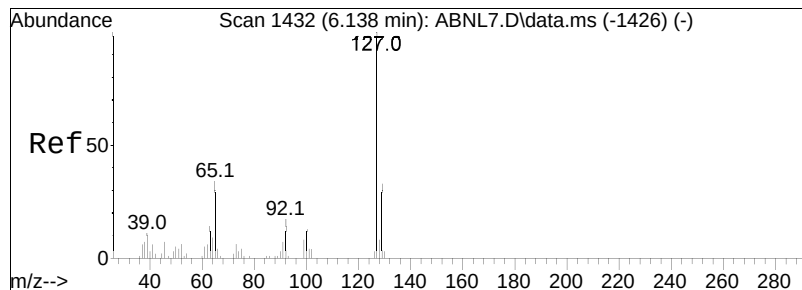




#29
 Acetophenone
 Concen: 1.65 ug/ml
 RT: 5.052 min Scan# 1131
 Delta R.T. 0.000 min
 Lab File: 081606-5.D
 Acq: 21 Jun 2025 2:03 pm

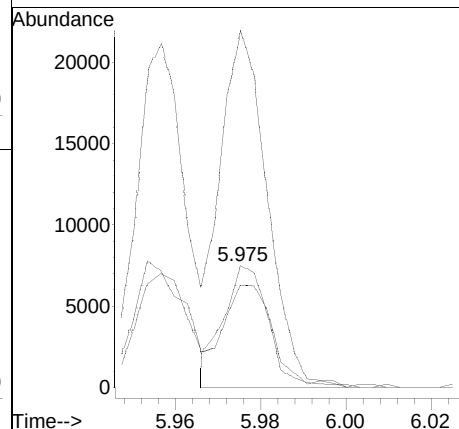
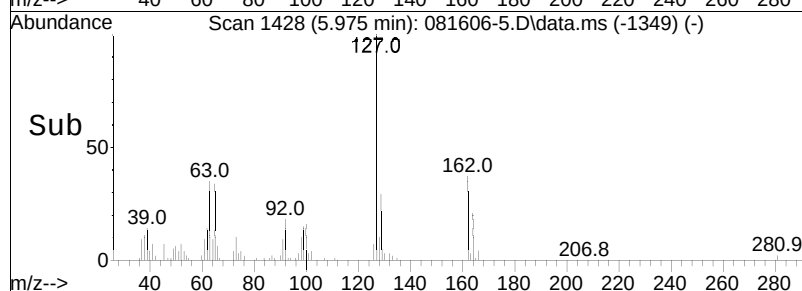
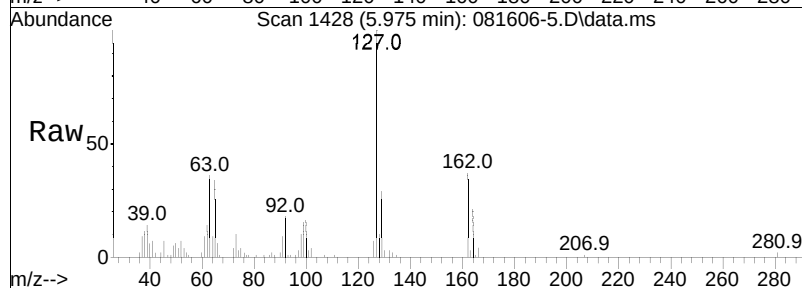
Tgt Ion:	105	Resp:	23738
Ion Ratio	Lower	Upper	
105	100		
120	15.8	20.5	30.7#
51	33.0	34.9	52.3#

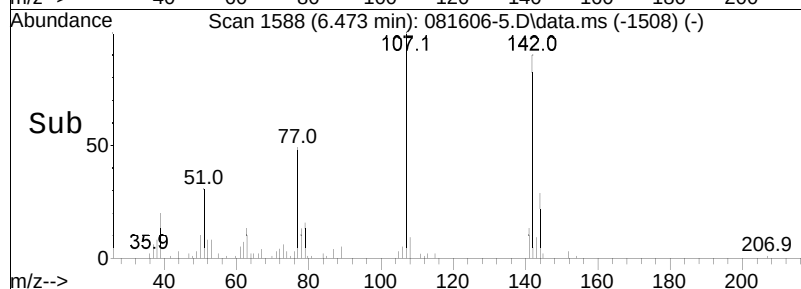
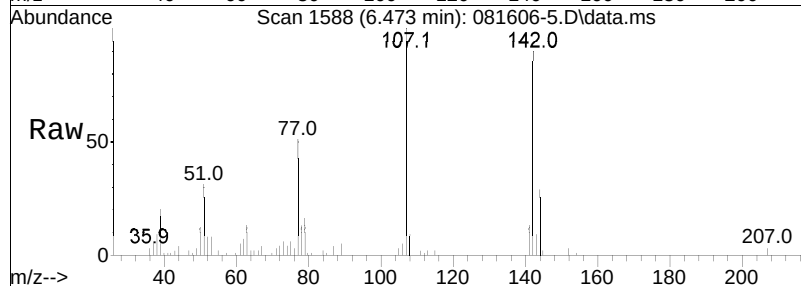
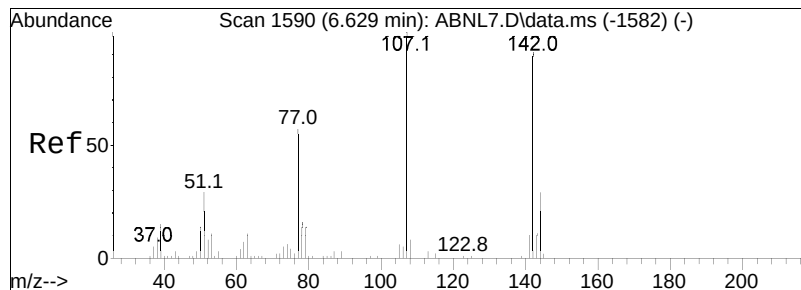




#40
 4-Chloroaniline
 Concen: 1.20 ug/ml
 RT: 5.975 min Scan# 1428
 Delta R.T. -0.003 min
 Lab File: 081606-5.D
 Acq: 21 Jun 2025 2:03 pm

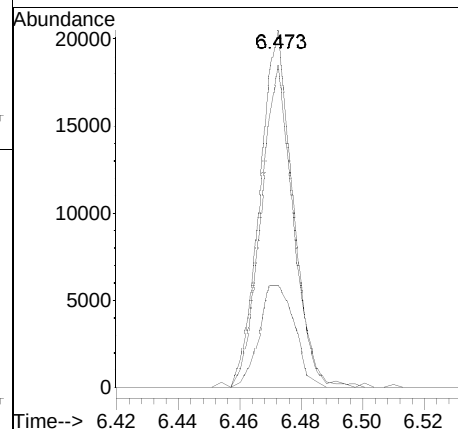
Tgt Ion	Ratio	Lower	Upper
65	100		
127	305.4	237.6	356.4
129	93.5	76.3	114.5

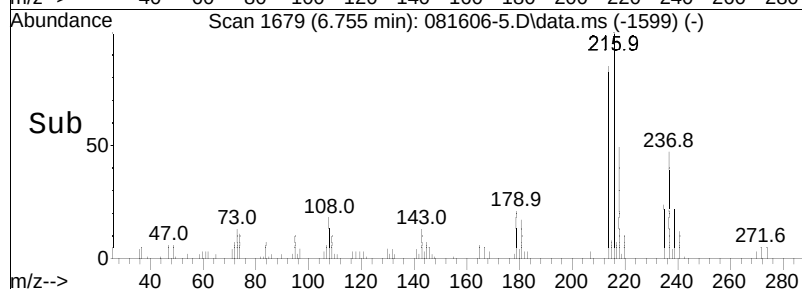
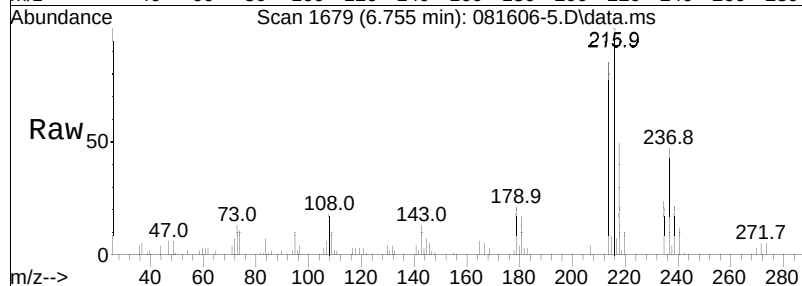
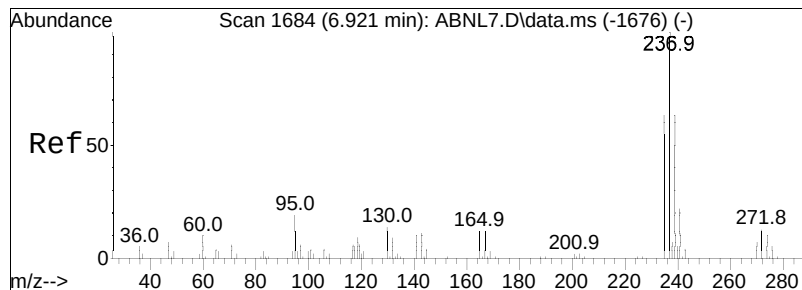




#42
 p-Chloro-m-cresol
 Concen: 1.62 ug/ml
 RT: 6.473 min Scan# 1588
 Delta R.T. 0.000 min
 Lab File: 081606-5.D
 Acq: 21 Jun 2025 2:03 pm

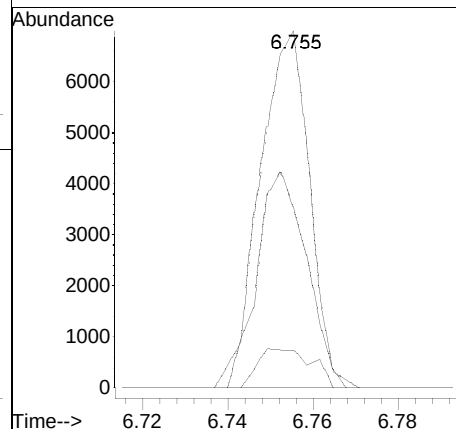
Tgt Ion:	107	Resp:	15147
Ion Ratio	Lower	Upper	
107	100		
144	30.8	20.9	31.3
142	88.3	66.1	99.1

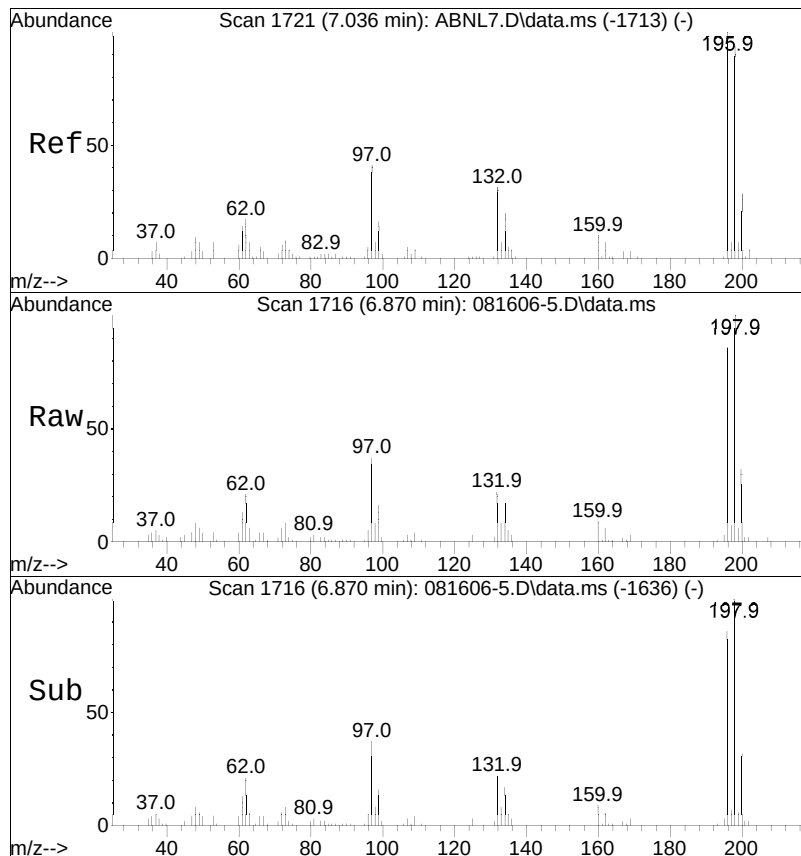




#45
 Hexachlorocyclopentadiene
 Concen: 0.50 ug/ml
 RT: 6.755 min Scan# 1679
 Delta R.T. 0.000 min
 Lab File: 081606-5.D
 Acq: 21 Jun 2025 2:03 pm

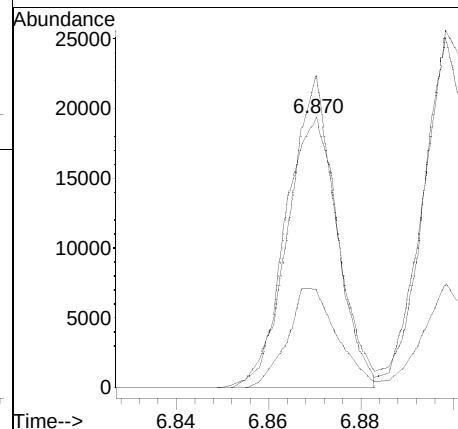
Tgt Ion	Ratio	Lower	Upper
237	100		
235	60.4	49.7	74.5
272	12.1	9.8	14.6

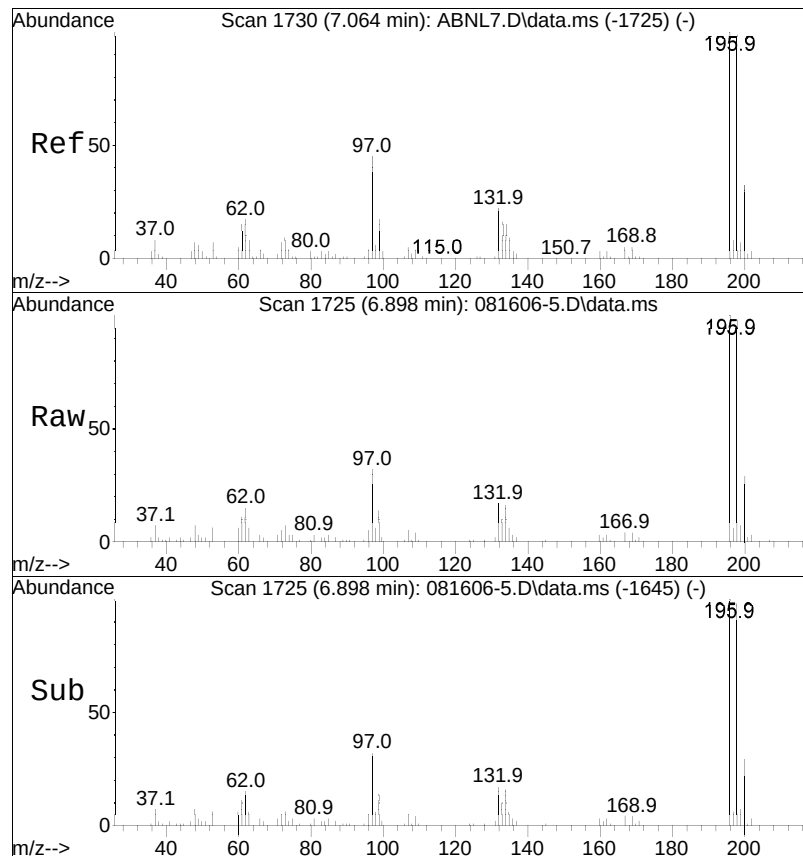




#46
 2,4,6-Trichlorophenol
 Concen: 1.60 ug/ml
 RT: 6.870 min Scan# 1716
 Delta R.T. 0.000 min
 Lab File: 081606-5.D
 Acq: 21 Jun 2025 2:03 pm

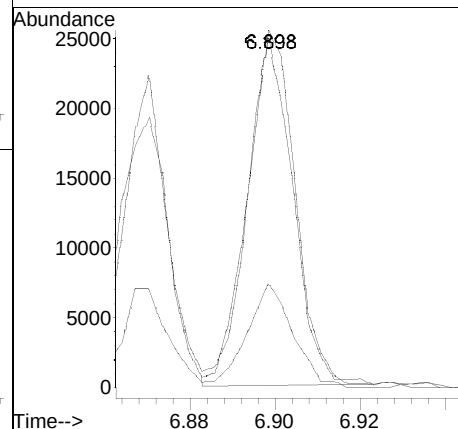
Tgt Ion	Ratio	Lower	Upper
196	100		
198	102.7	77.5	116.3
200	34.7	23.8	35.6

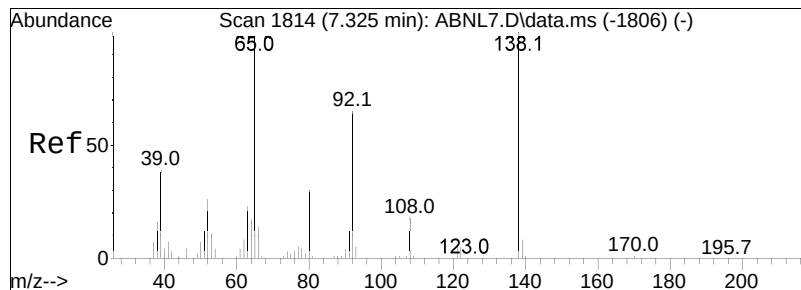




#47
 2,4,5-Trichlorophenol
 Concen: 1.83 ug/ml
 RT: 6.898 min Scan# 1725
 Delta R.T. 0.000 min
 Lab File: 081606-5.D
 Acq: 21 Jun 2025 2:03 pm

Tgt Ion	Ratio	Lower	Upper
196	100		
200	28.6	25.4	38.0
198	97.5	78.0	117.0





#50

2-Nitroaniline

Concen: 1.67 ug/ml

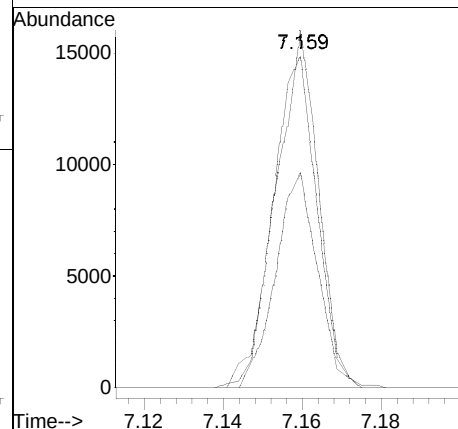
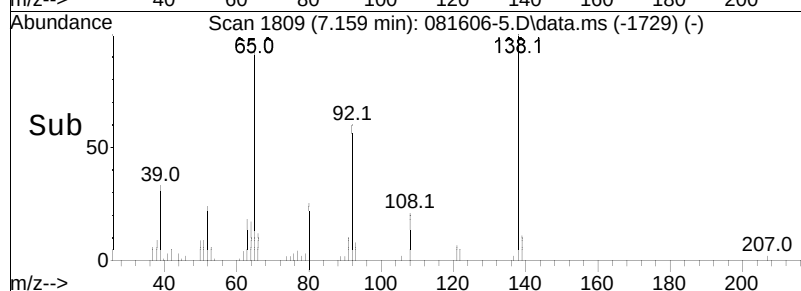
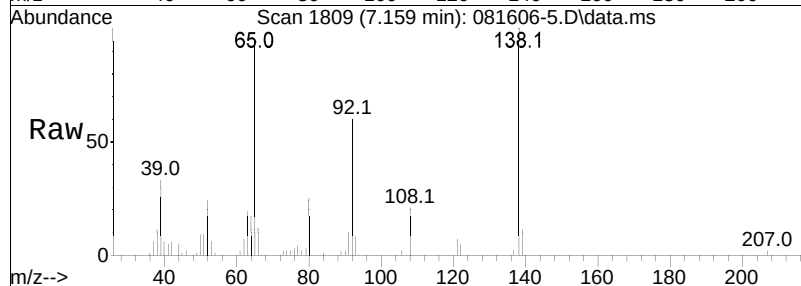
RT: 7.159 min Scan# 1809

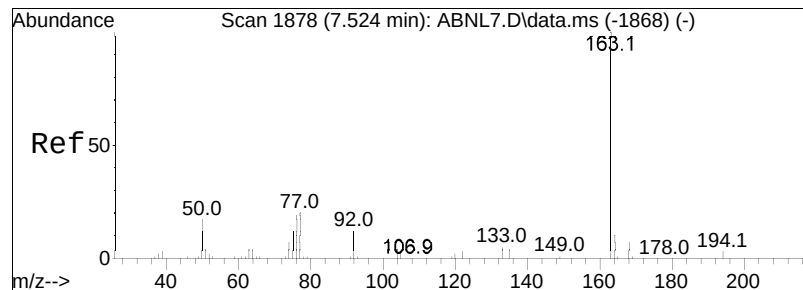
Delta R.T. 0.000 min

Lab File: 081606-5.D

Acq: 21 Jun 2025 2:03 pm

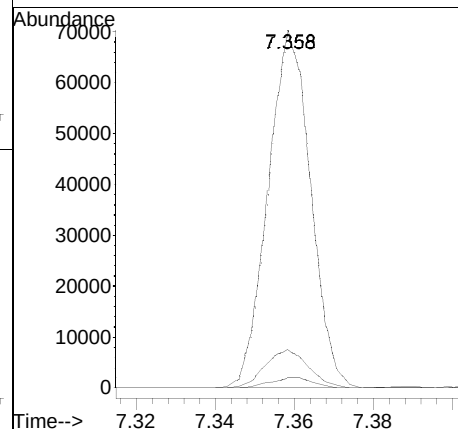
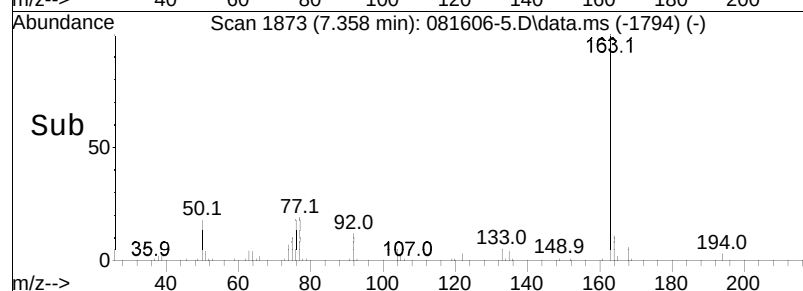
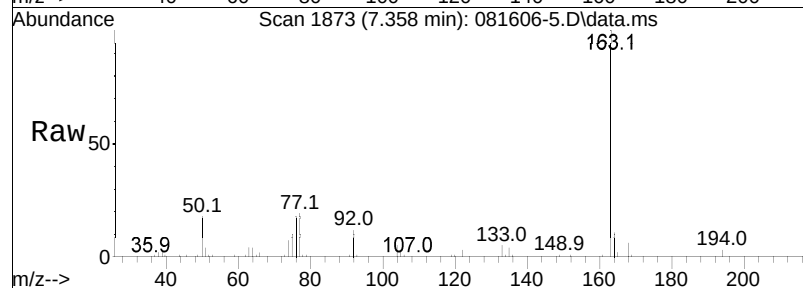
Tgt Ion:	138	Resp:	11756
Ion Ratio	Lower	Upper	
138	100		
92	60.6	53.5	80.3
65	97.6	86.3	129.5

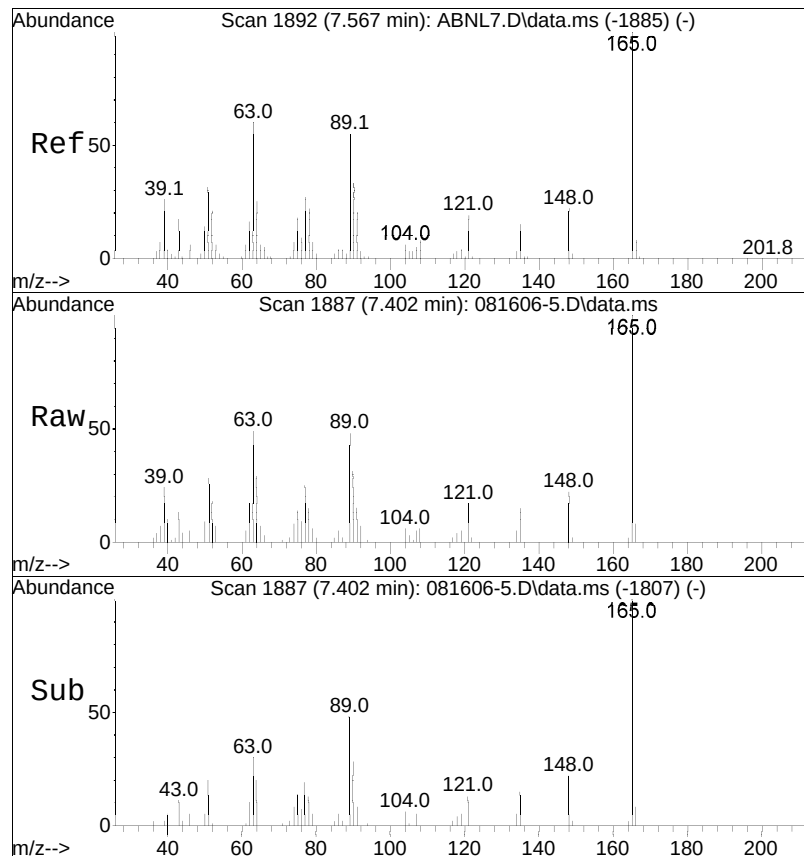




#53
 Dimethyl phthalate
 Concen: 1.57 ug/ml
 RT: 7.358 min Scan# 1873
 Delta R.T. -0.003 min
 Lab File: 081606-5.D
 Acq: 21 Jun 2025 2:03 pm

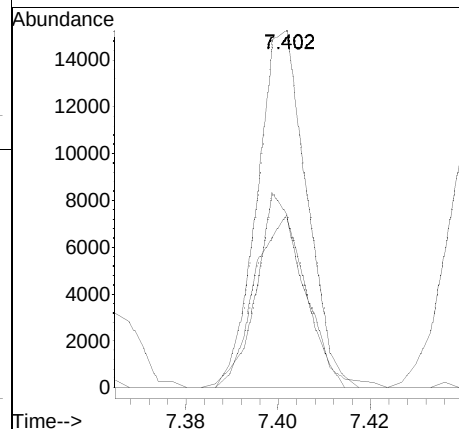
Tgt Ion	Ratio	Lower	Upper
163	100		
194	2.9	3.5	5.3#
164	11.0	7.9	11.9

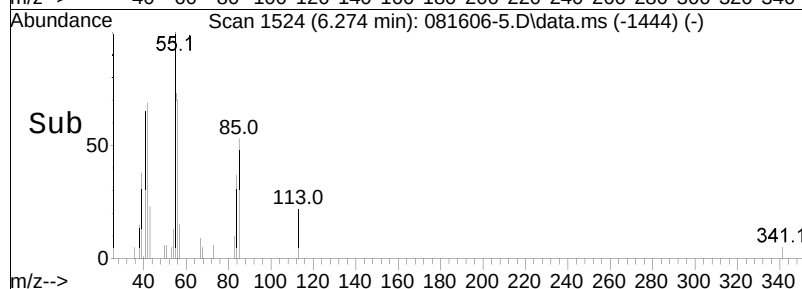
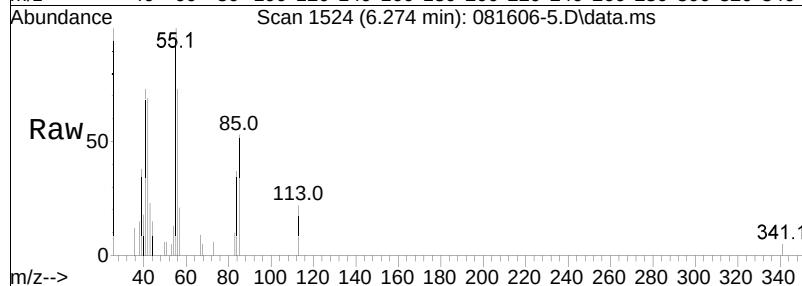
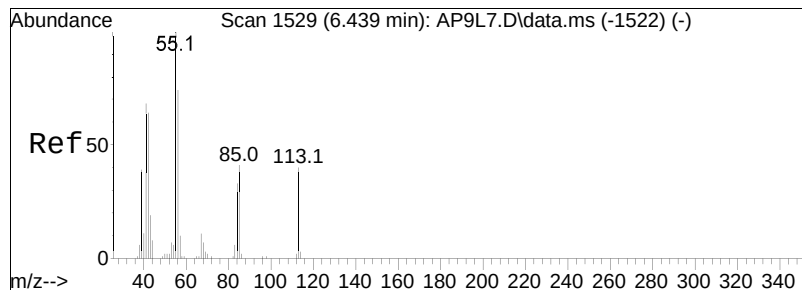




#55
 2,6-Dinitrotoluene
 Concen: 1.70 ug/ml
 RT: 7.402 min Scan# 1887
 Delta R.T. 0.000 min
 Lab File: 081606-5.D
 Acq: 21 Jun 2025 2:03 pm

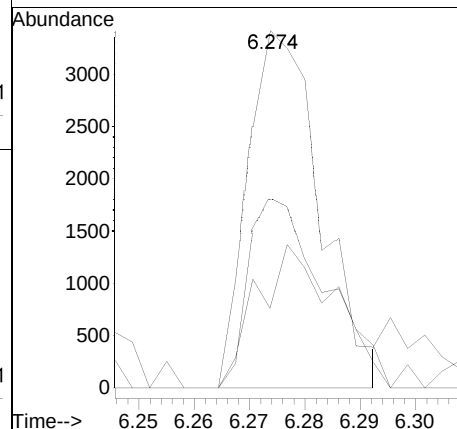
Tgt Ion	Ratio	Lower	Upper
165	100		
89	50.4	54.2	81.2#
63	52.8	64.2	96.2#

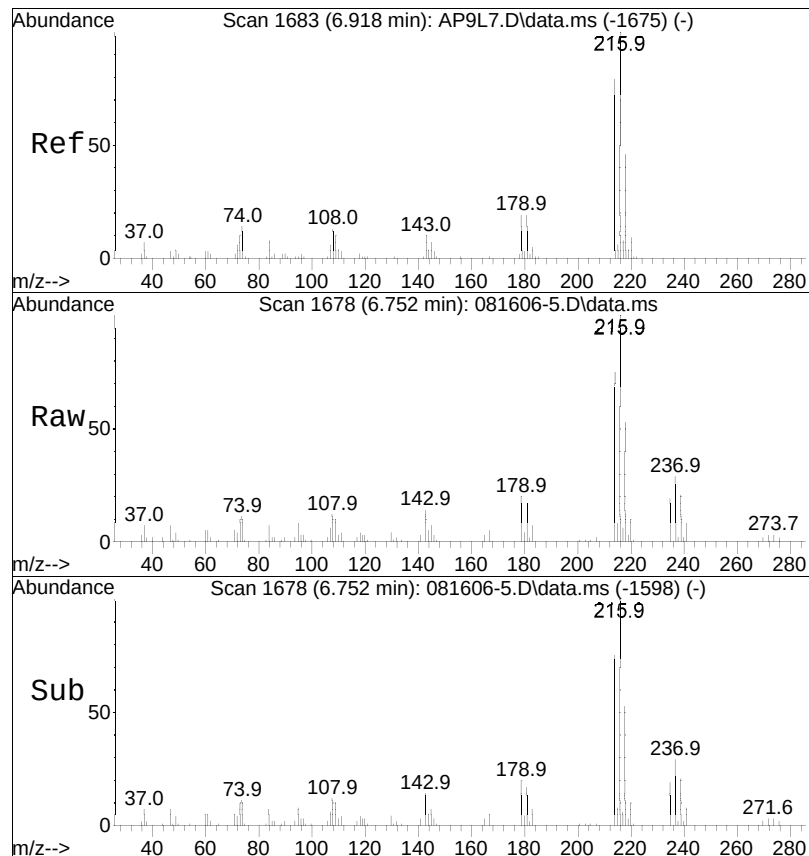




#62
 Caprolactam
 Concen: 0.56 ug/ml
 RT: 6.274 min Scan# 1524
 Delta R.T. 0.000 min
 Lab File: 081606-5.D
 Acq: 21 Jun 2025 2:03 pm

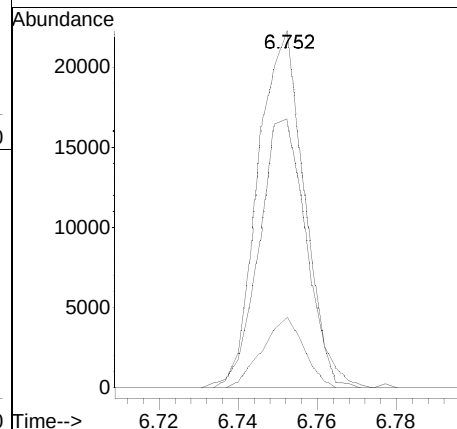
Tgt Ion	Ratio	Lower	Upper
55	100		
85	56.1	19.8	29.6#
113	44.4	29.6	44.4#

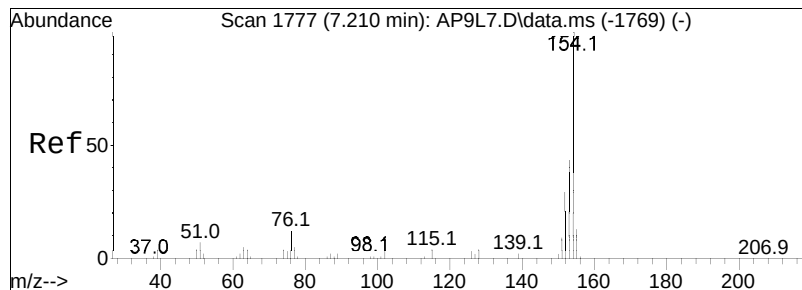




#63
 1,2,4,5-Tetrachlorobenzene
 Concen: 1.25 ug/ml
 RT: 6.752 min Scan# 1678
 Delta R.T. 0.000 min
 Lab File: 081606-5.D
 Acq: 21 Jun 2025 2:03 pm

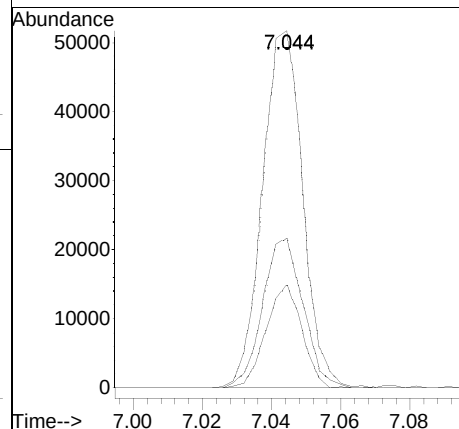
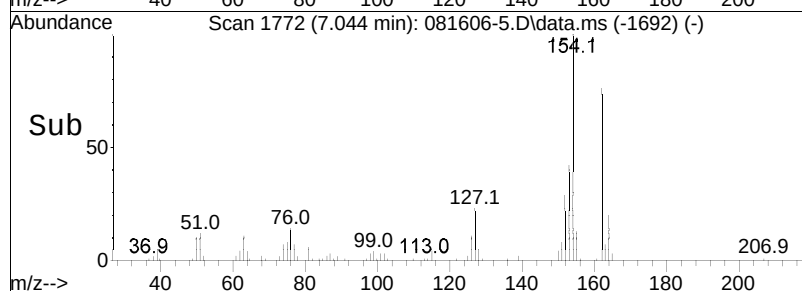
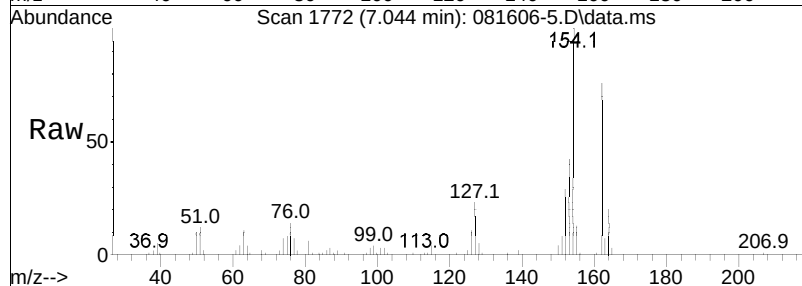
Tgt Ion:	216	Resp:	18126
Ion Ratio	Lower	Upper	
216	100		
214	75.8	63.7	95.5
179	17.7	19.0	28.6#

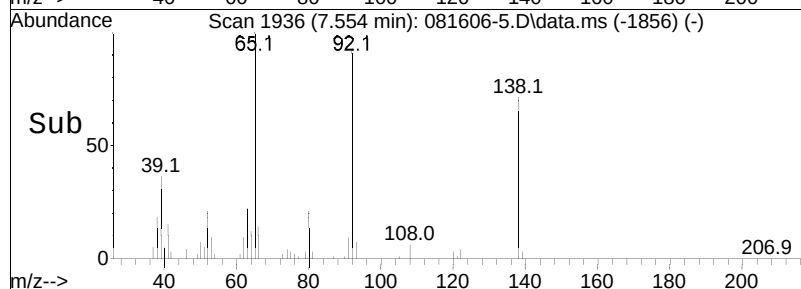
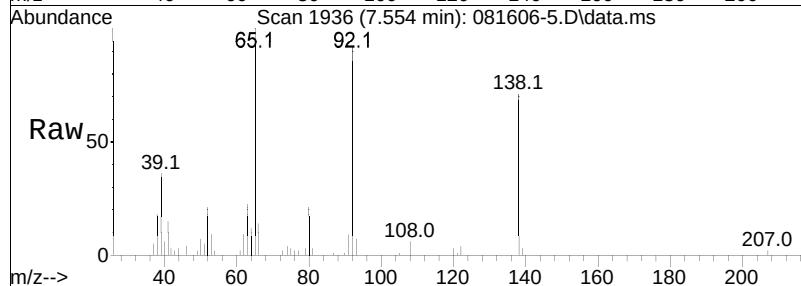
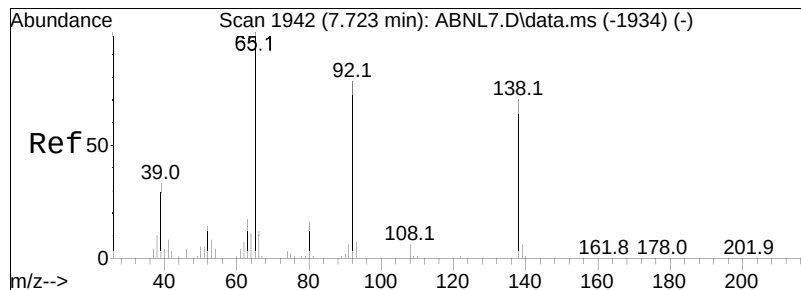




#64
Biphenyl
Concen: 1.33 ug/ml
RT: 7.044 min Scan# 1772
Delta R.T. 0.000 min
Lab File: 081606-5.D
Acq: 21 Jun 2025 2:03 pm

Tgt Ion	154	Resp	41415
Ion Ratio	Lower	Upper	
154	100		
153	42.2	32.3	48.5
152	25.9	22.5	33.7





#66

3-Nitroaniline

Concen: 1.41 ug/ml

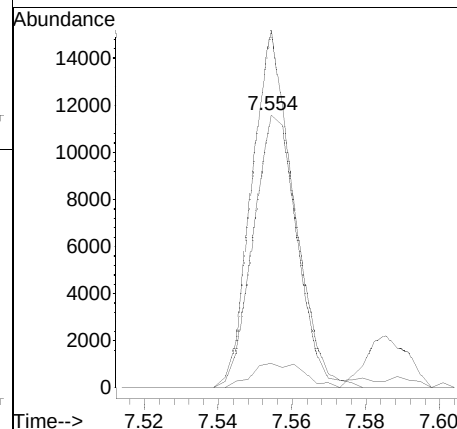
RT: 7.554 min Scan# 1936

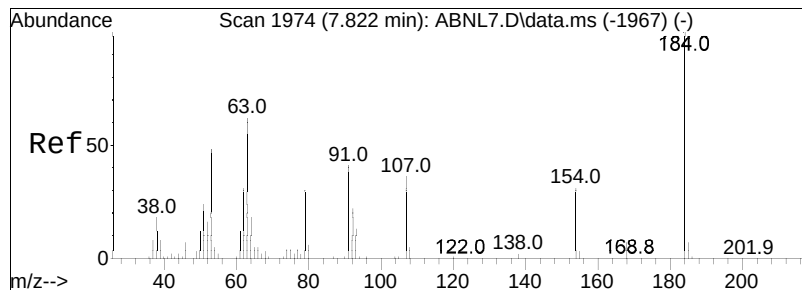
Delta R.T. 0.000 min

Lab File: 081606-5.D

Acq: 21 Jun 2025 2:03 pm

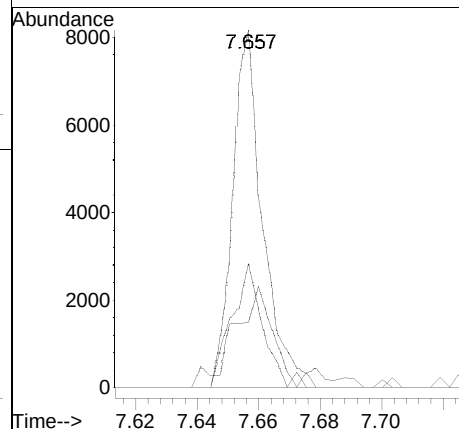
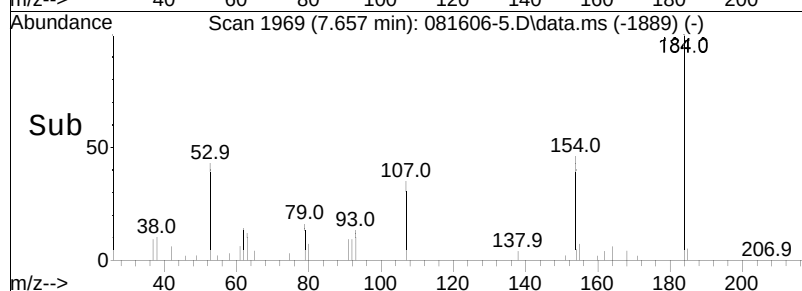
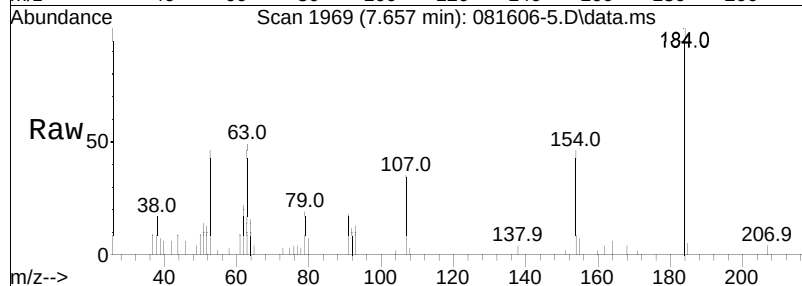
Tgt Ion:	138	Resp:	9517
Ion Ratio	Lower	Upper	
138	100		
92	125.2	93.4	140.2
108	10.5	9.5	14.3

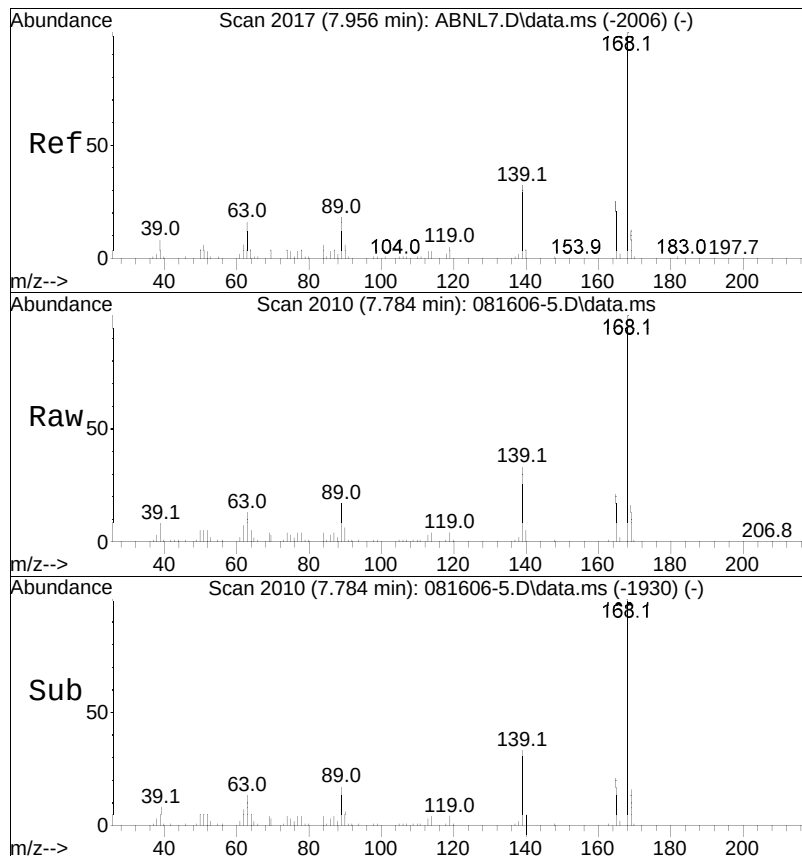




#68
 2,4-Dinitrophenol
 Concen: 1.39 ug/ml
 RT: 7.657 min Scan# 1969
 Delta R.T. 0.000 min
 Lab File: 081606-5.D
 Acq: 21 Jun 2025 2:03 pm

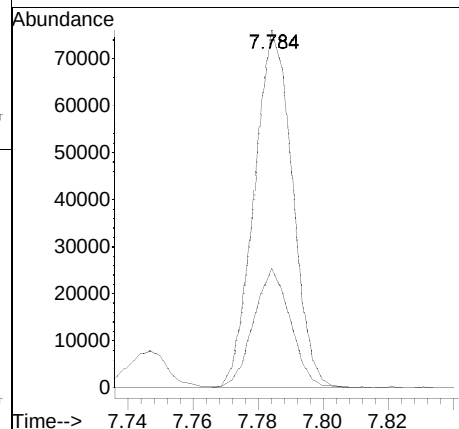
Tgt Ion	Ratio	Lower	Upper
184	100		
107	35.2	37.7	56.5#
91	36.5	46.3	69.5#

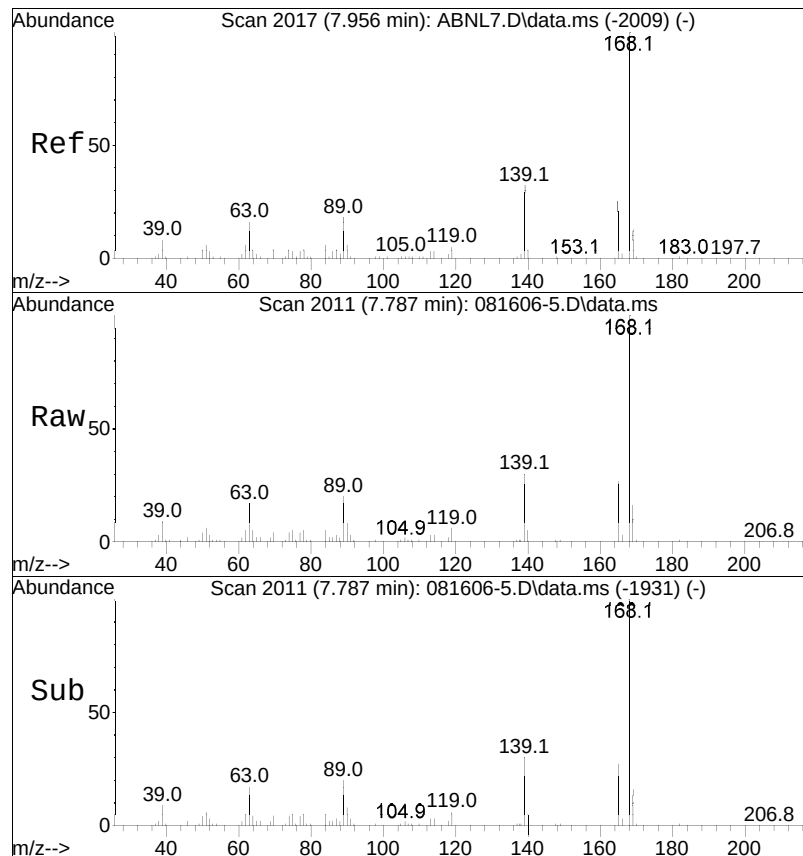




#69
 Dibenzofuran
 Concen: 1.32 ug/ml
 RT: 7.784 min Scan# 2010
 Delta R.T. 0.000 min
 Lab File: 081606-5.D
 Acq: 21 Jun 2025 2:03 pm

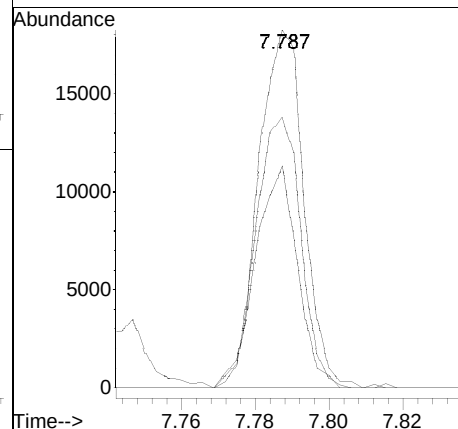
Tgt Ion:	168	Resp:	61443
Ion Ratio	Lower	Upper	
168	100		
139	32.6	31.4	47.2

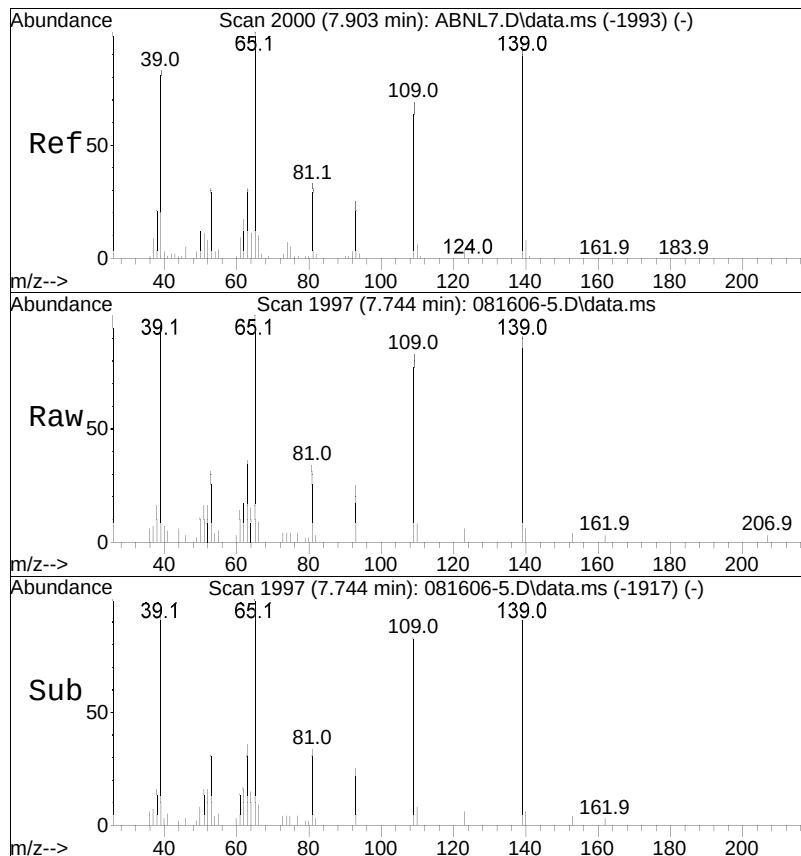




#70
 2,4-Dinitrotoluene
 Concen: 1.55 ug/ml
 RT: 7.787 min Scan# 2011
 Delta R.T. 0.000 min
 Lab File: 081606-5.D
 Acq: 21 Jun 2025 2:03 pm

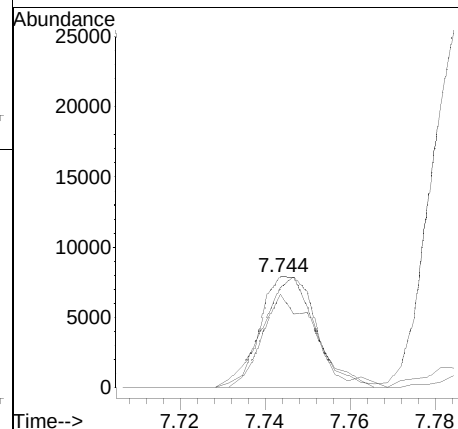
Tgt Ion:	165	Resp:	15407
Ion Ratio	Lower	Upper	
165	100		
89	75.5	72.0	108.0
63	58.2	52.7	79.1

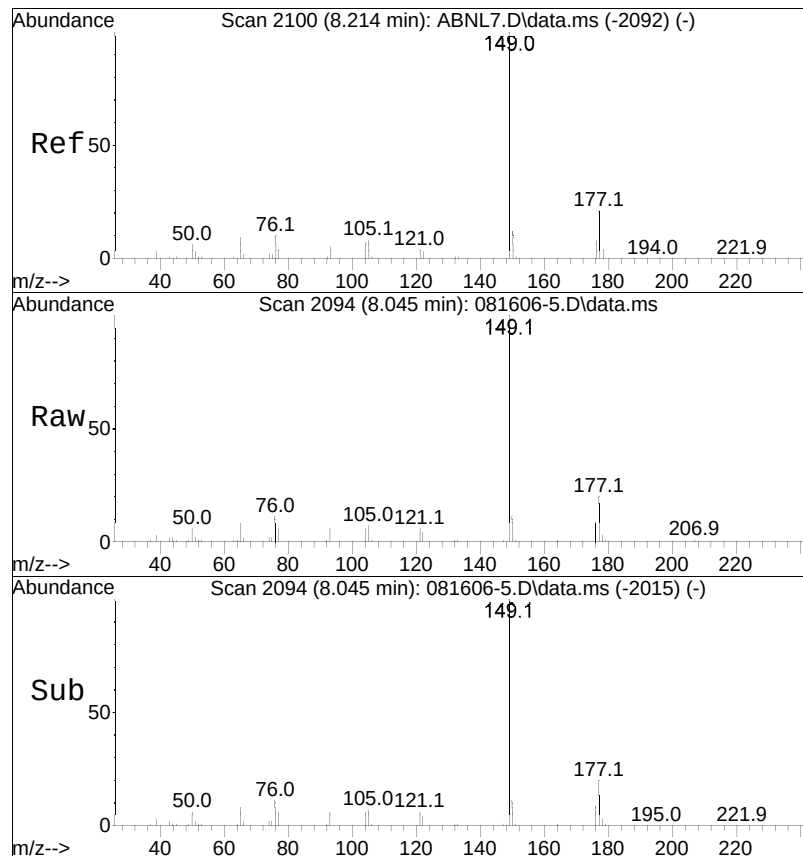




#71
 4-Nitrophenol
 Concen: 1.19 ug/ml
 RT: 7.744 min Scan# 1997
 Delta R.T. 0.000 min
 Lab File: 081606-5.D
 Acq: 21 Jun 2025 2:03 pm

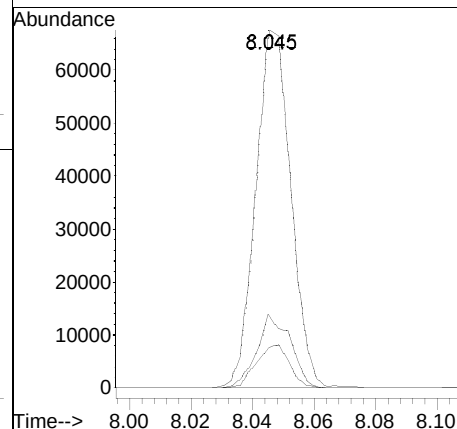
Tgt Ion:	65	Resp:	7279
Ion Ratio	Lower	Upper	
65	100		
109	78.0	47.4	71.2#
139	94.6	76.6	115.0

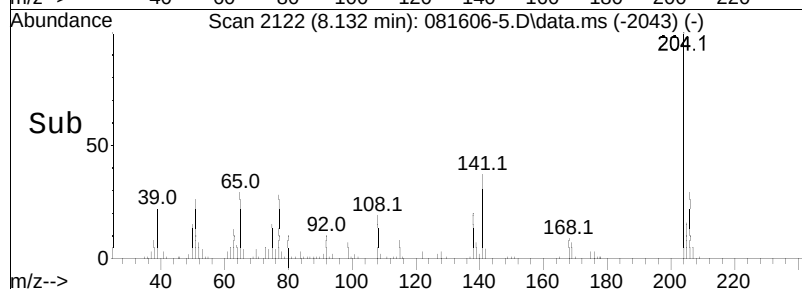
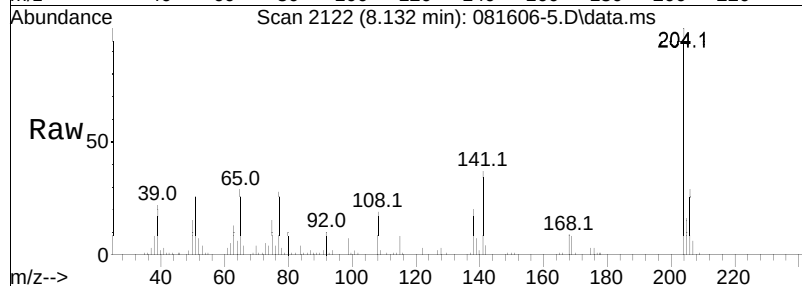
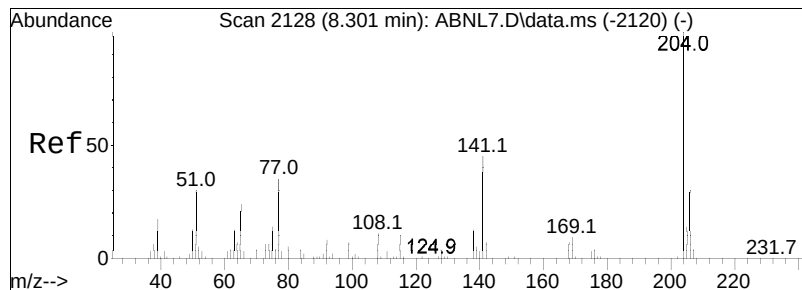




#74
 Diethyl phthalate
 Concen: 1.52 ug/ml
 RT: 8.045 min Scan# 2094
 Delta R.T. -0.003 min
 Lab File: 081606-5.D
 Acq: 21 Jun 2025 2:03 pm

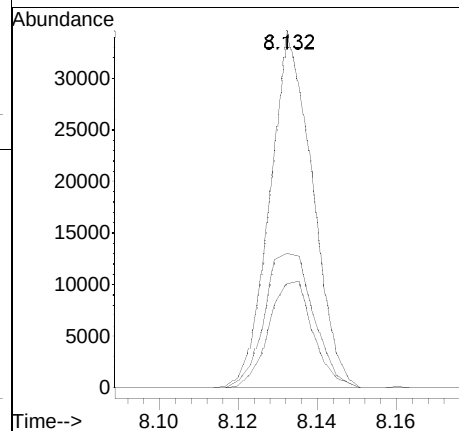
Tgt Ion	Ratio	Lower	Upper
149	100		
177	19.8	16.1	24.1
150	11.5	9.4	14.2

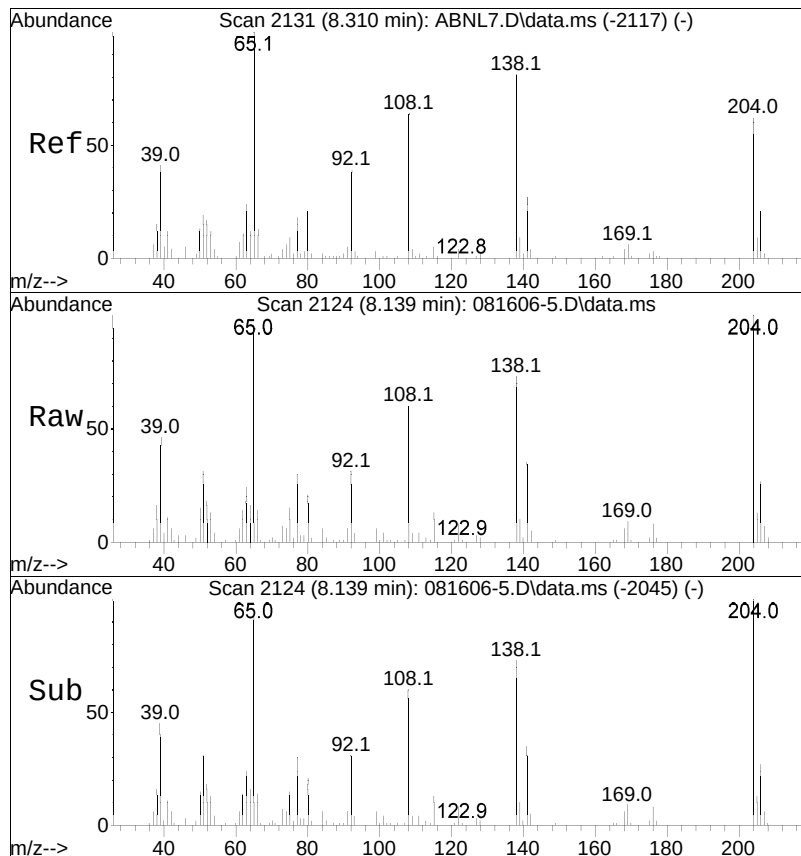




#76
 4-Chlorophenyl phenyl ether
 Concen: 1.37 ug/ml
 RT: 8.132 min Scan# 2122
 Delta R.T. -0.003 min
 Lab File: 081606-5.D
 Acq: 21 Jun 2025 2:03 pm

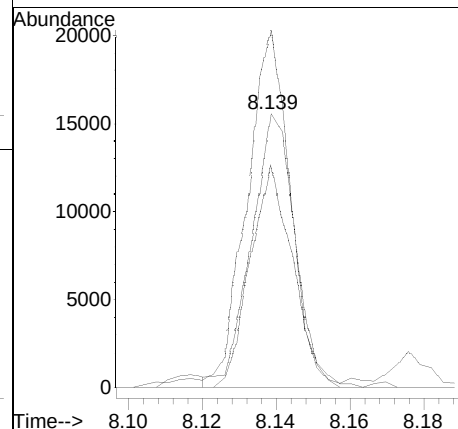
Tgt Ion	Ratio	Lower	Upper
204	100		
206	31.3	25.8	38.6
141	43.5	53.6	80.4#

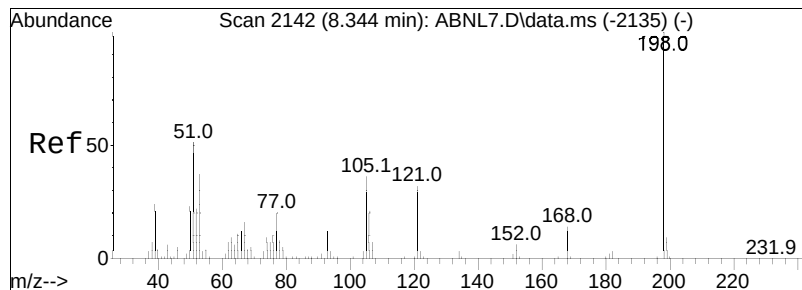




#77
 4-Nitroaniline
 Concen: 1.78 ug/ml
 RT: 8.139 min Scan# 2124
 Delta R.T. -0.003 min
 Lab File: 081606-5.D
 Acq: 21 Jun 2025 2:03 pm

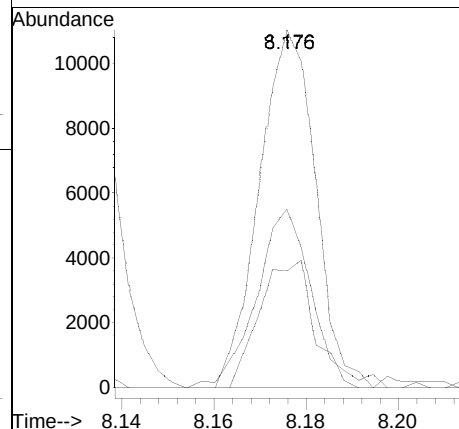
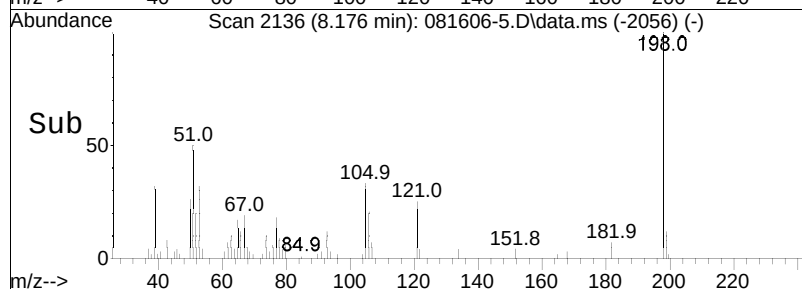
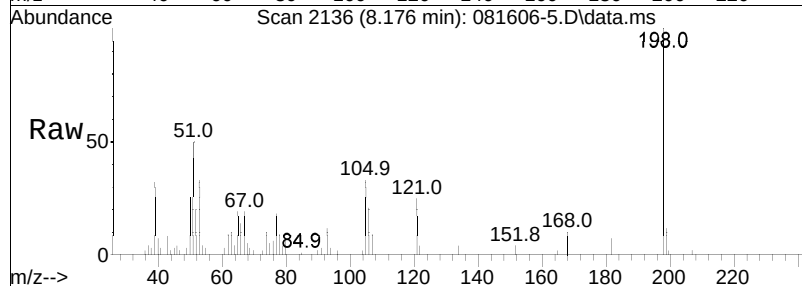
Tgt Ion	Ratio	Lower	Upper
138	100		
108	79.2	52.1	78.1#
65	133.8	115.0	172.6

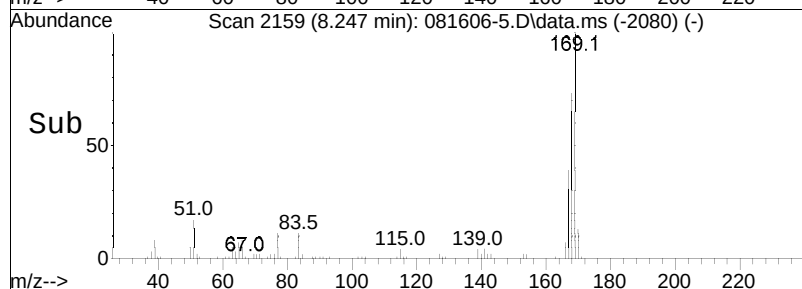
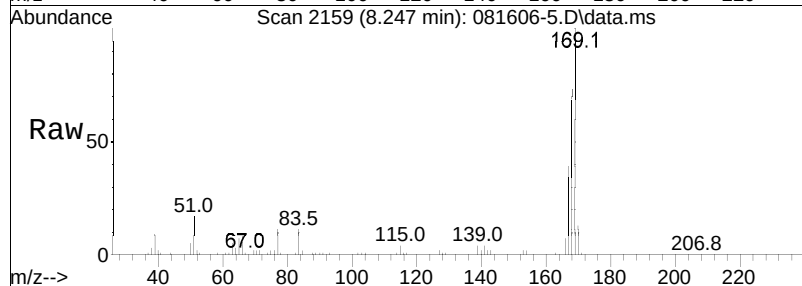
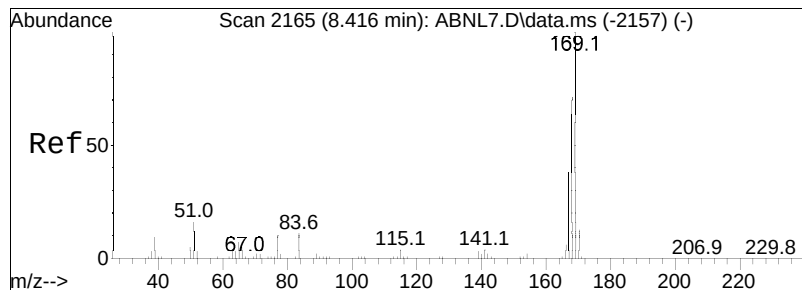




#78
 4,6-Dinitro-o-cresol
 Concen: 1.51 ug/ml
 RT: 8.176 min Scan# 2136
 Delta R.T. 0.000 min
 Lab File: 081606-5.D
 Acq: 21 Jun 2025 2:03 pm

Tgt Ion	Ratio	Lower	Upper
198	100		
51	49.8	76.0	114.0#
105	34.3	45.6	68.4#





#79

NDPA/DPA

Concen: 1.46 ug/ml

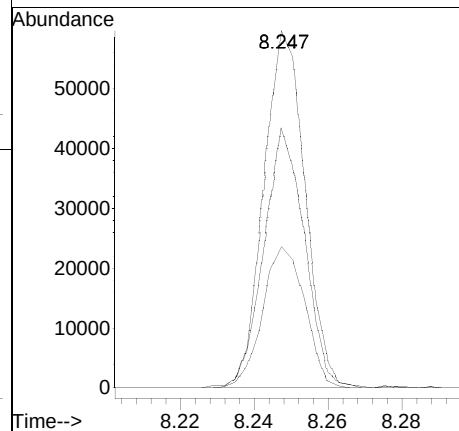
RT: 8.247 min Scan# 2159

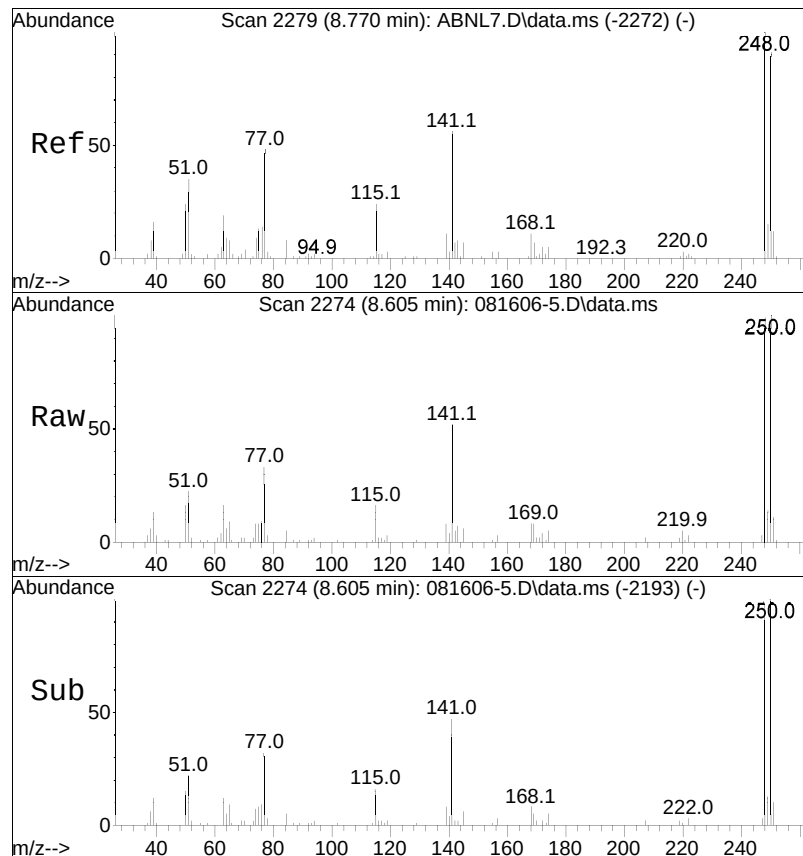
Delta R.T. -0.003 min

Lab File: 081606-5.D

Acq: 21 Jun 2025 2:03 pm

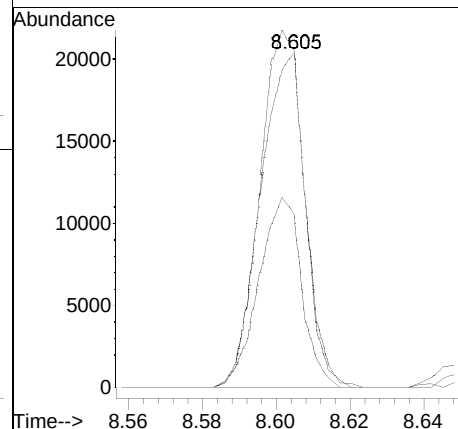
Tgt Ion:	169	Resp:	46182
Ion Ratio	Lower	Upper	
169	100		
168	71.8	54.0	81.0
167	40.8	28.6	42.8

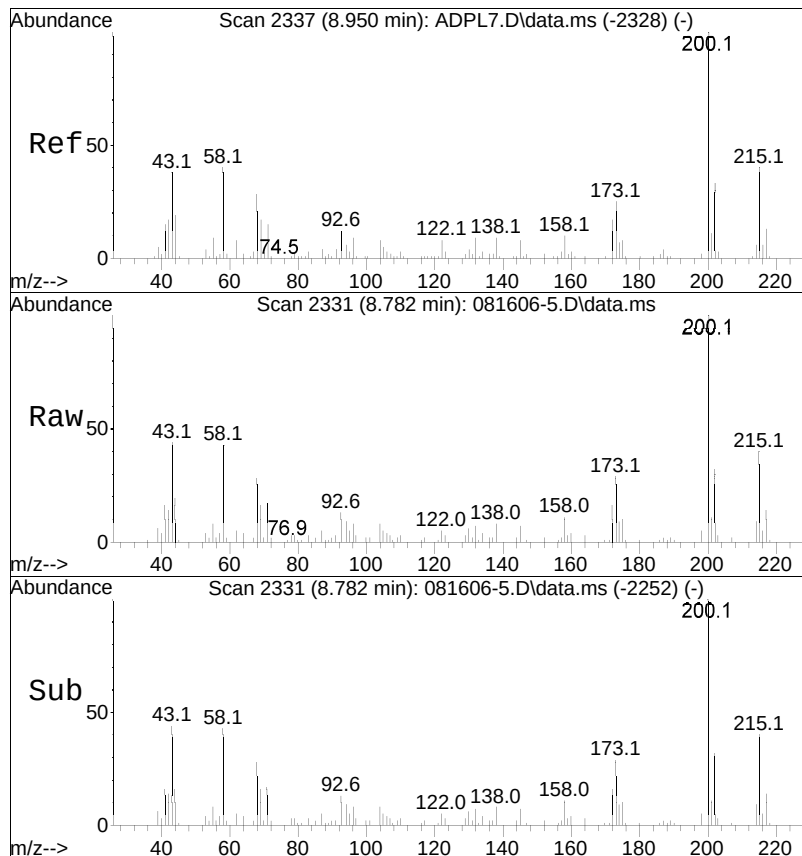




#82
 4-Bromophenyl phenyl ether
 Concen: 1.44 ug/ml
 RT: 8.605 min Scan# 2274
 Delta R.T. 0.003 min
 Lab File: 081606-5.D
 Acq: 21 Jun 2025 2:03 pm

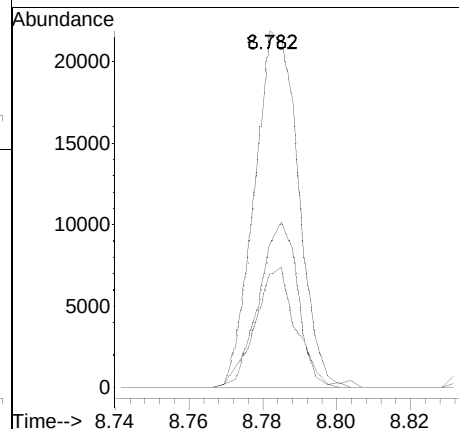
Tgt Ion:	248	Resp:	17106
Ion Ratio	Lower	Upper	
248	100		
141	54.0	76.6	114.8#
250	105.0	77.3	115.9

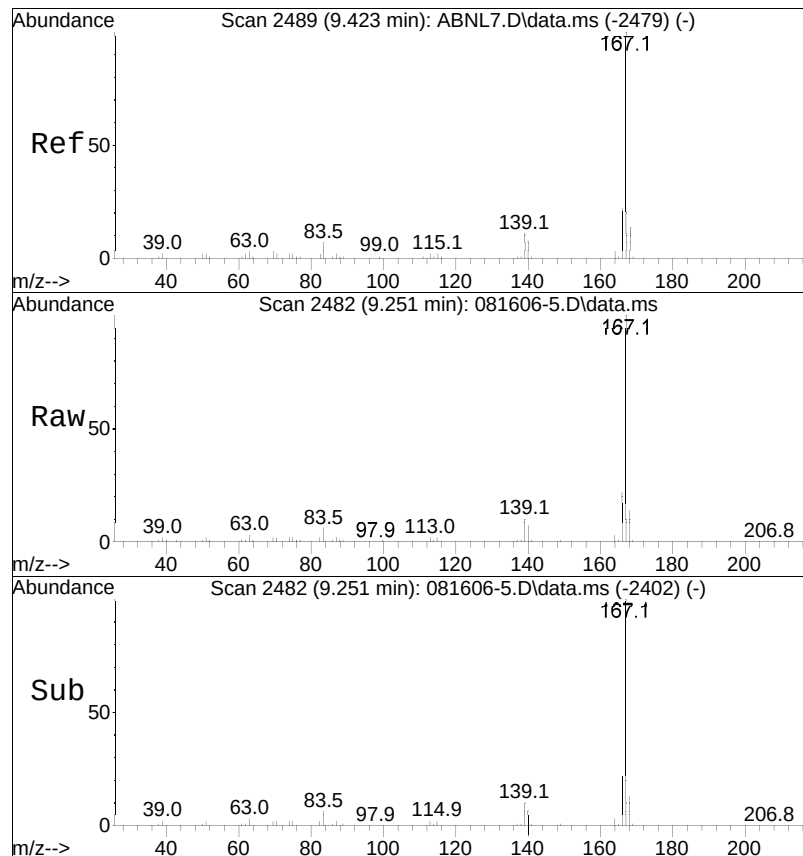




#89
 Atrazine
 Concen: 1.72 ug/ml
 RT: 8.782 min Scan# 2331
 Delta R.T. -0.003 min
 Lab File: 081606-5.D
 Acq: 21 Jun 2025 2:03 pm

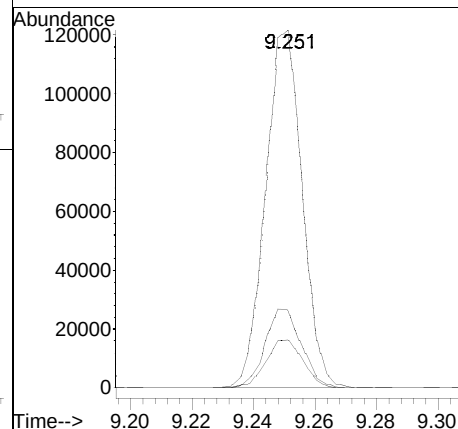
Tgt	Ion:200	Resp:	18069
Ion	Ratio	Lower	Upper
200	100		
202	31.3	25.8	38.6
215	41.2	40.2	60.4

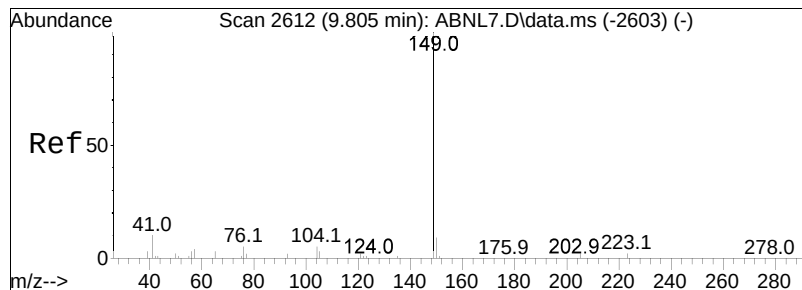




#93
 Carbazole
 Concen: 1.54 ug/ml
 RT: 9.251 min Scan# 2482
 Delta R.T. 0.000 min
 Lab File: 081606-5.D
 Acq: 21 Jun 2025 2:03 pm

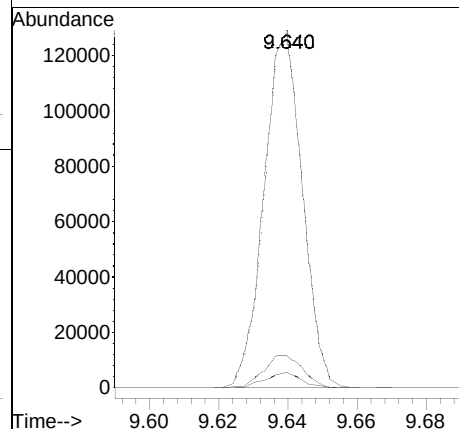
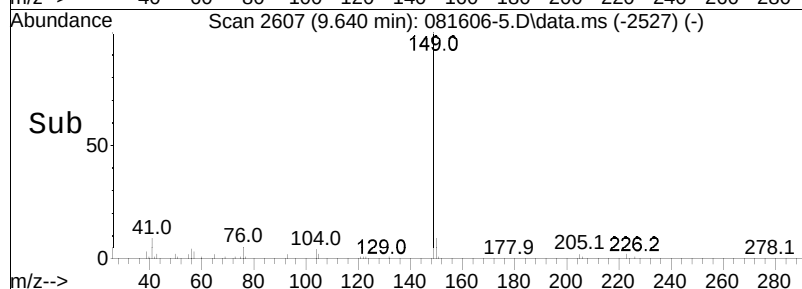
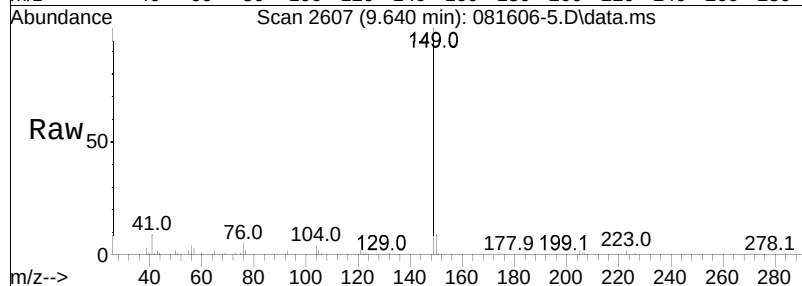
Tgt Ion	Ratio	Lower	Upper
167	100		
168	13.7	10.6	15.8
166	21.9	17.4	26.0

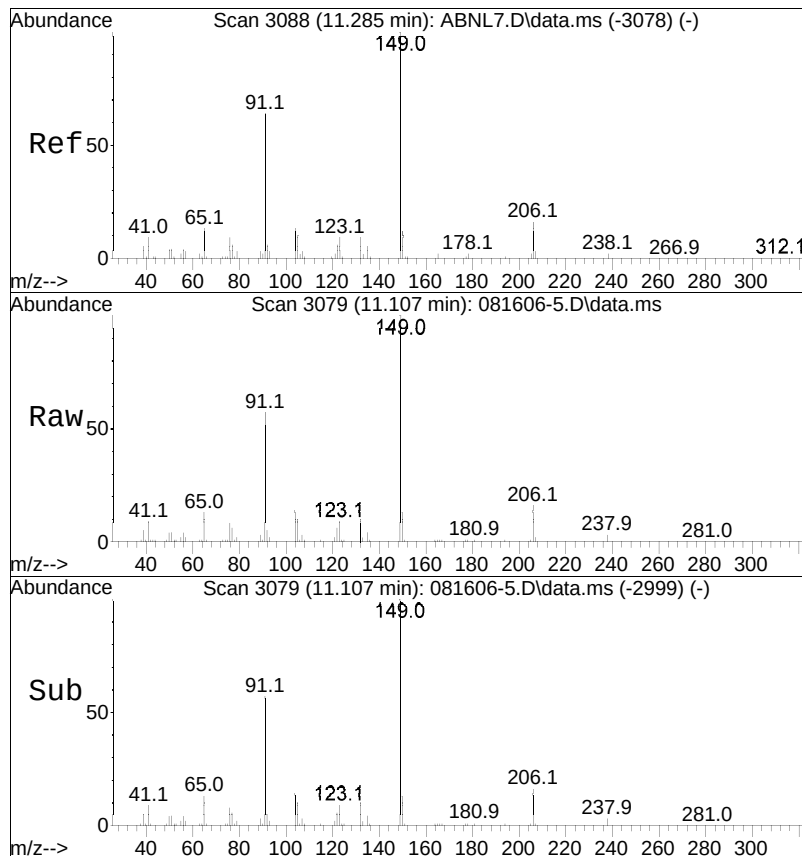




#94
 Di-n-butylphthalate
 Concen: 1.46 ug/ml
 RT: 9.640 min Scan# 2607
 Delta R.T. 0.000 min
 Lab File: 081606-5.D
 Acq: 21 Jun 2025 2:03 pm

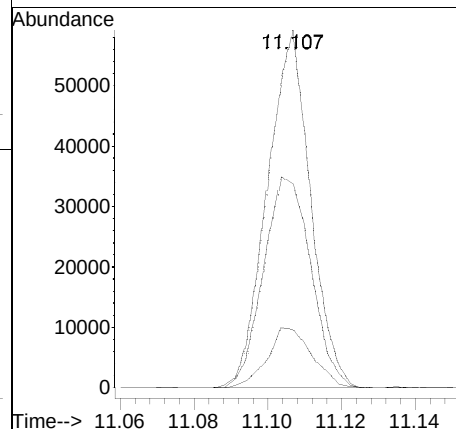
Tgt Ion	Ratio	Resp	Lower	Upper
149	100	97743		
150	9.5		7.0	10.6
104	4.1		4.5	6.7#

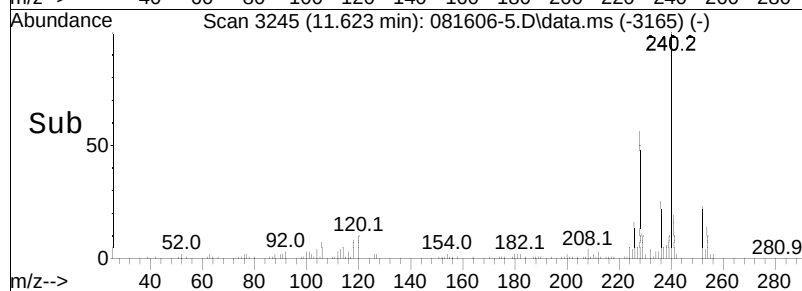
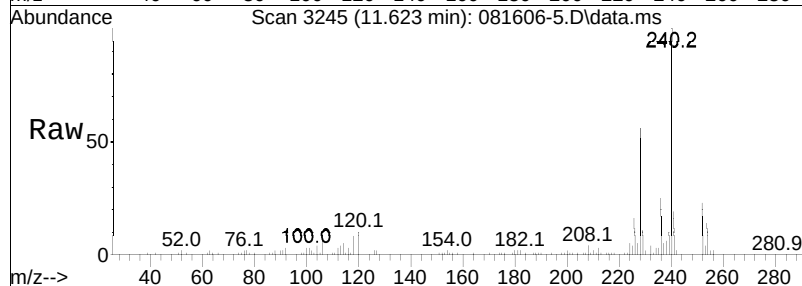
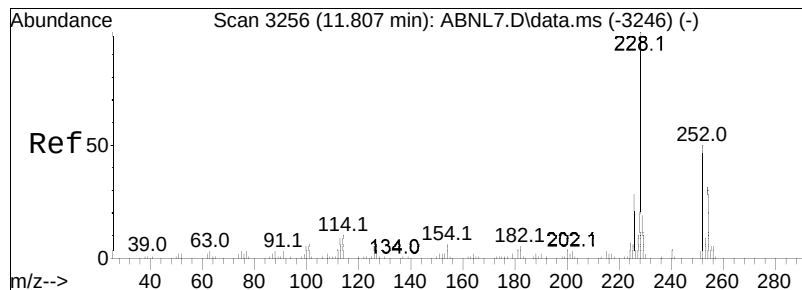




#99
 Butyl benzyl phthalate
 Concen: 1.64 ug/ml
 RT: 11.107 min Scan# 3079
 Delta R.T. 0.000 min
 Lab File: 081606-5.D
 Acq: 21 Jun 2025 2:03 pm

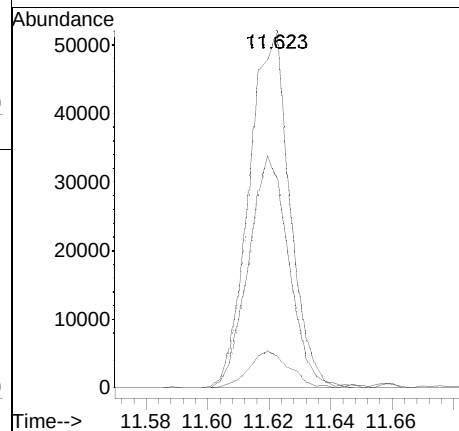
Tgt Ion:	149	Resp:	47652
Ion Ratio	Lower	Upper	
149	100		
91	65.0	63.3	94.9
206	17.7	13.9	20.9

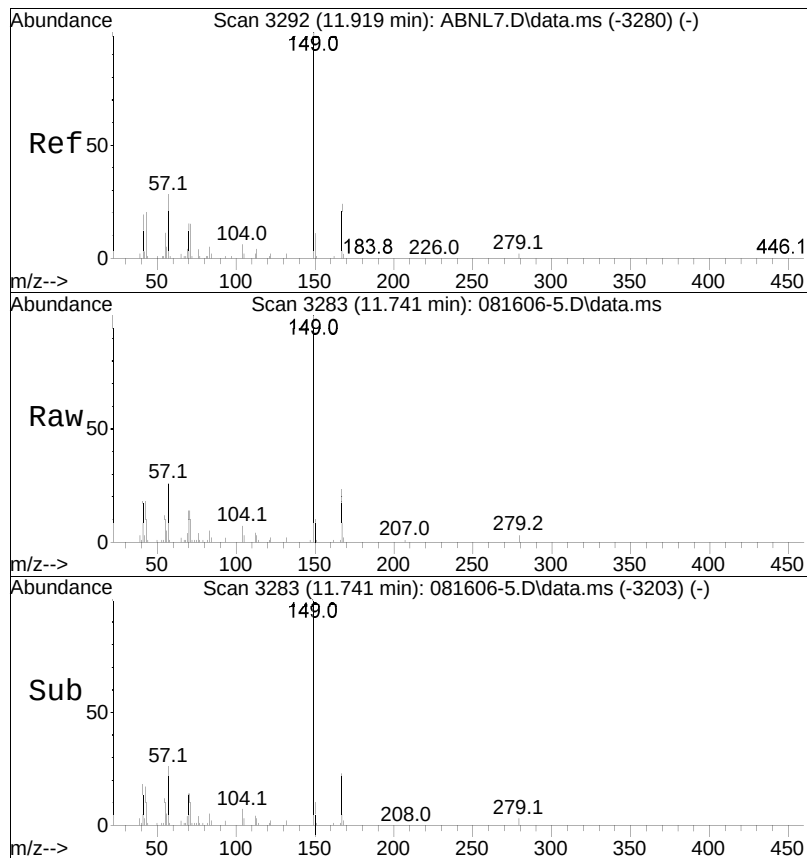




#108
 3,3'-Dichlorobenzidine
 Concen: 1.32 ug/ml
 RT: 11.623 min Scan# 3245
 Delta R.T. 0.000 min
 Lab File: 081606-5.D
 Acq: 21 Jun 2025 2:03 pm

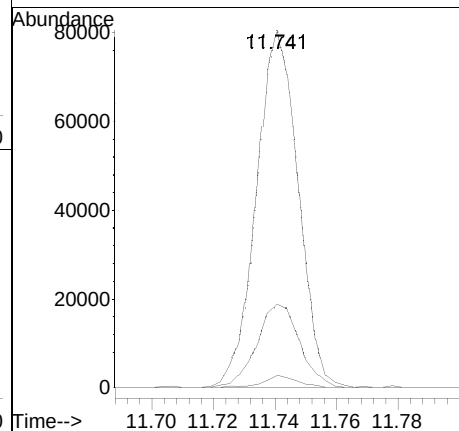
Tgt Ion	Ratio	Lower	Upper
252	100		
126	10.4	14.5	21.7#
254	64.5	51.2	76.8

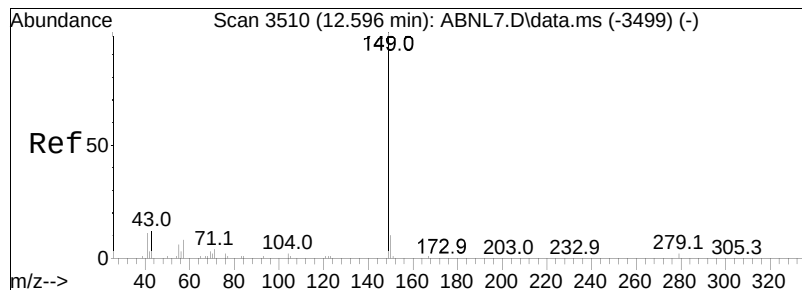




#110
 Bis(2-ethylhexyl)phthalate
 Concen: 1.47 ug/ml
 RT: 11.741 min Scan# 3283
 Delta R.T. 0.000 min
 Lab File: 081606-5.D
 Acq: 21 Jun 2025 2:03 pm

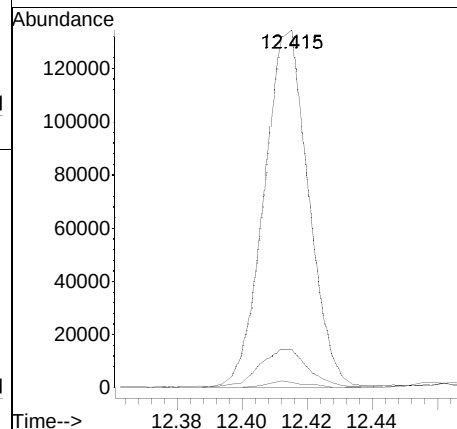
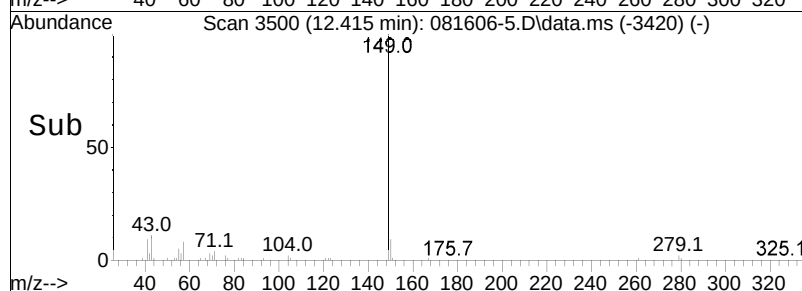
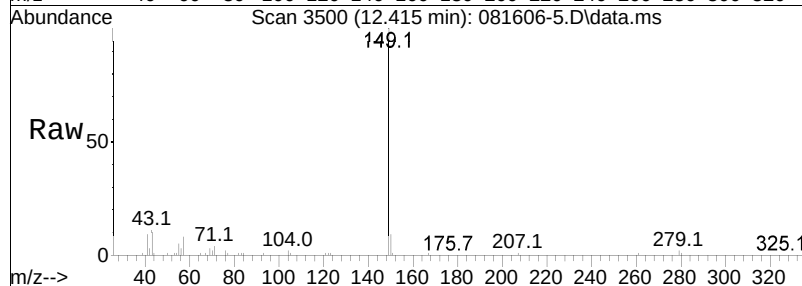
Tgt Ion	Ratio	Lower	Upper
149	100		
167	24.1	22.1	33.1
279	2.5	3.0	4.4#





#111
 Di-n-octylphthalate
 Concen: 1.52 ug/ml
 RT: 12.415 min Scan# 3500
 Delta R.T. 0.000 min
 Lab File: 081606-5.D
 Acq: 21 Jun 2025 2:03 pm

Tgt Ion	Ratio	Lower	Upper
149	100		
43	12.0	18.8	28.2#
167	1.4	1.3	1.9



Manual Integration Report

Data Path	: I:\8270\Dakota\250621RVT\	QMethod	: FS250416RVT_Dakota.m
Data File	: 081606-5.D	Operator	: Dakota:smz
Date Inj'd	: 6/21/2025 2:03 pm	Instrument	: Dakota
Sample	: WG2081606-5,32,,gmr	Quant Date	: 6/21/2025 2:22 pm

There are no manual integrations or false positives in this file.

Calculation of Semi Volatile Organic Compounds

Aqueous Concentration Formula: $Amt * DF * 1000 * (1/V_o) * V_f$

Where:

DF = Dilution Factor

V_o = Volume of Sample (mL)

V_f = Extraction Lab Final Volume (mL)

Soil Concentration Formula: $Amt * DF * 1000 * (1/W_t) * V_f * (100/TS)$

Where:

DF = Dilution Factor

W_t = Weight of Sample (g)

V_f = Extraction Lab Final Volume (mL)

TS = Total Solids

PACE ANALYTICAL SERVICES

PACE WORK GROUP REPORT (wk02)

Jun 27 2025, 12:59 pm

Work Group: WG2081606 for Department: 2 Organic Preparation

Created: 20-JUN-25 Due: Operator: YAS

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2538382-01	MW-8S	C NYTCL-8270-RVT	WATER	DONE	U	0625	0627	S0	Amber-A.1
L2538382-02	MW-8D	C NYTCL-8270-RVT	WATER	DONE	U	0625	0627	S0	Amber-A.1
L2538382-03	MW-5D	C NYTCL-8270-RVT	WATER	DONE	U	0625	0627	S0	Amber-A.1
L2538382-04	PZ-5	C NYTCL-8270-RVT	WATER	DONE	U	0625	0627	S0	Amber-A.1
L2538382-05	MW-12S	C NYTCL-8270-RVT	WATER	DONE	U	0625	0627	S0	Amber-A.1
L2538382-06	MW-12D	C NYTCL-8270-RVT	WATER	DONE	U	0625	0627	S0	Amber-A.1
L2538382-07	DUP_06182025	C NYTCL-8270-RVT	WATER	DONE	U	0625	0627	S0	Amber-A.1
WG2081606-1	Laboratory Method Bl	S NYTCL-8270-RVT	WATER	DONE	U				
WG2081606-2	Laboratory Control S	S NYTCL-8270-RVT	WATER	DONE	U				
WG2081606-3	LCS Duplicate	S NYTCL-8270-RVT	WATER	DONE	U				
WG2081606-4	Matrix Spike	S NYTCL-8270-RVT	WATER	DONE	U				
WG2081606-5	Matrix Spike Duplica	S NYTCL-8270-RVT	WATER	DONE	U				
Comments:									
WG2081606-3	WG2081606-2								
WG2081606-4	L2538382-06								
WG2081606-5	L2538382-06								

Dep.: GCMS
 Inst: DAKOTA
 Date: **04/13/25**
 Run: **ICAL**

Method
 GC: ABNRVT
 Seq: **WG2080969**
 ICAL: 22203



Vial	Data File	Sample	CCAL/Notes	Screen	Verified	Initials
100	Tune1	Tune1 Lot # 11483				
1	ABNL9	IL2,32,,ABNL50 Lot# 11532	Full List			
2	ABNL8	IL3,32,,ABNL25 Lot# 11533				
3	ABNL7	IL4,32,,ABNL10 Lot# 11534				
4	ABNL6	IL5,32,,ABNL5 Lot# 11535				
5	ABNL5	IL6,32,,ABNL2.5 Lot# 11536				
6	ABNL4	IL7,32,,ABNL1 Lot# 11537				
7	ABNL3	IL8,32,,ABNL0.5 Lot# 11538				
8	ABNL2	IL9,32,,ABNL0.2 Lot# 11539				
9	ABNL1	IL10,32,,ABNL0.1 Lot# 11540				
10	AP9L9	IL2,32,,AP9L50 Lot# 11541				
11	AP9L8	IL3,32,,AP9L25 Lot# 11542				
12	AP9L7	IL4,32,,AP9L10 Lot# 11543				
13	AP9L6	IL5,32,,AP9L5 Lot# 11544				
14	AP9L5	IL6,32,,AP9L2.5 Lot# 11545				
15	AP9L4	IL7,32,,AP9L1 Lot# 11546				
16	AP9L3	IL8,32,,AP9L0.5 Lot# 11547				
17	AP9L2	IL9,32,,AP9L0.2 Lot# 11548				
18	AP9L1	IL10,32,,AP9L0.1 Lot# 11549				
19	ABNICV	CQICV1,32,,ABNICV Lot# 11559				
20	AP9ICV	CQICV2,32,,AP9ICV Lot# 11560				
100	Tune2	Tune2 Lot # 11483				
21	ADPL9	IL2,32,,ADPL50 Lot# 11550				
22	ADPL8	IL3,32,,ADPL25 Lot# 11551				
23	ADPL7	IL4,32,,ADPL10 Lot# 11552				
24	ADPL6	IL5,32,,ADPL5 Lot# 11553				
25	ADPL5	IL6,32,,ADPL2.5 Lot# 11554				
26	ADPL4	IL7,32,,ADPL1 Lot# 11555				
27	ADPL3	IL8,32,,ADPL0.5 Lot# 11556				
28	ADPL2	IL9,32,,ADPL0.2 Lot# 11557				
29	ADPL1	IL10,32,,ADPL0.1 Lot# 11558				
30	ADPICV	CQICV,32,,ADPICV Lot# 11561				
31	Blank	Instrument Blank			mrg	
					sv-gmr	

Dep.: GCMS
 Inst: DAKOTA
 Date: 06/21/25
 Run:

Method
 GC: ABNRVT
 Seq: **WG2081719**
 ICAL: 22203



Vial	Data File	Sample	CCAL/Notes	Screen	Verified	Initials
100	DEG0621	wg-1,32,,Degdftpp Lot # 11649				imk 6/23
96	ABN0621	wg-3,32,,ABN 11297 gmr0620	Passing full list, Pyridine low			imk 6/23
97	AP90621	wg-4,32,,AP9 11662 gmr0619A				imk 6/23
98	ADP0621	wg-5,32,,ADP 11661 dv0617A				imk 6/23
1	081621-1	WG2081621-1,32,,gmr				imk 6/23
2	081621-2	WG2081621-2,32,,gmr				imk 6/23
3	081621-3	WG2081621-3,32,,gmr				imk 6/23
4	36851-04	L2536851-04,32,,RE,gmr	10x OC NAP			cmm 6/22
5	081606-2	WG2081606-2,32,,gmr				smz 6/26
6	081606-3	WG2081606-3,32,,gmr				smz 6/26
7	081606-1	WG2081606-1,32,,gmr				smz 6/26
8	081033-2	WG2081033-2,32,,gmr				smz 6/26
9	081033-3	WG2081033-3,32,,gmr				smz 6/26
10	081033-1	WG2081033-1,32,,gmr				smz 6/26
11	38382-01	L2538382-01,32,,gmr				smz 6/26
12	38382-02	L2538382-02,32,,gmr				smz 6/26
13	38382-03	L2538382-03,32,,gmr				smz 6/26
14	38382-04	L2538382-04,32,,gmr				smz 6/26
15	38382-05	L2538382-05,32,,gmr				smz 6/26
16	38382-06	L2538382-06,32,,gmr				smz 6/26
17	081606-4	WG2081606-4,32,,gmr				smz 6/26
18	081606-5	WG2081606-5,32,,gmr				smz 6/26
19	38382-07	L2538382-07,32,,gmr				smz 6/26
20	38365-07	L2538365-07,32,,gmr				smz 6/26
21	38365-06	L2538365-06,32,,gmr				smz 6/26
22	38365-14	L2538365-14,32,,gmr				smz 6/26
23	38365-15	L2538365-15,32,,gmr				smz 6/26
24	38365-16	L2538365-16,32,,gmr				smz 6/26
25	38365-04	L2538365-04,32,,gmr				smz 6/26
26	38365-03	L2538365-03,32,,gmr				smz 6/26
27	38365-05	L2538365-05,32,,gmr			gmr	smz 6/26
					sv-cmm	



ORGANIC ELN REPORT

Workgroup: WG2081606

Prep Method: EPA 3510C Solvent Type: DCM Surrogate Type: ABN Spike Type: ABN Spike Verify by: RSN Lims Spikelot: 8270-RVT Additional Reagents/Stdts <table><tr><td>H2SO4</td><td>A052225</td></tr><tr><td>Na2SO4</td><td>244434</td></tr><tr><td>NaOH</td><td>10NNaOH061425</td></tr></table>	H2SO4	A052225	Na2SO4	244434	NaOH	10NNaOH061425	Conc.Method: Buchi Solvent Type: DCM Lot #: EK254 Additional Reagents/Stdts	Cleanup 1 Cleanup Method 1: Cleanup Method 2: Solvent Type:Lot #: Additional Reagents/Stdts
H2SO4	A052225							
Na2SO4	244434							
NaOH	10NNaOH061425							

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Conc Date	Analyst	Final Vol ml	Conc Unit
L2538382-01 SAMP	06/20/25 17:05	Richard Nyarko	100	<2,>12	.1		06/20/25 23:04	Victor Kono	1	K
L2538382-02 SAMP	06/20/25 17:05	Richard Nyarko	100	<2,>12	.1		06/20/25 23:04	Victor Kono	1	K
L2538382-03 SAMP	06/20/25 17:05	Richard Nyarko	100	<2,>12	.1		06/20/25 23:04	Victor Kono	1	K
L2538382-04 SAMP	06/20/25 17:05	Richard Nyarko	100	<2,>12	.1		06/20/25 23:04	Victor Kono	1	K
L2538382-05 SAMP	06/20/25 17:05	Richard Nyarko	100	<2,>12	.1		06/20/25 23:04	Victor Kono	1	K
L2538382-06 SAMP	06/20/25 17:05	Richard Nyarko	100	<2,>12	.1		06/20/25 23:04	Victor Kono	1	K
L2538382-07 SAMP	06/20/25 17:05	Richard Nyarko	100	<2,>12	.1		06/20/25 23:04	Victor Kono	1	K



ORGANIC ELN REPORT

Workgroup: WG2081606

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Conc Date	Analyst	Final Vol ml	Conc Unit
WG2081606 -1 BLANK	06/20/25 17:05	Richard Nyarko	100	<2,>12	.1		06/20/25 23:04	Victor Kono	1	K
	WG2081607									
WG2081606 -2 LCS	06/20/25 17:05	Richard Nyarko	100	<2,>12	.1	.1	06/20/25 23:04	Victor Kono	1	K
WG2081606 -3 LCSD	06/20/25 17:05	Richard Nyarko	100	<2,>12	.1	.1	06/20/25 23:04	Victor Kono	1	K
WG2081606 -4 MS	06/20/25 17:05	Richard Nyarko	100	<2,>12	.1	.1	06/20/25 23:04	Victor Kono	1	K
WG2081606 -5 MSD	06/20/25 17:05	Richard Nyarko	100	<2,>12	.1	.1	06/20/25 23:04	Victor Kono	1	K

Semivolatiles Data by Method 8270D-SIM

Semivolatiles QC Summary

Surrogate Recovery Summary

Form 2

Semivolatiles

Client: Roux Env. Eng. & Geology, DPC
Project Name: CORAM MATERIALS

Lab Number: L2538382
Project Number: 2232.0006Y005
Matrix: Water

CLIENT ID (LAB SAMPLE NO.)	S1 (2FP)	S2 (PHL)	S3 (NBZ)	S4 (FBP)	S5 (TBP)	S6 (TPH)	TOT OUT
MW-8S (L2538382-01)	37	27	54	56	46	59	0
MW-8D (L2538382-02)	49	37	72	73	55	77	0
MW-5D (L2538382-03)	51	38	70	79	64	83	0
PZ-5 (L2538382-04)	58	44	80	88	82	95	0
MW-12S (L2538382-05)	48	36	69	74	56	77	0
MW-12D (L2538382-06)	51	38	68	74	60	78	0
DUP_06182025 (L2538382-07)	50	38	72	76	58	78	0
WG2081607-1BLANK	47	36	66	75	39	77	0
WG2081607-2LCS	63	47	77	85	71	79	0
WG2081607-3LCSD	54	41	69	73	60	69	0
MW-12DMS	60	46	75	81	67	73	0
MW-12DMSD	62	48	72	80	69	76	0

QC LIMITS

(21-120) 2FP = 2-FLUOROPHENOL
(10-120) PHL = PHENOL-D6
(23-120) NBZ = NITROBENZENE-D5
(15-120) FBP = 2-FLUOROBIPHENYL
(10-120) TBP = 2,4,6-TRIBROMOPHENOL
(41-149) TPH = 4-TERPHENYL-D14

* Values outside of QC limits

FORM II NYTCL-8270-SIM-RVT



Laboratory Control Sample Summary

Form 3

Semivolatiles

Client : Roux Env. Eng. & Geology, DPC Lab Number : L2538382
 Project Name : CORAM MATERIALS Project Number : 2232.0006Y005
 Matrix (Level) : WATER (LOW)
 LCS Sample ID : WG2081607-2 Analysis Date : 06/27/25 17:02 File ID : 081607-2
 LCSD Sample ID : WG2081607-3 Analysis Date : 06/27/25 17:19 File ID : 081607-3

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ug/l)	Found (ug/l)	%R	True (ug/l)	Found (ug/l)	%R			
Acenaphthene	20	16	81	20	14	70	15	40-140	40
2-Chloronaphthalene	20	15	75	20	13	66	13	40-140	40
Fluoranthene	20	17	84	20	15	75	11	40-140	40
Hexachlorobutadiene	20	10	50	20	8.9	44	13	40-140	40
Naphthalene	20	14	71	20	12	62	14	40-140	40
Benzo(a)anthracene	20	20	99	20	18	88	12	40-140	40
Benzo(a)pyrene	20	20	102	20	18	91	11	40-140	40
Benzo(b)fluoranthene	20	22	111	20	20	99	11	40-140	40
Benzo(k)fluoranthene	20	21	104	20	19	95	9	40-140	40
Chrysene	20	19	97	20	17	87	11	40-140	40
Acenaphthylene	20	16	82	20	14	73	12	40-140	40
Anthracene	20	17	85	20	15	74	14	40-140	40
Benzo(ghi)perylene	20	22	108	20	19	97	11	40-140	40
Fluorene	20	17	84	20	15	73	14	40-140	40
Phenanthrene	20	17	85	20	15	76	11	40-140	40
Dibenzo(a,h)anthracene	20	20	101	20	18	90	12	40-140	40
Indeno(1,2,3-cd)pyrene	20	20	102	20	18	93	9	40-140	40
Pyrene	20	16	81	20	15	73	10	40-140	40
2-Methylnaphthalene	20	14	72	20	13	64	12	40-140	40
Pentachlorophenol	20	18	88	20	15	76	15	40-140	40
Hexachlorobenzene	20	14	72	20	12	60	18	40-140	40
Hexachloroethane	20	11	55	20	10	50	10	40-140	40
Bis(2-chloroethyl)ether	20	17	84	20	15	75	11	40-140	40



Matrix Spike Sample Summary

Form 3

Semivolatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : MW-12D
 Lab Sample ID : L2538382-06
 Matrix Spike : WG2081607-4
 Matrix Spike Dup : WG2081607-5

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Matrix (Level) : WATER (LOW)
 Analysis Date : 06/27/25 18:59
 MS Analysis Date : 06/27/25 19:33
 MSD Analysis Date : 06/27/25 19:49

Parameter	Sample Conc. (ug/l)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R			
Acenaphthene	ND	20	15	75	20	15	75	0	40-140	40
2-Chloronaphthalene	ND	20	14	70	20	14	70	0	40-140	40
Fluoranthene	ND	20	16	80	20	16	80	0	40-140	40
Hexachlorobutadiene	ND	20	9.0	45	20	8.5	43	6	40-140	40
Naphthalene	ND	20	13	65	20	13	65	0	40-140	40
Benzo(a)anthracene	ND	20	19	95	20	19	95	0	40-140	40
Benzo(a)pyrene	ND	20	20	100	20	20	100	0	40-140	40
Benzo(b)fluoranthene	ND	20	22	110	20	22	110	0	40-140	40
Benzo(k)fluoranthene	ND	20	21	110	20	21	110	0	40-140	40
Chrysene	ND	20	19	95	20	19	95	0	40-140	40
Acenaphthylene	ND	20	16	80	20	16	80	0	40-140	40
Anthracene	ND	20	16	80	20	16	80	0	40-140	40
Benzo(ghi)perylene	ND	20	21	110	20	21	110	0	40-140	40
Fluorene	ND	20	16	80	20	16	80	0	40-140	40
Phenanthrene	ND	20	16	80	20	16	80	0	40-140	40
Dibenzo(a,h)anthracene	ND	20	20	100	20	19	95	5	40-140	40
Indeno(1,2,3-cd)pyrene	ND	20	20	100	20	20	100	0	40-140	40
Pyrene	ND	20	15	75	20	16	80	6	40-140	40
2-Methylnaphthalene	ND	20	14	70	20	13	65	7	40-140	40
Pentachlorophenol	ND	20	18	90	20	17	85	6	40-140	40
Hexachlorobenzene	ND	20	14	70	20	14	70	0	40-140	40
Hexachloroethane	ND	20	10	50	20	9.2	46	8	40-140	40



Matrix Spike Sample Summary

Form 3

Semivolatiles

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Client Sample ID	: MW-12D	Matrix (Level)	: WATER (LOW)
Lab Sample ID	: L2538382-06	Analysis Date	: 06/27/25 18:59
Matrix Spike	: WG2081607-4	MS Analysis Date	: 06/27/25 19:33
Matrix Spike Dup	: WG2081607-5	MSD Analysis Date	: 06/27/25 19:49

Parameter	Sample Conc. (ug/l)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (ug/l)	Spike Conc. (ug/l)	%R	Spike Added (ug/l)	Spike Conc. (ug/l)	%R			
Bis(2-chloroethyl)ether	ND	20	17	85	20	16	80	6	40-140	40

**Method Blank Summary
Form 4
Semivolatiles**

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab Sample ID	: WG2081607-1	Lab File ID	: 081607-1
Instrument ID	: SV119	Extraction Date	: 06/20/25
Matrix	: WATER	Analysis Date	: 06/27/25 16:45
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG2081607-2LCS	WG2081607-2	06/27/25 17:02
WG2081607-3LCSD	WG2081607-3	06/27/25 17:19
MW-8S	L2538382-01	06/27/25 17:35
MW-8D	L2538382-02	06/27/25 17:52
MW-5D	L2538382-03	06/27/25 18:09
PZ-5	L2538382-04	06/27/25 18:26
MW-12S	L2538382-05	06/27/25 18:42
MW-12D	L2538382-06	06/27/25 18:59
DUP_06182025	L2538382-07	06/27/25 19:16
MW-12DMS	WG2081607-4	06/27/25 19:33
MW-12DMSD	WG2081607-5	06/27/25 19:49

Instrument Performance Check (Tune) Summary
Form 5
Semivolatiles
Decafluorotriphenylphosphine (DFTPP)

Client : Roux Env. Eng. & Geology, DPC	Lab Number : L2538382
Project Name : CORAM MATERIALS	Project Number : 2232.0006Y005
Instrument ID : SV119	Analysis Date : 06/25/25 19:48
Tune Standard : R1981927-2	Tune File ID : TUNE_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	47
68	Less than 2.0% of mass 69	0.8 (2)1
69		100
70	Less than 2.0% of mass 69	0.2 (.4)1
127	10.0 - 80.0% of Base Peak	50.5
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.6
275	10.0 - 60.0% of Base Peak	24
365	Greater than 1.0% of mass 198	3.3
441	Present, but less than 24% of mass 442	18.8
442	Base Peak, or >50% of mass 198	85.2
443	15.0 - 24.0% of mass 442	16.2 (19)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
L10	R1981927-4	L10	06/25/25 20:07
L9	R1981927-10	L9	06/25/25 20:23
L8	R1981927-11	L8	06/25/25 20:40
L7	R1981927-12	L7	06/25/25 20:57
L6	R1981927-9	L6	06/25/25 21:14
L5	R1981927-8	L5	06/25/25 21:31
L4	R1981927-7	L4	06/25/25 21:48
L3	R1981927-6	L3	06/25/25 22:04
L2	R1981927-5	L2	06/25/25 22:24
L1	R1981927-3	L1	06/25/25 22:41
ICV Quant Report	R1981927-1	ICV	06/25/25 22:58



Instrument Performance Check (Tune) Summary

Form 5

Semivolatiles

Decafluorotriphenylphosphine (DFTPP)

Client : Roux Env. Eng. & Geology, DPC	Lab Number : L2538382
Project Name : CORAM MATERIALS	Project Number : 2232.0006Y005
Instrument ID : SV119	Analysis Date : 06/27/25 15:44
Tune Standard : WG2084498-1	Tune File ID : deg0627n_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	53.7
68	Less than 2.0% of mass 69	0.8 (1.9)1
69		100
70	Less than 2.0% of mass 69	0.1 (.3)1
127	10.0 - 80.0% of Base Peak	53.8
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	7
275	10.0 - 60.0% of Base Peak	25
365	Greater than 1.0% of mass 198	2.6
441	Present, but less than 24% of mass 442	19.3
442	Base Peak, or >50% of mass 198	71.7
443	15.0 - 24.0% of mass 442	13.7 (19.2)2

1-Value is % of mass 69 2-Value is % of mass 442

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG2084498-4TFACTOR-B	WG2084498-4	DEG0627N	06/27/25 15:44
WG2084498-5TFACTOR-P	WG2084498-5	DEG0627N	06/27/25 15:44
WG2084498-3CCAL	WG2084498-3	CCV0627N	06/27/25 16:09
WG2081607-1BLANK	WG2081607-1	081607-1	06/27/25 16:45
WG2081607-2LCS	WG2081607-2	081607-2	06/27/25 17:02
WG2081607-3LCSD	WG2081607-3	081607-3	06/27/25 17:19
MW-8S	L2538382-01	38382-01	06/27/25 17:35
MW-8D	L2538382-02	38382-02	06/27/25 17:52
MW-5D	L2538382-03	38382-03	06/27/25 18:09
PZ-5	L2538382-04	38382-04	06/27/25 18:26
MW-12S	L2538382-05	38382-05	06/27/25 18:42
MW-12D	L2538382-06	38382-06	06/27/25 18:59
DUP_06182025	L2538382-07	38382-07	06/27/25 19:16
WG2081607-4MS	WG2081607-4	081607-4	06/27/25 19:33
WG2081607-5MSD	WG2081607-5	081607-5	06/27/25 19:49



Internal Standard Area and RT Summary

Form 8a

Semivolatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : SV119
 Sample No : WG2084498-3

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Analysis Date : 06/27/25 16:09:00
 Lab File ID : CCV0627N

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG2084498-3	237452	2.29	908349	2.95	521676	3.93
Upper Limit	474904	2.79	1816698	3.45	1043352	4.43
Lower Limit	118726	1.79	454175	2.45	260838	3.43
Sample ID						
WG2081607-1 BLANK	232553	2.30	863622	2.96	511558	3.93
WG2081607-2 LCS	243186	2.30	945156	2.96	554140	3.93
WG2081607-3 LCSD	245736	2.30	989071	2.96	571748	3.93
MW-8S	326583	2.30	1283903	2.96	745242	3.93
MW-8D	250714	2.30	979912	2.96	585532	3.93
MW-5D	239803	2.30	880813	2.96	519254	3.93
PZ-5	220053	2.30	806824	2.96	455599	3.93
MW-12S	245927	2.30	940340	2.96	555424	3.93
MW-12D	263996	2.30	1000613	2.96	585147	3.93
DUP_06182025	238917	2.30	934395	2.96	562264	3.93
MW-12D MS	257045	2.30	1035077	2.96	639201	3.93
MW-12D MSD	251044	2.30	973803	2.96	588621	3.93

Area Upper Limit = +100% of internal standard area
 Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
 RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits



Internal Standard Area and RT Summary

Form 8a

Semivolatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : SV119
 Sample No : WG2084498-3

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Analysis Date : 06/27/25 16:09:00
 Lab File ID : CCV0627N

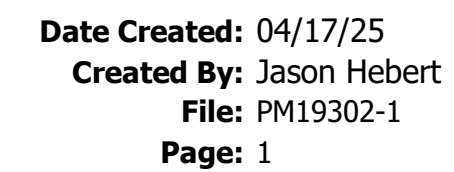
	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG2084498-3	1047157	4.77	1073641	6.41	1075366	7.67
Upper Limit	2094314	5.27	2147282	6.91	2150732	8.17
Lower Limit	523579	4.27	536821	5.91	537683	7.17
Sample ID						
WG2081607-1 BLANK	1061930	4.77	1076655	6.36	1038787	7.61
WG2081607-2 LCS	1144617	4.77	1092413	6.36	1076653	7.61
WG2081607-3 LCSD	1200241	4.77	1114915	6.35	1128765	7.60
MW-8S	1558255	4.77	1592933	6.35	1490352	7.60
MW-8D	1204503	4.77	1224151	6.35	1141924	7.60
MW-5D	1071237	4.77	1138437	6.35	1105533	7.60
PZ-5	950424	4.77	905891	6.35	810152	7.59
MW-12S	1190066	4.77	1171010	6.35	1070766	7.60
MW-12D	1223780	4.77	1091466	6.35	1153243	7.59
DUP_06182025	1187239	4.77	832711	6.35	1025389	7.59
MW-12D MS	1319573	4.77	1208078	6.35	1109016	7.60
MW-12D MSD	1242178	4.77	1107946	6.35	1035665	7.60

Area Upper Limit = +100% of internal standard area
 Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
 RT Lower Limit = -0.50 minutes of internal standard RT

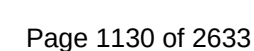
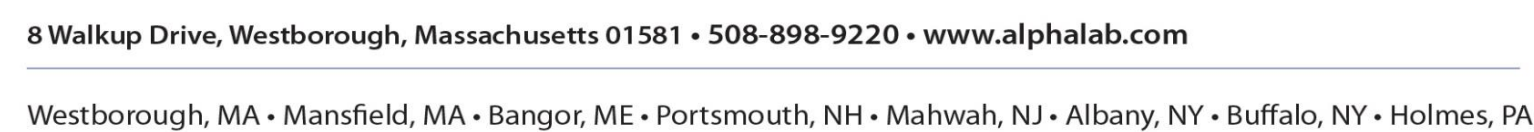
* Values outside of QC limits





Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 100ml unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Pace Analytical Services.



Semivolatile Sample Data

Results Summary

Form 1

Semivolatile Organics by GC/MS-SIM

Client : Roux Env. Eng. & Geology, DPC Project Name : CORAM MATERIALS Lab ID : L2538382-01 Client ID : MW-8S Sample Location : 416 MILLER PLACE-YAPHANK RD. Sample Matrix : WATER Analytical Method : 1,8270E-SIM Lab File ID : 38382-01 Sample Amount : 100 ml Extraction Method : EPA 3510C Extract Volume : 1000 uL GPC Cleanup : N	Lab Number : L2538382 Project Number : 2232.0006Y005 Date Collected : 06/18/25 09:00 Date Received : 06/18/25 Date Analyzed : 06/27/25 17:35 Date Extracted : 06/20/25 Dilution Factor : 1 Analyst : DV Instrument ID : SV119 GC Column : RXI-5SiLM %Solids : N/A Injection Volume : 1 uL
---	--

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
83-32-9	Acenaphthene	ND	0.10	0.02	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.03	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.02	U
91-20-3	Naphthalene	ND	0.10	0.02	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.03	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.03	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.03	U
218-01-9	Chrysene	ND	0.10	0.03	U
208-96-8	Acenaphthylene	ND	0.10	0.02	U
120-12-7	Anthracene	ND	0.10	0.02	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.02	U
86-73-7	Fluorene	ND	0.10	0.03	U
85-01-8	Phenanthrene	ND	0.10	0.04	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.02	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.02	U
129-00-0	Pyrene	ND	0.10	0.04	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.03	U
87-86-5	Pentachlorophenol	ND	0.80	0.06	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.02	U



Results Summary

Form 1

Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-01	Date Collected	: 06/18/25 09:00
Client ID	: MW-8S	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/27/25 17:35
Sample Matrix	: WATER	Date Extracted	: 06/20/25
Analytical Method	: 1,8270E-SIM	Dilution Factor	: 1
Lab File ID	: 38382-01	Analyst	: DV
Sample Amount	: 100 ml	Instrument ID	: SV119
Extraction Method	: EPA 3510C	GC Column	: RXI-5SilM
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U



Results Summary

Form 1

Semivolatile Organics by GC/MS-SIM

Client : Roux Env. Eng. & Geology, DPC Project Name : CORAM MATERIALS Lab ID : L2538382-02 Client ID : MW-8D Sample Location : 416 MILLER PLACE-YAPHANK RD. Sample Matrix : WATER Analytical Method : 1,8270E-SIM Lab File ID : 38382-02 Sample Amount : 100 ml Extraction Method : EPA 3510C Extract Volume : 1000 uL GPC Cleanup : N	Lab Number : L2538382 Project Number : 2232.0006Y005 Date Collected : 06/18/25 09:05 Date Received : 06/18/25 Date Analyzed : 06/27/25 17:52 Date Extracted : 06/20/25 Dilution Factor : 1 Analyst : DV Instrument ID : SV119 GC Column : RXI-5SiLM %Solids : N/A Injection Volume : 1 uL
---	--

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
83-32-9	Acenaphthene	ND	0.10	0.02	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.03	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.02	U
91-20-3	Naphthalene	ND	0.10	0.02	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.03	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.03	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.03	U
218-01-9	Chrysene	ND	0.10	0.03	U
208-96-8	Acenaphthylene	ND	0.10	0.02	U
120-12-7	Anthracene	ND	0.10	0.02	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.02	U
86-73-7	Fluorene	ND	0.10	0.03	U
85-01-8	Phenanthrene	ND	0.10	0.04	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.02	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.02	U
129-00-0	Pyrene	ND	0.10	0.04	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.03	U
87-86-5	Pentachlorophenol	ND	0.80	0.06	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.02	U



Results Summary

Form 1

Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-02	Date Collected	: 06/18/25 09:05
Client ID	: MW-8D	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/27/25 17:52
Sample Matrix	: WATER	Date Extracted	: 06/20/25
Analytical Method	: 1,8270E-SIM	Dilution Factor	: 1
Lab File ID	: 38382-02	Analyst	: DV
Sample Amount	: 100 ml	Instrument ID	: SV119
Extraction Method	: EPA 3510C	GC Column	: RXI-5SilM
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U



Results Summary

Form 1

Semivolatile Organics by GC/MS-SIM

Client : Roux Env. Eng. & Geology, DPC Project Name : CORAM MATERIALS Lab ID : L2538382-03 Client ID : MW-5D Sample Location : 416 MILLER PLACE-YAPHANK RD. Sample Matrix : WATER Analytical Method : 1,8270E-SIM Lab File ID : 38382-03 Sample Amount : 100 ml Extraction Method : EPA 3510C Extract Volume : 1000 uL GPC Cleanup : N	Lab Number : L2538382 Project Number : 2232.0006Y005 Date Collected : 06/18/25 10:30 Date Received : 06/18/25 Date Analyzed : 06/27/25 18:09 Date Extracted : 06/20/25 Dilution Factor : 1 Analyst : DV Instrument ID : SV119 GC Column : RXI-5SilM %Solids : N/A Injection Volume : 1 uL
---	--

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
83-32-9	Acenaphthene	ND	0.10	0.02	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.03	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.02	U
91-20-3	Naphthalene	ND	0.10	0.02	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.03	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.03	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.03	U
218-01-9	Chrysene	ND	0.10	0.03	U
208-96-8	Acenaphthylene	ND	0.10	0.02	U
120-12-7	Anthracene	ND	0.10	0.02	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.02	U
86-73-7	Fluorene	ND	0.10	0.03	U
85-01-8	Phenanthrene	ND	0.10	0.04	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.02	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.02	U
129-00-0	Pyrene	ND	0.10	0.04	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.03	U
87-86-5	Pentachlorophenol	ND	0.80	0.06	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.02	U



Results Summary

Form 1

Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-03	Date Collected	: 06/18/25 10:30
Client ID	: MW-5D	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/27/25 18:09
Sample Matrix	: WATER	Date Extracted	: 06/20/25
Analytical Method	: 1,8270E-SIM	Dilution Factor	: 1
Lab File ID	: 38382-03	Analyst	: DV
Sample Amount	: 100 ml	Instrument ID	: SV119
Extraction Method	: EPA 3510C	GC Column	: RXI-5SilM
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U



Results Summary

Form 1

Semivolatile Organics by GC/MS-SIM

Client : Roux Env. Eng. & Geology, DPC Project Name : CORAM MATERIALS Lab ID : L2538382-04 Client ID : PZ-5 Sample Location : 416 MILLER PLACE-YAPHANK RD. Sample Matrix : WATER Analytical Method : 1,8270E-SIM Lab File ID : 38382-04 Sample Amount : 100 ml Extraction Method : EPA 3510C Extract Volume : 1000 uL GPC Cleanup : N	Lab Number : L2538382 Project Number : 2232.0006Y005 Date Collected : 06/18/25 10:45 Date Received : 06/18/25 Date Analyzed : 06/27/25 18:26 Date Extracted : 06/20/25 Dilution Factor : 1 Analyst : DV Instrument ID : SV119 GC Column : RXI-5SilM %Solids : N/A Injection Volume : 1 uL
--	--

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
83-32-9	Acenaphthene	ND	0.10	0.02	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.03	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.02	U
91-20-3	Naphthalene	ND	0.10	0.02	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.03	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.03	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.03	U
218-01-9	Chrysene	ND	0.10	0.03	U
208-96-8	Acenaphthylene	ND	0.10	0.02	U
120-12-7	Anthracene	ND	0.10	0.02	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.02	U
86-73-7	Fluorene	ND	0.10	0.03	U
85-01-8	Phenanthrene	ND	0.10	0.04	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.02	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.02	U
129-00-0	Pyrene	ND	0.10	0.04	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.03	U
87-86-5	Pentachlorophenol	ND	0.80	0.06	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.02	U



Results Summary

Form 1

Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-04	Date Collected	: 06/18/25 10:45
Client ID	: PZ-5	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/27/25 18:26
Sample Matrix	: WATER	Date Extracted	: 06/20/25
Analytical Method	: 1,8270E-SIM	Dilution Factor	: 1
Lab File ID	: 38382-04	Analyst	: DV
Sample Amount	: 100 ml	Instrument ID	: SV119
Extraction Method	: EPA 3510C	GC Column	: RXI-5SilM
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U



Results Summary

Form 1

Semivolatile Organics by GC/MS-SIM

Client : Roux Env. Eng. & Geology, DPC Project Name : CORAM MATERIALS Lab ID : L2538382-05 Client ID : MW-12S Sample Location : 416 MILLER PLACE-YAPHANK RD. Sample Matrix : WATER Analytical Method : 1,8270E-SIM Lab File ID : 38382-05 Sample Amount : 100 ml Extraction Method : EPA 3510C Extract Volume : 1000 uL GPC Cleanup : N	Lab Number : L2538382 Project Number : 2232.0006Y005 Date Collected : 06/18/25 13:20 Date Received : 06/18/25 Date Analyzed : 06/27/25 18:42 Date Extracted : 06/20/25 Dilution Factor : 1 Analyst : DV Instrument ID : SV119 GC Column : RXI-5SiLM %Solids : N/A Injection Volume : 1 uL
--	--

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
83-32-9	Acenaphthene	ND	0.10	0.02	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	0.03	0.10	0.03	J
87-68-3	Hexachlorobutadiene	ND	0.50	0.02	U
91-20-3	Naphthalene	ND	0.10	0.02	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.03	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.03	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.03	U
218-01-9	Chrysene	ND	0.10	0.03	U
208-96-8	Acenaphthylene	ND	0.10	0.02	U
120-12-7	Anthracene	ND	0.10	0.02	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.02	U
86-73-7	Fluorene	ND	0.10	0.03	U
85-01-8	Phenanthrene	ND	0.10	0.04	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.02	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.02	U
129-00-0	Pyrene	ND	0.10	0.04	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.03	U
87-86-5	Pentachlorophenol	ND	0.80	0.06	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.02	U



Results Summary

Form 1

Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-05	Date Collected	: 06/18/25 13:20
Client ID	: MW-12S	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/27/25 18:42
Sample Matrix	: WATER	Date Extracted	: 06/20/25
Analytical Method	: 1,8270E-SIM	Dilution Factor	: 1
Lab File ID	: 38382-05	Analyst	: DV
Sample Amount	: 100 ml	Instrument ID	: SV119
Extraction Method	: EPA 3510C	GC Column	: RXI-5SilM
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U



Results Summary

Form 1

Semivolatile Organics by GC/MS-SIM

Client : Roux Env. Eng. & Geology, DPC Project Name : CORAM MATERIALS Lab ID : L2538382-06 Client ID : MW-12D Sample Location : 416 MILLER PLACE-YAPHANK RD. Sample Matrix : WATER Analytical Method : 1,8270E-SIM Lab File ID : 38382-06 Sample Amount : 100 ml Extraction Method : EPA 3510C Extract Volume : 1000 uL GPC Cleanup : N	Lab Number : L2538382 Project Number : 2232.0006Y005 Date Collected : 06/18/25 13:22 Date Received : 06/18/25 Date Analyzed : 06/27/25 18:59 Date Extracted : 06/20/25 Dilution Factor : 1 Analyst : DV Instrument ID : SV119 GC Column : RXI-5SiLM %Solids : N/A Injection Volume : 1 uL
--	--

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
83-32-9	Acenaphthene	ND	0.10	0.02	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.03	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.02	U
91-20-3	Naphthalene	ND	0.10	0.02	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.03	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.03	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.03	U
218-01-9	Chrysene	ND	0.10	0.03	U
208-96-8	Acenaphthylene	ND	0.10	0.02	U
120-12-7	Anthracene	ND	0.10	0.02	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.02	U
86-73-7	Fluorene	ND	0.10	0.03	U
85-01-8	Phenanthrene	ND	0.10	0.04	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.02	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.02	U
129-00-0	Pyrene	ND	0.10	0.04	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.03	U
87-86-5	Pentachlorophenol	ND	0.80	0.06	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.02	U



Results Summary

Form 1

Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-06	Date Collected	: 06/18/25 13:22
Client ID	: MW-12D	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/27/25 18:59
Sample Matrix	: WATER	Date Extracted	: 06/20/25
Analytical Method	: 1,8270E-SIM	Dilution Factor	: 1
Lab File ID	: 38382-06	Analyst	: DV
Sample Amount	: 100 ml	Instrument ID	: SV119
Extraction Method	: EPA 3510C	GC Column	: RXI-5SilM
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U

Results Summary

Form 1

Semivolatile Organics by GC/MS-SIM

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Lab ID : L2538382-07
 Client ID : DUP_06182025
 Sample Location : 416 MILLER PLACE-YAPHANK RD.
 Sample Matrix : WATER
 Analytical Method : 1,8270E-SIM
 Lab File ID : 38382-07
 Sample Amount : 100 ml
 Extraction Method : EPA 3510C
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Date Collected : 06/18/25 12:00
 Date Received : 06/18/25
 Date Analyzed : 06/27/25 19:16
 Date Extracted : 06/20/25
 Dilution Factor : 1
 Analyst : DV
 Instrument ID : SV119
 GC Column : RXI-5SiLM
 %Solids : N/A
 Injection Volume : 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
83-32-9	Acenaphthene	ND	0.10	0.02	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.03	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.02	U
91-20-3	Naphthalene	0.03	0.10	0.02	J
56-55-3	Benzo(a)anthracene	ND	0.10	0.03	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.03	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.03	U
218-01-9	Chrysene	ND	0.10	0.03	U
208-96-8	Acenaphthylene	ND	0.10	0.02	U
120-12-7	Anthracene	ND	0.10	0.02	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.02	U
86-73-7	Fluorene	ND	0.10	0.03	U
85-01-8	Phenanthrene	ND	0.10	0.04	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.02	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.02	U
129-00-0	Pyrene	ND	0.10	0.04	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.03	U
87-86-5	Pentachlorophenol	ND	0.80	0.06	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.02	U



Results Summary
Form 1
Semivolatile Organics by GC/MS-SIM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-07	Date Collected	: 06/18/25 12:00
Client ID	: DUP_06182025	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/27/25 19:16
Sample Matrix	: WATER	Date Extracted	: 06/20/25
Analytical Method	: 1,8270E-SIM	Dilution Factor	: 1
Lab File ID	: 38382-07	Analyst	: DV
Sample Amount	: 100 ml	Instrument ID	: SV119
Extraction Method	: EPA 3510C	GC Column	: RXI-5SilM
Extract Volume	: 1000 uL	%Solids	: N/A
GPC Cleanup	: N	Injection Volume	: 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U



Results Summary

Form 1

Semivolatile Organics by GC/MS-SIM

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Lab ID : WG2081607-1
 Client ID : WG2081607-1BLANK
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8270E-SIM
 Lab File ID : 081607-1
 Sample Amount : 100 ml
 Extraction Method : EPA 3510C
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 06/27/25 16:45
 Date Extracted : 06/20/25
 Dilution Factor : 1
 Analyst : DV
 Instrument ID : SV119
 GC Column : RXI-5SiLM
 %Solids : N/A
 Injection Volume : 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
83-32-9	Acenaphthene	ND	0.10	0.02	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.02	U
206-44-0	Fluoranthene	ND	0.10	0.03	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.02	U
91-20-3	Naphthalene	ND	0.10	0.02	U
56-55-3	Benzo(a)anthracene	ND	0.10	0.03	U
50-32-8	Benzo(a)pyrene	ND	0.10	0.02	U
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.03	U
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.03	U
218-01-9	Chrysene	ND	0.10	0.03	U
208-96-8	Acenaphthylene	ND	0.10	0.02	U
120-12-7	Anthracene	ND	0.10	0.02	U
191-24-2	Benzo(ghi)perylene	ND	0.10	0.02	U
86-73-7	Fluorene	ND	0.10	0.03	U
85-01-8	Phenanthrene	ND	0.10	0.04	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.02	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.02	U
129-00-0	Pyrene	ND	0.10	0.04	U
91-57-6	2-Methylnaphthalene	ND	0.10	0.03	U
87-86-5	Pentachlorophenol	ND	0.80	0.06	U
118-74-1	Hexachlorobenzene	ND	0.80	0.01	U
67-72-1	Hexachloroethane	ND	0.80	0.02	U



Results Summary

Form 1

Semivolatile Organics by GC/MS-SIM

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Lab ID : WG2081607-1
 Client ID : WG2081607-1BLANK
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 1,8270E-SIM
 Lab File ID : 081607-1
 Sample Amount : 100 ml
 Extraction Method : EPA 3510C
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 06/27/25 16:45
 Date Extracted : 06/20/25
 Dilution Factor : 1
 Analyst : DV
 Instrument ID : SV119
 GC Column : RXI-5SilM
 %Solids : N/A
 Injection Volume : 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
111-44-4	Bis(2-chloroethyl)ether	ND	0.10	0.05	U



Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250627nRVT\
 Data File : 38382-01.D
 Acq On : 27 Jun 2025 05:35 pm
 Operator : sv119:dv
 Sample : L2538382-01,32,,DV
 Misc : WG2084498,WG2081607,ical22426
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 27 18:10:09 2025
 Quant Method : I:\8270sim\sv119\250627nRVT\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jun 27 16:24:54 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\250627nRVT\ccv0627n.D
 Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.303	152	326583	4000.000	ng/ml	0.02
Standard Area 1 = 237452			Recovery	=	137.54%	
9) Naphthalene-d8	2.963	136	1283903	4000.000	ng/ml	0.02
Standard Area 1 = 908349			Recovery	=	141.34%	
18) Acenaphthene-d10	3.932	164	745242	4000.000	ng/ml	0.00
Standard Area 1 = 521676			Recovery	=	142.86%	
23) Phenanthrene-d10	4.766	188	1558255	4000.000	ng/ml	0.00
Standard Area 1 = 1047157			Recovery	=	148.81%	
33) Chrysene-d12	6.353	240	1592933	4000.000	ng/ml	-0.06
Standard Area 1 = 1073641			Recovery	=	148.37%	
38) Perylene-d12	7.603	264	1490352	4000.000	ng/ml	-0.06
Standard Area 1 = 1075366			Recovery	=	138.59%	
System Monitoring Compounds						
3) 2-Fluorophenol	1.720	112	70546	747.528	ng/ml	0.03
Spiked Amount 2000.000	Range 15 - 110		Recovery	=	37.38%	
4) Phenol-d6	2.110	99	62593	533.970	ng/ml	0.02
Spiked Amount 2000.000	Range 15 - 110		Recovery	=	26.70%	
8) Nitrobenzene-d5	2.579	82	57853	538.963	ng/ml	0.02
Spiked Amount 1000.000	Range 30 - 130		Recovery	=	53.90%	
14) 2-Fluorobiphenyl	3.555	172	160847	559.075	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	=	55.91%	
22) 2,4,6-Tribromophenol	4.374	330	39587	925.188	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	=	46.26%	
32) 4-Terphenyl-d14	5.691	244	254159	589.979	ng/ml	-0.04
Spiked Amount 1000.000	Range 30 - 130		Recovery	=	59.00%	
Target Compounds						
						Qvalue
5) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
7) Hexachloroethane	0.000		0	N.D.		
10) Naphthalene	0.000		0	N.D.	d	
11) Hexachlorobutadiene	0.000		0	N.D.		
12) 2-Methylnaphthalene	0.000		0	N.D.	d	
15) 2-Chloronaphthalene	0.000		0	N.D.	d	
17) Acenaphthylene	0.000		0	N.D.	d	
19) Acenaphthene	0.000		0	N.D.	d	
21) Fluorene	0.000		0	N.D.	d	
25) Hexachlorobenzene	0.000		0	N.D.	d	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250627nRVT\
 Data File : 38382-01.D
 Acq On : 27 Jun 2025 05:35 pm
 Operator : sv119:dv
 Sample : L2538382-01,32,,DV
 Misc : WG2084498,WG2081607,ical22426
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 27 18:10:09 2025
 Quant Method : I:\8270sim\sv119\250627nRVT\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jun 27 16:24:54 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\250627nRVT\ccv0627n.D
 Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Pentachlorophenol	0.000		0	N.D.	d	
27) Phenanthrene	0.000		0	N.D.	d	
28) Anthracene	0.000		0	N.D.	d	
29) Fluoranthene	0.000		0	N.D.	d	
30) Pyrene	0.000		0	N.D.	d	
34) Benzo[a]anthracene	0.000		0	N.D.	d	
36) Chrysene	0.000		0	N.D.	d	
39) Benzo[b]fluoranthene	0.000		0	N.D.	d	
40) Benzo[k]fluoranthene	0.000		0	N.D.	d	
41) Benzo[a]pyrene	0.000		0	N.D.	d	
42) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
43) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
44) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

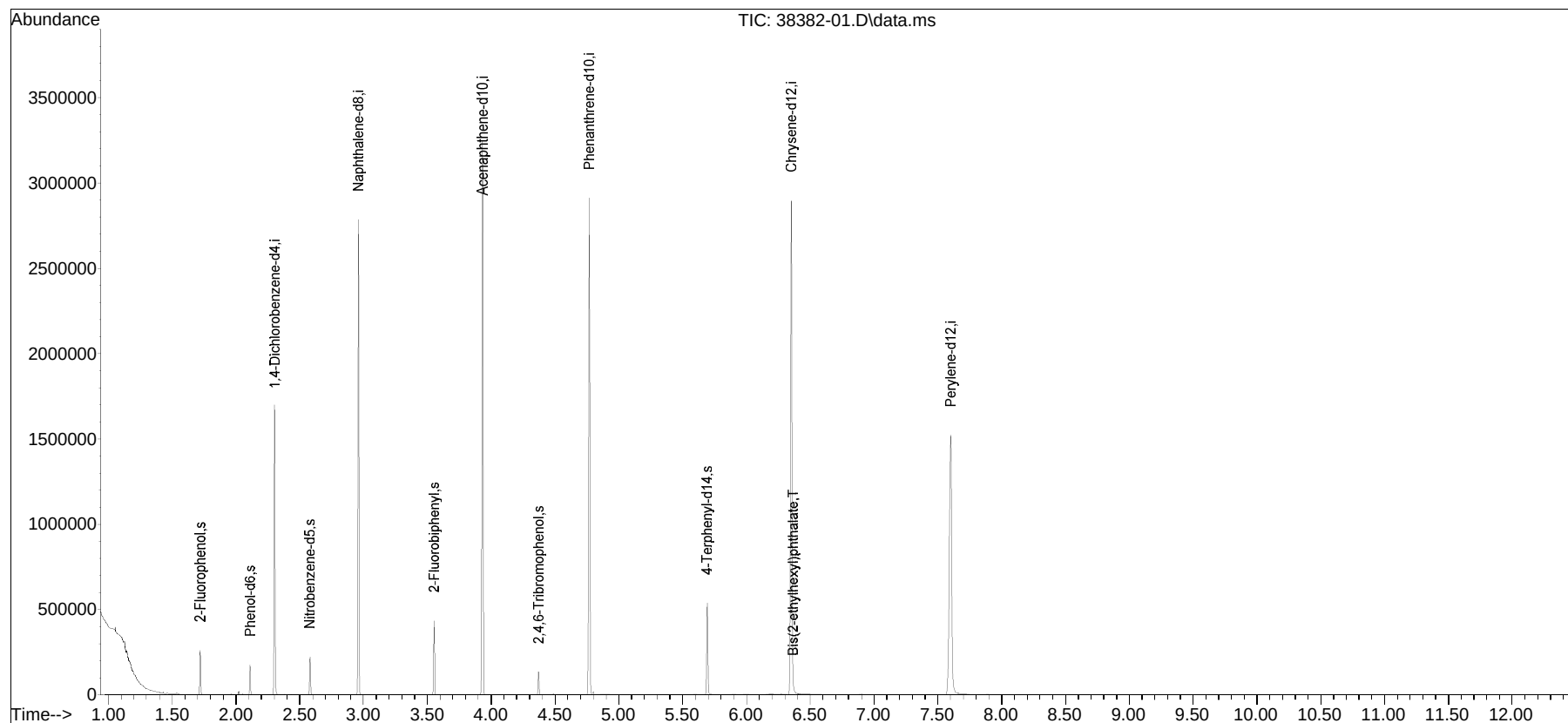
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250627nRVT\
 Data File : 38382-01.D
 Acq On : 27 Jun 2025 05:35 pm
 Operator : sv119:dv
 Sample : L2538382-01,32,,DV
 Misc : WG2084498,WG2081607,ical22426
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 27 18:10:09 2025
 Quant Method : I:\8270sim\sv119\250627nRVT\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jun 27 16:24:54 2025
 Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedT\ccv0627n.D•



Manual Integration Report

Data Path	: I:\8270SIM\sv119\250627nRV01	Method	: SIM-RVT_250625_sv119.M
Data File	: 38382-01.D	Operator	: sv119:dv
Date Inj'd	: 6/27/2025 5:35 pm	Instrument	: SV119
Sample	: L2538382-01,32,,DV	Quant Date	: 6/27/2025 5:49 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250627nRVT\
 Data File : 38382-02.D
 Acq On : 27 Jun 2025 05:52 pm
 Operator : sv119:dv
 Sample : L2538382-02,32,,DV
 Misc : WG2084498,WG2081607,ical22426
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 27 18:10:49 2025
 Quant Method : I:\8270sim\sv119\250627nRVT\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jun 27 16:24:54 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\250627nRVT\ccv0627n.D
 Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.302	152	250714	4000.000	ng/ml	0.02
Standard Area 1 = 237452			Recovery	= 105.59%		
9) Naphthalene-d8	2.962	136	979912	4000.000	ng/ml	0.01
Standard Area 1 = 908349			Recovery	= 107.88%		
18) Acenaphthene-d10	3.933	164	585532	4000.000	ng/ml	0.00
Standard Area 1 = 521676			Recovery	= 112.24%		
23) Phenanthrene-d10	4.765	188	1204503	4000.000	ng/ml	0.00
Standard Area 1 = 1047157			Recovery	= 115.03%		
33) Chrysene-d12	6.349	240	1224151	4000.000	ng/ml	-0.06
Standard Area 1 = 1073641			Recovery	= 114.02%		
38) Perylene-d12	7.596	264	1141924	4000.000	ng/ml	-0.07
Standard Area 1 = 1075366			Recovery	= 106.19%		
System Monitoring Compounds						
3) 2-Fluorophenol	1.720	112	71006	980.088	ng/ml	0.03
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 49.00%		
4) Phenol-d6	2.111	99	66229	735.960	ng/ml	0.02
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 36.80%		
8) Nitrobenzene-d5	2.578	82	59397	720.796	ng/ml	0.02
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 72.08%		
14) 2-Fluorobiphenyl	3.554	172	161192	734.084	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 73.41%		
22) 2,4,6-Tribromophenol	4.373	330	36846	1096.009	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 54.80%		
32) 4-Terphenyl-d14	5.690	244	257515	773.329	ng/ml	-0.04
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 77.33%		
Target Compounds						
5) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	Qvalue
7) Hexachloroethane	0.000		0	N.D.		
10) Naphthalene	0.000		0	N.D.	d	
11) Hexachlorobutadiene	0.000		0	N.D.		
12) 2-Methylnaphthalene	0.000		0	N.D.	d	
15) 2-Chloronaphthalene	0.000		0	N.D.	d	
17) Acenaphthylene	0.000		0	N.D.	d	
19) Acenaphthene	0.000		0	N.D.	d	
21) Fluorene	0.000		0	N.D.	d	
25) Hexachlorobenzene	0.000		0	N.D.	d	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250627nRVT\
 Data File : 38382-02.D
 Acq On : 27 Jun 2025 05:52 pm
 Operator : sv119:dv
 Sample : L2538382-02,32,,DV
 Misc : WG2084498,WG2081607,ical22426
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 27 18:10:49 2025
 Quant Method : I:\8270sim\sv119\250627nRVT\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jun 27 16:24:54 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\250627nRVT\ccv0627n.D
 Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Pentachlorophenol	0.000		0	N.D.	d	
27) Phenanthrene	0.000		0	N.D.	d	
28) Anthracene	0.000		0	N.D.	d	
29) Fluoranthene	0.000		0	N.D.	d	
30) Pyrene	0.000		0	N.D.	d	
34) Benzo[a]anthracene	0.000		0	N.D.	d	
36) Chrysene	0.000		0	N.D.	d	
39) Benzo[b]fluoranthene	0.000		0	N.D.	d	
40) Benzo[k]fluoranthene	0.000		0	N.D.	d	
41) Benzo[a]pyrene	0.000		0	N.D.	d	
42) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
43) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
44) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

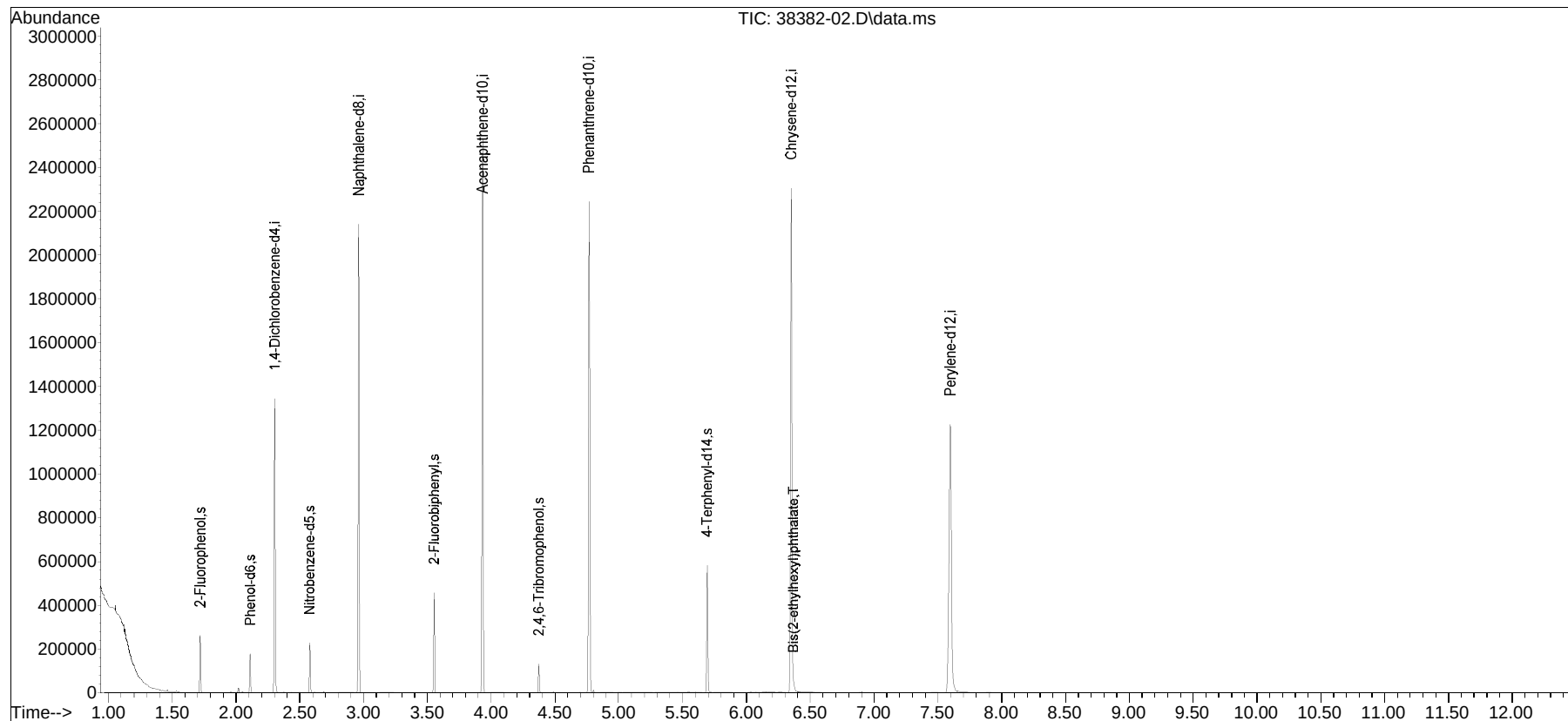
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250627nRVT\
 Data File : 38382-02.D
 Acq On : 27 Jun 2025 05:52 pm
 Operator : sv119:dv
 Sample : L2538382-02,32,,DV
 Misc : WG2084498,WG2081607,ical22426
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 27 18:10:49 2025
 Quant Method : I:\8270sim\sv119\250627nRVT\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jun 27 16:24:54 2025
 Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedT\ccv0627n.D•



Manual Integration Report

Data Path	: I:\8270SIM\sv119\250627nRV01	Method	: SIM-RVT_250625_sv119.M
Data File	: 38382-02.D	Operator	: sv119:dv
Date Inj'd	: 6/27/2025 5:52 pm	Instrument	: SV119
Sample	: L2538382-02,32,,DV	Quant Date	: 6/27/2025 6:06 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250627nRVT\
 Data File : 38382-03.D
 Acq On : 27 Jun 2025 06:09 pm
 Operator : sv119:dv
 Sample : L2538382-03,32,,DV
 Misc : WG2084498,WG2081607,ical22426
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 27 19:28:08 2025
 Quant Method : I:\8270sim\sv119\250627nRVT\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jun 27 16:24:54 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\250627nRVT\ccv0627n.D
 Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.302	152	239803	4000.000	ng/ml	0.02
Standard Area 1 = 237452			Recovery	=	100.99%	
9) Naphthalene-d8	2.962	136	880813	4000.000	ng/ml	0.01
Standard Area 1 = 908349			Recovery	=	96.97%	
18) Acenaphthene-d10	3.933	164	519254	4000.000	ng/ml	0.00
Standard Area 1 = 521676			Recovery	=	99.54%	
23) Phenanthrene-d10	4.765	188	1071237	4000.000	ng/ml	0.00
Standard Area 1 = 1047157			Recovery	=	102.30%	
33) Chrysene-d12	6.350	240	1138437	4000.000	ng/ml	-0.06
Standard Area 1 = 1073641			Recovery	=	106.04%	
38) Perylene-d12	7.602	264	1105533	4000.000	ng/ml	-0.07
Standard Area 1 = 1075366			Recovery	=	102.81%	
System Monitoring Compounds						
3) 2-Fluorophenol	1.720	112	70763	1021.175	ng/ml	0.03
Spiked Amount 2000.000	Range 15 - 110		Recovery	=	51.06%	
4) Phenol-d6	2.111	99	65488	760.837	ng/ml	0.02
Spiked Amount 2000.000	Range 15 - 110		Recovery	=	38.04%	
8) Nitrobenzene-d5	2.578	82	55230	700.724	ng/ml	0.02
Spiked Amount 1000.000	Range 30 - 130		Recovery	=	70.07%	
14) 2-Fluorobiphenyl	3.554	172	155155	786.088	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	=	78.61%	
22) 2,4,6-Tribromophenol	4.375	330	38239	1282.629	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	=	64.13%	
32) 4-Terphenyl-d14	5.690	244	246257	831.520	ng/ml	-0.04
Spiked Amount 1000.000	Range 30 - 130		Recovery	=	83.15%	
Target Compounds						
5) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	Qvalue
7) Hexachloroethane	0.000		0	N.D.		
10) Naphthalene	0.000		0	N.D.	d	
11) Hexachlorobutadiene	0.000		0	N.D.		
12) 2-Methylnaphthalene	0.000		0	N.D.	d	
15) 2-Chloronaphthalene	0.000		0	N.D.	d	
17) Acenaphthylene	0.000		0	N.D.	d	
19) Acenaphthene	0.000		0	N.D.	d	
21) Fluorene	0.000		0	N.D.	d	
25) Hexachlorobenzene	0.000		0	N.D.	d	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250627nRVT\
 Data File : 38382-03.D
 Acq On : 27 Jun 2025 06:09 pm
 Operator : sv119:dv
 Sample : L2538382-03,32,,DV
 Misc : WG2084498,WG2081607,ical22426
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 27 19:28:08 2025
 Quant Method : I:\8270sim\sv119\250627nRVT\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jun 27 16:24:54 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\250627nRVT\ccv0627n.D
 Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Pentachlorophenol	0.000		0	N.D.	d	
27) Phenanthrene	0.000		0	N.D.	d	
28) Anthracene	0.000		0	N.D.	d	
29) Fluoranthene	0.000		0	N.D.	d	
30) Pyrene	0.000		0	N.D.	d	
34) Benzo[a]anthracene	0.000		0	N.D.	d	
36) Chrysene	0.000		0	N.D.	d	
39) Benzo[b]fluoranthene	0.000		0	N.D.	d	
40) Benzo[k]fluoranthene	0.000		0	N.D.	d	
41) Benzo[a]pyrene	0.000		0	N.D.	d	
42) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.		
43) Dibenzo[a,h]anthracene	0.000		0	N.D.		
44) Benzo[g,h,i]perylene	0.000		0	N.D.		

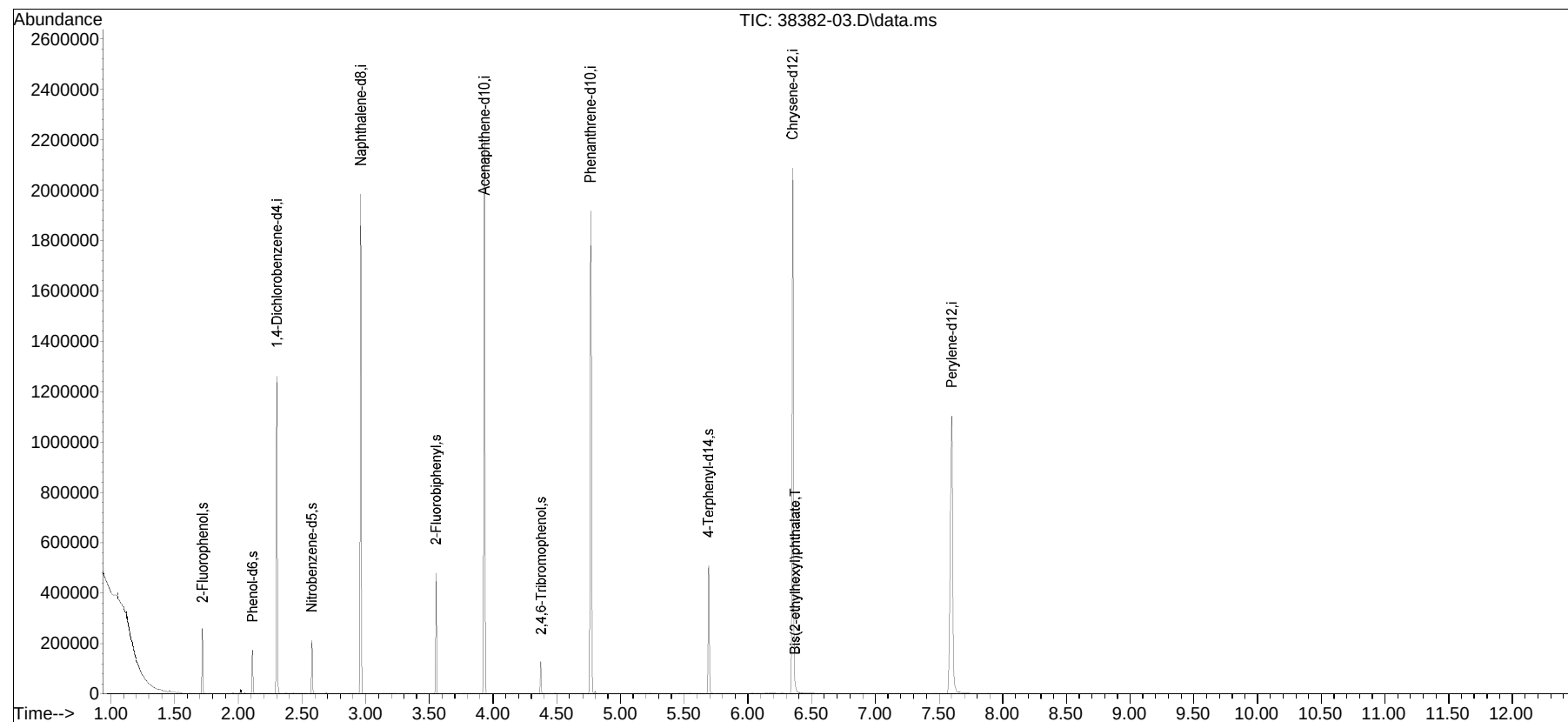
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250627nRVT\
 Data File : 38382-03.D
 Acq On : 27 Jun 2025 06:09 pm
 Operator : sv119:dv
 Sample : L2538382-03,32,,DV
 Misc : WG2084498,WG2081607,ical22426
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 27 19:28:08 2025
 Quant Method : I:\8270sim\sv119\250627nRVT\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jun 27 16:24:54 2025
 Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedT\ccv0627n.D•



Manual Integration Report

Data Path	: I:\8270SIM\sv119\250627nRV01	Method	: SIM-RVT_250625_sv119.M
Data File	: 38382-03.D	Operator	: sv119:dv
Date Inj'd	: 6/27/2025 6:09 pm	Instrument	: SV119
Sample	: L2538382-03,32,,DV	Quant Date	: 6/27/2025 6:23 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250627nRVT\
 Data File : 38382-04.D
 Acq On : 27 Jun 2025 06:26 pm
 Operator : sv119:dv
 Sample : L2538382-04,32,,DV
 Misc : WG2084498,WG2081607,ical22426
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 27 19:43:25 2025
 Quant Method : I:\8270sim\sv119\250627nRVT\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jun 27 16:24:54 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\250627nRVT\ccv0627n.D
 Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.302	152	220053	4000.000	ng/ml	0.02
Standard Area 1 = 237452			Recovery	=	92.67%	
9) Naphthalene-d8	2.962	136	806824	4000.000	ng/ml	0.01
Standard Area 1 = 908349			Recovery	=	88.82%	
18) Acenaphthene-d10	3.933	164	455599	4000.000	ng/ml	0.00
Standard Area 1 = 521676			Recovery	=	87.33%	
23) Phenanthrene-d10	4.765	188	950424	4000.000	ng/ml	0.00
Standard Area 1 = 1047157			Recovery	=	90.76%	
33) Chrysene-d12	6.350	240	905891	4000.000	ng/ml	-0.06
Standard Area 1 = 1073641			Recovery	=	84.38%	
38) Perylene-d12	7.594	264	810152	4000.000	ng/ml	-0.07
Standard Area 1 = 1075366			Recovery	=	75.34%	
System Monitoring Compounds						
3) 2-Fluorophenol	1.720	112	74349	1169.220	ng/ml	0.03
Spiked Amount 2000.000	Range 15 - 110		Recovery	=	58.46%	
4) Phenol-d6	2.111	99	69170	875.740	ng/ml	0.02
Spiked Amount 2000.000	Range 15 - 110		Recovery	=	43.79%	
8) Nitrobenzene-d5	2.578	82	58187	804.499	ng/ml	0.02
Spiked Amount 1000.000	Range 30 - 130		Recovery	=	80.45%	
14) 2-Fluorobiphenyl	3.554	172	159190	880.494	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	=	88.05%	
22) 2,4,6-Tribromophenol	4.373	330	42808	1636.503	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	=	81.83%	
32) 4-Terphenyl-d14	5.690	244	248403	945.385	ng/ml	-0.04
Spiked Amount 1000.000	Range 30 - 130		Recovery	=	94.54%	
Target Compounds						
						Qvalue
5) Bis(2-chloroethyl)ether	0.000		0		N.D.	d
7) Hexachloroethane	0.000		0		N.D.	
10) Naphthalene	0.000		0		N.D.	d
11) Hexachlorobutadiene	0.000		0		N.D.	
12) 2-Methylnaphthalene	0.000		0		N.D.	d
15) 2-Chloronaphthalene	0.000		0		N.D.	d
17) Acenaphthylene	0.000		0		N.D.	d
19) Acenaphthene	0.000		0		N.D.	d
21) Fluorene	0.000		0		N.D.	d
25) Hexachlorobenzene	0.000		0		N.D.	d

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250627nRVT\
 Data File : 38382-04.D
 Acq On : 27 Jun 2025 06:26 pm
 Operator : sv119:dv
 Sample : L2538382-04,32,,DV
 Misc : WG2084498,WG2081607,ical22426
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 27 19:43:25 2025
 Quant Method : I:\8270sim\sv119\250627nRVT\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jun 27 16:24:54 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\250627nRVT\ccv0627n.D
 Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Pentachlorophenol	0.000		0	N.D.	d	
27) Phenanthrene	0.000		0	N.D.	d	
28) Anthracene	0.000		0	N.D.	d	
29) Fluoranthene	0.000		0	N.D.	d	
30) Pyrene	0.000		0	N.D.	d	
34) Benzo[a]anthracene	0.000		0	N.D.	d	
36) Chrysene	0.000		0	N.D.	d	
39) Benzo[b]fluoranthene	0.000		0	N.D.	d	
40) Benzo[k]fluoranthene	0.000		0	N.D.	d	
41) Benzo[a]pyrene	0.000		0	N.D.	d	
42) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
43) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
44) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

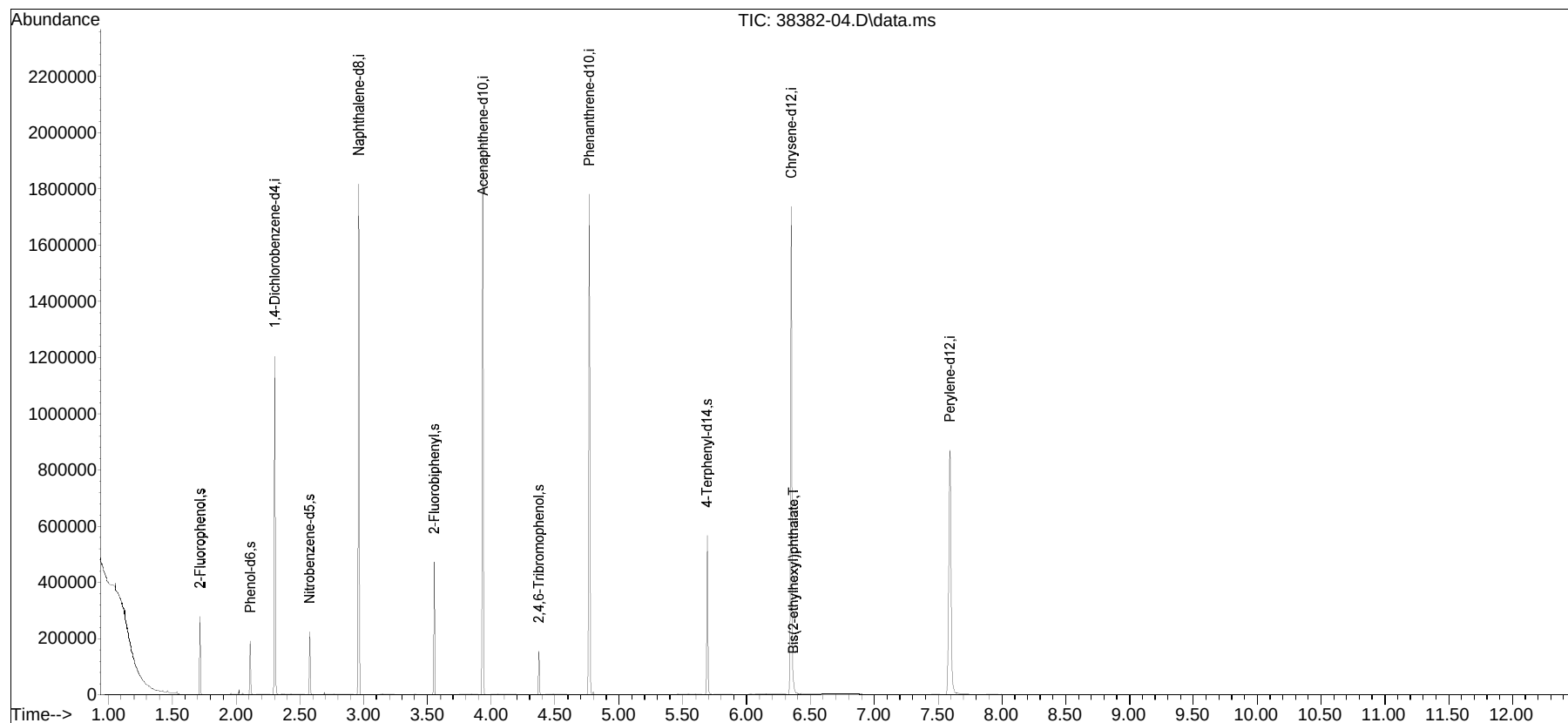
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250627nRVT\
 Data File : 38382-04.D
 Acq On : 27 Jun 2025 06:26 pm
 Operator : sv119:dv
 Sample : L2538382-04,32,,DV
 Misc : WG2084498,WG2081607,ical22426
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 27 19:43:25 2025
 Quant Method : I:\8270sim\sv119\250627nRVT\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jun 27 16:24:54 2025
 Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedT\ccv0627n.D•



Manual Integration Report

Data Path	: I:\8270SIM\sv119\250627nRV01	Method	: SIM-RVT_250625_sv119.M
Data File	: 38382-04.D	Operator	: sv119:dv
Date Inj'd	: 6/27/2025 6:26 pm	Instrument	: SV119
Sample	: L2538382-04,32,,DV	Quant Date	: 6/27/2025 6:39 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250627nRVT\
 Data File : 38382-05.D
 Acq On : 27 Jun 2025 06:42 pm
 Operator : sv119:dv
 Sample : L2538382-05,32,,DV
 Misc : WG2084498,WG2081607,ical22426
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 27 19:54:20 2025
 Quant Method : I:\8270sim\sv119\250627nRVT\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jun 27 16:24:54 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\250627nRVT\ccv0627n.D
 Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.302	152	245927	4000.000	ng/ml	0.02
Standard Area 1 = 237452			Recovery	=	103.57%	
9) Naphthalene-d8	2.962	136	940340	4000.000	ng/ml	0.01
Standard Area 1 = 908349			Recovery	=	103.52%	
18) Acenaphthene-d10	3.933	164	555424	4000.000	ng/ml	0.00
Standard Area 1 = 521676			Recovery	=	106.47%	
23) Phenanthrene-d10	4.765	188	1190066	4000.000	ng/ml	0.00
Standard Area 1 = 1047157			Recovery	=	113.65%	
33) Chrysene-d12	6.349	240	1171010	4000.000	ng/ml	-0.06
Standard Area 1 = 1073641			Recovery	=	109.07%	
38) Perylene-d12	7.601	264	1070766	4000.000	ng/ml	-0.07
Standard Area 1 = 1075366			Recovery	=	99.57%	
System Monitoring Compounds						
3) 2-Fluorophenol	1.718	112	68551	964.620	ng/ml	0.03
Spiked Amount 2000.000	Range 15 - 110		Recovery	=	48.23%	
4) Phenol-d6	2.109	99	63999	725.023	ng/ml	0.02
Spiked Amount 2000.000	Range 15 - 110		Recovery	=	36.25%	
8) Nitrobenzene-d5	2.578	82	55459	686.108	ng/ml	0.02
Spiked Amount 1000.000	Range 30 - 130		Recovery	=	68.61%	
14) 2-Fluorobiphenyl	3.554	172	155843	739.591	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	=	73.96%	
22) 2,4,6-Tribromophenol	4.374	330	35750	1121.052	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	=	56.05%	
32) 4-Terphenyl-d14	5.690	244	252247	766.698	ng/ml	-0.04
Spiked Amount 1000.000	Range 30 - 130		Recovery	=	76.67%	
Target Compounds						
						Qvalue
5) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
7) Hexachloroethane	0.000		0	N.D.		
10) Naphthalene	0.000		0	N.D.	d	
11) Hexachlorobutadiene	0.000		0	N.D.		
12) 2-Methylnaphthalene	0.000		0	N.D.	d	
15) 2-Chloronaphthalene	0.000		0	N.D.	d	
17) Acenaphthylene	0.000		0	N.D.	d	
19) Acenaphthene	0.000		0	N.D.	d	
21) Fluorene	0.000		0	N.D.	d	
25) Hexachlorobenzene	0.000		0	N.D.	d	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250627nRVT\
 Data File : 38382-05.D
 Acq On : 27 Jun 2025 06:42 pm
 Operator : sv119:dv
 Sample : L2538382-05,32,,DV
 Misc : WG2084498,WG2081607,ical22426
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 27 19:54:20 2025
 Quant Method : I:\8270sim\sv119\250627nRVT\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jun 27 16:24:54 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\250627nRVT\ccv0627n.D
 Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Pentachlorophenol	0.000		0	N.D.	d	
27) Phenanthrene	4.776	178	1157M6	3.214	ng/ml	
28) Anthracene	0.000		0	N.D.	d	
29) Fluoranthene	5.465	202	1526	3.218	ng/ml	96
30) Pyrene	5.597	202	1037	2.078	ng/ml	99
34) Benzo[a]anthracene	0.000		0	N.D.	d	
36) Chrysene	0.000		0	N.D.	d	
39) Benzo[b]fluoranthene	0.000		0	N.D.	d	
40) Benzo[k]fluoranthene	0.000		0	N.D.	d	
41) Benzo[a]pyrene	0.000		0	N.D.	d	
42) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
43) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
44) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

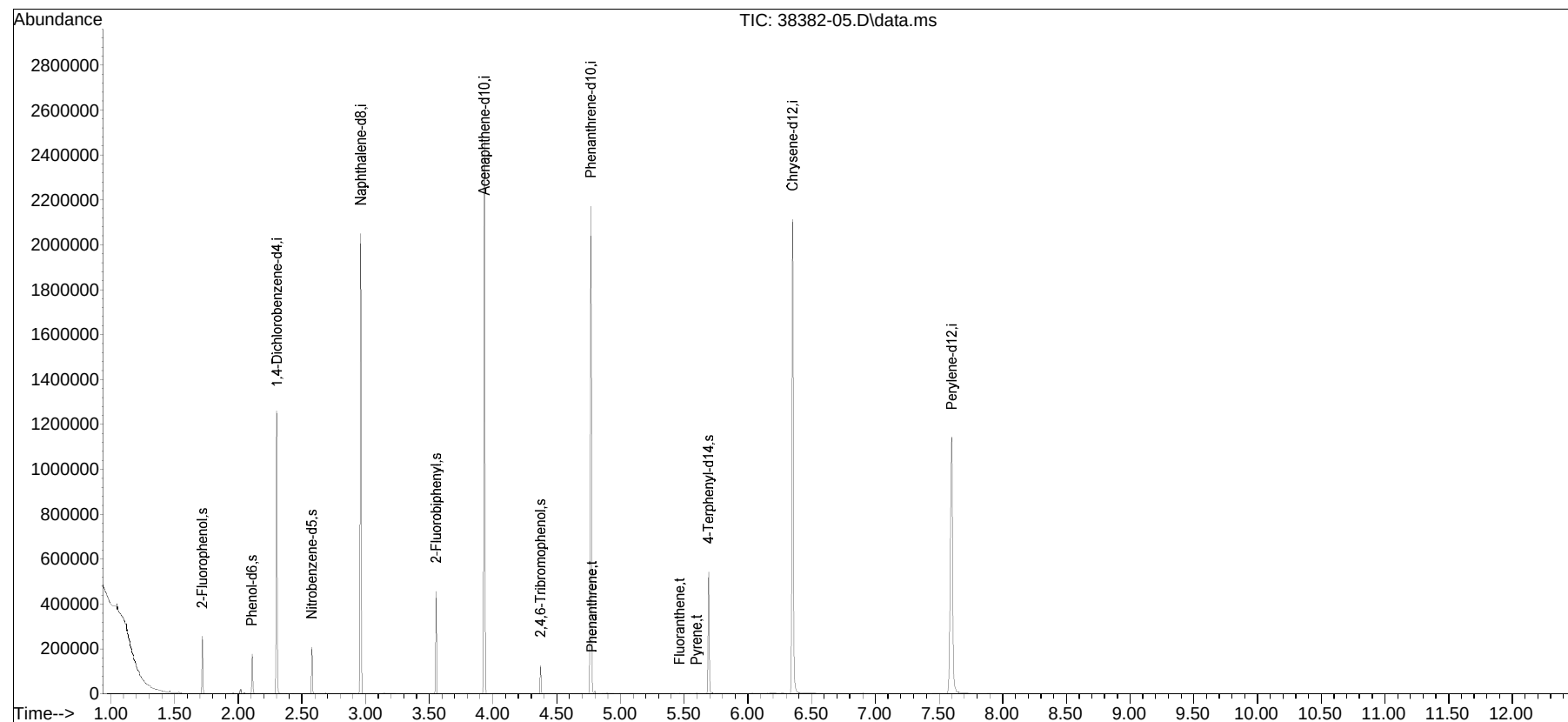
(#) = qualifier out of range (m) = manual integration (+) = signals summed

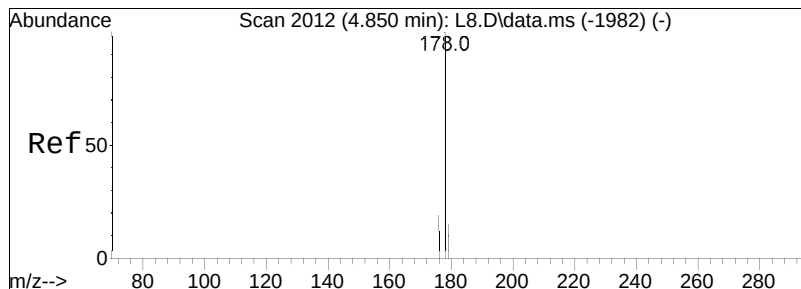
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250627nRVT\
 Data File : 38382-05.D
 Acq On : 27 Jun 2025 06:42 pm
 Operator : sv119:dv
 Sample : L2538382-05,32,,DV
 Misc : WG2084498,WG2081607,ical22426
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 27 19:54:20 2025
 Quant Method : I:\8270sim\sv119\250627nRVT\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jun 27 16:24:54 2025
 Response via : Initial Calibration

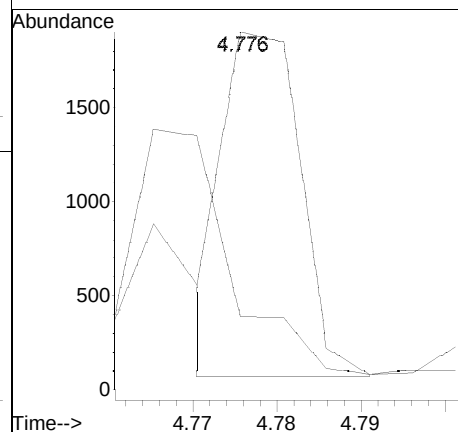
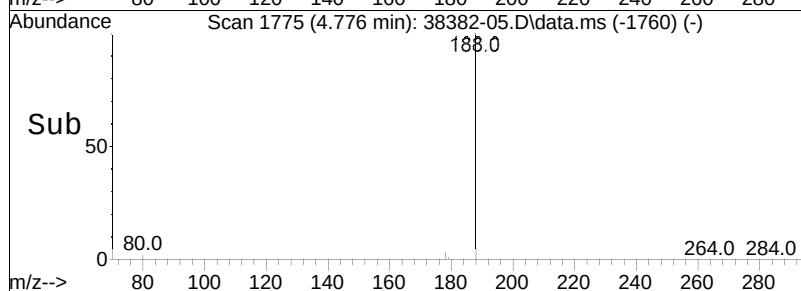
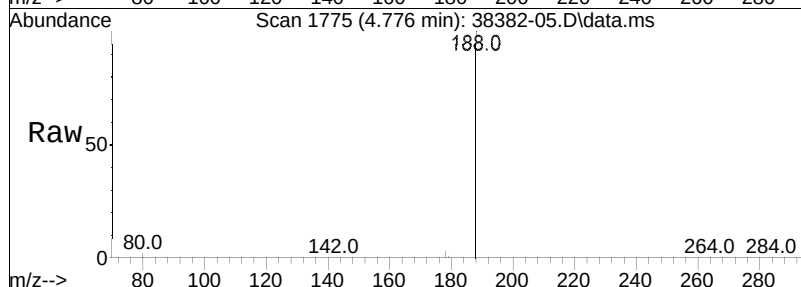
Sub List : DEFAULT - All compounds listedT\ccv0627n.D•

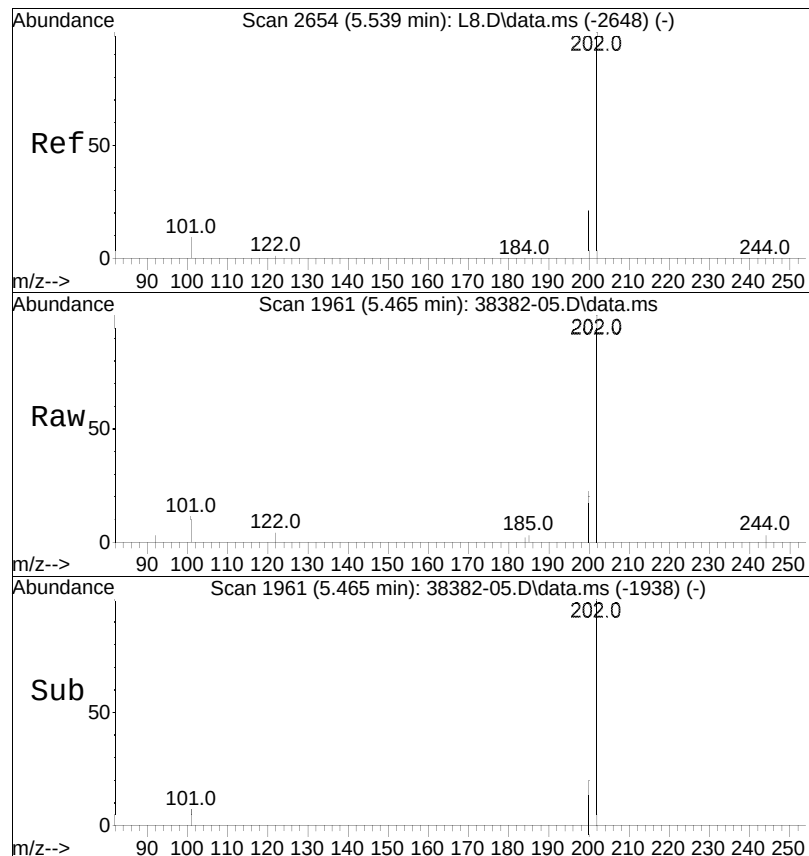




#27
 Phenanthrene
 Concen: 3.21 ng/ml M6
 RT: 4.776 min Scan# 1775
 Delta R.T. -0.005 min
 Lab File: 38382-05.D
 Acq: 27 Jun 2025 06:42 pm

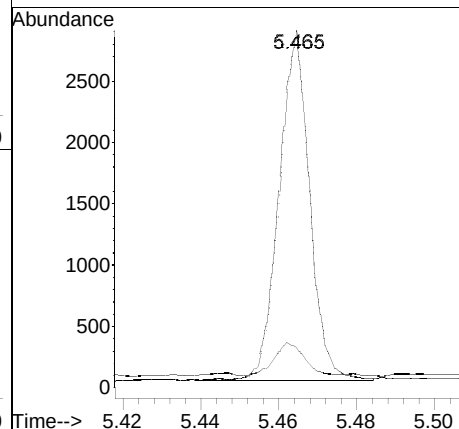
Tgt Ion:178 Resp: 1157
 Ion Ratio Lower Upper
 178 100
 179 9.9 12.4 18.6#

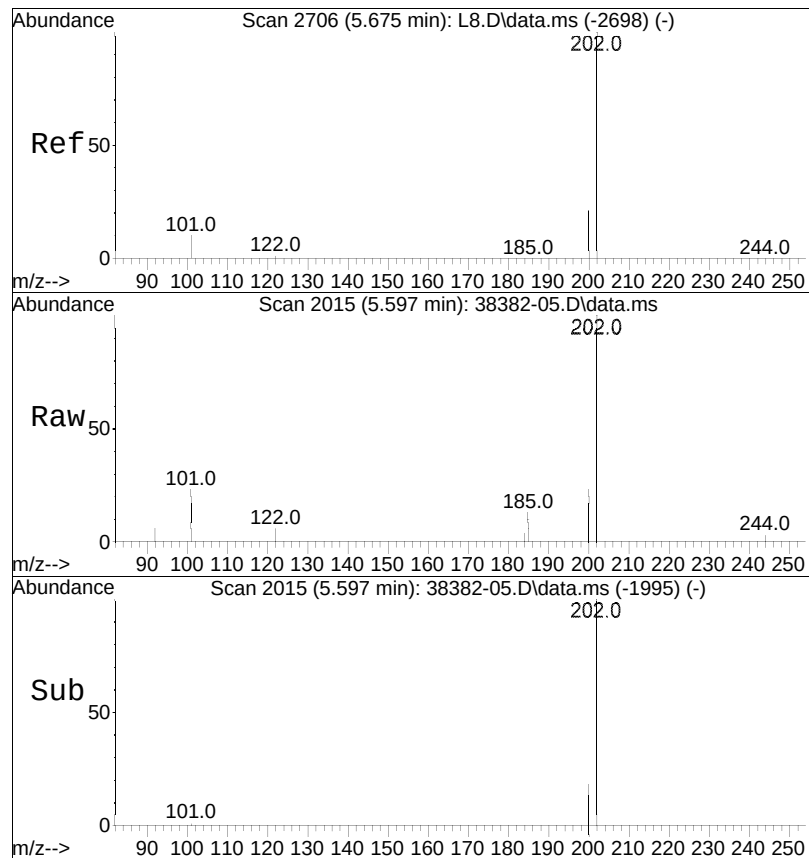




#29
 Fluoranthene
 Concen: 3.22 ng/ml
 RT: 5.465 min Scan# 1961
 Delta R.T. -0.024 min
 Lab File: 38382-05.D
 Acq: 27 Jun 2025 06:42 pm

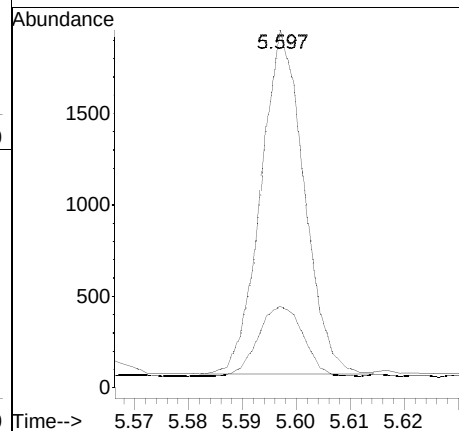
Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.8	7.5	11.3





#30
 Pyrene
 Concen: 2.08 ng/ml
 RT: 5.597 min Scan# 2015
 Delta R.T. -0.031 min
 Lab File: 38382-05.D
 Acq: 27 Jun 2025 06:42 pm

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.0	25.4

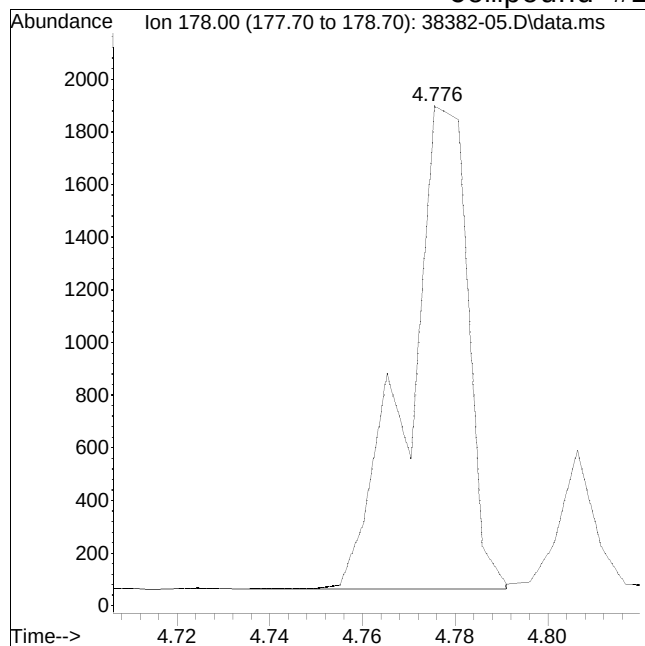


Manual Integration Report

Data Path : I:\8270SIM\sv119\250627nRV
Data File : 38382-05.D
Date Inj'd : 6/27/2025 6:42 pm
Sample : L2538382-05,32,,DV

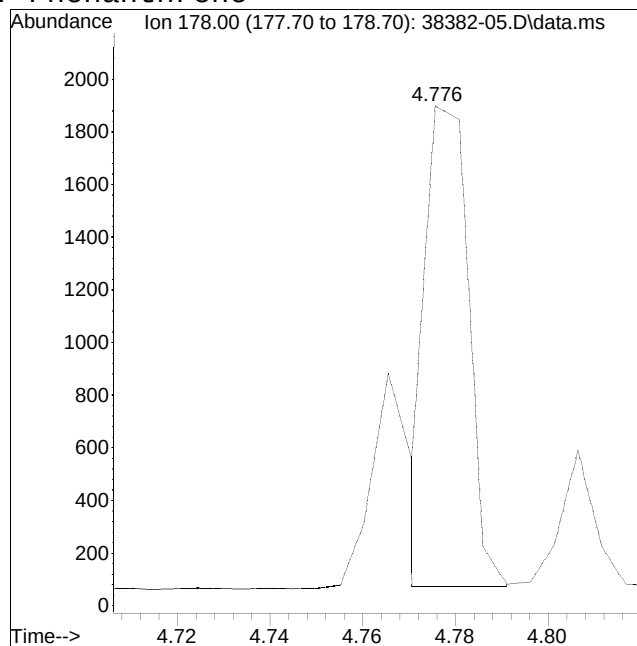
Operator : sv119:dv
Instrument : SV119
Quant Date : 6/27/2025 6:56 pm

Compound #27: Phenanthrene



Original Peak Response = 1662

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 1157 M6

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250627nRVT\
 Data File : 38382-06.D
 Acq On : 27 Jun 2025 06:59 pm
 Operator : sv119:dv
 Sample : L2538382-06,32,,DV
 Misc : WG2084498,WG2081607,ical22426
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 27 19:55:56 2025
 Quant Method : I:\8270sim\sv119\250627nRVT\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jun 27 16:24:54 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\250627nRVT\ccv0627n.D
 Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.302	152	263996	4000.000	ng/ml	0.02
Standard Area 1 = 237452			Recovery	=	111.18%	
9) Naphthalene-d8	2.963	136	1000613	4000.000	ng/ml	0.02
Standard Area 1 = 908349			Recovery	=	110.16%	
18) Acenaphthene-d10	3.932	164	585147	4000.000	ng/ml	0.00
Standard Area 1 = 521676			Recovery	=	112.17%	
23) Phenanthrene-d10	4.769	188	1223780	4000.000	ng/ml	0.00
Standard Area 1 = 1047157			Recovery	=	116.87%	
33) Chrysene-d12	6.349	240	1091466	4000.000	ng/ml	-0.06
Standard Area 1 = 1073641			Recovery	=	101.66%	
38) Perylene-d12	7.594	264	1153243	4000.000	ng/ml	-0.07
Standard Area 1 = 1075366			Recovery	=	107.24%	
System Monitoring Compounds						
3) 2-Fluorophenol	1.720	112	77824	1020.152	ng/ml	0.03
Spiked Amount 2000.000	Range 15 - 110		Recovery	=	51.01%	
4) Phenol-d6	2.112	99	71502	754.580	ng/ml	0.02
Spiked Amount 2000.000	Range 15 - 110		Recovery	=	37.73%	
8) Nitrobenzene-d5	2.579	82	59093	681.029	ng/ml	0.02
Spiked Amount 1000.000	Range 30 - 130		Recovery	=	68.10%	
14) 2-Fluorobiphenyl	3.555	172	166359	741.941	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	=	74.19%	
22) 2,4,6-Tribromophenol	4.374	330	40159	1195.343	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	=	59.77%	
32) 4-Terphenyl-d14	5.689	244	264117	780.661	ng/ml	-0.04
Spiked Amount 1000.000	Range 30 - 130		Recovery	=	78.07%	
Target Compounds						
						Qvalue
5) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
7) Hexachloroethane	0.000		0	N.D.		
10) Naphthalene	0.000		0	N.D.	d	
11) Hexachlorobutadiene	0.000		0	N.D.		
12) 2-Methylnaphthalene	0.000		0	N.D.	d	
15) 2-Chloronaphthalene	0.000		0	N.D.	d	
17) Acenaphthylene	0.000		0	N.D.	d	
19) Acenaphthene	0.000		0	N.D.	d	
21) Fluorene	0.000		0	N.D.	d	
25) Hexachlorobenzene	0.000		0	N.D.	d	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250627nRVT\
 Data File : 38382-06.D
 Acq On : 27 Jun 2025 06:59 pm
 Operator : sv119:dv
 Sample : L2538382-06,32,,DV
 Misc : WG2084498,WG2081607,ical22426
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 27 19:55:56 2025
 Quant Method : I:\8270sim\sv119\250627nRVT\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jun 27 16:24:54 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\250627nRVT\ccv0627n.D
 Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Pentachlorophenol	0.000		0	N.D.		
27) Phenanthrene	0.000		0	N.D.	d	
28) Anthracene	0.000		0	N.D.	d	
29) Fluoranthene	0.000		0	N.D.	d	
30) Pyrene	0.000		0	N.D.	d	
34) Benzo[a]anthracene	0.000		0	N.D.	d	
36) Chrysene	0.000		0	N.D.	d	
39) Benzo[b]fluoranthene	0.000		0	N.D.	d	
40) Benzo[k]fluoranthene	0.000		0	N.D.	d	
41) Benzo[a]pyrene	0.000		0	N.D.	d	
42) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
43) Dibenzo[a,h]anthracene	0.000		0	N.D.	d	
44) Benzo[g,h,i]perylene	0.000		0	N.D.	d	

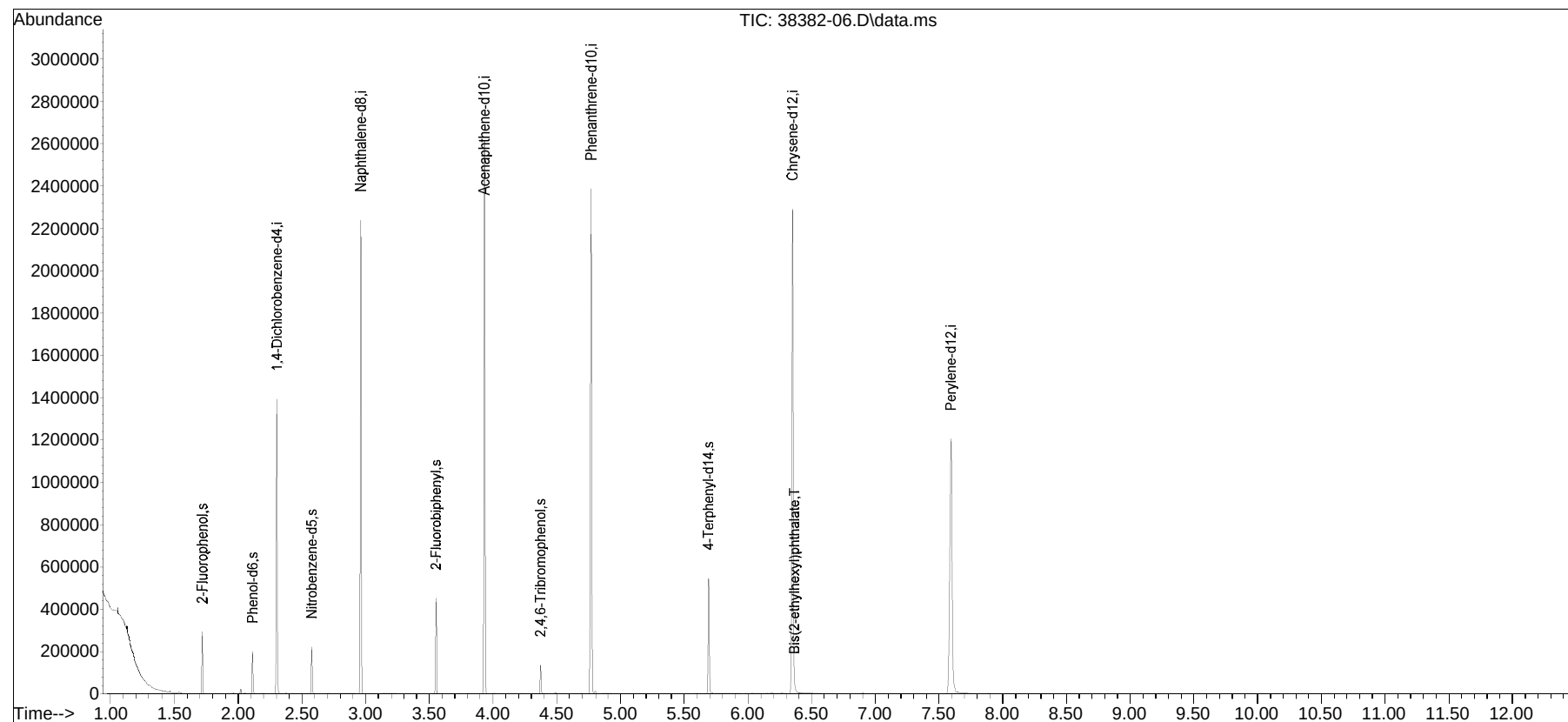
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250627nRVT\
 Data File : 38382-06.D
 Acq On : 27 Jun 2025 06:59 pm
 Operator : sv119:dv
 Sample : L2538382-06,32,,DV
 Misc : WG2084498,WG2081607,ical22426
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 27 19:55:56 2025
 Quant Method : I:\8270sim\sv119\250627nRVT\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jun 27 16:24:54 2025
 Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedT\ccv0627n.D•



Manual Integration Report

Data Path	: I:\8270SIM\sv119\250627nRV01	Method	: SIM-RVT_250625_sv119.M
Data File	: 38382-06.D	Operator	: sv119:dv
Date Inj'd	: 6/27/2025 6:59 pm	Instrument	: SV119
Sample	: L2538382-06,32,,DV	Quant Date	: 6/27/2025 7:13 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250627nRVT\
 Data File : 38382-07.D
 Acq On : 27 Jun 2025 07:16 pm
 Operator : sv119:dv
 Sample : L2538382-07,32,,DV
 Misc : WG2084498,WG2081607,ical22426
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 27 20:03:10 2025
 Quant Method : I:\8270sim\sv119\250627nRVT\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jun 27 16:24:54 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\250627nRVT\ccv0627n.D
 Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.302	152	238917	4000.000	ng/ml	0.02
Standard Area 1 = 237452			Recovery	=	100.62%	
9) Naphthalene-d8	2.962	136	934395	4000.000	ng/ml	0.01
Standard Area 1 = 908349			Recovery	=	102.87%	
18) Acenaphthene-d10	3.933	164	562264	4000.000	ng/ml	0.00
Standard Area 1 = 521676			Recovery	=	107.78%	
23) Phenanthrene-d10	4.770	188	1187239	4000.000	ng/ml	0.00
Standard Area 1 = 1047157			Recovery	=	113.38%	
33) Chrysene-d12	6.347	240	832711	4000.000	ng/ml	-0.07
Standard Area 1 = 1073641			Recovery	=	77.56%	
38) Perylene-d12	7.592	264	1025389	4000.000	ng/ml	-0.08
Standard Area 1 = 1075366			Recovery	=	95.35%	
System Monitoring Compounds						
3) 2-Fluorophenol	1.721	112	68684	994.849	ng/ml	0.03
Spiked Amount 2000.000	Range	15 - 110	Recovery	=	49.74%	
4) Phenol-d6	2.111	99	64463	751.706	ng/ml	0.02
Spiked Amount 2000.000	Range	15 - 110	Recovery	=	37.59%	
8) Nitrobenzene-d5	2.578	82	56423	718.515	ng/ml	0.02
Spiked Amount 1000.000	Range	30 - 130	Recovery	=	71.85%	
14) 2-Fluorobiphenyl	3.554	172	159049	759.608	ng/ml	0.00
Spiked Amount 1000.000	Range	30 - 130	Recovery	=	75.96%	
22) 2,4,6-Tribromophenol	4.373	330	37722	1168.501	ng/ml	0.00
Spiked Amount 2000.000	Range	15 - 110	Recovery	=	58.43%	
32) 4-Terphenyl-d14	5.690	244	256439	781.296	ng/ml	-0.04
Spiked Amount 1000.000	Range	30 - 130	Recovery	=	78.13%	
Target Compounds						
5) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
7) Hexachloroethane	0.000		0	N.D.		
10) Naphthalene	2.973	128	773	3.046	ng/ml	97
11) Hexachlorobutadiene	0.000		0	N.D.		
12) 2-Methylnaphthalene	0.000		0	N.D.	d	
15) 2-Chloronaphthalene	0.000		0	N.D.	d	
17) Acenaphthylene	0.000		0	N.D.	d	
19) Acenaphthene	0.000		0	N.D.	d	
21) Fluorene	0.000		0	N.D.	d	
25) Hexachlorobenzene	0.000		0	N.D.	d	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250627nRVT\
 Data File : 38382-07.D
 Acq On : 27 Jun 2025 07:16 pm
 Operator : sv119:dv
 Sample : L2538382-07,32,,DV
 Misc : WG2084498,WG2081607,ical22426
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 27 20:03:10 2025
 Quant Method : I:\8270sim\sv119\250627nRVT\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jun 27 16:24:54 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\250627nRVT\ccv0627n.D
 Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Pentachlorophenol	0.000		0	N.D.	d	
27) Phenanthrene	0.000		0	N.D.	d	
28) Anthracene	0.000		0	N.D.	d	
29) Fluoranthene	0.000		0	N.D.	d	
30) Pyrene	0.000		0	N.D.	d	
34) Benzo[a]anthracene	0.000		0	N.D.	d	
36) Chrysene	0.000		0	N.D.	d	
39) Benzo[b]fluoranthene	0.000		0	N.D.	d	
40) Benzo[k]fluoranthene	0.000		0	N.D.	d	
41) Benzo[a]pyrene	0.000		0	N.D.	d	
42) Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d	
43) Dibenzo[a,h]anthracene	0.000		0	N.D.		
44) Benzo[g,h,i]perylene	0.000		0	N.D.		

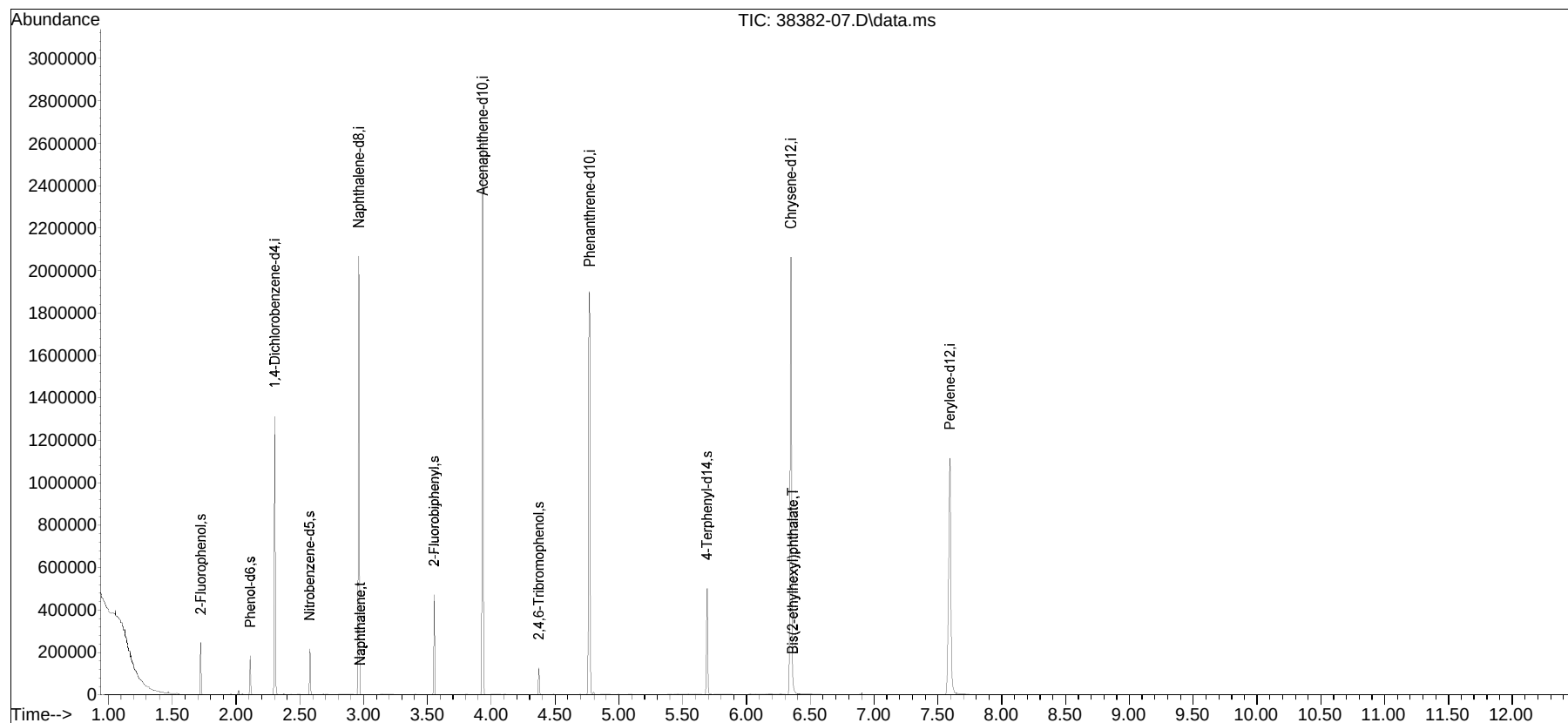
(#) = qualifier out of range (m) = manual integration (+) = signals summed

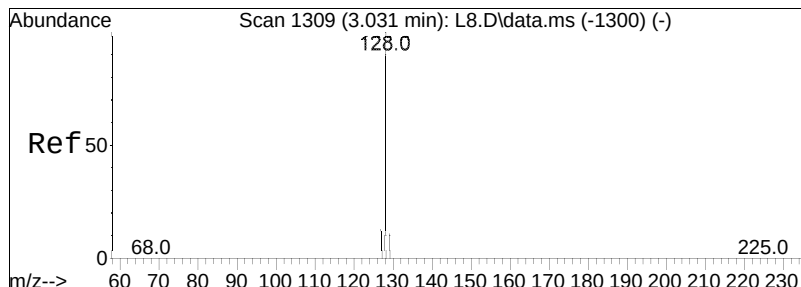
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250627nRVT\
 Data File : 38382-07.D
 Acq On : 27 Jun 2025 07:16 pm
 Operator : sv119:dv
 Sample : L2538382-07,32,,DV
 Misc : WG2084498,WG2081607,ical22426
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 27 20:03:10 2025
 Quant Method : I:\8270sim\sv119\250627nRVT\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jun 27 16:24:54 2025
 Response via : Initial Calibration

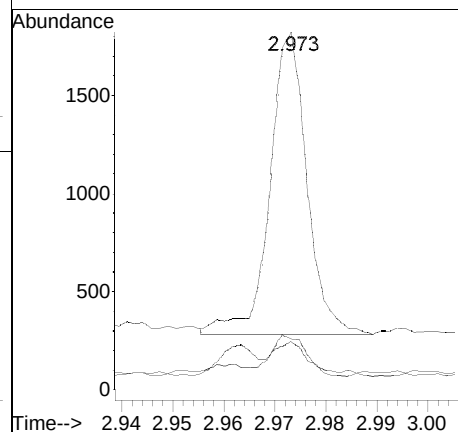
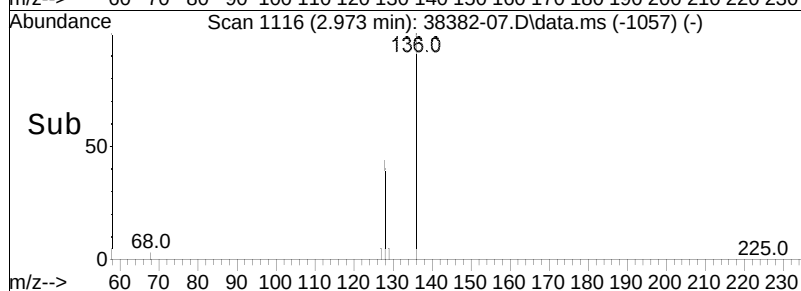
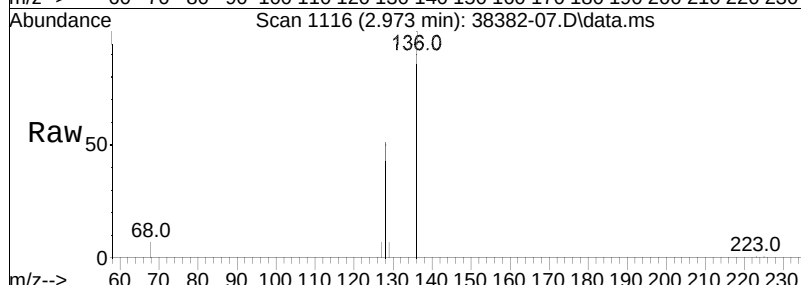
Sub List : DEFAULT - All compounds listedT\ccv0627n.D•





#10
Naphthalene
Concen: 3.05 ng/ml
RT: 2.973 min Scan# 1116
Delta R.T. 0.014 min
Lab File: 38382-07.D
Acq: 27 Jun 2025 07:16 pm

Tgt Ion	Ratio	Resp	Lower	Upper
128	100			
129	10.9	8.8	13.2	
127	11.3	10.6	15.8	



Manual Integration Report

Data Path	: I:\8270SIM\sv119\250627nRV01	Method	: SIM-RVT_250625_sv119.M
Data File	: 38382-07.D	Operator	: sv119:dv
Date Inj'd	: 6/27/2025 7:16 pm	Instrument	: SV119
Sample	: L2538382-07,32,,DV	Quant Date	: 6/27/2025 7:30 pm

There are no manual integrations or false positives in this file.

Semivolatiles Standards Data

Initial Calibration

Initial Calibration Summary

Form 6

Semivolatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : SV119
 Calibration dates : 06/25/25 20:07 06/25/25 22:41

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Ical Ref : ICAL22426

Calibration Files

L1 =L1.D L2 =L2.D L3 =L3.D L4 =L4.D L5 =L5.D L6 =L6.D L7 =L7.D L8 =L8.D L9 =L9.D
 L10 =L10.D

Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg
1) i 1,4-Dichlorobenzene-d4	-----ISTD-----										
2) T N-Nitrosodimethylamine					0.658	0.685	0.708	0.679	0.692	0.671	0.682
3) s 2-Fluorophenol	1.367	1.221	1.150	1.136	1.150	1.098	1.137	1.101	1.137	1.060	1.156
4) s Phenol-d6		1.529	1.448	1.444	1.455	1.365	1.431	1.423	1.436	1.391	1.436
5) T Bis(2-chloroethyl)ether	1.471	1.375	1.335	1.299	1.202	1.141	1.184	1.177	1.167	1.122	1.247
6) T n-nitrosodi-n-propylamine			1.058	0.901	0.912	0.841	0.908	0.926	0.963	0.925	0.929
7) t Hexachloroethane	0.477	0.510	0.550	0.538	0.543	0.492	0.515	0.509	0.507	0.496	0.514
8) s Nitrobenzene-d5	1.471	1.423	1.456	1.290	1.281	1.160	1.254	1.285	1.295	1.233	1.315
9) i Naphthalene-d8	-----ISTD-----										
10) t Naphthalene	1.216	1.251	1.138	1.099	1.057	1.036	1.048	1.031	1.018	0.968	1.086
11) t Hexachlorobutadiene	0.226	0.212	0.202	0.209	0.205	0.198	0.203	0.198	0.195	0.190	0.204
12) t 2-Methylnaphthalene	0.853	0.768	0.699	0.685	0.680	0.631	0.665	0.653	0.670	0.615	0.692
13) t 1-Methylnaphthalene	0.748	0.720	0.726	0.710	0.700	0.668	0.697	0.690	0.706	0.634	0.700
14) s 2-Fluorobiphenyl	0.936	0.935	0.905	0.918	0.912	0.868	0.899	0.887	0.903	0.801	0.896
15) t 2-Chloronaphthalene	0.715	0.777	0.785	0.771	0.767	0.727	0.762	0.753	0.780	0.697	0.753
16) t 2,6-Dinitrotoluene					0.144	0.130	0.153	0.170	0.198	0.180	0.162
17) t Acenaphthylene	1.216	1.261	1.237	1.272	1.292	1.195	1.297	1.299	1.379	1.207	1.266
18) i Acenaphthene-d10	-----ISTD-----										
19) t Acenaphthene	1.431	1.382	1.342	1.356	1.341	1.304	1.327	1.289	1.262	1.209	1.324
20) t 2,4-Dinitrotoluene					0.316	0.299	0.353	0.381	0.424	0.406	0.363
21) t Fluorene	1.809	1.678	1.612	1.628	1.612	1.543	1.602	1.572	1.492	1.413	1.596
22) s 2,4,6-Tribromophenol		0.237	0.231	0.225	0.223	0.210	0.231	0.236	0.241	0.233	0.230
23) i Phenanthrene-d10	-----ISTD-----										
24) T 4,6-Dinitro-o-cresol					0.080	0.074	0.088	0.093	0.104	0.106	*L
75)											
25) t Hexachlorobenzene	0.323	0.291	0.286	0.294	0.290	0.263	0.278	0.267	0.266	0.262	0.282
26) t Pentachlorophenol				0.149	0.115	0.091	0.094	0.110	0.141	0.154	*Q
73)											
27) t Phenanthrene		1.396	1.261	1.241	1.214	1.194	1.195	1.156	1.151	1.082	1.210
28) t Anthracene		1.246	1.244	1.271	1.249	1.155	1.245	1.222	1.218	1.145	1.222
29) t Fluoranthene		1.807	1.624	1.610	1.594	1.474	1.632	1.601	1.571	1.431	1.594
30) t Pyrene		1.917	1.715	1.733	1.699	1.551	1.720	1.685	1.628	1.446	1.677
31) T Benzdine						0.022	0.427	0.785	0.993	0.954	*L
01)											
32) s 4-Terphenyl-d14		1.225	1.145	1.167	1.155	1.045	1.140	1.117	1.036	0.922	1.106
33) i Chrysene-d12	-----ISTD-----										



Initial Calibration Summary

Form 6

Semivolatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : SV119
 Calibration dates : 06/25/25 20:07 06/25/25 22:41

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Ical Ref : ICAL22426

Calibration Files

L1 =L1.D L2 =L2.D L3 =L3.D L4 =L4.D L5 =L5.D L6 =L6.D L7 =L7.D L8 =L8.D L9 =L9.D
 L10 =L10.D

Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg
34) t Benzo[a]anthracene 96)	1.224	0.683	0.345	0.237	0.156	0.136	0.138	0.137	0.140	0.133	*L 0.99
35) t 3,3'-Dichlorobenzidine					0.422	0.435	0.548	0.586	0.612	0.601	0.534 15.88
36) t Chrysene	1.266	1.325	1.261	1.325	1.318	1.301	1.361	1.316	1.313	1.252	1.304 2.62
37) T Bis(2-ethylhexyl)phtha...					0.686	0.621	0.602	0.689	0.742	0.828	0.846 0.716 13.23
38) i Perylene-d12	-----ISTD-----										
39) t Benzo[b]fluoranthene			0.916	1.011	1.028	0.996	1.169	1.209	1.268	1.245	1.105 12.01
40) t Benzo[k]fluoranthene			1.164	1.204	1.255	1.310	1.358	1.336	1.344	1.255	1.278 5.50
41) t Benzo[a]pyrene			0.859	0.897	0.961	0.966	1.143	1.168	1.222	1.184	1.050 13.71
42) t Indeno[1,2,3-cd]pyrene 87)			0.640	0.640	0.684	0.705	0.835	0.940	1.057	1.112	*Q 0.99
43) t Dibenzo[a,h]anthracene 87)			0.546	0.576	0.660	0.659	0.903	0.965	1.040	1.059	*Q 0.99
44) t Benzo[g,h,i]perylene			0.781	0.811	0.884	0.902	1.066	1.096	1.141	1.121	0.975 15.01



Response Factor Report SV119

Method Path : I:\8270SIM\sv119\250625RVTical\
 Method File : SIM-RVT_250625_sv119.M
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Fri Jun 27 08:30:34 2025
 Response Via : Initial Calibration

Calibration Files

L1 =L1.D L2 =L2.D L3 =L3.D L4 =L4.D L5 =L5.D L6 =L6.D L7 =L7.D L8 =L8.D L9 =L9.D
 L10 =L10.D

Compound		L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg	
%RSD													

1) i	1,4-Dichlorobenzene-d4	-----ISTD-----											
2) T	N-Nitrosodimet...					0.658	0.685	0.708	0.679	0.692	0.671	0.682	2.53
3) s	2-Fluorophenol	1.367	1.221	1.150	1.136	1.150	1.098	1.137	1.101	1.137	1.060	1.156	7.39
4) s	Phenol-d6	1.529	1.448	1.444	1.455	1.365	1.431	1.423	1.436	1.391	1.436		3.16
5) T	Bis(2-chloroet...	1.471	1.375	1.335	1.299	1.202	1.141	1.184	1.177	1.167	1.122	1.247	9.29
6) T	n-nitrosodi-n-...			1.058	0.901	0.912	0.841	0.908	0.926	0.963	0.925	0.929	6.66
7) t	Hexachloroethane	0.477	0.510	0.550	0.538	0.543	0.492	0.515	0.509	0.507	0.496	0.514	4.57
8) s	Nitrobenzene-d5	1.471	1.423	1.456	1.290	1.281	1.160	1.254	1.285	1.295	1.233	1.315	7.76
9) i	Naphthalene-d8	-----ISTD-----											
10) t	Naphthalene	1.216	1.251	1.138	1.099	1.057	1.036	1.048	1.031	1.018	0.968	1.086	8.31
11) t	Hexachlorobuta...	0.226	0.212	0.202	0.209	0.205	0.198	0.203	0.198	0.195	0.190	0.204	4.93
12) t	2-Methylnaphth...	0.853	0.768	0.699	0.685	0.680	0.631	0.665	0.653	0.670	0.615	0.692	10.13
13) t	1-Methylnaphth...	0.748	0.720	0.726	0.710	0.700	0.668	0.697	0.690	0.706	0.634	0.700	4.54
14) s	2-Fluorobiphenyl	0.936	0.935	0.905	0.918	0.912	0.868	0.899	0.887	0.903	0.801	0.896	4.37
15) t	2-Chloronaphth...	0.715	0.777	0.785	0.771	0.767	0.727	0.762	0.753	0.780	0.697	0.753	3.98

Response Factor Report SV119

Method Path : I:\8270SIM\sv119\250625RVTical\
Method File : SIM-RVT_250625_sv119.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Fri Jun 27 08:30:34 2025
Response Via : Initial Calibration

Calibration Files

L1 =L1.D L2 =L2.D L3 =L3.D L4 =L4.D L5 =L5.D L6 =L6.D L7 =L7.D L8 =L8.D L9 =L9.D
L10 =L10.D

Compound		L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg		
%RSD														
16) t	2,6-Dinitrotol...					0.144	0.130	0.153	0.170	0.198	0.180	0.162	15.33	
17) t	Acenaphthylene	1.216	1.261	1.237	1.272	1.292	1.195	1.297	1.299	1.379	1.207	1.266	4.35	
18) i	Acenaphthene-d10	-----ISTD-----												
19) t	Acenaphthene	1.431	1.382	1.342	1.356	1.341	1.304	1.327	1.289	1.262	1.209	1.324	4.72	
20) t	2,4-Dinitrotol...					0.316	0.299	0.353	0.381	0.424	0.406	0.363	13.61	
21) t	Fluorene	1.809	1.678	1.612	1.628	1.612	1.543	1.602	1.572	1.492	1.413	1.596	6.66	
22) s	2,4,6-Tribromo...	0.237	0.231	0.225	0.223	0.210	0.231	0.236	0.241	0.233	0.230		3.99	
23) i	Phenanthrene-d10	-----ISTD-----												
24) T	4,6-Dinitro-o-...					0.080	0.074	0.088	0.093	0.104	0.106	*L	0.99	
75														
25) t	Hexachlorobenzene	0.323	0.291	0.286	0.294	0.290	0.263	0.278	0.267	0.266	0.262	0.282	6.74	
26) t	Pentachlorophenol					0.149	0.115	0.091	0.094	0.110	0.141	0.154	*Q	0.99
73														
27) t	Phenanthrene	1.396	1.261	1.241	1.214	1.194	1.195	1.156	1.151	1.082	1.210		7.24	
28) t	Anthracene	1.246	1.244	1.271	1.249	1.155	1.245	1.222	1.218	1.145	1.222		3.56	
29) t	Fluoranthene	1.807	1.624	1.610	1.594	1.474	1.632	1.601	1.571	1.431	1.594		6.64	
30) t	Pyrene	1.917	1.715	1.733	1.699	1.551	1.720	1.685	1.628	1.446	1.677		7.79	

Response Factor Report SV119

Method Path : I:\8270SIM\sv119\250625RVTical\
Method File : SIM-RVT_250625_sv119.M
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Fri Jun 27 08:30:34 2025
Response Via : Initial Calibration

Calibration Files

L1 =L1.D L2 =L2.D L3 =L3.D L4 =L4.D L5 =L5.D L6 =L6.D L7 =L7.D L8 =L8.D L9 =L9.D
L10 =L10.D

Compound		L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg
%RSD												
31) T	Benzidine					0.022	0.427	0.785	0.993	0.954	*L	0.99
32) s	4-Terphenyl-d14	1.225	1.145	1.167	1.155	1.045	1.140	1.117	1.036	0.922	1.106	8.19
33) i	Chrysene-d12	-----ISTD-----										
34) t	Benzo[a]anthra...	1.224	0.683	0.345	0.237	0.156	0.136	0.138	0.137	0.140	0.133	*L 0.99
35) t	3,3'-Dichlorob...					0.422	0.435	0.548	0.586	0.612	0.601	0.534 15.88
36) t	Chrysene	1.266	1.325	1.261	1.325	1.318	1.301	1.361	1.316	1.313	1.252	1.304 2.62
37) T	Bis(2-ethylhex...			0.686	0.621	0.602	0.689	0.742	0.828	0.846	0.716	13.23
38) i	Perylene-d12	-----ISTD-----										
39) t	Benzo[b]fluora...		0.916	1.011	1.028	0.996	1.169	1.209	1.268	1.245	1.105	12.01
40) t	Benzo[k]fluora...		1.164	1.204	1.255	1.310	1.358	1.336	1.344	1.255	1.278	5.50
41) t	Benzo[a]pyrene		0.859	0.897	0.961	0.966	1.143	1.168	1.222	1.184	1.050	13.71
42) t	Indeno[1,2,3-c...		0.640	0.640	0.684	0.705	0.835	0.940	1.057	1.112	*Q	0.99
43) t	Dibenzo[a,h]an...		0.546	0.576	0.660	0.659	0.903	0.965	1.040	1.059	*Q	0.99
44) t	Benzo[g,h,i]pe...		0.781	0.811	0.884	0.902	1.066	1.096	1.141	1.121	0.975	15.01

Response Factor Report SV119

Method Path : I:\8270SIM\sv119\250625RVTical\
 Method File : SIM-RVT_250625_sv119.M
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Fri Jun 27 08:30:34 2025
 Response Via : Initial Calibration

Calibration Files

L1 =L1.D L2 =L2.D L3 =L3.D L4 =L4.D L5 =L5.D L6 =L6.D L7 =L7.D L8 =L8.D L9 =L9.D
 L10 =L10.D

Compound	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	Avg
%RSD											

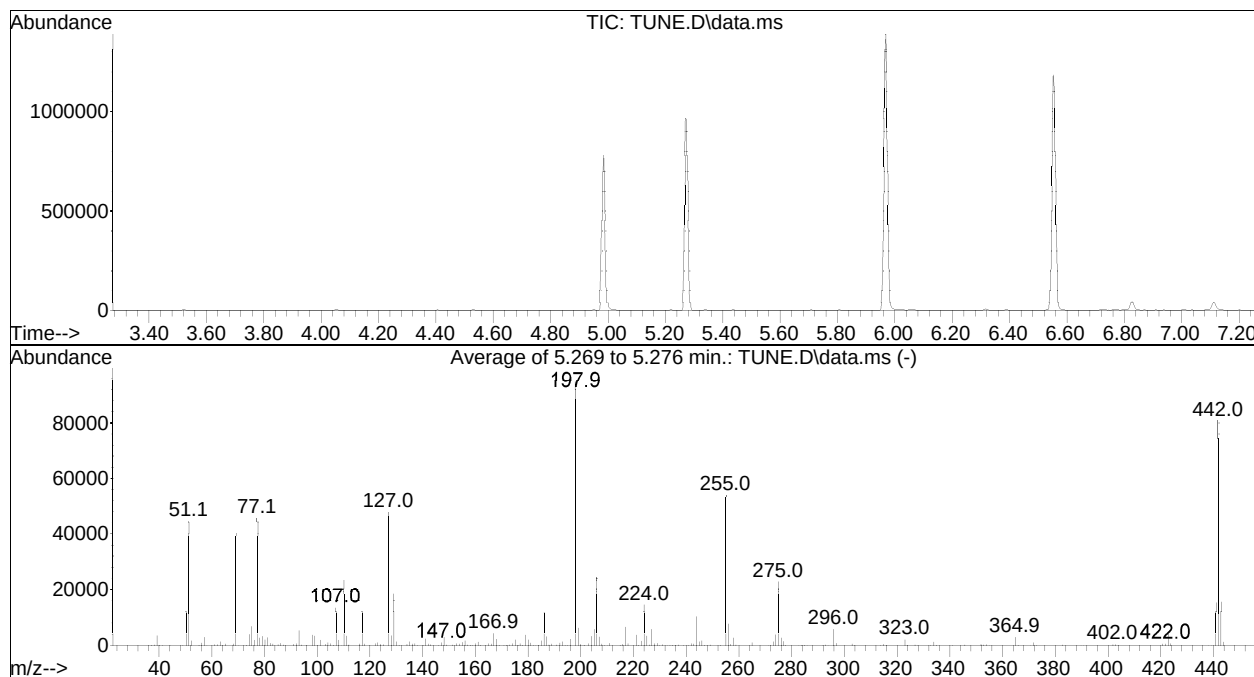
(#) = Out of Range

DFTPP

Data Path : I:\8270SIM\sv119\250625RVTical\
 Data File : TUNE.D
 Acq On : 25 Jun 2025 07:48 pm
 Operator : sv119:ljg
 Sample : TUNE
 Misc : WG2084288,,ical
 ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\sv119\250625RVTical\SIM-RVT_250625_sv119.M
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Fri Jun 27 08:30:34 2025



Spectrum Information: Average of 5.269 to 5.276 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	47.0	44597	PASS
68	69	0.00	2	2.0	800	PASS
69	69	100	100	100.0	40048	PASS
70	69	0.00	2	0.4	156	PASS
127	198	10	80	50.5	47829	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	94797	PASS
199	198	5	9	6.6	6233	PASS
275	198	10	60	24.0	22712	PASS
365	198	1	100	3.3	3103	PASS
441	442	0.01	24	18.8	15170	PASS
442	198	50	100	85.2	80797	PASS
443	442	15	24	19.0	15320	PASS

Data Path : I:\8270SIM\sv119\250625RVTical\

Data File : TUNE.D

Acq On : 25 Jun 2025 07:48 pm

Operator : sv119:ljl

Sample : TUNE

Misc : WG2084288,,ical

ALS Vial : 48 Sample Multiplier: 1

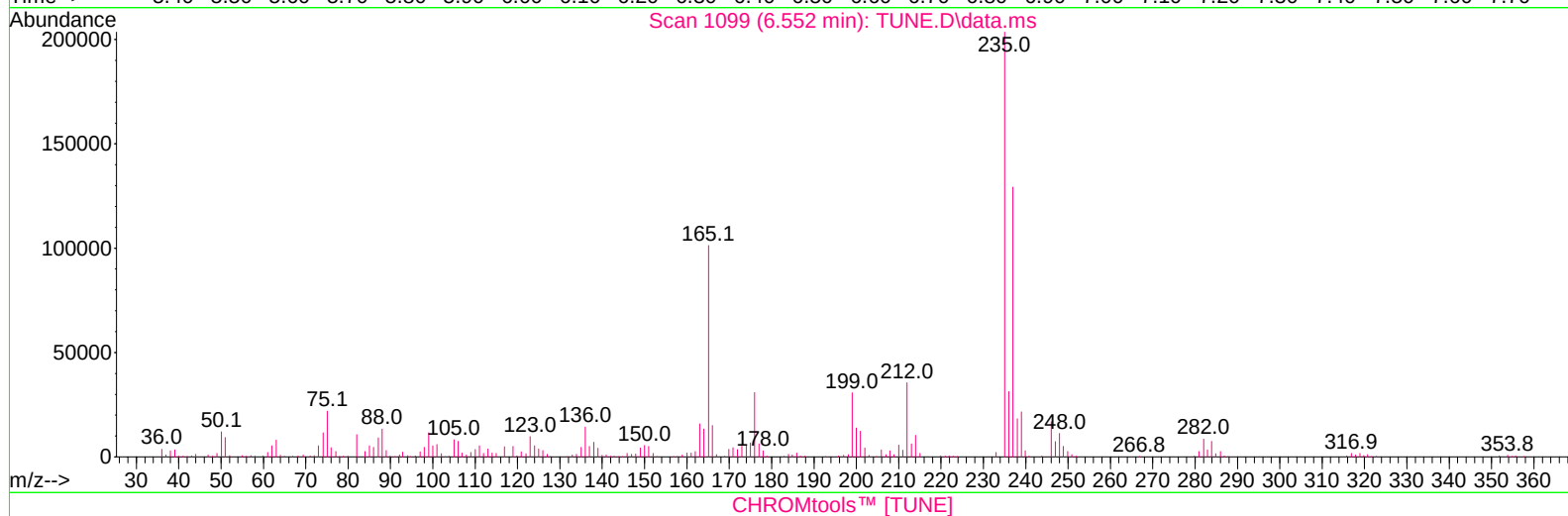
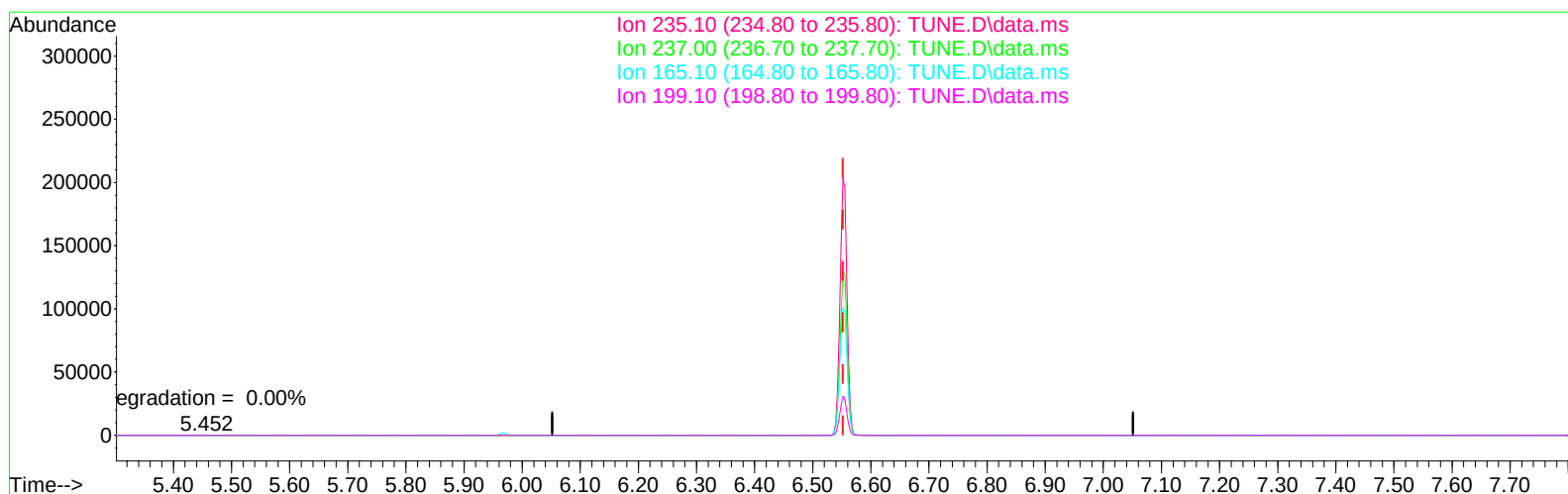
Quant Time: Jun 25 20:03:57 2025

Quant Method : I:\8270SIM\sv119\250625RVTical\dftppsv119.m

Quant Title : Semivolatiles by GC/MS by modified 8270

QLast Update : Wed Jun 25 20:04:49 2025

Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D



CHROMtools™ [TUNE]

(6) ddt (T)

6.552min (-0.000) 28.02

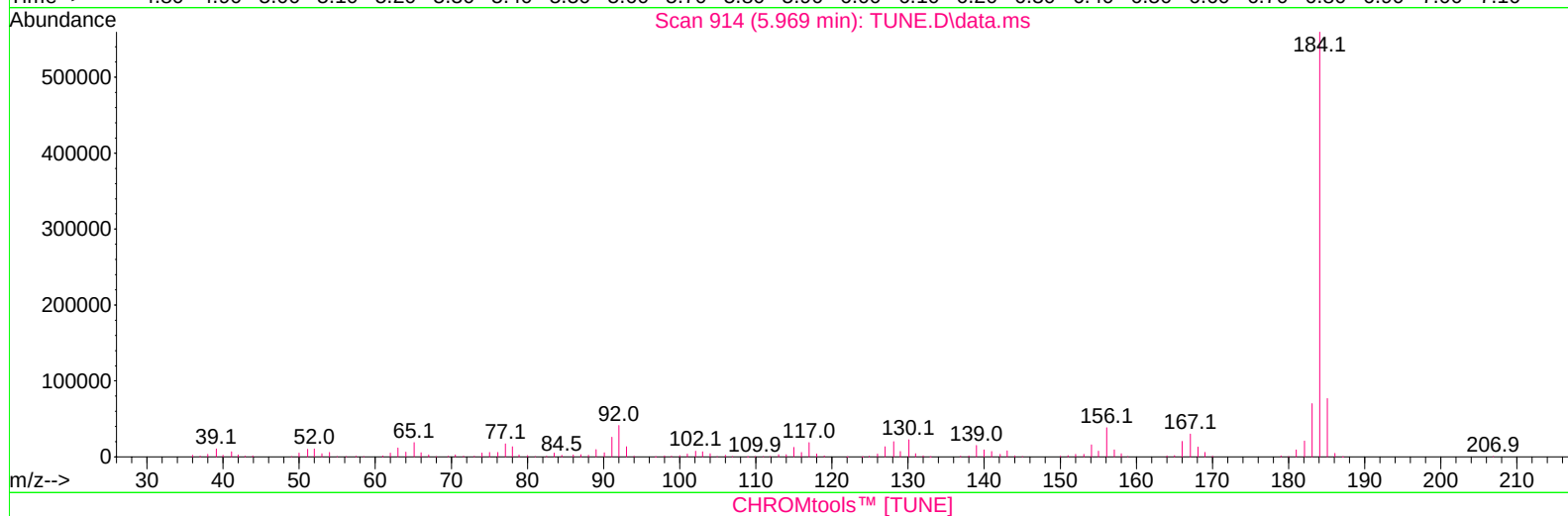
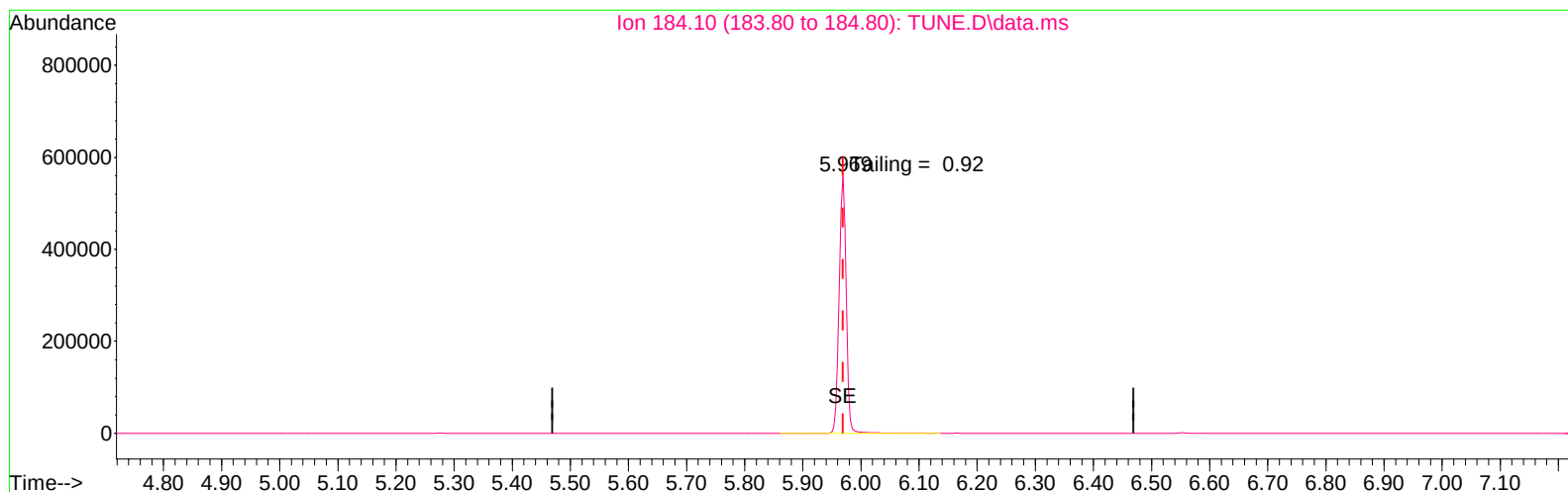
response 170802

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	65.45
165.10	53.30	51.84
199.10	17.10	15.47

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\250625RVTical\
 Data File : TUNE.D
 Acq On : 25 Jun 2025 07:48 pm
 Operator : sv119:ljl
 Sample : TUNE
 Misc : WG2084288,,ical
 ALS Vial : 48 Sample Multiplier: 1

Quant Time: Jun 25 20:03:57 2025
 Quant Method : I:\8270SIM\sv119\250625RVTical\dfppsv119.m
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Wed Jun 25 20:04:49 2025
 Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D



CHROMtools™ [TUNE]

(3) benzidine (T)

5.969min (-0.000) 45.73

response 465484

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250625RVTical\
 Data File : L10.D
 Acq On : 25 Jun 2025 08:07 pm
 Operator : sv119:ljg
 Sample : IL10,32,,5 Lot# 11697
 Misc : WG2084288,,ical
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 26 18:27:34 2025
 Quant Method : I:\8270SIM\sv119\250625RVTical\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 26 18:28:30 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\250625RVTical\L8.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.342	152	159724	4000.000	ng/ml	-0.01
Standard Area 1 = 144221			Recovery	= 110.75%		
9) Naphthalene-d8	3.005	136	632959	4000.000	ng/ml	-0.01
Standard Area 1 = 566700			Recovery	= 111.69%		
18) Acenaphthene-d10	3.987	164	378954	4000.000	ng/ml	0.00
Standard Area 1 = 346174			Recovery	= 109.47%		
23) Phenanthrene-d10	4.837	188	756008	4000.000	ng/ml	0.00
Standard Area 1 = 720898			Recovery	= 104.87%		
33) Chrysene-d12	6.507	240	800659M1	4000.000	ng/ml	0.06
Standard Area 1 = 872550			Recovery	= 91.76%		
38) Perylene-d12	7.819	264	847558	4000.000	ng/ml	0.06
Standard Area 1 = 911236			Recovery	= 93.01%		
System Monitoring Compounds						
3) 2-Fluorophenol	1.740	112	211666	4585.952	ng/ml	-0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 229.30%#		
4) Phenol-d6	2.144	99	277657	4843.096	ng/ml	-0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 242.15%#		
8) Nitrobenzene-d5	2.622	82	246180	4689.313	ng/ml	-0.01
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 468.93%#		
14) 2-Fluorobiphenyl	3.602	172	634086	4470.559	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 447.06%#		
22) 2,4,6-Tribromophenol	4.432	330	110217	5065.666	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 253.28%#		
32) 4-Terphenyl-d14	5.804	244	871495	4169.730	ng/ml	0.04
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 416.97%#		
Target Compounds						
						Qvalue
2) N-Nitrosodimethylamine	1.286	74	133887M7	4880.784	ng/mL	
5) Bis(2-chloroethyl)ether	2.199	93	224040	4497.865	ng/ml	98
6) n-nitrosodi-n-propylamine	2.542	70	184745	4978.319	ng/ml	100
7) Hexachloroethane	2.603	117	99006	4827.785	ng/ml	99
10) Naphthalene	3.016	128	765677	4454.215	ng/ml	100
11) Hexachlorobutadiene	3.088	225	150109	4655.170	ng/ml	100
12) 2-Methylnaphthalene	3.396	142	486431	4442.580	ng/ml	98
13) 1-Methylnaphthalene	3.451	142	501468	4528.471	ng/ml	99
15) 2-Chloronaphthalene	3.669	162	551589	4626.470	ng/ml	97
16) 2,6-Dinitrotoluene	3.861	165	142052	5525.397	ng/ml	98
17) Acenaphthylene	3.903	152	955202	4769.438	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250625RVTical\
 Data File : L10.D
 Acq On : 25 Jun 2025 08:07 pm
 Operator : sv119:ljg
 Sample : IL10,32,,5 Lot# 11697
 Misc : WG2084288,,ical
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 26 18:27:34 2025
 Quant Method : I:\8270SIM\sv119\250625RVTical\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 26 18:28:30 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\250625RVTical\L8.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19)	Acenaphthene	4.005	153	572890	4565.771	ng/ml	97
20)	2,4-Dinitrotoluene	4.091	165	192149	5585.618	ng/ml	98
21)	Fluorene	4.298	166	669244	4425.895	ng/ml	98
24)	4,6-Dinitro-o-cresol	4.325	198	100272	5121.919	ng/ml	94
25)	Hexachlorobenzene	4.617	284	247919	4651.632	ng/ml	96
26)	Pentachlorophenol	4.728	266	145528	4946.789	ng/ml	99
27)	Phenanthrene	4.851	178	1022129	4469.822	ng/ml	100
28)	Anthracene	4.881	178	1082235	4686.562	ng/ml	99
29)	Fluoranthene	5.563	202	1352301M3	4489.694	ng/ml	
30)	Pyrene	5.704	202	1366100	4309.889	ng/ml	100
31)	Benzydine	5.644	184	901111	5017.205	ng/mL	99
34)	Benzo[a]anthracene	6.498	228	1335155	4929.598	ng/ml	100
35)	3,3'-Dichlorobenzidine	6.482	252	601585	5629.277	ng/ml	100
36)	Chrysene	6.527	228	1253094	4846.683	ng/ml	99
37)	Bis(2-ethylhexyl)phtha...	6.527	149	846532	5907.159	ng/ml	99
39)	Benzo[b]fluoranthene	7.419	252	1318505	5629.790	ng/ml	99
40)	Benzo[k]fluoranthene	7.450	252	1329998	4910.168	ng/ml	98
41)	Benzo[a]pyrene	7.758	252	1254897	5639.779	ng/ml	99
42)	Indeno[1,2,3-cd]pyrene	9.137	276	1177971	4959.983	ng/ml	98
43)	Dibenzo[a,h]anthracene	9.175	278	1122130M6	4963.335	ng/ml	
44)	Benzo[g,h,i]perylene	9.506	276	1187966	5748.188	ng/ml	99

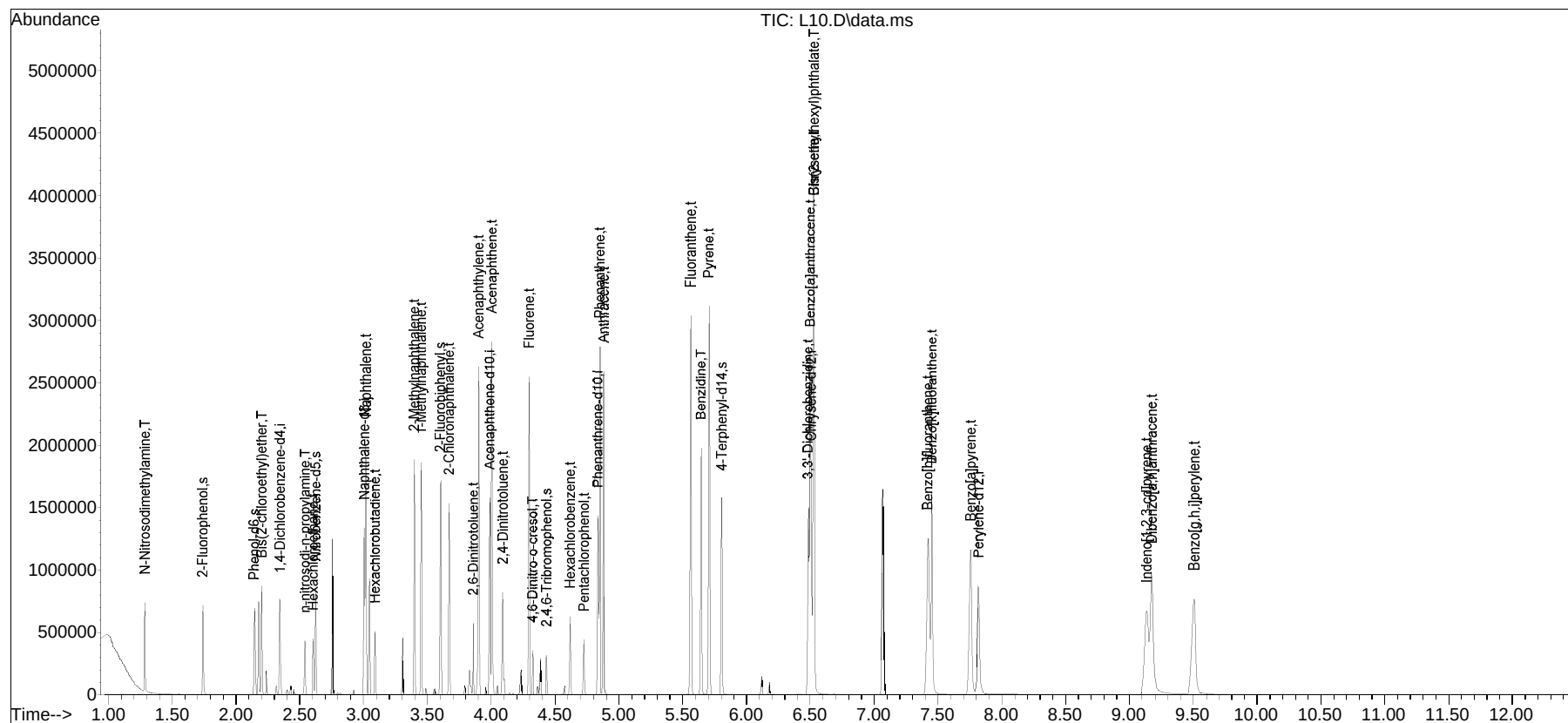
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250625RVTical\
Data File : L10.D
Acq On : 25 Jun 2025 08:07 pm
Operator : sv119:ljg
Sample : IL10,32,,5 Lot# 11697
Misc : WG2084288,,ical
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 26 18:27:34 2025
Quant Method : I:\8270SIM\sv119\250625RVTical\SIM-RVT_250625_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 26 18:28:30 2025
Response via : Initial Calibration

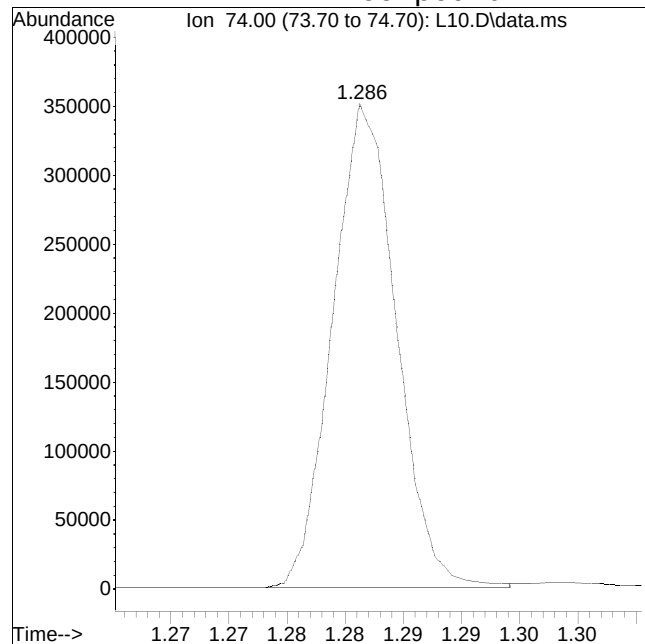
Sub List : Default - All compounds listedical\L8.D•



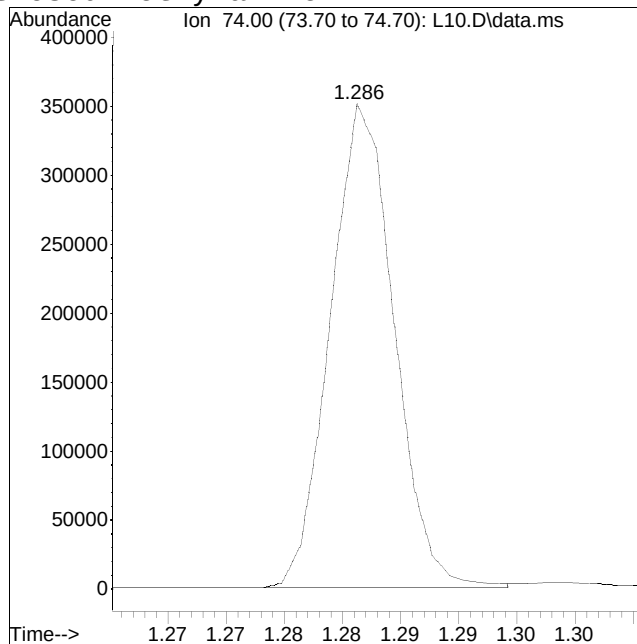
Manual Integration Report

Data Path : I:\8270SIM\sv119\250625RVT\data.ms
Data File : L10.D
Date Inj'd : 6/25/2025 8:07 pm
Sample : IL10,32,,5 Lot# 11697
Method : SIM-RVT_250625_sv119.M
Operator : sv119:ljl
Instrument : SV119
Quant Date : 6/26/2025 6:28 pm

Compound #2: N-Nitrosodimethylamine



Original Peak Response = 133887



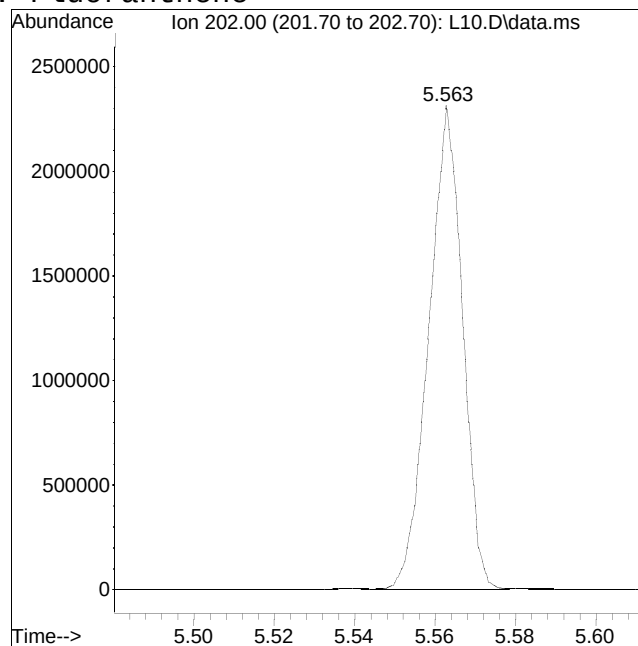
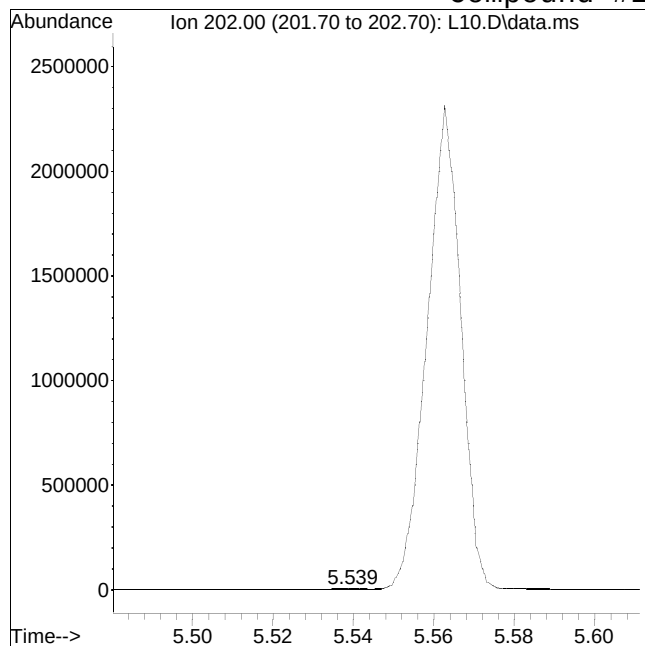
Manual Peak Response = 133887 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

Data Path : I:\8270SIM\sv119\250625RVT01.M
Data File : L10.D
Date Inj'd : 6/25/2025 8:07 pm
Sample : IL10,32,,5 Lot# 11697
Method : SIM-RVT_250625_sv119.M
Operator : sv119:ljj
Instrument : SV119
Quant Date : 6/26/2025 6:28 pm

Compound #29: Fluoranthene



Original Peak Response = 3196

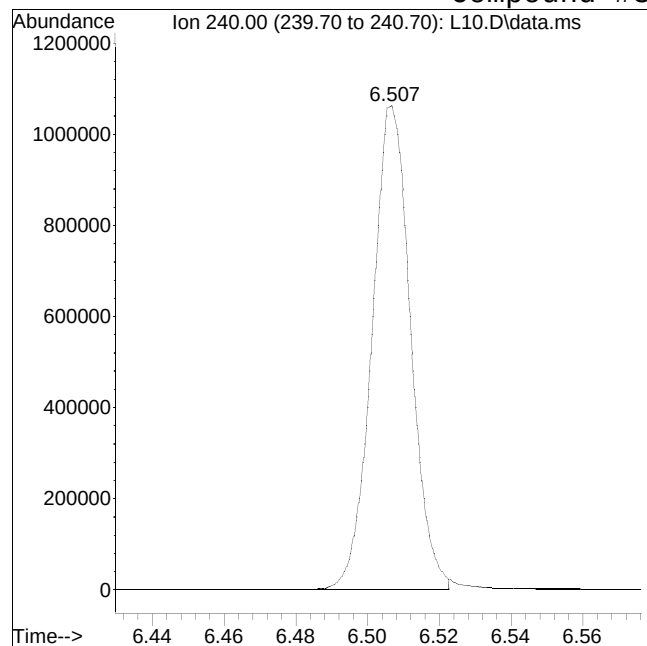
Manual Peak Response = 1352301 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

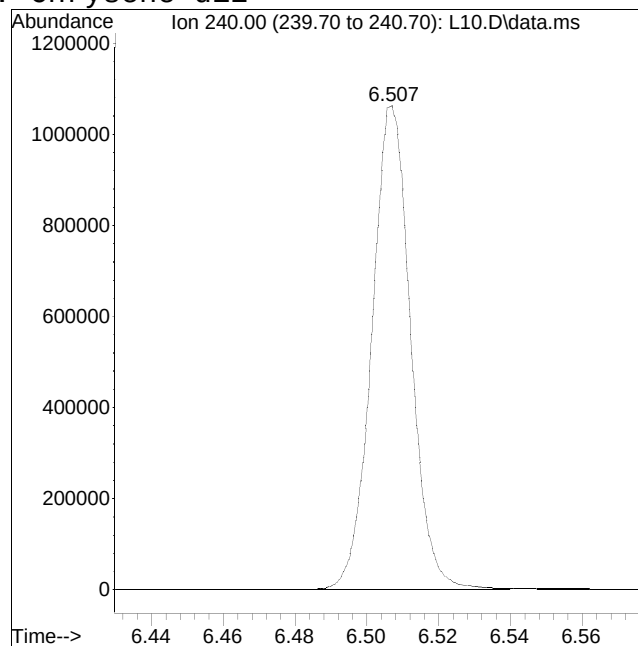
Data Path : I:\8270SIM\sv119\250625RVT\Method : SIM-RVT_250625_sv119.M
Data File : L10.D Operator : sv119:ljl
Date Inj'd : 6/25/2025 8:07 pm Instrument : SV119
Sample : IL10,32,,5 Lot# 11697 Quant Date : 6/26/2025 6:28 pm

Compound #33: Chrysene-d12



Original Peak Response = 793361

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

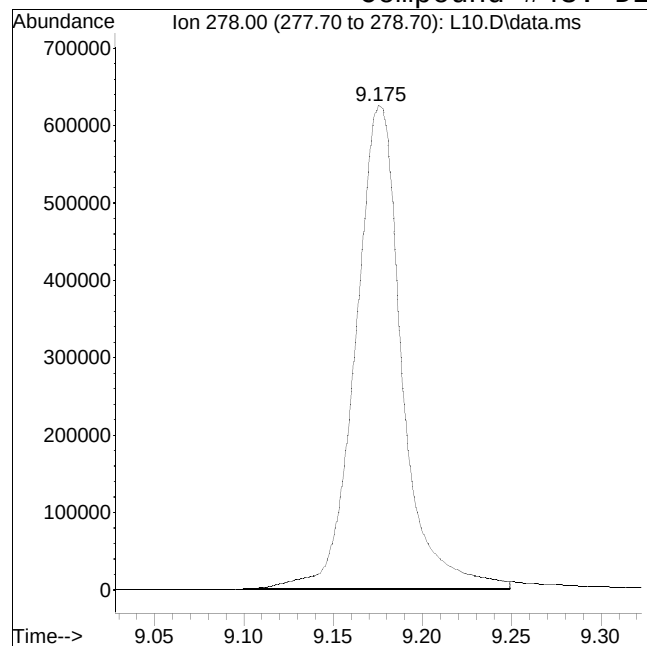


Manual Peak Response = 800659 M1

Manual Integration Report

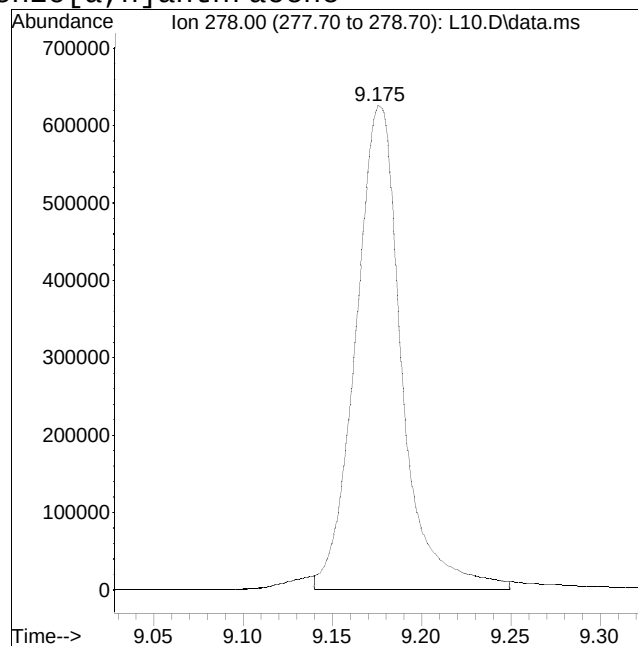
Data Path : I:\8270SIM\sv119\250625RVT\Method : SIM-RVT_250625_sv119.M
Data File : L10.D Operator : sv119:ljg
Date Inj'd : 6/25/2025 8:07 pm Instrument : SV119
Sample : IL10,32,,5 Lot# 11697 Quant Date : 6/26/2025 6:28 pm

Compound #43: Dibenzo[a,h]anthracene



Original Peak Response = 1134450

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 1122130 M6

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250625RVTical\
 Data File : L9.D
 Acq On : 25 Jun 2025 08:23 pm
 Operator : sv119:ljg
 Sample : IL9,32,,2.5 Lot# 11699
 Misc : WG2084288,,ical
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 26 18:28:07 2025
 Quant Method : I:\8270SIM\sv119\250625RVTical\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 26 18:29:03 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\250625RVTical\L8.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.354	152	142146	4000.000	ng/ml	0.00
Standard Area 1 = 144221			Recovery	=	98.56%	
9) Naphthalene-d8	3.016	136	568248	4000.000	ng/ml	0.00
Standard Area 1 = 566700			Recovery	=	100.27%	
18) Acenaphthene-d10	3.992	164	366269	4000.000	ng/ml	0.00
Standard Area 1 = 346174			Recovery	=	105.80%	
23) Phenanthrene-d10	4.836	188	739471	4000.000	ng/ml	0.00
Standard Area 1 = 720898			Recovery	=	102.58%	
33) Chrysene-d12	6.457	240	842714	4000.000	ng/ml	0.00
Standard Area 1 = 872550			Recovery	=	96.58%	
38) Perylene-d12	7.765	264	874695	4000.000	ng/ml	0.00
Standard Area 1 = 911236			Recovery	=	95.99%	
System Monitoring Compounds						
3) 2-Fluorophenol	1.754	112	101049	2460.061	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	=	123.00%#	
4) Phenol-d6	2.156	99	127550	2499.945	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	=	125.00%#	
8) Nitrobenzene-d5	2.632	82	115064	2462.813	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	=	246.28%#	
14) 2-Fluorobiphenyl	3.608	172	320618	2517.904	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	=	251.79%#	
22) 2,4,6-Tribromophenol	4.436	330	55090	2619.673	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	=	130.98%#	
32) 4-Terphenyl-d14	5.772	244	478625	2341.228	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	=	234.12%#	
Target Compounds						
						Qvalue
2) N-Nitrosodimethylamine	1.294	74	61514M7	2519.769	ng/mL	
5) Bis(2-chloroethyl)ether	2.211	93	103708	2339.530	ng/ml	98
6) n-nitrosodi-n-propylamine	2.551	70	85529	2589.757	ng/ml	99
7) Hexachloroethane	2.615	117	45075	2469.776	ng/ml	99
10) Naphthalene	3.028	128	361716	2343.856	ng/ml	100
11) Hexachlorobutadiene	3.099	225	69145	2388.511	ng/ml	100
12) 2-Methylnaphthalene	3.405	142	238128	2422.491	ng/ml	100
13) 1-Methylnaphthalene	3.460	142	250822	2522.968	ng/ml	99
15) 2-Chloronaphthalene	3.675	162	276959	2587.541	ng/ml	97
16) 2,6-Dinitrotoluene	3.866	165	70316	3046.547	ng/ml	99
17) Acenaphthylene	3.910	152	489639	2723.238	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250625RVTical\
 Data File : L9.D
 Acq On : 25 Jun 2025 08:23 pm
 Operator : sv119:ljg
 Sample : IL9,32,,2.5 Lot# 11699
 Misc : WG2084288,,ical
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 26 18:28:07 2025
 Quant Method : I:\8270SIM\sv119\250625RVTical\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 26 18:29:03 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\250625RVTical\L8.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19)	Acenaphthene	4.009	153	289001	2383.025	ng/ml	98
20)	2,4-Dinitrotoluene	4.095	165	96949	2915.834	ng/ml	98
21)	Fluorene	4.300	166	341598	2337.321	ng/ml	100
24)	4,6-Dinitro-o-cresol	4.325	198	48071	2520.344	ng/ml	99
25)	Hexachlorobenzene	4.617	284	123079	2360.939	ng/ml	97
26)	Pentachlorophenol	4.728	266	63083	2596.972	ng/ml	100
27)	Phenanthrene	4.850	178	532046	2378.696	ng/ml	100
28)	Anthracene	4.878	178	562710	2491.281	ng/ml	100
29)	Fluoranthene	5.544	202	726025	2464.337	ng/ml	99
30)	Pyrene	5.678	202	752244	2426.317	ng/ml	100
31)	Benizidine	5.620	184	458790	2672.864	ng/mL	99
34)	Benzo[a]anthracene	6.448	228	734750	2573.632	ng/ml	100
35)	3,3'-Dichlorobenzidine	6.430	252	322205	2864.543	ng/ml	100
36)	Chrysene	6.474	228	691449	2540.906	ng/ml	99
37)	Bis(2-ethylhexyl)phtha...	6.472	149	435889	2889.872	ng/ml	99
39)	Benzo[b]fluoranthene	7.363	252	693130	2867.727	ng/ml	99
40)	Benzo[k]fluoranthene	7.391	252	734608	2627.930	ng/ml	98
41)	Benzo[a]pyrene	7.699	252	667926	2908.675	ng/ml	100
42)	Indeno[1,2,3-cd]pyrene	9.083	276	578026	2603.994	ng/ml	98
43)	Dibenzo[a,h]anthracene	9.121	278	568596M6	2585.880	ng/ml	
44)	Benzo[g,h,i]perylene	9.451	276	623105	2921.467	ng/ml	99

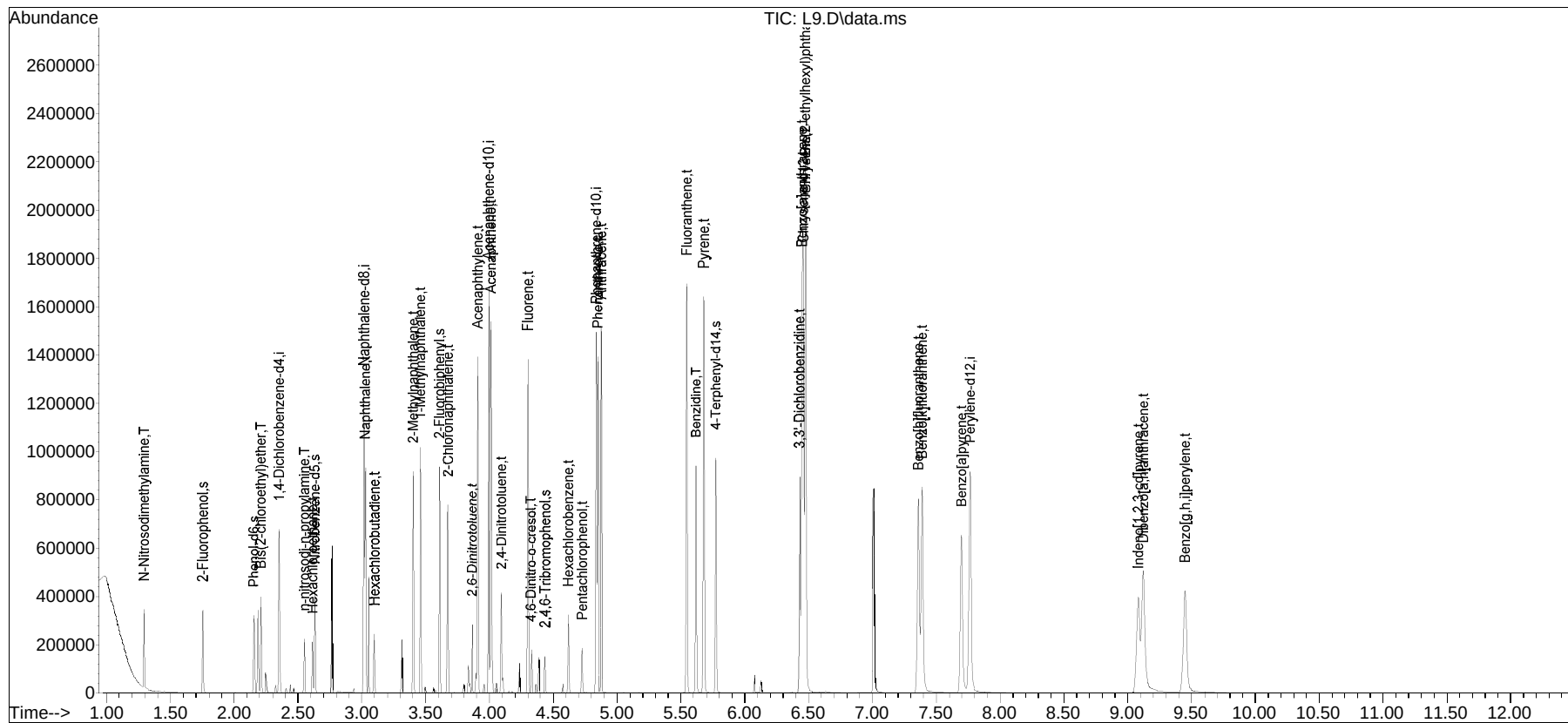
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

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Data Path : I:\8270SIM\sv119\250625RVTical\
Data File : L9.D
Acq On    : 25 Jun 2025 08:23 pm
Operator  : sv119:ljg
Sample    : IL9,32,,2.5 Lot# 11699
Misc      : WG2084288,,ical
ALS Vial  : 2 Sample Multiplier: 1
```

Quant Time: Jun 26 18:28:07 2025
Quant Method : I:\8270SIM\sv119\250625RVTical\SIM-RVT_250625_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 26 18:29:03 2025
Response via : Initial Calibration

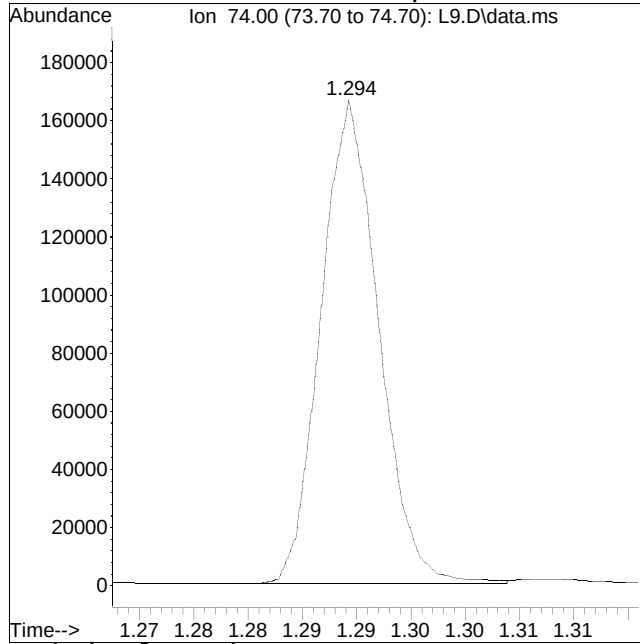
Sub List : Default - All compounds listedical\L8.D•



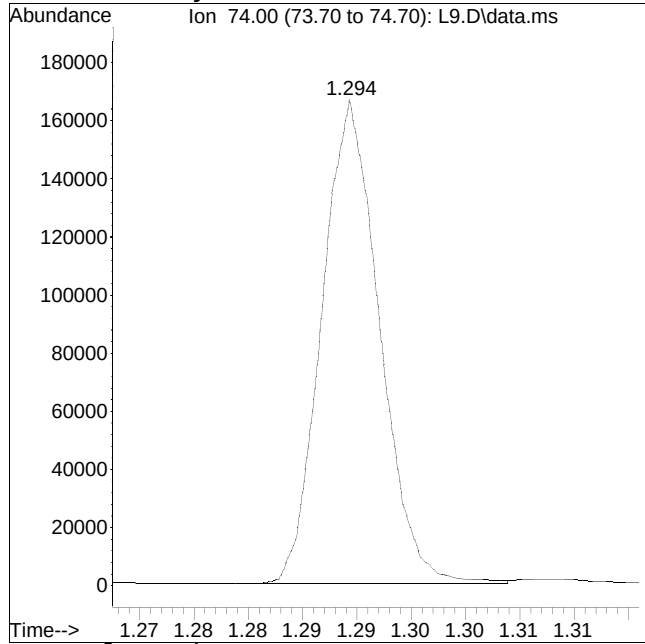
Manual Integration Report

Data Path : I:\8270SIM\sv119\250625RVTQMethod : SIM-RVT_250625_sv119.M
Data File : L9.D Operator : sv119:ljl
Date Inj'd : 6/25/2025 8:23 pm Instrument : SV119
Sample : IL9,32,,2.5 Lot# 11699 Quant Date : 6/26/2025 6:29 pm

Compound #2: N-Nitrosodimethylamine



Original Peak Response = 61514



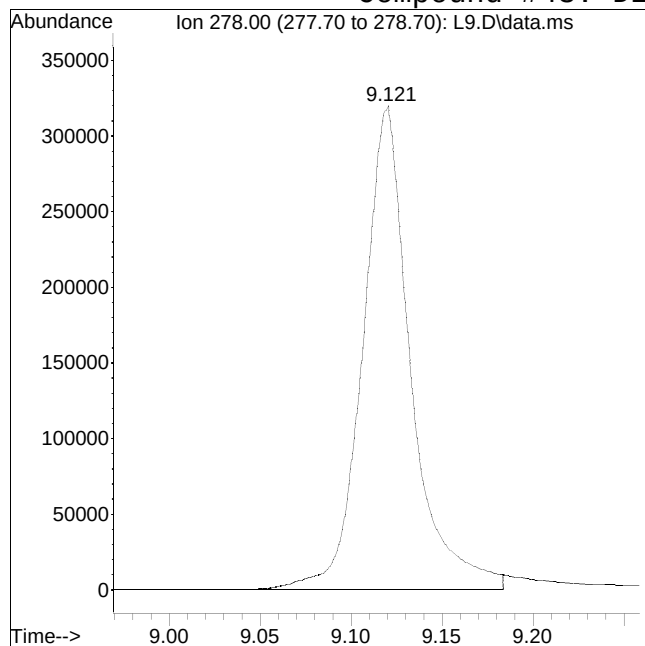
Manual Peak Response = 61514 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

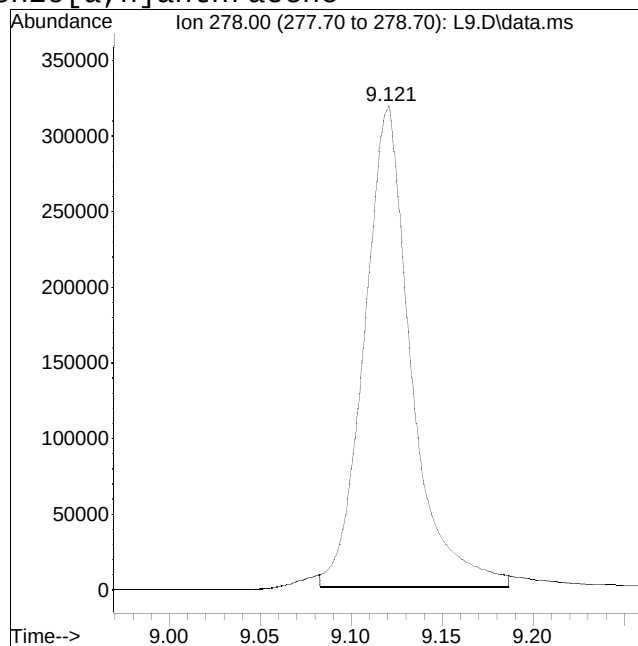
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Data File : L9.D
Date Inj'd : 6/25/2025 8:23 pm
Sample : IL9,32,,2.5 Lot# 11699
Method : SIM-RVT_250625_sv119.M
Operator : sv119:ljb
Instrument : SV119
Quant Date : 6/26/2025 6:29 pm

Compound #43: Dibenzo[a,h]anthracene



Original Peak Response = 587879

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 568596 M6

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250625RVTical\
 Data File : L8.D
 Acq On : 25 Jun 2025 08:40 pm
 Operator : sv119:ljg
 Sample : IL8,32,,1 Lot# 11700
 Misc : WG2084288,,ical
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 26 18:28:02 2025
 Quant Method : I:\8270SIM\sv119\250625RVTical\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 26 18:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\250625RVTical\L8.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.357	152	144221	4000.000	ng/ml	0.00
Standard Area 1 = 144221			Recovery	=	100.00%	
9) Naphthalene-d8	3.019	136	566700	4000.000	ng/ml	0.00
Standard Area 1 = 566700			Recovery	=	100.00%	
18) Acenaphthene-d10	3.994	164	346174	4000.000	ng/ml	0.00
Standard Area 1 = 346174			Recovery	=	100.00%	
23) Phenanthrene-d10	4.837	188	720898	4000.000	ng/ml	0.00
Standard Area 1 = 720898			Recovery	=	100.00%	
33) Chrysene-d12	6.448	240	872537	4000.000	ng/ml	0.00
Standard Area 1 = 872550			Recovery	=	100.00%	
38) Perylene-d12	7.758	264	911704	4000.000	ng/ml	0.00
Standard Area 1 = 911236			Recovery	=	100.05%	
System Monitoring Compounds						
3) 2-Fluorophenol	1.755	112	39688	952.312	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	=	47.62%	
4) Phenol-d6	2.156	99	51319	991.367	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	=	49.57%	
8) Nitrobenzene-d5	2.634	82	46314	977.036	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	=	97.70%	
14) 2-Fluorobiphenyl	3.611	172	125633	989.327	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	=	98.93%	
22) 2,4,6-Tribromophenol	4.436	330	20438	1028.297	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	=	51.41%	
32) 4-Terphenyl-d14	5.767	244	201329	1010.187	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	=	101.02%	
Target Compounds						
						Qvalue
2) N-Nitrosodimethylamine	1.294	74	24464M7	987.689	ng/mL	
5) Bis(2-chloroethyl)ether	2.214	93	42440	943.622	ng/ml	98
6) n-nitrosodi-n-propylamine	2.553	70	33388	996.419	ng/ml	99
7) Hexachloroethane	2.618	117	18335	990.168	ng/ml	99
10) Naphthalene	3.031	128	146134	949.509	ng/ml	100
11) Hexachlorobutadiene	3.102	225	28093	973.082	ng/ml	99
12) 2-Methylnaphthalene	3.407	142	92571	944.303	ng/ml	100
13) 1-Methylnaphthalene	3.463	142	97695	985.378	ng/ml	100
15) 2-Chloronaphthalene	3.678	162	106702	999.606	ng/ml	98
16) 2,6-Dinitrotoluene	3.866	165	24123	1048.021	ng/ml	100
17) Acenaphthylene	3.912	152	184065	1026.516	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250625RVTical\
 Data File : L8.D
 Acq On : 25 Jun 2025 08:40 pm
 Operator : sv119:ljb
 Sample : IL8,32,,1 Lot# 11700
 Misc : WG2084288,,ical
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 26 18:28:02 2025
 Quant Method : I:\8270SIM\sv119\250625RVTical\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 26 18:28:59 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\250625RVTical\L8.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19)	Acenaphthene	4.012	153	111512	972.874	ng/ml	100
20)	2,4-Dinitrotoluene	4.095	165	32975	1049.325	ng/ml	99
21)	Fluorene	4.303	166	136013	984.666	ng/ml	100
24)	4,6-Dinitro-o-cresol	4.325	198	16715	911.497	ng/ml	99
25)	Hexachlorobenzene	4.621	284	48068	945.811	ng/ml	97
26)	Pentachlorophenol	4.728	266	19735	955.848	ng/ml	100
27)	Phenanthrene	4.850	178	208371	955.596	ng/ml	100
28)	Anthracene	4.878	178	220322	1000.560	ng/ml	100
29)	Fluoranthene	5.539	202	288509	1004.512	ng/ml	99
30)	Pyrene	5.675	202	303672	1004.710	ng/ml	100
31)	Benzydine	5.615	184	141489	932.924	ng/mL	99
34)	Benzo[a]anthracene	6.439	228	298396	1004.639	ng/ml	100
35)	3,3'-Dichlorobenzidine	6.421	252	127788	1097.260	ng/ml	100
36)	Chrysene	6.464	228	287027	1018.703	ng/ml	99
37)	Bis(2-ethylhexyl)phtha...	6.462	149	161757	1035.767	ng/ml	99
39)	Benzo[b]fluoranthene	7.353	252	275495	1093.553	ng/ml	98
40)	Benzo[k]fluoranthene	7.379	252	304265	1044.270	ng/ml	99
41)	Benzo[a]pyrene	7.689	252	266043	1111.531	ng/ml	100
42)	Indeno[1,2,3-cd]pyrene	9.072	276	214106	997.670	ng/ml	98
43)	Dibenzo[a,h]anthracene	9.107	278	219901M6	1002.217	ng/ml	
44)	Benzo[g,h,i]perylene	9.440	276	249596	1122.743	ng/ml	98

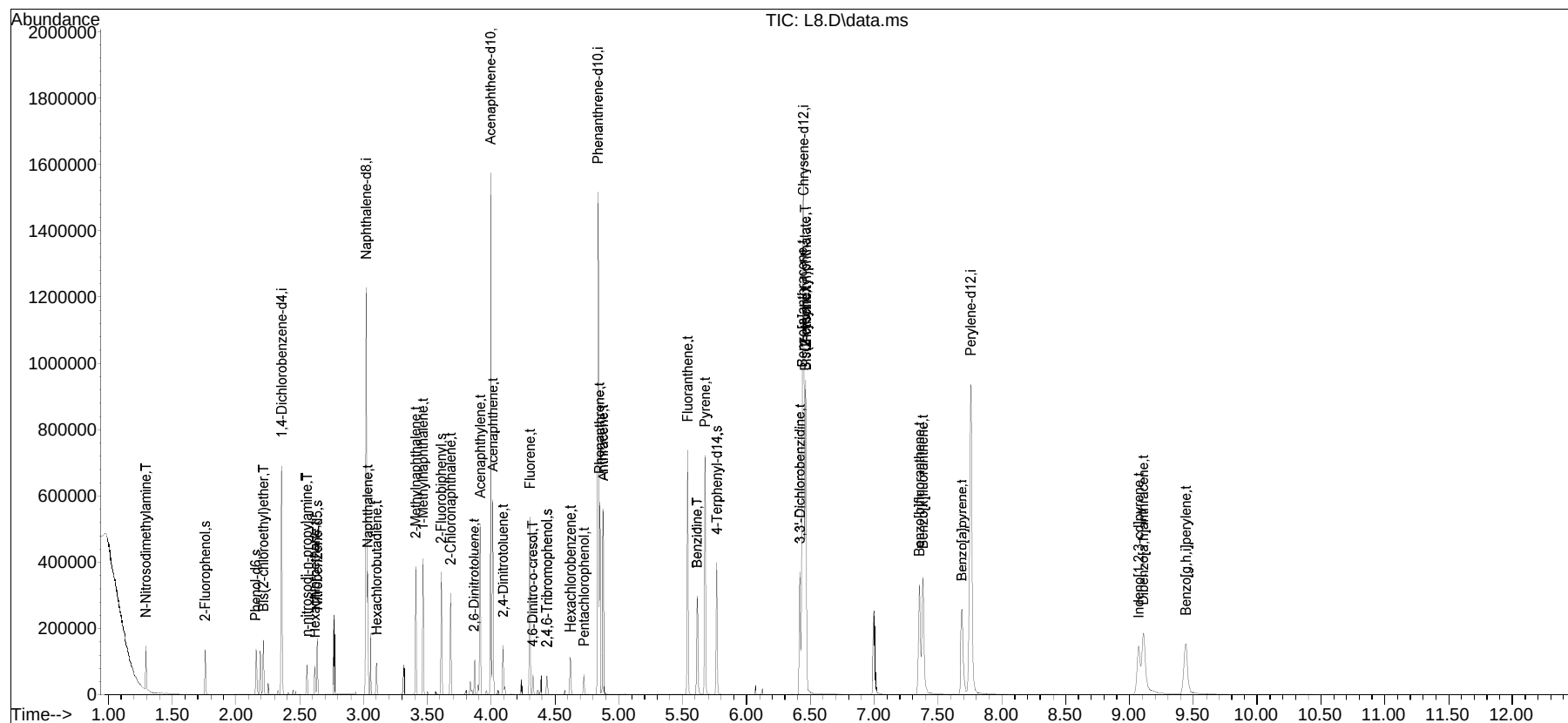
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250625RVTical\
 Data File : L8.D
 Acq On : 25 Jun 2025 08:40 pm
 Operator : sv119:ljg
 Sample : IL8,32,,1 Lot# 11700
 Misc : WG2084288,,ical
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 26 18:28:02 2025
 Quant Method : I:\8270SIM\sv119\250625RVTical\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 26 18:28:59 2025
 Response via : Initial Calibration

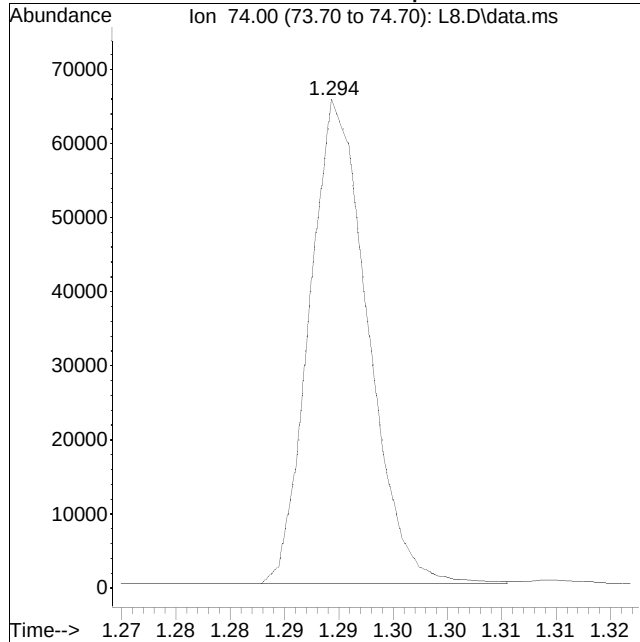
Sub List : Default - All compounds listedical\L8.D•



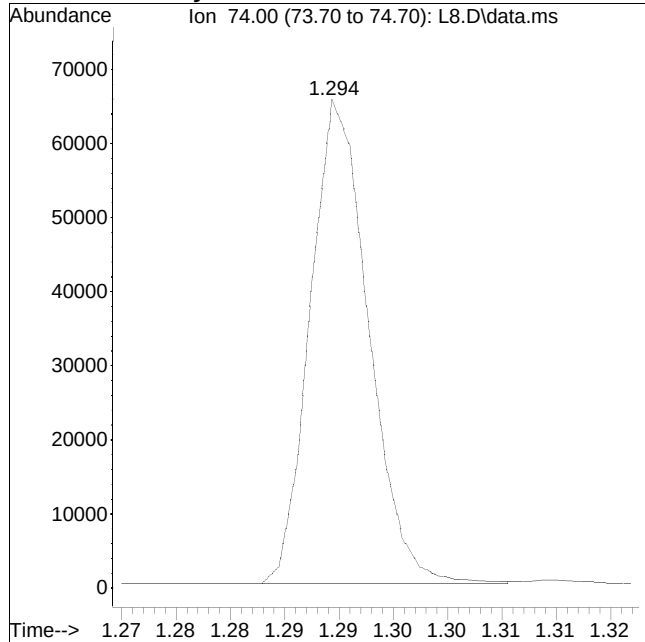
Manual Integration Report

Data Path : I:\8270SIM\sv119\250625RVT\Method : SIM-RVT_250625_sv119.M
Data File : L8.D Operator : sv119:ljg
Date Inj'd : 6/25/2025 8:40 pm Instrument : SV119
Sample : IL8,32,,1 Lot# 11700 Quant Date : 6/26/2025 6:28 pm

Compound #2: N-Nitrosodimethylamine



Original Peak Response = 24464



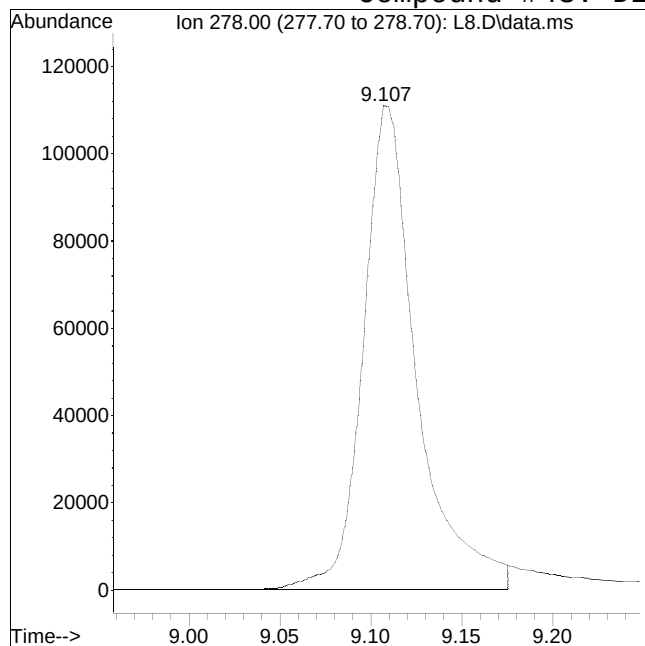
Manual Peak Response = 24464 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

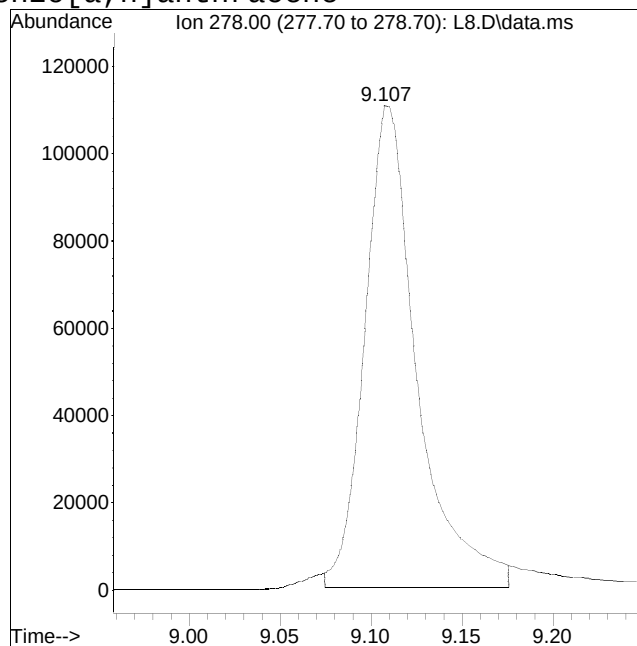
Data Path : I:\8270SIM\sv119\250625RVT\Method : SIM-RVT_250625_sv119.M
Data File : L8.D Operator : sv119:ljl
Date Inj'd : 6/25/2025 8:40 pm Instrument : SV119
Sample : IL8,32,,1 Lot# 11700 Quant Date : 6/26/2025 6:28 pm

Compound #43: Dibenzo[a,h]anthracene



Original Peak Response = 227302

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 219901 M6

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250625RVTical\
 Data File : L7.D
 Acq On : 25 Jun 2025 08:57 pm
 Operator : sv119:ljl
 Sample : IL7,32,,0.5 Lot# 11701
 Misc : WG2084288,,ical
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 26 18:27:58 2025
 Quant Method : I:\8270SIM\sv119\250625RVTical\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 26 18:28:54 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\250625RVTical\L8.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.357	152	133049	4000.000	ng/ml	0.00
Standard Area 1 = 144221			Recovery	=	92.25%	
9) Naphthalene-d8	3.019	136	513211	4000.000	ng/ml	0.00
Standard Area 1 = 566700			Recovery	=	90.56%	
18) Acenaphthene-d10	3.994	164	307627	4000.000	ng/ml	0.00
Standard Area 1 = 346174			Recovery	=	88.86%	
23) Phenanthrene-d10	4.837	188	633452	4000.000	ng/ml	0.00
Standard Area 1 = 720898			Recovery	=	87.87%	
33) Chrysene-d12	6.447	240	798183	4000.000	ng/ml	0.00
Standard Area 1 = 872550			Recovery	=	91.48%	
38) Perylene-d12	7.759	264	812958	4000.000	ng/ml	0.00
Standard Area 1 = 911236			Recovery	=	89.21%	
System Monitoring Compounds						
3) 2-Fluorophenol	1.755	112	18916	492.001	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	=	24.60%	
4) Phenol-d6	2.159	99	23792	498.200	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	=	24.91%	
8) Nitrobenzene-d5	2.636	82	20858	476.966	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	=	47.70%	
14) 2-Fluorobiphenyl	3.611	172	57651	501.303	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	=	50.13%	
22) 2,4,6-Tribromophenol	4.440	330	8889	503.272	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	=	25.16%	
32) 4-Terphenyl-d14	5.767	244	90299	515.631	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	=	51.56%	
Target Compounds						
						Qvalue
2) N-Nitrosodimethylamine	1.293	74	11774M7	515.269	ng/mL	
5) Bis(2-chloroethyl)ether	2.214	93	19692	474.602	ng/ml	97
6) n-nitrosodi-n-propylamine	2.554	70	15097	488.382	ng/ml	98
7) Hexachloroethane	2.618	117	8572	501.796	ng/ml	99
10) Naphthalene	3.031	128	67207	482.192	ng/ml	100
11) Hexachlorobutadiene	3.102	225	13053	499.251	ng/ml	100
12) 2-Methylnaphthalene	3.410	142	42675	480.692	ng/ml	100
13) 1-Methylnaphthalene	3.466	142	44683	497.657	ng/ml	100
15) 2-Chloronaphthalene	3.678	162	48901	505.861	ng/ml	97
16) 2,6-Dinitrotoluene	3.868	165	9841	472.101	ng/ml	98
17) Acenaphthylene	3.912	152	83227	512.526	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250625RVTical\
 Data File : L7.D
 Acq On : 25 Jun 2025 08:57 pm
 Operator : sv119:ljg
 Sample : IL7,32,,0.5 Lot# 11701
 Misc : WG2084288,,ical
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 26 18:27:58 2025
 Quant Method : I:\8270SIM\sv119\250625RVTical\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 26 18:28:54 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\250625RVTical\L8.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19)	Acenaphthene	4.009	153	51039	501.080	ng/ml	99
20)	2,4-Dinitrotoluene	4.095	165	13593	486.755	ng/ml	98
21)	Fluorene	4.303	166	61605	501.874	ng/ml	100
24)	4,6-Dinitro-o-cresol	4.325	198	7007	445.059	ng/ml	99
25)	Hexachlorobenzene	4.621	284	22020	493.089	ng/ml	96
26)	Pentachlorophenol	4.728	266	7174	414.716	ng/ml	99
27)	Phenanthrene	4.849	178	94623	493.849	ng/ml	99
28)	Anthracene	4.878	178	98598	509.581	ng/ml	100
29)	Fluoranthene	5.539	202	129239	512.094	ng/ml	99
30)	Pyrene	5.675	202	136207	512.856	ng/ml	100
31)	Benzidine	5.615	184	33838	346.947	ng/mL	99
34)	Benzo[a]anthracene	6.438	228	137295	501.348	ng/ml	100
35)	3,3'-Dichlorobenzidine	6.419	252	54713	513.560	ng/ml	100
36)	Chrysene	6.464	228	135772	526.764	ng/ml	99
37)	Bis(2-ethylhexyl)phtha...	6.461	149	68696	480.852	ng/ml	100
39)	Benzo[b]fluoranthene	7.350	252	118764	528.684	ng/ml	98
40)	Benzo[k]fluoranthene	7.378	252	137962	531.014	ng/ml	99
41)	Benzo[a]pyrene	7.688	252	116170	544.314	ng/ml	100
42)	Indeno[1,2,3-cd]pyrene	9.068	276	84822	456.663	ng/ml	98
43)	Dibenzo[a,h]anthracene	9.103	278	91750M6	477.768	ng/ml	
44)	Benzo[g,h,i]perylene	9.431	276	108301	546.337	ng/ml	99

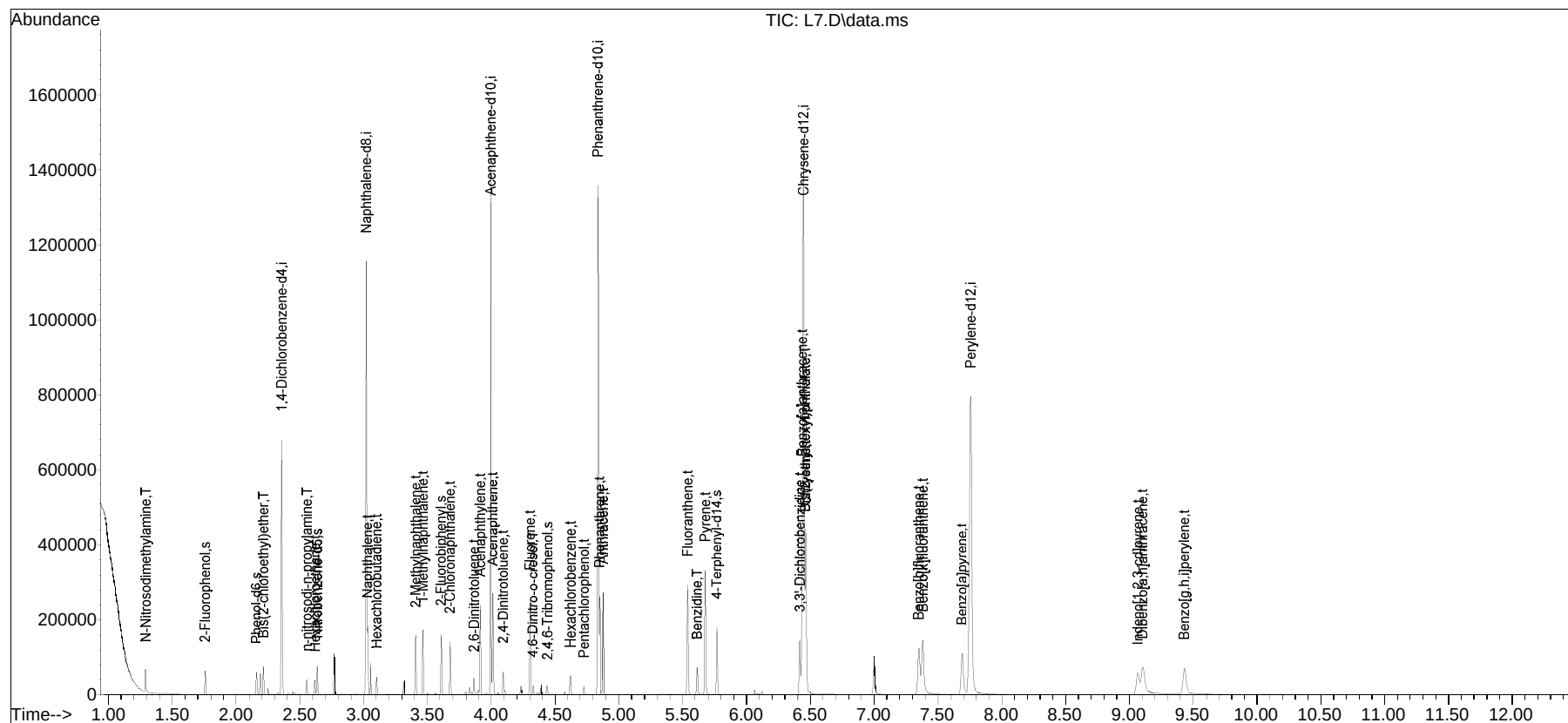
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250625RVTical\
 Data File : L7.D
 Acq On : 25 Jun 2025 08:57 pm
 Operator : sv119:ljg
 Sample : IL7,32,,0.5 Lot# 11701
 Misc : WG2084288,,ical
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 26 18:27:58 2025
 Quant Method : I:\8270SIM\sv119\250625RVTical\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 26 18:28:54 2025
 Response via : Initial Calibration

Sub List : Default - All compounds listedical\L8.D•

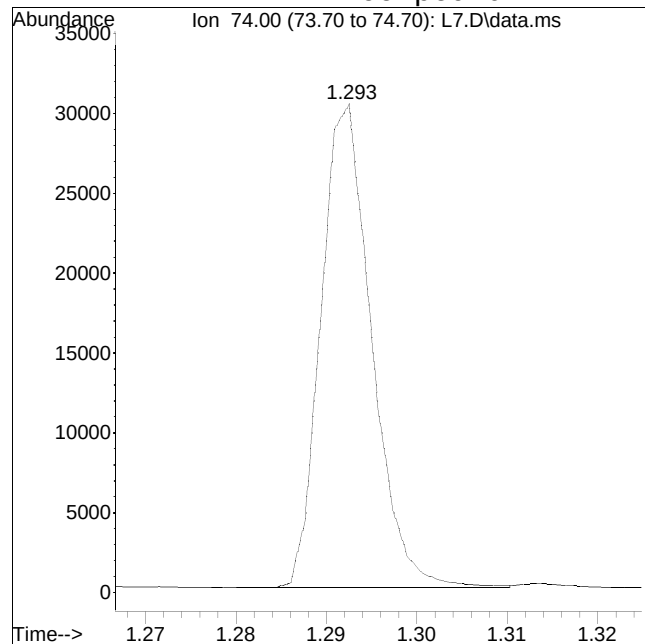


Manual Integration Report

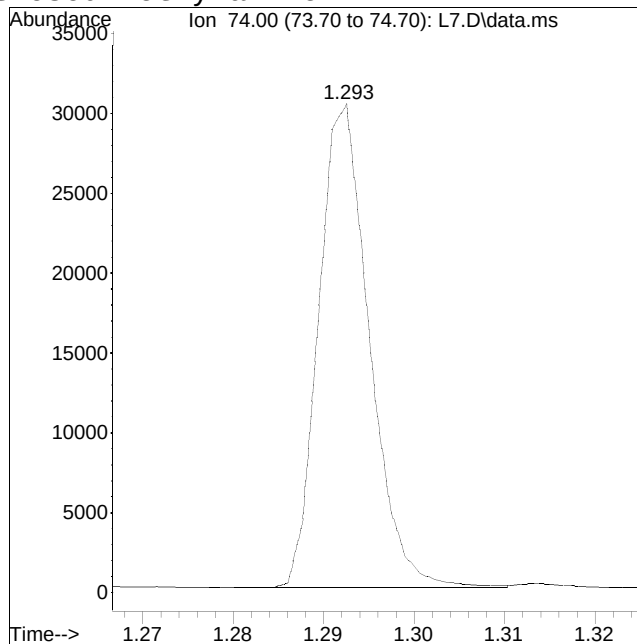
Data Path : I:\8270SIM\sv119\250625RVT001
Data File : L7.D
Date Inj'd : 6/25/2025 8:57 pm
Sample : IL7,32,,0.5 Lot# 11701

Method : SIM-RVT_250625_sv119.M
Operator : sv119:ljl
Instrument : SV119
Quant Date : 6/26/2025 6:28 pm

Compound #2: N-Nitrosodimethylamine



Original Peak Response = 11774



Manual Peak Response = 11774 M7

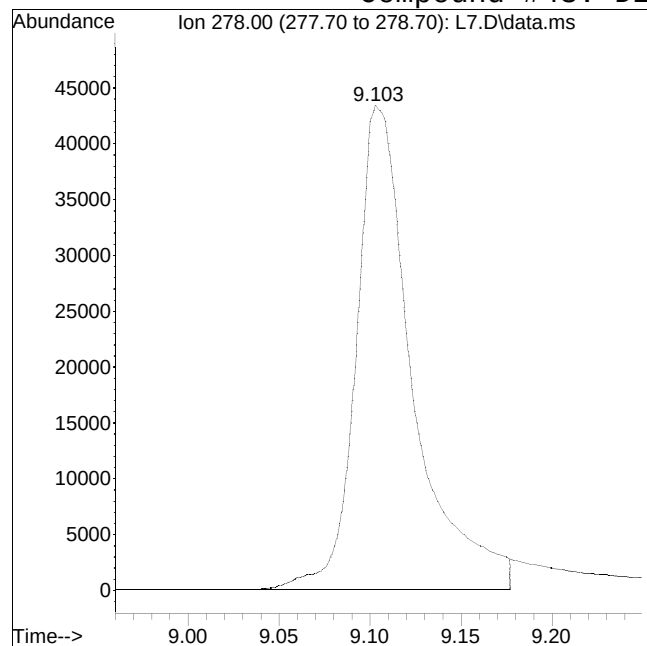
M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

Data Path : I:\8270SIM\sv119\250625RVT
Data File : L7.D
Date Inj'd : 6/25/2025 8:57 pm
Sample : IL7,32,,0.5 Lot# 11701

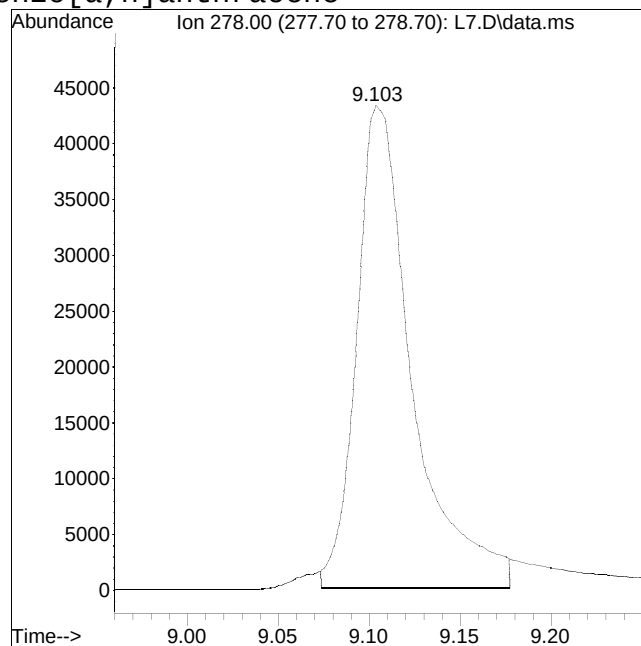
Operator : sv119:ljl
Instrument : SV119
Quant Date : 6/26/2025 6:28 pm

Compound #43: Dibenzo[a,h]anthracene



Original Peak Response = 94479

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 91750 M6

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250625RVTical\
 Data File : L6.D
 Acq On : 25 Jun 2025 09:14 pm
 Operator : sv119:ljl
 Sample : IL6,32,,0.1 Lot# 11702
 Misc : WG2084288,,ical
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 26 18:27:53 2025
 Quant Method : I:\8270SIM\sv119\250625RVTical\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 26 18:28:49 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\250625RVTical\L6.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.357	152	132011	4000.000	ng/ml	0.00
Standard Area 1 = 144221			Recovery =	91.53%		
9) Naphthalene-d8	3.019	136	502383	4000.000	ng/ml	0.00
Standard Area 1 = 566700			Recovery =	88.65%		
18) Acenaphthene-d10	3.994	164	290747	4000.000	ng/ml	0.00
Standard Area 1 = 346174			Recovery =	83.99%		
23) Phenanthrene-d10	4.837	188	597597	4000.000	ng/ml	0.00
Standard Area 1 = 720898			Recovery =	82.90%		
33) Chrysene-d12	6.445	240	702985	4000.000	ng/ml	0.00
Standard Area 1 = 872550			Recovery =	80.57%		
38) Perylene-d12	7.756	264	683358	4000.000	ng/ml	0.00
Standard Area 1 = 911236			Recovery =	74.99%		
System Monitoring Compounds						
3) 2-Fluorophenol	1.754	112	3625	95.027	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery =	4.75%#		
4) Phenol-d6	2.159	99	4506	95.097	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery =	4.75%#		
8) Nitrobenzene-d5	2.636	82	3827	88.201	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery =	8.82%#		
14) 2-Fluorobiphenyl	3.614	172	10899	96.815	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery =	9.68%#		
22) 2,4,6-Tribromophenol	4.440	330	1528	91.534	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery =	4.58%#		
32) 4-Terphenyl-d14	5.767	244	15612	94.497	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery =	9.45%#		
Target Compounds						
2) N-Nitrosodimethylamine	1.286	74	2262M7	99.771	ng/mL	
5) Bis(2-chloroethyl)ether	2.214	93	3767	91.503	ng/ml	97
6) n-nitrosodi-n-propylamine	2.554	70	2777	90.541	ng/ml	100
7) Hexachloroethane	2.619	117	1624	95.815	ng/ml	98
10) Naphthalene	3.031	128	13015	95.392	ng/ml	100
11) Hexachlorobutadiene	3.102	225	2493	97.407	ng/ml	100
12) 2-Methylnaphthalene	3.410	142	7926	91.203	ng/ml	100
13) 1-Methylnaphthalene	3.466	142	8389	95.446	ng/ml	100
15) 2-Chloronaphthalene	3.681	162	9131	96.492	ng/ml	97
16) 2,6-Dinitrotoluene	3.868	165	1634	80.077	ng/ml	98
17) Acenaphthylene	3.912	152	15010	94.426	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250625RVTical\
 Data File : L6.D
 Acq On : 25 Jun 2025 09:14 pm
 Operator : sv119:ljb
 Sample : IL6,32,,0.1 Lot# 11702
 Misc : WG2084288,,ical
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 26 18:27:53 2025
 Quant Method : I:\8270SIM\sv119\250625RVTical\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 26 18:28:49 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\250625RVTical\L8.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19)	Acenaphthene	4.012	153	9478	98.453	ng/ml	99
20)	2,4-Dinitrotoluene	4.095	165	2171	82.255	ng/ml	95
21)	Fluorene	4.303	166	11212	96.643	ng/ml	99
24)	4,6-Dinitro-o-cresol	4.327	198	1109	90.911	ng/ml	99
25)	Hexachlorobenzene	4.621	284	3927	93.213	ng/ml	98
26)	Pentachlorophenol	4.728	266	1356M7	84.297	ng/ml	
27)	Phenanthrene	4.850	178	17837	98.679	ng/ml	99
28)	Anthracene	4.878	178	17259	94.551	ng/ml	100
29)	Fluoranthene	5.539	202	22014	92.461	ng/ml	99
30)	Pyrene	5.673	202	23165	92.456	ng/ml	100
31)	Benzidine	5.615	184	326M7	130.059	ng/mL	
34)	Benzo[a]anthracene	6.439	228	23824	92.386	ng/ml	99
35)	3,3'-Dichlorobenzidine	6.419	252	7636	81.381	ng/ml	99
36)	Chrysene	6.462	228	22870	100.746	ng/ml	99
37)	Bis(2-ethylhexyl)phtha...	6.460	149	10577M4	84.062	ng/ml	
39)	Benzo[b]fluoranthene	7.349	252	17015	90.108	ng/ml	98
40)	Benzo[k]fluoranthene	7.377	252	22388M4	102.514	ng/ml	
41)	Benzo[a]pyrene	7.688	252	16498	91.962	ng/ml	100
42)	Indeno[1,2,3-cd]pyrene	9.065	276	12042	81.260	ng/ml	97
43)	Dibenzo[a,h]anthracene	9.106	278	11261M1	74.141	ng/ml	
44)	Benzo[g,h,i]perylene	9.433	276	15417	92.523	ng/ml	99

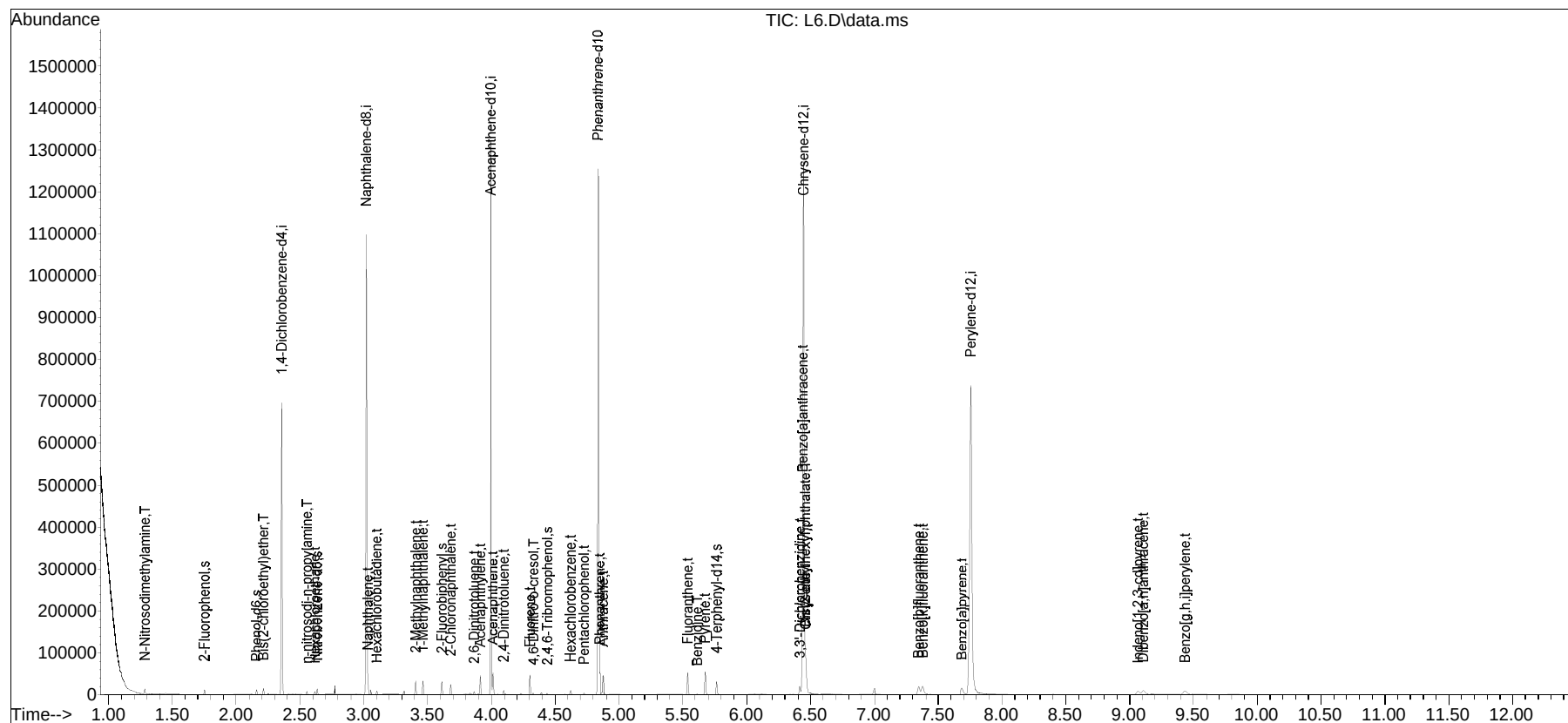
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

```
Data Path : I:\8270SIM\sv119\250625RVTical\
Data File : L6.D
Acq On    : 25 Jun 2025 09:14 pm
Operator  : sv119:ljg
Sample    : IL6,32,,0.1 Lot# 11702
Misc      : WG2084288,,ical
ALS Vial  : 5 Sample Multiplier: 1
```

Quant Time: Jun 26 18:27:53 2025
Quant Method : I:\8270SIM\sv119\250625RVTical\SIM-RVT_250625_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 26 18:28:49 2025
Response via : Initial Calibration

Sub List : Default - All compounds listedical\L8.D•

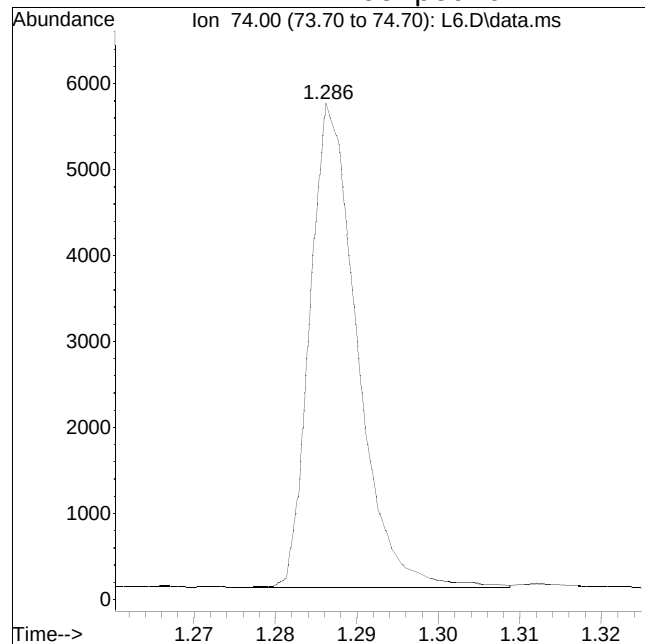


Manual Integration Report

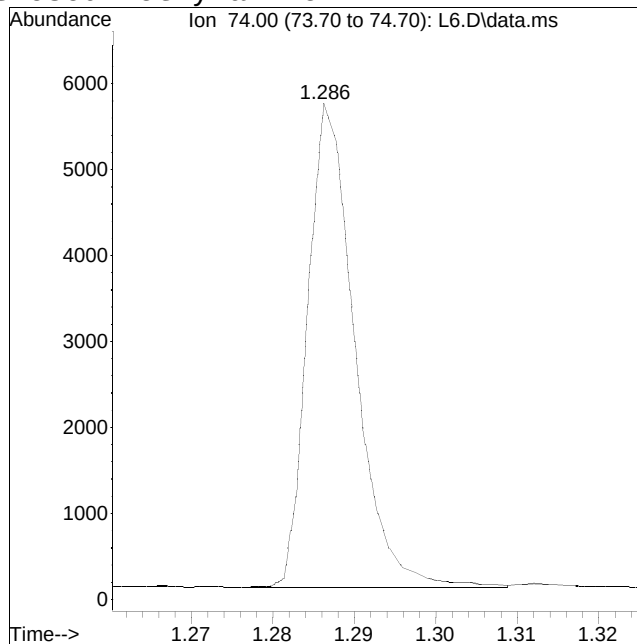
Data Path : I:\8270SIM\sv119\250625RVT\data
Data File : L6.D
Date Inj'd : 6/25/2025 9:14 pm
Sample : IL6,32,,0.1 Lot# 11702

Method : SIM-RVT_250625_sv119.M
Operator : sv119:ljl
Instrument : SV119
Quant Date : 6/26/2025 6:28 pm

Compound #2: N-Nitrosodimethylamine



Original Peak Response = 2262



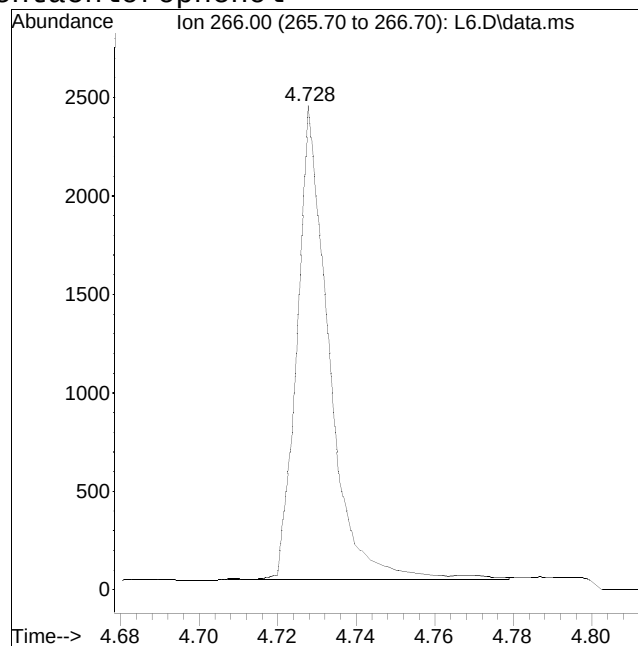
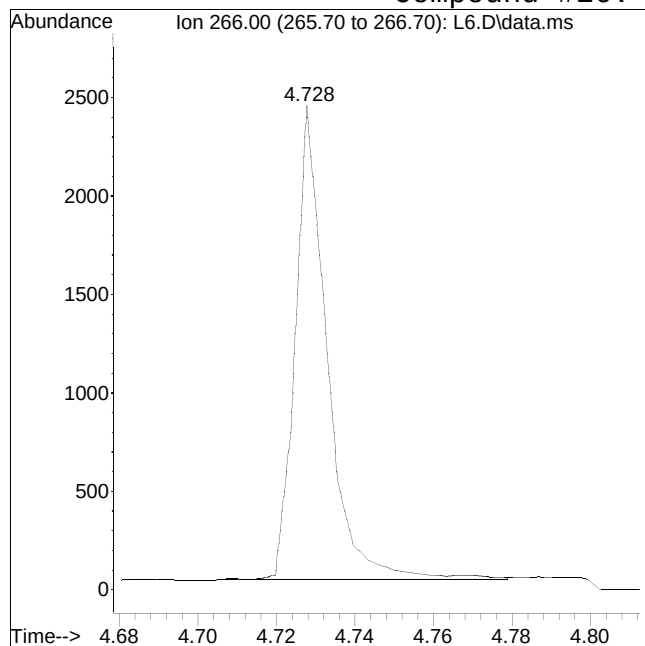
Manual Peak Response = 2262 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

Data Path : I:\8270SIM\sv119\250625RVT\data.ms
Data File : L6.D
Date Inj'd : 6/25/2025 9:14 pm
Sample : IL6,32,,0.1 Lot# 11702
Method : SIM-RVT_250625_sv119.M
Operator : sv119:ljg
Instrument : SV119
Quant Date : 6/26/2025 6:28 pm

Compound #26: Pentachlorophenol



Original Peak Response = 1356

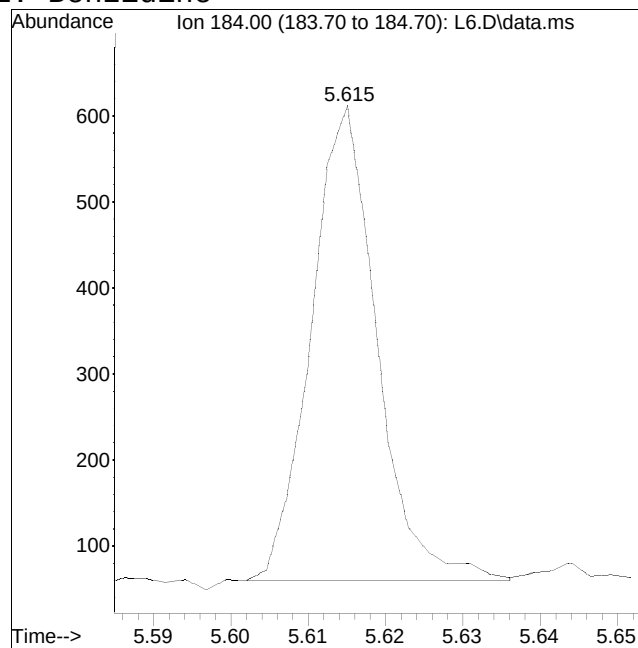
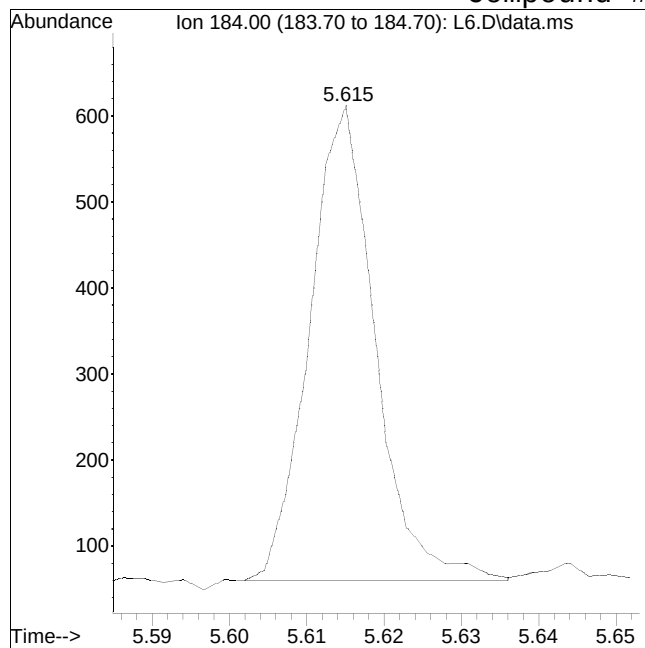
Manual Peak Response = 1356 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

Data Path : I:\8270SIM\sv119\250625RVT\data.ms
Data File : L6.D
Date Inj'd : 6/25/2025 9:14 pm
Sample : IL6,32,,0.1 Lot# 11702
Method : SIM-RVT_250625_sv119.M
Operator : sv119:ljg
Instrument : SV119
Quant Date : 6/26/2025 6:28 pm

Compound #31: Benzidine



Original Peak Response = 326

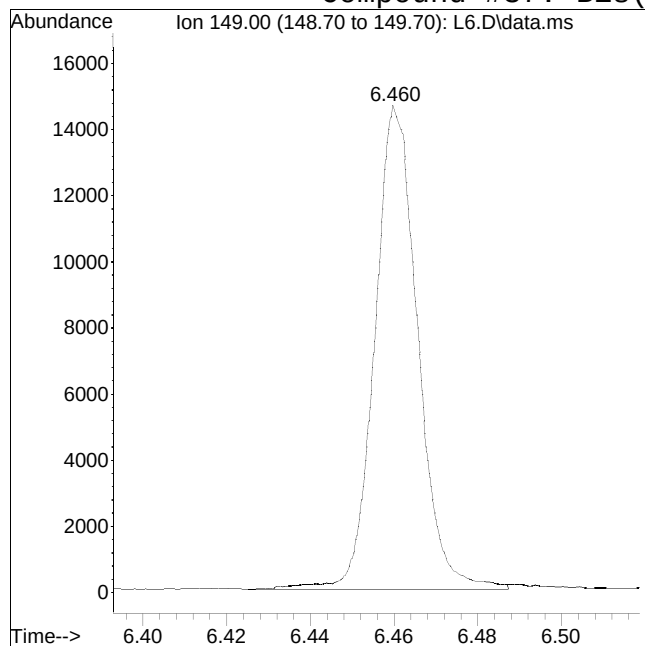
Manual Peak Response = 326 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

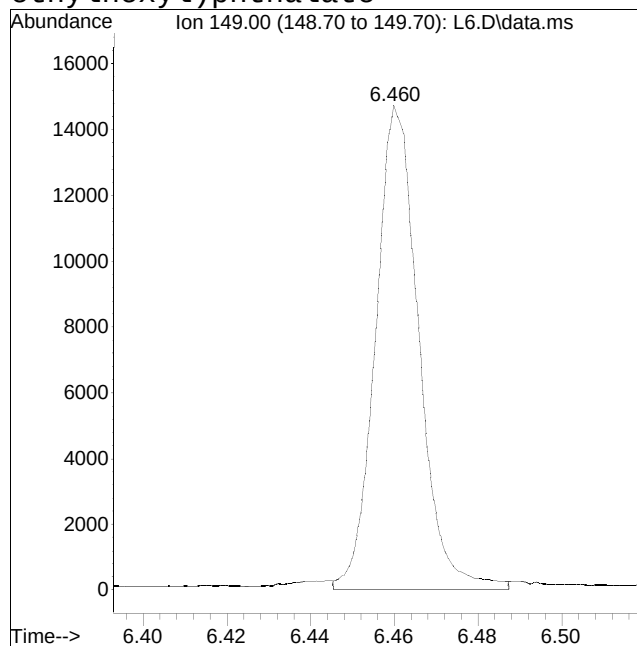
Data Path : I:\8270SIM\sv119\250625RVT01.M
Data File : L6.D
Date Inj'd : 6/25/2025 9:14 pm
Sample : IL6,32,,0.1 Lot# 11702
Method : SIM-RVT_250625_sv119.M
Operator : sv119:ljj
Instrument : SV119
Quant Date : 6/26/2025 6:28 pm

Compound #37: Bis(2-ethylhexyl)phthalate



Original Peak Response = 10503

M4 = Poor automated baseline construction.

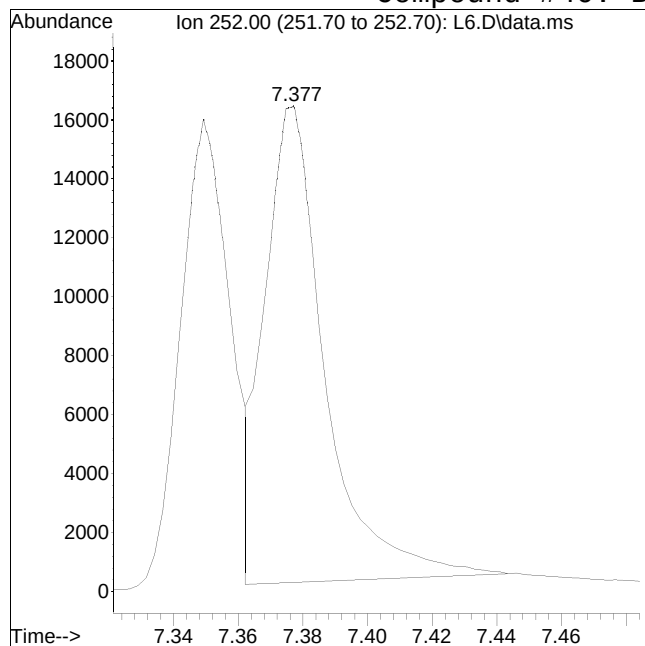


Manual Peak Response = 10577 M4

Manual Integration Report

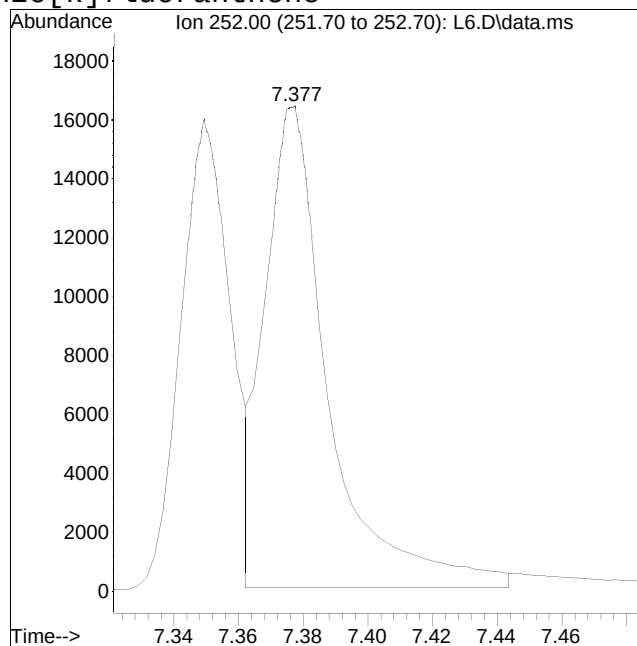
Data Path : I:\8270SIM\sv119\250625RVT01.M
Data File : L6.D
Date Inj'd : 6/25/2025 9:14 pm
Sample : IL6,32,,0.1 Lot# 11702
Method : SIM-RVT_250625_sv119.M
Operator : sv119:ljb
Instrument : SV119
Quant Date : 6/26/2025 6:28 pm

Compound #40: Benzo[k]fluoranthene



Original Peak Response = 20976

M4 = Poor automated baseline construction.

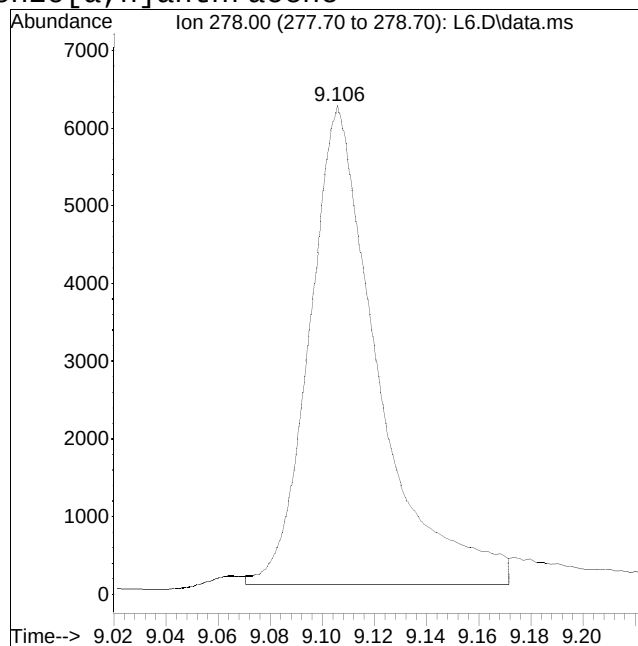
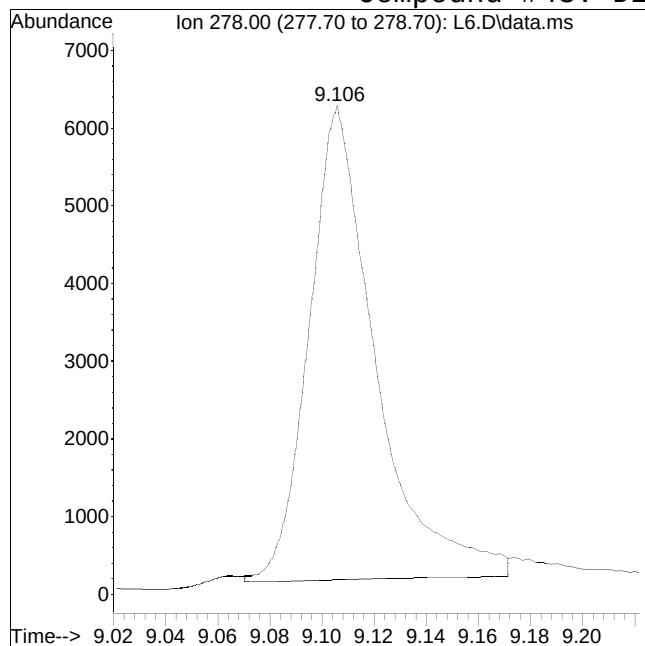


Manual Peak Response = 22388 M4

Manual Integration Report

Data Path : I:\8270SIM\sv119\250625RVT\data.ms
Data File : L6.D
Date Inj'd : 6/25/2025 9:14 pm
Sample : IL6,32,,0.1 Lot# 11702
Method : SIM-RVT_250625_sv119.M
Operator : sv119:ljg
Instrument : SV119
Quant Date : 6/26/2025 6:28 pm

Compound #43: Dibenzo[a,h]anthracene



Original Peak Response = 10873

Manual Peak Response = 11261 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250625RVTical\
 Data File : L5.D
 Acq On : 25 Jun 2025 09:31 pm
 Operator : sv119:ljj
 Sample : IL5,32,,0.04 Lot# 11703
 Misc : WG2084288,,ical
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 27 07:59:40 2025
 Quant Method : I:\8270SIM\sv119\250625RVTical\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 26 18:28:44 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\250625RVTical\L8.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.361	152	190905	4000.000	ng/ml	0.00
Standard Area 1 = 144221			Recovery	=	132.37%	
9) Naphthalene-d8	3.022	136	738628	4000.000	ng/ml	0.00
Standard Area 1 = 566700			Recovery	=	130.34%	
18) Acenaphthene-d10	3.994	164	425510	4000.000	ng/ml	0.00
Standard Area 1 = 346174			Recovery	=	122.92%	
23) Phenanthrene-d10	4.838	188	856950	4000.000	ng/ml	0.00
Standard Area 1 = 720898			Recovery	=	118.87%	
33) Chrysene-d12	6.443	240	1021721	4000.000	ng/ml	0.00
Standard Area 1 = 872550			Recovery	=	117.10%	
38) Perylene-d12	7.755	264	981066	4000.000	ng/ml	0.00
Standard Area 1 = 911236			Recovery	=	107.66%	
System Monitoring Compounds						
3) 2-Fluorophenol	1.763	112	2195	39.789	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	=	1.99%#	
4) Phenol-d6	2.160	99	2778	40.541	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	=	2.03%#	
8) Nitrobenzene-d5	2.638	82	2445	38.966	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	=	3.90%#	
14) 2-Fluorobiphenyl	3.614	172	6738	40.709	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	=	4.07%#	
22) 2,4,6-Tribromophenol	4.440	330	947M6	38.763	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	=	1.94%#	
32) 4-Terphenyl-d14	5.765	244	9901	41.792	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	=	4.18%#	
Target Compounds						
						Qvalue
2) N-Nitrosodimethylamine	1.308	74	1257M4	38.339	ng/mL	
5) Bis(2-chloroethyl)ether	2.218	93	2295	38.549	ng/ml	97
6) n-nitrosodi-n-propylamine	2.557	70	1742	39.275	ng/ml	99
7) Hexachloroethane	2.621	117	1036	42.267	ng/ml	99
10) Naphthalene	3.031	128	7809	38.929	ng/ml	99
11) Hexachlorobutadiene	3.105	225	1516	40.288	ng/ml	100
12) 2-Methylnaphthalene	3.411	142	5020	39.289	ng/ml	100
13) 1-Methylnaphthalene	3.466	142	5169	40.000	ng/ml	98
15) 2-Chloronaphthalene	3.681	162	5666	40.725	ng/ml	97
16) 2,6-Dinitrotoluene	3.868	165	1060	35.332	ng/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250625RVTical\
 Data File : L5.D
 Acq On : 25 Jun 2025 09:31 pm
 Operator : sv119:ljb
 Sample : IL5,32,,0.04 Lot# 11703
 Misc : WG2084288,,ical
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 27 07:59:40 2025
 Quant Method : I:\8270SIM\sv119\250625RVTical\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 26 18:28:44 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\250625RVTical\L8.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
17)	Acenaphthylene	3.912	152	9545	40.841	ng/ml	100
19)	Acenaphthene	4.012	153	5708	40.514	ng/ml	100
20)	2,4-Dinitrotoluene	4.097	165	1346	34.846	ng/ml	97
21)	Fluorene	4.303	166	6859	40.397	ng/ml	99
24)	4,6-Dinitro-o-cresol	4.328	198	685	50.270	ng/ml	95
25)	Hexachlorobenzene	4.622	284	2483	41.100	ng/ml	97
26)	Pentachlorophenol	4.732	266	987M6	42.046	ng/ml	
27)	Phenanthrene	4.851	178	10400	40.123	ng/ml	99
28)	Anthracene	4.879	178	10703	40.889	ng/ml	99
29)	Fluoranthene	5.539	202	13657	40.001	ng/ml	99
30)	Pyrene	5.673	202	14561	40.527	ng/ml	99
31)	Benzidine	5.613	184	133	128.458	ng/mL#	1
34)	Benzo[a]anthracene	6.435	228	15989	38.376	ng/ml	95
35)	3,3'-Dichlorobenzidine	6.414	252	4309	31.597	ng/ml	99
36)	Chrysene	6.460	228	13469	40.824	ng/ml	99
37)	Bis(2-ethylhexyl)phtha...	6.457	149	6340M6	34.669	ng/ml	
39)	Benzo[b]fluoranthene	7.346	252	10087	37.209	ng/ml	95
40)	Benzo[k]fluoranthene	7.371	252	12317M4	39.285	ng/ml	
41)	Benzo[a]pyrene	7.681	252	9428	36.605	ng/ml	100
42)	Indeno[1,2,3-cd]pyrene	9.066	276	6712	33.617	ng/ml	99
43)	Dibenzo[a,h]anthracene	9.102	278	6479M6	32.288	ng/ml	
44)	Benzo[g,h,i]perylene	9.429	276	8668	36.234	ng/ml	99

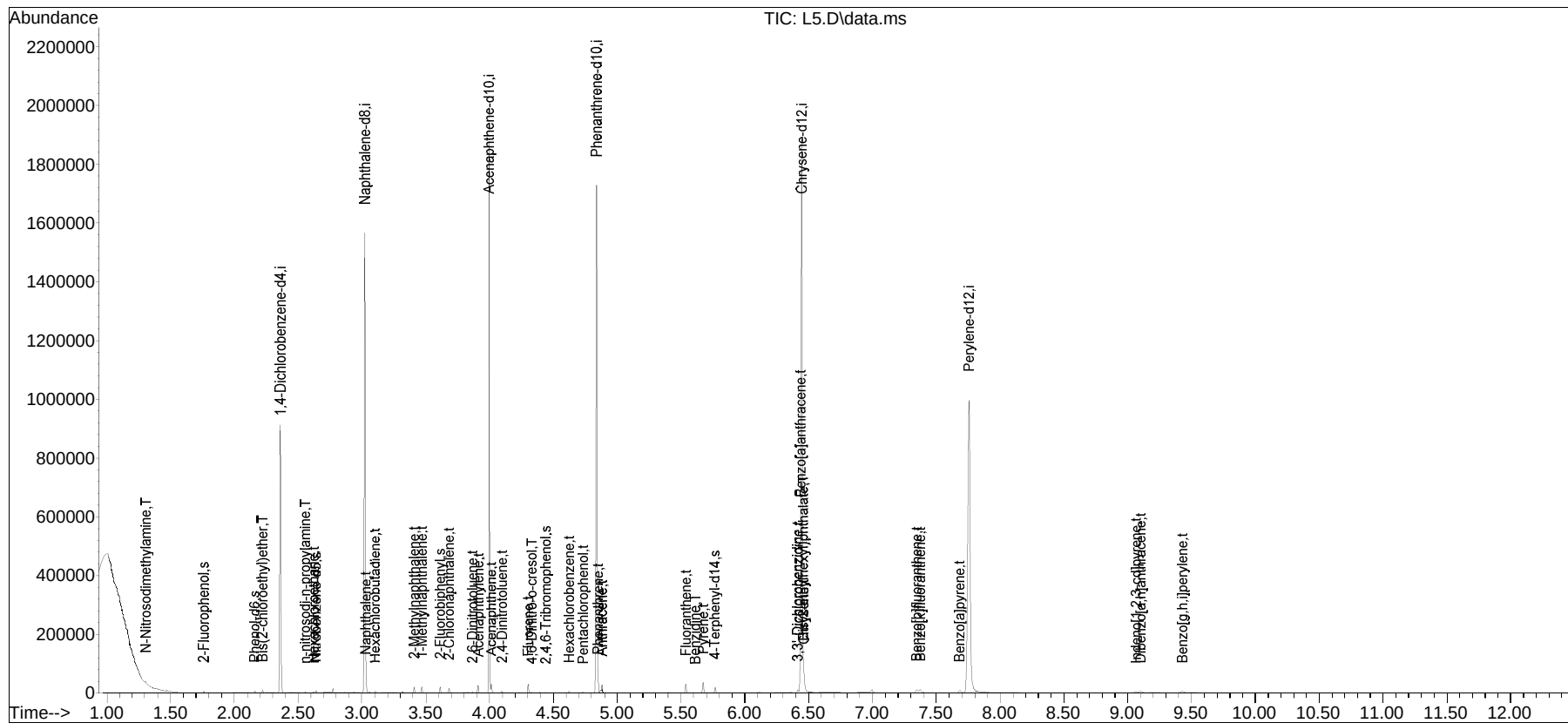
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

Data Path : I:\8270SIM\sv119\250625RVTical\
Data File : L5.D
Acq On : 25 Jun 2025 09:31 pm
Operator : sv119:ljg
Sample : IL5,32,,0.04 Lot# 11703
Misc : WG2084288,,ical
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 27 07:59:40 2025
Quant Method : I:\8270SIM\sv119\250625RVTical\SIM-RVT_250625_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 26 18:28:44 2025
Response via : Initial Calibration

Sub List : Default - All compounds listedical\L8.D•

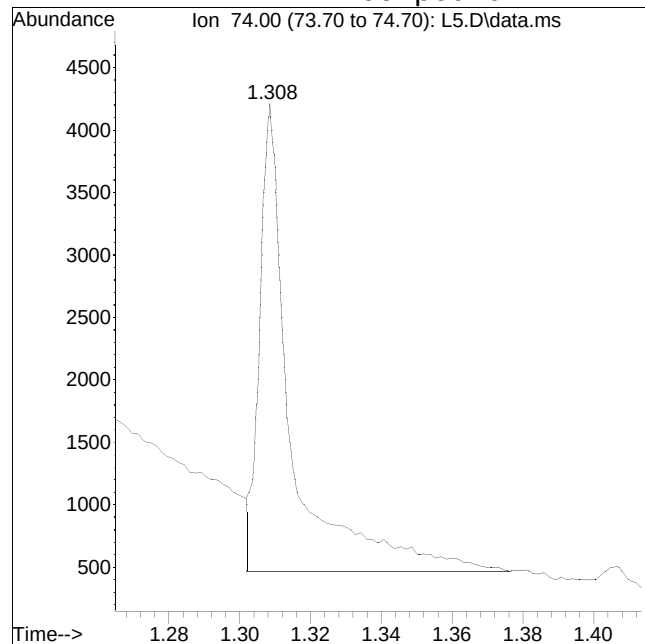


Manual Integration Report

Data Path : I:\8270SIM\sv119\250625RVT\data
Data File : L5.D
Date Inj'd : 6/25/2025 9:31 pm
Sample : IL5,32,,0.04 Lot# 11703

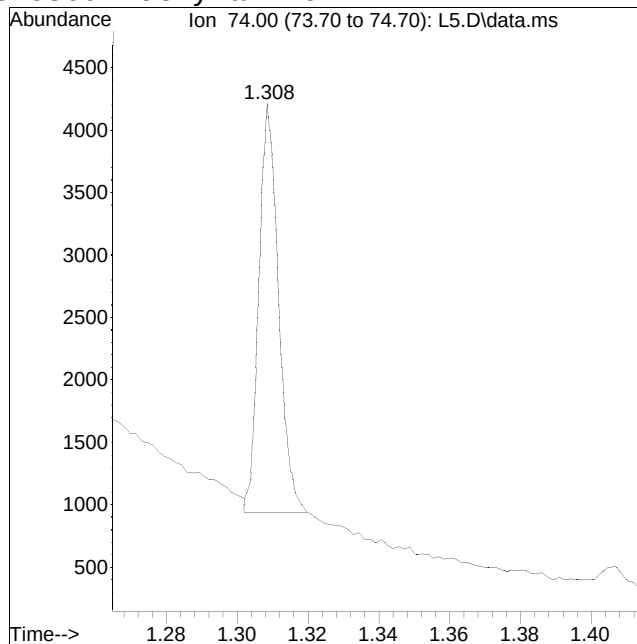
Method : SIM-RVT_250625_sv119.M
Operator : sv119:ljg
Instrument : SV119
Quant Date : 6/26/2025 6:28 pm

Compound #2: N-Nitrosodimethylamine



Original Peak Response = 2404

M4 = Poor automated baseline construction.

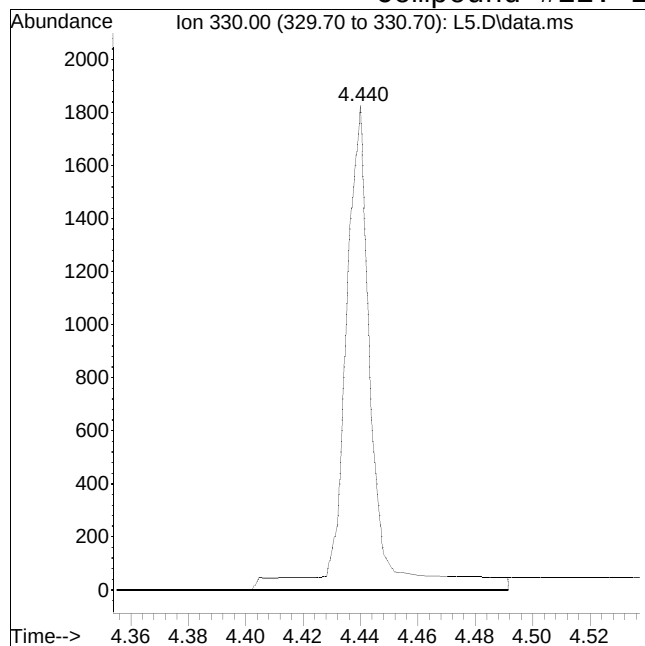


Manual Peak Response = 1257 M4

Manual Integration Report

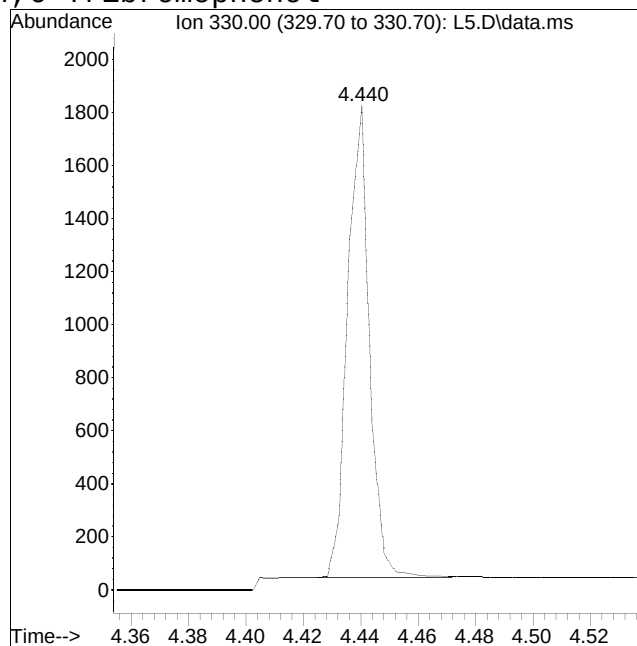
Data Path : I:\8270SIM\sv119\250625RVT\Method : SIM-RVT_250625_sv119.M
Data File : L5.D Operator : sv119:ljg
Date Inj'd : 6/25/2025 9:31 pm Instrument : SV119
Sample : IL5,32,,0.04 Lot# 11703 Quant Date : 6/26/2025 6:28 pm

Compound #22: 2,4,6-Tribromophenol



Original Peak Response = 1154

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

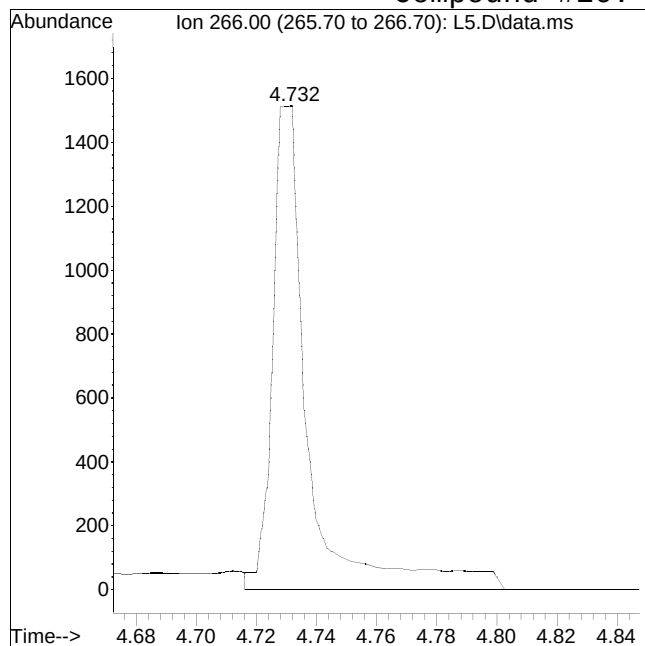


Manual Peak Response = 947 M6

Manual Integration Report

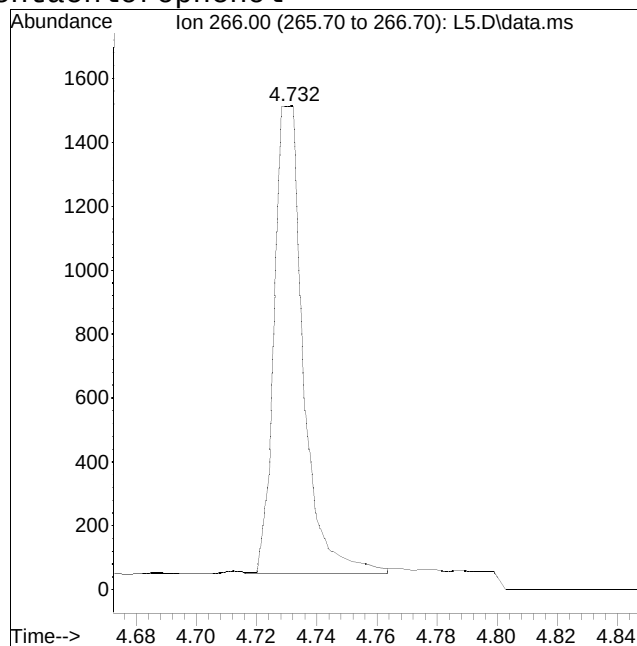
Data Path : I:\8270SIM\sv119\250625RVT_QM119.M
Data File : L5.D
Date Inj'd : 6/25/2025 9:31 pm
Sample : IL5,32,,0.04 Lot# 11703
Method : SIM-RVT_250625_sv119.M
Operator : sv119:ljl
Instrument : SV119
Quant Date : 6/26/2025 6:28 pm

Compound #26: Pentachlorophenol



Original Peak Response = 1212

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

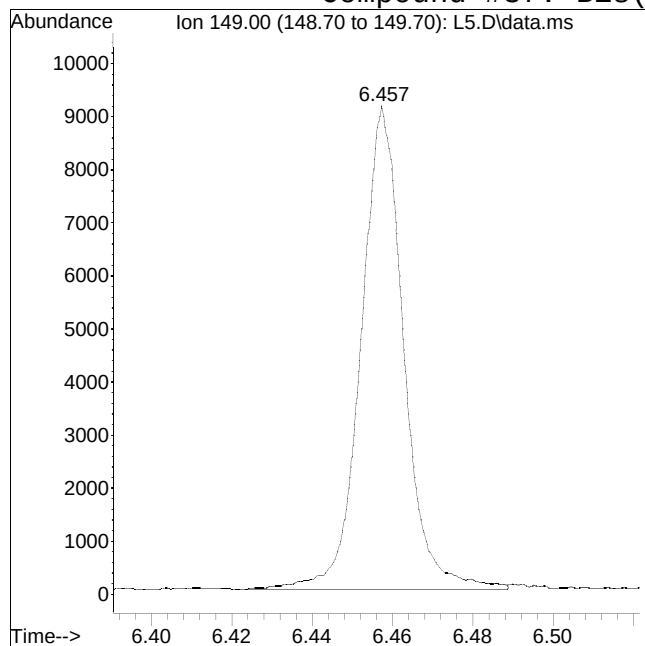


Manual Peak Response = 987 M6

Manual Integration Report

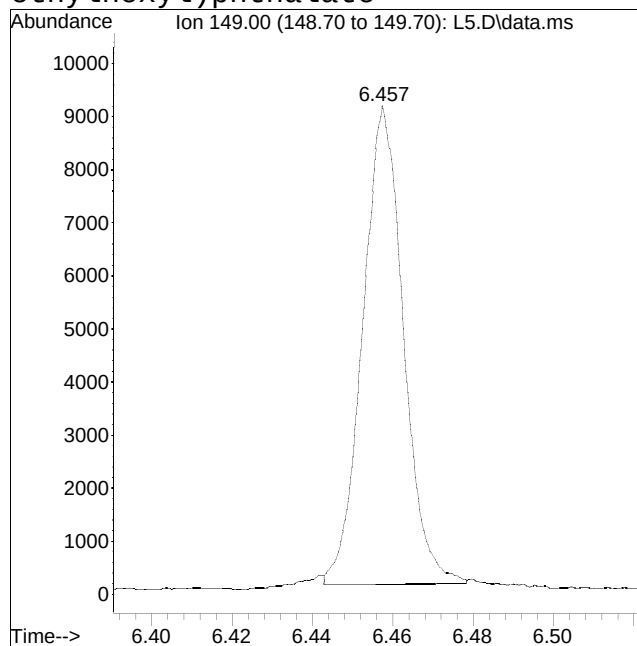
Data Path : I:\8270SIM\sv119\250625RVT\Method : SIM-RVT_250625_sv119.M
Data File : L5.D Operator : sv119:ljg
Date Inj'd : 6/25/2025 9:31 pm Instrument : SV119
Sample : IL5,32,,0.04 Lot# 11703 Quant Date : 6/26/2025 6:28 pm

Compound #37: Bis(2-ethylhexyl)phthalate



Original Peak Response = 6763

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

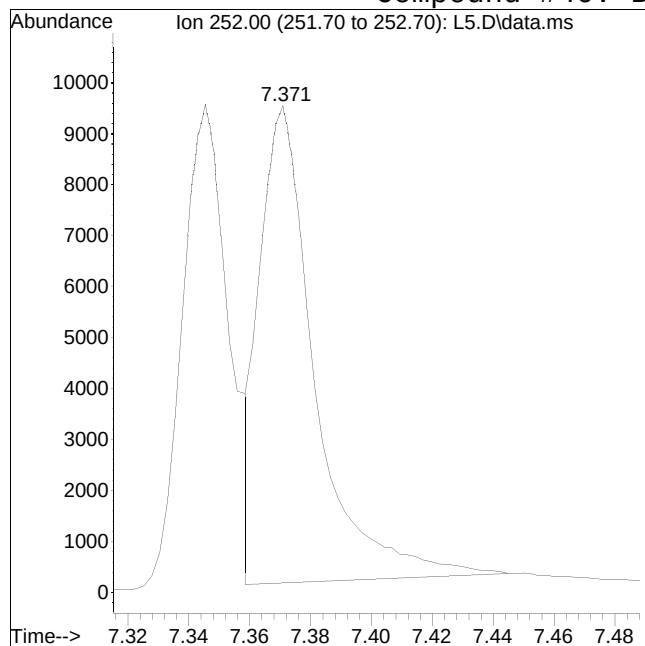


Manual Peak Response = 6340 M6

Manual Integration Report

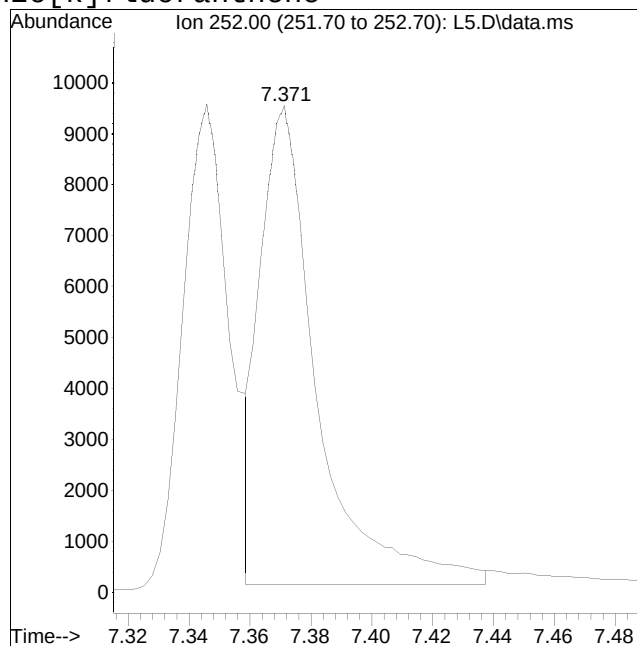
Data Path : I:\8270SIM\sv119\250625RVT01.M
Data File : L5.D
Date Inj'd : 6/25/2025 9:31 pm
Sample : IL5,32,,0.04 Lot# 11703
Method : SIM-RVT_250625_sv119.M
Operator : sv119:ljg
Instrument : SV119
Quant Date : 6/26/2025 6:28 pm

Compound #40: Benzo[k]fluoranthene



Original Peak Response = 11881

M4 = Poor automated baseline construction.

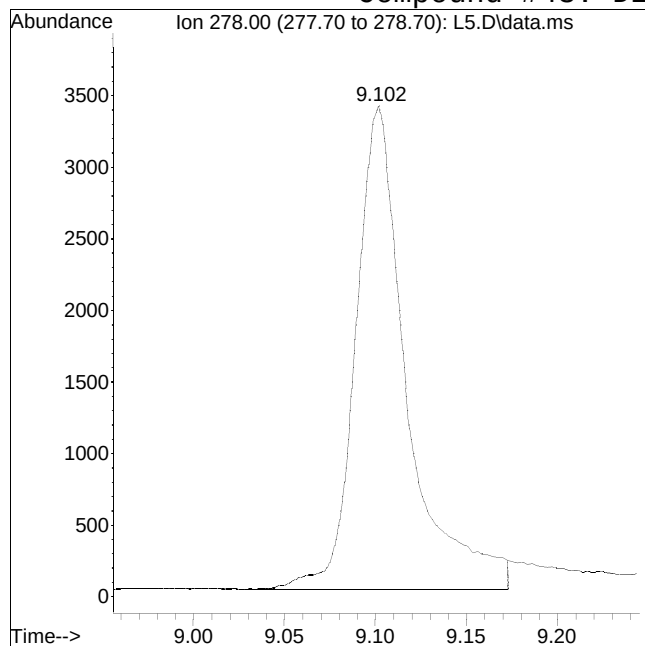


Manual Peak Response = 12317 M4

Manual Integration Report

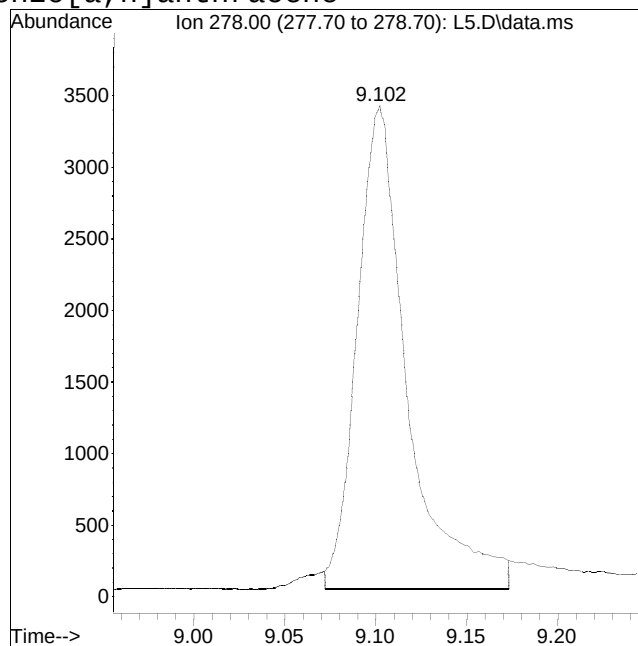
Data Path : I:\8270SIM\sv119\250625RVT
Data File : L5.D Operator : sv119:ljb
Date Inj'd : 6/25/2025 9:31 pm Instrument : SV119
Sample : IL5,32,,0.04 Lot# 11703 Quant Date : 6/26/2025 6:28 pm

Compound #43: Dibenzo[a,h]anthracene



Original Peak Response = 6631

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 6479 M6

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250625RVTical\
 Data File : L4.D
 Acq On : 25 Jun 2025 09:48 pm
 Operator : sv119:ljg
 Sample : IL4,32,,0.01 Lot# 11704
 Misc : WG2084288,,ical
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 27 08:23:16 2025
 Quant Method : I:\8270SIM\sv119\250625RVTical\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 26 18:28:40 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\250625RVTical\L8.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.360	152	177043	4000.000	ng/ml	0.00
Standard Area 1 = 144221			Recovery	=	122.76%	
9) Naphthalene-d8	3.022	136	668935	4000.000	ng/ml	0.00
Standard Area 1 = 566700			Recovery	=	118.04%	
18) Acenaphthene-d10	3.996	164	399165	4000.000	ng/ml	0.00
Standard Area 1 = 346174			Recovery	=	115.31%	
23) Phenanthrene-d10	4.839	188	806503	4000.000	ng/ml	0.00
Standard Area 1 = 720898			Recovery	=	111.87%	
33) Chrysene-d12	6.443	240	1014615	4000.000	ng/ml	0.00
Standard Area 1 = 872550			Recovery	=	116.28%	
38) Perylene-d12	7.756	264	963805	4000.000	ng/ml	0.00
Standard Area 1 = 911236			Recovery	=	105.77%	
System Monitoring Compounds						
3) 2-Fluorophenol	1.763	112	503	9.832	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	=	0.49%#	
4) Phenol-d6	2.161	99	639	10.056	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	=	0.50%#	
8) Nitrobenzene-d5	2.638	82	571	9.813	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	=	0.98%#	
14) 2-Fluorobiphenyl	3.614	172	1536	10.247	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	=	1.02%#	
22) 2,4,6-Tribromophenol	4.440	330	225M7	9.818	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	=	0.49%#	
32) 4-Terphenyl-d14	5.764	244	2352	10.549	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	=	1.05%#	
Target Compounds						
2) N-Nitrosodimethylamine	0.000		0	N.D.	d	
5) Bis(2-chloroethyl)ether	2.220	93	575	10.415	ng/ml	94
6) n-nitrosodi-n-propylamine	2.557	70	399	9.700	ng/ml#	91
7) Hexachloroethane	2.622	117	238	10.470	ng/ml	100
10) Naphthalene	3.034	128	1838	10.117	ng/ml#	95
11) Hexachlorobutadiene	3.105	225	349	10.241	ng/ml	99
12) 2-Methylnaphthalene	3.410	142	1145	9.895	ng/ml	99
13) 1-Methylnaphthalene	3.466	142	1187	10.143	ng/ml	99
15) 2-Chloronaphthalene	3.681	162	1289	10.230	ng/ml	96
16) 2,6-Dinitrotoluene	3.868	165	282	10.379	ng/ml	92

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250625RVTical\
 Data File : L4.D
 Acq On : 25 Jun 2025 09:48 pm
 Operator : sv119:ljb
 Sample : IL4,32,,0.01 Lot# 11704
 Misc : WG2084288,,ical
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 27 08:23:16 2025
 Quant Method : I:\8270SIM\sv119\250625RVTical\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 26 18:28:40 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\250625RVTical\L8.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
17)	Acenaphthylene	3.912	152	2128	10.054	ng/ml	97
19)	Acenaphthene	4.012	153	1353	10.237	ng/ml	93
20)	2,4-Dinitrotoluene	4.097	165	320	8.831	ng/ml	99
21)	Fluorene	4.303	166	1625	10.202	ng/ml	99
24)	4,6-Dinitro-o-cresol	4.330	198	152	26.770	ng/ml	99
25)	Hexachlorobenzene	4.621	284	593	10.430	ng/ml	99
26)	Pentachlorophenol	4.732	266	301M6	12.398	ng/ml	
27)	Phenanthrene	4.851	178	2503	10.260	ng/ml	98
28)	Anthracene	4.879	178	2563	10.404	ng/ml	100
29)	Fluoranthene	5.539	202	3246	10.102	ng/ml	98
30)	Pyrene	5.673	202	3495	10.336	ng/ml	99
31)	Benzidine	5.613	184	80M6	128.229	ng/mL	
34)	Benzo[a]anthracene	6.439	228	6002	9.556	ng/ml#	87
35)	3,3'-Dichlorobenzidine	6.414	252	789	5.826	ng/ml#	97
36)	Chrysene	6.460	228	3362	10.261	ng/ml	97
37)	Bis(2-ethylhexyl)phtha...	6.457	149	1739M6	9.576	ng/ml	
39)	Benzo[b]fluoranthene	7.347	252	2436	9.147	ng/ml	97
40)	Benzo[k]fluoranthene	7.372	252	2900M6	9.415	ng/ml	
41)	Benzo[a]pyrene	7.680	252	2161	8.541	ng/ml	100
42)	Indeno[1,2,3-cd]pyrene	9.062	276	1542	10.371	ng/ml	100
43)	Dibenzo[a,h]anthracene	9.098	278	1387	10.359	ng/ml	96
44)	Benzo[g,h,i]perylene	9.428	276	1955	8.319	ng/ml	100

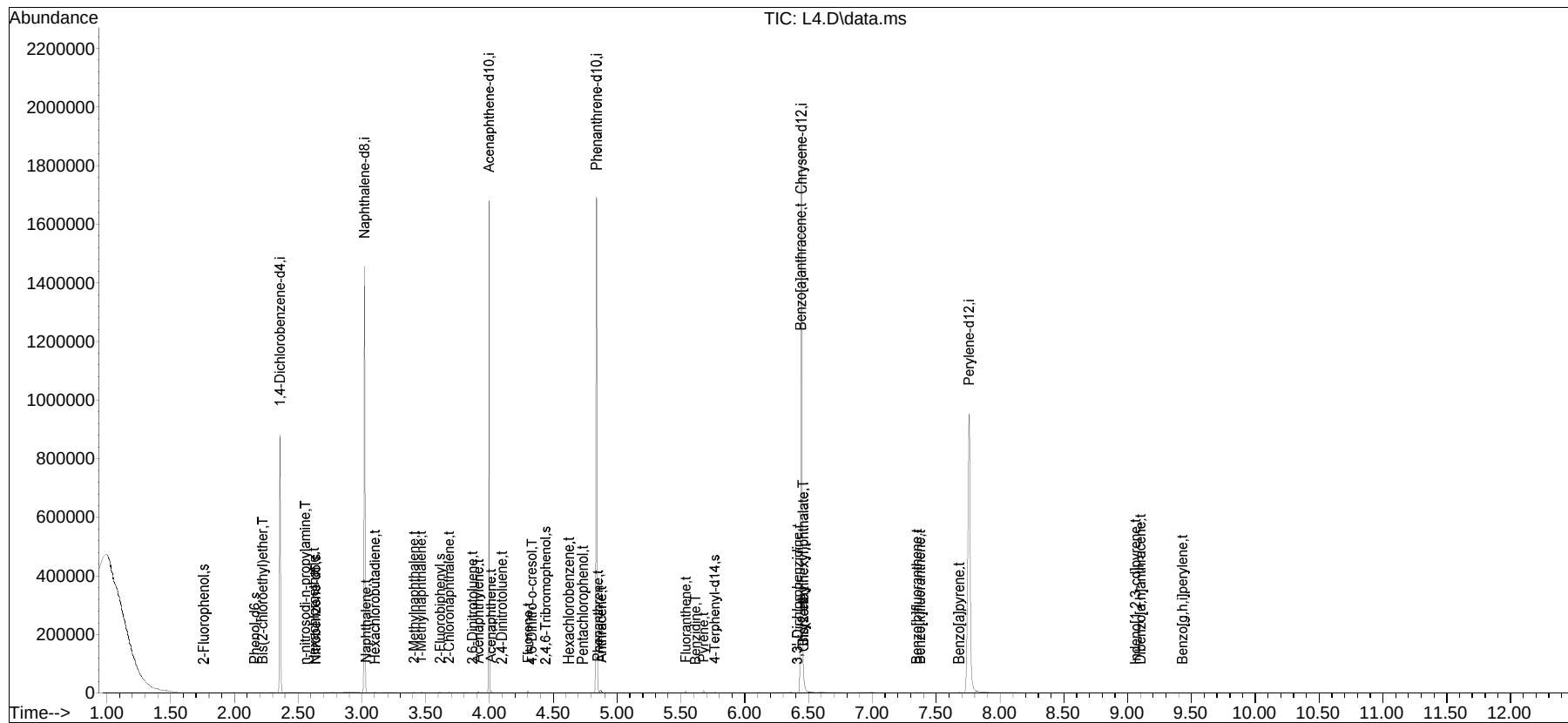
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

```
Data Path : I:\8270SIM\sv119\250625RVTical\
Data File : L4.D
Acq On    : 25 Jun 2025 09:48 pm
Operator  : sv119:ljg
Sample    : IL4,32,,0.01 Lot# 11704
Misc      : WG2084288,,ical
ALS Vial  : 7 Sample Multiplier: 1
```

Quant Time: Jun 27 08:23:16 2025
Quant Method : I:\8270SIM\sv119\250625RVTical\SIM-RVT_250625_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 26 18:28:40 2025
Response via : Initial Calibration

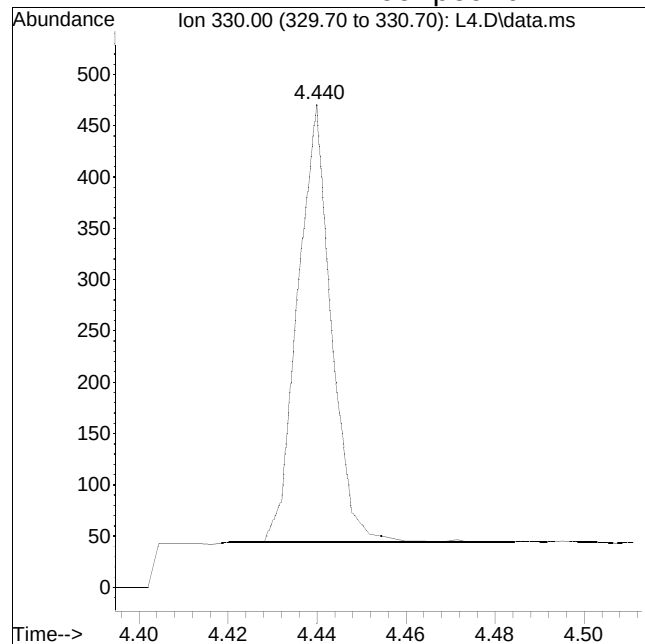
Sub List : Default - All compounds listedical\L8.D•



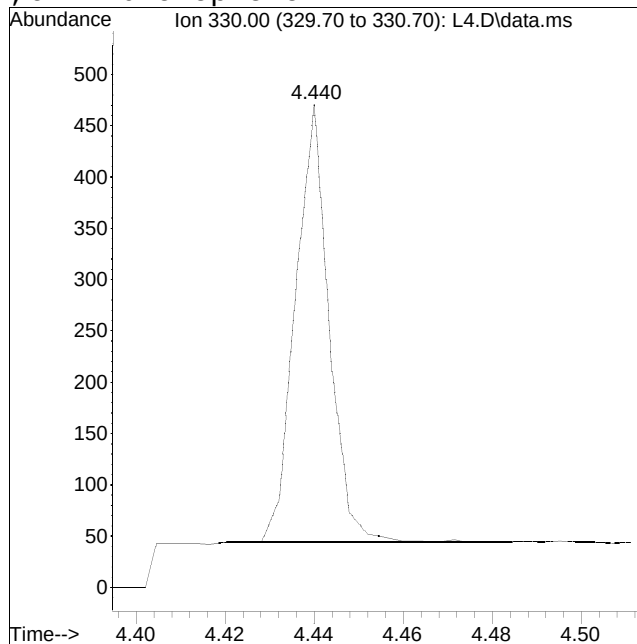
Manual Integration Report

Data Path : I:\8270SIM\sv119\250625RVTQMethod : SIM-RVT_250625_sv119.M
Data File : L4.DOperator : sv119:ljpg
Date Inj'd : 6/25/2025 9:48 pmInstrument : SV119
Sample : IL4,32,,0.01 Lot# 11704Quant Date : 6/26/2025 6:28 pm

Compound #22: 2,4,6-Tribromophenol



Original Peak Response = 225



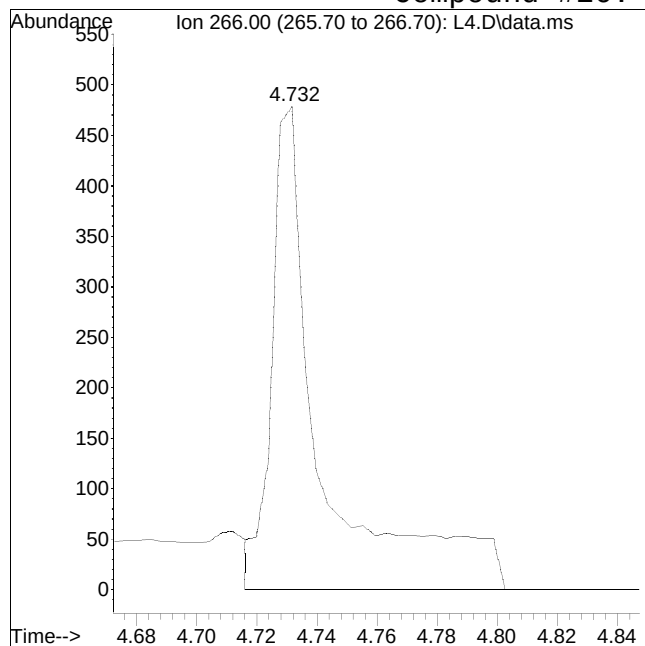
Manual Peak Response = 225 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

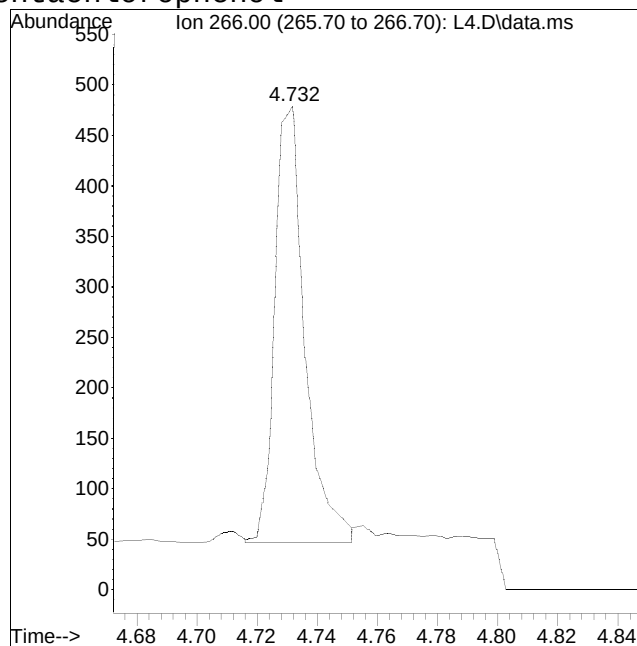
Data Path : I:\8270SIM\sv119\250625RVT01.M
Data File : L4.D
Date Inj'd : 6/25/2025 9:48 pm
Sample : IL4,32,,0.01 Lot# 11704
Method : SIM-RVT_250625_sv119.M
Operator : sv119:ljl
Instrument : SV119
Quant Date : 6/26/2025 6:28 pm

Compound #26: Pentachlorophenol



Original Peak Response = 535

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

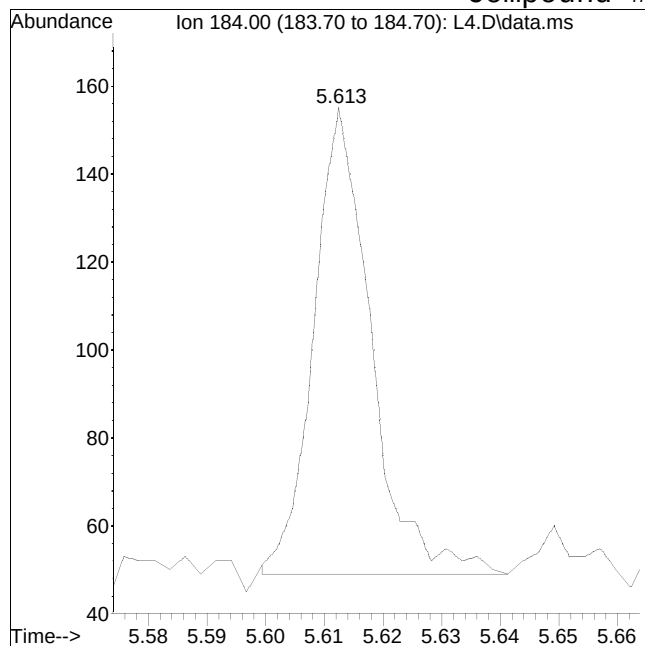


Manual Peak Response = 301 M6

Manual Integration Report

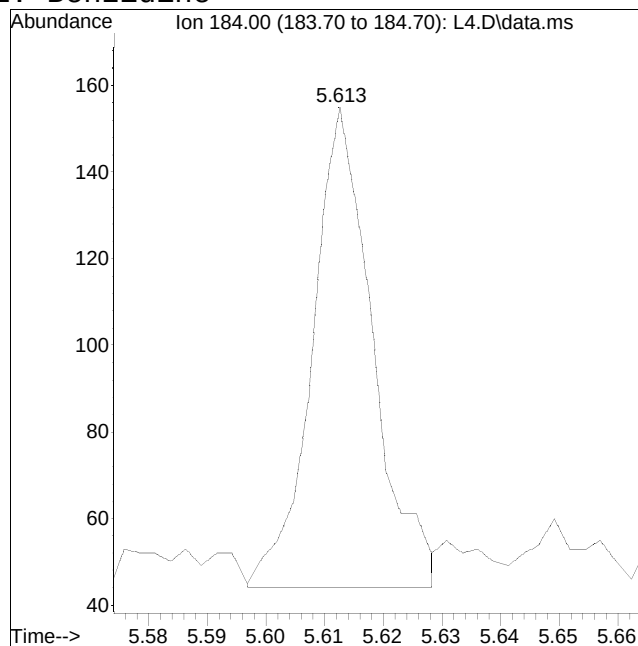
Data Path : I:\8270SIM\sv119\250625RVT01.M
Data File : L4.D
Date Inj'd : 6/25/2025 9:48 pm
Sample : IL4,32,,0.01 Lot# 11704
Method : SIM-RVT_250625_sv119.M
Operator : sv119:ljj
Instrument : SV119
Quant Date : 6/26/2025 6:28 pm

Compound #31: Benzidine



Original Peak Response = 72

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

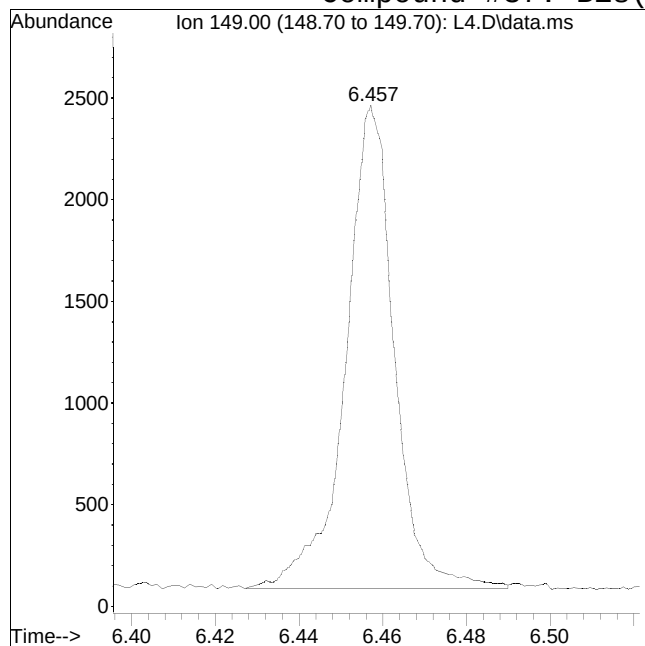


Manual Peak Response = 80 M6

Manual Integration Report

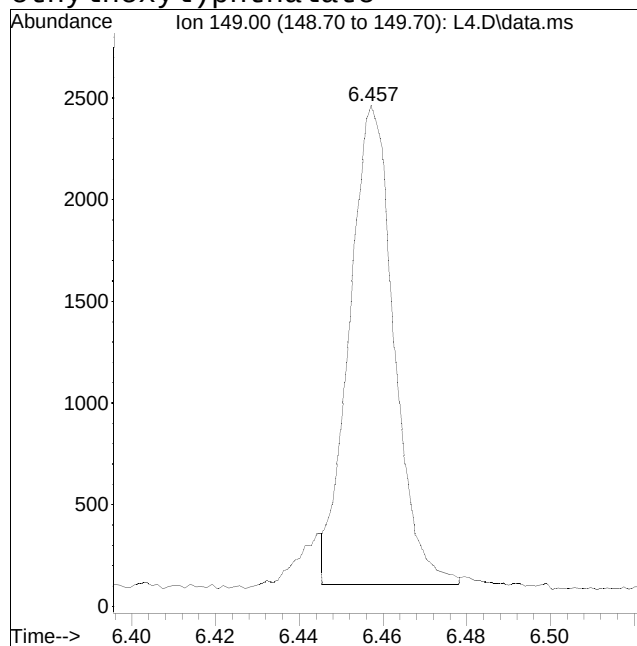
Data Path : I:\8270SIM\sv119\250625RVT\Method : SIM-RVT_250625_sv119.M
Data File : L4.D Operator : sv119:ljg
Date Inj'd : 6/25/2025 9:48 pm Instrument : SV119
Sample : IL4,32,,0.01 Lot# 11704 Quant Date : 6/26/2025 6:28 pm

Compound #37: Bis(2-ethylhexyl)phthalate



Original Peak Response = 1917

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

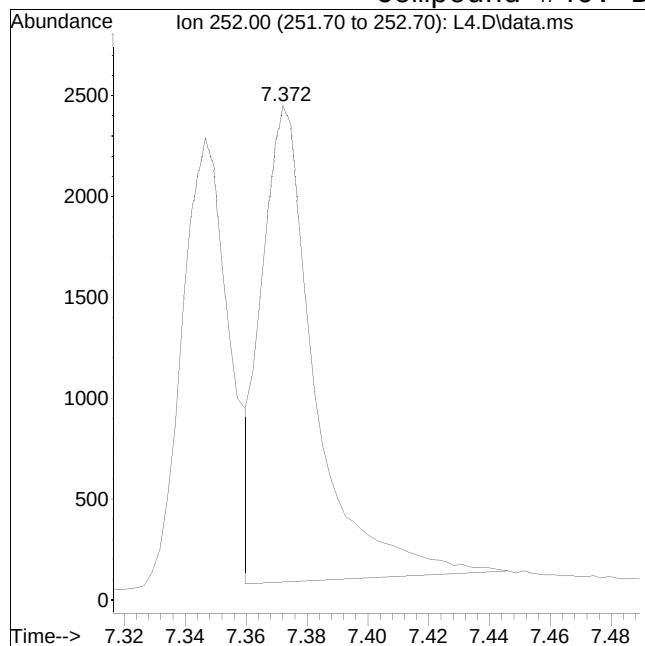


Manual Peak Response = 1739 M6

Manual Integration Report

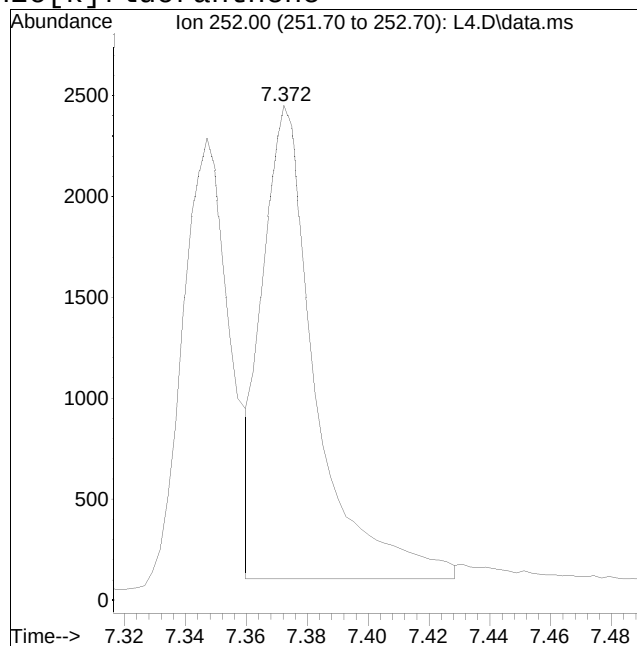
Data Path : I:\8270SIM\sv119\250625RVT\data
Data File : L4.D
Date Inj'd : 6/25/2025 9:48 pm
Sample : IL4,32,,0.01 Lot# 11704
Method : SIM-RVT_250625_sv119.M
Operator : sv119:ljl
Instrument : SV119
Quant Date : 6/26/2025 6:28 pm

Compound #40: Benzo[k]fluoranthene



Original Peak Response = 2917

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 2900 M6

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250625RVTical\
 Data File : L3.D
 Acq On : 25 Jun 2025 10:04 pm
 Operator : sv119:ljb
 Sample : IL3,32,,0.005 Lot# 11705
 Misc : WG2084288,,ical
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 26 18:27:39 2025
 Quant Method : I:\8270SIM\sv119\250625RVTical\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 26 18:28:35 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\250625RVTical\L8.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.360	152	190625	4000.000	ng/ml	0.00
Standard Area 1 = 144221			Recovery	=	132.18%	
9) Naphthalene-d8	3.022	136	733189	4000.000	ng/ml	0.00
Standard Area 1 = 566700			Recovery	=	129.38%	
18) Acenaphthene-d10	3.996	164	411422	4000.000	ng/ml	0.00
Standard Area 1 = 346174			Recovery	=	118.85%	
23) Phenanthrene-d10	4.839	188	823087	4000.000	ng/ml	0.00
Standard Area 1 = 720898			Recovery	=	114.18%	
33) Chrysene-d12	6.443	240	994584	4000.000	ng/ml	0.00
Standard Area 1 = 872550			Recovery	=	113.99%	
38) Perylene-d12	7.758	264	945800	4000.000	ng/ml	0.00
Standard Area 1 = 911236			Recovery	=	103.79%	
System Monitoring Compounds						
3) 2-Fluorophenol	1.763	112	274	4.974	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	=	0.25%#	
4) Phenol-d6	2.161	99	345	5.042	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	=	0.25%#	
8) Nitrobenzene-d5	2.639	82	347	5.538	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	=	0.55%#	
14) 2-Fluorobiphenyl	3.614	172	829	5.046	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	=	0.50%#	
22) 2,4,6-Tribromophenol	4.440	330	119M6	5.038	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	=	0.25%#	
32) 4-Terphenyl-d14	5.765	244	1178	5.177	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	=	0.52%#	
Target Compounds						
2) N-Nitrosodimethylamine	0.000		0	N.D.		
5) Bis(2-chloroethyl)ether	2.220	93	318	5.349	ng/ml	97
6) n-nitrosodi-n-propylamine	2.558	70	252	5.690	ng/ml	98
7) Hexachloroethane	2.622	117	131	5.352	ng/ml	98
10) Naphthalene	3.033	128	1043M7	5.238	ng/ml	
11) Hexachlorobutadiene	3.105	225	185	4.953	ng/ml	90
12) 2-Methylnaphthalene	3.410	142	641	5.054	ng/ml	99
13) 1-Methylnaphthalene	3.465	142	665	5.184	ng/ml	99
15) 2-Chloronaphthalene	3.681	162	719	5.206	ng/ml	96
16) 2,6-Dinitrotoluene	3.868	165	159	5.339	ng/ml	90

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250625RVTical\
 Data File : L3.D
 Acq On : 25 Jun 2025 10:04 pm
 Operator : sv119:ljb
 Sample : IL3,32,,0.005 Lot# 11705
 Misc : WG2084288,,ical
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 26 18:27:39 2025
 Quant Method : I:\8270SIM\sv119\250625RVTical\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 26 18:28:35 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\250625RVTical\L8.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
17)	Acenaphthylene	3.912	152	1134	4.888	ng/ml	99
19)	Acenaphthene	4.011	153	690	5.065	ng/ml	94
20)	2,4-Dinitrotoluene	4.097	165	175	4.686	ng/ml	96
21)	Fluorene	4.302	166	829	5.050	ng/ml	99
24)	4,6-Dinitro-o-cresol	4.330	198	67M7	22.651	ng/ml	
25)	Hexachlorobenzene	4.621	284	294	5.067	ng/ml	97
26)	Pentachlorophenol	4.732	266	203	7.561	ng/ml	95
27)	Phenanthrene	4.850	178	1297	5.210	ng/ml#	92
28)	Anthracene	4.879	178	1280	5.091	ng/ml	98
29)	Fluoranthene	5.540	202	1671	5.096	ng/ml	99
30)	Pyrene	5.673	202	1765	5.115	ng/ml	99
31)	Benzidine	0.000		0	N.D.		
34)	Benzo[a]anthracene	6.443	228	4288	4.806	ng/ml#	84
35)	3,3'-Dichlorobenzidine	6.414	252	320	2.411	ng/ml#	98
36)	Chrysene	6.460	228	1567	4.879	ng/ml	99
37)	Bis(2-ethylhexyl)phtha...	6.458	149	987M6	5.544	ng/ml	
39)	Benzo[b]fluoranthene	7.346	252	1083	4.144	ng/ml	99
40)	Benzo[k]fluoranthene	7.374	252	1376M4	4.552	ng/ml	
41)	Benzo[a]pyrene	7.684	252	1016	4.092	ng/ml	99
42)	Indeno[1,2,3-cd]pyrene	9.061	276	757	6.820	ng/ml	98
43)	Dibenzo[a,h]anthracene	9.105	278	646	7.147	ng/ml	94
44)	Benzo[g,h,i]perylene	9.427	276	923	4.002	ng/ml#	91

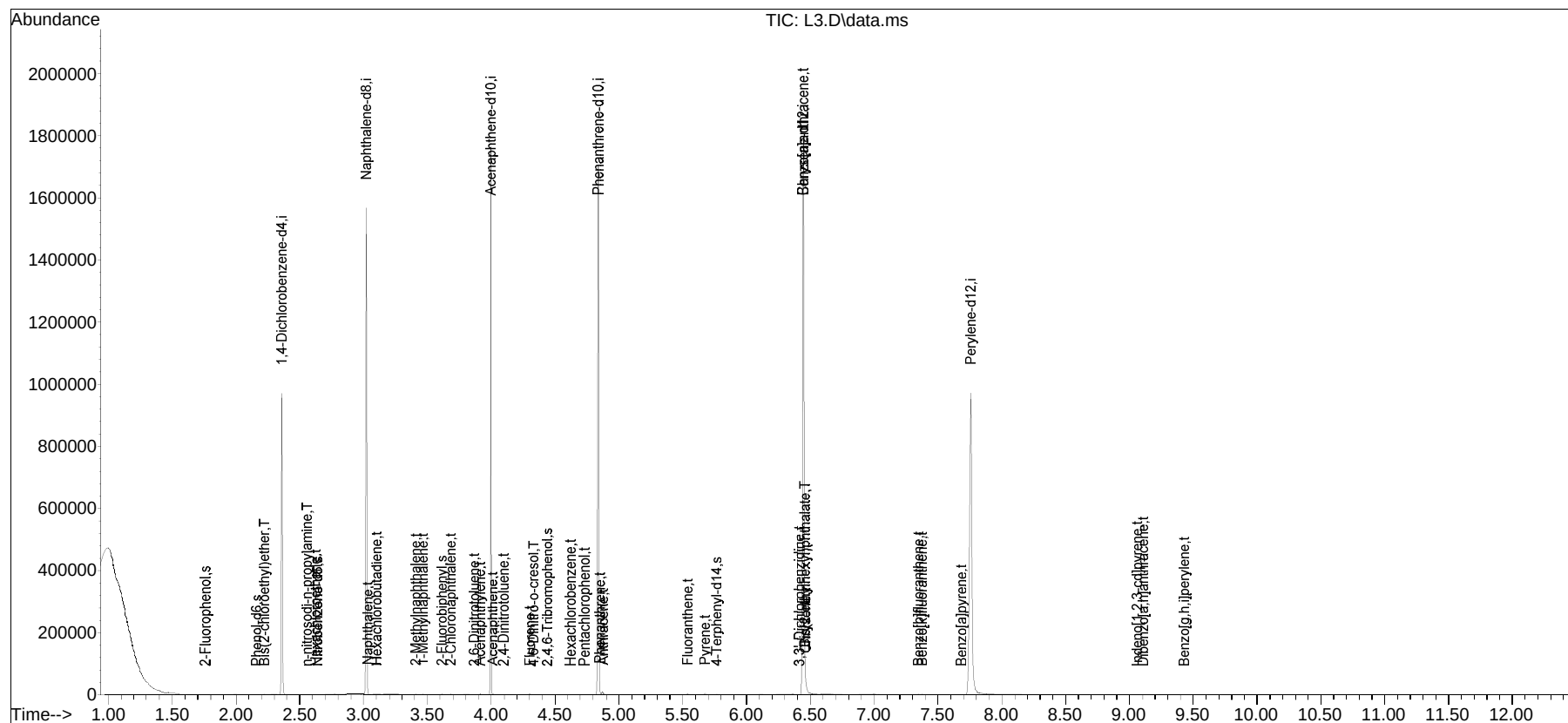
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250625RVTical\
 Data File : L3.D
 Acq On : 25 Jun 2025 10:04 pm
 Operator : sv119:ljg
 Sample : IL3,32,,0.005 Lot# 11705
 Misc : WG2084288,,ical
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 26 18:27:39 2025
 Quant Method : I:\8270SIM\sv119\250625RVTical\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 26 18:28:35 2025
 Response via : Initial Calibration

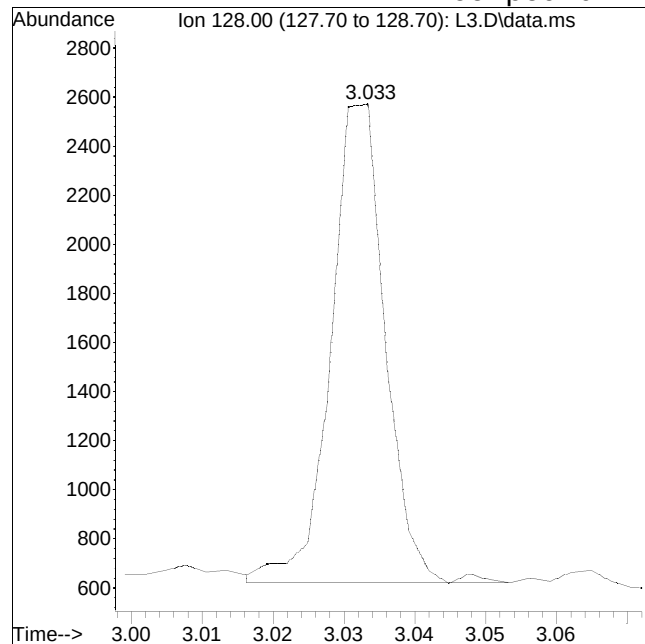
Sub List : Default - All compounds listedical\L8.D•



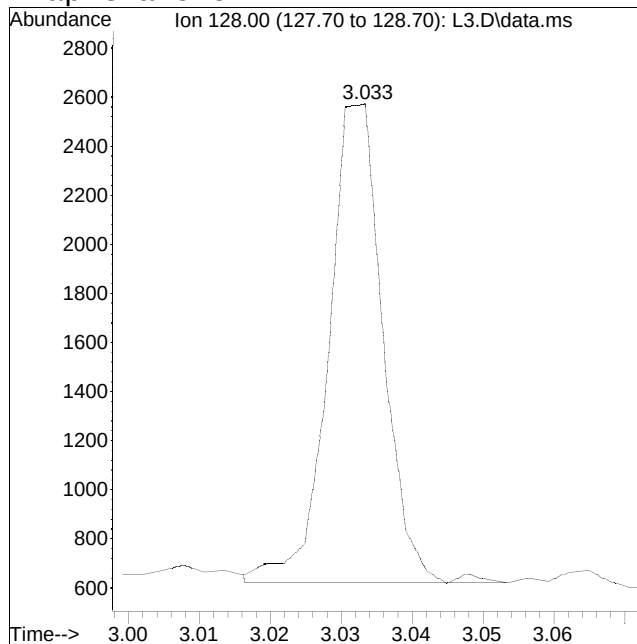
Manual Integration Report

Data Path : I:\8270SIM\sv119\250625RVT\data
Data File : L3.D
Date Inj'd : 6/25/2025 10:04 pm
Sample : IL3,32,,0.005 Lot# 11705
Method : SIM-RVT_250625_sv119.M
Operator : sv119:ljl
Instrument : SV119
Quant Date : 6/26/2025 6:28 pm

Compound #10: Naphthalene



Original Peak Response = 1043



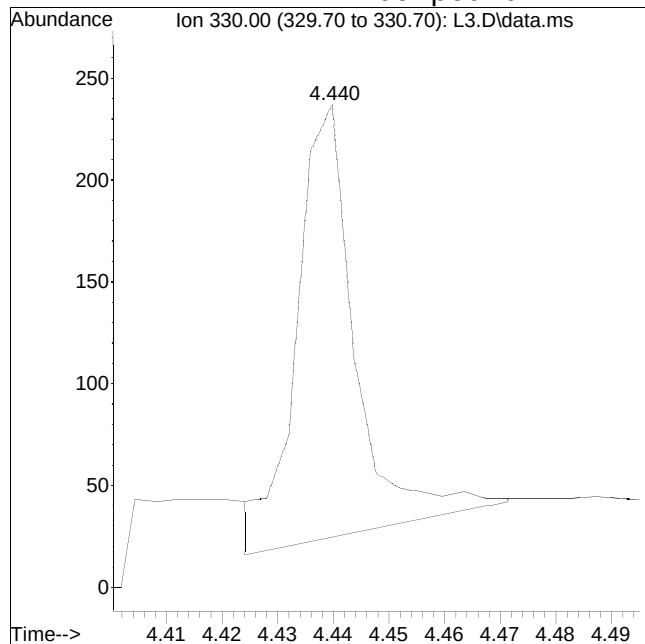
Manual Peak Response = 1043 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

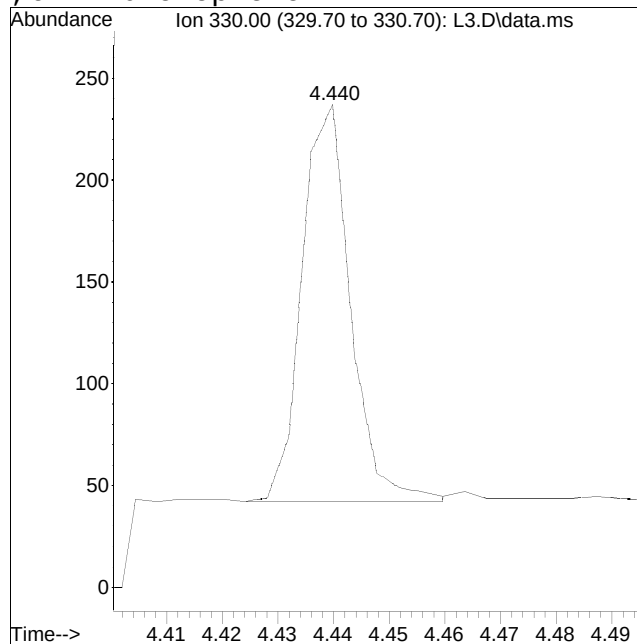
Data Path : I:\8270SIM\sv119\250625RVT01.M
Data File : L3.D
Date Inj'd : 6/25/2025 10:04 pm
Sample : IL3,32,,0.005 Lot# 11705
Method : SIM-RVT_250625_sv119.M
Operator : sv119:ljb
Instrument : SV119
Quant Date : 6/26/2025 6:28 pm

Compound #22: 2,4,6-Tribromophenol



Original Peak Response = 158

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

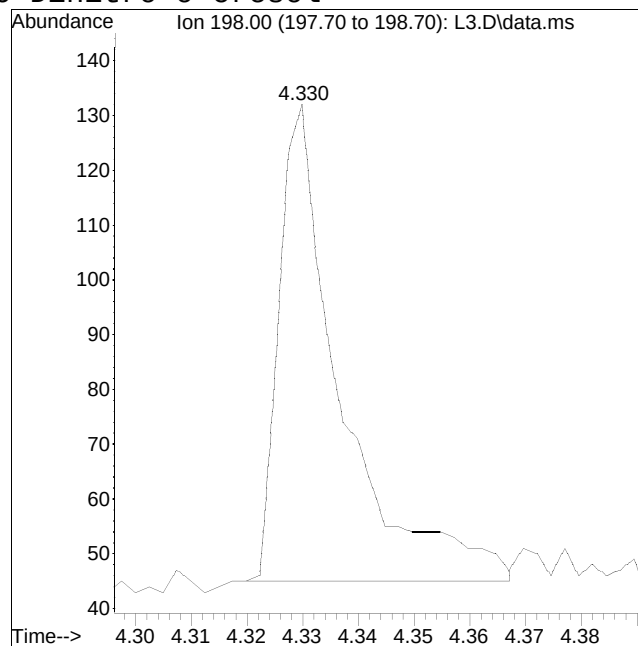
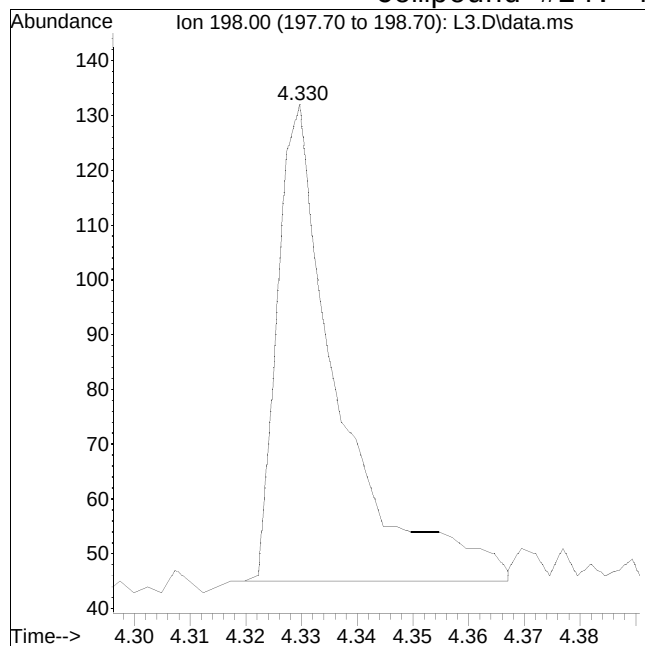


Manual Peak Response = 119 M6

Manual Integration Report

Data Path : I:\8270SIM\sv119\250625RVT01.M
Data File : L3.D
Date Inj'd : 6/25/2025 10:04 pm
Sample : IL3,32,,0.005 Lot# 11705
Method : SIM-RVT_250625_sv119.M
Operator : sv119:ljb
Instrument : SV119
Quant Date : 6/26/2025 6:28 pm

Compound #24: 4,6-Dinitro-o-cresol



Original Peak Response = 67

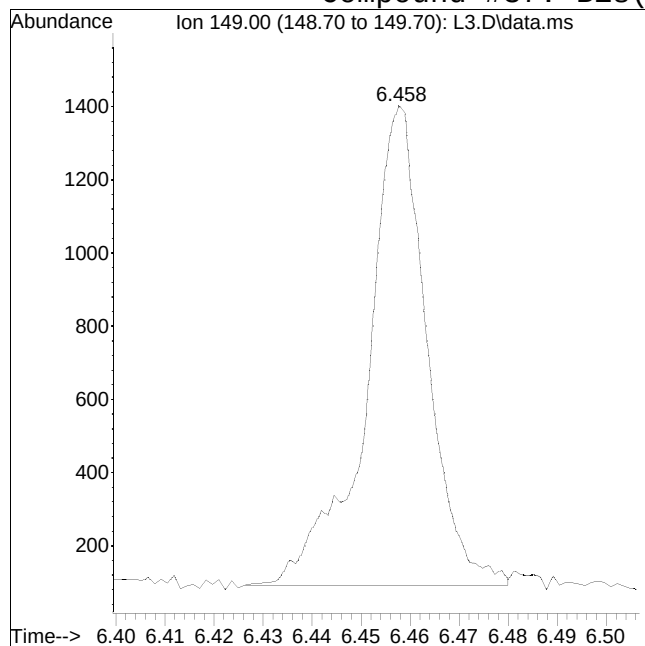
Manual Peak Response = 67 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

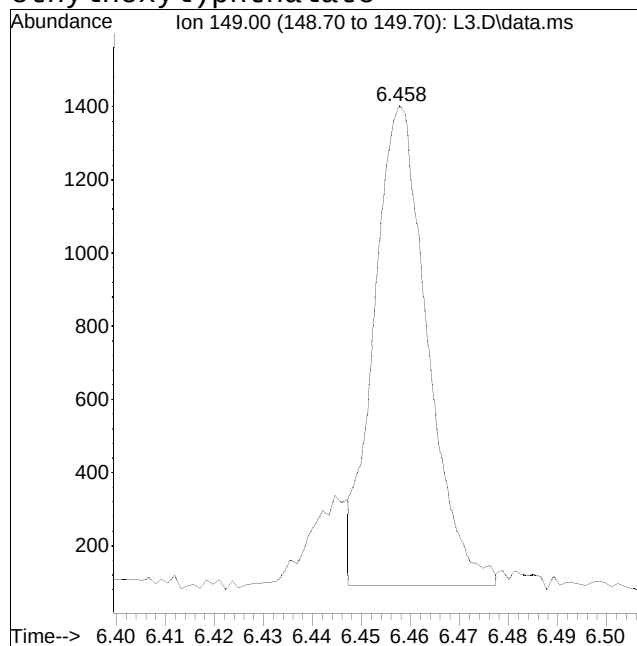
Data Path : I:\8270SIM\sv119\250625RVT01.M
Data File : L3.D
Date Inj'd : 6/25/2025 10:04 pm
Sample : IL3,32,,0.005 Lot# 11705
Method : SIM-RVT_250625_sv119.M
Operator : sv119:ljl
Instrument : SV119
Quant Date : 6/26/2025 6:28 pm

Compound #37: Bis(2-ethylhexyl)phthalate



Original Peak Response = 1124

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

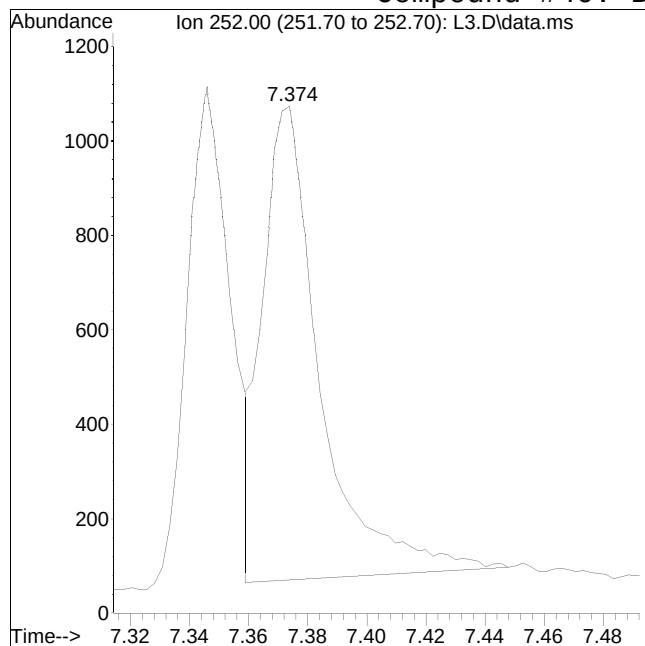


Manual Peak Response = 987 M6

Manual Integration Report

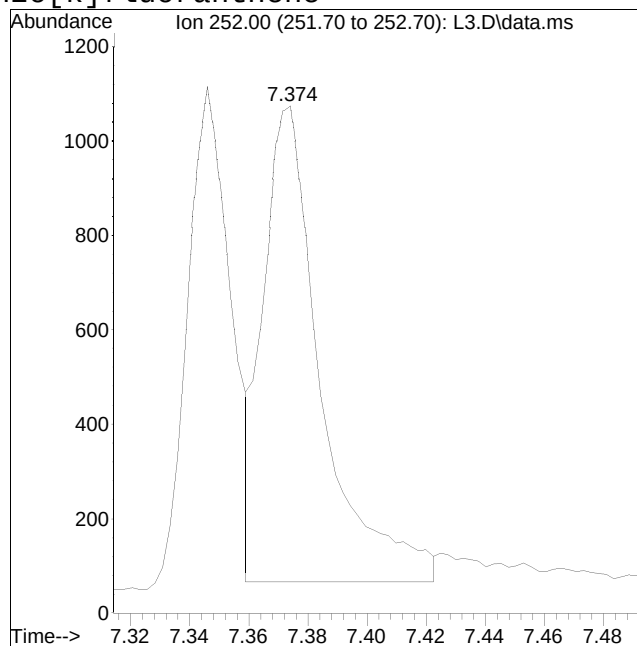
Data Path : I:\8270SIM\sv119\250625RVT01.M
Data File : L3.D
Date Inj'd : 6/25/2025 10:04 pm
Sample : IL3,32,,0.005 Lot# 11705
Method : SIM-RVT_250625_sv119.M
Operator : sv119:ljb
Instrument : SV119
Quant Date : 6/26/2025 6:28 pm

Compound #40: Benzo[k]fluoranthene



Original Peak Response = 1364

M4 = Poor automated baseline construction.



Manual Peak Response = 1376 M4

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250625RVTical\
 Data File : L2.D
 Acq On : 25 Jun 2025 10:24 pm
 Operator : sv119:ljl
 Sample : IL2,32,,0.002 Lot# 11706
 Misc : WG2084288,,ical
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 27 07:01:25 2025
 Quant Method : I:\8270SIM\sv119\250625RVTical\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 26 07:44:08 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\250625RVTical\L8.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.351	152	168711	4000.000	ng/ml	0.00
Standard Area 1 = 144221			Recovery	=	116.98%	
9) Naphthalene-d8	3.013	136	633046	4000.000	ng/ml	0.00
Standard Area 1 = 566700			Recovery	=	111.71%	
18) Acenaphthene-d10	3.992	164	371854	4000.000	ng/ml	0.00
Standard Area 1 = 346174			Recovery	=	107.42%	
23) Phenanthrene-d10	4.838	188	763855	4000.000	ng/ml	0.00
Standard Area 1 = 720898			Recovery	=	105.96%	
33) Chrysene-d12	6.474	240	952775	4000.000	ng/ml	0.03
Standard Area 1 = 872550			Recovery	=	109.19%	
38) Perylene-d12	7.789	264	962970	4000.000	ng/ml	0.03
Standard Area 1 = 911236			Recovery	=	105.68%	
System Monitoring Compounds						
3) 2-Fluorophenol	1.752	112	103	2.219	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	=	0.11%#	
4) Phenol-d6	2.150	99	129	2.149	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	=	0.11%#	
8) Nitrobenzene-d5	2.630	82	120	2.215	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	=	0.22%#	
14) 2-Fluorobiphenyl	3.608	172	296	2.109	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	=	0.21%#	
22) 2,4,6-Tribromophenol	4.436	330	44M2	2.004	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	=	0.10%#	
32) 4-Terphenyl-d14	5.783	244	468	2.194	ng/ml	0.02
Spiked Amount 1000.000	Range 30 - 130		Recovery	=	0.22%#	
Target Compounds						
2) N-Nitrosodimethylamine	0.000		0	N.D.		
5) Bis(2-chloroethyl)ether	2.211	93	116	2.337	ng/ml	85
6) n-nitrosodi-n-propylamine	0.000		0	N.D.	d	
7) Hexachloroethane	2.614	117	43	2.005	ng/ml	88
10) Naphthalene	3.025	128	396	2.426	ng/ml#	87
11) Hexachlorobutadiene	3.096	225	67	2.135	ng/ml	100
12) 2-Methylnaphthalene	3.404	142	243	2.350	ng/ml	95
13) 1-Methylnaphthalene	3.460	142	228	2.089	ng/ml	99
15) 2-Chloronaphthalene	3.675	162	246	2.064	ng/ml	98
16) 2,6-Dinitrotoluene	3.864	165	84	3.117	ng/ml	95

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250625RVTical\
 Data File : L2.D
 Acq On : 25 Jun 2025 10:24 pm
 Operator : sv119:ljpg
 Sample : IL2,32,,0.002 Lot# 11706
 Misc : WG2084288,,ical
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 27 07:01:25 2025
 Quant Method : I:\8270SIM\sv119\250625RVTical\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 26 07:44:08 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\250625RVTical\L8.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
17)	Acenaphthylene	3.908	152	399	1.941	ng/ml	98
19)	Acenaphthene	4.007	153	257	2.146	ng/ml	92
20)	2,4-Dinitrotoluene	4.093	165	65	1.835	ng/ml#	72
21)	Fluorene	4.300	166	312	2.135	ng/ml	97
24)	4,6-Dinitro-o-cresol	0.000		0	N.D.		
25)	Hexachlorobenzene	4.617	284	111	2.179	ng/ml	95
26)	Pentachlorophenol	4.732	266	132	6.312	ng/ml	96
27)	Phenanthrene	4.850	178	533M7	2.414	ng/ml	
28)	Anthracene	4.879	178	476	2.039	ng/ml	99
29)	Fluoranthene	5.550	202	690	2.257	ng/ml#	84
30)	Pyrene	5.686	202	732	2.275	ng/ml	99
31)	Benzidine	0.000		0	N.D.		
34)	Benzo[a]anthracene	6.473	228	3252	9.981	ng/ml#	79
35)	3,3'-Dichlorobenzidine	0.000		0	N.D.	d	
36)	Chrysene	6.490	228	631M1	2.013	ng/ml	
37)	Bis(2-ethylhexyl)phtha...	6.490	149	466M6	2.638	ng/ml	
39)	Benzo[b]fluoranthene	7.377	252	420	1.443	ng/ml	95
40)	Benzo[k]fluoranthene	7.405	252	471M1	1.465	ng/ml	
41)	Benzo[a]pyrene	7.718	252	392	1.394	ng/ml	99
42)	Indeno[1,2,3-cd]pyrene	9.092	276	292	1.291	ng/ml	98
43)	Dibenzo[a,h]anthracene	9.130	278	253M7	1.089	ng/ml	
44)	Benzo[g,h,i]perylene	9.461	276	363	1.376	ng/ml	97

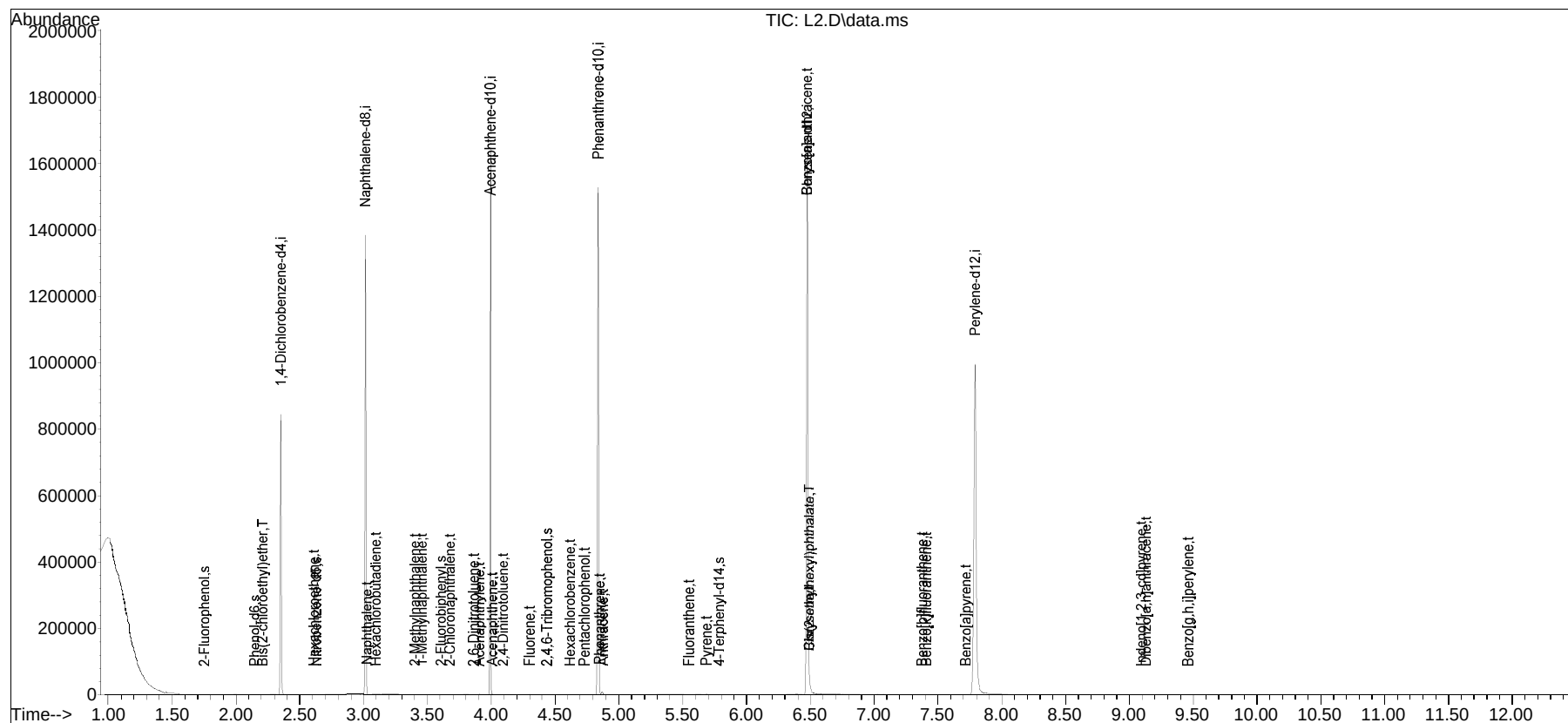
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250625RVTical\
 Data File : L2.D
 Acq On : 25 Jun 2025 10:24 pm
 Operator : sv119:ljg
 Sample : IL2,32,,0.002 Lot# 11706
 Misc : WG2084288,,ical
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 27 07:01:25 2025
 Quant Method : I:\8270SIM\sv119\250625RVTical\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 26 07:44:08 2025
 Response via : Initial Calibration

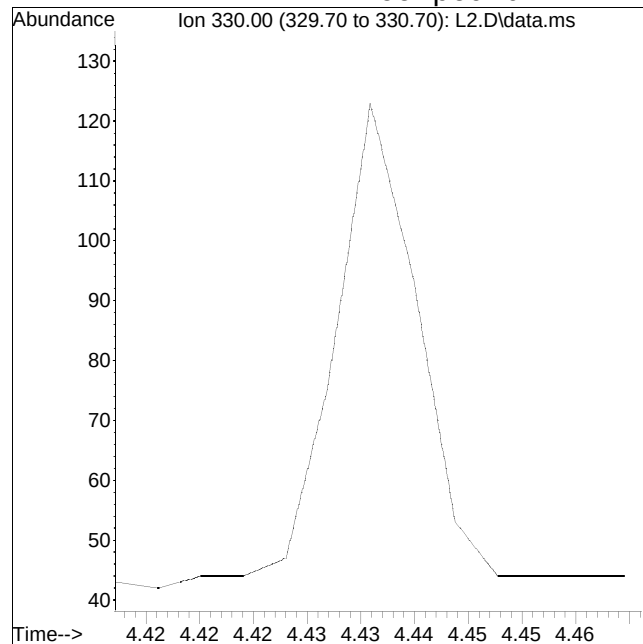
Sub List : Default - All compounds listedical\L8.D•



Manual Integration Report

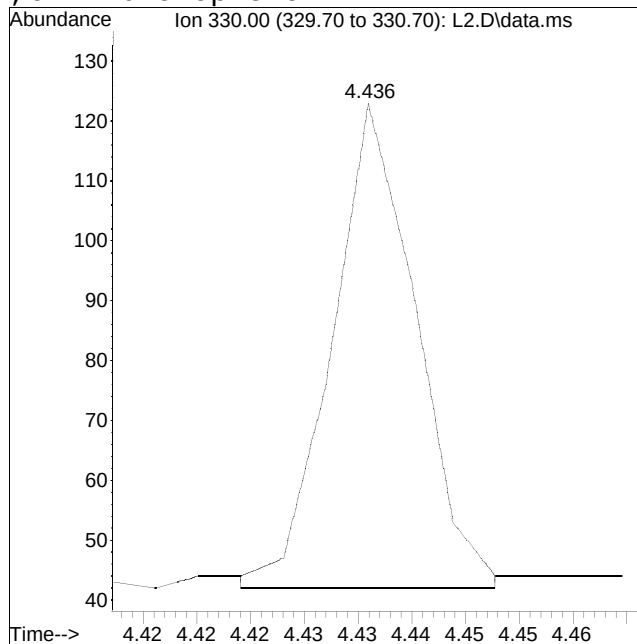
Data Path : I:\8270SIM\sv119\250625RVT\Method : SIM-RVT_250625_sv119.M
Data File : L2.D Operator : sv119:ljl
Date Inj'd : 6/25/2025 10:24 pm Instrument : SV119
Sample : IL2,32,,0.002 Lot# 11706 Quant Date : 6/26/2025 7:47 am

Compound #22: 2,4,6-Tribromophenol



Original Peak Response = 0

M2 = Peak not found by automatic integration algorithm.

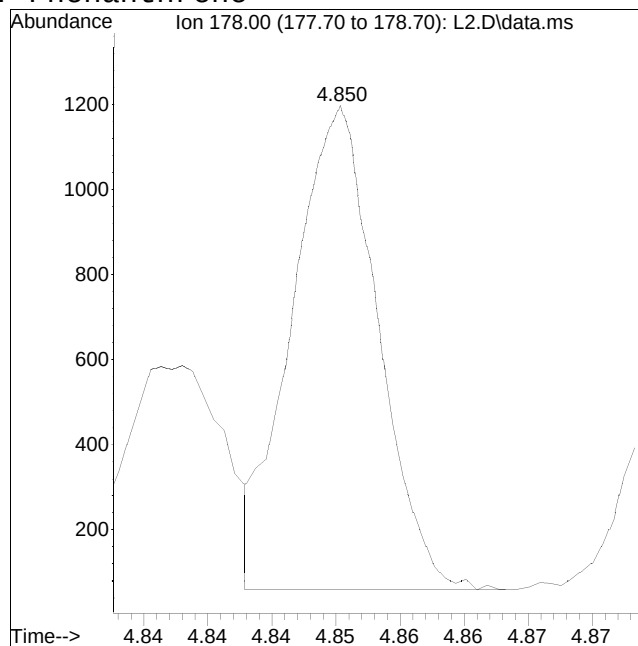
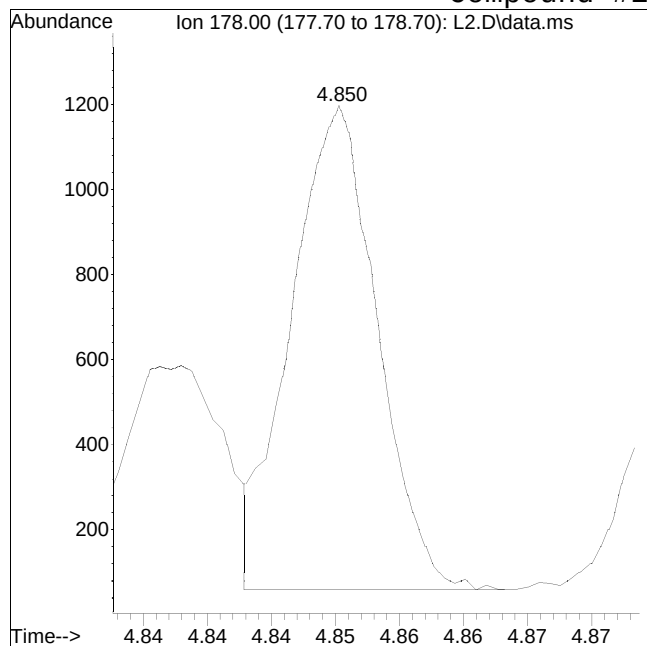


Manual Peak Response = 44 M2

Manual Integration Report

Data Path : I:\8270SIM\sv119\250625RVT\data.ms
Data File : L2.D
Date Inj'd : 6/25/2025 10:24 pm
Sample : IL2,32,,0.002 Lot# 11706
Method : SIM-RVT_250625_sv119.M
Operator : sv119:ljb
Instrument : SV119
Quant Date : 6/26/2025 7:47 am

Compound #27: Phenanthrene



Original Peak Response = 533

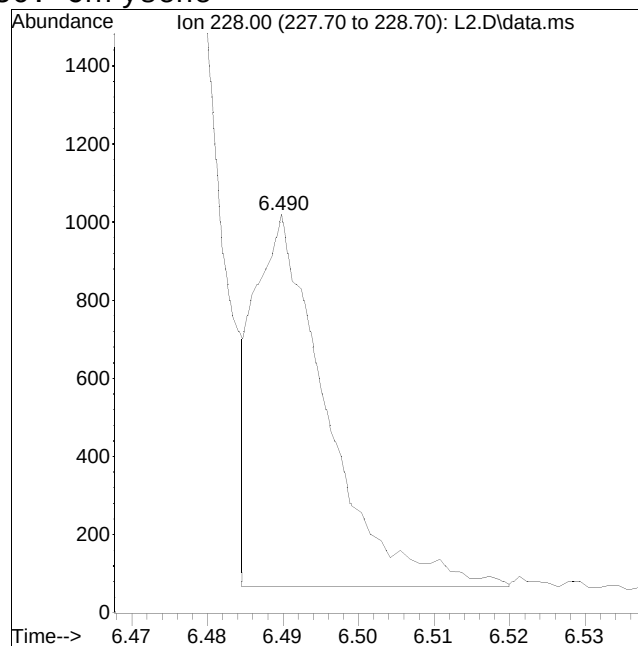
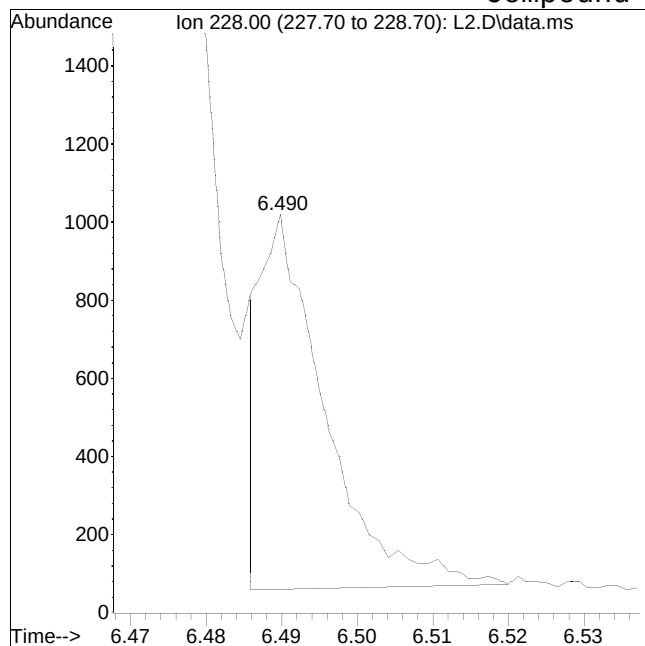
Manual Peak Response = 533 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

Data Path : I:\8270SIM\sv119\250625RVT01.M
Data File : L2.D
Date Inj'd : 6/25/2025 10:24 pm
Sample : IL2,32,,0.002 Lot# 11706
Method : SIM-RVT_250625_sv119.M
Operator : sv119:ljb
Instrument : SV119
Quant Date : 6/26/2025 7:47 am

Compound #36: Chrysene



Original Peak Response = 573

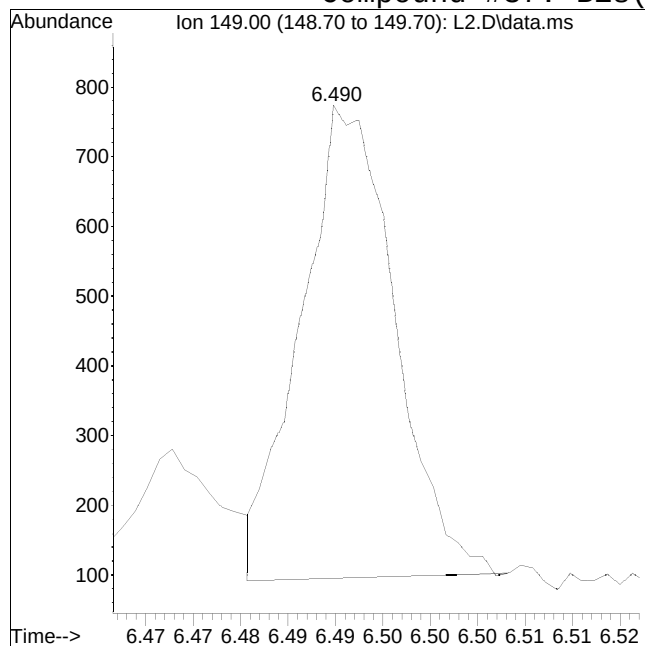
Manual Peak Response = 631 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

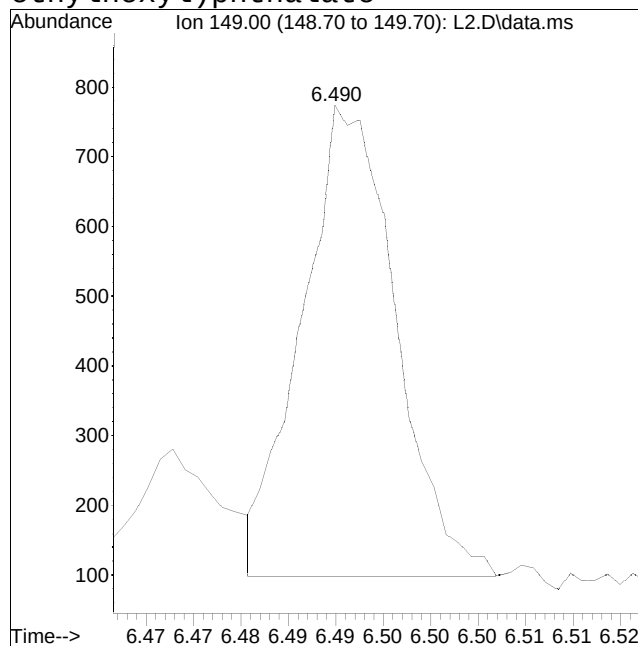
Data Path : I:\8270SIM\sv119\250625RVT01.M
Data File : L2.D
Date Inj'd : 6/25/2025 10:24 pm
Sample : IL2,32,,0.002 Lot# 11706
Method : SIM-RVT_250625_sv119.M
Operator : sv119:ljb
Instrument : SV119
Quant Date : 6/26/2025 7:47 am

Compound #37: Bis(2-ethylhexyl)phthalate



Original Peak Response = 467

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

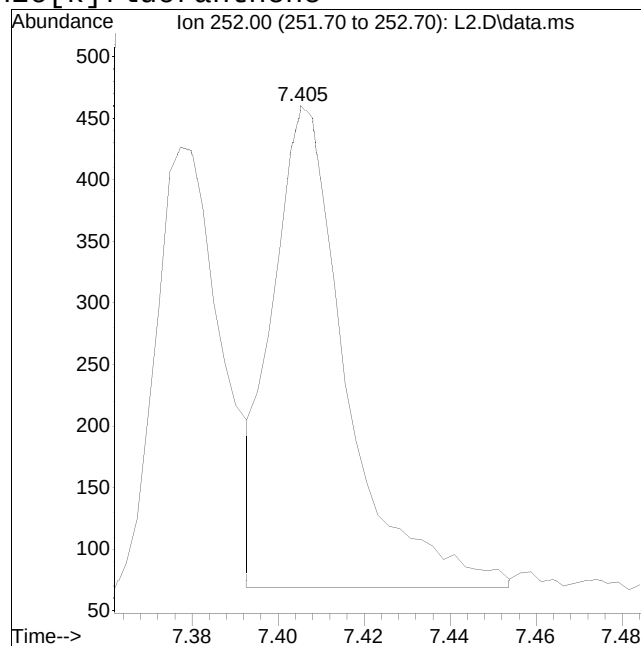
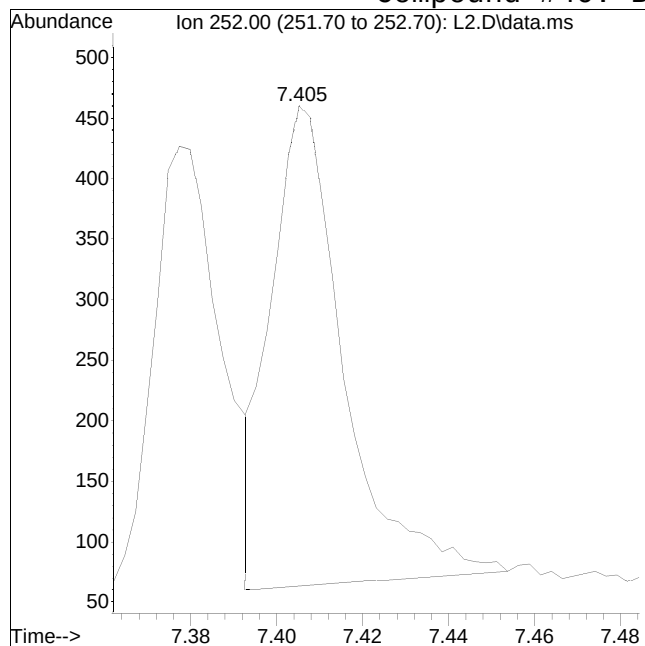


Manual Peak Response = 466 M6

Manual Integration Report

Data Path : I:\8270SIM\sv119\250625RVT01.M
Data File : L2.D
Date Inj'd : 6/25/2025 10:24 pm
Sample : IL2,32,,0.002 Lot# 11706
Method : SIM-RVT_250625_sv119.M
Operator : sv119:ljg
Instrument : SV119
Quant Date : 6/26/2025 7:47 am

Compound #40: Benzo[k]fluoranthene



Original Peak Response = 474

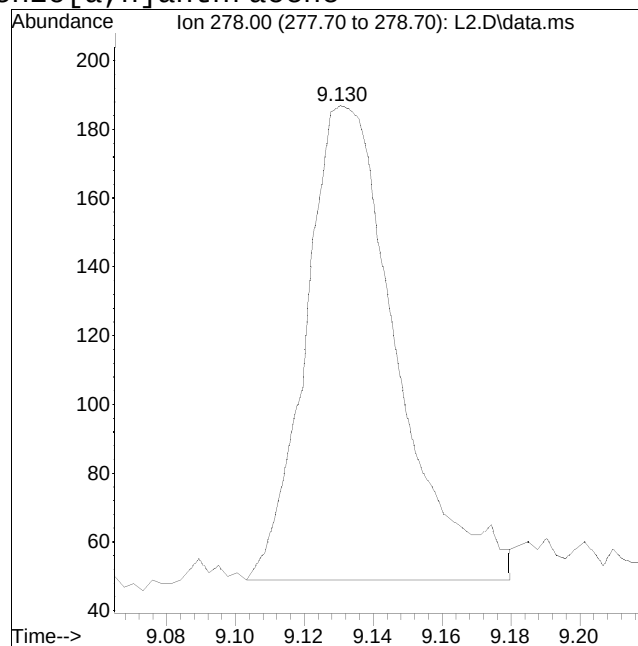
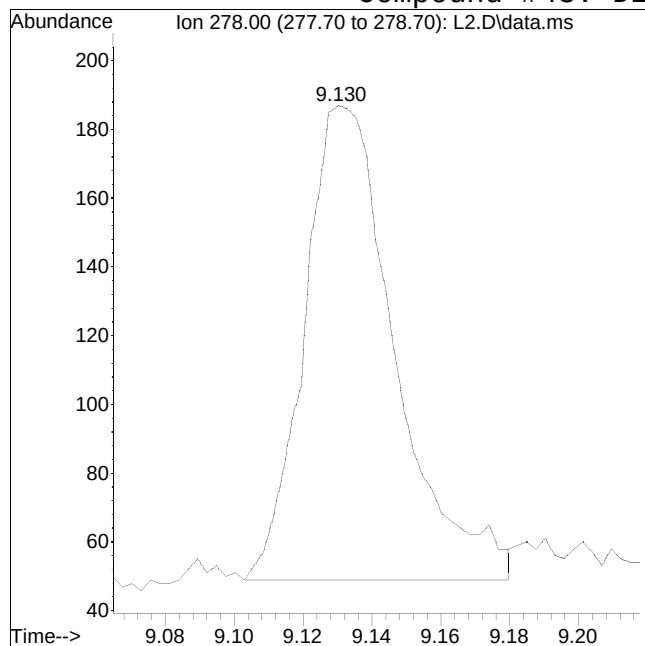
Manual Peak Response = 471 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\8270SIM\sv119\250625RVT01.M
Data File : L2.D
Date Inj'd : 6/25/2025 10:24 pm
Sample : IL2,32,,0.002 Lot# 11706
Method : SIM-RVT_250625_sv119.M
Operator : sv119:ljl
Instrument : SV119
Quant Date : 6/26/2025 7:47 am

Compound #43: Dibenzo[a,h]anthracene



Original Peak Response = 253

Manual Peak Response = 253 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250625RVTical\
 Data File : L1.D
 Acq On : 25 Jun 2025 10:41 pm
 Operator : sv119:ljl
 Sample : IL1,32,,0.001 Lot# 11707
 Misc : WG2084288,,ical
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 27 06:49:46 2025
 Quant Method : I:\8270SIM\sv119\250625RVTical\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 26 07:44:08 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\250625RVTical\L8.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.360	152	193054	4000.000	ng/ml	0.00
Standard Area 1 = 144221			Recovery	=	133.86%	
9) Naphthalene-d8	3.019	136	726844	4000.000	ng/ml	0.00
Standard Area 1 = 566700			Recovery	=	128.26%	
18) Acenaphthene-d10	3.994	164	402379	4000.000	ng/ml	0.00
Standard Area 1 = 346174			Recovery	=	116.24%	
23) Phenanthrene-d10	4.838	188	804024	4000.000	ng/ml	0.00
Standard Area 1 = 720898			Recovery	=	111.53%	
33) Chrysene-d12	6.453	240	988638	4000.000	ng/ml	0.00
Standard Area 1 = 872550			Recovery	=	113.30%	
38) Perylene-d12	7.769	264	933454	4000.000	ng/ml	0.01
Standard Area 1 = 911236			Recovery	=	102.44%	
System Monitoring Compounds						
3) 2-Fluorophenol	1.761	112	66M7	1.242	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	=	0.06%#	
4) Phenol-d6	2.159	99	102	1.485	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	=	0.07%#	
8) Nitrobenzene-d5	2.638	82	71	1.145	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	=	0.11%#	
14) 2-Fluorobiphenyl	3.611	172	170	1.055	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	=	0.11%#	
22) 2,4,6-Tribromophenol	4.440	330	32M6	1.347	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	=	0.07%#	
32) 4-Terphenyl-d14	5.772	244	262M7	1.167	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	=	0.12%#	
Target Compounds						
2) N-Nitrosodimethylamine	0.000		0	N.D.		
5) Bis(2-chloroethyl)ether	2.217	93	71	1.250	ng/ml	95
6) n-nitrosodi-n-propylamine	0.000		0	N.D.		
7) Hexachloroethane	2.619	117	23M2	0.937	ng/ml	
10) Naphthalene	3.031	128	221	1.179	ng/ml#	60
11) Hexachlorobutadiene	3.102	225	41M2	1.138	ng/ml	
12) 2-Methylnaphthalene	3.410	142	155	1.305	ng/ml	98
13) 1-Methylnaphthalene	3.466	142	136	1.085	ng/ml	91

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250625RVTical\
 Data File : L1.D
 Acq On : 25 Jun 2025 10:41 pm
 Operator : sv119:ljb
 Sample : IL1,32,,0.001 Lot# 11707
 Misc : WG2084288,,ical
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 27 06:49:46 2025
 Quant Method : I:\8270SIM\sv119\250625RVTical\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Thu Jun 26 07:44:08 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\250625RVTical\L8.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15)	2-Chloronaphthalene	3.678	162	130	0.950	ng/ml	88
16)	2,6-Dinitrotoluene	0.000		0	N.D.	d	
17)	Acenaphthylene	3.912	152	221	0.936	ng/ml	95
19)	Acenaphthene	4.011	153	144	1.111	ng/ml	88
20)	2,4-Dinitrotoluene	0.000		0	N.D.		
21)	Fluorene	4.302	166	182	1.151	ng/ml	98
24)	4,6-Dinitro-o-cresol	0.000		0	N.D.		
25)	Hexachlorobenzene	4.621	284	65M7	1.212	ng/ml	
26)	Pentachlorophenol	4.732	266	89	4.044	ng/ml	99
27)	Phenanthrene	4.850	178	332M7	1.429	ng/ml	
28)	Anthracene	4.878	178	267M7	1.087	ng/ml	
29)	Fluoranthene	5.542	202	394	1.224	ng/ml#	94
30)	Pyrene	5.678	202	405	1.196	ng/ml	96
31)	Benidine	0.000		0	N.D.		
34)	Benzo[a]anthracene	6.453	228	3026	8.950	ng/ml#	68
35)	3,3'-Dichlorobenzidine	0.000		0	N.D.		
36)	Chrysene	6.469	228	313M3	0.962	ng/ml	
37)	Bis(2-ethylhexyl)phtha...	6.468	149	409M6	2.232	ng/ml	
39)	Benzo[b]fluoranthene	7.357	252	213	0.755	ng/ml	94
40)	Benzo[k]fluoranthene	7.382	252	265M4	0.850	ng/ml	
41)	Benzo[a]pyrene	7.695	252	191	0.701	ng/ml	99
42)	Indeno[1,2,3-cd]pyrene	9.070	276	136M7	0.620	ng/ml	
43)	Dibenzo[a,h]anthracene	9.111	278	126M7	0.559	ng/ml	
44)	Benzo[g,h,i]perylene	9.436	276	166M7	0.649	ng/ml	

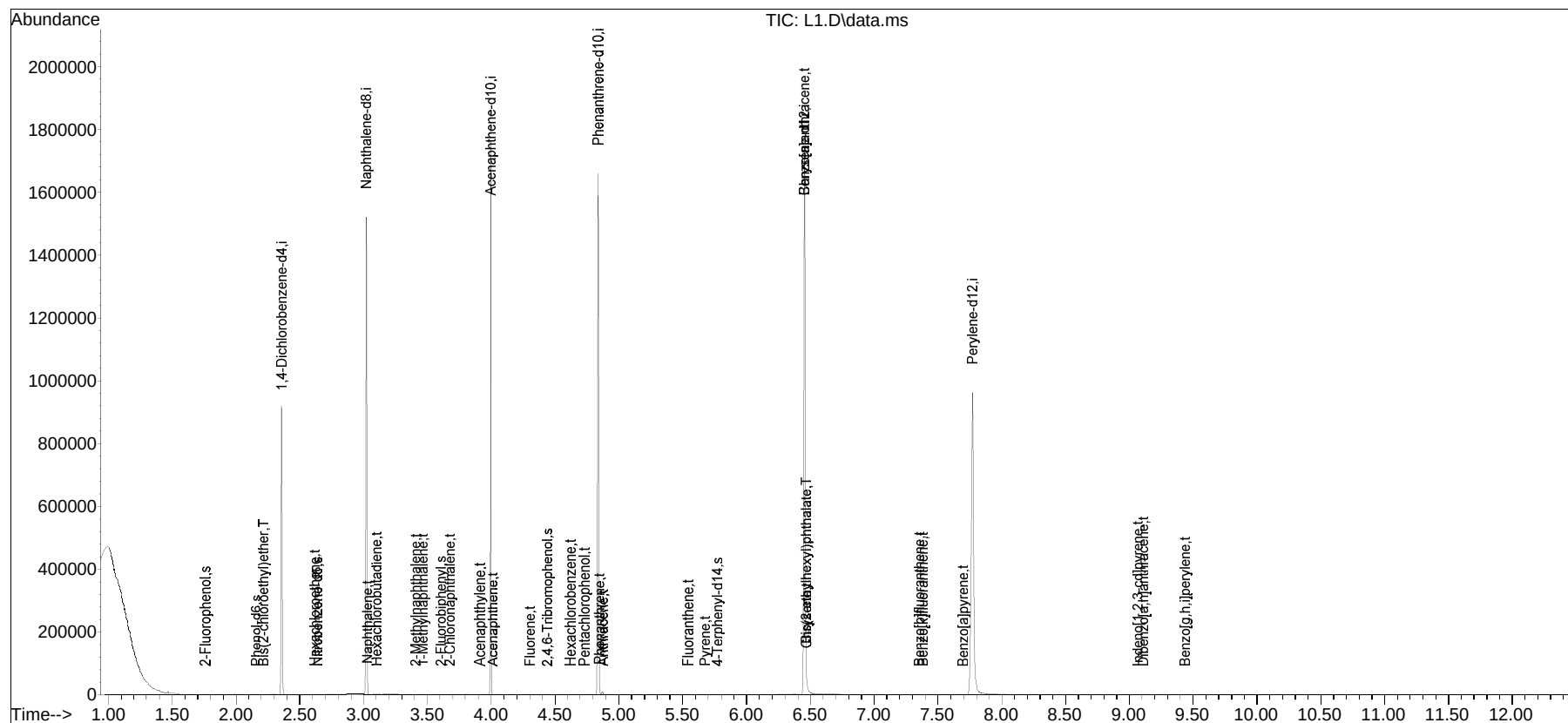
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250625RVTical\
Data File : L1.D
Acq On : 25 Jun 2025 10:41 pm
Operator : sv119:ljg
Sample : IL1,32,,0.001 Lot# 11707
Misc : WG2084288,,ical
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 27 06:49:46 2025
Quant Method : I:\8270SIM\sv119\250625RVTical\SIM-RVT_250625_sv119.M
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Jun 26 07:44:08 2025
Response via : Initial Calibration

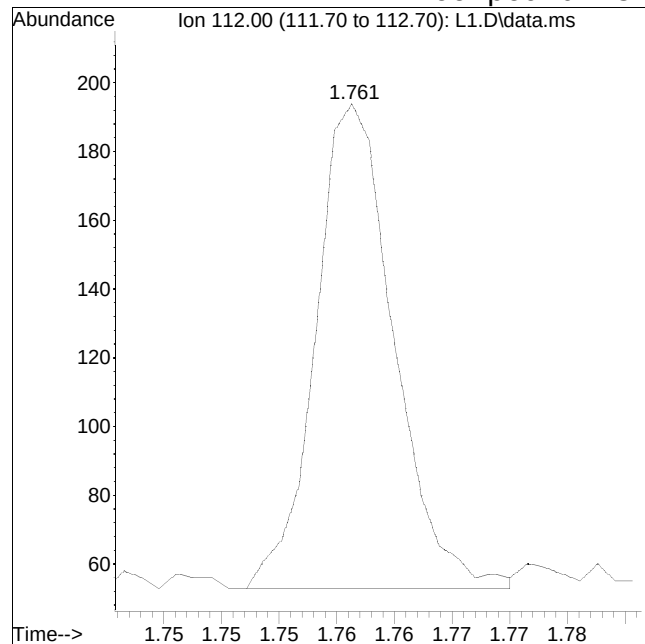
Sub List : Default - All compounds listedical\L8.D•



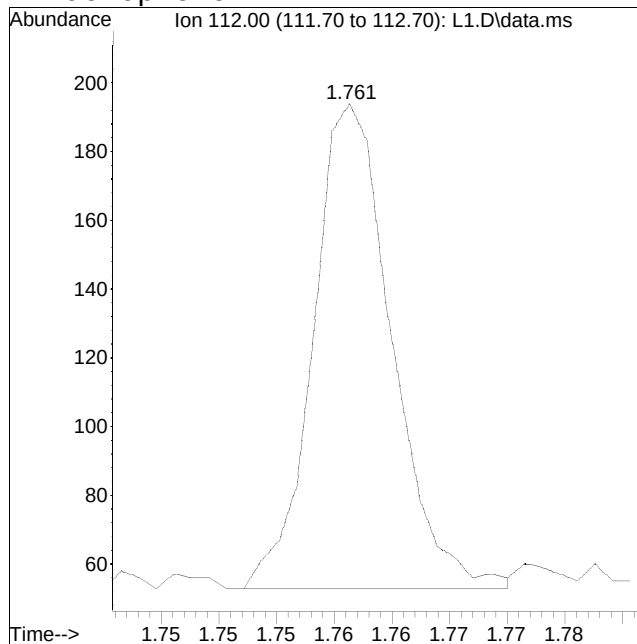
Manual Integration Report

Data Path : I:\8270SIM\sv119\250625RVT_QMethod : SIM-RVT_250625_sv119.M
Data File : L1.D Operator : sv119:ljl
Date Inj'd : 6/25/2025 10:41 pm Instrument : SV119
Sample : IL1,32,,0.001 Lot# 11707 Quant Date : 6/26/2025 7:47 am

Compound #3: 2-Fluorophenol



Original Peak Response = 66



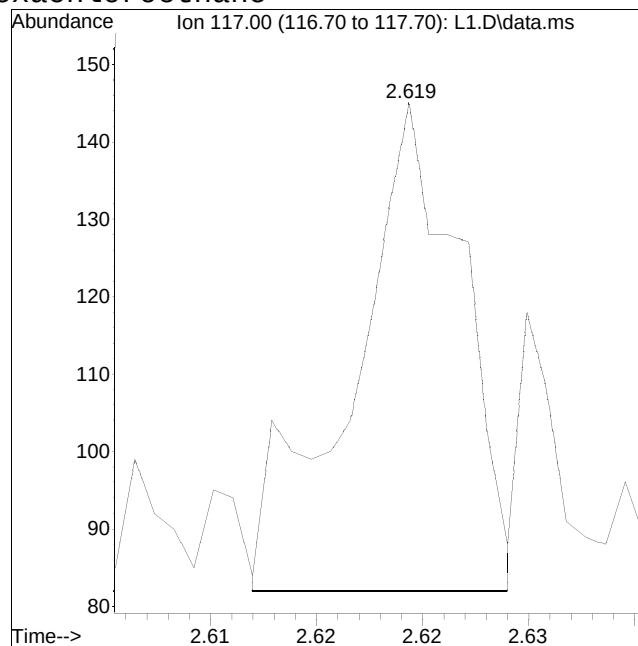
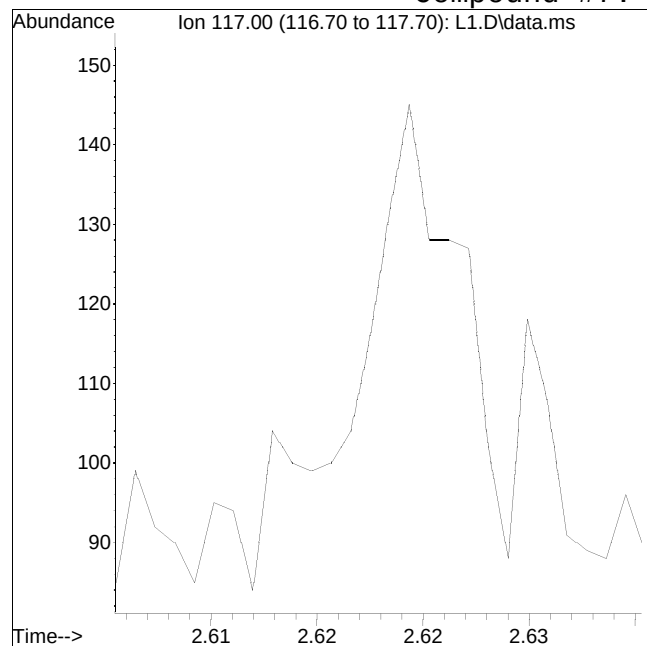
Manual Peak Response = 66 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

Data Path : I:\8270SIM\sv119\250625RVT01.M
Data File : L1.D
Date Inj'd : 6/25/2025 10:41 pm
Sample : IL1,32,,0.001 Lot# 11707
Method : SIM-RVT_250625_sv119.M
Operator : sv119:ljb
Instrument : SV119
Quant Date : 6/26/2025 7:47 am

Compound #7: Hexachloroethane



Original Peak Response = 0

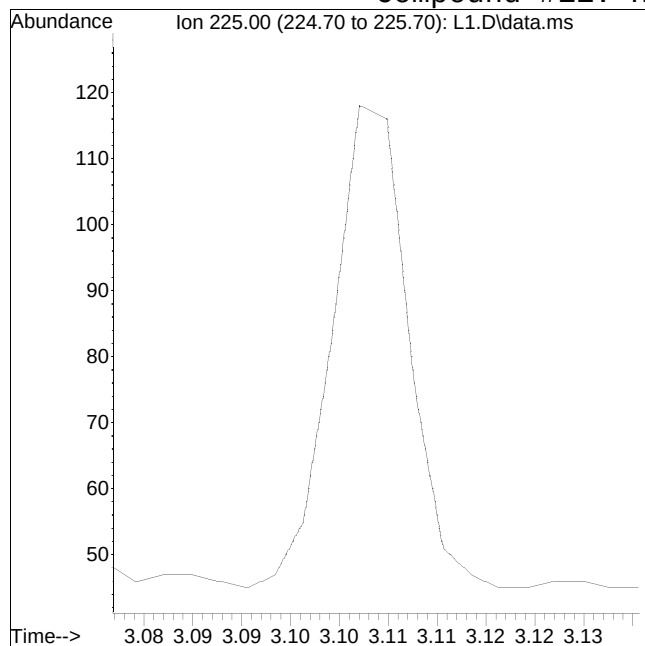
Manual Peak Response = 23 M2

M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

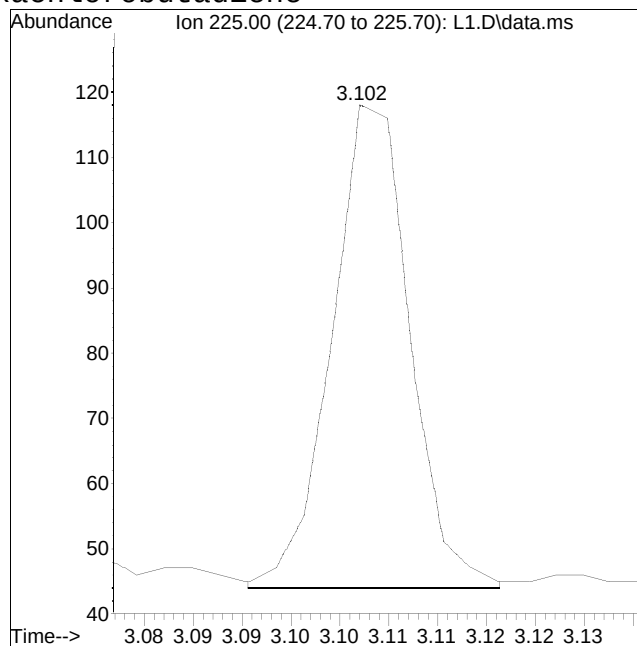
Data Path : I:\8270SIM\sv119\250625RVT01.M
Data File : L1.D
Date Inj'd : 6/25/2025 10:41 pm
Sample : IL1,32,,0.001 Lot# 11707
Method : SIM-RVT_250625_sv119.M
Operator : sv119:ljb
Instrument : SV119
Quant Date : 6/26/2025 7:47 am

Compound #11: Hexachlorobutadiene



Original Peak Response = 0

M2 = Peak not found by automatic integration algorithm.

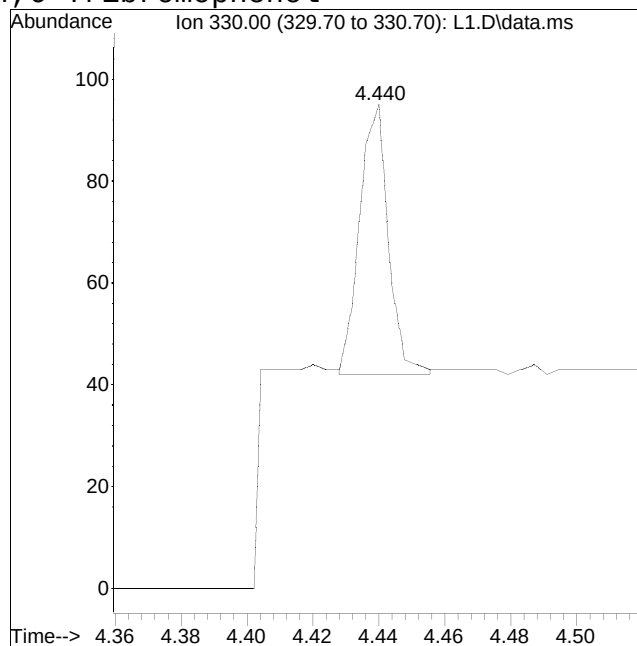
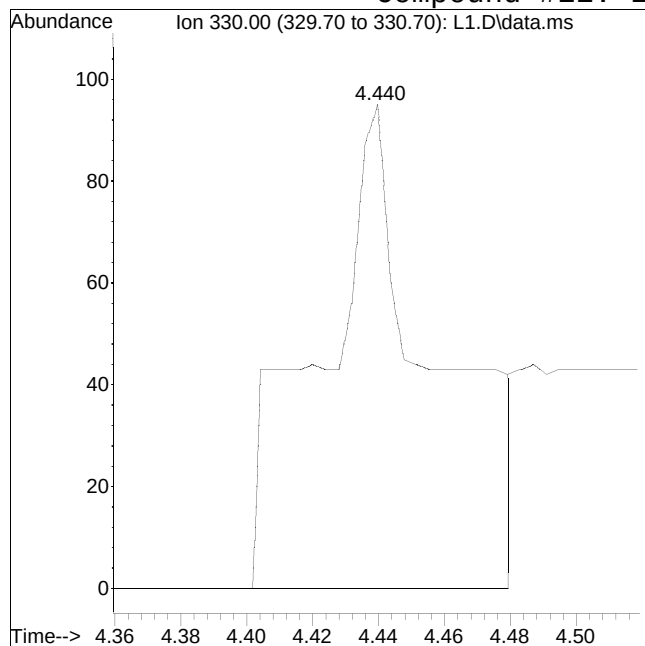


Manual Peak Response = 41 M2

Manual Integration Report

Data Path : I:\8270SIM\sv119\250625RVT01.M
Data File : L1.D
Date Inj'd : 6/25/2025 10:41 pm
Sample : IL1,32,,0.001 Lot# 11707
Method : SIM-RVT_250625_sv119.M
Operator : sv119:ljb
Instrument : SV119
Quant Date : 6/26/2025 7:47 am

Compound #22: 2,4,6-Tribromophenol



Original Peak Response = 226

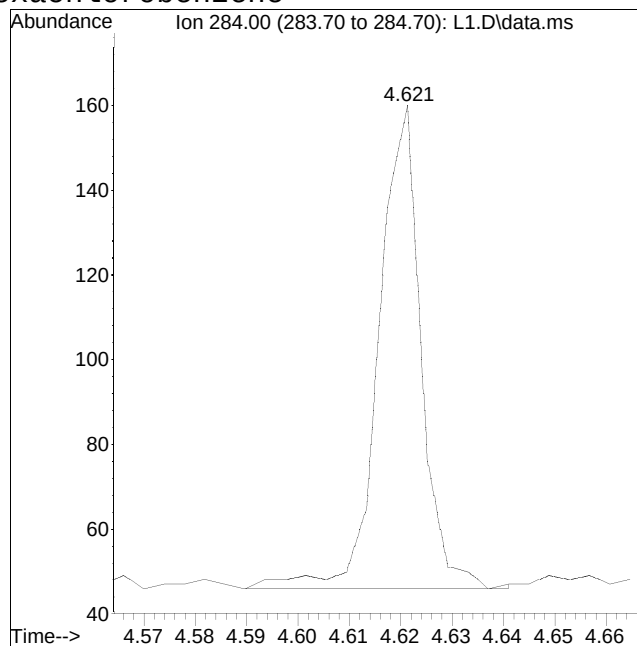
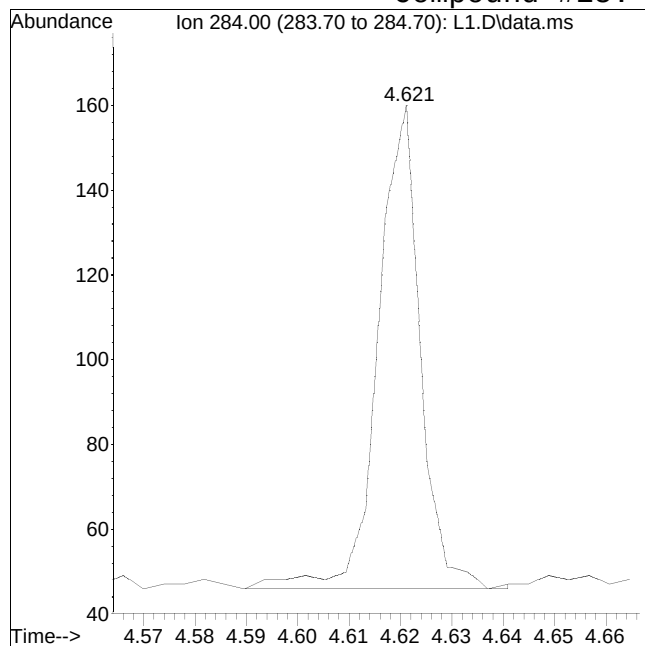
Manual Peak Response = 32 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270SIM\sv119\250625RVT01.M
Data File : L1.D
Date Inj'd : 6/25/2025 10:41 pm
Sample : IL1,32,,0.001 Lot# 11707
Method : SIM-RVT_250625_sv119.M
Operator : sv119:ljb
Instrument : SV119
Quant Date : 6/26/2025 7:47 am

Compound #25: Hexachlorobenzene



Original Peak Response = 65

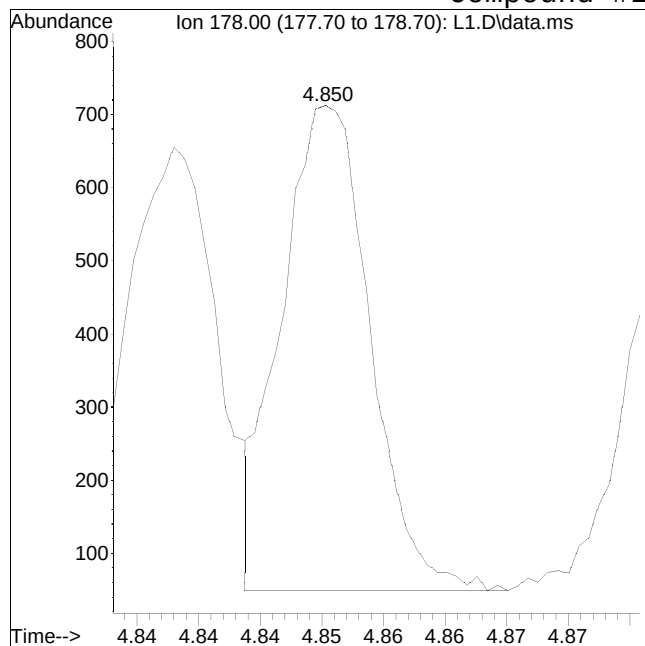
Manual Peak Response = 65 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

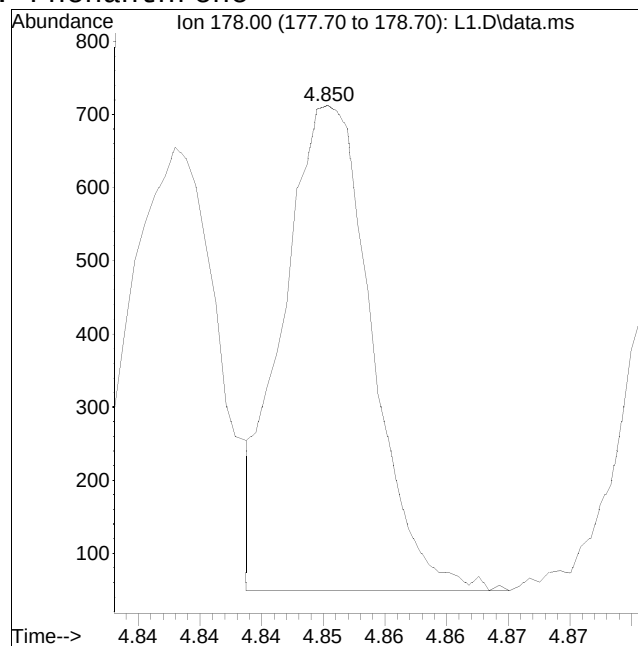
Manual Integration Report

Data Path : I:\8270SIM\sv119\250625RVT01.M
Data File : L1.D
Date Inj'd : 6/25/2025 10:41 pm
Sample : IL1,32,,0.001 Lot# 11707
Method : SIM-RVT_250625_sv119.M
Operator : sv119:ljj
Instrument : SV119
Quant Date : 6/26/2025 7:47 am

Compound #27: Phenanthrene



Original Peak Response = 332



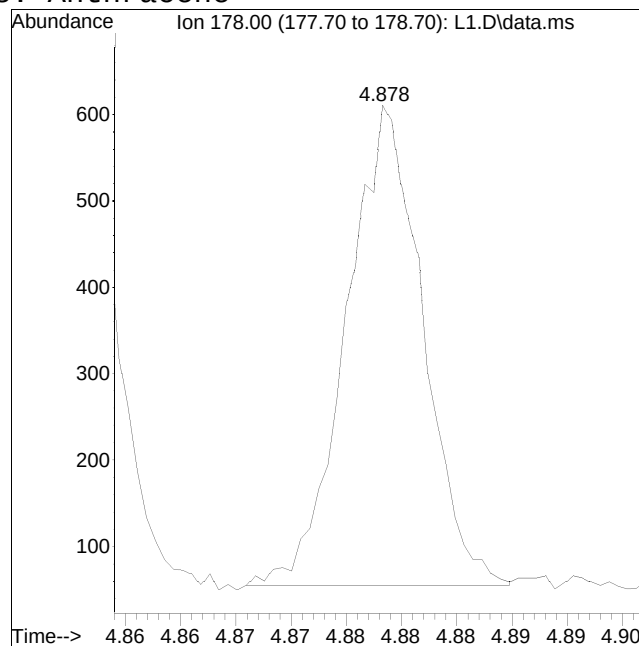
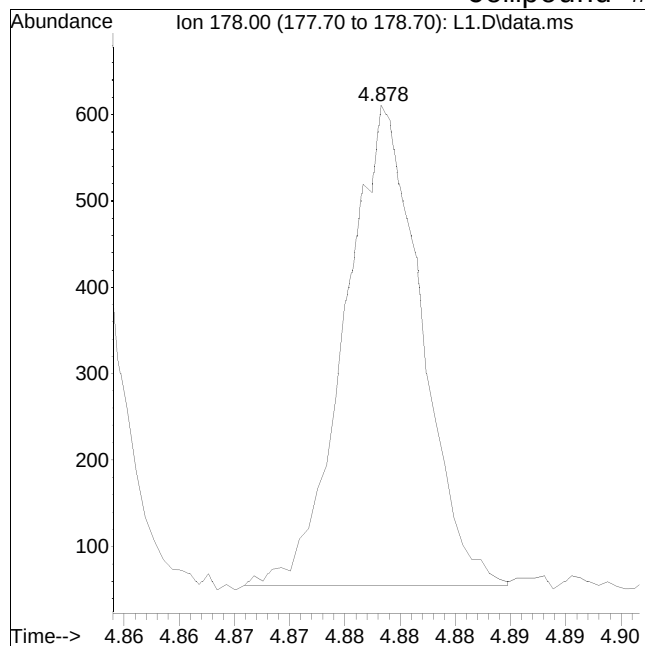
Manual Peak Response = 332 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

Data Path : I:\8270SIM\sv119\250625RVT\Method : SIM-RVT_250625_sv119.M
Data File : L1.D Operator : sv119:ljl
Date Inj'd : 6/25/2025 10:41 pm Instrument : SV119
Sample : IL1,32,,0.001 Lot# 11707 Quant Date : 6/26/2025 7:47 am

Compound #28: Anthracene



Original Peak Response = 267

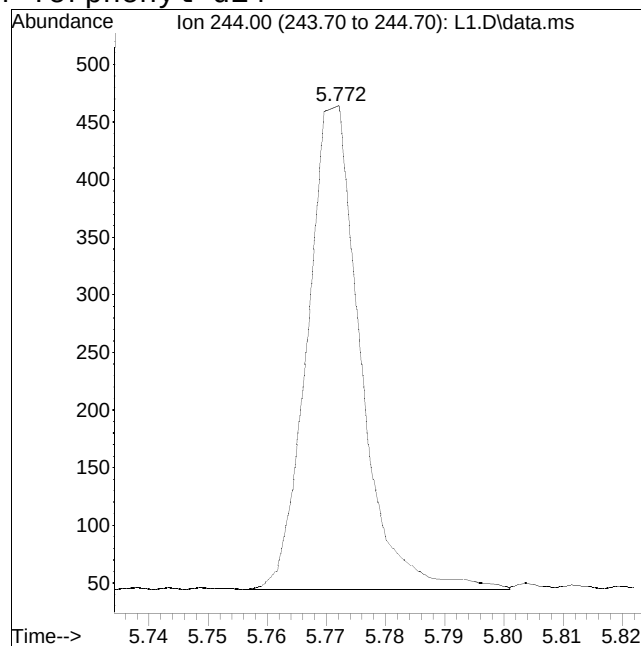
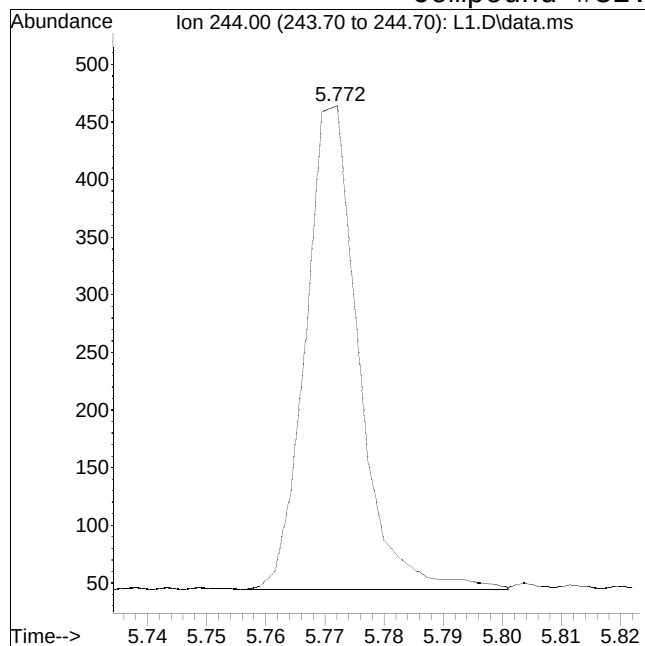
Manual Peak Response = 267 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

Data Path : I:\8270SIM\sv119\250625RVT01.M
Data File : L1.D
Date Inj'd : 6/25/2025 10:41 pm
Sample : IL1,32,,0.001 Lot# 11707
Method : SIM-RVT_250625_sv119.M
Operator : sv119:ljb
Instrument : SV119
Quant Date : 6/26/2025 7:47 am

Compound #32: 4-Terphenyl-d14



Original Peak Response = 262

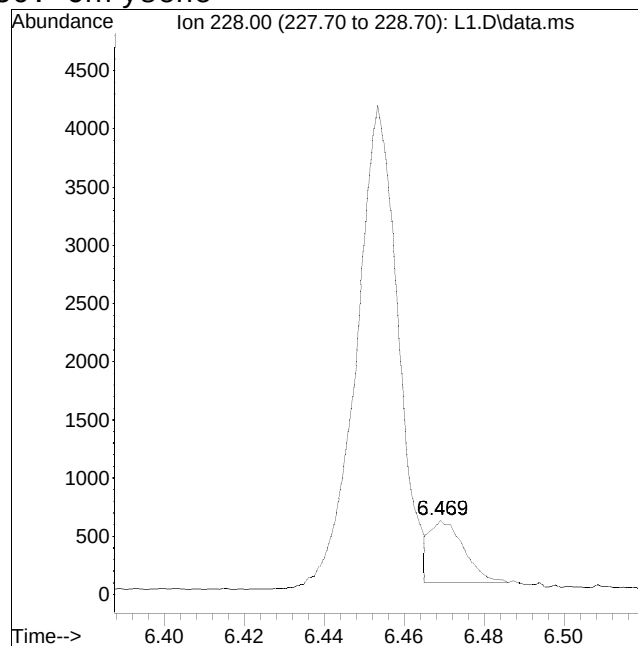
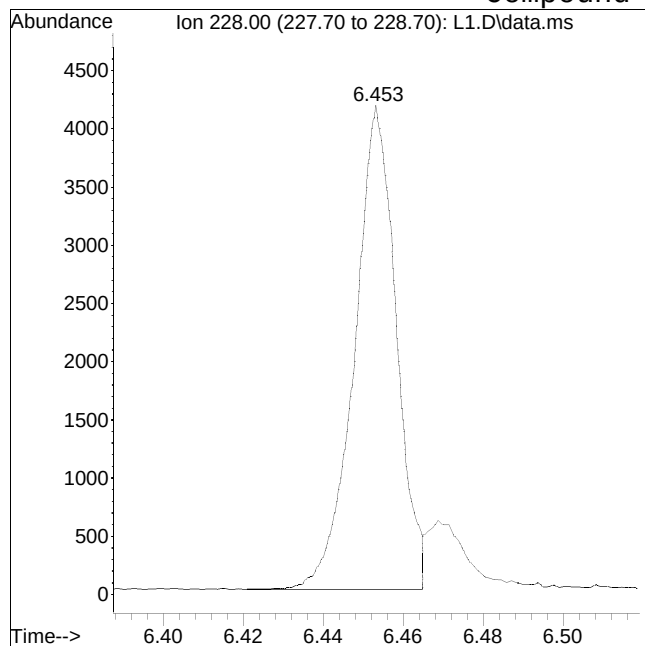
Manual Peak Response = 262 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

Data Path : I:\8270SIM\sv119\250625RVT01.M
Data File : L1.D
Date Inj'd : 6/25/2025 10:41 pm
Sample : IL1,32,,0.001 Lot# 11707
Method : SIM-RVT_250625_sv119.M
Operator : sv119:ljl
Instrument : SV119
Quant Date : 6/26/2025 7:47 am

Compound #36: Chrysene



Original Peak Response = 3026

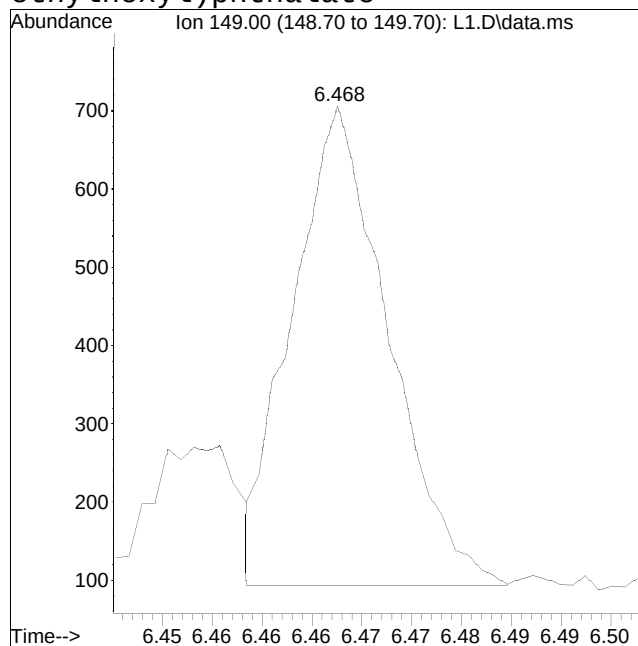
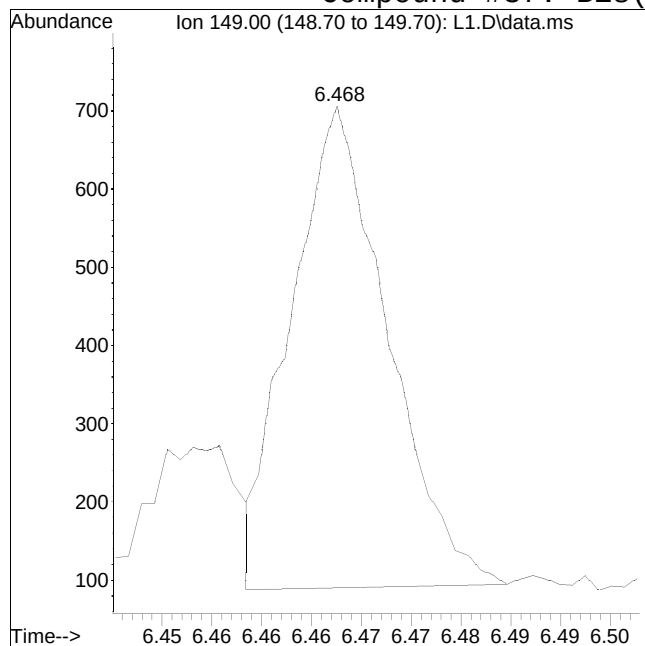
Manual Peak Response = 313 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270SIM\sv119\250625RVT01.M
 Data File : L1.D
 Date Inj'd : 6/25/2025 10:41 pm
 Sample : IL1,32,,0.001 Lot# 11707
 Method : SIM-RVT_250625_sv119.M
 Operator : sv119:ljj
 Instrument : SV119
 Quant Date : 6/26/2025 7:47 am

Compound #37: Bis(2-ethylhexyl)phthalate



Original Peak Response = 412

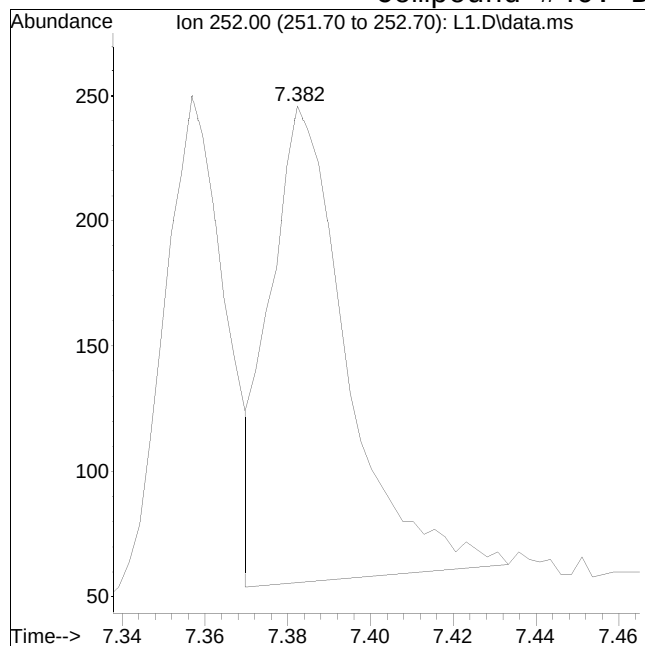
Manual Peak Response = 409 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

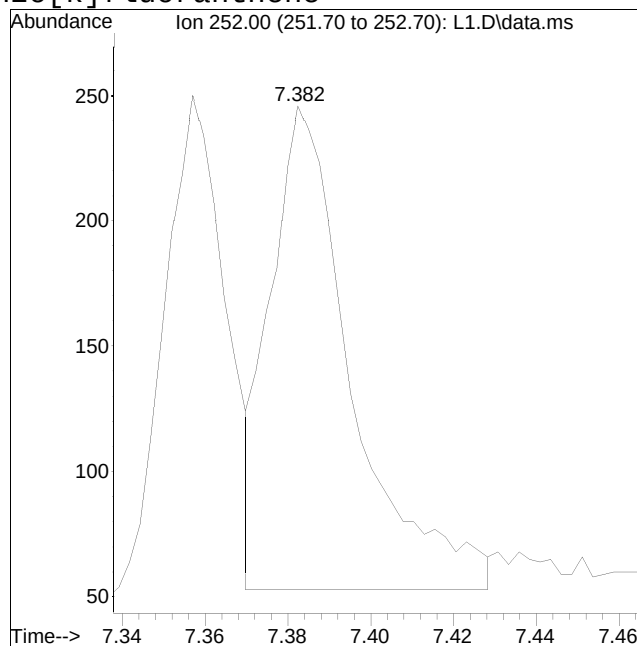
Data Path : I:\8270SIM\sv119\250625RVT01.M
Data File : L1.D
Date Inj'd : 6/25/2025 10:41 pm
Sample : IL1,32,,0.001 Lot# 11707
Method : SIM-RVT_250625_sv119.M
Operator : sv119:ljg
Instrument : SV119
Quant Date : 6/26/2025 7:47 am

Compound #40: Benzo[k]fluoranthene



Original Peak Response = 248

M4 = Poor automated baseline construction.

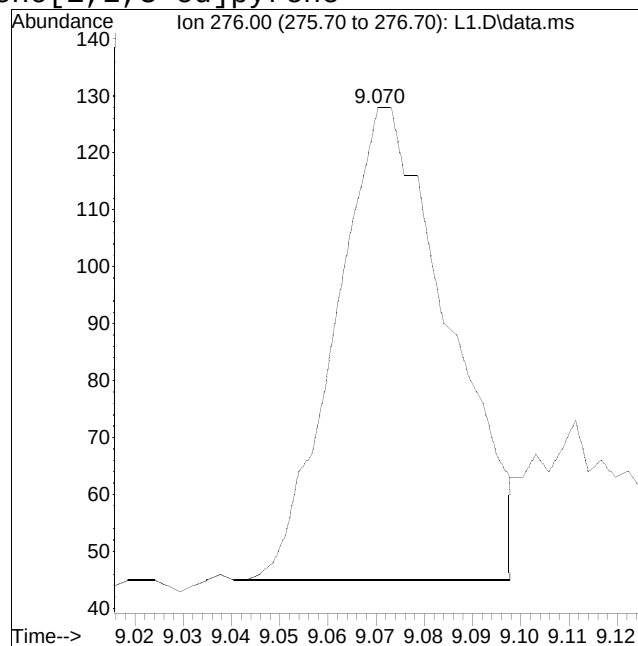
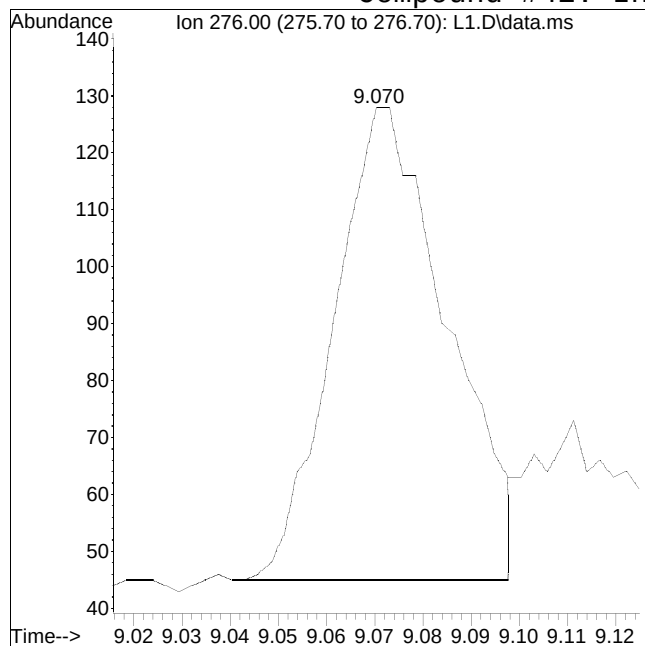


Manual Peak Response = 265 M4

Manual Integration Report

Data Path : I:\8270SIM\sv119\250625RVT01.M
Data File : L1.D
Date Inj'd : 6/25/2025 10:41 pm
Sample : IL1,32,,0.001 Lot# 11707
Method : SIM-RVT_250625_sv119.M
Operator : sv119:ljb
Instrument : SV119
Quant Date : 6/26/2025 7:47 am

Compound #42: Indeno[1,2,3-cd]pyrene



Original Peak Response = 136

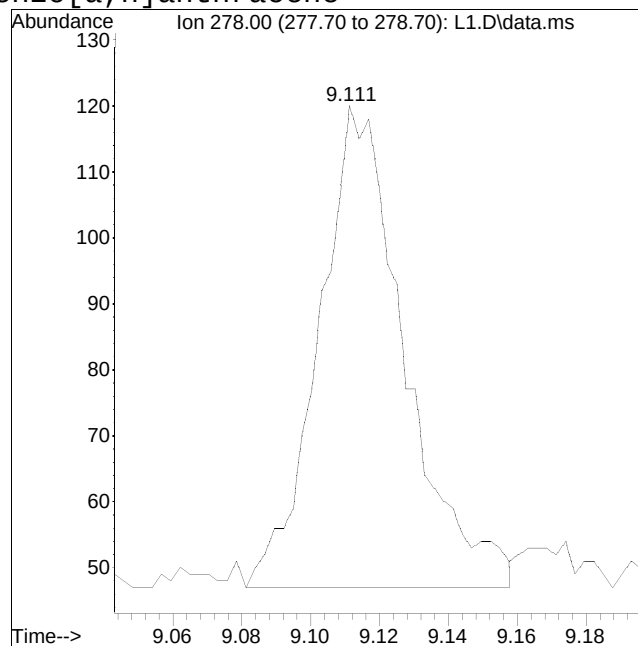
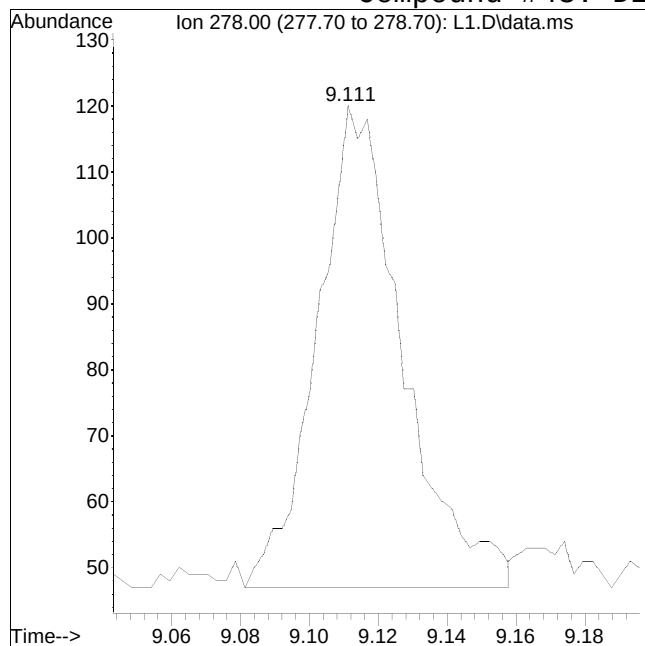
Manual Peak Response = 136 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

Data Path : I:\8270SIM\sv119\250625RVT01.M
Data File : L1.D
Date Inj'd : 6/25/2025 10:41 pm
Sample : IL1,32,,0.001 Lot# 11707
Method : SIM-RVT_250625_sv119.M
Operator : sv119:ljpg
Instrument : SV119
Quant Date : 6/26/2025 7:47 am

Compound #43: Dibenzo[a,h]anthracene



Original Peak Response = 126

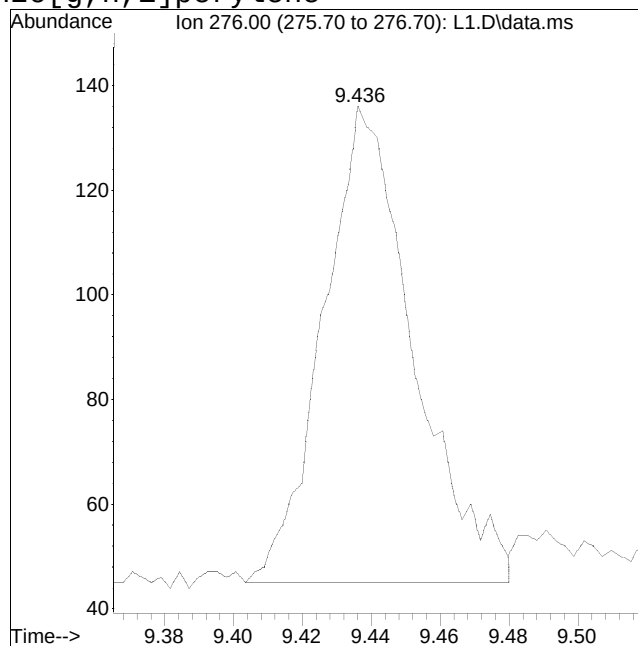
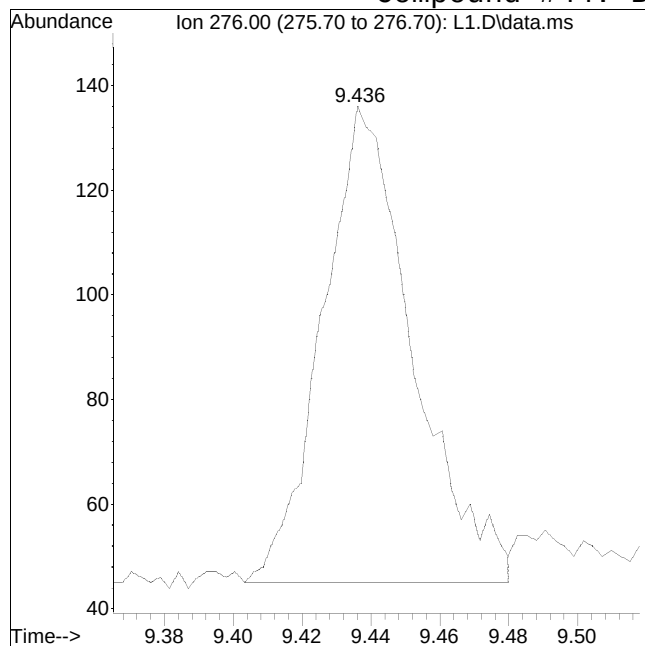
Manual Peak Response = 126 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

Manual Integration Report

Data Path : I:\8270SIM\sv119\250625RVT\data.ms
Data File : L1.D
Date Inj'd : 6/25/2025 10:41 pm
Sample : IL1,32,,0.001 Lot# 11707
Method : SIM-RVT_250625_sv119.M
Operator : sv119:ljb
Instrument : SV119
Quant Date : 6/26/2025 7:47 am

Compound #44: Benzo[g,h,i]perylene



Original Peak Response = 166

Manual Peak Response = 166 M7

M7 = A qualifier ion was manually integrated (only for GC/MS data).

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv119\250625RVTical\
 Data File : ICV.D
 Acq On : 25 Jun 2025 10:58 pm
 Operator : sv119:ljl
 Sample : CQICV1,32,,1 Lot# 11696
 Misc : WG2084288,,ical
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 27 08:30:22 2025
 Quant Method : I:\8270SIM\sv119\250625RVTical\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jun 27 08:31:19 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	122	0.00
2 T	N-Nitrosodimethylamine	0.682	0.684	-0.3	123	0.02
3 s	2-Fluorophenol	1.156	1.217	-5.3	135	0.01
4 s	Phenol-d6	1.436	1.504	-4.7	129	0.00
5 T	Bis(2-chloroethyl)ether	1.247	1.129	9.5	117	0.00
6 T	n-nitrosodi-n-propylamine	0.929	0.874	5.9	115	0.00
7 t	Hexachloroethane	0.514	0.502	2.3	121	0.00
8 s	Nitrobenzene-d5	1.315	1.254	4.6	119	0.00
9 i	Naphthalene-d8	1.000	1.000	0.0	117	0.00
10 t	Naphthalene	1.086	1.004	7.6	114	0.00
11 t	Hexachlorobutadiene	0.204	0.197	3.4	116	0.00
12 t	2-Methylnaphthalene	0.692	0.659	4.8	118	0.00
13 t	1-Methylnaphthalene	0.700	0.668	4.6	114	0.00
14 s	2-Fluorobiphenyl	0.896	0.874	2.5	116	0.00
15 t	2-Chloronaphthalene	0.753	0.731	2.9	114	0.00
16 t	2,6-Dinitrotoluene	0.162	0.163	-0.6	112	0.00
17 t	Acenaphthylene	1.266	1.246	1.6	113	0.00
18 i	Acenaphthene-d10	1.000	1.000	0.0	114	0.00
19 t	Acenaphthene	1.324	1.257	5.1	111	0.00
20 t	2,4-Dinitrotoluene	0.363	0.372	-2.5	111	0.00
21 t	Fluorene	1.596	1.508	5.5	109	0.00
22 s	2,4,6-Tribromophenol	0.230	0.250	-8.7	121	0.00
23 i	Phenanthrene-d10	1.000	1.000	0.0	111	0.00
24 T	4,6-Dinitro-o-cresol	*1000.000	1003.737	-0.4	122	0.00
25 t	Hexachlorobenzene	0.282	0.268	5.0	111	0.00
26 t	Pentachlorophenol	*1000.000	1029.669	-3.0	120	0.00
27 t	Phenanthrene	1.210	1.130	6.6	108	0.00
28 t	Anthracene	1.222	1.192	2.5	108	0.00
29 t	Fluoranthene	1.594	1.557	2.3	108	0.00
30 t	Pyrene	1.677	1.632	2.7	108	0.00
31 T	Benzidine	*1000.000	687.019	31.3#	77	0.00
32 s	4-Terphenyl-d14	1.106	1.092	1.3	108	0.00
33 i	Chrysene-d12	1.000	1.000	0.0	109	0.00
34 t	Benzo[a]anthracene	*1000.000	953.665	4.6	103	0.00
35 t	3,3'-Dichlorobenzidine	0.534	0.538	-0.7	100	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv119\250625RVTical\
 Data File : ICV.D
 Acq On : 25 Jun 2025 10:58 pm
 Operator : sv119:ljj
 Sample : CQICV1,32,,1 Lot# 11696
 Misc : WG2084288,,ical
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 27 08:30:22 2025
 Quant Method : I:\8270SIM\sv119\250625RVTical\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jun 27 08:31:19 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
36 t	Chrysene	1.304	1.280	1.8	106	0.00
37 T	Bis(2-ethylhexyl)phthalate	0.716	0.730	-2.0	107	0.00
38 i	Perylene-d12	1.000	1.000	0.0	105	0.00
39 t	Benzo[b]fluoranthene	1.105	1.054	4.6	91	0.00
40 t	Benzo[k]fluoranthene	1.278	1.389	-8.7	109	0.00
41 t	Benzo[a]pyrene	1.050	1.072	-2.1	96	0.00
42 t	Indeno[1,2,3-cd]pyrene	*1000.000	763.105	23.7#	79	0.00
43 t	Dibenzo[a,h]anthracene	*1000.000	830.401	17.0	86	0.00
44 t	Benzo[g,h,i]perylene	0.975	0.989	-1.4	95	-0.01

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250625RVTical\
 Data File : ICV.D
 Acq On : 25 Jun 2025 10:58 pm
 Operator : sv119:ljl
 Sample : CQICV1,32,,1 Lot# 11696
 Misc : WG2084288,,ical
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 27 08:30:22 2025
 Quant Method : I:\8270SIM\sv119\250625RVTical\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jun 27 08:31:19 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\250625RVTical\L8.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.360	152	176358	4000.000	ng/ml	0.00
Standard Area 1 = 144221			Recovery	=	122.28%	
9) Naphthalene-d8	3.022	136	665652	4000.000	ng/ml	0.00
Standard Area 1 = 566700			Recovery	=	117.46%	
18) Acenaphthene-d10	3.996	164	394370	4000.000	ng/ml	0.00
Standard Area 1 = 346174			Recovery	=	113.92%	
23) Phenanthrene-d10	4.840	188	800068	4000.000	ng/ml	0.00
Standard Area 1 = 720898			Recovery	=	110.98%	
33) Chrysene-d12	6.452	240	949210	4000.000	ng/ml	0.00
Standard Area 1 = 872550			Recovery	=	108.79%	
38) Perylene-d12	7.764	264	954465	4000.000	ng/ml	0.00
Standard Area 1 = 911236			Recovery	=	104.74%	
System Monitoring Compounds						
3) 2-Fluorophenol	1.766	112	53658	1052.902	ng/ml	0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery	=	52.65%	
4) Phenol-d6	2.161	99	66308	1047.503	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	=	52.38%	
8) Nitrobenzene-d5	2.639	82	55278	953.639	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	=	95.36%	
14) 2-Fluorobiphenyl	3.614	172	145502	975.463	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	=	97.55%	
22) 2,4,6-Tribromophenol	4.440	330	24680	1089.973	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	=	54.50%	
32) 4-Terphenyl-d14	5.770	244	218374	987.287	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	=	98.73%	
Target Compounds						
						Qvalue
2) N-Nitrosodimethylamine	1.312	74	30178	1003.305	ng/mL	79
5) Bis(2-chloroethyl)ether	2.220	93	49795	905.402	ng/ml	98
6) n-nitrosodi-n-propylamine	2.557	70	38524	940.192	ng/ml	99
7) Hexachloroethane	2.621	117	22134	977.510	ng/ml	98
10) Naphthalene	3.033	128	167044	924.027	ng/ml	100
11) Hexachlorobutadiene	3.105	225	32722	964.933	ng/ml	100
12) 2-Methylnaphthalene	3.410	142	109587	951.703	ng/ml	100
13) 1-Methylnaphthalene	3.466	142	111213	954.976	ng/ml	100
15) 2-Chloronaphthalene	3.681	162	121694	970.581	ng/ml	98
16) 2,6-Dinitrotoluene	3.870	165	27097	1002.226	ng/ml	98
17) Acenaphthylene	3.914	152	207347	984.460	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250625RVTical\
 Data File : ICV.D
 Acq On : 25 Jun 2025 10:58 pm
 Operator : sv119:ljj
 Sample : CQICV1,32,,1 Lot# 11696
 Misc : WG2084288,,ical
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 27 08:30:22 2025
 Quant Method : I:\8270SIM\sv119\250625RVTical\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jun 27 08:31:19 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270SIM\sv119\250625RVTical\L8.D
 Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
19)	Acenaphthene	4.011	153	123896	948.818	ng/ml	98
20)	2,4-Dinitrotoluene	4.097	165	36672	1024.355	ng/ml	99
21)	Fluorene	4.302	166	148665	944.731	ng/ml	99
24)	4,6-Dinitro-o-cresol	4.327	198	20469	1003.737	ng/ml	99
25)	Hexachlorobenzene	4.621	284	53569	949.748	ng/ml	96
26)	Pentachlorophenol	4.732	266	23748	1029.669	ng/ml	100
27)	Phenanthrene	4.852	178	226030	934.007	ng/ml	100
28)	Anthracene	4.881	178	238348	975.313	ng/ml	100
29)	Fluoranthene	5.542	202	311379	976.860	ng/ml	99
30)	Pyrene	5.675	202	326454	973.207	ng/ml	100
31)	Benizidine	5.615	184	109066	687.019	ng/mL	100
34)	Benzo[a]anthracene	6.443	228	308276	953.665	ng/ml	100
35)	3,3'-Dichlorobenzidine	6.423	252	127612	1007.239	ng/ml	100
36)	Chrysene	6.469	228	303757	981.744	ng/ml	100
37)	Bis(2-ethylhexyl)phtha...	6.465	149	173316	1020.139	ng/ml	99
39)	Benzo[b]fluoranthene	7.357	252	251570	953.932	ng/ml	98
40)	Benzo[k]fluoranthene	7.382	252	331327M1	1086.304	ng/ml	
41)	Benzo[a]pyrene	7.695	252	255832	1021.068	ng/ml	100
42)	Indeno[1,2,3-cd]pyrene	9.081	276	169376	763.105	ng/ml	98
43)	Dibenzo[a,h]anthracene	9.117	278	189715M4	830.401	ng/ml	
44)	Benzo[g,h,i]perylene	9.447	276	236052	1014.330	ng/ml	99

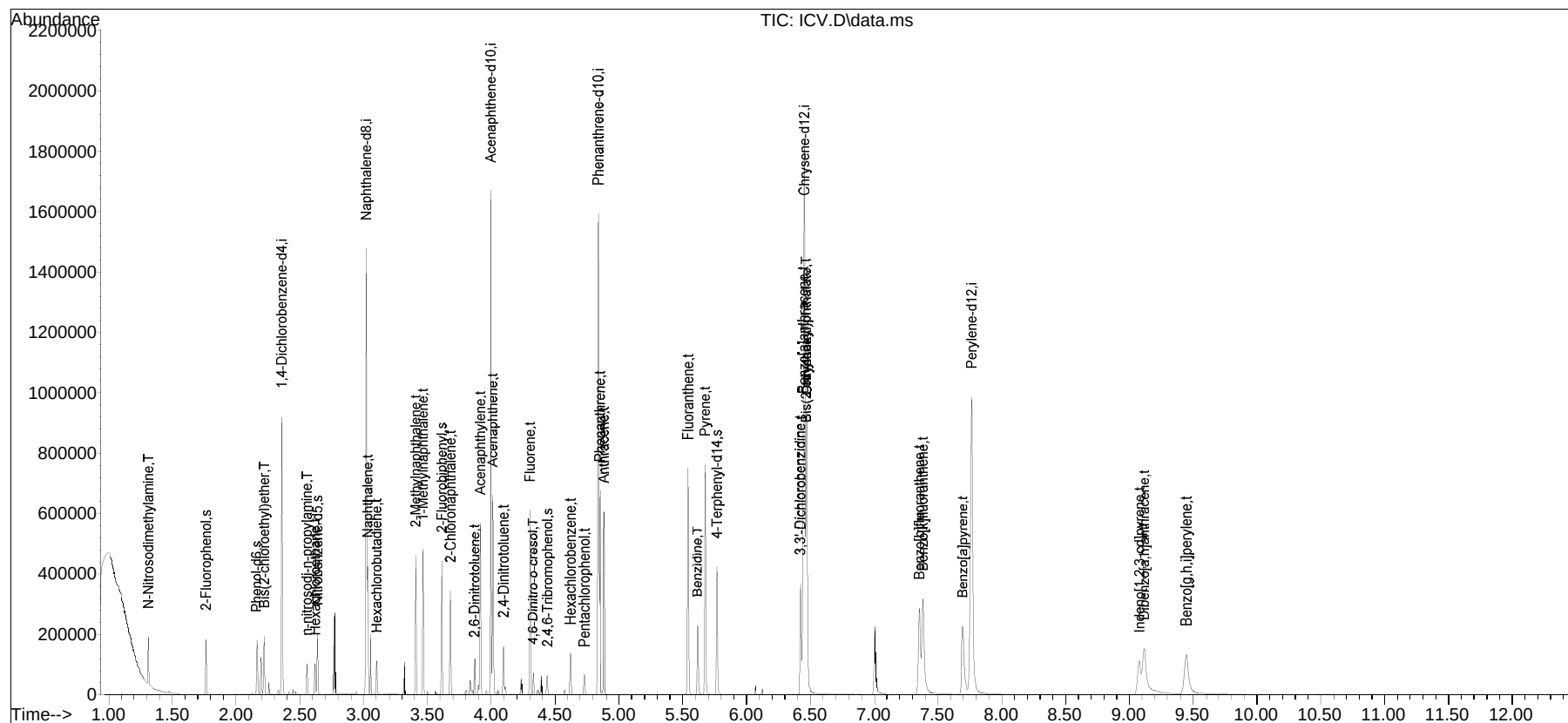
(#) = qualifier out of range (m) = manual integration (+) = signals summed

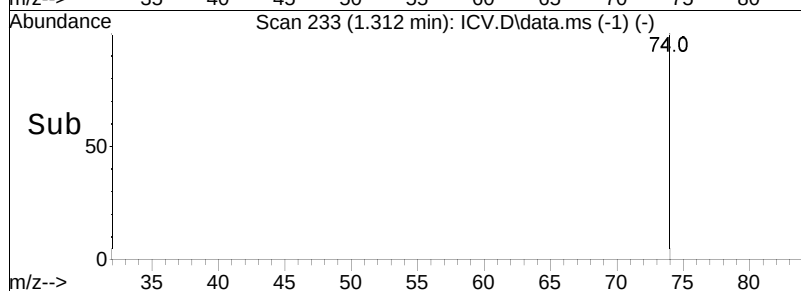
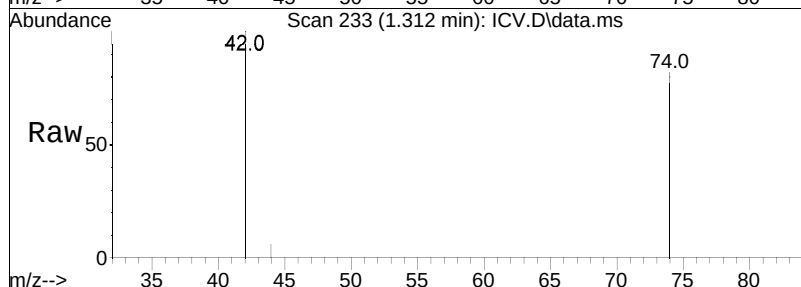
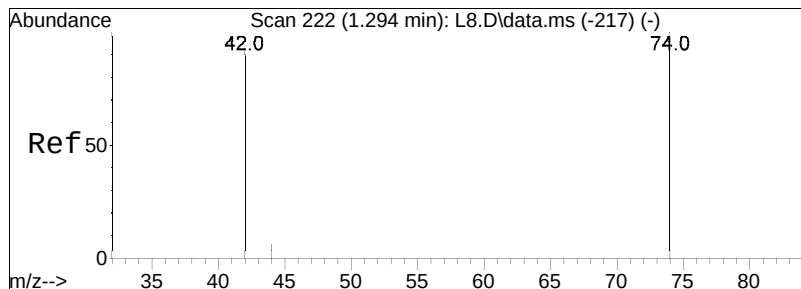
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250625RVTical\
 Data File : ICV.D
 Acq On : 25 Jun 2025 10:58 pm
 Operator : sv119:ljg
 Sample : CQICV1,32,,1 Lot# 11696
 Misc : WG2084288,,ical
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 27 08:30:22 2025
 Quant Method : I:\8270SIM\sv119\250625RVTical\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jun 27 08:31:19 2025
 Response via : Initial Calibration

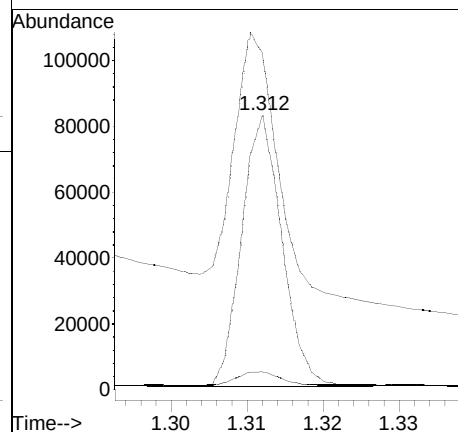
Sub List : Default - All compounds listedical\L8.D•

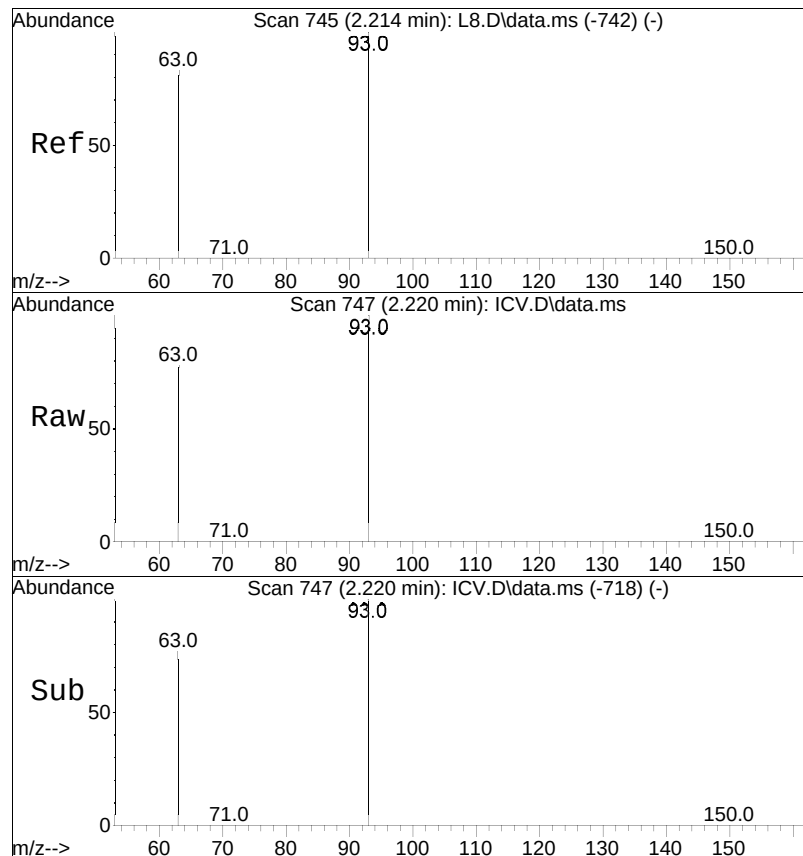




#2
 N-Nitrosodimethylamine
 Concen: 1003.31 ng/mL
 RT: 1.312 min Scan# 233
 Delta R.T. 0.018 min
 Lab File: ICV.D
 Acq: 25 Jun 2025 10:58 pm

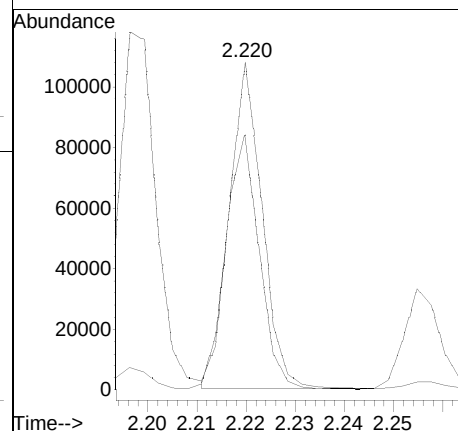
Tgt Ion: 74 Resp: 30178
 Ion Ratio Lower Upper
 74 100
 42 414.7 293.4 440.0
 44 5.6 4.3 6.5

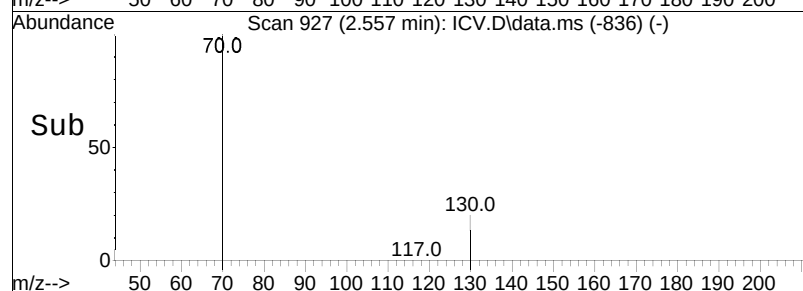
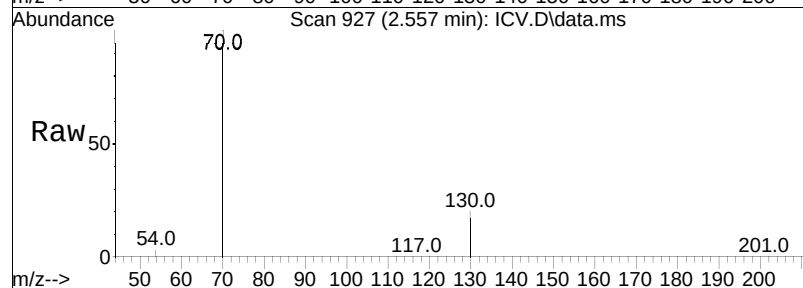
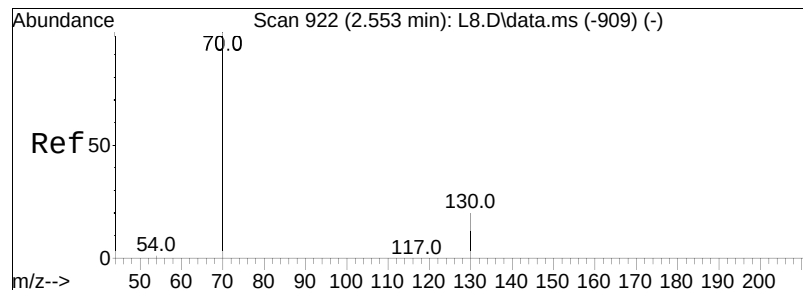




#5
 Bis(2-chloroethyl)ether
 Concen: 905.40 ng/ml
 RT: 2.220 min Scan# 747
 Delta R.T. 0.006 min
 Lab File: ICV.D
 Acq: 25 Jun 2025 10:58 pm

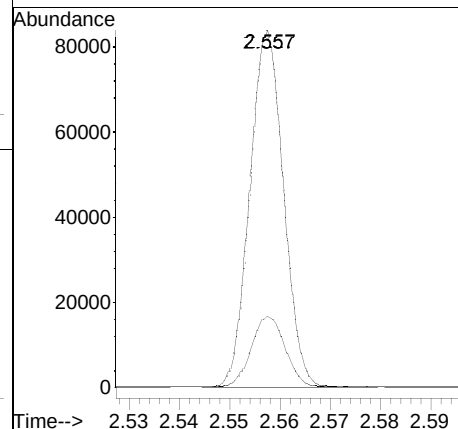
Tgt Ion	Ratio	Lower	Upper
93	100		
63	80.2	62.9	94.3

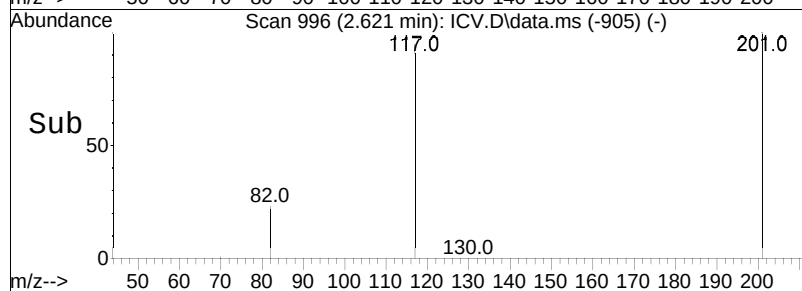
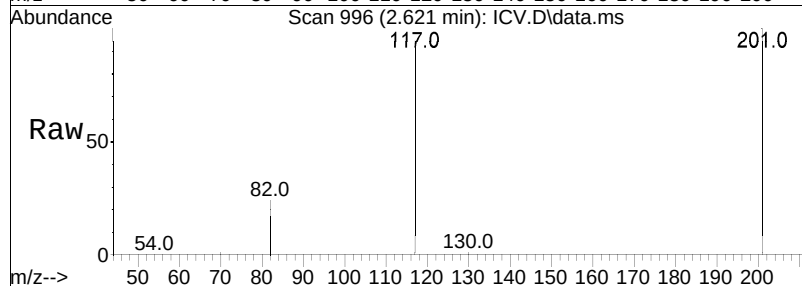
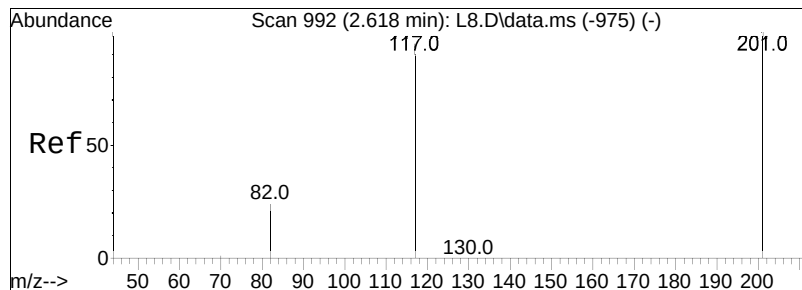




#6
 n-nitrosodi-n-propylamine
 Concen: 940.19 ng/ml
 RT: 2.557 min Scan# 927
 Delta R.T. 0.004 min
 Lab File: ICV.D
 Acq: 25 Jun 2025 10:58 pm

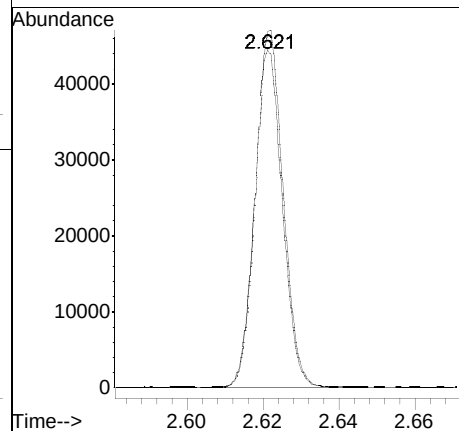
Tgt Ion	Ratio	Lower	Upper
70	100		
130	20.0	16.4	24.6

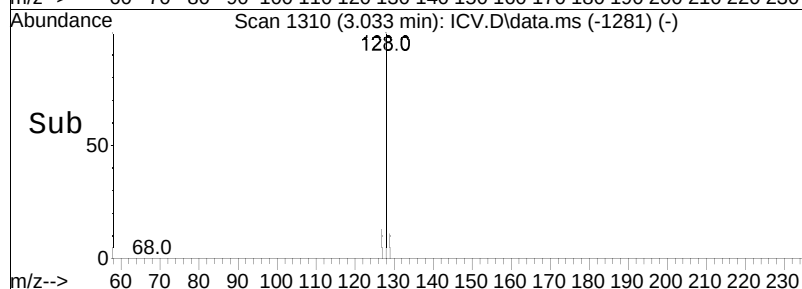
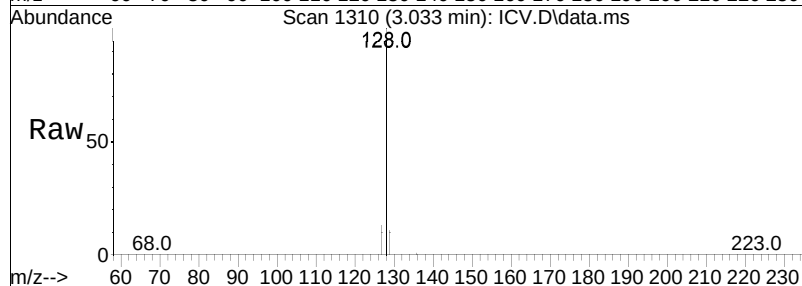
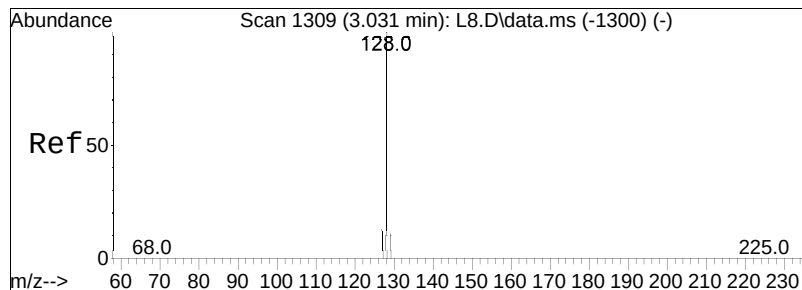




#7
 Hexachloroethane
 Concen: 977.51 ng/ml
 RT: 2.621 min Scan# 996
 Delta R.T. 0.003 min
 Lab File: ICV.D
 Acq: 25 Jun 2025 10:58 pm

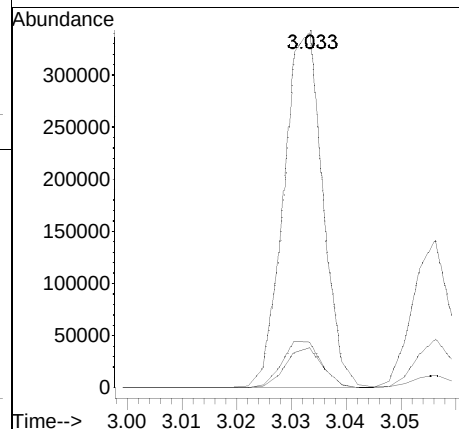
Tgt Ion	Ratio	Lower	Upper
117	100		
201	105.8	82.9	124.3

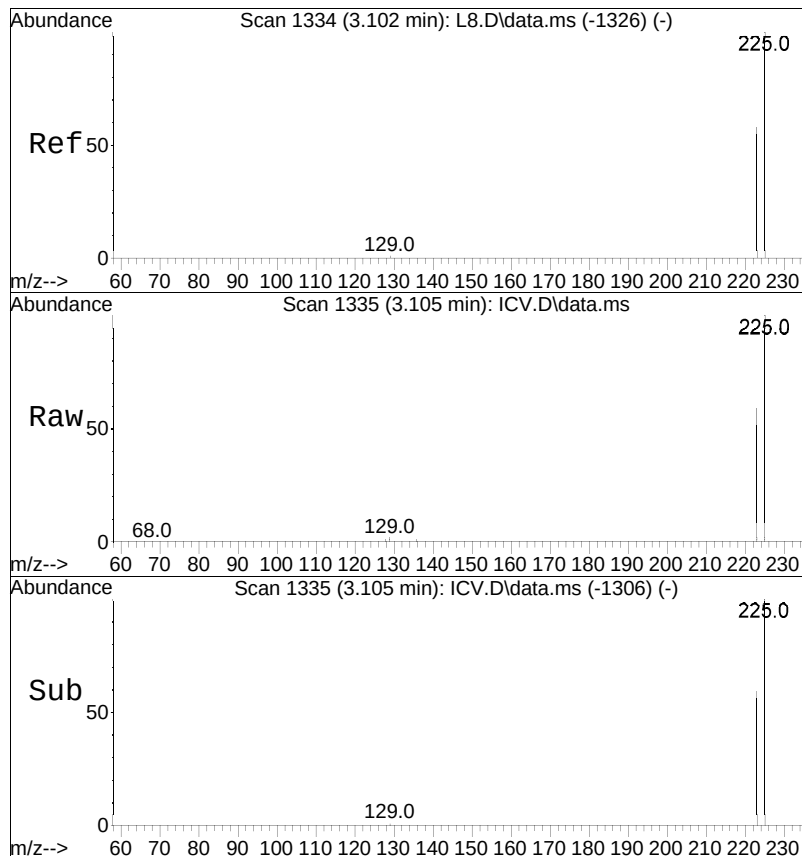




#10
Naphthalene
Concen: 924.03 ng/ml
RT: 3.033 min Scan# 1310
Delta R.T. 0.002 min
Lab File: ICV.D
Acq: 25 Jun 2025 10:58 pm

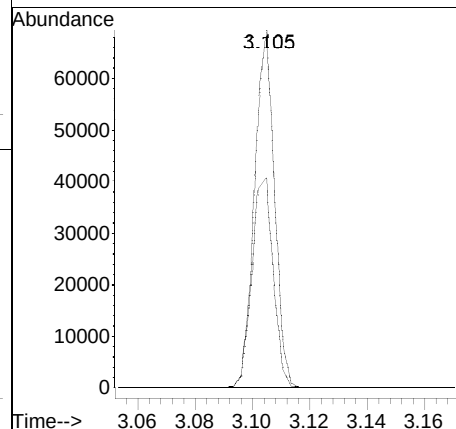
Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.8	13.2
127	13.4	10.6	15.8

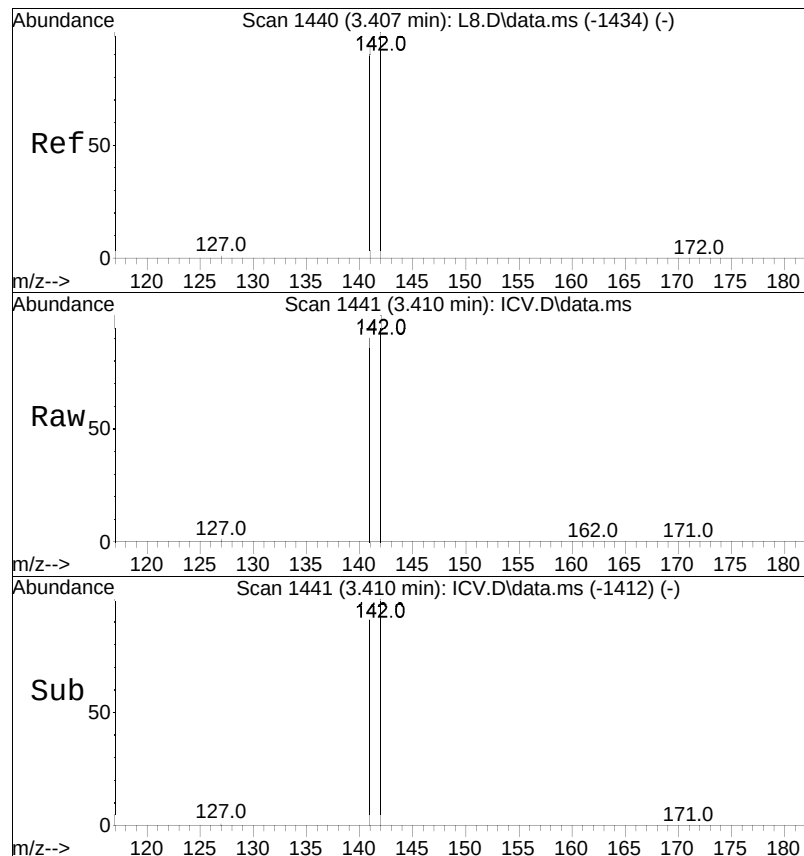




#11
 Hexachlorobutadiene
 Concen: 964.93 ng/ml
 RT: 3.105 min Scan# 1335
 Delta R.T. 0.003 min
 Lab File: ICV.D
 Acq: 25 Jun 2025 10:58 pm

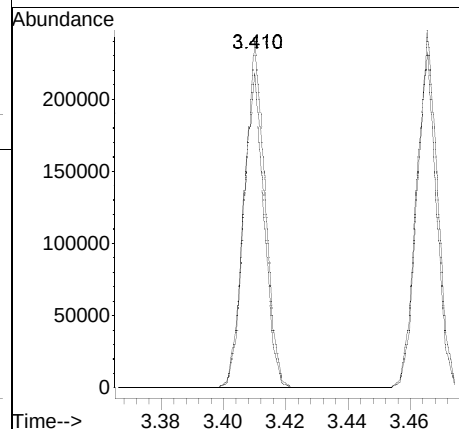
Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.9	50.2	75.4

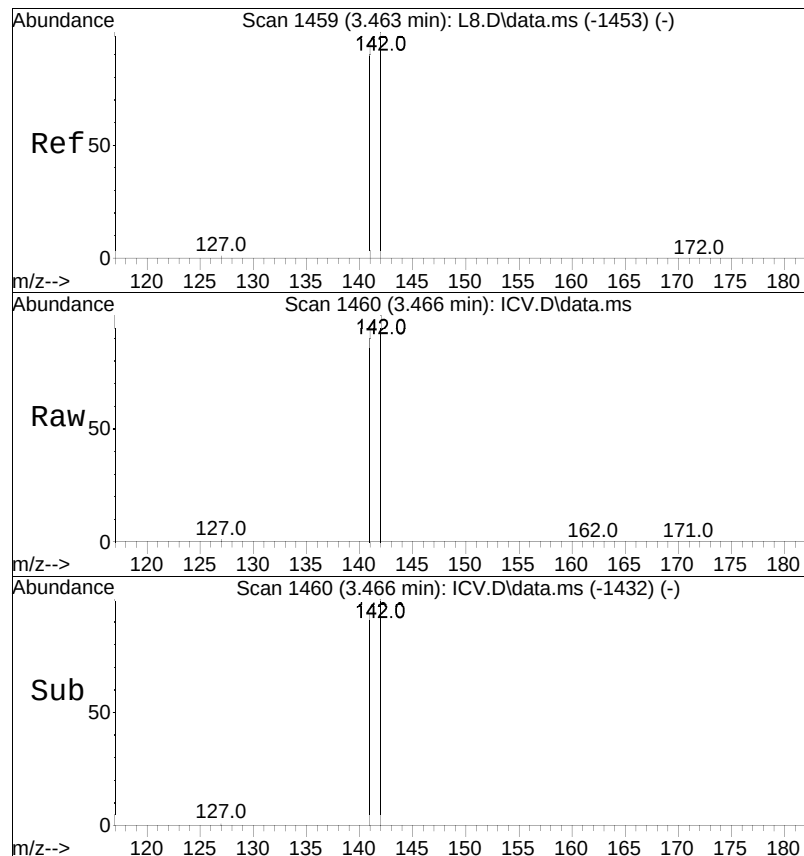




#12
 2-Methylnaphthalene
 Concen: 951.70 ng/ml
 RT: 3.410 min Scan# 1441
 Delta R.T. 0.003 min
 Lab File: ICV.D
 Acq: 25 Jun 2025 10:58 pm

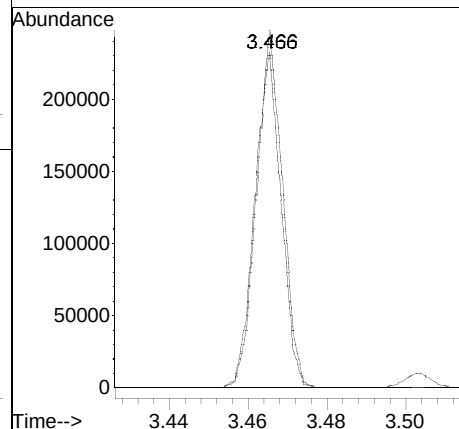
Tgt Ion	Ratio	Lower	Upper
142	100		
141	91.8	73.6	110.4

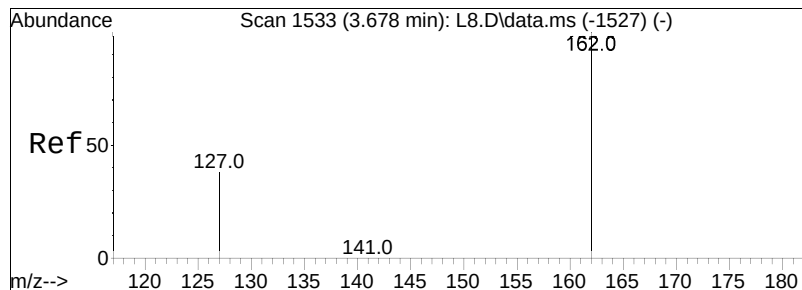




#13
 1-Methylnaphthalene
 Concen: 954.98 ng/ml
 RT: 3.466 min Scan# 1460
 Delta R.T. 0.003 min
 Lab File: ICV.D
 Acq: 25 Jun 2025 10:58 pm

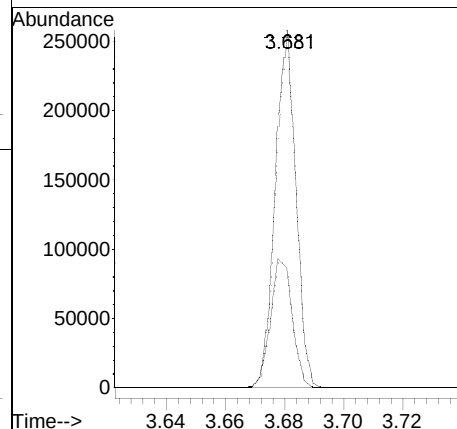
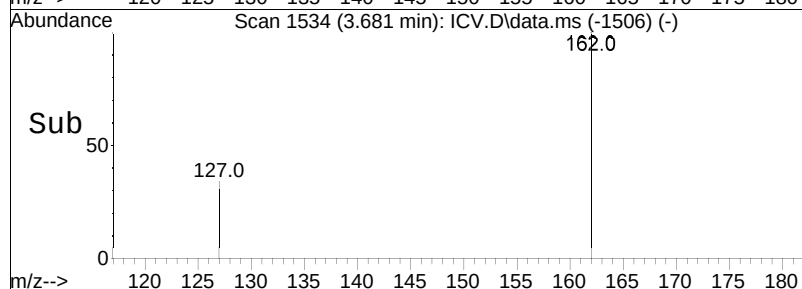
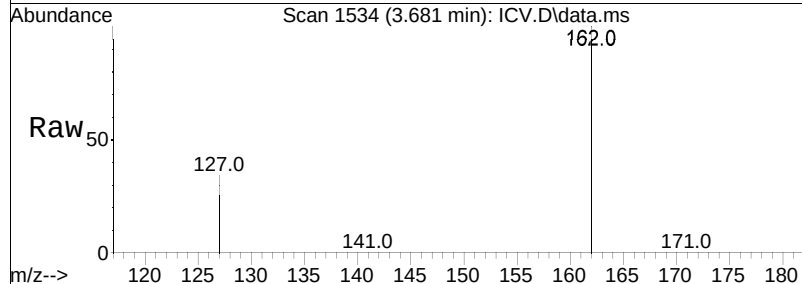
Tgt Ion	Ratio	Lower	Upper
142	100		
141	95.2	76.0	114.0

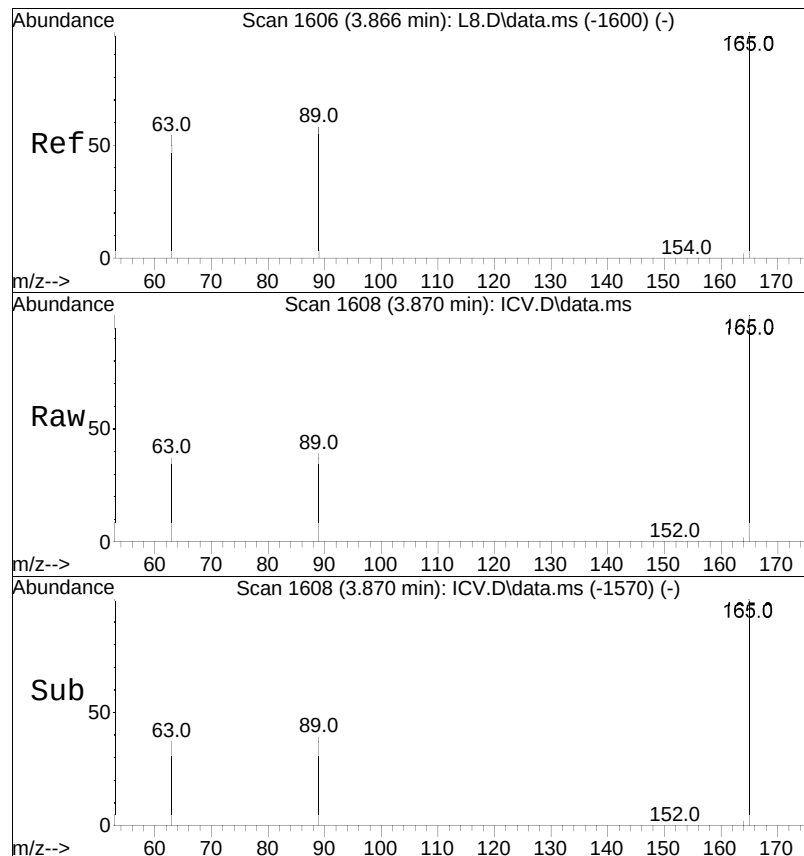




#15
 2-Chloronaphthalene
 Concen: 970.58 ng/ml
 RT: 3.681 min Scan# 1534
 Delta R.T. 0.003 min
 Lab File: ICV.D
 Acq: 25 Jun 2025 10:58 pm

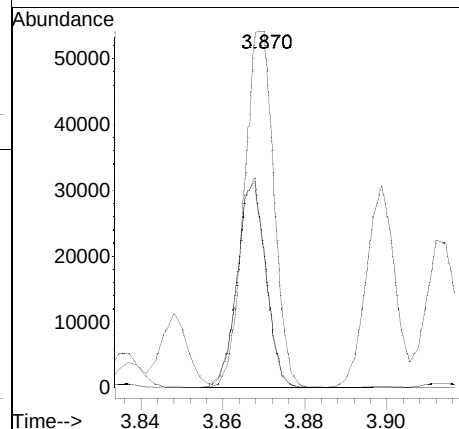
Tgt Ion	Ratio	Lower	Upper
162	100		
127	38.3	29.8	44.8

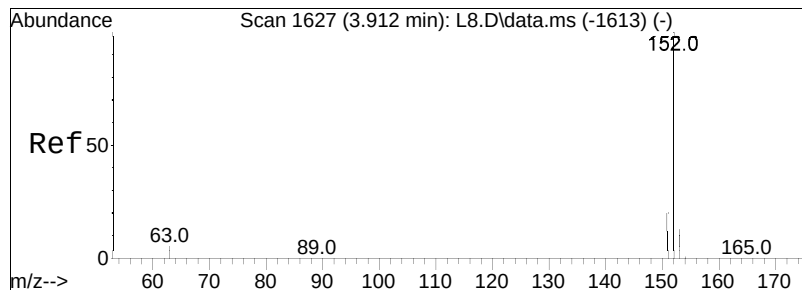




#16
 2,6-Dinitrotoluene
 Concen: 1002.23 ng/ml
 RT: 3.870 min Scan# 1608
 Delta R.T. 0.004 min
 Lab File: ICV.D
 Acq: 25 Jun 2025 10:58 pm

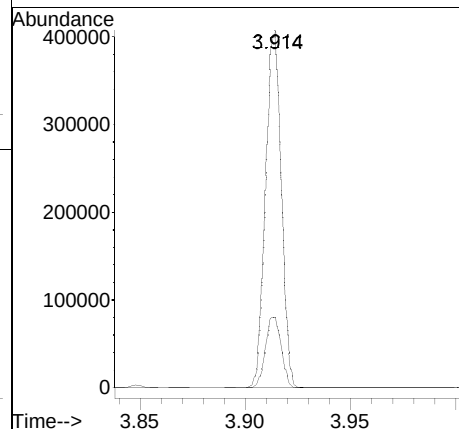
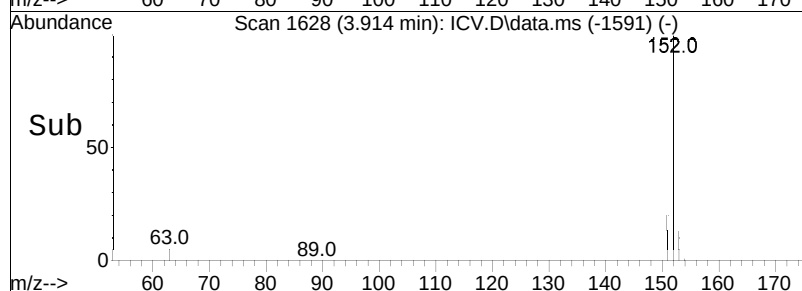
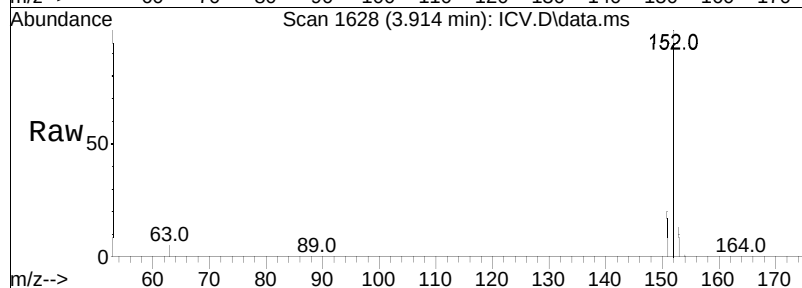
Tgt Ion:	165	Resp:	27097
Ion Ratio	Lower	Upper	
165	100		
89	55.9	45.6	68.4
63	55.3	45.4	68.2

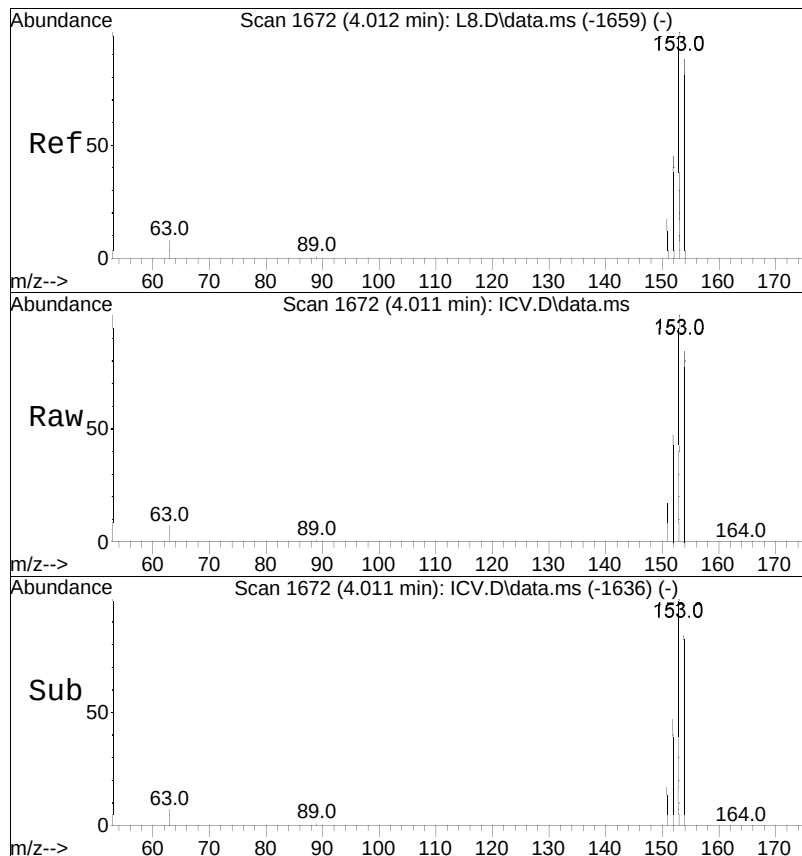




#17
 Acenaphthylene
 Concen: 984.46 ng/ml
 RT: 3.914 min Scan# 1628
 Delta R.T. 0.002 min
 Lab File: ICV.D
 Acq: 25 Jun 2025 10:58 pm

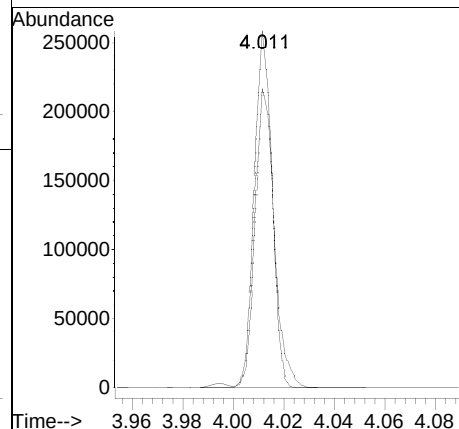
Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.2

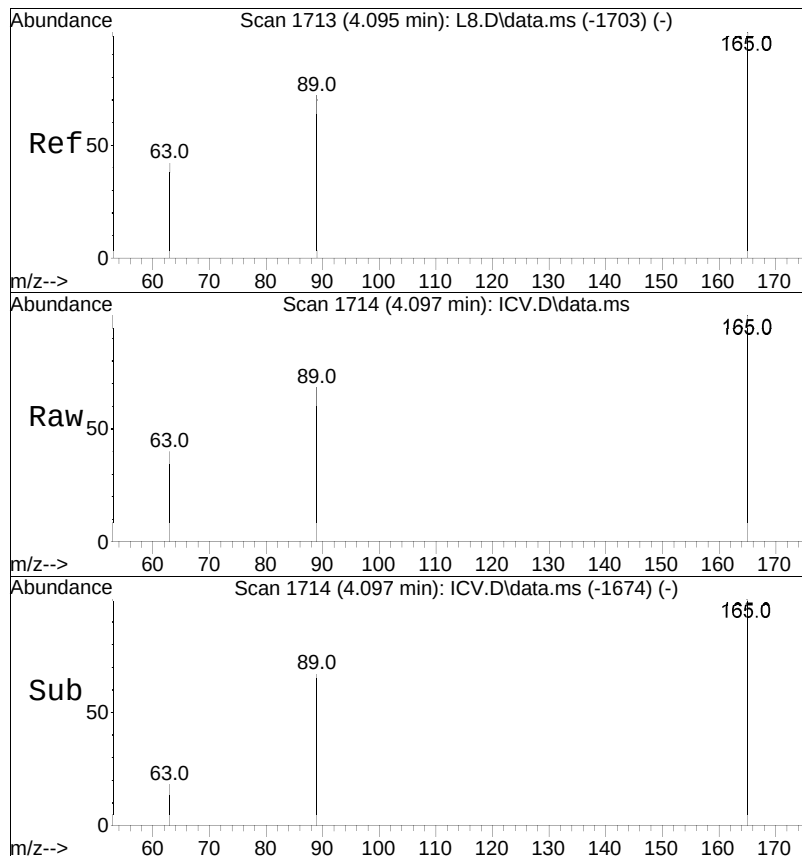




#19
 Acenaphthene
 Concen: 948.82 ng/ml
 RT: 4.011 min Scan# 1672
 Delta R.T. -0.001 min
 Lab File: ICV.D
 Acq: 25 Jun 2025 10:58 pm

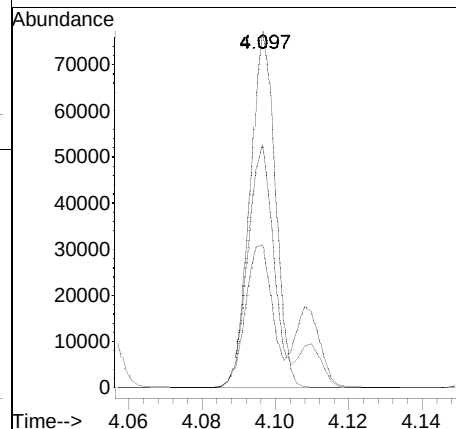
Tgt Ion	Ratio	Lower	Upper
153	100		
154	91.5	72.0	108.0

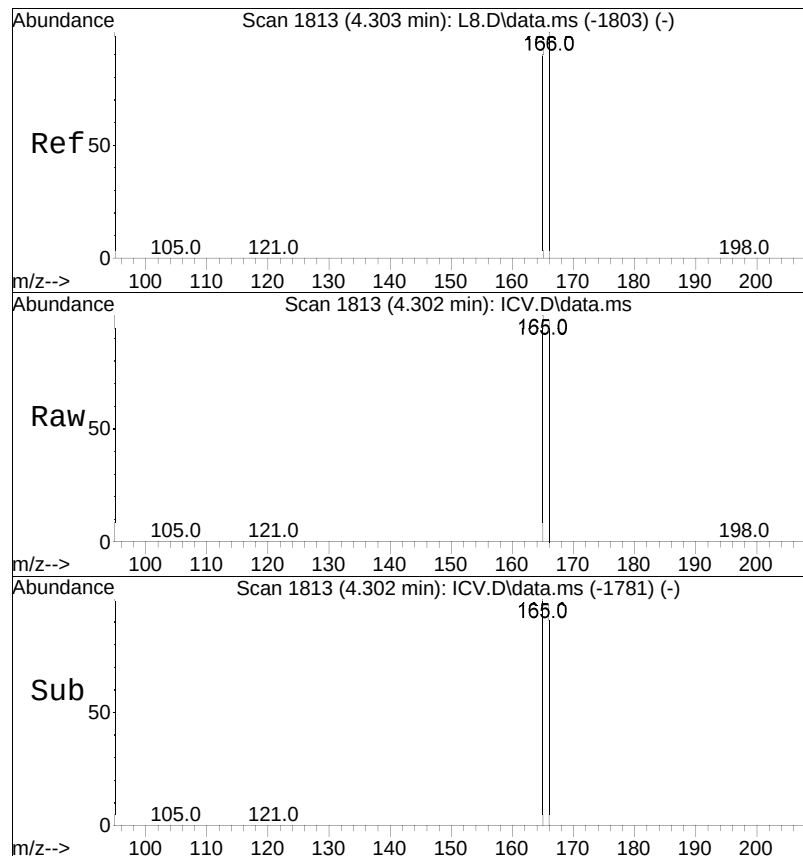




#20
 2,4-Dinitrotoluene
 Concen: 1024.35 ng/ml
 RT: 4.097 min Scan# 1714
 Delta R.T. 0.002 min
 Lab File: ICV.D
 Acq: 25 Jun 2025 10:58 pm

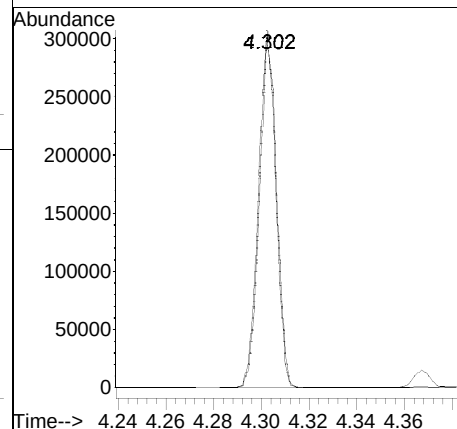
Tgt Ion:	165	Resp:	36672
Ion Ratio	Lower	Upper	
165	100		
89	69.8	56.6	85.0
63	42.8	35.0	52.6

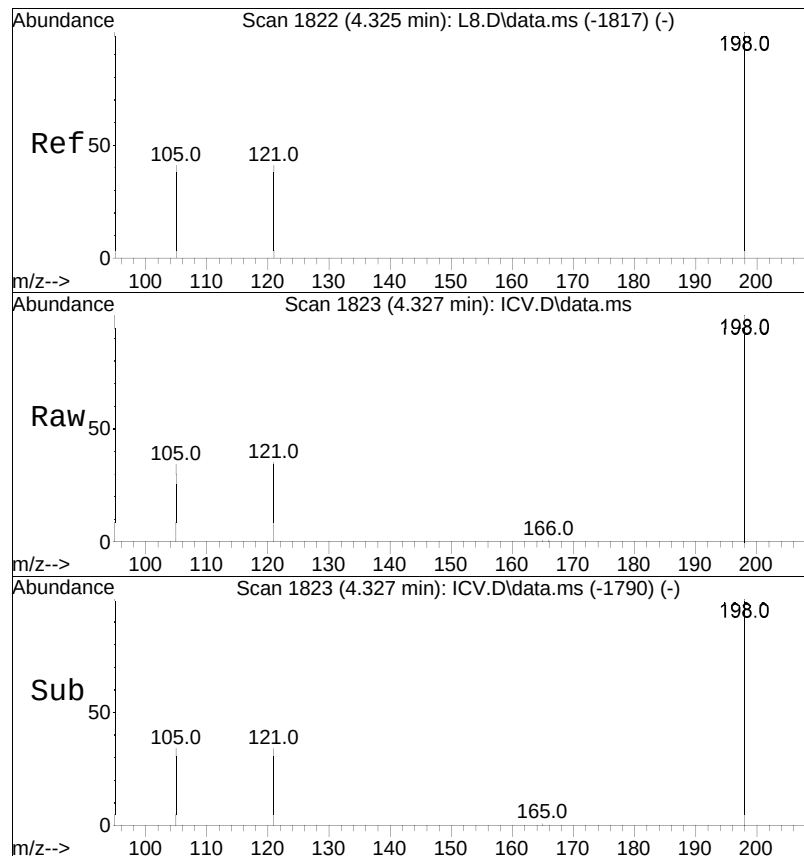




#21
 Fluorene
 Concen: 944.73 ng/ml
 RT: 4.302 min Scan# 1813
 Delta R.T. -0.001 min
 Lab File: ICV.D
 Acq: 25 Jun 2025 10:58 pm

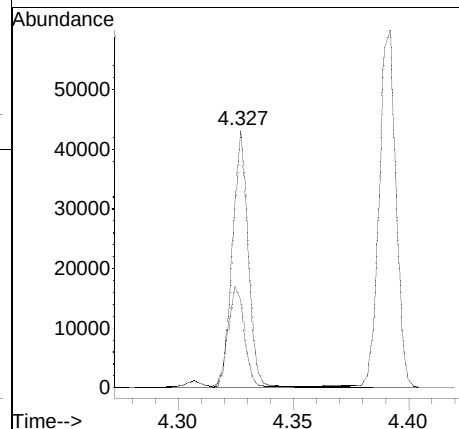
Tgt Ion	Ratio	Lower	Upper
166	100		
165	101.4	81.5	122.3

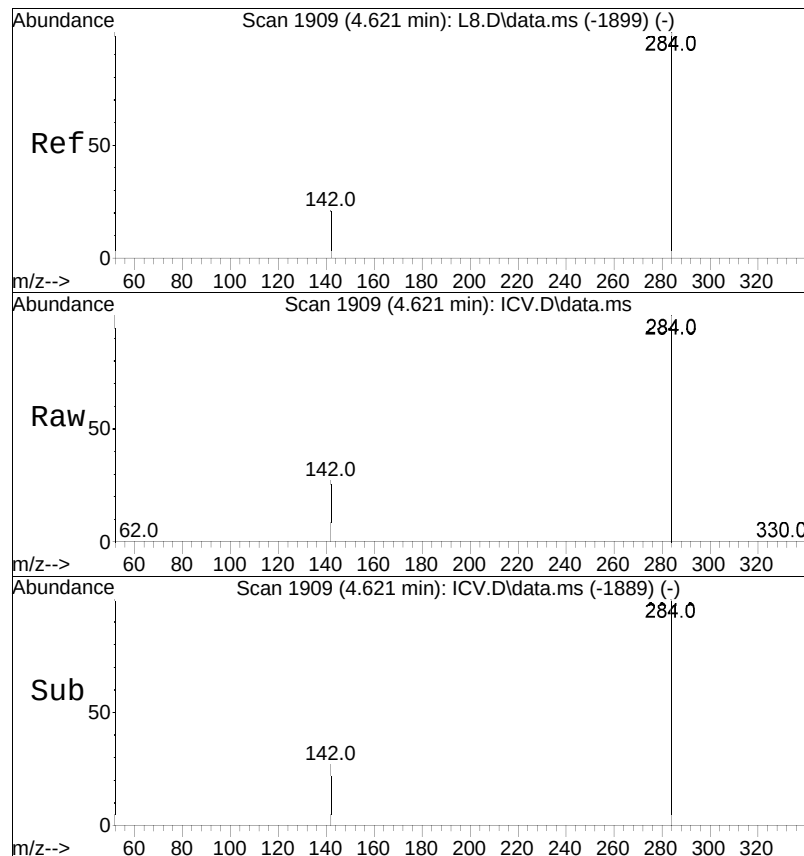




#24
 4,6-Dinitro-o-cresol
 Concen: 1003.74 ng/ml
 RT: 4.327 min Scan# 1823
 Delta R.T. 0.002 min
 Lab File: ICV.D
 Acq: 25 Jun 2025 10:58 pm

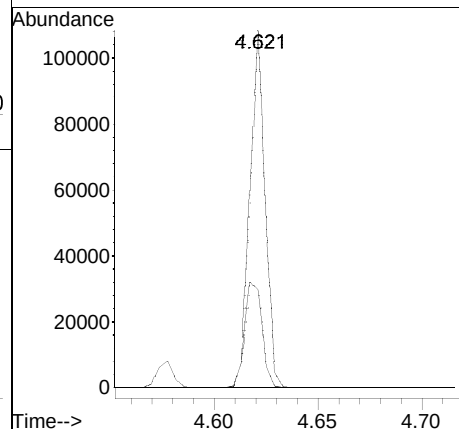
Tgt Ion	Ratio	Lower	Upper
198	100		
105	40.5	32.1	48.1

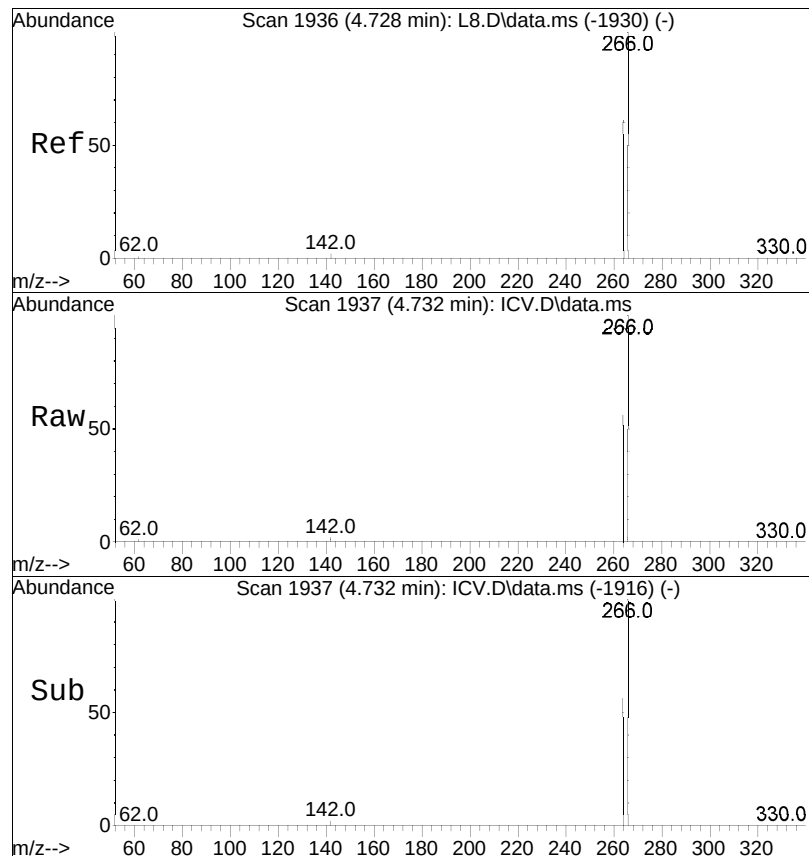




#25
 Hexachlorobenzene
 Concen: 949.75 ng/ml
 RT: 4.621 min Scan# 1909
 Delta R.T. 0.000 min
 Lab File: ICV.D
 Acq: 25 Jun 2025 10:58 pm

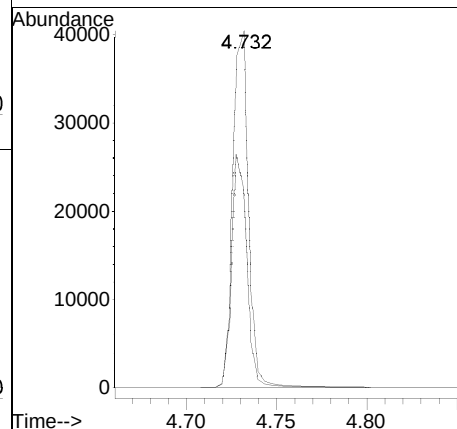
Tgt Ion	Ratio	Lower	Upper
284	100		
142	33.9	28.8	43.2

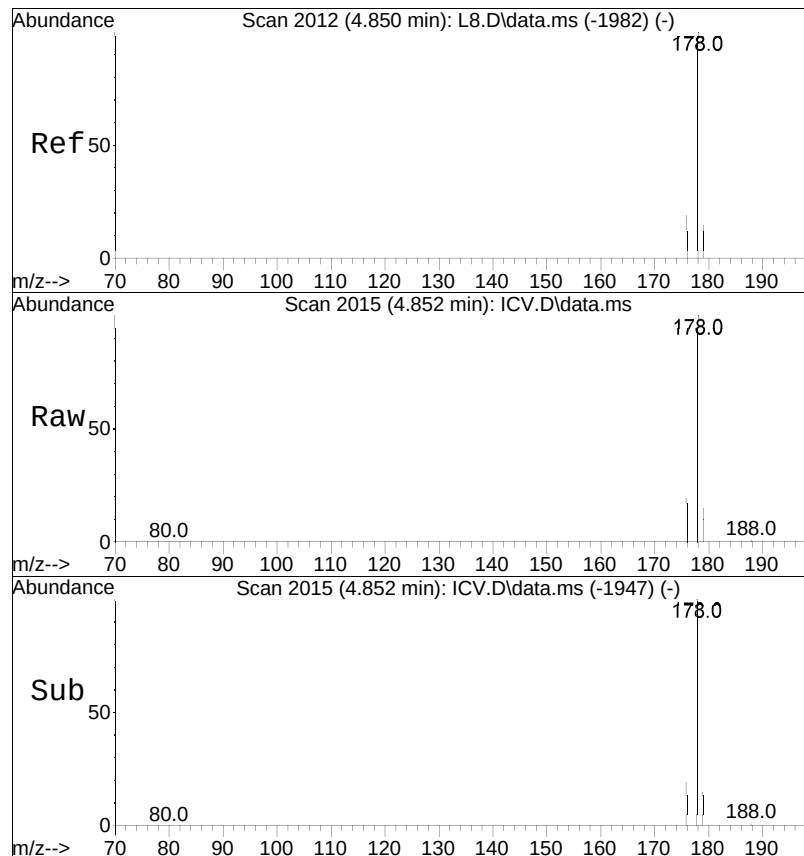




#26
 Pentachlorophenol
 Concen: 1029.67 ng/ml
 RT: 4.732 min Scan# 1937
 Delta R.T. 0.004 min
 Lab File: ICV.D
 Acq: 25 Jun 2025 10:58 pm

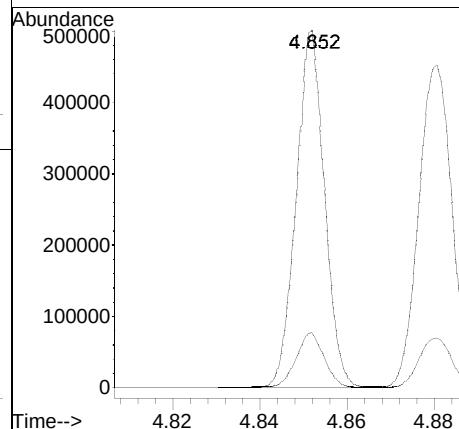
Tgt Ion	Ratio	Lower	Upper
266	100		
264	63.4	50.6	76.0

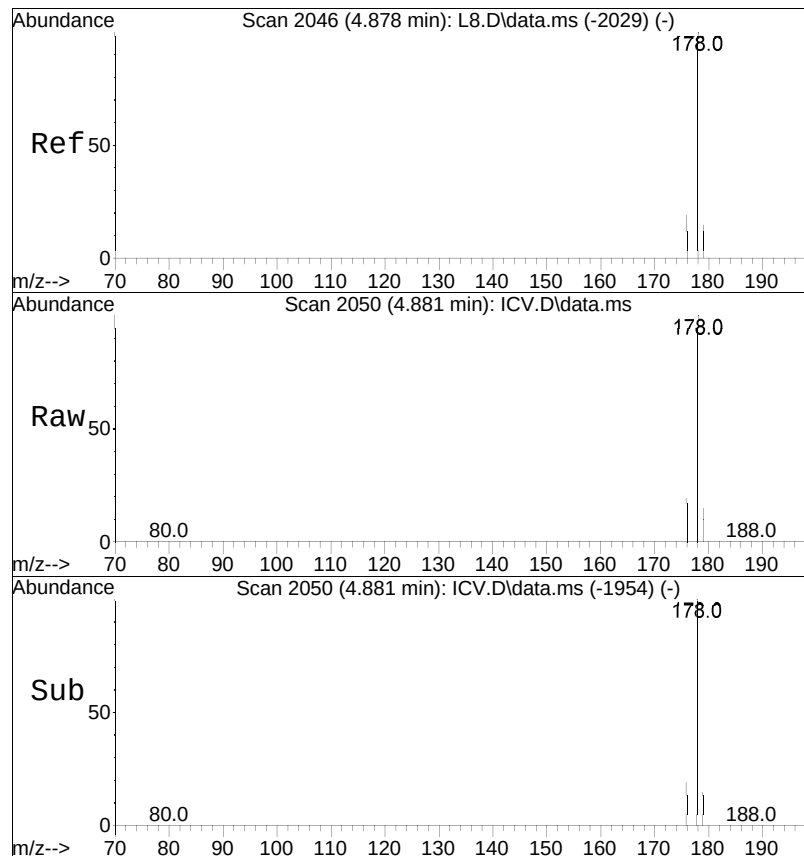




#27
 Phenanthrene
 Concen: 934.01 ng/ml
 RT: 4.852 min Scan# 2015
 Delta R.T. 0.002 min
 Lab File: ICV.D
 Acq: 25 Jun 2025 10:58 pm

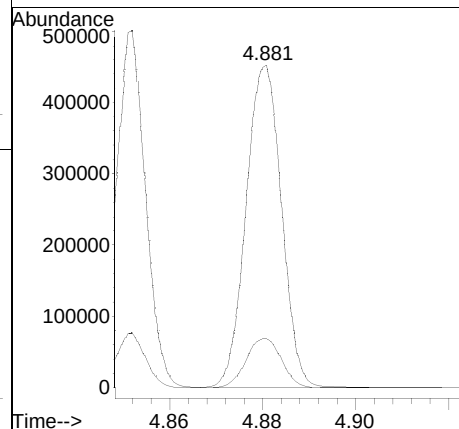
Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.4	18.6

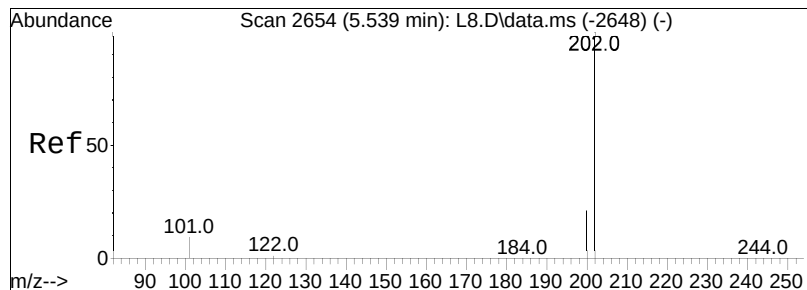




#28
 Anthracene
 Concen: 975.31 ng/ml
 RT: 4.881 min Scan# 2050
 Delta R.T. 0.003 min
 Lab File: ICV.D
 Acq: 25 Jun 2025 10:58 pm

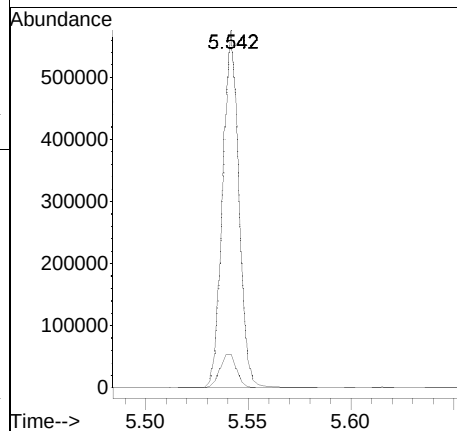
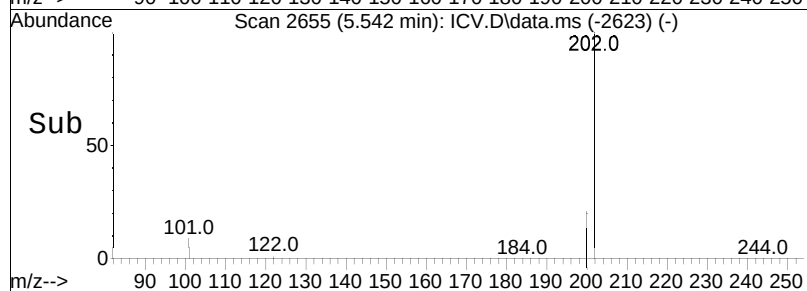
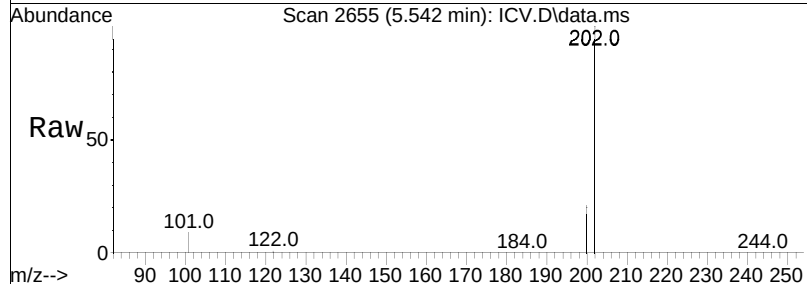
Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.2	18.2

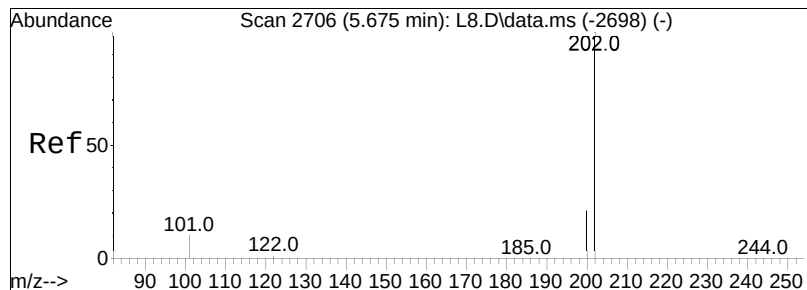




#29
 Fluoranthene
 Concen: 976.86 ng/ml
 RT: 5.542 min Scan# 2655
 Delta R.T. 0.003 min
 Lab File: ICV.D
 Acq: 25 Jun 2025 10:58 pm

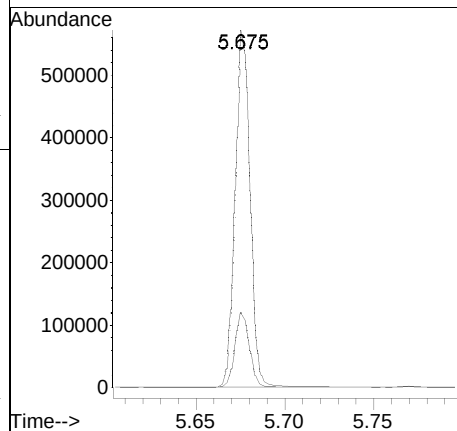
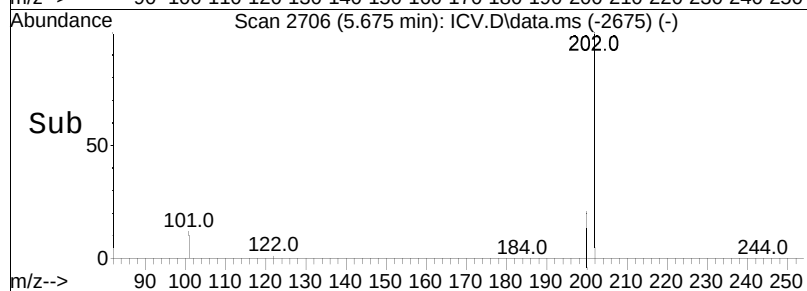
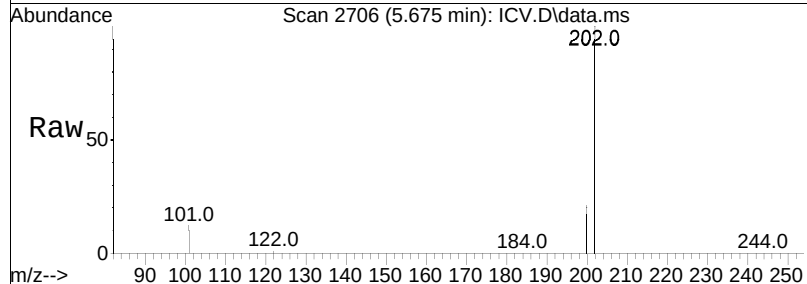
Tgt	Ion	Ratio	Lower	Upper
202	100			
101	9.8	7.5	11.3	

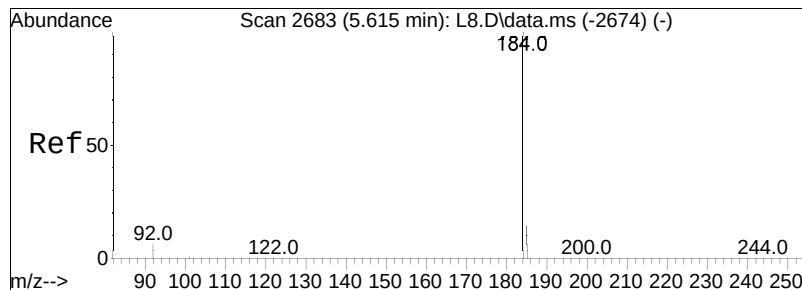




#30
 Pyrene
 Concen: 973.21 ng/ml
 RT: 5.675 min Scan# 2706
 Delta R.T. 0.000 min
 Lab File: ICV.D
 Acq: 25 Jun 2025 10:58 pm

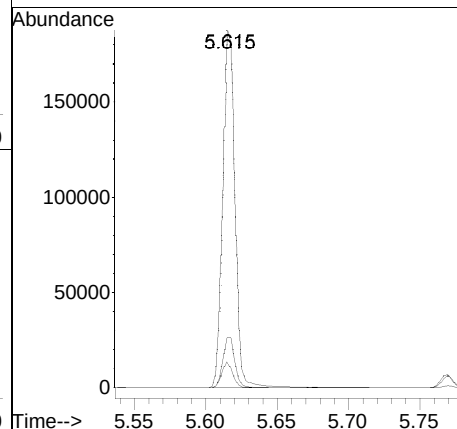
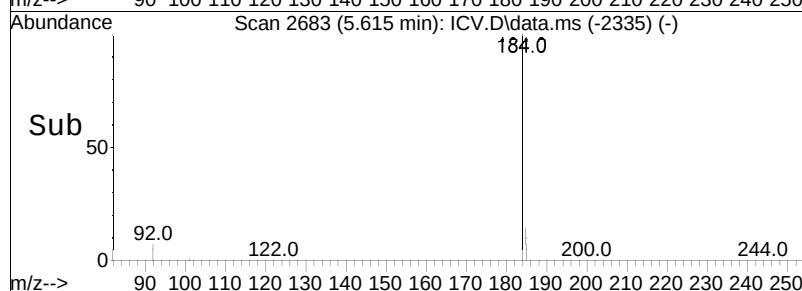
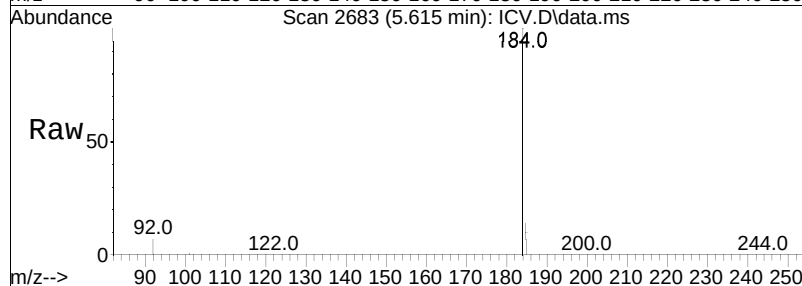
Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.0	25.4

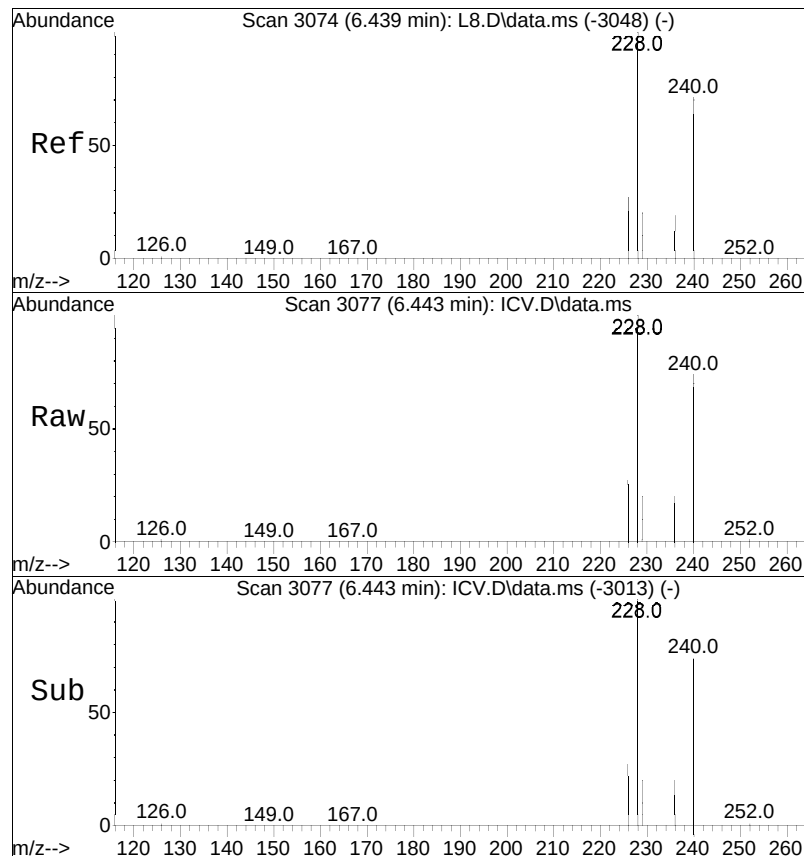




#31
Benzidine
Concen: 687.02 ng/mL
RT: 5.615 min Scan# 2683
Delta R.T. 0.000 min
Lab File: ICV.D
Acq: 25 Jun 2025 10:58 pm

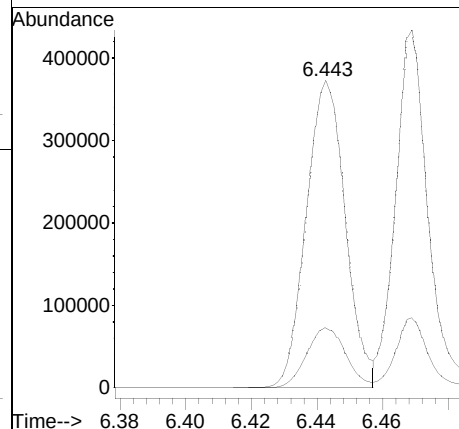
Tgt Ion	Ratio	Resp	Lower	Upper
184	100	109066		
92	6.7		5.2	7.8
185	14.1		11.2	16.8

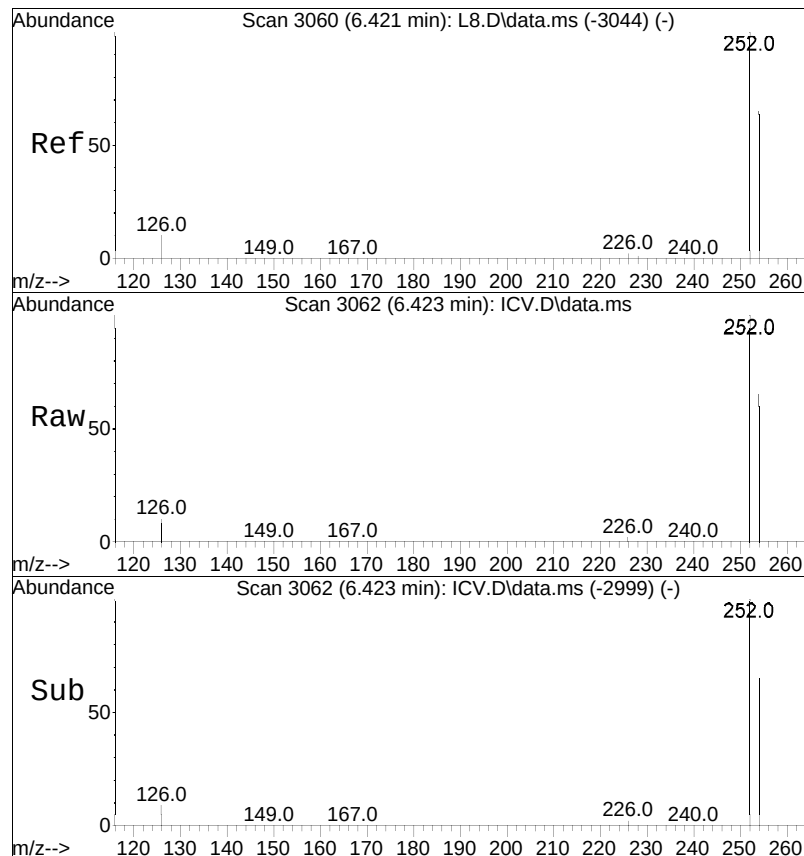




#34
 Benzo[a]anthracene
 Concen: 953.66 ng/ml
 RT: 6.443 min Scan# 3077
 Delta R.T. 0.004 min
 Lab File: ICV.D
 Acq: 25 Jun 2025 10:58 pm

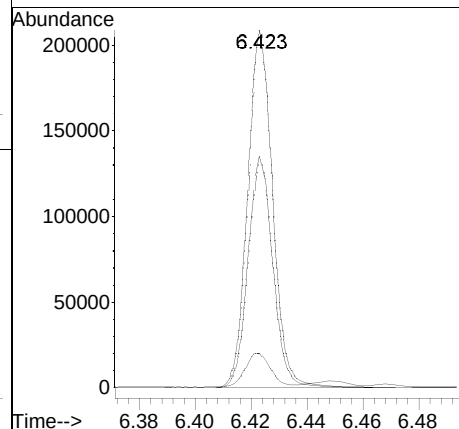
Tgt	Ion	Ratio	Lower	Upper
228	100			
229	19.7	15.8	23.6	

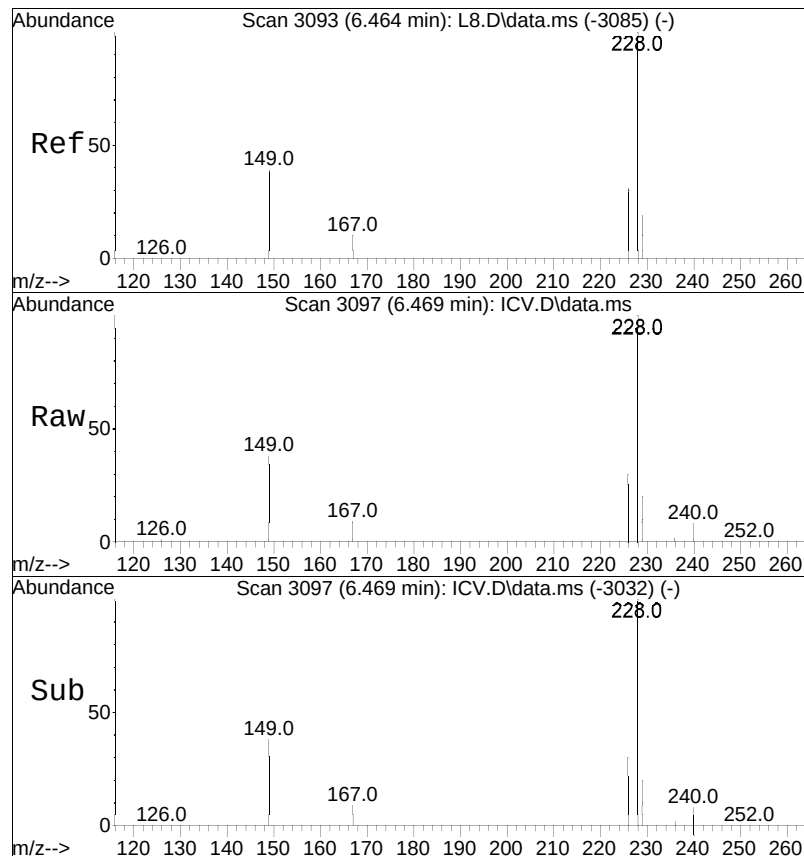




#35
 3,3'-Dichlorobenzidine
 Concen: 1007.24 ng/ml
 RT: 6.423 min Scan# 3062
 Delta R.T. 0.002 min
 Lab File: ICV.D
 Acq: 25 Jun 2025 10:58 pm

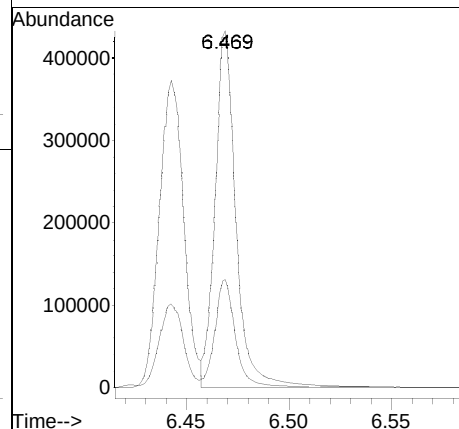
Tgt Ion	Ratio	Resp	Lower	Upper
252	100	127612		
126	9.7		7.7	11.5
254	64.6		51.8	77.6

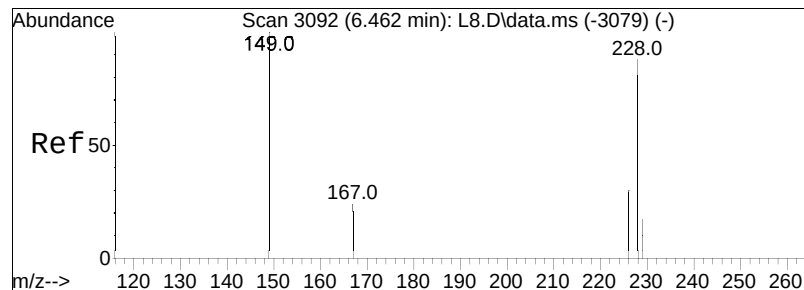




#36
 Chrysene
 Concen: 981.74 ng/ml
 RT: 6.469 min Scan# 3097
 Delta R.T. 0.005 min
 Lab File: ICV.D
 Acq: 25 Jun 2025 10:58 pm

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.6	37.0





#37

Bis(2-ethylhexyl)phthalate

Concen: 1020.14 ng/ml

RT: 6.465 min Scan# 3094

Delta R.T. 0.003 min

Lab File: ICV.D

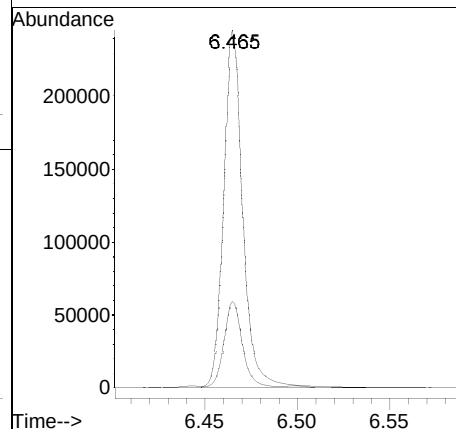
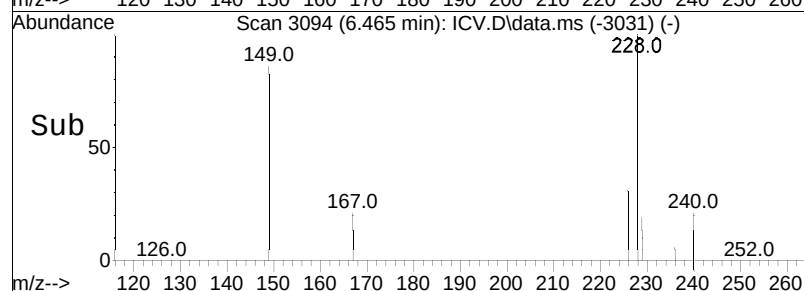
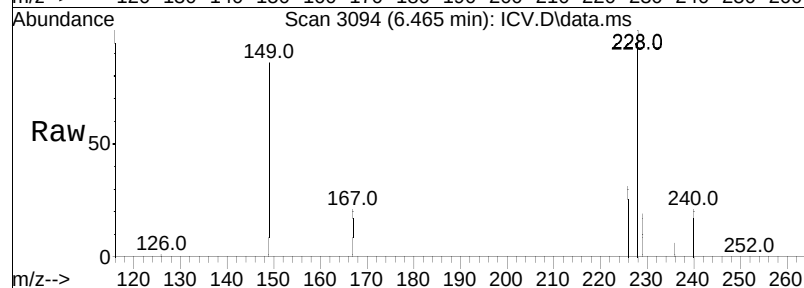
Acq: 25 Jun 2025 10:58 pm

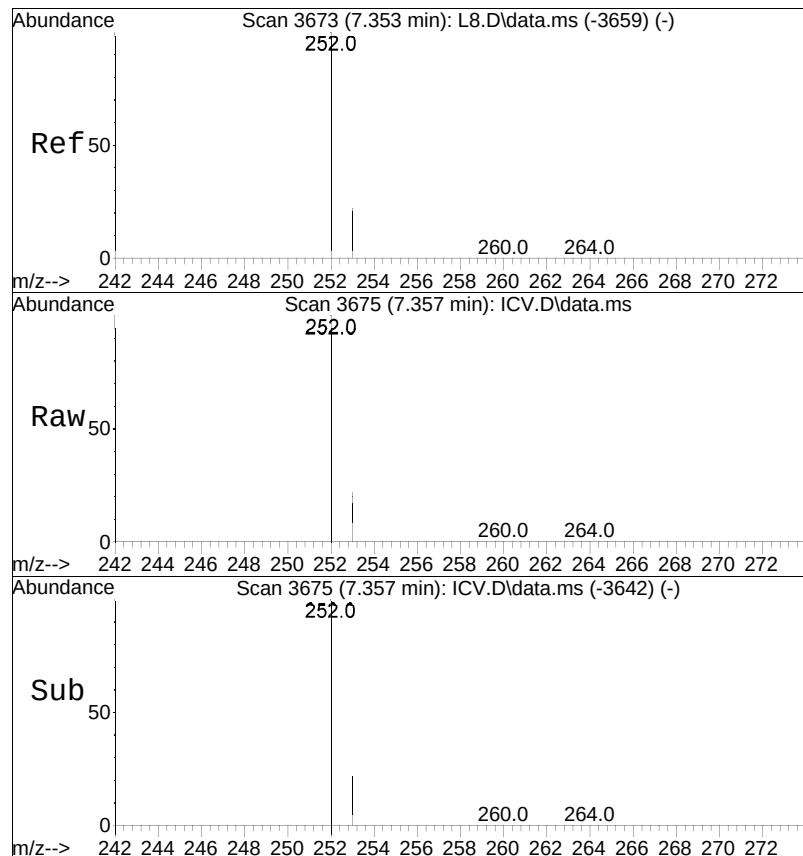
Tgt Ion:149 Resp: 173316

Ion Ratio Lower Upper

149 100

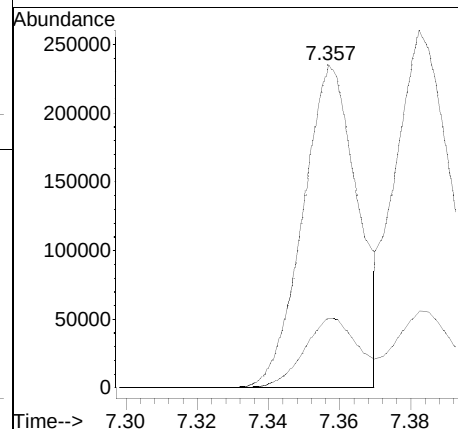
167 23.8 19.6 29.4

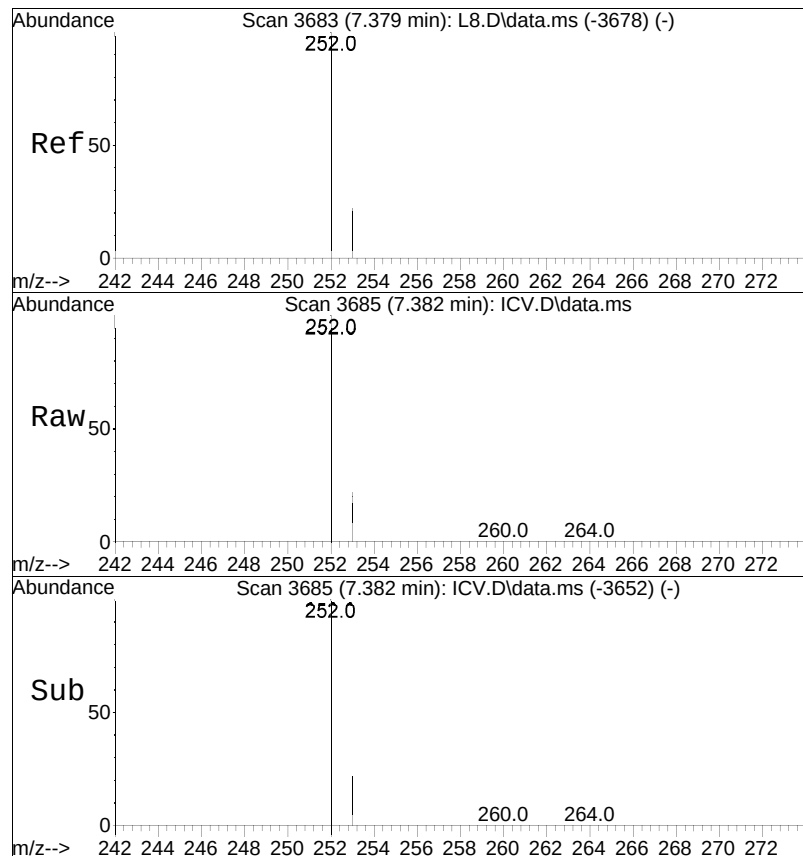




#39
 Benzo[b]fluoranthene
 Concen: 953.93 ng/ml
 RT: 7.357 min Scan# 3675
 Delta R.T. 0.004 min
 Lab File: ICV.D
 Acq: 25 Jun 2025 10:58 pm

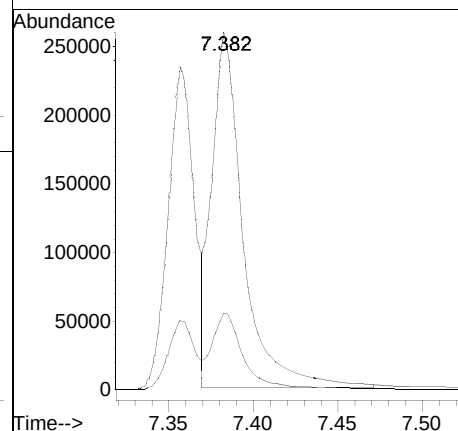
Tgt	Ion	Ratio	Lower	Upper
252	100			
253	21.6	18.1	27.1	

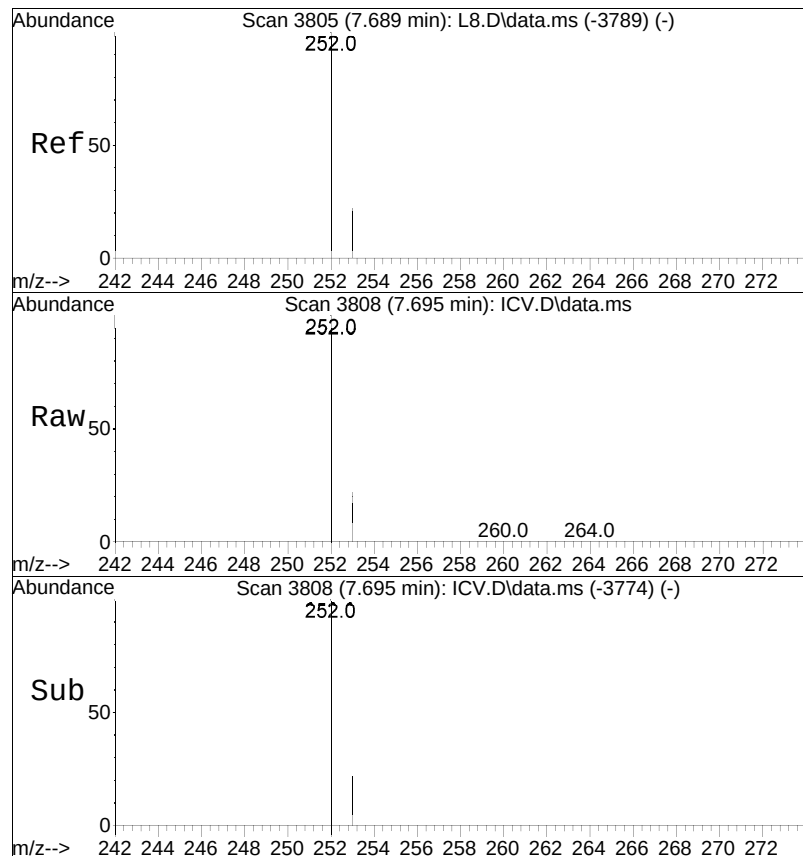




#40
 Benzo[k]fluoranthene
 Concen: 1086.30 ng/ml M1
 RT: 7.382 min Scan# 3685
 Delta R.T. 0.003 min
 Lab File: ICV.D
 Acq: 25 Jun 2025 10:58 pm

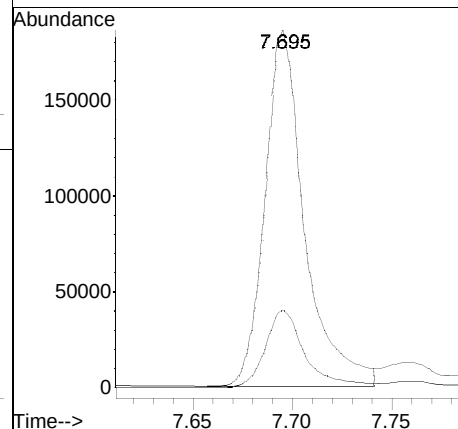
Tgt	Ion	Ratio	Lower	Upper
252	100			
253	21.1	17.0	25.4	

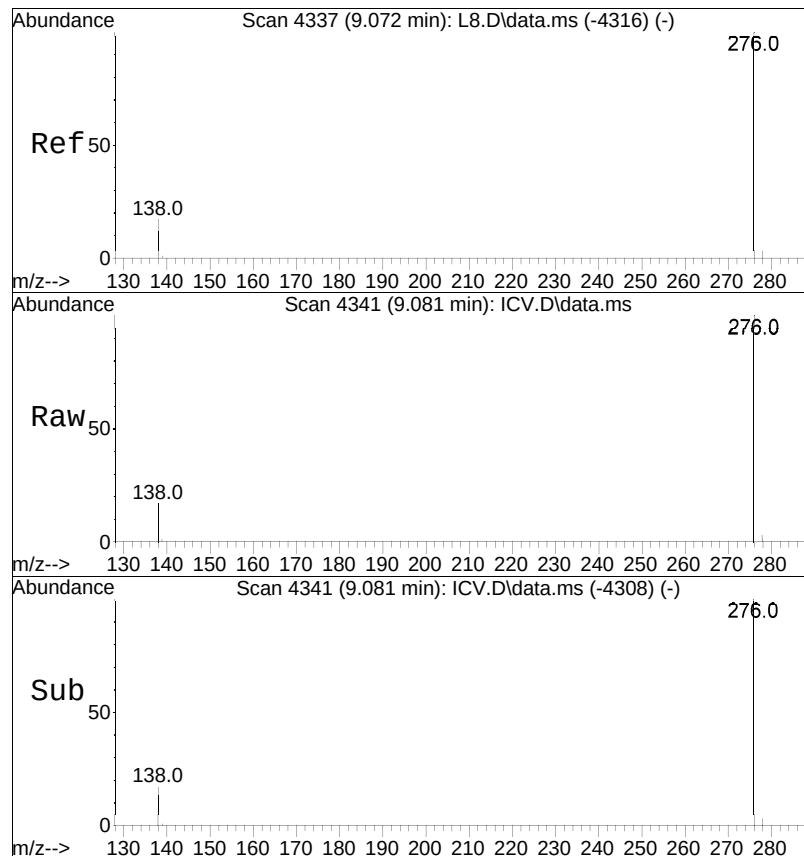




#41
 Benzo[a]pyrene
 Concen: 1021.07 ng/ml
 RT: 7.695 min Scan# 3808
 Delta R.T. 0.006 min
 Lab File: ICV.D
 Acq: 25 Jun 2025 10:58 pm

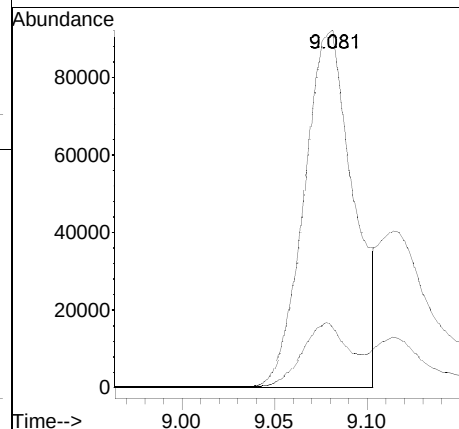
Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.4	26.0

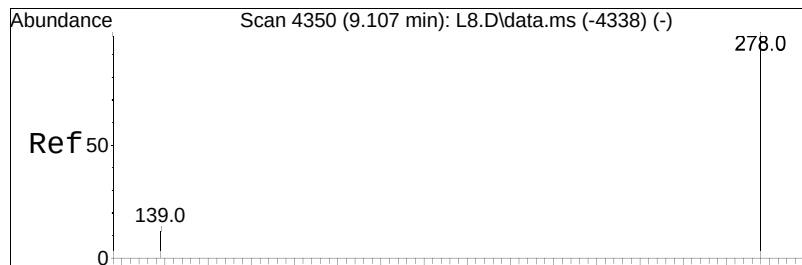




#42
 Indeno[1,2,3-cd]pyrene
 Concen: 763.11 ng/ml
 RT: 9.081 min Scan# 4341
 Delta R.T. 0.009 min
 Lab File: ICV.D
 Acq: 25 Jun 2025 10:58 pm

Tgt Ion	Ratio	Lower	Upper
276	100		
138	17.2	14.4	21.6





#43

Dibenzo[a,h]anthracene

Concen: 830.40 ng/ml M4

RT: 9.117 min Scan# 4354

Delta R.T. 0.010 min

Lab File: ICV.D

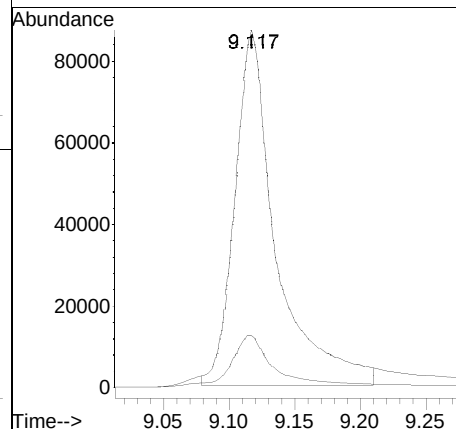
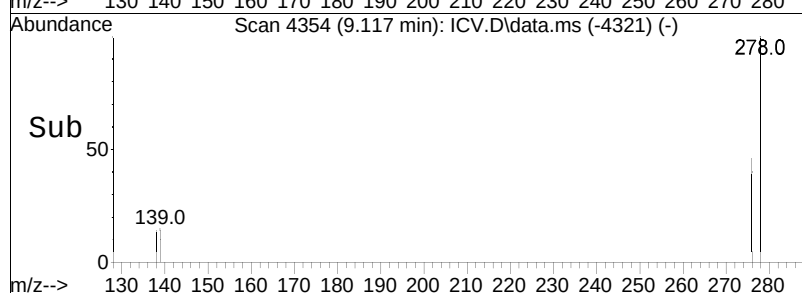
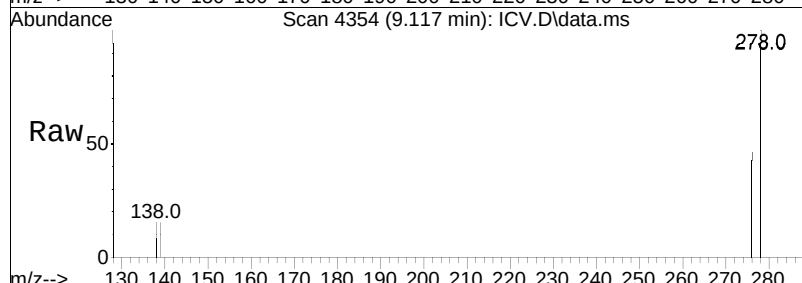
Acq: 25 Jun 2025 10:58 pm

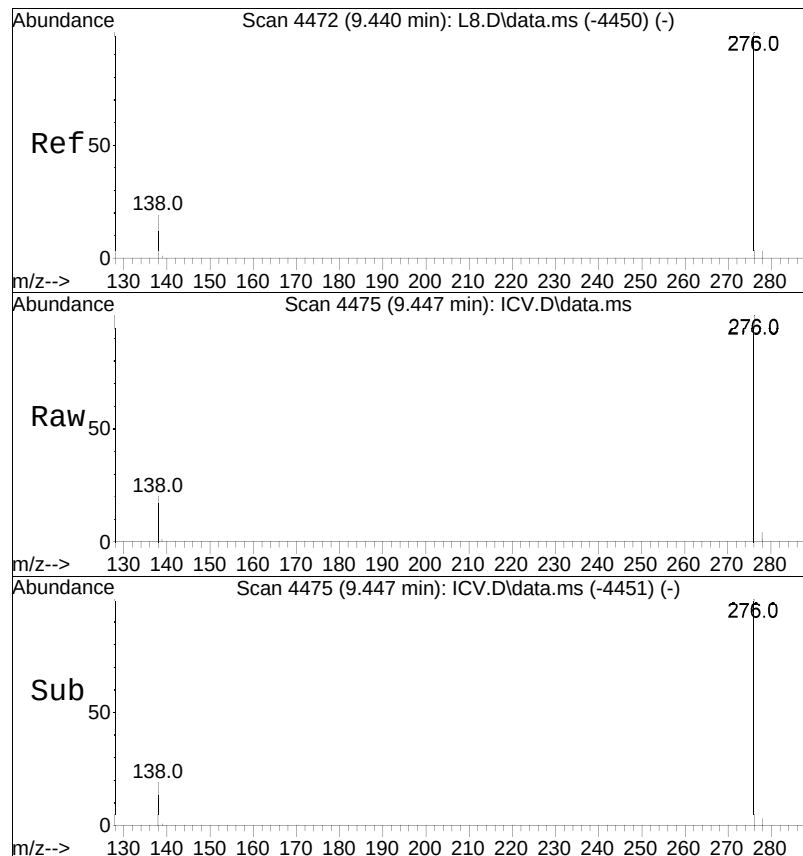
Tgt Ion: 278 Resp: 189715

Ion Ratio Lower Upper

278 100

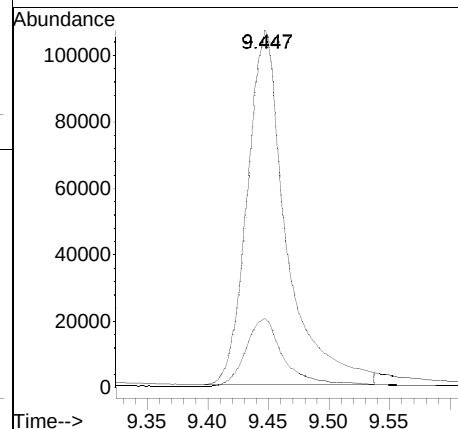
139 14.9 12.1 18.1





#44
 Benzo[g,h,i]perylene
 Concen: 1014.33 ng/ml
 RT: 9.447 min Scan# 4475
 Delta R.T. -0.014 min
 Lab File: ICV.D
 Acq: 25 Jun 2025 10:58 pm

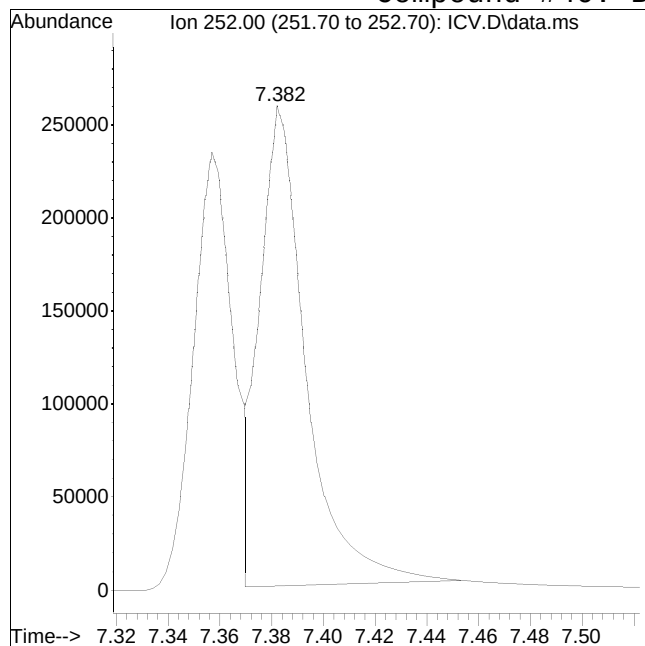
Tgt Ion	Ratio	Lower	Upper
276	100		
138	19.4	16.0	24.0



Manual Integration Report

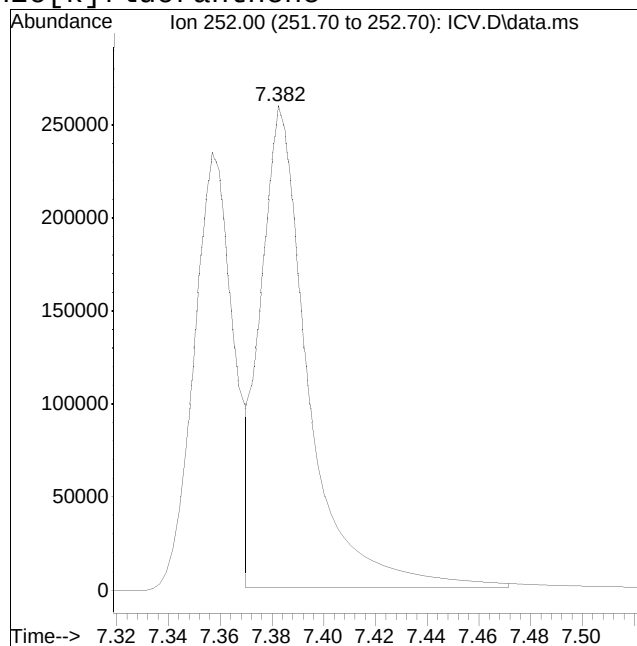
Data Path : I:\8270SIM\sv119\250625RVT\Method : SIM-RVT_250625_sv119.M
Data File : ICV.D Operator : sv119:ljg
Date Inj'd : 6/25/2025 10:58 pm Instrument : SV119
Sample : CQICV1,32,,1 Lot# 11696 Quant Date : 6/27/2025 8:31 am

Compound #40: Benzo[k]fluoranthene



Original Peak Response = 318678

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

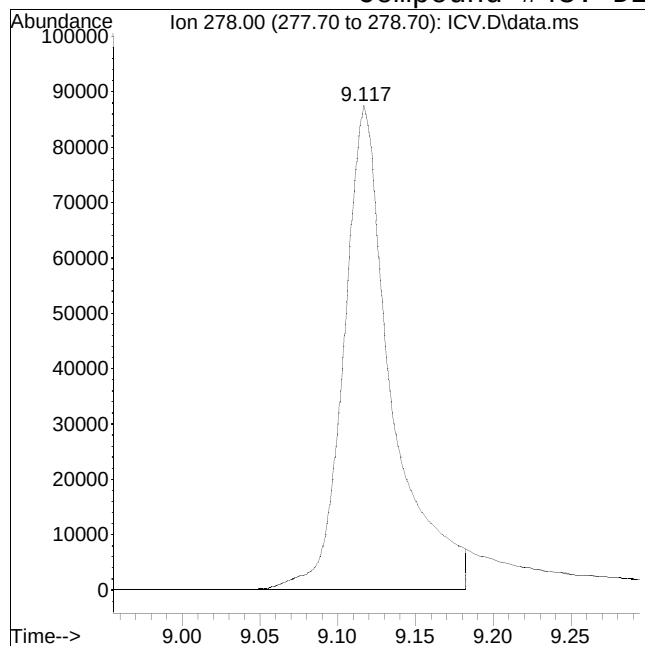


Manual Peak Response = 331327 M1

Manual Integration Report

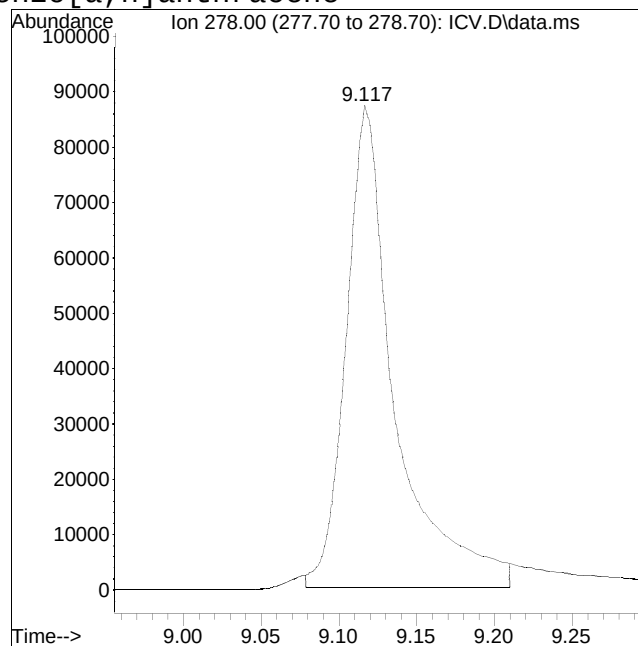
Data Path : I:\8270SIM\sv119\250625RVT01.M
Data File : ICV.D
Date Inj'd : 6/25/2025 10:58 pm
Sample : CQICV1,32,,1 Lot# 11696
Method : SIM-RVT_250625_sv119.M
Operator : sv119:ljb
Instrument : SV119
Quant Date : 6/27/2025 8:31 am

Compound #43: Dibenzo[a,h]anthracene



Original Peak Response = 186089

M4 = Poor automated baseline construction.



Manual Peak Response = 189715 M4

Method Path : I:\8270SIM\sv119\250625RVTical\
 Method File : SIM-RVT_250625_sv119.M
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Fri Jun 27 08:30:34 2025

COMPOUND			CalFit	Units	TrueMid	MidConc	%RE	TrueLow	LowConc	%RE
24	T	4,6-Dinitro-o-cresol	L	ng/ml	1000.0	911.497	-8.9	40.00	50.270	25.7
26	T	Pentachlorophenol	Q	ng/ml	1000.0	955.848	-4.4	10.00	12.398	24.0
31	T	Benzidine	L	ng/mL	1000.0	932.924	-6.7	100.00	130.059	30.1
34	T	Benzo[a]anthracene	L	ng/ml	1000.0	1004.624	0.5	1.00	1.103	10.3
42	T	Indeno[1,2,3-cd]pyrene	Q	ng/ml	1000.0	998.157	-0.2	5.00	6.822	36.4
43	T	Dibenzo[a,h]anthracene	Q	ng/ml	1000.0	1002.716	0.3	5.00	7.149	43.0

Calibration Correlation Report

	COMPOUND	CalFit	CoefOfDet	QuadTerm	LinTerm	Constant
24	T 4,6-Dinitro-o-cresol	Linear	0.997512	0.000000	0.103977	-0.000507397
26	T Pentachlorophenol	Quadratic	0.997260	0.041351	0.104474	4.90113e-005
31	T Benzidine	Linear	0.990129	0.000000	0.975119	-0.0311604
34	T Benzo[a]anthracene	Linear	0.999571	0.000000	1.35093	0.00268822
42	T Indeno[1,2,3-cd]pyrene	Quadratic	0.998651	0.178612	0.899958	-0.000734951
43	T Dibenzo[a,h]anthracene	Quadratic	0.998664	0.102143	0.941053	-0.000999099

Continuing Calibration

Calibration Verification Summary

Form 7

Semivolatiles

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : SV119
 Lab File ID : CCV0627N
 Sample No : WG2084498-3
 Channel :

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Calibration Date : 06/27/25 16:09
 Init. Calib. Date(s) : 06/25/25 06/25/25
 Init. Calib. Times : 20:07 22:41

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,4-Dichlorobenzene-d4	1	1	.05	0	20	165	0
N-Nitrosodimethylamine	0.682	0.588	.05	13.8	20	143	0
2-Fluorophenol	1.156	1.151	.05	0.4	20	172	0
Phenol-d6	1.436	1.439	.05	-0.2	20	166	0
Bis(2-chloroethyl)ether	1.247	1.097	.05	12	20	154	0
n-nitrosodi-n-propylamine	0.929	0.774	.05	16.7	20	138	0
Hexachloroethane	0.514	0.467	.05	9.1	20	151	0
Nitrobenzene-d5	1.315	1.117	.05	15.1	20	143	0
Naphthalene-d8	1	1	.05	0	20	160	0
Naphthalene	1.086	0.983	.05	9.5	20	153	0
Hexachlorobutadiene	0.204	0.171	.05	16.2	20	138	0
2-Methylnaphthalene	0.692	0.643	.05	7.1	20	158	0
1-Methylnaphthalene	0.7	0.648	.05	7.4	20	151	0
2-Fluorobiphenyl	0.896	0.835	.05	6.8	20	151	0
2-Chloronaphthalene	0.753	0.697	.05	7.4	20	148	0
2,6-Dinitrotoluene	0.162	0.147	.05	9.3	20	139	0
Acenaphthylene	1.266	1.162	.05	8.2	20	143	0
Acenaphthene-d10	1	1	.05	0	20	151	0
Acenaphthene	1.324	1.259	.05	4.9	20	147	0
2,4-Dinitrotoluene	0.363	0.343	.05	5.5	20	136	0
Fluorene	1.596	1.468	.05	8	20	141	0
2,4,6-Tribromophenol	0.23	0.161	.05	30*	20	103	0
Phenanthrene-d10	1	1	.05	0	20	145	0
4,6-Dinitro-o-cresol	1000	769.625	.05	23*	20	122	0
Hexachlorobenzene	0.282	0.218	.05	22.7*	20	118	0
Pentachlorophenol	1000	550.377	.05	45*	20	81	0
Phenanthrene	1.21	1.102	.05	8.9	20	139	0
Anthracene	1.222	1.136	.05	7	20	135	0
Fluoranthene	1.594	1.389	.05	12.9	20	126	0
Pyrene	1.677	1.434	.05	14.5	20	124	0
Benzidine	1000	573.747	.05	42.6*	20	80	0
4-Terphenyl-d14	1.106	0.937	.05	15.3	20	122	0
Chrysene-d12	1	1	.05	0	20	123	0
Benzo[a]anthracene	1000	963.186	.05	3.7	20	118	0
3,3'-Dichlorobenzidine	0.534	0.543	.05	-1.7	20	114	0
Chrysene	1.304	1.287	.05	1.3	20	120	0
Bis(2-ethylhexyl)phthalate	0.716	0.737	.05	-2.9	20	122	0
Perylene-d12	1	1	.05	0	20	118	0
Benzo[b]fluoranthene	1.105	1.152	.05	-4.3	20	112	0
Benzo[k]fluoranthene	1.278	1.335	.05	-4.5	20	118	0
Benzo[a]pyrene	1.05	1.124	.05	-7	20	114	0
Indeno[1,2,3-cd]pyrene	1000	938.419	.05	6.2	20	111	0
Dibenzo[a,h]anthracene	1000	1019.869	.05	-2	20	120	0

* Value outside of QC limits.



Calibration Verification Summary
Form 7
Semivolatiles

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Instrument ID : SV119
Lab File ID : CCV0627N
Sample No : WG2084498-3
Channel :

Lab Number : L2538382
Project Number : 2232.0006Y005
Calibration Date : 06/27/25 16:09
Init. Calib. Date(s) : 06/25/25 06/25/25
Init. Calib. Times : 20:07 22:41

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Benzo[g,h,i]perylene	0.975	1.09	.05	-11.8	20	117	0

* Value outside of QC limits.



Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv119\250627nRVT\
 Data File : ccv0627n.D
 Acq On : 27 Jun 2025 04:09 pm
 Operator : sv119:dv
 Sample : wg2084498-3,32,,ICV 11275 (0621d)
 Misc : wg2084498,,ical22426
 ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 27 16:24:47 2025
 Quant Method : I:\8270SIM\sv119\250627nRVT\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jun 27 16:24:54 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 i	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	165	0.00
2 T	N-Nitrosodimethylamine	0.682	0.588	13.8	143	0.00
3 s	2-Fluorophenol	1.156	1.151	0.4	172	0.00
4 s	Phenol-d6	1.436	1.439	-0.2	166	0.00
5 T	Bis(2-chloroethyl)ether	1.247	1.097	12.0	154	0.00
6 T	n-nitrosodi-n-propylamine	0.929	0.774	16.7	138	0.00
7 t	Hexachloroethane	0.514	0.467	9.1	151	0.00
8 s	Nitrobenzene-d5	1.315	1.117	15.1	143	0.00
9 i	Naphthalene-d8	1.000	1.000	0.0	160	0.00
10 t	Naphthalene	1.086	0.983	9.5	153	0.00
11 t	Hexachlorobutadiene	0.204	0.171	16.2	138	0.00
12 t	2-Methylnaphthalene	0.692	0.643	7.1	158	0.00
13 t	1-Methylnaphthalene	0.700	0.648	7.4	151	0.00
14 s	2-Fluorobiphenyl	0.896	0.835	6.8	151	0.00
15 t	2-Chloronaphthalene	0.753	0.697	7.4	148	0.00
16 t	2,6-Dinitrotoluene	0.162	0.147	9.3	139	0.00
17 t	Acenaphthylene	1.266	1.162	8.2	143	0.00
18 i	Acenaphthene-d10	1.000	1.000	0.0	151	0.00
19 t	Acenaphthene	1.324	1.259	4.9	147	0.00
20 t	2,4-Dinitrotoluene	0.363	0.343	5.5	136	0.00
21 t	Fluorene	1.596	1.468	8.0	141	0.00
22 s	2,4,6-Tribromophenol	0.230	0.161	30.0#	103	0.00
23 i	Phenanthrene-d10	1.000	1.000	0.0	145	0.00
24 T	4,6-Dinitro-o-cresol	*1000.000	769.625	23.0#	122	0.00
25 t	Hexachlorobenzene	0.282	0.218	22.7#	118	0.00
26 t	Pentachlorophenol	*1000.000	550.377	45.0#	81	0.00
27 t	Phenanthrene	1.210	1.102	8.9	139	0.00
28 t	Anthracene	1.222	1.136	7.0	135	0.00
29 t	Fluoranthene	1.594	1.389	12.9	126	0.00
30 t	Pyrene	1.677	1.434	14.5	124	0.00
31 T	Benzidine	*1000.000	573.747	42.6#	80	0.00
32 s	4-Terphenyl-d14	1.106	0.937	15.3	122	0.00
33 i	Chrysene-d12	1.000	1.000	0.0	123	0.00
34 t	Benzo[a]anthracene	*1000.000	963.186	3.7	118	0.00
35 t	3,3'-Dichlorobenzidine	0.534	0.543	-1.7	114	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270SIM\sv119\250627nRVT\
 Data File : ccv0627n.D
 Acq On : 27 Jun 2025 04:09 pm
 Operator : sv119:dv
 Sample : wg2084498-3,32,,ICV 11275 (0621d)
 Misc : wg2084498,,ical22426
 ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 27 16:24:47 2025
 Quant Method : I:\8270SIM\sv119\250627nRVT\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jun 27 16:24:54 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
36 t	Chrysene	1.304	1.287	1.3	120	0.00
37 T	Bis(2-ethylhexyl)phthalate	0.716	0.737	-2.9	122	0.00
38 i	Perylene-d12	1.000	1.000	0.0	118	0.00
39 t	Benzo[b]fluoranthene	1.105	1.152	-4.3	112	0.00
40 t	Benzo[k]fluoranthene	1.278	1.335	-4.5	118	0.00
41 t	Benzo[a]pyrene	1.050	1.124	-7.0	114	0.00
42 t	Indeno[1,2,3-cd]pyrene	*1000.000	938.419	6.2	111	0.00
43 t	Dibenzo[a,h]anthracene	*1000.000	1019.869	-2.0	120	0.00
44 t	Benzo[g,h,i]perylene	0.975	1.090	-11.8	117	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250627nRVT\
 Data File : ccv0627n.D
 Acq On : 27 Jun 2025 04:09 pm
 Operator : sv119:dv
 Sample : wg2084498-3,32,,ICV 11275 (0621d)
 Misc : wg2084498,,ical22426
 ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 27 16:24:47 2025
 Quant Method : I:\8270SIM\sv119\250627nRVT\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jun 27 16:24:54 2025
 Response via : Initial Calibration

Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.285	152	237452	4000.000	ng/ml	0.00
9) Naphthalene-d8	2.948	136	908349	4000.000	ng/ml	0.00
18) Acenaphthene-d10	3.925	164	521676	4000.000	ng/ml	0.00
23) Phenanthrene-d10	4.765	188	1047157	4000.000	ng/ml	0.00
33) Chrysene-d12	6.413	240	1073641	4000.000	ng/ml	0.00
38) Perylene-d12	7.667	264	1075366	4000.000	ng/ml	0.00
System Monitoring Compounds						
3) 2-Fluorophenol	1.693	112	68321	995.696	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery =	49.78%		
4) Phenol-d6	2.092	99	85418	1002.209	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery =	50.11%		
8) Nitrobenzene-d5	2.562	82	66311	849.643	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery =	84.96%		
14) 2-Fluorobiphenyl	3.545	172	189556	931.267	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery =	93.13%		
22) 2,4,6-Tribromophenol	4.367	330	21012	701.522	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery =	35.08%		
32) 4-Terphenyl-d14	5.727	244	245343	847.484	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery =	84.75%		
Target Compounds						
					Qvalue	
2) N-Nitrosodimethylamine	1.244	74	34905	861.885	ng/mL#	1
5) Bis(2-chloroethyl)ether	2.145	93	65146	879.757	ng/ml	93
6) n-nitrosodi-n-propylamine	2.482	70	45949	832.876	ng/ml	96
7) Hexachloroethane	2.543	117	27749	910.182	ng/ml	97
10) Naphthalene	2.959	128	223320	905.266	ng/ml	100
11) Hexachlorobutadiene	3.031	225	38772	837.857	ng/ml	100
12) 2-Methylnaphthalene	3.338	142	145933	928.732	ng/ml	100
13) 1-Methylnaphthalene	3.391	142	147222	926.411	ng/ml	99
15) 2-Chloronaphthalene	3.607	162	158234	924.819	ng/ml	99
16) 2,6-Dinitrotoluene	3.800	165	33452	906.695	ng/ml	95
17) Acenaphthylene	3.843	152	263835	917.967	ng/ml	100
19) Acenaphthene	3.941	153	164206	950.643	ng/ml	95
20) 2,4-Dinitrotoluene	4.028	165	44682	943.521	ng/ml	92
21) Fluorene	4.231	166	191400	919.484	ng/ml	100
24) 4,6-Dinitro-o-cresol	4.259	198	20418	769.625	ng/ml	99
25) Hexachlorobenzene	4.550	284	56958	771.551	ng/ml	96
26) Pentachlorophenol	4.662	266	15924	550.377	ng/ml	100
27) Phenanthrene	4.780	178	288616	911.212	ng/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250627nRVT\
 Data File : ccv0627n.D
 Acq On : 27 Jun 2025 04:09 pm
 Operator : sv119:dv
 Sample : wg2084498-3,32,,ICV 11275 (0621d)
 Misc : wg2084498,,ical22426
 ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 27 16:24:47 2025
 Quant Method : I:\8270SIM\sv119\250627nRVT\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jun 27 16:24:54 2025
 Response via : Initial Calibration

Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
28)	Anthracene	4.806	178	297344	929.622	ng/ml	99
29)	Fluoranthene	5.489	202	363541	871.388	ng/ml	99
30)	Pyrene	5.628	202	375446	855.157	ng/ml	100
31)	Benzidine	5.567	184	113834	573.747	ng/mL	100
34)	Benzo[a]anthracene	6.405	228	352140	963.186	ng/ml	100
35)	3,3'-Dichlorobenzidine	6.389	252	145732	1016.949	ng/ml	99
36)	Chrysene	6.430	228	345312	986.704	ng/ml	100
37)	Bis(2-ethylhexyl)phtha...	6.437	149	197805	1029.345	ng/ml	98
39)	Benzo[b]fluoranthene	7.279	252	309696	1042.313	ng/ml	98
40)	Benzo[k]fluoranthene	7.308	252	358848	1044.261	ng/ml	99
41)	Benzo[a]pyrene	7.599	252	302181	1070.460	ng/ml	100
42)	Indeno[1,2,3-cd]pyrene	8.910	276	236828	938.419	ng/ml	98
43)	Dibenzo[a,h]anthracene	8.944	278	264087M4	1019.869	ng/ml	
44)	Benzo[g,h,i]perylene	9.254	276	292942	1117.267	ng/ml	96

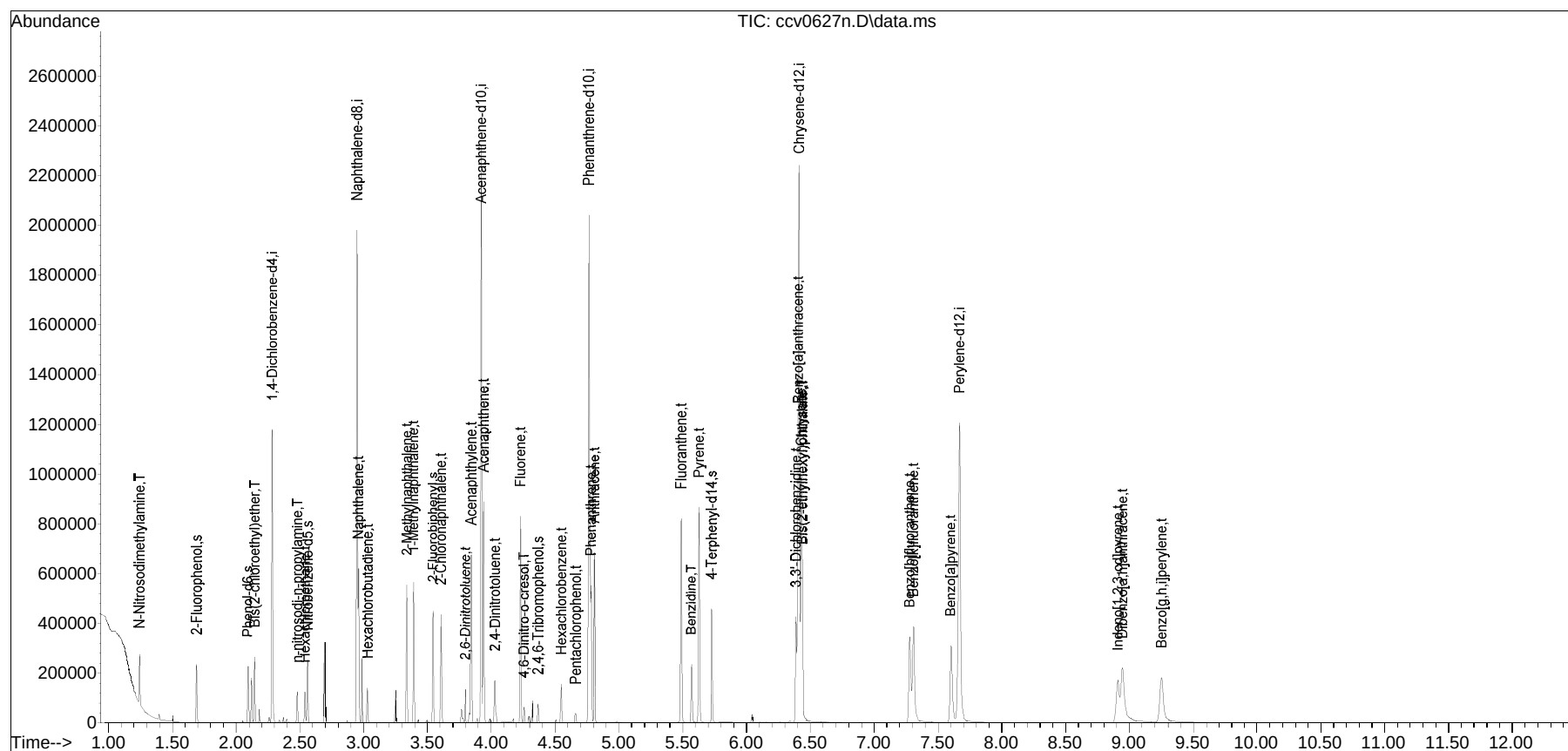
(#) = qualifier out of range (m) = manual integration (+) = signals summed

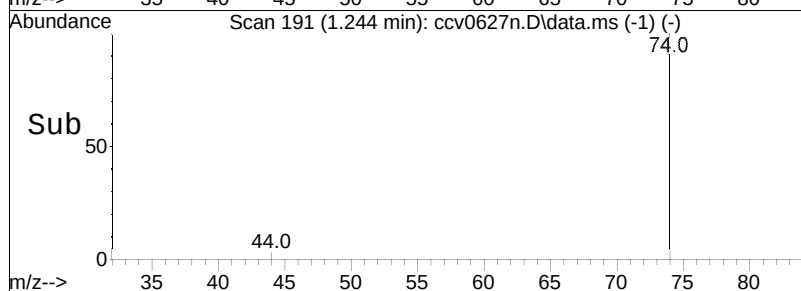
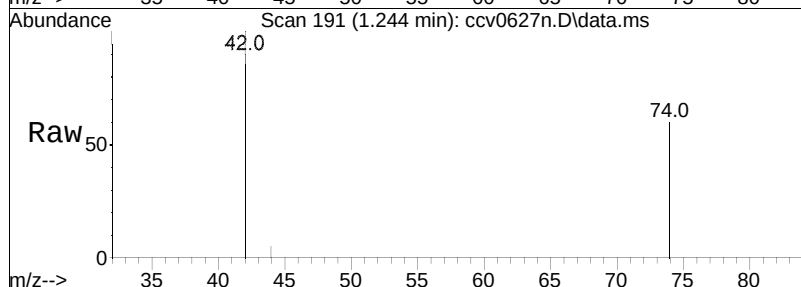
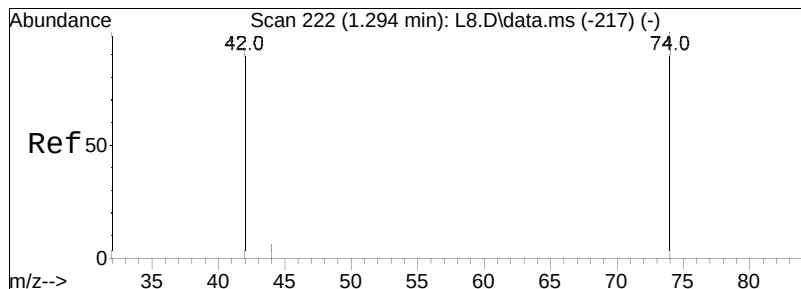
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250627nRVT\
 Data File : ccv0627n.D
 Acq On : 27 Jun 2025 04:09 pm
 Operator : sv119:dv
 Sample : wg2084498-3,32,,ICV 11275 (0621d)
 Misc : wg2084498,,ical22426
 ALS Vial : 49 Sample Multiplier: 1

Quant Time: Jun 27 16:24:47 2025
 Quant Method : I:\8270SIM\sv119\250627nRVT\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jun 27 16:24:54 2025
 Response via : Initial Calibration

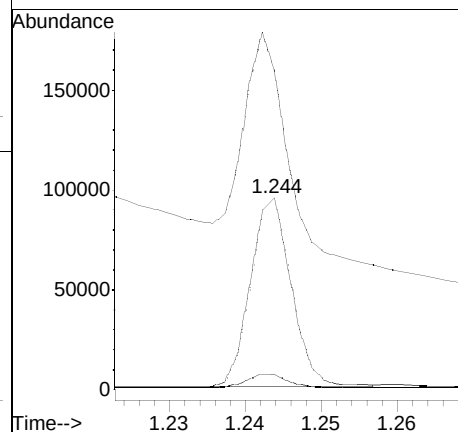
Sub List : Default - All compounds listed

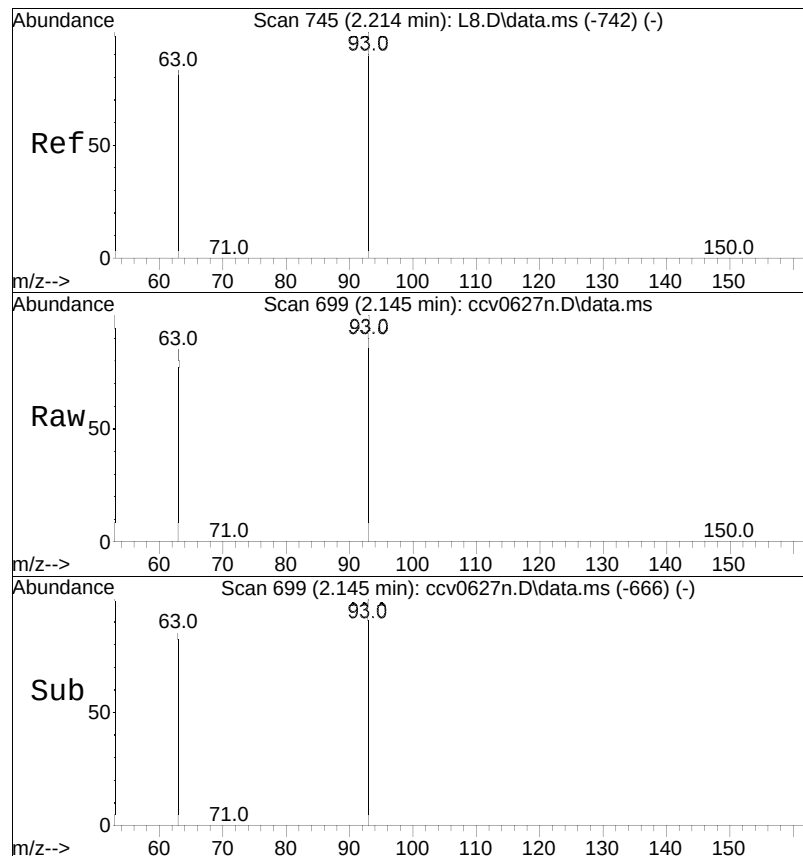




#2
 N-Nitrosodimethylamine
 Concen: 861.89 ng/mL
 RT: 1.244 min Scan# 191
 Delta R.T. 0.000 min
 Lab File: ccv0627n.D
 Acq: 27 Jun 2025 04:09 pm

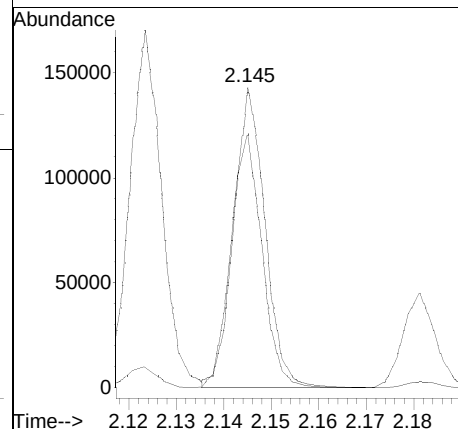
Tgt Ion: 74 Resp: 34905
 Ion Ratio Lower Upper
 74 100
 42 725.0 293.4 440.0#
 44 6.8 4.3 6.5#

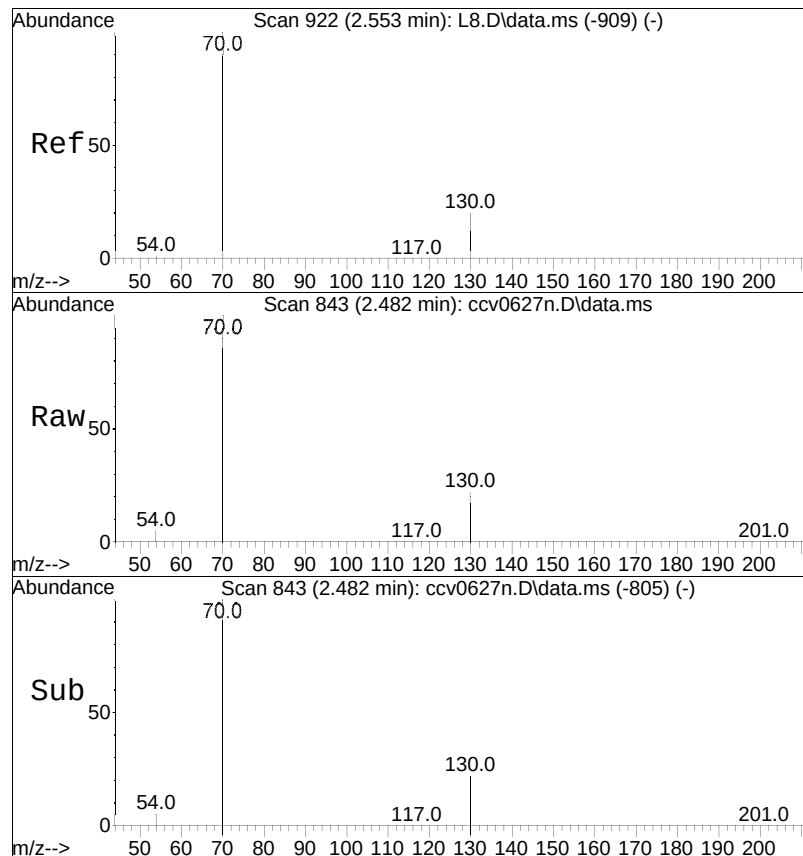




#5
 Bis(2-chloroethyl)ether
 Concen: 879.76 ng/ml
 RT: 2.145 min Scan# 699
 Delta R.T. 0.000 min
 Lab File: ccv0627n.D
 Acq: 27 Jun 2025 04:09 pm

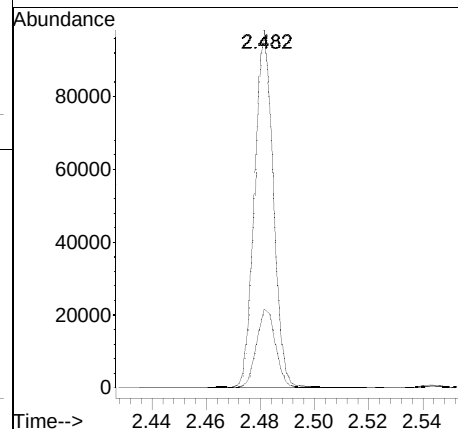
Tgt Ion	Ratio	Lower	Upper
93	100		
63	84.7	62.9	94.3

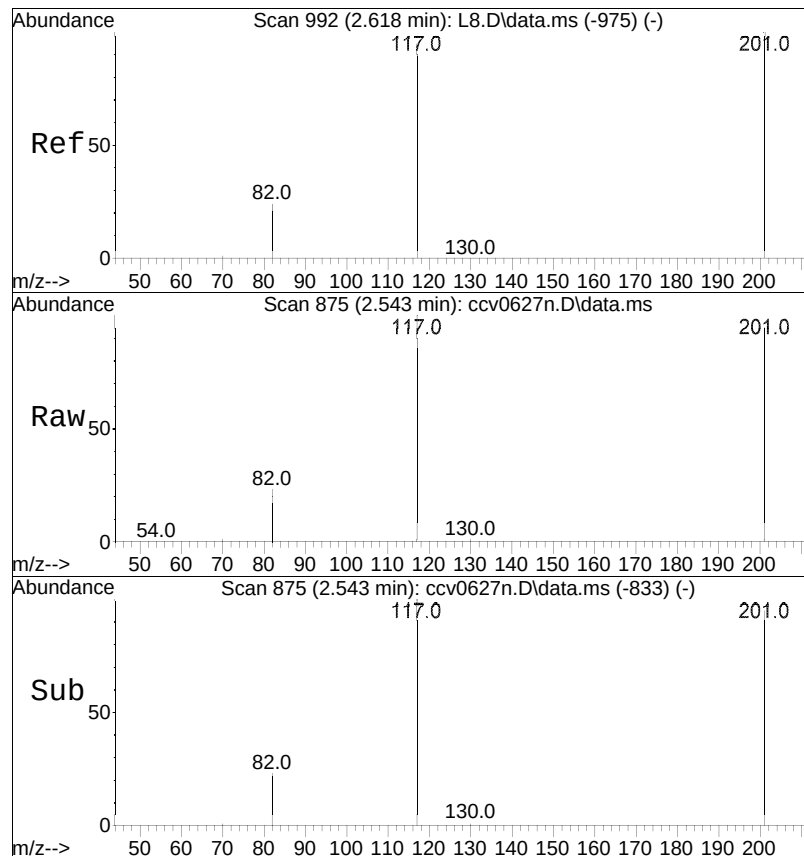




#6
 n-nitrosodi-n-propylamine
 Concen: 832.88 ng/ml
 RT: 2.482 min Scan# 843
 Delta R.T. 0.000 min
 Lab File: ccv0627n.D
 Acq: 27 Jun 2025 04:09 pm

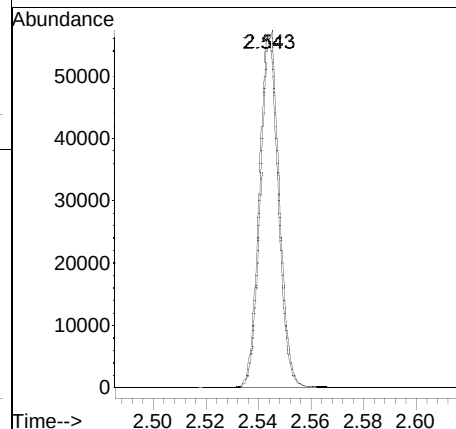
Tgt Ion	Ratio	Lower	Upper
70	100		
130	22.3	16.4	24.6

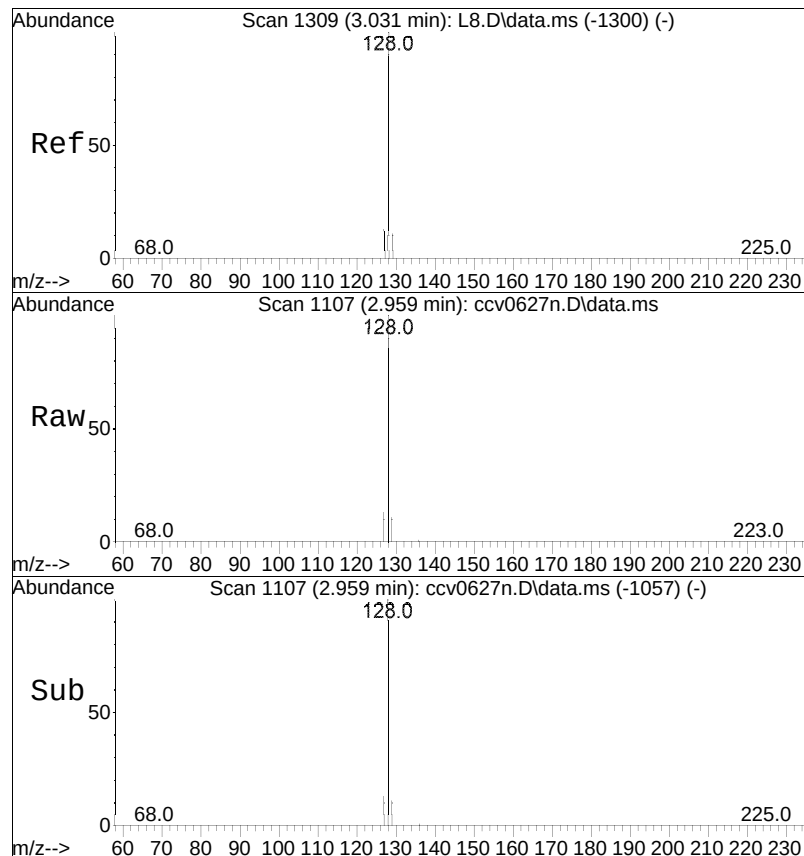




#7
 Hexachloroethane
 Concen: 910.18 ng/ml
 RT: 2.543 min Scan# 875
 Delta R.T. 0.000 min
 Lab File: ccv0627n.D
 Acq: 27 Jun 2025 04:09 pm

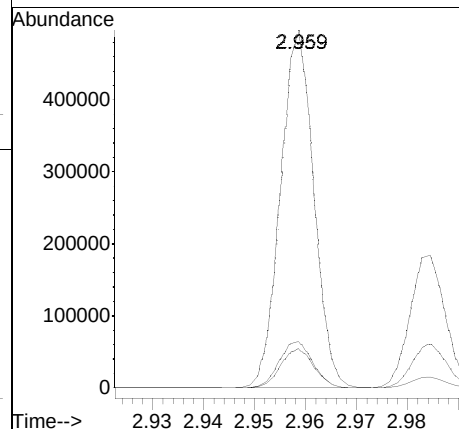
Tgt Ion	Ratio	Lower	Upper
117	100		
201	100.3	82.9	124.3

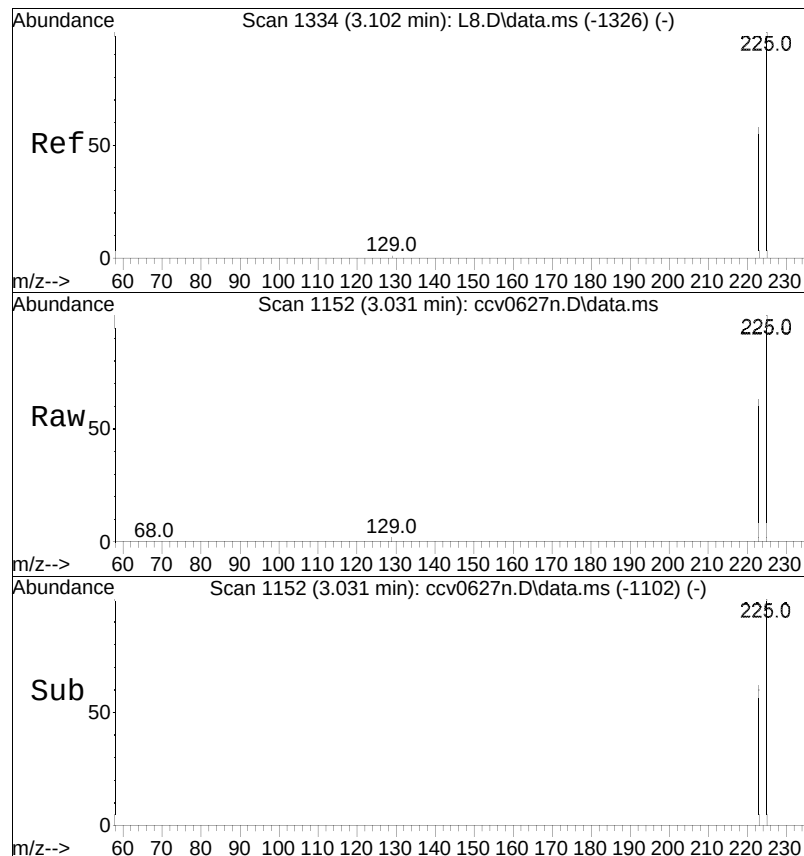




#10
Naphthalene
Concen: 905.27 ng/ml
RT: 2.959 min Scan# 1107
Delta R.T. 0.000 min
Lab File: ccv0627n.D
Acq: 27 Jun 2025 04:09 pm

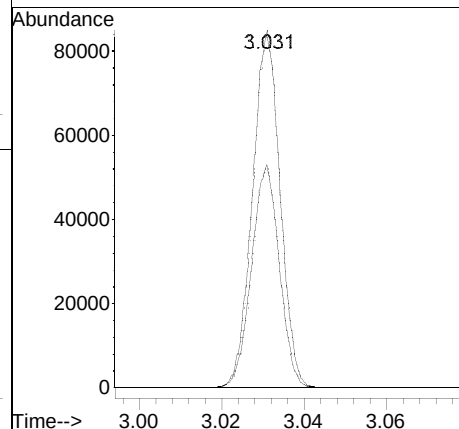
Tgt	Ion	Ratio	Resp	Lower	Upper
128	128	100	223320		
129	129	11.0		8.8	13.2
127	127	13.2		10.6	15.8

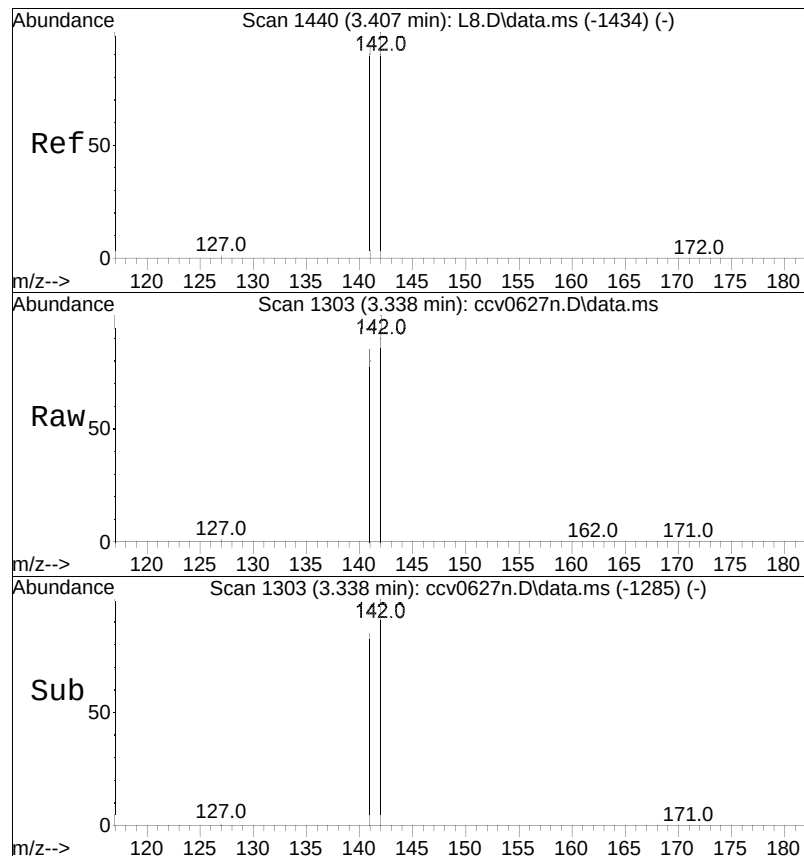




#11
 Hexachlorobutadiene
 Concen: 837.86 ng/ml
 RT: 3.031 min Scan# 1152
 Delta R.T. 0.000 min
 Lab File: ccv0627n.D
 Acq: 27 Jun 2025 04:09 pm

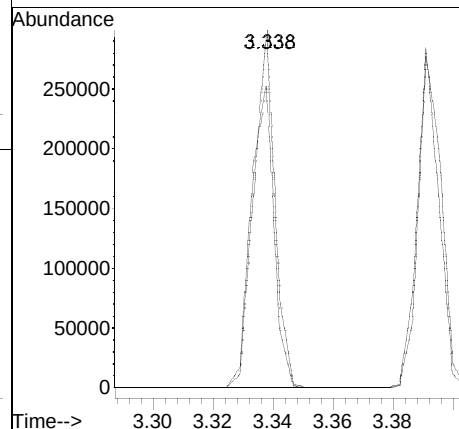
Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.9	50.2	75.4

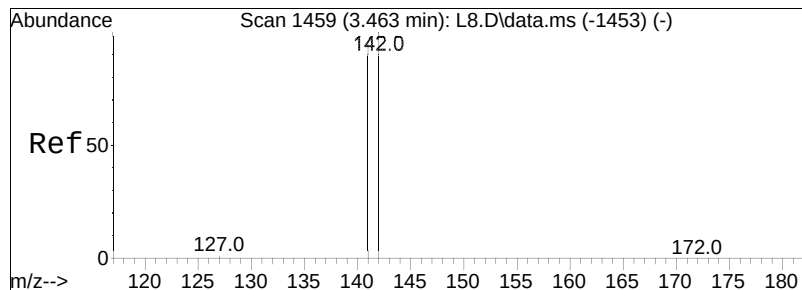




#12
 2-Methylnaphthalene
 Concen: 928.73 ng/ml
 RT: 3.338 min Scan# 1303
 Delta R.T. 0.000 min
 Lab File: ccv0627n.D
 Acq: 27 Jun 2025 04:09 pm

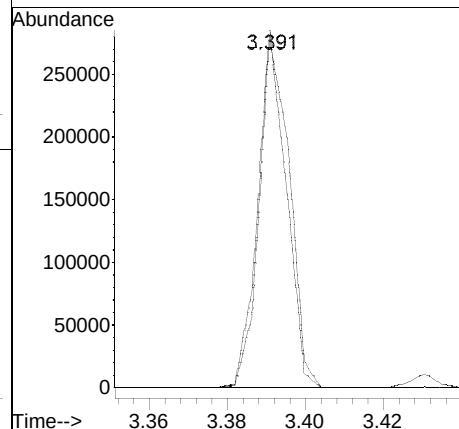
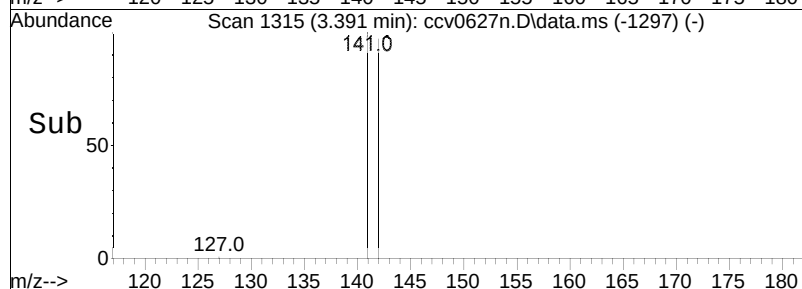
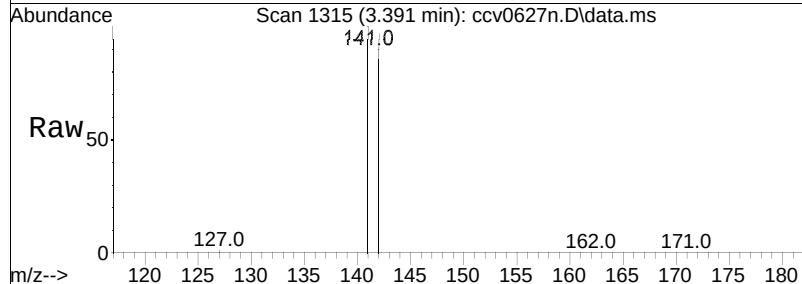
Tgt Ion	Ratio	Lower	Upper
142	100		
141	91.9	73.6	110.4

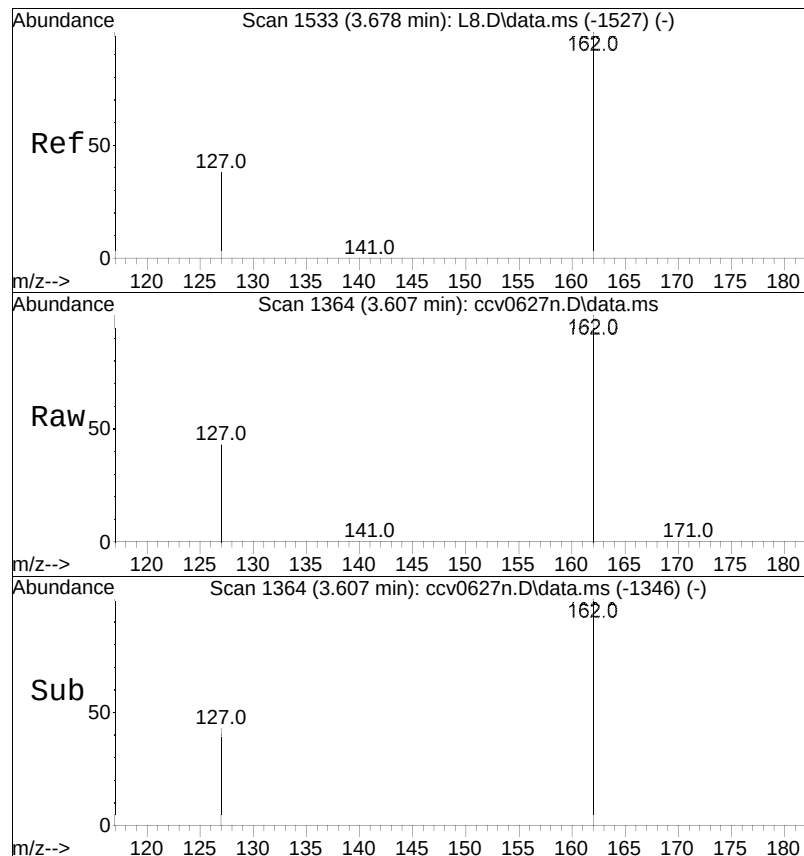




#13
 1-Methylnaphthalene
 Concen: 926.41 ng/ml
 RT: 3.391 min Scan# 1315
 Delta R.T. 0.000 min
 Lab File: ccv0627n.D
 Acq: 27 Jun 2025 04:09 pm

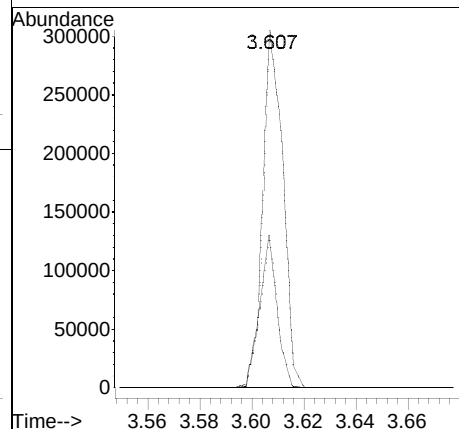
Tgt Ion	Ratio	Lower	Upper
142	100		
141	95.7	76.0	114.0

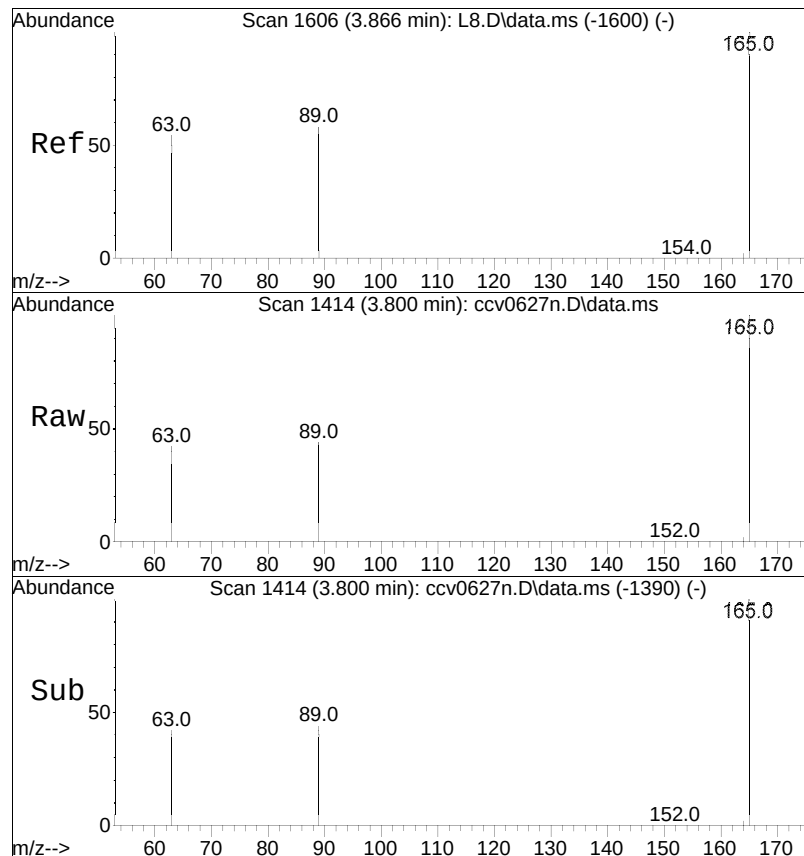




#15
 2-Chloronaphthalene
 Concen: 924.82 ng/ml
 RT: 3.607 min Scan# 1364
 Delta R.T. 0.000 min
 Lab File: ccv0627n.D
 Acq: 27 Jun 2025 04:09 pm

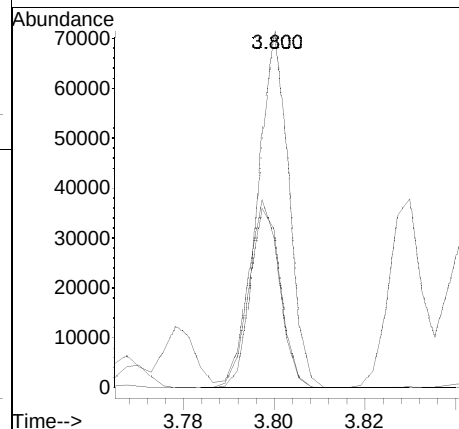
Tgt Ion	Ratio	Lower	Upper
162	100		
127	37.8	29.8	44.8

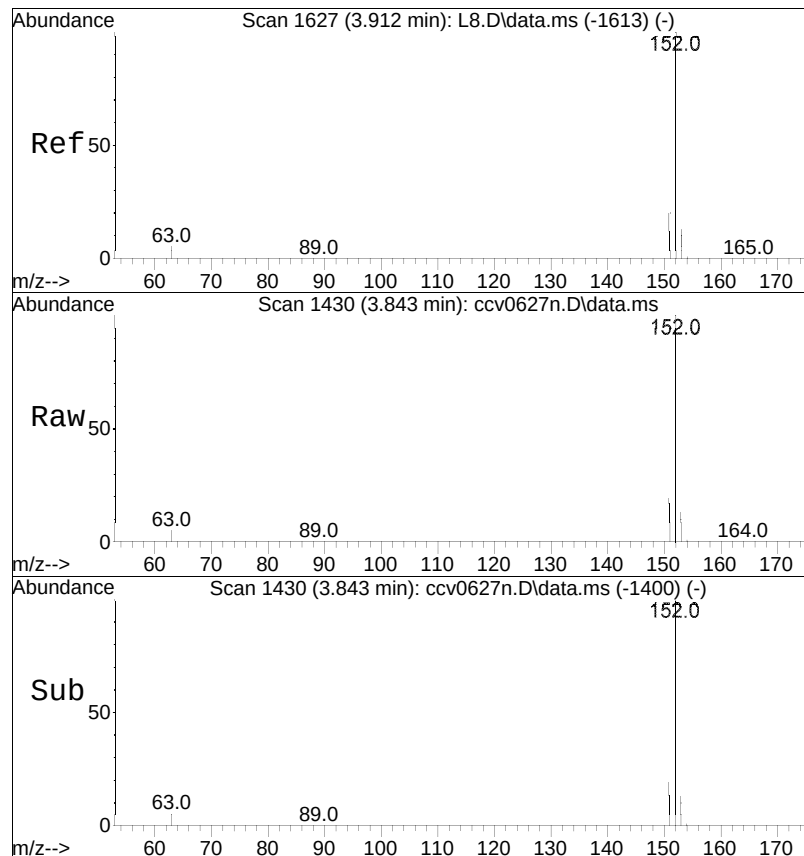




#16
 2,6-Dinitrotoluene
 Concen: 906.69 ng/ml
 RT: 3.800 min Scan# 1414
 Delta R.T. 0.000 min
 Lab File: ccv0627n.D
 Acq: 27 Jun 2025 04:09 pm

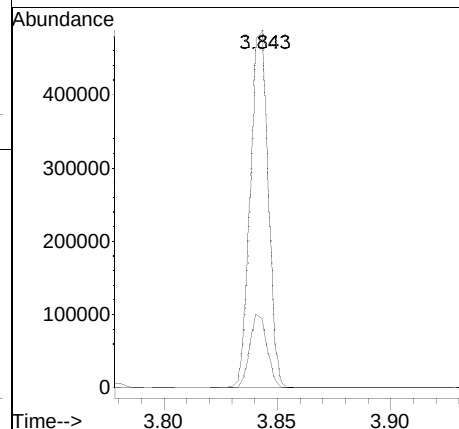
Tgt Ion	Ratio	Resp	Lower	Upper
165	100	33452		
89	52.7		45.6	68.4
63	54.3		45.4	68.2

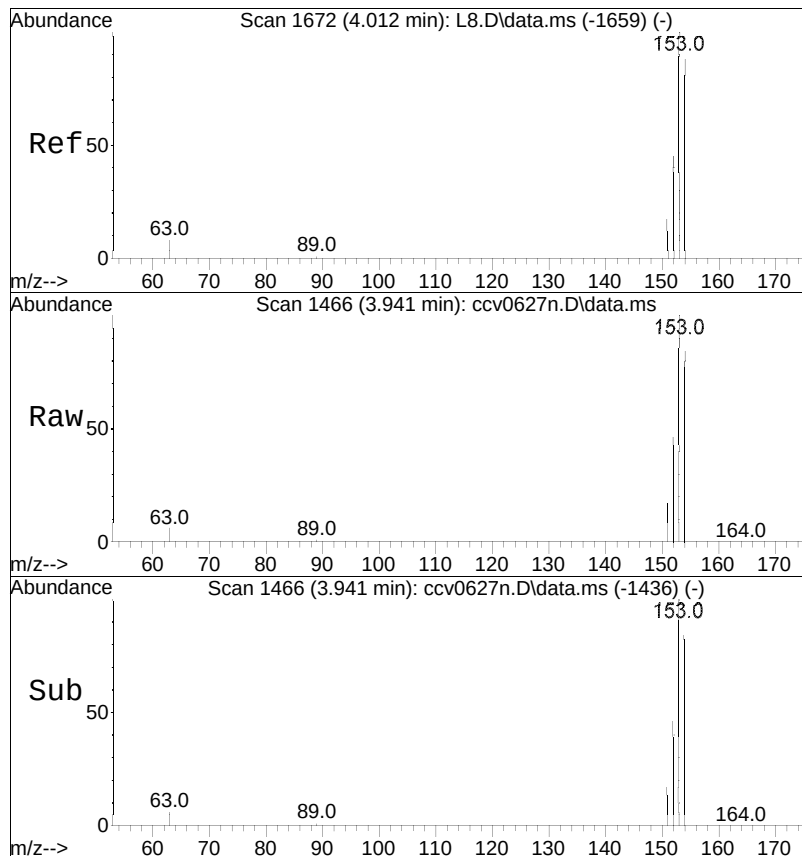




#17
 Acenaphthylene
 Concen: 917.97 ng/ml
 RT: 3.843 min Scan# 1430
 Delta R.T. 0.000 min
 Lab File: ccv0627n.D
 Acq: 27 Jun 2025 04:09 pm

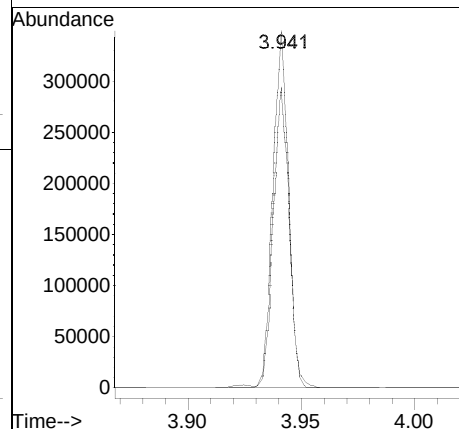
Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.2

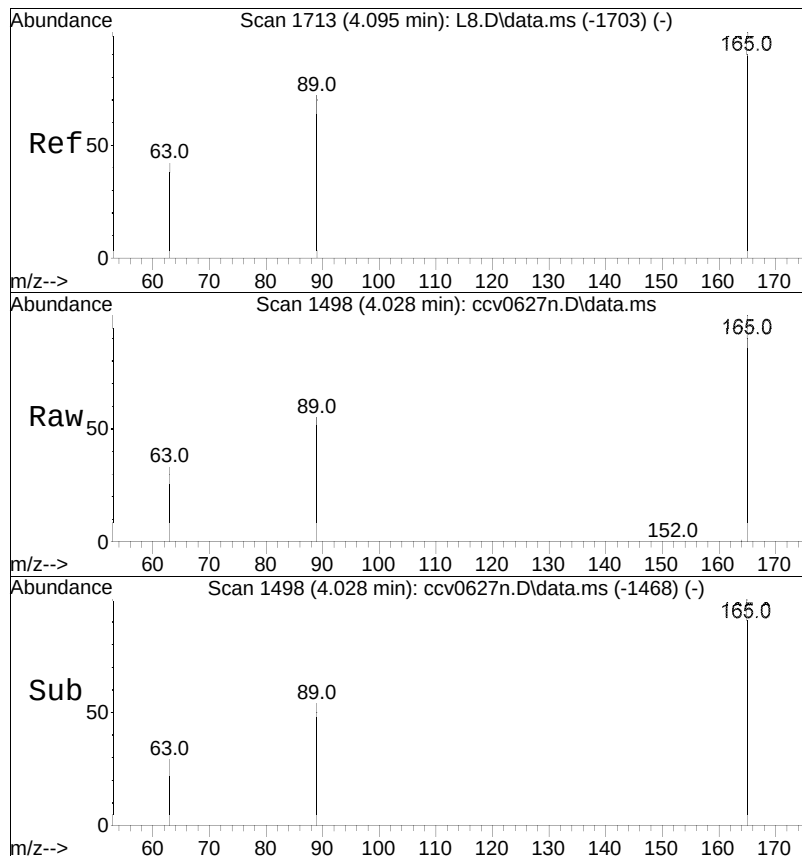




#19
 Acenaphthene
 Concen: 950.64 ng/ml
 RT: 3.941 min Scan# 1466
 Delta R.T. 0.000 min
 Lab File: ccv0627n.D
 Acq: 27 Jun 2025 04:09 pm

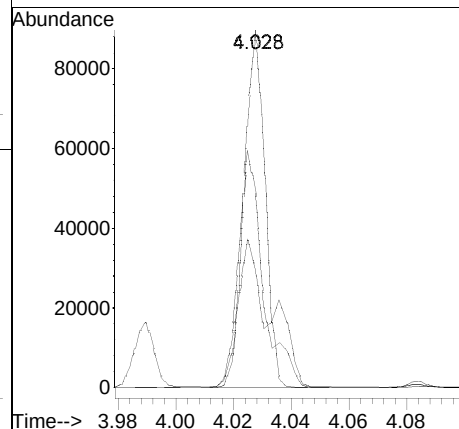
Tgt Ion	Ratio	Lower	Upper
153	100		
154	85.6	72.0	108.0

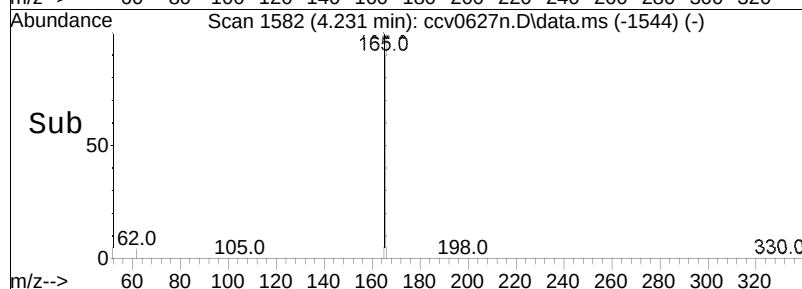
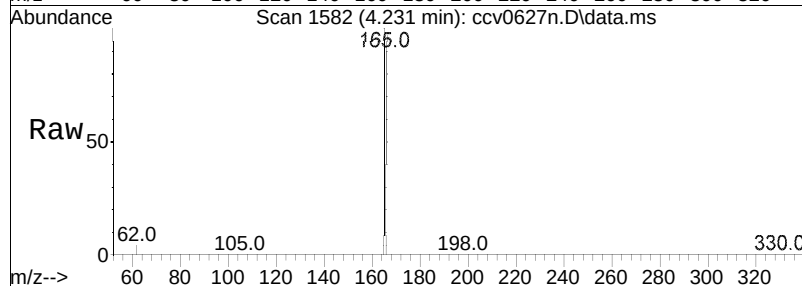
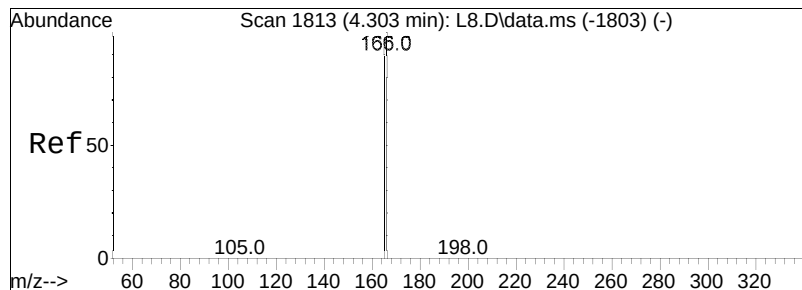




#20
 2,4-Dinitrotoluene
 Concen: 943.52 ng/ml
 RT: 4.028 min Scan# 1498
 Delta R.T. 0.000 min
 Lab File: ccv0627n.D
 Acq: 27 Jun 2025 04:09 pm

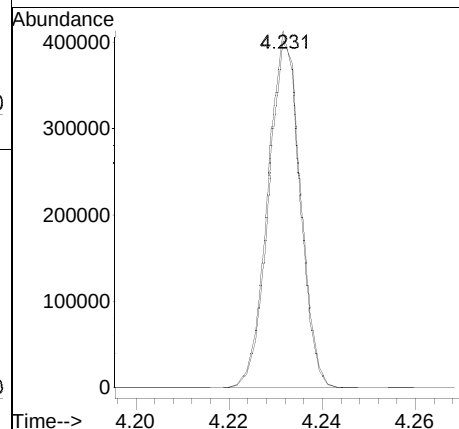
Tgt Ion:	165	Resp:	44682
Ion Ratio	Lower	Upper	
165	100		
89	78.5	56.6	85.0
63	48.1	35.0	52.6

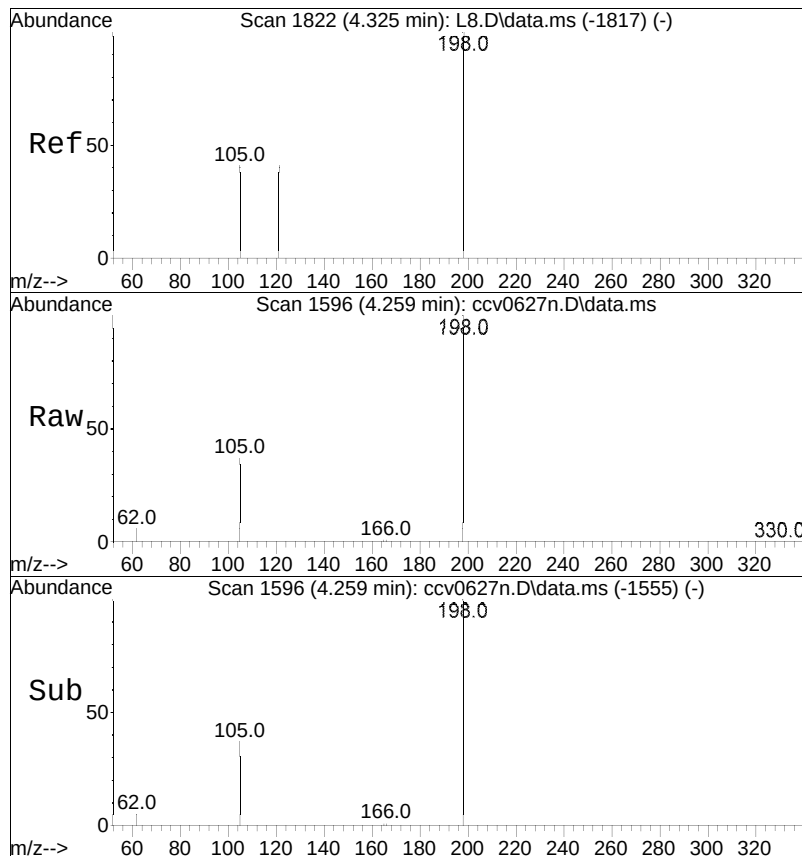




#21
 Fluorene
 Concen: 919.48 ng/ml
 RT: 4.231 min Scan# 1582
 Delta R.T. 0.000 min
 Lab File: ccv0627n.D
 Acq: 27 Jun 2025 04:09 pm

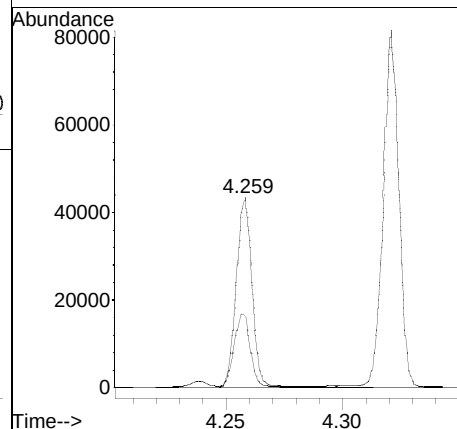
Tgt Ion	Ratio	Lower	Upper
166	100		
165	101.8	81.5	122.3

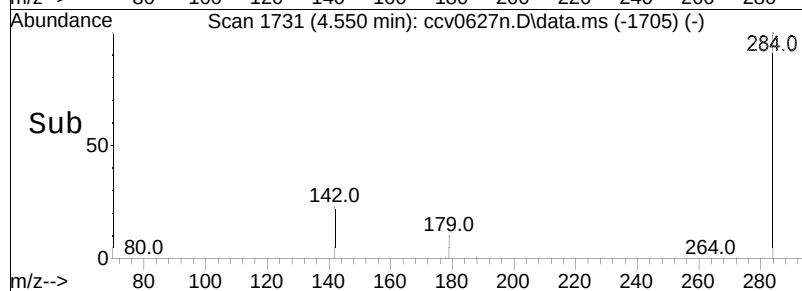
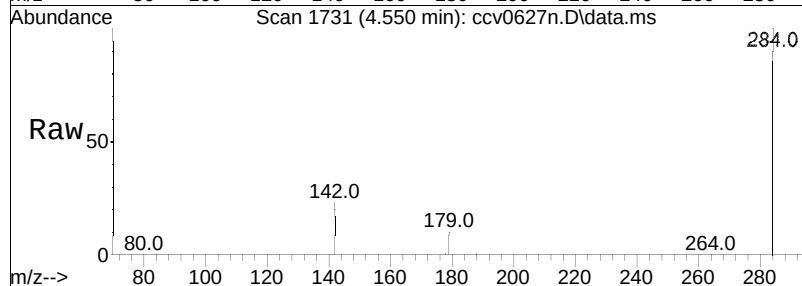
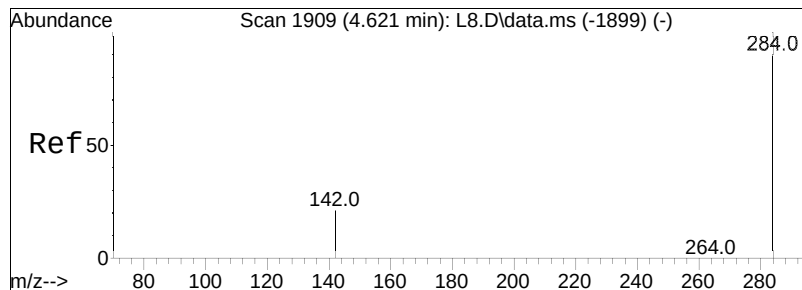




#24
 4,6-Dinitro-o-cresol
 Concen: 769.63 ng/ml
 RT: 4.259 min Scan# 1596
 Delta R.T. 0.000 min
 Lab File: ccv0627n.D
 Acq: 27 Jun 2025 04:09 pm

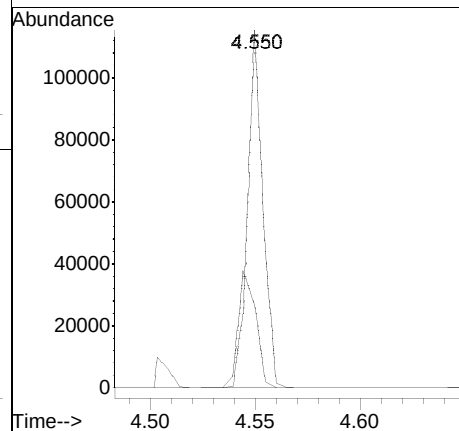
Tgt Ion	Ratio	Lower	Upper
198	100		
105	39.2	32.1	48.1

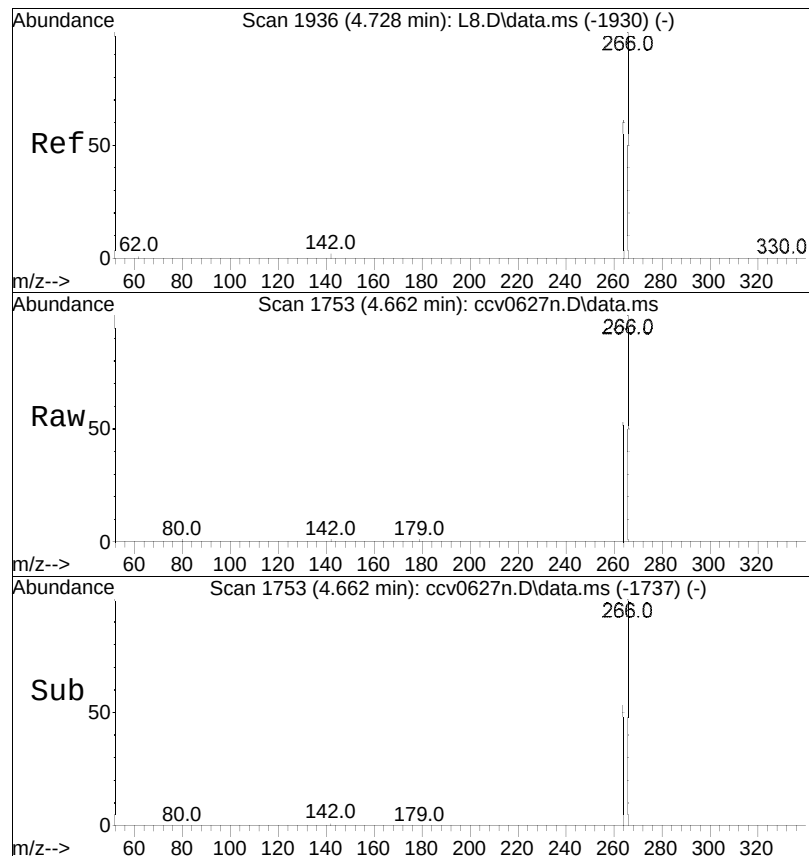




#25
 Hexachlorobenzene
 Concen: 771.55 ng/ml
 RT: 4.550 min Scan# 1731
 Delta R.T. 0.000 min
 Lab File: ccv0627n.D
 Acq: 27 Jun 2025 04:09 pm

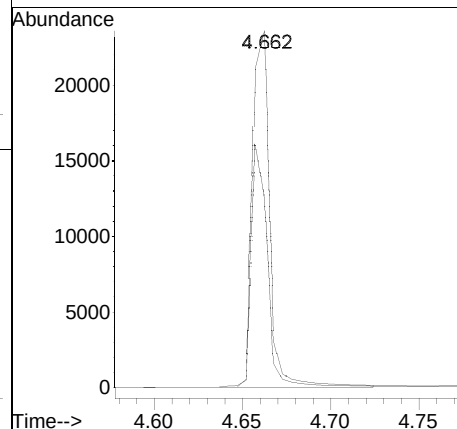
Tgt Ion: 284 Resp: 56958
 Ion Ratio Lower Upper
 284 100
 142 38.1 28.8 43.2

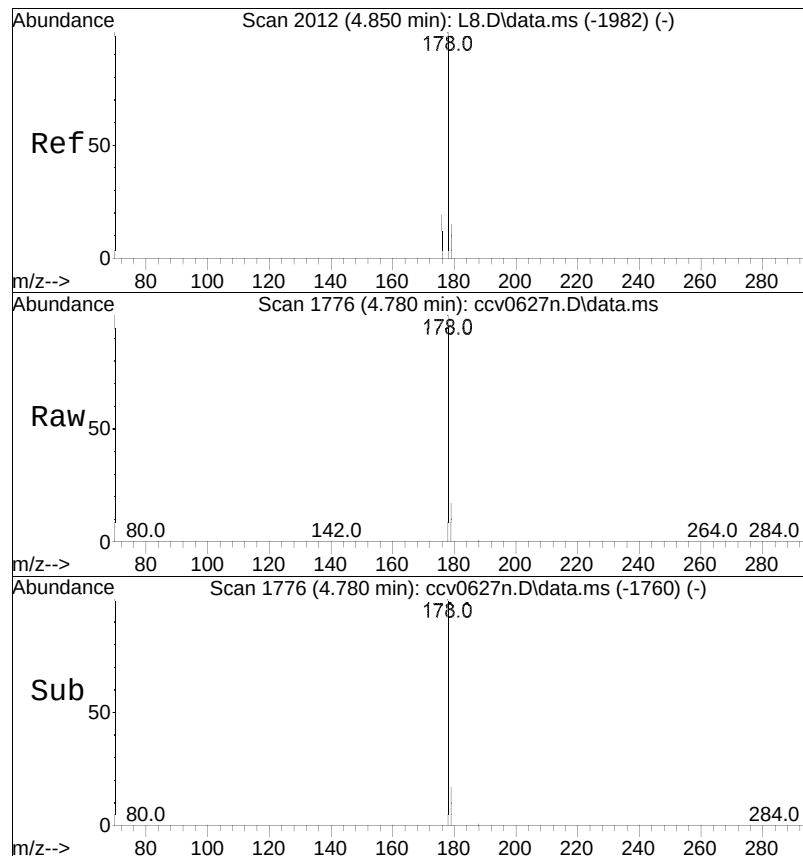




#26
 Pentachlorophenol
 Concen: 550.38 ng/ml
 RT: 4.662 min Scan# 1753
 Delta R.T. 0.000 min
 Lab File: ccv0627n.D
 Acq: 27 Jun 2025 04:09 pm

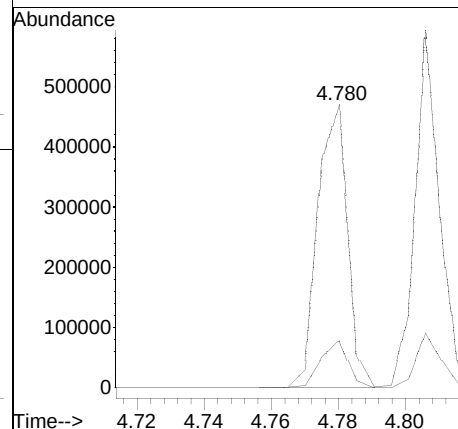
Tgt	Ion	Ratio	Lower	Upper
266	100			
264	63.3	50.6	76.0	

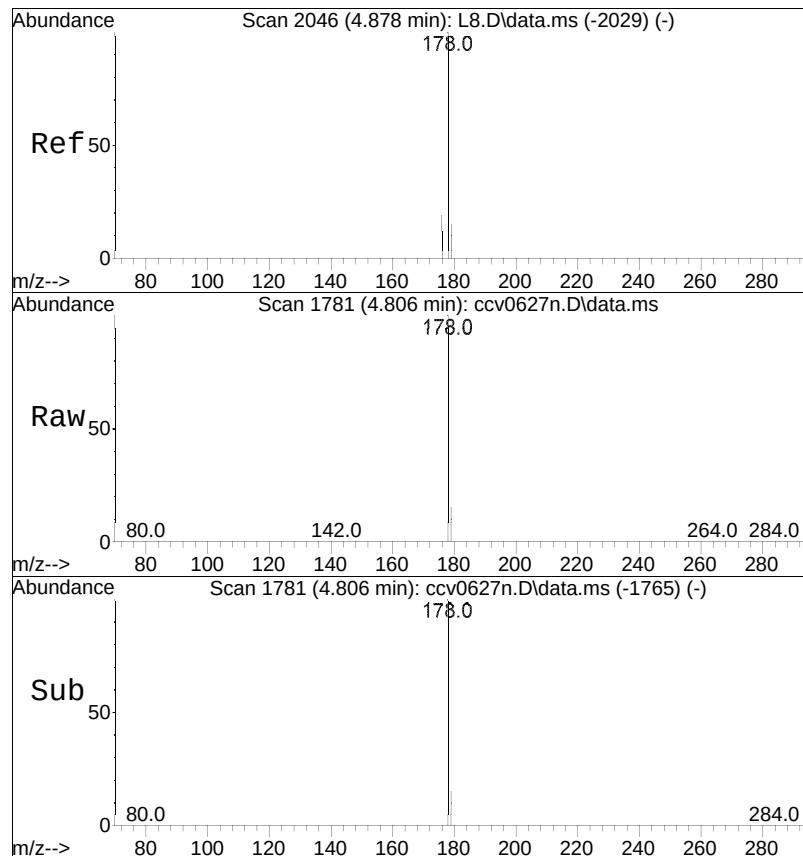




#27
 Phenanthrene
 Concen: 911.21 ng/ml
 RT: 4.780 min Scan# 1776
 Delta R.T. 0.000 min
 Lab File: ccv0627n.D
 Acq: 27 Jun 2025 04:09 pm

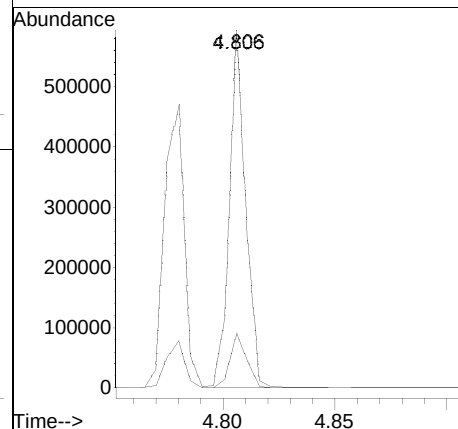
Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.6	12.4	18.6

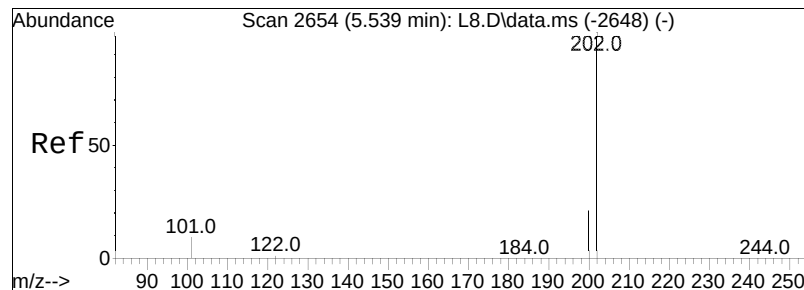




#28
 Anthracene
 Concen: 929.62 ng/ml
 RT: 4.806 min Scan# 1781
 Delta R.T. 0.000 min
 Lab File: ccv0627n.D
 Acq: 27 Jun 2025 04:09 pm

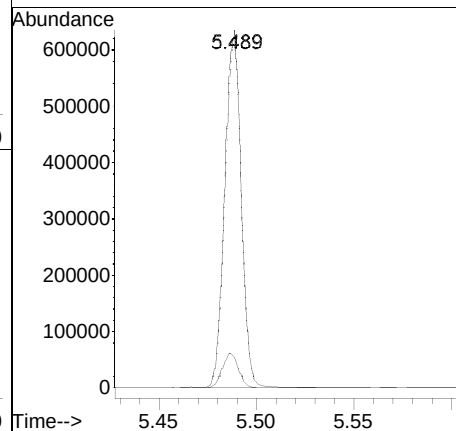
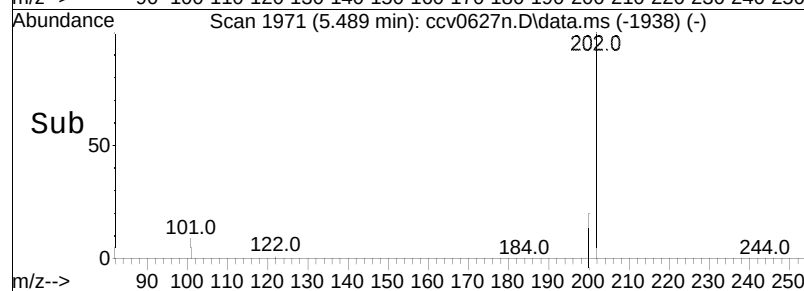
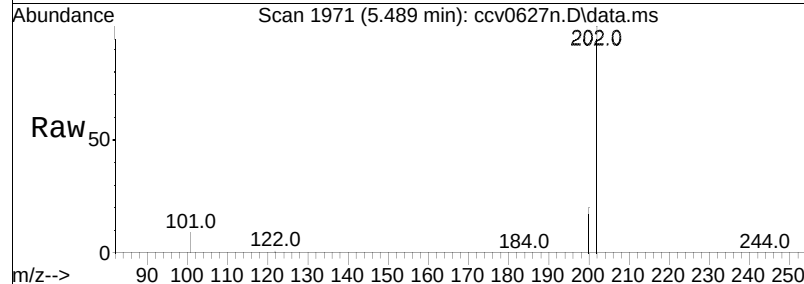
Tgt Ion:178 Resp: 297344
 Ion Ratio Lower Upper
 178 100
 179 15.8 12.2 18.2

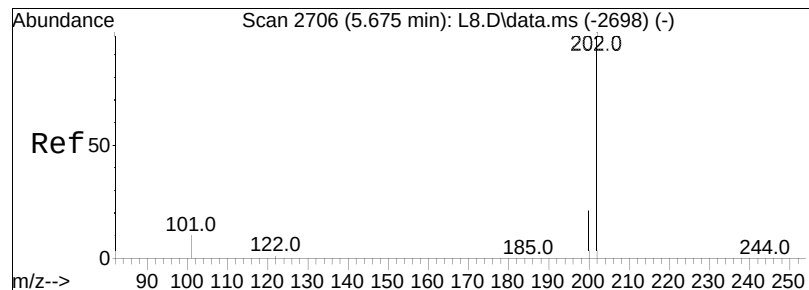




#29
 Fluoranthene
 Concen: 871.39 ng/ml
 RT: 5.489 min Scan# 1971
 Delta R.T. 0.000 min
 Lab File: ccv0627n.D
 Acq: 27 Jun 2025 04:09 pm

Tgt	Ion	Ratio	Lower	Upper
202	100			
101	9.7	7.5	11.3	





#30

Pyrene

Concen: 855.16 ng/ml

RT: 5.628 min Scan# 2028

Delta R.T. 0.000 min

Lab File: ccv0627n.D

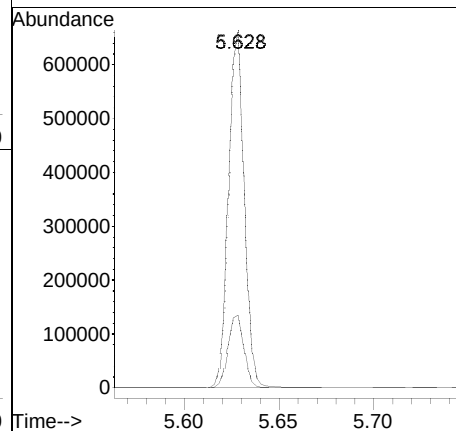
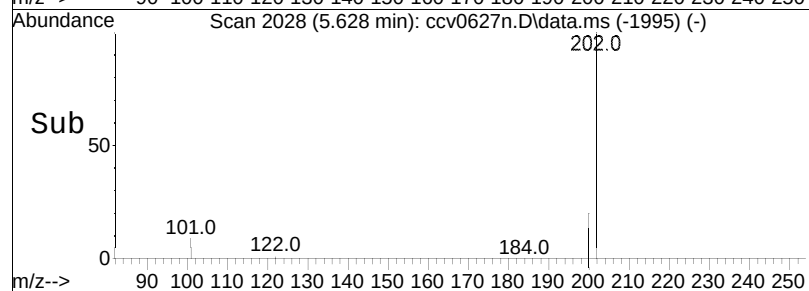
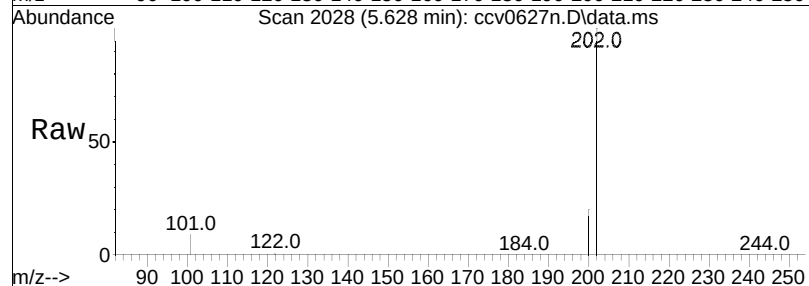
Acq: 27 Jun 2025 04:09 pm

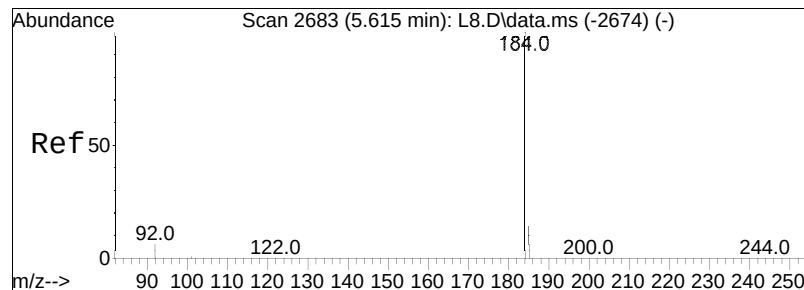
Tgt Ion: 202 Resp: 375446

Ion Ratio Lower Upper

202 100

200 21.0 17.0 25.4





#31

Benzidine

Concen: 573.75 ng/mL

RT: 5.567 min Scan# 2003

Delta R.T. 0.000 min

Lab File: ccv0627n.D

Acq: 27 Jun 2025 04:09 pm

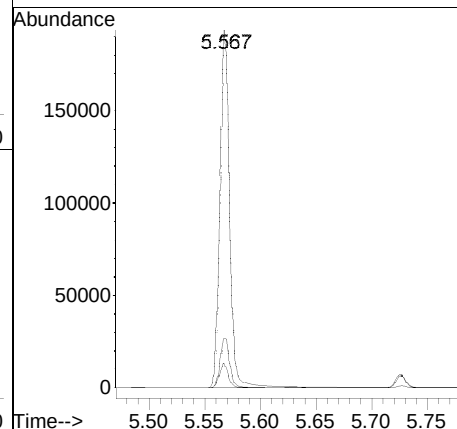
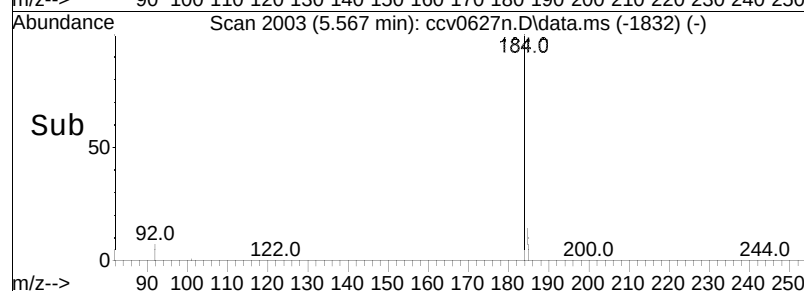
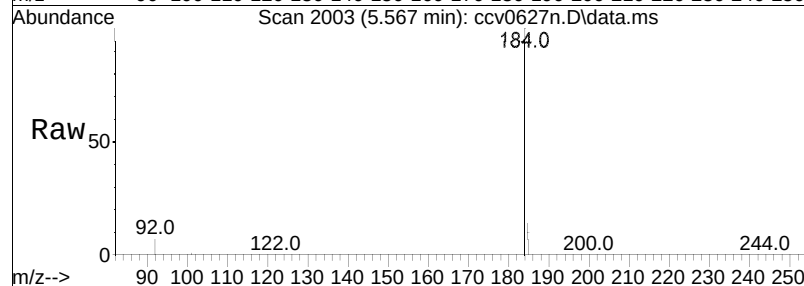
Tgt Ion:184 Resp: 113834

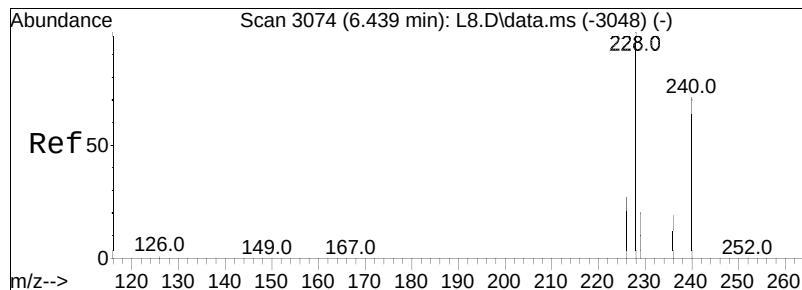
Ion Ratio Lower Upper

184 100

92 6.4 5.2 7.8

185 13.9 11.2 16.8





#34

Benzo[a]anthracene

Concen: 963.19 ng/ml

RT: 6.405 min Scan# 2446

Delta R.T. 0.000 min

Lab File: ccv0627n.D

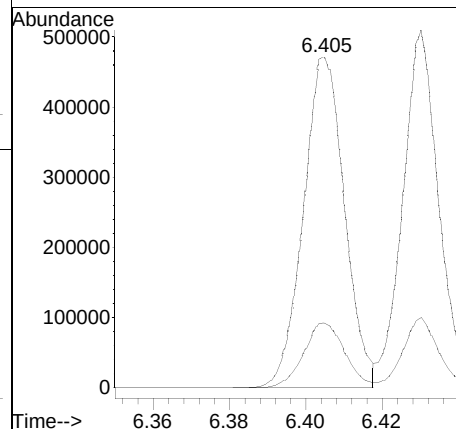
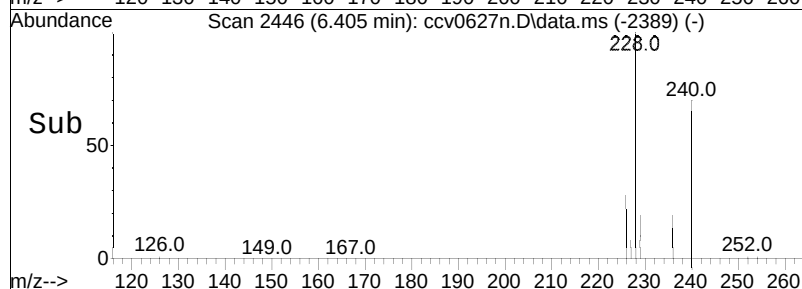
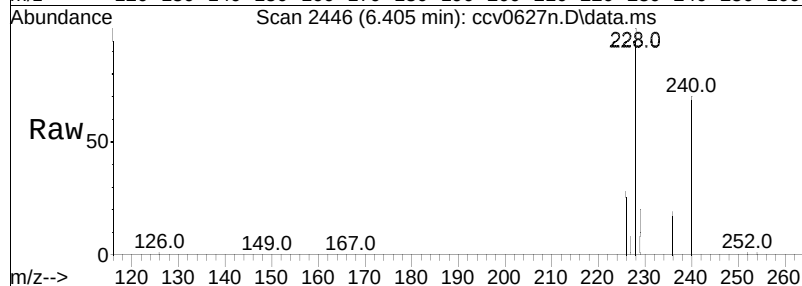
Acq: 27 Jun 2025 04:09 pm

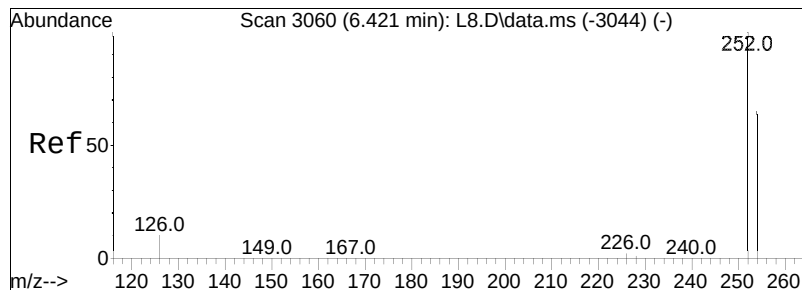
Tgt Ion:228 Resp: 352140

Ion Ratio Lower Upper

228 100

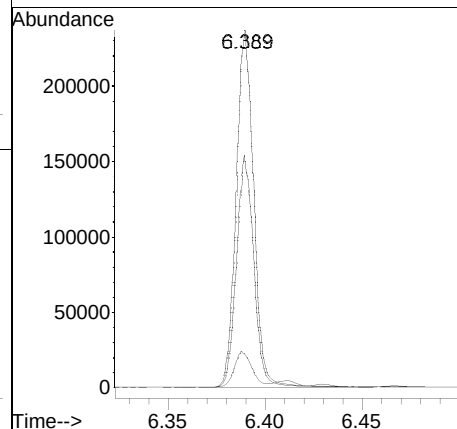
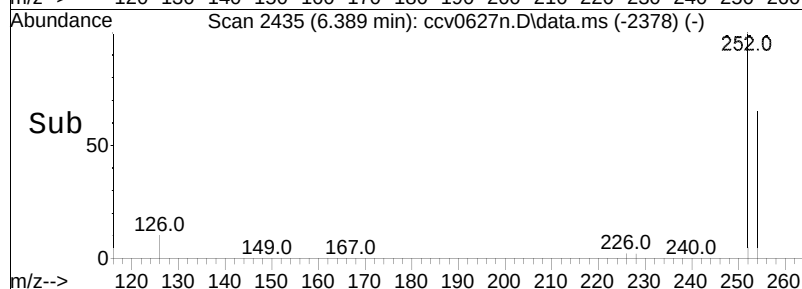
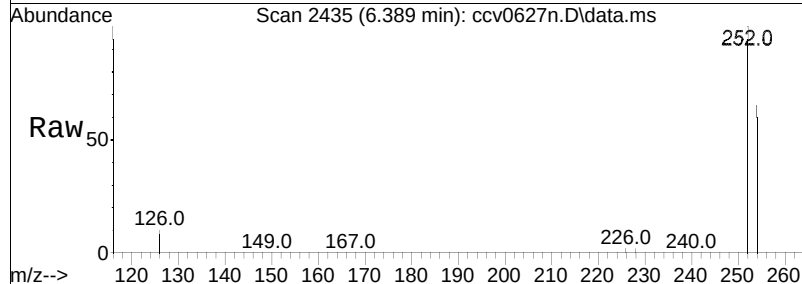
229 19.6 15.8 23.6

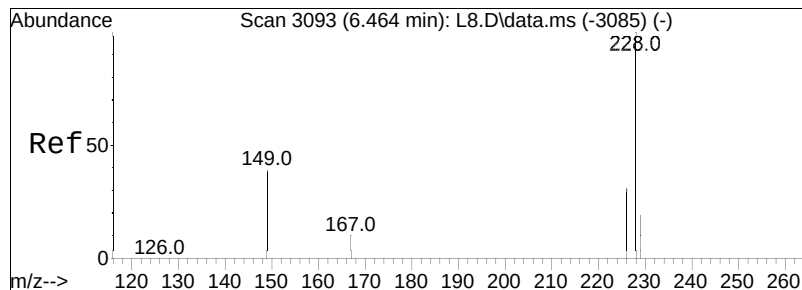




#35
 3,3'-Dichlorobenzidine
 Concen: 1016.95 ng/ml
 RT: 6.389 min Scan# 2435
 Delta R.T. 0.000 min
 Lab File: ccv0627n.D
 Acq: 27 Jun 2025 04:09 pm

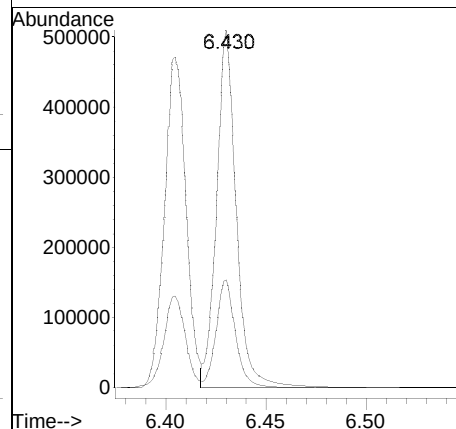
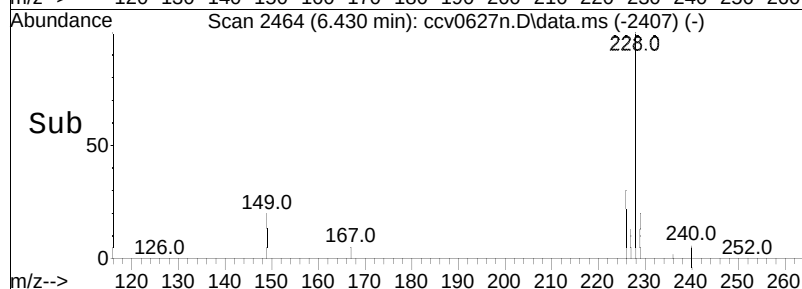
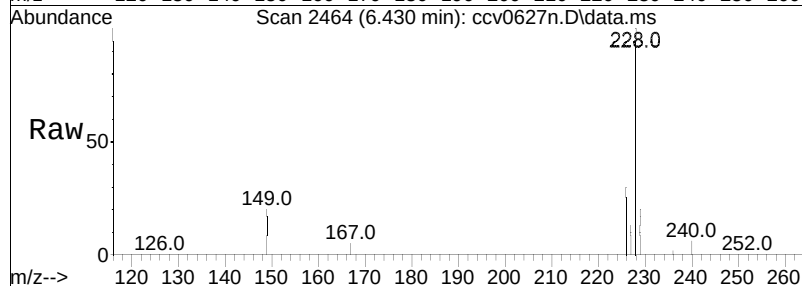
Tgt Ion	Ratio	Lower	Upper
252	100		
126	10.2	7.7	11.5
254	64.4	51.8	77.6

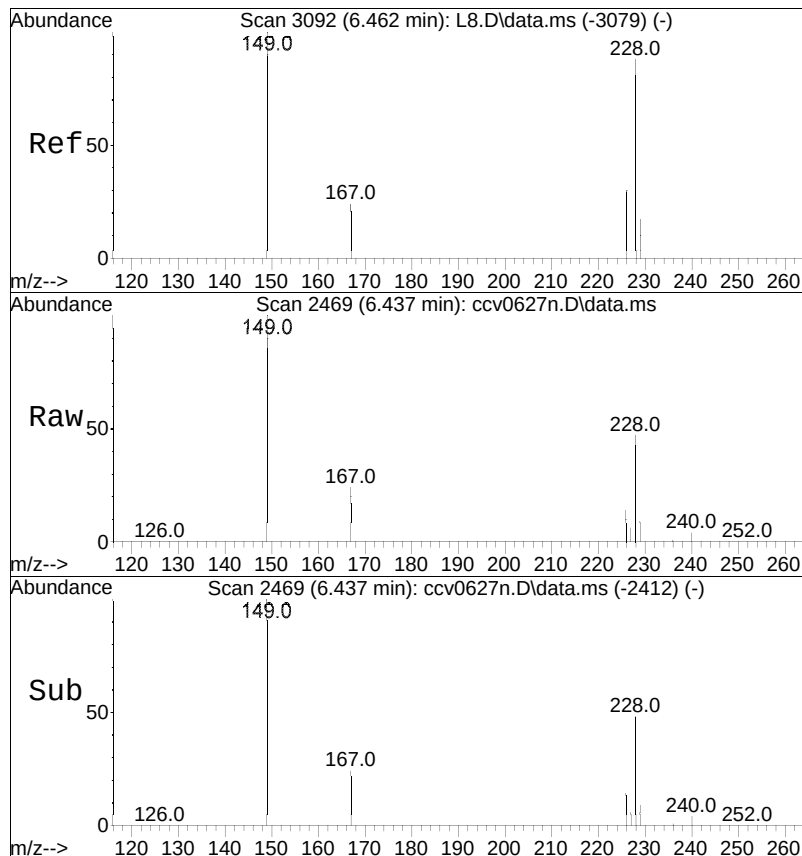




#36
 Chrysene
 Concen: 986.70 ng/ml
 RT: 6.430 min Scan# 2464
 Delta R.T. 0.000 min
 Lab File: ccv0627n.D
 Acq: 27 Jun 2025 04:09 pm

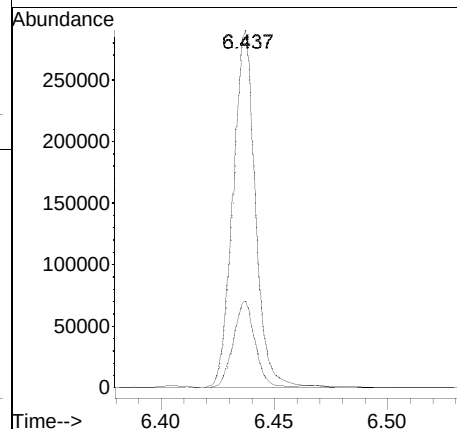
Tgt Ion: 228 Resp: 345312
 Ion Ratio Lower Upper
 228 100
 226 30.5 24.6 37.0

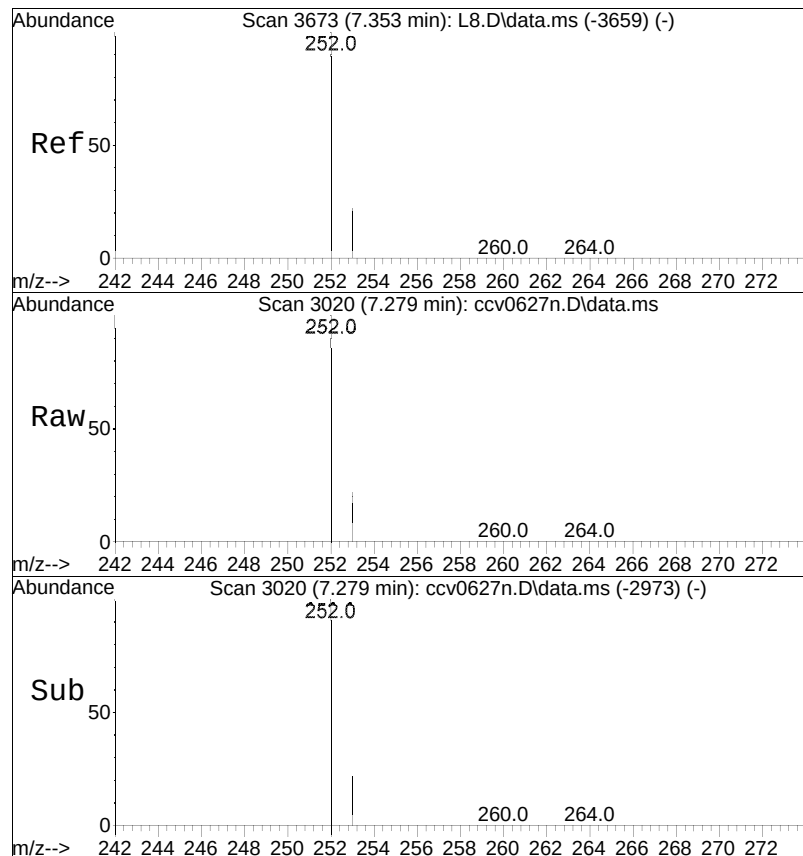




#37
 Bis(2-ethylhexyl)phthalate
 Concen: 1029.35 ng/ml
 RT: 6.437 min Scan# 2469
 Delta R.T. 0.000 min
 Lab File: ccv0627n.D
 Acq: 27 Jun 2025 04:09 pm

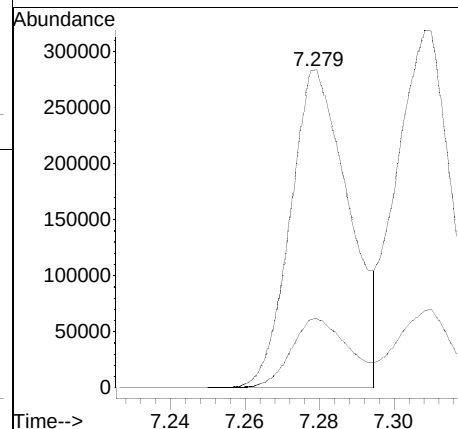
Tgt Ion	Ratio	Lower	Upper
149	100		
167	23.7	19.6	29.4

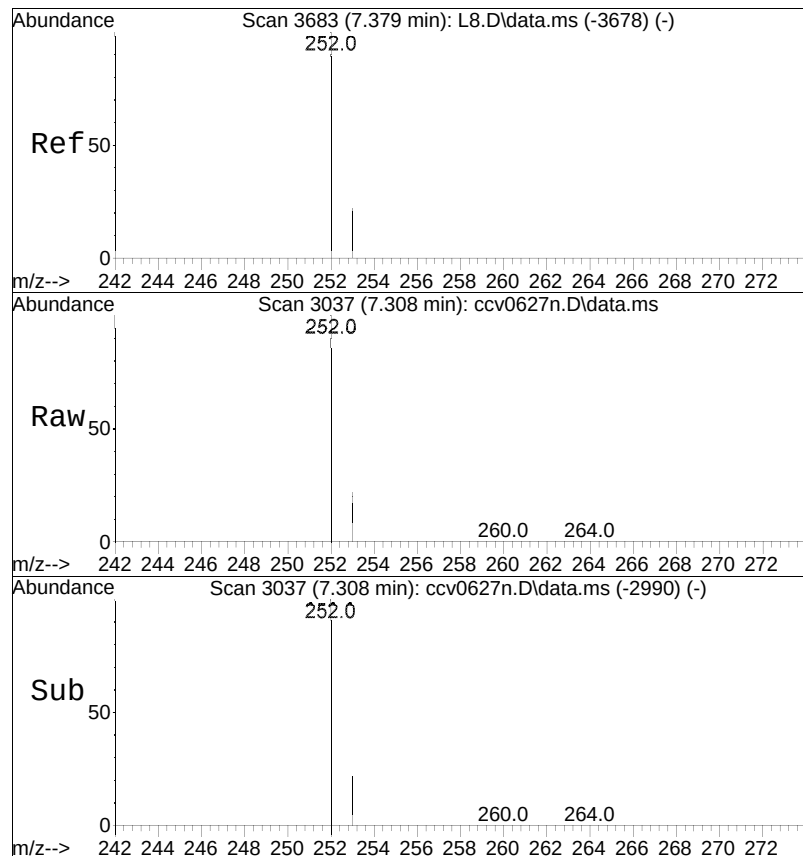




#39
 Benzo[b]fluoranthene
 Concen: 1042.31 ng/ml
 RT: 7.279 min Scan# 3020
 Delta R.T. 0.000 min
 Lab File: ccv0627n.D
 Acq: 27 Jun 2025 04:09 pm

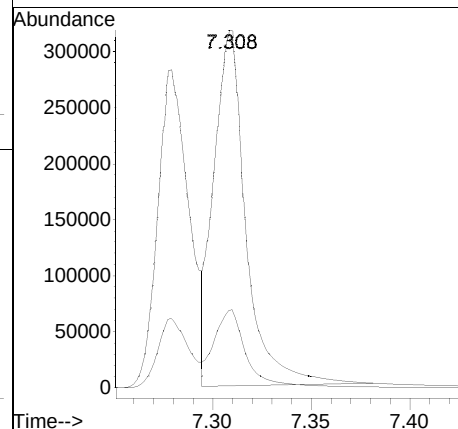
Tgt	Ion	Ratio	Lower	Upper
252	100			
253	21.7	18.1	27.1	

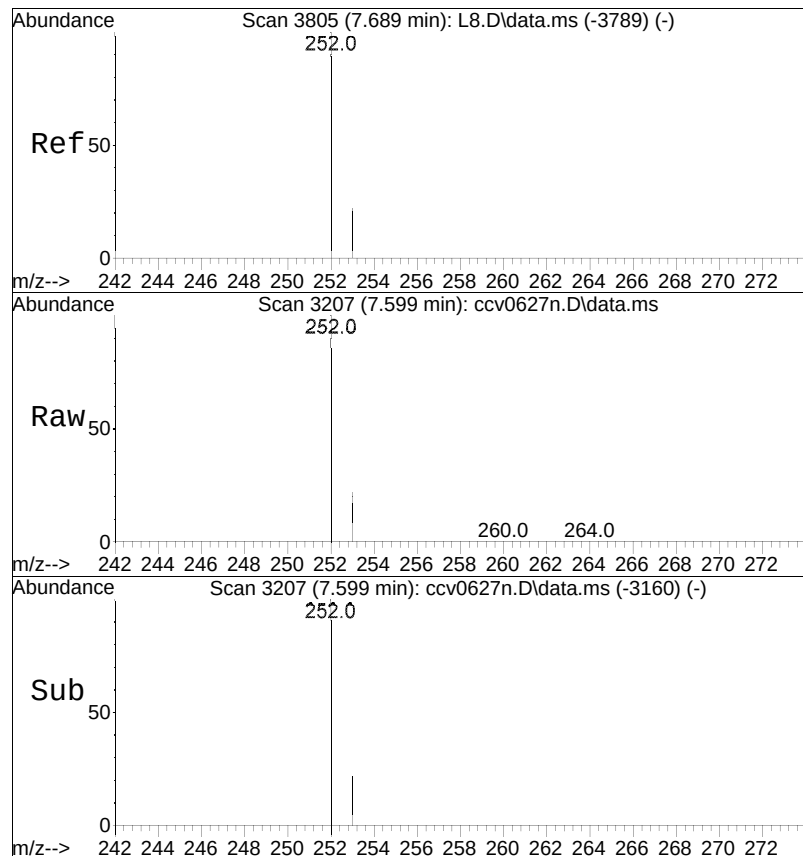




#40
 Benzo[k]fluoranthene
 Concen: 1044.26 ng/ml
 RT: 7.308 min Scan# 3037
 Delta R.T. 0.000 min
 Lab File: ccv0627n.D
 Acq: 27 Jun 2025 04:09 pm

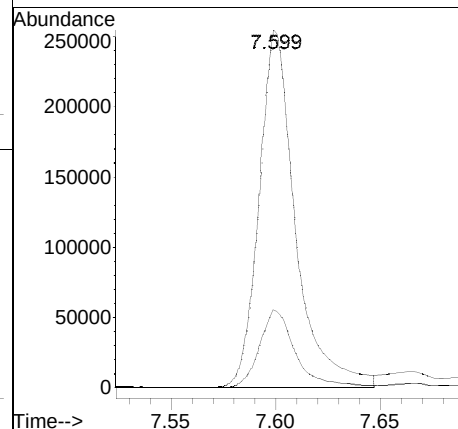
Tgt	Ion	Ratio	Lower	Upper
252	100			
253	21.8	17.0	25.4	

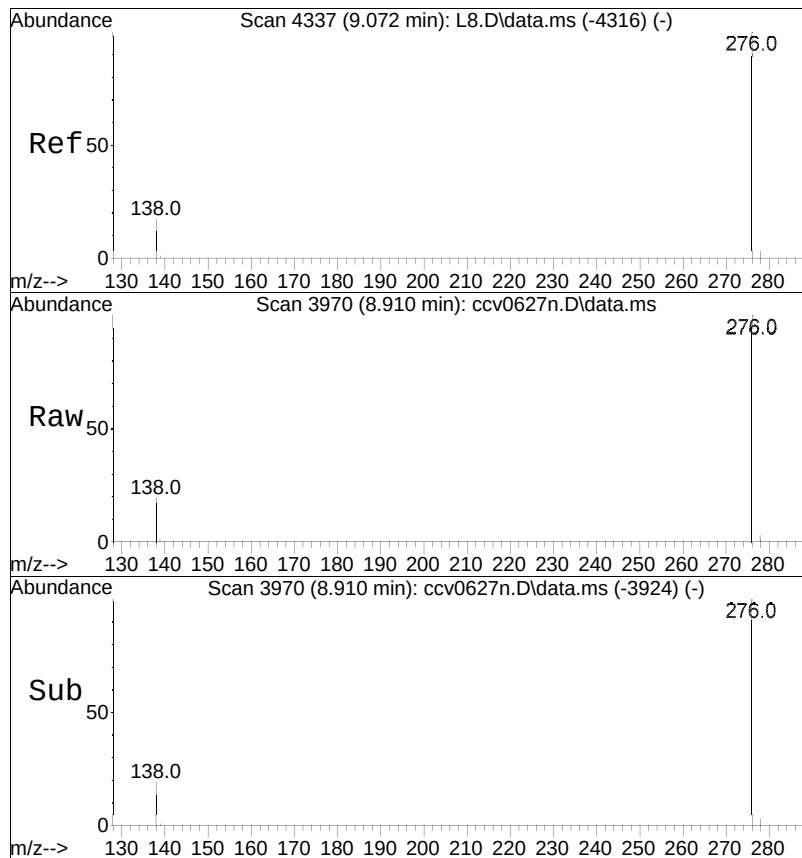




#41
 Benzo[a]pyrene
 Concen: 1070.46 ng/ml
 RT: 7.599 min Scan# 3207
 Delta R.T. 0.000 min
 Lab File: ccv0627n.D
 Acq: 27 Jun 2025 04:09 pm

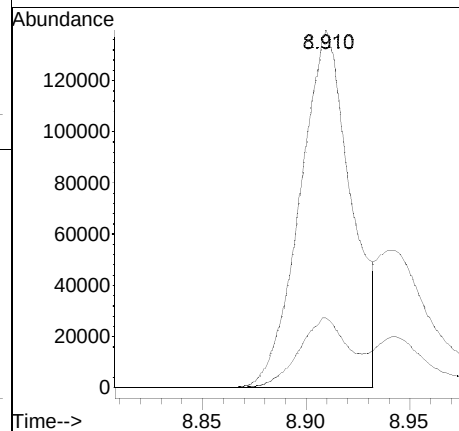
Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.4	26.0

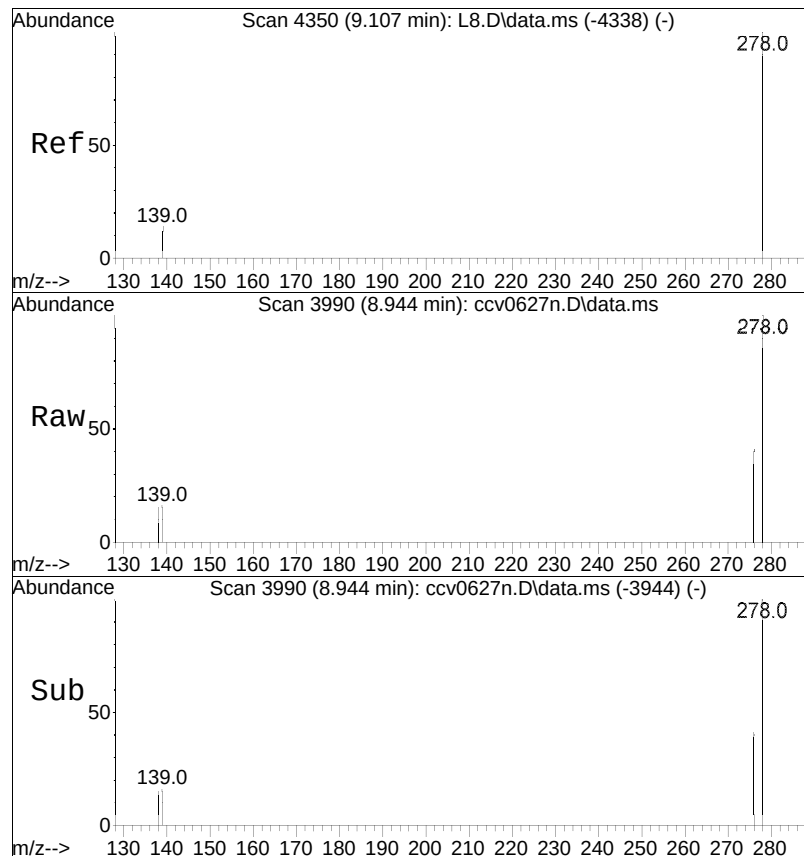




#42
 Indeno[1,2,3-cd]pyrene
 Concen: 938.42 ng/ml
 RT: 8.910 min Scan# 3970
 Delta R.T. 0.000 min
 Lab File: ccv0627n.D
 Acq: 27 Jun 2025 04:09 pm

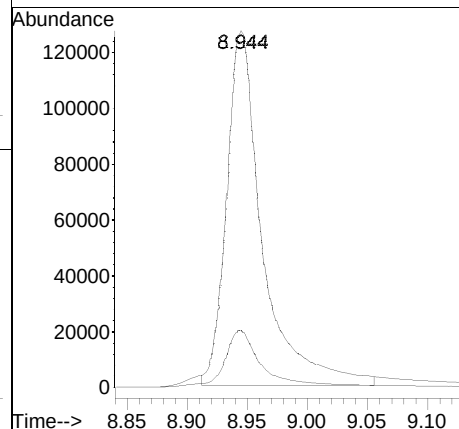
Tgt Ion	Ratio	Lower	Upper
276	100		
138	18.8	14.4	21.6

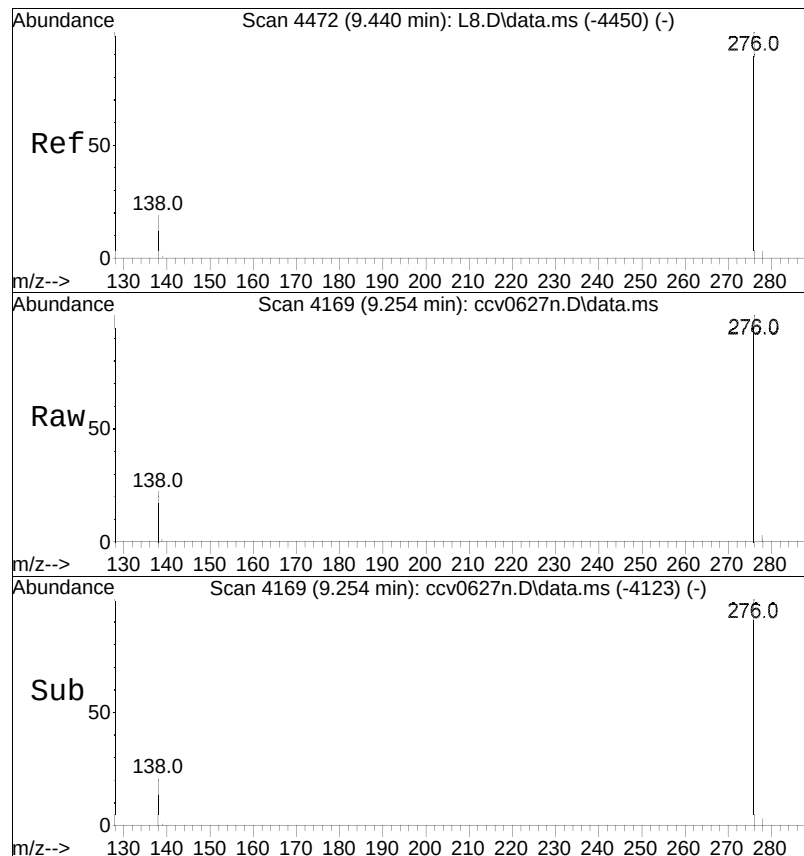




#43
 Dibenzo[a,h]anthracene
 Concen: 1019.87 ng/ml M4
 RT: 8.944 min Scan# 3990
 Delta R.T. 0.000 min
 Lab File: ccv0627n.D
 Acq: 27 Jun 2025 04:09 pm

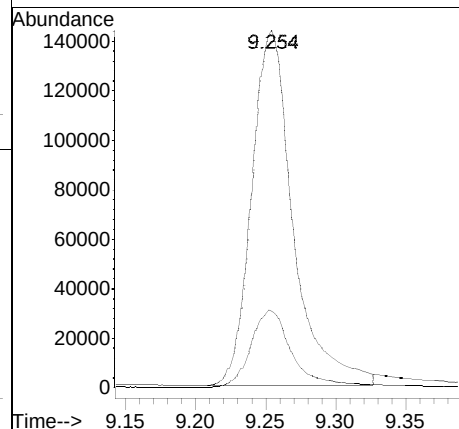
Tgt Ion	Ratio	Lower	Upper
278	100		
139	16.3	12.1	18.1





#44
 Benzo[g,h,i]perylene
 Concen: 1117.27 ng/ml
 RT: 9.254 min Scan# 4169
 Delta R.T. 0.000 min
 Lab File: ccv0627n.D
 Acq: 27 Jun 2025 04:09 pm

Tgt Ion	Ratio	Lower	Upper
276	100		
138	21.6	16.0	24.0

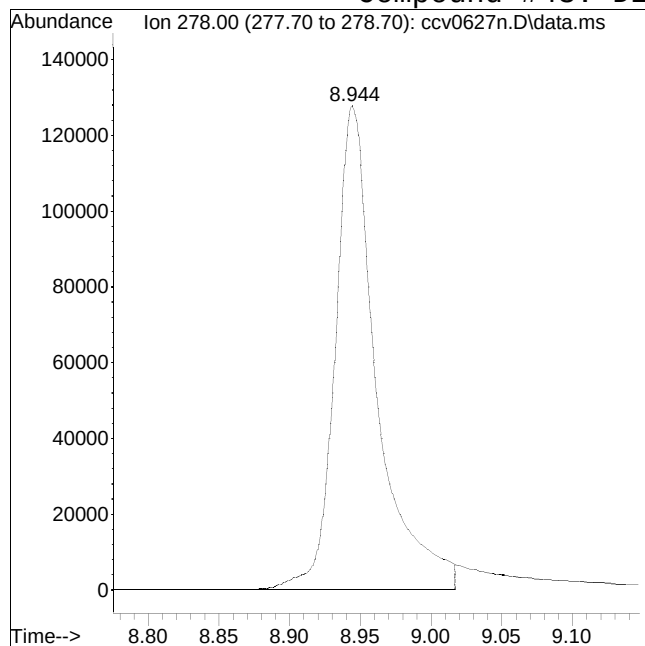


Manual Integration Report

Data Path : I:\8270SIM\sv119\250627nRV00001.D
Data File : ccv0627n.D
Date Inj'd : 6/27/2025 4:09 pm
Sample : wg2084498-3,32,,ICV 11275

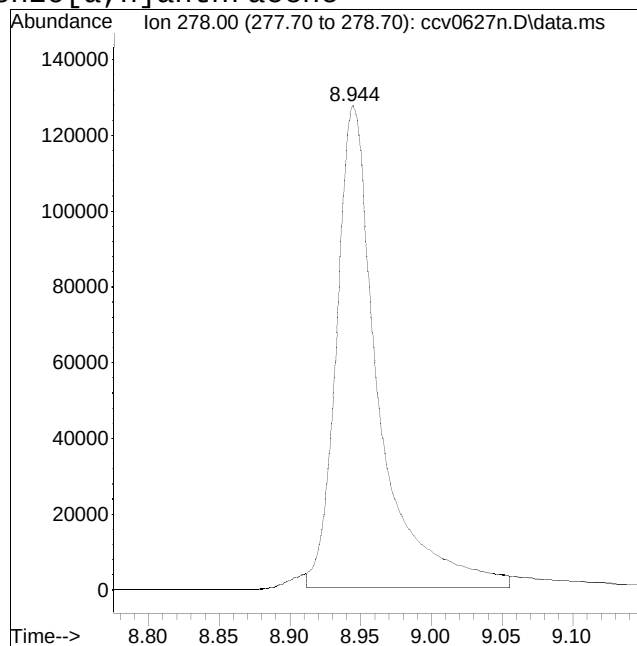
Method : SIM-RVT_250625_sv119.M
Operator : sv119:dv
Instrument : SV119
Date : 6/27/2025 4:25 pm

Compound #43: Dibenzo[a,h]anthracene



Original Peak Response = 262138

M4 = Poor automated baseline construction.

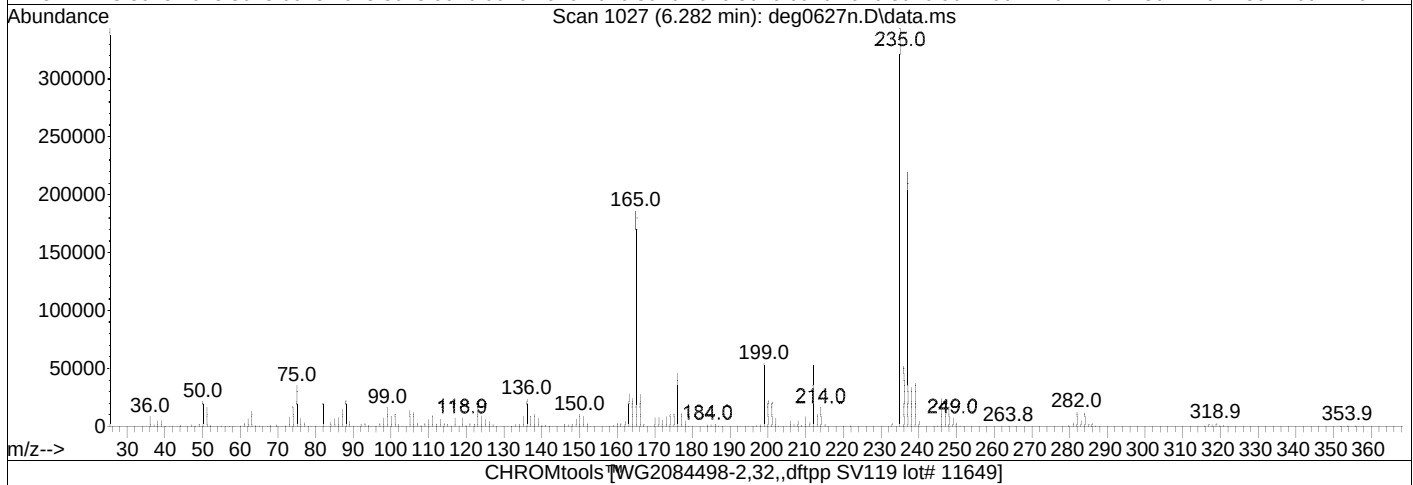
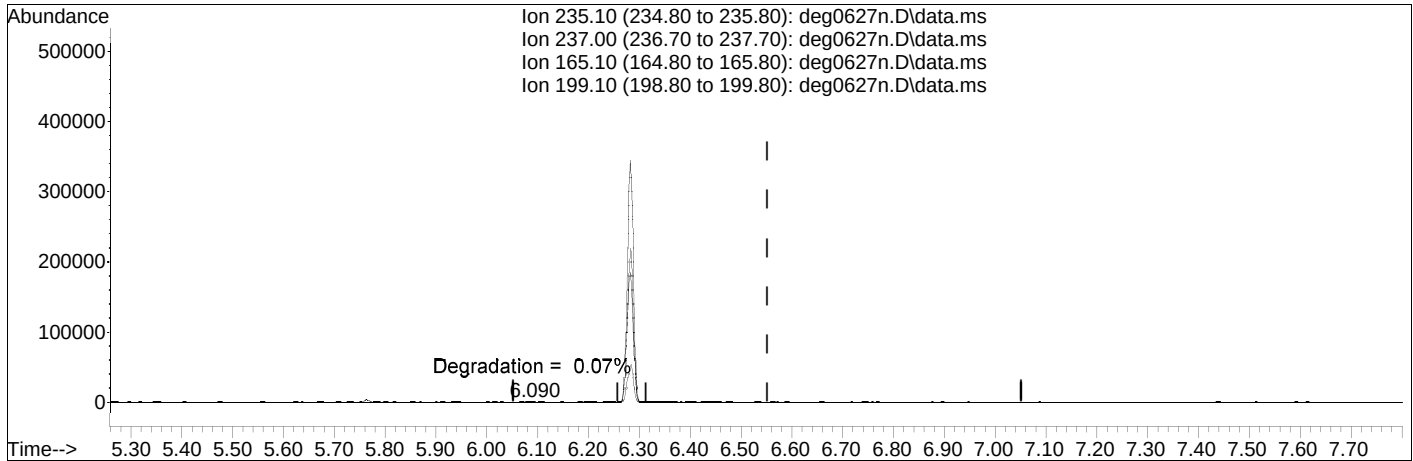


Manual Peak Response = 264087 M4

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\250627nRVT\
Data File : deg0627n.D
Acq On : 27 Jun 2025 03:44 pm
Operator : sv119:dv
Sample : WG2084498-2,32,,dftpp SV119 lot# 11649
Misc : wg2084498,,ical22426
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Jun 27 16:03:25 2025
Quant Method : I:\8270SIM\sv119\250627nRVT\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 25 20:04:49 2025
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D



CHROMtools\WG2084498-2,32,,dftpp SV119 lot# 11649]

(6) ddt (T)

6.282min (-0.270) 44.01

response 268286

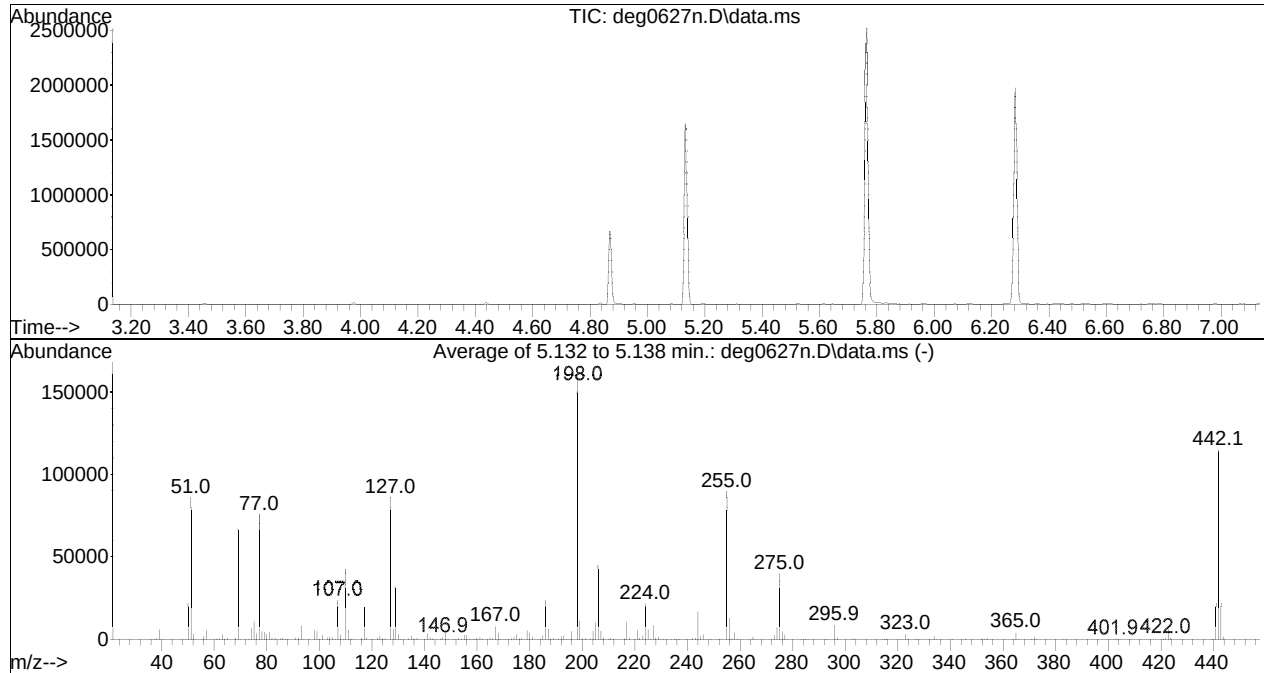
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	65.60	63.94
165.10	53.30	55.52
199.10	17.10	15.75

DFTPP

Data Path : I:\8270SIM\sv119\250627nRVT\
 Data File : deg0627n.D
 Acq On : 27 Jun 2025 03:44 pm
 Operator : sv119:dv
 Sample : WG2084498-1,32,,dftpp SV119 lot# 11649
 Misc : wg2084498,,ical22426
 ALS Vial : 48 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270SIM\sv119\250627nRVT\SIM-RVT_250625_sv119.M
 Title : Semivolatiles by GC/MS by modified 8270
 Last Update : Fri Jun 27 16:24:54 2025



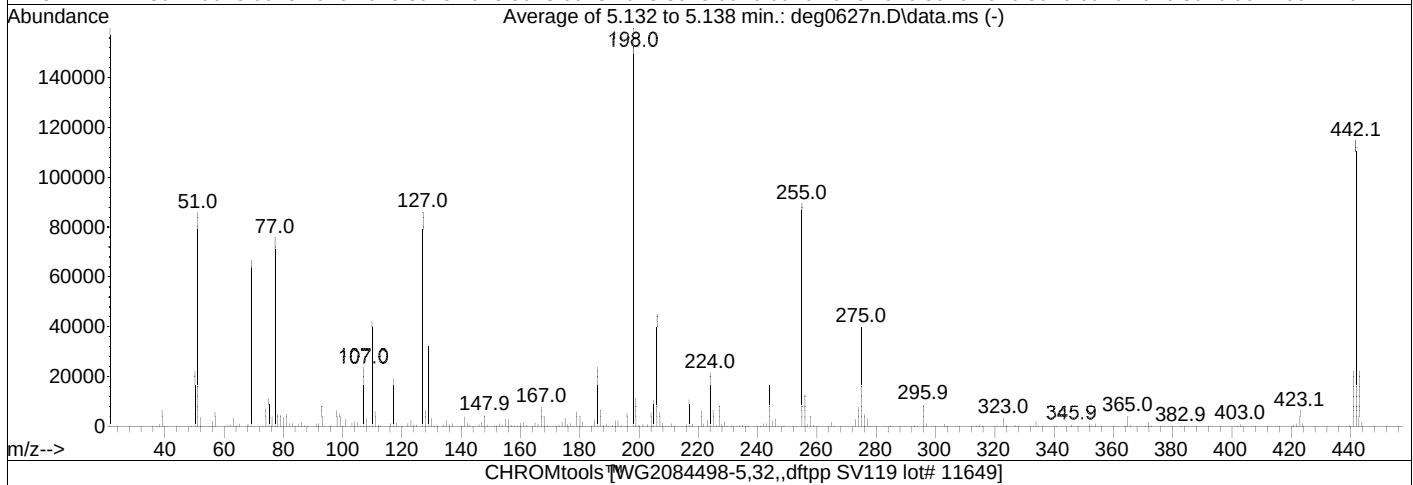
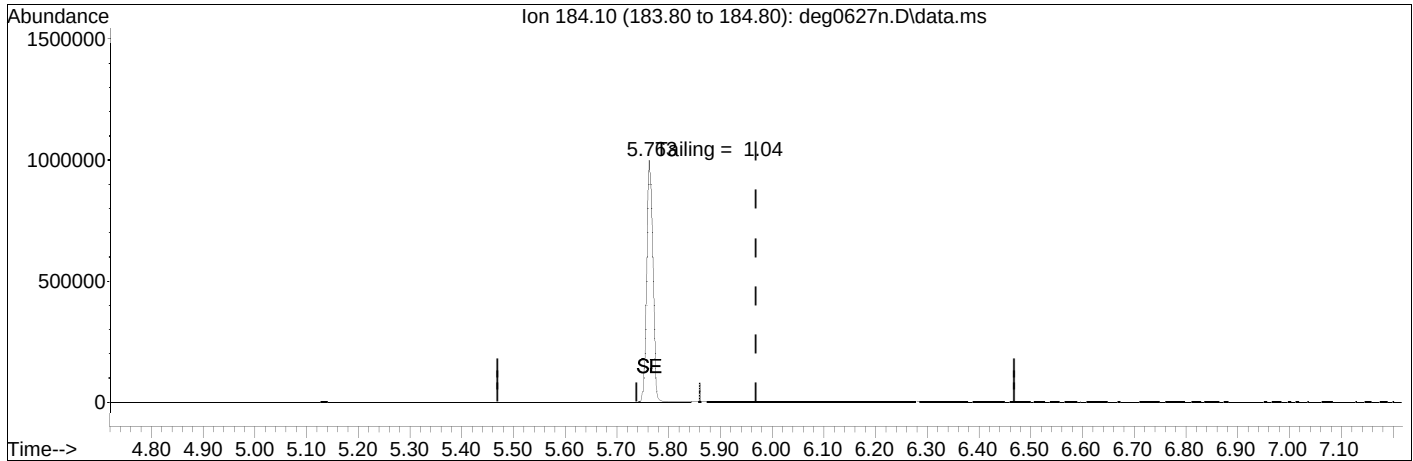
Spectrum Information: Average of 5.132 to 5.138 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	53.7	85796	PASS
68	69	0.00	2	1.9	1265	PASS
69	69	100	100	100.0	66576	PASS
70	69	0.00	2	0.3	223	PASS
127	198	10	80	53.8	86011	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	159872	PASS
199	198	5	9	7.0	11213	PASS
275	198	10	60	25.0	39960	PASS
365	198	1	100	2.6	4176	PASS
441	442	0.01	24	19.3	22131	PASS
442	198	50	100	71.7	114597	PASS
443	442	15	24	19.2	21965	PASS

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\250627nRVT\
Data File : deg0627n.D
Acq On : 27 Jun 2025 03:44 pm
Operator : sv119:dv
Sample : WG2084498-4,32,,dftpp SV119 lot# 11649
Misc : wg2084498,,ical22426
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Jun 27 16:03:25 2025
Quant Method : I:\8270SIM\sv119\250627nRVT\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 25 20:04:49 2025
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D



(3) benzidine (T)

5.763min (-0.206) 77.32

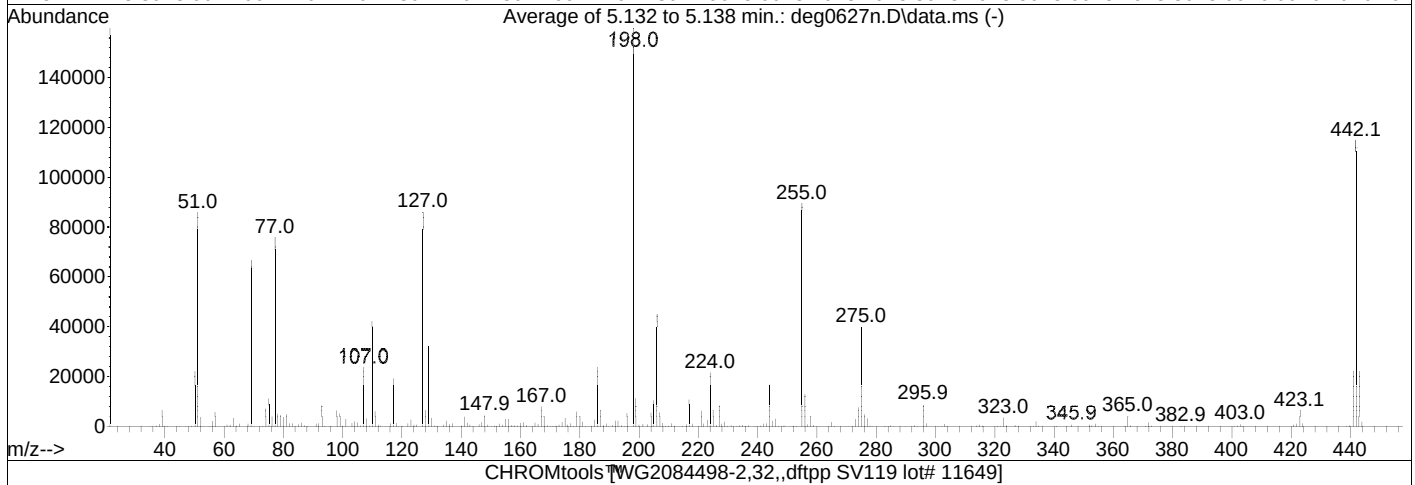
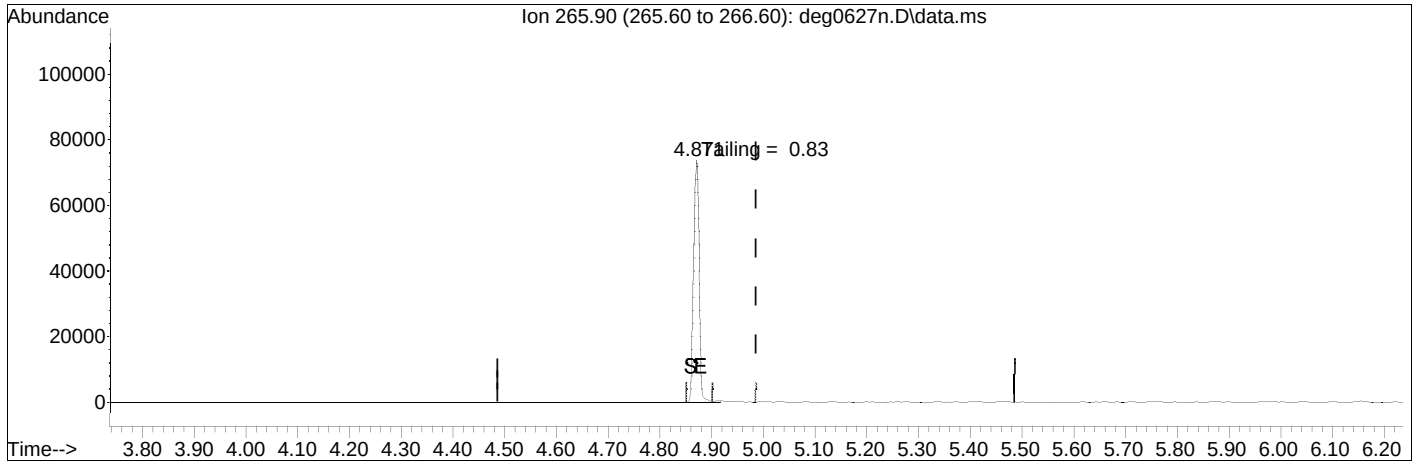
response 787153

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270SIM\sv119\250627nRVT\
Data File : deg0627n.D
Acq On : 27 Jun 2025 03:44 pm
Operator : sv119:dv
Sample : WG2084498-5,32,,dftpp SV119 lot# 11649
Misc : wg2084498,,ical22426
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Jun 27 16:03:25 2025
Quant Method : I:\8270SIM\sv119\250627nRVT\dftppsv119.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Jun 25 20:04:49 2025
Response via : Continuing Cal File: C:\ENVDEMO\BNADATA\DLWB002.D



(1) pentachlorophenol (T)

4.871min (-0.115) 24.02

response 50441

Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Semivolatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250627nRVT\
 Data File : 081607-1.D
 Acq On : 27 Jun 2025 04:45 pm
 Operator : sv119:dv
 Sample : WG2081607-1,32,,DV
 Misc : WG2084498,WG2081607,ical22426
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 27 18:07:22 2025
 Quant Method : I:\8270sim\sv119\250627nRVT\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jun 27 16:24:54 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\250627nRVT\ccv0627n.D
 Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.295	152	232553	4000.000	ng/ml	0.01
Standard Area 1 = 237452			Recovery = 97.94%			
9) Naphthalene-d8	2.956	136	863622	4000.000	ng/ml	0.00
Standard Area 1 = 908349			Recovery = 95.08%			
18) Acenaphthene-d10	3.928	164	511558	4000.000	ng/ml	0.00
Standard Area 1 = 521676			Recovery = 98.06%			
23) Phenanthrene-d10	4.765	188	1061930	4000.000	ng/ml	0.00
Standard Area 1 = 1047157			Recovery = 101.41%			
33) Chrysene-d12	6.362	240	1076655	4000.000	ng/ml	-0.05
Standard Area 1 = 1073641			Recovery = 100.28%			
38) Perylene-d12	7.613	264	1038787	4000.000	ng/ml	-0.05
Standard Area 1 = 1075366			Recovery = 96.60%			
System Monitoring Compounds						
3) 2-Fluorophenol	1.708	112	63691	947.774	ng/ml	0.02
Spiked Amount 2000.000	Range 15 - 110		Recovery = 47.39%			
4) Phenol-d6	2.104	99	59375	711.322	ng/ml	0.01
Spiked Amount 2000.000	Range 15 - 110		Recovery = 35.57%			
8) Nitrobenzene-d5	2.572	82	50279	657.796	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 65.78%			
14) 2-Fluorobiphenyl	3.550	172	144868	748.580	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery = 74.86%			
22) 2,4,6-Tribromophenol	4.372	330	23095	786.317	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery = 39.32%			
32) 4-Terphenyl-d14	5.698	244	226144	770.298	ng/ml	-0.03
Spiked Amount 1000.000	Range 30 - 130		Recovery = 77.03%			
Target Compounds						
						Qvalue
5) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
7) Hexachloroethane	0.000		0	N.D.		
10) Naphthalene	0.000		0	N.D.	d	
11) Hexachlorobutadiene	0.000		0	N.D.		
12) 2-Methylnaphthalene	0.000		0	N.D.	d	
15) 2-Chloronaphthalene	0.000		0	N.D.	d	
17) Acenaphthylene	0.000		0	N.D.	d	
19) Acenaphthene	0.000		0	N.D.	d	
21) Fluorene	0.000		0	N.D.	d	
25) Hexachlorobenzene	0.000		0	N.D.	d	

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250627nRVT\
 Data File : 081607-1.D
 Acq On : 27 Jun 2025 04:45 pm
 Operator : sv119:dv
 Sample : WG2081607-1,32,,DV
 Misc : WG2084498,WG2081607,ical22426
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 27 18:07:22 2025
 Quant Method : I:\8270sim\sv119\250627nRVT\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jun 27 16:24:54 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\250627nRVT\ccv0627n.D
 Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) Pentachlorophenol	0.000		0		N.D.	
27) Phenanthrene	0.000		0		N.D.	d
28) Anthracene	0.000		0		N.D.	d
29) Fluoranthene	0.000		0		N.D.	d
30) Pyrene	0.000		0		N.D.	d
34) Benzo[a]anthracene	0.000		0		N.D.	d
36) Chrysene	0.000		0		N.D.	d
39) Benzo[b]fluoranthene	0.000		0		N.D.	d
40) Benzo[k]fluoranthene	0.000		0		N.D.	d
41) Benzo[a]pyrene	0.000		0		N.D.	d
42) Indeno[1,2,3-cd]pyrene	0.000		0		N.D.	d
43) Dibenzo[a,h]anthracene	0.000		0		N.D.	d
44) Benzo[g,h,i]perylene	0.000		0		N.D.	d

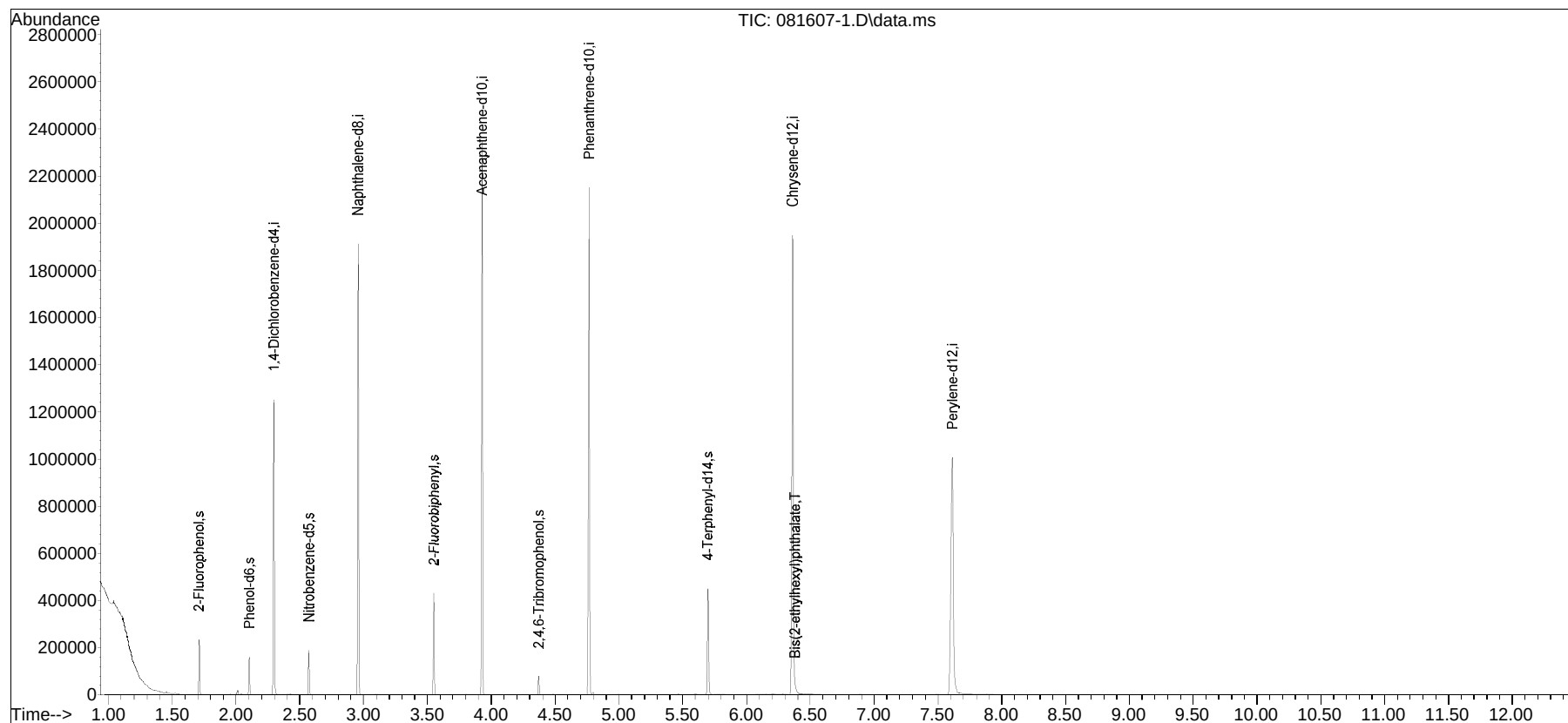
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250627nRVT\
 Data File : 081607-1.D
 Acq On : 27 Jun 2025 04:45 pm
 Operator : sv119:dv
 Sample : WG2081607-1,32,,DV
 Misc : WG2084498,WG2081607,ical22426
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 27 18:07:22 2025
 Quant Method : I:\8270sim\sv119\250627nRVT\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jun 27 16:24:54 2025
 Response via : Initial Calibration

Sub List : DEFAULT - All compounds listedT\ccv0627n.D•



Manual Integration Report

Data Path	: I:\8270SIM\sv119\250627nRV01	Method	: SIM-RVT_250625_sv119.M
Data File	: 081607-1.D	Operator	: sv119:dv
Date Inj'd	: 6/27/2025 4:45 pm	Instrument	: SV119
Sample	: WG2081607-1,32,,DV	Quant Date	: 6/27/2025 4:59 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250627nRVT\
 Data File : 081607-2.D
 Acq On : 27 Jun 2025 05:02 pm
 Operator : sv119:dv
 Sample : WG2081607-2,32,,DV
 Misc : WG2084498,WG2081607,ical22426
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 27 18:08:01 2025
 Quant Method : I:\8270sim\sv119\250627nRVT\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jun 27 16:24:54 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\250627nRVT\ccv0627n.D
 Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.300	152	243186	4000.000	ng/ml	0.02
Standard Area 1 = 237452			Recovery	= 102.41%		
9) Naphthalene-d8	2.961	136	945156	4000.000	ng/ml	0.01
Standard Area 1 = 908349			Recovery	= 104.05%		
18) Acenaphthene-d10	3.933	164	554140	4000.000	ng/ml	0.00
Standard Area 1 = 521676			Recovery	= 106.22%		
23) Phenanthrene-d10	4.765	188	1144617	4000.000	ng/ml	0.00
Standard Area 1 = 1047157			Recovery	= 109.31%		
33) Chrysene-d12	6.360	240	1092413	4000.000	ng/ml	-0.05
Standard Area 1 = 1073641			Recovery	= 101.75%		
38) Perylene-d12	7.608	264	1076653	4000.000	ng/ml	-0.06
Standard Area 1 = 1075366			Recovery	= 100.12%		
System Monitoring Compounds						
3) 2-Fluorophenol	1.722	112	88715	1262.429	ng/ml	0.03
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 63.12%		
4) Phenol-d6	2.112	99	82373	943.693	ng/ml	0.02
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 47.18%		
8) Nitrobenzene-d5	2.576	82	61758	772.647	ng/ml	0.01
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 77.26%		
14) 2-Fluorobiphenyl	3.554	172	180182	850.741	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 85.07%		
22) 2,4,6-Tribromophenol	4.374	330	44972	1413.505	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 70.68%		
32) 4-Terphenyl-d14	5.695	244	251085	793.469	ng/ml	-0.03
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 79.35%		
Target Compounds						
						Qvalue
5) Bis(2-chloroethyl)ether	2.162	93	127305	1678.641	ng/ml	94
7) Hexachloroethane	2.559	117	34233	1096.385	ng/ml	97
10) Naphthalene	2.972	128	363150	1414.763	ng/ml	100
11) Hexachlorobutadiene	3.043	225	48391	1004.999	ng/ml	100
12) 2-Methylnaphthalene	3.347	142	237398	1451.988	ng/ml	98
15) 2-Chloronaphthalene	3.616	162	266679	1497.942	ng/ml	93
17) Acenaphthylene	3.852	152	491135	1642.271	ng/ml	100
19) Acenaphthene	3.950	153	297902	1623.616	ng/ml	100
21) Fluorene	4.238	166	369700	1671.988	ng/ml	100
25) Hexachlorobenzene	4.555	284	115858	1435.780	ng/ml	96

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250627nRVT\
 Data File : 081607-2.D
 Acq On : 27 Jun 2025 05:02 pm
 Operator : sv119:dv
 Sample : WG2081607-2,32,,DV
 Misc : WG2084498,WG2081607,ical22426
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 27 18:08:01 2025
 Quant Method : I:\8270sim\sv119\250627nRVT\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jun 27 16:24:54 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\250627nRVT\ccv0627n.D
 Sub List : DEFAULT - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26)	Pentachlorophenol	4.663	266	61904	1761.691	ng/ml	100
27)	Phenanthrene	4.781	178	591830	1709.416	ng/ml	100
28)	Anthracene	4.806	178	594690	1700.943	ng/ml	99
29)	Fluoranthene	5.467	202	766414	1680.633	ng/ml	99
30)	Pyrene	5.602	202	778748	1622.732	ng/ml	100
34)	Benzo[a]anthracene	6.352	228	733904	1981.250	ng/ml	100
36)	Chrysene	6.377	228	690335	1938.685	ng/ml	100
39)	Benzo[b]fluoranthene	7.225	252	661056	2222.190	ng/ml	98
40)	Benzo[k]fluoranthene	7.251	252	716754	2083.287	ng/ml	98
41)	Benzo[a]pyrene	7.545	252	578839	2048.055	ng/ml	100
42)	Indeno[1,2,3-cd]pyrene	8.865	276	541505	2033.535	ng/ml	97
43)	Dibenzo[a,h]anthracene	8.896	278	537847M4	2017.216	ng/ml	
44)	Benzo[g,h,i]perylene	9.216	276	565948	2155.919	ng/ml	96

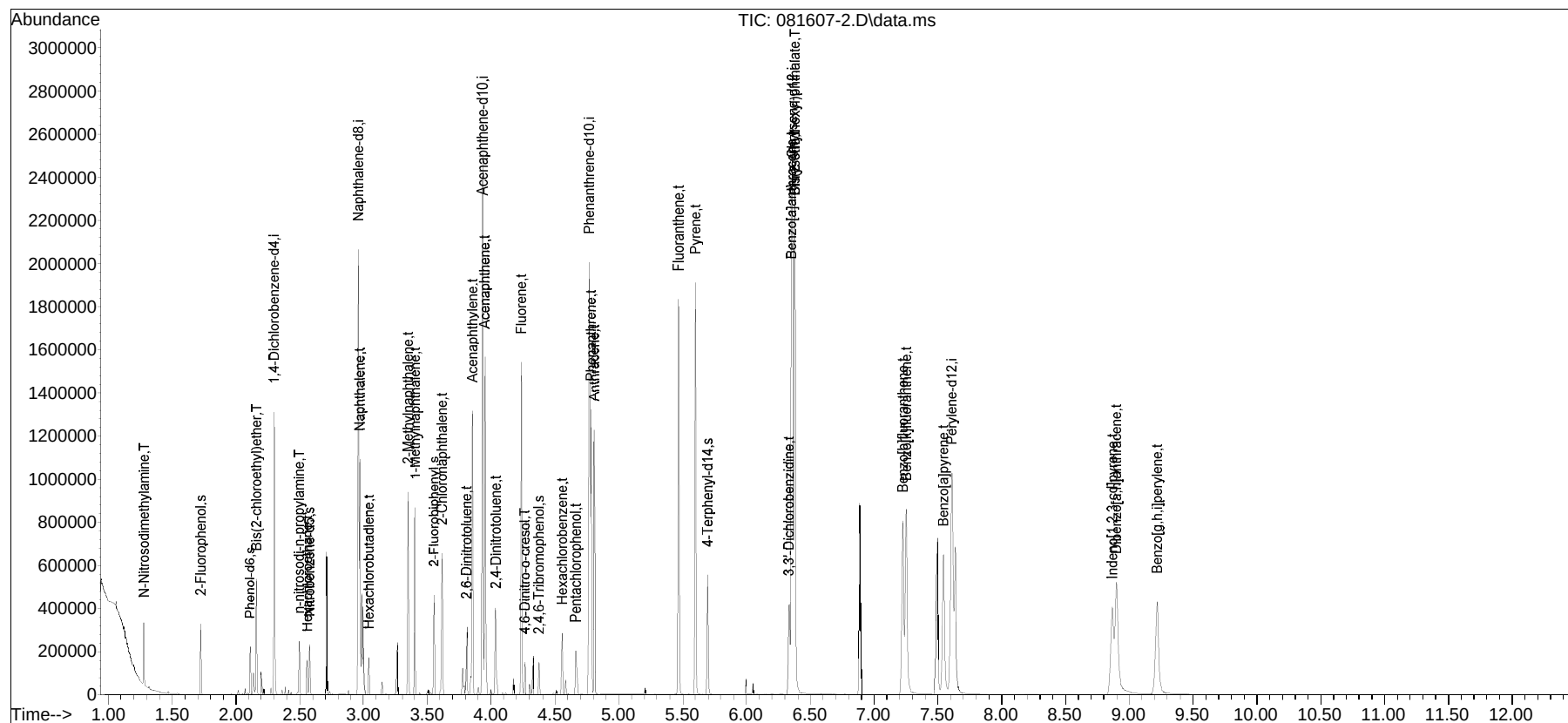
(#) = qualifier out of range (m) = manual integration (+) = signals summed

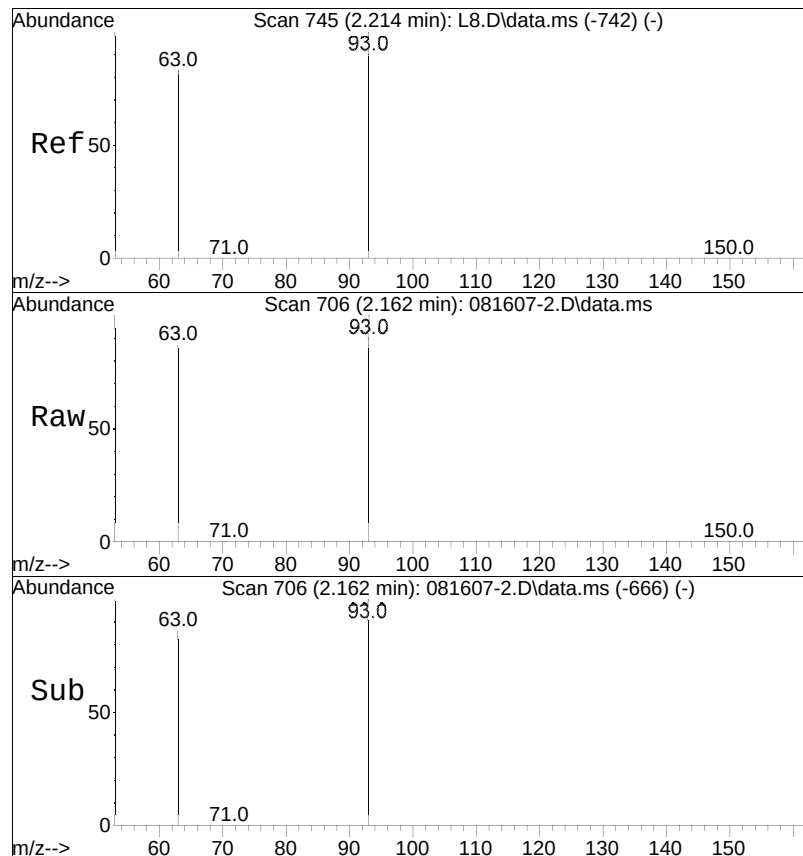
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250627nRVT\
 Data File : 081607-2.D
 Acq On : 27 Jun 2025 05:02 pm
 Operator : sv119:dv
 Sample : WG2081607-2,32,,DV
 Misc : WG2084498,WG2081607,ical22426
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 27 18:08:01 2025
 Quant Method : I:\8270sim\sv119\250627nRVT\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jun 27 16:24:54 2025
 Response via : Initial Calibration

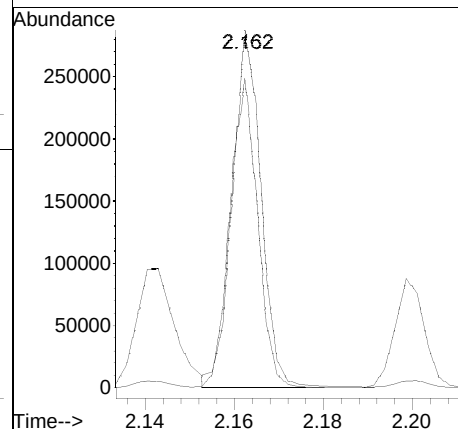
Sub List : DEFAULT - All compounds listedT\ccv0627n.D•

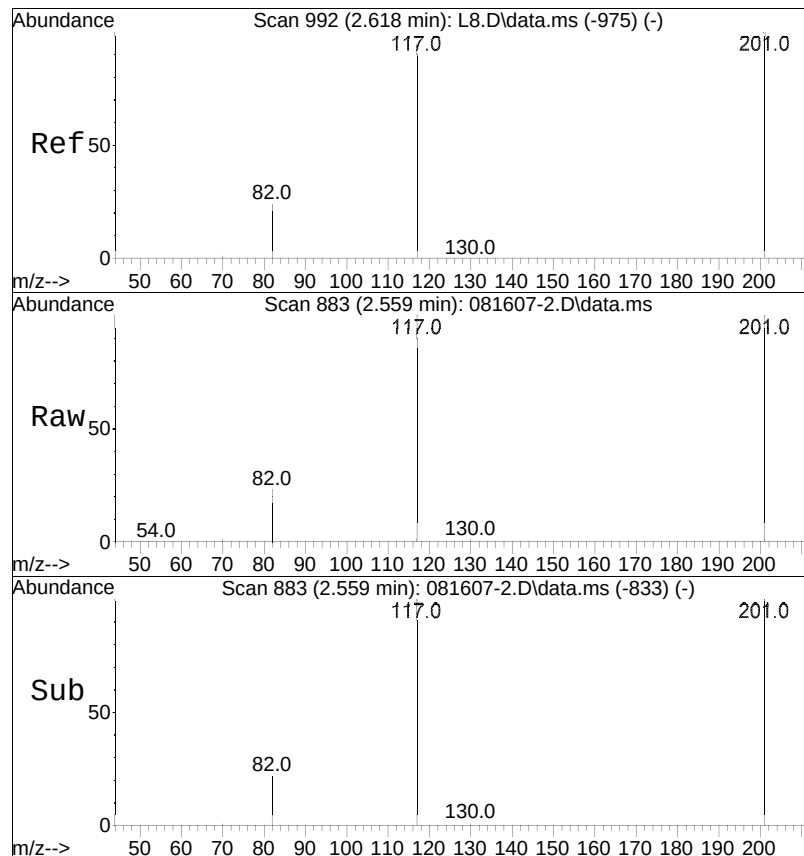




#5
 Bis(2-chloroethyl)ether
 Concen: 1678.64 ng/ml
 RT: 2.162 min Scan# 706
 Delta R.T. 0.017 min
 Lab File: 081607-2.D
 Acq: 27 Jun 2025 05:02 pm

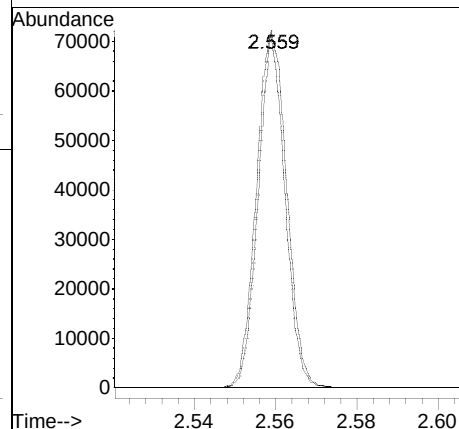
Tgt Ion	Ratio	Lower	Upper
93	100		
63	83.6	62.9	94.3

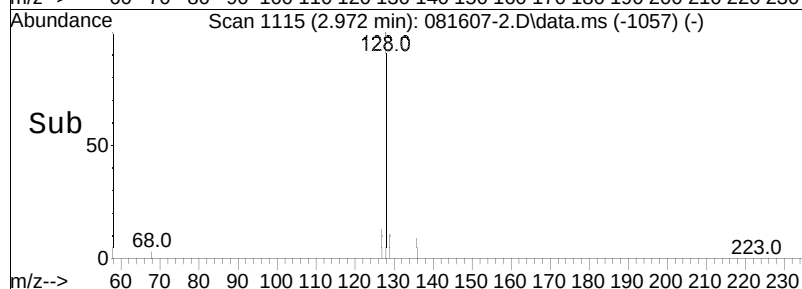
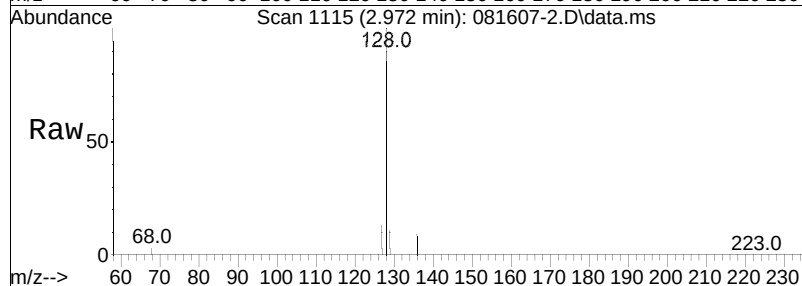
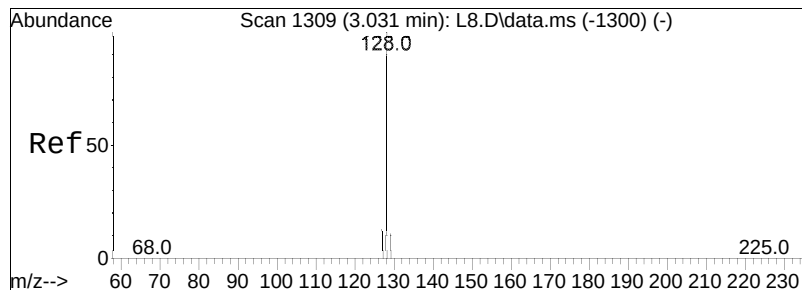




#7
 Hexachloroethane
 Concen: 1096.38 ng/ml
 RT: 2.559 min Scan# 883
 Delta R.T. 0.016 min
 Lab File: 081607-2.D
 Acq: 27 Jun 2025 05:02 pm

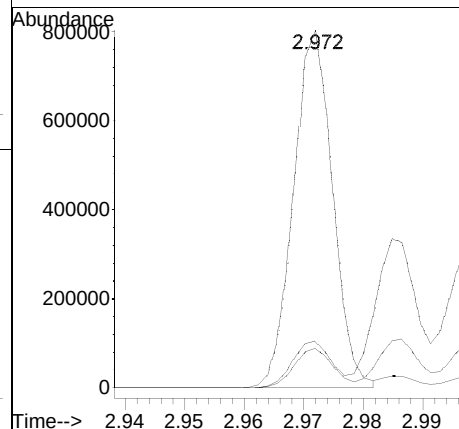
Tgt Ion	Ratio	Lower	Upper
117	100		
201	100.4	82.9	124.3

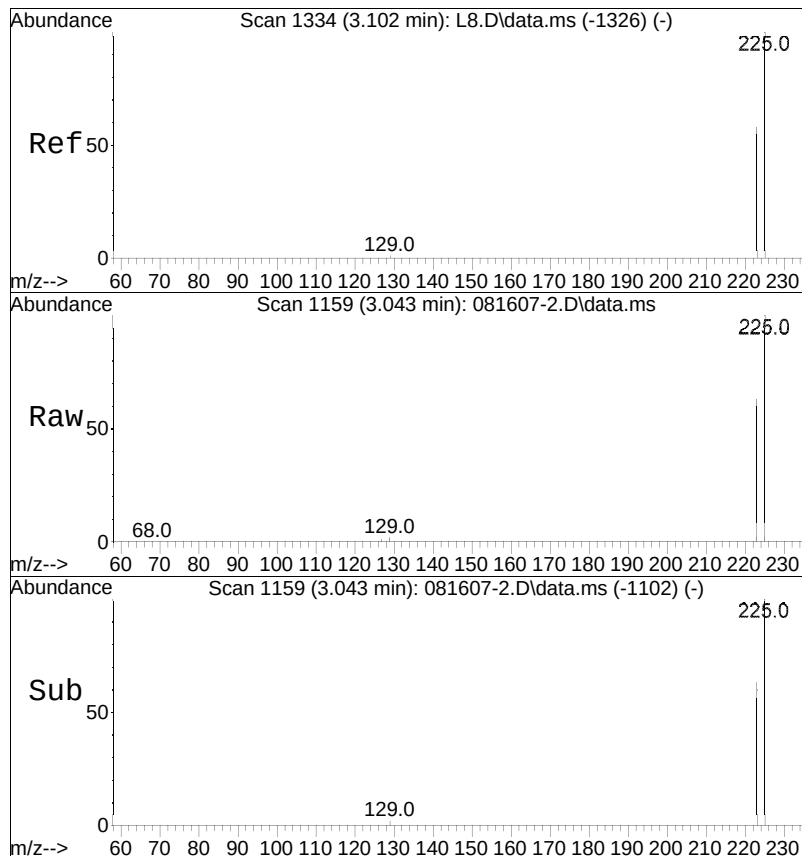




#10
Naphthalene
Concen: 1414.76 ng/ml
RT: 2.972 min Scan# 1115
Delta R.T. 0.013 min
Lab File: 081607-2.D
Acq: 27 Jun 2025 05:02 pm

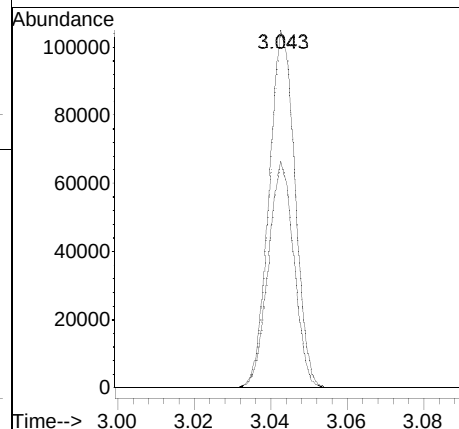
Tgt Ion	Ratio	Resp	Lower	Upper
128	100	363150		
129	11.1		8.8	13.2
127	13.1		10.6	15.8

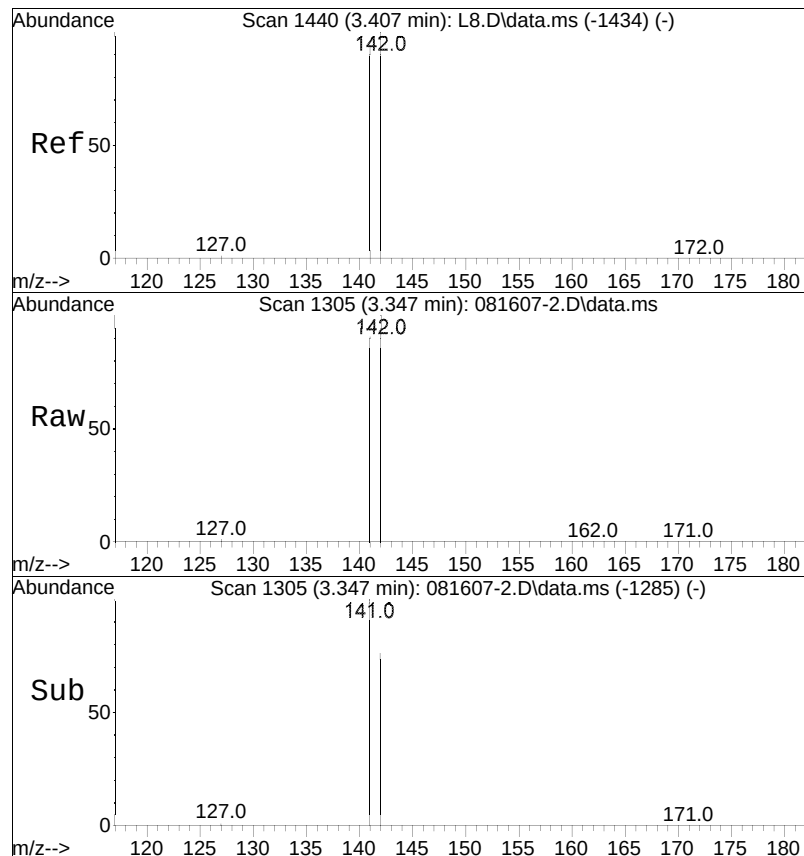




#11
 Hexachlorobutadiene
 Concen: 1005.00 ng/ml
 RT: 3.043 min Scan# 1159
 Delta R.T. 0.012 min
 Lab File: 081607-2.D
 Acq: 27 Jun 2025 05:02 pm

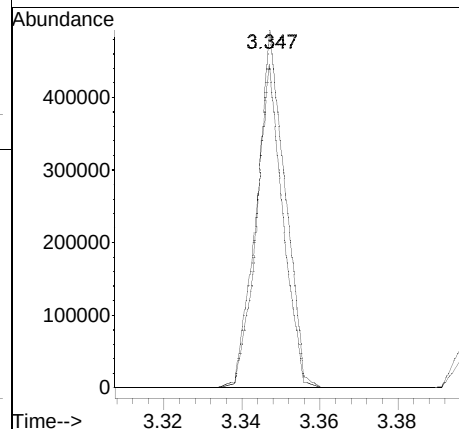
Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.8	50.2	75.4

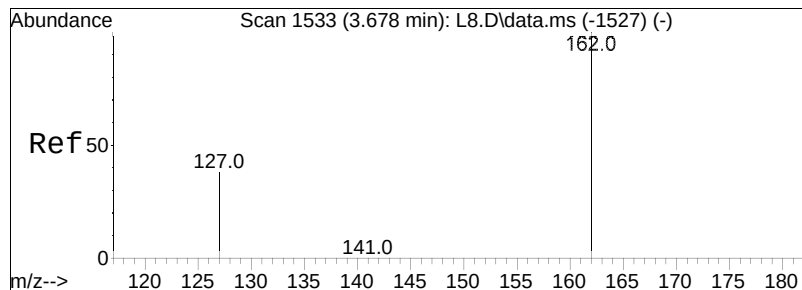




#12
 2-Methylnaphthalene
 Concen: 1451.99 ng/ml
 RT: 3.347 min Scan# 1305
 Delta R.T. 0.009 min
 Lab File: 081607-2.D
 Acq: 27 Jun 2025 05:02 pm

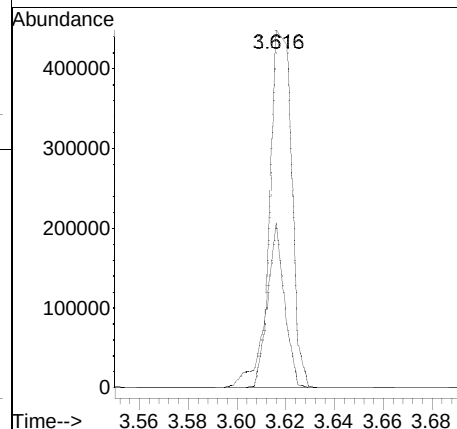
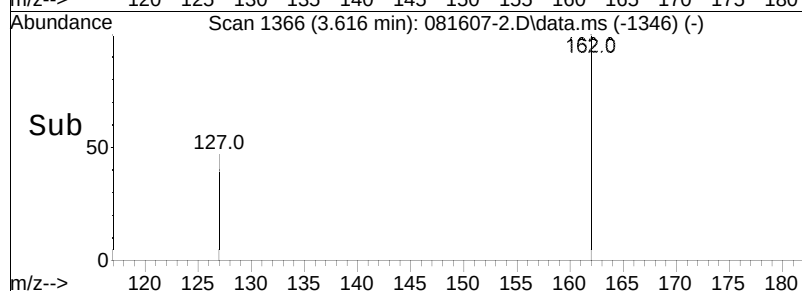
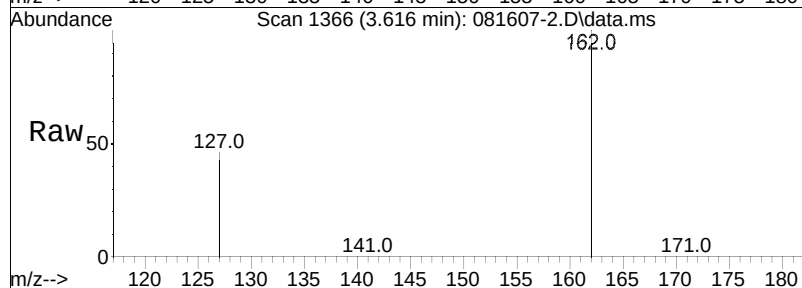
Tgt Ion	Ratio	Lower	Upper
142	100		
141	90.0	73.6	110.4

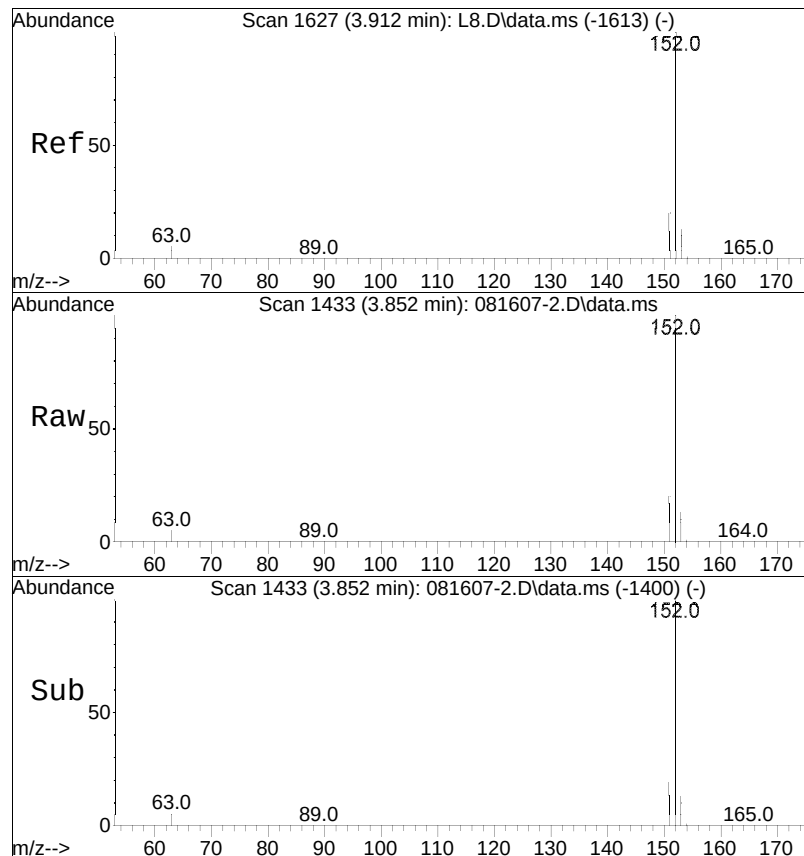




#15
 2-Chloronaphthalene
 Concen: 1497.94 ng/ml
 RT: 3.616 min Scan# 1366
 Delta R.T. 0.009 min
 Lab File: 081607-2.D
 Acq: 27 Jun 2025 05:02 pm

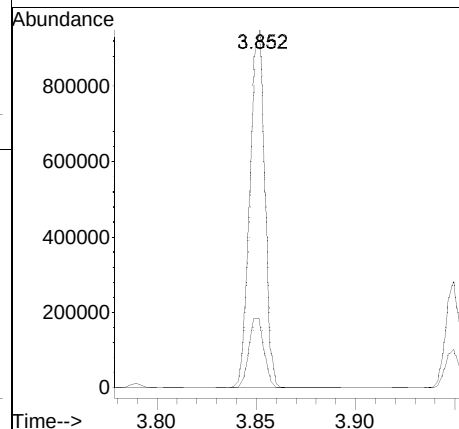
Tgt Ion	Ratio	Lower	Upper
162	100		
127	41.4	29.8	44.8

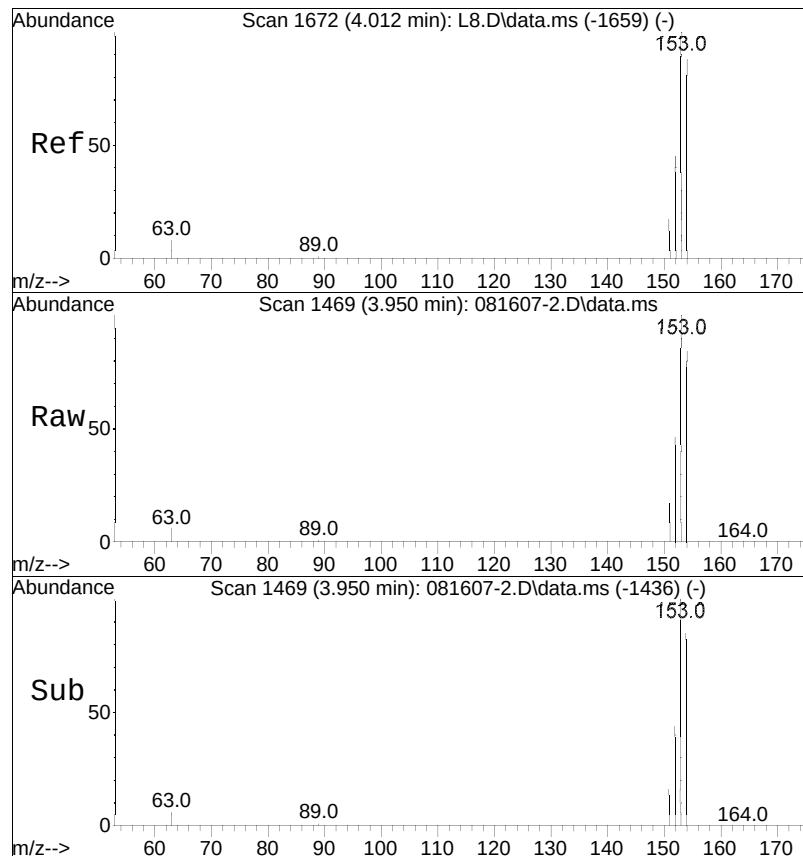




#17
 Acenaphthylene
 Concen: 1642.27 ng/ml
 RT: 3.852 min Scan# 1433
 Delta R.T. 0.009 min
 Lab File: 081607-2.D
 Acq: 27 Jun 2025 05:02 pm

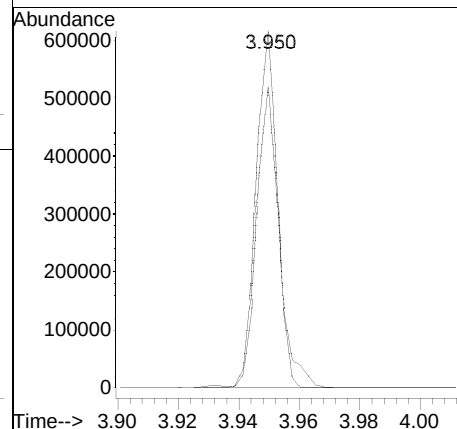
Tgt Ion:	152	Resp:	491135
Ion Ratio	Lower	Upper	
152	100		
151	20.0	16.2	24.2

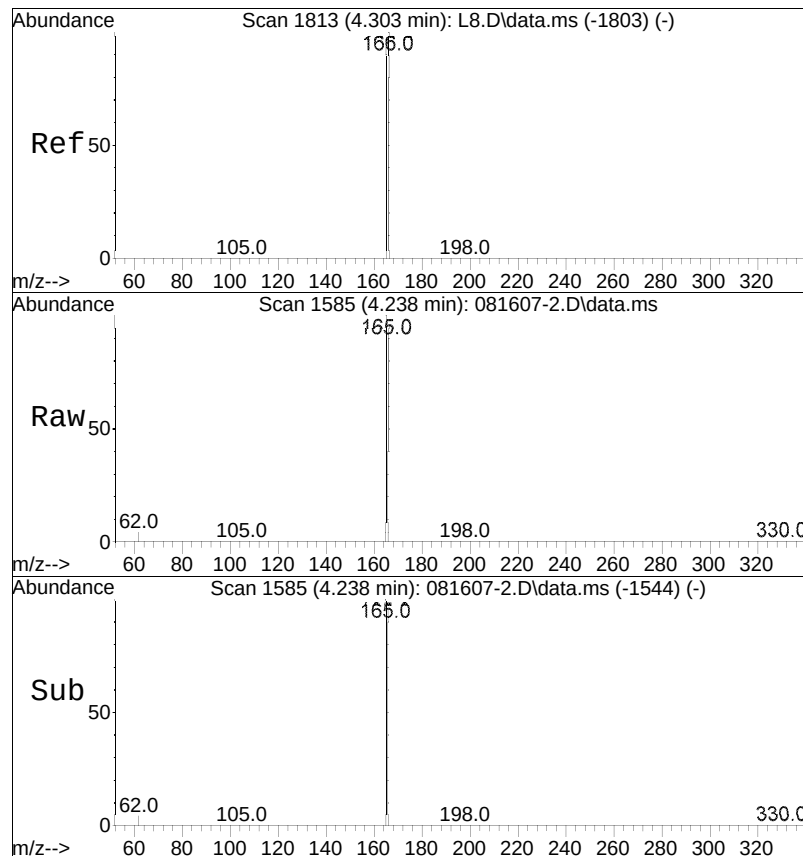




#19
 Acenaphthene
 Concen: 1623.62 ng/ml
 RT: 3.950 min Scan# 1469
 Delta R.T. 0.009 min
 Lab File: 081607-2.D
 Acq: 27 Jun 2025 05:02 pm

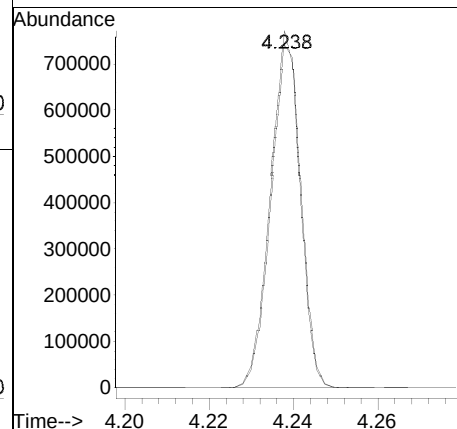
Tgt Ion	Ratio	Lower	Upper
153	100		
154	89.9	72.0	108.0

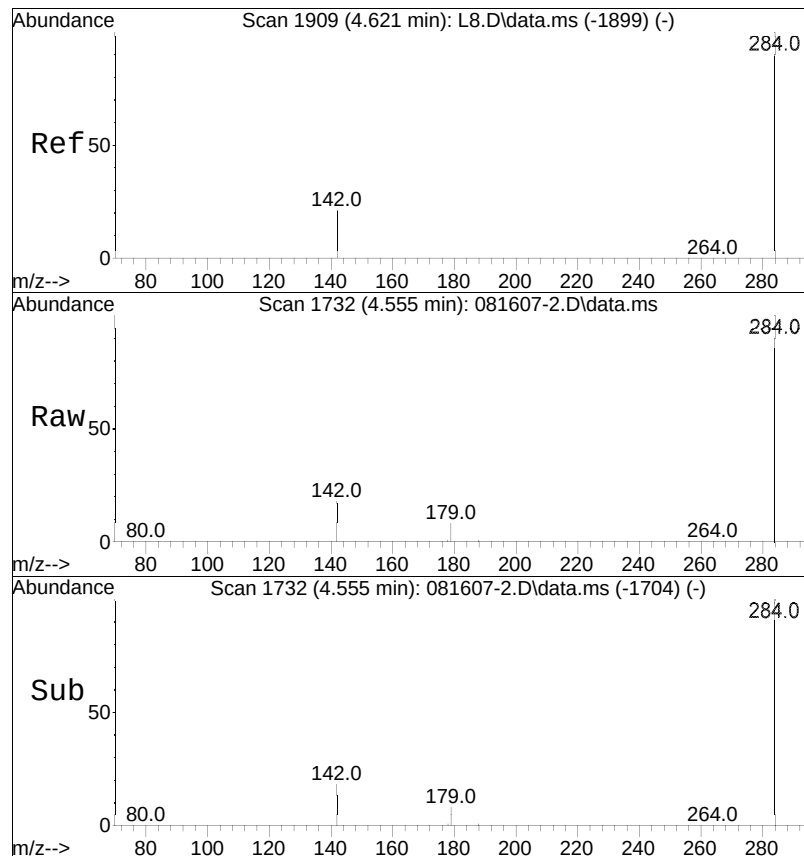




#21
 Fluorene
 Concen: 1671.99 ng/ml
 RT: 4.238 min Scan# 1585
 Delta R.T. 0.006 min
 Lab File: 081607-2.D
 Acq: 27 Jun 2025 05:02 pm

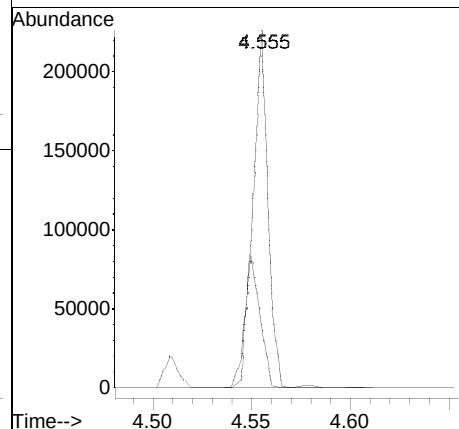
Tgt Ion	Ratio	Lower	Upper
166	100		
165	101.7	81.5	122.3

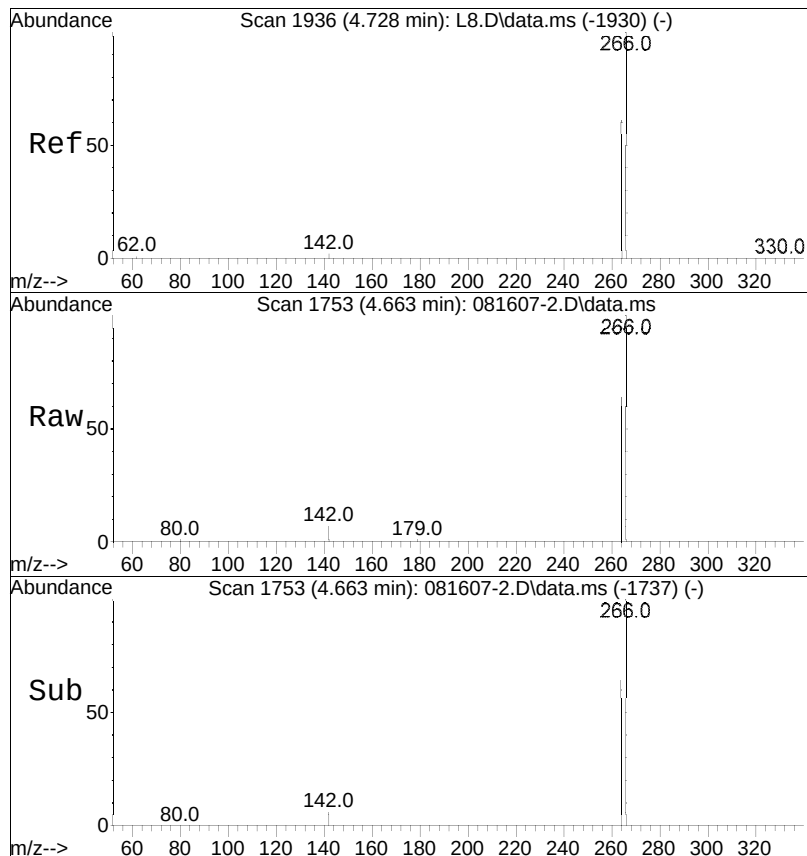




#25
 Hexachlorobenzene
 Concen: 1435.78 ng/ml
 RT: 4.555 min Scan# 1732
 Delta R.T. 0.006 min
 Lab File: 081607-2.D
 Acq: 27 Jun 2025 05:02 pm

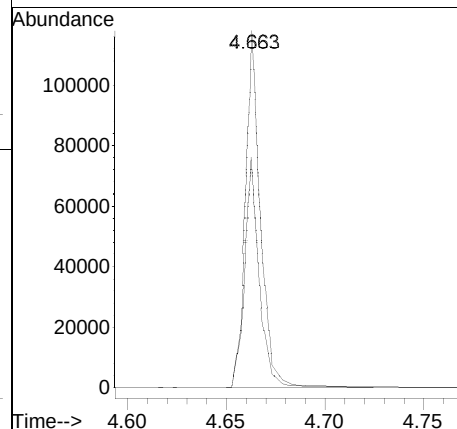
Tgt Ion	Ratio	Lower	Upper
284	100		
142	38.3	28.8	43.2

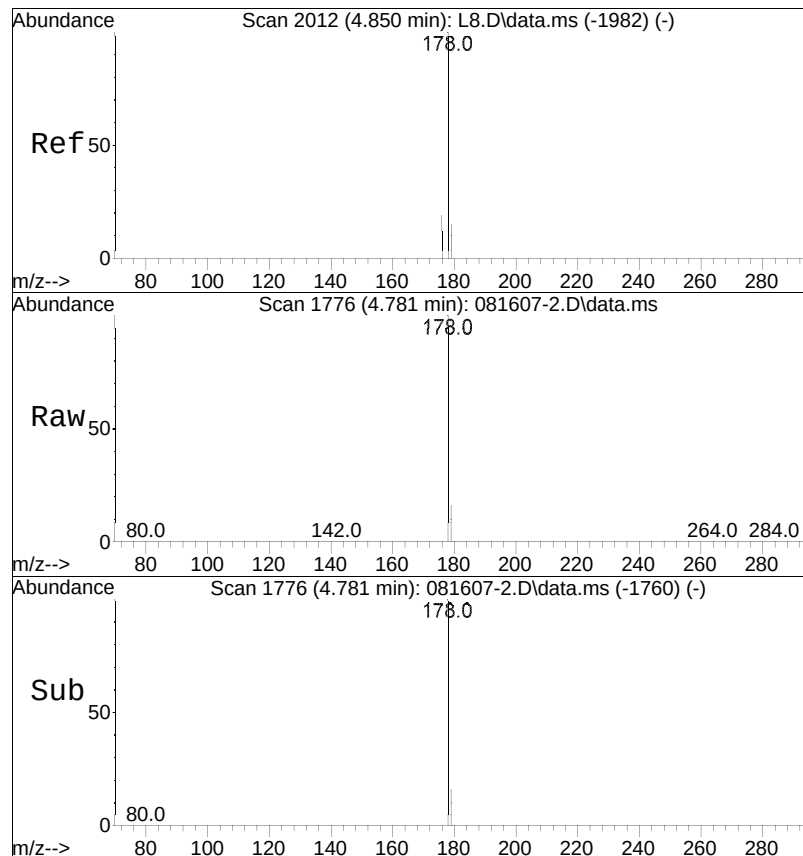




#26
 Pentachlorophenol
 Concen: 1761.69 ng/ml
 RT: 4.663 min Scan# 1753
 Delta R.T. 0.000 min
 Lab File: 081607-2.D
 Acq: 27 Jun 2025 05:02 pm

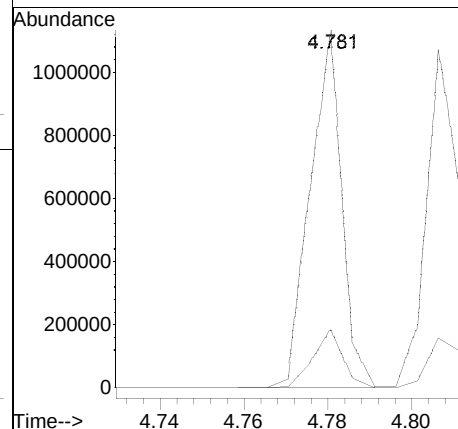
Tgt Ion	Ratio	Lower	Upper
266	100		
264	63.4	50.6	76.0

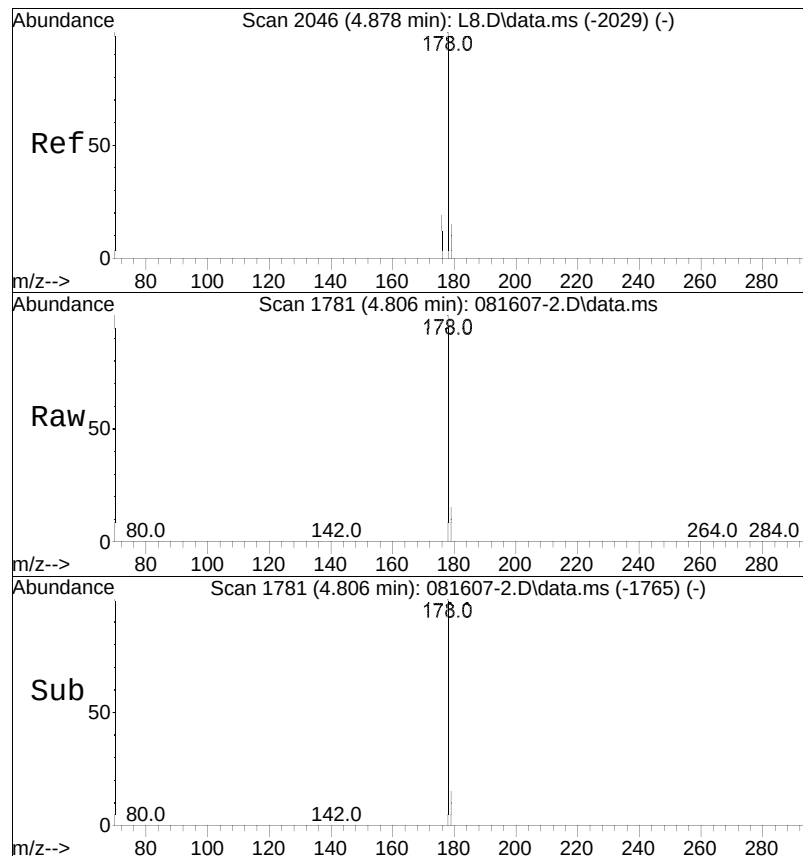




#27
 Phenanthrene
 Concen: 1709.42 ng/ml
 RT: 4.781 min Scan# 1776
 Delta R.T. 0.000 min
 Lab File: 081607-2.D
 Acq: 27 Jun 2025 05:02 pm

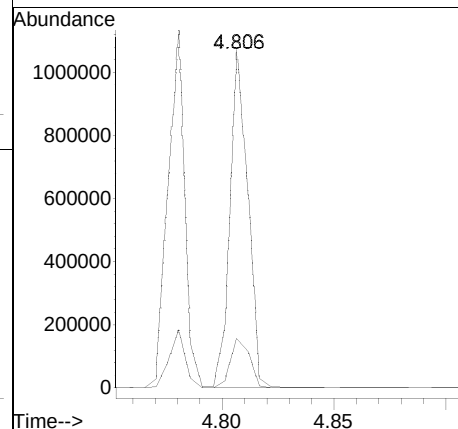
Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.5	12.4	18.6

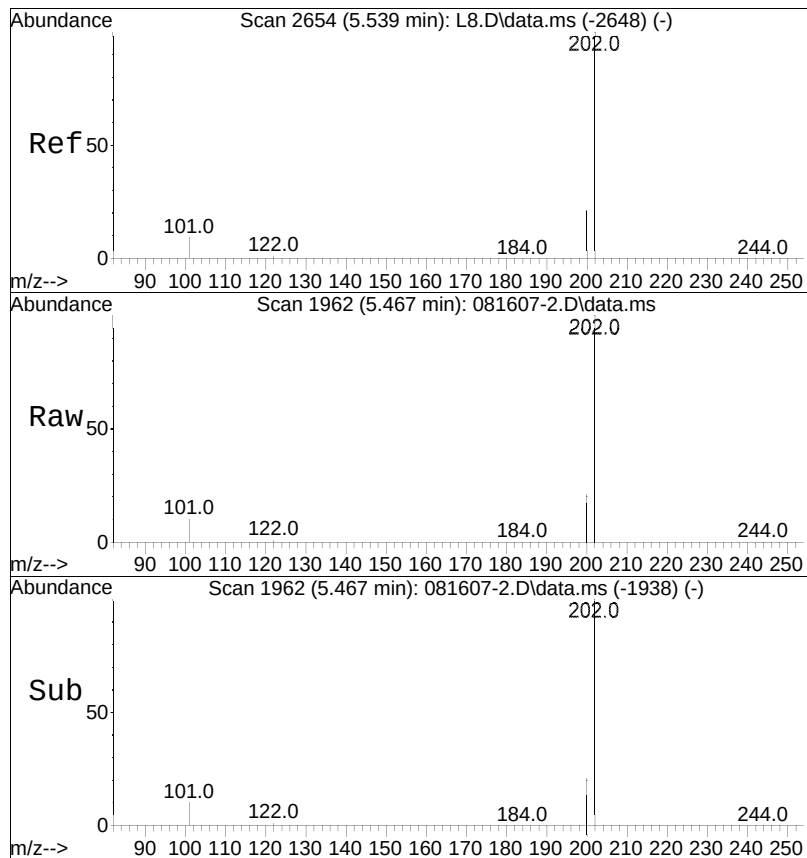




#28
 Anthracene
 Concen: 1700.94 ng/ml
 RT: 4.806 min Scan# 1781
 Delta R.T. 0.000 min
 Lab File: 081607-2.D
 Acq: 27 Jun 2025 05:02 pm

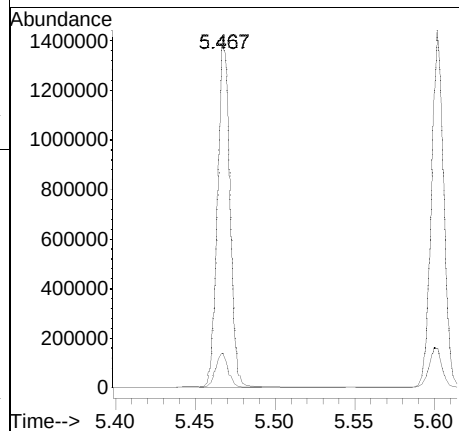
Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.8	12.2	18.2

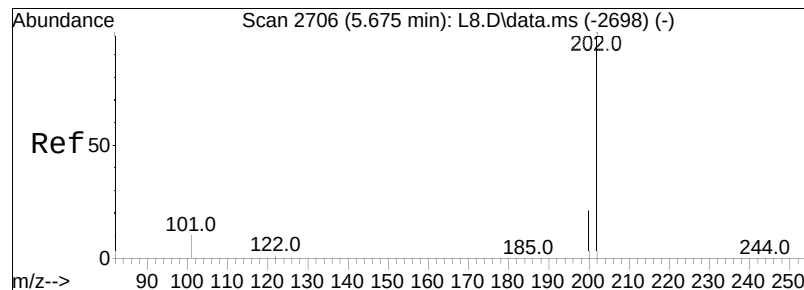




#29
 Fluoranthene
 Concen: 1680.63 ng/ml
 RT: 5.467 min Scan# 1962
 Delta R.T. -0.022 min
 Lab File: 081607-2.D
 Acq: 27 Jun 2025 05:02 pm

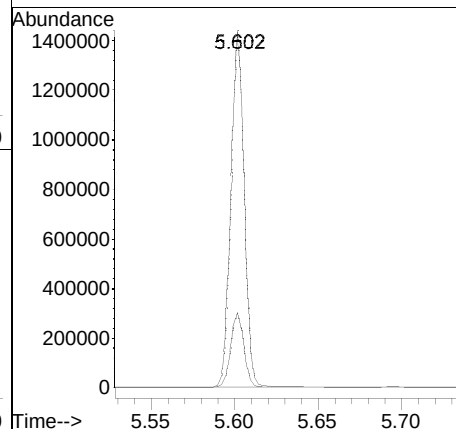
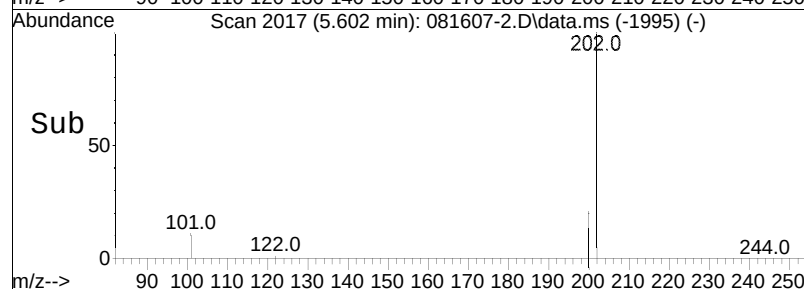
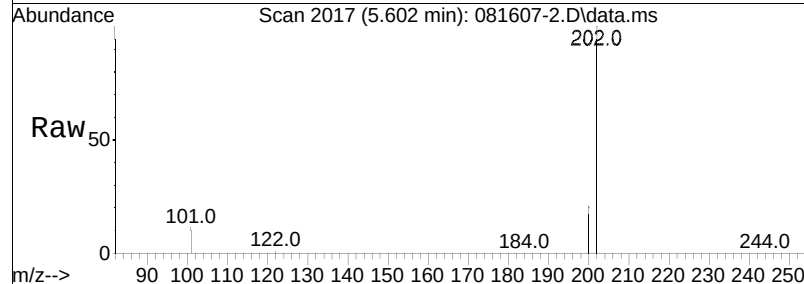
Tgt	Ion	Ratio	Lower	Upper
202	100			
101	9.9	7.5	11.3	

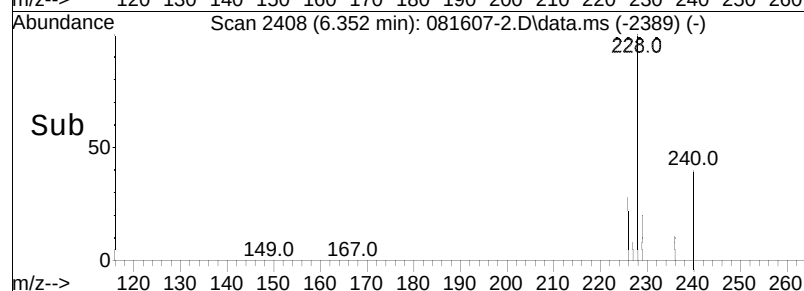
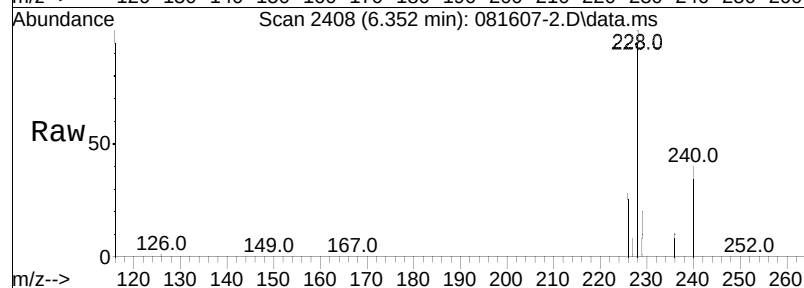
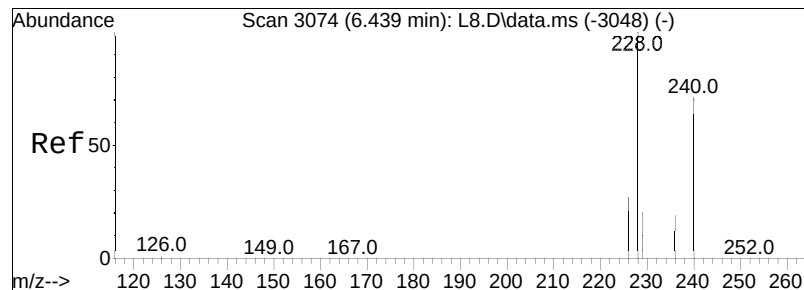




#30
 Pyrene
 Concen: 1622.73 ng/ml
 RT: 5.602 min Scan# 2017
 Delta R.T. -0.027 min
 Lab File: 081607-2.D
 Acq: 27 Jun 2025 05:02 pm

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.0	25.4





#34

Benzo[a]anthracene

Concen: 1981.25 ng/ml

RT: 6.352 min Scan# 2408

Delta R.T. -0.053 min

Lab File: 081607-2.D

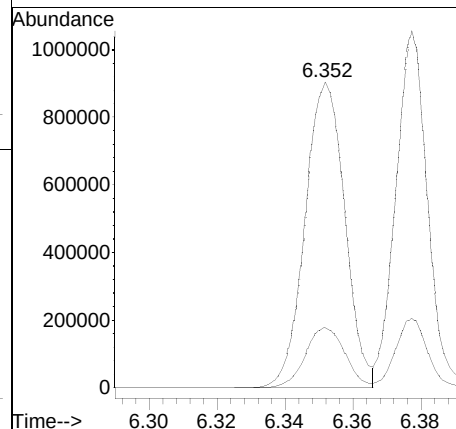
Acq: 27 Jun 2025 05:02 pm

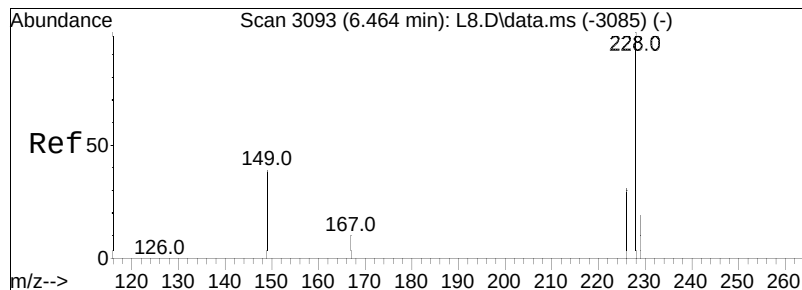
Tgt Ion: 228 Resp: 733904

Ion Ratio Lower Upper

228 100

229 19.7 15.8 23.6





#36

Chrysene

Concen: 1938.68 ng/ml

RT: 6.377 min Scan# 2426

Delta R.T. -0.053 min

Lab File: 081607-2.D

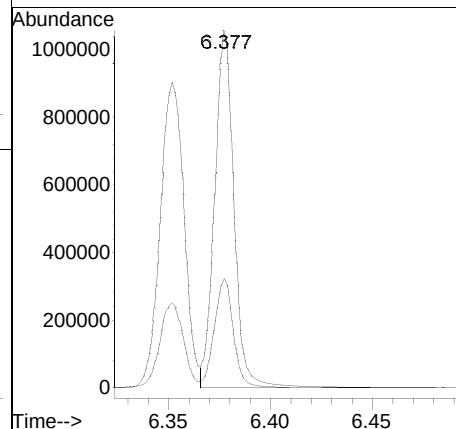
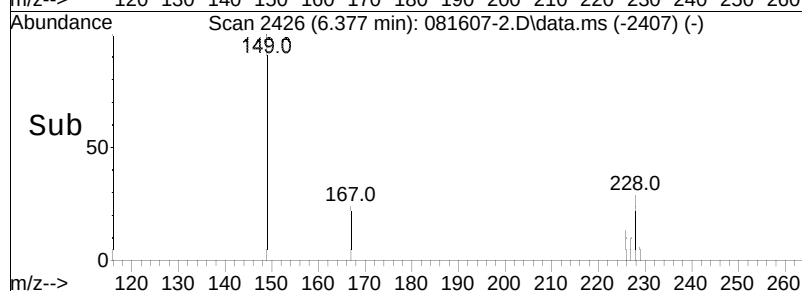
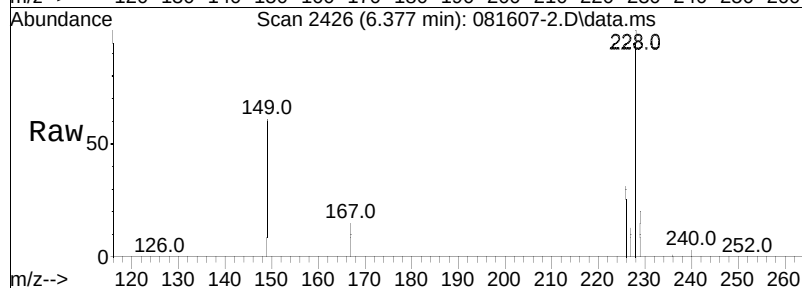
Acq: 27 Jun 2025 05:02 pm

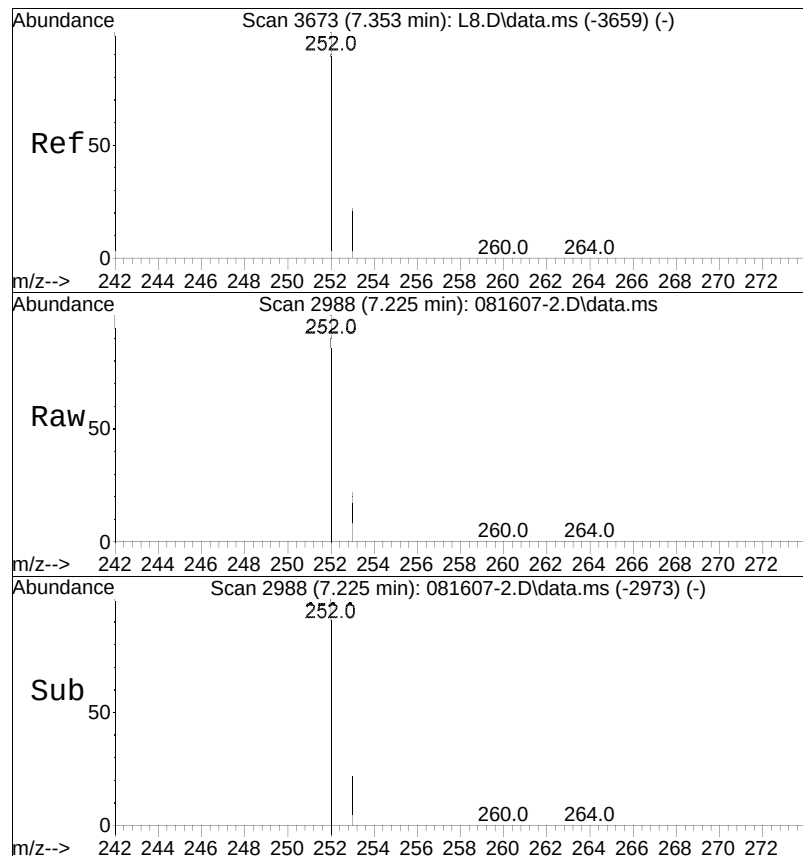
Tgt Ion: 228 Resp: 690335

Ion Ratio Lower Upper

228 100

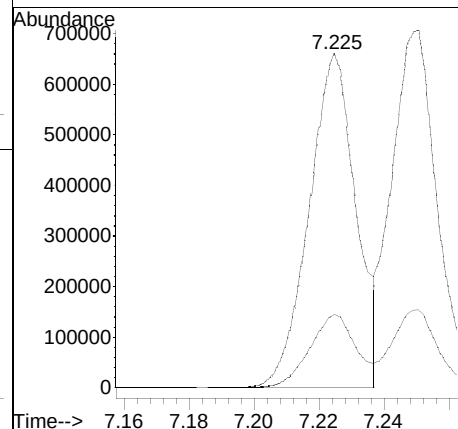
226 30.7 24.6 37.0

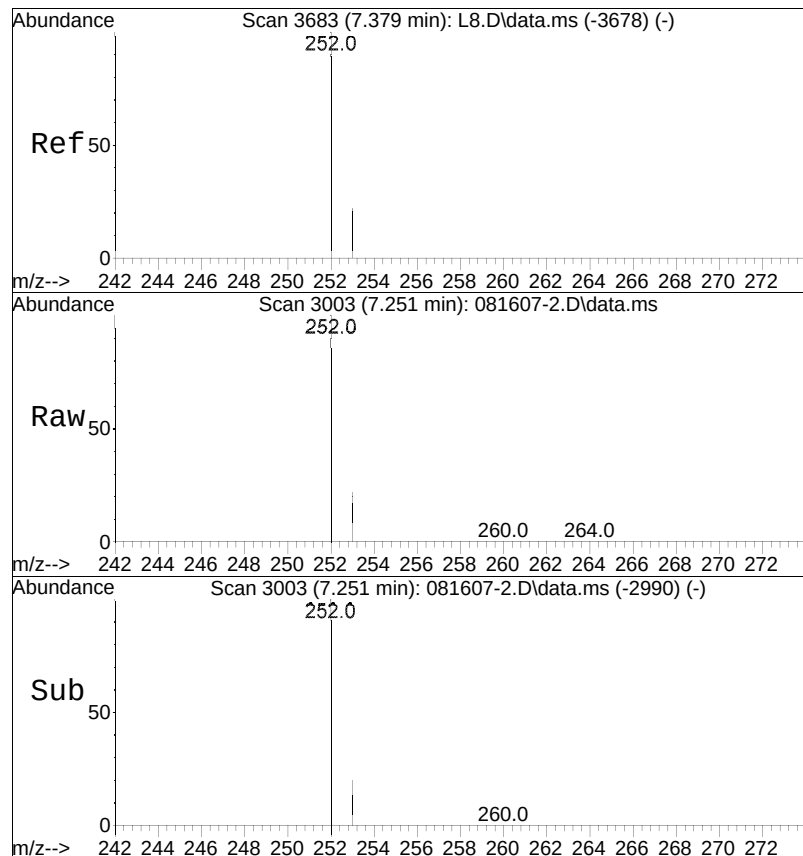




#39
 Benzo[b]fluoranthene
 Concen: 2222.19 ng/ml
 RT: 7.225 min Scan# 2988
 Delta R.T. -0.054 min
 Lab File: 081607-2.D
 Acq: 27 Jun 2025 05:02 pm

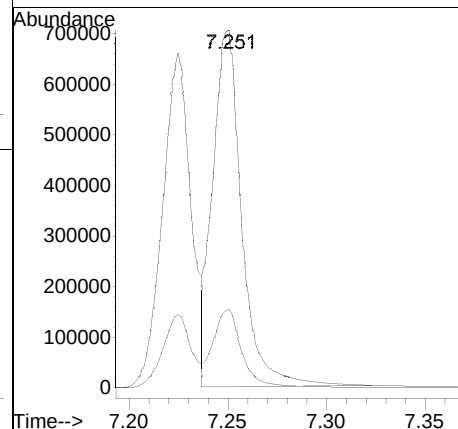
Tgt Ion:	252	Resp:	661056
Ion Ratio	Lower	Upper	
252	100		
253	21.9	18.1	27.1

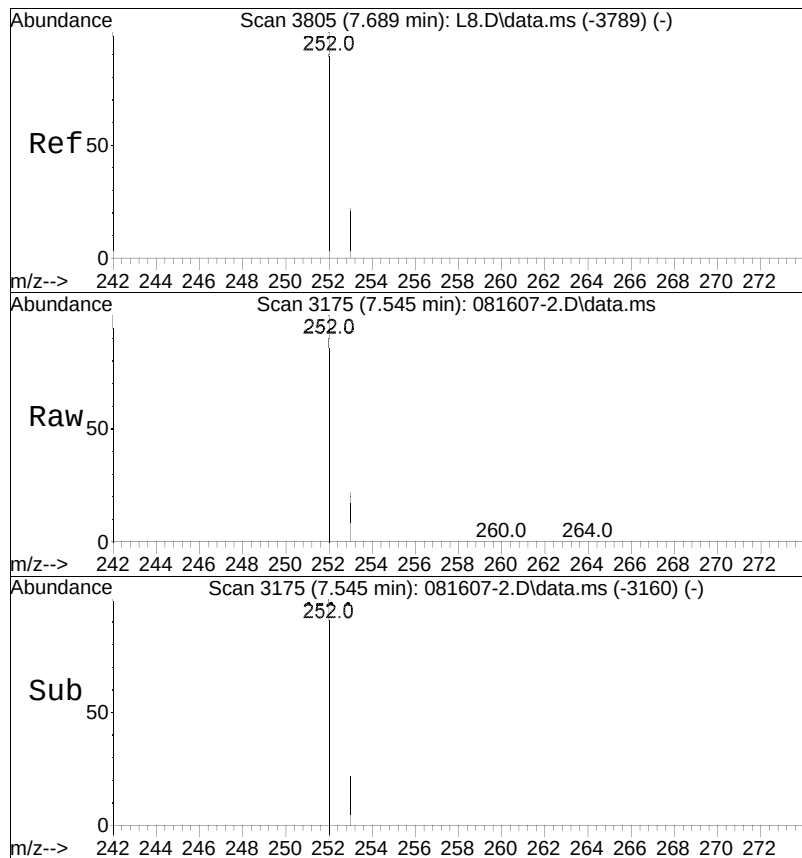




#40
 Benzo[k]fluoranthene
 Concen: 2083.29 ng/ml
 RT: 7.251 min Scan# 3003
 Delta R.T. -0.058 min
 Lab File: 081607-2.D
 Acq: 27 Jun 2025 05:02 pm

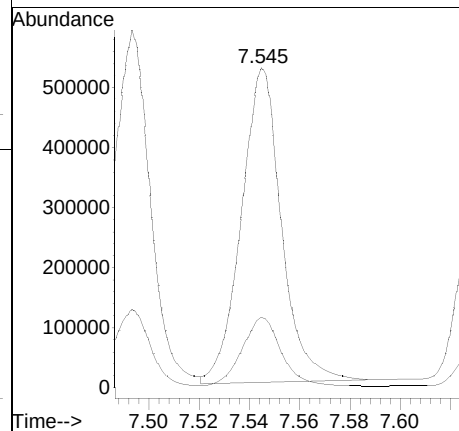
Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.0	25.4

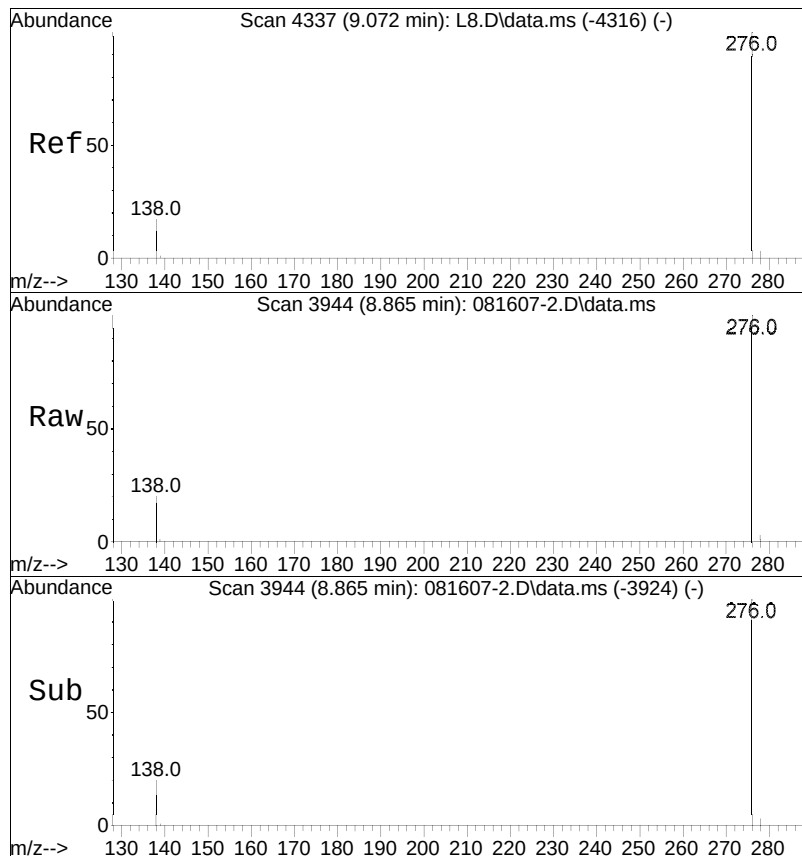




#41
 Benzo[a]pyrene
 Concen: 2048.06 ng/ml
 RT: 7.545 min Scan# 3175
 Delta R.T. -0.054 min
 Lab File: 081607-2.D
 Acq: 27 Jun 2025 05:02 pm

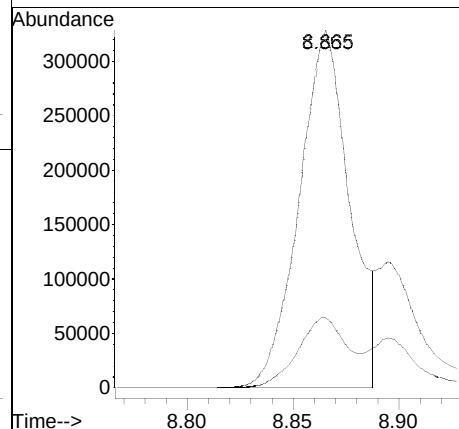
Tgt	Ion	Ratio	Lower	Upper
252	100			
253	21.9	17.4	26.0	

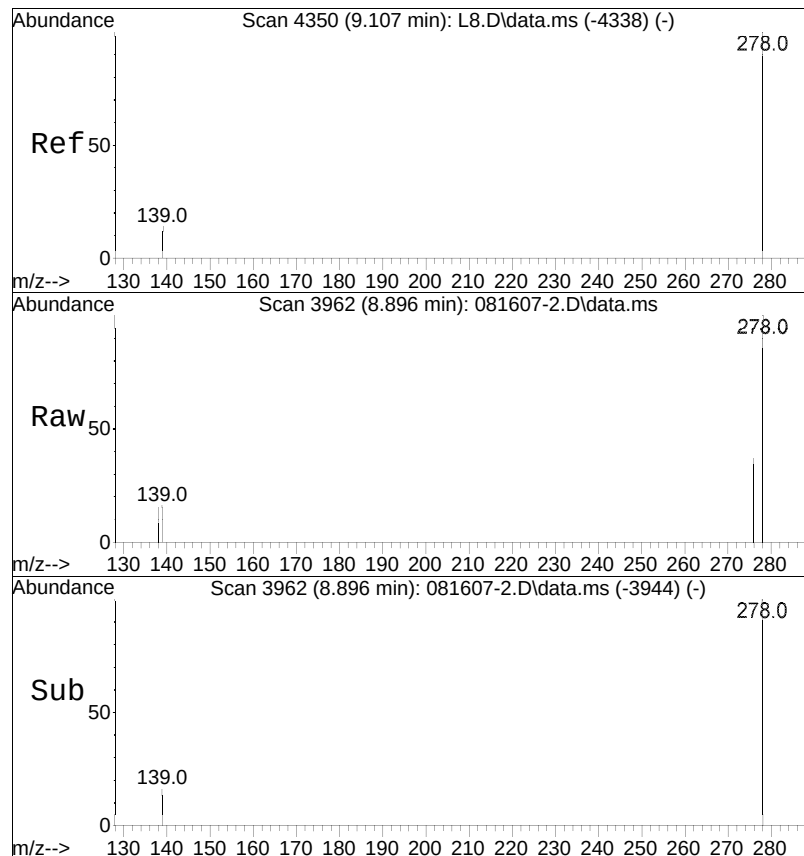




#42
 Indeno[1,2,3-cd]pyrene
 Concen: 2033.54 ng/ml
 RT: 8.865 min Scan# 3944
 Delta R.T. -0.045 min
 Lab File: 081607-2.D
 Acq: 27 Jun 2025 05:02 pm

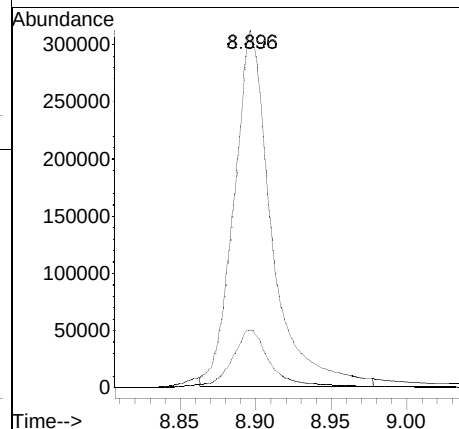
Tgt	Ion	Ratio	Lower	Upper
276	100			
138	19.5	14.4	21.6	

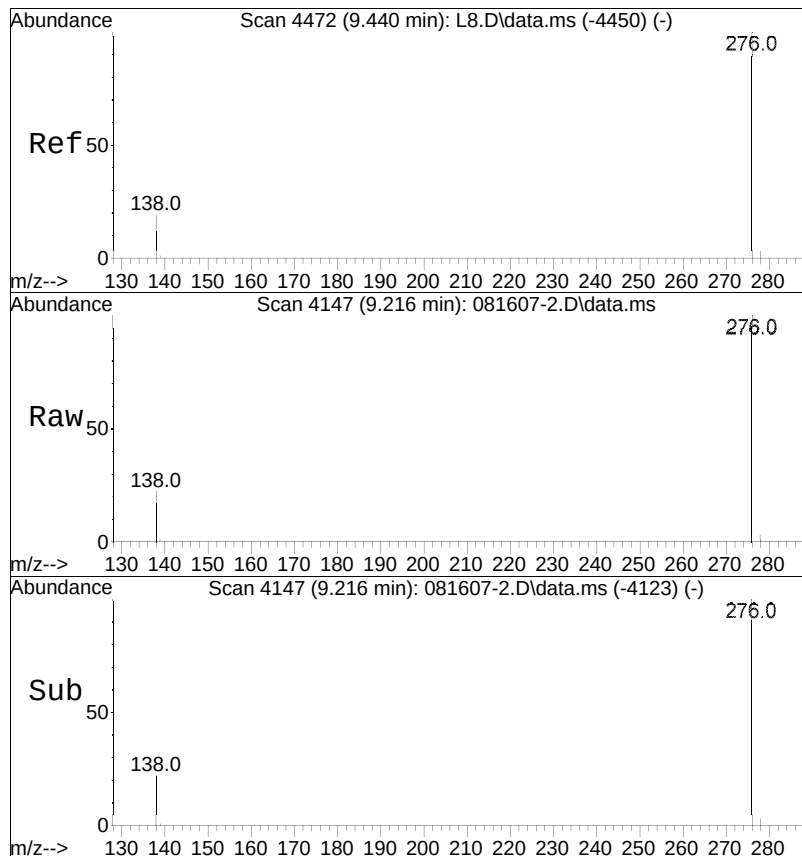




#43
 Dibenzo[a,h]anthracene
 Concen: 2017.22 ng/ml M4
 RT: 8.896 min Scan# 3962
 Delta R.T. -0.048 min
 Lab File: 081607-2.D
 Acq: 27 Jun 2025 05:02 pm

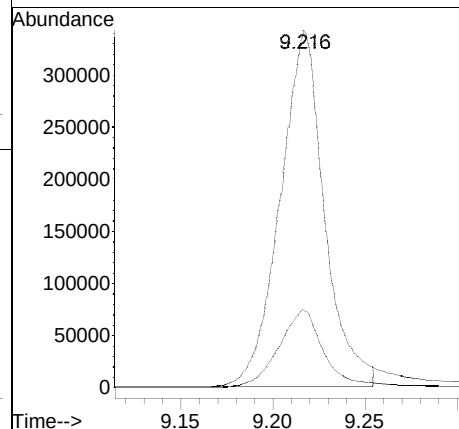
Tgt Ion	Ratio	Lower	Upper
278	100		
139	16.6	12.1	18.1





#44
 Benzo[g,h,i]perylene
 Concen: 2155.92 ng/ml
 RT: 9.216 min Scan# 4147
 Delta R.T. -0.038 min
 Lab File: 081607-2.D
 Acq: 27 Jun 2025 05:02 pm

Tgt Ion	Ratio	Lower	Upper
276	100		
138	21.9	16.0	24.0

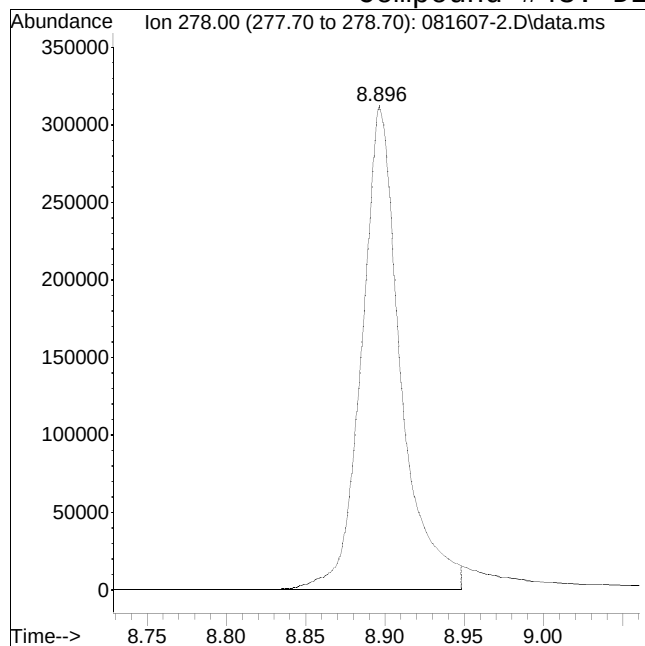


Manual Integration Report

Data Path : I:\8270SIM\sv119\250627nRV01
Data File : 081607-2.D
Date Inj'd : 6/27/2025 5:02 pm
Sample : WG2081607-2,32,,DV

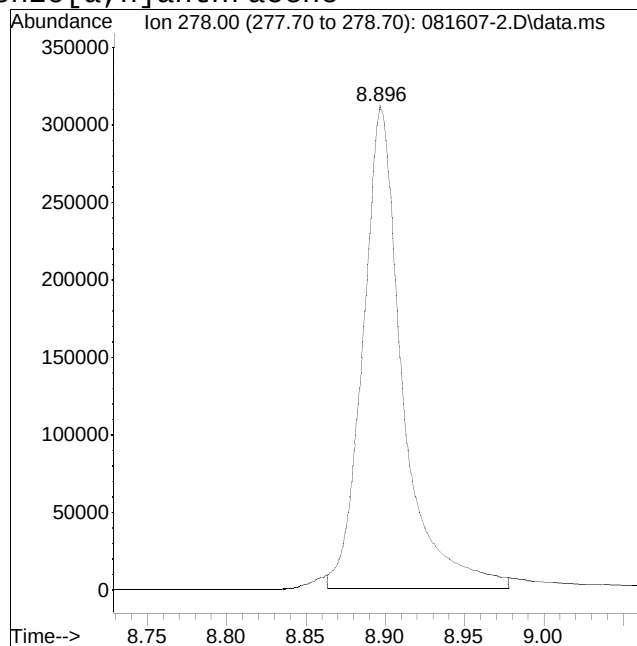
Method : SIM-RVT_250625_sv119.M
Operator : sv119:dv
Instrument : SV119
Quant Date : 6/27/2025 5:16 pm

Compound #43: Dibenzo[a,h]anthracene



Original Peak Response = 534096

M4 = Poor automated baseline construction.



Manual Peak Response = 537847 M4

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250627nRVT\
 Data File : 081607-3.D
 Acq On : 27 Jun 2025 05:19 pm
 Operator : sv119:dv
 Sample : WG2081607-3,32,,DV
 Misc : WG2084498,WG2081607,ical22426
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 27 18:08:38 2025
 Quant Method : I:\8270sim\sv119\250627nRVT\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jun 27 16:24:54 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\250627nRVT\ccv0627n.D
 Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.302	152	245736	4000.000	ng/ml	0.02
Standard Area 1 = 237452			Recovery	= 103.49%		
9) Naphthalene-d8	2.962	136	989071	4000.000	ng/ml	0.01
Standard Area 1 = 908349			Recovery	= 108.89%		
18) Acenaphthene-d10	3.933	164	571748	4000.000	ng/ml	0.00
Standard Area 1 = 521676			Recovery	= 109.60%		
23) Phenanthrene-d10	4.765	188	1200241	4000.000	ng/ml	0.00
Standard Area 1 = 1047157			Recovery	= 114.62%		
33) Chrysene-d12	6.354	240	1114915	4000.000	ng/ml	-0.06
Standard Area 1 = 1073641			Recovery	= 103.84%		
38) Perylene-d12	7.603	264	1128765	4000.000	ng/ml	-0.06
Standard Area 1 = 1075366			Recovery	= 104.97%		
System Monitoring Compounds						
3) 2-Fluorophenol	1.721	112	76631	1079.156	ng/ml	0.03
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 53.96%		
4) Phenol-d6	2.111	99	72214	818.723	ng/ml	0.02
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 40.94%		
8) Nitrobenzene-d5	2.578	82	55748	690.219	ng/ml	0.02
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 69.02%		
14) 2-Fluorobiphenyl	3.554	172	162564	733.476	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 73.35%		
22) 2,4,6-Tribromophenol	4.375	330	39586	1205.900	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 60.30%		
32) 4-Terphenyl-d14	5.690	244	227590	685.890	ng/ml	-0.04
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 68.59%		
Target Compounds						
						Qvalue
5) Bis(2-chloroethyl)ether	2.162	93	115510	1507.307	ng/ml	94
7) Hexachloroethane	2.559	117	31613	1001.967	ng/ml	97
10) Naphthalene	2.972	128	335399	1248.635	ng/ml	99
11) Hexachlorobutadiene	3.042	225	44658	886.291	ng/ml	100
12) 2-Methylnaphthalene	3.347	142	219269	1281.561	ng/ml	100
15) 2-Chloronaphthalene	3.620	162	244651	1313.195	ng/ml	94
17) Acenaphthylene	3.852	152	456058	1457.270	ng/ml	100
19) Acenaphthene	3.949	153	266042	1405.319	ng/ml	98
21) Fluorene	4.237	166	334231	1465.026	ng/ml	100
25) Hexachlorobenzene	4.555	284	102395	1210.131	ng/ml	95

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250627nRVT\
 Data File : 081607-3.D
 Acq On : 27 Jun 2025 05:19 pm
 Operator : sv119:dv
 Sample : WG2081607-3,32,,DV
 Misc : WG2084498,WG2081607,ical22426
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 27 18:08:38 2025
 Quant Method : I:\8270sim\sv119\250627nRVT\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jun 27 16:24:54 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\250627nRVT\ccv0627n.D
 Sub List : DEFAULT - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26)	Pentachlorophenol	4.663	266	54604	1513.344	ng/ml	100
27)	Phenanthrene	4.780	178	553073	1523.438	ng/ml	100
28)	Anthracene	4.806	178	545016	1486.620	ng/ml	99
29)	Fluoranthene	5.467	202	718538	1502.626	ng/ml	99
30)	Pyrene	5.599	202	738529	1467.605	ng/ml	100
34)	Benzo[a]anthracene	6.346	228	667062	1763.587	ng/ml	100
36)	Chrysene	6.371	228	634890	1746.992	ng/ml	99
39)	Benzo[b]fluoranthene	7.216	252	616966	1978.228	ng/ml	98
40)	Benzo[k]fluoranthene	7.242	252	685429	1900.263	ng/ml	98
41)	Benzo[a]pyrene	7.538	252	542226	1829.938	ng/ml	100
42)	Indeno[1,2,3-cd]pyrene	8.855	276	513208	1853.610	ng/ml	98
43)	Dibenzo[a,h]anthracene	8.893	278	499810M6	1798.587	ng/ml	
44)	Benzo[g,h,i]perylene	9.209	276	533581	1938.780	ng/ml	96

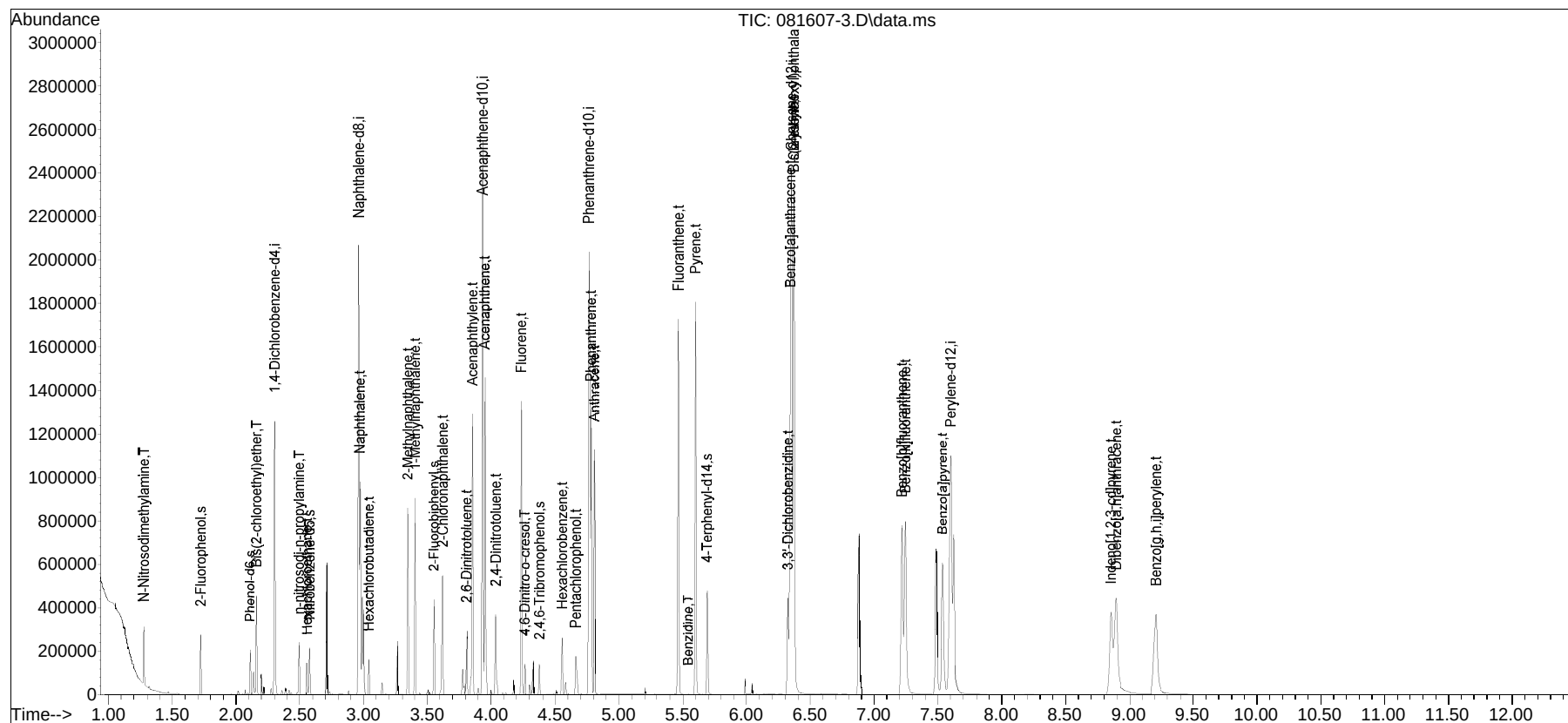
(#) = qualifier out of range (m) = manual integration (+) = signals summed

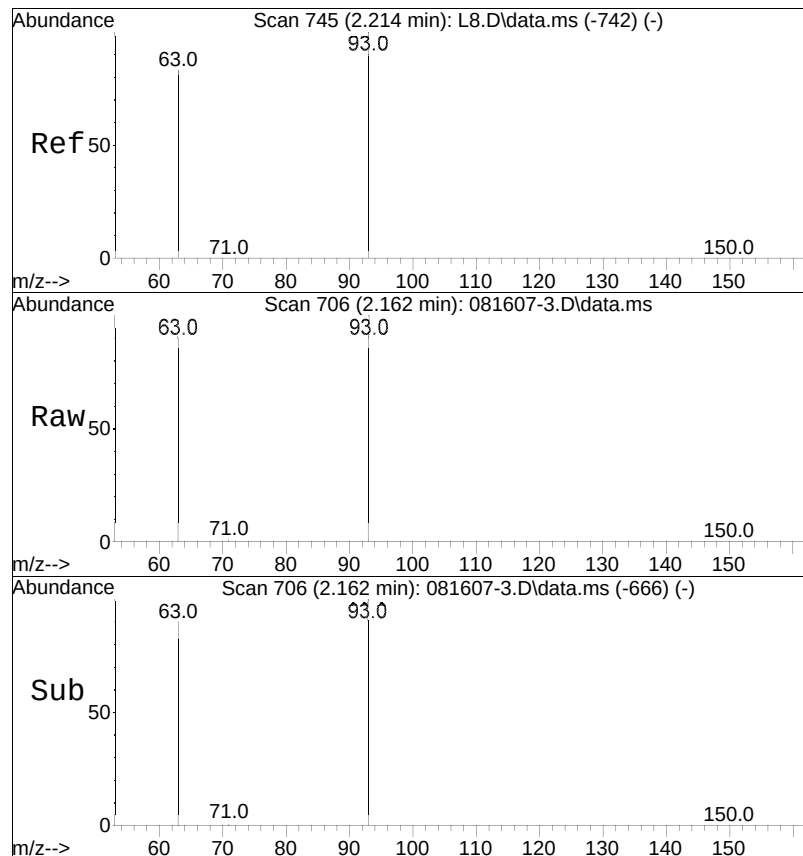
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250627nRVT\
 Data File : 081607-3.D
 Acq On : 27 Jun 2025 05:19 pm
 Operator : sv119:dv
 Sample : WG2081607-3,32,,DV
 Misc : WG2084498,WG2081607,ical22426
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 27 18:08:38 2025
 Quant Method : I:\8270sim\sv119\250627nRVT\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jun 27 16:24:54 2025
 Response via : Initial Calibration

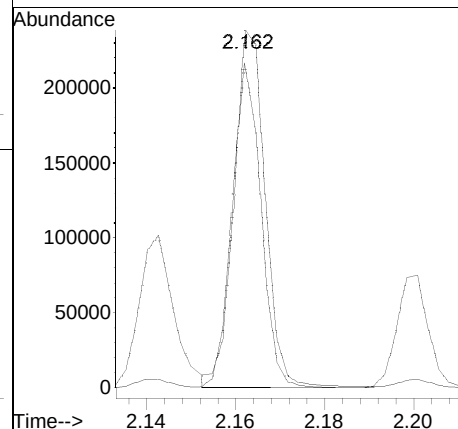
Sub List : DEFAULT - All compounds listedT\ccv0627n.D•

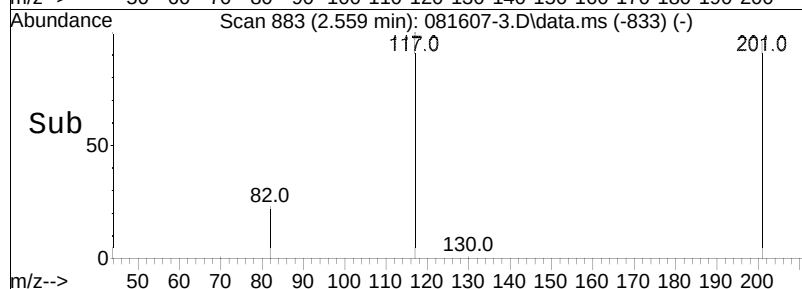
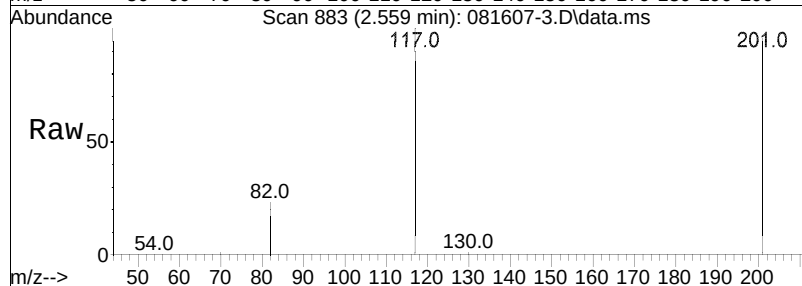
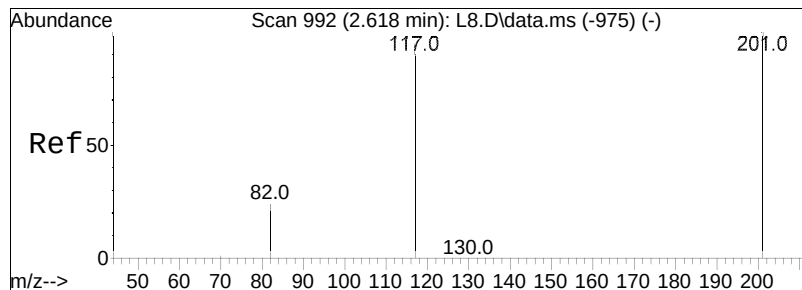




#5
 Bis(2-chloroethyl)ether
 Concen: 1507.31 ng/ml
 RT: 2.162 min Scan# 706
 Delta R.T. 0.017 min
 Lab File: 081607-3.D
 Acq: 27 Jun 2025 05:19 pm

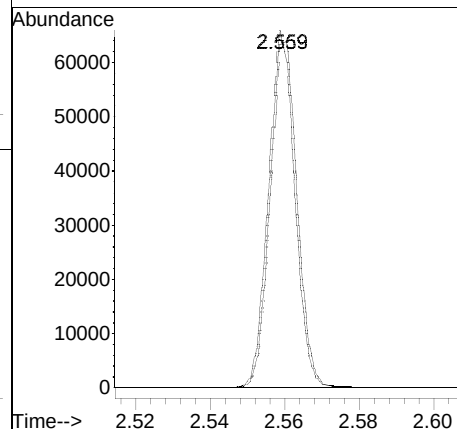
Tgt	Ion	Resp	Lower	Upper
93	100			
63	83.6	62.9	94.3	

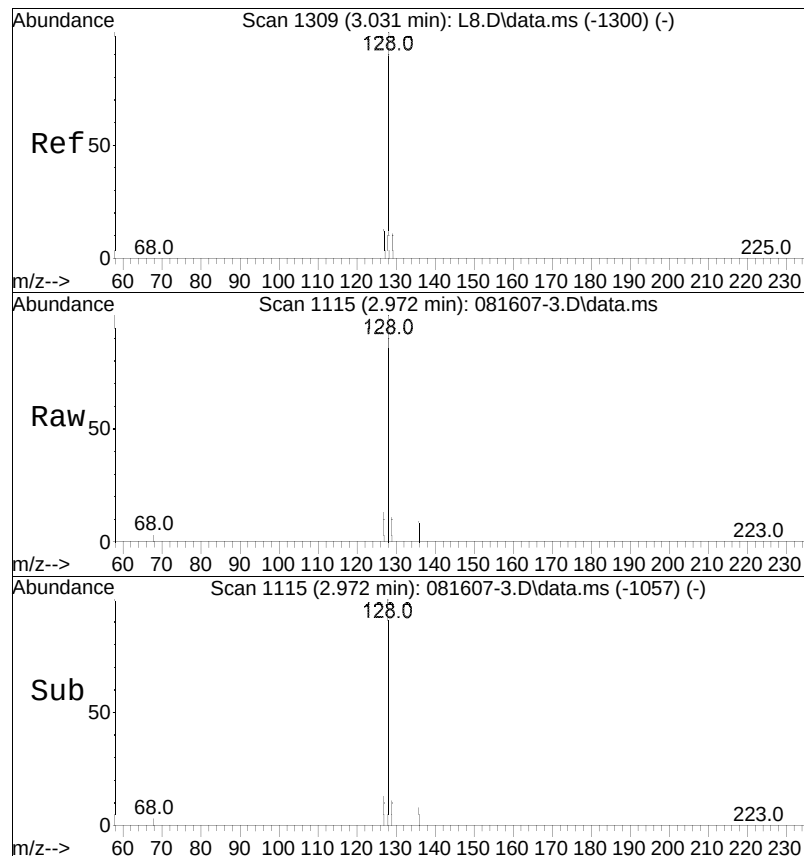




#7
 Hexachloroethane
 Concen: 1001.97 ng/ml
 RT: 2.559 min Scan# 883
 Delta R.T. 0.016 min
 Lab File: 081607-3.D
 Acq: 27 Jun 2025 05:19 pm

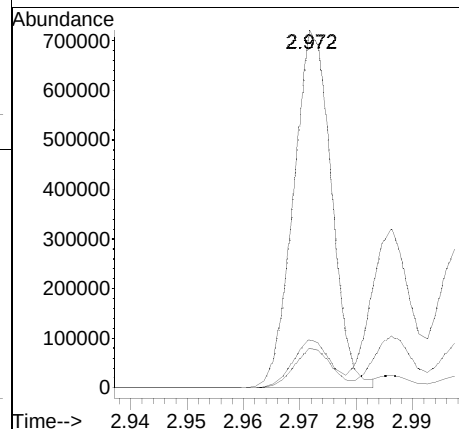
Tgt Ion	Ratio	Lower	Upper
117	100		
201	100.1	82.9	124.3

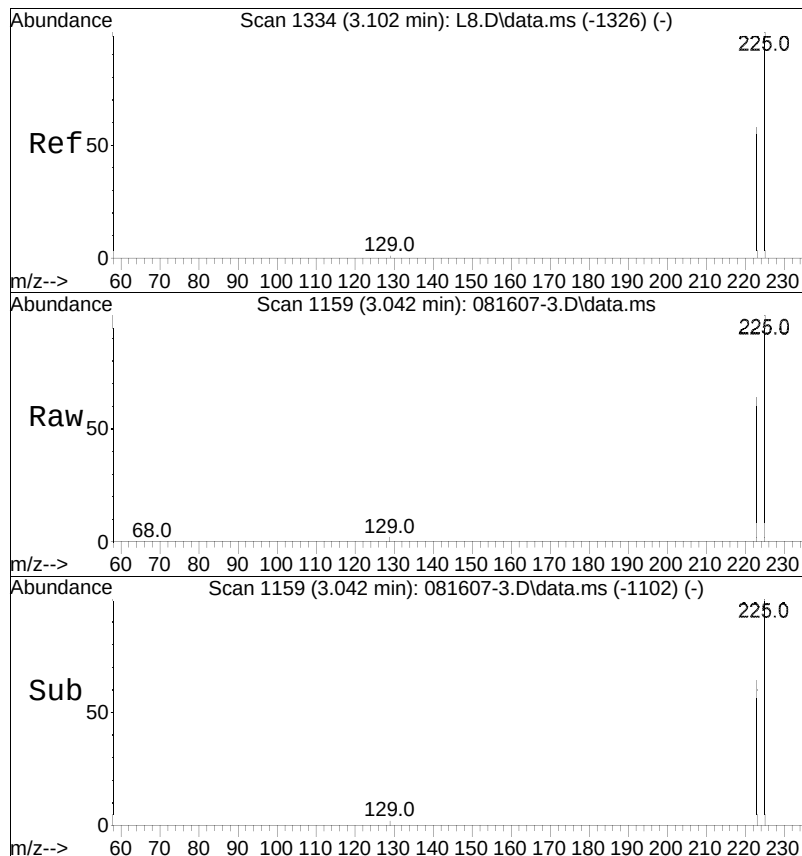




#10
 Naphthalene
 Concen: 1248.63 ng/ml
 RT: 2.972 min Scan# 1115
 Delta R.T. 0.013 min
 Lab File: 081607-3.D
 Acq: 27 Jun 2025 05:19 pm

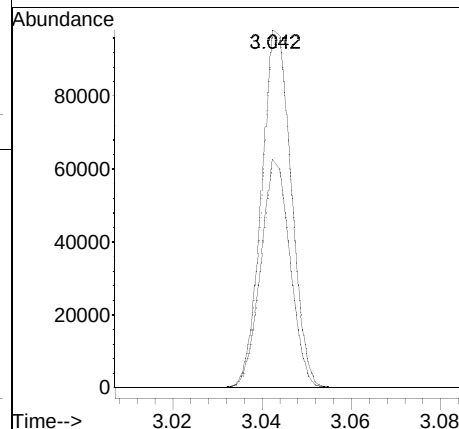
Tgt	Ion:128	Resp:	335399
Ion	Ratio	Lower	Upper
128	100		
129	11.3	8.8	13.2
127	13.5	10.6	15.8

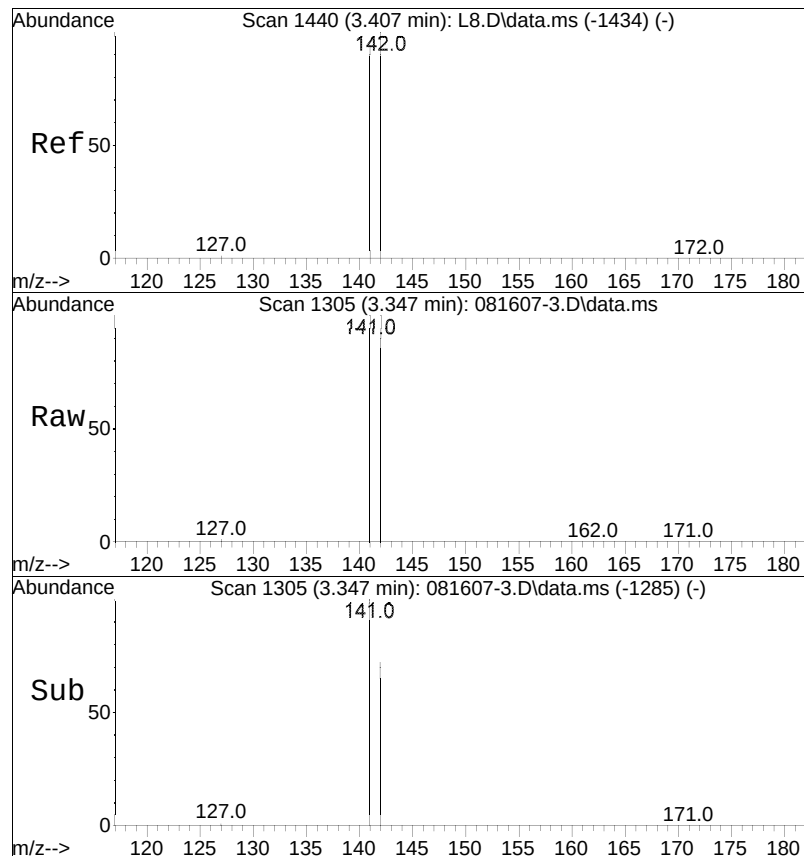




#11
 Hexachlorobutadiene
 Concen: 886.29 ng/ml
 RT: 3.042 min Scan# 1159
 Delta R.T. 0.011 min
 Lab File: 081607-3.D
 Acq: 27 Jun 2025 05:19 pm

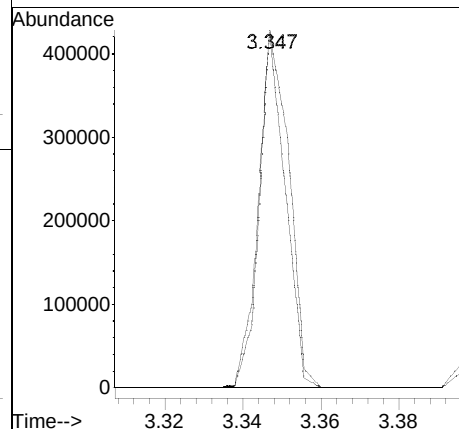
Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.1	50.2	75.4

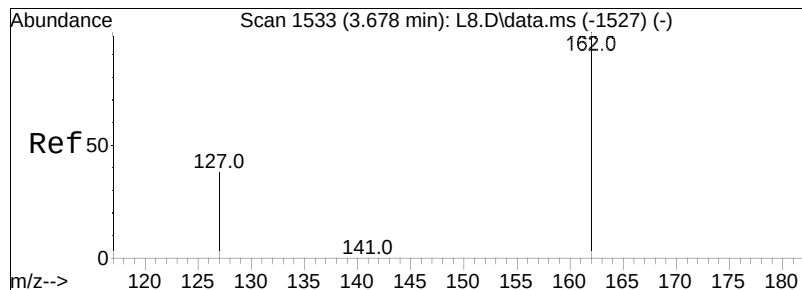




#12
 2-Methylnaphthalene
 Concen: 1281.56 ng/ml
 RT: 3.347 min Scan# 1305
 Delta R.T. 0.009 min
 Lab File: 081607-3.D
 Acq: 27 Jun 2025 05:19 pm

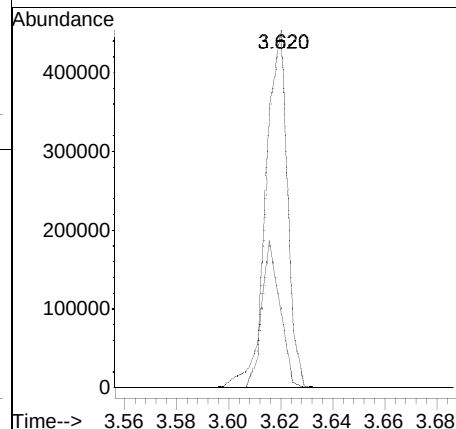
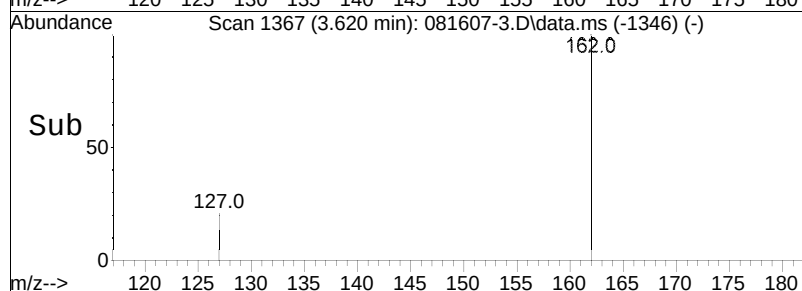
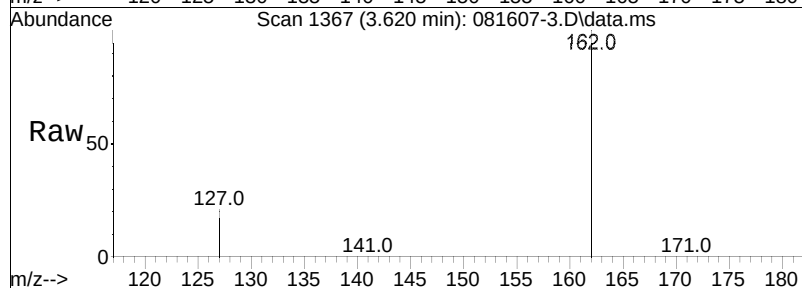
Tgt Ion	Ratio	Lower	Upper
142	100		
141	91.9	73.6	110.4

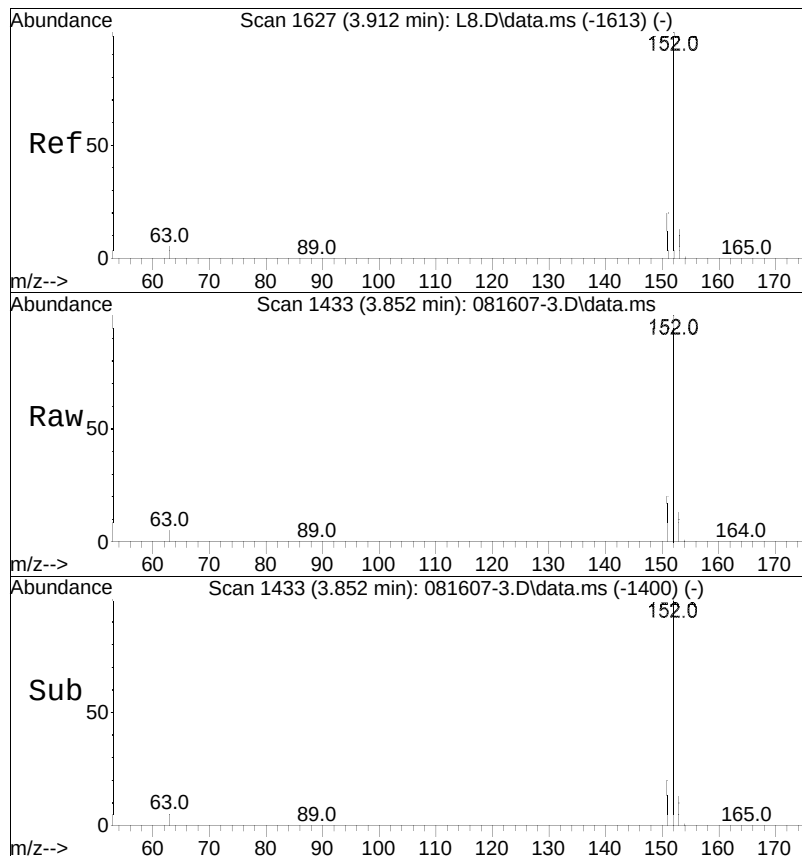




#15
 2-Chloronaphthalene
 Concen: 1313.20 ng/ml
 RT: 3.620 min Scan# 1367
 Delta R.T. 0.013 min
 Lab File: 081607-3.D
 Acq: 27 Jun 2025 05:19 pm

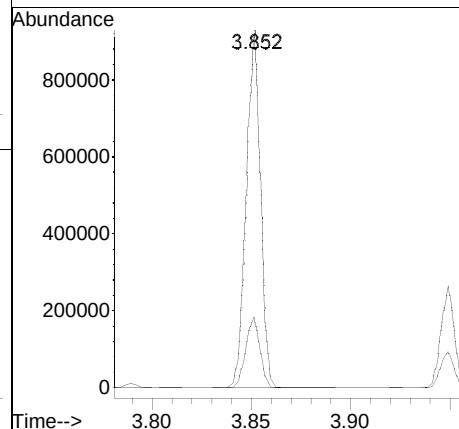
Tgt Ion	Ratio	Lower	Upper
162	100		
127	41.1	29.8	44.8

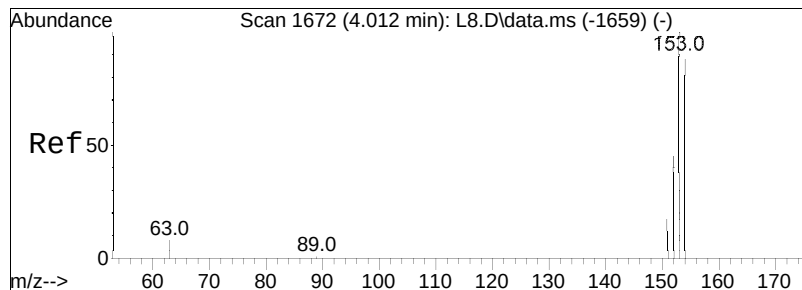




#17
 Acenaphthylene
 Concen: 1457.27 ng/ml
 RT: 3.852 min Scan# 1433
 Delta R.T. 0.008 min
 Lab File: 081607-3.D
 Acq: 27 Jun 2025 05:19 pm

Tgt Ion:	152	Resp:	456058
Ion Ratio	Lower	Upper	
152	100		
151	20.1	16.2	24.2





#19

Acenaphthene

Concen: 1405.32 ng/ml

RT: 3.949 min Scan# 1469

Delta R.T. 0.008 min

Lab File: 081607-3.D

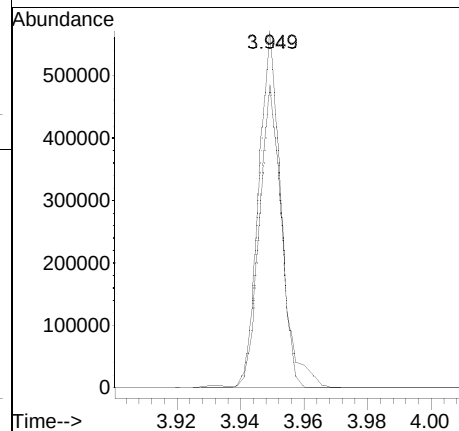
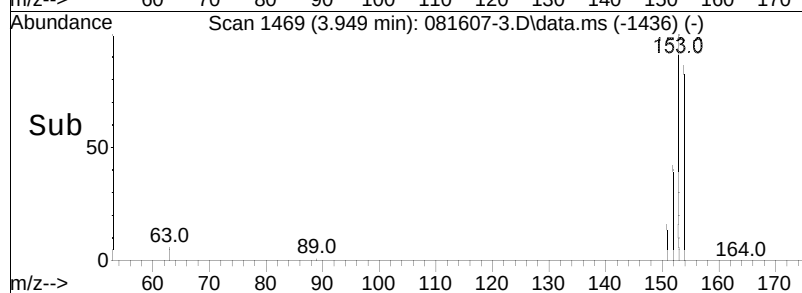
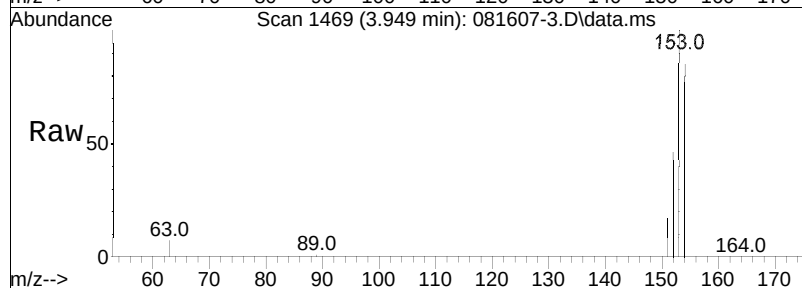
Acq: 27 Jun 2025 05:19 pm

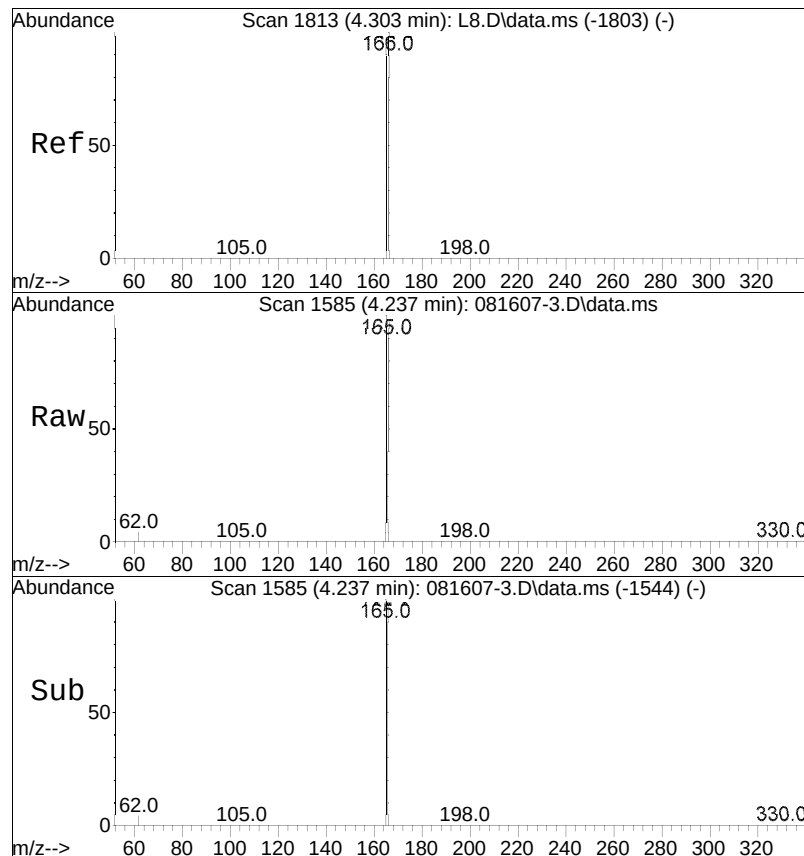
Tgt Ion:153 Resp: 266042

Ion Ratio Lower Upper

153 100

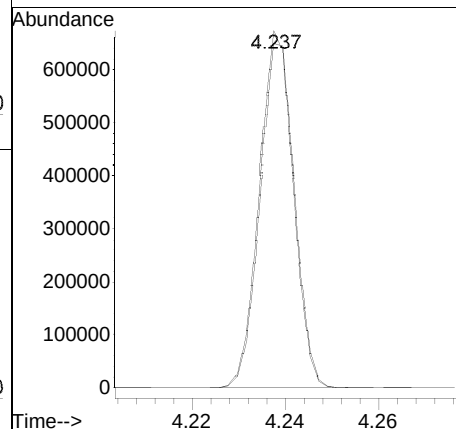
154 91.6 72.0 108.0

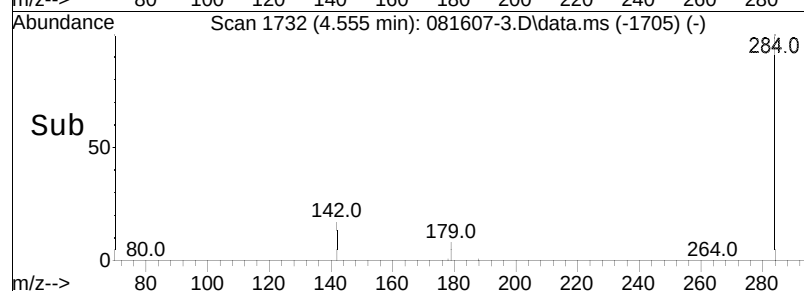
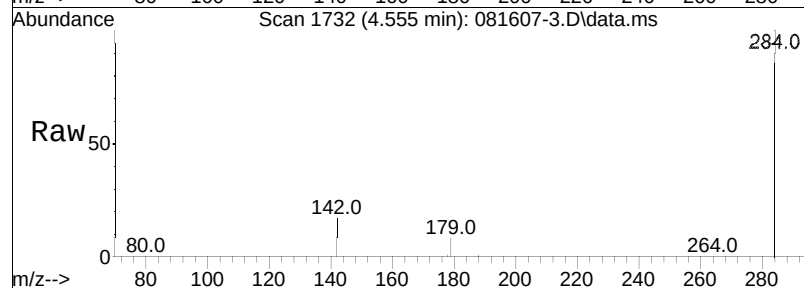
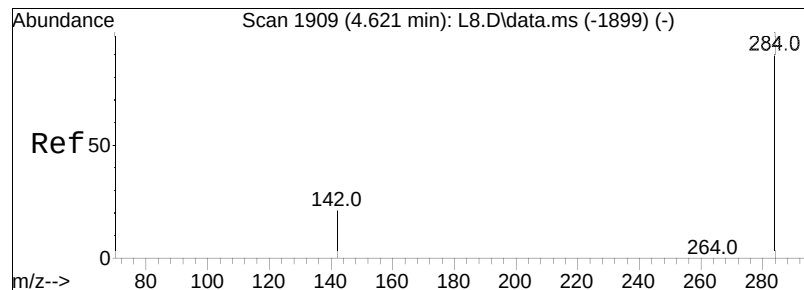




#21
 Fluorene
 Concen: 1465.03 ng/ml
 RT: 4.237 min Scan# 1585
 Delta R.T. 0.006 min
 Lab File: 081607-3.D
 Acq: 27 Jun 2025 05:19 pm

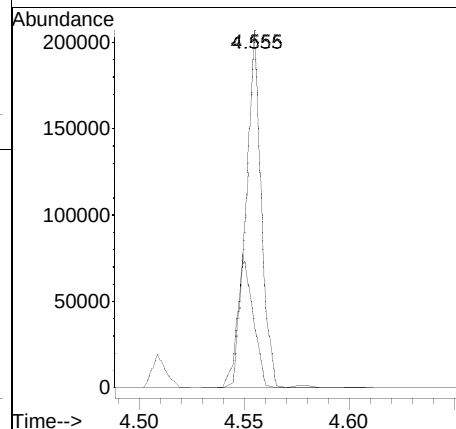
Tgt Ion	Ratio	Lower	Upper
166	100		
165	101.6	81.5	122.3

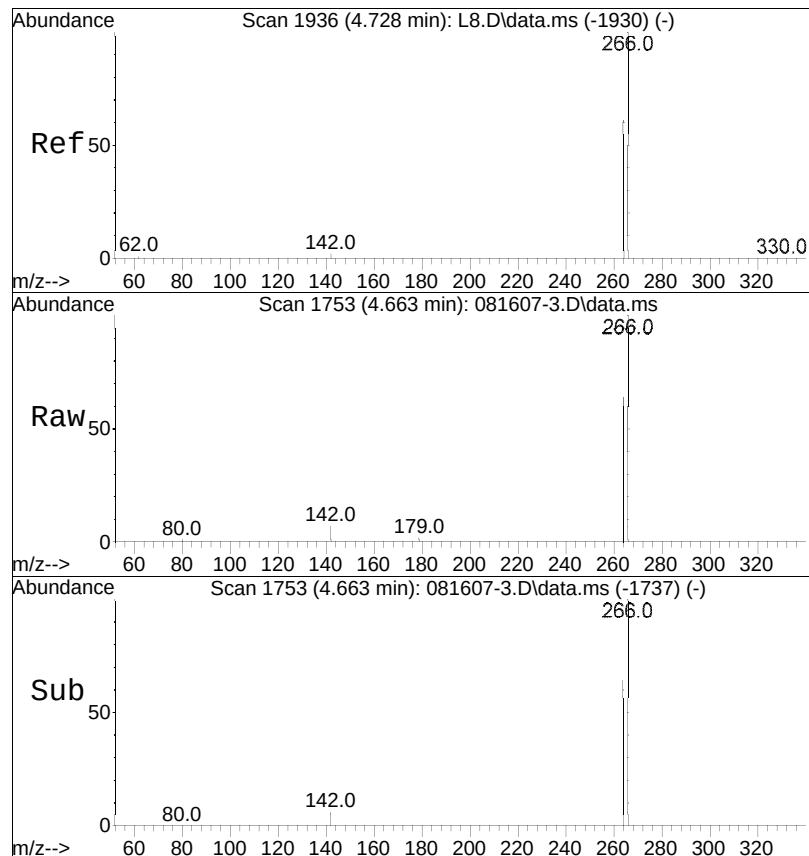




#25
Hexachlorobenzene
Concen: 1210.13 ng/ml
RT: 4.555 min Scan# 1732
Delta R.T. 0.005 min
Lab File: 081607-3.D
Acq: 27 Jun 2025 05:19 pm

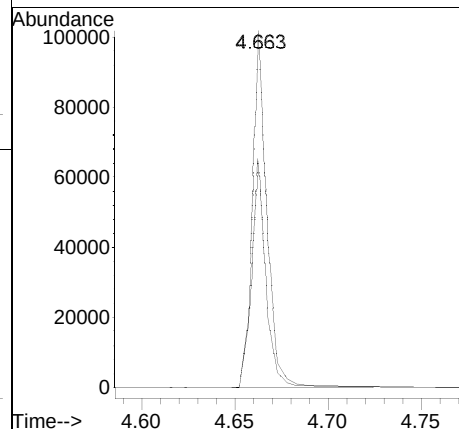
Tgt Ion	Ratio	Lower	Upper
284	100		
142	39.1	28.8	43.2

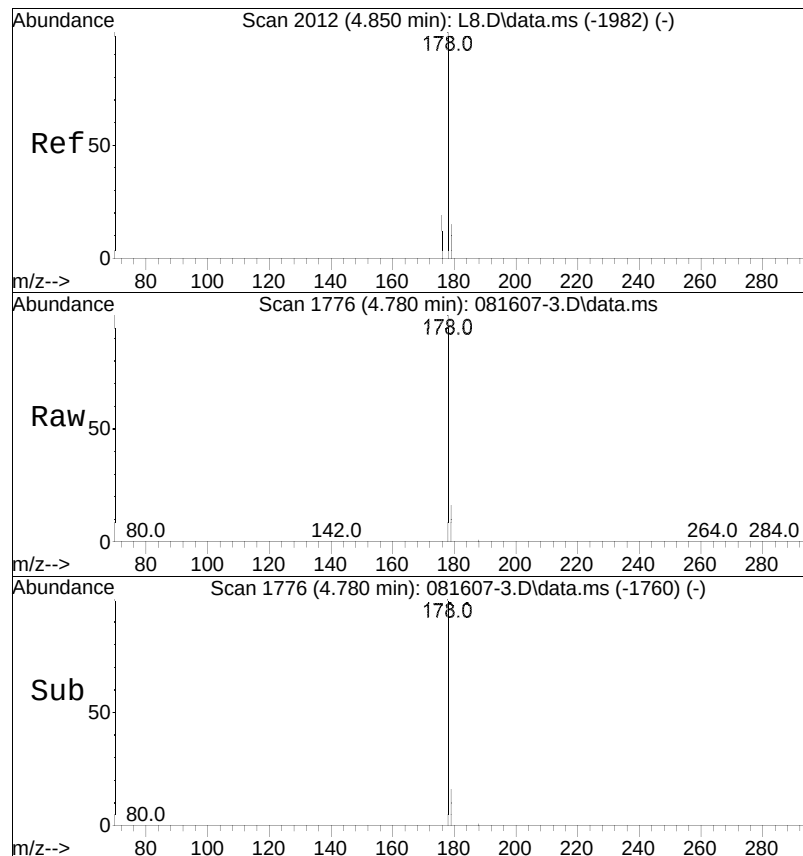




#26
 Pentachlorophenol
 Concen: 1513.34 ng/ml
 RT: 4.663 min Scan# 1753
 Delta R.T. 0.000 min
 Lab File: 081607-3.D
 Acq: 27 Jun 2025 05:19 pm

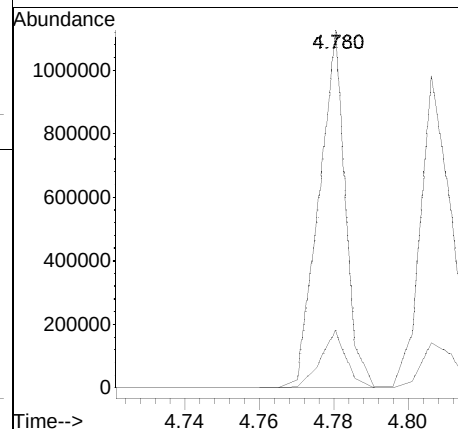
Tgt Ion	Ratio	Lower	Upper
266	100		
264	63.7	50.6	76.0

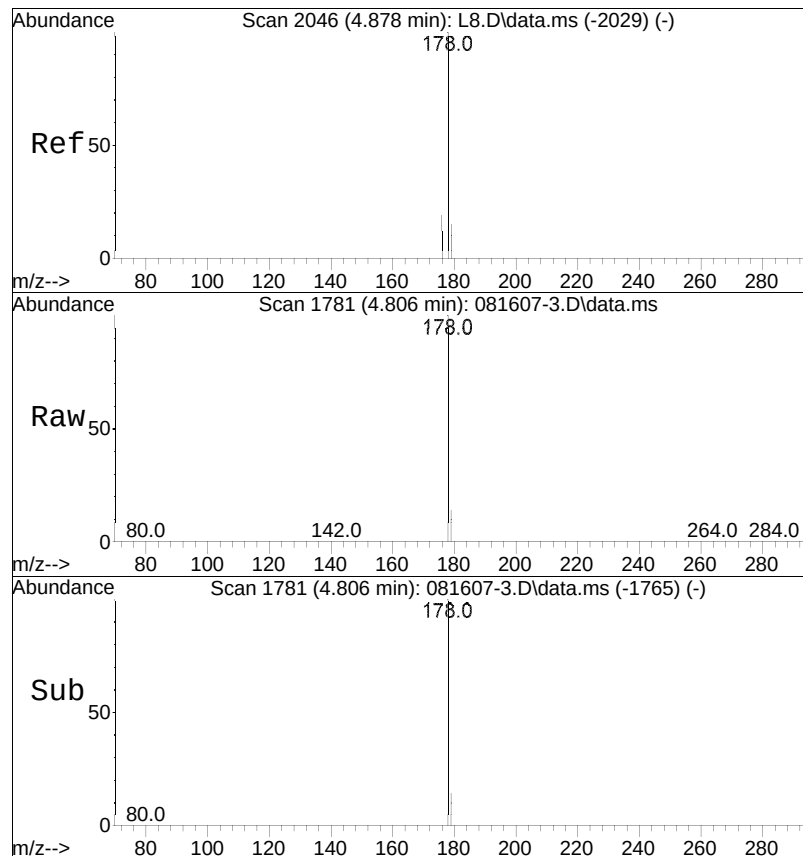




#27
 Phenanthrene
 Concen: 1523.44 ng/ml
 RT: 4.780 min Scan# 1776
 Delta R.T. 0.000 min
 Lab File: 081607-3.D
 Acq: 27 Jun 2025 05:19 pm

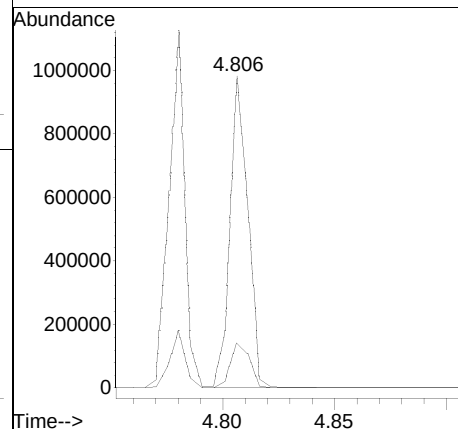
Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.6	12.4	18.6

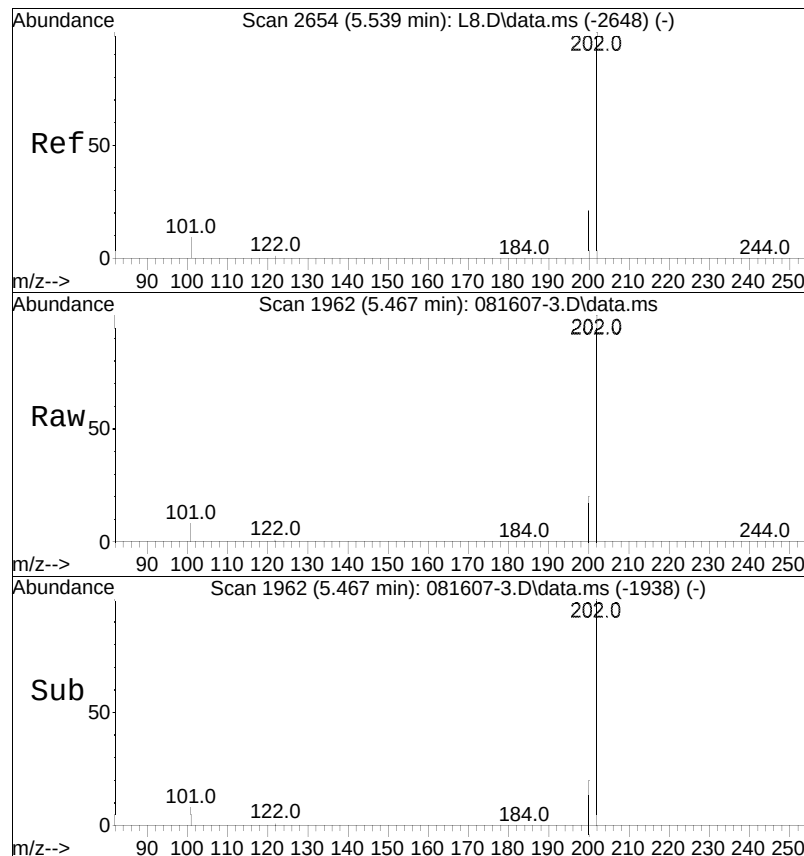




#28
 Anthracene
 Concen: 1486.62 ng/ml
 RT: 4.806 min Scan# 1781
 Delta R.T. 0.000 min
 Lab File: 081607-3.D
 Acq: 27 Jun 2025 05:19 pm

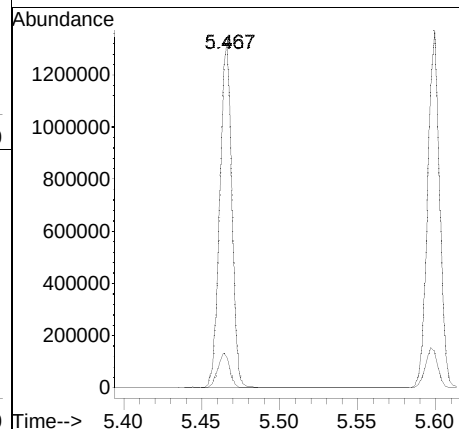
Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.7	12.2	18.2

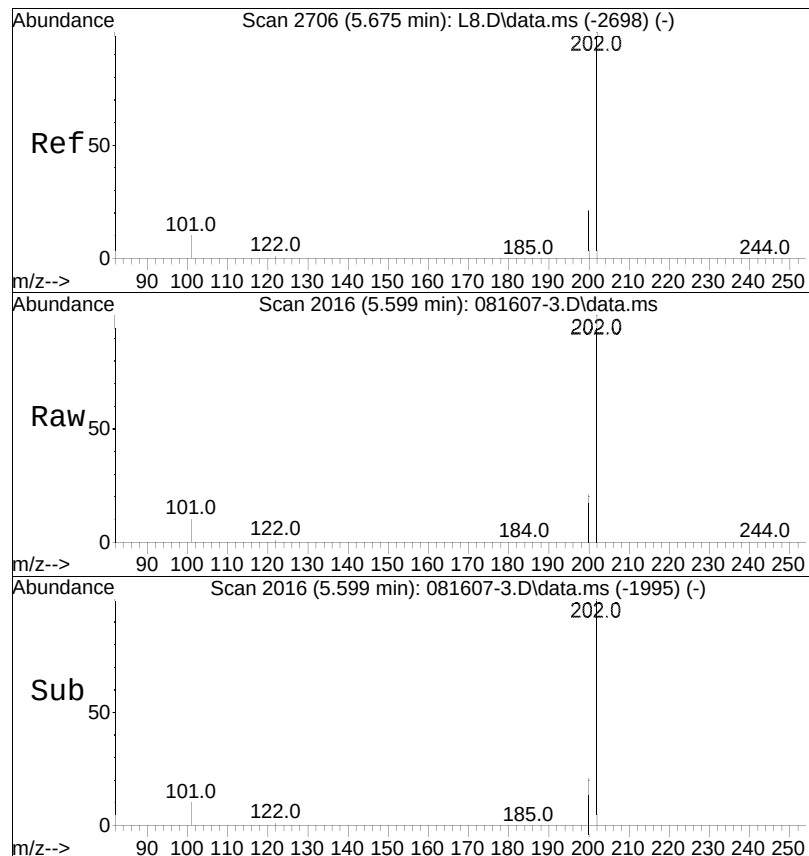




#29
 Fluoranthene
 Concen: 1502.63 ng/ml
 RT: 5.467 min Scan# 1962
 Delta R.T. -0.022 min
 Lab File: 081607-3.D
 Acq: 27 Jun 2025 05:19 pm

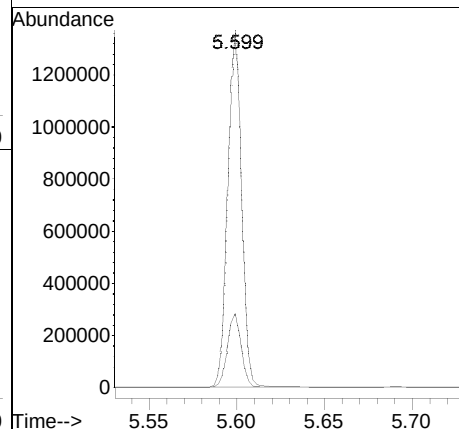
Tgt Ion	Ratio	Resp	Lower	Upper
202	100	718538		
101	9.9		7.5	11.3

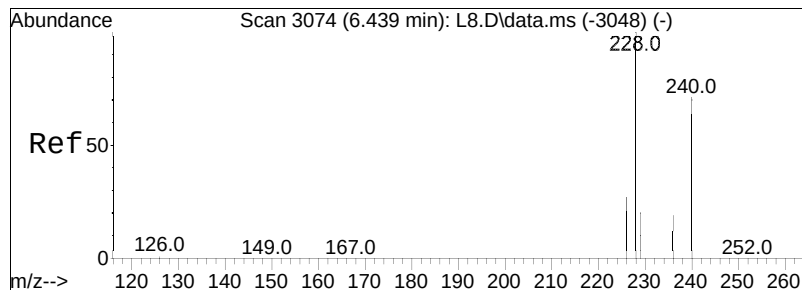




#30
 Pyrene
 Concen: 1467.60 ng/ml
 RT: 5.599 min Scan# 2016
 Delta R.T. -0.029 min
 Lab File: 081607-3.D
 Acq: 27 Jun 2025 05:19 pm

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.0	25.4





#34

Benzo[a]anthracene

Concen: 1763.59 ng/ml

RT: 6.346 min Scan# 2404

Delta R.T. -0.059 min

Lab File: 081607-3.D

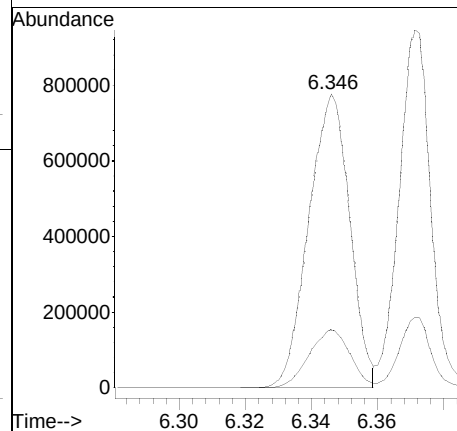
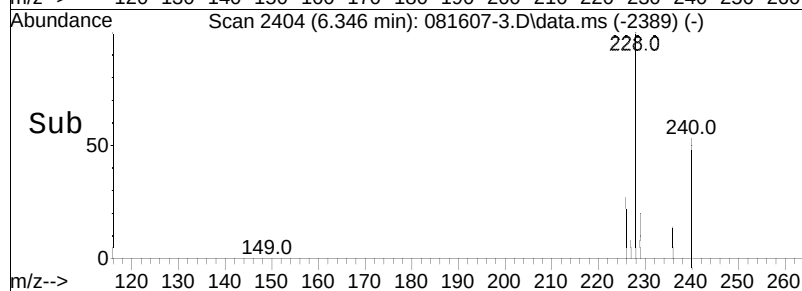
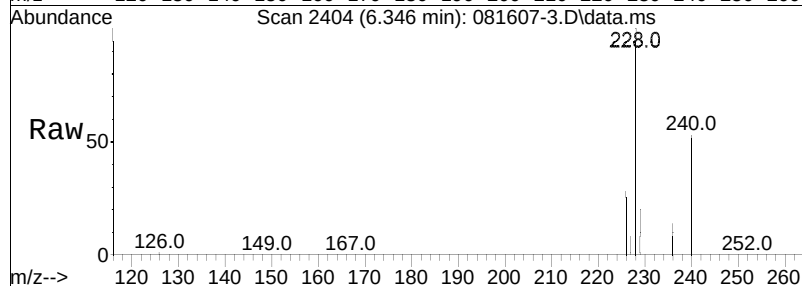
Acq: 27 Jun 2025 05:19 pm

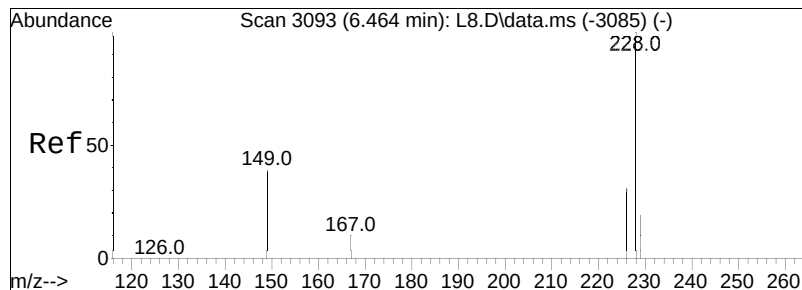
Tgt Ion: 228 Resp: 667062

Ion Ratio Lower Upper

228 100

229 19.7 15.8 23.6





#36

Chrysene

Concen: 1746.99 ng/ml

RT: 6.371 min Scan# 2422

Delta R.T. -0.059 min

Lab File: 081607-3.D

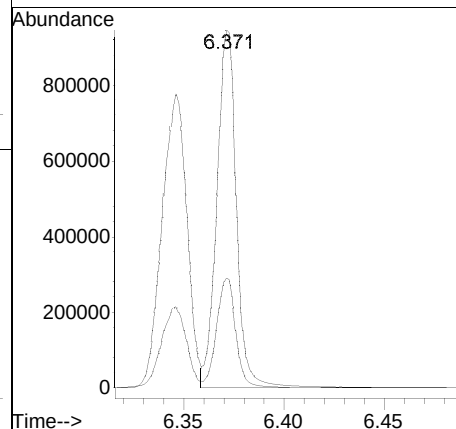
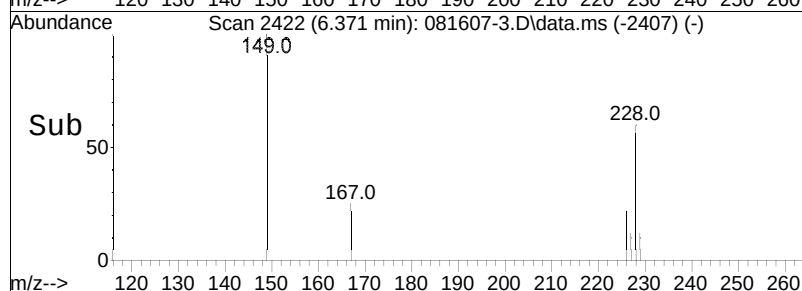
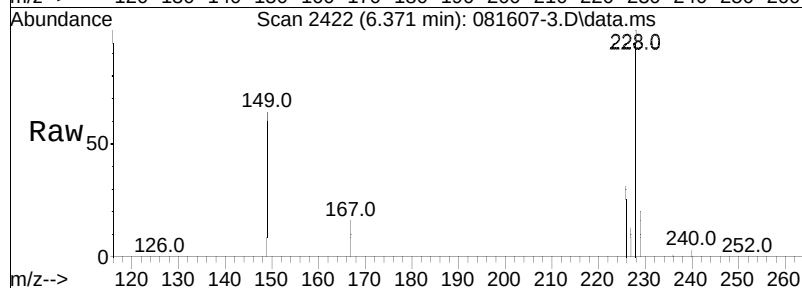
Acq: 27 Jun 2025 05:19 pm

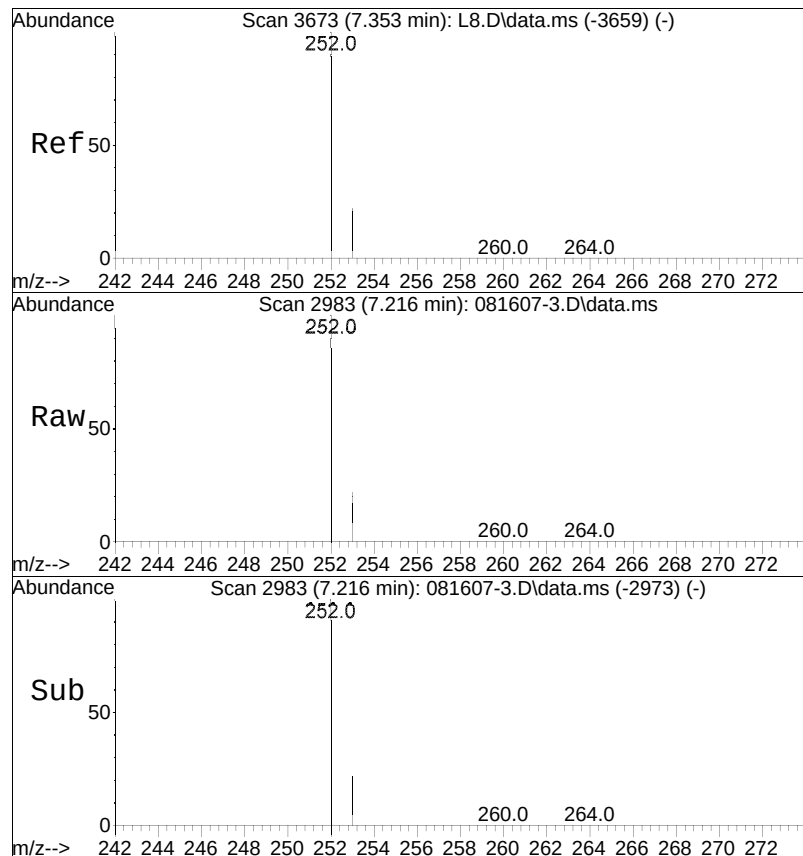
Tgt Ion: 228 Resp: 634890

Ion Ratio Lower Upper

228 100

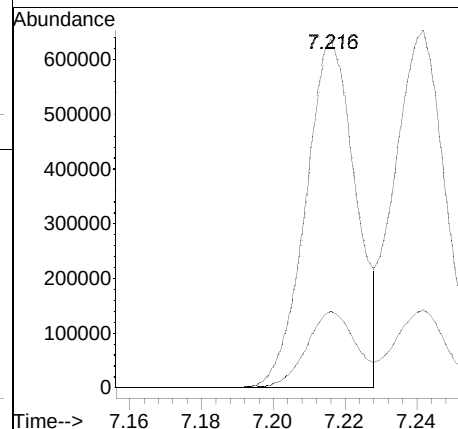
226 30.5 24.6 37.0

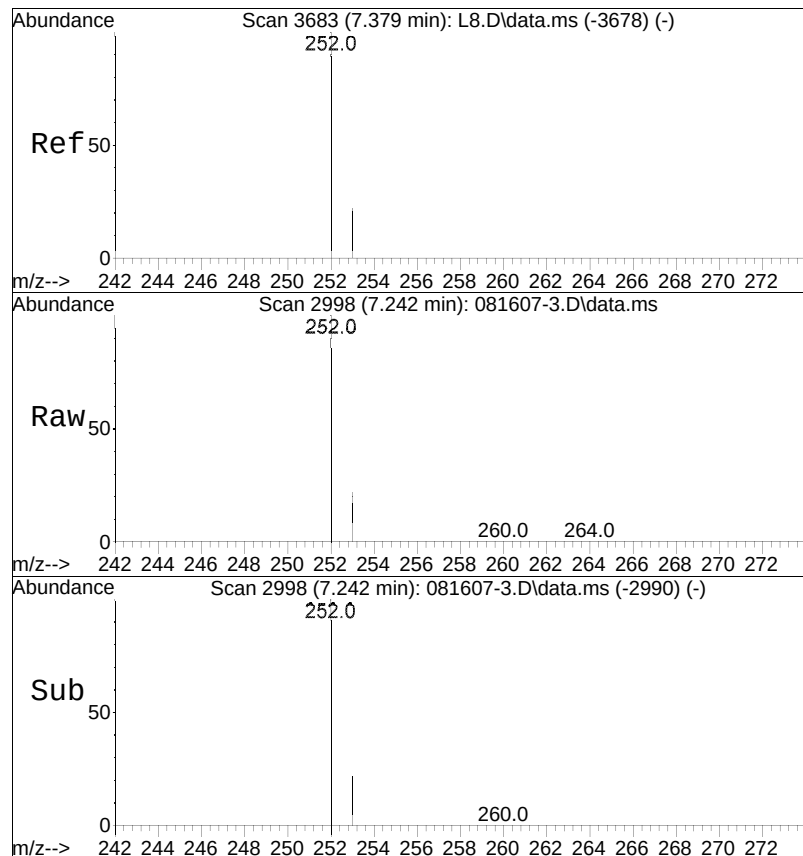




#39
 Benzo[b]fluoranthene
 Concen: 1978.23 ng/ml
 RT: 7.216 min Scan# 2983
 Delta R.T. -0.063 min
 Lab File: 081607-3.D
 Acq: 27 Jun 2025 05:19 pm

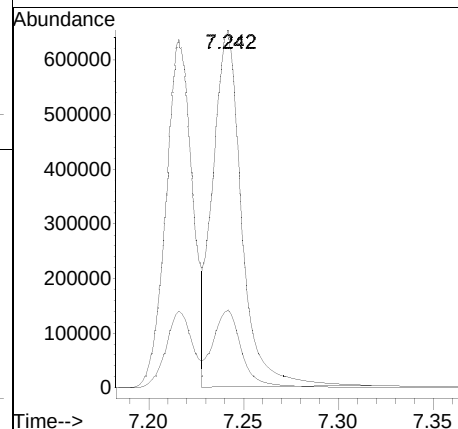
Tgt Ion:	252	Resp:	616966
Ion Ratio	Lower	Upper	
252	100		
253	21.8	18.1	27.1

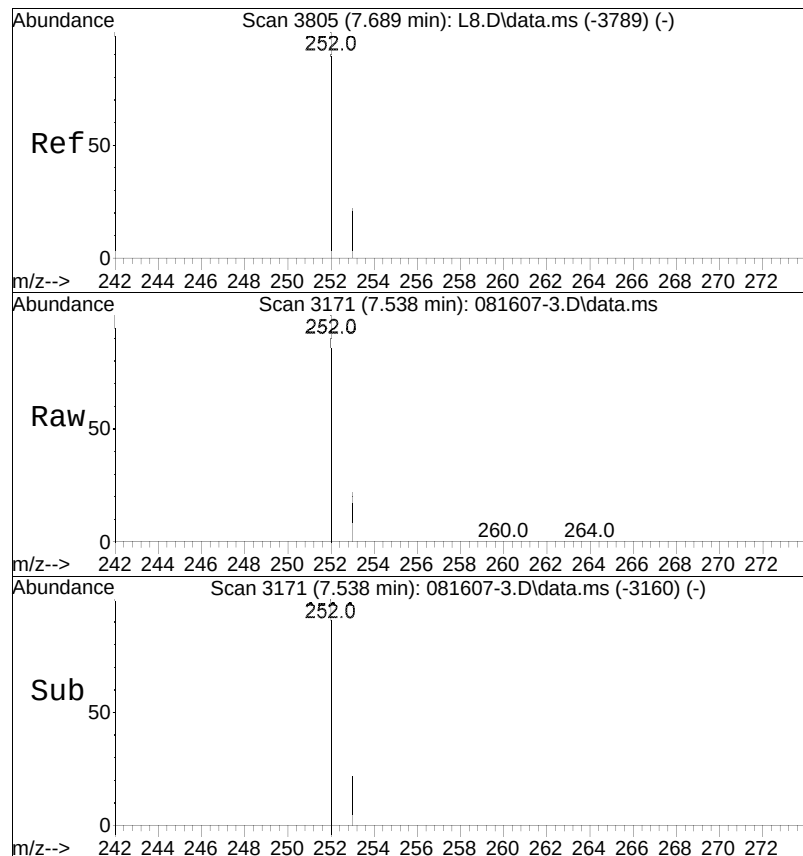




#40
 Benzo[k]fluoranthene
 Concen: 1900.26 ng/ml
 RT: 7.242 min Scan# 2998
 Delta R.T. -0.067 min
 Lab File: 081607-3.D
 Acq: 27 Jun 2025 05:19 pm

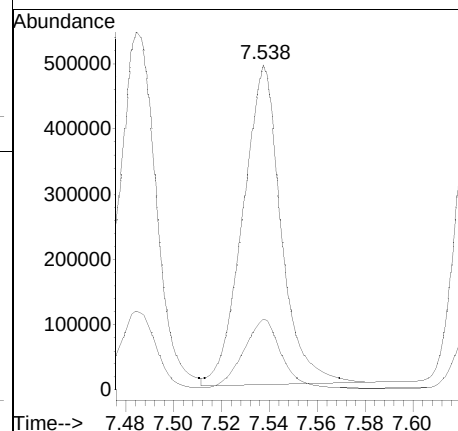
Tgt	Ion	Ratio	Lower	Upper
252	100			
253	21.9	17.0	25.4	

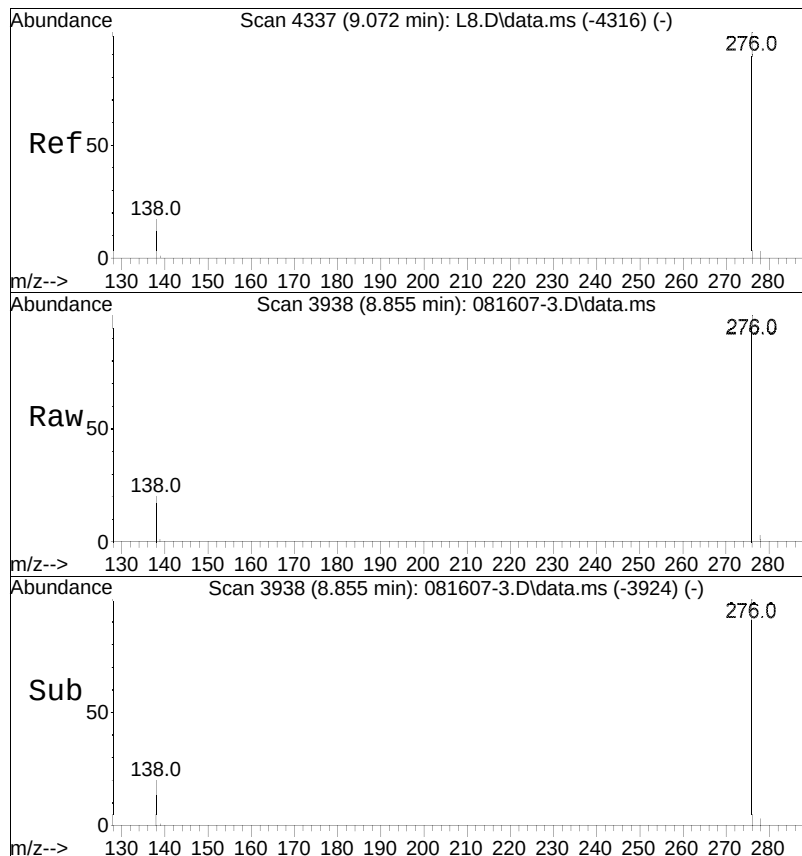




#41
 Benzo[a]pyrene
 Concen: 1829.94 ng/ml
 RT: 7.538 min Scan# 3171
 Delta R.T. -0.061 min
 Lab File: 081607-3.D
 Acq: 27 Jun 2025 05:19 pm

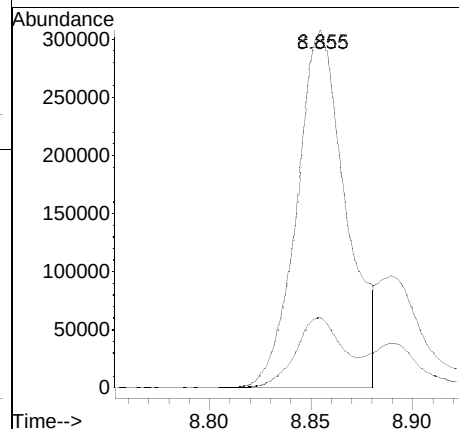
Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.4	26.0

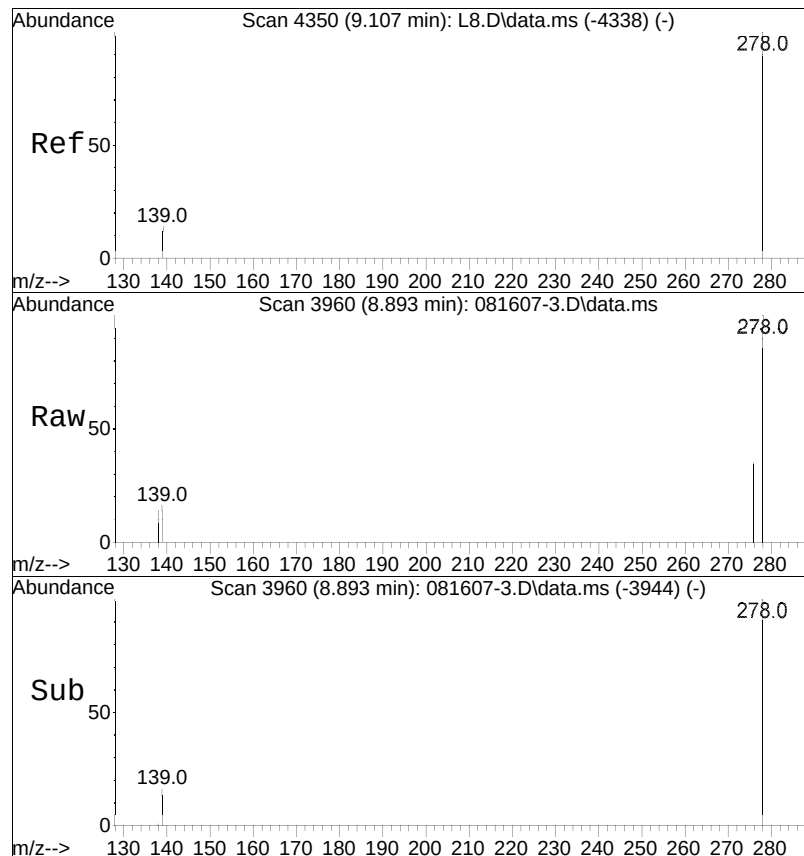




#42
 Indeno[1,2,3-cd]pyrene
 Concen: 1853.61 ng/ml
 RT: 8.855 min Scan# 3938
 Delta R.T. -0.055 min
 Lab File: 081607-3.D
 Acq: 27 Jun 2025 05:19 pm

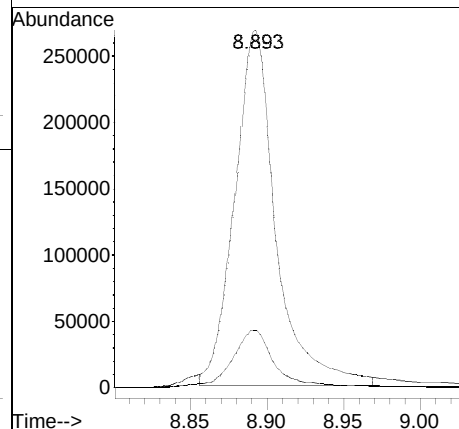
Tgt Ion	Ratio	Lower	Upper
276	100		
138	18.9	14.4	21.6

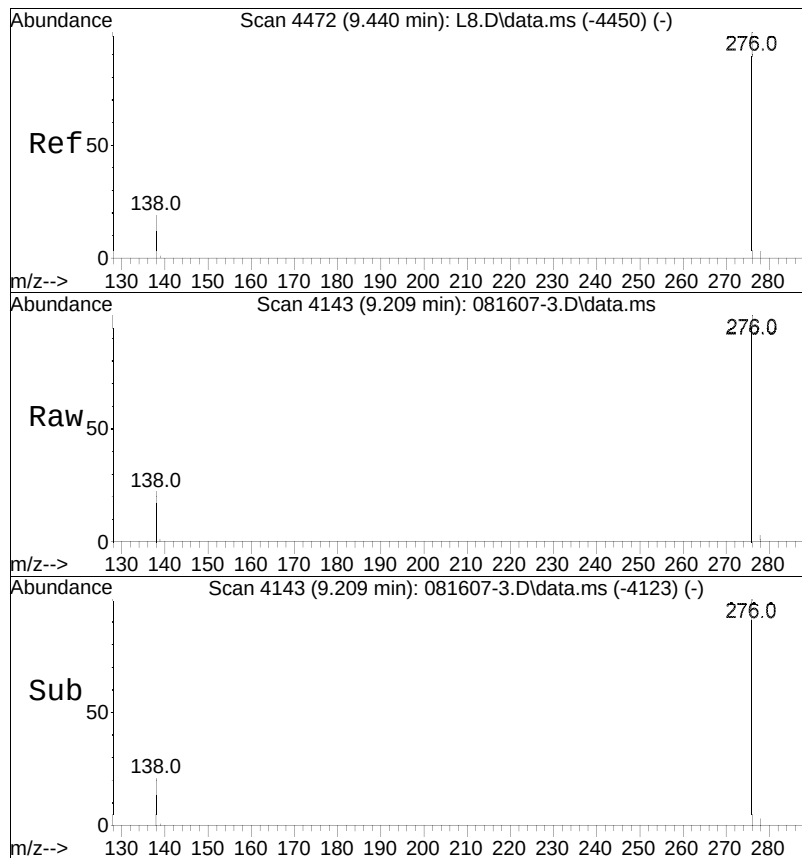




#43
 Dibenzo[a,h]anthracene
 Concen: 1798.59 ng/ml M6
 RT: 8.893 min Scan# 3960
 Delta R.T. -0.052 min
 Lab File: 081607-3.D
 Acq: 27 Jun 2025 05:19 pm

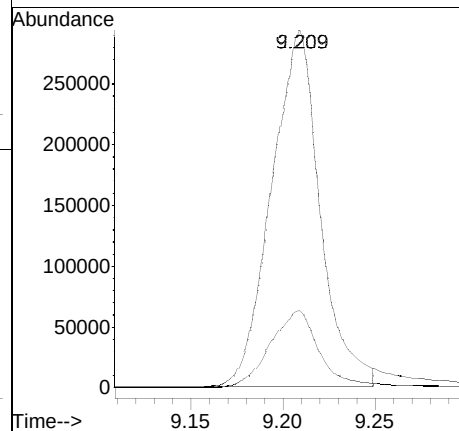
Tgt Ion	Ratio	Lower	Upper
278	100		
139	16.5	12.1	18.1





#44
Benzo[g,h,i]perylene
Concen: 1938.78 ng/ml
RT: 9.209 min Scan# 4143
Delta R.T. -0.045 min
Lab File: 081607-3.D
Acq: 27 Jun 2025 05:19 pm

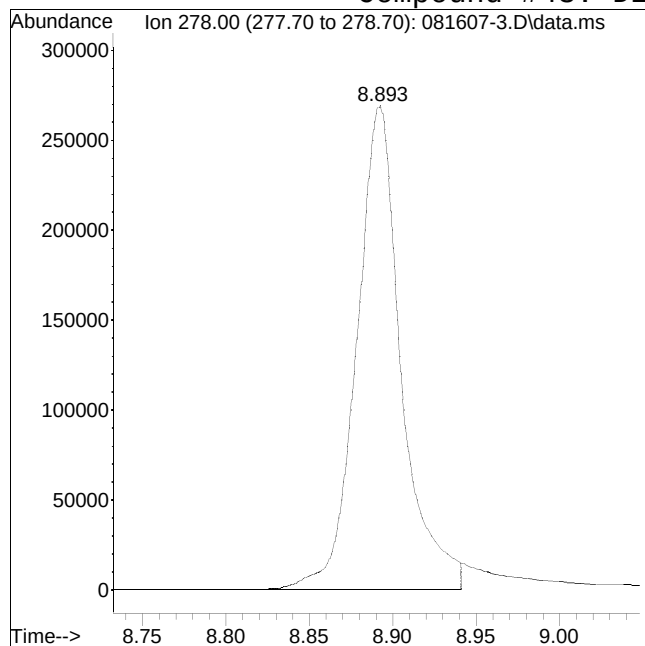
Tgt	Ion	Ratio	Lower	Upper
276	100			
138	21.7	16.0	24.0	



Manual Integration Report

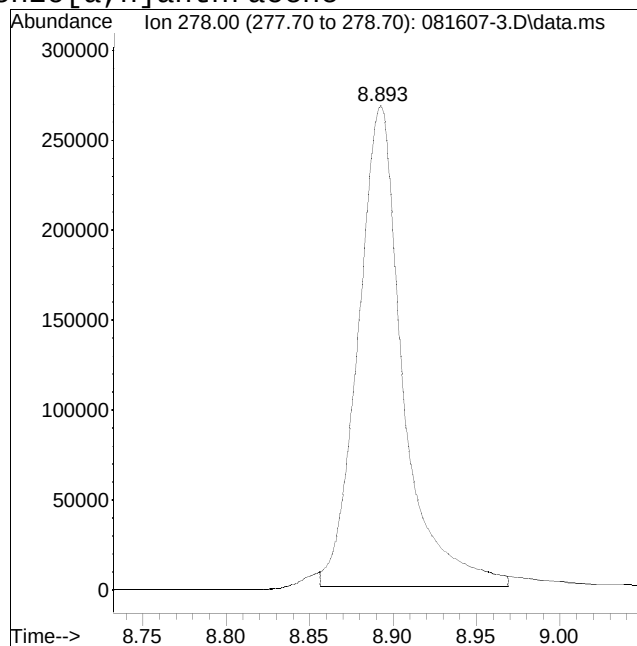
Data Path : I:\8270SIM\sv119\250627nrv\01 Method : SIM-RVT_250625_sv119.M
Data File : 081607-3.D Operator : sv119:dv
Date Inj'd : 6/27/2025 5:19 pm Instrument : SV119
Sample : WG2081607-3,32,,DV Quant Date : 6/27/2025 5:32 pm

Compound #43: Dibenzo[a,h]anthracene



Original Peak Response = 501387

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 499810 M6

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250627nRVT\
 Data File : 081607-4.D
 Acq On : 27 Jun 2025 07:33 pm
 Operator : sv119:dv
 Sample : WG2081607-4,32,,DV
 Misc : WG2084498,WG2081607,ical22426
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 27 20:12:57 2025
 Quant Method : I:\8270sim\sv119\250627nRVT\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jun 27 16:24:54 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\250627nRVT\ccv0627n.D
 Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.300	152	257045	4000.000	ng/ml	0.02
Standard Area 1 = 237452			Recovery	= 108.25%		
9) Naphthalene-d8	2.962	136	1035077	4000.000	ng/ml	0.01
Standard Area 1 = 908349			Recovery	= 113.95%		
18) Acenaphthene-d10	3.933	164	639201	4000.000	ng/ml	0.00
Standard Area 1 = 521676			Recovery	= 122.53%		
23) Phenanthrene-d10	4.765	188	1319573	4000.000	ng/ml	0.00
Standard Area 1 = 1047157			Recovery	= 126.01%		
33) Chrysene-d12	6.351	240	1208078M4	4000.000	ng/ml	-0.06
Standard Area 1 = 1073641			Recovery	= 112.52%		
38) Perylene-d12	7.596	264	1109016	4000.000	ng/ml	-0.07
Standard Area 1 = 1075366			Recovery	= 103.13%		
System Monitoring Compounds						
3) 2-Fluorophenol	1.722	112	89496	1204.878	ng/ml	0.03
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 60.24%		
4) Phenol-d6	2.112	99	85255	924.050	ng/ml	0.02
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 46.20%		
8) Nitrobenzene-d5	2.578	82	63152	747.489	ng/ml	0.02
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 74.75%		
14) 2-Fluorobiphenyl	3.554	172	188413	812.321	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 81.23%		
22) 2,4,6-Tribromophenol	4.374	330	49077	1337.258	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 66.86%		
32) 4-Terphenyl-d14	5.688	244	267060	732.057	ng/ml	-0.04
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 73.21%		
Target Compounds						Qvalue
5) Bis(2-chloroethyl)ether	2.162	93	134433	1677.057	ng/ml	94
7) Hexachloroethane	2.559	117	33635	1019.152	ng/ml	97
10) Naphthalene	2.972	128	378675	1347.085	ng/ml	99
11) Hexachlorobutadiene	3.043	225	47543	901.609	ng/ml	99
12) 2-Methylnaphthalene	3.347	142	245953	1373.628	ng/ml	100
15) 2-Chloronaphthalene	3.621	162	282426	1448.577	ng/ml	93
17) Acenaphthylene	3.852	152	523896	1599.632	ng/ml	100
19) Acenaphthene	3.950	153	319045	1507.453	ng/ml	98
21) Fluorene	4.238	166	402695	1578.854	ng/ml	99
25) Hexachlorobenzene	4.555	284	129390	1390.879	ng/ml	96

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250627nRVT\
 Data File : 081607-4.D
 Acq On : 27 Jun 2025 07:33 pm
 Operator : sv119:dv
 Sample : WG2081607-4,32,,DV
 Misc : WG2084498,WG2081607,ical22426
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 27 20:12:57 2025
 Quant Method : I:\8270sim\sv119\250627nRVT\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jun 27 16:24:54 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\250627nRVT\ccv0627n.D
 Sub List : DEFAULT - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26)	Pentachlorophenol	4.663	266	71474	1764.012	ng/ml	100
27)	Phenanthrene	4.781	178	654722	1640.342	ng/ml	99
28)	Anthracene	4.806	178	647630	1606.766	ng/ml	99
29)	Fluoranthene	5.465	202	865668	1646.598	ng/ml	99
30)	Pyrene	5.597	202	839822	1517.972	ng/ml	100
34)	Benzo[a]anthracene	6.341	228	785308	1916.785	ng/ml	100
36)	Chrysene	6.366	228	739387	1877.634	ng/ml	100
39)	Benzo[b]fluoranthene	7.211	252	662162	2160.952	ng/ml	98
40)	Benzo[k]fluoranthene	7.235	252	731701	2064.670	ng/ml	98
41)	Benzo[a]pyrene	7.531	252	578506	1987.146	ng/ml	100
42)	Indeno[1,2,3-cd]pyrene	8.853	276	544982	1990.774	ng/ml	97
43)	Dibenzo[a,h]anthracene	8.886	278	542929M6	1978.886	ng/ml	
44)	Benzo[g,h,i]perylene	9.204	276	560990	2074.670	ng/ml	96

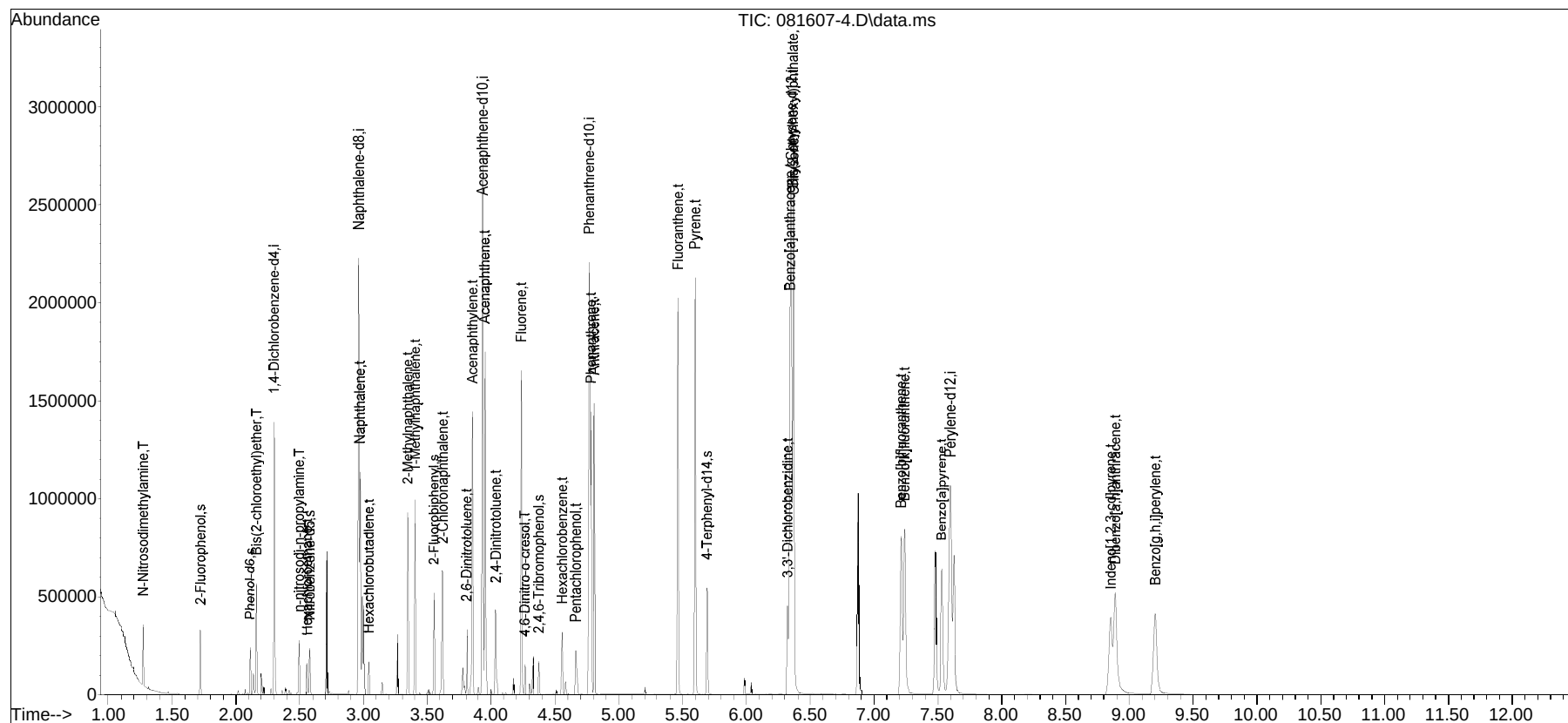
(#) = qualifier out of range (m) = manual integration (+) = signals summed

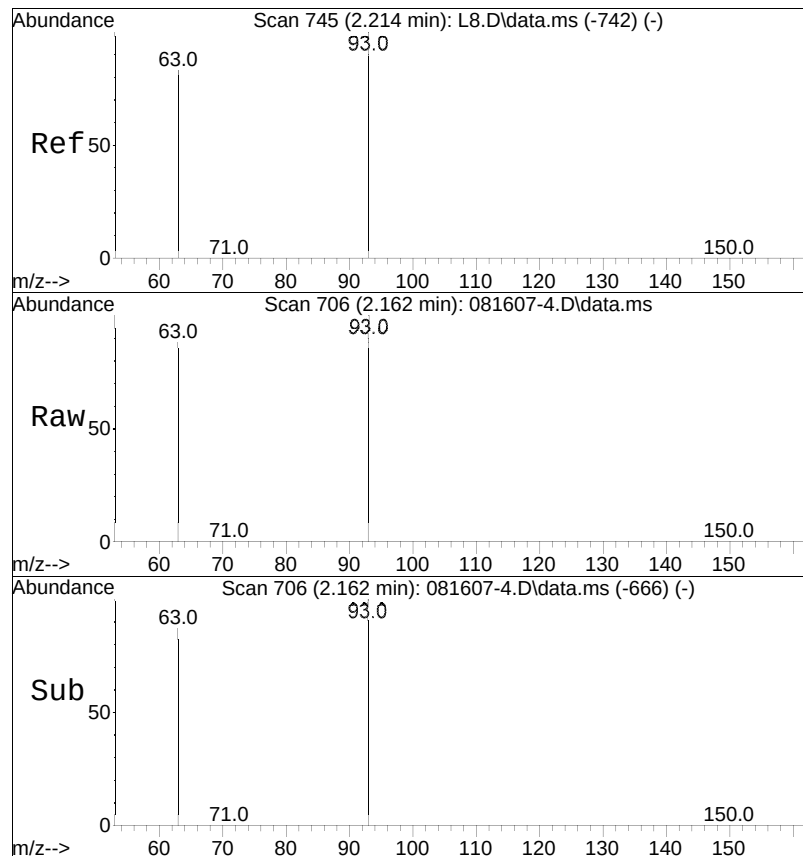
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250627nRVT\
 Data File : 081607-4.D
 Acq On : 27 Jun 2025 07:33 pm
 Operator : sv119:dv
 Sample : WG2081607-4,32,,DV
 Misc : WG2084498,WG2081607,ical22426
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 27 20:12:57 2025
 Quant Method : I:\8270sim\sv119\250627nRVT\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jun 27 16:24:54 2025
 Response via : Initial Calibration

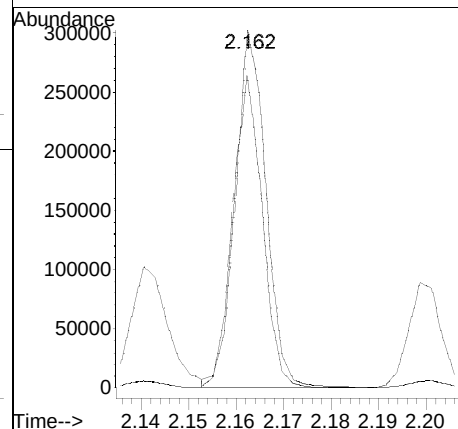
Sub List : DEFAULT - All compounds listedT\ccv0627n.D•

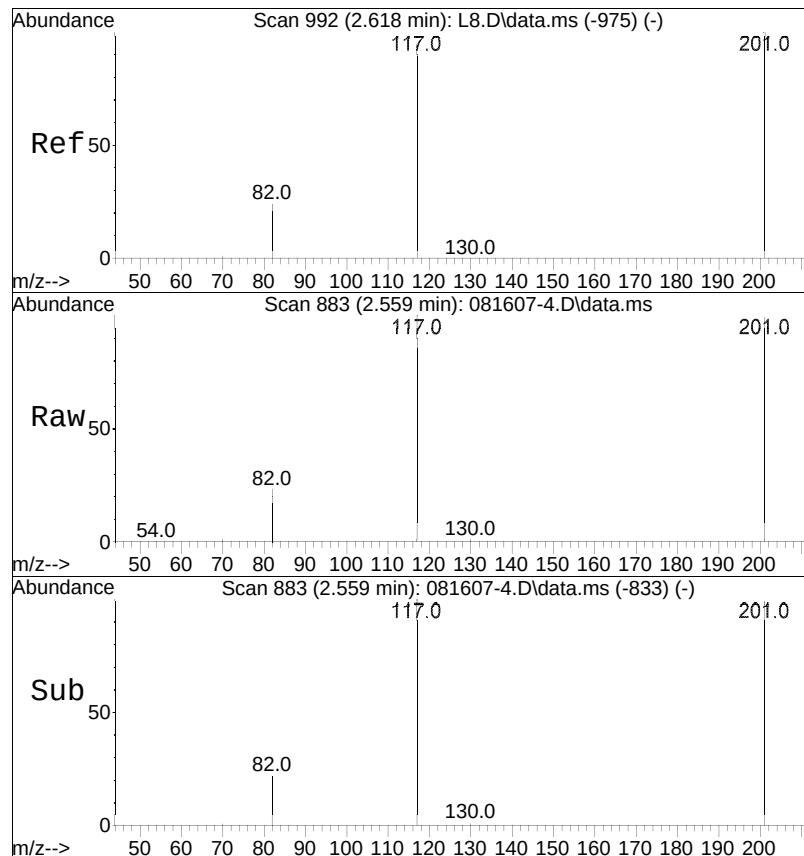




#5
 Bis(2-chloroethyl)ether
 Concen: 1677.06 ng/ml
 RT: 2.162 min Scan# 706
 Delta R.T. 0.017 min
 Lab File: 081607-4.D
 Acq: 27 Jun 2025 07:33 pm

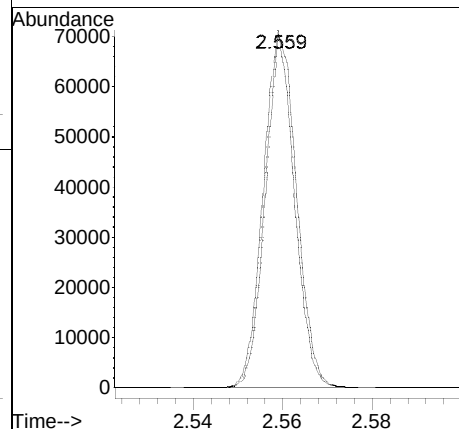
Tgt Ion	Ratio	Lower	Upper
93	100		
63	84.1	62.9	94.3

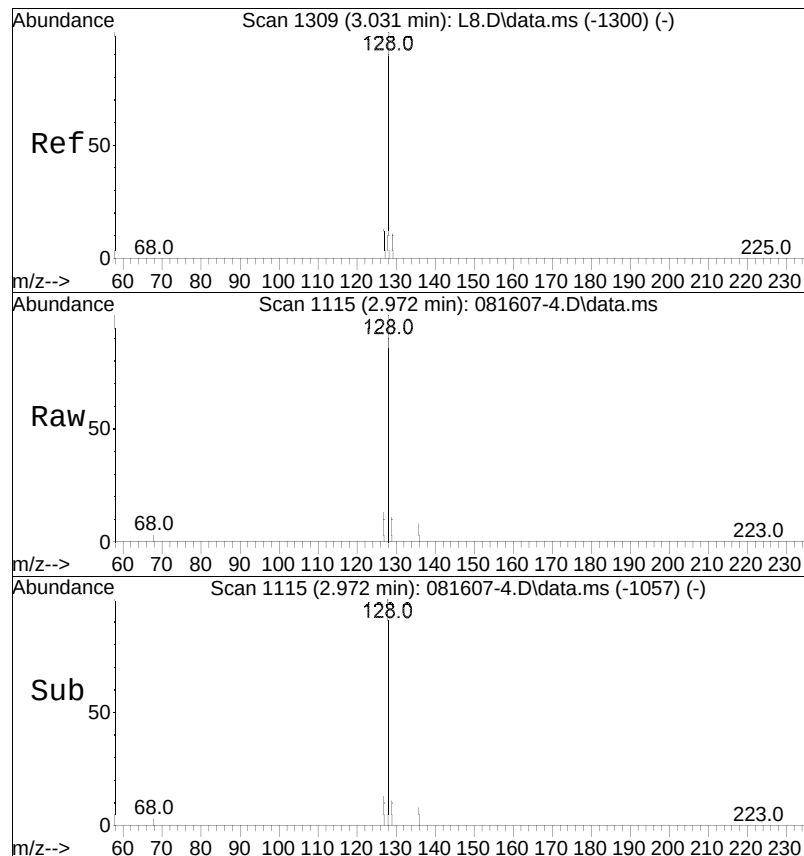




#7
 Hexachloroethane
 Concen: 1019.15 ng/ml
 RT: 2.559 min Scan# 883
 Delta R.T. 0.016 min
 Lab File: 081607-4.D
 Acq: 27 Jun 2025 07:33 pm

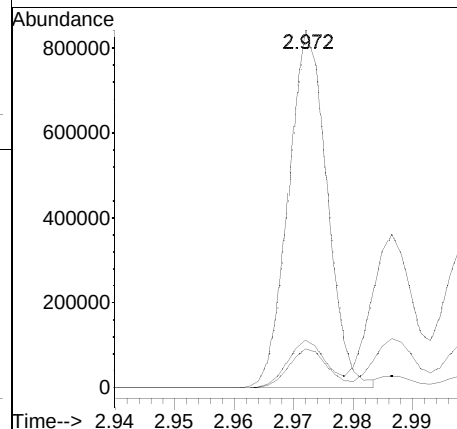
Tgt Ion	Ratio	Lower	Upper
117	100		
201	100.3	82.9	124.3

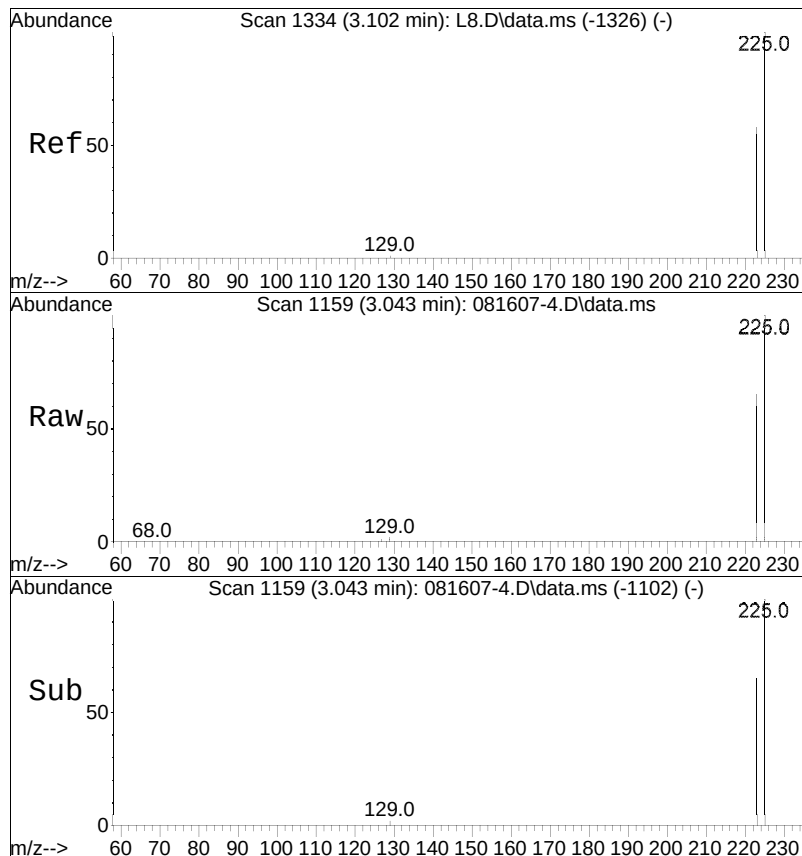




#10
 Naphthalene
 Concen: 1347.09 ng/ml
 RT: 2.972 min Scan# 1115
 Delta R.T. 0.013 min
 Lab File: 081607-4.D
 Acq: 27 Jun 2025 07:33 pm

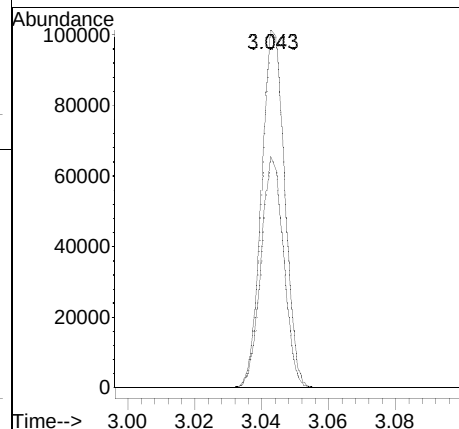
Tgt	Ion	Ratio	Resp	Lower	Upper
128	100		378675		
129	11.3		8.8	13.2	
127	13.5		10.6	15.8	

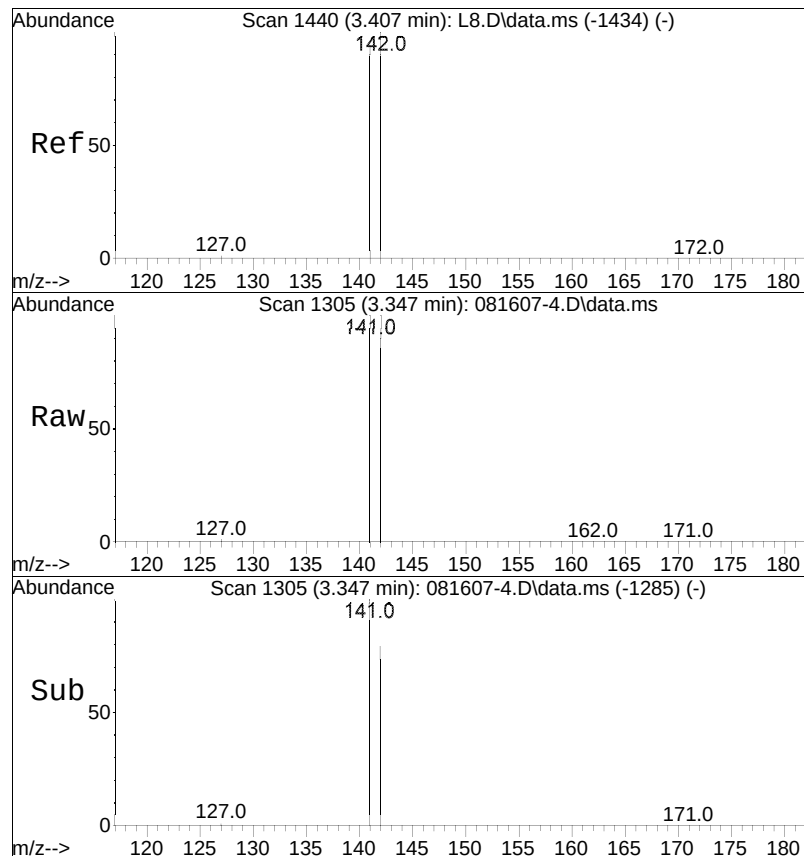




#11
 Hexachlorobutadiene
 Concen: 901.61 ng/ml
 RT: 3.043 min Scan# 1159
 Delta R.T. 0.012 min
 Lab File: 081607-4.D
 Acq: 27 Jun 2025 07:33 pm

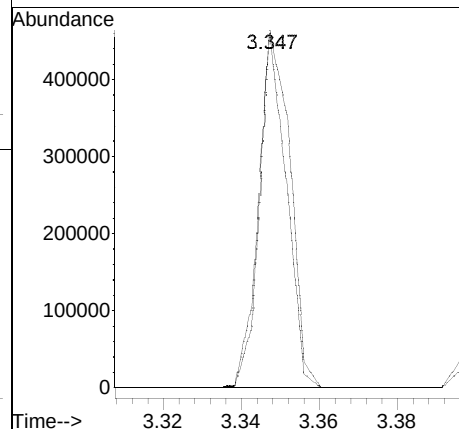
Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.3	50.2	75.4

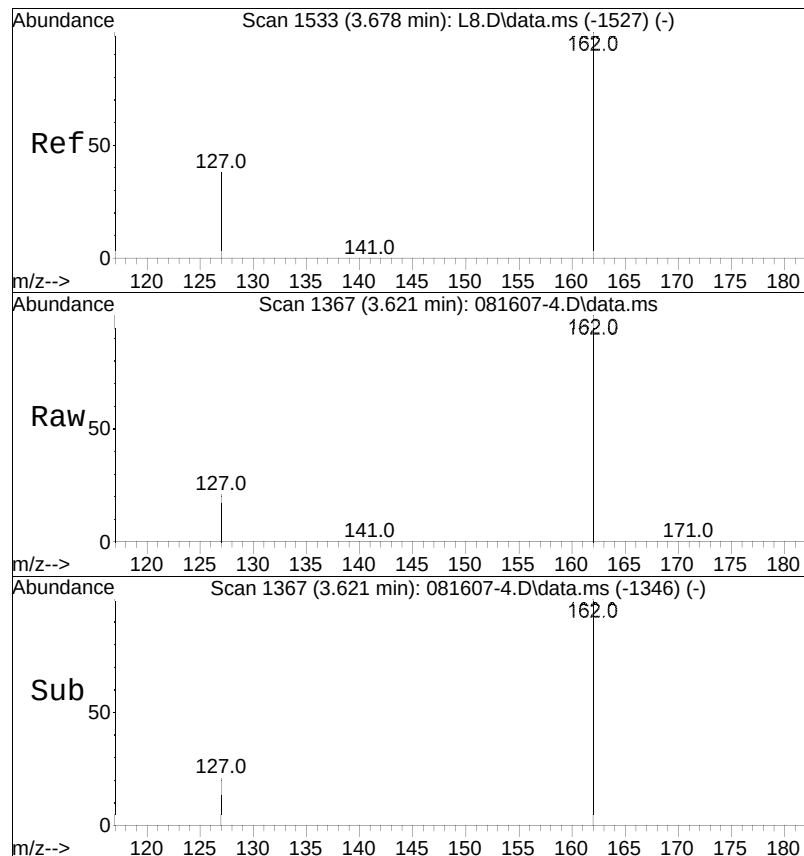




#12
 2-Methylnaphthalene
 Concen: 1373.63 ng/ml
 RT: 3.347 min Scan# 1305
 Delta R.T. 0.009 min
 Lab File: 081607-4.D
 Acq: 27 Jun 2025 07:33 pm

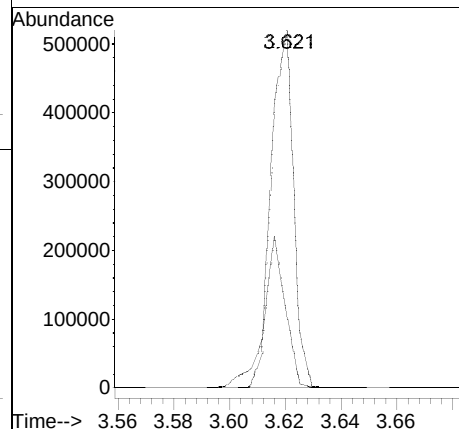
Tgt Ion:	142	Resp:	245953
Ion Ratio	Lower	Upper	
142	100		
141	91.5	73.6	110.4

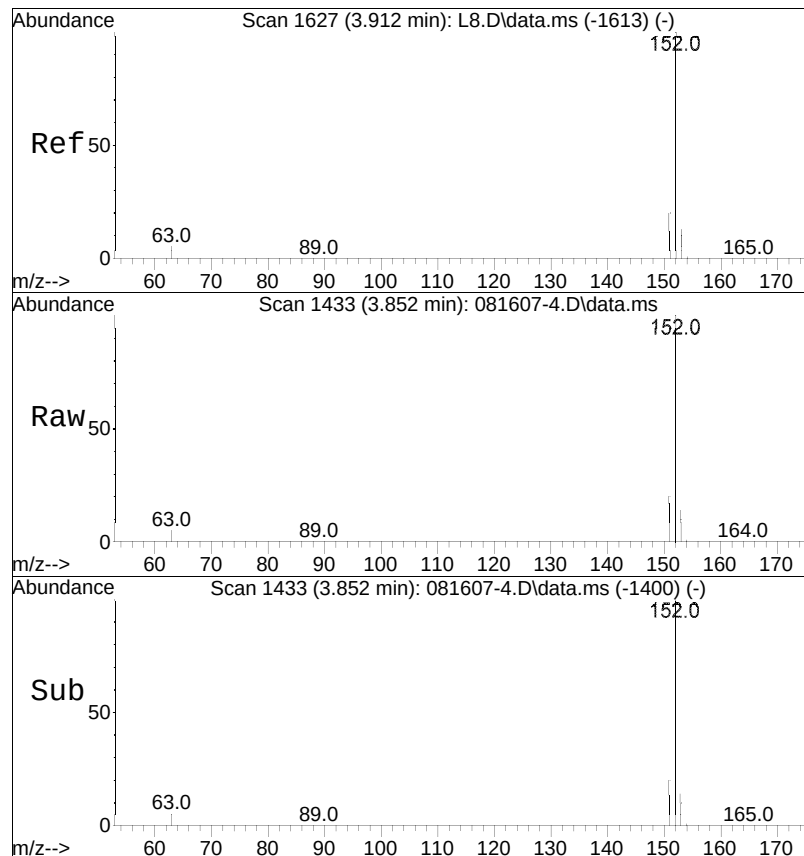




#15
 2-Chloronaphthalene
 Concen: 1448.58 ng/ml
 RT: 3.621 min Scan# 1367
 Delta R.T. 0.014 min
 Lab File: 081607-4.D
 Acq: 27 Jun 2025 07:33 pm

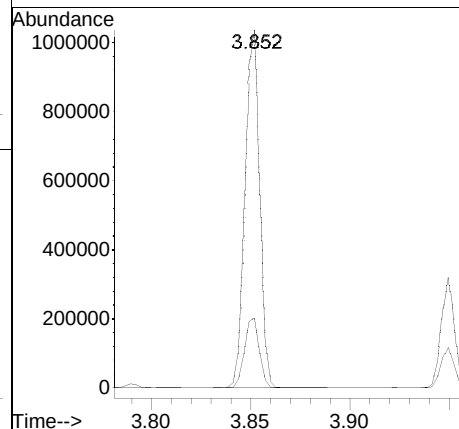
Tgt Ion:	162	Resp:	282426
Ion Ratio	Lower	Upper	
162	100		
127	41.6	29.8	44.8

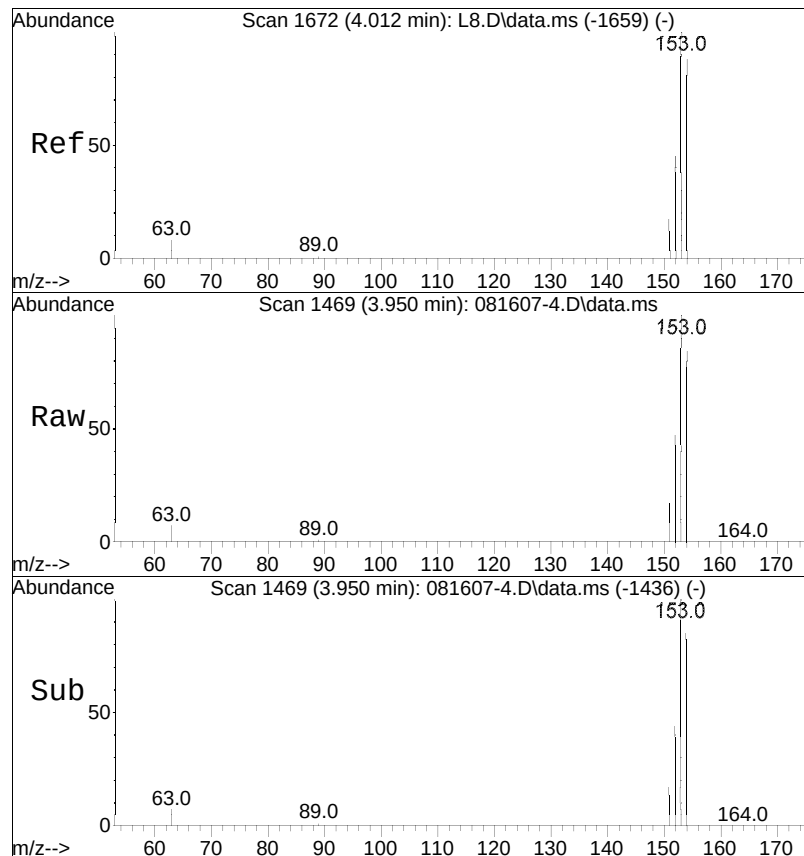




#17
 Acenaphthylene
 Concen: 1599.63 ng/ml
 RT: 3.852 min Scan# 1433
 Delta R.T. 0.009 min
 Lab File: 081607-4.D
 Acq: 27 Jun 2025 07:33 pm

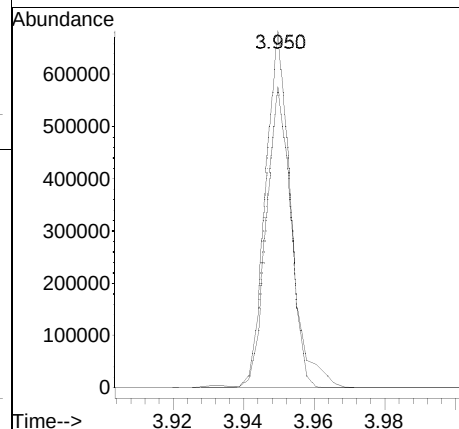
Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.2	24.2

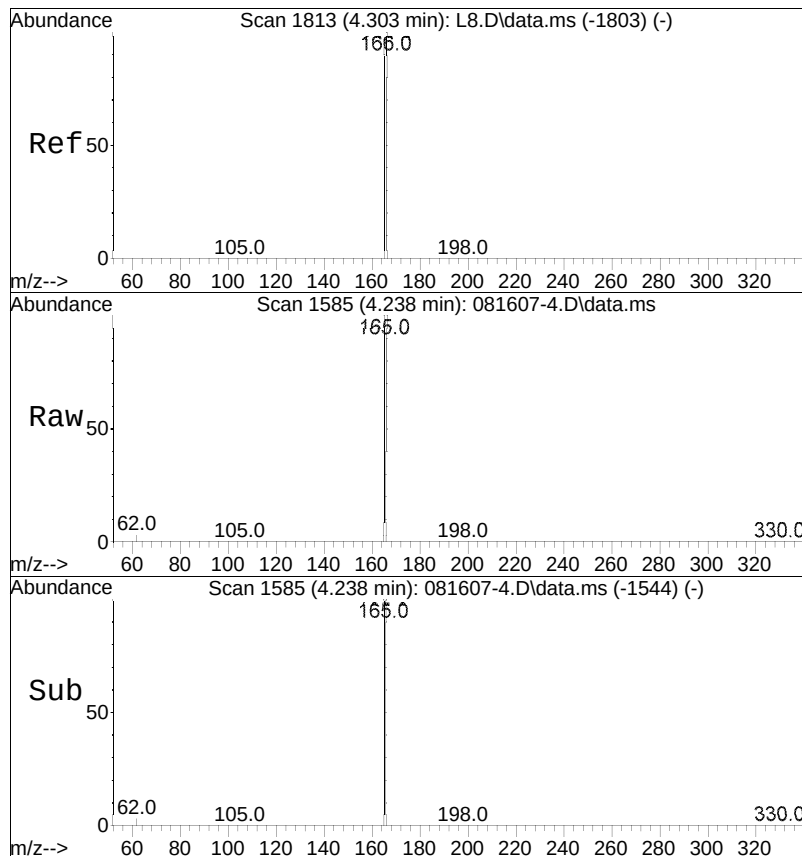




#19
 Acenaphthene
 Concen: 1507.45 ng/ml
 RT: 3.950 min Scan# 1469
 Delta R.T. 0.009 min
 Lab File: 081607-4.D
 Acq: 27 Jun 2025 07:33 pm

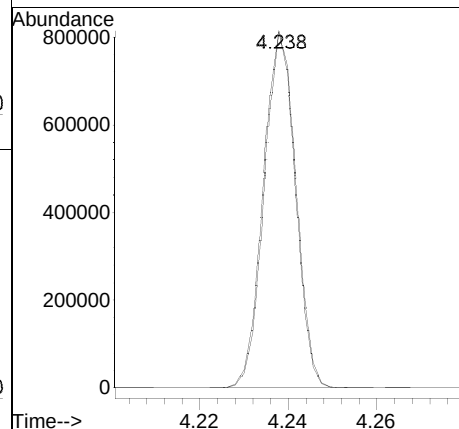
Tgt Ion	Ratio	Lower	Upper
153	100		
154	91.8	72.0	108.0

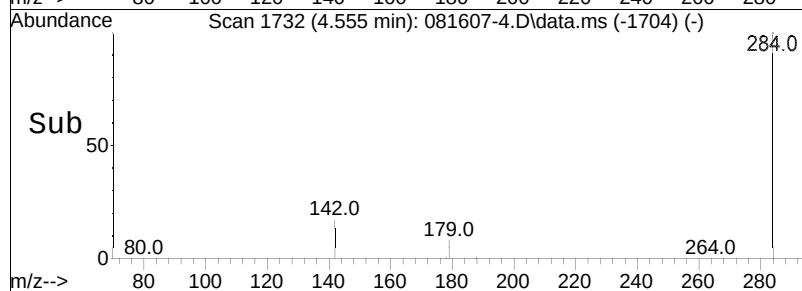
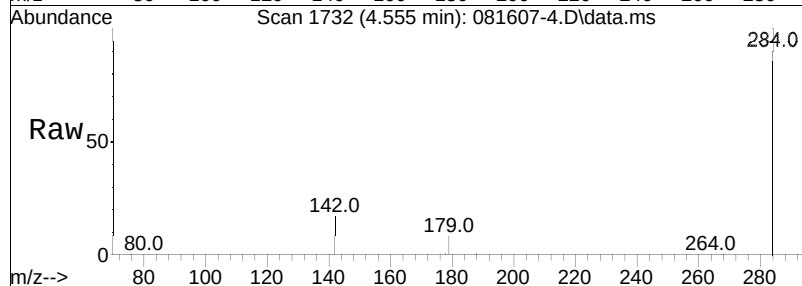
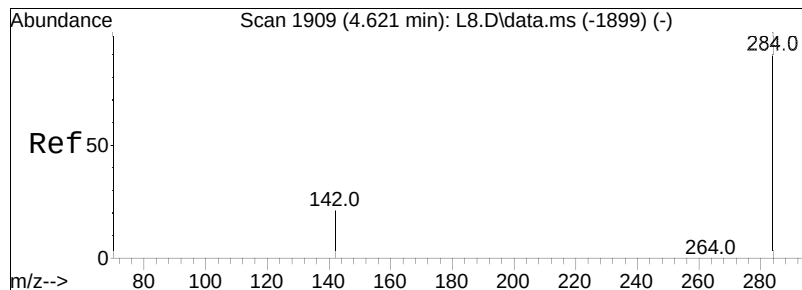




#21
 Fluorene
 Concen: 1578.85 ng/ml
 RT: 4.238 min Scan# 1585
 Delta R.T. 0.006 min
 Lab File: 081607-4.D
 Acq: 27 Jun 2025 07:33 pm

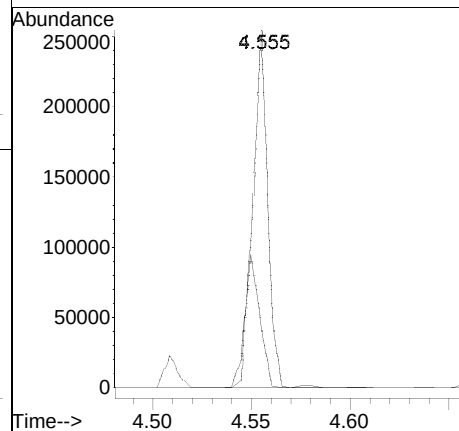
Tgt Ion:	166	Resp:	402695
Ion Ratio	Lower	Upper	
166	100		
165	101.0	81.5	122.3

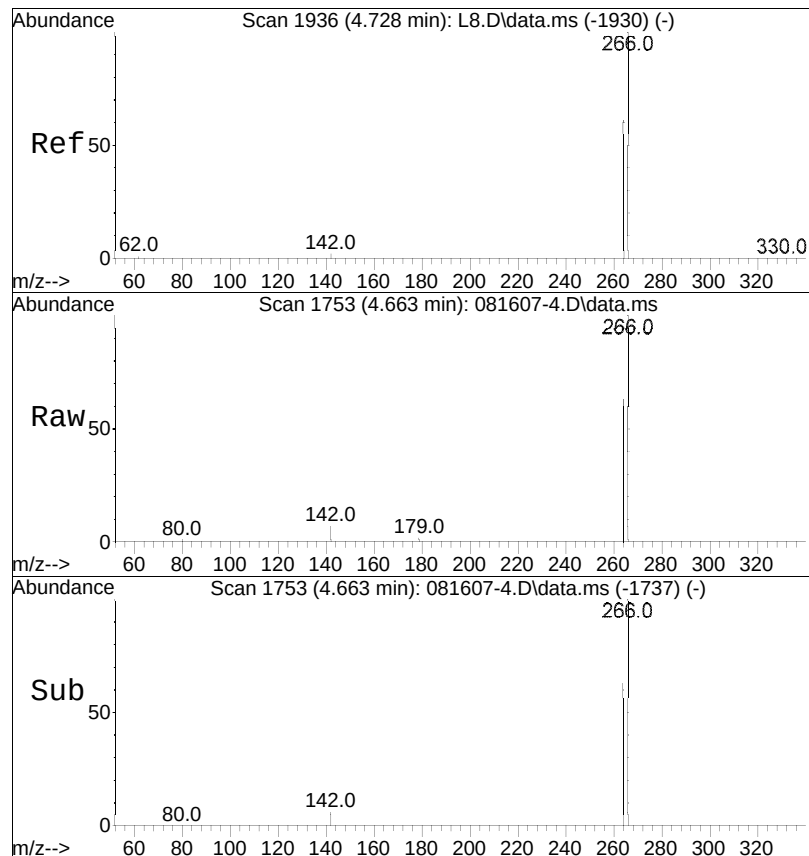




#25
Hexachlorobenzene
Concen: 1390.88 ng/ml
RT: 4.555 min Scan# 1732
Delta R.T. 0.006 min
Lab File: 081607-4.D
Acq: 27 Jun 2025 07:33 pm

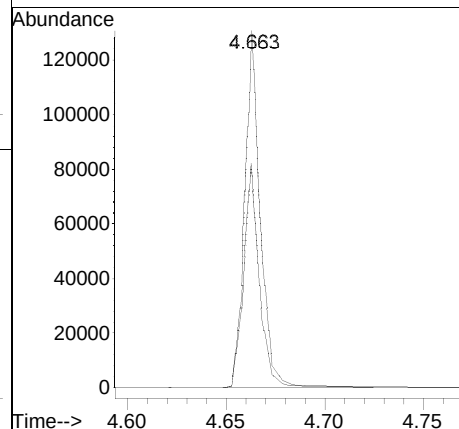
Tgt Ion	Ratio	Lower	Upper
284	100		
142	38.2	28.8	43.2

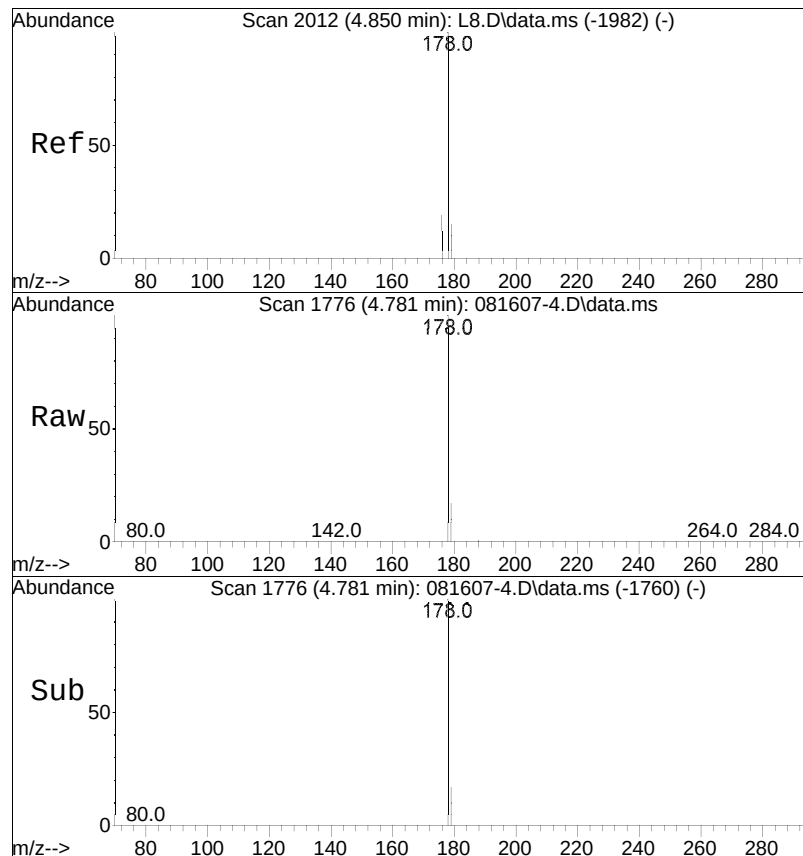




#26
 Pentachlorophenol
 Concen: 1764.01 ng/ml
 RT: 4.663 min Scan# 1753
 Delta R.T. 0.000 min
 Lab File: 081607-4.D
 Acq: 27 Jun 2025 07:33 pm

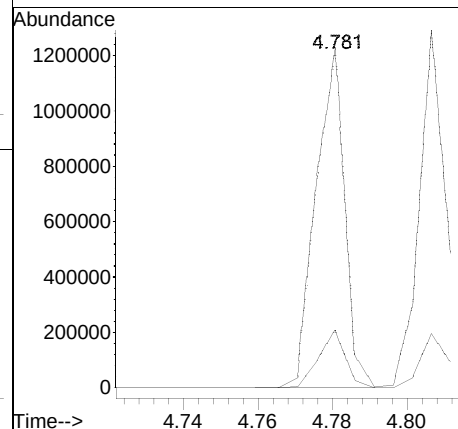
Tgt Ion	Ratio	Lower	Upper
266	100		
264	63.3	50.6	76.0

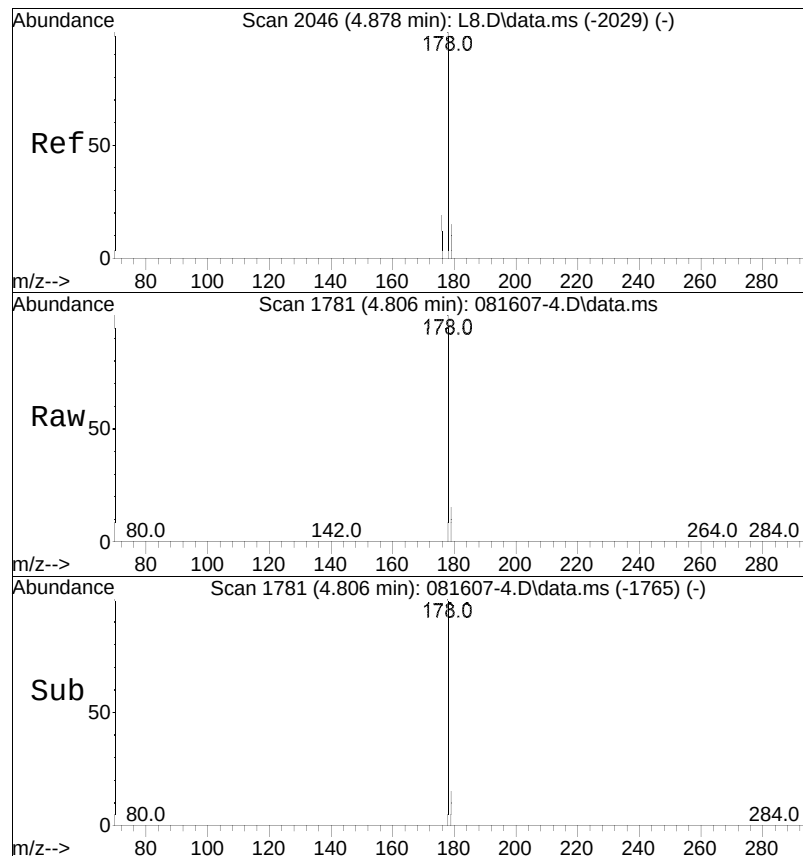




#27
 Phenanthrene
 Concen: 1640.34 ng/ml
 RT: 4.781 min Scan# 1776
 Delta R.T. 0.000 min
 Lab File: 081607-4.D
 Acq: 27 Jun 2025 07:33 pm

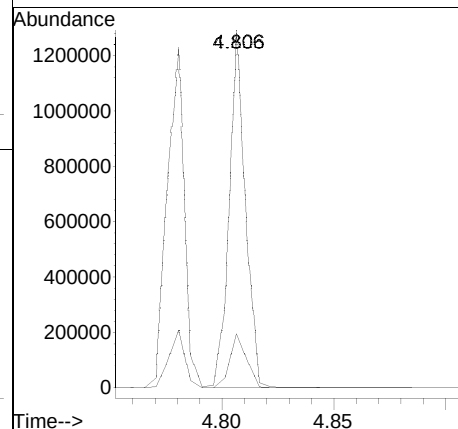
Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.8	12.4	18.6

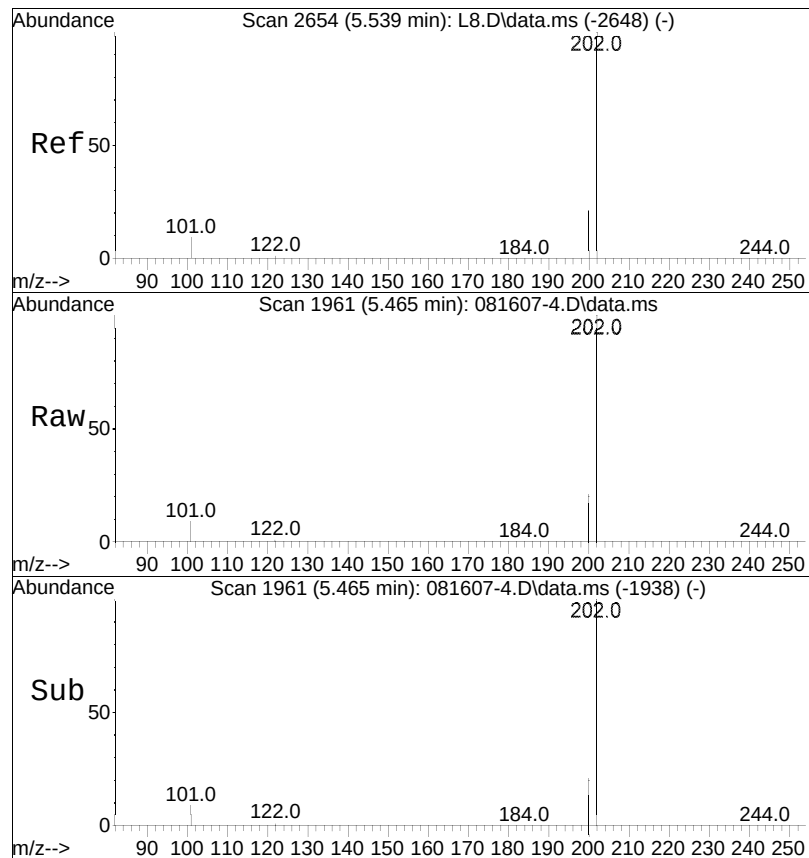




#28
 Anthracene
 Concen: 1606.77 ng/ml
 RT: 4.806 min Scan# 1781
 Delta R.T. 0.000 min
 Lab File: 081607-4.D
 Acq: 27 Jun 2025 07:33 pm

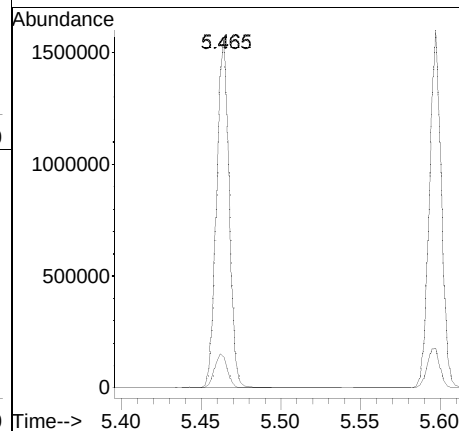
Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.8	12.2	18.2

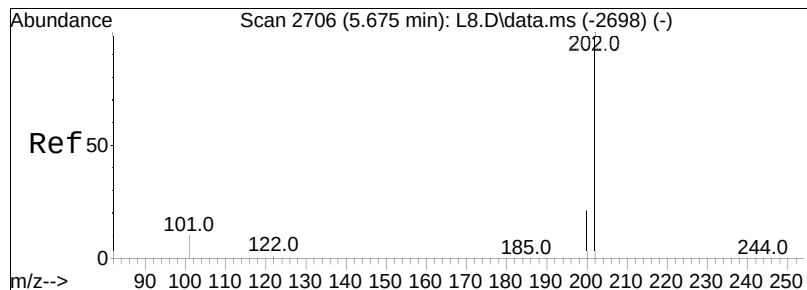




#29
 Fluoranthene
 Concen: 1646.60 ng/ml
 RT: 5.465 min Scan# 1961
 Delta R.T. -0.024 min
 Lab File: 081607-4.D
 Acq: 27 Jun 2025 07:33 pm

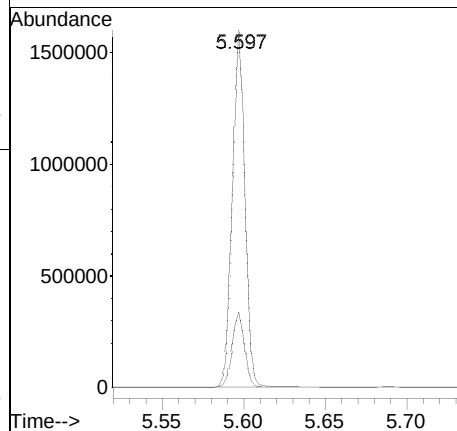
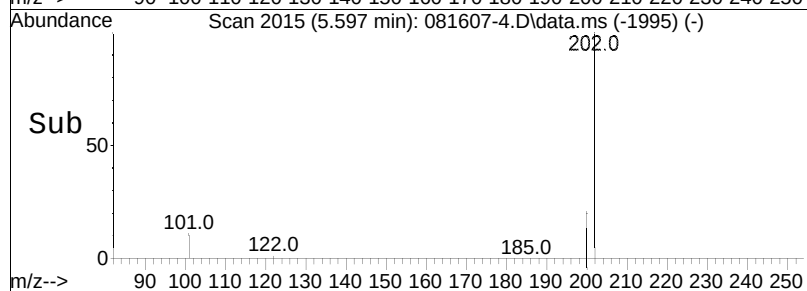
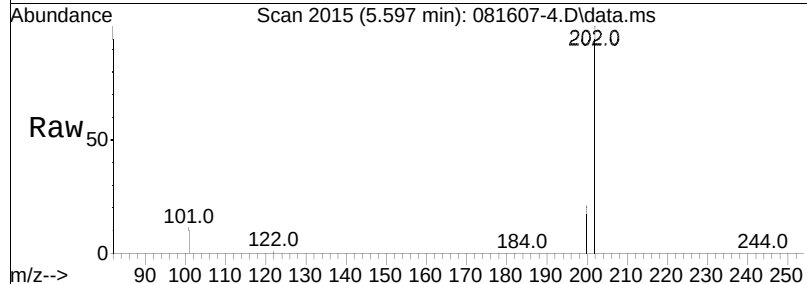
Tgt	Ion	Ratio	Resp	Lower	Upper
202	100		865668		
101	9.8			7.5	11.3

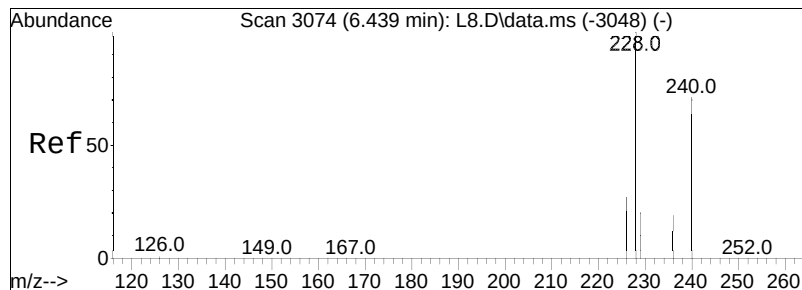




#30
 Pyrene
 Concen: 1517.97 ng/ml
 RT: 5.597 min Scan# 2015
 Delta R.T. -0.031 min
 Lab File: 081607-4.D
 Acq: 27 Jun 2025 07:33 pm

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.0	25.4





#34

Benzo[a]anthracene

Concen: 1916.79 ng/ml

RT: 6.341 min Scan# 2400

Delta R.T. -0.064 min

Lab File: 081607-4.D

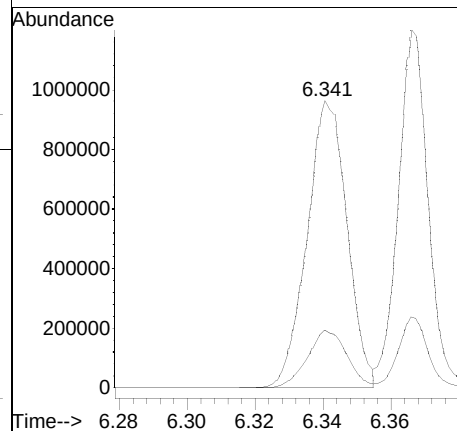
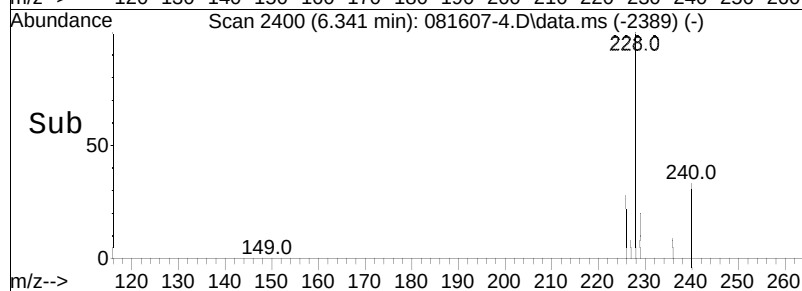
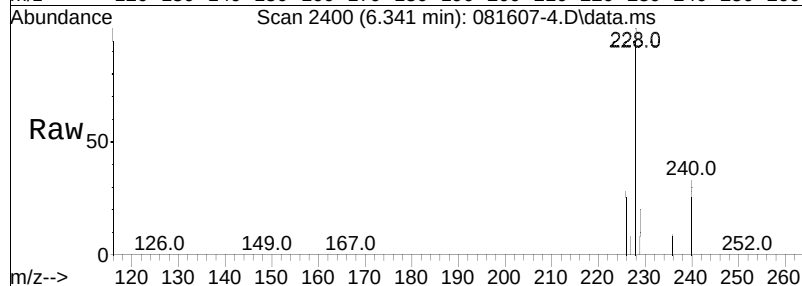
Acq: 27 Jun 2025 07:33 pm

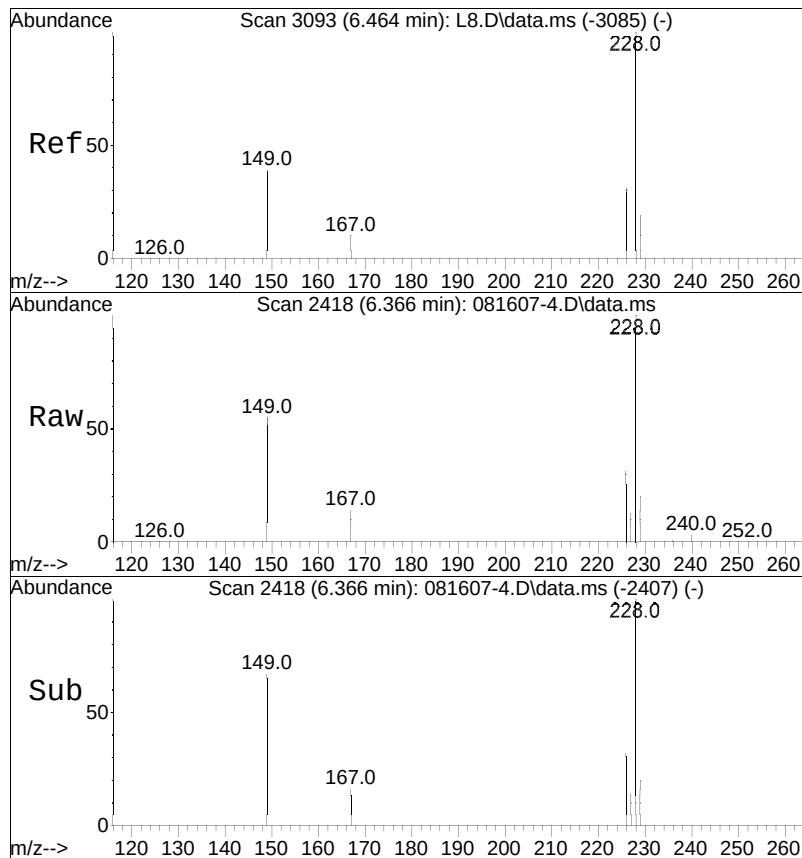
Tgt Ion:228 Resp: 785308

Ion Ratio Lower Upper

228 100

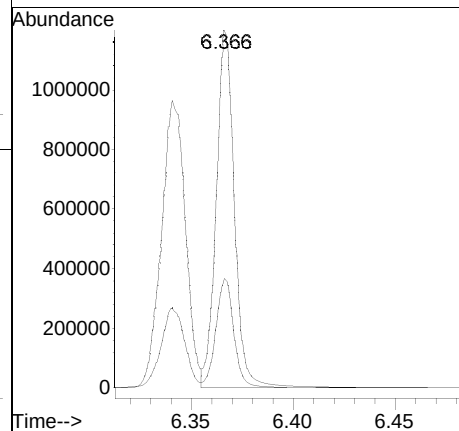
229 19.8 15.8 23.6

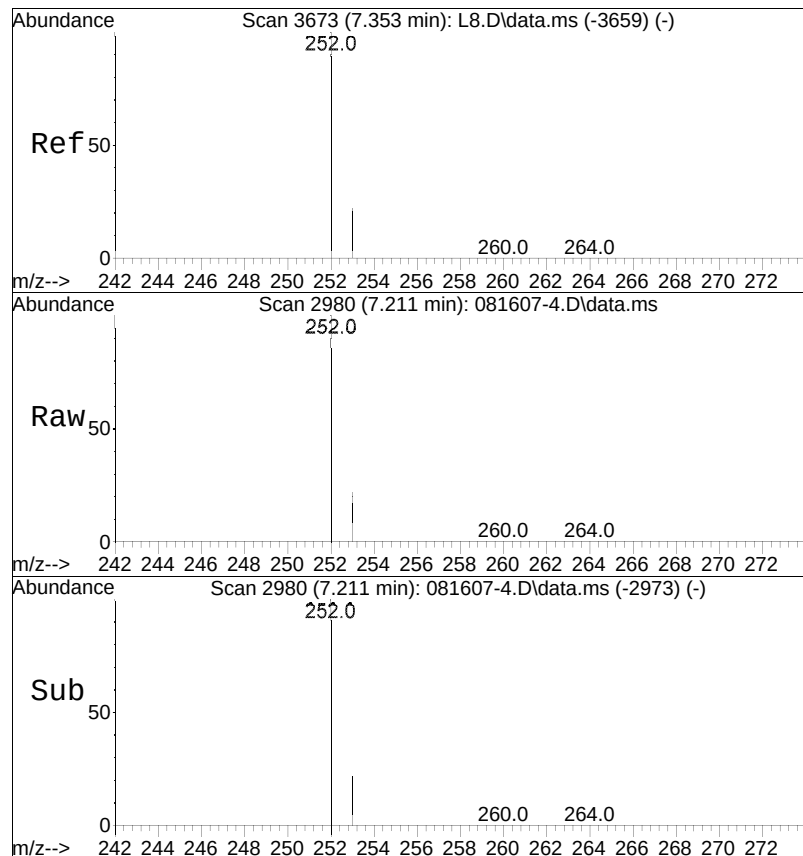




#36
 Chrysene
 Concen: 1877.63 ng/ml
 RT: 6.366 min Scan# 2418
 Delta R.T. -0.064 min
 Lab File: 081607-4.D
 Acq: 27 Jun 2025 07:33 pm

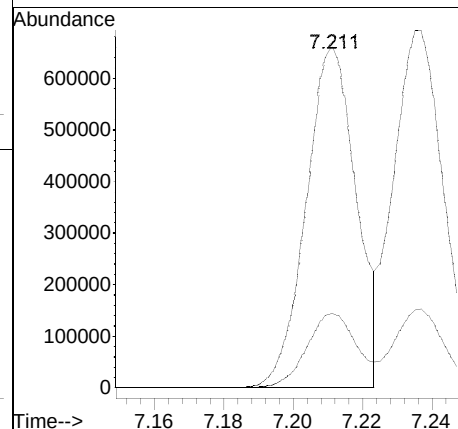
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.6	37.0

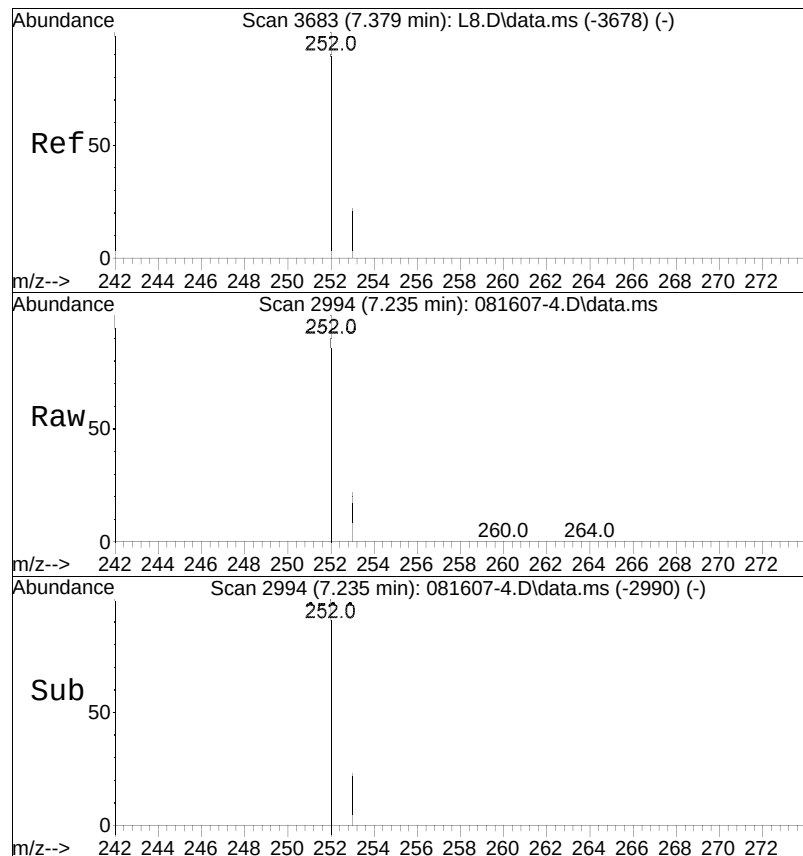




#39
 Benzo[b]fluoranthene
 Concen: 2160.95 ng/ml
 RT: 7.211 min Scan# 2980
 Delta R.T. -0.068 min
 Lab File: 081607-4.D
 Acq: 27 Jun 2025 07:33 pm

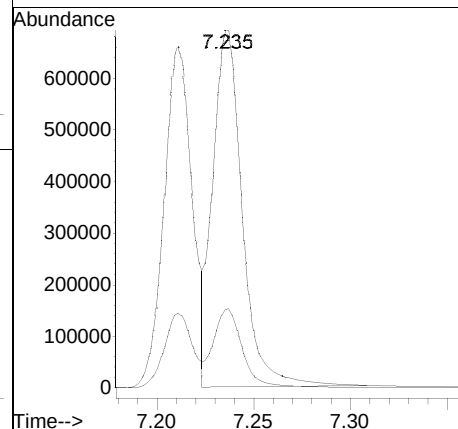
Tgt	Ion	Ratio	Lower	Upper
252	100			
253	21.8	18.1	27.1	

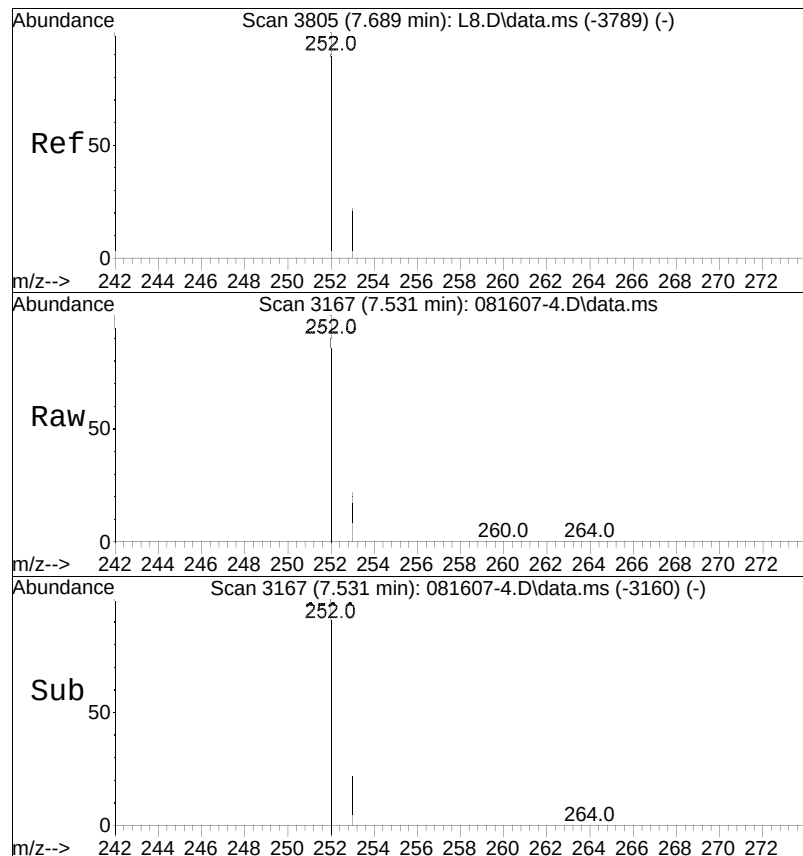




#40
 Benzo[k]fluoranthene
 Concen: 2064.67 ng/ml
 RT: 7.235 min Scan# 2994
 Delta R.T. -0.073 min
 Lab File: 081607-4.D
 Acq: 27 Jun 2025 07:33 pm

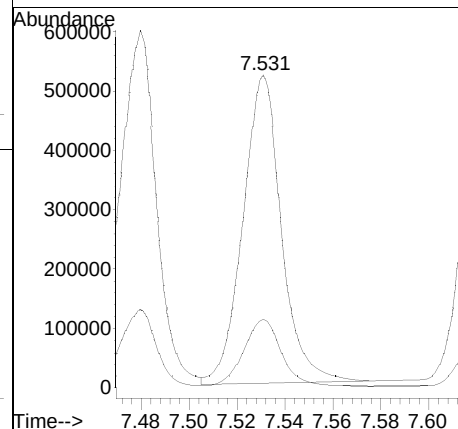
Tgt	Ion	Ratio	Lower	Upper
252	100			
253	21.9	17.0	25.4	

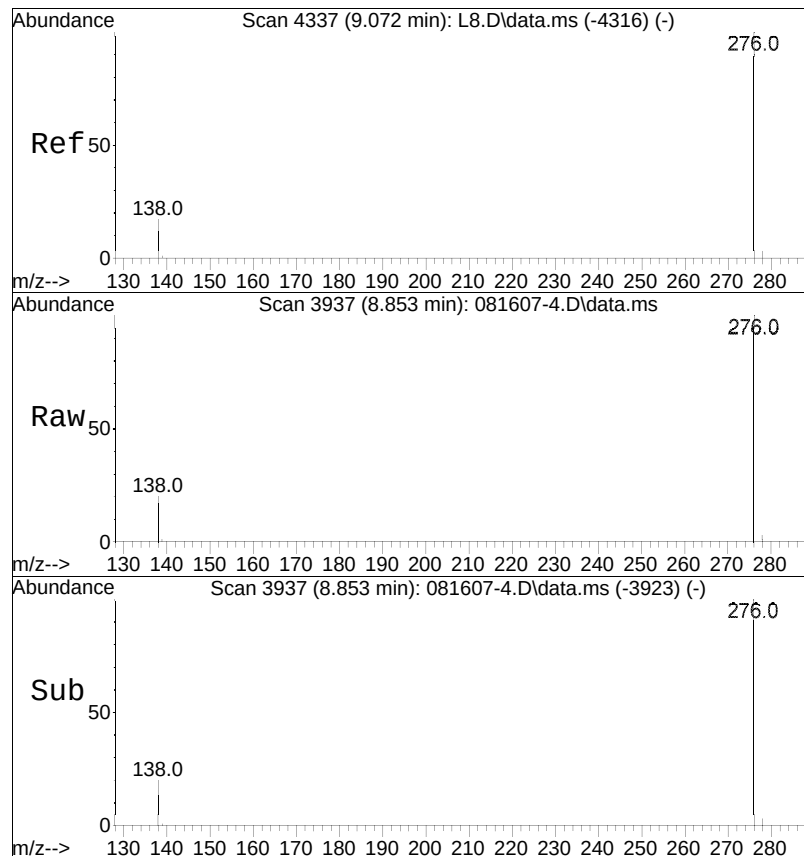




#41
 Benzo[a]pyrene
 Concen: 1987.15 ng/ml
 RT: 7.531 min Scan# 3167
 Delta R.T. -0.068 min
 Lab File: 081607-4.D
 Acq: 27 Jun 2025 07:33 pm

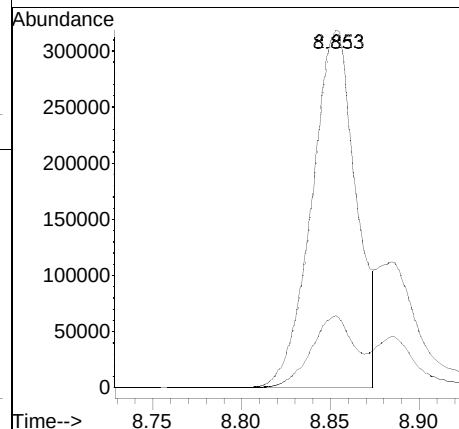
Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.4	26.0

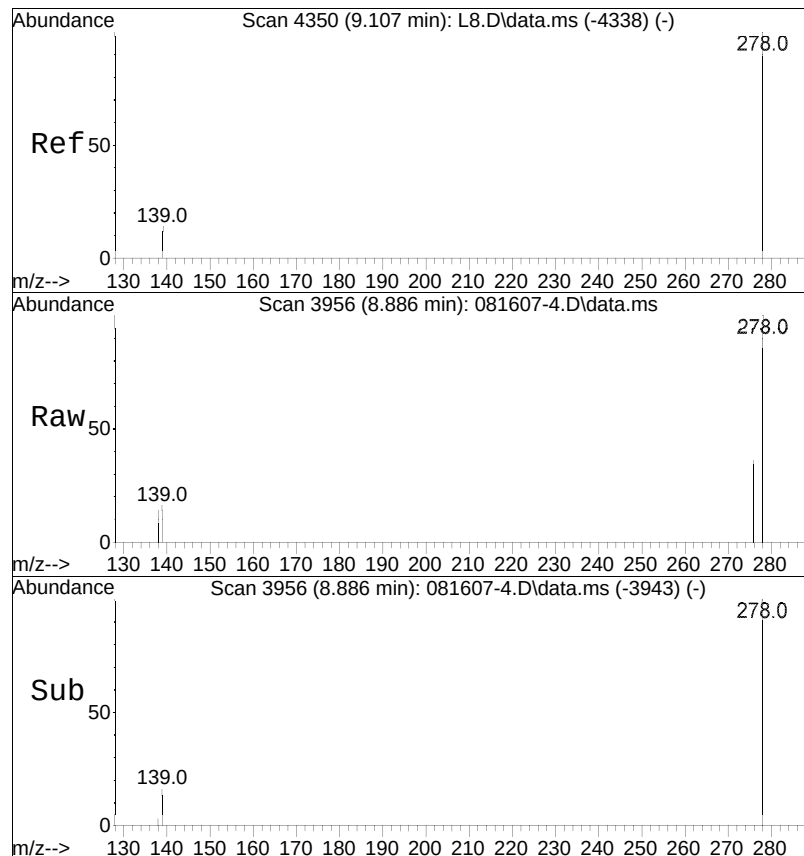




#42
 Indeno[1,2,3-cd]pyrene
 Concen: 1990.77 ng/ml
 RT: 8.853 min Scan# 3937
 Delta R.T. -0.057 min
 Lab File: 081607-4.D
 Acq: 27 Jun 2025 07:33 pm

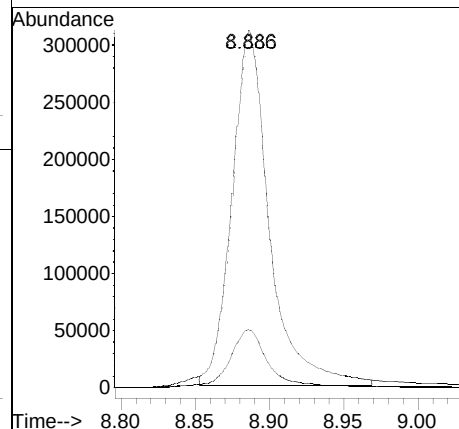
Tgt Ion	Ratio	Lower	Upper
276	100		
138	19.2	14.4	21.6

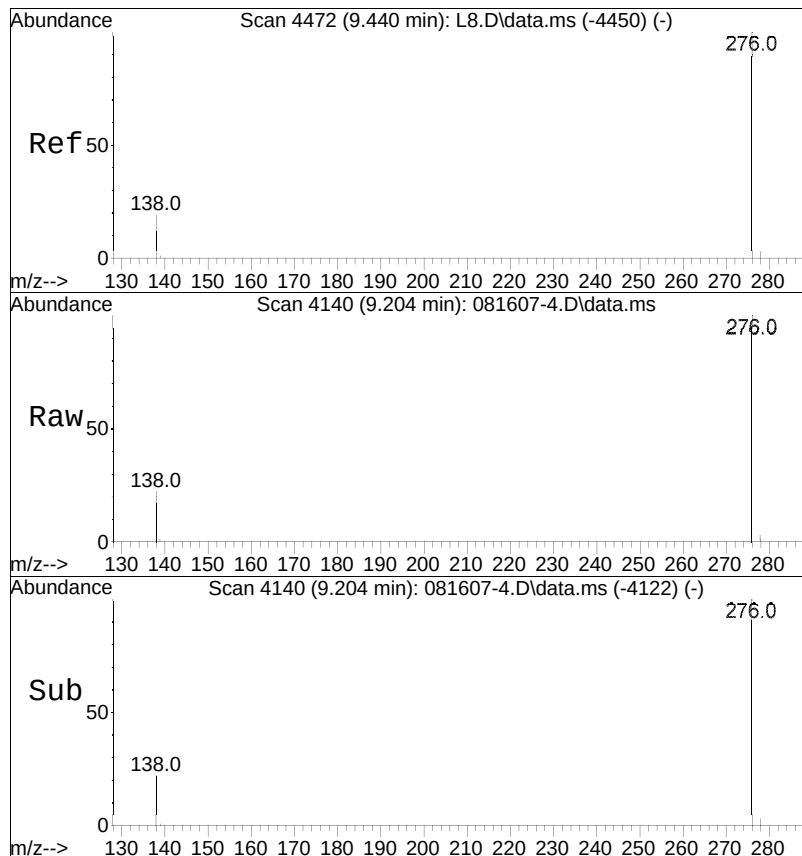




#43
 Dibenzo[a,h]anthracene
 Concen: 1978.89 ng/ml M6
 RT: 8.886 min Scan# 3956
 Delta R.T. -0.058 min
 Lab File: 081607-4.D
 Acq: 27 Jun 2025 07:33 pm

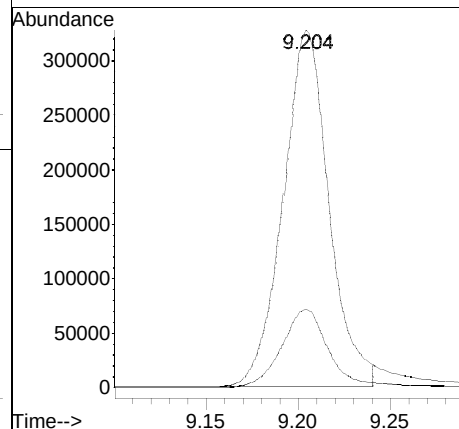
Tgt Ion	Ratio	Lower	Upper
278	100		
139	16.7	12.1	18.1





#44
Benzo[g,h,i]perylene
Concen: 2074.67 ng/ml
RT: 9.204 min Scan# 4140
Delta R.T. -0.050 min
Lab File: 081607-4.D
Acq: 27 Jun 2025 07:33 pm

Tgt	Ion	276	Resp:	560990
Ion	Ratio	Lower	Upper	
276	100			
138	22.1	16.0	24.0	

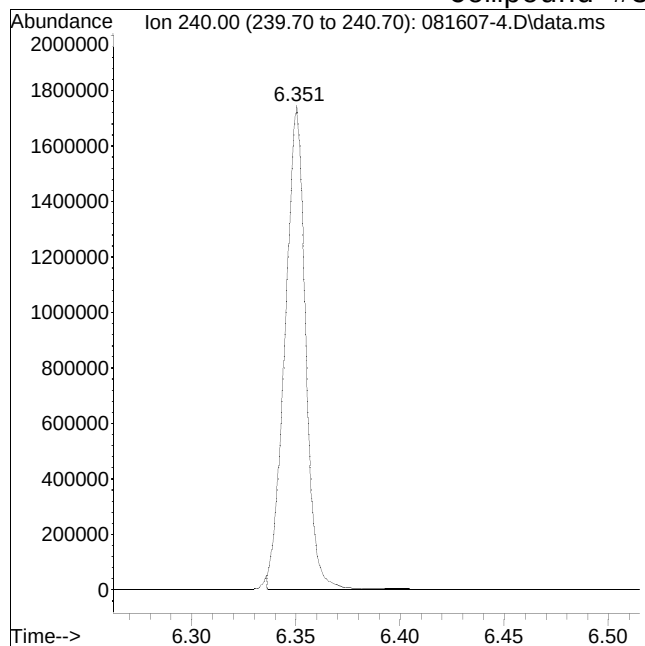


Manual Integration Report

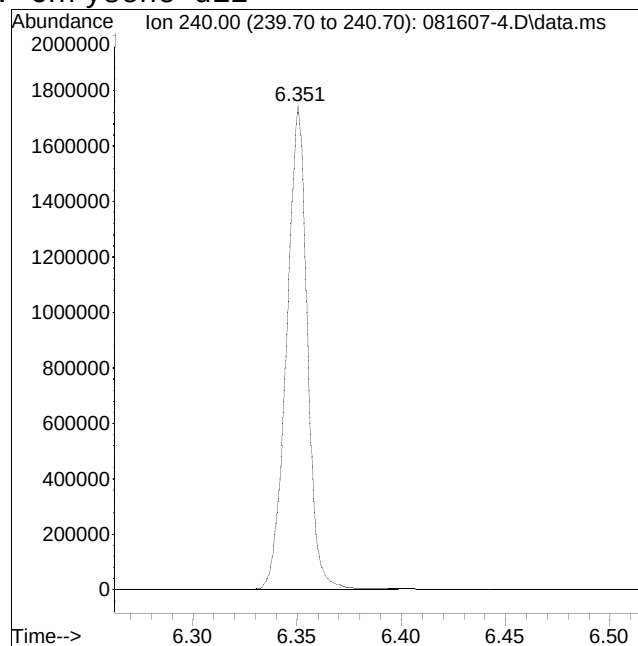
Data Path : I:\8270SIM\sv119\250627nRV01
Data File : 081607-4.D
Date Inj'd : 6/27/2025 7:33 pm
Sample : WG2081607-4,32,,DV

Method : SIM-RVT_250625_sv119.M
Operator : sv119:dv
Instrument : SV119
Quant Date : 6/27/2025 7:46 pm

Compound #33: Chrysene-d12



Original Peak Response = 1197336



Manual Peak Response = 1208078 M4

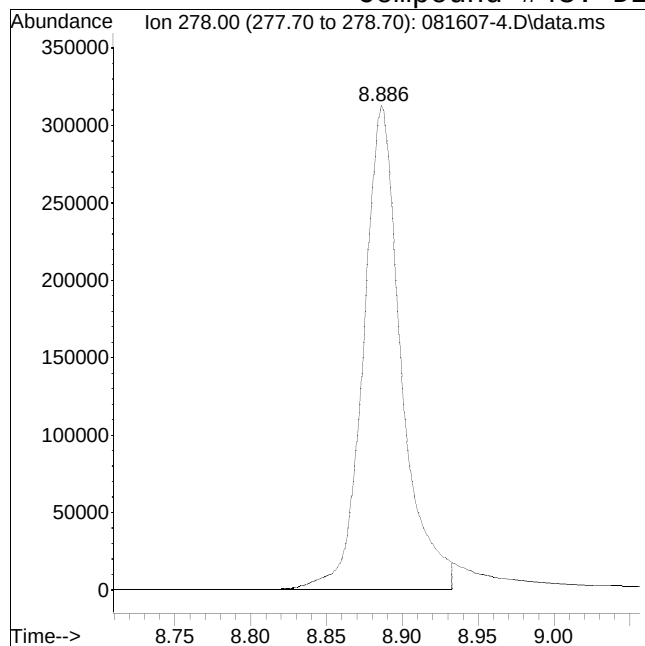
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\8270SIM\sv119\250627nRV01
Data File : 081607-4.D
Date Inj'd : 6/27/2025 7:33 pm
Sample : WG2081607-4,32,,DV

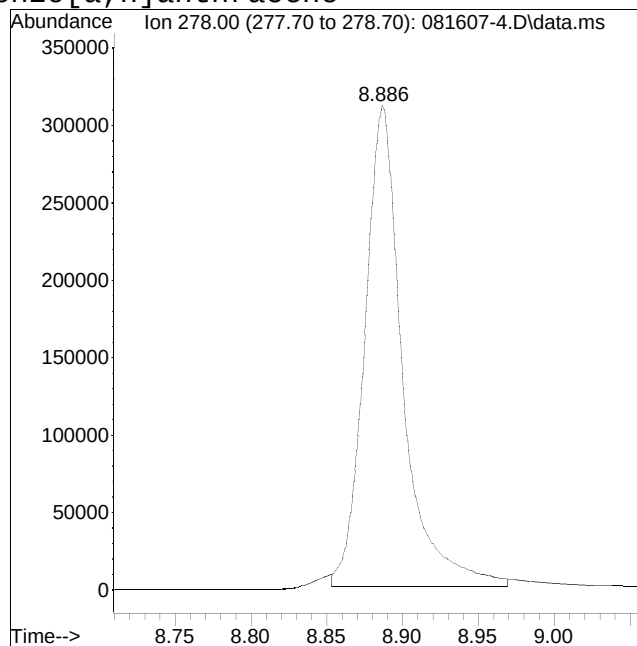
Method : SIM-RVT_250625_sv119.M
Operator : sv119:dv
Instrument : SV119
Quant Date : 6/27/2025 7:46 pm

Compound #43: Dibenzo[a,h]anthracene



Original Peak Response = 543458

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 542929 M6

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250627nRVT\
 Data File : 081607-5.D
 Acq On : 27 Jun 2025 07:49 pm
 Operator : sv119:dv
 Sample : WG2081607-5,32,,DV
 Misc : WG2084498,WG2081607,ical22426
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 27 20:14:34 2025
 Quant Method : I:\8270sim\sv119\250627nRVT\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jun 27 16:24:54 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\250627nRVT\ccv0627n.D
 Sub List : DEFAULT - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	2.302	152	251044	4000.000	ng/ml	0.02
Standard Area 1 = 237452			Recovery	= 105.72%		
9) Naphthalene-d8	2.963	136	973803	4000.000	ng/ml	0.02
Standard Area 1 = 908349			Recovery	= 107.21%		
18) Acenaphthene-d10	3.934	164	588621	4000.000	ng/ml	0.00
Standard Area 1 = 521676			Recovery	= 112.83%		
23) Phenanthrene-d10	4.766	188	1242178	4000.000	ng/ml	0.00
Standard Area 1 = 1047157			Recovery	= 118.62%		
33) Chrysene-d12	6.351	240	1107946M4	4000.000	ng/ml	-0.06
Standard Area 1 = 1073641			Recovery	= 103.20%		
38) Perylene-d12	7.595	264	1035665	4000.000	ng/ml	-0.07
Standard Area 1 = 1075366			Recovery	= 96.31%		
System Monitoring Compounds						
3) 2-Fluorophenol	1.721	112	89544	1234.341	ng/ml	0.03
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 61.72%		
4) Phenol-d6	2.111	99	86443	959.322	ng/ml	0.02
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 47.97%		
8) Nitrobenzene-d5	2.578	82	59115	716.431	ng/ml	0.02
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 71.64%		
14) 2-Fluorobiphenyl	3.555	172	175420	803.891	ng/ml	0.00
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 80.39%		
22) 2,4,6-Tribromophenol	4.374	330	46694	1381.656	ng/ml	0.00
Spiked Amount 2000.000	Range 15 - 110		Recovery	= 69.08%		
32) 4-Terphenyl-d14	5.688	244	259726	756.312	ng/ml	-0.04
Spiked Amount 1000.000	Range 30 - 130		Recovery	= 75.63%		
Target Compounds						
						Qvalue
5) Bis(2-chloroethyl)ether	2.165	93	125311	1600.628	ng/ml	94
7) Hexachloroethane	2.559	117	29730	922.362	ng/ml	97
10) Naphthalene	2.972	128	346122	1308.758	ng/ml	99
11) Hexachlorobutadiene	3.045	225	42033	847.274	ng/ml	100
12) 2-Methylnaphthalene	3.347	142	226719	1345.880	ng/ml	99
15) 2-Chloronaphthalene	3.621	162	260635	1420.926	ng/ml	93
17) Acenaphthylene	3.851	152	488793	1586.359	ng/ml	100
19) Acenaphthene	3.951	153	292297	1499.747	ng/ml	99
21) Fluorene	4.238	166	373174	1588.835	ng/ml	99
25) Hexachlorobenzene	4.556	284	120089	1371.328	ng/ml	97

Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250627nRVT\
 Data File : 081607-5.D
 Acq On : 27 Jun 2025 07:49 pm
 Operator : sv119:dv
 Sample : WG2081607-5,32,,DV
 Misc : WG2084498,WG2081607,ical22426
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 27 20:14:34 2025
 Quant Method : I:\8270sim\sv119\250627nRVT\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jun 27 16:24:54 2025
 Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270sim\sv119\250627nRVT\ccv0627n.D
 Sub List : DEFAULT - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26)	Pentachlorophenol	4.663	266	65618	1725.890	ng/ml	100
27)	Phenanthrene	4.781	178	619161	1647.899	ng/ml	99
28)	Anthracene	4.807	178	623477	1643.220	ng/ml	99
29)	Fluoranthene	5.465	202	797229	1610.902	ng/ml	98
30)	Pyrene	5.597	202	814191	1563.337	ng/ml	100
34)	Benzo[a]anthracene	6.341	228	732346	1949.198	ng/ml	100
36)	Chrysene	6.368	228	689606	1909.487	ng/ml	99
39)	Benzo[b]fluoranthene	7.212	252	638845	2232.517	ng/ml	98
40)	Benzo[k]fluoranthene	7.237	252	688949	2081.721	ng/ml	98
41)	Benzo[a]pyrene	7.533	252	555147	2041.965	ng/ml	100
42)	Indeno[1,2,3-cd]pyrene	8.852	276	508062	1987.640	ng/ml	97
43)	Dibenzo[a,h]anthracene	8.890	278	480176M6	1879.157	ng/ml	
44)	Benzo[g,h,i]perylene	9.205	276	527127	2087.506	ng/ml	96

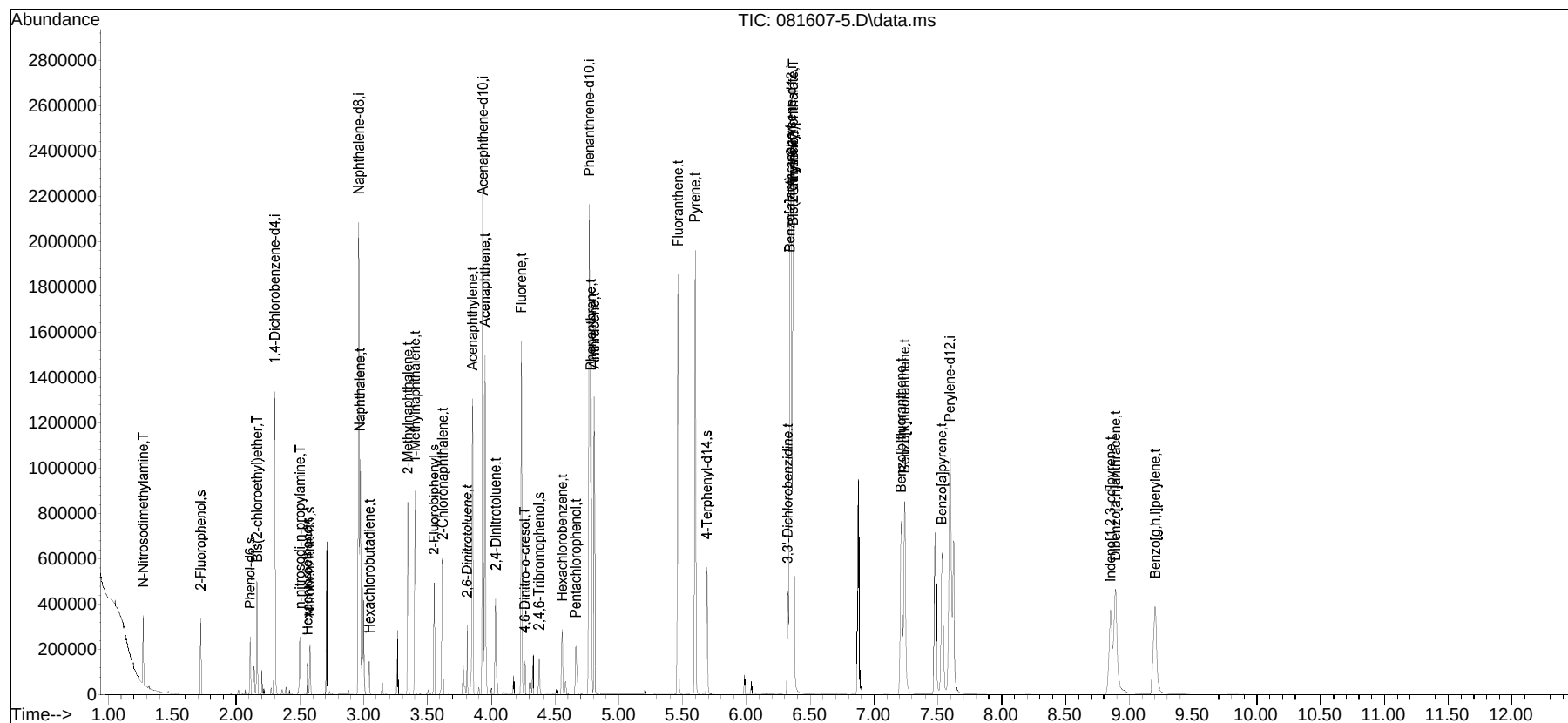
(#) = qualifier out of range (m) = manual integration (+) = signals summed

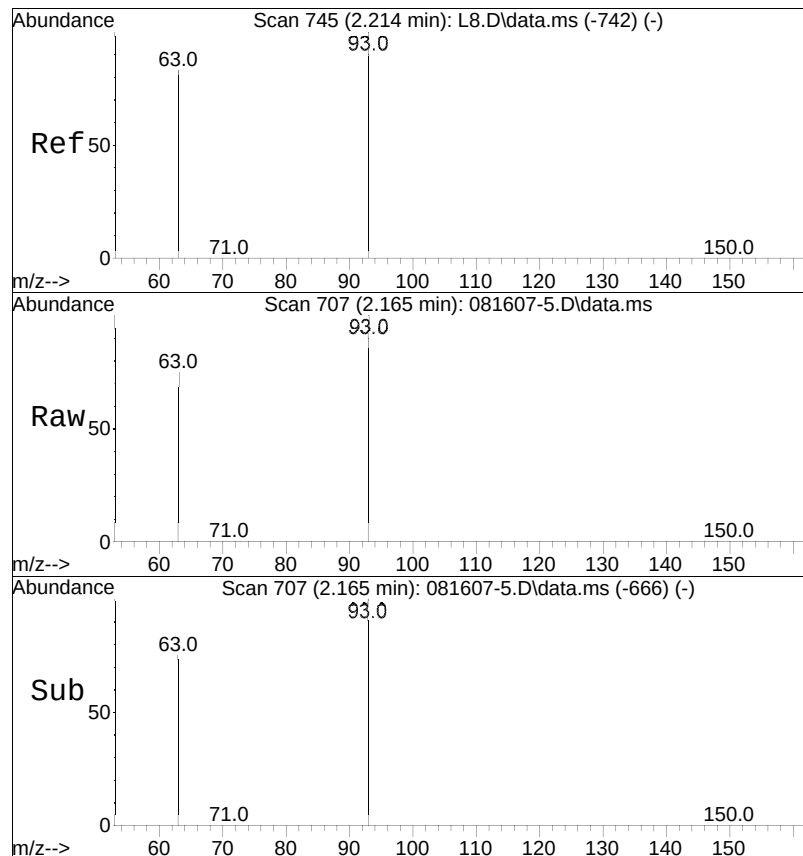
Quantitation Report (QT Reviewed)

Data Path : I:\8270SIM\sv119\250627nRVT\
 Data File : 081607-5.D
 Acq On : 27 Jun 2025 07:49 pm
 Operator : sv119:dv
 Sample : WG2081607-5,32,,DV
 Misc : WG2084498,WG2081607,ical22426
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 27 20:14:34 2025
 Quant Method : I:\8270sim\sv119\250627nRVT\SIM-RVT_250625_sv119.M
 Quant Title : Semivolatiles by GC/MS by modified 8270
 QLast Update : Fri Jun 27 16:24:54 2025
 Response via : Initial Calibration

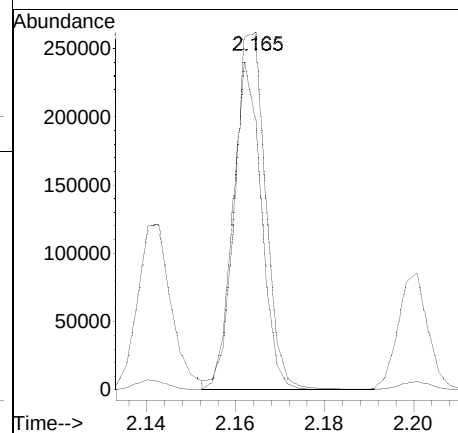
Sub List : DEFAULT - All compounds listedT\ccv0627n.D•

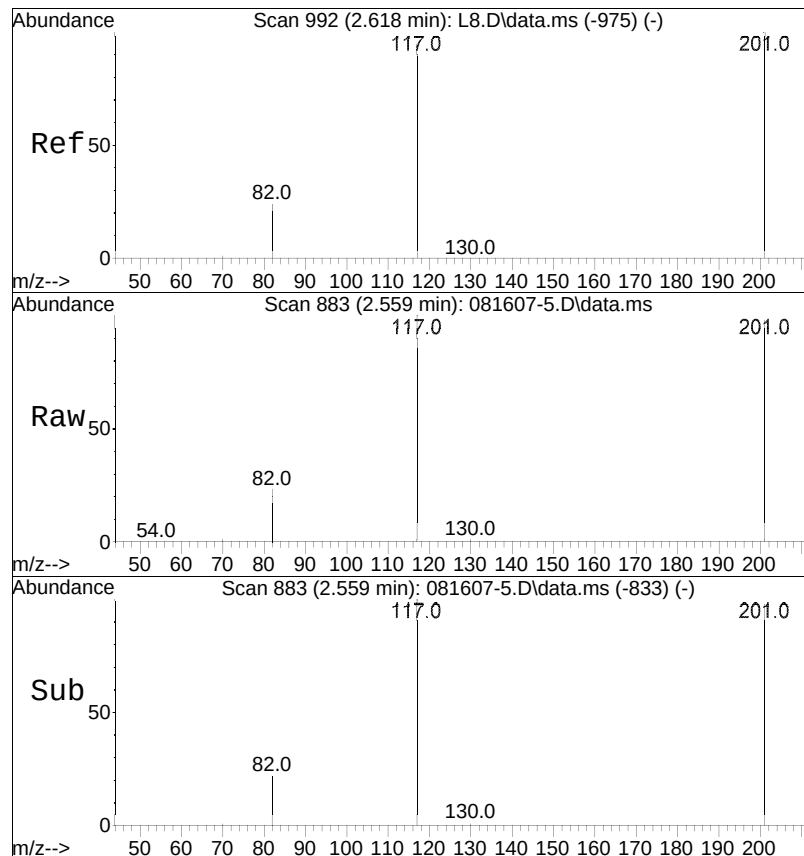




#5
 Bis(2-chloroethyl)ether
 Concen: 1600.63 ng/ml
 RT: 2.165 min Scan# 707
 Delta R.T. 0.019 min
 Lab File: 081607-5.D
 Acq: 27 Jun 2025 07:49 pm

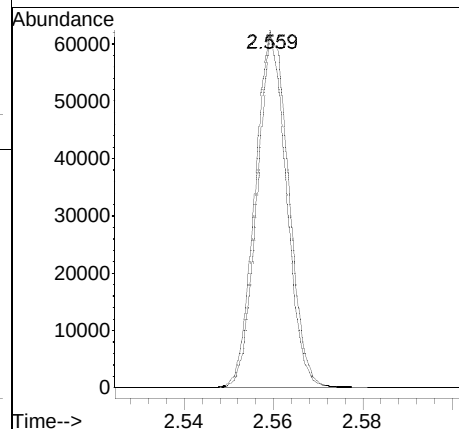
Tgt Ion	Ratio	Lower	Upper
93	100		
63	84.0	62.9	94.3

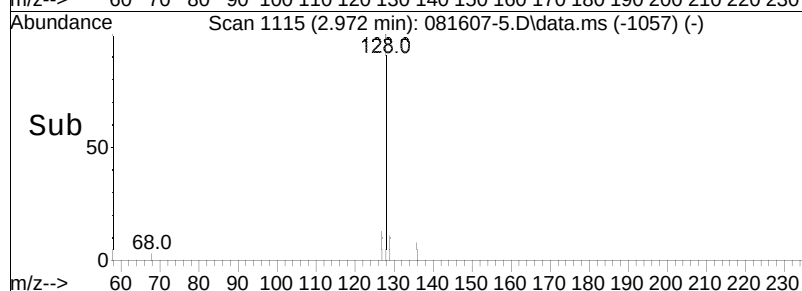
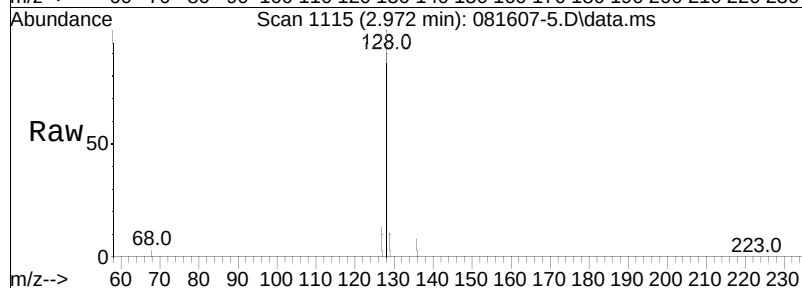
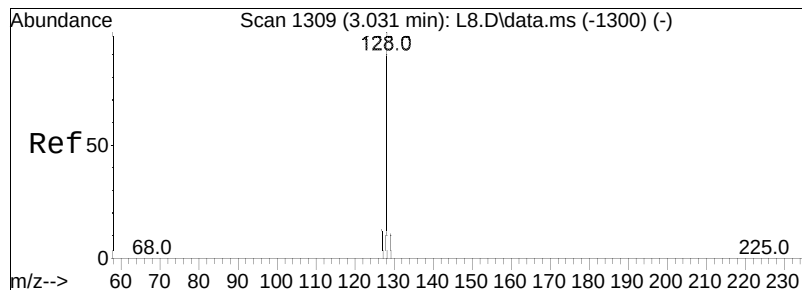




#7
 Hexachloroethane
 Concen: 922.36 ng/ml
 RT: 2.559 min Scan# 883
 Delta R.T. 0.016 min
 Lab File: 081607-5.D
 Acq: 27 Jun 2025 07:49 pm

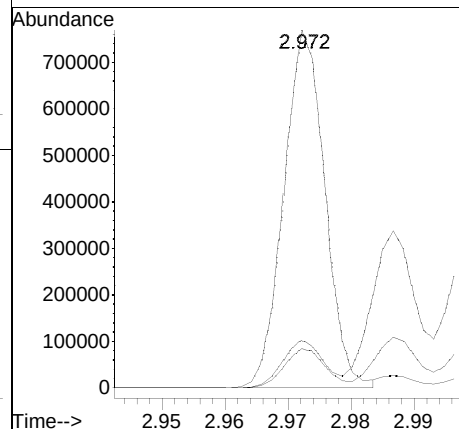
Tgt Ion	117	201	Ratio	Lower	Upper
Resp:	29730				
Ion Ratio	100	100.7		82.9	124.3

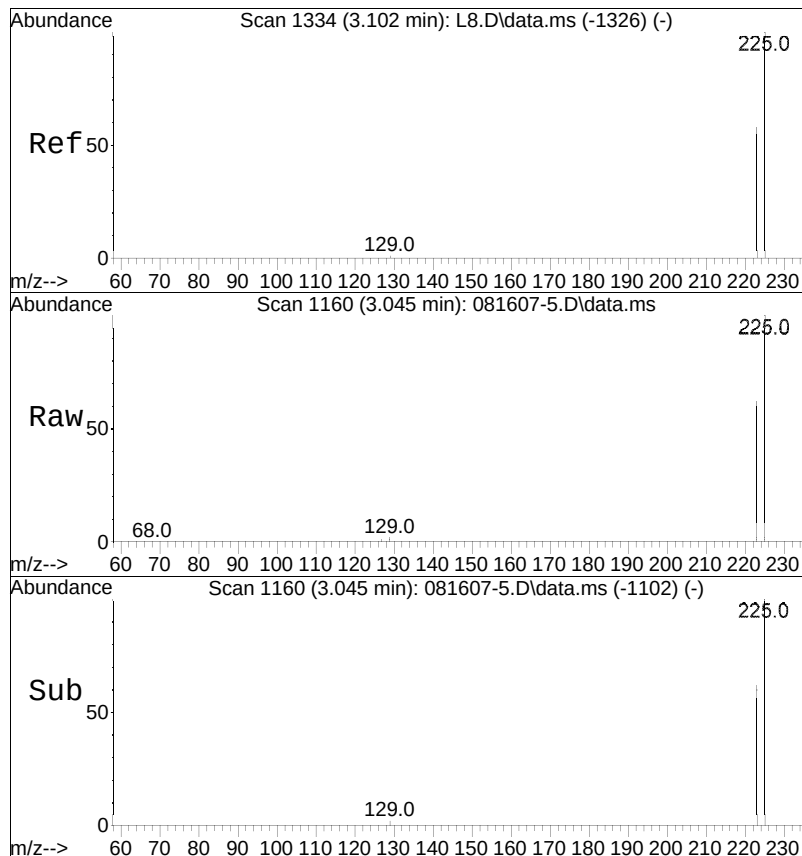




#10
Naphthalene
Concen: 1308.76 ng/ml
RT: 2.972 min Scan# 1115
Delta R.T. 0.013 min
Lab File: 081607-5.D
Acq: 27 Jun 2025 07:49 pm

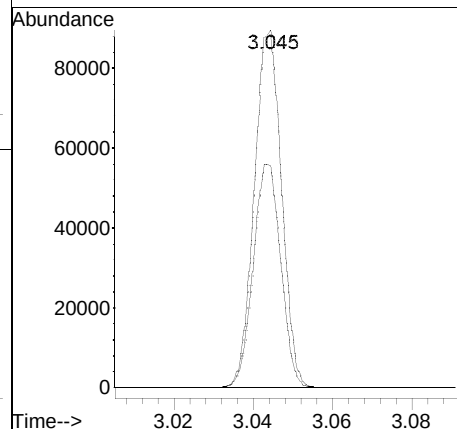
Tgt	Ion	128	Resp:	346122
Ion	Ratio	Lower	Upper	
128	100			
129	11.3	8.8	13.2	
127	13.5	10.6	15.8	

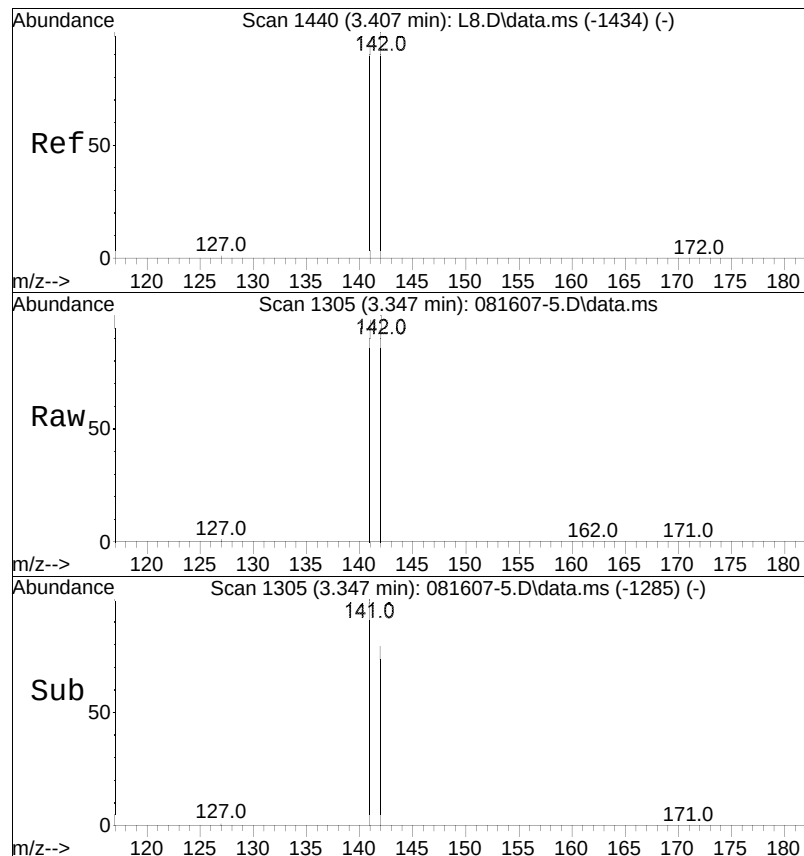




#11
 Hexachlorobutadiene
 Concen: 847.27 ng/ml
 RT: 3.045 min Scan# 1160
 Delta R.T. 0.013 min
 Lab File: 081607-5.D
 Acq: 27 Jun 2025 07:49 pm

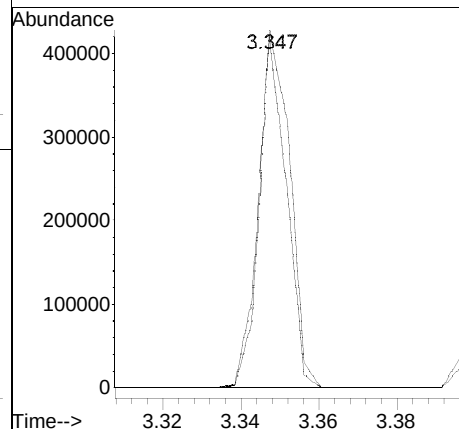
Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.0	50.2	75.4

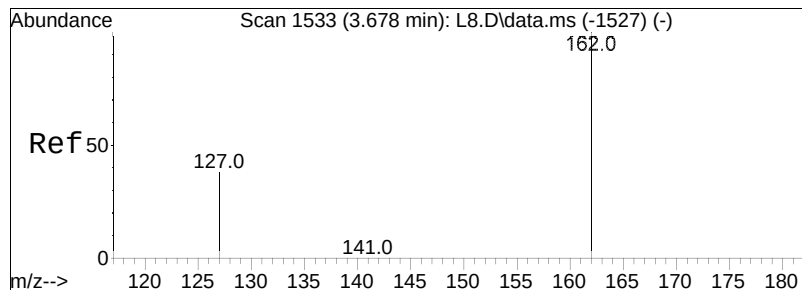




#12
 2-Methylnaphthalene
 Concen: 1345.88 ng/ml
 RT: 3.347 min Scan# 1305
 Delta R.T. 0.009 min
 Lab File: 081607-5.D
 Acq: 27 Jun 2025 07:49 pm

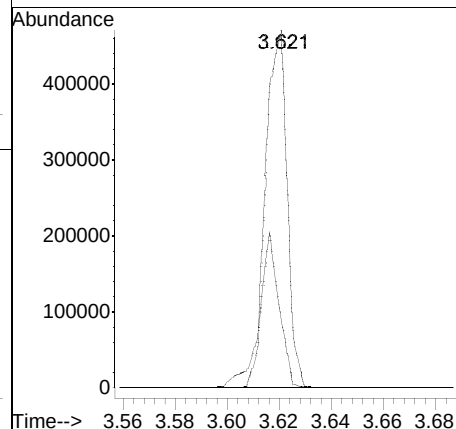
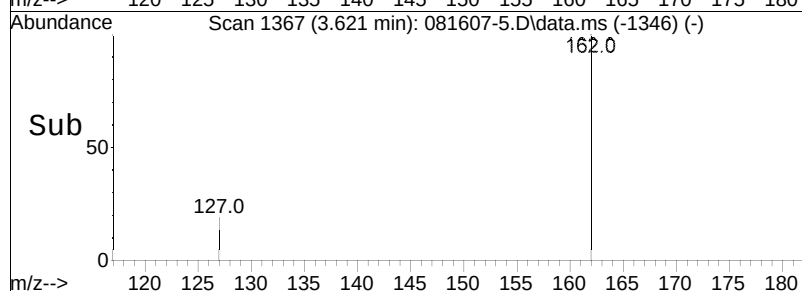
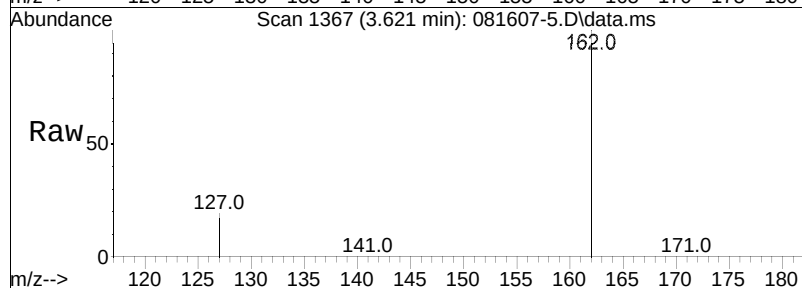
Tgt Ion	Ratio	Lower	Upper
142	100		
141	91.1	73.6	110.4

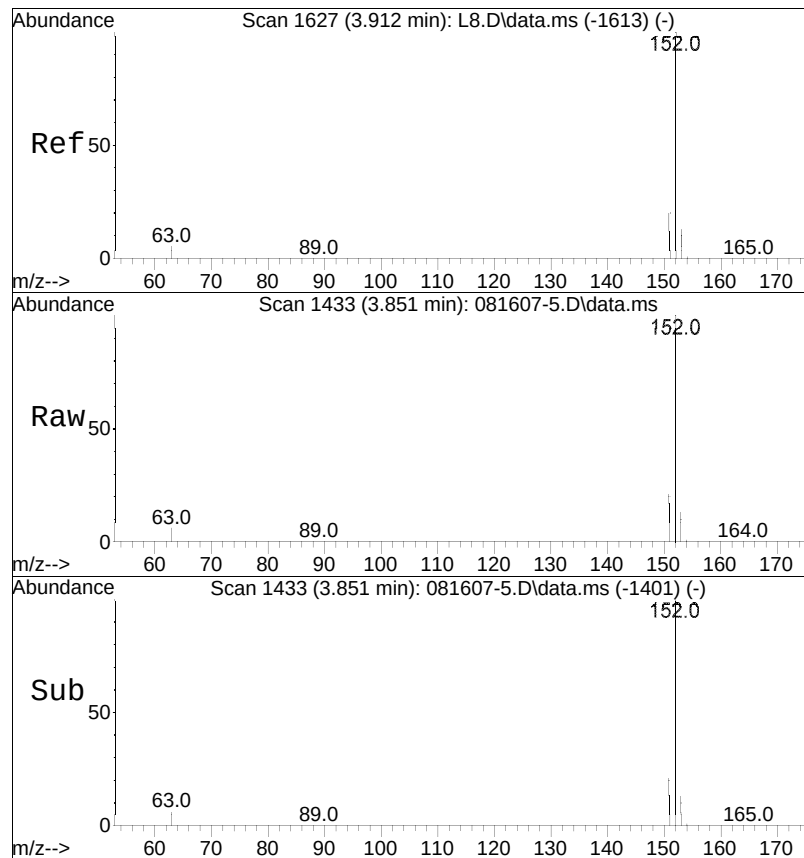




#15
 2-Chloronaphthalene
 Concen: 1420.93 ng/ml
 RT: 3.621 min Scan# 1367
 Delta R.T. 0.014 min
 Lab File: 081607-5.D
 Acq: 27 Jun 2025 07:49 pm

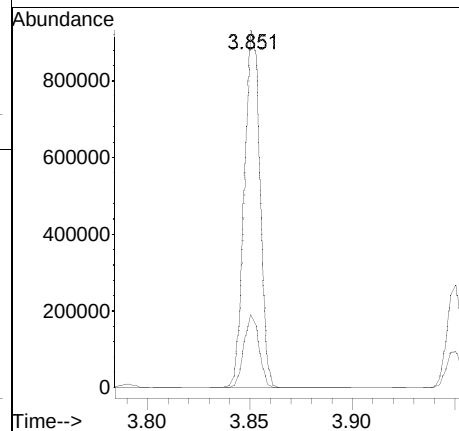
Tgt Ion	Ratio	Lower	Upper
162	100		
127	41.2	29.8	44.8

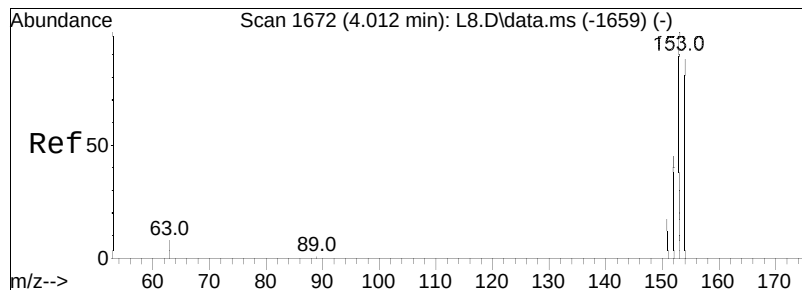




#17
 Acenaphthylene
 Concen: 1586.36 ng/ml
 RT: 3.851 min Scan# 1433
 Delta R.T. 0.007 min
 Lab File: 081607-5.D
 Acq: 27 Jun 2025 07:49 pm

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.2





#19

Acenaphthene

Concen: 1499.75 ng/ml

RT: 3.951 min Scan# 1470

Delta R.T. 0.010 min

Lab File: 081607-5.D

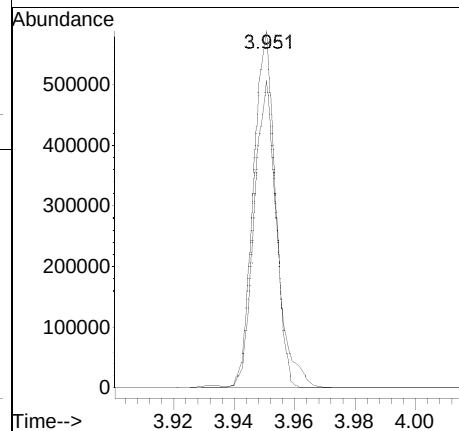
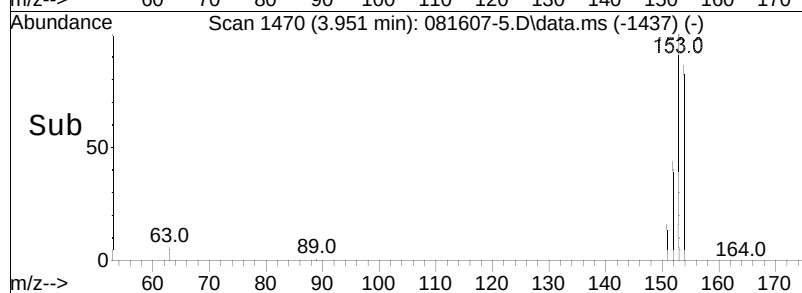
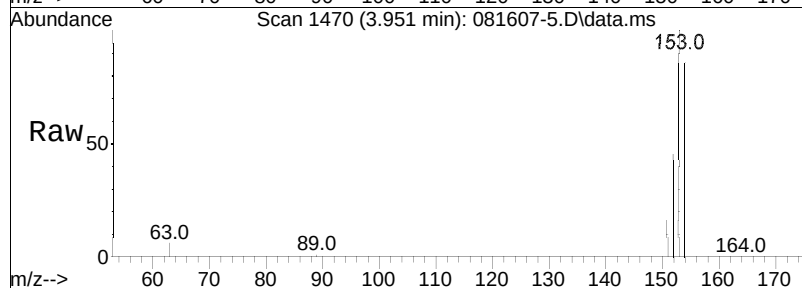
Acq: 27 Jun 2025 07:49 pm

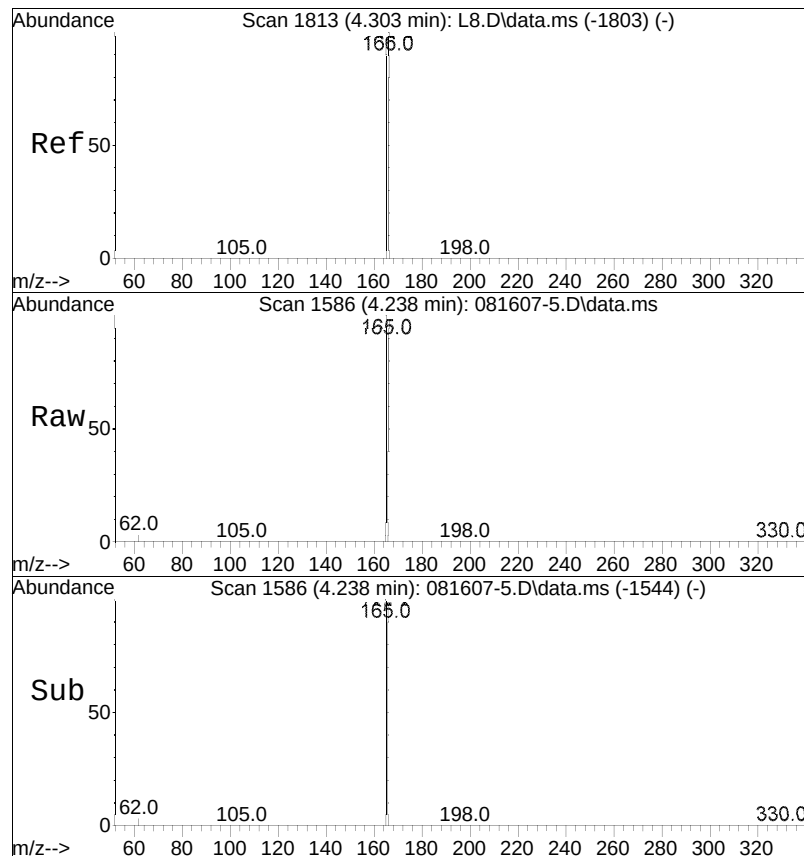
Tgt Ion:153 Resp: 292297

Ion Ratio Lower Upper

153 100

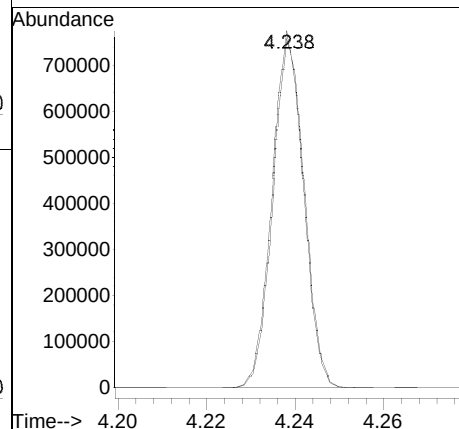
154 90.5 72.0 108.0

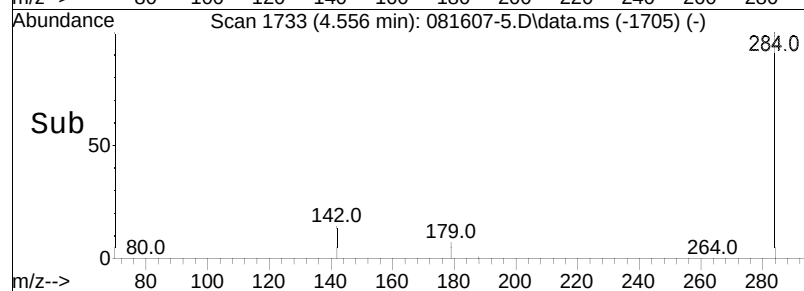
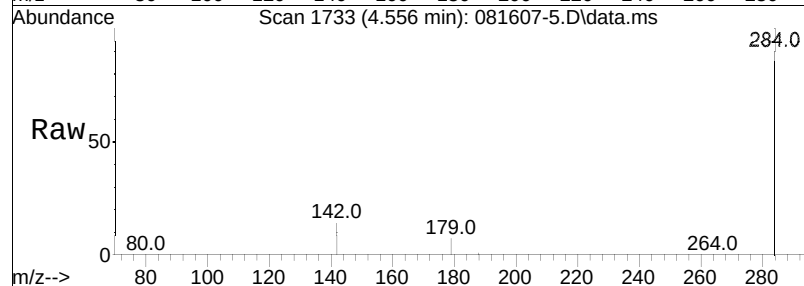
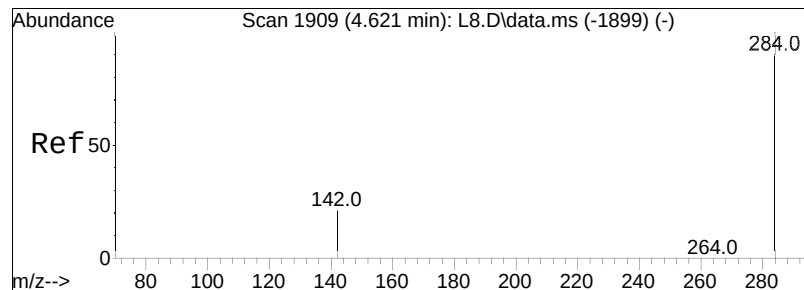




#21
 Fluorene
 Concen: 1588.83 ng/ml
 RT: 4.238 min Scan# 1586
 Delta R.T. 0.007 min
 Lab File: 081607-5.D
 Acq: 27 Jun 2025 07:49 pm

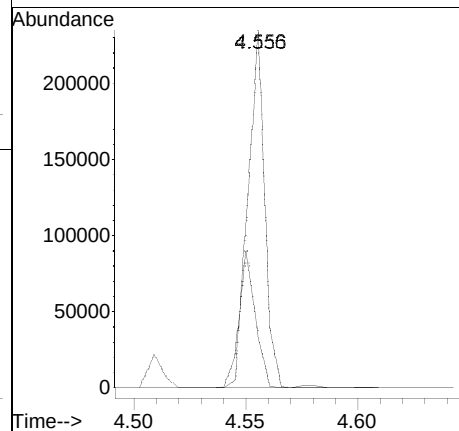
Tgt Ion	Ratio	Lower	Upper
166	100		
165	101.4	81.5	122.3

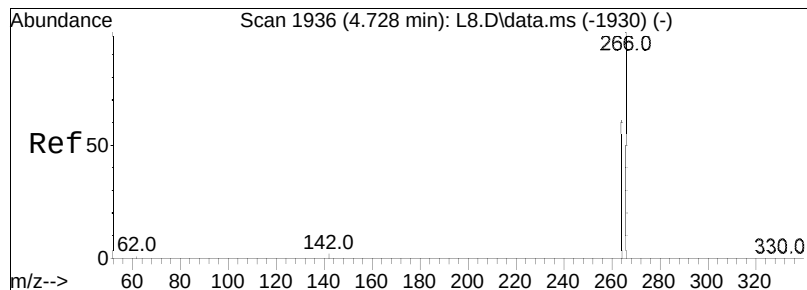




#25
 Hexachlorobenzene
 Concen: 1371.33 ng/ml
 RT: 4.556 min Scan# 1733
 Delta R.T. 0.006 min
 Lab File: 081607-5.D
 Acq: 27 Jun 2025 07:49 pm

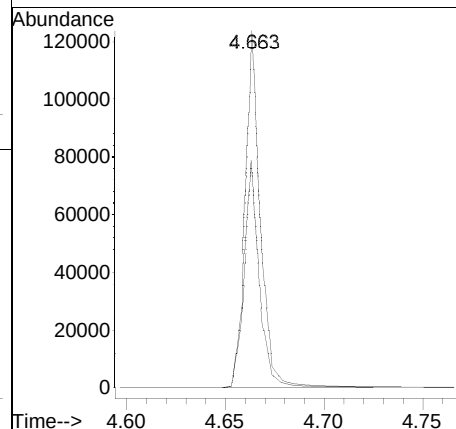
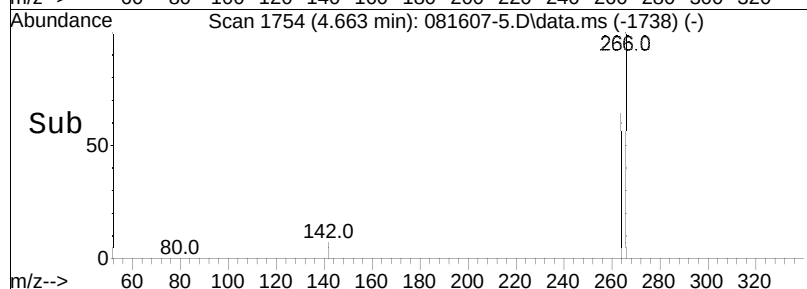
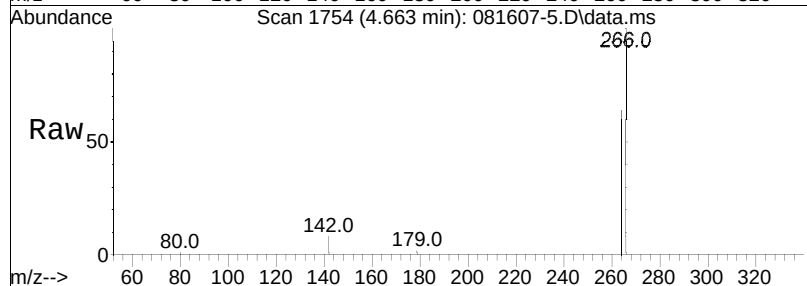
Tgt Ion	Ratio	Lower	Upper
284	100		
142	37.5	28.8	43.2

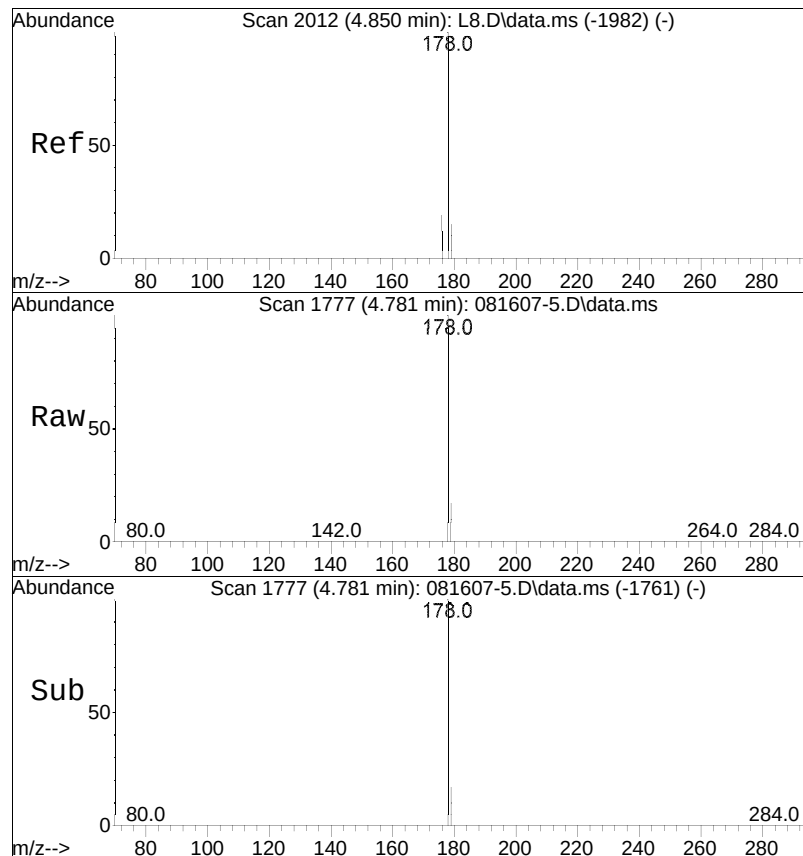




#26
 Pentachlorophenol
 Concen: 1725.89 ng/ml
 RT: 4.663 min Scan# 1754
 Delta R.T. 0.001 min
 Lab File: 081607-5.D
 Acq: 27 Jun 2025 07:49 pm

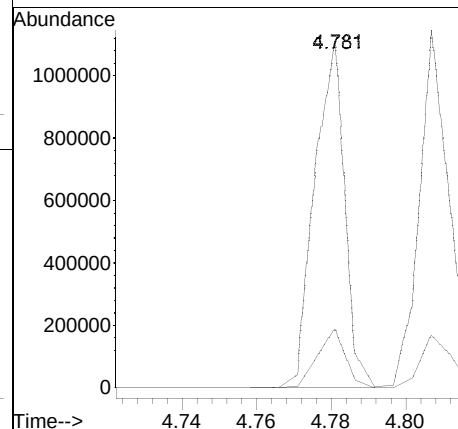
Tgt Ion	Ratio	Lower	Upper
266	100		
264	63.6	50.6	76.0

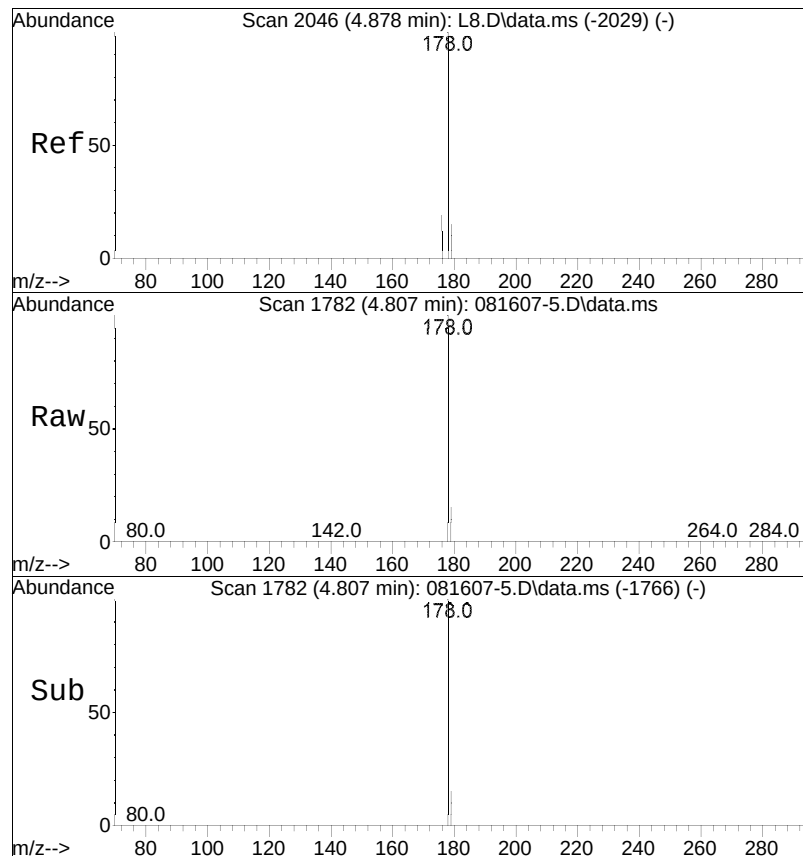




#27
 Phenanthrene
 Concen: 1647.90 ng/ml
 RT: 4.781 min Scan# 1777
 Delta R.T. 0.001 min
 Lab File: 081607-5.D
 Acq: 27 Jun 2025 07:49 pm

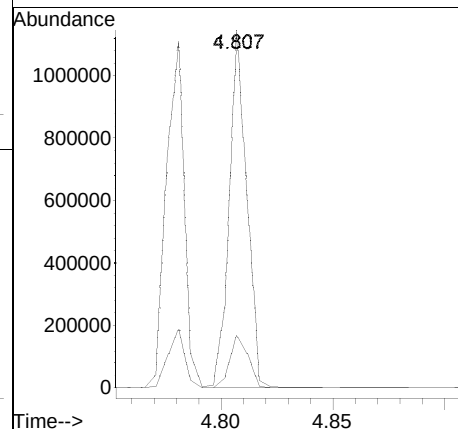
Tgt Ion	178	179	Ratio	Lower	Upper
Resp	619161				
Ion Ratio	100	15.8			
			12.4	18.6	

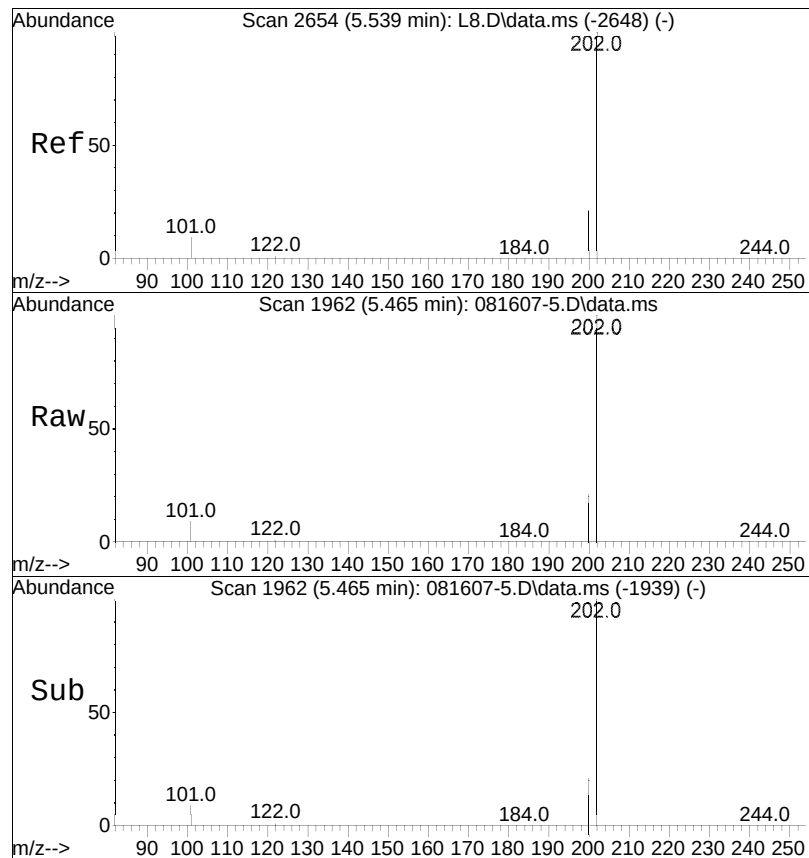




#28
 Anthracene
 Concen: 1643.22 ng/ml
 RT: 4.807 min Scan# 1782
 Delta R.T. 0.001 min
 Lab File: 081607-5.D
 Acq: 27 Jun 2025 07:49 pm

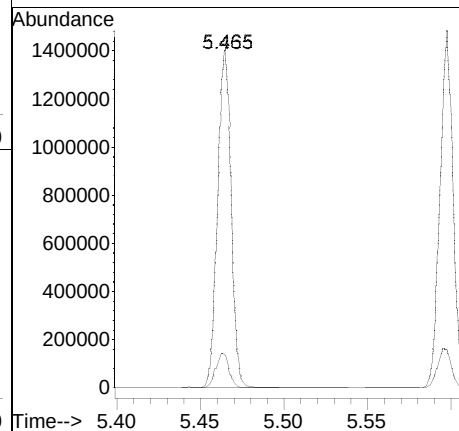
Tgt	Ion	Ratio	Lower	Upper
178	100			
179	15.5	12.2	18.2	

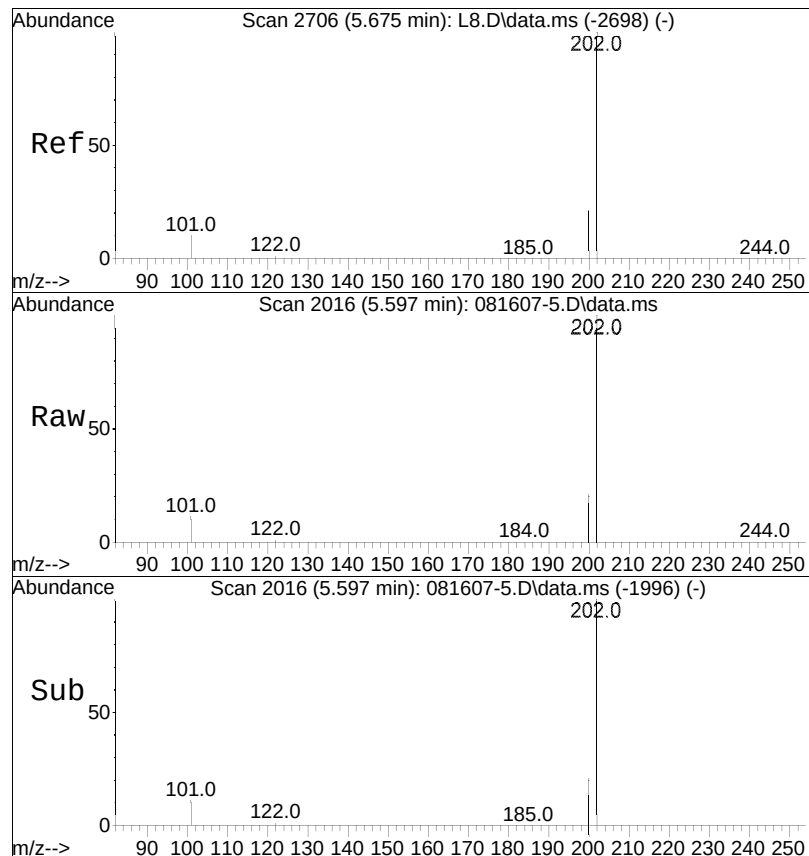




#29
 Fluoranthene
 Concen: 1610.90 ng/ml
 RT: 5.465 min Scan# 1962
 Delta R.T. -0.024 min
 Lab File: 081607-5.D
 Acq: 27 Jun 2025 07:49 pm

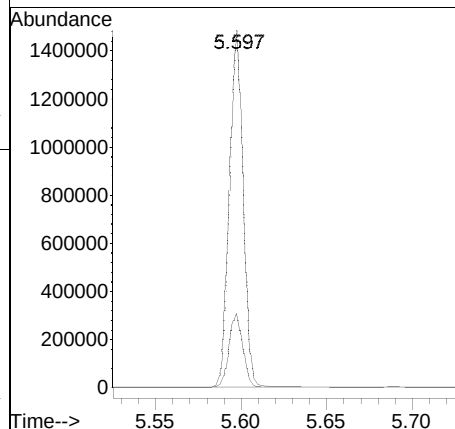
Tgt	Ion	Ratio	Lower	Upper
202	100			
101	10.0	7.5	11.3	

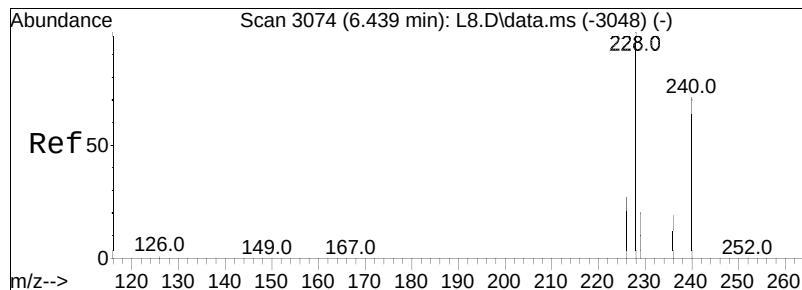




#30
 Pyrene
 Concen: 1563.34 ng/ml
 RT: 5.597 min Scan# 2016
 Delta R.T. -0.031 min
 Lab File: 081607-5.D
 Acq: 27 Jun 2025 07:49 pm

Tgt	Ion	Ratio	Lower	Upper
202	100			
200	21.0	17.0	25.4	





#34

Benzo[a]anthracene

Concen: 1949.20 ng/ml

RT: 6.341 min Scan# 2401

Delta R.T. -0.064 min

Lab File: 081607-5.D

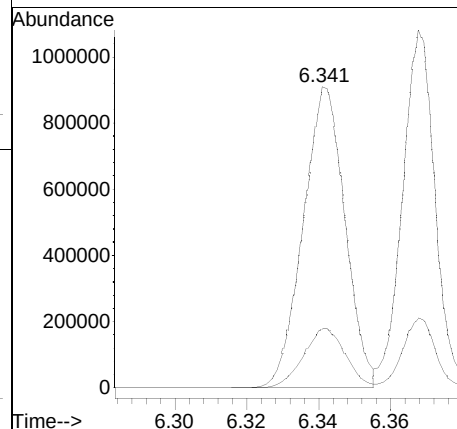
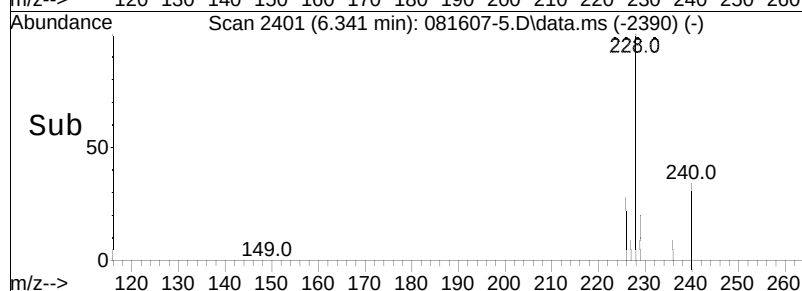
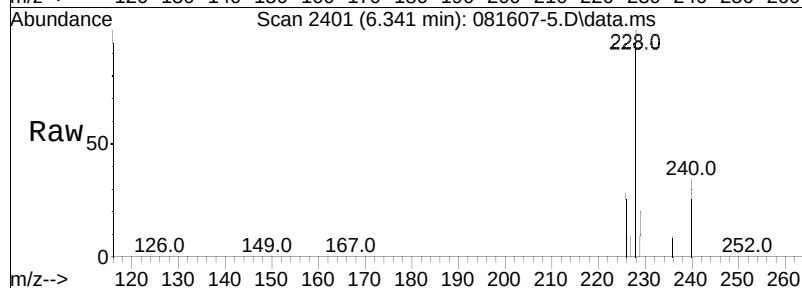
Acq: 27 Jun 2025 07:49 pm

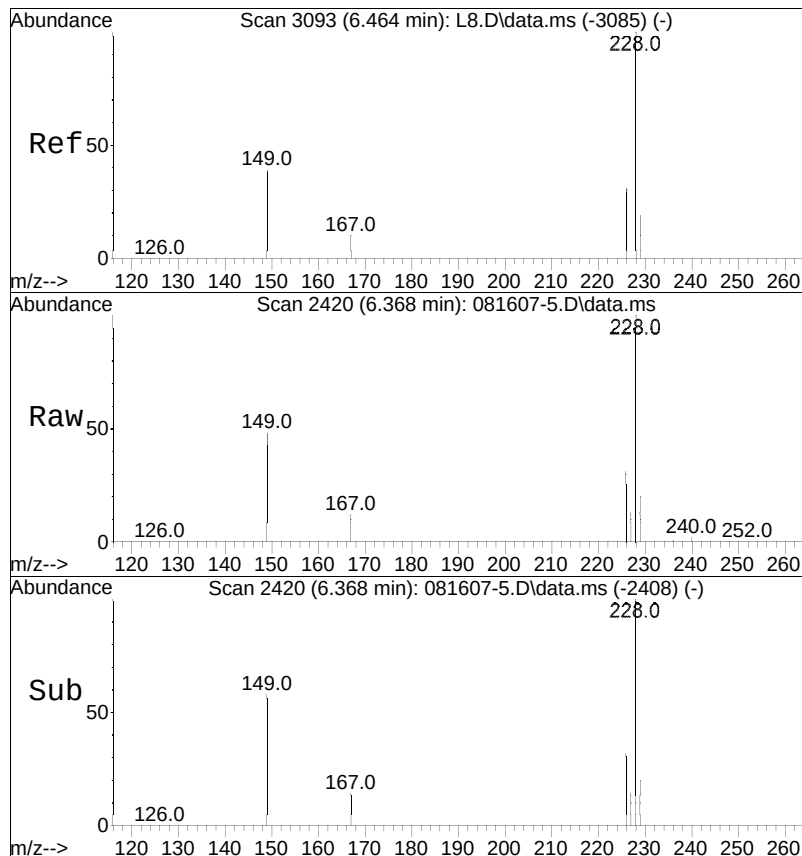
Tgt Ion: 228 Resp: 732346

Ion Ratio Lower Upper

228 100

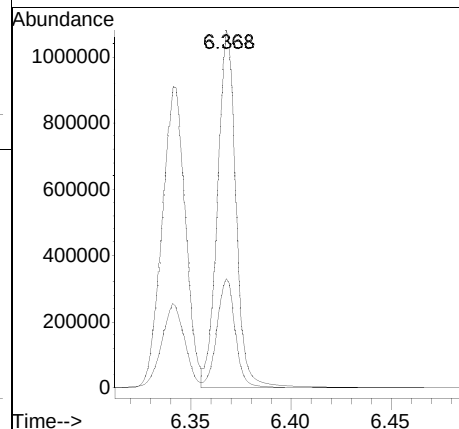
229 19.8 15.8 23.6

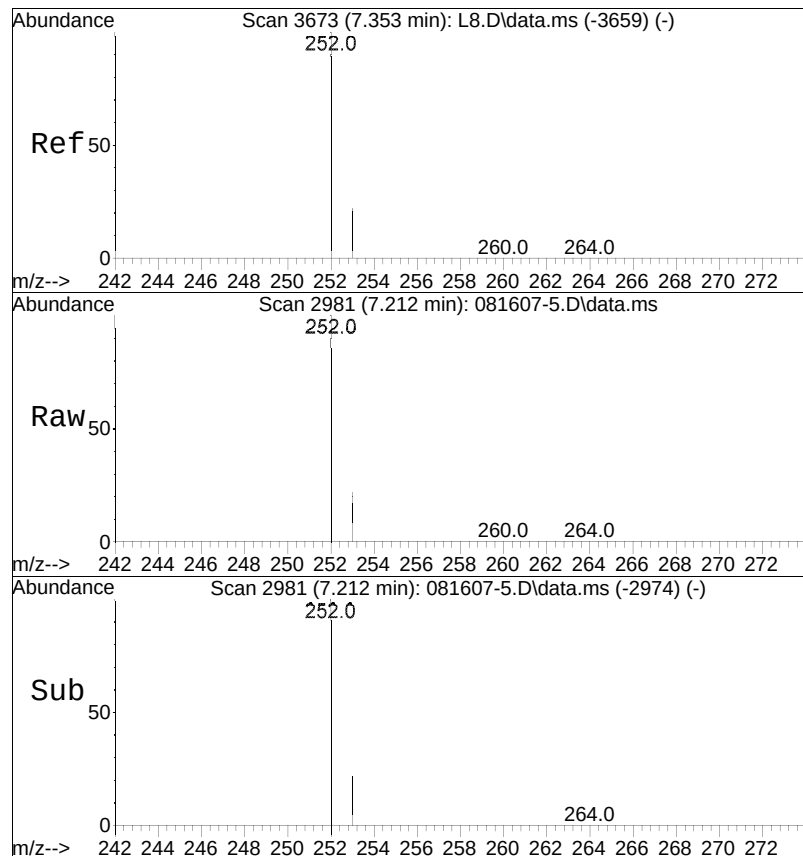




#36
 Chrysene
 Concen: 1909.49 ng/ml
 RT: 6.368 min Scan# 2420
 Delta R.T. -0.062 min
 Lab File: 081607-5.D
 Acq: 27 Jun 2025 07:49 pm

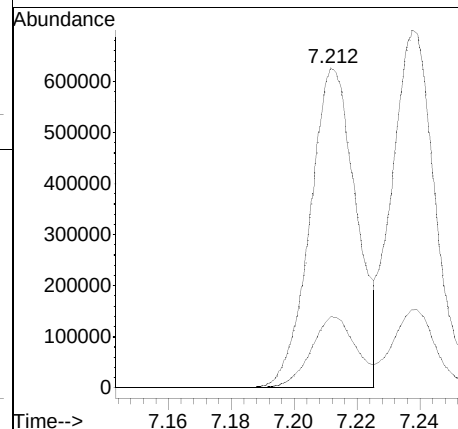
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.5	24.6	37.0

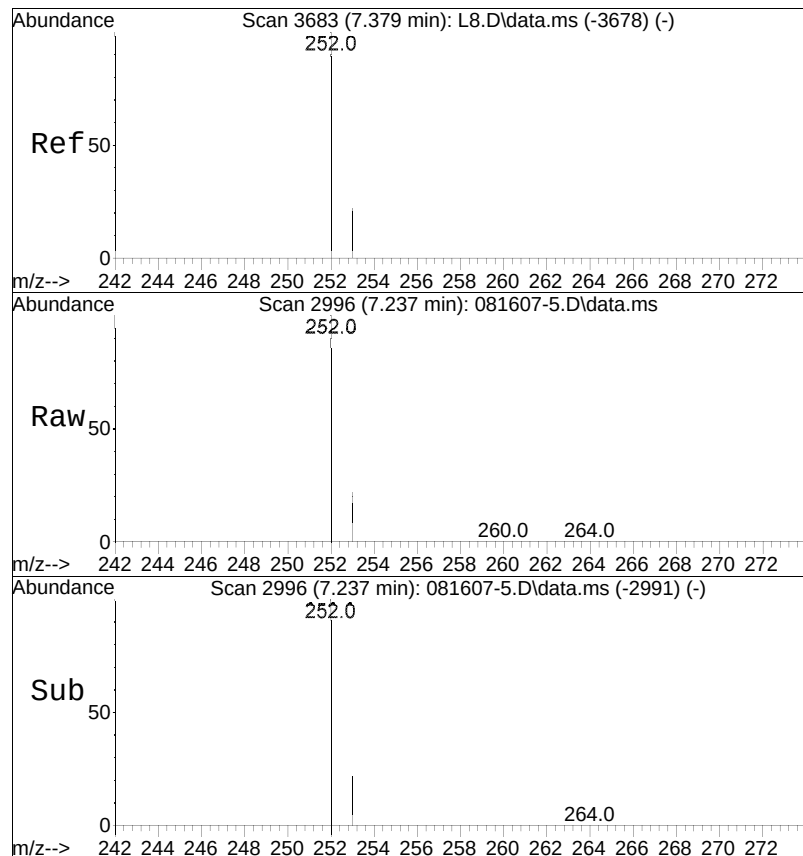




#39
 Benzo[b]fluoranthene
 Concen: 2232.52 ng/ml
 RT: 7.212 min Scan# 2981
 Delta R.T. -0.067 min
 Lab File: 081607-5.D
 Acq: 27 Jun 2025 07:49 pm

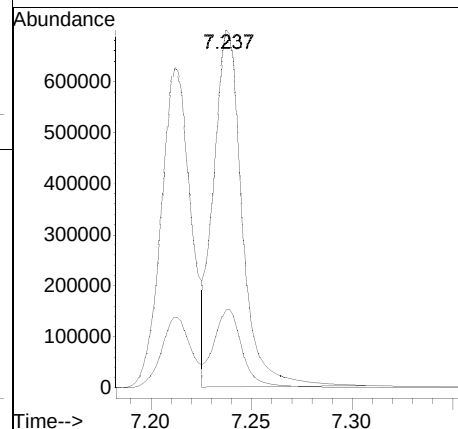
Tgt	Ion	Ratio	Lower	Upper
252	100			
253	21.8	18.1	27.1	

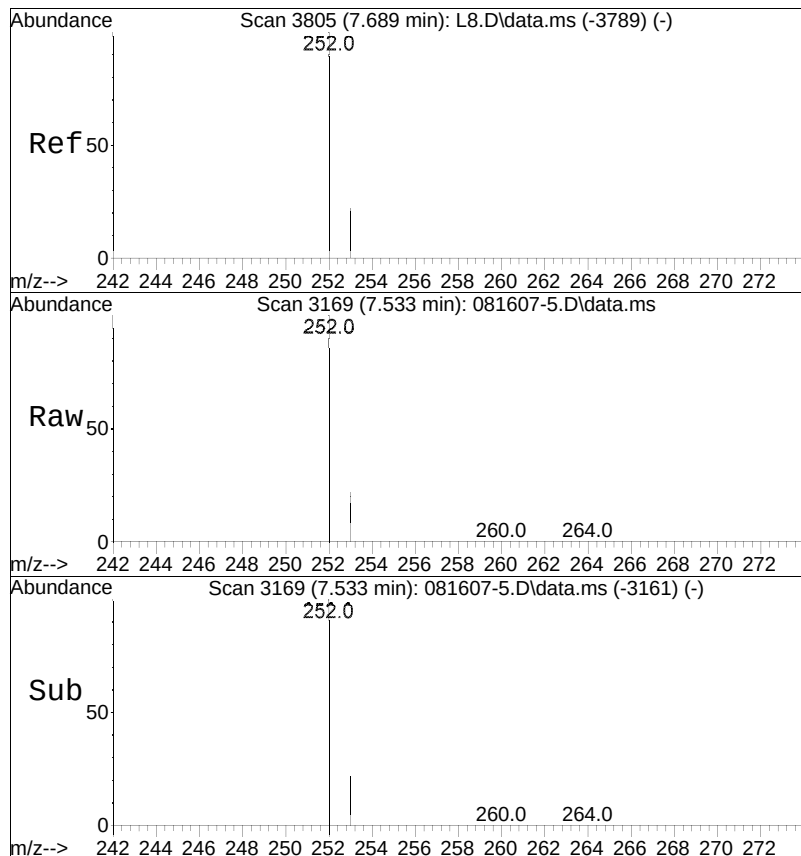




#40
 Benzo[k]fluoranthene
 Concen: 2081.72 ng/ml
 RT: 7.237 min Scan# 2996
 Delta R.T. -0.071 min
 Lab File: 081607-5.D
 Acq: 27 Jun 2025 07:49 pm

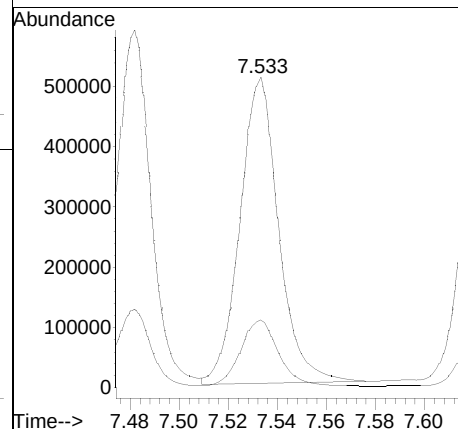
Tgt	Ion	Ratio	Lower	Upper
252	100			
253	22.0	17.0	25.4	

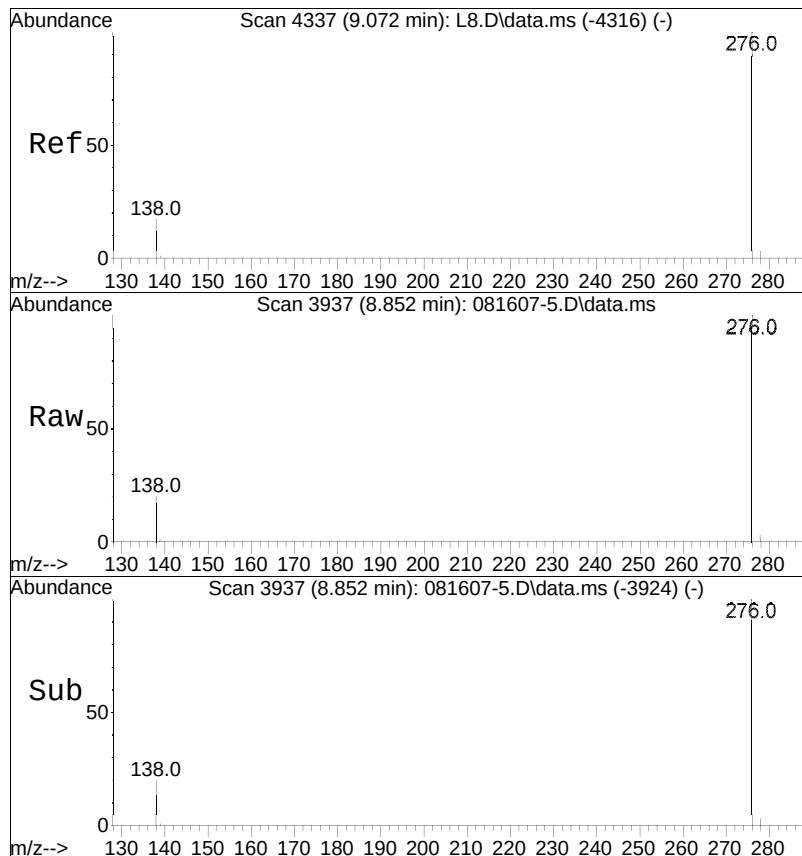




#41
 Benzo[a]pyrene
 Concen: 2041.97 ng/ml
 RT: 7.533 min Scan# 3169
 Delta R.T. -0.066 min
 Lab File: 081607-5.D
 Acq: 27 Jun 2025 07:49 pm

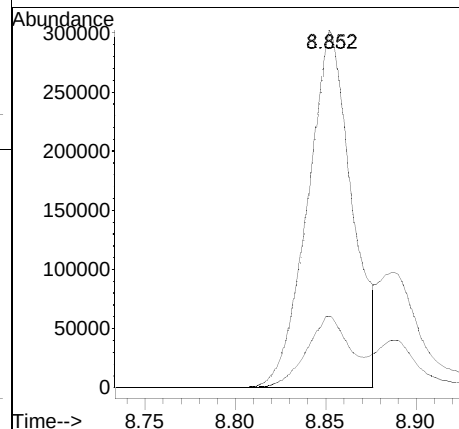
Tgt	Ion	Ratio	Lower	Upper
252	100			
253	21.8	17.4	26.0	

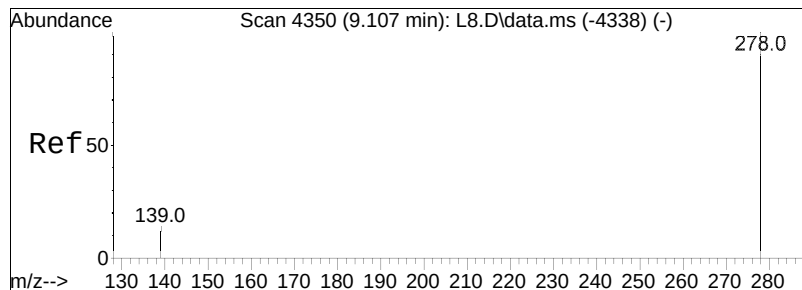




#42
 Indeno[1,2,3-cd]pyrene
 Concen: 1987.64 ng/ml
 RT: 8.852 min Scan# 3937
 Delta R.T. -0.058 min
 Lab File: 081607-5.D
 Acq: 27 Jun 2025 07:49 pm

Tgt	Ion	Ratio	Lower	Upper
276	100			
138	19.5	14.4	21.6	





#43

Dibenzo[a,h]anthracene

Concen: 1879.16 ng/ml M6

RT: 8.890 min Scan# 3959

Delta R.T. -0.054 min

Lab File: 081607-5.D

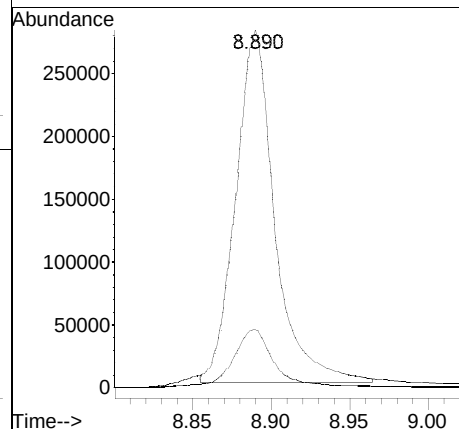
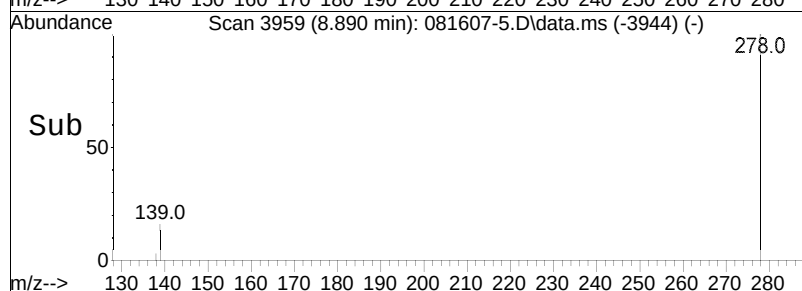
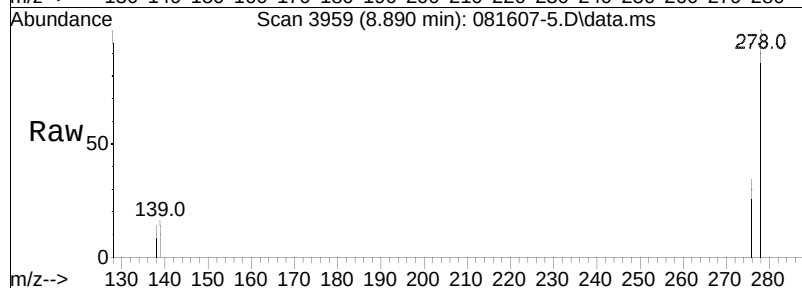
Acq: 27 Jun 2025 07:49 pm

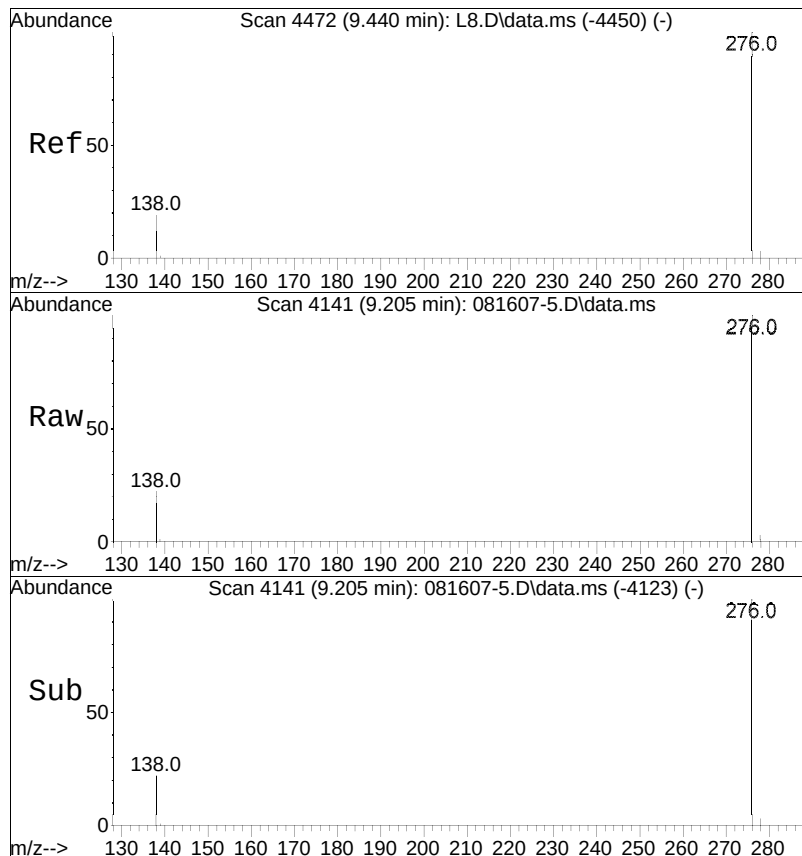
Tgt Ion: 278 Resp: 480176

Ion Ratio Lower Upper

278 100

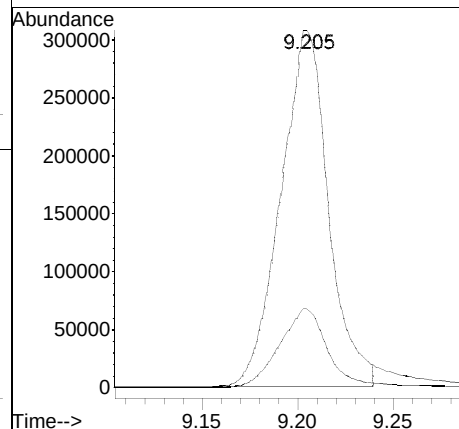
139 17.4 12.1 18.1





#44
 Benzo[g,h,i]perylene
 Concen: 2087.51 ng/ml
 RT: 9.205 min Scan# 4141
 Delta R.T. -0.049 min
 Lab File: 081607-5.D
 Acq: 27 Jun 2025 07:49 pm

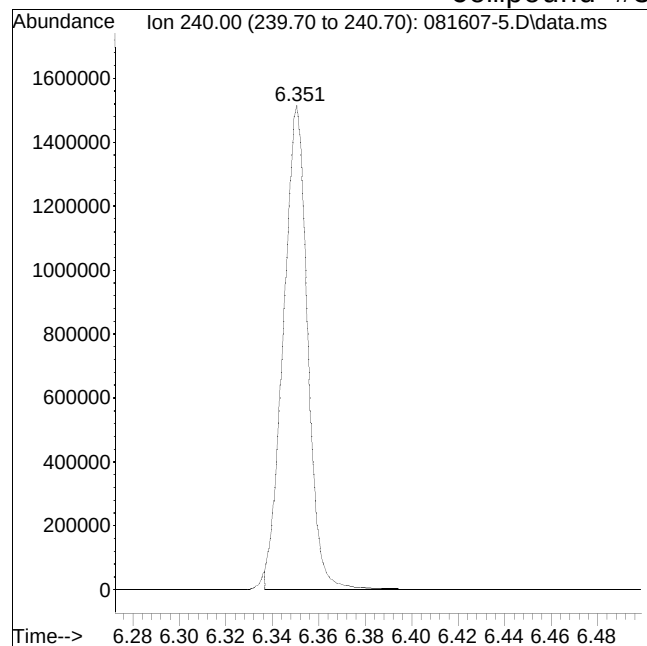
Tgt Ion	Ratio	Lower	Upper
276	100		
138	22.0	16.0	24.0



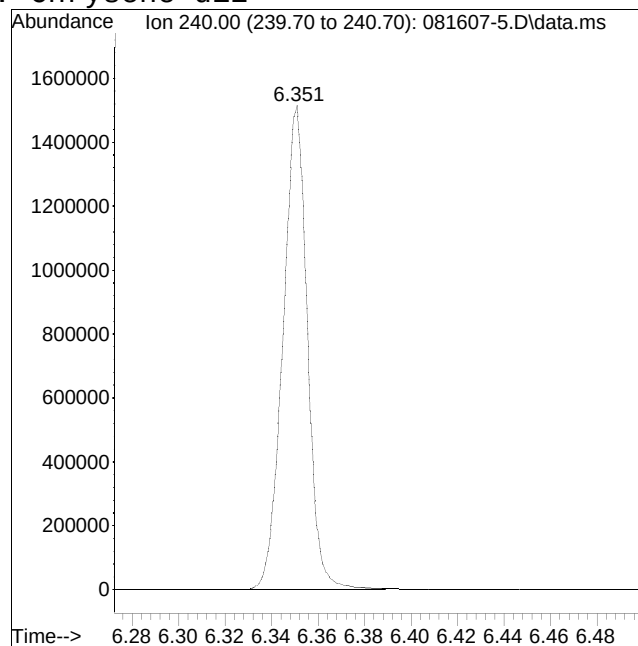
Manual Integration Report

Data Path : I:\8270SIM\sv119\250627nRVQMethod : SIM-RVT_250625_sv119.M
Data File : 081607-5.D Operator : sv119:dv
Date Inj'd : 6/27/2025 7:49 pm Instrument : SV119
Sample : WG2081607-5,32,,DV Quant Date : 6/27/2025 8:03 pm

Compound #33: Chrysene-d12



Original Peak Response = 1097337



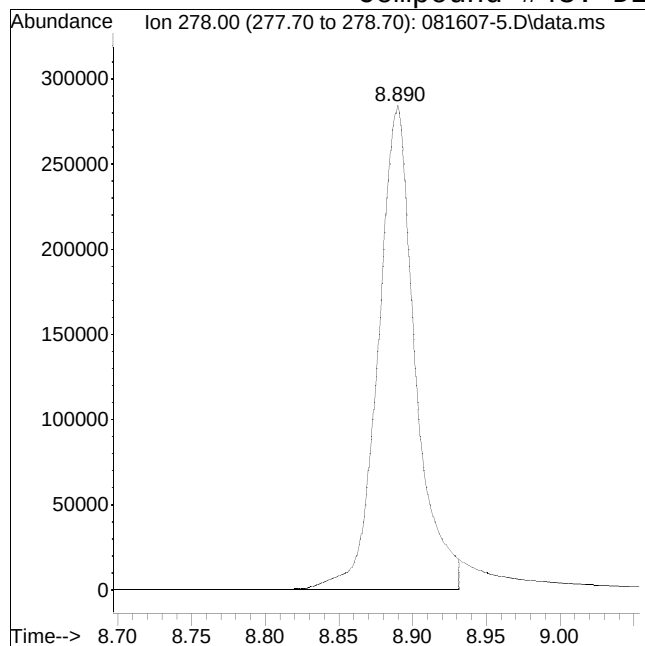
Manual Peak Response = 1107946 M4

M4 = Poor automated baseline construction.

Manual Integration Report

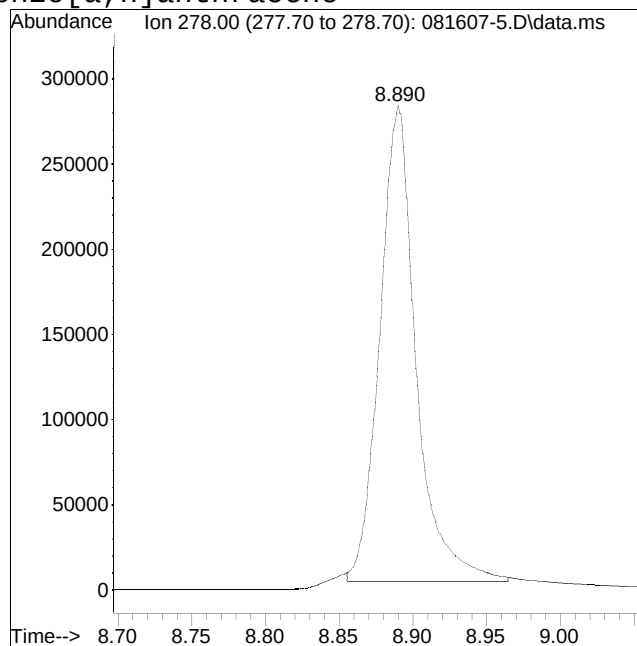
Data Path : I:\8270SIM\sv119\250627nrv\001
Data File : 081607-5.D
Date Inj'd : 6/27/2025 7:49 pm
Sample : WG2081607-5,32,,DV
Method : SIM-RVT_250625_sv119.M
Operator : sv119:dv
Instrument : SV119
Quant Date : 6/27/2025 8:03 pm

Compound #43: Dibenzo[a,h]anthracene



Original Peak Response = 497188

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).



Manual Peak Response = 480176 M6

Calculation of Semi Volatile Organic Compounds

Aqueous Concentration Formula: $Amt * DF * 1000 * (1/V_o) * V_f$

Where:

DF = Dilution Factor

V_o = Volume of Sample (mL)

V_f = Extraction Lab Final Volume (mL)

Soil Concentration Formula: $Amt * DF * 1000 * (1/W_t) * V_f * (100/TS)$

Where:

DF = Dilution Factor

W_t = Weight of Sample (g)

V_f = Extraction Lab Final Volume (mL)

TS = Total Solids

PACE ANALYTICAL SERVICES

PACE WORK GROUP REPORT (wk02)

Jun 30 2025, 10:34 am

Work Group: WG2081607 for Department: 2 Organic Preparation

Created: 20-JUN-25 Due: Operator: YAS

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2538382-01	MW-8S	C NYTCL-8270-SIM-RVT	WATER	DONE	U	0625	0627	S0	Amber-A.1
L2538382-02	MW-8D	C NYTCL-8270-SIM-RVT	WATER	DONE	U	0625	0627	S0	Amber-A.1
L2538382-03	MW-5D	C NYTCL-8270-SIM-RVT	WATER	DONE	U	0625	0627	S0	Amber-A.1
L2538382-04	PZ-5	C NYTCL-8270-SIM-RVT	WATER	DONE	U	0625	0627	S0	Amber-A.1
L2538382-05	MW-12S	C NYTCL-8270-SIM-RVT	WATER	DONE	U	0625	0627	S0	Amber-A.1
L2538382-06	MW-12D	C NYTCL-8270-SIM-RVT	WATER	DONE	U	0625	0627	S0	Amber-A.1
L2538382-07	DUP_06182025	C NYTCL-8270-SIM-RVT	WATER	DONE	U	0625	0627	S0	Amber-A.1
WG2081607-1	Laboratory Method Bl	S NYTCL-8270-SIM-RVT	WATER	DONE	U				
WG2081607-2	Laboratory Control S	S NYTCL-8270-SIM-RVT	WATER	DONE	U				
WG2081607-3	LCS Duplicate	S NYTCL-8270-SIM-RVT	WATER	DONE	U				
WG2081607-4	Matrix Spike	S NYTCL-8270-SIM-RVT	WATER	DONE	U				
WG2081607-5	Matrix Spike Duplica	S NYTCL-8270-SIM-RVT	WATER	DONE	U				
Comments:									
WG2081607-3	WG2081607-2								
WG2081607-4	L2538382-06								
WG2081607-5	L2538382-06								

Analysis log File

Total Files Reported in Log : 13

Log Generated From Directory: I:\8270SIM\sv119\250625RV\Tical\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	TUNE.D	DFTPPRUN.M	TUNE	WG2084288,,ical	6/25/2025 7:48 pm
2	L10.D	SIM-RVT.M	IL10,32,,5 Lot# 11697	WG2084288,,ical	6/25/2025 8:07 pm
3	L9.D	SIM-RVT.M	IL9,32,,2.5 Lot# 11699	WG2084288,,ical	6/25/2025 8:23 pm
4	L8.D	SIM-RVT.M	IL8,32,,1 Lot# 11700	WG2084288,,ical	6/25/2025 8:40 pm
5	L7.D	SIM-RVT.M	IL7,32,,0.5 Lot# 11701	WG2084288,,ical	6/25/2025 8:57 pm
6	L6.D	SIM-RVT.M	IL6,32,,0.1 Lot# 11702	WG2084288,,ical	6/25/2025 9:14 pm
7	L5.D	SIM-RVT.M	IL5,32,,0.04 Lot# 11703	WG2084288,,ical	6/25/2025 9:31 pm
8	L4.D	SIM-RVT.M	IL4,32,,0.01 Lot# 11704	WG2084288,,ical	6/25/2025 9:48 pm
9	L3.D	SIM-RVT.M	IL3,32,,0.005 Lot# 1170	WG2084288,,ical	6/25/2025 10:04 pm
10	L2.D	SIM-RVT.M	IL2,32,,0.002 Lot# 1170	WG2084288,,ical	6/25/2025 10:24 pm
11	L1.D	SIM-RVT.M	IL1,32,,0.001 Lot# 1170	WG2084288,,ical	6/25/2025 10:41 pm
12	ICV.D	SIM-RVT.M	CQICV1,32,,1 Lot# 11696	WG2084288,,ical	6/25/2025 10:58 pm
13	instblk.D	SIM-RVT.M	instrument blank	WG2084288	6/25/2025 11:15 pm

Printed: 06/27/25

Page: 1

Dep.: GCMS
 Inst: SV119
 Date: 06/27/25
 Run: n

Method
 GC: SIM RVT
 Seq: wg2084498
 ICAL: 22426



Vial	Data File	Sample	CCAL/Notes	Screen	Verified	Initials
48	deg0627n	wg-1,32,,dftpp SV119 lot# 11649				06/27 DV
49	ccv0627n	wg-3,32,,CCV 11700 (0621)				06/27 DV
50	blank0627n	instrument blank				
1	081607-1	WG2081607-1,32,,DV				06/27 DV
2	081607-2	WG2081607-2,32,,DV				06/27 DV
3	081607-3	WG2081607-3,32,,DV				06/27 DV
4	38382-01	L2538382-01,32,,DV				06/27 DV
5	38382-02	L2538382-02,32,,DV				06/27 DV
6	38382-03	L2538382-03,32,,DV				06/27 DV
7	38382-04	L2538382-04,32,,DV				06/27 DV
8	38382-05	L2538382-05,32,,DV				06/27 DV
9	38382-06	L2538382-06,32,,DV				06/27 DV
10	38382-07	L2538382-07,32,,DV				06/27 DV
11	081607-4	WG2081607-4,32,,DV				06/27 DV
12	081607-5	WG2081607-5,32,,DV				06/27 DV
13	37103-02	L2537103-02,32,,RR,DV				06/27 DV
14	38415-02	L2538415-02,32,,DV	RR hit of PCP			06/27 DV
15	38415-03	L2538415-03,32,,DV				06/27 DV
16	38415-04	L2538415-04,32,,DV				06/27 DV
17	38415-05	L2538415-05,32,,DV				06/27 DV
18	38415-06	L2538415-06,32,,DV				06/27 DV
19	38415-01	L2538415-01,32,,DV				06/27 DV
20	082152-4	WG2082152-4,32,,DV				06/27 DV
21	082152-5	WG2082152-5,32,,DV				06/27 DV
22	38474-01	L2538474-01,32,,DV				06/29 JJW
23	38474-02	L2538474-02,32,,DV				06/29 JJW
24	38474-03	L2538474-03,32,,DV				06/29 JJW
25	38474-04	L2538474-04,32,,DV				06/29 JJW
26	38474-07	L2538474-07,32,,DV				06/29 JJW
27	781-01d1	L2537781-01d,32,10,DV				06/29 JJW
28	781-02d1	L2537781-02d,32,10,DV				06/29 JJW
29	079030-2	WG2079030-2,32,,DV				slr 6/30
30	079030-3	WG2079030-3,32,,DV				slr 6/30
31	079030-1	WG2079030-1,32,,DV				slr 6/30
32	36811-01	L2536811-01,32,,DV				slr 6/30
33	36811-02	L2536811-02,32,,DV				slr 6/30
34	36811-03	L2536811-03,32,,DV				slr 6/30
35	36811-04	L2536811-04,32,,DV				slr 6/30
36	083847-4	wg2083847-4,32,,dv,RR				
37	083847-5	wg2083847-5,32,,dv,RR			DV	
					Sv-jg	



ORGANIC ELN REPORT

Workgroup: WG2081607

Prep Method: EPA 3510C Solvent Type: DCM Surrogate Type: ABN Spike Type: ABN-SIM Spike Verify by: RSN Lims Spikelot: 8270-RVT Additional Reagents/Stdts <table><tr><td>H2SO4</td><td>A052225</td></tr><tr><td>Na2SO4</td><td>244434</td></tr><tr><td>NaOH</td><td>10NNaOH061425</td></tr></table>	H2SO4	A052225	Na2SO4	244434	NaOH	10NNaOH061425	Conc.Method: Buchi Solvent Type: DCM Lot #: EK254 Additional Reagents/Stdts	Cleanup 1 Cleanup Method 1: Cleanup Method 2: Solvent Type:Lot #: Additional Reagents/Stdts
H2SO4	A052225							
Na2SO4	244434							
NaOH	10NNaOH061425							

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Conc Date	Analyst	Final Vol ml	Conc Unit
L2538382-01 SAMP	06/20/25 17:05	Richard Nyarko	100	<2,>12	.1		06/20/25 23:04	Victor Kono	1	K
L2538382-02 SAMP	06/20/25 17:05	Richard Nyarko	100	<2,>12	.1		06/20/25 23:04	Victor Kono	1	K
L2538382-03 SAMP	06/20/25 17:05	Richard Nyarko	100	<2,>12	.1		06/20/25 23:04	Victor Kono	1	K
L2538382-04 SAMP	06/20/25 17:05	Richard Nyarko	100	<2,>12	.1		06/20/25 23:04	Victor Kono	1	K
L2538382-05 SAMP	06/20/25 17:05	Richard Nyarko	100	<2,>12	.1		06/20/25 23:04	Victor Kono	1	K
L2538382-06 SAMP	06/20/25 17:05	Richard Nyarko	100	<2,>12	.1		06/20/25 23:04	Victor Kono	1	K
L2538382-07 SAMP	06/20/25 17:05	Richard Nyarko	100	<2,>12	.1		06/20/25 23:04	Victor Kono	1	K



ORGANIC ELN REPORT

Workgroup: WG2081607

Sample/ Type	Extraction						Concentration			
	Extract Date	Analyst	Sample Vol ml	Ph	Surr Amt ml	Spike Amt ml	Conc Date	Analyst	Final Vol ml	Conc Unit
WG2081607 -1 BLANK	06/20/25 17:05	Richard Nyarko	100	<2,>12	.1		06/20/25 23:04	Victor Kono	1	K
	WG2081606									
WG2081607 -2 LCS	06/20/25 17:05	Richard Nyarko	100	<2,>12	.1	.1	06/20/25 23:04	Victor Kono	1	K
WG2081607 -3 LCSD	06/20/25 17:05	Richard Nyarko	100	<2,>12	.1	.1	06/20/25 23:04	Victor Kono	1	K
WG2081607 -4 MS	06/20/25 17:05	Richard Nyarko	100	<2,>12	.1	.1	06/20/25 23:04	Victor Kono	1	K
WG2081607 -5 MSD	06/20/25 17:05	Richard Nyarko	100	<2,>12	.1	.1	06/20/25 23:04	Victor Kono	1	K

Metals

Inorganic Data (ICP Analysis)

Form 1 METALS

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Lab ID : WG2081457-1
 Client ID : WG2081457-1BLANK
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 19,200.7
 Lab File ID : WG2083640.pdf
 Sample Amount : 50ml
 Digestion Method : EPA 3005A

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 06/26/25 16:49
 Dilution Factor : 1
 Analyst : DMC
 Instrument ID : TRACE6
 %Solids : N/A
 Date Digested : 06/20/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	ND	0.0100	0.0021	U
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	ND	0.100	0.0350	U
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	ND	0.0100	0.0022	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0090	U
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	ND	0.100	0.0153	U
7439-96-5	Manganese, Dissolved	ND	0.0100	0.0016	U
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	ND	2.50	0.237	U
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	ND	2.00	0.120	U
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	ND	0.0050	0.0021	U



Form 1 METALS

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Lab ID : WG2081457-4
Client ID : WG2081457-4 DUP
Sample Location :
Sample Matrix : WATER
Analytical Method : 19,200.7
Lab File ID : WG2083640.pdf
Sample Amount : 50ml
Digestion Method : EPA 3005A

Lab Number : L2538382
Project Number : 2232.0006Y005
Date Collected : 06/06/25 10:00
Date Received : 06/06/25
Date Analyzed : 06/26/25 17:37
Dilution Factor : 1
Analyst : DMC
Instrument ID : TRACE6
%Solids : N/A
Date Digested : 06/20/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7440-50-8	Copper, Dissolved	0.0190	0.0100	0.002	
7440-22-4	Silver, Dissolved	ND	0.0070	0.003	U



Form 1 METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-01	Date Collected	: 06/18/25 09:00
Client ID	: MW-8S	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/27/25 19:41
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: EFM
Lab File ID	: WG2084232.csv	Instrument ID	: TRACE9
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/20/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	0.0362	0.0100	0.0021	
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	12.0	0.100	0.0350	
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	ND	0.0100	0.0022	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0090	U
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	5.91	0.100	0.0153	
7439-96-5	Manganese, Dissolved	0.0821	0.0100	0.0016	
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	1.11	2.50	0.237	J
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	8.18	2.00	0.120	
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	ND	0.0050	0.0021	U



Form 1 METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-02	Date Collected	: 06/18/25 09:05
Client ID	: MW-8D	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/27/25 19:45
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: EFM
Lab File ID	: WG2084232.csv	Instrument ID	: TRACE9
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/20/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	0.0303	0.0100	0.0021	
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	12.0	0.100	0.0350	
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	ND	0.0100	0.0022	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0090	U
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	5.86	0.100	0.0153	
7439-96-5	Manganese, Dissolved	ND	0.0100	0.0016	U
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	1.23	2.50	0.237	J
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	16.9	2.00	0.120	
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	ND	0.0050	0.0021	U



Form 1 METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-03	Date Collected	: 06/18/25 10:30
Client ID	: MW-5D	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/27/25 19:48
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: EFM
Lab File ID	: WG2084232.csv	Instrument ID	: TRACE9
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/20/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	0.0462	0.0100	0.0021	
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	14.8	0.100	0.0350	
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	ND	0.0100	0.0022	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0090	U
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	7.11	0.100	0.0153	
7439-96-5	Manganese, Dissolved	ND	0.0100	0.0016	U
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	1.30	2.50	0.237	J
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	19.1	2.00	0.120	
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	ND	0.0050	0.0021	U



Form 1 METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-04	Date Collected	: 06/18/25 10:45
Client ID	: PZ-5	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/27/25 20:21
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: EFM
Lab File ID	: WG2084232.csv	Instrument ID	: TRACE9
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/20/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	0.0304	0.0100	0.0021	
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	12.0	0.100	0.0350	
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	ND	0.0100	0.0022	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0090	U
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	5.82	0.100	0.0153	
7439-96-5	Manganese, Dissolved	ND	0.0100	0.0016	U
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	1.24	2.50	0.237	J
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	16.9	2.00	0.120	
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	ND	0.0050	0.0021	U



Form 1 METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-05	Date Collected	: 06/18/25 13:20
Client ID	: MW-12S	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/27/25 20:11
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: EFM
Lab File ID	: WG2084232.csv	Instrument ID	: TRACE9
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/20/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	0.0393	0.0100	0.0021	
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	6.60	0.100	0.0350	
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	ND	0.0100	0.0022	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0090	U
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	2.61	0.100	0.0153	
7439-96-5	Manganese, Dissolved	0.0166	0.0100	0.0016	
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	1.00	2.50	0.237	J
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	39.3	2.00	0.120	
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	ND	0.0050	0.0021	U



Form 1 METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-06	Date Collected	: 06/18/25 13:22
Client ID	: MW-12D	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/27/25 19:25
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: EFM
Lab File ID	: WG2084232.csv	Instrument ID	: TRACE9
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/20/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	0.0366	0.0100	0.0021	
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	12.8	0.100	0.0350	
7440-47-3	Chromium, Dissolved	0.0037	0.0100	0.0021	J
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	ND	0.0100	0.0022	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0090	U
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	5.44	0.100	0.0153	
7439-96-5	Manganese, Dissolved	ND	0.0100	0.0016	U
7440-02-0	Nickel, Dissolved	0.0039	0.0250	0.0024	J
7440-09-7	Potassium, Dissolved	1.11	2.50	0.237	J
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	14.3	2.00	0.120	
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	0.0118	0.0050	0.0021	



Form 1 METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-07	Date Collected	: 06/18/25 12:00
Client ID	: DUP_06182025	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/27/25 20:14
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: EFM
Lab File ID	: WG2084232.csv	Instrument ID	: TRACE9
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/20/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Dissolved	ND	0.100	0.0318	U
7440-36-0	Antimony, Dissolved	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Dissolved	ND	0.0050	0.0019	U
7440-39-3	Barium, Dissolved	0.0406	0.0100	0.0021	
7440-41-7	Beryllium, Dissolved	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Dissolved	ND	0.0050	0.0010	U
7440-70-2	Calcium, Dissolved	6.82	0.100	0.0350	
7440-47-3	Chromium, Dissolved	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Dissolved	ND	0.0200	0.0017	U
7440-50-8	Copper, Dissolved	ND	0.0100	0.0022	U
7439-89-6	Iron, Dissolved	ND	0.0500	0.0090	U
7439-92-1	Lead, Dissolved	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Dissolved	2.66	0.100	0.0153	
7439-96-5	Manganese, Dissolved	0.0201	0.0100	0.0016	
7440-02-0	Nickel, Dissolved	ND	0.0250	0.0024	U
7440-09-7	Potassium, Dissolved	1.05	2.50	0.237	J
7782-49-2	Selenium, Dissolved	ND	0.0100	0.0035	U
7440-22-4	Silver, Dissolved	ND	0.0070	0.0028	U
7440-23-5	Sodium, Dissolved	40.3	2.00	0.120	
7440-28-0	Thallium, Dissolved	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Dissolved	ND	0.0100	0.0020	U
7440-66-6	Zinc, Dissolved	ND	0.0050	0.0021	U



Form 1 METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-01	Date Collected	: 06/18/25 09:00
Client ID	: MW-8S	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/27/25 09:13
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: DMC
Lab File ID	: WG2084179.csv	Instrument ID	: TRACE6
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/26/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	ND	0.100	0.0318	U
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	0.0375	0.0100	0.0021	
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	12.9	0.100	0.0350	
7440-47-3	Chromium, Total	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	ND	0.0500	0.0090	U
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	6.06	0.100	0.0153	
7439-96-5	Manganese, Total	0.0904	0.0100	0.0016	
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	1.11	2.50	0.237	J
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	8.61	2.00	0.120	
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	0.0024	0.0050	0.0021	J



Form 1 METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-02	Date Collected	: 06/18/25 09:05
Client ID	: MW-8D	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/27/25 09:20
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: DMC
Lab File ID	: WG2084179.csv	Instrument ID	: TRACE6
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/26/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	ND	0.100	0.0318	U
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	0.0323	0.0100	0.0021	
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	13.2	0.100	0.0350	
7440-47-3	Chromium, Total	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	ND	0.0500	0.0090	U
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	6.12	0.100	0.0153	
7439-96-5	Manganese, Total	ND	0.0100	0.0016	U
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	1.26	2.50	0.237	J
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	18.0	2.00	0.120	
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	0.0021	0.0050	0.0021	J



Form 1 METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-03	Date Collected	: 06/18/25 10:30
Client ID	: MW-5D	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/27/25 10:42
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: DMC
Lab File ID	: WG2084179.csv	Instrument ID	: TRACE6
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/26/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	ND	0.100	0.0318	U
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	0.0500	0.0100	0.0021	
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	16.5	0.100	0.0350	
7440-47-3	Chromium, Total	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	ND	0.0500	0.0090	U
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	7.56	0.100	0.0153	
7439-96-5	Manganese, Total	ND	0.0100	0.0016	U
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	1.35	2.50	0.237	J
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	20.7	2.00	0.120	
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	ND	0.0050	0.0021	U



Form 1 METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-04	Date Collected	: 06/18/25 10:45
Client ID	: PZ-5	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/27/25 10:35
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: DMC
Lab File ID	: WG2084179.csv	Instrument ID	: TRACE6
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/26/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	ND	0.100	0.0318	U
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	0.0231	0.0100	0.0021	
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	32.5	0.100	0.0350	
7440-47-3	Chromium, Total	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	ND	0.0500	0.0090	U
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	7.45	0.100	0.0153	
7439-96-5	Manganese, Total	ND	0.0100	0.0016	U
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	1.19	2.50	0.237	J
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	2.36	2.00	0.120	
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	ND	0.0050	0.0021	U



Form 1 METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-05	Date Collected	: 06/18/25 13:20
Client ID	: MW-12S	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/27/25 10:49
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: DMC
Lab File ID	: WG2084179.csv	Instrument ID	: TRACE6
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/26/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	ND	0.100	0.0318	U
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	0.0419	0.0100	0.0021	
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	7.12	0.100	0.0350	
7440-47-3	Chromium, Total	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	ND	0.0500	0.0090	U
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	2.77	0.100	0.0153	
7439-96-5	Manganese, Total	0.0184	0.0100	0.0016	
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	1.06	2.50	0.237	J
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	43.6	2.00	0.120	
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	0.0036	0.0050	0.0021	J



Form 1 METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-06	Date Collected	: 06/18/25 13:22
Client ID	: MW-12D	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/27/25 09:33
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: DMC
Lab File ID	: WG2084179.csv	Instrument ID	: TRACE6
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/26/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	0.0405	0.100	0.0318	J
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	0.0401	0.0100	0.0021	
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	14.3	0.100	0.0350	
7440-47-3	Chromium, Total	0.0038	0.0100	0.0021	J
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	0.0338	0.0500	0.0090	J
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	5.84	0.100	0.0153	
7439-96-5	Manganese, Total	ND	0.0100	0.0016	U
7440-02-0	Nickel, Total	0.0033	0.0250	0.0024	J
7440-09-7	Potassium, Total	1.15	2.50	0.237	J
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	15.5	2.00	0.120	
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	0.0156	0.0050	0.0021	



Form 1 METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-07	Date Collected	: 06/18/25 12:00
Client ID	: DUP_06182025	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/27/25 11:20
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 19,200.7	Analyst	: DMC
Lab File ID	: WG2084179.csv	Instrument ID	: TRACE6
Sample Amount	: 50ml	%Solids	: N/A
Digestion Method	: EPA 3005A	Date Digested	: 06/26/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	ND	0.100	0.0318	U
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	0.0424	0.0100	0.0021	
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	7.38	0.100	0.0350	
7440-47-3	Chromium, Total	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	ND	0.0500	0.0090	U
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	2.81	0.100	0.0153	
7439-96-5	Manganese, Total	0.0184	0.0100	0.0016	
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	1.04	2.50	0.237	J
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	43.0	2.00	0.120	
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	0.0021	0.0050	0.0021	J



Form 1 METALS

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Lab ID : WG2084038-1
Client ID : WG2084038-1BLANK
Sample Location :
Sample Matrix : WATER
Analytical Method : 19,200.7
Lab File ID : WG2084179.csv
Sample Amount : 50ml
Digestion Method : EPA 3005A

Lab Number : L2538382
Project Number : 2232.0006Y005
Date Collected : NA
Date Received : NA
Date Analyzed : 06/27/25 09:00
Dilution Factor : 1
Analyst : DMC
Instrument ID : TRACE6
%Solids : N/A
Date Digested : 06/26/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	ND	0.100	0.0318	U
7440-36-0	Antimony, Total	ND	0.0500	0.0071	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0019	U
7440-39-3	Barium, Total	ND	0.0100	0.0021	U
7440-41-7	Beryllium, Total	ND	0.0050	0.0009	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0010	U
7440-70-2	Calcium, Total	ND	0.100	0.0350	U
7440-47-3	Chromium, Total	ND	0.0100	0.0021	U
7440-48-4	Cobalt, Total	ND	0.0200	0.0017	U
7440-50-8	Copper, Total	ND	0.0100	0.0022	U
7439-89-6	Iron, Total	ND	0.0500	0.0090	U
7439-92-1	Lead, Total	ND	0.0100	0.0027	U
7439-95-4	Magnesium, Total	ND	0.100	0.0153	U
7439-96-5	Manganese, Total	ND	0.0100	0.0016	U
7440-02-0	Nickel, Total	ND	0.0250	0.0024	U
7440-09-7	Potassium, Total	ND	2.50	0.237	U
7782-49-2	Selenium, Total	ND	0.0100	0.0035	U
7440-22-4	Silver, Total	ND	0.0070	0.0028	U
7440-23-5	Sodium, Total	ND	2.00	0.120	U
7440-28-0	Thallium, Total	ND	0.0200	0.0025	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0020	U
7440-66-6	Zinc, Total	ND	0.0050	0.0021	U



Form 1

METALS

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Lab ID : WG2084038-10
Client ID : Serial Dilution
Sample Location :
Sample Matrix : WATER
Analytical Method : 19,200.7
Lab File ID : WG2084179.csv
Sample Amount : 50ml
Digestion Method : EPA 3005A

Lab Number : L2538382
Project Number : 2232.0006Y005
Date Collected :
Date Received :
Date Analyzed : 06/27/25 09:59
Dilution Factor : 5
Analyst : DMC
Instrument ID : TRACE6
%Solids : N/A
Date Digested : 06/26/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7440-70-2	Calcium, Total	14.3	0.500	0.175	
7439-95-4	Magnesium, Total	5.94	0.500	0.077	



Form 2A

Initial and Continuing Calibration Verification

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : TRACE6

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Units : mg/l

Parameter	Initial Calibration			Continuing Calibration(s)						
	True	Found	%R	True	Found	%R	Found	%R	Found	%R
Aluminum	0.500	0.5080	102							
Antimony	0.500	0.4860	97							
Arsenic	0.500	0.4900	98							
Barium	0.500	0.5070	101							
Beryllium	0.500	0.5160	103							
Cadmium	0.500	0.5100	102							
Calcium	0.500	0.5230	105							
Chromium	0.500	0.5150	103							
Cobalt	0.500	0.5240	105							
Copper	0.500	0.5080	102							
Iron	0.500	0.5250	105							
Lead	0.500	0.4990	100							
Magnesium	0.500	0.5300	106							
Manganese	0.500	0.5240	105							
Nickel	0.500	0.4900	98							
Potassium	5.00	5.2300	105							
Selenium	0.500	0.5060	101							
Silver	0.500	0.5160	103							
Sodium	10.0	10.0000	100							
Thallium	0.500	0.5090	102							
Vanadium	0.500	0.5170	103							
Zinc	0.500	0.5160	103							

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	77-123%	(Method 1631)
	76-113%	(Method 245.7)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Method 200.8)
	80-120%	(Methods 7470, 7471)
	77-123%	(Method 1631)
	76-113%	(Method 245.7)



Form 2A

Initial and Continuing Calibration Verification

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : TRACE6

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Units : mg/l

Parameter	Initial Calibration			Continuing Calibration(s)							
	Lab ID	: R1981541-3		R1981541-6			R1981541-8		R1981541-10		
	Date Analyzed:	06/26/25 06:54		06/26/25 08:15			06/26/25 09:40		06/26/25 10:50		
	True	Found	%R	True	Found	%R	Found	%R	Found	%R	
Aluminum	0.500	0.5000	100	0.5000	0.510	102	0.498	100	0.492	98	
Antimony	0.500	0.4780	96	0.5000	0.480	96	0.483	97	0.480	96	
Arsenic	0.500	0.4860	97	0.5000	0.476	95	0.468	94	0.464	93	
Barium	0.500	0.5000	100	0.5000	0.505	101	0.496	99	0.486	97	
Beryllium	0.500	0.5060	101	0.5000	0.512	102	0.501	100	0.493	99	
Cadmium	0.500	0.4980	100	0.5000	0.490	98	0.486	97	0.476	95	
Calcium	0.500	0.5090	102	0.5000	0.524	105	0.512	102	0.507	101	
Chromium	0.500	0.5090	102	0.5000	0.517	103	0.518	104	0.516	103	
Cobalt	0.500	0.5150	103	0.5000	0.519	104	0.514	103	0.511	102	
Copper	0.500	0.5010	100	0.5000	0.506	101	0.494	99	0.493	99	
Iron	0.500	0.5140	103	0.5000	0.517	103	0.505	101	0.492	98	
Lead	0.500	0.4910	98	0.5000	0.487	97	0.489	98	0.485	97	
Magnesium	0.500	0.5260	105	0.5000	0.525	105	0.518	104	0.512	102	
Manganese	0.500	0.5140	103	0.5000	0.522	104	0.512	102	0.504	101	
Nickel	0.500	0.4820	96	0.5000	0.473	95	0.481	96	0.475	95	
Potassium	5.00	5.2200	104	5.0000	5.43	109	5.22	104	5.19	104	
Selenium	0.500	0.5010	100	0.5000	0.509	102	0.499	100	0.500	100	
Silver	0.500	0.5090	102	0.5000	0.516	103	0.509	102	0.503	101	
Sodium	10.0	10.0000	100	10.0000	10.3	103	9.89	99	9.82	98	
Thallium	0.500	0.5010	100	0.5000	0.492	98	0.489	98	0.484	97	
Vanadium	0.500	0.5100	102	0.5000	0.507	101	0.509	102	0.500	100	
Zinc	0.500	0.5090	102	0.5000	0.510	102	0.508	102	0.506	101	

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	77-123%	(Method 1631)
	76-113%	(Method 245.7)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Method 200.8)
	80-120%	(Methods 7470, 7471)
	77-123%	(Method 1631)
	76-113%	(Method 245.7)



Form 2A

Initial and Continuing Calibration Verification

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : TRACE6

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Units : mg/l

Parameter	Lab ID : Date Analyzed :	Initial Calibration			Continuing Calibration(s)						
		True	Found	%R	R1981541-12 06/26/25 13:00			R1981541-14 06/26/25 13:53		R1981541-16 06/26/25 16:14	
					True	Found	%R	Found	%R	Found	%R
Aluminum					0.5000	0.498	100	0.496	99	0.496	99
Antimony					0.5000	0.477	95	0.472	94	0.476	95
Arsenic					0.5000	0.464	93	0.456	91	0.465	93
Barium					0.5000	0.491	98	0.486	97	0.492	98
Beryllium					0.5000	0.495	99	0.490	98	0.494	99
Cadmium					0.5000	0.484	97	0.476	95	0.486	97
Calcium					0.5000	0.508	102	0.503	101	0.502	100
Chromium					0.5000	0.517	103	0.520	104	0.513	103
Cobalt					0.5000	0.512	102	0.511	102	0.516	103
Copper					0.5000	0.492	98	0.492	98	0.500	100
Iron					0.5000	0.497	99	0.489	98	0.493	99
Lead					0.5000	0.485	97	0.477	95	0.482	96
Magnesium					0.5000	0.518	104	0.515	103	0.519	104
Manganese					0.5000	0.504	101	0.499	100	0.499	100
Nickel					0.5000	0.474	95	0.462	92	0.471	94
Potassium					5.0000	5.29	106	5.26	105	5.28	106
Selenium					0.5000	0.497	99	0.496	99	0.499	100
Silver					0.5000	0.507	101	0.504	101	0.511	102
Sodium					10.0000	9.96	100	9.96	100	9.97	100
Thallium					0.5000	0.487	97	0.476	95	0.485	97
Vanadium					0.5000	0.504	101	0.500	100	0.504	101
Zinc					0.5000	0.507	101	0.503	101	0.505	101

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	77-123%	(Method 1631)
	76-113%	(Method 245.7)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Method 200.8)
	80-120%	(Methods 7470, 7471)
	77-123%	(Method 1631)
	76-113%	(Method 245.7)



Form 2A

Initial and Continuing Calibration Verification

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : TRACE6

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Units : mg/l

Parameter	Initial Calibration			Continuing Calibration(s)						
	True	Found	%R	True	Found	%R	Found	%R	Found	%R
Aluminum				0.5000	0.497	99				
Antimony				0.5000	0.482	96				
Arsenic				0.5000	0.465	93				
Barium				0.5000	0.492	98				
Beryllium				0.5000	0.489	98				
Cadmium				0.5000	0.480	96				
Calcium				0.5000	0.496	99				
Chromium				0.5000	0.510	102				
Cobalt				0.5000	0.511	102				
Copper				0.5000	0.497	99				
Iron				0.5000	0.507	101				
Lead				0.5000	0.486	97				
Magnesium				0.5000	0.515	103				
Manganese				0.5000	0.493	99				
Nickel				0.5000	0.478	96				
Potassium				5.0000	5.30	106				
Selenium				0.5000	0.497	99				
Silver				0.5000	0.506	101				
Sodium				10.0000	9.97	100				
Thallium				0.5000	0.487	97				
Vanadium				0.5000	0.502	100				
Zinc				0.5000	0.504	101				

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	77-123%	(Method 1631)
	76-113%	(Method 245.7)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Method 200.8)
	80-120%	(Methods 7470, 7471)
	77-123%	(Method 1631)
	76-113%	(Method 245.7)



Form 2A

Initial and Continuing Calibration Verification

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : TRACE9

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Units : mg/l

Parameter	Initial Calibration			Continuing Calibration(s)						
	True	Found	%R	True	Found	%R	Found	%R	Found	%R
Aluminum	0.500	0.4850	97							
Antimony	0.500	0.4960	99							
Arsenic	0.500	0.4730	95							
Barium	0.500	0.4950	99							
Beryllium	0.500	0.5020	100							
Cadmium	0.500	0.4880	98							
Calcium	0.500	0.5060	101							
Chromium	0.500	0.5250	105							
Cobalt	0.500	0.5070	101							
Copper	0.500	0.4950	99							
Iron	0.500	0.5060	101							
Lead	0.500	0.5050	101							
Magnesium	0.500	0.5280	106							
Manganese	0.500	0.5040	101							
Nickel	0.500	0.5340	107							
Potassium	5.00	5.0700	101							
Selenium	0.500	0.4820	96							
Silver	0.500	0.5300	106							
Sodium	10.0	10.0000	100							
Thallium	0.500	0.5030	101							
Vanadium	0.500	0.4940	99							
Zinc	0.500	0.5270	105							

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	77-123%	(Method 1631)
	76-113%	(Method 245.7)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Method 200.8)
	80-120%	(Methods 7470, 7471)
	77-123%	(Method 1631)
	76-113%	(Method 245.7)



Form 2A

Initial and Continuing Calibration Verification

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : TRACE9

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Units : mg/l

Parameter	Initial Calibration			Continuing Calibration(s)							
	Lab ID	: R1982031-3		R1982031-6			R1982031-8		R1982031-10		
	Date Analyzed:	06/27/25 09:47		06/27/25 10:20			06/27/25 10:40		06/27/25 11:27		
	True	Found	%R	True	Found	%R	Found	%R	Found	%R	
Aluminum	0.500	0.4810	96	0.5000	0.490	98	0.489	98	0.484	97	
Antimony	0.500	0.4890	98	0.5000	0.500	100	0.489	98	0.491	98	
Arsenic	0.500	0.4740	95	0.5000	0.477	95	0.476	95	0.471	94	
Barium	0.500	0.4960	99	0.5000	0.500	100	0.499	100	0.496	99	
Beryllium	0.500	0.5040	101	0.5000	0.506	101	0.505	101	0.501	100	
Cadmium	0.500	0.4810	96	0.5000	0.478	96	0.483	97	0.479	96	
Calcium	0.500	0.4840	97	0.5000	0.508	102	0.510	102	0.500	100	
Chromium	0.500	0.5200	104	0.5000	0.521	104	0.521	104	0.520	104	
Cobalt	0.500	0.5020	100	0.5000	0.505	101	0.504	101	0.502	100	
Copper	0.500	0.4960	99	0.5000	0.507	101	0.497	99	0.497	99	
Iron	0.500	0.5060	101	0.5000	0.508	102	0.515	103	0.500	100	
Lead	0.500	0.5060	101	0.5000	0.511	102	0.508	102	0.506	101	
Magnesium	0.500	0.5180	104	0.5000	0.520	104	0.522	104	0.515	103	
Manganese	0.500	0.5030	101	0.5000	0.506	101	0.500	100	0.499	100	
Nickel	0.500	0.5270	105	0.5000	0.527	105	0.524	105	0.526	105	
Potassium	5.00	5.0800	102	5.0000	5.19	104	5.12	102	5.09	102	
Selenium	0.500	0.4830	97	0.5000	0.488	98	0.486	97	0.482	96	
Silver	0.500	0.5260	105	0.5000	0.537	107	0.534	107	0.531	106	
Sodium	10.0	10.0000	100	10.0000	10.3	103	10.1	101	10.2	102	
Thallium	0.500	0.5050	101	0.5000	0.515	103	0.510	102	0.507	101	
Vanadium	0.500	0.4920	98	0.5000	0.497	99	0.492	98	0.492	98	
Zinc	0.500	0.5200	104	0.5000	0.513	103	0.516	103	0.515	103	

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	77-123%	(Method 1631)
	76-113%	(Method 245.7)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Method 200.8)
	80-120%	(Methods 7470, 7471)
	77-123%	(Method 1631)
	76-113%	(Method 245.7)



Form 2A

Initial and Continuing Calibration Verification

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : TRACE9

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Units : mg/l

Parameter	Initial Calibration			Continuing Calibration(s)							
	Lab ID : Date Analyzed :			R1982031-12 06/27/25 12:31			R1982031-14 06/27/25 13:14		R1982031-16 06/27/25 13:54		
	True	Found	%R	True	Found	%R	Found	%R	Found	%R	
Aluminum				0.5000	0.488	98	0.488	98	0.479	96	
Antimony				0.5000	0.489	98	0.497	99	0.497	99	
Arsenic				0.5000	0.475	95	0.477	95	0.473	95	
Barium				0.5000	0.500	100	0.502	100	0.496	99	
Beryllium				0.5000	0.502	100	0.502	100	0.500	100	
Cadmium				0.5000	0.476	95	0.480	96	0.478	96	
Calcium				0.5000	0.497	99	0.498	100	0.488	98	
Chromium				0.5000	0.517	103	0.519	104	0.518	104	
Cobalt				0.5000	0.500	100	0.501	100	0.498	100	
Copper				0.5000	0.496	99	0.502	100	0.499	100	
Iron				0.5000	0.504	101	0.505	101	0.501	100	
Lead				0.5000	0.504	101	0.507	101	0.505	101	
Magnesium				0.5000	0.517	103	0.517	103	0.512	102	
Manganese				0.5000	0.500	100	0.499	100	0.498	100	
Nickel				0.5000	0.520	104	0.521	104	0.522	104	
Potassium				5.0000	5.09	102	5.19	104	5.10	102	
Selenium				0.5000	0.487	97	0.490	98	0.482	96	
Silver				0.5000	0.529	106	0.535	107	0.529	106	
Sodium				10.0000	10.1	101	10.4	104	10.2	102	
Thallium				0.5000	0.508	102	0.512	102	0.506	101	
Vanadium				0.5000	0.490	98	0.493	99	0.492	98	
Zinc				0.5000	0.509	102	0.511	102	0.508	102	

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	77-123%	(Method 1631)
	76-113%	(Method 245.7)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Method 200.8)
	80-120%	(Methods 7470, 7471)
	77-123%	(Method 1631)
	76-113%	(Method 245.7)



Form 2A

Initial and Continuing Calibration Verification

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : TRACE9

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Units : mg/l

Parameter	Lab ID : Date Analyzed :	Initial Calibration			Continuing Calibration(s)						
		True	Found	%R	R1982031-18 06/27/25 15:00			R1982031-20 06/27/25 15:43		R1982031-22 06/27/25 16:47	
					True	Found	%R	Found	%R	Found	%R
Aluminum					0.5000	0.485	97	0.485	97	0.482	96
Antimony					0.5000	0.490	98	0.488	98	0.487	97
Arsenic					0.5000	0.474	95	0.473	95	0.467	93
Barium					0.5000	0.497	99	0.499	100	0.494	99
Beryllium					0.5000	0.499	100	0.498	100	0.494	99
Cadmium					0.5000	0.474	95	0.470	94	0.464	93
Calcium					0.5000	0.486	97	0.483	97	0.481	96
Chromium					0.5000	0.518	104	0.514	103	0.508	102
Cobalt					0.5000	0.496	99	0.497	99	0.490	98
Copper					0.5000	0.498	100	0.500	100	0.499	100
Iron					0.5000	0.502	100	0.503	101	0.493	99
Lead					0.5000	0.505	101	0.503	101	0.499	100
Magnesium					0.5000	0.514	103	0.508	102	0.501	100
Manganese					0.5000	0.494	99	0.495	99	0.494	99
Nickel					0.5000	0.520	104	0.519	104	0.510	102
Potassium					5.0000	5.14	103	5.18	104	5.12	102
Selenium					0.5000	0.483	97	0.485	97	0.478	96
Silver					0.5000	0.532	106	0.529	106	0.525	105
Sodium					10.0000	10.3	103	10.4	104	10.3	103
Thallium					0.5000	0.509	102	0.510	102	0.504	101
Vanadium					0.5000	0.488	98	0.485	97	0.484	97
Zinc					0.5000	0.507	101	0.503	101	0.493	99

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	77-123%	(Method 1631)
	76-113%	(Method 245.7)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Method 200.8)
	80-120%	(Methods 7470, 7471)
	77-123%	(Method 1631)
	76-113%	(Method 245.7)



Form 2A

Initial and Continuing Calibration Verification

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : TRACE9

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Units : mg/l

Parameter	Lab ID : Date Analyzed :	Initial Calibration			Continuing Calibration(s)						
		True	Found	%R	R1982031-24 06/27/25 17:44			R1982031-26 06/27/25 19:09		R1982031-28 06/27/25 20:01	
					True	Found	%R	Found	%R	Found	%R
Aluminum					0.5000	0.487	97	0.484	97	0.475	95
Antimony					0.5000	0.482	96	0.477	95	0.483	97
Arsenic					0.5000	0.466	93	0.466	93	0.462	92
Barium					0.5000	0.496	99	0.489	98	0.488	98
Beryllium					0.5000	0.495	99	0.492	98	0.490	98
Cadmium					0.5000	0.462	92	0.460	92	0.460	92
Calcium					0.5000	0.477	95	0.476	95	0.481	96
Chromium					0.5000	0.506	101	0.503	101	0.501	100
Cobalt					0.5000	0.491	98	0.490	98	0.488	98
Copper					0.5000	0.495	99	0.494	99	0.491	98
Iron					0.5000	0.499	100	0.493	99	0.493	99
Lead					0.5000	0.496	99	0.495	99	0.489	98
Magnesium					0.5000	0.503	101	0.502	100	0.501	100
Manganese					0.5000	0.493	99	0.490	98	0.494	99
Nickel					0.5000	0.507	101	0.502	100	0.499	100
Potassium					5.0000	5.20	104	5.08	102	5.06	101
Selenium					0.5000	0.478	96	0.469	94	0.468	94
Silver					0.5000	0.523	105	0.521	104	0.518	104
Sodium					10.0000	10.3	103	10.1	101	10.0	100
Thallium					0.5000	0.504	101	0.499	100	0.496	99
Vanadium					0.5000	0.483	97	0.483	97	0.482	96
Zinc					0.5000	0.491	98	0.486	97	0.486	97

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	77-123%	(Method 1631)
	76-113%	(Method 245.7)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Method 200.8)
	80-120%	(Methods 7470, 7471)
	77-123%	(Method 1631)
	76-113%	(Method 245.7)



Form 2A

Initial and Continuing Calibration Verification

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : TRACE9

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Units : mg/l

Parameter	Initial Calibration			Continuing Calibration(s)						
	True	Found	%R	True	Found	%R	Found	%R	Found	%R
Aluminum				0.5000	0.486	97				
Antimony				0.5000	0.487	97				
Arsenic				0.5000	0.467	93				
Barium				0.5000	0.491	98				
Beryllium				0.5000	0.495	99				
Cadmium				0.5000	0.459	92				
Calcium				0.5000	0.471	94				
Chromium				0.5000	0.505	101				
Cobalt				0.5000	0.491	98				
Copper				0.5000	0.497	99				
Iron				0.5000	0.494	99				
Lead				0.5000	0.499	100				
Magnesium				0.5000	0.502	100				
Manganese				0.5000	0.492	98				
Nickel				0.5000	0.502	100				
Potassium				5.0000	5.10	102				
Selenium				0.5000	0.472	94				
Silver				0.5000	0.523	105				
Sodium				10.0000	10.2	102				
Thallium				0.5000	0.504	101				
Vanadium				0.5000	0.487	97				
Zinc				0.5000	0.485	97				

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	77-123%	(Method 1631)
	76-113%	(Method 245.7)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Method 200.8)
	80-120%	(Methods 7470, 7471)
	77-123%	(Method 1631)
	76-113%	(Method 245.7)



Form 2A

Initial and Continuing Calibration Verification

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : TRACE6

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Units : mg/l

Parameter	Initial Calibration			Continuing Calibration(s)						
	True	Found	%R	True	Found	%R	Found	%R	Found	%R
Aluminum	0.500	0.5120	102							
Antimony	0.500	0.4850	97							
Arsenic	0.500	0.4840	97							
Barium	0.500	0.5100	102							
Beryllium	0.500	0.5220	104							
Cadmium	0.500	0.5080	102							
Calcium	0.500	0.5260	105							
Chromium	0.500	0.5060	101							
Cobalt	0.500	0.5170	103							
Copper	0.500	0.4970	99							
Iron	0.500	0.5280	106							
Lead	0.500	0.5030	101							
Magnesium	0.500	0.5180	104							
Manganese	0.500	0.5270	105							
Nickel	0.500	0.4950	99							
Potassium	5.00	5.2200	104							
Selenium	0.500	0.4950	99							
Silver	0.500	0.5030	101							
Sodium	10.0	10.4000	104							
Thallium	0.500	0.5130	103							
Vanadium	0.500	0.5060	101							
Zinc	0.500	0.5170	103							

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	77-123%	(Method 1631)
	76-113%	(Method 245.7)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Method 200.8)
	80-120%	(Methods 7470, 7471)
	77-123%	(Method 1631)
	76-113%	(Method 245.7)



Form 2A

Initial and Continuing Calibration Verification

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : TRACE6

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Units : mg/l

Parameter	Initial Calibration			Continuing Calibration(s)						
	Lab ID	: R1982044-3		R1982044-6			R1982044-8		R1982044-10	
	Date Analyzed:	06/27/25 07:02		06/27/25 08:43			06/27/25 10:05		06/27/25 11:31	
	True	Found	%R	True	Found	%R	Found	%R	Found	%R
Aluminum	0.500	0.5060	101	0.5000	0.466	93	0.510	102	0.501	100
Antimony	0.500	0.4850	97	0.5000	0.480	96	0.487	97	0.479	96
Arsenic	0.500	0.4810	96	0.5000	0.479	96	0.478	96	0.467	93
Barium	0.500	0.5000	100	0.5000	0.461	92	0.503	101	0.494	99
Beryllium	0.500	0.5100	102	0.5000	0.472	94	0.510	102	0.499	100
Cadmium	0.500	0.5140	103	0.5000	0.501	100	0.495	99	0.485	97
Calcium	0.500	0.5130	103	0.5000	0.478	96	0.511	102	0.502	100
Chromium	0.500	0.5210	104	0.5000	0.508	102	0.503	101	0.508	102
Cobalt	0.500	0.5300	106	0.5000	0.515	103	0.515	103	0.508	102
Copper	0.500	0.5120	102	0.5000	0.495	99	0.502	100	0.491	98
Iron	0.500	0.5140	103	0.5000	0.480	96	0.519	104	0.502	100
Lead	0.500	0.4980	100	0.5000	0.494	99	0.496	99	0.488	98
Magnesium	0.500	0.5310	106	0.5000	0.522	104	0.520	104	0.511	102
Manganese	0.500	0.5160	103	0.5000	0.481	96	0.517	103	0.506	101
Nickel	0.500	0.4910	98	0.5000	0.486	97	0.490	98	0.480	96
Potassium	5.00	5.2200	104	5.0000	5.04	101	5.10	102	5.16	103
Selenium	0.500	0.4950	99	0.5000	0.493	99	0.495	99	0.491	98
Silver	0.500	0.5140	103	0.5000	0.506	101	0.503	101	0.500	100
Sodium	10.0	10.3000	103	10.0000	9.35	94	10.2	102	10.3	103
Thallium	0.500	0.5080	102	0.5000	0.502	100	0.505	101	0.494	99
Vanadium	0.500	0.5210	104	0.5000	0.506	101	0.506	101	0.502	100
Zinc	0.500	0.5100	102	0.5000	0.510	102	0.505	101	0.502	100

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	77-123%	(Method 1631)
	76-113%	(Method 245.7)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Method 200.8)
	80-120%	(Methods 7470, 7471)
	77-123%	(Method 1631)
	76-113%	(Method 245.7)



Form 2A

Initial and Continuing Calibration Verification

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : TRACE8

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Units : mg/l

Parameter	Lab ID : Date Analyzed :	Initial Calibration			Continuing Calibration(s)						
		True	Found	%R	True	Found	%R	Found	%R	Found	%R
Aluminum		0.500	0.4820	96							
Sodium		10.0	10.2000	102							

Acceptance Criteria:

ICV: 95-105% (Methods 200.7, 245.1)
 90-110% (Methods 200.8, 6010, 6020, 7470, 7471, 7474)
 77-123% (Method 1631)
 76-113% (Method 245.7)

CCV: 90-110% (Methods 200.7, 245.1, 6010, 6020, 7474)
 85-115% (Method 200.8)
 80-120% (Methods 7470, 7471)
 77-123% (Method 1631)
 76-113% (Method 245.7)



Form 2A

Initial and Continuing Calibration Verification

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : TRACE8

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Units : mg/l

Parameter	Lab ID : Date Analyzed :	Initial Calibration			Continuing Calibration(s)						
		R1982073-3			R1982073-6			R1982073-8		R1982073-10	
		06/27/25 08:28			06/27/25 10:17			06/27/25 11:41		06/27/25 12:27	
		True	Found	%R	True	Found	%R	Found	%R	Found	%R
Aluminum		0.500	0.5010	100	0.5000	0.480	96	0.480	96	0.486	97
Sodium		10.0	10.5000	105	10.0000	10.3	103	10.3	103	10.4	104

Acceptance Criteria:

ICV: 95-105% (Methods 200.7, 245.1)
 90-110% (Methods 200.8, 6010, 6020, 7470, 7471, 7474)
 77-123% (Method 1631)
 76-113% (Method 245.7)

CCV: 90-110% (Methods 200.7, 245.1, 6010, 6020, 7474)
 85-115% (Method 200.8)
 80-120% (Methods 7470, 7471)
 77-123% (Method 1631)
 76-113% (Method 245.7)



Form 2A

Initial and Continuing Calibration Verification

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : TRACE8

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Units : mg/l

Parameter	Initial Calibration			Continuing Calibration(s)						
	True	Found	%R	True	Found	%R	Found	%R	Found	%R
Aluminum				0.5000	0.509	102				
Sodium				10.0000	11.0	110				

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	77-123%	(Method 1631)
	76-113%	(Method 245.7)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Method 200.8)
	80-120%	(Methods 7470, 7471)
	77-123%	(Method 1631)
	76-113%	(Method 245.7)



Form 3 Blanks

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Instrument ID : TRACE6

Lab Number : L2538382
Project Number : 2232.0006Y005

Parameter	Initial Calibration		Continuing Calibration				Preparation	
	Blank		Blank(s)				Blank	
	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Aluminum	0.0318	U	0.0318	U	0.0318	U	0.0318	U
Antimony	0.00710	U	0.00710	U	0.00710	U	0.0071	U
Arsenic	0.00190	U	0.00190	U	0.00190	U	0.0019	U
Barium	0.00210	U	0.00210	U	0.00210	U	0.0021	U
Beryllium	0.000900	U	0.000900	U	0.000900	U	0.0009	U
Cadmium	0.00100	U	0.00100	U	0.00100	U	0.0010	U
Calcium	0.0350	U	0.0350	U	0.0350	U	0.0350	U
Chromium	0.00210	U	0.00210	U	0.00210	U	0.0021	U
Cobalt	0.00170	U	0.00170	U	0.00170	U	0.0017	U
Copper	0.00220	U	0.00220	U	0.00220	U	0.0022	U
Iron	0.00900	U	0.00900	U	0.00900	U	0.0090	U
Lead	0.00270	U	0.00270	U	0.00270	U	0.0027	U
Magnesium	0.0153	U	0.0153	U	0.0153	U	0.0153	U
Manganese	0.00160	U	0.00160	U	0.00160	U	0.0016	U
Nickel	0.00240	U	0.00240	U	0.00240	U	0.0024	U
Potassium	0.237	U	0.237	U	0.237	U	0.237	U
Selenium	0.00350	U	0.00350	U	0.00350	U	0.0035	U
Silver	0.00280	U	0.00280	U	0.00280	U	0.0028	U
Sodium	0.120	U	0.120	U	0.120	U	0.120	U
Thallium	0.00250	U	0.00250	U	0.00250	U	0.0025	U
Vanadium	0.00200	U	0.00200	U	0.00200	U	0.0020	U
Zinc	0.00210	U	0.00210	U	0.00210	U	0.0021	U



Form 3 Blanks

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Instrument ID : TRACE6

Lab Number : L2538382
Project Number : 2232.0006Y005

Parameter	Initial Calibration Blank		Continuing Calibration Blank(s)				Preparation Blank	
	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Aluminum	0.0318	U	0.0318	U	0.0318	U	0.0318	U
Antimony	0.00710	U	0.00710	U	0.00710	U	0.00710	U
Arsenic	0.00190	U	0.00190	U	0.00190	U	0.00190	U
Barium	0.00210	U	0.00210	U	0.00210	U	0.00210	U
Beryllium	0.000900	U	0.000900	U	0.000900	U	0.000900	U
Cadmium	0.00100	U	0.00100	U	0.00100	U	0.00100	U
Calcium	0.0350	U	0.0350	U	0.0350	U	0.0350	U
Chromium	0.00210	U	0.00210	U	0.00210	U	0.00210	U
Cobalt	0.00170	U	0.00170	U	0.00170	U	0.00170	U
Copper	0.00220	U	0.00220	U	0.00220	U	0.00220	U
Iron	0.00900	U	0.00900	U	0.00900	U	0.00900	U
Lead	0.00270	U	0.00270	U	0.00270	U	0.00270	U
Magnesium	0.0153	U	0.0153	U	0.0153	U	0.0153	U
Manganese	0.00160	U	0.00160	U	0.00160	U	0.00160	U
Nickel	0.00240	U	0.00240	U	0.00240	U	0.00240	U
Potassium	0.237	U	0.237	U	0.237	U	0.237	U
Selenium	0.00350	U	0.00350	U	0.00350	U	0.00350	U
Silver	0.00280	U	0.00280	U	0.00280	U	0.00280	U
Sodium	0.120	U	0.120	U	0.120	U	0.120	U
Thallium	0.00250	U	0.00250	U	0.00250	U	0.00250	U
Vanadium	0.00200	U	0.00200	U	0.00200	U	0.00200	U
Zinc	0.00210	U	0.00210	U	0.00210	U	0.00210	U



Form 3 Blanks

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Instrument ID : TRACE6

Lab Number : L2538382
Project Number : 2232.0006Y005

Parameter	Initial Calibration Blank		Continuing Calibration Blank(s)				Preparation Blank	
	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Aluminum			0.0318	U				
Antimony			0.00710	U				
Arsenic			0.00190	U				
Barium			0.00210	U				
Beryllium			0.000900	U				
Cadmium			0.00100	U				
Calcium			0.0350	U				
Chromium			0.00210	U				
Cobalt			0.00170	U				
Copper			0.00220	U				
Iron			0.00900	U				
Lead			0.00270	U				
Magnesium			0.0153	U				
Manganese			0.00160	U				
Nickel			0.00240	U				
Potassium			0.237	U				
Selenium			0.00350	U				
Silver			0.00280	U				
Sodium			0.120	U				
Thallium			0.00250	U				
Vanadium			0.00200	U				
Zinc			0.00210	U				



Form 3 Blanks

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Instrument ID : TRACE9

Lab Number : L2538382
Project Number : 2232.0006Y005

Parameter	Initial Calibration Blank		Continuing Calibration Blank(s)				Preparation Blank	
	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Aluminum	0.0318	U	0.0318	U	0.0318	U	0.0318	U
Antimony	0.00710	U	0.00710	U	0.00710	U	0.00710	U
Arsenic	0.00190	U	0.00190	U	0.00190	U	0.00190	U
Barium	0.00210	U	0.00210	U	0.00210	U	0.00210	U
Beryllium	0.000900	U	0.000900	U	0.000900	U	0.000900	U
Cadmium	0.00100	U	0.00100	U	0.00100	U	0.00100	U
Calcium	0.0350	U	0.0350	U	0.0350	U	0.0350	U
Chromium	0.00210	U	0.00210	U	0.00210	U	0.00210	U
Cobalt	0.00170	U	0.00170	U	0.00170	U	0.00170	U
Copper	0.00220	U	0.00220	U	0.00220	U	0.00220	U
Iron	0.00900	U	0.00900	U	0.00900	U	0.00900	U
Lead	0.00270	U	0.00270	U	0.00270	U	0.00270	U
Magnesium	0.0153	U	0.0153	U	0.0153	U	0.0153	U
Manganese	0.00160	U	0.00160	U	0.00160	U	0.00160	U
Nickel	0.00240	U	0.00240	U	0.00240	U	0.00240	U
Potassium	0.237	U	0.237	U	0.237	U	0.237	U
Selenium	0.00350	U	0.00350	U	0.00350	U	0.00350	U
Silver	0.00280	U	0.00280	U	0.00280	U	0.00280	U
Sodium	0.120	U	0.120	U	0.120	U	0.120	U
Thallium	0.00250	U	0.00250	U	0.00250	U	0.00250	U
Vanadium	0.00200	U	0.00200	U	0.00200	U	0.00200	U
Zinc	0.00210	U	0.00210	U	0.00210	U	0.00210	U



Form 3 Blanks

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Instrument ID : TRACE9

Lab Number : L2538382
Project Number : 2232.0006Y005

Parameter	Initial Calibration Blank		Continuing Calibration Blank(s)				Preparation Blank	
	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Aluminum	0.0318	U	0.0318	U	0.0318	U	0.0318	U
Antimony	0.00710	U	0.00710	U	0.00710	U	0.00710	U
Arsenic	0.00190	U	0.00190	U	0.00190	U	0.00190	U
Barium	0.00210	U	0.00210	U	0.00210	U	0.00210	U
Beryllium	0.000900	U	0.000900	U	0.000900	U	0.000900	U
Cadmium	0.00100	U	0.00100	U	0.00100	U	0.00100	U
Calcium	0.0350	U	0.0350	U	0.0350	U	0.0350	U
Chromium	0.00210	U	0.00210	U	0.00210	U	0.00210	U
Cobalt	0.00170	U	0.00170	U	0.00170	U	0.00170	U
Copper	0.00220	U	0.00220	U	0.00220	U	0.00220	U
Iron	0.00900	U	0.00900	U	0.00900	U	0.00900	U
Lead	0.00270	U	0.00270	U	0.00270	U	0.00270	U
Magnesium	0.0153	U	0.0153	U	0.0153	U	0.0153	U
Manganese	0.00160	U	0.00160	U	0.00160	U	0.00160	U
Nickel	0.00240	U	0.00240	U	0.00240	U	0.00240	U
Potassium	0.237	U	0.237	U	0.237	U	0.237	U
Selenium	0.00350	U	0.00350	U	0.00350	U	0.00350	U
Silver	0.00280	U	0.00280	U	0.00280	U	0.00280	U
Sodium	0.120	U	0.120	U	0.120	U	0.120	U
Thallium	0.00250	U	0.00250	U	0.00250	U	0.00250	U
Vanadium	0.00200	U	0.00200	U	0.00200	U	0.00200	U
Zinc	0.00210	U	0.00210	U	0.00210	U	0.00210	U



Form 3 Blanks

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Instrument ID : TRACE9

Lab Number : L2538382
Project Number : 2232.0006Y005

Parameter	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank
	Lab ID : Date Analyzed :		R1982031-19 06/27/25 15:03		R1982031-21 06/27/25 15:46		R1982031-23 06/27/25 16:50		Q
	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q	
Aluminum			0.0318	U	0.0318	U	0.0318	U	
Antimony			0.00710	U	0.00710	U	0.00710	U	
Arsenic			0.00190	U	0.00190	U	0.00190	U	
Barium			0.00210	U	0.00210	U	0.00210	U	
Beryllium			0.000900	U	0.000900	U	0.000900	U	
Cadmium			0.00100	U	0.00100	U	0.00100	U	
Calcium			0.0350	U	0.0350	U	0.0350	U	
Chromium			0.00210	U	0.00210	U	0.00210	U	
Cobalt			0.00170	U	0.00170	U	0.00170	U	
Copper			0.00220	U	0.00220	U	0.00220	U	
Iron			0.00900	U	0.00900	U	0.00900	U	
Lead			0.00270	U	0.00270	U	0.00270	U	
Magnesium			0.0153	U	0.0153	U	0.0153	U	
Manganese			0.00160	U	0.00160	U	0.00160	U	
Nickel			0.00240	U	0.00240	U	0.00240	U	
Potassium			0.237	U	0.237	U	0.237	U	
Selenium			0.00350	U	0.00350	U	0.00350	U	
Silver			0.00280	U	0.00280	U	0.00280	U	
Sodium			0.120	U	0.120	U	0.120	U	
Thallium			0.00250	U	0.00250	U	0.00250	U	
Vanadium			0.00200	U	0.00200	U	0.00200	U	
Zinc			0.00210	U	0.00210	U	0.00210	U	



Form 3 Blanks

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Instrument ID : TRACE9

Lab Number : L2538382
Project Number : 2232.0006Y005

Parameter	Initial Calibration		Continuing Calibration						Preparation
	Blank		Blank(s)						Blank
	Lab ID	Date Analyzed	R1982031-25	06/27/25 17:48	R1982031-27	06/27/25 19:12	R1982031-29	06/27/25 20:05	
	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q	Q
Aluminum			0.0318	U	0.0318	U	0.0318	U	
Antimony			0.00710	U	0.00710	U	0.00710	U	
Arsenic			0.00190	U	0.00190	U	0.00190	U	
Barium			0.00210	U	0.00210	U	0.00210	U	
Beryllium			0.000900	U	0.000900	U	0.000900	U	
Cadmium			0.00100	U	0.00100	U	0.00100	U	
Calcium			0.0350	U	0.0350	U	0.0350	U	
Chromium			0.00210	U	0.00210	U	0.00210	U	
Cobalt			0.00170	U	0.00170	U	0.00170	U	
Copper			0.00220	U	0.00220	U	0.00220	U	
Iron			0.00900	U	0.00900	U	0.00900	U	
Lead			0.00270	U	0.00270	U	0.00270	U	
Magnesium			0.0153	U	0.0153	U	0.0153	U	
Manganese			0.00160	U	0.00160	U	0.00160	U	
Nickel			0.00240	U	0.00240	U	0.00240	U	
Potassium			0.237	U	0.237	U	0.237	U	
Selenium			0.00350	U	0.00350	U	0.00350	U	
Silver			0.00280	U	0.00280	U	0.00280	U	
Sodium			0.120	U	0.120	U	0.120	U	
Thallium			0.00250	U	0.00250	U	0.00250	U	
Vanadium			0.00200	U	0.00200	U	0.00200	U	
Zinc			0.00210	U	0.00210	U	0.00210	U	



Form 3 Blanks

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Instrument ID : TRACE9

Lab Number : L2538382
Project Number : 2232.0006Y005

Parameter	Initial Calibration Blank		Continuing Calibration Blank(s)				Preparation Blank		
	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q	Q
Aluminum			0.0318	U					
Antimony			0.00710	U					
Arsenic			0.00190	U					
Barium			0.00210	U					
Beryllium			0.000900	U					
Cadmium			0.00100	U					
Calcium			0.0350	U					
Chromium			0.00210	U					
Cobalt			0.00170	U					
Copper			0.00220	U					
Iron			0.00900	U					
Lead			0.00270	U					
Magnesium			0.0153	U					
Manganese			0.00160	U					
Nickel			0.00240	U					
Potassium			0.237	U					
Selenium			0.00350	U					
Silver			0.00280	U					
Sodium			0.120	U					
Thallium			0.00250	U					
Vanadium			0.00200	U					
Zinc			0.00210	U					



Form 3 Blanks

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Instrument ID : TRACE6

Lab Number : L2538382
Project Number : 2232.0006Y005

Parameter	Initial Calibration Blank		Continuing Calibration Blank(s)				Preparation Blank	
	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Aluminum	0.0318	U	0.0318	U	0.0318	U	0.0318	U
Antimony	0.00710	U	0.00710	U	0.00710	U	0.0071	U
Arsenic	0.00190	U	0.00190	U	0.00190	U	0.0019	U
Barium	0.00210	U	0.00210	U	0.00210	U	0.0021	U
Beryllium	0.000900	U	0.000900	U	0.000900	U	0.0009	U
Cadmium	0.00100	U	0.00100	U	0.00100	U	0.0010	U
Calcium	0.0350	U	0.0350	U	0.0350	U	0.0350	U
Chromium	0.00210	U	0.00210	U	0.00210	U	0.0021	U
Cobalt	0.00170	U	0.00170	U	0.00170	U	0.0017	U
Copper	0.00220	U	0.00220	U	0.00220	U	0.0022	U
Iron	0.00900	U	0.00900	U	0.00900	U	0.0090	U
Lead	0.00270	U	0.00270	U	0.00270	U	0.0027	U
Magnesium	0.0153	U	0.0153	U	0.0153	U	0.0153	U
Manganese	0.00160	U	0.00160	U	0.00160	U	0.0016	U
Nickel	0.00240	U	0.00240	U	0.00240	U	0.0024	U
Potassium	0.237	U	0.237	U	0.237	U	0.237	U
Selenium	0.00350	U	0.00350	U	0.00350	U	0.0035	U
Silver	0.00280	U	0.00280	U	0.00280	U	0.0028	U
Sodium	0.120	U	0.120	U	0.120	U	0.120	U
Thallium	0.00250	U	0.00250	U	0.00250	U	0.0025	U
Vanadium	0.00200	U	0.00200	U	0.00200	U	0.0020	U
Zinc	0.00210	U	0.00210	U	0.00210	U	0.0021	U



Form 3 Blanks

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Instrument ID :

Lab Number : L2538382
Project Number : 2232.0006Y005

Parameter	Initial Calibration Blank		Continuing Calibration Blank(s)			Preparation Blank	
	mg/l	Q	Q	Q	Q	Q	Q
Aluminum	0.0318	U					
Antimony	0.00710	U					
Arsenic	0.00190	U					
Barium	0.00210	U					
Beryllium	0.000900	U					
Cadmium	0.00100	U					
Calcium	0.0350	U					
Chromium	0.00210	U					
Cobalt	0.00170	U					
Copper	0.00220	U					
Iron	0.00900	U					
Lead	0.00270	U					
Magnesium	0.0153	U					
Manganese	0.00160	U					
Nickel	0.00240	U					
Potassium	0.237	U					
Selenium	0.00350	U					
Silver	0.00280	U					
Sodium	0.120	U					
Thallium	0.00250	U					
Vanadium	0.00200	U					
Zinc	0.00210	U					



Form 3 Blanks

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : TRACE8

Lab Number : L2538382
 Project Number : 2232.0006Y005

Parameter	Initial Calibration Blank		Continuing Calibration Blank(s)				Preparation Blank	
	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Lab ID :	R1982073-2		R1982073-7		R1982073-9		R1982073-11	
Date Analyzed :	06/27/25 08:25		06/27/25 10:20		06/27/25 11:45		06/27/25 12:30	
Aluminum	0.0318	U	0.0318	U	0.0318	U	0.0318	U
Sodium	0.120	U	0.120	U	0.120	U	0.120	U



Form 3 Blanks

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : TRACE8

Lab Number : L2538382
 Project Number : 2232.0006Y005

Parameter	Initial Calibration Blank		Continuing Calibration Blank(s)				Preparation Blank	
	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Lab ID :	R1982073-4		R1982073-13					
Date Analyzed :	06/27/25 08:31		06/27/25 13:13					
Aluminum	0.0318	U	0.0318	U				
Sodium	0.120	U	0.120	U				



Form 4a

Interference Check Sample

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : TRACE6

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Concentration Units : mg/l

Analyte	True		Initial Found		Final Found					
	Lab ID :		R1981541-5							
	Analysis Date :		06/26/25 07:17							
	Sol.	Sol.	Sol.		Sol.		Sol.		Sol.	
	A	AB	A	%R	AB	%R	A	%R	AB	%R
Aluminum	500		513.	103						
Antimony			-0.0310							
Arsenic			0.00135							
Barium			0.00207							
Beryllium			-0.0000333							
Cadmium			-0.00258							
Calcium	500		488.	98						
Chromium			-0.00204							
Cobalt			0.000310							
Copper			-0.00544							
Iron	200		181.	90						
Lead			-0.0129							
Magnesium	500		408.	82						
Manganese			0.00200							
Nickel			-0.0102							
Potassium			0.000958							
Selenium			0.00138							
Silver			0.000511							
Sodium			0.0151							
Thallium			-0.0184							
Vanadium			-0.00245							
Zinc			-0.00138							

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%



Form 4a

Interference Check Sample

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : TRACE9

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Concentration Units : mg/l

Analyte	True		Initial Found		Final Found					
	Lab ID :		R1982031-5							
	Analysis Date :		06/27/25 09:57							
	Sol.	Sol.	Sol.		Sol.		Sol.		Sol.	
	A	AB	A	%R	AB	%R	A	%R	AB	%R
Aluminum	500		501.	100						
Antimony			-0.0146							
Arsenic			-0.00401							
Barium			0.00201							
Beryllium			0.0000604							
Cadmium			-0.000303							
Calcium	500		459.	92						
Chromium			0.000406							
Cobalt			0.000111							
Copper			0.00352							
Iron	200		180.	90						
Lead			0.00290							
Magnesium	500		453.	91						
Manganese			0.000400							
Nickel			0.000460							
Potassium			0.00193							
Selenium			0.00336							
Silver			0.00101							
Sodium			0.0147							
Thallium			0.00262							
Vanadium			-0.00559							
Zinc			-0.00727							

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%



Form 4a

Interference Check Sample

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : TRACE6

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Concentration Units : mg/l

Analyte	True		Initial Found		Final Found					
	Lab ID :		R1982044-5							
	Analysis Date :		06/27/25 07:22							
	Sol.	Sol.	Sol.		Sol.		Sol.		Sol.	
	A	AB	A	%R	AB	%R	A	%R	AB	%R
Aluminum	500		520.	104						
Antimony			-0.0312							
Arsenic			0.00304							
Barium			0.00204							
Beryllium			-0.0000184							
Cadmium			-0.000311							
Calcium	500		489.	98						
Chromium			-0.00234							
Cobalt			0.000436							
Copper			-0.00639							
Iron	200		184.	92						
Lead			-0.0108							
Magnesium	500		396.	79						
Manganese			0.00193							
Nickel			-0.00947							
Potassium			0.00478							
Selenium			-0.0000969							
Silver			0.000444							
Sodium			0.0186							
Thallium			-0.0197							
Vanadium			-0.00235							
Zinc			-0.00110							

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%



Form 4a

Interference Check Sample

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : TRACE8

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Concentration Units : mg/l

Analyte	True		Initial Found				Final Found			
	Lab ID :		R1982073-5							
	Analysis Date :		06/27/25 08:46							
	Sol.	Sol.	Sol.		Sol.		Sol.		Sol.	
	A	AB	A	%R	AB	%R	A	%R	AB	%R
Aluminum	500		514.	103						
Sodium			0.0196							

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%



Form 5a Matrix Spike

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : NA
 Lab Sample ID : L2535446-01
 Matrix Spike : WG2081457-3
 Matrix Spike Dup :

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Matrix : WATER

MS Analysis Date : 06/26/25 17:29
 MSD Analysis Date :

Parameter	Sample Conc. (mg/l)	Matrix Spike Sample		%R	Matrix Spike Duplicate		%R	RPD	Recovery Limits	RPD Limit
		Spike Added (mg/l)	Spike Conc. (mg/l)		Spike Added (mg/l)	Spike Conc. (mg/l)				
Aluminum, Dissolved	60.1	2	64.4	215 Q					75-125	20
Antimony, Dissolved	ND	0.5	0.632	126 Q					75-125	20
Arsenic, Dissolved	0.036	0.12	0.171	113					75-125	20
Barium, Dissolved	0.172	2	2.24	103					75-125	20
Beryllium, Dissolved	ND	0.05	0.0508	102					75-125	20
Cadmium, Dissolved	ND	0.053	0.0448	84					75-125	20
Calcium, Dissolved	229	10	244.	150 Q					75-125	20
Chromium, Dissolved	0.733	0.2	0.936	102					75-125	20
Cobalt, Dissolved	0.031	0.5	0.466	87					75-125	20
Copper, Dissolved	0.0190	0.25	0.298	112					75-125	20
Iron, Dissolved	377	1	389.	1200Q					75-125	20
Lead, Dissolved	ND	0.53	0.507	96					75-125	20
Magnesium, Dissolved	44.3	10	52.7	84					75-125	20
Manganese, Dissolved	6.16	0.5	6.81	130 Q					75-125	20
Nickel, Dissolved	0.560	0.5	1.11	110					75-125	20
Potassium, Dissolved	125	10	140.	150 Q					75-125	20
Selenium, Dissolved	0.020	0.12	0.174	128 Q					75-125	20
Silver, Dissolved	ND	0.05	0.0561	112					75-125	20
Sodium, Dissolved	54.2	10	64.9	107					75-125	20
Thallium, Dissolved	ND	0.12	0.0450	38 Q					75-125	20
Vanadium, Dissolved	0.074	0.5	0.574	100					75-125	20
Zinc, Dissolved	3.08	0.5	3.58	100					75-125	20



Form 5a Matrix Spike

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : MW-12D
 Lab Sample ID : L2538382-06
 Matrix Spike : WG2081457-7
 Matrix Spike Dup : WG2081457-8

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Matrix : WATER
 MS Analysis Date : 06/27/25 20:18
 MSD Analysis Date : 06/27/25 19:32

Parameter	Sample Conc. (mg/l)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R			
Aluminum, Dissolved	ND	2	2.02	101	2	2.03	102	0	75-125	20
Antimony, Dissolved	ND	0.5	0.378	76	0.5	0.399	80	5	75-125	20
Arsenic, Dissolved	ND	0.12	0.116	97	0.12	0.116	97	0	75-125	20
Barium, Dissolved	0.0366	2	1.97	97	2	2.00	98	2	75-125	20
Beryllium, Dissolved	ND	0.05	0.0483	97	0.05	0.0488	98	1	75-125	20
Cadmium, Dissolved	ND	0.053	0.0464	88	0.053	0.0471	89	1	75-125	20
Calcium, Dissolved	12.8	10	21.6	88	10	22.2	94	3	75-125	20
Chromium, Dissolved	0.0037J	0.2	0.197	98	0.2	0.198	99	1	75-125	20
Cobalt, Dissolved	ND	0.5	0.462	92	0.5	0.468	94	1	75-125	20
Copper, Dissolved	ND	0.25	0.241	96	0.25	0.244	98	1	75-125	20
Iron, Dissolved	ND	1	0.974	97	1	0.982	98	1	75-125	20
Lead, Dissolved	ND	0.53	0.505	95	0.53	0.513	97	2	75-125	20
Magnesium, Dissolved	5.44	10	14.9	95	10	15.2	98	2	75-125	20
Manganese, Dissolved	ND	0.5	0.472	94	0.5	0.476	95	1	75-125	20
Nickel, Dissolved	0.0039J	0.5	0.480	96	0.5	0.485	97	1	75-125	20
Potassium, Dissolved	1.11J	10	11.4	114	10	11.7	117	3	75-125	20
Selenium, Dissolved	ND	0.12	0.116	97	0.12	0.117	98	1	75-125	20
Silver, Dissolved	ND	0.05	0.0515	103	0.05	0.0515	103	0	75-125	20
Sodium, Dissolved	14.3	10	24.3	100	10	24.9	106	2	75-125	20
Thallium, Dissolved	ND	0.12	0.116	97	0.12	0.118	98	2	75-125	20
Vanadium, Dissolved	ND	0.5	0.482	96	0.5	0.486	97	1	75-125	20
Zinc, Dissolved	0.0118	0.5	0.482	94	0.5	0.491	96	2	75-125	20



Form 5a Matrix Spike

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : MW-12D
 Lab Sample ID : L2538382-06
 Matrix Spike : WG2084038-7
 Matrix Spike Dup : WG2084038-8

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Matrix : WATER
 MS Analysis Date : 06/27/25 09:40
 MSD Analysis Date : 06/27/25 10:29

Parameter	Sample Conc. (mg/l)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R			
Aluminum, Total	0.0405J	2	2.25	112	2	2.41	120	7	75-125	20
Antimony, Total	ND	0.5	0.446	89	0.5	0.477	95	7	75-125	20
Arsenic, Total	ND	0.12	0.121	101	0.12	0.119	99	2	75-125	20
Barium, Total	0.0401	2	2.12	104	2	2.26	111	6	75-125	20
Beryllium, Total	ND	0.05	0.0521	104	0.05	0.0556	111	6	75-125	20
Cadmium, Total	ND	0.053	0.0479	90	0.053	0.0514	97	7	75-125	20
Calcium, Total	14.3	10	24.1	98	10	24.3	100	1	75-125	20
Chromium, Total	0.0038J	0.2	0.204	102	0.2	0.221	110	8	75-125	20
Cobalt, Total	ND	0.5	0.503	101	0.5	0.542	108	7	75-125	20
Copper, Total	ND	0.25	0.260	104	0.25	0.276	110	6	75-125	20
Iron, Total	0.0338J	1	1.08	108	1	1.16	116	7	75-125	20
Lead, Total	ND	0.53	0.509	96	0.53	0.507	96	0	75-125	20
Magnesium, Total	5.84	10	15.8	100	10	15.8	100	0	75-125	20
Manganese, Total	ND	0.5	0.522	104	0.5	0.559	112	7	75-125	20
Nickel, Total	0.0033J	0.5	0.486	97	0.5	0.518	104	6	75-125	20
Potassium, Total	1.15J	10	11.8	118	10	12.0	120	2	75-125	20
Selenium, Total	ND	0.12	0.121	101	0.12	0.122	102	1	75-125	20
Silver, Total	ND	0.05	0.0528	106	0.05	0.0569	114	7	75-125	20
Sodium, Total	15.5	10	26.3	108	10	26.3	108	0	75-125	20
Thallium, Total	ND	0.12	0.115	96	0.12	0.115	96	0	75-125	20
Vanadium, Total	ND	0.5	0.509	102	0.5	0.546	109	7	75-125	20
Zinc, Total	0.0156	0.5	0.511	99	0.5	0.554	108	8	75-125	20



Form 6 Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Client Sample ID	: NA	Matrix	: WATER
Lab Sample ID	: NA	Analysis Date	: 06/26/25 17:22
Dup Sample ID	: WG2081457-4	DUP Analysis Date	: 06/26/25 17:37

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Copper, Dissolved	0.0190	0.0190	0	20
Silver, Dissolved	ND	ND	NC	20



Form 7 Laboratory Control Sample

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : NA
 Lab Sample ID : WG2081457-2
 Dup Sample ID :

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Matrix : WATER
 LCS Analysis Date : 06/26/25 16:56
 LCSD Analysis Date :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R			
Aluminum, Dissolved	2.00	2.14	107.					85-115	20
Antimony, Dissolved	0.500	0.466	93.					85-115	20
Arsenic, Dissolved	0.120	0.115	96.					85-115	20
Barium, Dissolved	2.00	2.02	101.					85-115	20
Beryllium, Dissolved	0.0500	0.0494	99.					85-115	20
Cadmium, Dissolved	0.0530	0.0500	94.					85-115	20
Calcium, Dissolved	10.0	10.4	104.					85-115	20
Chromium, Dissolved	0.200	0.205	102.					85-115	20
Cobalt, Dissolved	0.500	0.498	100.					85-115	20
Copper, Dissolved	0.250	0.251	100.					85-115	20
Iron, Dissolved	1.00	0.994	99.					85-115	20
Lead, Dissolved	0.530	0.511	96.					85-115	20
Magnesium, Dissolved	10.0	10.3	103.					85-115	20
Manganese, Dissolved	0.500	0.498	100.					85-115	20
Nickel, Dissolved	0.500	0.460	92.					85-115	20
Potassium, Dissolved	10.0	11.5	115.					85-115	20
Selenium, Dissolved	0.120	0.124	103.					85-115	20
Silver, Dissolved	0.0500	0.0518	104.					85-115	20
Sodium, Dissolved	10.0	11.2	112.					85-115	20
Thallium, Dissolved	0.120	0.112	93.					85-115	20
Vanadium, Dissolved	0.500	0.498	100.					85-115	20
Zinc, Dissolved	0.500	0.494	99.					85-115	20



Form 7 Laboratory Control Sample

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : NA
 Lab Sample ID : WG2084038-2
 Dup Sample ID :

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Matrix : WATER
 LCS Analysis Date : 06/27/25 09:07
 LCSD Analysis Date :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R			
Antimony, Total	0.500	0.476	95.					85-115	20
Arsenic, Total	0.120	0.129	108.					85-115	20
Barium, Total	2.00	2.24	112.					85-115	20
Beryllium, Total	0.0500	0.0554	111.					85-115	20
Cadmium, Total	0.0530	0.0514	97.					85-115	20
Calcium, Total	10.0	11.0	110.					85-115	20
Chromium, Total	0.200	0.219	110.					85-115	20
Cobalt, Total	0.500	0.544	109.					85-115	20
Copper, Total	0.250	0.276	110.					85-115	20
Iron, Total	1.00	1.13	113.					85-115	20
Lead, Total	0.530	0.555	105.					85-115	20
Magnesium, Total	10.0	11.0	110.					85-115	20
Manganese, Total	0.500	0.560	112.					85-115	20
Nickel, Total	0.500	0.524	105.					85-115	20
Potassium, Total	10.0	11.5	115.					85-115	20
Selenium, Total	0.120	0.128	107.					85-115	20
Silver, Total	0.0500	0.0565	113.					85-115	20
Thallium, Total	0.120	0.126	105.					85-115	20
Vanadium, Total	0.500	0.552	110.					85-115	20
Zinc, Total	0.500	0.544	109.					85-115	20



Form 7 Laboratory Control Sample

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : NA
 Lab Sample ID : WG2084038-2
 Dup Sample ID :

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Matrix : WATER
 LCS Analysis Date : 06/27/25 12:43
 LCSD Analysis Date :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R			
Aluminum, Total	2.00	2.21	110.					85-115	20
Sodium, Total	10.0	11.5	115.					85-115	20



Form 8 Serial Dilutions

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Client Sample ID : MW-12D
Lab Sample ID : L2538382-06
Serial Dilution ID : WG2081457-10

Lab Number : L2538382
Project Number : 2232.0006Y005
Matrix : WATER
Analysis Date : 06/27/25 19:25
Analysis Date : 06/27/25 19:38

Parameter	Initial Sample Result (mg/l)	Serial Dilution Result (mg/l)	% Difference	%D Limit
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Form 8 Serial Dilutions

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Client Sample ID : MW-12D
Lab Sample ID : L2538382-06
Serial Dilution ID : WG2084038-10

Lab Number : L2538382
Project Number : 2232.0006Y005
Matrix : WATER
Analysis Date : 06/27/25 09:33
Analysis Date : 06/27/25 09:59

Parameter	Initial Sample Result (mg/l)	Serial Dilution Result (mg/l)	% Difference	%D Limit
Calcium, Total	14.3	14.3	0	20
Magnesium, Total	5.84	5.94	2	20



U.S. EPA - CLP
10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____
 Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____
 ICP-AES Instrument: TRACE4 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Al	Ca	Fe	Mg	___
Aluminum	396.15	0.0000000	0.0000020	-0.0000310	-0.0000090	
Antimony	206.83	-0.0000020	0.0000040	-0.0000110	-0.0000050	
Arsenic	189.04	0.0000090	-0.0000010	-0.0000700	0.0000000	
Barium	455.40	-0.0000040	-0.0000020	-0.0000110	-0.0000010	
Beryllium	313.40	-0.0000020	-0.0000020	-0.0000050	0.0000000	
Cadmium	214.44	0.0000000	-0.0000030	0.0000000	-0.0000010	
Calcium	315.89	0.0000780	0.0000000	-0.0000170	0.0000710	
Chromium	267.72	0.0000050	-0.0000020	0.0000120	0.0000000	
Cobalt	228.62	-0.0000120	-0.0000060	-0.0000250	-0.0000020	
Copper	324.75	-0.0000030	-0.0000020	-0.0000040	0.0000110	
Iron	259.94	0.0000180	-0.0000120	0.0000000	-0.0000030	
Lead	220.35	0.0001100	-0.0000010	0.0000180	-0.0000010	
Magnesium	279.08	-0.0000540	-0.0000280	0.0000190	0.0000000	
Manganese	257.61	-0.0000030	-0.0000020	-0.0000080	0.0000020	
Mercury						
Nickel	231.60	-0.0000130	-0.0000050	-0.0000240	-0.0000020	
Potassium	766.49	-0.0012590	-0.0007040	-0.0028490	-0.0002350	
Selenium	196.09	-0.0000200	0.0000000	-0.0000290	-0.0000010	
Silver	328.07	-0.0000040	-0.0000020	-0.0000090	-0.0000010	
Sodium	589.59	-0.0006160	-0.0005220	-0.0020960	-0.0001600	
Thallium	190.86	-0.0000060	-0.0000040	-0.0000050	-0.0000010	
Vanadium	292.40	-0.0000050	-0.0000030	0.0000100	-0.0000020	
Zinc	206.20	0.0002750	0.0000030	-0.0007990	-0.0000040	

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____
 Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____
 ICP-AES Instrument ID: TRACE4 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Sb	As	Ba	Be	Cd
Aluminum	396.15	0.0000000	0.0000000	0.0000000	-0.0022950	-0.0018570
Antimony	206.83	0.0000000	0.0000000	0.0000000	-0.0003900	-0.0000120
Arsenic	189.04	0.0000000	0.0000000	0.0000210	-0.0001780	-0.0001730
Barium	455.40	0.0000000	0.0000000	0.0000000	-0.0002050	-0.0002030
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000860
Cadmium	214.44	0.0000000	0.0000000	0.0000000	-0.0002090	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	-0.0020880	-0.0018790
Chromium	267.72	0.0000000	0.0000000	0.0000000	-0.0002010	-0.0003100
Cobalt	228.62	0.0000000	0.0000000	0.0000000	-0.0004810	-0.0004970
Copper	324.75	0.0000000	0.0000000	0.0000000	-0.0002330	-0.0002260
Iron	259.94	0.0000000	0.0000000	0.0000000	-0.0012310	-0.0009570
Lead	220.35	0.0000000	0.0000000	0.0000000	-0.0001700	-0.0001850
Magnesium	279.08	0.0000000	0.0000000	0.0000000	-0.0022440	-0.0017830
Manganese	257.61	0.0000000	0.0000000	0.0000000	-0.0001950	-0.0002020
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	-0.0005490	-0.0005200
Potassium	766.49	0.0000000	0.0000000	0.0000000	-0.0522980	-0.0517110
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000060	0.0000030
Silver	328.07	0.0000000	0.0000000	0.0000000	-0.0001740	-0.0001560
Sodium	589.59	0.0000000	0.0000000	0.0000000	-0.0417330	-0.0407400
Thallium	190.86	0.0000000	0.0000000	0.0000000	-0.0002650	-0.0002240
Vanadium	292.40	0.0000000	0.0000000	0.0000000	-0.0002090	-0.0002040
Zinc	206.20	0.0000000	0.0000000	0.0000000	-0.0000320	-0.0009250

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____
 Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____
 ICP-AES Instrument ID: TRACE4 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Cr	Co	Cu	Pb	Mn
Aluminum	396.15	-0.0020320	-0.0005350	-0.0005960	0.0000000	-0.0003930
Antimony	206.83	0.0049920	-0.0001600	-0.0001410	0.0000000	-0.0001780
Arsenic	189.04	0.0002670	-0.0001290	-0.0000570	0.0000000	-0.0000030
Barium	455.40	-0.0002000	-0.0000500	-0.0000660	0.0000000	-0.0000350
Beryllium	313.40	-0.0000900	-0.0000220	-0.0000300	0.0000000	-0.0000110
Cadmium	214.44	-0.0000290	-0.0000520	-0.0000680	0.0000000	-0.0000270
Calcium	315.89	-0.0020720	0.0009940	-0.0005720	0.0000000	-0.0000920
Chromium	267.72	0.0000000	-0.0000480	-0.0000690	0.0000000	0.0001140
Cobalt	228.62	-0.0005870	0.0000000	-0.0001660	0.0000000	-0.0000740
Copper	324.75	-0.0002130	-0.0000490	0.0000000	0.0000000	0.0000300
Iron	259.94	-0.0010370	-0.0002940	-0.0003760	0.0000000	-0.0001890
Lead	220.35	-0.0001960	-0.0003260	0.0002710	0.0000000	0.0000640
Magnesium	279.08	-0.0024620	-0.0005640	-0.0008730	0.0000000	-0.0069760
Manganese	257.61	-0.0002060	-0.0000480	-0.0000750	0.0000000	0.0000000
Mercury						
Nickel	231.60	-0.0005230	-0.0002210	-0.0001810	0.0000000	-0.0000730
Potassium	766.49	-0.0512430	-0.0126240	-0.0178480	0.0000000	-0.0089880
Selenium	196.09	-0.0000520	0.0000530	-0.0000240	0.0000000	0.0003780
Silver	328.07	-0.0001430	-0.0000370	-0.0000450	0.0000000	0.0001940
Sodium	589.59	-0.0407180	-0.0097580	-0.0137660	0.0000000	-0.0070470
Thallium	190.86	-0.0000390	0.0020440	-0.0000840	-0.0000200	0.0003990
Vanadium	292.40	-0.0002210	-0.0000500	-0.0000650	0.0000000	0.0001060
Zinc	206.20	-0.0012900	0.0000070	0.0003430	0.0001200	-0.0001520

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____
 Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____
 ICP-AES Instrument ID: TRACE4 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Ni	K	Se	Ag	Na
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____
 Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____
 ICP-AES Instrument: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Al	Ca	Fe	Mg	Mo
Aluminum	396.15	0.0000000	0.0000960	0.0000000	0.0000000	0.0573510
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0016160
Arsenic	189.04	-0.0000310	0.0000000	0.0000000	0.0000000	0.0009550
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000010	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0009910
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000120
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0004030
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0003010	0.0000000	0.0000210	0.0000000	-0.0026290
Magnesium	279.08	0.0000000	0.0000000	0.0001760	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000340	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000180
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000310	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____
 Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____
 ICP-AES Instrument ID: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Sb	As	Ba	Be	Cd
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____
 Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____
 ICP-AES Instrument ID: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Cr	Co	Cu	Pb	Mn
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0114090	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0003850	-0.0000480	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0007800	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	-0.0092850
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	-0.0001620	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000620	0.0000000	0.0000000	0.0006770
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	-0.0019910	0.0000000	0.0000000	0.0000000	-0.0004360
Zinc	206.20					

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____
 Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____
 ICP-AES Instrument ID: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Ni	K	Se	Ag	Na
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000930	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0002270	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	-0.0003390	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument ID: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Tl	V	Zn		
Aluminum	396.15	0.0000000	0.0000000	0.0000000		
Antimony	206.83	0.0000000	0.0000000	0.0000000		
Arsenic	189.04	0.0000000	0.0000000	0.0000000		
Barium	455.40	0.0000000	0.0000000	0.0000000		
Beryllium	313.40	0.0000000	0.0018940	0.0000000		
Cadmium	214.44	0.0000000	0.0000000	0.0000000		
Calcium	315.89	0.0000000	0.0000000	0.0000000		
Chromium	267.72	0.0000000	0.0000000	0.0000000		
Cobalt	228.62	0.0017990	0.0000000	0.0000000		
Copper	324.75	0.0000000	-0.0003720	0.0000000		
Iron	259.94	0.0000000	0.0000000	0.0000000		
Lead	220.35	0.0000000	-0.0001170	0.0000000		
Magnesium	279.08	0.0000000	0.0000000	0.0000000		
Manganese	257.61	0.0000000	0.0000000	0.0000000		
Mercury						
Nickel	231.60	0.0005790	0.0000000	0.0000000		
Potassium	766.49	0.0000000	0.0000000	0.0000000		
Selenium	196.09	0.0000000	0.0000000	0.0000000		
Silver	328.07	0.0000000	-0.0017200	0.0000000		
Sodium	589.59	0.0000000	0.0000000	0.0000000		
Thallium	190.86	0.0000000	0.0002820	0.0000000		
Vanadium	292.40	0.0000000	0.0000000	0.0000000		
Zinc	206.20	0.0000000	0.0000000	0.0000000		

Comments:

U.S. EPA - CLP
10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____
 Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____
 ICP-AES Instrument: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Al	Ca	Fe	Mg	Mo
Aluminum	396.15	0.0000000	0.0000960	0.0000000	0.0000000	0.0573510
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0016160
Arsenic	189.04	-0.0000310	0.0000000	0.0000000	0.0000000	0.0009550
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000010	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0009910
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000120
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0004030
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0003010	0.0000000	0.0000210	0.0000000	-0.0026290
Magnesium	279.08	0.0000000	0.0000000	0.0001760	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000340	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000180
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000310	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument ID: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Sb	As	Ba	Be	Cd
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____
 Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____
 ICP-AES Instrument ID: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Cr	Co	Cu	Pb	Mn
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0114090	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0003850	-0.0000480	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0007800	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	-0.0092850
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	-0.0001620	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000620	0.0000000	0.0000000	0.0006770
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	-0.0019910	0.0000000	0.0000000	0.0000000	-0.0004360
Zinc	206.20					

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____
 Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____
 ICP-AES Instrument ID: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Ni	K	Se	Ag	Na
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000930	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0002270	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	-0.0003390	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____
 Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____
 ICP-AES Instrument ID: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Tl	V	Zn		
Aluminum	396.15	0.0000000	0.0000000	0.0000000		
Antimony	206.83	0.0000000	0.0000000	0.0000000		
Arsenic	189.04	0.0000000	0.0000000	0.0000000		
Barium	455.40	0.0000000	0.0000000	0.0000000		
Beryllium	313.40	0.0000000	0.0018940	0.0000000		
Cadmium	214.44	0.0000000	0.0000000	0.0000000		
Calcium	315.89	0.0000000	0.0000000	0.0000000		
Chromium	267.72	0.0000000	0.0000000	0.0000000		
Cobalt	228.62	0.0017990	0.0000000	0.0000000		
Copper	324.75	0.0000000	-0.0003720	0.0000000		
Iron	259.94	0.0000000	0.0000000	0.0000000		
Lead	220.35	0.0000000	-0.0001170	0.0000000		
Magnesium	279.08	0.0000000	0.0000000	0.0000000		
Manganese	257.61	0.0000000	0.0000000	0.0000000		
Mercury						
Nickel	231.60	0.0005790	0.0000000	0.0000000		
Potassium	766.49	0.0000000	0.0000000	0.0000000		
Selenium	196.09	0.0000000	0.0000000	0.0000000		
Silver	328.07	0.0000000	-0.0017200	0.0000000		
Sodium	589.59	0.0000000	0.0000000	0.0000000		
Thallium	190.86	0.0000000	0.0002820	0.0000000		
Vanadium	292.40	0.0000000	0.0000000	0.0000000		
Zinc	206.20	0.0000000	0.0000000	0.0000000		

Comments:

U.S. EPA - CLP
10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____
 Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____
 ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Al	Ca	Fe	Mg	Mo
Aluminum	396.15	0.0000000	0.0000960	0.0000000	0.0000000	0.0573510
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0016160
Arsenic	189.04	0.0001500	0.0000000	-0.0004550	0.0000000	0.0038670
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000380	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0009910
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000120
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0004030
Iron	259.94	0.0000000	0.0000000	0.0000340	0.0000000	0.0000000
Lead	220.35	0.0001750	0.0000000	0.0002100	0.0000000	-0.0026290
Magnesium	279.08	0.0000000	0.0000000	0.0001760	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	-0.0000350	0.0000000	0.0000000	0.0000000	0.0000180
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000100	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____
 Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____
 ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Sb	As	Ba	Be	Cd
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____
 Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____
 ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Cr	Co	Cu	Pb	Mn
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0114090	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0017890	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0007800	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	-0.0092850
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	-0.0001620	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000620	0.0000000	0.0000000	0.0006770
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	-0.0019910	0.0000000	0.0000000	0.0000000	-0.0004360
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____
 Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____
 ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Ni	K	Se	Ag	Na
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000930	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0002270	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	-0.0003390	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____
 Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____
 ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Tl	V	Zn		
Aluminum	396.15	0.0000000	0.0000000	0.0000000		
Antimony	206.83	0.0000000	0.0000000	0.0000000		
Arsenic	189.04	0.0000000	0.0000000	0.0000000		
Barium	455.40	0.0000000	0.0000000	0.0000000		
Beryllium	313.40	0.0000000	0.0018940	0.0000000		
Cadmium	214.44	0.0000000	0.0000000	0.0000000		
Calcium	315.89	0.0000000	0.0000000	0.0000000		
Chromium	267.72	0.0000000	0.0000000	0.0000000		
Cobalt	228.62	0.0017990	0.0000000	0.0000000		
Copper	324.75	0.0000000	0.0000000	0.0000000		
Iron	259.94	0.0000000	0.0000000	0.0000000		
Lead	220.35	0.0000000	-0.0001170	0.0000000		
Magnesium	279.08	0.0000000	0.0000000	0.0000000		
Manganese	257.61	0.0000000	0.0000000	0.0000000		
Mercury						
Nickel	231.60	0.0005790	0.0000000	0.0000000		
Potassium	766.49	0.0000000	0.0000000	0.0000000		
Selenium	196.09	0.0000000	0.0000000	0.0000000		
Silver	328.07	0.0000000	0.0000000	0.0000000		
Sodium	589.59	0.0000000	0.0000000	0.0000000		
Thallium	190.86	0.0000000	0.0000000	0.0000000		
Vanadium	292.40	0.0011610	0.0000000	0.0000000		
Zinc	206.20	0.0000000	0.0000000	0.0000000		

Comments:

EPA 200.7, EPA 6010D		Linear Dynamic Range					
		All values are in mg/L and are 90% of the established LDR concentration.					
Instrument ID:		Trace 4	Trace 5	Trace 6	Trace 7	Trace 8	Trace 9
2023 Complete		☐	☐	☐	☐	☐	☐
Ag	Silver	36	27	9	13	90	45
Al	Aluminum	900	540	450	900	900	900
As	Arsenic	90	54	90	72	180	90
B	Boron	90	90	9	45	90	54
Ba	Barium	90	27	18	13	135	27
Be	Beryllium	27	36	9	9	11	31
Ca	Calcium	450	900	675	900	900	900
Cd	Cadmium	11	9	9	11	27	18
Co	Cobalt	90	63	45	22	135	90
Cr	Chromium	45	63	9	45	157	90
Cu	Copper	90	54	45	45	90	67
Fe	Iron	630	900	450	450	540	540
K	Potassium	900	900	675	720	900	900
Mg	Magnesium	450	900	360	900	900	900
Mn	Manganese	90	31	90	67	90	90
Mo	Molybdenum	45	36	9	22	67	45
Na	Sodium	675	900	450	405	630	900
Ni	Nickel	90	45	45	22	135	90
Pb	Lead	180	180	90	90	225	90
S	Sulfur	-	90	-	-	-	-
Sb	Antimony	22	45	45	4.5	90	45
Se	Selenium	27	27	45	22	15	45
Si	Silica	45	90	22	22	90	45
Sn	Tin	45	45	13	22	72	45
Sr	Strontium	45	45	9	9	67	45
Ti	Titanium	45	90	9	90	72	45
Tl	Thallium	45	90	45	22	135	45
V	Vanadium	90	90	90	90	112	45
Zn	Zinc	45	27	45	22	63	22

Form 12

Preparation Log

Client : Roux Env. Eng. & Geology, DPC Lab Number : L2538382
Project Name : CORAM MATERIALS Project Number : 2232.0006Y005
Matrix : WATER Prep Method : EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
WG2081457-1	06/20/25 11:06	-	50
WG2081457-2	06/20/25 11:06	-	50
WG2081457-3	06/20/25 11:06	-	50
WG2081457-4	06/20/25 11:06	-	50

Form 12 Preparation Log

Client : Roux Env. Eng. & Geology, DPC Lab Number : L2538382
Project Name : CORAM MATERIALS Project Number : 2232.0006Y005
Matrix : WATER Prep Method : EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2538382-01	06/20/25 11:06	-	50
L2538382-02	06/20/25 11:06	-	50
L2538382-03	06/20/25 11:06	-	50
L2538382-04	06/20/25 11:06	-	50
L2538382-05	06/20/25 11:06	-	50
L2538382-06	06/20/25 11:06	-	50
L2538382-07	06/20/25 11:06	-	50
WG2081457-7	06/20/25 11:06	-	50
WG2081457-8	06/20/25 11:06	-	50
WG2081457-9	06/20/25 11:06	-	50
WG2081457-10	06/20/25 11:06	-	50



Form 12

Preparation Log

Client : Roux Env. Eng. & Geology, DPC Lab Number : L2538382
Project Name : CORAM MATERIALS Project Number : 2232.0006Y005
Matrix : WATER Prep Method : EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2538382-01	06/26/25 19:04	-	50
L2538382-02	06/26/25 19:04	-	50
L2538382-03	06/26/25 19:04	-	50
L2538382-04	06/26/25 19:04	-	50
L2538382-05	06/26/25 19:04	-	50
L2538382-06	06/26/25 19:04	-	50
L2538382-07	06/26/25 19:04	-	50
WG2084038-1	06/26/25 19:04	-	50
WG2084038-2	06/26/25 19:04	-	50
WG2084038-7	06/26/25 19:04	-	50
WG2084038-8	06/26/25 19:04	-	50
WG2084038-10	06/26/25 19:04	-	50



Form 12

Preparation Log

Client : Roux Env. Eng. & Geology, DPC Lab Number : L2538382
Project Name : CORAM MATERIALS Project Number : 2232.0006Y005
Matrix : WATER Prep Method : EPA 3005A

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
WG2084038-2	06/26/25 19:04	-	50

Form 13

Analysis Run Log

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : TRACE6
 Start Date : 06/26/25 06:32

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Analysis Method : 19,200.7
 End Date : 06/26/25 18:04

Sample Number	Dilution Factor	Analysis Time	Aluminum, Dissolved	Antimony, Dissolved	Arsenic, Dissolved	Barium, Dissolved	Beryllium, Dissolved	Cadmium, Dissolved	Calcium, Dissolved	Chromium, Dissolved	Cobalt, Dissolved	Copper, Dissolved	Iron, Dissolved	Lead, Dissolved	Magnesium, Dissolved	Manganese, Dissolved	Nickel, Dissolved	Potassium, Dissolved	Selenium, Dissolved	Silver, Dissolved	Sodium, Dissolved	Thallium, Dissolved	Vanadium, Dissolved	Zinc, Dissolved				
R1981541-1 ICV	1	06:32:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1981541-2 ICB	1	06:38:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1981541-3 ICV	1	06:54:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1981541-4 ICB	1	07:00:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1981541-5 ICSA	1	07:17:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1981541-6 CCV	1	08:15:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1981541-7 CCB	1	08:22:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1981541-8 CCV	1	09:40:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1981541-9 CCB	1	09:46:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1981541-10 CCV	1	10:50:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1981541-11 CCB	1	10:56:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1981541-12 CCV	1	13:00:44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1981541-13 CCB	1	13:07:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1981541-14 CCV	1	13:53:36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1981541-15 CCB	1	13:59:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1981541-16 CCV	1	16:14:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1981541-17 CCB	1	16:20:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
WG2081457-1 BLANK	1	16:49:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
WG2081457-2 LCS	1	16:56:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
WG2081457-3 MS	1	17:29:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
WG2081457-4 DUP	1	17:37:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1981541-18 CCV	1	17:57:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1981541-19 CCB	1	18:04:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				

Form 13

Analysis Run Log

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : TRACE9
 Start Date : 06/27/25 09:41

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Analysis Method : 19,200.7
 End Date : 06/27/25 20:30

Sample Number	Dilution Factor	Analysis Time	Aluminum, Dissolved	Antimony, Dissolved	Arsenic, Dissolved	Barium, Dissolved	Beryllium, Dissolved	Cadmium, Dissolved	Calcium, Dissolved	Chromium, Dissolved	Cobalt, Dissolved	Copper, Dissolved	Iron, Dissolved	Lead, Dissolved	Magnesium, Dissolved	Manganese, Dissolved	Nickel, Dissolved	Potassium, Dissolved	Selenium, Dissolved	Silver, Dissolved	Sodium, Dissolved	Thallium, Dissolved	Vanadium, Dissolved	Zinc, Dissolved				
R1982031-1 ICV	1	09:41:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1982031-2 ICB	1	09:44:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1982031-3 ICV	1	09:47:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1982031-4 ICB	1	09:51:03	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1982031-5 ICSA	1	09:57:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1982031-6 CCV	1	10:20:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1982031-7 CCB	1	10:24:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1982031-8 CCV	1	10:40:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1982031-9 CCB	1	10:43:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1982031-10 CCV	1	11:27:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1982031-11 CCB	1	11:30:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1982031-12 CCV	1	12:31:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1982031-13 CCB	1	12:35:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1982031-14 CCV	1	13:14:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1982031-15 CCB	1	13:18:10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1982031-16 CCV	1	13:54:38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1982031-17 CCB	1	13:57:54	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1982031-18 CCV	1	15:00:08	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1982031-19 CCB	1	15:03:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1982031-20 CCV	1	15:43:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1982031-21 CCB	1	15:46:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1982031-22 CCV	1	16:47:01	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1982031-23 CCB	1	16:50:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1982031-24 CCV	1	17:44:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1982031-25 CCB	1	17:48:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1982031-26 CCV	1	19:09:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1982031-27 CCB	1	19:12:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				

Form 13

Analysis Run Log

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Instrument ID : TRACE9
Start Date : 06/27/25 09:41

Lab Number : L2538382
Project Number : 2232.0006Y005
Analysis Method : 19,200.7
End Date : 06/27/25 20:30

[illegible]

Form 13 Analysis Run Log

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Instrument ID : TRACE6
Start Date : 06/27/25 06:44

Lab Number : L2538382
Project Number : 2232.0006Y005
Analysis Method : 19,200.7
End Date : 06/27/25 11:38

Sample Number	Dilution Factor	Analysis Time	Aluminum, Total	Antimony, Total	Arsenic, Total	Barium, Total	Beryllium, Total	Cadmium, Total	Calcium, Total	Chromium, Total	Cobalt, Total	Copper, Total	Iron, Total	Lead, Total	Magnesium, Total	Manganese, Total	Nickel, Total	Potassium, Total	Selenium, Total	Silver, Total	Sodium, Total	Thallium, Total	Vanadium, Total	Zinc, Total				
R1982044-1 ICV	1	06:44:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1982044-2 ICB	1	06:50:44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1982044-3 ICV	1	07:02:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1982044-4 ICB	1	07:09:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1982044-5 ICSA	1	07:22:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1982044-6 CCV	1	08:43:38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1982044-7 CCB	1	08:49:55	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
WG2084038-1 BLANK	1	09:00:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
WG2084038-2 LCS	1	09:07:17		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X				
L2538382-01	1	09:13:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
L2538382-02	1	09:20:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
L2538382-06	1	09:33:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
WG2084038-7 MS	1	09:40:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
WG2084038-10 SERDIL	5	09:59:20						X						X														
R1982044-8 CCV	1	10:05:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1982044-9 CCB	1	10:12:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
WG2084038-8 MSD	1	10:29:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
L2538382-04	1	10:35:58	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
L2538382-03	1	10:42:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
L2538382-05	1	10:49:03	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
L2538382-07	1	11:20:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1982044-10 CCV	1	11:31:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
R1982044-11 CCB	1	11:38:10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				

Form 13

Analysis Run Log

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Instrument ID :
Start Date : 06/27/25 08:21

Lab Number : L2538382
Project Number : 2232.0006Y005
Analysis Method :
End Date : 06/27/25 13:13

[illegible]

Date Created: 11/04/16
Created By: Jason Hebert
File: PM2960-2
Page: 1

METALS by 200.7, 6010C (WATER)

[illegible]

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)

Date Created: 11/04/16
Created By: Jason Hebert
File: PM2962-1
Page: 1

METALS by 6010C (SOIL)

[illegible]

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of the laboratory.

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: Blank DMC Trace6
 Analysis started at: 6/26/2025 6:02:27 AM
 Comments: <Comment>
 Rack: 0
 Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-1.9 %	-9.1 %	-0.1 %	0.1 %	0.0 %	0.1 %	0.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.4 %	0.6 %	-0.9 %	0.0 %	0.6 %	0.1 %	-0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	3.7 %	0.7 %	0.2 %	-0.1 %	-0.1 %	0.0 %	-3.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.0 %	0.1 %	12.5 %	-0.3 %	-0.1 %	0.0 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	0.0000 ppm
Concentration per Run	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	0.0000 ppm
Concentration RSD	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	-4.9 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: ICAL
Analysis started at: 6/26/2025 6:09:09 AM
Comments: <Comment>
Rack: 0
Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	10.0000 ppm
Concentration per Run 1	1.0002 ppm	24.7501 ppm	0.9966 ppm	0.9987 ppm	0.9853 ppm	0.9878 ppm	9.9124 ppm
Concentration per Run 2	0.9959 ppm	25.1057 ppm	1.0033 ppm	1.0023 ppm	1.0078 ppm	1.0006 ppm	9.9476 ppm
Concentration per Run 3	1.0040 ppm	25.1442 ppm	1.0001 ppm	0.9990 ppm	1.0069 ppm	1.0116 ppm	10.1400 ppm
Concentration RSD	0.4 %	0.9 %	0.3 %	0.2 %	1.3 %	1.2 %	1.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	35.0000 ppm	10.0000 ppm
Concentration per Run 1	0.9996 ppm	0.9997 ppm	1.0050 ppm	0.9946 ppm	24.7205 ppm	34.8391 ppm	10.0167 ppm
Concentration per Run 2	0.9963 ppm	0.9991 ppm	0.9985 ppm	0.9983 ppm	24.9726 ppm	35.1856 ppm	9.9737 ppm
Concentration per Run 3	1.0042 ppm	1.0013 ppm	0.9965 ppm	1.0071 ppm	25.3069 ppm	34.9753 ppm	10.0096 ppm
Concentration RSD	0.4 %	0.1 %	0.4 %	0.6 %	1.2 %	0.5 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.0000 ppm	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	0.9903 ppm	0.9968 ppm	24.8607 ppm	0.9964 ppm	0.9977 ppm	0.9974 ppm	0.9971 ppm
Concentration per Run 2	0.9982 ppm	1.0012 ppm	25.1564 ppm	1.0001 ppm	1.0001 ppm	1.0027 ppm	1.0014 ppm
Concentration per Run 3	1.0115 ppm	1.0020 ppm	24.9829 ppm	1.0035 ppm	1.0021 ppm	0.9998 ppm	1.0015 ppm
Concentration RSD	1.1 %	0.3 %	0.6 %	0.4 %	0.2 %	0.3 %	0.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	10.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	9.9833 ppm	0.9965 ppm	0.9854 ppm	1.0018 ppm	0.9958 ppm	1.0031 ppm	0.9984 ppm
Concentration per Run 2	10.0194 ppm	1.0005 ppm	1.0071 ppm	0.9996 ppm	1.0036 ppm	0.9987 ppm	0.9970 ppm
Concentration per Run 3	9.9973 ppm	1.0030 ppm	1.0076 ppm	0.9986 ppm	1.0006 ppm	0.9982 ppm	1.0045 ppm
Concentration RSD	0.2 %	0.3 %	1.3 %	0.2 %	0.4 %	0.3 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	97.2482 %	94.9433 %	95.8890 %	101.6361 %	84.4427 %	95.8967 %	1.0000 ppm
Concentration per Run 1	97.9641 %	94.9912 %	96.2941 %	102.8021 %	84.7495 %	96.1431 %	0.9934 ppm
Concentration per Run 2	97.1021 %	94.8904 %	95.4823 %	101.6991 %	84.2524 %	95.7085 %	1.0099 ppm
Concentration per Run 3	96.6785 %	94.9483 %	95.8905 %	100.4070 %	84.3261 %	95.8384 %	0.9968 ppm
Concentration RSD	0.7 %	0.1 %	0.4 %	1.2 %	0.3 %	0.2 %	0.9 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: ICV
Analysis started at: 6/26/2025 6:32:07 AM
Comments: <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5162 ppm	0.5081 ppm	0.4902 ppm	0.5134 ppm	0.5073 ppm	0.5165 ppm	0.5229 ppm
Concentration per Run 1	0.5154 ppm	0.5031 ppm	0.4912 ppm	0.5143 ppm	0.4995 ppm	0.5090 ppm	0.5164 ppm
Concentration per Run 2	0.5145 ppm	0.5074 ppm	0.4887 ppm	0.5091 ppm	0.5092 ppm	0.5178 ppm	0.5217 ppm
Concentration per Run 3	0.5187 ppm	0.5138 ppm	0.4906 ppm	0.5169 ppm	0.5131 ppm	0.5228 ppm	0.5306 ppm
Recovery Percentage 1	103.243 %	101.617 %	98.031 %	102.686 %	101.451 %	103.308 %	104.587 %
Concentration RSD	0.4 %	1.1 %	0.3 %	0.8 %	1.4 %	1.4 %	1.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.5101 ppm	0.5238 ppm	0.5149 ppm	0.5076 ppm	0.5250 ppm	5.2297 ppm	0.5304 ppm
Concentration per Run 1	0.5066 ppm	0.5229 ppm	0.5145 ppm	0.5069 ppm	0.5181 ppm	5.1395 ppm	0.5279 ppm
Concentration per Run 2	0.5088 ppm	0.5210 ppm	0.5186 ppm	0.4998 ppm	0.5248 ppm	5.2901 ppm	0.5278 ppm
Concentration per Run 3	0.5148 ppm	0.5276 ppm	0.5116 ppm	0.5160 ppm	0.5322 ppm	5.2596 ppm	0.5354 ppm
Recovery Percentage 1	102.011 %	104.759 %	102.977 %	101.517 %	105.006 %	104.595 %	106.073 %
Concentration RSD	0.8 %	0.7 %	0.7 %	1.6 %	1.3 %	1.5 %	0.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5243 ppm	0.5062 ppm	9.9967 ppm	0.4899 ppm	0.4989 ppm	0.4858 ppm	0.5063 ppm
Concentration per Run 1	0.5173 ppm	0.5052 ppm	9.8289 ppm	0.4883 ppm	0.4986 ppm	0.4873 ppm	0.5108 ppm
Concentration per Run 2	0.5247 ppm	0.5039 ppm	10.1137 ppm	0.4908 ppm	0.5004 ppm	0.4843 ppm	0.5024 ppm
Concentration per Run 3	0.5311 ppm	0.5096 ppm	10.0476 ppm	0.4907 ppm	0.4976 ppm	0.4858 ppm	0.5056 ppm
Recovery Percentage 1	104.867 %	101.246 %	99.967 %	97.988 %	99.770 %	97.163 %	101.255 %
Concentration RSD	1.3 %	0.6 %	1.5 %	0.3 %	0.3 %	0.3 %	0.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.2825 ppm	0.4822 ppm	0.5096 ppm	0.5089 ppm	0.5092 ppm	0.5173 ppm	0.5162 ppm
Concentration per Run 1	5.2845 ppm	0.4807 ppm	0.5017 ppm	0.5085 ppm	0.5090 ppm	0.5172 ppm	0.5146 ppm
Concentration per Run 2	5.2846 ppm	0.4835 ppm	0.5116 ppm	0.5107 ppm	0.5098 ppm	0.5192 ppm	0.5168 ppm
Concentration per Run 3	5.2785 ppm	0.4824 ppm	0.5155 ppm	0.5073 ppm	0.5089 ppm	0.5155 ppm	0.5172 ppm
Recovery Percentage 1	100.619 %	96.438 %	101.917 %	101.770 %	101.849 %	103.463 %	103.246 %
Concentration RSD	0.1 %	0.3 %	1.4 %	0.3 %	0.1 %	0.4 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	98.9683 %	97.8276 %	98.6120 %	101.1057 %	93.2622 %	98.3922 %	0.5232 ppm
Concentration per Run 1	100.0874 %	97.7748 %	98.0087 %	102.3382 %	93.3230 %	98.1796 %	0.5147 ppm
Concentration per Run 2	99.0039 %	98.4359 %	99.0369 %	101.3446 %	93.1219 %	99.1099 %	0.5298 ppm
Concentration per Run 3	97.8136 %	97.2723 %	98.7903 %	99.6345 %	93.3418 %	97.8871 %	0.5251 ppm
Recovery Percentage 1							104.645 %
Concentration RSD	1.1 %	0.6 %	0.5 %	1.4 %	0.1 %	0.6 %	1.5 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: ICB
Analysis started at: 6/26/2025 6:38:26 AM
Comments: <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0017 ppm	-0.0007 ppm	0.0006 ppm	0.0000 ppm	0.0000 ppm	-0.0004 ppm
Concentration per Run 1	-0.0001 ppm	0.0012 ppm	0.0004 ppm	0.0006 ppm	0.0000 ppm	0.0000 ppm	-0.0027 ppm
Concentration per Run 2	-0.0002 ppm	0.0019 ppm	-0.0015 ppm	0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0027 ppm
Concentration per Run 3	-0.0002 ppm	0.0020 ppm	-0.0010 ppm	0.0006 ppm	0.0000 ppm	0.0000 ppm	-0.0012 ppm
Recovery Percentage 1	-2.438 %	1.695 %	-14.183 %	2.164 %	0.197 %	0.063 %	-0.373 %
Concentration RSD	55.3 %	28.0 %	136.7 %	11.1 %	144.9 %	446.0 %	744.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0000 ppm	0.0039 ppm	0.0000 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0005 ppm	-0.0055 ppm	0.0014 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0067 ppm	-0.0005 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm	-0.0006 ppm	0.0104 ppm	-0.0008 ppm
Recovery Percentage 1	-0.778 %	0.131 %	0.194 %	2.577 %	0.087 %	0.156 %	0.040 %
Concentration RSD	63.2 %	78.3 %	574.8 %	50.9 %	1,277.7 %	213.1 %	2,869.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	0.0008 ppm	-0.0028 ppm	-0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0004 ppm
Concentration per Run 1	0.0001 ppm	0.0008 ppm	-0.0026 ppm	0.0000 ppm	0.0007 ppm	-0.0001 ppm	-0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0008 ppm	-0.0018 ppm	-0.0003 ppm	-0.0001 ppm	0.0007 ppm	0.0005 ppm
Concentration per Run 3	0.0001 ppm	0.0007 ppm	-0.0039 ppm	0.0000 ppm	-0.0004 ppm	0.0004 ppm	0.0009 ppm
Recovery Percentage 1	0.697 %	1.522 %	-0.140 %	-0.399 %	0.584 %	0.669 %	4.347 %
Concentration RSD	63.3 %	6.5 %	37.9 %	134.1 %	912.3 %	112.4 %	124.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	-0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0003 ppm	0.0002 ppm	-0.0002 ppm
Concentration per Run 1	-0.0002 ppm	0.0003 ppm	0.0000 ppm	-0.0001 ppm	-0.0004 ppm	0.0001 ppm	-0.0002 ppm
Concentration per Run 2	-0.0001 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	-0.0003 ppm	0.0001 ppm	-0.0002 ppm
Concentration per Run 3	-0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0002 ppm	-0.0001 ppm	0.0003 ppm	-0.0002 ppm
Recovery Percentage 1	-0.027 %	0.202 %	-0.050 %	0.326 %	-1.459 %	1.899 %	-3.840 %
Concentration RSD	72.5 %	255.4 %	357.9 %	595.6 %	49.8 %	43.2 %	24.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.0188 %	99.9682 %	100.2589 %	100.3556 %	101.8228 %	99.9455 %	-0.0001 ppm
Concentration per Run 1	102.3464 %	99.7944 %	100.1392 %	101.8862 %	101.7063 %	99.8534 %	-0.0001 ppm
Concentration per Run 2	98.7024 %	100.1863 %	99.8968 %	99.4036 %	102.1140 %	100.1695 %	0.0000 ppm
Concentration per Run 3	99.0077 %	99.9240 %	100.7406 %	99.7769 %	101.6481 %	99.8135 %	-0.0002 ppm
Recovery Percentage 1							-0.937 %
Concentration RSD	2.0 %	0.2 %	0.4 %	1.3 %	0.2 %	0.2 %	125.9 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: ICV
Analysis started at: 6/26/2025 6:54:21 AM
Comments: <Comment>
Rack: 0
Vial: 10

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5093 ppm	0.5006 ppm	0.4855 ppm	0.5030 ppm	0.5002 ppm	0.5059 ppm	0.5091 ppm
Concentration per Run 1	0.5092 ppm	0.4926 ppm	0.4849 ppm	0.4981 ppm	0.4929 ppm	0.5004 ppm	0.5048 ppm
Concentration per Run 2	0.5090 ppm	0.5029 ppm	0.4870 ppm	0.5063 ppm	0.5007 ppm	0.5088 ppm	0.5105 ppm
Concentration per Run 3	0.5096 ppm	0.5062 ppm	0.4846 ppm	0.5045 ppm	0.5070 ppm	0.5086 ppm	0.5120 ppm
Recovery Percentage 1	101.857 %	100.113 %	97.100 %	100.601 %	100.046 %	101.189 %	101.817 %
Concentration RSD	0.1 %	1.4 %	0.3 %	0.9 %	1.4 %	1.0 %	0.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4979 ppm	0.5148 ppm	0.5095 ppm	0.5015 ppm	0.5136 ppm	5.2255 ppm	0.5255 ppm
Concentration per Run 1	0.4936 ppm	0.5105 ppm	0.5112 ppm	0.4982 ppm	0.5102 ppm	5.0860 ppm	0.5271 ppm
Concentration per Run 2	0.4953 ppm	0.5150 ppm	0.5081 ppm	0.5038 ppm	0.5164 ppm	5.1879 ppm	0.5262 ppm
Concentration per Run 3	0.5048 ppm	0.5189 ppm	0.5091 ppm	0.5024 ppm	0.5142 ppm	5.4026 ppm	0.5232 ppm
Recovery Percentage 1	99.580 %	102.960 %	101.896 %	100.299 %	102.720 %	104.510 %	105.100 %
Concentration RSD	1.2 %	0.8 %	0.3 %	0.6 %	0.6 %	3.1 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5140 ppm	0.4965 ppm	10.0314 ppm	0.4820 ppm	0.4912 ppm	0.4781 ppm	0.5010 ppm
Concentration per Run 1	0.5083 ppm	0.4921 ppm	9.7534 ppm	0.4823 ppm	0.4926 ppm	0.4789 ppm	0.5015 ppm
Concentration per Run 2	0.5181 ppm	0.4967 ppm	9.9770 ppm	0.4805 ppm	0.4902 ppm	0.4786 ppm	0.5055 ppm
Concentration per Run 3	0.5157 ppm	0.5006 ppm	10.3637 ppm	0.4832 ppm	0.4908 ppm	0.4769 ppm	0.4961 ppm
Recovery Percentage 1	102.810 %	99.294 %	100.314 %	96.404 %	98.241 %	95.622 %	100.204 %
Concentration RSD	1.0 %	0.9 %	3.1 %	0.3 %	0.2 %	0.2 %	0.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.2815 ppm	0.4679 ppm	0.5028 ppm	0.5022 ppm	0.5010 ppm	0.5098 ppm	0.5087 ppm
Concentration per Run 1	5.2832 ppm	0.4675 ppm	0.4955 ppm	0.5023 ppm	0.5004 ppm	0.5092 ppm	0.5092 ppm
Concentration per Run 2	5.2849 ppm	0.4665 ppm	0.5034 ppm	0.5017 ppm	0.5020 ppm	0.5098 ppm	0.5066 ppm
Concentration per Run 3	5.2764 ppm	0.4698 ppm	0.5096 ppm	0.5026 ppm	0.5007 ppm	0.5104 ppm	0.5102 ppm
Recovery Percentage 1	100.600 %	93.584 %	100.566 %	100.433 %	100.208 %	101.963 %	101.733 %
Concentration RSD	0.1 %	0.4 %	1.4 %	0.1 %	0.2 %	0.1 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.7708 %	98.6002 %	98.5915 %	102.0368 %	93.6380 %	99.0012 %	0.5226 ppm
Concentration per Run 1	101.0785 %	99.1274 %	98.3368 %	103.0610 %	93.3248 %	99.6393 %	0.5075 ppm
Concentration per Run 2	99.1167 %	98.0816 %	97.9492 %	101.6884 %	93.5489 %	98.5339 %	0.5186 ppm
Concentration per Run 3	99.1173 %	98.5915 %	99.4886 %	101.3609 %	94.0404 %	98.8305 %	0.5419 ppm
Recovery Percentage 1							104.527 %
Concentration RSD	1.1 %	0.5 %	0.8 %	0.9 %	0.4 %	0.6 %	3.4 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: ICB
Analysis started at: 6/26/2025 7:00:43 AM
Comments: <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0029 ppm	-0.0002 ppm	0.0006 ppm	0.0000 ppm	0.0000 ppm	-0.0020 ppm
Concentration per Run 1	-0.0002 ppm	0.0044 ppm	0.0001 ppm	0.0008 ppm	0.0000 ppm	0.0000 ppm	0.0010 ppm
Concentration per Run 2	-0.0002 ppm	0.0019 ppm	-0.0001 ppm	0.0005 ppm	0.0000 ppm	0.0000 ppm	-0.0018 ppm
Concentration per Run 3	-0.0002 ppm	0.0024 ppm	-0.0006 ppm	0.0005 ppm	0.0001 ppm	0.0000 ppm	-0.0051 ppm
Recovery Percentage 1	-2.442 %	2.923 %	-4.341 %	2.093 %	0.323 %	-0.043 %	-1.990 %
Concentration RSD	10.2 %	45.9 %	172.5 %	23.1 %	82.0 %	464.5 %	153.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0001 ppm	0.0004 ppm	0.0063 ppm	0.0000 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	-0.0002 ppm	0.0001 ppm	-0.0003 ppm	0.0107 ppm	-0.0007 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0005 ppm	0.0002 ppm	0.0003 ppm	-0.0016 ppm	0.0002 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0001 ppm	0.0011 ppm	0.0097 ppm	0.0006 ppm
Recovery Percentage 1	-0.267 %	0.184 %	2.307 %	1.250 %	0.731 %	0.251 %	0.037 %
Concentration RSD	148.9 %	145.3 %	147.4 %	33.3 %	199.8 %	109.1 %	1,772.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0008 ppm	-0.0029 ppm	0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0008 ppm
Concentration per Run 1	-0.0001 ppm	0.0009 ppm	-0.0028 ppm	-0.0001 ppm	-0.0002 ppm	0.0007 ppm	0.0011 ppm
Concentration per Run 2	0.0001 ppm	0.0007 ppm	-0.0040 ppm	0.0003 ppm	0.0000 ppm	0.0002 ppm	0.0000 ppm
Concentration per Run 3	-0.0001 ppm	0.0008 ppm	-0.0020 ppm	0.0002 ppm	0.0006 ppm	0.0001 ppm	0.0014 ppm
Recovery Percentage 1	-0.339 %	1.609 %	-0.147 %	0.496 %	1.363 %	0.696 %	8.293 %
Concentration RSD	358.1 %	10.9 %	33.8 %	196.8 %	319.1 %	88.4 %	88.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	0.0002 ppm	-0.0001 ppm
Concentration per Run 1	0.0003 ppm	0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0002 ppm	0.0000 ppm	-0.0002 ppm
Concentration per Run 2	0.0001 ppm	-0.0003 ppm	0.0000 ppm	0.0001 ppm	-0.0013 ppm	0.0005 ppm	-0.0001 ppm
Concentration per Run 3	-0.0004 ppm	-0.0003 ppm	0.0000 ppm	-0.0002 ppm	0.0004 ppm	0.0002 ppm	-0.0001 ppm
Recovery Percentage 1	-0.003 %	-0.260 %	0.357 %	-0.643 %	-1.284 %	2.061 %	-2.788 %
Concentration RSD	2,258.0 %	182.8 %	99.3 %	171.2 %	365.9 %	116.9 %	58.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.7285 %	100.6173 %	99.6777 %	99.5812 %	101.5893 %	100.2891 %	-0.0002 ppm
Concentration per Run 1	100.2885 %	100.8081 %	99.2180 %	99.3747 %	101.0710 %	100.4102 %	-0.0001 ppm
Concentration per Run 2	99.6261 %	100.1923 %	100.5161 %	99.9084 %	102.4209 %	99.9256 %	-0.0003 ppm
Concentration per Run 3	99.2708 %	100.8515 %	99.2989 %	99.4606 %	101.2760 %	100.5314 %	-0.0001 ppm
Recovery Percentage 1							-1.610 %
Concentration RSD	0.5 %	0.4 %	0.7 %	0.3 %	0.7 %	0.3 %	54.8 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: LLOQ RL Check
 Analysis started at: 6/26/2025 7:10:52 AM
 Comments: <Comment>
 Rack: 0
 Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0053 ppm	0.1021 ppm	0.0050 ppm	0.0308 ppm	0.0101 ppm	0.0051 ppm	0.1080 ppm
Concentration per Run 1	0.0052 ppm	0.1016 ppm	0.0054 ppm	0.0309 ppm	0.0101 ppm	0.0051 ppm	0.1058 ppm
Concentration per Run 2	0.0052 ppm	0.1027 ppm	0.0037 ppm	0.0306 ppm	0.0102 ppm	0.0051 ppm	0.1114 ppm
Concentration per Run 3	0.0053 ppm	0.1020 ppm	0.0057 ppm	0.0310 ppm	0.0102 ppm	0.0052 ppm	0.1069 ppm
Recovery Percentage 1	105.105 %	102.068 %	99.234 %	102.770 %	101.499 %	102.725 %	108.022 %
Concentration RSD	1.1 %	0.5 %	21.4 %	0.7 %	1.0 %	1.2 %	2.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0041 ppm	0.0103 ppm	0.0103 ppm	0.0102 ppm	0.0530 ppm	2.6046 ppm	0.1099 ppm
Concentration per Run 1	0.0041 ppm	0.0104 ppm	0.0103 ppm	0.0102 ppm	0.0530 ppm	2.5473 ppm	0.1102 ppm
Concentration per Run 2	0.0041 ppm	0.0103 ppm	0.0100 ppm	0.0103 ppm	0.0528 ppm	2.6547 ppm	0.1083 ppm
Concentration per Run 3	0.0041 ppm	0.0102 ppm	0.0105 ppm	0.0101 ppm	0.0533 ppm	2.6118 ppm	0.1111 ppm
Recovery Percentage 1	102.443 %	103.200 %	102.923 %	102.022 %	106.062 %	104.184 %	109.860 %
Concentration RSD	0.6 %	1.0 %	2.5 %	0.8 %	0.5 %	2.1 %	1.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0104 ppm	0.0500 ppm	1.9997 ppm	0.0182 ppm	0.0093 ppm	0.0469 ppm	0.0109 ppm
Concentration per Run 1	0.0102 ppm	0.0502 ppm	1.9545 ppm	0.0182 ppm	0.0091 ppm	0.0469 ppm	0.0105 ppm
Concentration per Run 2	0.0106 ppm	0.0499 ppm	2.0375 ppm	0.0179 ppm	0.0097 ppm	0.0460 ppm	0.0112 ppm
Concentration per Run 3	0.0105 ppm	0.0500 ppm	2.0070 ppm	0.0183 ppm	0.0091 ppm	0.0477 ppm	0.0110 ppm
Recovery Percentage 1	103.999 %	100.038 %	99.984 %	90.758 %	92.910 %	93.727 %	109.041 %
Concentration RSD	1.8 %	0.3 %	2.1 %	1.2 %	3.7 %	1.9 %	3.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.4924 ppm	0.0471 ppm	0.0102 ppm	0.0103 ppm	0.0184 ppm	0.0101 ppm	0.0052 ppm
Concentration per Run 1	0.4923 ppm	0.0468 ppm	0.0100 ppm	0.0104 ppm	0.0186 ppm	0.0100 ppm	0.0053 ppm
Concentration per Run 2	0.4929 ppm	0.0476 ppm	0.0103 ppm	0.0102 ppm	0.0180 ppm	0.0101 ppm	0.0051 ppm
Concentration per Run 3	0.4919 ppm	0.0469 ppm	0.0103 ppm	0.0103 ppm	0.0186 ppm	0.0103 ppm	0.0051 ppm
Recovery Percentage 1	98.473 %	94.219 %	101.812 %	102.890 %	91.901 %	101.183 %	103.480 %
Concentration RSD	0.1 %	0.9 %	1.6 %	0.7 %	1.7 %	1.4 %	2.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.0423 %	100.5095 %	99.8831 %	102.0547 %	98.2833 %	101.2026 %	0.0107 ppm
Concentration per Run 1	102.8372 %	100.4804 %	100.0083 %	103.3956 %	98.4949 %	101.1864 %	0.0105 ppm
Concentration per Run 2	100.5270 %	100.7749 %	99.5917 %	101.6723 %	98.0475 %	101.3763 %	0.0107 ppm
Concentration per Run 3	99.7628 %	100.2731 %	100.0494 %	101.0962 %	98.3076 %	101.0451 %	0.0107 ppm
Recovery Percentage 1							106.542 %
Concentration RSD	1.6 %	0.3 %	0.3 %	1.2 %	0.2 %	0.2 %	1.2 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: ICSA
Analysis started at: 6/26/2025 7:17:31 AM
Comments: <Comment>
Rack: 0
Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0005 ppm	513.0637 [SIC 500]	0.0013 ppm	0.0046 ppm	0.0021 ppm	0.0000 ppm	487.8863 ppm
Concentration per Run 1	0.0002 ppm	514.4410 ppm	0.0009 ppm	0.0046 ppm	0.0020 ppm	0.0000 ppm	485.0129 ppm
Concentration per Run 2	0.0006 ppm	513.3886 ppm	0.0001 ppm	0.0047 ppm	0.0021 ppm	0.0000 ppm	488.4831 ppm
Concentration per Run 3	0.0007 ppm	511.3616 ppm	0.0031 ppm	0.0045 ppm	0.0021 ppm	0.0000 ppm	490.1630 ppm
Recovery Percentage 1	7.299 %	513,063.705 %	26.966 %	15.362 %	20.690 %	-0.666 %	487,886.349 %
Concentration RSD	45.6 %	0.3 %	117.0 %	1.7 %	1.3 %	46.6 %	0.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0026 ppm	0.0003 ppm	-0.0020 ppm	-0.0054 ppm	180.8749 ppm	0.0010 ppm	408.1841 ppm
Concentration per Run 1	-0.0024 ppm	0.0004 ppm	-0.0021 ppm	-0.0054 ppm	180.0502 ppm	-0.0010 ppm	407.4238 ppm
Concentration per Run 2	-0.0028 ppm	0.0002 ppm	-0.0019 ppm	-0.0056 ppm	182.0594 ppm	0.0060 ppm	411.8318 ppm
Concentration per Run 3	-0.0025 ppm	0.0003 ppm	-0.0021 ppm	-0.0053 ppm	180.5152 ppm	-0.0022 ppm	405.2968 ppm
Recovery Percentage 1	-64.488 %	1.548 %	-20.418 %	-54.380 %	361,749.855 %	0.038 %	408,184.109 %
Concentration RSD	7.7 %	39.1 %	6.2 %	2.2 %	0.6 %	463.8 %	0.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0020 ppm	-0.0016 ppm	0.0151 ppm	-0.0102 ppm	-0.0129 ppm	-0.0310 ppm	0.0014 ppm
Concentration per Run 1	0.0020 ppm	-0.0018 ppm	0.0163 ppm	-0.0099 ppm	-0.0114 ppm	-0.0333 ppm	0.0073 ppm
Concentration per Run 2	0.0019 ppm	-0.0016 ppm	0.0168 ppm	-0.0105 ppm	-0.0146 ppm	-0.0280 ppm	0.0012 ppm
Concentration per Run 3	0.0020 ppm	-0.0015 ppm	0.0122 ppm	-0.0103 ppm	-0.0126 ppm	-0.0317 ppm	-0.0043 ppm
Recovery Percentage 1	19.994 %	-3.258 %	0.754 %	-40.784 %	-128.832 %	-61.995 %	13.801 %
Concentration RSD	3.9 %	11.9 %	16.6 %	2.9 %	12.6 %	8.8 %	418.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	-0.0217 ppm	0.0027 ppm	0.0062 ppm	0.0001 ppm	-0.0184 ppm	-0.0025 ppm	-0.0014 ppm
Concentration per Run 1	-0.0215 ppm	0.0035 ppm	0.0062 ppm	-0.0002 ppm	-0.0164 ppm	-0.0022 ppm	-0.0016 ppm
Concentration per Run 2	-0.0221 ppm	0.0011 ppm	0.0062 ppm	0.0004 ppm	-0.0199 ppm	-0.0023 ppm	-0.0014 ppm
Concentration per Run 3	-0.0215 ppm	0.0034 ppm	0.0062 ppm	0.0000 ppm	-0.0191 ppm	-0.0028 ppm	-0.0011 ppm
Recovery Percentage 1	-4.343 %	5.321 %	62.068 %	0.879 %	-92.181 %	-24.531 %	-27.621 %
Concentration RSD	1.4 %	50.9 %	0.3 %	328.5 %	10.0 %	12.0 %	18.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	89.7068 %	80.9202 %	81.4858 %	91.0870 %	55.3542 %	80.5081 %	-0.0030 ppm
Concentration per Run 1	89.6015 %	80.8441 %	81.5582 %	91.6303 %	55.4767 %	80.3842 %	-0.0032 ppm
Concentration per Run 2	89.3247 %	80.9473 %	81.0797 %	90.5995 %	55.0693 %	80.5274 %	-0.0028 ppm
Concentration per Run 3	90.1942 %	80.9693 %	81.8196 %	91.0312 %	55.5167 %	80.6128 %	-0.0029 ppm
Recovery Percentage 1							-29.972 %
Concentration RSD	0.5 %	0.1 %	0.5 %	0.6 %	0.4 %	0.1 %	6.8 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: SIC Cr Mn V Ti
 Analysis started at: 6/26/2025 7:25:35 AM
 Comments: <Comment>
 Rack: 0
 Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0025 ppm	0.0061 ppm	-0.0003 ppm	0.0022 ppm	0.0001 ppm	0.0030 ppm	0.0008 ppm
Concentration per Run 1	0.0022 ppm	0.0089 ppm	0.0002 ppm	0.0024 ppm	0.0001 ppm	0.0034 ppm	0.0005 ppm
Concentration per Run 2	0.0025 ppm	0.0050 ppm	-0.0009 ppm	0.0021 ppm	0.0001 ppm	0.0024 ppm	0.0022 ppm
Concentration per Run 3	0.0029 ppm	0.0042 ppm	-0.0003 ppm	0.0022 ppm	0.0001 ppm	0.0030 ppm	-0.0003 ppm
Recovery Percentage 1	36.260 %	6.061 %	-6.634 %	7.436 %	1.218 %	59.141 %	0.798 %
Concentration RSD	13.6 %	41.3 %	167.1 %	6.1 %	17.6 %	16.7 %	158.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0020 ppm	-0.0076 ppm	19.8837 ppm	-0.0024 ppm	0.0107 ppm	-0.0035 ppm	-0.0680 ppm
Concentration per Run 1	-0.0020 ppm	-0.0086 ppm	19.9655 ppm	-0.0021 ppm	0.0120 ppm	-0.0042 ppm	-0.0670 ppm
Concentration per Run 2	-0.0020 ppm	-0.0066 ppm	19.8499 ppm	-0.0027 ppm	0.0104 ppm	-0.0002 ppm	-0.0688 ppm
Concentration per Run 3	-0.0019 ppm	-0.0077 ppm	19.8358 ppm	-0.0024 ppm	0.0097 ppm	-0.0060 ppm	-0.0682 ppm
Recovery Percentage 1	-49.354 %	-38.133 %	198,837.473 %	-24.158 %	21.450 %	-0.139 %	-68.016 %
Concentration RSD	2.3 %	13.5 %	0.4 %	11.6 %	11.0 %	85.4 %	1.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	20.3212 [SIC 20]	-0.0023 ppm	0.0066 ppm	-0.0001 ppm	-0.0077 ppm	0.0119 ppm	-0.0071 ppm
Concentration per Run 1	19.9929 ppm	-0.0022 ppm	0.0050 ppm	-0.0003 ppm	-0.0078 ppm	0.0123 ppm	-0.0081 ppm
Concentration per Run 2	20.4562 ppm	-0.0024 ppm	0.0076 ppm	-0.0002 ppm	-0.0075 ppm	0.0125 ppm	-0.0070 ppm
Concentration per Run 3	20.5145 ppm	-0.0023 ppm	0.0071 ppm	0.0001 ppm	-0.0080 ppm	0.0109 ppm	-0.0061 ppm
Recovery Percentage 1	203,211.903 %	-4.586 %	0.328 %	-0.543 %	-77.483 %	23.836 %	-70.651 %
Concentration RSD	1.4 %	3.5 %	21.6 %	178.0 %	3.3 %	7.3 %	14.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.1067 ppm	-0.0016 ppm	0.0000 ppm	19.8266 ppm	-0.0113 ppm	9.9794 ppm	0.0012 ppm
Concentration per Run 1	0.1056 ppm	-0.0010 ppm	0.0000 ppm	20.1709 ppm	-0.0094 ppm	10.1059 ppm	0.0011 ppm
Concentration per Run 2	0.1085 ppm	-0.0023 ppm	0.0000 ppm	19.5179 ppm	-0.0118 ppm	10.1121 ppm	0.0011 ppm
Concentration per Run 3	0.1060 ppm	-0.0014 ppm	0.0001 ppm	19.7910 ppm	-0.0128 ppm	9.7202 ppm	0.0013 ppm
Recovery Percentage 1	21.342 %	-3.159 %	0.429 %	198,266.237 %	-56.666 %	99,793.665 %	23.688 %
Concentration RSD	1.5 %	39.4 %	87.1 %	1.7 %	15.1 %	2.2 %	11.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.4539 %	97.8953 %	97.5036 %	101.3124 %	92.1726 %	97.8271 %	-0.0019 ppm
Concentration per Run 1	101.2625 %	97.6582 %	98.0456 %	102.5846 %	92.7392 %	97.6679 %	-0.0019 ppm
Concentration per Run 2	98.8354 %	97.7418 %	98.0638 %	100.9428 %	93.0544 %	97.7108 %	-0.0016 ppm
Concentration per Run 3	98.2639 %	98.2859 %	96.4015 %	100.4097 %	90.7242 %	98.1027 %	-0.0021 ppm
Recovery Percentage 1							-18.811 %
Concentration RSD	1.6 %	0.3 %	1.0 %	1.1 %	1.4 %	0.2 %	13.3 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: LDR Check
Analysis started at: 6/26/2025 7:33:10 AM
Comments: <Comment>
Rack: 0
Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0013 ppm	0.1015 ppm	5.5524 ppm	5.2267 [SIC 20]	10.0049 [SIC 20]	0.0006 ppm	0.0244 ppm
Concentration per Run 1	0.0016 ppm	0.1015 ppm	5.5362 ppm	5.2278 ppm	9.8948 ppm	0.0006 ppm	0.0268 ppm
Concentration per Run 2	0.0012 ppm	0.1005 ppm	5.5674 ppm	5.2106 ppm	10.1474 ppm	0.0007 ppm	0.0216 ppm
Concentration per Run 3	0.0011 ppm	0.1024 ppm	5.5537 ppm	5.2416 ppm	9.9724 ppm	0.0006 ppm	0.0249 ppm
Recovery Percentage 1	0.000 %	0.000 %	111.048 %	104.534 %	100.049 %	0.000 %	0.000 %
Concentration RSD	17.8 %	1.0 %	0.3 %	0.3 %	1.3 %	1.9 %	10.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0010 ppm	-0.0004 ppm	20.2480 [SIC 20]	0.0046 ppm	295.1749 ppm	-0.0408 ppm
Concentration per Run 1	0.0000 ppm	0.0008 ppm	-0.0006 ppm	20.6090 ppm	0.0050 ppm	285.5274 ppm	-0.0410 ppm
Concentration per Run 2	0.0000 ppm	0.0009 ppm	-0.0004 ppm	20.1167 ppm	0.0045 ppm	310.1649 ppm	-0.0413 ppm
Concentration per Run 3	0.0001 ppm	0.0014 ppm	-0.0001 ppm	20.0182 ppm	0.0044 ppm	289.8324 ppm	-0.0403 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	101.240 %	0.000 %	98.392 %	0.000 %
Concentration RSD	74.6 %	31.7 %	78.8 %	1.6 %	6.6 %	4.5 %	1.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0005 ppm	5.0812 [SIC 20]	434.7946 ppm	10.9504 [SIC 20]	52.0467 ppm	-0.0010 ppm	-0.0023 ppm
Concentration per Run 1	0.0006 ppm	5.0897 ppm	465.8558 ppm	10.9661 ppm	52.0860 ppm	-0.0009 ppm	-0.0015 ppm
Concentration per Run 2	0.0006 ppm	5.0526 ppm	420.5405 ppm	10.9152 ppm	51.9246 ppm	-0.0009 ppm	-0.0018 ppm
Concentration per Run 3	0.0003 ppm	5.1014 ppm	417.9874 ppm	10.9699 ppm	52.1295 ppm	-0.0012 ppm	-0.0036 ppm
Recovery Percentage 1	0.000 %	101.625 %	86.959 %	109.504 %	104.093 %	0.000 %	0.000 %
Concentration RSD	32.8 %	0.5 %	6.2 %	0.3 %	0.2 %	19.3 %	49.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	24.9642 [SIC 200]	0.0030 ppm	0.0010 ppm	0.0011 ppm	-0.0064 ppm	0.0011 ppm	20.9067 [SIC 20]
Concentration per Run 1	24.9455 ppm	0.0027 ppm	0.0010 ppm	0.0012 ppm	-0.0044 ppm	0.0012 ppm	20.9485 ppm
Concentration per Run 2	24.9620 ppm	0.0030 ppm	0.0009 ppm	0.0011 ppm	-0.0069 ppm	0.0010 ppm	20.7941 ppm
Concentration per Run 3	24.9850 ppm	0.0033 ppm	0.0010 ppm	0.0012 ppm	-0.0078 ppm	0.0012 ppm	20.9775 ppm
Recovery Percentage 1	124.821 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	104.533 %
Concentration RSD	0.1 %	10.8 %	5.4 %	5.3 %	27.5 %	10.7 %	0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	92.7105 %	82.8598 %	83.2996 %	93.7819 %	64.9745 %	81.8052 %	4.8933 ppm
Concentration per Run 1	93.1688 %	82.7649 %	83.4806 %	93.7684 %	64.9408 %	81.6419 %	4.7966 ppm
Concentration per Run 2	92.5336 %	83.0471 %	83.1425 %	93.7798 %	64.9698 %	82.0490 %	5.0877 ppm
Concentration per Run 3	92.4291 %	82.7673 %	83.2757 %	93.7975 %	65.0127 %	81.7249 %	4.7955 ppm
Recovery Percentage 1							97.866 %
Concentration RSD	0.4 %	0.2 %	0.2 %	0.0 %	0.1 %	0.3 %	3.4 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: LDR 5PPM AS PASS
 Analysis started at: 6/26/2025 7:45:21 AM
 Comments: <Comment>
 Rack: 1
 Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0004 ppm	0.0023 ppm	4.9480 ppm	0.0033 ppm	0.0001 ppm	0.0000 ppm	0.0046 ppm
Concentration per Run 1	0.0003 ppm	0.0054 ppm	4.9371 ppm	0.0036 ppm	0.0000 ppm	0.0000 ppm	0.0030 ppm
Concentration per Run 2	0.0003 ppm	0.0018 ppm	4.9508 ppm	0.0032 ppm	0.0000 ppm	0.0000 ppm	0.0052 ppm
Concentration per Run 3	0.0005 ppm	-0.0004 ppm	4.9560 ppm	0.0030 ppm	0.0001 ppm	0.0000 ppm	0.0056 ppm
Concentration RSD	29.0 %	129.4 %	0.2 %	10.1 %	58.0 %	3,008.8 %	30.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0011 ppm	0.0000 ppm	0.0000 ppm	0.0005 ppm	0.0022 ppm	0.0198 ppm	0.0041 ppm
Concentration per Run 1	-0.0011 ppm	0.0001 ppm	0.0000 ppm	0.0006 ppm	0.0024 ppm	0.0217 ppm	0.0042 ppm
Concentration per Run 2	-0.0011 ppm	0.0000 ppm	0.0000 ppm	0.0006 ppm	0.0023 ppm	0.0239 ppm	0.0036 ppm
Concentration per Run 3	-0.0011 ppm	-0.0002 ppm	0.0001 ppm	0.0004 ppm	0.0020 ppm	0.0137 ppm	0.0045 ppm
Concentration RSD	1.3 %	581.8 %	187.6 %	25.4 %	10.5 %	27.1 %	10.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	0.0019 ppm	0.0209 ppm	0.0002 ppm	0.0004 ppm	0.0047 ppm	0.0011 ppm
Concentration per Run 1	0.0001 ppm	0.0019 ppm	0.0218 ppm	0.0002 ppm	0.0007 ppm	0.0042 ppm	0.0018 ppm
Concentration per Run 2	0.0003 ppm	0.0019 ppm	0.0214 ppm	0.0003 ppm	-0.0001 ppm	0.0050 ppm	0.0019 ppm
Concentration per Run 3	0.0000 ppm	0.0017 ppm	0.0196 ppm	0.0003 ppm	0.0005 ppm	0.0049 ppm	-0.0003 ppm
Concentration RSD	168.8 %	6.4 %	5.4 %	24.8 %	105.2 %	9.6 %	109.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0017 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0007 ppm	0.0002 ppm	0.0002 ppm
Concentration per Run 1	0.0017 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0016 ppm	0.0002 ppm	0.0001 ppm
Concentration per Run 2	0.0017 ppm	-0.0003 ppm	0.0000 ppm	0.0001 ppm	-0.0004 ppm	0.0003 ppm	0.0002 ppm
Concentration per Run 3	0.0016 ppm	0.0002 ppm	-0.0001 ppm	0.0001 ppm	-0.0002 ppm	0.0001 ppm	0.0002 ppm
Concentration RSD	4.3 %	1,703.3 %	364.1 %	85.5 %	109.1 %	60.2 %	19.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.9252 %	102.2486 %	101.1901 %	100.5637 %	104.1417 %	101.3510 %	0.0001 ppm
Concentration per Run 1	103.1488 %	102.5059 %	101.7401 %	100.5056 %	104.0187 %	101.3881 %	0.0003 ppm
Concentration per Run 2	101.2797 %	102.1155 %	100.7254 %	100.5839 %	104.3495 %	101.2887 %	-0.0001 ppm
Concentration per Run 3	101.3472 %	102.1243 %	101.1048 %	100.6016 %	104.0571 %	101.3763 %	0.0001 ppm
Concentration RSD	1.0 %	0.2 %	0.5 %	0.1 %	0.2 %	0.1 %	206.4 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: LDR 20PPM ZN PASS
 Analysis started at: 6/26/2025 7:51:58 AM
 Comments: <Comment>
 Rack: 1
 Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0030 ppm	0.0009 ppm	0.0027 ppm	0.0002 ppm	0.0000 ppm	0.0008 ppm
Concentration per Run 1	-0.0001 ppm	0.0033 ppm	0.0008 ppm	0.0025 ppm	0.0002 ppm	0.0000 ppm	0.0010 ppm
Concentration per Run 2	-0.0001 ppm	0.0023 ppm	0.0016 ppm	0.0028 ppm	0.0002 ppm	0.0000 ppm	0.0010 ppm
Concentration per Run 3	-0.0001 ppm	0.0033 ppm	0.0004 ppm	0.0026 ppm	0.0002 ppm	0.0000 ppm	0.0004 ppm
Concentration RSD	25.6 %	19.5 %	62.7 %	5.6 %	3.0 %	131.4 %	40.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0006 ppm	0.0021 ppm	0.0087 ppm	0.0011 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0005 ppm	0.0019 ppm	0.0068 ppm	0.0010 ppm
Concentration per Run 2	0.0002 ppm	-0.0001 ppm	0.0002 ppm	0.0006 ppm	0.0025 ppm	0.0141 ppm	0.0000 ppm
Concentration per Run 3	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0006 ppm	0.0018 ppm	0.0052 ppm	0.0021 ppm
Concentration RSD	14.7 %	102.9 %	145.7 %	12.7 %	20.1 %	54.2 %	98.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0010 ppm	0.0062 ppm	0.0002 ppm	0.0004 ppm	-0.0009 ppm	0.0001 ppm
Concentration per Run 1	0.0000 ppm	0.0012 ppm	0.0059 ppm	0.0000 ppm	0.0005 ppm	-0.0017 ppm	-0.0004 ppm
Concentration per Run 2	0.0000 ppm	0.0008 ppm	0.0060 ppm	0.0003 ppm	0.0003 ppm	-0.0009 ppm	-0.0001 ppm
Concentration per Run 3	-0.0001 ppm	0.0009 ppm	0.0069 ppm	0.0001 ppm	0.0005 ppm	-0.0002 ppm	0.0008 ppm
Concentration RSD	226.0 %	19.7 %	8.7 %	77.3 %	23.7 %	76.9 %	571.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0005 ppm	0.0002 ppm	0.0000 ppm	-0.0001 ppm	-0.0009 ppm	-0.0001 ppm	19.3434 ppm
Concentration per Run 1	0.0005 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	0.0000 ppm	19.3638 ppm
Concentration per Run 2	0.0006 ppm	0.0004 ppm	0.0000 ppm	-0.0001 ppm	-0.0008 ppm	0.0000 ppm	19.3465 ppm
Concentration per Run 3	0.0003 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm	-0.0016 ppm	-0.0002 ppm	19.3199 ppm
Concentration RSD	36.9 %	110.7 %	245.4 %	168.9 %	76.1 %	166.3 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.6705 %	101.3597 %	100.1891 %	98.3336 %	101.3744 %	98.9014 %	-0.0001 ppm
Concentration per Run 1	100.5174 %	101.8593 %	100.5925 %	97.3891 %	101.5178 %	99.3703 %	-0.0003 ppm
Concentration per Run 2	100.3994 %	101.1569 %	99.8157 %	98.3434 %	101.4547 %	98.5803 %	-0.0001 ppm
Concentration per Run 3	101.0947 %	101.0631 %	100.1591 %	99.2682 %	101.1506 %	98.7535 %	0.0002 ppm
Concentration RSD	0.4 %	0.4 %	0.4 %	1.0 %	0.2 %	0.4 %	476.8 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: LDR 500PPM NA PASS
 Analysis started at: 6/26/2025 7:58:36 AM
 Comments: <Comment>
 Rack: 1
 Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0041 ppm	0.0003 ppm	0.0021 ppm	0.0000 ppm	0.0000 ppm	0.0042 ppm
Concentration per Run 1	-0.0004 ppm	0.0039 ppm	-0.0004 ppm	0.0021 ppm	0.0000 ppm	0.0000 ppm	0.0058 ppm
Concentration per Run 2	0.0002 ppm	0.0050 ppm	0.0009 ppm	0.0024 ppm	0.0000 ppm	0.0000 ppm	0.0049 ppm
Concentration per Run 3	-0.0001 ppm	0.0034 ppm	0.0003 ppm	0.0020 ppm	0.0000 ppm	0.0000 ppm	0.0019 ppm
Concentration RSD	260.9 %	20.7 %	237.3 %	8.8 %	44.1 %	38.0 %	49.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0020 ppm	0.0008 ppm	0.0827 ppm	-0.0003 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0019 ppm	0.0014 ppm	0.0723 ppm	-0.0012 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0018 ppm	-0.0003 ppm	0.0788 ppm	0.0010 ppm
Concentration per Run 3	0.0001 ppm	0.0000 ppm	0.0004 ppm	0.0022 ppm	0.0012 ppm	0.0969 ppm	-0.0006 ppm
Concentration RSD	184.4 %	359.2 %	352.0 %	11.6 %	114.7 %	15.4 %	390.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0006 ppm	456.2208 ppm	-0.0002 ppm	-0.0006 ppm	0.0002 ppm	0.0006 ppm
Concentration per Run 1	0.0001 ppm	0.0007 ppm	496.4871 ppm	-0.0001 ppm	-0.0005 ppm	0.0002 ppm	0.0004 ppm
Concentration per Run 2	0.0000 ppm	0.0005 ppm	432.7299 ppm	-0.0003 ppm	-0.0002 ppm	0.0005 ppm	-0.0004 ppm
Concentration per Run 3	0.0000 ppm	0.0005 ppm	439.4456 ppm	-0.0004 ppm	-0.0011 ppm	0.0000 ppm	0.0017 ppm
Concentration RSD	163.3 %	20.4 %	7.7 %	70.1 %	67.8 %	107.0 %	181.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0033 ppm	-0.0001 ppm	0.0000 ppm	-0.0001 ppm	-0.0023 ppm	-0.0003 ppm	0.0001 ppm
Concentration per Run 1	0.0037 ppm	-0.0003 ppm	0.0000 ppm	-0.0001 ppm	-0.0012 ppm	-0.0003 ppm	0.0001 ppm
Concentration per Run 2	0.0032 ppm	-0.0003 ppm	0.0000 ppm	-0.0001 ppm	-0.0034 ppm	-0.0004 ppm	0.0001 ppm
Concentration per Run 3	0.0032 ppm	0.0004 ppm	0.0001 ppm	0.0000 ppm	-0.0022 ppm	-0.0004 ppm	0.0003 ppm
Concentration RSD	8.6 %	558.6 %	82.8 %	132.6 %	50.2 %	19.8 %	70.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	94.5436 %	85.3610 %	87.6534 %	93.4927 %	68.0614 %	84.0585 %	0.0003 ppm
Concentration per Run 1	95.1734 %	85.4959 %	87.1936 %	93.0781 %	67.8536 %	84.1688 %	0.0006 ppm
Concentration per Run 2	94.5900 %	85.5767 %	88.2732 %	93.7943 %	68.1975 %	84.2577 %	0.0004 ppm
Concentration per Run 3	93.8674 %	85.0103 %	87.4932 %	93.6057 %	68.1331 %	83.7489 %	0.0001 ppm
Concentration RSD	0.7 %	0.4 %	0.6 %	0.4 %	0.3 %	0.3 %	79.7 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: LDR 500PPM MG PASS
 Analysis started at: 6/26/2025 8:06:26 AM
 Comments: <Comment>
 Rack: 1
 Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0002 ppm	0.0029 ppm	0.0003 ppm	0.0020 ppm	0.0017 ppm	0.0000 ppm	-0.0317 ppm
Concentration per Run 1	0.0002 ppm	0.0047 ppm	-0.0008 ppm	0.0020 ppm	0.0016 ppm	0.0000 ppm	-0.0291 ppm
Concentration per Run 2	0.0004 ppm	0.0021 ppm	0.0002 ppm	0.0020 ppm	0.0016 ppm	0.0000 ppm	-0.0349 ppm
Concentration per Run 3	0.0000 ppm	0.0020 ppm	0.0015 ppm	0.0018 ppm	0.0017 ppm	0.0000 ppm	-0.0310 ppm
Recovery Percentage 1	2.787 %	2.921 %	5.716 %	6.532 %	16.548 %	0.486 %	-31.677 %
Concentration RSD	92.4 %	52.8 %	406.3 %	5.2 %	2.0 %	47.1 %	9.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0002 ppm	-0.0001 ppm	-0.0038 ppm	-0.0357 ppm	0.0292 ppm	484.2333 ppm
Concentration per Run 1	0.0001 ppm	0.0002 ppm	-0.0002 ppm	-0.0037 ppm	-0.0366 ppm	0.0296 ppm	493.7472 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0001 ppm	-0.0038 ppm	-0.0353 ppm	0.0310 ppm	483.2745 ppm
Concentration per Run 3	0.0000 ppm	0.0003 ppm	-0.0003 ppm	-0.0038 ppm	-0.0351 ppm	0.0270 ppm	475.6781 ppm
Recovery Percentage 1	1.740 %	0.977 %	-1.168 %	-37.721 %	-71.355 %	1.167 %	484.233.260 %
Concentration RSD	67.6 %	48.3 %	187.9 %	1.6 %	2.3 %	7.0 %	1.9 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0005 ppm	0.0002 ppm	0.0638 ppm	-0.0006 ppm	-0.0011 ppm	0.0006 ppm	-0.0016 ppm
Concentration per Run 1	0.0006 ppm	0.0003 ppm	0.0659 ppm	-0.0004 ppm	-0.0014 ppm	0.0008 ppm	-0.0011 ppm
Concentration per Run 2	0.0006 ppm	0.0000 ppm	0.0641 ppm	-0.0007 ppm	-0.0007 ppm	0.0009 ppm	-0.0013 ppm
Concentration per Run 3	0.0004 ppm	0.0003 ppm	0.0616 ppm	-0.0008 ppm	-0.0013 ppm	0.0001 ppm	-0.0024 ppm
Recovery Percentage 1	5.271 %	0.416 %	3.192 %	-2.480 %	-11.095 %	1.142 %	-15.780 %
Concentration RSD	28.8 %	89.0 %	3.4 %	36.2 %	35.4 %	78.3 %	42.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0047 ppm	0.0003 ppm	-0.0042 ppm	0.0004 ppm	-0.0027 ppm	-0.0010 ppm	-0.0002 ppm
Concentration per Run 1	0.0054 ppm	0.0000 ppm	-0.0043 ppm	0.0006 ppm	-0.0038 ppm	-0.0011 ppm	-0.0001 ppm
Concentration per Run 2	0.0040 ppm	0.0008 ppm	-0.0042 ppm	0.0006 ppm	-0.0021 ppm	-0.0008 ppm	-0.0002 ppm
Concentration per Run 3	0.0048 ppm	0.0002 ppm	-0.0041 ppm	0.0000 ppm	-0.0023 ppm	-0.0011 ppm	-0.0003 ppm
Recovery Percentage 1	0.946 %	0.633 %	-42.220 %	3.916 %	-13.667 %	-10.009 %	-3.953 %
Concentration RSD	15.6 %	133.7 %	2.6 %	75.9 %	35.1 %	17.2 %	42.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	94.8429 %	87.7088 %	86.7276 %	91.9804 %	68.9052 %	85.4507 %	0.0003 ppm
Concentration per Run 1	94.8948 %	87.7288 %	86.1931 %	90.7669 %	68.6092 %	85.2445 %	0.0003 ppm
Concentration per Run 2	94.4184 %	87.6808 %	87.0259 %	92.0214 %	69.0743 %	85.3188 %	0.0004 ppm
Concentration per Run 3	95.2153 %	87.7167 %	86.9638 %	93.1528 %	69.0322 %	85.7888 %	0.0001 ppm
Recovery Percentage 1							2.651 %
Concentration RSD	0.4 %	0.0 %	0.5 %	1.3 %	0.4 %	0.3 %	42.5 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: CCV
Analysis started at: 6/26/2025 8:15:40 AM
Comments: <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5158 ppm	0.5105 ppm	0.4759 ppm	0.5139 ppm	0.5051 ppm	0.5117 ppm	0.5245 ppm
Concentration per Run 1	0.5155 ppm	0.5129 ppm	0.4780 ppm	0.5129 ppm	0.5073 ppm	0.5139 ppm	0.5265 ppm
Concentration per Run 2	0.5167 ppm	0.5104 ppm	0.4782 ppm	0.5129 ppm	0.5052 ppm	0.5088 ppm	0.5189 ppm
Concentration per Run 3	0.5151 ppm	0.5082 ppm	0.4714 ppm	0.5160 ppm	0.5026 ppm	0.5124 ppm	0.5281 ppm
Recovery Percentage 1	103.156 %	102.097 %	95.179 %	102.784 %	101.013 %	102.341 %	104.893 %
Concentration RSD	0.2 %	0.5 %	0.8 %	0.3 %	0.5 %	0.5 %	0.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4904 ppm	0.5193 ppm	0.5173 ppm	0.5057 ppm	0.5174 ppm	5.4286 ppm	0.5249 ppm
Concentration per Run 1	0.4918 ppm	0.5193 ppm	0.5174 ppm	0.5033 ppm	0.5213 ppm	5.4536 ppm	0.5216 ppm
Concentration per Run 2	0.4838 ppm	0.5157 ppm	0.5162 ppm	0.5069 ppm	0.5122 ppm	5.4912 ppm	0.5259 ppm
Concentration per Run 3	0.4957 ppm	0.5228 ppm	0.5185 ppm	0.5070 ppm	0.5188 ppm	5.3408 ppm	0.5274 ppm
Recovery Percentage 1	98.088 %	103.852 %	103.468 %	101.146 %	103.486 %	108.571 %	104.988 %
Concentration RSD	1.2 %	0.7 %	0.2 %	0.4 %	0.9 %	1.4 %	0.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5226 ppm	0.4972 ppm	10.3065 ppm	0.4731 ppm	0.4870 ppm	0.4797 ppm	0.5089 ppm
Concentration per Run 1	0.5250 ppm	0.4962 ppm	10.3682 ppm	0.4734 ppm	0.4861 ppm	0.4780 ppm	0.5054 ppm
Concentration per Run 2	0.5181 ppm	0.4939 ppm	10.4304 ppm	0.4714 ppm	0.4881 ppm	0.4825 ppm	0.5121 ppm
Concentration per Run 3	0.5246 ppm	0.5014 ppm	10.1210 ppm	0.4744 ppm	0.4868 ppm	0.4787 ppm	0.5093 ppm
Recovery Percentage 1	104.513 %	99.431 %	103.065 %	94.612 %	97.402 %	95.949 %	101.784 %
Concentration RSD	0.7 %	0.8 %	1.6 %	0.3 %	0.2 %	0.5 %	0.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.2065 ppm	0.4659 ppm	0.5234 ppm	0.5085 ppm	0.4926 ppm	0.5069 ppm	0.5097 ppm
Concentration per Run 1	5.1957 ppm	0.4652 ppm	0.5255 ppm	0.5087 ppm	0.4924 ppm	0.5081 ppm	0.5112 ppm
Concentration per Run 2	5.2178 ppm	0.4662 ppm	0.5231 ppm	0.5081 ppm	0.4958 ppm	0.5056 ppm	0.5075 ppm
Concentration per Run 3	5.2060 ppm	0.4663 ppm	0.5216 ppm	0.5089 ppm	0.4895 ppm	0.5071 ppm	0.5104 ppm
Recovery Percentage 1	99.171 %	93.181 %	104.679 %	101.709 %	98.517 %	101.386 %	101.946 %
Concentration RSD	0.2 %	0.1 %	0.4 %	0.1 %	0.6 %	0.2 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.6077 %	98.7265 %	98.1251 %	100.0857 %	94.0836 %	98.4000 %	0.5368 ppm
Concentration per Run 1	99.7517 %	99.0142 %	98.6526 %	99.6983 %	94.3786 %	98.7795 %	0.5401 ppm
Concentration per Run 2	99.8916 %	98.7807 %	97.2430 %	100.6377 %	93.5245 %	98.3794 %	0.5459 ppm
Concentration per Run 3	99.1797 %	98.3845 %	98.4796 %	99.9211 %	94.3478 %	98.0410 %	0.5245 ppm
Recovery Percentage 1							107.361 %
Concentration RSD	0.4 %	0.3 %	0.8 %	0.5 %	0.5 %	0.4 %	2.1 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: CCB
Analysis started at: 6/26/2025 8:22:00 AM
Comments: <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0023 ppm	-0.0011 ppm	0.0015 ppm	0.0000 ppm	0.0000 ppm	-0.0032 ppm
Concentration per Run 1	-0.0003 ppm	0.0000 ppm	-0.0015 ppm	0.0017 ppm	0.0000 ppm	0.0000 ppm	-0.0018 ppm
Concentration per Run 2	-0.0002 ppm	0.0041 ppm	-0.0004 ppm	0.0014 ppm	0.0000 ppm	0.0000 ppm	-0.0022 ppm
Concentration per Run 3	0.0000 ppm	0.0027 ppm	-0.0014 ppm	0.0014 ppm	0.0000 ppm	0.0000 ppm	-0.0056 ppm
Recovery Percentage 1	-2.250 %	2.289 %	-21.846 %	5.034 %	0.159 %	0.361 %	-3.209 %
Concentration RSD	67.8 %	90.6 %	56.6 %	11.9 %	93.6 %	136.5 %	65.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0007 ppm	0.0006 ppm	0.0018 ppm	-0.0002 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0005 ppm	0.0009 ppm	0.0064 ppm	-0.0005 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	0.0003 ppm	0.0008 ppm	0.0000 ppm	-0.0010 ppm	0.0012 ppm
Concentration per Run 3	-0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0007 ppm	0.0007 ppm	0.0000 ppm	-0.0012 ppm
Recovery Percentage 1	0.344 %	-0.391 %	1.510 %	6.907 %	1.110 %	0.073 %	-0.175 %
Concentration RSD	471.3 %	6.6 %	112.4 %	20.9 %	87.5 %	221.2 %	693.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	0.0007 ppm	0.0103 ppm	0.0003 ppm	0.0003 ppm	0.0007 ppm	0.0003 ppm
Concentration per Run 1	0.0000 ppm	0.0007 ppm	0.0113 ppm	0.0002 ppm	0.0003 ppm	0.0011 ppm	0.0010 ppm
Concentration per Run 2	0.0001 ppm	0.0008 ppm	0.0105 ppm	0.0004 ppm	0.0005 ppm	0.0004 ppm	-0.0001 ppm
Concentration per Run 3	0.0002 ppm	0.0006 ppm	0.0090 ppm	0.0003 ppm	0.0002 ppm	0.0007 ppm	-0.0001 ppm
Recovery Percentage 1	1.148 %	1.350 %	0.514 %	1.286 %	3.440 %	1.445 %	2.507 %
Concentration RSD	82.7 %	14.6 %	11.0 %	40.8 %	40.3 %	51.8 %	248.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	-0.0002 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 1	-0.0001 ppm	0.0003 ppm	0.0000 ppm	0.0001 ppm	-0.0002 ppm	0.0000 ppm	-0.0002 ppm
Concentration per Run 2	-0.0001 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0008 ppm	0.0002 ppm	-0.0001 ppm
Concentration per Run 3	-0.0003 ppm	-0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0000 ppm	-0.0001 ppm	0.0000 ppm
Recovery Percentage 1	-0.031 %	0.232 %	-0.054 %	0.727 %	0.971 %	0.140 %	-1.675 %
Concentration RSD	89.8 %	188.4 %	275.4 %	195.9 %	271.1 %	899.5 %	108.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.5731 %	101.6520 %	99.7542 %	99.0139 %	102.0211 %	99.5651 %	-0.0002 ppm
Concentration per Run 1	102.8864 %	101.5345 %	99.8184 %	98.7429 %	102.1660 %	99.4524 %	-0.0004 ppm
Concentration per Run 2	101.0007 %	102.0919 %	99.8329 %	98.8328 %	102.1363 %	100.0009 %	0.0002 ppm
Concentration per Run 3	100.8321 %	101.3296 %	99.6111 %	99.4659 %	101.7609 %	99.2418 %	-0.0002 ppm
Recovery Percentage 1							-1.598 %
Concentration RSD	1.1 %	0.4 %	0.1 %	0.4 %	0.2 %	0.4 %	194.9 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: WG2082870-1 WG2082870

Analysis started at: 6/26/2025 8:34:59 AM

Comments: <Comment>

Rack: 1

Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0013 ppm	-0.0011 ppm	0.0013 ppm	0.0000 ppm	0.0000 ppm	0.0062 ppm
Concentration per Run 1	-0.0001 ppm	-0.0003 ppm	-0.0016 ppm	0.0015 ppm	0.0000 ppm	0.0000 ppm	0.0090 ppm
Concentration per Run 2	-0.0002 ppm	0.0040 ppm	-0.0007 ppm	0.0012 ppm	0.0000 ppm	0.0000 ppm	0.0019 ppm
Concentration per Run 3	-0.0001 ppm	0.0001 ppm	-0.0011 ppm	0.0013 ppm	0.0001 ppm	0.0000 ppm	0.0077 ppm
Recovery Percentage 1	-2.285 %	1.271 %	-22.487 %	4.375 %	0.435 %	0.219 %	6.188 %
Concentration RSD	45.7 %	188.5 %	38.3 %	12.7 %	83.3 %	122.8 %	61.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0010 ppm	0.0014 ppm	0.0063 ppm	0.0021 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0011 ppm	0.0014 ppm	0.0077 ppm	0.0021 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0002 ppm	0.0010 ppm	0.0015 ppm	0.0049 ppm	0.0014 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0010 ppm	0.0012 ppm	0.0064 ppm	0.0029 ppm
Recovery Percentage 1	0.070 %	-0.231 %	0.652 %	10.083 %	2.731 %	0.253 %	2.145 %
Concentration RSD	1,539.7 %	127.8 %	341.6 %	7.9 %	8.5 %	21.9 %	36.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	0.0002 ppm	0.0097 ppm	0.0001 ppm	0.0002 ppm	0.0002 ppm	0.0005 ppm
Concentration per Run 1	0.0001 ppm	0.0001 ppm	0.0095 ppm	0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0013 ppm
Concentration per Run 2	0.0001 ppm	0.0002 ppm	0.0078 ppm	0.0001 ppm	0.0002 ppm	0.0003 ppm	-0.0004 ppm
Concentration per Run 3	0.0003 ppm	0.0002 ppm	0.0119 ppm	0.0001 ppm	0.0002 ppm	-0.0001 ppm	0.0007 ppm
Recovery Percentage 1	1.566 %	0.344 %	0.487 %	0.339 %	1.865 %	0.343 %	5.433 %
Concentration RSD	63.1 %	37.4 %	20.9 %	37.9 %	53.9 %	149.1 %	167.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0087 ppm	-0.0003 ppm	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0001 ppm	0.0002 ppm
Concentration per Run 1	0.0087 ppm	-0.0003 ppm	0.0000 ppm	-0.0002 ppm	-0.0004 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 2	0.0083 ppm	-0.0007 ppm	0.0000 ppm	-0.0001 ppm	0.0005 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 3	0.0090 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0005 ppm	0.0002 ppm	0.0003 ppm
Recovery Percentage 1	1.741 %	-0.598 %	0.220 %	-0.819 %	1.023 %	0.553 %	4.144 %
Concentration RSD	4.0 %	132.2 %	70.8 %	120.4 %	243.3 %	225.9 %	42.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	102.4441 %	101.8996 %	99.7666 %	97.7167 %	103.6230 %	98.8563 %	-0.0002 ppm
Concentration per Run 1	102.4209 %	102.0251 %	99.6059 %	96.2923 %	104.0503 %	98.8112 %	-0.0003 ppm
Concentration per Run 2	102.4774 %	101.7424 %	100.1147 %	98.3236 %	103.5262 %	98.7843 %	-0.0001 ppm
Concentration per Run 3	102.4341 %	101.9312 %	99.5793 %	98.5343 %	103.2926 %	98.9734 %	-0.0003 ppm
Recovery Percentage 1							-2.456 %
Concentration RSD	0.0 %	0.1 %	0.3 %	1.3 %	0.4 %	0.1 %	37.8 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: WG2082870-2 WG2082870

Analysis started at: 6/26/2025 8:41:40 AM

Comments: <Comment>

Rack: 1

Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0593 ppm	2.4561 ppm	0.1191 ppm	1.0075 ppm	2.2983 ppm	0.0566 ppm	10.7182 ppm
Concentration per Run 1	0.0596 ppm	2.4625 ppm	0.1193 ppm	1.0064 ppm	2.3091 ppm	0.0567 ppm	10.7403 ppm
Concentration per Run 2	0.0591 ppm	2.4594 ppm	0.1203 ppm	1.0092 ppm	2.3093 ppm	0.0566 ppm	10.7385 ppm
Concentration per Run 3	0.0594 ppm	2.4464 ppm	0.1176 ppm	1.0069 ppm	2.2764 ppm	0.0565 ppm	10.6756 ppm
Concentration RSD	0.4 %	0.3 %	1.1 %	0.1 %	0.8 %	0.2 %	0.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0521 ppm	0.5660 ppm	0.2290 ppm	0.2876 ppm	1.1635 ppm	11.8970 ppm	10.5657 ppm
Concentration per Run 1	0.0520 ppm	0.5652 ppm	0.2300 ppm	0.2859 ppm	1.1637 ppm	11.9282 ppm	10.5557 ppm
Concentration per Run 2	0.0525 ppm	0.5680 ppm	0.2290 ppm	0.2867 ppm	1.1657 ppm	11.8785 ppm	10.5488 ppm
Concentration per Run 3	0.0519 ppm	0.5648 ppm	0.2280 ppm	0.2902 ppm	1.1612 ppm	11.8842 ppm	10.5925 ppm
Concentration RSD	0.6 %	0.3 %	0.4 %	0.8 %	0.2 %	0.2 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5790 ppm	0.9859 ppm	11.5331 ppm	0.5264 ppm	0.5221 ppm	0.4882 ppm	0.1261 ppm
Concentration per Run 1	0.5794 ppm	0.9834 ppm	11.5666 ppm	0.5270 ppm	0.5226 ppm	0.4869 ppm	0.1260 ppm
Concentration per Run 2	0.5797 ppm	0.9895 ppm	11.5110 ppm	0.5266 ppm	0.5214 ppm	0.4868 ppm	0.1251 ppm
Concentration per Run 3	0.5778 ppm	0.9848 ppm	11.5216 ppm	0.5255 ppm	0.5222 ppm	0.4909 ppm	0.1274 ppm
Concentration RSD	0.2 %	0.3 %	0.3 %	0.1 %	0.1 %	0.5 %	0.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.2232 ppm	0.9303 ppm	1.0781 ppm	1.0397 ppm	0.1161 ppm	0.5699 ppm	0.5594 ppm
Concentration per Run 1	1.2255 ppm	0.9320 ppm	1.0791 ppm	1.0414 ppm	0.1164 ppm	0.5712 ppm	0.5590 ppm
Concentration per Run 2	1.2202 ppm	0.9305 ppm	1.0793 ppm	1.0382 ppm	0.1162 ppm	0.5692 ppm	0.5617 ppm
Concentration per Run 3	1.2240 ppm	0.9284 ppm	1.0760 ppm	1.0395 ppm	0.1157 ppm	0.5694 ppm	0.5575 ppm
Concentration RSD	0.2 %	0.2 %	0.2 %	0.2 %	0.3 %	0.2 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.1239 %	97.6124 %	95.5996 %	99.1245 %	90.7204 %	96.1105 %	-0.0001 ppm
Concentration per Run 1	102.4812 %	97.8812 %	95.8864 %	99.3001 %	90.5858 %	96.2409 %	-0.0001 ppm
Concentration per Run 2	100.8029 %	97.3700 %	95.7123 %	98.9190 %	90.8700 %	95.9512 %	0.0001 ppm
Concentration per Run 3	100.0877 %	97.5860 %	95.2002 %	99.1543 %	90.7053 %	96.1395 %	-0.0003 ppm
Concentration RSD	1.2 %	0.3 %	0.4 %	0.2 %	0.2 %	0.2 %	181.3 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2538795-07 WG2082870
 Analysis started at: 6/26/2025 8:48:06 AM
 Comments: <Comment>
 Rack: 1
 Vial: 18

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.5276 ppm	0.0018 ppm	0.0237 ppm	0.0270 ppm	0.0000 ppm	10.9215 ppm
Concentration per Run 1	0.0000 ppm	0.5284 ppm	0.0022 ppm	0.0239 ppm	0.0273 ppm	0.0000 ppm	11.2739 ppm
Concentration per Run 2	-0.0002 ppm	0.5340 ppm	0.0008 ppm	0.0237 ppm	0.0272 ppm	0.0000 ppm	10.8450 ppm
Concentration per Run 3	-0.0002 ppm	0.5202 ppm	0.0025 ppm	0.0235 ppm	0.0266 ppm	0.0000 ppm	10.6456 ppm
Concentration RSD	104.5 %	1.3 %	48.3 %	0.8 %	1.4 %	79.5 %	2.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0007 ppm	0.0176 ppm	0.0992 ppm	2.2781 ppm	17.9488 ppm	3.2438 ppm
Concentration per Run 1	0.0002 ppm	0.0008 ppm	0.0174 ppm	0.1018 ppm	2.3304 ppm	17.3150 ppm	3.2677 ppm
Concentration per Run 2	0.0001 ppm	0.0006 ppm	0.0180 ppm	0.0988 ppm	2.2694 ppm	18.5119 ppm	3.2470 ppm
Concentration per Run 3	0.0001 ppm	0.0008 ppm	0.0174 ppm	0.0972 ppm	2.2346 ppm	18.0194 ppm	3.2166 ppm
Concentration RSD	36.9 %	14.5 %	2.0 %	2.3 %	2.1 %	3.4 %	0.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0598 ppm	0.0033 ppm	91.8639 ppm	0.0124 ppm	0.0029 ppm	0.0030 ppm	0.0012 ppm
Concentration per Run 1	0.0615 ppm	0.0035 ppm	90.6447 ppm	0.0121 ppm	0.0030 ppm	0.0029 ppm	0.0012 ppm
Concentration per Run 2	0.0594 ppm	0.0032 ppm	91.4728 ppm	0.0125 ppm	0.0026 ppm	0.0032 ppm	0.0027 ppm
Concentration per Run 3	0.0586 ppm	0.0031 ppm	93.4742 ppm	0.0124 ppm	0.0031 ppm	0.0031 ppm	-0.0004 ppm
Concentration RSD	2.5 %	6.5 %	1.6 %	1.7 %	9.6 %	4.5 %	131.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.9698 ppm	0.0048 ppm	0.0458 ppm	0.0099 ppm	-0.0025 ppm	0.0006 ppm	0.1311 ppm
Concentration per Run 1	1.9407 ppm	0.0044 ppm	0.0463 ppm	0.0097 ppm	-0.0034 ppm	0.0004 ppm	0.1296 ppm
Concentration per Run 2	2.0160 ppm	0.0046 ppm	0.0461 ppm	0.0103 ppm	-0.0010 ppm	0.0005 ppm	0.1339 ppm
Concentration per Run 3	1.9527 ppm	0.0052 ppm	0.0451 ppm	0.0096 ppm	-0.0031 ppm	0.0008 ppm	0.1299 ppm
Concentration RSD	2.1 %	8.9 %	1.5 %	3.8 %	51.4 %	32.2 %	1.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.2672 %	91.6941 %	85.4617 %	97.1893 %	81.6925 %	89.5589 %	0.0023 ppm
Concentration per Run 1	100.1372 %	90.6726 %	86.4723 %	95.7703 %	82.7893 %	88.4027 %	0.0020 ppm
Concentration per Run 2	99.5803 %	91.9807 %	83.4618 %	97.0174 %	80.2941 %	89.7852 %	0.0026 ppm
Concentration per Run 3	101.0840 %	92.4291 %	86.4510 %	98.7802 %	81.9942 %	90.4888 %	0.0022 ppm
Concentration RSD	0.8 %	1.0 %	2.0 %	1.6 %	1.6 %	1.2 %	12.0 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2538796-07 WG2082870
 Analysis started at: 6/26/2025 8:54:45 AM
 Comments: <Comment>
 Rack: 1
 Vial: 19

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0545 ppm	0.0012 ppm	0.0112 ppm	0.0134 ppm	0.0000 ppm	7.1667 ppm
Concentration per Run 1	-0.0001 ppm	0.0560 ppm	0.0016 ppm	0.0115 ppm	0.0133 ppm	0.0000 ppm	7.1637 ppm
Concentration per Run 2	0.0001 ppm	0.0551 ppm	0.0004 ppm	0.0112 ppm	0.0134 ppm	0.0000 ppm	7.2013 ppm
Concentration per Run 3	0.0001 ppm	0.0524 ppm	0.0016 ppm	0.0111 ppm	0.0133 ppm	0.0000 ppm	7.1351 ppm
Concentration RSD	214.8 %	3.4 %	56.0 %	1.9 %	0.3 %	198.1 %	0.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0001 ppm	0.0090 ppm	0.0408 ppm	0.4131 ppm	6.0389 ppm	1.7380 ppm
Concentration per Run 1	0.0001 ppm	0.0001 ppm	0.0091 ppm	0.0407 ppm	0.4135 ppm	6.1020 ppm	1.7383 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0087 ppm	0.0410 ppm	0.4144 ppm	5.9117 ppm	1.7315 ppm
Concentration per Run 3	0.0001 ppm	0.0002 ppm	0.0091 ppm	0.0408 ppm	0.4113 ppm	6.1029 ppm	1.7442 ppm
Concentration RSD	75.1 %	32.8 %	2.4 %	0.4 %	0.4 %	1.8 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0252 ppm	0.0009 ppm	28.0325 ppm	0.0038 ppm	-0.0003 ppm	0.0007 ppm	0.0017 ppm
Concentration per Run 1	0.0254 ppm	0.0012 ppm	28.3051 ppm	0.0040 ppm	-0.0007 ppm	-0.0001 ppm	0.0036 ppm
Concentration per Run 2	0.0252 ppm	0.0010 ppm	27.5070 ppm	0.0037 ppm	0.0000 ppm	0.0008 ppm	0.0007 ppm
Concentration per Run 3	0.0252 ppm	0.0007 ppm	28.2853 ppm	0.0038 ppm	-0.0002 ppm	0.0015 ppm	0.0009 ppm
Concentration RSD	0.6 %	26.3 %	1.6 %	3.2 %	125.4 %	109.5 %	94.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.0635 ppm	0.0021 ppm	0.0301 ppm	0.0011 ppm	-0.0015 ppm	0.0001 ppm	0.0364 ppm
Concentration per Run 1	1.0631 ppm	0.0024 ppm	0.0302 ppm	0.0012 ppm	-0.0019 ppm	0.0000 ppm	0.0365 ppm
Concentration per Run 2	1.0654 ppm	0.0021 ppm	0.0301 ppm	0.0011 ppm	-0.0006 ppm	0.0000 ppm	0.0361 ppm
Concentration per Run 3	1.0619 ppm	0.0019 ppm	0.0301 ppm	0.0011 ppm	-0.0021 ppm	0.0002 ppm	0.0365 ppm
Concentration RSD	0.2 %	11.3 %	0.2 %	7.3 %	53.0 %	222.5 %	0.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.1802 %	95.7682 %	90.4353 %	98.5563 %	89.7860 %	93.5206 %	0.0011 ppm
Concentration per Run 1	102.2517 %	96.1390 %	91.2239 %	98.5434 %	89.9202 %	93.8299 %	0.0013 ppm
Concentration per Run 2	100.6992 %	95.5394 %	89.6275 %	98.4031 %	89.6294 %	93.2779 %	0.0005 ppm
Concentration per Run 3	100.5896 %	95.6262 %	90.4544 %	98.7225 %	89.8083 %	93.4542 %	0.0014 ppm
Concentration RSD	0.9 %	0.3 %	0.9 %	0.2 %	0.2 %	0.3 %	45.7 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2538797-07 WG2082870
 Analysis started at: 6/26/2025 9:01:19 AM
 Comments: <Comment>
 Rack: 1
 Vial: 20

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	0.0830 ppm	0.0027 ppm	0.0157 ppm	0.0147 ppm	0.0000 ppm	7.4234 ppm
Concentration per Run 1	0.0001 ppm	0.0838 ppm	0.0036 ppm	0.0166 ppm	0.0147 ppm	0.0000 ppm	7.4121 ppm
Concentration per Run 2	0.0001 ppm	0.0844 ppm	0.0006 ppm	0.0155 ppm	0.0148 ppm	0.0000 ppm	7.3713 ppm
Concentration per Run 3	0.0000 ppm	0.0809 ppm	0.0040 ppm	0.0151 ppm	0.0147 ppm	0.0000 ppm	7.4867 ppm
Concentration RSD	94.1 %	2.2 %	68.7 %	5.2 %	0.4 %	23.0 %	0.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0001 ppm	0.0133 ppm	0.0485 ppm	0.5041 ppm	21.2793 ppm	2.2204 ppm
Concentration per Run 1	0.0001 ppm	0.0001 ppm	0.0133 ppm	0.0519 ppm	0.5040 ppm	21.0812 ppm	2.3193 ppm
Concentration per Run 2	0.0002 ppm	0.0001 ppm	0.0132 ppm	0.0465 ppm	0.5029 ppm	21.7344 ppm	2.1699 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	0.0132 ppm	0.0469 ppm	0.5054 ppm	21.0224 ppm	2.1720 ppm
Concentration RSD	31.5 %	28.9 %	0.6 %	6.2 %	0.2 %	1.9 %	3.9 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0287 ppm	0.0012 ppm	54.1449 ppm	0.0058 ppm	0.0005 ppm	0.0002 ppm	0.0027 ppm
Concentration per Run 1	0.0290 ppm	0.0013 ppm	53.3668 ppm	0.0058 ppm	0.0009 ppm	0.0001 ppm	0.0024 ppm
Concentration per Run 2	0.0283 ppm	0.0012 ppm	54.9230 ppm	0.0057 ppm	0.0006 ppm	0.0005 ppm	0.0036 ppm
Concentration per Run 3	0.0289 ppm	0.0011 ppm	0.0000 ppm	0.0058 ppm	-0.0001 ppm	-0.0001 ppm	0.0023 ppm
Concentration RSD	1.3 %	5.7 %	2.0 %	1.2 %	103.3 %	231.6 %	27.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.0565 ppm	0.0017 ppm	0.0380 ppm	0.0014 ppm	-0.0024 ppm	-0.0001 ppm	0.0531 ppm
Concentration per Run 1	1.0552 ppm	0.0020 ppm	0.0380 ppm	0.0014 ppm	-0.0037 ppm	-0.0002 ppm	0.0532 ppm
Concentration per Run 2	1.0576 ppm	0.0012 ppm	0.0383 ppm	0.0014 ppm	-0.0004 ppm	-0.0003 ppm	0.0533 ppm
Concentration per Run 3	1.0566 ppm	0.0019 ppm	0.0378 ppm	0.0016 ppm	-0.0032 ppm	0.0003 ppm	0.0530 ppm
Concentration RSD	0.1 %	24.2 %	0.7 %	9.9 %	71.8 %	477.6 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.3523 %	90.5876 %	86.2189 %	97.3919 %	82.6737 %	88.3779 %	0.0022 ppm
Concentration per Run 1	101.6932 %	86.2133 %	86.6976 %	97.7466 %	82.9080 %	84.3075 %	0.0023 ppm
Concentration per Run 2	99.7431 %	93.2469 %	85.9327 %	97.2418 %	82.5292 %	90.8060 %	0.0023 ppm
Concentration per Run 3	99.6207 %	92.3025 %	86.0264 %	97.1873 %	82.5839 %	90.0201 %	0.0020 ppm
Concentration RSD	1.2 %	4.2 %	0.5 %	0.3 %	0.2 %	4.0 %	7.5 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2538013-01 WG2082870

Analysis started at: 6/26/2025 9:07:53 AM

Comments: <Comment>

Rack: 1

Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	0.2058 ppm	-0.0007 ppm	0.0256 ppm	0.0861 ppm	0.0000 ppm	102.9759 ppm
Concentration per Run 1	-0.0003 ppm	0.1984 ppm	0.0019 ppm	0.0257 ppm	0.0825 ppm	0.0000 ppm	98.7839 ppm
Concentration per Run 2	-0.0002 ppm	0.2131 ppm	-0.0014 ppm	0.0256 ppm	0.0886 ppm	0.0000 ppm	106.1232 ppm
Concentration per Run 3	-0.0003 ppm	0.2060 ppm	-0.0025 ppm	0.0254 ppm	0.0871 ppm	0.0000 ppm	104.0206 ppm
Concentration RSD	31.9 %	3.6 %	349.1 %	0.5 %	3.7 %	234.1 %	3.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	-0.0002 ppm	0.0004 ppm	0.0021 ppm	0.0038 ppm	3.4146 ppm	26.1027 ppm
Concentration per Run 1	0.0001 ppm	-0.0002 ppm	0.0009 ppm	0.0022 ppm	0.0036 ppm	3.2878 ppm	26.2477 ppm
Concentration per Run 2	0.0001 ppm	-0.0003 ppm	0.0004 ppm	0.0020 ppm	0.0036 ppm	3.4907 ppm	26.0691 ppm
Concentration per Run 3	0.0001 ppm	-0.0002 ppm	-0.0001 ppm	0.0021 ppm	0.0042 ppm	3.4655 ppm	25.9911 ppm
Concentration RSD	8.4 %	29.6 %	121.0 %	4.1 %	8.9 %	3.2 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0009 ppm	0.0004 ppm	4.7802 ppm	-0.0004 ppm	-0.0010 ppm	0.0007 ppm	0.0011 ppm
Concentration per Run 1	0.0008 ppm	0.0005 ppm	4.5979 ppm	-0.0005 ppm	-0.0006 ppm	0.0005 ppm	0.0016 ppm
Concentration per Run 2	0.0009 ppm	0.0005 ppm	4.8950 ppm	-0.0002 ppm	-0.0012 ppm	0.0006 ppm	-0.0001 ppm
Concentration per Run 3	0.0010 ppm	0.0002 ppm	4.8477 ppm	-0.0004 ppm	-0.0012 ppm	0.0011 ppm	0.0018 ppm
Concentration RSD	11.7 %	40.4 %	3.3 %	40.1 %	34.5 %	45.5 %	97.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	6.1876 ppm	0.0000 ppm	0.2460 ppm	0.0002 ppm	-0.0013 ppm	0.0002 ppm	0.0024 ppm
Concentration per Run 1	6.1759 ppm	-0.0002 ppm	0.2360 ppm	0.0000 ppm	-0.0026 ppm	0.0000 ppm	0.0024 ppm
Concentration per Run 2	6.1734 ppm	0.0004 ppm	0.2532 ppm	0.0004 ppm	-0.0010 ppm	0.0002 ppm	0.0023 ppm
Concentration per Run 3	6.2135 ppm	-0.0002 ppm	0.2489 ppm	0.0001 ppm	-0.0003 ppm	0.0004 ppm	0.0026 ppm
Concentration RSD	0.4 %	3,906.3 %	3.6 %	98.6 %	89.6 %	109.8 %	5.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.3867 %	92.4888 %	90.1852 %	97.5607 %	80.9461 %	90.5212 %	0.0003 ppm
Concentration per Run 1	105.5426 %	92.6829 %	90.3932 %	101.4942 %	81.2170 %	90.5786 %	0.0006 ppm
Concentration per Run 2	97.1428 %	92.3161 %	90.6231 %	94.8699 %	81.2194 %	90.3415 %	0.0001 ppm
Concentration per Run 3	98.4748 %	92.4673 %	89.5393 %	96.3181 %	80.4018 %	90.6436 %	0.0001 ppm
Concentration RSD	4.5 %	0.2 %	0.6 %	3.6 %	0.6 %	0.2 %	104.7 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: WG2082870-7 WG2082870

Analysis started at: 6/26/2025 9:14:28 AM

Comments: <Comment>

Rack: 1

Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0588 ppm	2.4620 ppm	0.1216 ppm	1.0404 ppm	2.3569 ppm	0.0568 ppm	114.7278 ppm
Concentration per Run 1	0.0590 ppm	2.4866 ppm	0.1193 ppm	1.0408 ppm	2.3353 ppm	0.0570 ppm	115.5863 ppm
Concentration per Run 2	0.0584 ppm	2.4703 ppm	0.1242 ppm	1.0348 ppm	2.3417 ppm	0.0566 ppm	114.1540 ppm
Concentration per Run 3	0.0591 ppm	2.4291 ppm	0.1214 ppm	1.0454 ppm	2.3936 ppm	0.0567 ppm	114.4430 ppm
Concentration RSD	0.6 %	1.2 %	2.0 %	0.5 %	1.4 %	0.4 %	0.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0509 ppm	0.5393 ppm	0.2207 ppm	0.2879 ppm	1.1473 ppm	14.7991 ppm	35.6796 ppm
Concentration per Run 1	0.0512 ppm	0.5408 ppm	0.2197 ppm	0.2906 ppm	1.1544 ppm	14.9092 ppm	35.7386 ppm
Concentration per Run 2	0.0506 ppm	0.5366 ppm	0.2218 ppm	0.2844 ppm	1.1465 ppm	15.0633 ppm	35.5156 ppm
Concentration per Run 3	0.0511 ppm	0.5405 ppm	0.2204 ppm	0.2886 ppm	1.1408 ppm	14.4248 ppm	35.7845 ppm
Concentration RSD	0.6 %	0.4 %	0.5 %	1.1 %	0.6 %	2.3 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5697 ppm	0.9614 ppm	15.9137 ppm	0.5403 ppm	0.5275 ppm	0.5186 ppm	0.1266 ppm
Concentration per Run 1	0.5733 ppm	0.9621 ppm	16.0410 ppm	0.5432 ppm	0.5292 ppm	0.5179 ppm	0.1261 ppm
Concentration per Run 2	0.5683 ppm	0.9574 ppm	16.1858 ppm	0.5390 ppm	0.5256 ppm	0.5189 ppm	0.1252 ppm
Concentration per Run 3	0.5676 ppm	0.9646 ppm	15.5144 ppm	0.5386 ppm	0.5277 ppm	0.5191 ppm	0.1284 ppm
Concentration RSD	0.5 %	0.4 %	2.2 %	0.5 %	0.3 %	0.1 %	1.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	7.5020 ppm	0.9595 ppm	1.3118 ppm	1.0235 ppm	0.1122 ppm	0.5598 ppm	0.5398 ppm
Concentration per Run 1	7.5215 ppm	0.9627 ppm	1.3196 ppm	1.0219 ppm	0.1121 ppm	0.5582 ppm	0.5401 ppm
Concentration per Run 2	7.4875 ppm	0.9567 ppm	1.3138 ppm	1.0242 ppm	0.1123 ppm	0.5622 ppm	0.5399 ppm
Concentration per Run 3	7.4970 ppm	0.9591 ppm	1.3019 ppm	1.0243 ppm	0.1123 ppm	0.5589 ppm	0.5393 ppm
Concentration RSD	0.2 %	0.3 %	0.7 %	0.1 %	0.1 %	0.4 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	97.4295 %	91.9162 %	89.9939 %	95.4603 %	78.9955 %	90.0141 %	0.0001 ppm
Concentration per Run 1	97.6813 %	92.1056 %	90.3511 %	94.9232 %	78.8952 %	90.0161 %	0.0002 ppm
Concentration per Run 2	97.6379 %	92.2734 %	89.7807 %	95.6520 %	79.0683 %	90.4185 %	0.0003 ppm
Concentration per Run 3	96.9693 %	91.3695 %	89.8500 %	95.8058 %	79.0230 %	89.6079 %	-0.0001 ppm
Concentration RSD	0.4 %	0.5 %	0.3 %	0.5 %	0.1 %	0.5 %	130.5 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: WG2082870-8 WG2082870

Analysis started at: 6/26/2025 9:20:54 AM

Comments: <Comment>

Rack: 1

Vial: 9

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0587 ppm	2.4363 ppm	0.1226 ppm	1.0511 ppm	2.3470 ppm	0.0557 ppm	114.6625 ppm
Concentration per Run 1	0.0590 ppm	2.4101 ppm	0.1228 ppm	1.0576 ppm	2.2838 ppm	0.0554 ppm	114.8211 ppm
Concentration per Run 2	0.0588 ppm	2.4633 ppm	0.1213 ppm	1.0498 ppm	2.4214 ppm	0.0563 ppm	115.4445 ppm
Concentration per Run 3	0.0584 ppm	2.4355 ppm	0.1238 ppm	1.0460 ppm	2.3357 ppm	0.0555 ppm	113.7219 ppm
Concentration RSD	0.5 %	1.1 %	1.0 %	0.6 %	3.0 %	0.9 %	0.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0505 ppm	0.5372 ppm	0.2205 ppm	0.2883 ppm	1.1256 ppm	15.1152 ppm	36.1915 ppm
Concentration per Run 1	0.0509 ppm	0.5414 ppm	0.2206 ppm	0.2907 ppm	1.1250 ppm	14.8040 ppm	36.2576 ppm
Concentration per Run 2	0.0504 ppm	0.5364 ppm	0.2222 ppm	0.2862 ppm	1.1339 ppm	15.3232 ppm	36.2530 ppm
Concentration per Run 3	0.0501 ppm	0.5338 ppm	0.2188 ppm	0.2880 ppm	1.1178 ppm	15.2183 ppm	36.0639 ppm
Concentration RSD	0.8 %	0.7 %	0.8 %	0.8 %	0.7 %	1.8 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5575 ppm	0.9701 ppm	16.1942 ppm	0.5365 ppm	0.5293 ppm	0.5190 ppm	0.1282 ppm
Concentration per Run 1	0.5559 ppm	0.9744 ppm	15.8280 ppm	0.5371 ppm	0.5303 ppm	0.5184 ppm	0.1272 ppm
Concentration per Run 2	0.5612 ppm	0.9690 ppm	16.4394 ppm	0.5346 ppm	0.5292 ppm	0.5189 ppm	0.1307 ppm
Concentration per Run 3	0.5554 ppm	0.9670 ppm	16.3153 ppm	0.5378 ppm	0.5286 ppm	0.5198 ppm	0.1268 ppm
Concentration RSD	0.6 %	0.4 %	2.0 %	0.3 %	0.2 %	0.1 %	1.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	7.6210 ppm	0.9641 ppm	1.3187 ppm	1.0315 ppm	0.1154 ppm	0.5570 ppm	0.5359 ppm
Concentration per Run 1	7.6282 ppm	0.9633 ppm	1.3066 ppm	1.0338 ppm	0.1165 ppm	0.5581 ppm	0.5347 ppm
Concentration per Run 2	7.6003 ppm	0.9626 ppm	1.3270 ppm	1.0346 ppm	0.1142 ppm	0.5595 ppm	0.5373 ppm
Concentration per Run 3	7.6346 ppm	0.9664 ppm	1.3225 ppm	1.0261 ppm	0.1153 ppm	0.5535 ppm	0.5358 ppm
Concentration RSD	0.2 %	0.2 %	0.8 %	0.5 %	1.0 %	0.6 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	98.4105 %	91.8048 %	89.4080 %	96.3228 %	78.6621 %	89.4442 %	0.0002 ppm
Concentration per Run 1	99.3309 %	91.3635 %	89.6133 %	96.7156 %	78.6029 %	88.9234 %	0.0002 ppm
Concentration per Run 2	97.6962 %	92.2118 %	89.7214 %	95.7885 %	79.0676 %	89.7722 %	-0.0001 ppm
Concentration per Run 3	98.2042 %	91.8392 %	88.8892 %	96.4642 %	78.3158 %	89.6369 %	0.0004 ppm
Concentration RSD	0.9 %	0.5 %	0.5 %	0.5 %	0.5 %	0.5 %	126.3 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: WG2082870-9 WG2082870

Analysis started at: 6/26/2025 9:27:19 AM

Comments: <Comment>

Rack: 1

Vial: 10

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0533 ppm	2.2683 ppm	0.1274 ppm	1.0834 ppm	2.1927 ppm	0.0524 ppm	112.0351 ppm
Concentration per Run 1	0.0533 ppm	2.2588 ppm	0.1253 ppm	1.0864 ppm	2.1685 ppm	0.0521 ppm	111.7891 ppm
Concentration per Run 2	0.0532 ppm	2.2798 ppm	0.1283 ppm	1.0812 ppm	2.1957 ppm	0.0524 ppm	111.3777 ppm
Concentration per Run 3	0.0533 ppm	2.2665 ppm	0.1286 ppm	1.0825 ppm	2.2138 ppm	0.0527 ppm	112.9385 ppm
Concentration RSD	0.1 %	0.5 %	1.4 %	0.3 %	1.0 %	0.6 %	0.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0521 ppm	0.5021 ppm	0.2079 ppm	0.2694 ppm	1.0583 ppm	15.0718 ppm	35.5064 ppm
Concentration per Run 1	0.0525 ppm	0.5055 ppm	0.2066 ppm	0.2707 ppm	1.0522 ppm	15.0698 ppm	35.4477 ppm
Concentration per Run 2	0.0519 ppm	0.5007 ppm	0.2076 ppm	0.2695 ppm	1.0549 ppm	15.2377 ppm	35.5352 ppm
Concentration per Run 3	0.0518 ppm	0.5003 ppm	0.2094 ppm	0.2679 ppm	1.0679 ppm	14.9079 ppm	35.5364 ppm
Concentration RSD	0.7 %	0.6 %	0.7 %	0.5 %	0.8 %	1.1 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5244 ppm	1.0115 ppm	16.1683 ppm	0.5064 ppm	0.5509 ppm	0.5205 ppm	0.1303 ppm
Concentration per Run 1	0.5241 ppm	1.0151 ppm	16.1311 ppm	0.5036 ppm	0.5498 ppm	0.5159 ppm	0.1297 ppm
Concentration per Run 2	0.5220 ppm	1.0088 ppm	16.3660 ppm	0.5107 ppm	0.5551 ppm	0.5235 ppm	0.1318 ppm
Concentration per Run 3	0.5272 ppm	1.0105 ppm	16.0078 ppm	0.5048 ppm	0.5480 ppm	0.5221 ppm	0.1293 ppm
Concentration RSD	0.5 %	0.3 %	1.1 %	0.7 %	0.7 %	0.8 %	1.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	7.4283 ppm	1.0113 [SIC 20]	1.3326 ppm	1.0643 ppm	0.1187 ppm	0.5220 ppm	0.5051 ppm
Concentration per Run 1	7.3745 ppm	1.0066 ppm	1.3233 ppm	1.0610 ppm	0.1178 ppm	0.5197 ppm	0.5008 ppm
Concentration per Run 2	7.4976 ppm	1.0183 ppm	1.3268 ppm	1.0636 ppm	0.1190 ppm	0.5218 ppm	0.5107 ppm
Concentration per Run 3	7.4128 ppm	1.0091 ppm	1.3477 ppm	1.0682 ppm	0.1192 ppm	0.5246 ppm	0.5039 ppm
Concentration RSD	0.8 %	0.6 %	1.0 %	0.3 %	0.6 %	0.5 %	1.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	98.0976 %	92.0150 %	89.1554 %	96.9862 %	78.6701 %	90.2036 %	-0.0002 ppm
Concentration per Run 1	98.9488 %	91.6798 %	90.2863 %	97.6288 %	79.2374 %	89.8096 %	-0.0004 ppm
Concentration per Run 2	97.9991 %	92.3174 %	88.0094 %	97.0084 %	78.0230 %	90.4140 %	0.0000 ppm
Concentration per Run 3	97.3450 %	92.0479 %	89.1705 %	96.3215 %	78.7499 %	90.3872 %	-0.0003 ppm
Concentration RSD	0.8 %	0.3 %	1.3 %	0.7 %	0.8 %	0.4 %	92.7 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: WG2082870-10D5 WG2082870

Analysis started at: 6/26/2025 9:33:54 AM

Comments: <Comment>

Rack: 1

Vial: 11

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0220 ppm	-0.0011 ppm	0.0070 ppm	0.0157 ppm	0.0000 ppm	18.7596 ppm
Concentration per Run 1	-0.0002 ppm	0.0217 ppm	-0.0016 ppm	0.0070 ppm	0.0153 ppm	0.0000 ppm	18.5507 ppm
Concentration per Run 2	-0.0001 ppm	0.0215 ppm	-0.0010 ppm	0.0070 ppm	0.0160 ppm	0.0000 ppm	18.8331 ppm
Concentration per Run 3	-0.0001 ppm	0.0226 ppm	-0.0009 ppm	0.0070 ppm	0.0159 ppm	0.0000 ppm	18.8950 ppm
Concentration RSD	63.7 %	2.7 %	31.9 %	0.6 %	2.2 %	169.8 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0006 ppm	0.0019 ppm	0.5874 ppm	4.9132 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0008 ppm	0.0019 ppm	0.5599 ppm	4.9405 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0003 ppm	0.0006 ppm	0.0016 ppm	0.6041 ppm	4.8914 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	0.0003 ppm	0.0005 ppm	0.0022 ppm	0.5983 ppm	4.9078 ppm
Concentration RSD	135.8 %	72.0 %	5,156.1 %	19.2 %	14.6 %	4.1 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	0.0034 ppm	0.8251 ppm	0.0001 ppm	-0.0001 ppm	0.0039 ppm	-0.0008 ppm
Concentration per Run 1	0.0003 ppm	0.0039 ppm	0.7937 ppm	0.0000 ppm	0.0001 ppm	0.0049 ppm	-0.0006 ppm
Concentration per Run 2	0.0002 ppm	0.0035 ppm	0.8414 ppm	-0.0001 ppm	0.0002 ppm	0.0036 ppm	-0.0016 ppm
Concentration per Run 3	0.0001 ppm	0.0029 ppm	0.8402 ppm	0.0003 ppm	-0.0005 ppm	0.0031 ppm	-0.0002 ppm
Concentration RSD	61.5 %	14.9 %	3.3 %	356.8 %	823.6 %	24.6 %	88.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.0404 ppm	0.0027 ppm	0.0449 ppm	0.0003 ppm	0.0001 ppm	0.0002 ppm	0.0006 ppm
Concentration per Run 1	1.0367 ppm	0.0029 ppm	0.0438 ppm	0.0006 ppm	-0.0007 ppm	0.0003 ppm	0.0005 ppm
Concentration per Run 2	1.0423 ppm	0.0030 ppm	0.0454 ppm	0.0003 ppm	0.0005 ppm	0.0001 ppm	0.0007 ppm
Concentration per Run 3	1.0422 ppm	0.0023 ppm	0.0455 ppm	0.0001 ppm	0.0005 ppm	0.0001 ppm	0.0005 ppm
Concentration RSD	0.3 %	15.0 %	2.1 %	71.4 %	708.9 %	37.7 %	21.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.5008 %	98.3212 %	96.7948 %	100.6673 %	93.9578 %	97.1268 %	-0.0001 ppm
Concentration per Run 1	103.7230 %	98.0513 %	97.1848 %	102.4933 %	94.4018 %	96.7301 %	0.0001 ppm
Concentration per Run 2	100.3165 %	98.1154 %	96.7760 %	99.6858 %	93.7006 %	97.0401 %	-0.0001 ppm
Concentration per Run 3	100.4628 %	98.7970 %	96.4237 %	99.8227 %	93.7709 %	97.6104 %	-0.0002 ppm
Concentration RSD	1.9 %	0.4 %	0.4 %	1.6 %	0.4 %	0.5 %	290.5 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: CCV
Analysis started at: 6/26/2025 9:40:30 AM
Comments: <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5091 ppm	0.4981 ppm	0.4677 ppm	0.5035 ppm	0.4963 ppm	0.5013 ppm	0.5125 ppm
Concentration per Run 1	0.5098 ppm	0.4907 ppm	0.4689 ppm	0.5037 ppm	0.4901 ppm	0.4983 ppm	0.5125 ppm
Concentration per Run 2	0.5091 ppm	0.4987 ppm	0.4656 ppm	0.5040 ppm	0.4982 ppm	0.5024 ppm	0.5118 ppm
Concentration per Run 3	0.5086 ppm	0.5050 ppm	0.4687 ppm	0.5028 ppm	0.5005 ppm	0.5031 ppm	0.5132 ppm
Recovery Percentage 1	101.826 %	99.622 %	93.539 %	100.696 %	99.251 %	100.255 %	102.499 %
Concentration RSD	0.1 %	1.4 %	0.4 %	0.1 %	1.1 %	0.5 %	0.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4856 ppm	0.5143 ppm	0.5185 ppm	0.4942 ppm	0.5051 ppm	5.2177 ppm	0.5176 ppm
Concentration per Run 1	0.4838 ppm	0.5131 ppm	0.5172 ppm	0.4937 ppm	0.5036 ppm	5.0646 ppm	0.5159 ppm
Concentration per Run 2	0.4921 ppm	0.5187 ppm	0.5173 ppm	0.4966 ppm	0.5031 ppm	5.2739 ppm	0.5198 ppm
Concentration per Run 3	0.4808 ppm	0.5112 ppm	0.5210 ppm	0.4922 ppm	0.5087 ppm	5.3145 ppm	0.5171 ppm
Recovery Percentage 1	97.116 %	102.867 %	103.698 %	98.832 %	101.027 %	104.354 %	103.518 %
Concentration RSD	1.2 %	0.8 %	0.4 %	0.5 %	0.6 %	2.6 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5117 ppm	0.4949 ppm	9.8925 ppm	0.4815 ppm	0.4894 ppm	0.4835 ppm	0.4994 ppm
Concentration per Run 1	0.5100 ppm	0.4934 ppm	9.5914 ppm	0.4806 ppm	0.4897 ppm	0.4837 ppm	0.5031 ppm
Concentration per Run 2	0.5117 ppm	0.4983 ppm	9.9820 ppm	0.4843 ppm	0.4902 ppm	0.4832 ppm	0.4942 ppm
Concentration per Run 3	0.5135 ppm	0.4929 ppm	10.1040 ppm	0.4794 ppm	0.4884 ppm	0.4836 ppm	0.5009 ppm
Recovery Percentage 1	102.348 %	98.974 %	98.925 %	96.291 %	97.879 %	96.695 %	99.880 %
Concentration RSD	0.3 %	0.6 %	2.7 %	0.5 %	0.2 %	0.1 %	0.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.2393 ppm	0.4698 ppm	0.5190 ppm	0.5132 ppm	0.4890 ppm	0.5090 ppm	0.5080 ppm
Concentration per Run 1	5.2338 ppm	0.4696 ppm	0.5130 ppm	0.5119 ppm	0.4886 ppm	0.5079 ppm	0.5085 ppm
Concentration per Run 2	5.2401 ppm	0.4714 ppm	0.5206 ppm	0.5139 ppm	0.4886 ppm	0.5098 ppm	0.5116 ppm
Concentration per Run 3	5.2441 ppm	0.4683 ppm	0.5232 ppm	0.5136 ppm	0.4900 ppm	0.5093 ppm	0.5038 ppm
Recovery Percentage 1	99.797 %	93.959 %	103.791 %	102.631 %	97.807 %	101.803 %	101.594 %
Concentration RSD	0.1 %	0.3 %	1.0 %	0.2 %	0.2 %	0.2 %	0.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.2258 %	99.1139 %	97.1446 %	101.0405 %	91.1181 %	97.9945 %	0.5185 ppm
Concentration per Run 1	100.9727 %	99.4179 %	96.9701 %	101.6363 %	91.3830 %	98.2107 %	0.5020 ppm
Concentration per Run 2	100.1347 %	98.9561 %	97.7764 %	100.8782 %	91.0792 %	97.7997 %	0.5224 ppm
Concentration per Run 3	99.5701 %	98.9676 %	96.6873 %	100.6069 %	90.8920 %	97.9730 %	0.5310 ppm
Recovery Percentage 1							103.696 %
Concentration RSD	0.7 %	0.3 %	0.6 %	0.5 %	0.3 %	0.2 %	2.9 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: CCB
Analysis started at: 6/26/2025 9:46:50 AM
Comments: <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	-0.0007 ppm	-0.0002 ppm	0.0019 ppm	0.0000 ppm	0.0000 ppm	-0.0023 ppm
Concentration per Run 1	0.0000 ppm	-0.0005 ppm	0.0012 ppm	0.0018 ppm	0.0000 ppm	0.0000 ppm	-0.0046 ppm
Concentration per Run 2	-0.0001 ppm	-0.0030 ppm	-0.0010 ppm	0.0019 ppm	0.0000 ppm	0.0000 ppm	-0.0012 ppm
Concentration per Run 3	-0.0001 ppm	0.0013 ppm	-0.0007 ppm	0.0020 ppm	0.0000 ppm	0.0000 ppm	-0.0011 ppm
Recovery Percentage 1	-1.275 %	-0.748 %	-3.455 %	6.245 %	0.108 %	0.368 %	-2.297 %
Concentration RSD	79.8 %	288.7 %	681.1 %	5.7 %	92.1 %	105.8 %	85.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0003 ppm	-0.0002 ppm	0.0092 ppm	-0.0001 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0000 ppm	0.0142 ppm	0.0008 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0096 ppm	-0.0004 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0003 ppm	-0.0004 ppm	0.0039 ppm	-0.0006 ppm
Recovery Percentage 1	-0.081 %	-0.002 %	-0.788 %	2.947 %	-0.321 %	0.369 %	-0.067 %
Concentration RSD	646.3 %	2,524.8 %	74.1 %	48.6 %	112.4 %	56.2 %	1,106.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0011 ppm	0.0046 ppm	0.0001 ppm	0.0000 ppm	0.0008 ppm	0.0006 ppm
Concentration per Run 1	0.0000 ppm	0.0012 ppm	0.0024 ppm	0.0001 ppm	-0.0003 ppm	0.0010 ppm	0.0001 ppm
Concentration per Run 2	-0.0002 ppm	0.0011 ppm	0.0062 ppm	0.0001 ppm	0.0000 ppm	0.0008 ppm	0.0004 ppm
Concentration per Run 3	0.0001 ppm	0.0011 ppm	0.0051 ppm	0.0000 ppm	0.0003 ppm	0.0007 ppm	0.0014 ppm
Recovery Percentage 1	-0.146 %	2.297 %	0.229 %	0.249 %	0.049 %	1.657 %	6.447 %
Concentration RSD	960.7 %	5.6 %	43.0 %	81.5 %	6,586.7 %	15.6 %	101.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	-0.0001 ppm	0.0006 ppm	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0001 ppm	-0.0001 ppm
Concentration per Run 1	0.0000 ppm	0.0003 ppm	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 2	-0.0003 ppm	0.0011 ppm	0.0000 ppm	0.0001 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 3	-0.0001 ppm	0.0005 ppm	0.0000 ppm	0.0001 ppm	0.0005 ppm	0.0001 ppm	-0.0001 ppm
Recovery Percentage 1	-0.028 %	1.277 %	-0.059 %	0.892 %	1.221 %	0.822 %	-1.034 %
Concentration RSD	125.5 %	72.0 %	344.7 %	13.0 %	163.6 %	78.4 %	117.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.4352 %	101.1926 %	98.5303 %	99.3809 %	98.1565 %	98.4089 %	0.0001 ppm
Concentration per Run 1	102.4923 %	100.9179 %	98.7573 %	99.7837 %	97.9662 %	98.3057 %	-0.0002 ppm
Concentration per Run 2	100.7341 %	101.4878 %	98.2745 %	99.1809 %	98.3467 %	98.6425 %	0.0001 ppm
Concentration per Run 3	101.0791 %	101.1720 %	98.5590 %	99.1779 %	98.1565 %	98.2786 %	0.0004 ppm
Recovery Percentage 1							1.099 %
Concentration RSD	0.9 %	0.3 %	0.2 %	0.4 %	0.2 %	0.2 %	284.1 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2538013-02 WG2082870

Analysis started at: 6/26/2025 10:10:55 AM

Comments: <Comment>

Rack: 1

Vial: 12

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0068 ppm	-0.0001 ppm	0.0206 ppm	0.0286 ppm	0.0000 ppm	12.1229 ppm
Concentration per Run 1	-0.0001 ppm	0.0057 ppm	-0.0004 ppm	0.0212 ppm	0.0286 ppm	0.0000 ppm	12.1939 ppm
Concentration per Run 2	-0.0001 ppm	0.0082 ppm	-0.0005 ppm	0.0209 ppm	0.0286 ppm	0.0000 ppm	12.1161 ppm
Concentration per Run 3	0.0001 ppm	0.0064 ppm	0.0006 ppm	0.0196 ppm	0.0286 ppm	0.0000 ppm	12.0588 ppm
Concentration RSD	407.8 %	19.0 %	487.1 %	4.2 %	0.1 %	90.1 %	0.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	-0.0004 ppm	0.0014 ppm	0.0009 ppm	0.0043 ppm	1.2680 ppm	5.3546 ppm
Concentration per Run 1	0.0001 ppm	-0.0003 ppm	0.0013 ppm	0.0011 ppm	0.0049 ppm	1.2563 ppm	5.5083 ppm
Concentration per Run 2	0.0001 ppm	-0.0004 ppm	0.0014 ppm	0.0010 ppm	0.0042 ppm	1.2937 ppm	5.4823 ppm
Concentration per Run 3	0.0001 ppm	-0.0005 ppm	0.0014 ppm	0.0006 ppm	0.0037 ppm	1.2538 ppm	5.0733 ppm
Concentration RSD	21.3 %	19.1 %	3.7 %	29.9 %	13.8 %	1.8 %	4.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0004 ppm	0.0004 ppm	16.5023 ppm	0.0003 ppm	-0.0014 ppm	0.0004 ppm	0.0002 ppm
Concentration per Run 1	0.0004 ppm	0.0004 ppm	16.3108 ppm	0.0003 ppm	-0.0016 ppm	-0.0003 ppm	-0.0007 ppm
Concentration per Run 2	0.0005 ppm	0.0004 ppm	16.7090 ppm	0.0003 ppm	-0.0012 ppm	0.0002 ppm	0.0012 ppm
Concentration per Run 3	0.0003 ppm	0.0002 ppm	16.4871 ppm	0.0003 ppm	-0.0013 ppm	0.0012 ppm	0.0002 ppm
Concentration RSD	13.4 %	28.9 %	1.2 %	10.0 %	14.7 %	220.2 %	391.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	7.8901 ppm	0.0001 ppm	0.0630 ppm	0.0000 ppm	-0.0010 ppm	0.0002 ppm	0.0029 ppm
Concentration per Run 1	7.9165 ppm	0.0001 ppm	0.0629 ppm	-0.0001 ppm	-0.0012 ppm	0.0001 ppm	0.0028 ppm
Concentration per Run 2	7.8939 ppm	-0.0003 ppm	0.0629 ppm	-0.0001 ppm	-0.0002 ppm	0.0001 ppm	0.0029 ppm
Concentration per Run 3	7.8600 ppm	0.0006 ppm	0.0631 ppm	0.0002 ppm	-0.0015 ppm	0.0002 ppm	0.0029 ppm
Concentration RSD	0.4 %	311.2 %	0.1 %	1,960.5 %	67.8 %	54.1 %	2.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.5479 %	100.5140 %	95.4319 %	98.6436 %	90.2802 %	98.1965 %	0.0015 ppm
Concentration per Run 1	102.5060 %	98.3988 %	95.4071 %	98.5466 %	90.2238 %	95.9248 %	0.0016 ppm
Concentration per Run 2	101.1131 %	98.0956 %	94.8394 %	98.6389 %	90.1271 %	95.9298 %	0.0014 ppm
Concentration per Run 3	101.0245 %	105.0476 %	96.0493 %	98.7453 %	90.4897 %	102.7349 %	0.0014 ppm
Concentration RSD	0.8 %	3.9 %	0.6 %	0.1 %	0.2 %	4.0 %	9.1 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2538013-03 WG2082870

Analysis started at: 6/26/2025 10:17:31 AM

Comments: <Comment>

Rack: 1

Vial: 13

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0064 ppm	0.0005 ppm	0.0205 ppm	0.0278 ppm	0.0000 ppm	11.5948 ppm
Concentration per Run 1	-0.0001 ppm	0.0058 ppm	0.0011 ppm	0.0202 ppm	0.0278 ppm	0.0000 ppm	11.6180 ppm
Concentration per Run 2	0.0001 ppm	0.0067 ppm	0.0008 ppm	0.0209 ppm	0.0280 ppm	0.0000 ppm	11.5986 ppm
Concentration per Run 3	-0.0001 ppm	0.0066 ppm	-0.0003 ppm	0.0205 ppm	0.0277 ppm	0.0000 ppm	11.5678 ppm
Concentration RSD	212.8 %	8.0 %	136.4 %	1.7 %	0.5 %	102.5 %	0.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	-0.0003 ppm	0.0014 ppm	0.0011 ppm	0.0035 ppm	1.2618 ppm	5.2778 ppm
Concentration per Run 1	0.0001 ppm	-0.0003 ppm	0.0013 ppm	0.0011 ppm	0.0034 ppm	1.2808 ppm	5.3056 ppm
Concentration per Run 2	0.0001 ppm	-0.0005 ppm	0.0010 ppm	0.0009 ppm	0.0035 ppm	1.2794 ppm	5.2537 ppm
Concentration per Run 3	0.0001 ppm	-0.0003 ppm	0.0018 ppm	0.0012 ppm	0.0037 ppm	1.2251 ppm	5.2742 ppm
Concentration RSD	27.7 %	35.4 %	30.1 %	14.5 %	5.0 %	2.5 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0004 ppm	0.0003 ppm	16.3958 ppm	0.0002 ppm	-0.0013 ppm	0.0000 ppm	0.0009 ppm
Concentration per Run 1	0.0004 ppm	0.0003 ppm	16.5461 ppm	0.0002 ppm	-0.0015 ppm	0.0004 ppm	-0.0007 ppm
Concentration per Run 2	0.0005 ppm	0.0003 ppm	16.6123 ppm	0.0000 ppm	-0.0009 ppm	-0.0002 ppm	0.0022 ppm
Concentration per Run 3	0.0004 ppm	0.0004 ppm	16.0289 ppm	0.0004 ppm	-0.0013 ppm	-0.0003 ppm	0.0014 ppm
Concentration RSD	12.1 %	18.9 %	1.9 %	96.3 %	23.5 %	843.5 %	155.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	7.6232 ppm	0.0000 ppm	0.0615 ppm	0.0001 ppm	-0.0009 ppm	0.0002 ppm	0.0023 ppm
Concentration per Run 1	7.6198 ppm	0.0005 ppm	0.0615 ppm	0.0000 ppm	-0.0010 ppm	0.0004 ppm	0.0023 ppm
Concentration per Run 2	7.6237 ppm	-0.0002 ppm	0.0616 ppm	0.0000 ppm	-0.0015 ppm	0.0001 ppm	0.0023 ppm
Concentration per Run 3	7.6262 ppm	-0.0002 ppm	0.0613 ppm	0.0002 ppm	-0.0002 ppm	0.0002 ppm	0.0023 ppm
Concentration RSD	0.0 %	1,327.0 %	0.3 %	181.9 %	76.0 %	66.0 %	1.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.9114 %	97.7318 %	94.8193 %	98.6664 %	90.2592 %	95.7424 %	0.0016 ppm
Concentration per Run 1	103.0400 %	97.8582 %	94.9729 %	98.7270 %	90.5435 %	95.6335 %	0.0015 ppm
Concentration per Run 2	101.3540 %	97.8741 %	94.6269 %	98.3853 %	89.8921 %	95.9160 %	0.0017 ppm
Concentration per Run 3	101.3402 %	97.4630 %	94.8581 %	98.8869 %	90.3419 %	95.6776 %	0.0017 ppm
Concentration RSD	1.0 %	0.2 %	0.2 %	0.3 %	0.4 %	0.2 %	5.6 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2538013-04 WG2082870

Analysis started at: 6/26/2025 10:24:04 AM

Comments: <Comment>

Rack: 1

Vial: 14

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0073 ppm	-0.0003 ppm	0.0237 ppm	0.0181 ppm	0.0000 ppm	24.4533 ppm
Concentration per Run 1	-0.0002 ppm	0.0078 ppm	0.0004 ppm	0.0235 ppm	0.0179 ppm	0.0000 ppm	24.9220 ppm
Concentration per Run 2	-0.0002 ppm	0.0057 ppm	-0.0012 ppm	0.0237 ppm	0.0182 ppm	0.0000 ppm	24.2667 ppm
Concentration per Run 3	-0.0001 ppm	0.0085 ppm	0.0000 ppm	0.0239 ppm	0.0180 ppm	0.0000 ppm	24.1711 ppm
Concentration RSD	59.3 %	19.6 %	321.3 %	0.8 %	1.0 %	118.6 %	1.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	-0.0001 ppm	0.0004 ppm	0.0012 ppm	0.0032 ppm	1.6502 ppm	6.9781 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	0.0005 ppm	0.0013 ppm	0.0032 ppm	1.5939 ppm	7.0259 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0003 ppm	0.0010 ppm	0.0037 ppm	1.6889 ppm	6.9674 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0004 ppm	0.0013 ppm	0.0027 ppm	1.6678 ppm	6.9411 ppm
Concentration RSD	58.3 %	50.7 %	22.5 %	13.9 %	15.3 %	3.0 %	0.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0004 ppm	0.0005 ppm	15.0190 ppm	-0.0001 ppm	-0.0003 ppm	0.0004 ppm	0.0013 ppm
Concentration per Run 1	0.0004 ppm	0.0006 ppm	14.4588 ppm	-0.0001 ppm	-0.0004 ppm	-0.0001 ppm	0.0014 ppm
Concentration per Run 2	0.0004 ppm	0.0006 ppm	15.3760 ppm	-0.0001 ppm	-0.0007 ppm	0.0008 ppm	0.0013 ppm
Concentration per Run 3	0.0004 ppm	0.0004 ppm	15.2223 ppm	-0.0001 ppm	0.0002 ppm	0.0005 ppm	0.0012 ppm
Concentration RSD	3.9 %	20.2 %	3.3 %	7.5 %	168.6 %	121.0 %	9.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.6695 ppm	0.0001 ppm	0.0916 ppm	0.0001 ppm	-0.0009 ppm	0.0003 ppm	0.0012 ppm
Concentration per Run 1	2.6719 ppm	0.0004 ppm	0.0910 ppm	0.0002 ppm	-0.0019 ppm	0.0004 ppm	0.0012 ppm
Concentration per Run 2	2.6509 ppm	-0.0002 ppm	0.0922 ppm	0.0000 ppm	0.0002 ppm	0.0004 ppm	0.0012 ppm
Concentration per Run 3	2.6858 ppm	0.0000 ppm	0.0916 ppm	0.0001 ppm	-0.0011 ppm	0.0002 ppm	0.0012 ppm
Concentration RSD	0.7 %	430.5 %	0.6 %	62.3 %	109.2 %	31.4 %	2.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.9726 %	95.8048 %	92.7345 %	97.9264 %	87.9004 %	93.9982 %	0.0002 ppm
Concentration per Run 1	101.5070 %	95.8460 %	92.3678 %	97.4949 %	87.5594 %	93.9894 %	0.0000 ppm
Concentration per Run 2	100.6374 %	95.8049 %	93.4792 %	97.8814 %	88.3637 %	94.0551 %	0.0000 ppm
Concentration per Run 3	100.7735 %	95.7635 %	92.3567 %	98.4030 %	87.7781 %	93.9501 %	0.0005 ppm
Concentration RSD	0.5 %	0.0 %	0.7 %	0.5 %	0.5 %	0.1 %	182.3 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2538013-05 WG2082870
 Analysis started at: 6/26/2025 10:30:38 AM
 Comments: <Comment>
 Rack: 1
 Vial: 15

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0069 ppm	-0.0011 ppm	0.0953 ppm	0.0152 ppm	0.0000 ppm	18.9389 ppm
Concentration per Run 1	-0.0001 ppm	0.0057 ppm	-0.0019 ppm	0.0959 ppm	0.0152 ppm	0.0000 ppm	18.8476 ppm
Concentration per Run 2	-0.0002 ppm	0.0044 ppm	-0.0001 ppm	0.0955 ppm	0.0152 ppm	0.0000 ppm	19.0894 ppm
Concentration per Run 3	-0.0003 ppm	0.0104 ppm	-0.0012 ppm	0.0945 ppm	0.0152 ppm	0.0000 ppm	18.8796 ppm
Concentration RSD	54.0 %	46.0 %	83.9 %	0.7 %	0.2 %	155.1 %	0.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0002 ppm	-0.0004 ppm	0.0020 ppm	0.0013 ppm	0.0030 ppm	1.5803 ppm	9.1996 ppm
Concentration per Run 1	0.0002 ppm	-0.0003 ppm	0.0019 ppm	0.0014 ppm	0.0035 ppm	1.5935 ppm	9.2273 ppm
Concentration per Run 2	0.0003 ppm	-0.0005 ppm	0.0020 ppm	0.0013 ppm	0.0029 ppm	1.5772 ppm	9.2329 ppm
Concentration per Run 3	0.0002 ppm	-0.0004 ppm	0.0021 ppm	0.0012 ppm	0.0025 ppm	1.5703 ppm	9.1387 ppm
Concentration RSD	20.9 %	26.9 %	5.3 %	7.1 %	16.5 %	0.8 %	0.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0020 ppm	0.0002 ppm	14.4425 ppm	0.0000 ppm	-0.0014 ppm	0.0001 ppm	-0.0012 ppm
Concentration per Run 1	0.0019 ppm	0.0002 ppm	14.5305 ppm	0.0002 ppm	-0.0010 ppm	-0.0002 ppm	-0.0008 ppm
Concentration per Run 2	0.0021 ppm	0.0001 ppm	14.4025 ppm	0.0000 ppm	-0.0016 ppm	-0.0002 ppm	-0.0019 ppm
Concentration per Run 3	0.0020 ppm	0.0003 ppm	14.3946 ppm	-0.0002 ppm	-0.0017 ppm	0.0007 ppm	-0.0008 ppm
Concentration RSD	5.1 %	33.9 %	0.5 %	1,119.4 %	26.0 %	358.4 %	54.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	9.7773 ppm	0.0002 ppm	0.0974 ppm	0.0002 ppm	-0.0007 ppm	0.0013 ppm	0.0038 ppm
Concentration per Run 1	9.7636 ppm	0.0002 ppm	0.0976 ppm	0.0001 ppm	-0.0021 ppm	0.0014 ppm	0.0037 ppm
Concentration per Run 2	9.7786 ppm	0.0001 ppm	0.0972 ppm	0.0003 ppm	0.0004 ppm	0.0012 ppm	0.0040 ppm
Concentration per Run 3	9.7897 ppm	0.0002 ppm	0.0973 ppm	0.0001 ppm	-0.0003 ppm	0.0012 ppm	0.0037 ppm
Concentration RSD	0.1 %	18.4 %	0.2 %	59.1 %	183.1 %	6.1 %	5.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.2468 %	96.0451 %	92.6245 %	97.8774 %	88.0487 %	93.7375 %	0.0025 ppm
Concentration per Run 1	103.0039 %	95.9714 %	92.8724 %	98.2540 %	88.2727 %	93.5489 %	0.0024 ppm
Concentration per Run 2	100.3667 %	95.6364 %	92.6330 %	97.5291 %	87.9606 %	93.3176 %	0.0028 ppm
Concentration per Run 3	100.3699 %	96.5274 %	92.3682 %	97.8491 %	87.9127 %	94.3461 %	0.0023 ppm
Concentration RSD	1.5 %	0.5 %	0.3 %	0.4 %	0.2 %	0.6 %	9.9 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2538013-06 WG2082870

Analysis started at: 6/26/2025 10:37:11 AM

Comments: <Comment>

Rack: 1

Vial: 16

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	0.0068 ppm	-0.0006 ppm	0.1015 ppm	0.0717 ppm	0.0000 ppm	76.6811 ppm
Concentration per Run 1	-0.0002 ppm	0.0080 ppm	-0.0003 ppm	0.1011 ppm	0.0715 ppm	0.0000 ppm	76.3713 ppm
Concentration per Run 2	-0.0002 ppm	0.0035 ppm	-0.0006 ppm	0.1018 ppm	0.0719 ppm	0.0000 ppm	76.6905 ppm
Concentration per Run 3	-0.0005 ppm	0.0090 ppm	-0.0010 ppm	0.1016 ppm	0.0716 ppm	0.0000 ppm	76.9816 ppm
Concentration RSD	57.7 %	43.0 %	49.1 %	0.4 %	0.3 %	795.6 %	0.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0002 ppm	-0.0002 ppm	0.0002 ppm	0.0039 ppm	0.0035 ppm	8.1980 ppm	12.0298 ppm
Concentration per Run 1	0.0002 ppm	-0.0003 ppm	0.0001 ppm	0.0037 ppm	0.0034 ppm	8.1255 ppm	12.0201 ppm
Concentration per Run 2	0.0001 ppm	-0.0002 ppm	0.0000 ppm	0.0038 ppm	0.0037 ppm	8.2364 ppm	12.0078 ppm
Concentration per Run 3	0.0002 ppm	-0.0001 ppm	0.0005 ppm	0.0041 ppm	0.0033 ppm	8.2323 ppm	12.0616 ppm
Concentration RSD	32.6 %	51.5 %	129.1 %	5.5 %	6.0 %	0.8 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0815 ppm	0.0018 ppm	13.1458 ppm	0.0000 ppm	-0.0010 ppm	0.0002 ppm	0.0004 ppm
Concentration per Run 1	0.0815 ppm	0.0019 ppm	13.0274 ppm	0.0000 ppm	-0.0005 ppm	0.0001 ppm	0.0007 ppm
Concentration per Run 2	0.0813 ppm	0.0017 ppm	13.2171 ppm	-0.0001 ppm	-0.0007 ppm	0.0005 ppm	0.0000 ppm
Concentration per Run 3	0.0819 ppm	0.0017 ppm	13.1930 ppm	0.0001 ppm	-0.0017 ppm	0.0000 ppm	0.0005 ppm
Concentration RSD	0.4 %	4.2 %	0.8 %	1,867.6 %	65.8 %	115.3 %	80.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.4415 ppm	-0.0005 ppm	0.4866 ppm	0.0001 ppm	-0.0011 ppm	0.0006 ppm	0.0024 ppm
Concentration per Run 1	5.4624 ppm	-0.0002 ppm	0.4852 ppm	0.0001 ppm	-0.0013 ppm	0.0005 ppm	0.0024 ppm
Concentration per Run 2	5.4253 ppm	-0.0007 ppm	0.4873 ppm	0.0004 ppm	-0.0015 ppm	0.0006 ppm	0.0023 ppm
Concentration per Run 3	5.4368 ppm	-0.0006 ppm	0.4873 ppm	-0.0001 ppm	-0.0007 ppm	0.0006 ppm	0.0025 ppm
Concentration RSD	0.3 %	47.1 %	0.2 %	140.4 %	37.3 %	7.3 %	3.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.7223 %	91.9396 %	88.2918 %	96.5084 %	81.8640 %	90.0003 %	0.0001 ppm
Concentration per Run 1	100.8979 %	92.4100 %	88.2106 %	96.8175 %	81.3646 %	90.3690 %	0.0002 ppm
Concentration per Run 2	99.3651 %	91.6421 %	89.0092 %	96.4911 %	82.3033 %	89.7581 %	0.0000 ppm
Concentration per Run 3	98.9039 %	91.7668 %	87.6557 %	96.2165 %	81.9240 %	89.8738 %	0.0000 ppm
Concentration RSD	1.0 %	0.4 %	0.8 %	0.3 %	0.6 %	0.4 %	213.5 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2538013-07 WG2082870

Analysis started at: 6/26/2025 10:43:44 AM

Comments: <Comment>

Rack: 1

Vial: 17

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0729 ppm	0.0002 ppm	0.0152 ppm	0.0121 ppm	0.0000 ppm	12.9429 ppm
Concentration per Run 1	0.0002 ppm	0.0746 ppm	-0.0008 ppm	0.0154 ppm	0.0121 ppm	0.0000 ppm	13.0733 ppm
Concentration per Run 2	-0.0001 ppm	0.0729 ppm	0.0013 ppm	0.0152 ppm	0.0122 ppm	0.0000 ppm	12.9519 ppm
Concentration per Run 3	0.0000 ppm	0.0713 ppm	0.0000 ppm	0.0151 ppm	0.0121 ppm	0.0001 ppm	12.8036 ppm
Concentration RSD	554.6 %	2.3 %	581.4 %	0.9 %	0.3 %	49.3 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	-0.0003 ppm	0.0025 ppm	0.0014 ppm	0.1002 ppm	1.2557 ppm	6.1459 ppm
Concentration per Run 1	0.0001 ppm	-0.0004 ppm	0.0025 ppm	0.0015 ppm	0.1017 ppm	1.2213 ppm	6.1650 ppm
Concentration per Run 2	0.0001 ppm	-0.0004 ppm	0.0020 ppm	0.0012 ppm	0.0990 ppm	1.2767 ppm	6.1360 ppm
Concentration per Run 3	0.0001 ppm	-0.0002 ppm	0.0029 ppm	0.0016 ppm	0.0999 ppm	1.2690 ppm	6.1367 ppm
Concentration RSD	7.0 %	43.3 %	18.3 %	12.3 %	1.4 %	2.4 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0057 ppm	0.0003 ppm	17.9828 ppm	0.0001 ppm	-0.0012 ppm	0.0006 ppm	0.0003 ppm
Concentration per Run 1	0.0057 ppm	0.0002 ppm	17.5402 ppm	0.0001 ppm	-0.0012 ppm	0.0005 ppm	-0.0007 ppm
Concentration per Run 2	0.0057 ppm	0.0003 ppm	18.2040 ppm	0.0002 ppm	-0.0009 ppm	0.0009 ppm	0.0006 ppm
Concentration per Run 3	0.0056 ppm	0.0004 ppm	18.2042 ppm	-0.0001 ppm	-0.0014 ppm	0.0005 ppm	0.0010 ppm
Concentration RSD	0.8 %	25.1 %	2.1 %	311.9 %	23.2 %	34.1 %	264.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	7.1300 ppm	-0.0001 ppm	0.0668 ppm	0.0021 ppm	-0.0001 ppm	0.0005 ppm	0.0023 ppm
Concentration per Run 1	7.1293 ppm	-0.0001 ppm	0.0664 ppm	0.0021 ppm	-0.0012 ppm	0.0006 ppm	0.0025 ppm
Concentration per Run 2	7.1120 ppm	-0.0005 ppm	0.0668 ppm	0.0020 ppm	0.0009 ppm	0.0006 ppm	0.0023 ppm
Concentration per Run 3	7.1487 ppm	0.0003 ppm	0.0671 ppm	0.0022 ppm	0.0000 ppm	0.0004 ppm	0.0021 ppm
Concentration RSD	0.3 %	424.0 %	0.5 %	5.5 %	842.8 %	20.7 %	8.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.5487 %	96.6550 %	94.1231 %	98.3909 %	89.6576 %	94.6857 %	0.0026 ppm
Concentration per Run 1	102.1367 %	96.3317 %	94.5253 %	97.9668 %	89.8859 %	94.2111 %	0.0026 ppm
Concentration per Run 2	101.1323 %	96.9992 %	94.8156 %	98.3887 %	89.9816 %	95.1633 %	0.0024 ppm
Concentration per Run 3	101.3771 %	96.6340 %	93.0284 %	98.8173 %	89.1052 %	94.6829 %	0.0027 ppm
Concentration RSD	0.5 %	0.3 %	1.0 %	0.4 %	0.5 %	0.5 %	6.2 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: CCV
Analysis started at: 6/26/2025 10:50:18 AM
Comments: <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5031 ppm	0.4922 ppm	0.4643 ppm	0.5016 ppm	0.4859 ppm	0.4927 ppm	0.5073 ppm
Concentration per Run 1	0.5042 ppm	0.4802 ppm	0.4637 ppm	0.5031 ppm	0.4747 ppm	0.4801 ppm	0.4898 ppm
Concentration per Run 2	0.5031 ppm	0.4959 ppm	0.4627 ppm	0.5004 ppm	0.4897 ppm	0.4973 ppm	0.5116 ppm
Concentration per Run 3	0.5021 ppm	0.5006 ppm	0.4664 ppm	0.5012 ppm	0.4933 ppm	0.5008 ppm	0.5206 ppm
Recovery Percentage 1	100.626 %	98.447 %	92.851 %	100.311 %	97.187 %	98.548 %	101.467 %
Concentration RSD	0.2 %	2.2 %	0.4 %	0.3 %	2.0 %	2.3 %	3.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4761 ppm	0.5108 ppm	0.5162 ppm	0.4928 ppm	0.4923 ppm	5.1903 ppm	0.5123 ppm
Concentration per Run 1	0.4764 ppm	0.5121 ppm	0.5177 ppm	0.4934 ppm	0.4773 ppm	5.1559 ppm	0.5127 ppm
Concentration per Run 2	0.4750 ppm	0.5090 ppm	0.5155 ppm	0.4923 ppm	0.4997 ppm	5.1788 ppm	0.5126 ppm
Concentration per Run 3	0.4769 ppm	0.5113 ppm	0.5153 ppm	0.4926 ppm	0.4998 ppm	5.2362 ppm	0.5116 ppm
Recovery Percentage 1	95.228 %	102.162 %	103.232 %	98.559 %	98.457 %	103.806 %	102.463 %
Concentration RSD	0.2 %	0.3 %	0.3 %	0.1 %	2.6 %	0.8 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5038 ppm	0.4879 ppm	9.8188 ppm	0.4749 ppm	0.4850 ppm	0.4805 ppm	0.4999 ppm
Concentration per Run 1	0.4903 ppm	0.4885 ppm	9.7205 ppm	0.4745 ppm	0.4842 ppm	0.4794 ppm	0.4992 ppm
Concentration per Run 2	0.5090 ppm	0.4867 ppm	9.8321 ppm	0.4735 ppm	0.4843 ppm	0.4800 ppm	0.4996 ppm
Concentration per Run 3	0.5122 ppm	0.4886 ppm	9.9039 ppm	0.4767 ppm	0.4866 ppm	0.4822 ppm	0.5008 ppm
Recovery Percentage 1	100.763 %	97.583 %	98.188 %	94.983 %	97.006 %	96.110 %	99.979 %
Concentration RSD	2.4 %	0.2 %	0.9 %	0.3 %	0.3 %	0.3 %	0.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.2227 ppm	0.4614 ppm	0.5180 ppm	0.5069 ppm	0.4841 ppm	0.5000 ppm	0.5064 ppm
Concentration per Run 1	5.2244 ppm	0.4595 ppm	0.5061 ppm	0.5093 ppm	0.4813 ppm	0.5012 ppm	0.5054 ppm
Concentration per Run 2	5.2126 ppm	0.4614 ppm	0.5224 ppm	0.5048 ppm	0.4856 ppm	0.4990 ppm	0.5068 ppm
Concentration per Run 3	5.2310 ppm	0.4634 ppm	0.5256 ppm	0.5065 ppm	0.4853 ppm	0.4998 ppm	0.5069 ppm
Recovery Percentage 1	99.479 %	92.284 %	103.603 %	101.378 %	96.815 %	100.002 %	101.277 %
Concentration RSD	0.2 %	0.4 %	2.0 %	0.4 %	0.5 %	0.2 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.9995 %	98.2659 %	96.1419 %	101.6191 %	90.6231 %	97.5747 %	0.5124 ppm
Concentration per Run 1	103.3270 %	97.9067 %	96.1677 %	104.1584 %	90.6557 %	97.3174 %	0.5074 ppm
Concentration per Run 2	100.1980 %	98.7283 %	96.2513 %	100.9004 %	90.9026 %	97.9467 %	0.5130 ppm
Concentration per Run 3	99.4734 %	98.1627 %	96.0068 %	99.7984 %	90.3111 %	97.4599 %	0.5166 ppm
Recovery Percentage 1							102.471 %
Concentration RSD	2.0 %	0.4 %	0.1 %	2.2 %	0.3 %	0.3 %	0.9 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: CCB
Analysis started at: 6/26/2025 10:56:37 AM
Comments: <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0019 ppm	-0.0019 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	-0.0008 ppm
Concentration per Run 1	-0.0002 ppm	0.0001 ppm	-0.0023 ppm	0.0009 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0013 ppm	-0.0006 ppm	0.0011 ppm	0.0000 ppm	0.0000 ppm	-0.0019 ppm
Concentration per Run 3	0.0000 ppm	0.0042 ppm	-0.0027 ppm	0.0011 ppm	0.0000 ppm	0.0000 ppm	-0.0003 ppm
Recovery Percentage 1	-1.231 %	1.874 %	-37.936 %	3.498 %	0.201 %	0.192 %	-0.781 %
Concentration RSD	117.6 %	113.5 %	58.7 %	9.3 %	85.6 %	179.7 %	122.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0004 ppm	-0.0049 ppm	0.0004 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0004 ppm	0.0000 ppm	-0.0060 ppm	-0.0005 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0004 ppm	0.0011 ppm	-0.0036 ppm	0.0010 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0003 ppm	-0.0050 ppm	0.0005 ppm
Recovery Percentage 1	-0.645 %	-0.155 %	0.472 %	3.842 %	0.899 %	-0.194 %	0.350 %
Concentration RSD	36.0 %	331.3 %	221.2 %	9.5 %	133.1 %	24.5 %	210.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	0.0007 ppm	0.0032 ppm	0.0002 ppm	0.0001 ppm	0.0001 ppm	0.0007 ppm
Concentration per Run 1	0.0001 ppm	0.0007 ppm	0.0018 ppm	0.0001 ppm	0.0002 ppm	0.0009 ppm	0.0014 ppm
Concentration per Run 2	0.0001 ppm	0.0007 ppm	0.0059 ppm	0.0001 ppm	0.0000 ppm	-0.0004 ppm	-0.0003 ppm
Concentration per Run 3	0.0001 ppm	0.0006 ppm	0.0018 ppm	0.0003 ppm	0.0001 ppm	-0.0003 ppm	0.0012 ppm
Recovery Percentage 1	1.083 %	1.366 %	0.159 %	0.650 %	0.909 %	0.129 %	7.316 %
Concentration RSD	8.1 %	5.8 %	75.4 %	46.7 %	130.7 %	1,098.3 %	124.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0000 ppm	0.0003 ppm	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0001 ppm	-0.0001 ppm
Concentration per Run 1	0.0004 ppm	0.0005 ppm	0.0000 ppm	0.0001 ppm	0.0009 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 2	-0.0005 ppm	-0.0001 ppm	0.0000 ppm	0.0003 ppm	-0.0005 ppm	0.0003 ppm	-0.0001 ppm
Concentration per Run 3	-0.0001 ppm	0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0001 ppm	-0.0002 ppm
Recovery Percentage 1	-0.008 %	0.661 %	-0.085 %	0.975 %	1.227 %	1.357 %	-1.249 %
Concentration RSD	995.3 %	107.8 %	47.9 %	154.1 %	290.9 %	141.4 %	190.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.5272 %	100.9209 %	97.8478 %	99.6427 %	98.5414 %	99.0220 %	0.0001 ppm
Concentration per Run 1	103.1438 %	101.1196 %	97.4737 %	100.6157 %	98.1199 %	99.1329 %	-0.0004 ppm
Concentration per Run 2	100.6611 %	100.5619 %	98.6408 %	98.9964 %	98.6477 %	98.5994 %	0.0004 ppm
Concentration per Run 3	100.7768 %	101.0812 %	97.4291 %	99.3159 %	98.8566 %	99.3336 %	0.0002 ppm
Recovery Percentage 1							0.548 %
Concentration RSD	1.4 %	0.3 %	0.7 %	0.9 %	0.4 %	0.4 %	676.3 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: WG2083757-1 WG2083757

Analysis started at: 6/26/2025 11:53:52 AM

Comments: <Comment>

Rack: 1

Vial: 21

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0050 ppm	-0.0010 ppm	0.0054 ppm	0.0002 ppm	0.0000 ppm	0.0322 ppm
Concentration per Run 1	-0.0001 ppm	0.0048 ppm	-0.0013 ppm	0.0053 ppm	0.0002 ppm	0.0000 ppm	0.0288 ppm
Concentration per Run 2	-0.0001 ppm	0.0055 ppm	-0.0011 ppm	0.0056 ppm	0.0003 ppm	0.0000 ppm	0.0321 ppm
Concentration per Run 3	-0.0001 ppm	0.0048 ppm	-0.0007 ppm	0.0053 ppm	0.0003 ppm	0.0000 ppm	0.0358 ppm
Concentration RSD	44.6 %	8.3 %	29.2 %	3.0 %	6.3 %	173.8 %	10.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0002 ppm	-0.0005 ppm	0.0005 ppm	0.0013 ppm	0.0063 ppm	0.0246 ppm	0.0055 ppm
Concentration per Run 1	0.0002 ppm	-0.0004 ppm	0.0004 ppm	0.0012 ppm	0.0052 ppm	0.0208 ppm	0.0068 ppm
Concentration per Run 2	0.0002 ppm	-0.0006 ppm	0.0003 ppm	0.0014 ppm	0.0068 ppm	0.0242 ppm	0.0059 ppm
Concentration per Run 3	0.0002 ppm	-0.0005 ppm	0.0008 ppm	0.0013 ppm	0.0069 ppm	0.0289 ppm	0.0039 ppm
Concentration RSD	7.0 %	22.0 %	53.4 %	9.1 %	14.4 %	16.4 %	26.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0005 ppm	0.0003 ppm	114.9854 ppm	-0.0007 ppm	-0.0018 ppm	0.0011 ppm	0.0034 ppm
Concentration per Run 1	0.0004 ppm	0.0000 ppm	104.8686 ppm	-0.0008 ppm	-0.0022 ppm	0.0012 ppm	0.0043 ppm
Concentration per Run 2	0.0006 ppm	0.0004 ppm	117.9002 ppm	-0.0006 ppm	-0.0016 ppm	0.0012 ppm	0.0030 ppm
Concentration per Run 3	0.0006 ppm	0.0004 ppm	122.1874 ppm	-0.0006 ppm	-0.0015 ppm	0.0010 ppm	0.0030 ppm
Concentration RSD	28.8 %	76.1 %	7.8 %	17.7 %	23.3 %	10.3 %	23.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0553 ppm	0.0020 ppm	0.0001 ppm	-0.0002 ppm	-0.0066 ppm	-0.0001 ppm	0.0015 ppm
Concentration per Run 1	0.0541 ppm	0.0019 ppm	0.0001 ppm	0.0000 ppm	-0.0067 ppm	-0.0002 ppm	0.0014 ppm
Concentration per Run 2	0.0567 ppm	0.0019 ppm	0.0001 ppm	-0.0003 ppm	-0.0054 ppm	-0.0002 ppm	0.0016 ppm
Concentration per Run 3	0.0549 ppm	0.0020 ppm	0.0001 ppm	-0.0002 ppm	-0.0078 ppm	0.0000 ppm	0.0015 ppm
Concentration RSD	2.4 %	2.9 %	39.6 %	108.4 %	17.9 %	106.9 %	5.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	96.7275 %	90.5580 %	90.1785 %	111.0633 %	74.9172 %	92.4556 %	0.0000 ppm
Concentration per Run 1	98.6568 %	90.6186 %	90.2945 %	119.0697 %	75.0931 %	92.9249 %	0.0001 ppm
Concentration per Run 2	96.2746 %	90.6690 %	90.3682 %	109.3031 %	75.1988 %	92.3988 %	0.0000 ppm
Concentration per Run 3	95.2512 %	90.3866 %	89.8728 %	104.8172 %	74.4596 %	92.0431 %	0.0001 ppm
Concentration RSD	1.8 %	0.2 %	0.3 %	6.6 %	0.5 %	0.5 %	129.4 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: WG2083757-2 WG2083757

Analysis started at: 6/26/2025 12:00:40 PM

Comments: <Comment>

Rack: 1

Vial: 22

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0524 ppm	2.1501 ppm	0.1072 ppm	0.9052 ppm	2.0869 ppm	0.0525 ppm	9.7003 ppm
Concentration per Run 1	0.0523 ppm	2.1045 ppm	0.1073 ppm	0.9025 ppm	2.0147 ppm	0.0509 ppm	9.3555 ppm
Concentration per Run 2	0.0526 ppm	2.1539 ppm	0.1060 ppm	0.9041 ppm	2.1094 ppm	0.0534 ppm	9.9118 ppm
Concentration per Run 3	0.0524 ppm	2.1918 ppm	0.1082 ppm	0.9089 ppm	2.1366 ppm	0.0533 ppm	9.8336 ppm
Concentration RSD	0.3 %	2.0 %	1.0 %	0.4 %	3.1 %	2.7 %	3.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0484 ppm	0.5222 ppm	0.2141 ppm	0.2614 ppm	1.0602 ppm	9.8087 ppm	9.3851 ppm
Concentration per Run 1	0.0482 ppm	0.5204 ppm	0.2133 ppm	0.2612 ppm	1.0345 ppm	9.8311 ppm	9.3658 ppm
Concentration per Run 2	0.0482 ppm	0.5204 ppm	0.2162 ppm	0.2606 ppm	1.0746 ppm	9.5991 ppm	9.4300 ppm
Concentration per Run 3	0.0489 ppm	0.5259 ppm	0.2129 ppm	0.2623 ppm	1.0716 ppm	9.9959 ppm	9.3597 ppm
Concentration RSD	0.9 %	0.6 %	0.8 %	0.3 %	2.1 %	2.0 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5228 ppm	0.9390 ppm	9.6427 ppm	0.5164 ppm	0.5000 ppm	0.4742 ppm	0.1095 ppm
Concentration per Run 1	0.5055 ppm	0.9362 ppm	9.6577 ppm	0.5160 ppm	0.4999 ppm	0.4743 ppm	0.1096 ppm
Concentration per Run 2	0.5325 ppm	0.9366 ppm	9.4480 ppm	0.5163 ppm	0.4990 ppm	0.4751 ppm	0.1073 ppm
Concentration per Run 3	0.5306 ppm	0.9443 ppm	9.8223 ppm	0.5169 ppm	0.5012 ppm	0.4734 ppm	0.1115 ppm
Concentration RSD	2.9 %	0.5 %	1.9 %	0.1 %	0.2 %	0.2 %	1.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.1856 ppm	0.9067 ppm	0.9670 ppm	0.9711 ppm	0.1060 ppm	0.5317 ppm	0.5202 ppm
Concentration per Run 1	1.1861 ppm	0.9057 ppm	0.9436 ppm	0.9687 ppm	0.1068 ppm	0.5309 ppm	0.5193 ppm
Concentration per Run 2	1.1866 ppm	0.9077 ppm	0.9747 ppm	0.9764 ppm	0.1065 ppm	0.5341 ppm	0.5183 ppm
Concentration per Run 3	1.1842 ppm	0.9068 ppm	0.9827 ppm	0.9682 ppm	0.1045 ppm	0.5301 ppm	0.5230 ppm
Concentration RSD	0.1 %	0.1 %	2.1 %	0.5 %	1.2 %	0.4 %	0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.0815 %	96.4578 %	95.5019 %	100.6896 %	85.1725 %	96.4425 %	0.0002 ppm
Concentration per Run 1	101.1286 %	96.3834 %	95.0688 %	103.6654 %	85.0069 %	96.5041 %	0.0003 ppm
Concentration per Run 2	98.3658 %	96.4944 %	95.3622 %	99.4801 %	84.9650 %	96.4810 %	0.0002 ppm
Concentration per Run 3	97.7501 %	96.4956 %	96.0748 %	98.9233 %	85.5456 %	96.3425 %	0.0002 ppm
Concentration RSD	1.8 %	0.1 %	0.5 %	2.6 %	0.4 %	0.1 %	41.6 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2538381-01 WG2083757

Analysis started at: 6/26/2025 12:07:07 PM

Comments: <Comment>

Rack: 1

Vial: 23

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.2859 ppm	0.0309 ppm	0.0381 ppm	0.0280 ppm	0.0000 ppm	13.0500 ppm
Concentration per Run 1	0.0000 ppm	0.2761 ppm	0.0326 ppm	0.0384 ppm	0.0273 ppm	0.0000 ppm	12.8296 ppm
Concentration per Run 2	0.0000 ppm	0.2860 ppm	0.0290 ppm	0.0381 ppm	0.0283 ppm	0.0000 ppm	13.1645 ppm
Concentration per Run 3	0.0001 ppm	0.2956 ppm	0.0311 ppm	0.0378 ppm	0.0284 ppm	0.0000 ppm	13.1559 ppm
Concentration RSD	168.4 %	3.4 %	5.7 %	0.8 %	2.2 %	49.1 %	1.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0050 ppm	-0.0004 ppm	0.0023 ppm	0.0040 ppm	0.1151 ppm	0.3777 ppm	3.1400 ppm
Concentration per Run 1	0.0050 ppm	-0.0003 ppm	0.0025 ppm	0.0041 ppm	0.1122 ppm	0.3530 ppm	3.1552 ppm
Concentration per Run 2	0.0051 ppm	-0.0005 ppm	0.0021 ppm	0.0040 ppm	0.1159 ppm	0.3880 ppm	3.1323 ppm
Concentration per Run 3	0.0050 ppm	-0.0003 ppm	0.0024 ppm	0.0039 ppm	0.1172 ppm	0.3922 ppm	3.1325 ppm
Concentration RSD	0.8 %	29.5 %	9.8 %	2.3 %	2.3 %	5.7 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0238 ppm	0.0013 ppm	132.8841 ppm	-0.0003 ppm	0.0134 ppm	0.0008 ppm	0.0040 ppm
Concentration per Run 1	0.0233 ppm	0.0013 ppm	132.1747 ppm	-0.0003 ppm	0.0130 ppm	0.0011 ppm	0.0044 ppm
Concentration per Run 2	0.0241 ppm	0.0012 ppm	134.8513 ppm	-0.0002 ppm	0.0137 ppm	0.0010 ppm	0.0038 ppm
Concentration per Run 3	0.0241 ppm	0.0013 ppm	131.6263 ppm	-0.0004 ppm	0.0135 ppm	0.0001 ppm	0.0038 ppm
Concentration RSD	1.9 %	4.6 %	1.3 %	43.3 %	2.6 %	72.6 %	8.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.7393 ppm	0.0022 ppm	0.1372 ppm	0.0095 ppm	-0.0065 ppm	0.0003 ppm	0.0087 ppm
Concentration per Run 1	0.7392 ppm	0.0020 ppm	0.1336 ppm	0.0095 ppm	-0.0060 ppm	0.0004 ppm	0.0088 ppm
Concentration per Run 2	0.7406 ppm	0.0022 ppm	0.1383 ppm	0.0097 ppm	-0.0072 ppm	0.0005 ppm	0.0087 ppm
Concentration per Run 3	0.7382 ppm	0.0022 ppm	0.1395 ppm	0.0091 ppm	-0.0064 ppm	0.0002 ppm	0.0088 ppm
Concentration RSD	0.2 %	5.4 %	2.3 %	3.1 %	9.2 %	45.6 %	0.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	96.9676 %	91.2920 %	90.8625 %	98.7401 %	74.2510 %	91.2833 %	0.0003 ppm
Concentration per Run 1	98.4149 %	91.2364 %	90.9083 %	100.6147 %	74.5076 %	91.2672 %	0.0001 ppm
Concentration per Run 2	96.3153 %	91.3429 %	90.9418 %	98.1272 %	74.0252 %	91.2915 %	0.0004 ppm
Concentration per Run 3	96.1727 %	91.2966 %	90.7376 %	97.4785 %	74.2201 %	91.2913 %	0.0003 ppm
Concentration RSD	1.3 %	0.1 %	0.1 %	1.7 %	0.3 %	0.0 %	59.6 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: WG2083757-3 WG2083757

Analysis started at: 6/26/2025 12:13:51 PM

Comments: <Comment>

Rack: 1

Vial: 24

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0531 ppm	2.4458 ppm	0.1433 ppm	0.9291 ppm	2.0556 ppm	0.0530 ppm	22.2324 ppm
Concentration per Run 1	0.0535 ppm	2.4151 ppm	0.1435 ppm	0.9308 ppm	2.0045 ppm	0.0523 ppm	21.9440 ppm
Concentration per Run 2	0.0526 ppm	2.4762 ppm	0.1431 ppm	0.9324 ppm	2.0963 ppm	0.0532 ppm	22.1715 ppm
Concentration per Run 3	0.0531 ppm	2.4461 ppm	0.1433 ppm	0.9240 ppm	2.0661 ppm	0.0535 ppm	22.5817 ppm
Concentration RSD	0.8 %	1.2 %	0.1 %	0.5 %	2.3 %	1.2 %	1.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0530 ppm	0.4989 ppm	0.2140 ppm	0.2649 ppm	1.1650 ppm	10.1704 ppm	11.6356 ppm
Concentration per Run 1	0.0533 ppm	0.5002 ppm	0.2136 ppm	0.2670 ppm	1.1508 ppm	10.0133 ppm	11.7003 ppm
Concentration per Run 2	0.0537 ppm	0.5031 ppm	0.2130 ppm	0.2658 ppm	1.1655 ppm	10.4122 ppm	11.6142 ppm
Concentration per Run 3	0.0521 ppm	0.4933 ppm	0.2155 ppm	0.2620 ppm	1.1787 ppm	10.0857 ppm	11.5924 ppm
Concentration RSD	1.5 %	1.0 %	0.6 %	1.0 %	1.2 %	2.1 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5394 ppm	0.9209 ppm	135.6679 ppm	0.5403 ppm	0.5156 ppm	0.5159 ppm	0.1149 ppm
Concentration per Run 1	0.5327 ppm	0.9224 ppm	134.0162 ppm	0.5438 ppm	0.5169 ppm	0.5163 ppm	0.1157 ppm
Concentration per Run 2	0.5406 ppm	0.9278 ppm	140.1308 ppm	0.5385 ppm	0.5143 ppm	0.5122 ppm	0.1154 ppm
Concentration per Run 3	0.5450 ppm	0.9124 ppm	132.8567 ppm	0.5386 ppm	0.5155 ppm	0.5192 ppm	0.1137 ppm
Concentration RSD	1.2 %	0.8 %	2.9 %	0.6 %	0.3 %	0.7 %	0.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.0281 ppm	0.9375 ppm	1.0901 ppm	0.9636 ppm	0.0980 ppm	0.5298 ppm	0.5265 ppm
Concentration per Run 1	2.0334 ppm	0.9399 ppm	1.0749 ppm	0.9642 ppm	0.0980 ppm	0.5299 ppm	0.5269 ppm
Concentration per Run 2	2.0178 ppm	0.9360 ppm	1.1005 ppm	0.9618 ppm	0.0973 ppm	0.5283 ppm	0.5297 ppm
Concentration per Run 3	2.0330 ppm	0.9364 ppm	1.0950 ppm	0.9649 ppm	0.0986 ppm	0.5311 ppm	0.5230 ppm
Concentration RSD	0.4 %	0.2 %	1.2 %	0.2 %	0.7 %	0.3 %	0.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	96.1529 %	91.2599 %	90.5051 %	97.7626 %	73.7769 %	91.1566 %	0.0004 ppm
Concentration per Run 1	96.3813 %	91.3534 %	91.0642 %	98.7746 %	73.7715 %	91.1631 %	0.0001 ppm
Concentration per Run 2	96.2001 %	91.1013 %	90.9846 %	97.5749 %	74.3174 %	90.9826 %	0.0009 ppm
Concentration per Run 3	95.8772 %	91.3250 %	89.4664 %	96.9383 %	73.2419 %	91.3241 %	0.0003 ppm
Concentration RSD	0.3 %	0.2 %	1.0 %	1.0 %	0.7 %	0.2 %	107.0 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: WG2083757-4 WG2083757

Analysis started at: 6/26/2025 12:20:27 PM

Comments: <Comment>

Rack: 1

Vial: 25

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.3210 ppm	0.0331 ppm	0.0395 ppm	0.0288 ppm	0.0000 ppm	13.2729 ppm
Concentration per Run 1	-0.0001 ppm	0.3193 ppm	0.0307 ppm	0.0396 ppm	0.0288 ppm	0.0000 ppm	13.1712 ppm
Concentration per Run 2	-0.0002 ppm	0.3225 ppm	0.0356 ppm	0.0394 ppm	0.0287 ppm	0.0001 ppm	13.2681 ppm
Concentration per Run 3	0.0000 ppm	0.3211 ppm	0.0331 ppm	0.0395 ppm	0.0289 ppm	0.0000 ppm	13.3794 ppm
Concentration RSD	143.3 %	0.5 %	7.5 %	0.3 %	0.4 %	30.6 %	0.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0052 ppm	-0.0003 ppm	0.0024 ppm	0.0040 ppm	0.1310 ppm	0.4080 ppm	3.1804 ppm
Concentration per Run 1	0.0052 ppm	-0.0003 ppm	0.0025 ppm	0.0041 ppm	0.1298 ppm	0.4086 ppm	3.1647 ppm
Concentration per Run 2	0.0051 ppm	-0.0004 ppm	0.0023 ppm	0.0039 ppm	0.1314 ppm	0.4089 ppm	3.1863 ppm
Concentration per Run 3	0.0053 ppm	-0.0003 ppm	0.0025 ppm	0.0040 ppm	0.1319 ppm	0.4063 ppm	3.1903 ppm
Concentration RSD	1.3 %	20.7 %	5.6 %	2.2 %	0.9 %	0.3 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0245 ppm	0.0012 ppm	130.8137 ppm	-0.0002 ppm	0.0139 ppm	0.0015 ppm	0.0032 ppm
Concentration per Run 1	0.0243 ppm	0.0014 ppm	132.0427 ppm	0.0000 ppm	0.0140 ppm	0.0010 ppm	0.0048 ppm
Concentration per Run 2	0.0248 ppm	0.0012 ppm	129.4370 ppm	-0.0003 ppm	0.0139 ppm	0.0019 ppm	0.0017 ppm
Concentration per Run 3	0.0245 ppm	0.0011 ppm	130.9614 ppm	-0.0003 ppm	0.0139 ppm	0.0015 ppm	0.0033 ppm
Concentration RSD	0.9 %	9.6 %	1.0 %	111.2 %	0.4 %	30.4 %	47.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.7918 ppm	0.0015 ppm	0.1414 ppm	0.0099 ppm	-0.0070 ppm	0.0005 ppm	0.0087 ppm
Concentration per Run 1	0.7873 ppm	0.0013 ppm	0.1410 ppm	0.0098 ppm	-0.0074 ppm	0.0005 ppm	0.0086 ppm
Concentration per Run 2	0.7913 ppm	0.0018 ppm	0.1414 ppm	0.0100 ppm	-0.0072 ppm	0.0005 ppm	0.0086 ppm
Concentration per Run 3	0.7968 ppm	0.0013 ppm	0.1417 ppm	0.0099 ppm	-0.0063 ppm	0.0006 ppm	0.0088 ppm
Concentration RSD	0.6 %	17.3 %	0.2 %	0.8 %	8.3 %	4.4 %	1.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	96.7811 %	92.1059 %	92.1428 %	98.1455 %	75.4373 %	91.6779 %	0.0007 ppm
Concentration per Run 1	96.6351 %	92.0036 %	93.1019 %	98.5253 %	76.0545 %	91.5507 %	0.0006 ppm
Concentration per Run 2	97.2537 %	92.3449 %	91.9711 %	98.5018 %	75.4156 %	91.8850 %	0.0010 ppm
Concentration per Run 3	96.4544 %	91.9691 %	91.3553 %	97.4093 %	74.8418 %	91.5979 %	0.0005 ppm
Concentration RSD	0.4 %	0.2 %	1.0 %	0.6 %	0.8 %	0.2 %	36.0 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2538381-02 WG2083757

Analysis started at: 6/26/2025 12:27:10 PM

Comments: <Comment>

Rack: 1

Vial: 26

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.1346 ppm	0.0396 ppm	0.0296 ppm	0.0281 ppm	0.0000 ppm	15.3443 ppm
Concentration per Run 1	-0.0001 ppm	0.1320 ppm	0.0400 ppm	0.0299 ppm	0.0275 ppm	0.0000 ppm	15.0482 ppm
Concentration per Run 2	-0.0003 ppm	0.1369 ppm	0.0408 ppm	0.0296 ppm	0.0284 ppm	0.0000 ppm	15.2877 ppm
Concentration per Run 3	-0.0004 ppm	0.1349 ppm	0.0379 ppm	0.0295 ppm	0.0284 ppm	0.0000 ppm	15.6971 ppm
Concentration RSD	66.3 %	1.8 %	3.9 %	0.7 %	1.9 %	17.9 %	2.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0043 ppm	-0.0004 ppm	0.0013 ppm	0.0026 ppm	0.0548 ppm	0.4291 ppm	5.2007 ppm
Concentration per Run 1	0.0043 ppm	-0.0006 ppm	0.0014 ppm	0.0025 ppm	0.0537 ppm	0.4168 ppm	5.2034 ppm
Concentration per Run 2	0.0044 ppm	-0.0004 ppm	0.0012 ppm	0.0026 ppm	0.0553 ppm	0.4417 ppm	5.1998 ppm
Concentration per Run 3	0.0044 ppm	-0.0003 ppm	0.0013 ppm	0.0027 ppm	0.0556 ppm	0.4288 ppm	5.1989 ppm
Concentration RSD	1.1 %	32.8 %	7.4 %	3.5 %	1.8 %	2.9 %	0.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0316 ppm	0.0006 ppm	122.7597 ppm	-0.0005 ppm	0.0096 ppm	0.0011 ppm	0.0028 ppm
Concentration per Run 1	0.0312 ppm	0.0006 ppm	115.2673 ppm	-0.0004 ppm	0.0098 ppm	0.0015 ppm	0.0030 ppm
Concentration per Run 2	0.0315 ppm	0.0006 ppm	128.5044 ppm	-0.0005 ppm	0.0091 ppm	0.0005 ppm	0.0035 ppm
Concentration per Run 3	0.0320 ppm	0.0005 ppm	124.5076 ppm	-0.0005 ppm	0.0100 ppm	0.0015 ppm	0.0019 ppm
Concentration RSD	1.2 %	12.0 %	5.5 %	13.5 %	4.9 %	50.9 %	30.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.4590 ppm	0.0015 ppm	0.1728 ppm	0.0036 ppm	-0.0075 ppm	0.0002 ppm	0.0055 ppm
Concentration per Run 1	0.4594 ppm	0.0009 ppm	0.1688 ppm	0.0035 ppm	-0.0066 ppm	0.0002 ppm	0.0056 ppm
Concentration per Run 2	0.4597 ppm	0.0014 ppm	0.1749 ppm	0.0035 ppm	-0.0085 ppm	0.0004 ppm	0.0055 ppm
Concentration per Run 3	0.4578 ppm	0.0021 ppm	0.1747 ppm	0.0037 ppm	-0.0073 ppm	0.0001 ppm	0.0054 ppm
Concentration RSD	0.2 %	40.6 %	2.0 %	4.0 %	12.5 %	53.2 %	2.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	96.9068 %	91.3951 %	91.3004 %	98.7843 %	74.9490 %	91.3819 %	0.0001 ppm
Concentration per Run 1	98.2749 %	91.3390 %	91.5857 %	100.9096 %	75.1066 %	91.3802 %	0.0000 ppm
Concentration per Run 2	97.1076 %	91.4254 %	90.7402 %	98.3720 %	74.4049 %	91.3422 %	0.0002 ppm
Concentration per Run 3	95.3379 %	91.4209 %	91.5753 %	97.0712 %	75.3356 %	91.4232 %	0.0003 ppm
Concentration RSD	1.5 %	0.1 %	0.5 %	2.0 %	0.6 %	0.0 %	95.1 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2538381-03 WG2083757
 Analysis started at: 6/26/2025 12:33:52 PM
 Comments: <Comment>
 Rack: 1
 Vial: 27

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.2540 ppm	0.0238 ppm	0.0348 ppm	0.0265 ppm	0.0000 ppm	12.5261 ppm
Concentration per Run 1	-0.0001 ppm	0.2499 ppm	0.0228 ppm	0.0337 ppm	0.0261 ppm	0.0000 ppm	12.4437 ppm
Concentration per Run 2	0.0000 ppm	0.2521 ppm	0.0234 ppm	0.0337 ppm	0.0266 ppm	0.0000 ppm	12.5703 ppm
Concentration per Run 3	0.0001 ppm	0.2599 ppm	0.0251 ppm	0.0370 ppm	0.0268 ppm	0.0000 ppm	12.5644 ppm
Concentration RSD	794.9 %	2.1 %	5.1 %	5.6 %	1.5 %	146.8 %	0.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0033 ppm	-0.0005 ppm	0.0014 ppm	0.0026 ppm	0.0976 ppm	0.3332 ppm	3.1639 ppm
Concentration per Run 1	0.0033 ppm	-0.0004 ppm	0.0015 ppm	0.0025 ppm	0.0972 ppm	0.3177 ppm	3.0597 ppm
Concentration per Run 2	0.0031 ppm	-0.0004 ppm	0.0013 ppm	0.0023 ppm	0.0971 ppm	0.3395 ppm	3.0808 ppm
Concentration per Run 3	0.0036 ppm	-0.0006 ppm	0.0013 ppm	0.0030 ppm	0.0987 ppm	0.3423 ppm	3.3513 ppm
Concentration RSD	6.6 %	24.1 %	10.3 %	15.2 %	0.9 %	4.0 %	5.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0236 ppm	0.0006 ppm	124.5422 ppm	-0.0005 ppm	0.0080 ppm	0.0011 ppm	0.0038 ppm
Concentration per Run 1	0.0233 ppm	0.0005 ppm	127.5909 ppm	-0.0005 ppm	0.0078 ppm	0.0017 ppm	0.0040 ppm
Concentration per Run 2	0.0237 ppm	0.0004 ppm	119.8668 ppm	-0.0007 ppm	0.0077 ppm	0.0007 ppm	0.0036 ppm
Concentration per Run 3	0.0237 ppm	0.0008 ppm	126.1689 ppm	-0.0003 ppm	0.0084 ppm	0.0009 ppm	0.0039 ppm
Concentration RSD	1.1 %	35.4 %	3.3 %	41.7 %	4.5 %	49.8 %	5.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.7466 ppm	0.0012 ppm	0.1002 ppm	0.0077 ppm	-0.0076 ppm	0.0003 ppm	0.0055 ppm
Concentration per Run 1	0.7490 ppm	0.0008 ppm	0.0986 ppm	0.0071 ppm	-0.0082 ppm	0.0004 ppm	0.0055 ppm
Concentration per Run 2	0.7533 ppm	0.0015 ppm	0.1007 ppm	0.0080 ppm	-0.0086 ppm	0.0004 ppm	0.0054 ppm
Concentration per Run 3	0.7374 ppm	0.0014 ppm	0.1014 ppm	0.0079 ppm	-0.0061 ppm	0.0002 ppm	0.0057 ppm
Concentration RSD	1.1 %	34.0 %	1.5 %	6.3 %	17.2 %	30.3 %	3.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	97.2266 %	89.0739 %	92.4887 %	98.7973 %	75.3975 %	89.5037 %	0.0007 ppm
Concentration per Run 1	97.4098 %	91.5748 %	92.1838 %	99.7638 %	75.4109 %	91.8811 %	0.0006 ppm
Concentration per Run 2	97.1905 %	92.2347 %	91.7690 %	98.4755 %	74.8540 %	92.3331 %	0.0008 ppm
Concentration per Run 3	97.0793 %	83.4120 %	93.5132 %	98.1526 %	75.9274 %	84.2968 %	0.0007 ppm
Concentration RSD	0.2 %	5.5 %	1.0 %	0.9 %	0.7 %	5.0 %	11.3 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2538381-04 WG2083757
 Analysis started at: 6/26/2025 12:40:36 PM
 Comments: <Comment>
 Rack: 1
 Vial: 28

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.9416 ppm	0.0470 ppm	0.0286 ppm	0.0245 ppm	0.0001 ppm	10.0456 ppm
Concentration per Run 1	-0.0001 ppm	0.9071 ppm	0.0475 ppm	0.0285 ppm	0.0240 ppm	0.0001 ppm	9.8270 ppm
Concentration per Run 2	-0.0001 ppm	0.9569 ppm	0.0461 ppm	0.0288 ppm	0.0247 ppm	0.0000 ppm	10.0710 ppm
Concentration per Run 3	0.0002 ppm	0.9610 ppm	0.0475 ppm	0.0284 ppm	0.0249 ppm	0.0001 ppm	10.2386 ppm
Concentration RSD	501.5 %	3.2 %	1.7 %	0.8 %	2.0 %	32.9 %	2.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0024 ppm	-0.0004 ppm	0.0013 ppm	0.0022 ppm	0.3838 ppm	0.3470 ppm	3.0466 ppm
Concentration per Run 1	0.0024 ppm	-0.0005 ppm	0.0012 ppm	0.0022 ppm	0.3714 ppm	0.3405 ppm	3.0422 ppm
Concentration per Run 2	0.0024 ppm	-0.0004 ppm	0.0015 ppm	0.0024 ppm	0.3862 ppm	0.3483 ppm	3.0593 ppm
Concentration per Run 3	0.0024 ppm	-0.0004 ppm	0.0013 ppm	0.0021 ppm	0.3938 ppm	0.3523 ppm	3.0385 ppm
Concentration RSD	0.7 %	18.1 %	10.0 %	6.2 %	3.0 %	1.7 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0160 ppm	0.0004 ppm	124.6524 ppm	-0.0003 ppm	0.0056 ppm	0.0007 ppm	0.0036 ppm
Concentration per Run 1	0.0156 ppm	0.0003 ppm	123.6310 ppm	-0.0002 ppm	0.0056 ppm	0.0009 ppm	0.0034 ppm
Concentration per Run 2	0.0161 ppm	0.0004 ppm	126.9559 ppm	-0.0003 ppm	0.0055 ppm	0.0013 ppm	0.0030 ppm
Concentration per Run 3	0.0163 ppm	0.0005 ppm	123.3702 ppm	-0.0006 ppm	0.0057 ppm	-0.0002 ppm	0.0045 ppm
Concentration RSD	2.2 %	17.0 %	1.6 %	58.5 %	2.3 %	117.0 %	21.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.1904 ppm	0.0015 ppm	0.1103 ppm	0.0284 ppm	-0.0075 ppm	0.0012 ppm	0.0052 ppm
Concentration per Run 1	2.2006 ppm	0.0009 ppm	0.1076 ppm	0.0282 ppm	-0.0081 ppm	0.0011 ppm	0.0052 ppm
Concentration per Run 2	2.1928 ppm	0.0021 ppm	0.1110 ppm	0.0290 ppm	-0.0070 ppm	0.0011 ppm	0.0052 ppm
Concentration per Run 3	2.1777 ppm	0.0017 ppm	0.1123 ppm	0.0279 ppm	-0.0075 ppm	0.0012 ppm	0.0052 ppm
Concentration RSD	0.5 %	38.4 %	2.2 %	1.9 %	6.9 %	4.2 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	97.2775 %	92.0052 %	92.4997 %	98.6864 %	75.0875 %	91.6505 %	0.0010 ppm
Concentration per Run 1	98.5624 %	92.3070 %	92.2952 %	100.6519 %	74.7487 %	92.0300 %	0.0010 ppm
Concentration per Run 2	96.9640 %	91.6681 %	92.7163 %	98.2557 %	75.3116 %	91.3017 %	0.0008 ppm
Concentration per Run 3	96.3061 %	92.0406 %	92.4878 %	97.1515 %	75.2021 %	91.6196 %	0.0013 ppm
Concentration RSD	1.2 %	0.3 %	0.2 %	1.8 %	0.4 %	0.4 %	22.1 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2538381-05 WG2083757

Analysis started at: 6/26/2025 12:47:19 PM

Comments: <Comment>

Rack: 1

Vial: 29

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.3777 ppm	0.0618 ppm	0.0508 ppm	0.0260 ppm	0.0000 ppm	10.8054 ppm
Concentration per Run 1	-0.0002 ppm	0.3654 ppm	0.0623 ppm	0.0511 ppm	0.0254 ppm	0.0000 ppm	10.5332 ppm
Concentration per Run 2	-0.0004 ppm	0.3866 ppm	0.0614 ppm	0.0504 ppm	0.0262 ppm	0.0000 ppm	10.9552 ppm
Concentration per Run 3	-0.0001 ppm	0.3813 ppm	0.0617 ppm	0.0509 ppm	0.0264 ppm	0.0000 ppm	10.9278 ppm
Concentration RSD	64.0 %	2.9 %	0.8 %	0.7 %	2.1 %	2,460.7 %	2.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0043 ppm	-0.0004 ppm	0.0016 ppm	0.0034 ppm	0.1429 ppm	0.3889 ppm	2.6634 ppm
Concentration per Run 1	0.0042 ppm	-0.0004 ppm	0.0016 ppm	0.0034 ppm	0.1378 ppm	0.3730 ppm	2.6606 ppm
Concentration per Run 2	0.0044 ppm	-0.0004 ppm	0.0018 ppm	0.0033 ppm	0.1461 ppm	0.3934 ppm	2.6720 ppm
Concentration per Run 3	0.0043 ppm	-0.0004 ppm	0.0015 ppm	0.0034 ppm	0.1449 ppm	0.4004 ppm	2.6577 ppm
Concentration RSD	2.2 %	2.1 %	11.0 %	2.8 %	3.1 %	3.7 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0182 ppm	0.0005 ppm	134.0153 ppm	-0.0005 ppm	0.0113 ppm	0.0009 ppm	0.0039 ppm
Concentration per Run 1	0.0177 ppm	0.0006 ppm	131.3809 ppm	-0.0004 ppm	0.0113 ppm	0.0010 ppm	0.0036 ppm
Concentration per Run 2	0.0184 ppm	0.0004 ppm	141.3169 ppm	-0.0006 ppm	0.0115 ppm	0.0014 ppm	0.0051 ppm
Concentration per Run 3	0.0186 ppm	0.0005 ppm	129.3482 ppm	-0.0005 ppm	0.0111 ppm	0.0003 ppm	0.0029 ppm
Concentration RSD	2.6 %	20.5 %	4.8 %	21.4 %	1.8 %	65.0 %	28.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.8580 ppm	0.0023 ppm	0.1410 ppm	0.0091 ppm	-0.0078 ppm	0.0006 ppm	0.0073 ppm
Concentration per Run 1	0.8636 ppm	0.0022 ppm	0.1374 ppm	0.0091 ppm	-0.0074 ppm	0.0006 ppm	0.0074 ppm
Concentration per Run 2	0.8522 ppm	0.0026 ppm	0.1424 ppm	0.0092 ppm	-0.0084 ppm	0.0006 ppm	0.0071 ppm
Concentration per Run 3	0.8581 ppm	0.0020 ppm	0.1431 ppm	0.0089 ppm	-0.0075 ppm	0.0005 ppm	0.0073 ppm
Concentration RSD	0.7 %	14.1 %	2.2 %	1.5 %	7.5 %	10.9 %	1.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	97.0257 %	91.9946 %	91.6255 %	98.9746 %	74.6173 %	91.4908 %	0.0008 ppm
Concentration per Run 1	98.4019 %	92.1103 %	91.9665 %	101.4375 %	74.8540 %	91.6243 %	0.0008 ppm
Concentration per Run 2	96.3746 %	92.0752 %	91.9652 %	97.9742 %	74.9349 %	91.5742 %	0.0007 ppm
Concentration per Run 3	96.3007 %	91.7984 %	90.9447 %	97.5122 %	74.0631 %	91.2738 %	0.0008 ppm
Concentration RSD	1.2 %	0.2 %	0.6 %	2.2 %	0.6 %	0.2 %	3.4 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2538381-06 WG2083757
 Analysis started at: 6/26/2025 12:54:01 PM
 Comments: <Comment>
 Rack: 1
 Vial: 30

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.6297 ppm	0.0382 ppm	0.0588 ppm	0.0255 ppm	0.0000 ppm	8.7777 ppm
Concentration per Run 1	0.0001 ppm	0.6162 ppm	0.0375 ppm	0.0587 ppm	0.0252 ppm	0.0000 ppm	8.4657 ppm
Concentration per Run 2	-0.0003 ppm	0.6370 ppm	0.0378 ppm	0.0571 ppm	0.0256 ppm	0.0000 ppm	8.9299 ppm
Concentration per Run 3	0.0000 ppm	0.6358 ppm	0.0391 ppm	0.0605 ppm	0.0258 ppm	0.0000 ppm	8.9376 ppm
Concentration RSD	329.4 %	1.9 %	2.3 %	2.9 %	1.1 %	81.9 %	3.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0026 ppm	-0.0004 ppm	0.0016 ppm	0.0030 ppm	0.2046 ppm	0.5422 ppm	2.2249 ppm
Concentration per Run 1	0.0027 ppm	-0.0005 ppm	0.0015 ppm	0.0031 ppm	0.1962 ppm	0.5472 ppm	2.2329 ppm
Concentration per Run 2	0.0025 ppm	-0.0003 ppm	0.0015 ppm	0.0027 ppm	0.2086 ppm	0.5279 ppm	2.1649 ppm
Concentration per Run 3	0.0027 ppm	-0.0005 ppm	0.0016 ppm	0.0032 ppm	0.2090 ppm	0.5514 ppm	2.2769 ppm
Concentration RSD	4.0 %	23.4 %	3.1 %	9.0 %	3.6 %	2.3 %	2.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0162 ppm	0.0004 ppm	124.9367 ppm	-0.0003 ppm	0.0075 ppm	0.0007 ppm	0.0028 ppm
Concentration per Run 1	0.0160 ppm	0.0005 ppm	119.0823 ppm	-0.0005 ppm	0.0073 ppm	0.0002 ppm	0.0022 ppm
Concentration per Run 2	0.0162 ppm	0.0003 ppm	127.2105 ppm	-0.0002 ppm	0.0069 ppm	0.0012 ppm	0.0024 ppm
Concentration per Run 3	0.0165 ppm	0.0004 ppm	128.5173 ppm	-0.0002 ppm	0.0083 ppm	0.0006 ppm	0.0039 ppm
Concentration RSD	1.6 %	19.6 %	4.1 %	48.7 %	9.6 %	73.4 %	32.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.3053 ppm	0.0016 ppm	0.1070 ppm	0.0170 ppm	-0.0080 ppm	0.0007 ppm	0.0064 ppm
Concentration per Run 1	1.3165 ppm	0.0008 ppm	0.1053 ppm	0.0169 ppm	-0.0082 ppm	0.0008 ppm	0.0063 ppm
Concentration per Run 2	1.3033 ppm	0.0023 ppm	0.1072 ppm	0.0164 ppm	-0.0069 ppm	0.0008 ppm	0.0065 ppm
Concentration per Run 3	1.2960 ppm	0.0016 ppm	0.1084 ppm	0.0177 ppm	-0.0090 ppm	0.0006 ppm	0.0063 ppm
Concentration RSD	0.8 %	47.0 %	1.4 %	4.0 %	13.2 %	10.4 %	1.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	97.9079 %	93.5010 %	93.6094 %	99.8489 %	76.3935 %	92.5675 %	0.0009 ppm
Concentration per Run 1	99.3165 %	93.1513 %	93.8618 %	101.9367 %	76.2545 %	92.3692 %	0.0007 ppm
Concentration per Run 2	97.2419 %	95.7102 %	93.4497 %	98.9284 %	76.5840 %	95.3031 %	0.0009 ppm
Concentration per Run 3	97.1652 %	91.6414 %	93.5167 %	98.6814 %	76.3420 %	90.0302 %	0.0011 ppm
Concentration RSD	1.2 %	2.2 %	0.2 %	1.8 %	0.2 %	2.9 %	25.1 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: CCV
Analysis started at: 6/26/2025 1:00:44 PM
Comments: <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5070 ppm	0.4979 ppm	0.4645 ppm	0.5008 ppm	0.4912 ppm	0.4951 ppm	0.5081 ppm
Concentration per Run 1	0.5081 ppm	0.4935 ppm	0.4661 ppm	0.5029 ppm	0.4827 ppm	0.4821 ppm	0.4909 ppm
Concentration per Run 2	0.5073 ppm	0.4992 ppm	0.4663 ppm	0.5015 ppm	0.4935 ppm	0.5009 ppm	0.5156 ppm
Concentration per Run 3	0.5057 ppm	0.5012 ppm	0.4612 ppm	0.4979 ppm	0.4973 ppm	0.5024 ppm	0.5178 ppm
Recovery Percentage 1	101.404 %	99.589 %	92.906 %	100.151 %	98.234 %	99.026 %	101.623 %
Concentration RSD	0.2 %	0.8 %	0.6 %	0.5 %	1.5 %	2.3 %	2.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4835 ppm	0.5118 ppm	0.5167 ppm	0.4921 ppm	0.4970 ppm	5.2860 ppm	0.5175 ppm
Concentration per Run 1	0.4862 ppm	0.5151 ppm	0.5162 ppm	0.4947 ppm	0.4848 ppm	5.2950 ppm	0.5188 ppm
Concentration per Run 2	0.4859 ppm	0.5134 ppm	0.5200 ppm	0.4898 ppm	0.5042 ppm	5.2136 ppm	0.5195 ppm
Concentration per Run 3	0.4785 ppm	0.5069 ppm	0.5139 ppm	0.4919 ppm	0.5021 ppm	5.3495 ppm	0.5144 ppm
Recovery Percentage 1	96.707 %	102.361 %	103.340 %	98.426 %	99.404 %	105.721 %	103.509 %
Concentration RSD	0.9 %	0.8 %	0.6 %	0.5 %	2.1 %	1.3 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5039 ppm	0.4897 ppm	9.9570 ppm	0.4746 ppm	0.4847 ppm	0.4767 ppm	0.4970 ppm
Concentration per Run 1	0.4895 ppm	0.4924 ppm	9.9720 ppm	0.4783 ppm	0.4886 ppm	0.4804 ppm	0.4971 ppm
Concentration per Run 2	0.5105 ppm	0.4913 ppm	9.8254 ppm	0.4749 ppm	0.4846 ppm	0.4759 ppm	0.4997 ppm
Concentration per Run 3	0.5116 ppm	0.4855 ppm	10.0736 ppm	0.4705 ppm	0.4809 ppm	0.4738 ppm	0.4943 ppm
Recovery Percentage 1	100.777 %	97.945 %	99.570 %	94.910 %	96.945 %	95.338 %	99.408 %
Concentration RSD	2.5 %	0.8 %	1.3 %	0.8 %	0.8 %	0.7 %	0.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.1807 ppm	0.4626 ppm	0.5156 ppm	0.5078 ppm	0.4867 ppm	0.5036 ppm	0.5068 ppm
Concentration per Run 1	5.2269 ppm	0.4648 ppm	0.5056 ppm	0.5077 ppm	0.4907 ppm	0.5040 ppm	0.5083 ppm
Concentration per Run 2	5.1710 ppm	0.4639 ppm	0.5192 ppm	0.5103 ppm	0.4844 ppm	0.5062 ppm	0.5083 ppm
Concentration per Run 3	5.1440 ppm	0.4591 ppm	0.5220 ppm	0.5054 ppm	0.4850 ppm	0.5008 ppm	0.5038 ppm
Recovery Percentage 1	98.679 %	92.521 %	103.117 %	101.558 %	97.338 %	100.728 %	101.357 %
Concentration RSD	0.8 %	0.7 %	1.7 %	0.5 %	0.7 %	0.5 %	0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.6050 %	99.3868 %	98.6212 %	102.1899 %	93.1368 %	99.4592 %	0.5228 ppm
Concentration per Run 1	104.1070 %	99.5902 %	98.4366 %	104.7271 %	92.4239 %	98.9019 %	0.5247 ppm
Concentration per Run 2	100.3792 %	100.1205 %	98.5110 %	101.1351 %	93.0981 %	99.3417 %	0.5154 ppm
Concentration per Run 3	100.3288 %	98.4497 %	98.9160 %	100.7077 %	93.8883 %	100.1338 %	0.5282 ppm
Recovery Percentage 1							104.554 %
Concentration RSD	2.1 %	0.9 %	0.3 %	2.2 %	0.8 %	0.6 %	1.3 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: CCB
Analysis started at: 6/26/2025 1:07:04 PM
Comments: <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0010 ppm	-0.0005 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 1	0.0000 ppm	0.0005 ppm	-0.0001 ppm	0.0007 ppm	0.0000 ppm	0.0000 ppm	-0.0012 ppm
Concentration per Run 2	-0.0002 ppm	0.0003 ppm	-0.0011 ppm	0.0011 ppm	0.0000 ppm	0.0000 ppm	0.0010 ppm
Concentration per Run 3	0.0000 ppm	0.0020 ppm	-0.0002 ppm	0.0013 ppm	0.0000 ppm	0.0000 ppm	0.0002 ppm
Recovery Percentage 1	-0.786 %	0.950 %	-9.499 %	3.415 %	0.296 %	0.827 %	-0.022 %
Concentration RSD	187.0 %	98.2 %	122.3 %	27.8 %	15.6 %	18.0 %	5,005.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0005 ppm	0.0004 ppm	0.0036 ppm	0.0006 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0005 ppm	0.0005 ppm	0.0098 ppm	0.0003 ppm
Concentration per Run 2	0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0004 ppm	0.0010 ppm	-0.0007 ppm	0.0023 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0005 ppm	-0.0003 ppm	0.0016 ppm	-0.0007 ppm
Recovery Percentage 1	0.934 %	-0.203 %	1.599 %	4.788 %	0.822 %	0.143 %	0.625 %
Concentration RSD	152.8 %	265.9 %	57.7 %	12.6 %	153.5 %	155.2 %	240.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0007 ppm	0.0128 ppm	0.0001 ppm	-0.0002 ppm	0.0002 ppm	0.0009 ppm
Concentration per Run 1	0.0000 ppm	0.0007 ppm	0.0117 ppm	0.0001 ppm	-0.0005 ppm	0.0003 ppm	0.0020 ppm
Concentration per Run 2	0.0000 ppm	0.0007 ppm	0.0112 ppm	0.0001 ppm	0.0003 ppm	0.0006 ppm	0.0010 ppm
Concentration per Run 3	0.0000 ppm	0.0008 ppm	0.0156 ppm	0.0000 ppm	-0.0003 ppm	-0.0002 ppm	-0.0002 ppm
Recovery Percentage 1	-0.057 %	1.472 %	0.642 %	0.392 %	-1.813 %	0.493 %	9.113 %
Concentration RSD	352.9 %	12.2 %	18.9 %	62.1 %	214.4 %	169.2 %	121.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0000 ppm	0.0003 ppm	0.0000 ppm	-0.0001 ppm	-0.0003 ppm	0.0001 ppm	-0.0001 ppm
Concentration per Run 1	0.0002 ppm	0.0000 ppm	0.0000 ppm	-0.0003 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 2	-0.0003 ppm	0.0007 ppm	-0.0001 ppm	-0.0001 ppm	-0.0002 ppm	0.0002 ppm	-0.0001 ppm
Concentration per Run 3	0.0001 ppm	0.0003 ppm	0.0001 ppm	0.0001 ppm	-0.0004 ppm	0.0000 ppm	-0.0001 ppm
Recovery Percentage 1	0.004 %	0.644 %	0.101 %	-0.696 %	-1.347 %	0.701 %	-1.992 %
Concentration RSD	1,322.4 %	104.4 %	705.2 %	274.8 %	28.6 %	116.7 %	47.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	102.3415 %	100.7163 %	98.5233 %	100.3463 %	99.6506 %	98.9635 %	0.0001 ppm
Concentration per Run 1	104.3968 %	100.5754 %	98.5202 %	101.6252 %	99.5771 %	98.7500 %	0.0002 ppm
Concentration per Run 2	102.2556 %	100.7574 %	98.7139 %	100.3177 %	100.0401 %	99.0240 %	-0.0002 ppm
Concentration per Run 3	100.3719 %	100.8162 %	98.3357 %	99.0959 %	99.3347 %	99.1164 %	0.0004 ppm
Recovery Percentage 1							1.164 %
Concentration RSD	2.0 %	0.1 %	0.2 %	1.3 %	0.4 %	0.2 %	288.8 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2538381-07 WG2083757

Analysis started at: 6/26/2025 1:26:36 PM

Comments: <Comment>

Rack: 1

Vial: 31

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0789 ppm	0.0300 ppm	0.0372 ppm	0.0162 ppm	0.0000 ppm	7.4780 ppm
Concentration per Run 1	0.0000 ppm	0.0757 ppm	0.0305 ppm	0.0372 ppm	0.0160 ppm	0.0000 ppm	7.3245 ppm
Concentration per Run 2	-0.0001 ppm	0.0805 ppm	0.0302 ppm	0.0369 ppm	0.0163 ppm	0.0000 ppm	7.5554 ppm
Concentration per Run 3	0.0001 ppm	0.0807 ppm	0.0293 ppm	0.0374 ppm	0.0163 ppm	0.0000 ppm	7.5541 ppm
Concentration RSD	1,551.9 %	3.6 %	2.0 %	0.7 %	1.1 %	80.2 %	1.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0057 ppm	-0.0004 ppm	0.0039 ppm	0.0054 ppm	0.0658 ppm	0.2602 ppm	1.8589 ppm
Concentration per Run 1	0.0058 ppm	-0.0004 ppm	0.0038 ppm	0.0052 ppm	0.0639 ppm	0.2593 ppm	1.8527 ppm
Concentration per Run 2	0.0057 ppm	-0.0003 ppm	0.0041 ppm	0.0052 ppm	0.0659 ppm	0.2582 ppm	1.8622 ppm
Concentration per Run 3	0.0058 ppm	-0.0005 ppm	0.0038 ppm	0.0057 ppm	0.0676 ppm	0.2631 ppm	1.8617 ppm
Concentration RSD	0.7 %	23.5 %	5.2 %	4.7 %	2.8 %	1.0 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0344 ppm	0.0004 ppm	124.7557 ppm	0.0000 ppm	0.0144 ppm	0.0000 ppm	0.0034 ppm
Concentration per Run 1	0.0339 ppm	0.0003 ppm	117.6358 ppm	-0.0002 ppm	0.0144 ppm	0.0002 ppm	0.0021 ppm
Concentration per Run 2	0.0347 ppm	0.0003 ppm	127.8582 ppm	0.0002 ppm	0.0145 ppm	0.0004 ppm	0.0036 ppm
Concentration per Run 3	0.0345 ppm	0.0005 ppm	128.7732 ppm	0.0000 ppm	0.0143 ppm	-0.0006 ppm	0.0046 ppm
Concentration RSD	1.2 %	32.8 %	5.0 %	1,338.4 %	0.8 %	6,823.4 %	38.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.2321 ppm	0.0014 ppm	0.0766 ppm	0.0028 ppm	-0.0077 ppm	0.0001 ppm	0.0161 ppm
Concentration per Run 1	0.2323 ppm	0.0010 ppm	0.0752 ppm	0.0028 ppm	-0.0073 ppm	0.0001 ppm	0.0163 ppm
Concentration per Run 2	0.2294 ppm	0.0016 ppm	0.0771 ppm	0.0028 ppm	-0.0079 ppm	0.0001 ppm	0.0160 ppm
Concentration per Run 3	0.2345 ppm	0.0017 ppm	0.0774 ppm	0.0029 ppm	-0.0078 ppm	0.0002 ppm	0.0160 ppm
Concentration RSD	1.1 %	27.4 %	1.5 %	2.2 %	4.4 %	20.1 %	1.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	98.7436 %	92.5243 %	91.9282 %	98.8720 %	75.9266 %	91.6888 %	0.0004 ppm
Concentration per Run 1	99.5714 %	92.8083 %	92.3997 %	100.5856 %	76.1993 %	91.8523 %	0.0004 ppm
Concentration per Run 2	98.4511 %	92.7023 %	91.6356 %	98.1439 %	75.9825 %	91.9976 %	0.0006 ppm
Concentration per Run 3	98.2082 %	92.0623 %	91.7493 %	97.8864 %	75.5978 %	91.2163 %	0.0003 ppm
Concentration RSD	0.7 %	0.4 %	0.4 %	1.5 %	0.4 %	0.5 %	33.4 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2538381-08 WG2083757

Analysis started at: 6/26/2025 1:33:21 PM

Comments: <Comment>

Rack: 1

Vial: 32

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.1494 ppm	0.0325 ppm	0.0472 ppm	0.0227 ppm	0.0000 ppm	10.8992 ppm
Concentration per Run 1	-0.0001 ppm	0.1471 ppm	0.0319 ppm	0.0470 ppm	0.0221 ppm	0.0000 ppm	10.5897 ppm
Concentration per Run 2	-0.0002 ppm	0.1509 ppm	0.0357 ppm	0.0472 ppm	0.0228 ppm	0.0000 ppm	11.0382 ppm
Concentration per Run 3	0.0001 ppm	0.1501 ppm	0.0300 ppm	0.0475 ppm	0.0231 ppm	0.0000 ppm	11.0698 ppm
Concentration RSD	148.3 %	1.4 %	8.9 %	0.5 %	2.1 %	79.4 %	2.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0065 ppm	-0.0003 ppm	0.0025 ppm	0.0047 ppm	0.0860 ppm	0.2444 ppm	3.2907 ppm
Concentration per Run 1	0.0065 ppm	-0.0003 ppm	0.0027 ppm	0.0046 ppm	0.0806 ppm	0.2377 ppm	3.2915 ppm
Concentration per Run 2	0.0065 ppm	-0.0004 ppm	0.0026 ppm	0.0047 ppm	0.0856 ppm	0.2502 ppm	3.2802 ppm
Concentration per Run 3	0.0065 ppm	-0.0003 ppm	0.0022 ppm	0.0048 ppm	0.0919 ppm	0.2452 ppm	3.3004 ppm
Concentration RSD	0.0 %	12.1 %	10.5 %	2.0 %	6.6 %	2.6 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0281 ppm	0.0003 ppm	125.4898 ppm	-0.0001 ppm	0.0192 ppm	0.0005 ppm	0.0039 ppm
Concentration per Run 1	0.0273 ppm	0.0004 ppm	120.6546 ppm	0.0000 ppm	0.0193 ppm	0.0002 ppm	0.0028 ppm
Concentration per Run 2	0.0283 ppm	0.0005 ppm	124.1367 ppm	0.0000 ppm	0.0193 ppm	0.0007 ppm	0.0047 ppm
Concentration per Run 3	0.0288 ppm	0.0001 ppm	131.6781 ppm	-0.0003 ppm	0.0189 ppm	0.0005 ppm	0.0042 ppm
Concentration RSD	2.7 %	54.5 %	4.5 %	158.9 %	1.2 %	59.5 %	24.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.4562 ppm	0.0008 ppm	0.0938 ppm	0.0046 ppm	-0.0067 ppm	0.0002 ppm	0.0132 ppm
Concentration per Run 1	0.4586 ppm	0.0011 ppm	0.0918 ppm	0.0043 ppm	-0.0055 ppm	0.0003 ppm	0.0132 ppm
Concentration per Run 2	0.4586 ppm	0.0007 ppm	0.0944 ppm	0.0047 ppm	-0.0087 ppm	0.0003 ppm	0.0132 ppm
Concentration per Run 3	0.4514 ppm	0.0006 ppm	0.0952 ppm	0.0049 ppm	-0.0060 ppm	0.0000 ppm	0.0131 ppm
Concentration RSD	0.9 %	34.4 %	1.9 %	5.7 %	25.5 %	78.9 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	98.0861 %	91.4517 %	91.7079 %	99.0338 %	75.4547 %	91.0682 %	0.0004 ppm
Concentration per Run 1	99.5667 %	91.5725 %	91.9942 %	101.1721 %	75.6029 %	91.0968 %	0.0006 ppm
Concentration per Run 2	97.2955 %	91.7322 %	91.3281 %	98.1806 %	75.0910 %	91.3635 %	0.0003 ppm
Concentration per Run 3	97.3963 %	91.0505 %	91.8014 %	97.7488 %	75.6702 %	90.7443 %	0.0003 ppm
Concentration RSD	1.3 %	0.4 %	0.4 %	1.9 %	0.4 %	0.3 %	43.1 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imex

Sample: L2538381-09 WG2083757

Analysis started at: 6/26/2025 1:40:06 PM

Comments: <Comment>

Rack: 1

Vial: 33

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0810 ppm	0.0031 ppm	0.0823 ppm	0.0169 ppm	0.0000 ppm	7.2679 ppm
Concentration per Run 1	0.0000 ppm	0.0783 ppm	0.0042 ppm	0.0843 ppm	0.0168 ppm	0.0000 ppm	7.0718 ppm
Concentration per Run 2	0.0000 ppm	0.0826 ppm	0.0029 ppm	0.0809 ppm	0.0170 ppm	0.0001 ppm	7.3611 ppm
Concentration per Run 3	0.0000 ppm	0.0820 ppm	0.0022 ppm	0.0819 ppm	0.0171 ppm	0.0000 ppm	7.3709 ppm
Concentration RSD	50.4 %	2.9 %	32.2 %	2.1 %	0.9 %	157.2 %	2.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0014 ppm	-0.0002 ppm	0.0040 ppm	0.0033 ppm	0.0708 ppm	0.1881 ppm	1.8939 ppm
Concentration per Run 1	0.0014 ppm	-0.0002 ppm	0.0038 ppm	0.0037 ppm	0.0690 ppm	0.1914 ppm	1.9021 ppm
Concentration per Run 2	0.0013 ppm	-0.0002 ppm	0.0041 ppm	0.0030 ppm	0.0710 ppm	0.1874 ppm	1.8852 ppm
Concentration per Run 3	0.0014 ppm	-0.0003 ppm	0.0042 ppm	0.0032 ppm	0.0725 ppm	0.1855 ppm	1.8944 ppm
Concentration RSD	3.7 %	32.0 %	4.5 %	10.5 %	2.5 %	1.6 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0794 ppm	0.0006 ppm	125.4430 ppm	0.0008 ppm	0.0002 ppm	0.0001 ppm	0.0026 ppm
Concentration per Run 1	0.0775 ppm	0.0007 ppm	124.7023 ppm	0.0010 ppm	0.0007 ppm	-0.0006 ppm	0.0021 ppm
Concentration per Run 2	0.0799 ppm	0.0005 ppm	126.0253 ppm	0.0008 ppm	-0.0001 ppm	0.0003 ppm	0.0033 ppm
Concentration per Run 3	0.0809 ppm	0.0005 ppm	125.6016 ppm	0.0007 ppm	0.0001 ppm	0.0005 ppm	0.0025 ppm
Concentration RSD	2.2 %	14.6 %	0.5 %	14.5 %	170.6 %	1,141.8 %	23.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.3827 ppm	0.0014 ppm	0.0680 ppm	0.0029 ppm	-0.0072 ppm	0.0000 ppm	0.0098 ppm
Concentration per Run 1	0.3870 ppm	0.0016 ppm	0.0673 ppm	0.0029 ppm	-0.0074 ppm	-0.0001 ppm	0.0099 ppm
Concentration per Run 2	0.3808 ppm	0.0018 ppm	0.0683 ppm	0.0027 ppm	-0.0066 ppm	0.0001 ppm	0.0097 ppm
Concentration per Run 3	0.3803 ppm	0.0007 ppm	0.0685 ppm	0.0029 ppm	-0.0076 ppm	0.0001 ppm	0.0097 ppm
Concentration RSD	1.0 %	43.6 %	1.0 %	4.1 %	7.4 %	199.6 %	1.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	98.8469 %	92.3945 %	92.3216 %	99.6487 %	76.4458 %	91.9916 %	0.0005 ppm
Concentration per Run 1	100.2112 %	91.4646 %	92.7602 %	101.6111 %	76.6257 %	90.6122 %	0.0006 ppm
Concentration per Run 2	98.3457 %	93.3559 %	91.6927 %	98.9654 %	76.0646 %	93.2203 %	0.0004 ppm
Concentration per Run 3	97.9839 %	92.3630 %	92.5119 %	98.3696 %	76.6472 %	92.1423 %	0.0004 ppm
Concentration RSD	1.2 %	1.0 %	0.6 %	1.7 %	0.4 %	1.4 %	28.5 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2538846-02 WG2083757

Analysis started at: 6/26/2025 1:46:51 PM

Comments: <Comment>

Rack: 1

Vial: 34

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0656 ppm	-0.0011 ppm	0.0174 ppm	0.0126 ppm	0.0000 ppm	30.0569 ppm
Concentration per Run 1	-0.0002 ppm	0.0652 ppm	-0.0005 ppm	0.0173 ppm	0.0124 ppm	0.0001 ppm	29.7385 ppm
Concentration per Run 2	-0.0001 ppm	0.0666 ppm	0.0000 ppm	0.0175 ppm	0.0128 ppm	0.0000 ppm	29.9968 ppm
Concentration per Run 3	0.0000 ppm	0.0650 ppm	-0.0027 ppm	0.0175 ppm	0.0127 ppm	0.0001 ppm	30.4355 ppm
Concentration RSD	107.8 %	1.4 %	132.9 %	0.7 %	1.6 %	31.2 %	1.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0004 ppm	-0.0001 ppm	0.0004 ppm	0.0016 ppm	0.0393 ppm	0.1405 ppm	1.5709 ppm
Concentration per Run 1	0.0004 ppm	-0.0001 ppm	0.0002 ppm	0.0016 ppm	0.0388 ppm	0.1446 ppm	1.5646 ppm
Concentration per Run 2	0.0004 ppm	-0.0002 ppm	0.0005 ppm	0.0015 ppm	0.0395 ppm	0.1404 ppm	1.5769 ppm
Concentration per Run 3	0.0004 ppm	-0.0001 ppm	0.0005 ppm	0.0017 ppm	0.0397 ppm	0.1364 ppm	1.5711 ppm
Concentration RSD	1.6 %	40.9 %	47.4 %	7.4 %	1.2 %	2.9 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0410 ppm	0.0006 ppm	130.9866 ppm	-0.0002 ppm	-0.0005 ppm	0.0005 ppm	0.0031 ppm
Concentration per Run 1	0.0408 ppm	0.0007 ppm	131.2581 ppm	-0.0001 ppm	-0.0008 ppm	0.0010 ppm	0.0010 ppm
Concentration per Run 2	0.0410 ppm	0.0006 ppm	128.1537 ppm	-0.0002 ppm	-0.0002 ppm	0.0000 ppm	0.0041 ppm
Concentration per Run 3	0.0413 ppm	0.0005 ppm	133.5480 ppm	-0.0002 ppm	-0.0006 ppm	0.0006 ppm	0.0041 ppm
Concentration RSD	0.6 %	12.3 %	2.1 %	14.4 %	54.5 %	87.1 %	58.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.6393 ppm	0.0016 ppm	0.0901 ppm	0.0003 ppm	-0.0076 ppm	0.0001 ppm	0.0041 ppm
Concentration per Run 1	1.6374 ppm	0.0016 ppm	0.0886 ppm	0.0005 ppm	-0.0073 ppm	0.0002 ppm	0.0041 ppm
Concentration per Run 2	1.6409 ppm	0.0016 ppm	0.0910 ppm	0.0003 ppm	-0.0063 ppm	0.0001 ppm	0.0041 ppm
Concentration per Run 3	1.6397 ppm	0.0016 ppm	0.0907 ppm	0.0000 ppm	-0.0093 ppm	0.0000 ppm	0.0041 ppm
Concentration RSD	0.1 %	1.7 %	1.4 %	108.0 %	19.9 %	95.6 %	0.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	97.9921 %	91.6665 %	90.6277 %	98.6746 %	74.5862 %	90.8065 %	0.0004 ppm
Concentration per Run 1	98.3243 %	91.5972 %	90.6380 %	99.6098 %	74.6415 %	90.7229 %	0.0004 ppm
Concentration per Run 2	98.3137 %	91.7020 %	90.1638 %	98.6780 %	74.3371 %	90.9985 %	0.0000 ppm
Concentration per Run 3	97.3385 %	91.7003 %	91.0813 %	97.7359 %	74.7800 %	90.6979 %	0.0006 ppm
Concentration RSD	0.6 %	0.1 %	0.5 %	0.9 %	0.3 %	0.2 %	85.9 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: CCV
Analysis started at: 6/26/2025 1:53:36 PM
Comments: <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5043 ppm	0.4961 ppm	0.4563 ppm	0.5035 ppm	0.4864 ppm	0.4902 ppm	0.5028 ppm
Concentration per Run 1	0.5042 ppm	0.4853 ppm	0.4535 ppm	0.5032 ppm	0.4755 ppm	0.4794 ppm	0.4930 ppm
Concentration per Run 2	0.5042 ppm	0.5053 ppm	0.4581 ppm	0.5029 ppm	0.4920 ppm	0.4938 ppm	0.5049 ppm
Concentration per Run 3	0.5044 ppm	0.4976 ppm	0.4573 ppm	0.5044 ppm	0.4916 ppm	0.4976 ppm	0.5104 ppm
Recovery Percentage 1	100.858 %	99.216 %	91.259 %	100.706 %	97.272 %	98.050 %	100.556 %
Concentration RSD	0.0 %	2.0 %	0.5 %	0.2 %	1.9 %	2.0 %	1.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4756 ppm	0.5115 ppm	0.5203 ppm	0.4920 ppm	0.4891 ppm	5.2657 ppm	0.5155 ppm
Concentration per Run 1	0.4718 ppm	0.5090 ppm	0.5223 ppm	0.4904 ppm	0.4788 ppm	5.1435 ppm	0.5147 ppm
Concentration per Run 2	0.4761 ppm	0.5117 ppm	0.5167 ppm	0.4928 ppm	0.4931 ppm	5.4235 ppm	0.5128 ppm
Concentration per Run 3	0.4787 ppm	0.5137 ppm	0.5219 ppm	0.4927 ppm	0.4955 ppm	5.2303 ppm	0.5190 ppm
Recovery Percentage 1	95.111 %	102.292 %	104.066 %	98.391 %	97.821 %	105.314 %	103.097 %
Concentration RSD	0.7 %	0.5 %	0.6 %	0.3 %	1.8 %	2.7 %	0.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4991 ppm	0.4866 ppm	9.9603 ppm	0.4625 ppm	0.4766 ppm	0.4722 ppm	0.4955 ppm
Concentration per Run 1	0.4887 ppm	0.4846 ppm	9.7235 ppm	0.4561 ppm	0.4731 ppm	0.4699 ppm	0.4933 ppm
Concentration per Run 2	0.5039 ppm	0.4863 ppm	10.2371 ppm	0.4657 ppm	0.4793 ppm	0.4731 ppm	0.4952 ppm
Concentration per Run 3	0.5046 ppm	0.4890 ppm	9.9203 ppm	0.4657 ppm	0.4775 ppm	0.4736 ppm	0.4980 ppm
Recovery Percentage 1	99.812 %	97.329 %	99.603 %	92.499 %	95.324 %	94.435 %	99.101 %
Concentration RSD	1.8 %	0.5 %	2.6 %	1.2 %	0.7 %	0.4 %	0.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.1166 ppm	0.4517 ppm	0.5174 ppm	0.5062 ppm	0.4756 ppm	0.4999 ppm	0.5031 ppm
Concentration per Run 1	5.0670 ppm	0.4461 ppm	0.5059 ppm	0.5076 ppm	0.4719 ppm	0.5008 ppm	0.4962 ppm
Concentration per Run 2	5.1475 ppm	0.4539 ppm	0.5231 ppm	0.5041 ppm	0.4779 ppm	0.4985 ppm	0.5070 ppm
Concentration per Run 3	5.1353 ppm	0.4551 ppm	0.5232 ppm	0.5071 ppm	0.4770 ppm	0.5002 ppm	0.5060 ppm
Recovery Percentage 1	97.460 %	90.338 %	103.479 %	101.248 %	95.126 %	99.973 %	100.611 %
Concentration RSD	0.8 %	1.1 %	1.9 %	0.4 %	0.7 %	0.2 %	1.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.8666 %	99.6797 %	98.7321 %	102.3542 %	94.1836 %	99.0937 %	0.5198 ppm
Concentration per Run 1	104.1583 %	99.5562 %	99.2310 %	104.4798 %	94.8318 %	99.0065 %	0.5070 ppm
Concentration per Run 2	100.6306 %	99.9004 %	98.5276 %	101.5192 %	93.8564 %	99.3508 %	0.5339 ppm
Concentration per Run 3	100.8107 %	99.5825 %	98.4378 %	101.0638 %	93.8627 %	98.9237 %	0.5186 ppm
Recovery Percentage 1							103.969 %
Concentration RSD	2.0 %	0.2 %	0.4 %	1.8 %	0.6 %	0.2 %	2.6 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: CCB
Analysis started at: 6/26/2025 1:59:56 PM
Comments: <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0013 ppm	0.0004 ppm	0.0008 ppm	0.0000 ppm	0.0000 ppm	0.0008 ppm
Concentration per Run 1	-0.0001 ppm	0.0031 ppm	0.0000 ppm	0.0009 ppm	0.0000 ppm	0.0000 ppm	-0.0021 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0007 ppm	0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0032 ppm
Concentration per Run 3	0.0000 ppm	0.0008 ppm	0.0004 ppm	0.0009 ppm	0.0000 ppm	0.0000 ppm	0.0015 ppm
Recovery Percentage 1	-0.166 %	1.303 %	7.036 %	2.669 %	0.124 %	0.061 %	0.848 %
Concentration RSD	679.7 %	121.5 %	95.1 %	15.0 %	120.9 %	453.1 %	316.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0005 ppm	0.0004 ppm	0.0062 ppm	0.0002 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0006 ppm	0.0001 ppm	0.0021 ppm	0.0003 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0003 ppm	0.0004 ppm	0.0052 ppm	0.0010 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0007 ppm	0.0007 ppm	0.0112 ppm	-0.0009 ppm
Recovery Percentage 1	0.675 %	-0.031 %	-0.102 %	5.363 %	0.819 %	0.246 %	0.158 %
Concentration RSD	83.5 %	1,878.8 %	1,373.4 %	37.1 %	70.3 %	74.5 %	623.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0007 ppm	0.0116 ppm	0.0000 ppm	-0.0002 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 1	0.0000 ppm	0.0007 ppm	0.0114 ppm	0.0001 ppm	-0.0004 ppm	-0.0003 ppm	0.0008 ppm
Concentration per Run 2	-0.0001 ppm	0.0007 ppm	0.0130 ppm	0.0001 ppm	-0.0003 ppm	0.0004 ppm	0.0000 ppm
Concentration per Run 3	0.0001 ppm	0.0007 ppm	0.0105 ppm	-0.0001 ppm	0.0000 ppm	0.0001 ppm	-0.0005 ppm
Recovery Percentage 1	-0.078 %	1.352 %	0.582 %	0.081 %	-2.107 %	0.128 %	1.119 %
Concentration RSD	1,110.2 %	3.9 %	10.5 %	300.5 %	99.4 %	520.2 %	563.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	-0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0005 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 1	-0.0003 ppm	0.0003 ppm	0.0000 ppm	0.0001 ppm	-0.0006 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 2	-0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	-0.0005 ppm	0.0003 ppm	-0.0001 ppm
Concentration per Run 3	-0.0002 ppm	-0.0004 ppm	0.0000 ppm	0.0001 ppm	-0.0004 ppm	0.0001 ppm	0.0001 ppm
Recovery Percentage 1	-0.058 %	-0.060 %	-0.169 %	0.819 %	-2.410 %	1.452 %	0.158 %
Concentration RSD	47.0 %	1,219.0 %	88.2 %	45.0 %	21.5 %	80.8 %	1,579.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	102.5173 %	101.5496 %	98.9614 %	99.8940 %	100.9683 %	98.8709 %	-0.0003 ppm
Concentration per Run 1	104.5731 %	101.4363 %	98.6171 %	101.3816 %	100.4749 %	98.6879 %	-0.0001 ppm
Concentration per Run 2	101.3655 %	102.1773 %	99.1754 %	98.9106 %	101.1699 %	99.5326 %	-0.0006 ppm
Concentration per Run 3	101.6132 %	101.0353 %	99.0917 %	99.3898 %	101.2600 %	98.3923 %	-0.0001 ppm
Recovery Percentage 1							-2.609 %
Concentration RSD	1.7 %	0.6 %	0.3 %	1.3 %	0.4 %	0.6 %	114.0 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: WG2083265-1 WG2083265
 Analysis started at: 6/26/2025 3:20:45 PM
 Comments: <Comment>
 Rack: 1
 Vial: 35

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0023 ppm	-0.0008 ppm	0.0061 ppm	0.0003 ppm	0.0000 ppm	0.0413 ppm
Concentration per Run 1	-0.0001 ppm	0.0040 ppm	-0.0004 ppm	0.0060 ppm	0.0003 ppm	0.0000 ppm	0.0352 ppm
Concentration per Run 2	-0.0002 ppm	0.0008 ppm	-0.0004 ppm	0.0063 ppm	0.0004 ppm	0.0000 ppm	0.0456 ppm
Concentration per Run 3	0.0000 ppm	0.0023 ppm	-0.0015 ppm	0.0059 ppm	0.0003 ppm	0.0000 ppm	0.0429 ppm
Concentration RSD	97.5 %	68.1 %	77.7 %	2.8 %	18.8 %	413.9 %	13.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0002 ppm	-0.0005 ppm	0.0004 ppm	0.0024 ppm	0.0068 ppm	0.0397 ppm	0.0087 ppm
Concentration per Run 1	0.0002 ppm	-0.0004 ppm	0.0002 ppm	0.0024 ppm	0.0060 ppm	0.0347 ppm	0.0093 ppm
Concentration per Run 2	0.0003 ppm	-0.0005 ppm	0.0005 ppm	0.0023 ppm	0.0070 ppm	0.0382 ppm	0.0088 ppm
Concentration per Run 3	0.0002 ppm	-0.0005 ppm	0.0003 ppm	0.0023 ppm	0.0075 ppm	0.0463 ppm	0.0080 ppm
Concentration RSD	25.7 %	4.9 %	41.5 %	2.9 %	11.4 %	15.0 %	7.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	0.0003 ppm	118.1686 ppm	-0.0004 ppm	-0.0015 ppm	0.0000 ppm	0.0037 ppm
Concentration per Run 1	0.0002 ppm	0.0004 ppm	107.1094 ppm	-0.0003 ppm	-0.0013 ppm	-0.0004 ppm	0.0037 ppm
Concentration per Run 2	0.0002 ppm	0.0005 ppm	114.4539 ppm	-0.0003 ppm	-0.0020 ppm	0.0001 ppm	0.0038 ppm
Concentration per Run 3	0.0002 ppm	0.0002 ppm	132.9425 ppm	-0.0005 ppm	-0.0013 ppm	0.0004 ppm	0.0036 ppm
Concentration RSD	20.2 %	45.9 %	11.3 %	28.2 %	26.4 %	988.3 %	3.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0349 ppm	0.0016 ppm	0.0002 ppm	-0.0002 ppm	-0.0068 ppm	-0.0001 ppm	0.0018 ppm
Concentration per Run 1	0.0346 ppm	0.0014 ppm	0.0002 ppm	-0.0002 ppm	-0.0066 ppm	-0.0002 ppm	0.0019 ppm
Concentration per Run 2	0.0350 ppm	0.0015 ppm	0.0002 ppm	-0.0002 ppm	-0.0062 ppm	0.0001 ppm	0.0017 ppm
Concentration per Run 3	0.0350 ppm	0.0019 ppm	0.0002 ppm	-0.0001 ppm	-0.0076 ppm	0.0000 ppm	0.0019 ppm
Concentration RSD	0.5 %	17.7 %	9.6 %	23.8 %	10.9 %	226.0 %	6.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	97.7716 %	90.4178 %	90.7384 %	111.1909 %	76.5805 %	92.5712 %	0.0002 ppm
Concentration per Run 1	100.2179 %	90.4158 %	90.9872 %	119.4682 %	77.0559 %	92.7612 %	0.0003 ppm
Concentration per Run 2	96.6903 %	90.5202 %	89.6682 %	108.8915 %	75.7969 %	92.7567 %	0.0002 ppm
Concentration per Run 3	96.4066 %	90.3173 %	91.5596 %	105.2129 %	76.8888 %	92.1958 %	0.0000 ppm
Concentration RSD	2.2 %	0.1 %	1.1 %	6.7 %	0.9 %	0.4 %	75.9 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: WG2083265-2 WG2083265

Analysis started at: 6/26/2025 3:27:33 PM

Comments: <Comment>

Rack: 1

Vial: 36

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0493 ppm	2.0234 ppm	0.1051 ppm	0.9178 ppm	1.9503 ppm	0.0490 ppm	9.8416 ppm
Concentration per Run 1	0.0491 ppm	1.9762 ppm	0.1041 ppm	0.9148 ppm	1.9011 ppm	0.0476 ppm	9.5053 ppm
Concentration per Run 2	0.0496 ppm	2.0422 ppm	0.1045 ppm	0.9197 ppm	1.9997 ppm	0.0492 ppm	9.8938 ppm
Concentration per Run 3	0.0492 ppm	2.0517 ppm	0.1066 ppm	0.9189 ppm	1.9500 ppm	0.0502 ppm	10.1257 ppm
Concentration RSD	0.5 %	2.0 %	1.3 %	0.3 %	2.5 %	2.7 %	3.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0502 ppm	0.4942 ppm	0.2046 ppm	0.2483 ppm	0.9935 ppm	10.1025 ppm	9.4552 ppm
Concentration per Run 1	0.0502 ppm	0.4943 ppm	0.2042 ppm	0.2469 ppm	0.9692 ppm	10.0388 ppm	9.4382 ppm
Concentration per Run 2	0.0503 ppm	0.4952 ppm	0.2052 ppm	0.2491 ppm	0.9984 ppm	10.2025 ppm	9.4429 ppm
Concentration per Run 3	0.0500 ppm	0.4932 ppm	0.2044 ppm	0.2490 ppm	1.0129 ppm	10.0663 ppm	9.4843 ppm
Concentration RSD	0.3 %	0.2 %	0.3 %	0.5 %	2.2 %	0.9 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4878 ppm	0.9529 ppm	9.9317 ppm	0.4827 ppm	0.5032 ppm	0.4786 ppm	0.1102 ppm
Concentration per Run 1	0.4723 ppm	0.9499 ppm	9.8758 ppm	0.4803 ppm	0.5027 ppm	0.4767 ppm	0.1103 ppm
Concentration per Run 2	0.4915 ppm	0.9560 ppm	10.0184 ppm	0.4843 ppm	0.5036 ppm	0.4798 ppm	0.1088 ppm
Concentration per Run 3	0.4997 ppm	0.9529 ppm	9.9008 ppm	0.4836 ppm	0.5032 ppm	0.4792 ppm	0.1113 ppm
Concentration RSD	2.9 %	0.3 %	0.8 %	0.4 %	0.1 %	0.3 %	1.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.1859 ppm	0.9087 ppm	1.0008 ppm	0.9897 ppm	0.1067 ppm	0.4960 ppm	0.4908 ppm
Concentration per Run 1	1.1824 ppm	0.9073 ppm	0.9777 ppm	0.9884 ppm	0.1046 ppm	0.4955 ppm	0.4915 ppm
Concentration per Run 2	1.1877 ppm	0.9091 ppm	1.0085 ppm	0.9918 ppm	0.1064 ppm	0.4976 ppm	0.4909 ppm
Concentration per Run 3	1.1876 ppm	0.9098 ppm	1.0163 ppm	0.9889 ppm	0.1090 ppm	0.4947 ppm	0.4901 ppm
Concentration RSD	0.3 %	0.1 %	2.0 %	0.2 %	2.1 %	0.3 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.8170 %	97.1650 %	96.1405 %	100.7537 %	85.7525 %	96.9055 %	0.0001 ppm
Concentration per Run 1	102.0157 %	97.4059 %	96.5806 %	103.7073 %	86.1254 %	97.2141 %	0.0001 ppm
Concentration per Run 2	99.0831 %	96.7983 %	95.8784 %	99.8785 %	85.5486 %	96.5103 %	0.0001 ppm
Concentration per Run 3	98.3521 %	97.2907 %	95.9627 %	98.6753 %	85.5835 %	96.9920 %	0.0002 ppm
Concentration RSD	1.9 %	0.3 %	0.4 %	2.6 %	0.4 %	0.4 %	44.1 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2537679-01 WG2083265
 Analysis started at: 6/26/2025 3:34:00 PM
 Comments: <Comment>
 Rack: 1
 Vial: 37

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0415 ppm	-0.0006 ppm	0.0121 ppm	0.0880 ppm	0.0000 ppm	25.2913 ppm
Concentration per Run 1	-0.0002 ppm	0.0426 ppm	-0.0014 ppm	0.0119 ppm	0.0870 ppm	0.0000 ppm	24.4315 ppm
Concentration per Run 2	-0.0001 ppm	0.0430 ppm	0.0009 ppm	0.0124 ppm	0.0886 ppm	0.0000 ppm	25.7112 ppm
Concentration per Run 3	-0.0002 ppm	0.0390 ppm	-0.0013 ppm	0.0120 ppm	0.0885 ppm	0.0000 ppm	25.7312 ppm
Concentration RSD	50.2 %	5.3 %	206.2 %	2.3 %	1.0 %	30.3 %	2.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0136 ppm	0.0004 ppm	0.0002 ppm	0.0824 ppm	0.0102 ppm	0.4072 ppm	0.7727 ppm
Concentration per Run 1	0.0136 ppm	0.0004 ppm	0.0002 ppm	0.0807 ppm	0.0103 ppm	0.4093 ppm	0.7656 ppm
Concentration per Run 2	0.0136 ppm	0.0003 ppm	0.0000 ppm	0.0836 ppm	0.0103 ppm	0.4058 ppm	0.7754 ppm
Concentration per Run 3	0.0136 ppm	0.0004 ppm	0.0004 ppm	0.0828 ppm	0.0100 ppm	0.4066 ppm	0.7770 ppm
Concentration RSD	0.3 %	26.6 %	101.1 %	1.8 %	1.6 %	0.5 %	0.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0502 ppm	0.0012 ppm	132.4598 ppm	0.0242 ppm	0.2056 ppm	0.0047 ppm	0.0041 ppm
Concentration per Run 1	0.0487 ppm	0.0014 ppm	134.0215 ppm	0.0245 ppm	0.2069 ppm	0.0050 ppm	0.0045 ppm
Concentration per Run 2	0.0508 ppm	0.0011 ppm	136.2265 ppm	0.0243 ppm	0.2048 ppm	0.0041 ppm	0.0041 ppm
Concentration per Run 3	0.0510 ppm	0.0012 ppm	127.1316 ppm	0.0238 ppm	0.2053 ppm	0.0050 ppm	0.0035 ppm
Concentration RSD	2.5 %	10.1 %	3.6 %	1.7 %	0.5 %	12.0 %	12.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.9861 ppm	0.0026 ppm	0.0988 ppm	-0.0001 ppm	-0.0074 ppm	0.0000 ppm	3.5649 ppm
Concentration per Run 1	0.9899 ppm	0.0029 ppm	0.0976 ppm	0.0000 ppm	-0.0072 ppm	0.0000 ppm	3.5789 ppm
Concentration per Run 2	0.9850 ppm	0.0026 ppm	0.0996 ppm	-0.0001 ppm	-0.0072 ppm	0.0000 ppm	3.5648 ppm
Concentration per Run 3	0.9835 ppm	0.0023 ppm	0.0993 ppm	-0.0002 ppm	-0.0077 ppm	0.0000 ppm	3.5511 ppm
Concentration RSD	0.3 %	11.5 %	1.1 %	156.9 %	4.0 %	709.9 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	97.6738 %	91.1653 %	91.8065 %	98.9801 %	75.9499 %	91.1813 %	0.0009 ppm
Concentration per Run 1	99.2200 %	91.2902 %	91.9205 %	101.2258 %	75.8485 %	91.4811 %	0.0009 ppm
Concentration per Run 2	96.9644 %	90.8121 %	91.5033 %	97.7928 %	75.8760 %	90.6945 %	0.0006 ppm
Concentration per Run 3	96.8368 %	91.3937 %	91.9956 %	97.9215 %	76.1250 %	91.3682 %	0.0012 ppm
Concentration RSD	1.4 %	0.3 %	0.3 %	2.0 %	0.2 %	0.5 %	32.9 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: WG2083265-3 WG2083265
Analysis started at: 6/26/2025 3:40:41 PM
Comments: <Comment>
Rack: 1
Vial: 38

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0513 ppm	2.0942 ppm	0.1117 ppm	0.9331 ppm	2.0180 ppm	0.0496 ppm	35.1877 ppm
Concentration per Run 1	0.0516 ppm	2.0763 ppm	0.1118 ppm	0.9343 ppm	1.9866 ppm	0.0486 ppm	34.3170 ppm
Concentration per Run 2	0.0508 ppm	2.0984 ppm	0.1107 ppm	0.9316 ppm	2.0402 ppm	0.0498 ppm	35.4206 ppm
Concentration per Run 3	0.0515 ppm	2.1079 ppm	0.1124 ppm	0.9334 ppm	2.0273 ppm	0.0504 ppm	35.8253 ppm
Concentration RSD	0.9 %	0.8 %	0.8 %	0.2 %	1.4 %	1.9 %	2.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0638 ppm	0.4804 ppm	0.2046 ppm	0.3304 ppm	0.9773 ppm	10.6682 ppm	9.6211 ppm
Concentration per Run 1	0.0635 ppm	0.4799 ppm	0.2036 ppm	0.3307 ppm	0.9569 ppm	10.8133 ppm	9.6115 ppm
Concentration per Run 2	0.0634 ppm	0.4778 ppm	0.2050 ppm	0.3303 ppm	0.9821 ppm	10.6245 ppm	9.6426 ppm
Concentration per Run 3	0.0643 ppm	0.4834 ppm	0.2053 ppm	0.3302 ppm	0.9928 ppm	10.5668 ppm	9.6091 ppm
Concentration RSD	0.8 %	0.6 %	0.4 %	0.1 %	1.9 %	1.2 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5337 ppm	0.9486 ppm	140.9550 ppm	0.5292 ppm	0.7133 ppm	0.5294 ppm	0.1178 ppm
Concentration per Run 1	0.5221 ppm	0.9467 ppm	139.0976 ppm	0.5314 ppm	0.7159 ppm	0.5345 ppm	0.1185 ppm
Concentration per Run 2	0.5373 ppm	0.9445 ppm	138.7762 ppm	0.5310 ppm	0.7168 ppm	0.5319 ppm	0.1199 ppm
Concentration per Run 3	0.5418 ppm	0.9545 ppm	144.9910 ppm	0.5251 ppm	0.7071 ppm	0.5219 ppm	0.1151 ppm
Concentration RSD	1.9 %	0.6 %	2.5 %	0.7 %	0.7 %	1.3 %	2.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.2817 ppm	0.9426 ppm	1.0929 ppm	0.9921 ppm	0.0984 ppm	0.5034 ppm	3.9967 ppm
Concentration per Run 1	2.2963 ppm	0.9451 ppm	1.0766 ppm	0.9906 ppm	0.0999 ppm	0.5031 ppm	3.9886 ppm
Concentration per Run 2	2.2895 ppm	0.9471 ppm	1.0984 ppm	0.9935 ppm	0.0992 ppm	0.5040 ppm	3.9986 ppm
Concentration per Run 3	2.2594 ppm	0.9355 ppm	1.1038 ppm	0.9923 ppm	0.0962 ppm	0.5030 ppm	4.0029 ppm
Concentration RSD	0.9 %	0.7 %	1.3 %	0.1 %	2.0 %	0.1 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	97.3277 %	91.3277 %	91.0726 %	97.9818 %	74.4484 %	90.5374 %	0.0009 ppm
Concentration per Run 1	98.3246 %	91.2472 %	90.5257 %	99.8079 %	73.8381 %	90.3568 %	0.0007 ppm
Concentration per Run 2	97.0508 %	91.5612 %	90.6047 %	97.1666 %	74.1406 %	90.7490 %	0.0014 ppm
Concentration per Run 3	96.6078 %	91.1746 %	92.0875 %	96.9710 %	75.3665 %	90.5065 %	0.0006 ppm
Concentration RSD	0.9 %	0.2 %	1.0 %	1.6 %	1.1 %	0.2 %	46.1 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: WG2083265-4 WG2083265
Analysis started at: 6/26/2025 3:47:15 PM
Comments: <Comment>
Rack: 1
Vial: 39

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0420 ppm	-0.0010 ppm	0.0123 ppm	0.0876 ppm	0.0000 ppm	25.4570 ppm
Concentration per Run 1	-0.0001 ppm	0.0396 ppm	-0.0014 ppm	0.0124 ppm	0.0863 ppm	0.0000 ppm	25.0439 ppm
Concentration per Run 2	-0.0001 ppm	0.0423 ppm	-0.0014 ppm	0.0124 ppm	0.0882 ppm	0.0000 ppm	25.7843 ppm
Concentration per Run 3	-0.0002 ppm	0.0442 ppm	-0.0001 ppm	0.0122 ppm	0.0883 ppm	0.0000 ppm	25.5428 ppm
Concentration RSD	38.8 %	5.5 %	79.1 %	0.9 %	1.3 %	112.9 %	1.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0135 ppm	0.0004 ppm	0.0004 ppm	0.0818 ppm	0.0114 ppm	0.4066 ppm	0.7723 ppm
Concentration per Run 1	0.0135 ppm	0.0004 ppm	0.0005 ppm	0.0818 ppm	0.0111 ppm	0.3930 ppm	0.7707 ppm
Concentration per Run 2	0.0135 ppm	0.0005 ppm	0.0005 ppm	0.0821 ppm	0.0118 ppm	0.4022 ppm	0.7746 ppm
Concentration per Run 3	0.0135 ppm	0.0003 ppm	0.0002 ppm	0.0815 ppm	0.0112 ppm	0.4246 ppm	0.7715 ppm
Concentration RSD	0.1 %	31.8 %	34.6 %	0.4 %	3.3 %	4.0 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0513 ppm	0.0013 ppm	133.6721 ppm	0.0246 ppm	0.2059 ppm	0.0045 ppm	0.0038 ppm
Concentration per Run 1	0.0506 ppm	0.0015 ppm	131.9872 ppm	0.0249 ppm	0.2061 ppm	0.0043 ppm	0.0044 ppm
Concentration per Run 2	0.0519 ppm	0.0011 ppm	135.6355 ppm	0.0248 ppm	0.2055 ppm	0.0042 ppm	0.0044 ppm
Concentration per Run 3	0.0514 ppm	0.0011 ppm	133.3936 ppm	0.0241 ppm	0.2061 ppm	0.0049 ppm	0.0024 ppm
Concentration RSD	1.3 %	16.9 %	1.4 %	1.7 %	0.2 %	8.2 %	30.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.9831 ppm	0.0025 ppm	0.0984 ppm	0.0001 ppm	-0.0071 ppm	0.0001 ppm	3.5438 ppm
Concentration per Run 1	0.9840 ppm	0.0031 ppm	0.0969 ppm	0.0001 ppm	-0.0078 ppm	0.0000 ppm	3.5402 ppm
Concentration per Run 2	0.9831 ppm	0.0025 ppm	0.0990 ppm	0.0001 ppm	-0.0064 ppm	0.0000 ppm	3.5507 ppm
Concentration per Run 3	0.9822 ppm	0.0019 ppm	0.0993 ppm	0.0001 ppm	-0.0071 ppm	0.0002 ppm	3.5405 ppm
Concentration RSD	0.1 %	24.0 %	1.4 %	5.5 %	9.7 %	133.3 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	97.6879 %	92.4269 %	92.7004 %	98.7053 %	76.3440 %	92.0728 %	0.0009 ppm
Concentration per Run 1	98.3348 %	92.3697 %	92.4867 %	100.1031 %	76.2527 %	91.9476 %	0.0009 ppm
Concentration per Run 2	97.2028 %	92.7203 %	92.8870 %	97.8470 %	76.3509 %	92.2719 %	0.0009 ppm
Concentration per Run 3	97.5260 %	92.1907 %	92.7275 %	98.1657 %	76.4285 %	91.9989 %	0.0009 ppm
Concentration RSD	0.6 %	0.3 %	0.2 %	1.2 %	0.1 %	0.2 %	2.4 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2537679-04 WG2083265

Analysis started at: 6/26/2025 3:53:55 PM

Comments: <Comment>

Rack: 1

Vial: 40

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.3382 ppm	-0.0023 ppm	0.0058 ppm	0.0185 ppm	0.0000 ppm	0.5042 ppm
Concentration per Run 1	0.0002 ppm	0.3295 ppm	-0.0030 ppm	0.0058 ppm	0.0180 ppm	0.0000 ppm	0.4826 ppm
Concentration per Run 2	0.0000 ppm	0.3380 ppm	-0.0021 ppm	0.0057 ppm	0.0185 ppm	0.0001 ppm	0.5158 ppm
Concentration per Run 3	-0.0002 ppm	0.3470 ppm	-0.0017 ppm	0.0058 ppm	0.0189 ppm	0.0000 ppm	0.5141 ppm
Concentration RSD	32,006.1 %	2.6 %	29.2 %	1.6 %	2.3 %	24.1 %	3.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0003 ppm	-0.0001 ppm	0.0007 ppm	0.0019 ppm	0.3891 ppm	0.2932 ppm	0.0993 ppm
Concentration per Run 1	0.0003 ppm	-0.0002 ppm	0.0008 ppm	0.0018 ppm	0.3770 ppm	0.2910 ppm	0.0982 ppm
Concentration per Run 2	0.0004 ppm	0.0001 ppm	0.0008 ppm	0.0019 ppm	0.3976 ppm	0.2835 ppm	0.0990 ppm
Concentration per Run 3	0.0004 ppm	0.0000 ppm	0.0004 ppm	0.0021 ppm	0.3928 ppm	0.3051 ppm	0.1008 ppm
Concentration RSD	19.9 %	205.0 %	29.3 %	7.9 %	2.8 %	3.7 %	1.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0145 ppm	0.0006 ppm	128.1277 ppm	0.0000 ppm	0.0093 ppm	0.0005 ppm	0.0042 ppm
Concentration per Run 1	0.0140 ppm	0.0005 ppm	125.7636 ppm	0.0000 ppm	0.0090 ppm	0.0010 ppm	0.0045 ppm
Concentration per Run 2	0.0148 ppm	0.0007 ppm	130.8884 ppm	-0.0001 ppm	0.0099 ppm	-0.0001 ppm	0.0028 ppm
Concentration per Run 3	0.0146 ppm	0.0006 ppm	127.7312 ppm	0.0000 ppm	0.0090 ppm	0.0005 ppm	0.0053 ppm
Concentration RSD	2.6 %	13.4 %	2.0 %	795.6 %	5.5 %	121.8 %	29.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.5556 ppm	0.0020 ppm	0.0031 ppm	0.0104 ppm	-0.0063 ppm	0.0008 ppm	0.0082 ppm
Concentration per Run 1	0.5600 ppm	0.0021 ppm	0.0030 ppm	0.0103 ppm	-0.0069 ppm	0.0010 ppm	0.0083 ppm
Concentration per Run 2	0.5557 ppm	0.0021 ppm	0.0032 ppm	0.0102 ppm	-0.0055 ppm	0.0007 ppm	0.0081 ppm
Concentration per Run 3	0.5512 ppm	0.0019 ppm	0.0032 ppm	0.0108 ppm	-0.0066 ppm	0.0007 ppm	0.0080 ppm
Concentration RSD	0.8 %	6.2 %	2.5 %	3.1 %	11.1 %	23.9 %	1.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	98.3919 %	93.0275 %	92.9332 %	99.4674 %	76.2863 %	92.4105 %	0.0004 ppm
Concentration per Run 1	100.4179 %	93.4567 %	92.8493 %	102.3573 %	76.4595 %	92.9880 %	0.0001 ppm
Concentration per Run 2	97.5116 %	93.4375 %	93.7006 %	98.2018 %	76.5302 %	92.8011 %	0.0007 ppm
Concentration per Run 3	97.2462 %	92.1882 %	92.2497 %	97.8432 %	75.8693 %	91.4424 %	0.0004 ppm
Concentration RSD	1.8 %	0.8 %	0.8 %	2.5 %	0.5 %	0.9 %	79.8 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2537679-07 WG2083265

Analysis started at: 6/26/2025 4:00:40 PM

Comments: <Comment>

Rack: 1

Vial: 41

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0740 ppm	-0.0021 ppm	0.0045 ppm	0.0107 ppm	0.0000 ppm	0.3872 ppm
Concentration per Run 1	-0.0002 ppm	0.0736 ppm	-0.0016 ppm	0.0043 ppm	0.0104 ppm	0.0000 ppm	0.3758 ppm
Concentration per Run 2	-0.0001 ppm	0.0741 ppm	-0.0019 ppm	0.0043 ppm	0.0108 ppm	0.0000 ppm	0.3928 ppm
Concentration per Run 3	-0.0001 ppm	0.0742 ppm	-0.0027 ppm	0.0047 ppm	0.0107 ppm	0.0001 ppm	0.3929 ppm
Concentration RSD	34.4 %	0.4 %	28.5 %	5.6 %	2.3 %	48.2 %	2.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0005 ppm	-0.0003 ppm	0.0000 ppm	0.0016 ppm	0.0271 ppm	0.2476 ppm	0.0699 ppm
Concentration per Run 1	0.0004 ppm	-0.0004 ppm	0.0001 ppm	0.0018 ppm	0.0262 ppm	0.2465 ppm	0.0675 ppm
Concentration per Run 2	0.0005 ppm	-0.0003 ppm	0.0002 ppm	0.0018 ppm	0.0284 ppm	0.2489 ppm	0.0708 ppm
Concentration per Run 3	0.0005 ppm	-0.0003 ppm	-0.0001 ppm	0.0014 ppm	0.0266 ppm	0.2473 ppm	0.0714 ppm
Concentration RSD	9.6 %	22.1 %	465.7 %	13.9 %	4.2 %	0.5 %	3.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0070 ppm	0.0005 ppm	128.7052 ppm	-0.0002 ppm	0.0097 ppm	0.0008 ppm	0.0038 ppm
Concentration per Run 1	0.0068 ppm	0.0003 ppm	120.0837 ppm	-0.0003 ppm	0.0098 ppm	0.0007 ppm	0.0028 ppm
Concentration per Run 2	0.0072 ppm	0.0006 ppm	133.2359 ppm	-0.0002 ppm	0.0097 ppm	0.0004 ppm	0.0044 ppm
Concentration per Run 3	0.0070 ppm	0.0006 ppm	132.7961 ppm	-0.0003 ppm	0.0095 ppm	0.0014 ppm	0.0042 ppm
Concentration RSD	2.9 %	33.7 %	5.8 %	34.8 %	1.3 %	62.2 %	22.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.1233 ppm	0.0022 ppm	0.0021 ppm	-0.0001 ppm	-0.0078 ppm	-0.0001 ppm	0.0068 ppm
Concentration per Run 1	0.1240 ppm	0.0024 ppm	0.0020 ppm	-0.0003 ppm	-0.0080 ppm	0.0000 ppm	0.0069 ppm
Concentration per Run 2	0.1228 ppm	0.0021 ppm	0.0021 ppm	-0.0001 ppm	-0.0079 ppm	-0.0001 ppm	0.0068 ppm
Concentration per Run 3	0.1233 ppm	0.0022 ppm	0.0021 ppm	0.0000 ppm	-0.0074 ppm	-0.0002 ppm	0.0068 ppm
Concentration RSD	0.5 %	5.0 %	3.4 %	118.5 %	4.4 %	79.8 %	0.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	97.4214 %	92.4982 %	93.0131 %	98.9547 %	75.9075 %	91.5902 %	0.0002 ppm
Concentration per Run 1	98.4585 %	92.4132 %	92.7717 %	101.2508 %	75.6980 %	91.6192 %	0.0002 ppm
Concentration per Run 2	96.9752 %	92.4084 %	93.2329 %	98.0756 %	75.8883 %	91.3515 %	0.0002 ppm
Concentration per Run 3	96.8307 %	92.6729 %	93.0345 %	97.5376 %	76.1362 %	91.7998 %	0.0002 ppm
Concentration RSD	0.9 %	0.2 %	0.2 %	2.0 %	0.3 %	0.2 %	14.2 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2537679-10 WG2083265

Analysis started at: 6/26/2025 4:07:28 PM

Comments: <Comment>

Rack: 1

Vial: 42

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0607 ppm	-0.0003 ppm	0.0047 ppm	0.0106 ppm	0.0001 ppm	1.7438 ppm
Concentration per Run 1	0.0000 ppm	0.0582 ppm	0.0011 ppm	0.0047 ppm	0.0104 ppm	0.0000 ppm	1.6883 ppm
Concentration per Run 2	0.0000 ppm	0.0615 ppm	-0.0018 ppm	0.0044 ppm	0.0107 ppm	0.0001 ppm	1.7733 ppm
Concentration per Run 3	-0.0002 ppm	0.0625 ppm	-0.0003 ppm	0.0050 ppm	0.0108 ppm	0.0000 ppm	1.7698 ppm
Concentration RSD	85.2 %	3.7 %	430.1 %	5.9 %	2.0 %	24.5 %	2.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0003 ppm	0.0001 ppm	0.0003 ppm	0.0014 ppm	0.1070 ppm	0.2681 ppm	0.5783 ppm
Concentration per Run 1	0.0003 ppm	0.0000 ppm	0.0003 ppm	0.0013 ppm	0.1037 ppm	0.2568 ppm	0.5771 ppm
Concentration per Run 2	0.0003 ppm	0.0002 ppm	0.0002 ppm	0.0015 ppm	0.1083 ppm	0.2628 ppm	0.5763 ppm
Concentration per Run 3	0.0002 ppm	0.0001 ppm	0.0003 ppm	0.0015 ppm	0.1090 ppm	0.2846 ppm	0.5816 ppm
Concentration RSD	18.2 %	93.5 %	14.1 %	6.7 %	2.7 %	5.5 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0453 ppm	0.0004 ppm	126.0825 ppm	-0.0001 ppm	0.0022 ppm	0.0012 ppm	0.0032 ppm
Concentration per Run 1	0.0438 ppm	0.0004 ppm	121.1821 ppm	-0.0002 ppm	0.0021 ppm	0.0017 ppm	0.0031 ppm
Concentration per Run 2	0.0460 ppm	0.0003 ppm	135.3312 ppm	0.0000 ppm	0.0018 ppm	0.0011 ppm	0.0032 ppm
Concentration per Run 3	0.0460 ppm	0.0004 ppm	121.7343 ppm	-0.0002 ppm	0.0028 ppm	0.0009 ppm	0.0032 ppm
Concentration RSD	2.8 %	10.0 %	6.4 %	65.3 %	23.7 %	32.0 %	1.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.1613 ppm	0.0014 ppm	0.0106 ppm	0.0001 ppm	-0.0077 ppm	0.0001 ppm	0.0062 ppm
Concentration per Run 1	0.1607 ppm	0.0011 ppm	0.0103 ppm	0.0001 ppm	-0.0072 ppm	0.0001 ppm	0.0063 ppm
Concentration per Run 2	0.1618 ppm	0.0014 ppm	0.0107 ppm	0.0001 ppm	-0.0075 ppm	0.0000 ppm	0.0063 ppm
Concentration per Run 3	0.1612 ppm	0.0018 ppm	0.0107 ppm	0.0001 ppm	-0.0085 ppm	0.0001 ppm	0.0061 ppm
Concentration RSD	0.4 %	25.2 %	2.2 %	40.2 %	9.2 %	51.5 %	1.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	97.7979 %	93.7078 %	93.4099 %	98.9356 %	76.1440 %	92.5890 %	0.0002 ppm
Concentration per Run 1	99.4715 %	93.5622 %	94.1895 %	101.7290 %	76.6518 %	92.4793 %	0.0002 ppm
Concentration per Run 2	97.1505 %	93.9224 %	92.7332 %	97.6205 %	75.4656 %	92.9459 %	0.0002 ppm
Concentration per Run 3	96.7717 %	93.6389 %	93.3070 %	97.4573 %	76.3147 %	92.3418 %	0.0003 ppm
Concentration RSD	1.5 %	0.2 %	0.8 %	2.4 %	0.8 %	0.3 %	37.4 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: CCV
Analysis started at: 6/26/2025 4:14:13 PM
Comments: <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5112 ppm	0.4965 ppm	0.4652 ppm	0.5067 ppm	0.4923 ppm	0.4940 ppm	0.5016 ppm
Concentration per Run 1	0.5123 ppm	0.4857 ppm	0.4654 ppm	0.5042 ppm	0.4834 ppm	0.4844 ppm	0.4902 ppm
Concentration per Run 2	0.5086 ppm	0.5038 ppm	0.4655 ppm	0.5077 ppm	0.4965 ppm	0.4969 ppm	0.5020 ppm
Concentration per Run 3	0.5126 ppm	0.5001 ppm	0.4647 ppm	0.5082 ppm	0.4969 ppm	0.5008 ppm	0.5125 ppm
Recovery Percentage 1	102.235 %	99.309 %	93.036 %	101.338 %	98.451 %	98.810 %	100.312 %
Concentration RSD	0.4 %	1.9 %	0.1 %	0.4 %	1.6 %	1.7 %	2.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4864 ppm	0.5159 ppm	0.5132 ppm	0.4996 ppm	0.4929 ppm	5.2761 ppm	0.5191 ppm
Concentration per Run 1	0.4844 ppm	0.5148 ppm	0.5136 ppm	0.4986 ppm	0.4800 ppm	5.1656 ppm	0.5170 ppm
Concentration per Run 2	0.4865 ppm	0.5160 ppm	0.5121 ppm	0.4978 ppm	0.4993 ppm	5.3695 ppm	0.5174 ppm
Concentration per Run 3	0.4883 ppm	0.5170 ppm	0.5138 ppm	0.5024 ppm	0.4994 ppm	5.2932 ppm	0.5229 ppm
Recovery Percentage 1	97.276 %	103.187 %	102.634 %	99.920 %	98.582 %	105.522 %	103.817 %
Concentration RSD	0.4 %	0.2 %	0.2 %	0.5 %	2.3 %	2.0 %	0.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4989 ppm	0.4934 ppm	9.9676 ppm	0.4709 ppm	0.4817 ppm	0.4758 ppm	0.4991 ppm
Concentration per Run 1	0.4884 ppm	0.4920 ppm	9.7516 ppm	0.4732 ppm	0.4836 ppm	0.4780 ppm	0.4979 ppm
Concentration per Run 2	0.5024 ppm	0.4931 ppm	10.1501 ppm	0.4698 ppm	0.4808 ppm	0.4745 ppm	0.4980 ppm
Concentration per Run 3	0.5060 ppm	0.4951 ppm	10.0010 ppm	0.4696 ppm	0.4807 ppm	0.4748 ppm	0.5013 ppm
Recovery Percentage 1	99.789 %	98.683 %	99.676 %	94.178 %	96.336 %	95.152 %	99.810 %
Concentration RSD	1.9 %	0.3 %	2.0 %	0.4 %	0.3 %	0.4 %	0.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.1479 ppm	0.4602 ppm	0.5143 ppm	0.5073 ppm	0.4847 ppm	0.5042 ppm	0.5052 ppm
Concentration per Run 1	5.1818 ppm	0.4623 ppm	0.5045 ppm	0.5076 ppm	0.4870 ppm	0.5038 ppm	0.5051 ppm
Concentration per Run 2	5.1309 ppm	0.4580 ppm	0.5185 ppm	0.5074 ppm	0.4851 ppm	0.5044 ppm	0.5043 ppm
Concentration per Run 3	5.1310 ppm	0.4604 ppm	0.5199 ppm	0.5069 ppm	0.4820 ppm	0.5043 ppm	0.5063 ppm
Recovery Percentage 1	98.055 %	92.045 %	102.859 %	101.461 %	96.940 %	100.836 %	101.044 %
Concentration RSD	0.6 %	0.5 %	1.7 %	0.1 %	0.5 %	0.1 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.9834 %	99.8939 %	99.2532 %	101.8800 %	94.2396 %	98.9535 %	0.5237 ppm
Concentration per Run 1	103.2923 %	100.0970 %	98.8889 %	103.7510 %	93.5620 %	99.1489 %	0.5135 ppm
Concentration per Run 2	99.9040 %	99.7652 %	99.3762 %	100.9873 %	94.5585 %	98.8501 %	0.5326 ppm
Concentration per Run 3	99.7538 %	99.8195 %	99.4946 %	100.9018 %	94.5984 %	98.8614 %	0.5250 ppm
Recovery Percentage 1							104.737 %
Concentration RSD	2.0 %	0.2 %	0.3 %	1.6 %	0.6 %	0.2 %	1.8 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: CCB
Analysis started at: 6/26/2025 4:20:32 PM
Comments: <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0004 ppm	-0.0011 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	-0.0007 ppm
Concentration per Run 1	-0.0001 ppm	0.0027 ppm	-0.0001 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	-0.0006 ppm
Concentration per Run 2	0.0001 ppm	-0.0029 ppm	-0.0013 ppm	0.0012 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm
Concentration per Run 3	-0.0001 ppm	0.0014 ppm	-0.0019 ppm	0.0008 ppm	0.0000 ppm	0.0000 ppm	-0.0020 ppm
Recovery Percentage 1	-0.382 %	0.424 %	-22.534 %	3.305 %	0.122 %	0.164 %	-0.741 %
Concentration RSD	372.2 %	690.3 %	79.9 %	19.3 %	150.0 %	315.8 %	162.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0003 ppm	0.0075 ppm	0.0005 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0004 ppm	0.0000 ppm	0.0075 ppm	-0.0004 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0006 ppm	0.0009 ppm	0.0035 ppm	0.0009 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0001 ppm	0.0113 ppm	0.0009 ppm
Recovery Percentage 1	0.223 %	-0.214 %	0.340 %	4.259 %	0.654 %	0.298 %	0.476 %
Concentration RSD	322.2 %	234.5 %	292.6 %	35.6 %	143.8 %	52.8 %	153.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0006 ppm	0.0122 ppm	0.0002 ppm	0.0001 ppm	0.0006 ppm	0.0017 ppm
Concentration per Run 1	-0.0002 ppm	0.0007 ppm	0.0128 ppm	0.0005 ppm	0.0002 ppm	0.0000 ppm	0.0022 ppm
Concentration per Run 2	0.0001 ppm	0.0006 ppm	0.0126 ppm	0.0001 ppm	0.0001 ppm	0.0012 ppm	0.0020 ppm
Concentration per Run 3	0.0001 ppm	0.0005 ppm	0.0110 ppm	0.0001 ppm	-0.0001 ppm	0.0007 ppm	0.0008 ppm
Recovery Percentage 1	0.190 %	1.154 %	0.608 %	0.849 %	0.617 %	1.297 %	16.808 %
Concentration RSD	849.3 %	17.7 %	8.0 %	124.2 %	192.6 %	96.3 %	46.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0001 ppm	-0.0001 ppm
Concentration per Run 1	0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0008 ppm	0.0001 ppm	-0.0002 ppm
Concentration per Run 2	-0.0001 ppm	-0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0001 ppm	-0.0001 ppm
Concentration per Run 3	-0.0002 ppm	0.0003 ppm	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm
Recovery Percentage 1	-0.004 %	-0.064 %	0.006 %	-0.027 %	1.927 %	1.029 %	-1.541 %
Concentration RSD	997.2 %	1,034.6 %	2,325.7 %	1,917.7 %	89.9 %	25.3 %	137.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.3988 %	102.0032 %	100.1553 %	99.5385 %	101.6063 %	99.5096 %	-0.0001 ppm
Concentration per Run 1	103.2165 %	102.3518 %	101.1889 %	100.6747 %	102.0412 %	99.7034 %	0.0001 ppm
Concentration per Run 2	100.7725 %	101.9702 %	100.0002 %	99.0930 %	101.5538 %	99.3754 %	-0.0001 ppm
Concentration per Run 3	100.2073 %	101.6875 %	99.2767 %	98.8479 %	101.2238 %	99.4500 %	-0.0001 ppm
Recovery Percentage 1							-0.547 %
Concentration RSD	1.6 %	0.3 %	1.0 %	1.0 %	0.4 %	0.2 %	248.9 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: WG2081457-1 WG2081457

Analysis started at: 6/26/2025 4:49:37 PM

Comments: <Comment>

Rack: 1

Vial: 43

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0038 ppm	-0.0004 ppm	0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0130 ppm
Concentration per Run 1	-0.0002 ppm	0.0003 ppm	-0.0006 ppm	0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0120 ppm
Concentration per Run 2	-0.0002 ppm	0.0059 ppm	0.0001 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0143 ppm
Concentration per Run 3	-0.0002 ppm	0.0051 ppm	-0.0008 ppm	0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0127 ppm
Recovery Percentage 1	-2.911 %	3.770 %	-8.681 %	1.904 %	0.169 %	0.249 %	12.990 %
Concentration RSD	19.4 %	80.9 %	110.9 %	30.9 %	84.6 %	94.8 %	9.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0008 ppm	0.0023 ppm	-0.0061 ppm	0.0040 ppm
Concentration per Run 1	-0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0008 ppm	0.0024 ppm	-0.0173 ppm	0.0025 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0009 ppm	0.0020 ppm	0.0008 ppm	0.0058 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0006 ppm	0.0024 ppm	-0.0019 ppm	0.0036 ppm
Recovery Percentage 1	-0.642 %	-0.036 %	-0.458 %	7.817 %	4.524 %	-0.244 %	3.955 %
Concentration RSD	170.2 %	1,328.6 %	383.7 %	17.1 %	10.7 %	160.3 %	42.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	0.0001 ppm	0.0108 ppm	0.0002 ppm	0.0000 ppm	-0.0004 ppm	0.0006 ppm
Concentration per Run 1	0.0003 ppm	0.0001 ppm	0.0103 ppm	0.0004 ppm	0.0002 ppm	0.0006 ppm	0.0003 ppm
Concentration per Run 2	0.0002 ppm	0.0001 ppm	0.0092 ppm	0.0002 ppm	0.0002 ppm	-0.0007 ppm	0.0020 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0127 ppm	0.0001 ppm	-0.0003 ppm	-0.0010 ppm	-0.0004 ppm
Recovery Percentage 1	1.676 %	0.120 %	0.538 %	0.907 %	0.497 %	-0.789 %	6.190 %
Concentration RSD	69.8 %	112.4 %	16.6 %	72.3 %	570.1 %	210.5 %	194.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0089 ppm	-0.0003 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0006 ppm
Concentration per Run 1	0.0089 ppm	-0.0002 ppm	0.0000 ppm	0.0001 ppm	-0.0004 ppm	-0.0002 ppm	0.0006 ppm
Concentration per Run 2	0.0085 ppm	-0.0003 ppm	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0001 ppm	0.0006 ppm
Concentration per Run 3	0.0094 ppm	-0.0005 ppm	0.0000 ppm	0.0003 ppm	-0.0002 ppm	0.0000 ppm	0.0007 ppm
Recovery Percentage 1	1.784 %	-0.627 %	-0.028 %	0.331 %	-0.898 %	-0.458 %	12.245 %
Concentration RSD	5.1 %	43.2 %	1,387.9 %	729.2 %	110.6 %	399.5 %	10.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	103.0020 %	101.6475 %	99.4690 %	104.4926 %	105.6758 %	100.8594 %	-0.0002 ppm
Concentration per Run 1	104.7042 %	101.7156 %	99.0409 %	106.3256 %	105.1148 %	100.9886 %	0.0000 ppm
Concentration per Run 2	102.4337 %	101.1788 %	100.7955 %	104.0285 %	107.2998 %	100.4346 %	-0.0004 ppm
Concentration per Run 3	101.8682 %	102.0480 %	98.5706 %	103.1238 %	104.6126 %	101.1550 %	-0.0002 ppm
Recovery Percentage 1							-2.091 %
Concentration RSD	1.5 %	0.4 %	1.2 %	1.6 %	1.4 %	0.4 %	111.6 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: WG2081457-2 WG2081457

Analysis started at: 6/26/2025 4:56:16 PM

Comments: <Comment>

Rack: 1

Vial: 44

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0518 ppm	2.1414 ppm	0.1148 ppm	0.9858 ppm	2.0161 ppm	0.0494 ppm	10.3521 ppm
Concentration per Run 1	0.0517 ppm	2.1250 ppm	0.1156 ppm	0.9880 ppm	1.9697 ppm	0.0489 ppm	10.2314 ppm
Concentration per Run 2	0.0525 ppm	2.1468 ppm	0.1146 ppm	0.9899 ppm	2.0558 ppm	0.0496 ppm	10.4502 ppm
Concentration per Run 3	0.0513 ppm	2.1523 ppm	0.1144 ppm	0.9794 ppm	2.0228 ppm	0.0497 ppm	10.3749 ppm
Concentration RSD	1.1 %	0.7 %	0.6 %	0.6 %	2.2 %	0.9 %	1.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0500 ppm	0.4978 ppm	0.2053 ppm	0.2508 ppm	0.9941 ppm	11.5349 ppm	10.2920 ppm
Concentration per Run 1	0.0504 ppm	0.5002 ppm	0.2065 ppm	0.2502 ppm	0.9859 ppm	11.5656 ppm	10.3152 ppm
Concentration per Run 2	0.0502 ppm	0.4996 ppm	0.2053 ppm	0.2544 ppm	0.9998 ppm	11.5206 ppm	10.3757 ppm
Concentration per Run 3	0.0494 ppm	0.4937 ppm	0.2040 ppm	0.2479 ppm	0.9968 ppm	11.5185 ppm	10.1851 ppm
Concentration RSD	1.1 %	0.7 %	0.6 %	1.3 %	0.7 %	0.2 %	0.9 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4984 ppm	0.9595 ppm	11.2048 ppm	0.4602 ppm	0.5114 ppm	0.4663 ppm	0.1245 ppm
Concentration per Run 1	0.4937 ppm	0.9625 ppm	11.2290 ppm	0.4609 ppm	0.5121 ppm	0.4641 ppm	0.1256 ppm
Concentration per Run 2	0.5015 ppm	0.9625 ppm	11.1873 ppm	0.4594 ppm	0.5108 ppm	0.4654 ppm	0.1230 ppm
Concentration per Run 3	0.5000 ppm	0.9535 ppm	11.1979 ppm	0.4603 ppm	0.5113 ppm	0.4694 ppm	0.1248 ppm
Concentration RSD	0.8 %	0.5 %	0.2 %	0.2 %	0.1 %	0.6 %	1.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.2082 ppm	0.8957 ppm	1.0620 ppm	1.0223 ppm	0.1124 ppm	0.4982 ppm	0.4944 ppm
Concentration per Run 1	1.2073 ppm	0.8961 ppm	1.0549 ppm	1.0266 ppm	0.1118 ppm	0.5015 ppm	0.4940 ppm
Concentration per Run 2	1.2043 ppm	0.8954 ppm	1.0643 ppm	1.0234 ppm	0.1130 ppm	0.4989 ppm	0.4950 ppm
Concentration per Run 3	1.2129 ppm	0.8955 ppm	1.0667 ppm	1.0168 ppm	0.1123 ppm	0.4943 ppm	0.4943 ppm
Concentration RSD	0.4 %	0.0 %	0.6 %	0.5 %	0.5 %	0.7 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.4264 %	97.2035 %	95.0848 %	98.9569 %	90.9061 %	96.5048 %	0.0000 ppm
Concentration per Run 1	101.5902 %	97.3802 %	95.5639 %	99.6710 %	90.9999 %	96.2750 %	0.0000 ppm
Concentration per Run 2	99.9984 %	97.5037 %	95.2383 %	98.5178 %	91.2269 %	96.3266 %	0.0002 ppm
Concentration per Run 3	99.6906 %	96.7265 %	94.4521 %	98.6819 %	90.4916 %	96.9129 %	-0.0002 ppm
Concentration RSD	1.0 %	0.4 %	0.6 %	0.6 %	0.4 %	0.4 %	893.5 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2537655-03 WG2081457
 Analysis started at: 6/26/2025 5:02:43 PM
 Comments: equipment blank
 Rack: 1
 Vial: 52

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0118 ppm	-0.0010 ppm	0.0014 ppm	0.0002 ppm	0.0000 ppm	0.0260 ppm
Concentration per Run 1	-0.0001 ppm	0.0111 ppm	-0.0005 ppm	0.0017 ppm	0.0002 ppm	0.0000 ppm	0.0245 ppm
Concentration per Run 2	-0.0001 ppm	0.0129 ppm	-0.0017 ppm	0.0014 ppm	0.0002 ppm	0.0000 ppm	0.0289 ppm
Concentration per Run 3	0.0000 ppm	0.0114 ppm	-0.0006 ppm	0.0011 ppm	0.0002 ppm	0.0000 ppm	0.0247 ppm
Concentration RSD	84.1 %	8.2 %	71.0 %	21.8 %	15.2 %	33.4 %	9.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0007 ppm	0.0021 ppm	0.0144 ppm	0.0192 ppm	0.0090 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0008 ppm	0.0020 ppm	0.0148 ppm	0.0278 ppm	0.0113 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	0.0007 ppm	0.0022 ppm	0.0138 ppm	0.0146 ppm	0.0070 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0005 ppm	0.0021 ppm	0.0147 ppm	0.0151 ppm	0.0087 ppm
Concentration RSD	61.9 %	48.6 %	18.4 %	5.1 %	4.1 %	39.1 %	24.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0003 ppm	0.0019 ppm	0.0512 ppm	0.0006 ppm	0.0000 ppm	0.0017 ppm	0.0008 ppm
Concentration per Run 1	0.0002 ppm	0.0022 ppm	0.0492 ppm	0.0007 ppm	0.0001 ppm	0.0018 ppm	0.0015 ppm
Concentration per Run 2	0.0003 ppm	0.0018 ppm	0.0527 ppm	0.0005 ppm	0.0002 ppm	0.0015 ppm	-0.0002 ppm
Concentration per Run 3	0.0004 ppm	0.0018 ppm	0.0518 ppm	0.0005 ppm	-0.0001 ppm	0.0017 ppm	0.0010 ppm
Concentration RSD	20.1 %	9.5 %	3.6 %	24.6 %	453.3 %	11.6 %	110.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0156 ppm	0.0011 ppm	0.0001 ppm	0.0002 ppm	0.0003 ppm	-0.0002 ppm	0.0147 ppm
Concentration per Run 1	0.0159 ppm	0.0011 ppm	0.0002 ppm	0.0001 ppm	0.0003 ppm	-0.0001 ppm	0.0147 ppm
Concentration per Run 2	0.0153 ppm	0.0013 ppm	0.0001 ppm	0.0003 ppm	0.0009 ppm	-0.0002 ppm	0.0146 ppm
Concentration per Run 3	0.0155 ppm	0.0010 ppm	0.0001 ppm	0.0001 ppm	-0.0004 ppm	-0.0001 ppm	0.0147 ppm
Concentration RSD	2.1 %	16.9 %	31.0 %	64.8 %	240.7 %	43.5 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	102.7094 %	101.3937 %	98.0389 %	99.1435 %	101.4936 %	99.0168 %	-0.0002 ppm
Concentration per Run 1	103.9500 %	101.5736 %	98.5382 %	99.2984 %	101.1863 %	99.1510 %	-0.0002 ppm
Concentration per Run 2	102.2820 %	101.0888 %	97.4296 %	99.0241 %	101.8653 %	98.7866 %	-0.0004 ppm
Concentration per Run 3	101.8964 %	101.5186 %	98.1489 %	99.1079 %	101.4292 %	99.1126 %	0.0000 ppm
Concentration RSD	1.1 %	0.3 %	0.6 %	0.1 %	0.3 %	0.2 %	115.1 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2537655-01 WG2081457

Analysis started at: 6/26/2025 5:09:23 PM

Comments: <Comment>

Rack: 1

Vial: 50

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	0.0069 ppm	0.0006 ppm	0.0177 ppm	0.0377 ppm	0.0000 ppm	45.5034 ppm
Concentration per Run 1	-0.0004 ppm	0.0071 ppm	0.0007 ppm	0.0176 ppm	0.0374 ppm	0.0000 ppm	45.8557 ppm
Concentration per Run 2	-0.0002 ppm	0.0060 ppm	0.0001 ppm	0.0180 ppm	0.0379 ppm	0.0000 ppm	45.5331 ppm
Concentration per Run 3	-0.0003 ppm	0.0075 ppm	0.0011 ppm	0.0176 ppm	0.0378 ppm	0.0000 ppm	45.1215 ppm
Concentration RSD	29.4 %	11.8 %	78.0 %	1.5 %	0.7 %	11.1 %	0.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	-0.0001 ppm	0.0007 ppm	0.0028 ppm	0.0058 ppm	1.3463 ppm	9.8648 ppm
Concentration per Run 1	0.0001 ppm	-0.0002 ppm	0.0006 ppm	0.0030 ppm	0.0057 ppm	1.2955 ppm	9.8660 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	0.0007 ppm	0.0027 ppm	0.0058 ppm	1.3685 ppm	9.8155 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	0.0007 ppm	0.0029 ppm	0.0057 ppm	1.3751 ppm	9.9129 ppm
Concentration RSD	25.4 %	44.5 %	5.2 %	5.9 %	0.9 %	3.3 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0009 ppm	0.0008 ppm	4.7162 ppm	0.0002 ppm	-0.0003 ppm	0.0009 ppm	0.0026 ppm
Concentration per Run 1	0.0008 ppm	0.0008 ppm	4.5284 ppm	0.0001 ppm	-0.0003 ppm	0.0012 ppm	0.0019 ppm
Concentration per Run 2	0.0008 ppm	0.0008 ppm	4.7895 ppm	0.0003 ppm	-0.0002 ppm	0.0005 ppm	0.0035 ppm
Concentration per Run 3	0.0010 ppm	0.0007 ppm	4.8308 ppm	0.0001 ppm	-0.0002 ppm	0.0010 ppm	0.0023 ppm
Concentration RSD	11.1 %	0.8 %	3.5 %	56.0 %	28.9 %	40.9 %	32.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.1294 ppm	0.0002 ppm	0.0939 ppm	0.0002 ppm	-0.0006 ppm	0.0002 ppm	0.0057 ppm
Concentration per Run 1	3.1320 ppm	-0.0001 ppm	0.0934 ppm	0.0002 ppm	0.0007 ppm	0.0000 ppm	0.0057 ppm
Concentration per Run 2	3.1278 ppm	0.0002 ppm	0.0944 ppm	0.0001 ppm	-0.0016 ppm	0.0003 ppm	0.0057 ppm
Concentration per Run 3	3.1283 ppm	0.0004 ppm	0.0941 ppm	0.0002 ppm	-0.0009 ppm	0.0002 ppm	0.0057 ppm
Concentration RSD	0.1 %	161.5 %	0.6 %	23.7 %	197.5 %	92.9 %	0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.8225 %	96.6665 %	93.5323 %	97.1781 %	89.4607 %	94.0242 %	0.0002 ppm
Concentration per Run 1	101.7503 %	96.2177 %	93.3551 %	97.2601 %	89.2546 %	93.5383 %	0.0004 ppm
Concentration per Run 2	100.4236 %	96.8647 %	93.6314 %	97.0701 %	89.6471 %	94.2649 %	0.0002 ppm
Concentration per Run 3	100.2936 %	96.9171 %	93.6104 %	97.2043 %	89.4805 %	94.2693 %	0.0002 ppm
Concentration RSD	0.8 %	0.4 %	0.2 %	0.1 %	0.2 %	0.4 %	44.1 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2537655-02 WG2081457
 Analysis started at: 6/26/2025 5:15:57 PM
 Comments: <Comment>
 Rack: 1
 Vial: 51

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	2.3724 ppm	0.0066 ppm	0.0094 ppm	0.0572 ppm	0.0002 ppm	16.4438 ppm
Concentration per Run 1	-0.0002 ppm	2.3452 ppm	0.0054 ppm	0.0096 ppm	0.0566 ppm	0.0001 ppm	16.5244 ppm
Concentration per Run 2	-0.0001 ppm	2.3770 ppm	0.0064 ppm	0.0093 ppm	0.0575 ppm	0.0002 ppm	16.3553 ppm
Concentration per Run 3	0.0002 ppm	2.3950 ppm	0.0081 ppm	0.0094 ppm	0.0574 ppm	0.0002 ppm	16.4518 ppm
Concentration RSD	514.0 %	1.1 %	20.8 %	1.8 %	0.9 %	15.4 %	0.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0004 ppm	0.0011 ppm	0.0099 ppm	0.0058 ppm	42.1734 ppm	1.3895 ppm	6.4880 ppm
Concentration per Run 1	0.0004 ppm	0.0013 ppm	0.0099 ppm	0.0060 ppm	42.1198 ppm	1.3508 ppm	6.5107 ppm
Concentration per Run 2	0.0003 ppm	0.0011 ppm	0.0100 ppm	0.0056 ppm	42.1951 ppm	1.3995 ppm	6.4494 ppm
Concentration per Run 3	0.0004 ppm	0.0010 ppm	0.0098 ppm	0.0058 ppm	42.2055 ppm	1.4183 ppm	6.5040 ppm
Concentration RSD	7.8 %	16.2 %	1.1 %	3.2 %	0.1 %	2.5 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0858 ppm	0.0005 ppm	8.3153 ppm	0.0020 ppm	-0.0016 ppm	-0.0007 ppm	0.0004 ppm
Concentration per Run 1	0.0862 ppm	0.0005 ppm	8.1134 ppm	0.0022 ppm	-0.0014 ppm	-0.0012 ppm	0.0001 ppm
Concentration per Run 2	0.0857 ppm	0.0005 ppm	8.3565 ppm	0.0020 ppm	-0.0021 ppm	-0.0012 ppm	-0.0007 ppm
Concentration per Run 3	0.0853 ppm	0.0005 ppm	8.4760 ppm	0.0016 ppm	-0.0013 ppm	0.0002 ppm	0.0019 ppm
Concentration RSD	0.5 %	3.2 %	2.2 %	16.8 %	26.7 %	109.3 %	320.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	15.2880 ppm	0.0005 ppm	0.0936 ppm	0.0909 ppm	-0.0013 ppm	0.0061 ppm	0.1056 ppm
Concentration per Run 1	15.3571 ppm	0.0008 ppm	0.0926 ppm	0.0910 ppm	-0.0002 ppm	0.0060 ppm	0.1057 ppm
Concentration per Run 2	15.2606 ppm	0.0008 ppm	0.0943 ppm	0.0910 ppm	-0.0023 ppm	0.0063 ppm	0.1053 ppm
Concentration per Run 3	15.2462 ppm	-0.0001 ppm	0.0940 ppm	0.0907 ppm	-0.0015 ppm	0.0061 ppm	0.1057 ppm
Concentration RSD	0.4 %	95.2 %	0.9 %	0.2 %	79.1 %	2.7 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	102.3380 %	98.1504 %	94.9715 %	100.3749 %	90.4569 %	95.9105 %	0.0049 ppm
Concentration per Run 1	103.7972 %	97.7753 %	94.8386 %	100.9855 %	89.8616 %	95.4904 %	0.0045 ppm
Concentration per Run 2	101.6933 %	98.3861 %	94.5734 %	100.1885 %	90.5979 %	96.1697 %	0.0049 ppm
Concentration per Run 3	101.5236 %	98.2898 %	95.5026 %	99.9508 %	90.9113 %	96.0714 %	0.0054 ppm
Concentration RSD	1.2 %	0.3 %	0.5 %	0.5 %	0.6 %	0.4 %	8.9 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2535446-01 WG2081457

Analysis started at: 6/26/2025 5:22:34 PM

Comments: <Comment>

Rack: 1

Vial: 45

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0019 ppm	60.0619 ppm	0.0355 ppm	0.1333 ppm	0.1715 ppm	0.0002 ppm	228.7832 ppm
Concentration per Run 1	0.0016 ppm	59.3329 ppm	0.0360 ppm	0.1336 ppm	0.1690 ppm	0.0002 ppm	222.3455 ppm
Concentration per Run 2	0.0018 ppm	60.0804 ppm	0.0360 ppm	0.1340 ppm	0.1719 ppm	0.0002 ppm	231.7895 ppm
Concentration per Run 3	0.0022 ppm	60.7724 ppm	0.0344 ppm	0.1325 ppm	0.1737 ppm	0.0002 ppm	232.2145 ppm
Concentration RSD	15.1 %	1.2 %	2.7 %	0.6 %	1.4 %	5.6 %	2.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0008 ppm	0.0310 ppm	0.7334 ppm	0.0190 ppm	377.2151 [SIC 500]	125.0312 ppm	44.2842 ppm
Concentration per Run 1	0.0013 ppm	0.0308 ppm	0.7308 ppm	0.0194 ppm	364.7710 ppm	125.1586 ppm	44.2622 ppm
Concentration per Run 2	0.0002 ppm	0.0310 ppm	0.7374 ppm	0.0186 ppm	384.5234 ppm	123.4273 ppm	44.4122 ppm
Concentration per Run 3	0.0008 ppm	0.0313 ppm	0.7320 ppm	0.0189 ppm	382.3509 ppm	126.5077 ppm	44.1781 ppm
Concentration RSD	76.4 %	0.7 %	0.5 %	2.2 %	2.9 %	1.2 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	6.1616 ppm	0.1505 ppm	54.1656 ppm	0.5605 ppm	-0.0012 ppm	-0.0058 ppm	0.0198 ppm
Concentration per Run 1	6.0165 ppm	0.1504 ppm	54.3225 ppm	0.5630 ppm	-0.0004 ppm	-0.0062 ppm	0.0192 ppm
Concentration per Run 2	6.2239 ppm	0.1508 ppm	53.4149 ppm	0.5538 ppm	-0.0017 ppm	-0.0047 ppm	0.0177 ppm
Concentration per Run 3	6.2444 ppm	0.1504 ppm	54.7595 ppm	0.5647 ppm	-0.0013 ppm	-0.0065 ppm	0.0226 ppm
Concentration RSD	2.0 %	0.2 %	1.3 %	1.0 %	55.5 %	16.4 %	12.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	12.6720 ppm	0.0224 ppm	0.4420 ppm	0.3675 ppm	-0.0598 ppm	0.0739 ppm	3.0813 ppm
Concentration per Run 1	12.7231 ppm	0.0219 ppm	0.4350 ppm	0.3666 ppm	-0.0609 ppm	0.0738 ppm	3.0859 ppm
Concentration per Run 2	12.5277 ppm	0.0217 ppm	0.4436 ppm	0.3683 ppm	-0.0582 ppm	0.0743 ppm	3.0812 ppm
Concentration per Run 3	12.7652 ppm	0.0236 ppm	0.4475 ppm	0.3675 ppm	-0.0602 ppm	0.0737 ppm	3.0769 ppm
Concentration RSD	1.0 %	4.7 %	1.4 %	0.2 %	2.3 %	0.5 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	93.4913 %	83.2514 %	75.0211 %	94.0997 %	56.0462 %	81.4436 %	0.0138 ppm
Concentration per Run 1	95.0439 %	83.0882 %	74.5784 %	96.1518 %	55.8374 %	81.3047 %	0.0137 ppm
Concentration per Run 2	92.6940 %	83.4166 %	75.9073 %	93.4714 %	56.8388 %	81.6501 %	0.0134 ppm
Concentration per Run 3	92.7360 %	83.2494 %	74.5777 %	92.6759 %	55.4625 %	81.3762 %	0.0142 ppm
Concentration RSD	1.4 %	0.2 %	1.0 %	1.9 %	1.3 %	0.2 %	3.0 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: WG2081457-3 WG2081457
 Analysis started at: 6/26/2025 5:29:59 PM
 Comments: <Comment>
 Rack: 1
 Vial: 46

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0561 ppm	64.4157 ppm	0.1709 ppm	0.9922 ppm	2.2450 ppm	0.0508 ppm	244.0770 ppm
Concentration per Run 1	0.0568 ppm	64.7529 ppm	0.1690 ppm	0.9965 ppm	2.2582 ppm	0.0507 ppm	243.1860 ppm
Concentration per Run 2	0.0562 ppm	64.1361 ppm	0.1691 ppm	0.9928 ppm	2.2312 ppm	0.0508 ppm	244.5718 ppm
Concentration per Run 3	0.0555 ppm	64.3581 ppm	0.1746 ppm	0.9871 ppm	2.2455 ppm	0.0510 ppm	244.4732 ppm
Concentration RSD	1.1 %	0.5 %	1.9 %	0.5 %	0.6 %	0.3 %	0.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0448 ppm	0.4656 ppm	0.9363 ppm	0.2979 ppm	389.1111 [SIC 500]	139.7481 ppm	52.7443 ppm
Concentration per Run 1	0.0444 ppm	0.4661 ppm	0.9398 ppm	0.2987 ppm	389.9303 ppm	142.8987 ppm	52.8957 ppm
Concentration per Run 2	0.0452 ppm	0.4667 ppm	0.9303 ppm	0.3013 ppm	388.8540 ppm	137.8121 ppm	52.7126 ppm
Concentration per Run 3	0.0449 ppm	0.4640 ppm	0.9388 ppm	0.2938 ppm	388.5489 ppm	138.5335 ppm	52.6247 ppm
Concentration RSD	0.9 %	0.3 %	0.6 %	1.3 %	0.2 %	2.0 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	6.8119 ppm	1.0759 ppm	64.9451 ppm	1.1076 ppm	0.5072 ppm	0.6319 ppm	0.1742 ppm
Concentration per Run 1	6.7963 ppm	1.0761 ppm	63.4432 ppm	1.1043 ppm	0.5036 ppm	0.6303 ppm	0.1768 ppm
Concentration per Run 2	6.8231 ppm	1.0782 ppm	65.5274 ppm	1.1083 ppm	0.5102 ppm	0.6337 ppm	0.1725 ppm
Concentration per Run 3	6.8162 ppm	1.0735 ppm	65.8645 ppm	1.1101 ppm	0.5077 ppm	0.6316 ppm	0.1733 ppm
Concentration RSD	0.2 %	0.2 %	2.0 %	0.3 %	0.7 %	0.3 %	1.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	14.4417 ppm	0.9881 ppm	1.5435 ppm	1.3910 ppm	0.0450 ppm	0.5744 ppm	3.5853 ppm
Concentration per Run 1	14.4206 ppm	0.9800 ppm	1.5430 ppm	1.3961 ppm	0.0441 ppm	0.5761 ppm	3.5787 ppm
Concentration per Run 2	14.4458 ppm	0.9938 ppm	1.5508 ppm	1.3858 ppm	0.0431 ppm	0.5717 ppm	3.5878 ppm
Concentration per Run 3	14.4588 ppm	0.9907 ppm	1.5367 ppm	1.3910 ppm	0.0480 ppm	0.5755 ppm	3.5892 ppm
Concentration RSD	0.1 %	0.7 %	0.5 %	0.4 %	5.8 %	0.4 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	92.5716 %	82.9908 %	74.2591 %	92.2142 %	55.2207 %	80.7724 %	0.0139 ppm
Concentration per Run 1	92.6880 %	82.6686 %	74.0749 %	92.5258 %	55.2761 %	80.4698 %	0.0145 ppm
Concentration per Run 2	92.7208 %	83.0619 %	74.5030 %	92.2703 %	55.2277 %	80.7512 %	0.0132 ppm
Concentration per Run 3	92.3061 %	83.2419 %	74.1995 %	91.8467 %	55.1584 %	81.0961 %	0.0141 ppm
Concentration RSD	0.2 %	0.4 %	0.3 %	0.4 %	0.1 %	0.4 %	4.6 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: WG2081457-4 WG2081457
 Analysis started at: 6/26/2025 5:37:11 PM
 Comments: <Comment>
 Rack: 1
 Vial: 47

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0020 ppm	60.7425 ppm	0.0348 ppm	0.1351 ppm	0.1741 ppm	0.0002 ppm	230.0007 ppm
Concentration per Run 1	0.0021 ppm	59.4531 ppm	0.0372 ppm	0.1356 ppm	0.1703 ppm	0.0002 ppm	226.1123 ppm
Concentration per Run 2	0.0020 ppm	61.6572 ppm	0.0336 ppm	0.1353 ppm	0.1764 ppm	0.0003 ppm	229.1832 ppm
Concentration per Run 3	0.0020 ppm	61.1172 ppm	0.0337 ppm	0.1343 ppm	0.1754 ppm	0.0002 ppm	234.7065 ppm
Concentration RSD	2.6 %	1.9 %	5.8 %	0.5 %	1.9 %	6.4 %	1.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0004 ppm	0.0314 ppm	0.7322 ppm	0.0190 ppm	379.7645 [SIC 500]	126.3550 ppm	44.3183 ppm
Concentration per Run 1	0.0004 ppm	0.0316 ppm	0.7284 ppm	0.0197 ppm	372.3926 ppm	122.8664 ppm	44.1547 ppm
Concentration per Run 2	0.0002 ppm	0.0314 ppm	0.7295 ppm	0.0192 ppm	382.1966 ppm	130.3739 ppm	44.2851 ppm
Concentration per Run 3	0.0006 ppm	0.0313 ppm	0.7386 ppm	0.0181 ppm	384.7044 ppm	125.8248 ppm	44.5151 ppm
Concentration RSD	50.9 %	0.5 %	0.8 %	4.4 %	1.7 %	3.0 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	6.2099 ppm	0.1529 ppm	54.6530 ppm	0.5670 ppm	-0.0009 ppm	-0.0061 ppm	0.0212 ppm
Concentration per Run 1	6.1064 ppm	0.1541 ppm	53.1288 ppm	0.5694 ppm	-0.0022 ppm	-0.0072 ppm	0.0222 ppm
Concentration per Run 2	6.2175 ppm	0.1532 ppm	56.5035 ppm	0.5670 ppm	-0.0002 ppm	-0.0054 ppm	0.0202 ppm
Concentration per Run 3	6.3059 ppm	0.1513 ppm	54.3267 ppm	0.5647 ppm	-0.0003 ppm	-0.0055 ppm	0.0211 ppm
Concentration RSD	1.6 %	0.9 %	3.1 %	0.4 %	126.7 %	16.8 %	4.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	12.8080 ppm	0.0222 ppm	0.4469 ppm	0.3698 ppm	-0.0606 ppm	0.0744 ppm	3.1145 ppm
Concentration per Run 1	12.8787 ppm	0.0214 ppm	0.4377 ppm	0.3685 ppm	-0.0607 ppm	0.0746 ppm	3.1413 ppm
Concentration per Run 2	12.8406 ppm	0.0239 ppm	0.4523 ppm	0.3698 ppm	-0.0618 ppm	0.0745 ppm	3.1135 ppm
Concentration per Run 3	12.7048 ppm	0.0213 ppm	0.4508 ppm	0.3709 ppm	-0.0592 ppm	0.0740 ppm	3.0886 ppm
Concentration RSD	0.7 %	6.5 %	1.8 %	0.3 %	2.2 %	0.4 %	0.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	93.9152 %	83.6854 %	75.0184 %	93.9165 %	55.9038 %	81.5742 %	0.0139 ppm
Concentration per Run 1	95.4039 %	83.4135 %	74.7884 %	95.8534 %	55.7035 %	81.1294 %	0.0131 ppm
Concentration per Run 2	93.6007 %	83.4342 %	74.8784 %	93.5060 %	55.7061 %	81.3012 %	0.0147 ppm
Concentration per Run 3	92.7409 %	84.2085 %	75.3884 %	92.3902 %	56.3016 %	82.2921 %	0.0139 ppm
Concentration RSD	1.4 %	0.5 %	0.4 %	1.9 %	0.6 %	0.8 %	5.8 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: WG2081457-5 WG2081457

Analysis started at: 6/26/2025 5:43:42 PM

Comments: <Comment>

Rack: 1

Vial: 48

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0551 ppm	61.6220 ppm	0.1739 ppm	1.0211 ppm	2.2606 ppm	0.0516 ppm	234.5581 ppm
Concentration per Run 1	0.0552 ppm	61.3268 ppm	0.1755 ppm	1.0169 ppm	2.2586 ppm	0.0514 ppm	233.6427 ppm
Concentration per Run 2	0.0548 ppm	62.1243 ppm	0.1735 ppm	1.0157 ppm	2.2791 ppm	0.0517 ppm	234.3873 ppm
Concentration per Run 3	0.0552 ppm	61.4149 ppm	0.1728 ppm	1.0306 ppm	2.2442 ppm	0.0518 ppm	235.6442 ppm
Concentration RSD	0.4 %	0.7 %	0.8 %	0.8 %	0.8 %	0.3 %	0.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0456 ppm	0.4751 ppm	0.9028 ppm	0.3043 ppm	374.1820 [SIC 500]	132.8537 ppm	51.3389 ppm
Concentration per Run 1	0.0447 ppm	0.4730 ppm	0.9069 ppm	0.3032 ppm	373.2521 ppm	132.4543 ppm	51.4305 ppm
Concentration per Run 2	0.0455 ppm	0.4706 ppm	0.9065 ppm	0.3010 ppm	373.4545 ppm	134.6009 ppm	51.4229 ppm
Concentration per Run 3	0.0465 ppm	0.4817 ppm	0.8950 ppm	0.3086 ppm	375.8395 ppm	131.5057 ppm	51.1632 ppm
Concentration RSD	2.0 %	1.2 %	0.7 %	1.3 %	0.4 %	1.2 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	6.5430 ppm	1.1196 ppm	63.7143 ppm	1.0995 ppm	0.5250 ppm	0.6302 ppm	0.1727 ppm
Concentration per Run 1	6.5140 ppm	1.1134 ppm	63.4551 ppm	1.1039 ppm	0.5267 ppm	0.6335 ppm	0.1760 ppm
Concentration per Run 2	6.5544 ppm	1.1111 ppm	64.6245 ppm	1.0979 ppm	0.5253 ppm	0.6298 ppm	0.1733 ppm
Concentration per Run 3	6.5605 ppm	1.1345 ppm	63.0632 ppm	1.0966 ppm	0.5232 ppm	0.6274 ppm	0.1687 ppm
Concentration RSD	0.4 %	1.2 %	1.3 %	0.4 %	0.3 %	0.5 %	2.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	13.8922 ppm	1.0412 [SIC 20]	1.5682 ppm	1.4098 ppm	0.0485 ppm	0.5793 ppm	3.4708 ppm
Concentration per Run 1	13.9822 ppm	1.0431 ppm	1.5585 ppm	1.4133 ppm	0.0498 ppm	0.5798 ppm	3.4730 ppm
Concentration per Run 2	13.9111 ppm	1.0376 ppm	1.5821 ppm	1.4097 ppm	0.0472 ppm	0.5810 ppm	3.4692 ppm
Concentration per Run 3	13.7832 ppm	1.0430 ppm	1.5641 ppm	1.4064 ppm	0.0485 ppm	0.5771 ppm	3.4702 ppm
Concentration RSD	0.7 %	0.3 %	0.8 %	0.2 %	2.7 %	0.3 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	93.0286 %	82.9906 %	74.6213 %	92.9524 %	55.5323 %	80.6268 %	0.0134 ppm
Concentration per Run 1	93.6047 %	83.0496 %	74.3182 %	93.6404 %	55.1701 %	80.8397 %	0.0131 ppm
Concentration per Run 2	92.3471 %	83.3590 %	74.1765 %	92.4417 %	55.3644 %	81.0008 %	0.0140 ppm
Concentration per Run 3	93.1339 %	82.5631 %	75.3692 %	92.7752 %	56.0623 %	80.0399 %	0.0133 ppm
Concentration RSD	0.7 %	0.5 %	0.9 %	0.7 %	0.8 %	0.6 %	3.4 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: WG2081457-6d5 WG2081457
 Analysis started at: 6/26/2025 5:51:10 PM
 Comments: <Comment>
 Rack: 1
 Vial: 49

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	12.1838 ppm	0.0071 ppm	0.0325 ppm	0.0346 ppm	0.0000 ppm	44.8072 ppm
Concentration per Run 1	0.0004 ppm	11.9091 ppm	0.0075 ppm	0.0328 ppm	0.0338 ppm	0.0000 ppm	44.4034 ppm
Concentration per Run 2	0.0002 ppm	12.3706 ppm	0.0074 ppm	0.0326 ppm	0.0349 ppm	0.0001 ppm	44.8105 ppm
Concentration per Run 3	0.0004 ppm	12.2717 ppm	0.0066 ppm	0.0322 ppm	0.0349 ppm	0.0000 ppm	45.2078 ppm
Concentration RSD	47.0 %	2.0 %	6.8 %	1.0 %	1.8 %	88.7 %	0.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0001 ppm	0.0066 ppm	0.1487 ppm	0.0051 ppm	85.4074 ppm	29.1861 ppm	10.8406 ppm
Concentration per Run 1	-0.0001 ppm	0.0066 ppm	0.1482 ppm	0.0052 ppm	84.3122 ppm	27.9864 ppm	10.8680 ppm
Concentration per Run 2	0.0000 ppm	0.0066 ppm	0.1493 ppm	0.0050 ppm	85.6641 ppm	30.2985 ppm	10.8314 ppm
Concentration per Run 3	-0.0002 ppm	0.0065 ppm	0.1485 ppm	0.0052 ppm	86.2460 ppm	29.2735 ppm	10.8223 ppm
Concentration RSD	89.8 %	0.7 %	0.4 %	2.9 %	1.2 %	4.0 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.2339 ppm	0.0312 ppm	12.3730 ppm	0.0950 ppm	0.0000 ppm	-0.0001 ppm	0.0049 ppm
Concentration per Run 1	1.2194 ppm	0.0313 ppm	11.8705 ppm	0.0944 ppm	0.0002 ppm	0.0002 ppm	0.0055 ppm
Concentration per Run 2	1.2356 ppm	0.0313 ppm	12.8388 ppm	0.0950 ppm	-0.0001 ppm	0.0001 ppm	0.0040 ppm
Concentration per Run 3	1.2468 ppm	0.0312 ppm	12.4096 ppm	0.0956 ppm	-0.0002 ppm	-0.0006 ppm	0.0053 ppm
Concentration RSD	1.1 %	0.2 %	3.9 %	0.7 %	487.3 %	492.1 %	17.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.1817 ppm	0.0045 ppm	0.0871 ppm	0.0732 ppm	-0.0098 ppm	0.0147 ppm	0.6299 ppm
Concentration per Run 1	2.1734 ppm	0.0046 ppm	0.0855 ppm	0.0730 ppm	-0.0103 ppm	0.0148 ppm	0.6275 ppm
Concentration per Run 2	2.1845 ppm	0.0043 ppm	0.0880 ppm	0.0733 ppm	-0.0088 ppm	0.0144 ppm	0.6290 ppm
Concentration per Run 3	2.1871 ppm	0.0047 ppm	0.0878 ppm	0.0732 ppm	-0.0102 ppm	0.0148 ppm	0.6332 ppm
Concentration RSD	0.3 %	3.8 %	1.6 %	0.2 %	8.7 %	1.6 %	0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.2566 %	91.9817 %	85.6170 %	99.1311 %	77.4636 %	90.4795 %	0.0034 ppm
Concentration per Run 1	100.8767 %	92.0107 %	85.8598 %	100.4856 %	77.9802 %	90.5377 %	0.0035 ppm
Concentration per Run 2	99.0809 %	92.1607 %	85.6582 %	98.7453 %	77.3894 %	90.6963 %	0.0033 ppm
Concentration per Run 3	97.8123 %	91.7738 %	85.3331 %	98.1623 %	77.0214 %	90.2044 %	0.0036 ppm
Concentration RSD	1.6 %	0.2 %	0.3 %	1.2 %	0.6 %	0.3 %	3.1 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: CCV
Analysis started at: 6/26/2025 5:57:52 PM
Comments: <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5057 ppm	0.4970 ppm	0.4651 ppm	0.5027 ppm	0.4924 ppm	0.4888 ppm	0.4957 ppm
Concentration per Run 1	0.5049 ppm	0.4898 ppm	0.4652 ppm	0.5044 ppm	0.4817 ppm	0.4746 ppm	0.4836 ppm
Concentration per Run 2	0.5061 ppm	0.4975 ppm	0.4634 ppm	0.5016 ppm	0.4964 ppm	0.4955 ppm	0.5024 ppm
Concentration per Run 3	0.5062 ppm	0.5037 ppm	0.4668 ppm	0.5021 ppm	0.4990 ppm	0.4963 ppm	0.5012 ppm
Recovery Percentage 1	101.145 %	99.400 %	93.030 %	100.544 %	98.474 %	97.765 %	99.146 %
Concentration RSD	0.1 %	1.4 %	0.4 %	0.3 %	1.9 %	2.5 %	2.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4801 ppm	0.5115 ppm	0.5103 ppm	0.4968 ppm	0.5072 ppm	5.3037 ppm	0.5147 ppm
Concentration per Run 1	0.4808 ppm	0.5121 ppm	0.5088 ppm	0.4960 ppm	0.4951 ppm	5.3106 ppm	0.5110 ppm
Concentration per Run 2	0.4806 ppm	0.5112 ppm	0.5125 ppm	0.4959 ppm	0.5131 ppm	5.2653 ppm	0.5157 ppm
Concentration per Run 3	0.4788 ppm	0.5111 ppm	0.5098 ppm	0.4984 ppm	0.5135 ppm	5.3352 ppm	0.5172 ppm
Recovery Percentage 1	96.012 %	102.293 %	102.069 %	99.354 %	101.446 %	106.074 %	102.934 %
Concentration RSD	0.2 %	0.1 %	0.4 %	0.3 %	2.1 %	0.7 %	0.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4930 ppm	0.4913 ppm	9.9724 ppm	0.4778 ppm	0.4866 ppm	0.4816 ppm	0.4974 ppm
Concentration per Run 1	0.4782 ppm	0.4921 ppm	9.9739 ppm	0.4783 ppm	0.4864 ppm	0.4822 ppm	0.4979 ppm
Concentration per Run 2	0.5000 ppm	0.4902 ppm	9.9008 ppm	0.4763 ppm	0.4848 ppm	0.4809 ppm	0.4950 ppm
Concentration per Run 3	0.5009 ppm	0.4917 ppm	10.0426 ppm	0.4789 ppm	0.4885 ppm	0.4819 ppm	0.4994 ppm
Recovery Percentage 1	98.607 %	98.268 %	99.724 %	95.563 %	97.310 %	96.328 %	99.480 %
Concentration RSD	2.6 %	0.2 %	0.7 %	0.3 %	0.4 %	0.1 %	0.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.2291 ppm	0.4645 ppm	0.5189 ppm	0.5073 ppm	0.4872 ppm	0.5023 ppm	0.5039 ppm
Concentration per Run 1	5.2298 ppm	0.4655 ppm	0.5072 ppm	0.5059 ppm	0.4853 ppm	0.5019 ppm	0.5063 ppm
Concentration per Run 2	5.2204 ppm	0.4626 ppm	0.5236 ppm	0.5098 ppm	0.4858 ppm	0.5034 ppm	0.5022 ppm
Concentration per Run 3	5.2371 ppm	0.4653 ppm	0.5260 ppm	0.5063 ppm	0.4906 ppm	0.5015 ppm	0.5033 ppm
Recovery Percentage 1	99.602 %	92.895 %	103.788 %	101.462 %	97.448 %	100.450 %	100.783 %
Concentration RSD	0.2 %	0.3 %	2.0 %	0.4 %	0.6 %	0.2 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.3378 %	99.1919 %	96.9403 %	101.2866 %	90.8272 %	97.7457 %	0.5288 ppm
Concentration per Run 1	104.1267 %	99.0918 %	96.8694 %	104.1434 %	90.8669 %	97.6990 %	0.5304 ppm
Concentration per Run 2	100.0416 %	99.1539 %	97.2161 %	100.0628 %	91.0179 %	97.8206 %	0.5245 ppm
Concentration per Run 3	99.8450 %	99.3301 %	96.7355 %	99.6536 %	90.5967 %	97.7176 %	0.5315 ppm
Recovery Percentage 1							105.759 %
Concentration RSD	2.4 %	0.1 %	0.3 %	2.5 %	0.2 %	0.1 %	0.7 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: CCB
Analysis started at: 6/26/2025 6:04:11 PM
Comments: <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0008 ppm	-0.0012 ppm	0.0013 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 1	-0.0001 ppm	0.0012 ppm	-0.0005 ppm	0.0013 ppm	0.0000 ppm	0.0000 ppm	-0.0020 ppm
Concentration per Run 2	0.0000 ppm	0.0009 ppm	-0.0012 ppm	0.0013 ppm	0.0000 ppm	0.0000 ppm	0.0010 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	-0.0020 ppm	0.0012 ppm	0.0000 ppm	0.0000 ppm	0.0010 ppm
Recovery Percentage 1	-0.798 %	0.803 %	-24.095 %	4.211 %	0.265 %	0.138 %	0.016 %
Concentration RSD	81.9 %	64.6 %	63.6 %	6.2 %	117.5 %	295.9 %	10,874.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0023 ppm	0.0092 ppm	-0.0001 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0003 ppm	0.0030 ppm	0.0113 ppm	0.0015 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0003 ppm	0.0025 ppm	0.0062 ppm	-0.0014 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0003 ppm	0.0016 ppm	0.0101 ppm	-0.0004 ppm
Recovery Percentage 1	-0.197 %	-0.179 %	0.554 %	2.974 %	4.692 %	0.369 %	-0.102 %
Concentration RSD	301.0 %	67.7 %	350.5 %	14.9 %	30.5 %	28.9 %	1,435.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0008 ppm	0.0058 ppm	0.0001 ppm	0.0001 ppm	0.0006 ppm	0.0013 ppm
Concentration per Run 1	0.0000 ppm	0.0009 ppm	0.0067 ppm	0.0002 ppm	0.0002 ppm	0.0006 ppm	0.0021 ppm
Concentration per Run 2	0.0001 ppm	0.0008 ppm	0.0057 ppm	0.0000 ppm	0.0002 ppm	0.0005 ppm	0.0006 ppm
Concentration per Run 3	-0.0001 ppm	0.0006 ppm	0.0049 ppm	0.0002 ppm	-0.0001 ppm	0.0006 ppm	0.0013 ppm
Recovery Percentage 1	0.241 %	1.535 %	0.290 %	0.562 %	0.890 %	1.168 %	13.399 %
Concentration RSD	349.3 %	20.5 %	15.8 %	78.5 %	200.0 %	9.8 %	53.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	-0.0002 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0001 ppm	-0.0002 ppm
Concentration per Run 1	-0.0006 ppm	0.0009 ppm	0.0000 ppm	-0.0001 ppm	0.0009 ppm	0.0002 ppm	-0.0003 ppm
Concentration per Run 2	0.0002 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0005 ppm	0.0001 ppm	-0.0001 ppm
Concentration per Run 3	-0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0004 ppm	0.0000 ppm	-0.0001 ppm
Recovery Percentage 1	-0.049 %	0.626 %	0.084 %	-0.158 %	1.301 %	1.063 %	-3.214 %
Concentration RSD	153.1 %	155.9 %	257.5 %	1,084.0 %	284.6 %	89.9 %	49.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	102.1215 %	101.8321 %	98.6684 %	100.5594 %	99.3878 %	99.8190 %	0.0000 ppm
Concentration per Run 1	104.3193 %	101.5783 %	98.4781 %	102.1683 %	99.5805 %	99.6142 %	0.0002 ppm
Concentration per Run 2	101.1133 %	101.8292 %	99.0623 %	99.7087 %	99.7409 %	99.7280 %	-0.0002 ppm
Concentration per Run 3	100.9321 %	102.0887 %	98.4647 %	99.8013 %	98.8422 %	100.1149 %	0.0002 ppm
Recovery Percentage 1							0.415 %
Concentration RSD	1.9 %	0.3 %	0.3 %	1.4 %	0.5 %	0.3 %	550.4 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: WG2083591-2d2 WG2083591
Analysis started at: 6/26/2025 6:13:11 PM
Comments: <Comment>
Rack: 2
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.3453 ppm	18.1463 ppm	0.7461 ppm	0.7884 ppm	0.8323 ppm	0.6313 ppm	16.5235 ppm
Concentration per Run 1	0.3455 ppm	17.1796 ppm	0.7412 ppm	0.7899 ppm	0.7878 ppm	0.5979 ppm	15.6326 ppm
Concentration per Run 2	0.3445 ppm	18.4654 ppm	0.7475 ppm	0.7878 ppm	0.8446 ppm	0.6400 ppm	16.7280 ppm
Concentration per Run 3	0.3458 ppm	18.7938 ppm	0.7497 ppm	0.7875 ppm	0.8645 ppm	0.6559 ppm	17.2099 ppm
Concentration RSD	0.2 %	4.7 %	0.6 %	0.2 %	4.8 %	4.7 %	4.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.5234 ppm	1.0632 ppm	0.6953 ppm	0.3997 ppm	20.7463 ppm	6.2126 ppm	6.8712 ppm
Concentration per Run 1	0.5305 ppm	1.0713 ppm	0.6899 ppm	0.4018 ppm	19.6033 ppm	5.9098 ppm	6.8670 ppm
Concentration per Run 2	0.5166 ppm	1.0561 ppm	0.6995 ppm	0.3967 ppm	21.0286 ppm	6.3410 ppm	6.8581 ppm
Concentration per Run 3	0.5230 ppm	1.0621 ppm	0.6964 ppm	0.4008 ppm	21.6070 ppm	6.3870 ppm	6.8885 ppm
Concentration RSD	1.3 %	0.7 %	0.7 %	0.7 %	5.0 %	4.2 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.5708 ppm	0.6332 ppm	7.5493 ppm	0.6633 ppm	0.6112 ppm	0.5008 ppm	0.3869 ppm
Concentration per Run 1	1.4840 ppm	0.6366 ppm	7.1832 ppm	0.6633 ppm	0.6083 ppm	0.4967 ppm	0.3826 ppm
Concentration per Run 2	1.5925 ppm	0.6294 ppm	7.7200 ppm	0.6617 ppm	0.6121 ppm	0.5021 ppm	0.3887 ppm
Concentration per Run 3	1.6360 ppm	0.6335 ppm	7.7447 ppm	0.6649 ppm	0.6131 ppm	0.5036 ppm	0.3894 ppm
Concentration RSD	5.0 %	0.6 %	4.2 %	0.2 %	0.4 %	0.7 %	1.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	6.8643 ppm	0.4159 ppm	0.8541 ppm	1.4342 ppm	0.8398 ppm	0.6884 ppm	1.2103 ppm
Concentration per Run 1	6.8278 ppm	0.4161 ppm	0.8078 ppm	1.4266 ppm	0.8319 ppm	0.6860 ppm	1.2175 ppm
Concentration per Run 2	6.8551 ppm	0.4139 ppm	0.8656 ppm	1.4409 ppm	0.8450 ppm	0.6914 ppm	1.2023 ppm
Concentration per Run 3	6.9101 ppm	0.4175 ppm	0.8888 ppm	1.4350 ppm	0.8427 ppm	0.6877 ppm	1.2112 ppm
Concentration RSD	0.6 %	0.4 %	4.9 %	0.5 %	0.8 %	0.4 %	0.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	108.6560 %	105.9497 %	104.1444 %	109.4433 %	86.0451 %	98.1473 %	0.4023 ppm
Concentration per Run 1	111.7618 %	105.5632 %	105.0598 %	115.2162 %	86.5931 %	97.9301 %	0.3838 ppm
Concentration per Run 2	107.2966 %	106.1360 %	103.4230 %	107.9368 %	85.7919 %	98.3436 %	0.4113 ppm
Concentration per Run 3	106.9096 %	106.1498 %	103.9505 %	105.1770 %	85.7504 %	98.1682 %	0.4119 ppm
Concentration RSD	2.5 %	0.3 %	0.8 %	4.7 %	0.6 %	0.2 %	4.0 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: WG2083591-3d2 WG2083591
Analysis started at: 6/26/2025 6:19:25 PM
Comments: <Comment>
Rack: 2
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.3214 ppm	17.4804 ppm	0.7014 ppm	0.7347 ppm	0.8402 ppm	0.6268 ppm	16.4284 ppm
Concentration per Run 1	0.3238 ppm	17.2733 ppm	0.7031 ppm	0.7383 ppm	0.8277 ppm	0.6111 ppm	15.8820 ppm
Concentration per Run 2	0.3192 ppm	17.5358 ppm	0.7016 ppm	0.7333 ppm	0.8438 ppm	0.6327 ppm	16.6682 ppm
Concentration per Run 3	0.3213 ppm	17.6321 ppm	0.6993 ppm	0.7325 ppm	0.8493 ppm	0.6366 ppm	16.7349 ppm
Concentration RSD	0.7 %	1.1 %	0.3 %	0.4 %	1.3 %	2.2 %	2.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4570 ppm	0.9879 ppm	0.6429 ppm	0.3751 ppm	20.7460 ppm	6.0886 ppm	6.3222 ppm
Concentration per Run 1	0.4654 ppm	0.9999 ppm	0.6378 ppm	0.3816 ppm	20.1605 ppm	6.1475 ppm	6.3680 ppm
Concentration per Run 2	0.4554 ppm	0.9839 ppm	0.6493 ppm	0.3678 ppm	20.9659 ppm	6.0418 ppm	6.2779 ppm
Concentration per Run 3	0.4504 ppm	0.9798 ppm	0.6416 ppm	0.3758 ppm	21.1115 ppm	6.0765 ppm	6.3208 ppm
Concentration RSD	1.7 %	1.1 %	0.9 %	1.8 %	2.5 %	0.9 %	0.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.5729 ppm	0.5965 ppm	7.8432 ppm	0.6137 ppm	0.5679 ppm	0.4743 ppm	0.3654 ppm
Concentration per Run 1	1.5292 ppm	0.6025 ppm	7.9453 ppm	0.6186 ppm	0.5706 ppm	0.4758 ppm	0.3633 ppm
Concentration per Run 2	1.5902 ppm	0.5945 ppm	7.7886 ppm	0.6166 ppm	0.5698 ppm	0.4744 ppm	0.3648 ppm
Concentration per Run 3	1.5995 ppm	0.5925 ppm	7.7956 ppm	0.6059 ppm	0.5632 ppm	0.4726 ppm	0.3680 ppm
Concentration RSD	2.4 %	0.9 %	1.1 %	1.1 %	0.7 %	0.3 %	0.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.5091 ppm	0.3819 ppm	0.8439 ppm	1.3224 ppm	0.7359 ppm	0.6416 ppm	1.1256 ppm
Concentration per Run 1	5.5578 ppm	0.3850 ppm	0.8284 ppm	1.3223 ppm	0.7363 ppm	0.6401 ppm	1.1397 ppm
Concentration per Run 2	5.5085 ppm	0.3835 ppm	0.8481 ppm	1.3247 ppm	0.7380 ppm	0.6446 ppm	1.1246 ppm
Concentration per Run 3	5.4609 ppm	0.3772 ppm	0.8552 ppm	1.3202 ppm	0.7334 ppm	0.6402 ppm	1.1124 ppm
Concentration RSD	0.9 %	1.1 %	1.6 %	0.2 %	0.3 %	0.4 %	1.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	106.9317 %	105.9543 %	103.3431 %	101.3666 %	86.2131 %	97.7385 %	0.3992 ppm
Concentration per Run 1	109.1571 %	105.5058 %	103.7116 %	103.8900 %	86.1228 %	97.3489 %	0.4056 ppm
Concentration per Run 2	105.6745 %	106.0947 %	103.1705 %	100.3114 %	85.6640 %	97.8684 %	0.3954 ppm
Concentration per Run 3	105.9636 %	106.2625 %	103.1471 %	99.8985 %	86.8523 %	97.9981 %	0.3966 ppm
Concentration RSD	1.8 %	0.4 %	0.3 %	2.2 %	0.7 %	0.4 %	1.4 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: CCV
Analysis started at: 6/26/2025 6:25:40 PM
Comments: <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5053 ppm	0.4940 ppm	0.4678 ppm	0.5012 ppm	0.4919 ppm	0.4888 ppm	0.4969 ppm
Concentration per Run 1	0.5073 ppm	0.4763 ppm	0.4688 ppm	0.5056 ppm	0.4763 ppm	0.4737 ppm	0.4787 ppm
Concentration per Run 2	0.5054 ppm	0.4957 ppm	0.4681 ppm	0.5007 ppm	0.4963 ppm	0.4962 ppm	0.5070 ppm
Concentration per Run 3	0.5033 ppm	0.5101 ppm	0.4664 ppm	0.4974 ppm	0.5031 ppm	0.4965 ppm	0.5051 ppm
Recovery Percentage 1	101.069 %	98.805 %	93.554 %	100.243 %	98.378 %	97.756 %	99.389 %
Concentration RSD	0.4 %	3.4 %	0.3 %	0.8 %	2.8 %	2.7 %	3.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4830 ppm	0.5108 ppm	0.5099 ppm	0.4944 ppm	0.4941 ppm	5.2466 ppm	0.5123 ppm
Concentration per Run 1	0.4853 ppm	0.5138 ppm	0.5083 ppm	0.4989 ppm	0.4804 ppm	5.1131 ppm	0.5101 ppm
Concentration per Run 2	0.4834 ppm	0.5104 ppm	0.5087 ppm	0.4956 ppm	0.5008 ppm	5.1362 ppm	0.5147 ppm
Concentration per Run 3	0.4802 ppm	0.5081 ppm	0.5128 ppm	0.4887 ppm	0.5010 ppm	5.4905 ppm	0.5121 ppm
Recovery Percentage 1	96.596 %	102.155 %	101.985 %	98.871 %	98.815 %	104.932 %	102.458 %
Concentration RSD	0.5 %	0.6 %	0.5 %	1.1 %	2.4 %	4.0 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4928 ppm	0.4925 ppm	9.9265 ppm	0.4798 ppm	0.4880 ppm	0.4812 ppm	0.4930 ppm
Concentration per Run 1	0.4779 ppm	0.4955 ppm	9.6767 ppm	0.4789 ppm	0.4881 ppm	0.4810 ppm	0.4943 ppm
Concentration per Run 2	0.5001 ppm	0.4920 ppm	9.7063 ppm	0.4800 ppm	0.4886 ppm	0.4807 ppm	0.4926 ppm
Concentration per Run 3	0.5003 ppm	0.4901 ppm	10.3966 ppm	0.4806 ppm	0.4873 ppm	0.4818 ppm	0.4921 ppm
Recovery Percentage 1	98.554 %	98.506 %	99.265 %	95.967 %	97.592 %	96.236 %	98.597 %
Concentration RSD	2.6 %	0.6 %	4.1 %	0.2 %	0.1 %	0.1 %	0.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.2084 ppm	0.4661 ppm	0.5127 ppm	0.5084 ppm	0.4909 ppm	0.5054 ppm	0.5028 ppm
Concentration per Run 1	5.2031 ppm	0.4650 ppm	0.4958 ppm	0.5097 ppm	0.4911 ppm	0.5065 ppm	0.5017 ppm
Concentration per Run 2	5.2084 ppm	0.4668 ppm	0.5179 ppm	0.5076 ppm	0.4906 ppm	0.5035 ppm	0.5036 ppm
Concentration per Run 3	5.2137 ppm	0.4665 ppm	0.5243 ppm	0.5079 ppm	0.4911 ppm	0.5060 ppm	0.5029 ppm
Recovery Percentage 1	99.207 %	93.223 %	102.538 %	101.680 %	98.189 %	101.073 %	100.551 %
Concentration RSD	0.1 %	0.2 %	2.9 %	0.2 %	0.1 %	0.3 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.0802 %	99.6018 %	97.7158 %	101.9514 %	91.2554 %	98.2847 %	0.5224 ppm
Concentration per Run 1	103.3274 %	99.0331 %	97.6278 %	105.0857 %	91.4899 %	97.6038 %	0.5090 ppm
Concentration per Run 2	99.6264 %	99.8103 %	98.1270 %	100.3763 %	91.2226 %	98.5155 %	0.5098 ppm
Concentration per Run 3	100.2868 %	99.9619 %	97.3926 %	100.3923 %	91.0535 %	98.7350 %	0.5483 ppm
Recovery Percentage 1							104.477 %
Concentration RSD	2.0 %	0.5 %	0.4 %	2.7 %	0.2 %	0.6 %	4.3 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: CCB
Analysis started at: 6/26/2025 6:31:59 PM
Comments: <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0154 ppm	-0.0005 ppm	0.0019 ppm	0.0000 ppm	0.0000 ppm	0.0065 ppm
Concentration per Run 1	0.0000 ppm	0.0229 ppm	-0.0003 ppm	0.0019 ppm	0.0001 ppm	0.0000 ppm	0.0050 ppm
Concentration per Run 2	0.0000 ppm	0.0150 ppm	0.0004 ppm	0.0018 ppm	0.0000 ppm	0.0000 ppm	0.0066 ppm
Concentration per Run 3	-0.0003 ppm	0.0084 ppm	-0.0016 ppm	0.0019 ppm	-0.0001 ppm	0.0000 ppm	0.0080 ppm
Recovery Percentage 1	-1.345 %	15.430 %	-10.127 %	6.240 %	0.182 %	0.215 %	6.548 %
Concentration RSD	149.6 %	46.9 %	193.0 %	3.3 %	363.6 %	45.7 %	22.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0012 ppm	-0.0049 ppm	0.0000 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0001 ppm	0.0006 ppm	-0.0048 ppm	0.0011 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0002 ppm	0.0019 ppm	-0.0029 ppm	-0.0002 ppm
Concentration per Run 3	0.0001 ppm	-0.0003 ppm	0.0000 ppm	0.0002 ppm	0.0011 ppm	-0.0069 ppm	-0.0010 ppm
Recovery Percentage 1	1.188 %	-0.250 %	1.228 %	1.832 %	2.448 %	-0.195 %	-0.024 %
Concentration RSD	89.2 %	411.7 %	112.9 %	27.1 %	50.6 %	40.8 %	4,294.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	0.0009 ppm	0.0018 ppm	-0.0001 ppm	-0.0004 ppm	0.0008 ppm	0.0002 ppm
Concentration per Run 1	0.0001 ppm	0.0009 ppm	0.0019 ppm	0.0000 ppm	-0.0003 ppm	0.0012 ppm	0.0004 ppm
Concentration per Run 2	0.0000 ppm	0.0010 ppm	0.0036 ppm	-0.0003 ppm	-0.0002 ppm	0.0005 ppm	-0.0005 ppm
Concentration per Run 3	0.0000 ppm	0.0008 ppm	-0.0002 ppm	-0.0002 ppm	-0.0007 ppm	0.0006 ppm	0.0008 ppm
Recovery Percentage 1	0.592 %	1.811 %	0.088 %	-0.557 %	-4.202 %	1.573 %	2.194 %
Concentration RSD	103.4 %	8.7 %	108.1 %	111.5 %	68.2 %	50.1 %	314.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0019 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	-0.0011 ppm	0.0001 ppm	-0.0002 ppm
Concentration per Run 1	0.0015 ppm	0.0004 ppm	0.0001 ppm	0.0000 ppm	-0.0002 ppm	0.0001 ppm	-0.0002 ppm
Concentration per Run 2	0.0018 ppm	0.0003 ppm	0.0000 ppm	0.0001 ppm	-0.0022 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 3	0.0024 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm	-0.0009 ppm	0.0003 ppm	-0.0002 ppm
Recovery Percentage 1	0.381 %	0.500 %	0.262 %	0.051 %	-5.508 %	1.029 %	-3.683 %
Concentration RSD	24.2 %	56.4 %	82.7 %	2,064.6 %	92.9 %	141.6 %	44.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	102.7550 %	102.3269 %	99.7919 %	101.7956 %	98.3091 %	100.1149 %	-0.0001 ppm
Concentration per Run 1	105.1425 %	102.0552 %	99.6654 %	103.7587 %	97.4039 %	99.8777 %	0.0000 ppm
Concentration per Run 2	101.8623 %	102.9131 %	98.5991 %	101.2111 %	96.5107 %	100.5812 %	-0.0004 ppm
Concentration per Run 3	101.2600 %	102.0125 %	101.1113 %	100.4169 %	101.0129 %	99.8859 %	0.0000 ppm
Recovery Percentage 1							-1.142 %
Concentration RSD	2.0 %	0.5 %	1.3 %	1.7 %	2.4 %	0.4 %	198.4 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: WG2082423-1 WG2082423

Analysis started at: 6/26/2025 6:46:05 PM

Comments: <Comment>

Rack: 1

Vial: 55

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0103 ppm	-0.0002 ppm	0.0022 ppm	0.0012 ppm	0.0000 ppm	0.3037 ppm
Concentration per Run 1	-0.0002 ppm	0.0097 ppm	-0.0002 ppm	0.0019 ppm	0.0012 ppm	0.0000 ppm	0.3004 ppm
Concentration per Run 2	-0.0001 ppm	0.0095 ppm	0.0005 ppm	0.0022 ppm	0.0012 ppm	0.0000 ppm	0.3054 ppm
Concentration per Run 3	-0.0002 ppm	0.0117 ppm	-0.0010 ppm	0.0023 ppm	0.0012 ppm	0.0000 ppm	0.3054 ppm
Recovery Percentage 1	-2.987 %	10.300 %	-4.740 %	7.195 %	11.851 %	0.541 %	303.708 %
Concentration RSD	27.5 %	11.9 %	317.5 %	8.6 %	2.8 %	76.7 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0017 ppm	0.0835 ppm	0.0426 ppm	0.0665 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0005 ppm	0.0016 ppm	0.0834 ppm	0.0416 ppm	0.0675 ppm
Concentration per Run 2	0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0017 ppm	0.0831 ppm	0.0450 ppm	0.0667 ppm
Concentration per Run 3	0.0000 ppm	0.0003 ppm	0.0000 ppm	0.0018 ppm	0.0840 ppm	0.0411 ppm	0.0654 ppm
Recovery Percentage 1	0.641 %	0.621 %	1.916 %	16.897 %	166.973 %	1.703 %	66.520 %
Concentration RSD	87.4 %	96.5 %	134.2 %	6.7 %	0.6 %	5.0 %	1.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0011 ppm	0.0004 ppm	0.4751 ppm	0.0004 ppm	0.0002 ppm	0.0000 ppm	0.0011 ppm
Concentration per Run 1	0.0010 ppm	0.0005 ppm	0.4808 ppm	0.0004 ppm	0.0003 ppm	-0.0002 ppm	0.0016 ppm
Concentration per Run 2	0.0011 ppm	0.0003 ppm	0.4787 ppm	0.0004 ppm	0.0003 ppm	-0.0003 ppm	0.0008 ppm
Concentration per Run 3	0.0011 ppm	0.0004 ppm	0.4658 ppm	0.0003 ppm	0.0000 ppm	0.0005 ppm	0.0009 ppm
Recovery Percentage 1	10.642 %	0.781 %	23.755 %	1.575 %	2.028 %	-0.011 %	10.881 %
Concentration RSD	6.3 %	27.4 %	1.7 %	23.5 %	94.5 %	8,246.5 %	37.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0168 ppm	-0.0002 ppm	0.0026 ppm	0.0002 ppm	-0.0006 ppm	0.0001 ppm	0.0040 ppm
Concentration per Run 1	0.0168 ppm	-0.0002 ppm	0.0026 ppm	0.0001 ppm	-0.0009 ppm	0.0001 ppm	0.0039 ppm
Concentration per Run 2	0.0167 ppm	-0.0001 ppm	0.0026 ppm	0.0002 ppm	0.0010 ppm	0.0002 ppm	0.0041 ppm
Concentration per Run 3	0.0169 ppm	-0.0004 ppm	0.0026 ppm	0.0004 ppm	-0.0018 ppm	-0.0001 ppm	0.0041 ppm
Recovery Percentage 1	3.358 %	-0.402 %	25.816 %	2.494 %	-2.823 %	0.841 %	80.643 %
Concentration RSD	0.6 %	70.4 %	0.5 %	52.6 %	259.2 %	208.2 %	3.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.7707 %	102.0248 %	99.9806 %	97.9482 %	104.5780 %	99.2062 %	0.0000 ppm
Concentration per Run 1	103.2411 %	102.0820 %	99.9794 %	98.2383 %	104.2014 %	99.1837 %	0.0000 ppm
Concentration per Run 2	101.6903 %	102.2760 %	100.3591 %	98.1009 %	105.3312 %	99.3899 %	-0.0002 ppm
Concentration per Run 3	100.3807 %	101.7165 %	99.6035 %	97.5053 %	104.2014 %	99.0451 %	0.0001 ppm
Recovery Percentage 1							-0.366 %
Concentration RSD	1.4 %	0.3 %	0.4 %	0.4 %	0.6 %	0.2 %	422.5 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: WG2082423-2 WG2082423

Analysis started at: 6/26/2025 6:52:45 PM

Comments: <Comment>

Rack: 1

Vial: 56

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0567 ppm	2.3462 ppm	0.1179 ppm	1.0046 ppm	2.2203 ppm	0.0539 ppm	10.0317 ppm
Concentration per Run 1	0.0567 ppm	2.3018 ppm	0.1163 ppm	0.9993 ppm	2.1910 ppm	0.0533 ppm	9.9581 ppm
Concentration per Run 2	0.0563 ppm	2.3819 ppm	0.1180 ppm	0.0000 ppm	2.2493 ppm	0.0540 ppm	9.9916 ppm
Concentration per Run 3	0.0571 ppm	2.3549 ppm	0.1192 ppm	1.0098 ppm	2.2207 ppm	0.0545 ppm	10.1455 ppm
Concentration RSD	0.8 %	1.7 %	1.3 %	0.7 %	1.3 %	1.1 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0514 ppm	0.5513 ppm	0.2182 ppm	0.2816 ppm	1.0873 ppm	11.3522 ppm	10.3874 ppm
Concentration per Run 1	0.0513 ppm	0.5487 ppm	0.2176 ppm	0.2796 ppm	1.0722 ppm	11.0925 ppm	10.3286 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	1.0861 ppm	11.6211 ppm	0.0000 ppm
Concentration per Run 3	0.0515 ppm	0.5539 ppm	0.2187 ppm	0.2837 ppm	1.1035 ppm	11.3430 ppm	10.4462 ppm
Concentration RSD	0.3 %	0.7 %	0.4 %	1.0 %	1.4 %	2.3 %	0.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5390 ppm	0.9727 ppm	10.9084 ppm	0.5101 ppm	0.5065 ppm	0.4723 ppm	0.1229 ppm
Concentration per Run 1	0.5329 ppm	0.9665 ppm	10.6477 ppm	0.5094 ppm	0.5068 ppm	0.4691 ppm	0.1209 ppm
Concentration per Run 2	0.5392 ppm	0.0000 ppm	11.1787 ppm	0.5124 ppm	0.5069 ppm	0.4746 ppm	0.1249 ppm
Concentration per Run 3	0.5448 ppm	0.9788 ppm	10.8986 ppm	0.5084 ppm	0.5059 ppm	0.4731 ppm	0.1230 ppm
Concentration RSD	1.1 %	0.9 %	2.4 %	0.4 %	0.1 %	0.6 %	1.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.1586 ppm	0.9044 ppm	1.0286 ppm	1.0147 ppm	0.1131 ppm	0.5339 ppm	0.5357 ppm
Concentration per Run 1	1.1587 ppm	0.9040 ppm	1.0100 ppm	1.0093 ppm	0.1130 ppm	0.5356 ppm	0.5356 ppm
Concentration per Run 2	1.1616 ppm	0.9064 ppm	1.0402 ppm	0.0000 ppm	0.1127 ppm	0.5274 ppm	0.5382 ppm
Concentration per Run 3	1.1555 ppm	0.9027 ppm	1.0357 ppm	1.0201 ppm	0.1137 ppm	0.5388 ppm	0.5334 ppm
Concentration RSD	0.3 %	0.2 %	1.6 %	0.8 %	0.4 %	1.1 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.6945 %	97.5828 %	96.2274 %	98.9370 %	90.8998 %	95.0850 %	0.0000 ppm
Concentration per Run 1	101.2543 %	97.2756 %	96.8494 %	100.2750 %	91.2084 %	95.6273 %	-0.0001 ppm
Concentration per Run 2	99.3613 %	98.9993 %	95.9243 %	98.5278 %	90.4547 %	0.0000 %	0.0002 ppm
Concentration per Run 3	98.4679 %	96.4734 %	95.9084 %	98.0082 %	91.0363 %	94.5427 %	0.0001 ppm
Concentration RSD	1.4 %	1.3 %	0.6 %	1.2 %	0.4 %	0.8 %	368.7 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2537655-01 WG2082423

Analysis started at: 6/26/2025 6:59:11 PM

Comments: <Comment>

Rack: 1

Vial: 57

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0105 ppm	-0.0012 ppm	0.0199 ppm	0.0398 ppm	0.0000 ppm	47.2701 ppm
Concentration per Run 1	-0.0002 ppm	0.0122 ppm	0.0003 ppm	0.0202 ppm	0.0393 ppm	0.0000 ppm	46.9157 ppm
Concentration per Run 2	-0.0002 ppm	0.0123 ppm	-0.0016 ppm	0.0198 ppm	0.0400 ppm	0.0000 ppm	47.5616 ppm
Concentration per Run 3	-0.0001 ppm	0.0069 ppm	-0.0021 ppm	0.0197 ppm	0.0401 ppm	0.0000 ppm	47.3332 ppm
Concentration RSD	53.2 %	29.5 %	108.1 %	1.5 %	1.0 %	71.2 %	0.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	-0.0002 ppm	0.0008 ppm	0.0034 ppm	0.0075 ppm	1.3867 ppm	10.5620 ppm
Concentration per Run 1	0.0001 ppm	0.0000 ppm	0.0006 ppm	0.0036 ppm	0.0077 ppm	1.3627 ppm	10.5768 ppm
Concentration per Run 2	0.0001 ppm	-0.0003 ppm	0.0010 ppm	0.0033 ppm	0.0075 ppm	1.3789 ppm	10.5350 ppm
Concentration per Run 3	0.0002 ppm	-0.0002 ppm	0.0010 ppm	0.0032 ppm	0.0073 ppm	1.4186 ppm	10.5743 ppm
Concentration RSD	12.7 %	82.2 %	24.5 %	5.1 %	2.8 %	2.1 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0013 ppm	0.0023 ppm	4.7926 ppm	0.0002 ppm	-0.0007 ppm	0.0019 ppm	0.0009 ppm
Concentration per Run 1	0.0013 ppm	0.0026 ppm	4.6952 ppm	0.0001 ppm	-0.0009 ppm	0.0021 ppm	-0.0001 ppm
Concentration per Run 2	0.0013 ppm	0.0023 ppm	4.7729 ppm	0.0000 ppm	-0.0006 ppm	0.0020 ppm	0.0039 ppm
Concentration per Run 3	0.0012 ppm	0.0021 ppm	4.9097 ppm	0.0005 ppm	-0.0006 ppm	0.0016 ppm	-0.0011 ppm
Concentration RSD	2.5 %	10.5 %	2.3 %	142.4 %	26.8 %	12.5 %	301.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.3257 ppm	0.0010 ppm	0.0961 ppm	0.0003 ppm	-0.0019 ppm	0.0000 ppm	0.0059 ppm
Concentration per Run 1	3.3302 ppm	0.0009 ppm	0.0950 ppm	0.0004 ppm	-0.0021 ppm	-0.0002 ppm	0.0058 ppm
Concentration per Run 2	3.3210 ppm	0.0012 ppm	0.0966 ppm	0.0002 ppm	-0.0022 ppm	0.0000 ppm	0.0059 ppm
Concentration per Run 3	3.3260 ppm	0.0009 ppm	0.0968 ppm	0.0004 ppm	-0.0014 ppm	0.0001 ppm	0.0059 ppm
Concentration RSD	0.1 %	20.5 %	1.0 %	39.5 %	24.3 %	801.3 %	1.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.5997 %	96.0737 %	93.9698 %	97.8716 %	89.3956 %	93.8944 %	0.0002 ppm
Concentration per Run 1	103.0552 %	95.6323 %	94.2215 %	99.0901 %	89.3175 %	93.3610 %	0.0003 ppm
Concentration per Run 2	99.5215 %	95.8217 %	93.7333 %	97.2859 %	89.2826 %	93.5983 %	0.0001 ppm
Concentration per Run 3	99.2224 %	96.7672 %	93.9547 %	97.2389 %	89.5869 %	94.7238 %	0.0002 ppm
Concentration RSD	2.1 %	0.6 %	0.3 %	1.1 %	0.2 %	0.8 %	53.8 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2537655-02 WG2082423

Analysis started at: 6/26/2025 7:05:47 PM

Comments: <Comment>

Rack: 1

Vial: 58

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	2.6432 ppm	0.0073 ppm	0.0108 ppm	0.0627 ppm	0.0002 ppm	17.4217 ppm
Concentration per Run 1	-0.0003 ppm	2.5968 ppm	0.0083 ppm	0.0106 ppm	0.0619 ppm	0.0002 ppm	17.3201 ppm
Concentration per Run 2	-0.0001 ppm	2.6935 ppm	0.0082 ppm	0.0109 ppm	0.0634 ppm	0.0002 ppm	17.3238 ppm
Concentration per Run 3	0.0000 ppm	2.6394 ppm	0.0054 ppm	0.0108 ppm	0.0628 ppm	0.0002 ppm	17.6212 ppm
Concentration RSD	125.6 %	1.8 %	21.9 %	1.1 %	1.2 %	11.2 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0004 ppm	0.0013 ppm	0.0104 ppm	0.0054 ppm	53.5860 ppm	1.4248 ppm	6.9546 ppm
Concentration per Run 1	0.0004 ppm	0.0013 ppm	0.0105 ppm	0.0051 ppm	53.1759 ppm	1.3748 ppm	6.9519 ppm
Concentration per Run 2	0.0004 ppm	0.0013 ppm	0.0103 ppm	0.0059 ppm	53.5040 ppm	1.5130 ppm	7.0150 ppm
Concentration per Run 3	0.0003 ppm	0.0013 ppm	0.0105 ppm	0.0051 ppm	54.0782 ppm	1.3866 ppm	6.8970 ppm
Concentration RSD	11.9 %	1.8 %	1.0 %	8.7 %	0.9 %	5.4 %	0.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0942 ppm	0.0006 ppm	8.3570 ppm	0.0007 ppm	-0.0020 ppm	-0.0004 ppm	0.0004 ppm
Concentration per Run 1	0.0934 ppm	0.0006 ppm	8.0978 ppm	0.0006 ppm	-0.0021 ppm	-0.0009 ppm	0.0014 ppm
Concentration per Run 2	0.0939 ppm	0.0005 ppm	8.8208 ppm	0.0005 ppm	-0.0015 ppm	-0.0005 ppm	-0.0010 ppm
Concentration per Run 3	0.0955 ppm	0.0008 ppm	8.1523 ppm	0.0008 ppm	-0.0025 ppm	0.0003 ppm	0.0008 ppm
Concentration RSD	1.2 %	18.8 %	4.8 %	24.7 %	24.7 %	159.6 %	288.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	17.2552 ppm	0.0011 ppm	0.0975 ppm	0.1007 ppm	-0.0010 ppm	0.0072 ppm	0.0126 ppm
Concentration per Run 1	17.3031 ppm	0.0009 ppm	0.0961 ppm	0.1013 ppm	-0.0016 ppm	0.0073 ppm	0.0126 ppm
Concentration per Run 2	17.3510 ppm	0.0009 ppm	0.0983 ppm	0.1004 ppm	-0.0008 ppm	0.0072 ppm	0.0126 ppm
Concentration per Run 3	17.1114 ppm	0.0014 ppm	0.0979 ppm	0.1003 ppm	-0.0007 ppm	0.0072 ppm	0.0126 ppm
Concentration RSD	0.7 %	24.2 %	1.2 %	0.5 %	47.4 %	0.8 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.5566 %	97.5838 %	95.7839 %	100.0685 %	89.8397 %	96.3876 %	0.0055 ppm
Concentration per Run 1	102.2702 %	97.8154 %	95.8978 %	101.1633 %	89.8598 %	96.7000 %	0.0053 ppm
Concentration per Run 2	100.0969 %	97.0241 %	95.9870 %	99.9239 %	89.2851 %	95.6931 %	0.0059 ppm
Concentration per Run 3	99.3028 %	97.9118 %	95.4669 %	99.1183 %	90.3743 %	96.7696 %	0.0054 ppm
Concentration RSD	1.5 %	0.5 %	0.3 %	1.0 %	0.6 %	0.6 %	6.2 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2537655-03 WG2082423

Analysis started at: 6/26/2025 7:12:20 PM

Comments: <Comment>

Rack: 1

Vial: 59

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0049 ppm	-0.0012 ppm	0.0014 ppm	0.0001 ppm	0.0000 ppm	0.0105 ppm
Concentration per Run 1	-0.0002 ppm	0.0056 ppm	-0.0028 ppm	0.0015 ppm	0.0001 ppm	0.0000 ppm	0.0065 ppm
Concentration per Run 2	0.0000 ppm	0.0038 ppm	-0.0008 ppm	0.0012 ppm	0.0001 ppm	0.0000 ppm	0.0121 ppm
Concentration per Run 3	0.0001 ppm	0.0054 ppm	0.0000 ppm	0.0014 ppm	0.0000 ppm	0.0000 ppm	0.0127 ppm
Concentration RSD	985.8 %	20.2 %	120.8 %	12.0 %	70.3 %	174.2 %	32.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0012 ppm	0.0066 ppm	0.0052 ppm	0.0046 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0013 ppm	0.0068 ppm	0.0010 ppm	0.0044 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0010 ppm	0.0063 ppm	0.0011 ppm	0.0056 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0013 ppm	0.0066 ppm	0.0135 ppm	0.0037 ppm
Concentration RSD	526.8 %	49.9 %	143.8 %	11.5 %	4.1 %	138.3 %	20.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	0.0004 ppm	0.0138 ppm	0.0000 ppm	-0.0001 ppm	0.0009 ppm	0.0011 ppm
Concentration per Run 1	0.0001 ppm	0.0003 ppm	0.0151 ppm	0.0001 ppm	0.0001 ppm	0.0005 ppm	0.0015 ppm
Concentration per Run 2	0.0000 ppm	0.0005 ppm	0.0137 ppm	-0.0001 ppm	-0.0002 ppm	0.0009 ppm	0.0011 ppm
Concentration per Run 3	0.0001 ppm	0.0005 ppm	0.0126 ppm	0.0000 ppm	-0.0003 ppm	0.0013 ppm	0.0006 ppm
Concentration RSD	154.6 %	23.8 %	8.8 %	958.2 %	149.4 %	48.3 %	44.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0156 ppm	-0.0002 ppm	0.0001 ppm	0.0000 ppm	-0.0009 ppm	-0.0001 ppm	0.0025 ppm
Concentration per Run 1	0.0158 ppm	0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0005 ppm	-0.0001 ppm	0.0025 ppm
Concentration per Run 2	0.0153 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm	-0.0018 ppm	-0.0001 ppm	0.0025 ppm
Concentration per Run 3	0.0159 ppm	-0.0006 ppm	0.0001 ppm	-0.0001 ppm	-0.0015 ppm	-0.0001 ppm	0.0025 ppm
Concentration RSD	2.1 %	197.3 %	16.6 %	473.3 %	134.2 %	3.3 %	1.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.6617 %	101.5538 %	98.3840 %	99.2006 %	102.4680 %	99.1689 %	0.0001 ppm
Concentration per Run 1	103.4873 %	101.4254 %	98.2072 %	100.2539 %	102.6157 %	98.8540 %	-0.0001 ppm
Concentration per Run 2	100.6319 %	101.8260 %	98.6022 %	98.5710 %	102.4415 %	99.4432 %	0.0001 ppm
Concentration per Run 3	100.8659 %	101.4100 %	98.3426 %	98.7769 %	102.3468 %	99.2094 %	0.0002 ppm
Concentration RSD	1.6 %	0.2 %	0.2 %	0.9 %	0.1 %	0.3 %	158.3 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2537655-04 WG2082423

Analysis started at: 6/26/2025 7:19:14 PM

Comments: <Comment>

Rack: 1

Vial: 60

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0074 ppm	0.0008 ppm	0.0348 ppm	0.0268 ppm	0.0000 ppm	11.7272 ppm
Concentration per Run 1	0.0000 ppm	0.0060 ppm	0.0017 ppm	0.0349 ppm	0.0266 ppm	0.0000 ppm	11.5253 ppm
Concentration per Run 2	-0.0002 ppm	0.0096 ppm	0.0016 ppm	0.0350 ppm	0.0269 ppm	0.0000 ppm	11.8309 ppm
Concentration per Run 3	0.0001 ppm	0.0066 ppm	-0.0010 ppm	0.0344 ppm	0.0269 ppm	0.0000 ppm	11.8254 ppm
Concentration RSD	446.6 %	26.0 %	201.2 %	0.9 %	0.6 %	632.9 %	1.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0002 ppm	0.0026 ppm	0.0004 ppm	0.0017 ppm	2.7655 ppm	1.1778 ppm	5.3514 ppm
Concentration per Run 1	0.0002 ppm	0.0026 ppm	0.0003 ppm	0.0017 ppm	2.7170 ppm	1.2111 ppm	5.3632 ppm
Concentration per Run 2	0.0002 ppm	0.0026 ppm	0.0006 ppm	0.0017 ppm	2.7918 ppm	1.1699 ppm	5.3503 ppm
Concentration per Run 3	0.0002 ppm	0.0025 ppm	0.0004 ppm	0.0016 ppm	2.7876 ppm	1.1524 ppm	5.3406 ppm
Concentration RSD	14.1 %	1.2 %	38.3 %	3.2 %	1.5 %	2.6 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0445 ppm	0.0003 ppm	9.8737 ppm	0.0010 ppm	-0.0018 ppm	0.0007 ppm	0.0016 ppm
Concentration per Run 1	0.0437 ppm	0.0004 ppm	10.0592 ppm	0.0009 ppm	-0.0016 ppm	0.0007 ppm	0.0032 ppm
Concentration per Run 2	0.0450 ppm	0.0002 ppm	9.8388 ppm	0.0011 ppm	-0.0021 ppm	0.0003 ppm	0.0000 ppm
Concentration per Run 3	0.0447 ppm	0.0004 ppm	9.7230 ppm	0.0009 ppm	-0.0016 ppm	0.0010 ppm	0.0017 ppm
Concentration RSD	1.5 %	23.8 %	1.7 %	10.1 %	18.9 %	48.2 %	96.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	8.0198 ppm	0.0002 ppm	0.0476 ppm	0.0000 ppm	-0.0010 ppm	-0.0002 ppm	0.0071 ppm
Concentration per Run 1	8.0406 ppm	0.0003 ppm	0.0470 ppm	0.0000 ppm	-0.0004 ppm	-0.0003 ppm	0.0072 ppm
Concentration per Run 2	7.9972 ppm	0.0003 ppm	0.0481 ppm	0.0000 ppm	-0.0014 ppm	-0.0002 ppm	0.0069 ppm
Concentration per Run 3	8.0217 ppm	0.0000 ppm	0.0477 ppm	0.0001 ppm	-0.0013 ppm	0.0000 ppm	0.0072 ppm
Concentration RSD	0.3 %	80.6 %	1.1 %	237.5 %	54.1 %	69.7 %	2.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.2702 %	97.7513 %	95.6325 %	98.6895 %	93.9362 %	96.5550 %	0.0013 ppm
Concentration per Run 1	102.3117 %	97.6868 %	96.0644 %	99.8263 %	93.6164 %	96.4236 %	0.0012 ppm
Concentration per Run 2	99.5977 %	97.8736 %	95.6231 %	98.3386 %	94.1691 %	96.5985 %	0.0015 ppm
Concentration per Run 3	98.9010 %	97.6935 %	95.2100 %	97.9036 %	94.0232 %	96.6428 %	0.0013 ppm
Concentration RSD	1.8 %	0.1 %	0.4 %	1.0 %	0.3 %	0.1 %	12.6 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2537655-05 WG2082423

Analysis started at: 6/26/2025 7:25:52 PM

Comments: <Comment>

Rack: 2

Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	0.0060 ppm	-0.0006 ppm	0.0155 ppm	0.0210 ppm	0.0000 ppm	18.5860 ppm
Concentration per Run 1	-0.0004 ppm	0.0057 ppm	-0.0002 ppm	0.0157 ppm	0.0207 ppm	0.0000 ppm	18.4215 ppm
Concentration per Run 2	-0.0002 ppm	0.0075 ppm	-0.0011 ppm	0.0152 ppm	0.0210 ppm	0.0000 ppm	18.8617 ppm
Concentration per Run 3	-0.0002 ppm	0.0048 ppm	-0.0004 ppm	0.0156 ppm	0.0211 ppm	0.0000 ppm	18.4749 ppm
Concentration RSD	49.8 %	23.2 %	84.0 %	1.8 %	1.0 %	1,137.2 %	1.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	-0.0003 ppm	0.0007 ppm	0.0015 ppm	0.0084 ppm	2.0805 ppm	4.9246 ppm
Concentration per Run 1	0.0001 ppm	-0.0003 ppm	0.0008 ppm	0.0016 ppm	0.0094 ppm	2.0460 ppm	4.9116 ppm
Concentration per Run 2	0.0001 ppm	-0.0003 ppm	0.0006 ppm	0.0015 ppm	0.0078 ppm	2.0428 ppm	4.9332 ppm
Concentration per Run 3	0.0001 ppm	-0.0002 ppm	0.0008 ppm	0.0014 ppm	0.0081 ppm	2.1526 ppm	4.9290 ppm
Concentration RSD	14.1 %	21.3 %	12.7 %	4.9 %	9.9 %	3.0 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	0.0008 ppm	5.6451 ppm	-0.0001 ppm	-0.0007 ppm	0.0006 ppm	0.0014 ppm
Concentration per Run 1	0.0001 ppm	0.0009 ppm	5.5451 ppm	-0.0001 ppm	-0.0006 ppm	0.0008 ppm	0.0021 ppm
Concentration per Run 2	0.0002 ppm	0.0009 ppm	5.5460 ppm	0.0000 ppm	-0.0008 ppm	0.0005 ppm	0.0018 ppm
Concentration per Run 3	0.0002 ppm	0.0007 ppm	5.8443 ppm	-0.0002 ppm	-0.0008 ppm	0.0006 ppm	0.0004 ppm
Concentration RSD	43.7 %	14.5 %	3.1 %	118.6 %	12.4 %	26.0 %	61.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.4235 ppm	0.0000 ppm	0.0590 ppm	0.0000 ppm	-0.0014 ppm	0.0001 ppm	0.0007 ppm
Concentration per Run 1	3.4134 ppm	0.0000 ppm	0.0584 ppm	0.0000 ppm	-0.0011 ppm	0.0001 ppm	0.0007 ppm
Concentration per Run 2	3.4340 ppm	0.0004 ppm	0.0590 ppm	0.0000 ppm	-0.0024 ppm	0.0000 ppm	0.0006 ppm
Concentration per Run 3	3.4232 ppm	-0.0003 ppm	0.0597 ppm	0.0001 ppm	-0.0009 ppm	0.0000 ppm	0.0007 ppm
Concentration RSD	0.3 %	767.2 %	1.1 %	205.7 %	57.8 %	81.8 %	7.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.6575 %	97.7915 %	95.6387 %	98.4179 %	93.8820 %	96.1845 %	0.0000 ppm
Concentration per Run 1	102.9143 %	97.4167 %	95.8274 %	99.6281 %	94.2114 %	95.6197 %	0.0003 ppm
Concentration per Run 2	99.4854 %	98.1049 %	95.6843 %	97.7360 %	93.7207 %	96.5867 %	-0.0002 ppm
Concentration per Run 3	99.5728 %	97.8528 %	95.4044 %	97.8896 %	93.7140 %	96.3471 %	0.0000 ppm
Concentration RSD	1.9 %	0.4 %	0.2 %	1.1 %	0.3 %	0.5 %	536.2 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2537735-01 WG2082423

Analysis started at: 6/26/2025 7:32:26 PM

Comments: <Comment>

Rack: 2

Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.1172 ppm	-0.0009 ppm	0.1207 ppm	0.0053 ppm	0.0000 ppm	7.4751 ppm
Concentration per Run 1	0.0000 ppm	0.1164 ppm	-0.0005 ppm	0.1201 ppm	0.0052 ppm	0.0000 ppm	7.3738 ppm
Concentration per Run 2	-0.0001 ppm	0.1188 ppm	-0.0013 ppm	0.1206 ppm	0.0054 ppm	0.0000 ppm	7.4874 ppm
Concentration per Run 3	0.0002 ppm	0.1165 ppm	-0.0008 ppm	0.1214 ppm	0.0053 ppm	0.0000 ppm	7.5639 ppm
Concentration RSD	598.8 %	1.2 %	45.9 %	0.6 %	1.8 %	64.1 %	1.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0003 ppm	0.0003 ppm	0.0010 ppm	0.0136 ppm	1.0223 ppm	3.8000 ppm	1.2278 ppm
Concentration per Run 1	0.0002 ppm	0.0003 ppm	0.0011 ppm	0.0134 ppm	1.0065 ppm	3.7804 ppm	1.2264 ppm
Concentration per Run 2	0.0002 ppm	0.0002 ppm	0.0011 ppm	0.0137 ppm	1.0277 ppm	3.8540 ppm	1.2243 ppm
Concentration per Run 3	0.0003 ppm	0.0005 ppm	0.0009 ppm	0.0139 ppm	1.0327 ppm	3.7657 ppm	1.2327 ppm
Concentration RSD	9.0 %	42.8 %	11.5 %	1.6 %	1.4 %	1.2 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0713 ppm	0.0020 ppm	16.6049 ppm	0.0030 ppm	0.0023 ppm	0.0002 ppm	0.0011 ppm
Concentration per Run 1	0.0705 ppm	0.0021 ppm	16.4496 ppm	0.0030 ppm	0.0029 ppm	0.0005 ppm	0.0004 ppm
Concentration per Run 2	0.0714 ppm	0.0020 ppm	16.8464 ppm	0.0031 ppm	0.0022 ppm	-0.0002 ppm	0.0009 ppm
Concentration per Run 3	0.0720 ppm	0.0020 ppm	16.5188 ppm	0.0029 ppm	0.0019 ppm	0.0005 ppm	0.0019 ppm
Concentration RSD	1.1 %	0.7 %	1.3 %	3.3 %	22.0 %	172.4 %	72.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.8816 ppm	0.0002 ppm	0.0560 ppm	0.0024 ppm	-0.0021 ppm	0.0008 ppm	0.0246 ppm
Concentration per Run 1	1.8888 ppm	0.0003 ppm	0.0551 ppm	0.0025 ppm	-0.0017 ppm	0.0009 ppm	0.0246 ppm
Concentration per Run 2	1.8778 ppm	0.0001 ppm	0.0565 ppm	0.0024 ppm	-0.0027 ppm	0.0008 ppm	0.0246 ppm
Concentration per Run 3	1.8782 ppm	0.0001 ppm	0.0564 ppm	0.0025 ppm	-0.0020 ppm	0.0007 ppm	0.0246 ppm
Concentration RSD	0.3 %	69.9 %	1.4 %	3.1 %	25.1 %	11.4 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.7184 %	95.1649 %	88.8337 %	100.0258 %	93.3040 %	93.8818 %	0.0073 ppm
Concentration per Run 1	103.8502 %	95.3292 %	88.7679 %	101.4016 %	92.8507 %	93.9722 %	0.0076 ppm
Concentration per Run 2	101.1059 %	95.2388 %	88.7711 %	99.7077 %	93.5137 %	93.9958 %	0.0073 ppm
Concentration per Run 3	100.1992 %	94.9265 %	88.9620 %	98.9682 %	93.5477 %	93.6774 %	0.0070 ppm
Concentration RSD	1.9 %	0.2 %	0.1 %	1.2 %	0.4 %	0.2 %	4.2 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2537655-04 WG2081457

Analysis started at: 6/26/2025 7:38:59 PM

Comments: <Comment>

Rack: 1

Vial: 53

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0114 ppm	0.0003 ppm	0.0322 ppm	0.0250 ppm	0.0000 ppm	10.8163 ppm
Concentration per Run 1	-0.0002 ppm	0.0099 ppm	0.0020 ppm	0.0322 ppm	0.0250 ppm	0.0000 ppm	10.6716 ppm
Concentration per Run 2	-0.0002 ppm	0.0128 ppm	0.0008 ppm	0.0323 ppm	0.0251 ppm	0.0000 ppm	10.9050 ppm
Concentration per Run 3	0.0001 ppm	0.0114 ppm	-0.0019 ppm	0.0323 ppm	0.0250 ppm	0.0000 ppm	10.8721 ppm
Concentration RSD	137.4 %	12.6 %	610.0 %	0.2 %	0.1 %	128.7 %	1.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0002 ppm	0.0024 ppm	0.0005 ppm	0.0015 ppm	2.4887 ppm	1.1463 ppm	5.0227 ppm
Concentration per Run 1	0.0002 ppm	0.0024 ppm	0.0005 ppm	0.0015 ppm	2.4631 ppm	1.1710 ppm	5.0500 ppm
Concentration per Run 2	0.0002 ppm	0.0024 ppm	0.0004 ppm	0.0015 ppm	2.5065 ppm	1.1211 ppm	5.0231 ppm
Concentration per Run 3	0.0001 ppm	0.0024 ppm	0.0007 ppm	0.0014 ppm	2.4965 ppm	1.1468 ppm	4.9951 ppm
Concentration RSD	24.0 %	2.0 %	27.0 %	2.6 %	0.9 %	2.2 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0425 ppm	0.0002 ppm	9.5284 ppm	0.0012 ppm	-0.0015 ppm	0.0005 ppm	0.0012 ppm
Concentration per Run 1	0.0422 ppm	0.0002 ppm	9.6467 ppm	0.0014 ppm	-0.0013 ppm	-0.0001 ppm	0.0012 ppm
Concentration per Run 2	0.0425 ppm	0.0002 ppm	9.3878 ppm	0.0010 ppm	-0.0017 ppm	0.0008 ppm	0.0012 ppm
Concentration per Run 3	0.0426 ppm	0.0003 ppm	9.5506 ppm	0.0013 ppm	-0.0014 ppm	0.0007 ppm	0.0012 ppm
Concentration RSD	0.5 %	14.3 %	1.4 %	15.8 %	16.3 %	96.8 %	3.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	7.5010 ppm	0.0000 ppm	0.0448 ppm	-0.0001 ppm	-0.0012 ppm	-0.0001 ppm	0.0059 ppm
Concentration per Run 1	7.4933 ppm	0.0005 ppm	0.0447 ppm	-0.0002 ppm	-0.0011 ppm	0.0000 ppm	0.0058 ppm
Concentration per Run 2	7.5291 ppm	-0.0004 ppm	0.0447 ppm	0.0000 ppm	-0.0011 ppm	-0.0001 ppm	0.0058 ppm
Concentration per Run 3	7.4807 ppm	-0.0001 ppm	0.0449 ppm	-0.0001 ppm	-0.0015 ppm	-0.0002 ppm	0.0061 ppm
Concentration RSD	0.3 %	11,903.6 %	0.2 %	107.2 %	15.5 %	163.2 %	2.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.3295 %	98.0182 %	94.9126 %	98.4319 %	93.7086 %	96.4421 %	0.0008 ppm
Concentration per Run 1	102.3082 %	98.1255 %	94.9370 %	99.3388 %	93.6589 %	96.4518 %	0.0012 ppm
Concentration per Run 2	99.5105 %	97.8965 %	94.5475 %	98.1013 %	93.2880 %	96.3445 %	0.0006 ppm
Concentration per Run 3	99.1697 %	98.0325 %	95.2534 %	97.8555 %	94.1788 %	96.5299 %	0.0007 ppm
Concentration RSD	1.7 %	0.1 %	0.4 %	0.8 %	0.5 %	0.1 %	34.2 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: L2537655-05 WG2081457

Analysis started at: 6/26/2025 7:46:23 PM

Comments: <Comment>

Rack: 1

Vial: 54

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0061 ppm	-0.0015 ppm	0.0131 ppm	0.0212 ppm	0.0000 ppm	16.5413 ppm
Concentration per Run 1	-0.0002 ppm	0.0058 ppm	-0.0008 ppm	0.0131 ppm	0.0209 ppm	0.0000 ppm	16.3096 ppm
Concentration per Run 2	-0.0002 ppm	0.0063 ppm	-0.0012 ppm	0.0131 ppm	0.0213 ppm	0.0000 ppm	16.6953 ppm
Concentration per Run 3	-0.0001 ppm	0.0060 ppm	-0.0024 ppm	0.0131 ppm	0.0214 ppm	0.0000 ppm	16.6190 ppm
Concentration RSD	12.4 %	4.2 %	56.6 %	0.2 %	1.1 %	45.0 %	1.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	-0.0004 ppm	0.0004 ppm	0.0016 ppm	0.0042 ppm	1.8689 ppm	4.4267 ppm
Concentration per Run 1	0.0001 ppm	-0.0002 ppm	0.0004 ppm	0.0015 ppm	0.0037 ppm	1.8702 ppm	4.4150 ppm
Concentration per Run 2	0.0001 ppm	-0.0004 ppm	0.0004 ppm	0.0016 ppm	0.0041 ppm	1.8474 ppm	4.4286 ppm
Concentration per Run 3	0.0000 ppm	-0.0005 ppm	0.0005 ppm	0.0016 ppm	0.0048 ppm	1.8890 ppm	4.4365 ppm
Concentration RSD	52.6 %	32.4 %	10.1 %	5.6 %	13.5 %	1.1 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	0.0008 ppm	5.0228 ppm	-0.0001 ppm	-0.0006 ppm	0.0004 ppm	0.0006 ppm
Concentration per Run 1	0.0002 ppm	0.0006 ppm	4.9957 ppm	-0.0002 ppm	-0.0007 ppm	0.0005 ppm	0.0009 ppm
Concentration per Run 2	0.0003 ppm	0.0009 ppm	4.9838 ppm	0.0000 ppm	-0.0004 ppm	0.0001 ppm	-0.0005 ppm
Concentration per Run 3	0.0000 ppm	0.0009 ppm	5.0889 ppm	-0.0002 ppm	-0.0008 ppm	0.0006 ppm	0.0015 ppm
Concentration RSD	73.1 %	23.1 %	1.1 %	103.4 %	34.2 %	58.9 %	155.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	3.0671 ppm	-0.0002 ppm	0.0530 ppm	-0.0001 ppm	-0.0008 ppm	0.0001 ppm	0.0007 ppm
Concentration per Run 1	3.0772 ppm	-0.0004 ppm	0.0522 ppm	0.0001 ppm	-0.0006 ppm	0.0001 ppm	0.0006 ppm
Concentration per Run 2	3.0643 ppm	0.0001 ppm	0.0532 ppm	-0.0002 ppm	-0.0007 ppm	0.0001 ppm	0.0007 ppm
Concentration per Run 3	3.0598 ppm	-0.0002 ppm	0.0535 ppm	-0.0001 ppm	-0.0011 ppm	0.0000 ppm	0.0007 ppm
Concentration RSD	0.3 %	175.9 %	1.3 %	144.5 %	34.8 %	66.3 %	6.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.8325 %	98.2620 %	95.5395 %	98.8989 %	94.4359 %	96.1792 %	0.0000 ppm
Concentration per Run 1	103.2795 %	98.4682 %	95.3160 %	100.4546 %	94.0875 %	96.4321 %	0.0000 ppm
Concentration per Run 2	99.6280 %	98.1292 %	95.8910 %	98.0882 %	94.9176 %	96.1579 %	-0.0001 ppm
Concentration per Run 3	99.5901 %	98.1885 %	95.4116 %	98.1539 %	94.3026 %	95.9478 %	0.0001 ppm
Concentration RSD	2.1 %	0.2 %	0.3 %	1.4 %	0.5 %	0.3 %	543.7 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: CCV
Analysis started at: 6/26/2025 7:57:33 PM
Comments: <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5074 ppm	0.4873 ppm	0.4673 ppm	0.5031 ppm	0.4787 ppm	0.4825 ppm	0.4822 ppm
Concentration per Run 1	0.5089 ppm	0.4709 ppm	0.4658 ppm	0.5045 ppm	0.4630 ppm	0.4681 ppm	0.4719 ppm
Concentration per Run 2	0.5057 ppm	0.4921 ppm	0.4695 ppm	0.5020 ppm	0.4851 ppm	0.4887 ppm	0.4865 ppm
Concentration per Run 3	0.5075 ppm	0.4988 ppm	0.4667 ppm	0.5029 ppm	0.4881 ppm	0.4906 ppm	0.4880 ppm
Recovery Percentage 1	101.471 %	97.453 %	93.468 %	100.622 %	95.744 %	96.494 %	96.431 %
Concentration RSD	0.3 %	3.0 %	0.4 %	0.2 %	2.9 %	2.6 %	1.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4765 ppm	0.5045 ppm	0.5002 ppm	0.4986 ppm	0.4769 ppm	5.1451 ppm	0.5143 ppm
Concentration per Run 1	0.4758 ppm	0.5043 ppm	0.5002 ppm	0.5010 ppm	0.4628 ppm	4.9251 ppm	0.5154 ppm
Concentration per Run 2	0.4744 ppm	0.5034 ppm	0.5010 ppm	0.4960 ppm	0.4807 ppm	5.2051 ppm	0.5105 ppm
Concentration per Run 3	0.4792 ppm	0.5058 ppm	0.4993 ppm	0.4988 ppm	0.4871 ppm	5.3051 ppm	0.5171 ppm
Recovery Percentage 1	95.297 %	100.901 %	100.037 %	99.719 %	95.375 %	102.902 %	102.861 %
Concentration RSD	0.5 %	0.2 %	0.2 %	0.5 %	2.6 %	3.8 %	0.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4807 ppm	0.4823 ppm	9.7770 ppm	0.4605 ppm	0.4723 ppm	0.4707 ppm	0.5031 ppm
Concentration per Run 1	0.4661 ppm	0.4815 ppm	9.3579 ppm	0.4576 ppm	0.4722 ppm	0.4710 ppm	0.5026 ppm
Concentration per Run 2	0.4884 ppm	0.4812 ppm	9.9003 ppm	0.4592 ppm	0.4697 ppm	0.4695 ppm	0.5041 ppm
Concentration per Run 3	0.4875 ppm	0.4842 ppm	10.0728 ppm	0.4647 ppm	0.4749 ppm	0.4716 ppm	0.5026 ppm
Recovery Percentage 1	96.134 %	96.461 %	97.770 %	92.097 %	94.455 %	94.143 %	100.614 %
Concentration RSD	2.6 %	0.3 %	3.8 %	0.8 %	0.6 %	0.2 %	0.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.1857 ppm	0.4428 ppm	0.4961 ppm	0.4948 ppm	0.4757 ppm	0.4938 ppm	0.4945 ppm
Concentration per Run 1	5.1673 ppm	0.4408 ppm	0.4798 ppm	0.4952 ppm	0.4763 ppm	0.4925 ppm	0.4942 ppm
Concentration per Run 2	5.1851 ppm	0.4415 ppm	0.5023 ppm	0.4942 ppm	0.4735 ppm	0.4953 ppm	0.4923 ppm
Concentration per Run 3	5.2046 ppm	0.4461 ppm	0.5062 ppm	0.4950 ppm	0.4775 ppm	0.4936 ppm	0.4969 ppm
Recovery Percentage 1	98.774 %	88.562 %	99.220 %	98.961 %	95.145 %	98.753 %	98.898 %
Concentration RSD	0.4 %	0.7 %	2.9 %	0.1 %	0.4 %	0.3 %	0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.2635 %	98.0958 %	97.2819 %	101.3752 %	93.7024 %	97.8957 %	0.5143 ppm
Concentration per Run 1	102.8266 %	98.1854 %	97.5217 %	104.2113 %	94.2491 %	98.0068 %	0.4922 ppm
Concentration per Run 2	99.1671 %	97.9097 %	96.8765 %	100.3373 %	93.7526 %	97.8142 %	0.5201 ppm
Concentration per Run 3	98.7966 %	98.1923 %	97.4474 %	99.5770 %	93.1057 %	97.8662 %	0.5307 ppm
Recovery Percentage 1							102.866 %
Concentration RSD	2.2 %	0.2 %	0.4 %	2.5 %	0.6 %	0.1 %	3.9 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: CCB
Analysis started at: 6/26/2025 8:03:53 PM
Comments: <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0489 ppm	-0.0018 ppm	0.0011 ppm	0.0001 ppm	0.0000 ppm	0.0059 ppm
Concentration per Run 1	-0.0003 ppm	0.0516 ppm	-0.0016 ppm	0.0012 ppm	0.0001 ppm	0.0000 ppm	0.0029 ppm
Concentration per Run 2	-0.0001 ppm	0.0506 ppm	-0.0019 ppm	0.0011 ppm	0.0000 ppm	0.0000 ppm	0.0042 ppm
Concentration per Run 3	0.0001 ppm	0.0443 ppm	-0.0018 ppm	0.0009 ppm	0.0000 ppm	0.0000 ppm	0.0105 ppm
Recovery Percentage 1	-1.464 %	48.867 %	-35.605 %	3.518 %	0.537 %	0.307 %	5.883 %
Concentration RSD	175.3 %	8.1 %	6.6 %	10.2 %	52.4 %	193.3 %	68.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0007 ppm	0.0012 ppm	0.0041 ppm	0.0002 ppm
Concentration per Run 1	0.0001 ppm	-0.0003 ppm	-0.0002 ppm	0.0006 ppm	0.0015 ppm	0.0008 ppm	-0.0003 ppm
Concentration per Run 2	0.0001 ppm	-0.0002 ppm	0.0002 ppm	0.0007 ppm	0.0008 ppm	0.0058 ppm	0.0006 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	0.0007 ppm	0.0014 ppm	0.0055 ppm	0.0004 ppm
Recovery Percentage 1	1.104 %	-1.137 %	-0.377 %	6.812 %	2.438 %	0.162 %	0.211 %
Concentration RSD	98.6 %	24.3 %	495.6 %	12.3 %	32.1 %	69.5 %	222.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	0.0008 ppm	0.0010 ppm	0.0000 ppm	-0.0005 ppm	0.0006 ppm	0.0017 ppm
Concentration per Run 1	0.0003 ppm	0.0008 ppm	0.0007 ppm	0.0000 ppm	-0.0005 ppm	0.0003 ppm	0.0032 ppm
Concentration per Run 2	0.0001 ppm	0.0007 ppm	0.0011 ppm	0.0001 ppm	-0.0006 ppm	0.0008 ppm	0.0015 ppm
Concentration per Run 3	0.0001 ppm	0.0008 ppm	0.0011 ppm	-0.0001 ppm	-0.0004 ppm	0.0006 ppm	0.0005 ppm
Recovery Percentage 1	1.713 %	1.567 %	0.049 %	0.144 %	-5.120 %	1.107 %	17.163 %
Concentration RSD	58.0 %	4.9 %	23.6 %	240.1 %	17.0 %	40.6 %	80.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0019 ppm	-0.0001 ppm	0.0000 ppm	-0.0001 ppm	-0.0017 ppm	0.0000 ppm	-0.0002 ppm
Concentration per Run 1	0.0017 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	-0.0018 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 2	0.0019 ppm	-0.0003 ppm	0.0000 ppm	-0.0002 ppm	-0.0016 ppm	-0.0001 ppm	-0.0002 ppm
Concentration per Run 3	0.0021 ppm	0.0002 ppm	0.0001 ppm	-0.0001 ppm	-0.0017 ppm	-0.0001 ppm	-0.0001 ppm
Recovery Percentage 1	0.374 %	-0.231 %	0.398 %	-0.764 %	-8.582 %	-0.355 %	-3.133 %
Concentration RSD	10.1 %	200.4 %	38.7 %	122.1 %	5.7 %	170.8 %	45.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.7998 %	101.0669 %	99.4882 %	99.7782 %	100.5469 %	100.2037 %	0.0000 ppm
Concentration per Run 1	102.6514 %	101.0113 %	100.1195 %	101.2471 %	101.0120 %	100.0408 %	-0.0003 ppm
Concentration per Run 2	100.5154 %	100.8829 %	99.1585 %	99.6650 %	100.5642 %	100.0206 %	0.0003 ppm
Concentration per Run 3	99.2325 %	101.3067 %	99.1866 %	98.4224 %	100.0645 %	100.5498 %	0.0001 ppm
Recovery Percentage 1							0.270 %
Concentration RSD	1.7 %	0.2 %	0.5 %	1.4 %	0.5 %	0.3 %	1,098.2 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: xWG2079820-1 WG2079820
 Analysis started at: 6/26/2025 8:34:51 PM
 Comments: <Comment>
 Rack: 2
 Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0060 ppm	-0.0005 ppm	0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0024 ppm
Concentration per Run 1	0.0000 ppm	0.0062 ppm	-0.0016 ppm	0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0021 ppm
Concentration per Run 2	0.0001 ppm	0.0071 ppm	0.0014 ppm	0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0038 ppm
Concentration per Run 3	-0.0001 ppm	0.0046 ppm	-0.0013 ppm	0.0008 ppm	0.0001 ppm	0.0000 ppm	0.0013 ppm
Recovery Percentage 1	-0.275 %	5.967 %	-10.654 %	2.435 %	0.336 %	0.050 %	2.410 %
Concentration RSD	456.0 %	21.8 %	308.3 %	3.3 %	115.8 %	178.1 %	51.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0013 ppm	0.0009 ppm	0.0042 ppm	0.0043 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0005 ppm	0.0013 ppm	0.0010 ppm	0.0032 ppm	0.0046 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0013 ppm	0.0005 ppm	0.0024 ppm	0.0039 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0012 ppm	0.0011 ppm	0.0070 ppm	0.0044 ppm
Recovery Percentage 1	-0.290 %	-0.746 %	1.492 %	12.729 %	1.771 %	0.168 %	4.305 %
Concentration RSD	283.4 %	16.3 %	196.4 %	2.8 %	35.9 %	59.1 %	9.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0004 ppm	0.0002 ppm	0.0028 ppm	0.0003 ppm	-0.0001 ppm	-0.0004 ppm	-0.0003 ppm
Concentration per Run 1	0.0004 ppm	0.0002 ppm	0.0041 ppm	0.0002 ppm	-0.0003 ppm	-0.0006 ppm	0.0002 ppm
Concentration per Run 2	0.0003 ppm	0.0003 ppm	0.0016 ppm	0.0003 ppm	0.0001 ppm	-0.0002 ppm	-0.0008 ppm
Concentration per Run 3	0.0003 ppm	0.0002 ppm	0.0027 ppm	0.0003 ppm	-0.0001 ppm	-0.0002 ppm	-0.0002 ppm
Recovery Percentage 1	3.569 %	0.440 %	0.139 %	1.031 %	-1.097 %	-0.714 %	-2.757 %
Concentration RSD	22.7 %	19.4 %	44.9 %	17.2 %	156.2 %	70.0 %	186.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0051 ppm	-0.0003 ppm	0.0000 ppm	0.0000 ppm	-0.0006 ppm	-0.0001 ppm	0.0002 ppm
Concentration per Run 1	0.0055 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	-0.0010 ppm	-0.0002 ppm	0.0002 ppm
Concentration per Run 2	0.0050 ppm	-0.0006 ppm	0.0000 ppm	-0.0002 ppm	-0.0003 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 3	0.0048 ppm	-0.0001 ppm	0.0000 ppm	0.0001 ppm	-0.0004 ppm	0.0000 ppm	0.0002 ppm
Recovery Percentage 1	1.026 %	-0.547 %	0.326 %	-0.343 %	-2.840 %	-0.666 %	3.887 %
Concentration RSD	6.4 %	113.2 %	33.6 %	522.8 %	68.9 %	126.8 %	17.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.8731 %	98.9581 %	97.6109 %	103.1645 %	105.3320 %	99.3034 %	0.0000 ppm
Concentration per Run 1	103.4971 %	97.5326 %	96.2553 %	105.8513 %	104.7212 %	98.1207 %	0.0000 ppm
Concentration per Run 2	100.0075 %	99.7635 %	97.5150 %	102.4718 %	105.6018 %	100.1132 %	0.0000 ppm
Concentration per Run 3	99.1148 %	99.5782 %	99.0625 %	101.1705 %	105.6730 %	99.6762 %	-0.0001 ppm
Recovery Percentage 1							-0.342 %
Concentration RSD	2.3 %	1.3 %	1.4 %	2.3 %	0.5 %	1.1 %	84.1 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: xWG2079820-2 WG2079820
 Analysis started at: 6/26/2025 8:41:31 PM
 Comments: <Comment>
 Rack: 2
 Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0537 ppm	2.1962 ppm	0.1219 ppm	0.9953 ppm	2.0776 ppm	0.0511 ppm	10.1696 ppm
Concentration per Run 1	0.0540 ppm	2.1793 ppm	0.1223 ppm	0.9966 ppm	2.1022 ppm	0.0506 ppm	10.0957 ppm
Concentration per Run 2	0.0538 ppm	2.1947 ppm	0.1217 ppm	0.9957 ppm	2.0640 ppm	0.0515 ppm	10.2364 ppm
Concentration per Run 3	0.0535 ppm	2.2146 ppm	0.1216 ppm	0.9937 ppm	2.0665 ppm	0.0512 ppm	10.1766 ppm
Concentration RSD	0.5 %	0.8 %	0.3 %	0.1 %	1.0 %	0.8 %	0.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0520 ppm	0.5087 ppm	0.2057 ppm	0.2627 ppm	1.0195 ppm	11.2634 ppm	10.4074 ppm
Concentration per Run 1	0.0527 ppm	0.5119 ppm	0.2065 ppm	0.2618 ppm	1.0065 ppm	11.3293 ppm	10.4442 ppm
Concentration per Run 2	0.0518 ppm	0.5085 ppm	0.2055 ppm	0.2631 ppm	1.0278 ppm	11.0484 ppm	10.3940 ppm
Concentration per Run 3	0.0514 ppm	0.5056 ppm	0.2051 ppm	0.2631 ppm	1.0242 ppm	11.4125 ppm	10.3841 ppm
Concentration RSD	1.3 %	0.6 %	0.4 %	0.3 %	1.1 %	1.7 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5070 ppm	0.9624 ppm	10.9472 ppm	0.4809 ppm	0.5166 ppm	0.4863 ppm	0.1263 ppm
Concentration per Run 1	0.5028 ppm	0.9662 ppm	10.9798 ppm	0.4812 ppm	0.5163 ppm	0.4813 ppm	0.1245 ppm
Concentration per Run 2	0.5103 ppm	0.9614 ppm	10.7564 ppm	0.4818 ppm	0.5168 ppm	0.4893 ppm	0.1273 ppm
Concentration per Run 3	0.5079 ppm	0.9597 ppm	11.1053 ppm	0.4798 ppm	0.5168 ppm	0.4884 ppm	0.1271 ppm
Concentration RSD	0.8 %	0.3 %	1.6 %	0.2 %	0.1 %	0.9 %	1.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.0682 ppm	0.9153 ppm	1.0395 ppm	1.0093 ppm	0.1148 ppm	0.5146 ppm	0.5054 ppm
Concentration per Run 1	1.0644 ppm	0.9156 ppm	1.0301 ppm	1.0120 ppm	0.1147 ppm	0.5164 ppm	0.5067 ppm
Concentration per Run 2	1.0718 ppm	0.9175 ppm	1.0437 ppm	1.0082 ppm	0.1143 ppm	0.5140 ppm	0.5047 ppm
Concentration per Run 3	1.0682 ppm	0.9129 ppm	1.0447 ppm	1.0077 ppm	0.1154 ppm	0.5134 ppm	0.5046 ppm
Concentration RSD	0.3 %	0.3 %	0.8 %	0.2 %	0.5 %	0.3 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	98.7936 %	95.7003 %	93.9636 %	98.2938 %	89.4659 %	95.7036 %	-0.0005 ppm
Concentration per Run 1	100.0139 %	95.8992 %	95.1594 %	99.1068 %	89.9991 %	95.7885 %	-0.0006 ppm
Concentration per Run 2	98.1444 %	95.3823 %	93.7358 %	97.7632 %	89.1094 %	95.4983 %	-0.0005 ppm
Concentration per Run 3	98.2224 %	95.8192 %	92.9957 %	98.0115 %	89.2891 %	95.8241 %	-0.0006 ppm
Concentration RSD	1.1 %	0.3 %	1.2 %	0.7 %	0.5 %	0.2 %	13.3 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: xL2535069-04 WG2079820
 Analysis started at: 6/26/2025 8:47:57 PM
 Comments: <Comment>
 Rack: 2
 Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.1974 ppm	0.0004 ppm	0.2143 ppm	0.0120 ppm	0.0000 ppm	30.9953 ppm
Concentration per Run 1	0.0000 ppm	0.1967 ppm	0.0003 ppm	0.2142 ppm	0.0120 ppm	0.0000 ppm	31.1089 ppm
Concentration per Run 2	-0.0003 ppm	0.1989 ppm	0.0004 ppm	0.2135 ppm	0.0121 ppm	0.0000 ppm	31.0584 ppm
Concentration per Run 3	0.0001 ppm	0.1966 ppm	0.0005 ppm	0.2152 ppm	0.0120 ppm	0.0000 ppm	30.8186 ppm
Concentration RSD	330.9 %	0.7 %	30.4 %	0.4 %	0.7 %	75.5 %	0.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0003 ppm	-0.0001 ppm	0.0009 ppm	0.0558 ppm	0.3091 ppm	33.2799 ppm	49.1960 ppm
Concentration per Run 1	0.0003 ppm	0.0000 ppm	0.0008 ppm	0.0563 ppm	0.3106 ppm	32.6044 ppm	49.1421 ppm
Concentration per Run 2	0.0003 ppm	-0.0001 ppm	0.0008 ppm	0.0547 ppm	0.3095 ppm	33.4035 ppm	49.2158 ppm
Concentration per Run 3	0.0004 ppm	-0.0002 ppm	0.0010 ppm	0.0564 ppm	0.3073 ppm	33.8317 ppm	49.2301 ppm
Concentration RSD	14.2 %	108.0 %	15.0 %	1.7 %	0.5 %	1.9 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0344 ppm	0.0030 ppm	474.8737 ppm	0.0068 ppm	-0.0008 ppm	0.0025 ppm	0.0000 ppm
Concentration per Run 1	0.0346 ppm	0.0034 ppm	503.2168 ppm	0.0066 ppm	-0.0010 ppm	0.0023 ppm	0.0020 ppm
Concentration per Run 2	0.0343 ppm	0.0028 ppm	438.2647 ppm	0.0071 ppm	-0.0001 ppm	0.0021 ppm	-0.0020 ppm
Concentration per Run 3	0.0344 ppm	0.0027 ppm	483.1395 ppm	0.0068 ppm	-0.0012 ppm	0.0030 ppm	-0.0001 ppm
Concentration RSD	0.4 %	13.4 %	7.0 %	3.3 %	76.9 %	20.4 %	6,324.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.6425 ppm	0.0019 ppm	0.3517 ppm	0.0017 ppm	-0.0043 ppm	-0.0002 ppm	0.0589 ppm
Concentration per Run 1	4.6715 ppm	0.0015 ppm	0.3514 ppm	0.0018 ppm	-0.0053 ppm	-0.0001 ppm	0.0588 ppm
Concentration per Run 2	4.6216 ppm	0.0015 ppm	0.3521 ppm	0.0016 ppm	-0.0033 ppm	-0.0002 ppm	0.0593 ppm
Concentration per Run 3	4.6345 ppm	0.0027 ppm	0.3517 ppm	0.0017 ppm	-0.0043 ppm	-0.0002 ppm	0.0587 ppm
Concentration RSD	0.6 %	37.4 %	0.1 %	5.4 %	23.3 %	33.8 %	0.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	94.4132 %	81.3240 %	78.5448 %	91.5864 %	61.4269 %	78.7539 %	0.0098 ppm
Concentration per Run 1	95.4714 %	81.1178 %	77.9714 %	91.6883 %	60.8564 %	78.4529 %	0.0096 ppm
Concentration per Run 2	93.8959 %	81.8115 %	79.0542 %	91.5054 %	61.9269 %	79.3653 %	0.0101 ppm
Concentration per Run 3	93.8724 %	81.0427 %	78.6089 %	91.5657 %	61.4974 %	78.4437 %	0.0098 ppm
Concentration RSD	1.0 %	0.5 %	0.7 %	0.1 %	0.9 %	0.7 %	2.5 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: xWG2079820-3 WG2079820
 Analysis started at: 6/26/2025 8:54:38 PM
 Comments: <Comment>
 Rack: 2
 Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0596 ppm	2.4999 ppm	0.1397 ppm	1.2327 ppm	2.1396 ppm	0.0526 ppm	40.9583 ppm
Concentration per Run 1	0.0598 ppm	2.4531 ppm	0.1408 ppm	1.2359 ppm	2.1082 ppm	0.0529 ppm	41.4908 ppm
Concentration per Run 2	0.0600 ppm	2.5269 ppm	0.1375 ppm	1.2369 ppm	2.1835 ppm	0.0527 ppm	40.8978 ppm
Concentration per Run 3	0.0591 ppm	2.5197 ppm	0.1409 ppm	1.2255 ppm	2.1270 ppm	0.0521 ppm	40.4862 ppm
Concentration RSD	0.8 %	1.6 %	1.4 %	0.5 %	1.8 %	0.7 %	1.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0508 ppm	0.4763 ppm	0.2036 ppm	0.3353 ppm	1.2662 ppm	42.3557 ppm	56.7587 ppm
Concentration per Run 1	0.0508 ppm	0.4768 ppm	0.2061 ppm	0.3334 ppm	1.2759 ppm	40.3480 ppm	57.1759 ppm
Concentration per Run 2	0.0511 ppm	0.4792 ppm	0.2048 ppm	0.3400 ppm	1.2655 ppm	43.0890 ppm	57.2009 ppm
Concentration per Run 3	0.0506 ppm	0.4730 ppm	0.1998 ppm	0.3327 ppm	1.2571 ppm	43.6301 ppm	55.8995 ppm
Concentration RSD	0.5 %	0.6 %	1.6 %	1.2 %	0.7 %	4.2 %	1.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5397 ppm	0.9516 ppm	450.6999 ppm	0.5686 ppm	0.5682 ppm	0.6314 ppm	0.1420 ppm
Concentration per Run 1	0.5433 ppm	0.9494 ppm	446.9894 ppm	0.5778 ppm	0.5803 ppm	0.6423 ppm	0.1433 ppm
Concentration per Run 2	0.5405 ppm	0.9571 ppm	436.6518 ppm	0.5644 ppm	0.5623 ppm	0.6269 ppm	0.1415 ppm
Concentration per Run 3	0.5353 ppm	0.9485 ppm	468.4587 ppm	0.5634 ppm	0.5618 ppm	0.6249 ppm	0.1413 ppm
Concentration RSD	0.8 %	0.5 %	3.6 %	1.4 %	1.9 %	1.5 %	0.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.9973 ppm	0.6193 ppm	1.4247 ppm	0.9429 ppm	0.1126 ppm	0.5233 ppm	0.5667 ppm
Concentration per Run 1	6.1053 ppm	0.6294 ppm	1.4120 ppm	0.9514 ppm	0.1123 ppm	0.5290 ppm	0.5742 ppm
Concentration per Run 2	5.9477 ppm	0.6173 ppm	1.4367 ppm	0.9487 ppm	0.1136 ppm	0.5249 ppm	0.5636 ppm
Concentration per Run 3	5.9389 ppm	0.6113 ppm	1.4253 ppm	0.9286 ppm	0.1118 ppm	0.5159 ppm	0.5624 ppm
Concentration RSD	1.6 %	1.5 %	0.9 %	1.3 %	0.9 %	1.3 %	1.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	92.3863 %	81.9960 %	78.3011 %	91.8677 %	60.8979 %	81.0080 %	0.0094 ppm
Concentration per Run 1	92.7627 %	81.7856 %	77.2465 %	91.9861 %	59.9766 %	81.0624 %	0.0090 ppm
Concentration per Run 2	92.2208 %	81.1807 %	78.6667 %	91.5612 %	61.2083 %	80.3759 %	0.0095 ppm
Concentration per Run 3	92.1755 %	83.0217 %	78.9902 %	92.0559 %	61.5089 %	81.5858 %	0.0097 ppm
Concentration RSD	0.4 %	1.1 %	1.2 %	0.3 %	1.3 %	0.7 %	4.0 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: xWG2079820-4 WG2079820
Analysis started at: 6/26/2025 9:01:37 PM
Comments: <Comment>
Rack: 2
Vial: 9

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.2010 ppm	0.0005 ppm	0.2182 ppm	0.0125 ppm	0.0000 ppm	31.9753 ppm
Concentration per Run 1	-0.0001 ppm	0.1959 ppm	0.0008 ppm	0.2181 ppm	0.0124 ppm	0.0001 ppm	32.1790 ppm
Concentration per Run 2	-0.0001 ppm	0.2032 ppm	0.0000 ppm	0.2197 ppm	0.0125 ppm	0.0001 ppm	31.7705 ppm
Concentration per Run 3	-0.0003 ppm	0.2039 ppm	0.0007 ppm	0.2168 ppm	0.0125 ppm	0.0000 ppm	31.9766 ppm
Concentration RSD	75.3 %	2.2 %	83.4 %	0.7 %	0.3 %	68.1 %	0.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0003 ppm	0.0000 ppm	0.0009 ppm	0.0552 ppm	0.3307 ppm	31.7957 ppm	49.9649 ppm
Concentration per Run 1	0.0004 ppm	0.0000 ppm	0.0010 ppm	0.0550 ppm	0.3310 ppm	31.4261 ppm	50.0128 ppm
Concentration per Run 2	0.0003 ppm	0.0002 ppm	0.0011 ppm	0.0556 ppm	0.3307 ppm	32.6004 ppm	49.8908 ppm
Concentration per Run 3	0.0003 ppm	-0.0001 ppm	0.0005 ppm	0.0550 ppm	0.3305 ppm	31.3606 ppm	49.9910 ppm
Concentration RSD	13.3 %	627.3 %	33.5 %	0.7 %	0.1 %	2.2 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0359 ppm	0.0035 ppm	456.9763 ppm	0.0072 ppm	0.0000 ppm	0.0014 ppm	0.0006 ppm
Concentration per Run 1	0.0359 ppm	0.0039 ppm	455.0135 ppm	0.0074 ppm	-0.0002 ppm	0.0010 ppm	0.0020 ppm
Concentration per Run 2	0.0359 ppm	0.0036 ppm	447.4382 ppm	0.0070 ppm	0.0000 ppm	0.0019 ppm	-0.0005 ppm
Concentration per Run 3	0.0358 ppm	0.0031 ppm	468.4771 ppm	0.0072 ppm	0.0003 ppm	0.0014 ppm	0.0004 ppm
Concentration RSD	0.2 %	11.8 %	2.3 %	2.4 %	1,608.0 %	28.3 %	204.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	4.7985 ppm	0.0018 ppm	0.3615 ppm	0.0017 ppm	-0.0039 ppm	-0.0001 ppm	0.0609 ppm
Concentration per Run 1	4.8061 ppm	0.0013 ppm	0.3607 ppm	0.0015 ppm	-0.0043 ppm	-0.0001 ppm	0.0609 ppm
Concentration per Run 2	4.7941 ppm	0.0021 ppm	0.3634 ppm	0.0017 ppm	-0.0035 ppm	-0.0001 ppm	0.0608 ppm
Concentration per Run 3	4.7952 ppm	0.0019 ppm	0.3603 ppm	0.0018 ppm	-0.0039 ppm	-0.0001 ppm	0.0610 ppm
Concentration RSD	0.1 %	22.5 %	0.5 %	9.6 %	10.1 %	20.5 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	93.1708 %	81.1702 %	79.0519 %	89.4226 %	59.2661 %	77.4241 %	0.0095 ppm
Concentration per Run 1	93.3335 %	81.1907 %	78.2525 %	89.3900 %	59.2098 %	77.4098 %	0.0094 ppm
Concentration per Run 2	93.1842 %	81.0540 %	79.8493 %	89.3501 %	59.3855 %	77.2218 %	0.0100 ppm
Concentration per Run 3	92.9948 %	81.2658 %	79.0540 %	89.5277 %	59.2029 %	77.6407 %	0.0092 ppm
Concentration RSD	0.2 %	0.1 %	1.0 %	0.1 %	0.2 %	0.3 %	4.0 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: xline disconnected
 Analysis started at: 6/26/2025 9:08:36 PM
 Comments: <Comment>
 Rack: 2
 Vial: 10

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	1.2692 ppm	0.0025 ppm	0.0001 ppm	0.6267 ppm	0.0198 ppm	24.5916 ppm
Concentration per Run 1	0.0001 ppm	2.3673 ppm	0.0025 ppm	0.0004 ppm	1.1523 ppm	0.0364 ppm	45.2061 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0026 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 3	0.0000 ppm	0.1710 ppm	0.0026 ppm	0.0000 ppm	0.1010 ppm	0.0031 ppm	3.9770 ppm
Concentration RSD	115.0 %	122.4 %	3.1 %	135.1 %	118.6 %	119.4 %	118.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0003 ppm	0.0004 ppm	-0.0048 ppm	0.9125 ppm	13.8053 ppm	0.0748 ppm
Concentration per Run 1	0.0000 ppm	0.0003 ppm	0.0005 ppm	-0.0047 ppm	1.6997 ppm	25.1688 ppm	0.1039 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0003 ppm	-0.0048 ppm	0.0000 ppm	0.0000 ppm	0.0683 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0003 ppm	-0.0049 ppm	0.1252 ppm	2.4417 ppm	0.0521 ppm
Concentration RSD	34.3 %	29.4 %	27.5 %	1.9 %	122.0 %	116.4 %	35.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.2458 ppm	0.0028 ppm	156.7884 ppm	0.0011 ppm	0.0019 ppm	0.0012 ppm	0.0003 ppm
Concentration per Run 1	0.4525 ppm	0.0038 ppm	280.0690 ppm	0.0012 ppm	0.0020 ppm	0.0012 ppm	0.0003 ppm
Concentration per Run 2	0.0000 ppm	0.0027 ppm	0.0000 ppm	0.0012 ppm	0.0019 ppm	0.0012 ppm	0.0005 ppm
Concentration per Run 3	0.0391 ppm	0.0020 ppm	33.5078 ppm	0.0011 ppm	0.0018 ppm	0.0012 ppm	0.0003 ppm
Concentration RSD	118.9 %	31.3 %	111.2 %	2.2 %	4.6 %	2.3 %	30.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	-0.0018 ppm	0.0005 ppm	0.4436 ppm	0.0024 ppm	0.0033 ppm	0.0021 ppm	0.0007 ppm
Concentration per Run 1	0.0009 ppm	0.0010 ppm	0.8161 ppm	0.0032 ppm	0.0033 ppm	0.0024 ppm	0.0008 ppm
Concentration per Run 2	-0.0024 ppm	0.0004 ppm	0.0000 ppm	0.0024 ppm	0.0033 ppm	0.0021 ppm	0.0007 ppm
Concentration per Run 3	-0.0039 ppm	0.0000 ppm	0.0712 ppm	0.0016 ppm	0.0033 ppm	0.0019 ppm	0.0007 ppm
Concentration RSD	138.7 %	109.4 %	118.7 %	32.0 %	0.7 %	11.5 %	8.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	160.2110 %	793.1194 %	1,241.9902 %	131.2101 %	1,080.5680 %	721.5464 %	0.0017 ppm
Concentration per Run 1	50.0064 %	788.1800 %	1,242.3386 %	39.9291 %	1,065.6875 %	706.6686 %	0.0032 ppm
Concentration per Run 2	0.0000 %	791.8451 %	1,239.7532 %	0.0000 %	1,081.3700 %	722.1253 %	0.0000 ppm
Concentration per Run 3	270.4156 %	799.3330 %	1,243.8787 %	222.4911 %	1,094.6465 %	735.8454 %	0.0003 ppm
Concentration RSD	97.3 %	0.7 %	0.2 %	98.4 %	1.3 %	2.0 %	114.6 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: xline disconnected
Analysis started at: 6/26/2025 9:15:35 PM
Comments: <Comment>
Rack: 2
Vial: 11

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0011 ppm	0.0025 ppm	-0.0006 ppm	0.0000 ppm	-0.0001 ppm	-0.0080 ppm
Concentration per Run 1	0.0000 ppm	0.0007 ppm	0.0024 ppm	-0.0006 ppm	0.0000 ppm	-0.0001 ppm	-0.0072 ppm
Concentration per Run 2	0.0000 ppm	0.0016 ppm	0.0026 ppm	-0.0006 ppm	0.0000 ppm	-0.0001 ppm	-0.0080 ppm
Concentration per Run 3	0.0000 ppm	0.0009 ppm	0.0025 ppm	-0.0006 ppm	0.0000 ppm	-0.0001 ppm	-0.0088 ppm
Concentration RSD	542.8 %	47.5 %	3.3 %	0.4 %	48.7 %	6.7 %	9.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0001 ppm	0.0000 ppm	0.0002 ppm	-0.0053 ppm	0.0000 ppm	-0.0069 ppm	0.0024 ppm
Concentration per Run 1	-0.0001 ppm	0.0000 ppm	0.0001 ppm	-0.0052 ppm	-0.0001 ppm	-0.0055 ppm	0.0026 ppm
Concentration per Run 2	-0.0001 ppm	0.0000 ppm	0.0002 ppm	-0.0053 ppm	0.0000 ppm	-0.0095 ppm	0.0024 ppm
Concentration per Run 3	-0.0001 ppm	0.0000 ppm	0.0002 ppm	-0.0052 ppm	-0.0001 ppm	-0.0056 ppm	0.0021 ppm
Concentration RSD	11.6 %	170.1 %	13.1 %	0.3 %	127.3 %	33.1 %	11.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0004 ppm	0.0054 ppm	0.0010 ppm	0.0018 ppm	0.0010 ppm	0.0004 ppm
Concentration per Run 1	0.0001 ppm	0.0004 ppm	0.0102 ppm	0.0010 ppm	0.0017 ppm	0.0010 ppm	0.0006 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	0.0059 ppm	0.0010 ppm	0.0018 ppm	0.0009 ppm	0.0004 ppm
Concentration per Run 3	0.0000 ppm	0.0003 ppm	0.0001 ppm	0.0010 ppm	0.0017 ppm	0.0010 ppm	0.0002 ppm
Concentration RSD	66.9 %	13.3 %	94.7 %	1.7 %	1.4 %	3.3 %	40.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	-0.0068 ppm	-0.0008 ppm	0.0000 ppm	0.0002 ppm	0.0033 ppm	0.0015 ppm	0.0005 ppm
Concentration per Run 1	-0.0068 ppm	-0.0008 ppm	0.0000 ppm	0.0002 ppm	0.0033 ppm	0.0015 ppm	0.0005 ppm
Concentration per Run 2	-0.0068 ppm	-0.0007 ppm	0.0000 ppm	0.0002 ppm	0.0033 ppm	0.0015 ppm	0.0005 ppm
Concentration per Run 3	-0.0067 ppm	-0.0008 ppm	0.0000 ppm	0.0002 ppm	0.0034 ppm	0.0015 ppm	0.0004 ppm
Concentration RSD	0.2 %	5.4 %	65.0 %	7.3 %	2.2 %	1.2 %	2.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	460.6378 %	827.5301 %	1,276.0934 %	462.6569 %	1,154.8071 %	832.4982 %	-0.0001 ppm
Concentration per Run 1	459.8523 %	826.0191 %	1,274.5258 %	462.7717 %	1,152.5413 %	835.0319 %	-0.0002 ppm
Concentration per Run 2	460.7887 %	828.6794 %	1,276.0151 %	462.4649 %	1,155.1905 %	830.4171 %	0.0000 ppm
Concentration per Run 3	461.2724 %	827.8917 %	1,277.7395 %	462.7341 %	1,156.6894 %	832.0455 %	-0.0002 ppm
Concentration RSD	0.2 %	0.2 %	0.1 %	0.0 %	0.2 %	0.3 %	89.5 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: xline disconnected
Analysis started at: 6/26/2025 9:22:29 PM
Comments: <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0006 ppm	0.0024 ppm	-0.0007 ppm	0.0000 ppm	-0.0001 ppm	-0.0103 ppm
Concentration per Run 1	0.0001 ppm	0.0009 ppm	0.0025 ppm	-0.0006 ppm	0.0000 ppm	-0.0001 ppm	-0.0097 ppm
Concentration per Run 2	0.0000 ppm	0.0003 ppm	0.0023 ppm	-0.0007 ppm	0.0000 ppm	-0.0001 ppm	-0.0109 ppm
Concentration per Run 3	0.0000 ppm	0.0005 ppm	0.0024 ppm	-0.0007 ppm	0.0000 ppm	-0.0001 ppm	-0.0102 ppm
Recovery Percentage 1	0.006 %	0.116 %	0.479 %	-0.131 %	-0.004 %	-0.020 %	-2.054 %
Concentration RSD	126.2 %	56.2 %	3.5 %	6.4 %	31.6 %	3.9 %	5.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0001 ppm	0.0000 ppm	0.0001 ppm	-0.0054 ppm	0.0000 ppm	-0.0073 ppm	0.0006 ppm
Concentration per Run 1	-0.0001 ppm	0.0000 ppm	0.0001 ppm	-0.0053 ppm	0.0003 ppm	-0.0072 ppm	0.0007 ppm
Concentration per Run 2	-0.0001 ppm	0.0000 ppm	0.0001 ppm	-0.0053 ppm	-0.0003 ppm	-0.0042 ppm	0.0005 ppm
Concentration per Run 3	-0.0001 ppm	-0.0001 ppm	0.0001 ppm	-0.0054 ppm	0.0000 ppm	-0.0104 ppm	0.0006 ppm
Recovery Percentage 1	-0.013 %	-0.009 %	0.024 %	-1.070 %	0.006 %	-0.145 %	0.127 %
Concentration RSD	5.2 %	25.3 %	8.3 %	0.5 %	932.4 %	42.8 %	13.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0001 ppm	-0.0076 ppm	0.0010 ppm	0.0018 ppm	0.0009 ppm	0.0004 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	-0.0072 ppm	0.0010 ppm	0.0017 ppm	0.0010 ppm	0.0004 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	-0.0072 ppm	0.0010 ppm	0.0018 ppm	0.0008 ppm	0.0004 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	-0.0083 ppm	0.0010 ppm	0.0018 ppm	0.0010 ppm	0.0004 ppm
Recovery Percentage 1	0.000 %	0.029 %	-0.076 %	0.204 %	0.350 %	0.185 %	0.076 %
Concentration RSD	2,531.9 %	1.7 %	8.2 %	0.5 %	1.6 %	8.7 %	4.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	-0.0068 ppm	-0.0008 ppm	0.0000 ppm	0.0002 ppm	0.0033 ppm	0.0015 ppm	0.0004 ppm
Concentration per Run 1	-0.0069 ppm	-0.0008 ppm	0.0000 ppm	0.0002 ppm	0.0034 ppm	0.0015 ppm	0.0005 ppm
Concentration per Run 2	-0.0068 ppm	-0.0008 ppm	0.0000 ppm	0.0001 ppm	0.0033 ppm	0.0015 ppm	0.0004 ppm
Concentration per Run 3	-0.0068 ppm	-0.0009 ppm	0.0000 ppm	0.0002 ppm	0.0034 ppm	0.0015 ppm	0.0005 ppm
Recovery Percentage 1	-0.130 %	-0.169 %	-0.004 %	0.032 %	0.669 %	0.298 %	0.090 %
Concentration RSD	0.4 %	5.1 %	47.1 %	16.2 %	2.1 %	1.9 %	3.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	456.2857 %	820.5544 %	1,271.8024 %	462.9601 %	1,155.0992 %	833.4415 %	-0.0002 ppm
Concentration per Run 1	455.3799 %	822.0923 %	1,270.4341 %	462.4210 %	1,153.2785 %	834.5464 %	-0.0001 ppm
Concentration per Run 2	455.6429 %	822.0973 %	1,272.4361 %	462.3805 %	1,155.2263 %	826.9550 %	-0.0002 ppm
Concentration per Run 3	457.8341 %	817.4736 %	1,272.5371 %	464.0787 %	1,156.7929 %	838.8232 %	-0.0002 ppm
Recovery Percentage 1							-0.034 %
Concentration RSD	0.3 %	0.3 %	0.1 %	0.2 %	0.2 %	0.7 %	51.3 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: CCV
Analysis started at: 6/27/2025 5:31:38 AM
Comments: <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5219 ppm	0.4872 ppm	0.5360 ppm	0.5212 ppm	0.5035 ppm	0.4900 ppm	0.4893 ppm
Concentration per Run 1	0.5182 ppm	0.4621 ppm	0.5371 ppm	0.5191 ppm	0.4760 ppm	0.4662 ppm	0.4691 ppm
Concentration per Run 2	0.5231 ppm	0.4930 ppm	0.5355 ppm	0.5238 ppm	0.5093 ppm	0.4922 ppm	0.4895 ppm
Concentration per Run 3	0.5244 ppm	0.5063 ppm	0.5355 ppm	0.5206 ppm	0.5253 ppm	0.5116 ppm	0.5094 ppm
Recovery Percentage 1	104.383 %	97.431 %	107.206 %	104.234 %	100.703 %	97.996 %	97.867 %
Concentration RSD	0.6 %	4.6 %	0.2 %	0.5 %	5.0 %	4.6 %	4.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.5140 ppm	0.5472 ppm	0.5555 ppm	0.5355 ppm	0.4671 ppm	5.1560 ppm	0.5398 ppm
Concentration per Run 1	0.5142 ppm	0.5460 ppm	0.5553 ppm	0.5287 ppm	0.4456 ppm	4.7963 ppm	0.5353 ppm
Concentration per Run 2	0.5137 ppm	0.5483 ppm	0.5515 ppm	0.5424 ppm	0.4671 ppm	5.3040 ppm	0.5429 ppm
Concentration per Run 3	0.5140 ppm	0.5473 ppm	0.5597 ppm	0.5354 ppm	0.4887 ppm	5.3677 ppm	0.5411 ppm
Recovery Percentage 1	102.795 %	109.441 %	111.103 %	107.100 %	93.428 %	103.120 %	107.957 %
Concentration RSD	0.0 %	0.2 %	0.7 %	1.3 %	4.6 %	6.1 %	0.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4769 ppm	0.5343 ppm	10.0922 ppm	0.5776 ppm	0.5753 ppm	0.5650 ppm	0.5566 ppm
Concentration per Run 1	0.4538 ppm	0.5323 ppm	9.4006 ppm	0.5754 ppm	0.5719 ppm	0.5622 ppm	0.5609 ppm
Concentration per Run 2	0.4783 ppm	0.5357 ppm	10.3899 ppm	0.5778 ppm	0.5758 ppm	0.5661 ppm	0.5540 ppm
Concentration per Run 3	0.4985 ppm	0.5348 ppm	10.4860 ppm	0.5797 ppm	0.5781 ppm	0.5668 ppm	0.5550 ppm
Recovery Percentage 1	95.372 %	106.853 %	100.922 %	115.524 %	115.053 %	113.004 %	111.329 %
Concentration RSD	4.7 %	0.3 %	6.0 %	0.4 %	0.5 %	0.4 %	0.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	6.2632 ppm	0.5412 ppm	0.5113 ppm	0.5517 ppm	0.5711 ppm	0.5491 ppm	0.5788 ppm
Concentration per Run 1	6.2394 ppm	0.5396 ppm	0.4836 ppm	0.5495 ppm	0.5681 ppm	0.5475 ppm	0.5833 ppm
Concentration per Run 2	6.2642 ppm	0.5412 ppm	0.5167 ppm	0.5519 ppm	0.5718 ppm	0.5473 ppm	0.5752 ppm
Concentration per Run 3	6.2859 ppm	0.5426 ppm	0.5336 ppm	0.5538 ppm	0.5732 ppm	0.5524 ppm	0.5779 ppm
Recovery Percentage 1	119.298 %	108.232 %	102.266 %	110.348 %	114.216 %	109.818 %	115.762 %
Concentration RSD	0.4 %	0.3 %	5.0 %	0.4 %	0.5 %	0.5 %	0.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	87.9440 %	85.4631 %	81.3608 %	102.7572 %	73.7139 %	89.2879 %	0.5158 ppm
Concentration per Run 1	89.8023 %	85.6678 %	81.3355 %	108.0905 %	74.3189 %	89.9462 %	0.4794 ppm
Concentration per Run 2	87.6465 %	84.9685 %	81.2359 %	102.1167 %	73.4592 %	88.6790 %	0.5304 ppm
Concentration per Run 3	86.3833 %	85.7530 %	81.5110 %	98.0643 %	73.3637 %	89.2384 %	0.5376 ppm
Recovery Percentage 1							103.162 %
Concentration RSD	2.0 %	0.5 %	0.2 %	4.9 %	0.7 %	0.7 %	6.2 %

ICP DataTrace 6

6/27/2025 7:11:18 AM



LabBook: WG2083640_06262025T6.imexp

Sample: CCB
Analysis started at: 6/27/2025 5:37:57 AM
Comments: <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0117 ppm	-0.0017 ppm	0.0012 ppm	0.0001 ppm	0.0001 ppm	0.0037 ppm
Concentration per Run 1	0.0000 ppm	0.0147 ppm	-0.0024 ppm	0.0009 ppm	0.0001 ppm	0.0001 ppm	0.0047 ppm
Concentration per Run 2	-0.0002 ppm	0.0104 ppm	-0.0026 ppm	0.0014 ppm	0.0001 ppm	0.0001 ppm	0.0023 ppm
Concentration per Run 3	-0.0003 ppm	0.0099 ppm	0.0000 ppm	0.0012 ppm	0.0001 ppm	0.0000 ppm	0.0040 ppm
Recovery Percentage 1	-2.459 %	11.680 %	-33.855 %	3.864 %	0.928 %	1.395 %	3.685 %
Concentration RSD	81.9 %	22.3 %	85.9 %	22.4 %	22.1 %	30.5 %	32.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0003 ppm	0.0007 ppm	0.0037 ppm	0.0000 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0004 ppm	0.0004 ppm	0.0031 ppm	-0.0003 ppm
Concentration per Run 2	0.0001 ppm	0.0000 ppm	0.0003 ppm	0.0005 ppm	0.0008 ppm	0.0076 ppm	-0.0007 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0001 ppm	0.0002 ppm	0.0009 ppm	0.0003 ppm	0.0011 ppm
Recovery Percentage 1	0.899 %	-0.358 %	1.874 %	3.411 %	1.397 %	0.146 %	0.027 %
Concentration RSD	90.9 %	213.8 %	64.5 %	43.4 %	33.7 %	101.4 %	3,550.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0007 ppm	0.0078 ppm	-0.0004 ppm	-0.0006 ppm	-0.0006 ppm	0.0005 ppm
Concentration per Run 1	0.0001 ppm	0.0007 ppm	0.0064 ppm	-0.0003 ppm	-0.0006 ppm	-0.0007 ppm	0.0002 ppm
Concentration per Run 2	0.0000 ppm	0.0009 ppm	0.0070 ppm	-0.0004 ppm	-0.0004 ppm	-0.0013 ppm	-0.0001 ppm
Concentration per Run 3	-0.0001 ppm	0.0006 ppm	0.0100 ppm	-0.0006 ppm	-0.0009 ppm	0.0002 ppm	0.0014 ppm
Recovery Percentage 1	0.087 %	1.419 %	0.390 %	-1.743 %	-6.352 %	-1.219 %	4.807 %
Concentration RSD	1,335.3 %	20.4 %	24.7 %	31.4 %	45.0 %	119.6 %	161.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0036 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	-0.0020 ppm	0.0002 ppm	-0.0003 ppm
Concentration per Run 1	0.0038 ppm	0.0007 ppm	0.0001 ppm	-0.0001 ppm	-0.0021 ppm	0.0003 ppm	-0.0002 ppm
Concentration per Run 2	0.0030 ppm	-0.0001 ppm	0.0000 ppm	-0.0001 ppm	-0.0012 ppm	0.0002 ppm	-0.0002 ppm
Concentration per Run 3	0.0040 ppm	0.0003 ppm	0.0000 ppm	0.0001 ppm	-0.0026 ppm	0.0001 ppm	-0.0005 ppm
Recovery Percentage 1	0.726 %	0.587 %	0.454 %	-0.324 %	-9.822 %	1.867 %	-6.105 %
Concentration RSD	14.7 %	139.9 %	36.3 %	358.5 %	36.0 %	49.6 %	49.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	89.3998 %	87.6045 %	82.6183 %	89.0887 %	74.7367 %	87.3019 %	0.0000 ppm
Concentration per Run 1	90.5588 %	87.5751 %	82.5730 %	89.7537 %	74.3893 %	87.3331 %	0.0000 ppm
Concentration per Run 2	88.8370 %	87.5388 %	82.3318 %	88.8401 %	74.7396 %	87.2637 %	-0.0001 ppm
Concentration per Run 3	88.8037 %	87.6997 %	82.9502 %	88.6724 %	75.0813 %	87.3087 %	0.0000 ppm
Recovery Percentage 1							-0.470 %
Concentration RSD	1.1 %	0.1 %	0.4 %	0.7 %	0.5 %	0.0 %	193.6 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: Blank DMC Trace6
 Analysis started at: 6/27/2025 6:27:36 AM
 Comments: <Comment>
 Rack: 0
 Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	2.2 %	1.9 %	-0.5 %	0.0 %	0.4 %	0.2 %	0.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.8 %	0.2 %	-3.8 %	0.0 %	0.6 %	0.1 %	-0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-18.2 %	0.2 %	0.1 %	-0.2 %	-0.1 %	-0.2 %	2.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	0.1 %	0.1 %	1.1 %	-0.3 %	-0.1 %	-0.1 %	0.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	0.0000 ppm
Concentration per Run	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	0.0000 ppm
Concentration RSD	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	-2.3 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: ICAL
Analysis started at: 6/27/2025 6:34:17 AM
Comments: <Comment>
Rack: 0
Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	10.0000 ppm
Concentration per Run 1	1.0018 ppm	24.5803 ppm	1.0058 ppm	0.9971 ppm	0.9831 ppm	0.9851 ppm	9.8822 ppm
Concentration per Run 2	1.0004 ppm	25.2075 ppm	0.9976 ppm	1.0007 ppm	1.0067 ppm	0.9994 ppm	9.9389 ppm
Concentration per Run 3	0.9978 ppm	25.2122 ppm	0.9965 ppm	1.0022 ppm	1.0102 ppm	1.0155 ppm	10.1789 ppm
Concentration RSD	0.2 %	1.5 %	0.5 %	0.3 %	1.5 %	1.5 %	1.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	35.0000 ppm	10.0000 ppm
Concentration per Run 1	0.9936 ppm	0.9947 ppm	1.0085 ppm	0.9947 ppm	24.6362 ppm	34.5930 ppm	10.0352 ppm
Concentration per Run 2	0.9973 ppm	1.0013 ppm	0.9943 ppm	1.0049 ppm	24.9845 ppm	35.7087 ppm	9.9886 ppm
Concentration per Run 3	1.0092 ppm	1.0040 ppm	0.9972 ppm	1.0003 ppm	25.3793 ppm	34.6983 ppm	9.9762 ppm
Concentration RSD	0.8 %	0.5 %	0.8 %	0.5 %	1.5 %	1.8 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.0000 ppm	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	0.9852 ppm	0.9938 ppm	24.4912 ppm	1.0018 ppm	1.0019 ppm	1.0020 ppm	1.0049 ppm
Concentration per Run 2	0.9974 ppm	1.0023 ppm	25.5652 ppm	0.9966 ppm	0.9990 ppm	1.0011 ppm	0.9986 ppm
Concentration per Run 3	1.0174 ppm	1.0039 ppm	24.9436 ppm	1.0016 ppm	0.9991 ppm	0.9969 ppm	0.9965 ppm
Concentration RSD	1.6 %	0.5 %	2.2 %	0.3 %	0.2 %	0.3 %	0.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	10.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	10.0412 ppm	1.0015 ppm	0.9833 ppm	1.0045 ppm	1.0012 ppm	1.0058 ppm	1.0014 ppm
Concentration per Run 2	9.9957 ppm	0.9987 ppm	1.0057 ppm	0.9970 ppm	0.9999 ppm	0.9978 ppm	0.9935 ppm
Concentration per Run 3	9.9631 ppm	0.9998 ppm	1.0110 ppm	0.9984 ppm	0.9989 ppm	0.9964 ppm	1.0051 ppm
Concentration RSD	0.4 %	0.1 %	1.5 %	0.4 %	0.1 %	0.5 %	0.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	98.7400 %	95.0168 %	95.7895 %	103.8830 %	85.6362 %	96.8287 %	1.0000 ppm
Concentration per Run 1	99.3818 %	95.0520 %	95.2760 %	105.5422 %	85.3115 %	97.1332 %	0.9792 ppm
Concentration per Run 2	98.9129 %	94.8930 %	95.8144 %	103.8176 %	85.5487 %	96.5348 %	1.0244 ppm
Concentration per Run 3	97.9252 %	95.1055 %	96.2781 %	102.2891 %	86.0484 %	96.8181 %	0.9964 ppm
Concentration RSD	0.8 %	0.1 %	0.5 %	1.6 %	0.4 %	0.3 %	2.3 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: ICV
Analysis started at: 6/27/2025 6:44:26 AM
Comments: <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5031 ppm	0.5117 ppm	0.4842 ppm	0.5006 ppm	0.5104 ppm	0.5215 ppm	0.5264 ppm
Concentration per Run 1	0.5069 ppm	0.5051 ppm	0.4806 ppm	0.5050 ppm	0.5053 ppm	0.5179 ppm	0.5288 ppm
Concentration per Run 2	0.5035 ppm	0.5147 ppm	0.4861 ppm	0.5027 ppm	0.5109 ppm	0.5232 ppm	0.5289 ppm
Concentration per Run 3	0.4989 ppm	0.5154 ppm	0.4860 ppm	0.4941 ppm	0.5149 ppm	0.5234 ppm	0.5217 ppm
Recovery Percentage 1	100.620 %	102.349 %	96.844 %	100.116 %	102.080 %	104.305 %	105.286 %
Concentration RSD	0.8 %	1.1 %	0.7 %	1.1 %	0.9 %	0.6 %	0.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.5078 ppm	0.5170 ppm	0.5064 ppm	0.4969 ppm	0.5279 ppm	5.2196 ppm	0.5184 ppm
Concentration per Run 1	0.5135 ppm	0.5222 ppm	0.5071 ppm	0.5023 ppm	0.5269 ppm	5.1398 ppm	0.5224 ppm
Concentration per Run 2	0.5104 ppm	0.5195 ppm	0.5065 ppm	0.4988 ppm	0.5307 ppm	5.2081 ppm	0.5205 ppm
Concentration per Run 3	0.4996 ppm	0.5093 ppm	0.5056 ppm	0.4895 ppm	0.5262 ppm	5.3109 ppm	0.5121 ppm
Recovery Percentage 1	101.568 %	103.401 %	101.279 %	99.371 %	105.581 %	104.392 %	103.671 %
Concentration RSD	1.4 %	1.3 %	0.1 %	1.3 %	0.5 %	1.7 %	1.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5272 ppm	0.5002 ppm	10.3775 ppm	0.4955 ppm	0.5026 ppm	0.4855 ppm	0.4954 ppm
Concentration per Run 1	0.5241 ppm	0.5046 ppm	10.1545 ppm	0.4913 ppm	0.4976 ppm	0.4806 ppm	0.4926 ppm
Concentration per Run 2	0.5288 ppm	0.5021 ppm	10.4185 ppm	0.5010 ppm	0.5067 ppm	0.4904 ppm	0.4986 ppm
Concentration per Run 3	0.5286 ppm	0.4939 ppm	10.5595 ppm	0.4941 ppm	0.5035 ppm	0.4854 ppm	0.4949 ppm
Recovery Percentage 1	105.437 %	100.038 %	103.775 %	99.094 %	100.521 %	97.095 %	99.071 %
Concentration RSD	0.5 %	1.1 %	2.0 %	1.0 %	0.9 %	1.0 %	0.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.3773 ppm	0.4794 ppm	0.5116 ppm	0.4977 ppm	0.5134 ppm	0.5064 ppm	0.5172 ppm
Concentration per Run 1	5.3174 ppm	0.4740 ppm	0.5067 ppm	0.5009 ppm	0.5076 ppm	0.5088 ppm	0.5150 ppm
Concentration per Run 2	5.4364 ppm	0.4858 ppm	0.5124 ppm	0.4971 ppm	0.5177 ppm	0.5068 ppm	0.5217 ppm
Concentration per Run 3	5.3781 ppm	0.4786 ppm	0.5156 ppm	0.4951 ppm	0.5151 ppm	0.5037 ppm	0.5148 ppm
Recovery Percentage 1	102.425 %	95.890 %	102.313 %	99.543 %	102.688 %	101.284 %	103.432 %
Concentration RSD	1.1 %	1.2 %	0.9 %	0.6 %	1.0 %	0.5 %	0.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	98.6037 %	98.8556 %	98.9924 %	100.2557 %	93.0871 %	100.1291 %	0.5360 ppm
Concentration per Run 1	98.7797 %	98.2743 %	99.8274 %	100.9071 %	94.2288 %	99.4027 %	0.5249 ppm
Concentration per Run 2	98.6462 %	98.5380 %	98.4488 %	100.0270 %	92.1064 %	99.7887 %	0.5375 ppm
Concentration per Run 3	98.3852 %	99.7547 %	98.7008 %	99.8329 %	92.9260 %	101.1960 %	0.5456 ppm
Recovery Percentage 1							107.198 %
Concentration RSD	0.2 %	0.8 %	0.7 %	0.6 %	1.1 %	0.9 %	1.9 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: ICB
Analysis started at: 6/27/2025 6:50:44 AM
Comments: <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	-0.0009 ppm	0.0004 ppm	0.0011 ppm	0.0000 ppm	0.0000 ppm	-0.0004 ppm
Concentration per Run 1	-0.0001 ppm	-0.0005 ppm	0.0011 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	-0.0012 ppm
Concentration per Run 2	-0.0003 ppm	-0.0021 ppm	0.0002 ppm	0.0011 ppm	0.0001 ppm	0.0000 ppm	-0.0006 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	0.0011 ppm	0.0000 ppm	0.0000 ppm	0.0005 ppm
Recovery Percentage 1	-2.015 %	-0.902 %	7.534 %	3.600 %	0.337 %	0.309 %	-0.413 %
Concentration RSD	116.9 %	112.5 %	169.2 %	8.4 %	113.1 %	120.4 %	206.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0010 ppm	-0.0019 ppm	0.0011 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0021 ppm	-0.0006 ppm	0.0003 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0006 ppm	-0.0027 ppm	0.0011 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0004 ppm	-0.0024 ppm	0.0019 ppm
Recovery Percentage 1	-0.025 %	-0.452 %	0.723 %	0.825 %	2.048 %	-0.076 %	1.076 %
Concentration RSD	2,808.6 %	54.7 %	114.5 %	92.0 %	92.2 %	61.6 %	72.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0005 ppm	-0.0036 ppm	-0.0001 ppm	-0.0002 ppm	-0.0002 ppm	-0.0007 ppm
Concentration per Run 1	0.0001 ppm	0.0004 ppm	-0.0072 ppm	0.0000 ppm	-0.0001 ppm	-0.0006 ppm	-0.0004 ppm
Concentration per Run 2	0.0000 ppm	0.0006 ppm	-0.0027 ppm	-0.0003 ppm	-0.0001 ppm	0.0003 ppm	-0.0025 ppm
Concentration per Run 3	-0.0002 ppm	0.0004 ppm	-0.0009 ppm	0.0000 ppm	-0.0004 ppm	-0.0002 ppm	0.0007 ppm
Recovery Percentage 1	0.060 %	0.963 %	-0.179 %	-0.407 %	-1.936 %	-0.331 %	-7.313 %
Concentration RSD	2,584.3 %	21.4 %	90.2 %	178.8 %	79.5 %	258.6 %	221.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0002 ppm	0.0003 ppm	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 1	-0.0002 ppm	0.0007 ppm	0.0000 ppm	0.0002 ppm	-0.0003 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 2	0.0003 ppm	-0.0004 ppm	0.0000 ppm	0.0001 ppm	0.0015 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 3	0.0003 ppm	0.0006 ppm	0.0000 ppm	0.0000 ppm	-0.0007 ppm	0.0001 ppm	-0.0001 ppm
Recovery Percentage 1	0.031 %	0.547 %	-0.013 %	0.956 %	0.888 %	0.747 %	-0.901 %
Concentration RSD	189.0 %	218.4 %	1,581.5 %	93.8 %	653.7 %	90.4 %	160.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.1551 %	99.6203 %	98.4329 %	99.9471 %	97.6407 %	98.8279 %	0.0001 ppm
Concentration per Run 1	100.5918 %	99.3657 %	100.6004 %	100.9060 %	99.0482 %	98.4371 %	-0.0002 ppm
Concentration per Run 2	99.8307 %	99.9825 %	96.7502 %	99.4278 %	96.6847 %	99.1543 %	0.0004 ppm
Concentration per Run 3	100.0429 %	99.5126 %	97.9481 %	99.5074 %	97.1891 %	98.8922 %	0.0002 ppm
Recovery Percentage 1							1.447 %
Concentration RSD	0.4 %	0.3 %	2.0 %	0.8 %	1.3 %	0.4 %	204.8 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: ICV
Analysis started at: 6/27/2025 7:02:43 AM
Comments: <Comment>
Rack: 0
Vial: 10

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5141 ppm	0.5063 ppm	0.4813 ppm	0.5121 ppm	0.5004 ppm	0.5102 ppm	0.5127 ppm
Concentration per Run 1	0.5040 ppm	0.4975 ppm	0.4838 ppm	0.5057 ppm	0.4922 ppm	0.5052 ppm	0.5147 ppm
Concentration per Run 2	0.5312 ppm	0.5148 ppm	0.4811 ppm	0.5213 ppm	0.5049 ppm	0.5088 ppm	0.5049 ppm
Concentration per Run 3	0.5072 ppm	0.5066 ppm	0.4790 ppm	0.5094 ppm	0.5039 ppm	0.5165 ppm	0.5185 ppm
Recovery Percentage 1	102.826 %	101.255 %	96.258 %	102.425 %	100.071 %	102.033 %	102.536 %
Concentration RSD	2.9 %	1.7 %	0.5 %	1.6 %	1.4 %	1.1 %	1.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.5146 ppm	0.5296 ppm	0.5210 ppm	0.5122 ppm	0.5141 ppm	5.2222 ppm	0.5312 ppm
Concentration per Run 1	0.5064 ppm	0.5225 ppm	0.5063 ppm	0.5077 ppm	0.5095 ppm	5.0557 ppm	0.5195 ppm
Concentration per Run 2	0.5228 ppm	0.5392 ppm	0.5451 ppm	0.5205 ppm	0.5134 ppm	5.4849 ppm	0.5450 ppm
Concentration per Run 3	0.5145 ppm	0.5271 ppm	0.5117 ppm	0.5083 ppm	0.5195 ppm	5.1261 ppm	0.5293 ppm
Recovery Percentage 1	102.917 %	105.918 %	104.202 %	102.440 %	102.826 %	104.444 %	106.250 %
Concentration RSD	1.6 %	1.6 %	4.0 %	1.4 %	1.0 %	4.4 %	2.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5159 ppm	0.5121 ppm	10.3158 ppm	0.4912 ppm	0.4980 ppm	0.4847 ppm	0.4952 ppm
Concentration per Run 1	0.5131 ppm	0.5057 ppm	9.9222 ppm	0.4936 ppm	0.5015 ppm	0.4886 ppm	0.4962 ppm
Concentration per Run 2	0.5125 ppm	0.5217 ppm	10.8595 ppm	0.4907 ppm	0.4980 ppm	0.4834 ppm	0.4960 ppm
Concentration per Run 3	0.5221 ppm	0.5089 ppm	10.1656 ppm	0.4894 ppm	0.4946 ppm	0.4821 ppm	0.4933 ppm
Recovery Percentage 1	103.184 %	102.423 %	103.158 %	98.246 %	99.600 %	96.941 %	99.034 %
Concentration RSD	1.0 %	1.7 %	4.7 %	0.4 %	0.7 %	0.7 %	0.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.3016 ppm	0.4894 ppm	0.5044 ppm	0.5147 ppm	0.5081 ppm	0.5210 ppm	0.5103 ppm
Concentration per Run 1	5.3473 ppm	0.4918 ppm	0.4966 ppm	0.5038 ppm	0.5101 ppm	0.5087 ppm	0.5107 ppm
Concentration per Run 2	5.2999 ppm	0.4886 ppm	0.5082 ppm	0.5329 ppm	0.5089 ppm	0.5412 ppm	0.5088 ppm
Concentration per Run 3	5.2577 ppm	0.4877 ppm	0.5085 ppm	0.5075 ppm	0.5053 ppm	0.5132 ppm	0.5114 ppm
Recovery Percentage 1	100.983 %	97.876 %	100.888 %	102.949 %	101.618 %	104.210 %	102.065 %
Concentration RSD	0.8 %	0.4 %	1.3 %	3.1 %	0.5 %	3.4 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.7591 %	96.3501 %	98.4494 %	102.0114 %	93.0335 %	96.9812 %	0.5228 ppm
Concentration per Run 1	100.1016 %	97.6006 %	97.9339 %	102.8793 %	92.1556 %	98.0459 %	0.5016 ppm
Concentration per Run 2	100.0488 %	93.8060 %	98.2311 %	102.2614 %	93.1139 %	95.0782 %	0.5516 ppm
Concentration per Run 3	99.1268 %	97.6436 %	99.1833 %	100.8936 %	93.8311 %	97.8195 %	0.5153 ppm
Recovery Percentage 1							104.565 %
Concentration RSD	0.5 %	2.3 %	0.7 %	1.0 %	0.9 %	1.7 %	4.9 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: ICB
Analysis started at: 6/27/2025 7:09:05 AM
Comments: <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	-0.0004 ppm	-0.0002 ppm	0.0009 ppm	0.0000 ppm	0.0000 ppm	-0.0018 ppm
Concentration per Run 1	-0.0001 ppm	0.0000 ppm	-0.0008 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 2	-0.0002 ppm	-0.0005 ppm	-0.0008 ppm	0.0008 ppm	0.0000 ppm	0.0000 ppm	-0.0051 ppm
Concentration per Run 3	-0.0003 ppm	-0.0007 ppm	0.0011 ppm	0.0009 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm
Recovery Percentage 1	-2.801 %	-0.413 %	-3.045 %	3.079 %	-0.099 %	0.130 %	-1.768 %
Concentration RSD	44.2 %	92.1 %	738.8 %	11.0 %	426.4 %	326.9 %	163.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0007 ppm	-0.0066 ppm	0.0004 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	-0.0002 ppm	-0.0001 ppm	0.0010 ppm	-0.0046 ppm	0.0008 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0002 ppm	-0.0001 ppm	0.0016 ppm	-0.0030 ppm	0.0006 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0001 ppm	-0.0004 ppm	-0.0121 ppm	-0.0001 ppm
Recovery Percentage 1	-0.319 %	-0.382 %	0.634 %	-0.845 %	1.427 %	-0.264 %	0.433 %
Concentration RSD	302.8 %	45.6 %	314.2 %	9.3 %	140.9 %	73.5 %	107.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0005 ppm	-0.0008 ppm	-0.0001 ppm	0.0001 ppm	0.0001 ppm	-0.0001 ppm
Concentration per Run 1	-0.0001 ppm	0.0007 ppm	-0.0014 ppm	-0.0001 ppm	0.0003 ppm	0.0007 ppm	-0.0003 ppm
Concentration per Run 2	0.0000 ppm	0.0005 ppm	0.0008 ppm	-0.0002 ppm	0.0003 ppm	-0.0002 ppm	0.0011 ppm
Concentration per Run 3	0.0001 ppm	0.0003 ppm	-0.0018 ppm	0.0000 ppm	-0.0003 ppm	-0.0004 ppm	-0.0012 ppm
Recovery Percentage 1	0.462 %	0.971 %	-0.041 %	-0.390 %	1.128 %	0.106 %	-1.433 %
Concentration RSD	225.2 %	40.1 %	170.0 %	61.0 %	319.4 %	1,128.8 %	812.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0002 ppm	-0.0001 ppm
Concentration per Run 1	0.0002 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0002 ppm	-0.0002 ppm
Concentration per Run 2	-0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0002 ppm	-0.0001 ppm
Concentration per Run 3	0.0002 ppm	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	-0.0004 ppm	0.0002 ppm	-0.0001 ppm
Recovery Percentage 1	0.020 %	0.124 %	-0.117 %	-0.128 %	0.157 %	2.151 %	-2.210 %
Concentration RSD	194.3 %	225.5 %	404.1 %	891.6 %	1,372.9 %	14.7 %	41.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.0195 %	100.6656 %	99.0375 %	100.3934 %	98.6096 %	100.4761 %	0.0000 ppm
Concentration per Run 1	101.2956 %	100.5803 %	98.9239 %	100.7933 %	98.2977 %	100.2335 %	-0.0002 ppm
Concentration per Run 2	100.6272 %	100.5687 %	98.1558 %	99.8518 %	98.5569 %	100.4700 %	-0.0001 ppm
Concentration per Run 3	101.1357 %	100.8478 %	100.0328 %	100.5352 %	98.9742 %	100.7248 %	0.0002 ppm
Recovery Percentage 1							-0.205 %
Concentration RSD	0.3 %	0.2 %	1.0 %	0.5 %	0.3 %	0.2 %	1,090.1 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: LLOQ RL Check
 Analysis started at: 6/27/2025 7:15:48 AM
 Comments: <Comment>
 Rack: 0
 Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0052 ppm	0.1040 ppm	0.0044 ppm	0.0310 ppm	0.0103 ppm	0.0052 ppm	0.1127 ppm
Concentration per Run 1	0.0053 ppm	0.1007 ppm	0.0048 ppm	0.0312 ppm	0.0103 ppm	0.0052 ppm	0.1120 ppm
Concentration per Run 2	0.0052 ppm	0.1058 ppm	0.0044 ppm	0.0311 ppm	0.0103 ppm	0.0053 ppm	0.1153 ppm
Concentration per Run 3	0.0052 ppm	0.1055 ppm	0.0040 ppm	0.0308 ppm	0.0104 ppm	0.0052 ppm	0.1110 ppm
Recovery Percentage 1	104.582 %	103.997 %	88.209 %	103.412 %	103.498 %	104.194 %	112.746 %
Concentration RSD	0.9 %	2.8 %	9.3 %	0.7 %	0.7 %	0.8 %	2.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0042 ppm	0.0104 ppm	0.0103 ppm	0.0100 ppm	0.0551 ppm	2.6046 ppm	0.1089 ppm
Concentration per Run 1	0.0042 ppm	0.0105 ppm	0.0102 ppm	0.0100 ppm	0.0546 ppm	2.6005 ppm	0.1084 ppm
Concentration per Run 2	0.0043 ppm	0.0105 ppm	0.0104 ppm	0.0101 ppm	0.0556 ppm	2.5733 ppm	0.1098 ppm
Concentration per Run 3	0.0042 ppm	0.0102 ppm	0.0102 ppm	0.0099 ppm	0.0550 ppm	2.6401 ppm	0.1086 ppm
Recovery Percentage 1	105.412 %	103.990 %	102.769 %	99.959 %	110.106 %	104.184 %	108.900 %
Concentration RSD	1.3 %	1.3 %	1.4 %	0.7 %	0.9 %	1.3 %	0.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0105 ppm	0.0508 ppm	2.0956 ppm	0.0186 ppm	0.0096 ppm	0.0476 ppm	0.0100 ppm
Concentration per Run 1	0.0105 ppm	0.0508 ppm	2.1010 ppm	0.0186 ppm	0.0098 ppm	0.0472 ppm	0.0116 ppm
Concentration per Run 2	0.0106 ppm	0.0511 ppm	2.0653 ppm	0.0186 ppm	0.0095 ppm	0.0479 ppm	0.0075 ppm
Concentration per Run 3	0.0105 ppm	0.0505 ppm	2.1205 ppm	0.0186 ppm	0.0096 ppm	0.0478 ppm	0.0109 ppm
Recovery Percentage 1	105.174 %	101.604 %	104.781 %	93.025 %	96.359 %	95.270 %	99.923 %
Concentration RSD	0.7 %	0.6 %	1.3 %	0.2 %	1.4 %	0.8 %	21.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.5025 ppm	0.0483 ppm	0.0102 ppm	0.0102 ppm	0.0191 ppm	0.0105 ppm	0.0053 ppm
Concentration per Run 1	0.5030 ppm	0.0477 ppm	0.0102 ppm	0.0101 ppm	0.0191 ppm	0.0104 ppm	0.0052 ppm
Concentration per Run 2	0.5032 ppm	0.0488 ppm	0.0102 ppm	0.0104 ppm	0.0189 ppm	0.0105 ppm	0.0053 ppm
Concentration per Run 3	0.5014 ppm	0.0484 ppm	0.0102 ppm	0.0101 ppm	0.0194 ppm	0.0106 ppm	0.0054 ppm
Recovery Percentage 1	100.508 %	96.540 %	102.155 %	101.796 %	95.649 %	104.830 %	106.089 %
Concentration RSD	0.2 %	1.2 %	0.2 %	1.7 %	1.5 %	1.1 %	2.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.0167 %	100.1360 %	99.5869 %	102.1224 %	96.3248 %	100.4215 %	0.0114 ppm
Concentration per Run 1	101.2644 %	100.1263 %	99.9924 %	102.4480 %	96.5761 %	100.3911 %	0.0116 ppm
Concentration per Run 2	100.6453 %	99.5742 %	98.9846 %	101.8376 %	95.8449 %	99.8619 %	0.0114 ppm
Concentration per Run 3	101.1403 %	100.7076 %	99.7838 %	102.0816 %	96.5535 %	101.0115 %	0.0114 ppm
Recovery Percentage 1							114.339 %
Concentration RSD	0.3 %	0.6 %	0.5 %	0.3 %	0.4 %	0.6 %	0.9 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: ICSA
Analysis started at: 6/27/2025 7:22:27 AM
Comments: <Comment>
Rack: 0
Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0004 ppm	519.7081 [SIC 500]	0.0030 ppm	0.0048 ppm	0.0020 ppm	0.0000 ppm	488.7598 ppm
Concentration per Run 1	0.0007 ppm	517.6138 ppm	0.0038 ppm	0.0053 ppm	0.0020 ppm	0.0000 ppm	487.9164 ppm
Concentration per Run 2	0.0003 ppm	521.0017 ppm	0.0043 ppm	0.0044 ppm	0.0021 ppm	-0.0001 ppm	485.2943 ppm
Concentration per Run 3	0.0004 ppm	520.5090 ppm	0.0009 ppm	0.0047 ppm	0.0020 ppm	0.0000 ppm	493.0686 ppm
Recovery Percentage 1	6.339 %	519,708.147 %	60.902 %	16.045 %	20.429 %	-0.369 %	488,759.768 %
Concentration RSD	46.3 %	0.4 %	60.4 %	9.2 %	1.1 %	254.7 %	0.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0003 ppm	0.0004 ppm	-0.0023 ppm	-0.0064 ppm	184.1283 ppm	0.0048 ppm	396.3816 ppm
Concentration per Run 1	-0.0006 ppm	0.0007 ppm	-0.0023 ppm	-0.0065 ppm	184.0441 ppm	-0.0007 ppm	396.3962 ppm
Concentration per Run 2	-0.0001 ppm	0.0003 ppm	-0.0028 ppm	-0.0061 ppm	184.4355 ppm	0.0040 ppm	398.9263 ppm
Concentration per Run 3	-0.0002 ppm	0.0003 ppm	-0.0019 ppm	-0.0065 ppm	183.9052 ppm	0.0110 ppm	393.8223 ppm
Recovery Percentage 1	-7.776 %	2.180 %	-23.414 %	-63.887 %	368,256.545 %	0.191 %	396,381.600 %
Concentration RSD	70.0 %	51.9 %	19.5 %	3.6 %	0.1 %	123.3 %	0.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0019 ppm	-0.0026 ppm	0.0186 ppm	-0.0095 ppm	-0.0108 ppm	-0.0312 ppm	-0.0001 ppm
Concentration per Run 1	0.0020 ppm	-0.0022 ppm	0.0159 ppm	-0.0095 ppm	-0.0111 ppm	-0.0329 ppm	-0.0065 ppm
Concentration per Run 2	0.0020 ppm	-0.0027 ppm	0.0199 ppm	-0.0100 ppm	-0.0123 ppm	-0.0284 ppm	0.0000 ppm
Concentration per Run 3	0.0018 ppm	-0.0029 ppm	0.0198 ppm	-0.0089 ppm	-0.0089 ppm	-0.0323 ppm	0.0061 ppm
Recovery Percentage 1	19.315 %	-5.196 %	0.928 %	-37.878 %	-107.587 %	-62.486 %	-0.969 %
Concentration RSD	5.6 %	13.6 %	12.4 %	6.0 %	15.8 %	7.9 %	6,496.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	-0.0243 ppm	0.0025 ppm	0.0065 ppm	0.0000 ppm	-0.0197 ppm	-0.0024 ppm	-0.0011 ppm
Concentration per Run 1	-0.0248 ppm	0.0031 ppm	0.0064 ppm	0.0000 ppm	-0.0178 ppm	-0.0021 ppm	-0.0011 ppm
Concentration per Run 2	-0.0235 ppm	0.0030 ppm	0.0065 ppm	0.0001 ppm	-0.0182 ppm	-0.0026 ppm	-0.0008 ppm
Concentration per Run 3	-0.0246 ppm	0.0015 ppm	0.0066 ppm	-0.0002 ppm	-0.0232 ppm	-0.0023 ppm	-0.0015 ppm
Recovery Percentage 1	-4.862 %	5.065 %	65.005 %	-0.399 %	-98.560 %	-23.539 %	-22.079 %
Concentration RSD	3.0 %	36.6 %	1.2 %	380.4 %	15.2 %	10.0 %	30.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	90.1976 %	83.5257 %	82.6581 %	91.8652 %	57.8345 %	83.2362 %	-0.0026 ppm
Concentration per Run 1	90.3541 %	83.5109 %	81.6356 %	92.6339 %	57.2857 %	83.3566 %	-0.0027 ppm
Concentration per Run 2	90.2376 %	83.3352 %	83.8736 %	91.6766 %	58.6766 %	82.9440 %	-0.0027 ppm
Concentration per Run 3	90.0011 %	83.7310 %	82.4650 %	91.2850 %	57.5413 %	83.4081 %	-0.0025 ppm
Recovery Percentage 1							-26.414 %
Concentration RSD	0.2 %	0.2 %	1.4 %	0.8 %	1.3 %	0.3 %	4.5 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: SIC Cr Mn V Ti
Analysis started at: 6/27/2025 7:30:32 AM
Comments: <Comment>
Rack: 0
Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0024 ppm	0.0056 ppm	0.0001 ppm	0.0021 ppm	0.0001 ppm	0.0036 ppm	-0.0003 ppm
Concentration per Run 1	0.0024 ppm	0.0074 ppm	-0.0002 ppm	0.0019 ppm	0.0001 ppm	0.0040 ppm	-0.0018 ppm
Concentration per Run 2	0.0023 ppm	0.0028 ppm	0.0016 ppm	0.0023 ppm	0.0001 ppm	0.0036 ppm	-0.0013 ppm
Concentration per Run 3	0.0025 ppm	0.0066 ppm	-0.0011 ppm	0.0019 ppm	0.0001 ppm	0.0031 ppm	0.0022 ppm
Recovery Percentage 1	33.846 %	5.630 %	2.101 %	6.878 %	1.051 %	71.186 %	-0.285 %
Concentration RSD	4.5 %	43.4 %	1,289.6 %	11.0 %	15.4 %	12.9 %	773.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0018 ppm	-0.0122 ppm	20.0144 ppm	-0.0042 ppm	0.0093 ppm	-0.0033 ppm	-0.0603 ppm
Concentration per Run 1	-0.0019 ppm	-0.0131 ppm	19.8521 ppm	-0.0040 ppm	0.0102 ppm	-0.0063 ppm	-0.0565 ppm
Concentration per Run 2	-0.0018 ppm	-0.0123 ppm	20.1648 ppm	-0.0041 ppm	0.0087 ppm	-0.0035 ppm	-0.0628 ppm
Concentration per Run 3	-0.0018 ppm	-0.0114 ppm	20.0263 ppm	-0.0044 ppm	0.0090 ppm	-0.0002 ppm	-0.0616 ppm
Recovery Percentage 1	-45.875 %	-61.245 %	200,144.077 %	-41.683 %	18.597 %	-0.133 %	-60.311 %
Concentration RSD	3.2 %	6.8 %	0.8 %	4.3 %	8.5 %	92.1 %	5.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	20.4497 [SIC 20]	-0.0024 ppm	0.0049 ppm	-0.0002 ppm	-0.0082 ppm	0.0119 ppm	-0.0068 ppm
Concentration per Run 1	20.2292 ppm	-0.0025 ppm	0.0057 ppm	0.0001 ppm	-0.0086 ppm	0.0125 ppm	-0.0087 ppm
Concentration per Run 2	20.5244 ppm	-0.0024 ppm	0.0046 ppm	-0.0004 ppm	-0.0078 ppm	0.0117 ppm	-0.0055 ppm
Concentration per Run 3	20.5954 ppm	-0.0025 ppm	0.0045 ppm	-0.0004 ppm	-0.0081 ppm	0.0115 ppm	-0.0063 ppm
Recovery Percentage 1	204,496.866 %	-4.896 %	0.246 %	-0.874 %	-81.619 %	23.850 %	-68.265 %
Concentration RSD	0.9 %	2.6 %	13.8 %	130.6 %	5.3 %	4.3 %	25.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0672 ppm	-0.0014 ppm	0.0000 ppm	19.9443 ppm	-0.0032 ppm	10.2305 [SIC 10]	0.0044 ppm
Concentration per Run 1	0.0662 ppm	-0.0017 ppm	0.0000 ppm	20.3048 ppm	-0.0022 ppm	10.3355 ppm	0.0038 ppm
Concentration per Run 2	0.0681 ppm	-0.0016 ppm	0.0000 ppm	20.0025 ppm	-0.0025 ppm	10.3055 ppm	0.0047 ppm
Concentration per Run 3	0.0675 ppm	-0.0009 ppm	0.0000 ppm	19.5256 ppm	-0.0050 ppm	10.0506 ppm	0.0048 ppm
Recovery Percentage 1	13.447 %	-2.779 %	0.387 %	199,443.266 %	-16.218 %	102,305.172 %	88.878 %
Concentration RSD	1.4 %	32.5 %	17.6 %	2.0 %	47.6 %	1.5 %	12.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.5619 %	98.8560 %	99.1142 %	101.4412 %	92.1187 %	98.9294 %	-0.0017 ppm
Concentration per Run 1	99.7857 %	98.7362 %	100.0728 %	102.5329 %	93.5644 %	98.7752 %	-0.0017 ppm
Concentration per Run 2	99.1891 %	98.7410 %	98.2975 %	101.1001 %	91.2449 %	98.6876 %	-0.0017 ppm
Concentration per Run 3	99.7108 %	99.0908 %	98.9722 %	100.6907 %	91.5467 %	99.3253 %	-0.0018 ppm
Recovery Percentage 1							-17.397 %
Concentration RSD	0.3 %	0.2 %	0.9 %	1.0 %	1.4 %	0.3 %	5.0 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: LDR Check
Analysis started at: 6/27/2025 7:38:08 AM
Comments: <Comment>
Rack: 0
Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0012 ppm	0.0980 ppm	5.6703 ppm	5.2955 [SIC 20]	10.1077 [SIC 20]	0.0006 ppm	0.0272 ppm
Concentration per Run 1	0.0010 ppm	0.0953 ppm	5.6950 ppm	5.2813 ppm	10.1432 ppm	0.0006 ppm	0.0276 ppm
Concentration per Run 2	0.0015 ppm	0.0996 ppm	5.6284 ppm	5.2937 ppm	9.9967 ppm	0.0007 ppm	0.0296 ppm
Concentration per Run 3	0.0010 ppm	0.0990 ppm	5.6876 ppm	5.3116 ppm	10.1833 ppm	0.0006 ppm	0.0245 ppm
Recovery Percentage 1	0.000 %	0.000 %	113.407 %	105.910 %	101.077 %	0.000 %	0.000 %
Concentration RSD	25.1 %	2.4 %	0.6 %	0.3 %	1.0 %	3.3 %	9.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0002 ppm	0.0010 ppm	-0.0008 ppm	20.4471 [SIC 20]	0.0048 ppm	291.6619 ppm	-0.0397 ppm
Concentration per Run 1	0.0002 ppm	0.0010 ppm	-0.0005 ppm	20.4180 ppm	0.0044 ppm	289.5653 ppm	-0.0386 ppm
Concentration per Run 2	0.0001 ppm	0.0010 ppm	-0.0011 ppm	20.4052 ppm	0.0044 ppm	291.1478 ppm	-0.0421 ppm
Concentration per Run 3	0.0001 ppm	0.0010 ppm	-0.0009 ppm	20.5182 ppm	0.0055 ppm	294.2725 ppm	-0.0385 ppm
Recovery Percentage 1	0.000 %	0.000 %	0.000 %	102.236 %	0.000 %	97.221 %	0.000 %
Concentration RSD	20.5 %	2.4 %	40.9 %	0.3 %	12.9 %	0.8 %	5.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0004 ppm	5.1254 [SIC 20]	447.4595 ppm	10.7365 [SIC 20]	51.1597 ppm	-0.0034 ppm	-0.0010 ppm
Concentration per Run 1	0.0001 ppm	5.0805 ppm	468.5470 ppm	10.7441 ppm	51.2988 ppm	-0.0029 ppm	-0.0019 ppm
Concentration per Run 2	0.0006 ppm	5.1483 ppm	434.6806 ppm	10.7081 ppm	50.9369 ppm	-0.0035 ppm	-0.0020 ppm
Concentration per Run 3	0.0003 ppm	5.1475 ppm	439.1510 ppm	10.7575 ppm	51.2435 ppm	-0.0037 ppm	0.0009 ppm
Recovery Percentage 1	0.000 %	102.509 %	89.492 %	107.365 %	102.319 %	0.000 %	0.000 %
Concentration RSD	70.5 %	0.8 %	4.1 %	0.2 %	0.4 %	12.0 %	164.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	24.6286 [SIC 200]	0.0026 ppm	0.0010 ppm	0.0010 ppm	-0.0055 ppm	0.0028 ppm	20.5419 [SIC 20]
Concentration per Run 1	24.8105 ppm	0.0024 ppm	0.0010 ppm	0.0011 ppm	-0.0066 ppm	0.0029 ppm	20.4373 ppm
Concentration per Run 2	24.4155 ppm	0.0029 ppm	0.0010 ppm	0.0008 ppm	-0.0035 ppm	0.0029 ppm	20.5799 ppm
Concentration per Run 3	24.6596 ppm	0.0025 ppm	0.0010 ppm	0.0010 ppm	-0.0063 ppm	0.0027 ppm	20.6086 ppm
Recovery Percentage 1	123.143 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %	102.710 %
Concentration RSD	0.8 %	9.6 %	2.9 %	13.5 %	30.7 %	5.2 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	93.1455 %	83.2805 %	84.0596 %	94.1100 %	67.9243 %	82.2706 %	5.0154 ppm
Concentration per Run 1	92.9952 %	83.1711 %	83.0445 %	94.4584 %	67.1435 %	82.2065 %	5.0053 ppm
Concentration per Run 2	93.4646 %	83.5532 %	85.3545 %	94.0507 %	68.7743 %	82.5464 %	4.9811 ppm
Concentration per Run 3	92.9767 %	83.1170 %	83.7798 %	93.8208 %	67.8550 %	82.0590 %	5.0598 ppm
Recovery Percentage 1							100.308 %
Concentration RSD	0.3 %	0.3 %	1.4 %	0.3 %	1.2 %	0.3 %	0.8 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: LDR 5 As pass
Analysis started at: 6/27/2025 7:57:35 AM
Comments: <Comment>
Rack: 1
Vial: 1

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0003 ppm	0.0008 ppm	4.8996 ppm	0.0027 ppm	0.0000 ppm	0.0000 ppm	0.0055 ppm
Concentration per Run 1	0.0003 ppm	0.0017 ppm	4.9143 ppm	0.0029 ppm	0.0000 ppm	0.0000 ppm	0.0037 ppm
Concentration per Run 2	0.0003 ppm	-0.0005 ppm	4.8943 ppm	0.0027 ppm	0.0000 ppm	0.0000 ppm	0.0058 ppm
Concentration per Run 3	0.0003 ppm	0.0011 ppm	4.8901 ppm	0.0027 ppm	-0.0001 ppm	0.0000 ppm	0.0068 ppm
Concentration RSD	2.4 %	144.7 %	0.3 %	3.5 %	41.6 %	66.5 %	28.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	-0.0011 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0015 ppm	0.0166 ppm	0.0023 ppm
Concentration per Run 1	-0.0011 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0010 ppm	0.0148 ppm	0.0040 ppm
Concentration per Run 2	-0.0011 ppm	-0.0001 ppm	-0.0002 ppm	0.0001 ppm	0.0021 ppm	0.0191 ppm	0.0021 ppm
Concentration per Run 3	-0.0010 ppm	0.0000 ppm	0.0002 ppm	0.0000 ppm	0.0013 ppm	0.0160 ppm	0.0007 ppm
Concentration RSD	2.0 %	619.0 %	1,311.8 %	186.5 %	40.4 %	13.5 %	71.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0003 ppm	0.0004 ppm	0.0163 ppm	0.0000 ppm	0.0000 ppm	0.0042 ppm	-0.0001 ppm
Concentration per Run 1	0.0003 ppm	0.0004 ppm	0.0162 ppm	-0.0002 ppm	0.0001 ppm	0.0042 ppm	0.0001 ppm
Concentration per Run 2	0.0005 ppm	0.0004 ppm	0.0144 ppm	0.0000 ppm	0.0002 ppm	0.0044 ppm	-0.0008 ppm
Concentration per Run 3	0.0002 ppm	0.0004 ppm	0.0181 ppm	0.0001 ppm	-0.0002 ppm	0.0041 ppm	0.0003 ppm
Concentration RSD	41.9 %	9.9 %	11.3 %	497.3 %	1,362.6 %	3.5 %	464.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0003 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0003 ppm	0.0005 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0001 ppm	-0.0006 ppm	0.0004 ppm	0.0005 ppm
Concentration per Run 2	0.0006 ppm	0.0005 ppm	0.0000 ppm	-0.0001 ppm	0.0007 ppm	0.0002 ppm	0.0005 ppm
Concentration per Run 3	0.0003 ppm	-0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0005 ppm	0.0004 ppm	0.0004 ppm
Concentration RSD	93.8 %	283.9 %	97.0 %	196.2 %	363.6 %	32.9 %	7.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.3831 %	102.3824 %	102.2698 %	100.5735 %	101.8584 %	101.4149 %	0.0003 ppm
Concentration per Run 1	102.5147 %	102.4504 %	102.0688 %	101.5394 %	101.4852 %	101.4125 %	0.0002 ppm
Concentration per Run 2	101.0672 %	101.9829 %	102.3119 %	100.1961 %	101.6217 %	101.0791 %	0.0004 ppm
Concentration per Run 3	100.5674 %	102.7138 %	102.4286 %	99.9850 %	102.4683 %	101.7531 %	0.0002 ppm
Concentration RSD	1.0 %	0.4 %	0.2 %	0.8 %	0.5 %	0.3 %	41.6 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: zLDR 20 Zn
 Analysis started at: 6/27/2025 8:04:12 AM
 Comments: <Comment>
 Rack: 1
 Vial: 2

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	-0.0005 ppm	0.0004 ppm	0.0025 ppm	0.0002 ppm	0.0000 ppm	0.0055 ppm
Concentration per Run 1	-0.0004 ppm	-0.0007 ppm	0.0024 ppm	0.0025 ppm	0.0002 ppm	0.0000 ppm	0.0052 ppm
Concentration per Run 2	-0.0002 ppm	-0.0005 ppm	-0.0009 ppm	0.0024 ppm	0.0002 ppm	0.0000 ppm	0.0058 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	-0.0003 ppm	0.0026 ppm	0.0002 ppm	0.0000 ppm	0.0054 ppm
Concentration RSD	87.7 %	58.7 %	490.4 %	3.2 %	2.0 %	55.1 %	4.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0007 ppm	0.0071 ppm	0.0022 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0014 ppm	0.0088 ppm	0.0020 ppm
Concentration per Run 2	0.0002 ppm	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0087 ppm	0.0015 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0008 ppm	0.0038 ppm	0.0032 ppm
Concentration RSD	16.4 %	3,146.7 %	206.4 %	9.4 %	92.2 %	40.4 %	39.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	0.0004 ppm	0.0066 ppm	0.0010 ppm	0.0005 ppm	-0.0021 ppm	-0.0006 ppm
Concentration per Run 1	0.0001 ppm	0.0004 ppm	0.0048 ppm	0.0010 ppm	0.0008 ppm	-0.0015 ppm	-0.0011 ppm
Concentration per Run 2	0.0002 ppm	0.0005 ppm	0.0076 ppm	0.0010 ppm	0.0004 ppm	-0.0020 ppm	-0.0002 ppm
Concentration per Run 3	0.0002 ppm	0.0003 ppm	0.0076 ppm	0.0011 ppm	0.0003 ppm	-0.0028 ppm	-0.0007 ppm
Concentration RSD	22.6 %	24.2 %	24.2 %	8.5 %	52.1 %	30.1 %	69.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0004 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0002 ppm	19.4974 ppm
Concentration per Run 1	0.0005 ppm	0.0003 ppm	0.0000 ppm	0.0001 ppm	0.0011 ppm	0.0002 ppm	19.4406 ppm
Concentration per Run 2	0.0005 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	-0.0004 ppm	0.0001 ppm	19.4801 ppm
Concentration per Run 3	0.0002 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0002 ppm	19.5717 ppm
Concentration RSD	36.2 %	57.9 %	251.0 %	411.0 %	342.5 %	29.2 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.4886 %	100.6406 %	100.2445 %	99.8358 %	99.2189 %	100.1338 %	0.0000 ppm
Concentration per Run 1	100.7057 %	100.3584 %	99.8317 %	100.2274 %	99.2411 %	99.7447 %	0.0000 ppm
Concentration per Run 2	100.2728 %	100.2309 %	100.3842 %	99.7615 %	99.1715 %	99.7984 %	-0.0001 ppm
Concentration per Run 3	100.4872 %	101.3324 %	100.5175 %	99.5186 %	99.2442 %	100.8583 %	0.0000 ppm
Concentration RSD	0.2 %	0.6 %	0.4 %	0.4 %	0.0 %	0.6 %	264.1 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: LDR 500 Mg pass
 Analysis started at: 6/27/2025 8:10:50 AM
 Comments: <Comment>
 Rack: 1
 Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0017 ppm	0.0014 ppm	0.0026 ppm	0.0013 ppm	0.0000 ppm	-0.0018 ppm
Concentration per Run 1	0.0001 ppm	0.0012 ppm	0.0016 ppm	0.0026 ppm	0.0013 ppm	0.0000 ppm	-0.0003 ppm
Concentration per Run 2	0.0001 ppm	0.0052 ppm	0.0020 ppm	0.0028 ppm	0.0013 ppm	0.0000 ppm	-0.0040 ppm
Concentration per Run 3	-0.0001 ppm	-0.0012 ppm	0.0007 ppm	0.0023 ppm	0.0013 ppm	0.0000 ppm	-0.0012 ppm
Recovery Percentage 1	0.502 %	1.740 %	28.658 %	8.567 %	13.084 %	-0.037 %	-1.832 %
Concentration RSD	292.5 %	183.0 %	48.4 %	8.8 %	2.2 %	1,228.3 %	104.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0002 ppm	-0.0004 ppm	-0.0048 ppm	-0.0381 ppm	0.0096 ppm	500.9687 [SIC 500]
Concentration per Run 1	0.0000 ppm	0.0002 ppm	-0.0003 ppm	-0.0048 ppm	-0.0377 ppm	0.0066 ppm	491.8693 ppm
Concentration per Run 2	0.0000 ppm	0.0004 ppm	-0.0004 ppm	-0.0049 ppm	-0.0385 ppm	0.0146 ppm	496.8497 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	-0.0004 ppm	-0.0046 ppm	-0.0380 ppm	0.0075 ppm	514.1872 ppm
Recovery Percentage 1	0.834 %	1.164 %	-3.565 %	-47.707 %	-76.177 %	0.384 %	500,968.743 %
Concentration RSD	46.6 %	76.8 %	18.2 %	2.9 %	1.0 %	45.6 %	2.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0011 ppm	0.0003 ppm	0.0147 ppm	-0.0002 ppm	-0.0003 ppm	0.0011 ppm	-0.0008 ppm
Concentration per Run 1	0.0012 ppm	0.0003 ppm	0.0146 ppm	-0.0004 ppm	-0.0001 ppm	0.0012 ppm	0.0001 ppm
Concentration per Run 2	0.0012 ppm	0.0003 ppm	0.0148 ppm	0.0000 ppm	-0.0006 ppm	0.0007 ppm	-0.0012 ppm
Concentration per Run 3	0.0010 ppm	0.0003 ppm	0.0148 ppm	-0.0002 ppm	-0.0003 ppm	0.0013 ppm	-0.0012 ppm
Recovery Percentage 1	11.272 %	0.631 %	0.736 %	-0.911 %	-3.415 %	2.131 %	-7.886 %
Concentration RSD	9.4 %	5.8 %	0.9 %	93.0 %	73.7 %	32.5 %	96.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0038 ppm	0.0007 ppm	0.0016 ppm	0.0005 ppm	-0.0014 ppm	-0.0008 ppm	0.0002 ppm
Concentration per Run 1	0.0038 ppm	0.0005 ppm	0.0016 ppm	0.0003 ppm	-0.0009 ppm	-0.0009 ppm	0.0002 ppm
Concentration per Run 2	0.0038 ppm	0.0007 ppm	0.0016 ppm	0.0004 ppm	-0.0023 ppm	-0.0009 ppm	0.0002 ppm
Concentration per Run 3	0.0038 ppm	0.0008 ppm	0.0017 ppm	0.0007 ppm	-0.0010 ppm	-0.0005 ppm	0.0002 ppm
Recovery Percentage 1	0.769 %	1.349 %	16.398 %	4.691 %	-6.890 %	-7.664 %	3.911 %
Concentration RSD	0.2 %	20.8 %	2.3 %	43.2 %	56.7 %	29.4 %	23.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	94.3732 %	85.9946 %	88.8566 %	94.1397 %	72.0323 %	85.6048 %	0.0003 ppm
Concentration per Run 1	95.5063 %	87.5770 %	89.2962 %	95.7580 %	72.5332 %	87.1693 %	0.0001 ppm
Concentration per Run 2	93.7381 %	87.6420 %	88.1341 %	93.3613 %	71.4478 %	87.1670 %	0.0003 ppm
Concentration per Run 3	93.8752 %	82.7648 %	89.1397 %	93.2996 %	72.1160 %	82.4782 %	0.0005 ppm
Recovery Percentage 1							2.990 %
Concentration RSD	1.0 %	3.3 %	0.7 %	1.5 %	0.8 %	3.2 %	74.5 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: CCV
Analysis started at: 6/27/2025 8:43:38 AM
Comments: <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5056 ppm	0.4661 ppm	0.4789 ppm	0.5009 ppm	0.4609 ppm	0.4724 ppm	0.4785 ppm
Concentration per Run 1	0.5069 ppm	0.4391 ppm	0.4792 ppm	0.5018 ppm	0.4366 ppm	0.4520 ppm	0.4609 ppm
Concentration per Run 2	0.5035 ppm	0.4725 ppm	0.4800 ppm	0.4995 ppm	0.4659 ppm	0.4770 ppm	0.4832 ppm
Concentration per Run 3	0.5064 ppm	0.4869 ppm	0.4775 ppm	0.5013 ppm	0.4800 ppm	0.4883 ppm	0.4913 ppm
Recovery Percentage 1	101.121 %	93.229 %	95.780 %	100.176 %	92.171 %	94.486 %	95.692 %
Concentration RSD	0.4 %	5.3 %	0.3 %	0.2 %	4.8 %	3.9 %	3.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.5014 ppm	0.5153 ppm	0.5078 ppm	0.4947 ppm	0.4797 ppm	5.0444 ppm	0.5218 ppm
Concentration per Run 1	0.5014 ppm	0.5162 ppm	0.5093 ppm	0.4964 ppm	0.4612 ppm	4.8332 ppm	0.5215 ppm
Concentration per Run 2	0.4990 ppm	0.5131 ppm	0.5046 ppm	0.4952 ppm	0.4848 ppm	5.0981 ppm	0.5224 ppm
Concentration per Run 3	0.5038 ppm	0.5167 ppm	0.5096 ppm	0.4924 ppm	0.4932 ppm	5.2018 ppm	0.5216 ppm
Recovery Percentage 1	100.278 %	103.066 %	101.561 %	98.931 %	95.943 %	100.887 %	104.370 %
Concentration RSD	0.5 %	0.4 %	0.6 %	0.4 %	3.5 %	3.8 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4808 ppm	0.4976 ppm	9.3493 ppm	0.4858 ppm	0.4943 ppm	0.4796 ppm	0.4935 ppm
Concentration per Run 1	0.4619 ppm	0.4980 ppm	8.6982 ppm	0.4855 ppm	0.4948 ppm	0.4808 ppm	0.4933 ppm
Concentration per Run 2	0.4857 ppm	0.4961 ppm	9.4720 ppm	0.4857 ppm	0.4948 ppm	0.4806 ppm	0.4942 ppm
Concentration per Run 3	0.4947 ppm	0.4988 ppm	9.8778 ppm	0.4862 ppm	0.4934 ppm	0.4772 ppm	0.4929 ppm
Recovery Percentage 1	96.154 %	99.523 %	93.493 %	97.157 %	98.869 %	95.911 %	98.695 %
Concentration RSD	3.5 %	0.3 %	6.4 %	0.1 %	0.2 %	0.4 %	0.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.2894 ppm	0.4713 ppm	0.4718 ppm	0.5027 ppm	0.5024 ppm	0.5063 ppm	0.5104 ppm
Concentration per Run 1	5.2893 ppm	0.4706 ppm	0.4468 ppm	0.5034 ppm	0.5022 ppm	0.5070 ppm	0.5108 ppm
Concentration per Run 2	5.2931 ppm	0.4708 ppm	0.4772 ppm	0.5003 ppm	0.5038 ppm	0.5043 ppm	0.5106 ppm
Concentration per Run 3	5.2856 ppm	0.4725 ppm	0.4915 ppm	0.5044 ppm	0.5012 ppm	0.5076 ppm	0.5099 ppm
Recovery Percentage 1	100.750 %	94.266 %	94.362 %	100.536 %	100.479 %	101.257 %	102.089 %
Concentration RSD	0.1 %	0.2 %	4.8 %	0.4 %	0.3 %	0.3 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.2867 %	99.0706 %	99.2294 %	109.9099 %	94.3069 %	100.1148 %	0.4839 ppm
Concentration per Run 1	102.9292 %	98.9171 %	99.2159 %	114.6474 %	94.4172 %	100.0166 %	0.4500 ppm
Concentration per Run 2	100.5997 %	99.2624 %	98.6641 %	108.7706 %	94.1668 %	100.2795 %	0.4898 ppm
Concentration per Run 3	100.3312 %	99.0324 %	99.8083 %	106.3117 %	94.3366 %	100.0482 %	0.5121 ppm
Recovery Percentage 1							96.788 %
Concentration RSD	1.4 %	0.2 %	0.6 %	3.9 %	0.1 %	0.1 %	6.5 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: CCB
Analysis started at: 6/27/2025 8:49:55 AM
Comments: <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0008 ppm	-0.0004 ppm	0.0009 ppm	0.0000 ppm	0.0000 ppm	0.0017 ppm
Concentration per Run 1	-0.0002 ppm	-0.0007 ppm	0.0001 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 2	-0.0002 ppm	0.0010 ppm	-0.0012 ppm	0.0009 ppm	0.0000 ppm	0.0000 ppm	-0.0010 ppm
Concentration per Run 3	0.0000 ppm	0.0019 ppm	0.0001 ppm	0.0009 ppm	0.0000 ppm	0.0000 ppm	0.0059 ppm
Recovery Percentage 1	-1.777 %	0.766 %	-7.048 %	3.137 %	0.070 %	0.218 %	1.688 %
Concentration RSD	70.8 %	174.7 %	202.7 %	6.1 %	137.5 %	189.2 %	220.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0002 ppm	-0.0008 ppm	0.0004 ppm
Concentration per Run 1	-0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0005 ppm	-0.0005 ppm	0.0004 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0002 ppm	-0.0031 ppm	0.0008 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0001 ppm	-0.0002 ppm	0.0013 ppm	-0.0001 ppm
Recovery Percentage 1	-0.603 %	-0.363 %	0.326 %	0.956 %	0.345 %	-0.031 %	0.378 %
Concentration RSD	201.3 %	71.5 %	156.6 %	111.7 %	195.0 %	287.8 %	119.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	0.0004 ppm	0.0011 ppm	0.0000 ppm	0.0003 ppm	0.0001 ppm	-0.0005 ppm
Concentration per Run 1	0.0001 ppm	0.0005 ppm	-0.0002 ppm	-0.0001 ppm	0.0006 ppm	0.0000 ppm	-0.0009 ppm
Concentration per Run 2	0.0001 ppm	0.0004 ppm	0.0010 ppm	-0.0001 ppm	-0.0001 ppm	0.0007 ppm	-0.0007 ppm
Concentration per Run 3	0.0001 ppm	0.0003 ppm	0.0024 ppm	0.0001 ppm	0.0003 ppm	-0.0004 ppm	0.0000 ppm
Recovery Percentage 1	0.838 %	0.768 %	0.053 %	-0.054 %	2.657 %	0.205 %	-5.434 %
Concentration RSD	51.0 %	29.0 %	124.8 %	725.4 %	140.2 %	551.7 %	87.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	-0.0002 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0002 ppm	0.0000 ppm
Concentration per Run 1	-0.0005 ppm	0.0002 ppm	0.0000 ppm	0.0001 ppm	0.0006 ppm	0.0004 ppm	0.0000 ppm
Concentration per Run 2	-0.0004 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0009 ppm	0.0003 ppm	0.0001 ppm
Concentration per Run 3	0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm
Recovery Percentage 1	-0.038 %	0.402 %	-0.154 %	0.424 %	2.250 %	2.173 %	-0.152 %
Concentration RSD	242.7 %	77.1 %	205.9 %	188.9 %	119.0 %	85.9 %	830.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.7348 %	100.3578 %	99.3158 %	99.1966 %	99.1039 %	99.7363 %	0.0002 ppm
Concentration per Run 1	101.3451 %	100.6493 %	99.4387 %	99.2796 %	98.9422 %	100.0386 %	-0.0001 ppm
Concentration per Run 2	100.3741 %	99.9405 %	99.2440 %	99.0750 %	99.0278 %	99.3215 %	0.0003 ppm
Concentration per Run 3	100.4852 %	100.4835 %	99.2648 %	99.2351 %	99.3416 %	99.8488 %	0.0002 ppm
Recovery Percentage 1							1.613 %
Concentration RSD	0.5 %	0.4 %	0.1 %	0.1 %	0.2 %	0.4 %	130.0 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: WG2084038-1 WG2084038
 Analysis started at: 6/27/2025 9:00:37 AM
 Comments: <Comment>
 Rack: 1
 Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0013 ppm	-0.0002 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	0.0048 ppm
Concentration per Run 1	-0.0003 ppm	0.0010 ppm	-0.0010 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	0.0041 ppm
Concentration per Run 2	-0.0002 ppm	0.0013 ppm	0.0002 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	0.0018 ppm
Concentration per Run 3	-0.0002 ppm	0.0014 ppm	0.0002 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	0.0084 ppm
Recovery Percentage 1	-3.515 %	1.262 %	-3.225 %	3.246 %	0.176 %	0.110 %	4.759 %
Concentration RSD	31.7 %	16.2 %	424.9 %	1.8 %	55.1 %	131.2 %	69.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0004 ppm	0.0017 ppm	-0.0047 ppm	0.0014 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0004 ppm	0.0013 ppm	-0.0055 ppm	0.0026 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0003 ppm	0.0004 ppm	0.0017 ppm	0.0024 ppm	0.0012 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0005 ppm	0.0022 ppm	-0.0108 ppm	0.0006 ppm
Recovery Percentage 1	-0.216 %	-0.046 %	-0.740 %	4.247 %	3.463 %	-0.187 %	1.443 %
Concentration RSD	166.9 %	741.0 %	305.4 %	15.8 %	24.8 %	142.7 %	71.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	0.0000 ppm	0.0037 ppm	0.0002 ppm	0.0002 ppm	-0.0006 ppm	-0.0006 ppm
Concentration per Run 1	0.0004 ppm	-0.0001 ppm	0.0058 ppm	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0004 ppm
Concentration per Run 2	-0.0001 ppm	0.0000 ppm	0.0035 ppm	0.0002 ppm	-0.0001 ppm	-0.0002 ppm	-0.0017 ppm
Concentration per Run 3	0.0002 ppm	0.0002 ppm	0.0019 ppm	0.0003 ppm	0.0007 ppm	-0.0016 ppm	-0.0004 ppm
Recovery Percentage 1	1.686 %	0.015 %	0.186 %	0.630 %	2.358 %	-1.128 %	-5.579 %
Concentration RSD	140.1 %	1,802.0 %	53.1 %	68.6 %	185.6 %	167.8 %	190.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0122 ppm	-0.0010 ppm	0.0000 ppm	0.0001 ppm	0.0010 ppm	0.0000 ppm	0.0007 ppm
Concentration per Run 1	0.0120 ppm	-0.0005 ppm	0.0000 ppm	0.0002 ppm	0.0009 ppm	0.0000 ppm	0.0006 ppm
Concentration per Run 2	0.0122 ppm	-0.0009 ppm	0.0000 ppm	0.0002 ppm	0.0005 ppm	0.0000 ppm	0.0006 ppm
Concentration per Run 3	0.0124 ppm	-0.0015 ppm	0.0000 ppm	0.0000 ppm	0.0016 ppm	0.0000 ppm	0.0008 ppm
Recovery Percentage 1	2.438 %	-1.956 %	-0.101 %	1.204 %	4.897 %	0.120 %	13.847 %
Concentration RSD	1.3 %	48.2 %	344.7 %	85.4 %	55.8 %	193.6 %	15.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.5159 %	100.5489 %	99.1315 %	98.3800 %	100.8050 %	98.9232 %	0.0001 ppm
Concentration per Run 1	102.0118 %	100.6177 %	98.9265 %	98.4560 %	100.5236 %	99.0209 %	0.0003 ppm
Concentration per Run 2	101.5225 %	100.4251 %	99.8922 %	98.5722 %	101.4028 %	98.7816 %	0.0000 ppm
Concentration per Run 3	101.0134 %	100.6040 %	98.5757 %	98.1119 %	100.4885 %	98.9671 %	-0.0001 ppm
Recovery Percentage 1							0.809 %
Concentration RSD	0.5 %	0.1 %	0.7 %	0.2 %	0.5 %	0.1 %	247.6 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: WG2084038-2 WG2084038

Analysis started at: 6/27/2025 9:07:17 AM

Comments: <Comment>

Rack: 1

Vial: 5

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0565 ppm	2.3668 ppm	0.1289 ppm	1.0391 ppm	2.2404 ppm	0.0554 ppm	11.0091 ppm
Concentration per Run 1	0.0568 ppm	2.3662 ppm	0.1280 ppm	1.0414 ppm	2.2635 ppm	0.0553 ppm	11.0086 ppm
Concentration per Run 2	0.0566 ppm	2.3463 ppm	0.1300 ppm	1.0410 ppm	2.2561 ppm	0.0558 ppm	11.1672 ppm
Concentration per Run 3	0.0562 ppm	2.3879 ppm	0.1286 ppm	1.0350 ppm	2.2015 ppm	0.0551 ppm	10.8514 ppm
Concentration RSD	0.5 %	0.9 %	0.8 %	0.3 %	1.5 %	0.7 %	1.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0515 ppm	0.5438 ppm	0.2186 ppm	0.2762 ppm	1.1346 ppm	11.4817 ppm	10.9633 ppm
Concentration per Run 1	0.0514 ppm	0.5448 ppm	0.2195 ppm	0.2770 ppm	1.1354 ppm	11.4766 ppm	10.9877 ppm
Concentration per Run 2	0.0510 ppm	0.5409 ppm	0.2171 ppm	0.2783 ppm	1.1484 ppm	11.1268 ppm	10.9626 ppm
Concentration per Run 3	0.0519 ppm	0.5456 ppm	0.2193 ppm	0.2732 ppm	1.1199 ppm	11.8417 ppm	10.9396 ppm
Concentration RSD	0.9 %	0.5 %	0.6 %	0.9 %	1.3 %	3.1 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5603 ppm	1.0301 ppm	12.1496 ppm	0.5240 ppm	0.5553 ppm	0.4764 ppm	0.1278 ppm
Concentration per Run 1	0.5598 ppm	1.0301 ppm	12.1245 ppm	0.5217 ppm	0.5536 ppm	0.4731 ppm	0.1266 ppm
Concentration per Run 2	0.5656 ppm	1.0255 ppm	11.7776 ppm	0.5203 ppm	0.5510 ppm	0.4745 ppm	0.1293 ppm
Concentration per Run 3	0.5553 ppm	1.0349 ppm	12.5466 ppm	0.5299 ppm	0.5612 ppm	0.4816 ppm	0.1276 ppm
Concentration RSD	0.9 %	0.5 %	3.2 %	1.0 %	1.0 %	1.0 %	1.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.9730 ppm	1.0122 [SIC 20]	1.0947 ppm	1.0727 ppm	0.1264 ppm	0.5525 ppm	0.5445 ppm
Concentration per Run 1	0.9710 ppm	1.0073 ppm	1.0911 ppm	1.0745 ppm	0.1275 ppm	0.5528 ppm	0.5410 ppm
Concentration per Run 2	0.9696 ppm	1.0059 ppm	1.0950 ppm	1.0705 ppm	0.1255 ppm	0.5509 ppm	0.5385 ppm
Concentration per Run 3	0.9783 ppm	1.0234 ppm	1.0979 ppm	1.0731 ppm	0.1263 ppm	0.5539 ppm	0.5541 ppm
Concentration RSD	0.5 %	1.0 %	0.3 %	0.2 %	0.8 %	0.3 %	1.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.9255 %	96.6506 %	94.2932 %	99.5952 %	89.6557 %	96.4740 %	0.0000 ppm
Concentration per Run 1	99.9236 %	96.4602 %	94.6814 %	99.7390 %	89.8358 %	96.2403 %	0.0000 ppm
Concentration per Run 2	99.3387 %	96.3798 %	93.8175 %	98.9673 %	89.8655 %	96.1658 %	-0.0001 ppm
Concentration per Run 3	100.5143 %	97.1119 %	94.3808 %	100.0793 %	89.2658 %	97.0160 %	0.0000 ppm
Concentration RSD	0.6 %	0.4 %	0.5 %	0.6 %	0.4 %	0.5 %	114.9 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: L2538382-01 WG2084038

Analysis started at: 6/27/2025 9:13:42 AM

Comments: <Comment>

Rack: 1

Vial: 11

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0230 ppm	-0.0007 ppm	0.0141 ppm	0.0375 ppm	0.0000 ppm	12.8876 ppm
Concentration per Run 1	-0.0002 ppm	0.0224 ppm	-0.0004 ppm	0.0142 ppm	0.0375 ppm	0.0000 ppm	12.9320 ppm
Concentration per Run 2	-0.0001 ppm	0.0222 ppm	-0.0011 ppm	0.0140 ppm	0.0374 ppm	0.0000 ppm	12.9000 ppm
Concentration per Run 3	-0.0002 ppm	0.0242 ppm	-0.0005 ppm	0.0141 ppm	0.0376 ppm	0.0001 ppm	12.8307 ppm
Concentration RSD	43.0 %	4.7 %	56.8 %	1.0 %	0.4 %	45.9 %	0.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0002 ppm	-0.0003 ppm	0.0011 ppm	0.0010 ppm	0.0090 ppm	1.1145 ppm	6.0599 ppm
Concentration per Run 1	0.0001 ppm	-0.0004 ppm	0.0012 ppm	0.0011 ppm	0.0097 ppm	1.0953 ppm	6.0676 ppm
Concentration per Run 2	0.0002 ppm	-0.0002 ppm	0.0009 ppm	0.0009 ppm	0.0086 ppm	1.1148 ppm	6.0458 ppm
Concentration per Run 3	0.0002 ppm	-0.0003 ppm	0.0013 ppm	0.0011 ppm	0.0086 ppm	1.1334 ppm	6.0664 ppm
Concentration RSD	17.5 %	36.1 %	19.6 %	12.8 %	7.1 %	1.7 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0904 ppm	0.0018 ppm	8.6063 ppm	0.0007 ppm	-0.0006 ppm	0.0011 ppm	-0.0012 ppm
Concentration per Run 1	0.0905 ppm	0.0022 ppm	8.5005 ppm	0.0008 ppm	-0.0008 ppm	0.0011 ppm	-0.0019 ppm
Concentration per Run 2	0.0904 ppm	0.0017 ppm	8.5636 ppm	0.0007 ppm	-0.0004 ppm	0.0008 ppm	-0.0002 ppm
Concentration per Run 3	0.0902 ppm	0.0016 ppm	8.7547 ppm	0.0005 ppm	-0.0007 ppm	0.0012 ppm	-0.0017 ppm
Concentration RSD	0.2 %	18.1 %	1.5 %	25.2 %	30.2 %	20.7 %	73.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.5504 ppm	0.0007 ppm	0.0707 ppm	0.0002 ppm	0.0000 ppm	0.0003 ppm	0.0024 ppm
Concentration per Run 1	5.5446 ppm	0.0006 ppm	0.0705 ppm	0.0002 ppm	-0.0003 ppm	0.0001 ppm	0.0024 ppm
Concentration per Run 2	5.5465 ppm	0.0009 ppm	0.0705 ppm	0.0001 ppm	0.0006 ppm	0.0005 ppm	0.0024 ppm
Concentration per Run 3	5.5600 ppm	0.0005 ppm	0.0710 ppm	0.0004 ppm	-0.0004 ppm	0.0004 ppm	0.0025 ppm
Concentration RSD	0.2 %	39.0 %	0.4 %	80.1 %	1,950.4 %	51.2 %	3.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.8427 %	97.0814 %	95.7547 %	98.7945 %	93.3316 %	96.7336 %	0.0006 ppm
Concentration per Run 1	101.3601 %	96.6198 %	95.9516 %	99.0472 %	93.4386 %	96.3431 %	0.0007 ppm
Concentration per Run 2	100.6801 %	97.5713 %	95.8028 %	98.9571 %	93.3684 %	97.1738 %	0.0006 ppm
Concentration per Run 3	100.4879 %	97.0531 %	95.5098 %	98.3794 %	93.1879 %	96.6838 %	0.0006 ppm
Concentration RSD	0.5 %	0.5 %	0.2 %	0.4 %	0.1 %	0.4 %	9.3 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: L2538382-02 WG2084038
 Analysis started at: 6/27/2025 9:20:18 AM
 Comments: <Comment>
 Rack: 1
 Vial: 12

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0059 ppm	0.0002 ppm	0.0190 ppm	0.0323 ppm	0.0000 ppm	13.2560 ppm
Concentration per Run 1	-0.0003 ppm	0.0095 ppm	0.0001 ppm	0.0193 ppm	0.0321 ppm	0.0000 ppm	13.4515 ppm
Concentration per Run 2	0.0000 ppm	0.0054 ppm	0.0023 ppm	0.0189 ppm	0.0326 ppm	0.0000 ppm	13.0472 ppm
Concentration per Run 3	-0.0003 ppm	0.0028 ppm	-0.0019 ppm	0.0188 ppm	0.0321 ppm	0.0000 ppm	13.2694 ppm
Concentration RSD	69.7 %	57.4 %	1,271.1 %	1.6 %	0.8 %	24.2 %	1.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0002 ppm	-0.0004 ppm	0.0014 ppm	0.0009 ppm	0.0014 ppm	1.2622 ppm	6.1245 ppm
Concentration per Run 1	0.0001 ppm	-0.0005 ppm	0.0015 ppm	0.0010 ppm	0.0014 ppm	1.2288 ppm	6.1335 ppm
Concentration per Run 2	0.0002 ppm	-0.0003 ppm	0.0011 ppm	0.0009 ppm	0.0012 ppm	1.3145 ppm	6.1124 ppm
Concentration per Run 3	0.0002 ppm	-0.0004 ppm	0.0017 ppm	0.0007 ppm	0.0016 ppm	1.2433 ppm	6.1276 ppm
Concentration RSD	17.6 %	23.8 %	20.3 %	16.0 %	15.9 %	3.6 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0008 ppm	0.0004 ppm	18.0536 ppm	-0.0003 ppm	-0.0008 ppm	-0.0003 ppm	-0.0004 ppm
Concentration per Run 1	0.0007 ppm	0.0004 ppm	17.5798 ppm	-0.0003 ppm	-0.0010 ppm	-0.0001 ppm	-0.0006 ppm
Concentration per Run 2	0.0009 ppm	0.0003 ppm	18.7953 ppm	-0.0003 ppm	-0.0011 ppm	-0.0004 ppm	0.0004 ppm
Concentration per Run 3	0.0009 ppm	0.0005 ppm	17.7856 ppm	-0.0002 ppm	-0.0003 ppm	-0.0005 ppm	-0.0010 ppm
Concentration RSD	10.7 %	20.7 %	3.6 %	9.9 %	53.8 %	70.7 %	174.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	7.9763 ppm	0.0001 ppm	0.0742 ppm	0.0001 ppm	0.0003 ppm	0.0002 ppm	0.0022 ppm
Concentration per Run 1	7.9942 ppm	-0.0001 ppm	0.0738 ppm	0.0001 ppm	-0.0006 ppm	0.0002 ppm	0.0022 ppm
Concentration per Run 2	7.9988 ppm	0.0000 ppm	0.0747 ppm	0.0000 ppm	0.0011 ppm	0.0001 ppm	0.0022 ppm
Concentration per Run 3	7.9360 ppm	0.0003 ppm	0.0741 ppm	0.0002 ppm	0.0004 ppm	0.0002 ppm	0.0021 ppm
Concentration RSD	0.4 %	256.8 %	0.6 %	84.4 %	293.6 %	41.0 %	1.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.7909 %	96.2943 %	94.3330 %	97.5688 %	91.2501 %	95.6568 %	0.0028 ppm
Concentration per Run 1	100.3353 %	95.9811 %	93.6278 %	97.6002 %	90.6902 %	95.1602 %	0.0027 ppm
Concentration per Run 2	99.7341 %	96.3266 %	93.9407 %	97.7050 %	90.9988 %	95.8009 %	0.0028 ppm
Concentration per Run 3	99.3033 %	96.5752 %	95.4305 %	97.4011 %	92.0612 %	96.0095 %	0.0029 ppm
Concentration RSD	0.5 %	0.3 %	1.0 %	0.2 %	0.8 %	0.5 %	4.2 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: L2539680-01 WG2084038
 Analysis started at: 6/27/2025 9:26:54 AM
 Comments: <Comment>
 Rack: 1
 Vial: 17

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0924 ppm	0.0000 ppm	0.1100 ppm	0.0520 ppm	0.0000 ppm	54.5286 ppm
Concentration per Run 1	0.0001 ppm	0.0920 ppm	-0.0016 ppm	0.1095 ppm	0.0516 ppm	0.0000 ppm	54.7156 ppm
Concentration per Run 2	-0.0001 ppm	0.0958 ppm	0.0018 ppm	0.1109 ppm	0.0523 ppm	0.0000 ppm	54.1629 ppm
Concentration per Run 3	-0.0003 ppm	0.0894 ppm	-0.0001 ppm	0.1098 ppm	0.0520 ppm	0.0000 ppm	54.7074 ppm
Concentration RSD	299.0 %	3.4 %	5,391.0 %	0.6 %	0.7 %	65.8 %	0.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	0.0032 ppm	0.0022 ppm	0.0041 ppm	0.0473 ppm	12.9992 ppm	21.6599 ppm
Concentration per Run 1	0.0001 ppm	0.0031 ppm	0.0026 ppm	0.0039 ppm	0.0467 ppm	12.7115 ppm	21.6484 ppm
Concentration per Run 2	0.0001 ppm	0.0032 ppm	0.0021 ppm	0.0043 ppm	0.0485 ppm	13.5286 ppm	21.7786 ppm
Concentration per Run 3	0.0002 ppm	0.0033 ppm	0.0019 ppm	0.0041 ppm	0.0468 ppm	12.7574 ppm	21.5525 ppm
Concentration RSD	29.1 %	3.3 %	15.4 %	5.7 %	2.1 %	3.5 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.3818 ppm	0.0202 ppm	57.6840 ppm	0.0405 ppm	-0.0004 ppm	0.0004 ppm	0.0016 ppm
Concentration per Run 1	0.3827 ppm	0.0198 ppm	55.6838 ppm	0.0404 ppm	-0.0002 ppm	0.0001 ppm	0.0023 ppm
Concentration per Run 2	0.3806 ppm	0.0206 ppm	60.4707 ppm	0.0405 ppm	-0.0004 ppm	0.0001 ppm	0.0016 ppm
Concentration per Run 3	0.3821 ppm	0.0202 ppm	56.8977 ppm	0.0407 ppm	-0.0006 ppm	0.0010 ppm	0.0008 ppm
Concentration RSD	0.3 %	1.8 %	4.3 %	0.4 %	44.3 %	131.7 %	46.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.9645 ppm	0.0001 ppm	0.2721 ppm	0.0022 ppm	-0.0015 ppm	0.0021 ppm	0.0042 ppm
Concentration per Run 1	6.0271 ppm	0.0007 ppm	0.2710 ppm	0.0024 ppm	-0.0016 ppm	0.0021 ppm	0.0041 ppm
Concentration per Run 2	5.9209 ppm	0.0001 ppm	0.2741 ppm	0.0022 ppm	-0.0015 ppm	0.0019 ppm	0.0041 ppm
Concentration per Run 3	5.9455 ppm	-0.0005 ppm	0.2712 ppm	0.0020 ppm	-0.0015 ppm	0.0023 ppm	0.0044 ppm
Concentration RSD	0.9 %	745.3 %	0.6 %	7.5 %	4.4 %	9.2 %	3.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	98.2139 %	89.9513 %	86.5118 %	95.9502 %	80.6710 %	89.4355 %	0.0412 ppm
Concentration per Run 1	98.9909 %	89.6648 %	85.2052 %	96.1635 %	79.5220 %	89.2282 %	0.0406 ppm
Concentration per Run 2	97.8544 %	89.7277 %	87.1465 %	95.7431 %	81.3847 %	89.1976 %	0.0427 ppm
Concentration per Run 3	97.7965 %	90.4612 %	87.1835 %	95.9440 %	81.1064 %	89.8807 %	0.0404 ppm
Concentration RSD	0.7 %	0.5 %	1.3 %	0.2 %	1.2 %	0.4 %	3.0 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: L2538382-06 WG2084038
 Analysis started at: 6/27/2025 9:33:29 AM
 Comments: <Comment>
 Rack: 1
 Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	0.0405 ppm	-0.0003 ppm	0.0156 ppm	0.0401 ppm	0.0000 ppm	14.3021 ppm
Concentration per Run 1	-0.0003 ppm	0.0412 ppm	-0.0001 ppm	0.0155 ppm	0.0398 ppm	0.0000 ppm	14.3873 ppm
Concentration per Run 2	-0.0003 ppm	0.0397 ppm	-0.0010 ppm	0.0155 ppm	0.0403 ppm	0.0001 ppm	14.3286 ppm
Concentration per Run 3	-0.0002 ppm	0.0407 ppm	0.0003 ppm	0.0156 ppm	0.0402 ppm	0.0000 ppm	14.1905 ppm
Concentration RSD	29.3 %	1.9 %	270.2 %	0.5 %	0.6 %	33.5 %	0.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0003 ppm	-0.0003 ppm	0.0039 ppm	0.0016 ppm	0.0338 ppm	1.1532 ppm	5.8352 ppm
Concentration per Run 1	0.0002 ppm	-0.0002 ppm	0.0039 ppm	0.0017 ppm	0.0345 ppm	1.1269 ppm	5.8277 ppm
Concentration per Run 2	0.0002 ppm	-0.0004 ppm	0.0038 ppm	0.0016 ppm	0.0332 ppm	1.1475 ppm	5.8457 ppm
Concentration per Run 3	0.0003 ppm	-0.0003 ppm	0.0039 ppm	0.0014 ppm	0.0337 ppm	1.1852 ppm	5.8323 ppm
Concentration RSD	18.2 %	31.6 %	0.8 %	7.1 %	1.8 %	2.6 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0010 ppm	0.0001 ppm	15.5139 ppm	0.0033 ppm	-0.0008 ppm	-0.0003 ppm	-0.0008 ppm
Concentration per Run 1	0.0010 ppm	0.0001 ppm	15.3200 ppm	0.0031 ppm	-0.0008 ppm	0.0001 ppm	-0.0014 ppm
Concentration per Run 2	0.0010 ppm	0.0001 ppm	15.4639 ppm	0.0035 ppm	-0.0010 ppm	-0.0002 ppm	-0.0014 ppm
Concentration per Run 3	0.0009 ppm	0.0001 ppm	15.7578 ppm	0.0033 ppm	-0.0005 ppm	-0.0008 ppm	0.0005 ppm
Concentration RSD	2.2 %	37.0 %	1.4 %	6.8 %	36.4 %	129.8 %	145.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	9.5869 ppm	0.0000 ppm	0.0874 ppm	0.0013 ppm	0.0004 ppm	0.0005 ppm	0.0156 ppm
Concentration per Run 1	9.6149 ppm	0.0001 ppm	0.0871 ppm	0.0014 ppm	-0.0002 ppm	0.0003 ppm	0.0157 ppm
Concentration per Run 2	9.5860 ppm	0.0004 ppm	0.0878 ppm	0.0012 ppm	0.0005 ppm	0.0006 ppm	0.0155 ppm
Concentration per Run 3	9.5598 ppm	-0.0004 ppm	0.0874 ppm	0.0011 ppm	0.0007 ppm	0.0005 ppm	0.0156 ppm
Concentration RSD	0.3 %	5,879.2 %	0.4 %	12.3 %	132.3 %	33.8 %	0.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.0990 %	96.1808 %	94.9092 %	97.9654 %	91.6214 %	95.0932 %	0.0027 ppm
Concentration per Run 1	102.1788 %	96.0198 %	94.5440 %	98.0789 %	91.2490 %	94.9650 %	0.0029 ppm
Concentration per Run 2	100.4632 %	95.8631 %	95.0235 %	97.5418 %	91.6079 %	94.7489 %	0.0029 ppm
Concentration per Run 3	100.6550 %	96.6594 %	95.1601 %	98.2754 %	92.0074 %	95.5656 %	0.0024 ppm
Concentration RSD	0.9 %	0.4 %	0.3 %	0.4 %	0.4 %	0.4 %	10.0 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: WG2084038-7 WG2084038

Analysis started at: 6/27/2025 9:40:05 AM

Comments: <Comment>

Rack: 1

Vial: 7

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0528 ppm	2.2546 ppm	0.1209 ppm	1.0204 ppm	2.1258 ppm	0.0521 ppm	24.1455 ppm
Concentration per Run 1	0.0528 ppm	2.2425 ppm	0.1214 ppm	1.0198 ppm	2.1052 ppm	0.0518 ppm	24.0106 ppm
Concentration per Run 2	0.0528 ppm	2.2704 ppm	0.1217 ppm	1.0194 ppm	2.1304 ppm	0.0526 ppm	24.3836 ppm
Concentration per Run 3	0.0528 ppm	2.2509 ppm	0.1194 ppm	1.0219 ppm	2.1417 ppm	0.0519 ppm	24.0423 ppm
Concentration RSD	0.0 %	0.6 %	1.0 %	0.1 %	0.9 %	0.9 %	0.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0479 ppm	0.5031 ppm	0.2042 ppm	0.2598 ppm	1.0806 ppm	11.8304 ppm	15.7726 ppm
Concentration per Run 1	0.0481 ppm	0.5045 ppm	0.2041 ppm	0.2591 ppm	1.0726 ppm	11.7095 ppm	15.7398 ppm
Concentration per Run 2	0.0480 ppm	0.5028 ppm	0.2036 ppm	0.2600 ppm	1.0910 ppm	11.9166 ppm	15.7727 ppm
Concentration per Run 3	0.0476 ppm	0.5020 ppm	0.2049 ppm	0.2602 ppm	1.0781 ppm	11.8653 ppm	15.8053 ppm
Concentration RSD	0.5 %	0.3 %	0.3 %	0.2 %	0.9 %	0.9 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5224 ppm	0.9579 ppm	26.3165 ppm	0.4863 ppm	0.5093 ppm	0.4456 ppm	0.1213 ppm
Concentration per Run 1	0.5203 ppm	0.9582 ppm	26.1061 ppm	0.4879 ppm	0.5108 ppm	0.4445 ppm	0.1225 ppm
Concentration per Run 2	0.5266 ppm	0.9574 ppm	26.5116 ppm	0.4817 ppm	0.5051 ppm	0.4434 ppm	0.1211 ppm
Concentration per Run 3	0.5204 ppm	0.9580 ppm	26.3316 ppm	0.4894 ppm	0.5118 ppm	0.4490 ppm	0.1203 ppm
Concentration RSD	0.7 %	0.0 %	0.8 %	0.8 %	0.7 %	0.7 %	0.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	10.6107 ppm	0.9346 ppm	1.1190 ppm	1.0047 ppm	0.1153 ppm	0.5090 ppm	0.5110 ppm
Concentration per Run 1	10.6473 ppm	0.9377 ppm	1.1133 ppm	1.0027 ppm	0.1144 ppm	0.5088 ppm	0.5119 ppm
Concentration per Run 2	10.5142 ppm	0.9268 ppm	1.1260 ppm	1.0041 ppm	0.1147 ppm	0.5076 ppm	0.5098 ppm
Concentration per Run 3	10.6706 ppm	0.9392 ppm	1.1176 ppm	1.0073 ppm	0.1168 ppm	0.5107 ppm	0.5111 ppm
Concentration RSD	0.8 %	0.7 %	0.6 %	0.2 %	1.1 %	0.3 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.6079 %	94.9453 %	93.2407 %	97.9635 %	87.2709 %	93.6685 %	0.0028 ppm
Concentration per Run 1	100.9117 %	95.1952 %	93.9272 %	98.9116 %	87.2049 %	93.9294 %	0.0031 ppm
Concentration per Run 2	98.8906 %	95.0279 %	93.5603 %	97.1984 %	88.0562 %	93.6674 %	0.0026 ppm
Concentration per Run 3	99.0215 %	94.6128 %	92.2347 %	97.7806 %	86.5516 %	93.4086 %	0.0028 ppm
Concentration RSD	1.1 %	0.3 %	1.0 %	0.9 %	0.9 %	0.3 %	8.8 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: xWG2084038-8 WG2084038
 Analysis started at: 6/27/2025 9:46:30 AM
 Comments: <Comment>
 Rack: 1
 Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0562 ppm	2.4963 ppm	0.1229 ppm	1.0164 ppm	2.3383 ppm	0.0566 ppm	24.3509 ppm
Concentration per Run 1	0.0563 ppm	2.5000 ppm	0.1240 ppm	1.0150 ppm	2.3299 ppm	0.0570 ppm	24.6468 ppm
Concentration per Run 2	0.0562 ppm	2.5142 ppm	0.1202 ppm	1.0197 ppm	2.3596 ppm	0.0565 ppm	24.2078 ppm
Concentration per Run 3	0.0561 ppm	2.4748 ppm	0.1246 ppm	1.0145 ppm	2.3254 ppm	0.0563 ppm	24.1981 ppm
Concentration RSD	0.1 %	0.8 %	1.9 %	0.3 %	0.8 %	0.7 %	1.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0510 ppm	0.5364 ppm	0.2202 ppm	0.2771 ppm	1.1796 ppm	12.3388 ppm	15.8231 ppm
Concentration per Run 1	0.0510 ppm	0.5356 ppm	0.2193 ppm	0.2767 ppm	1.1909 ppm	12.0352 ppm	15.7920 ppm
Concentration per Run 2	0.0512 ppm	0.5377 ppm	0.2195 ppm	0.2791 ppm	1.1772 ppm	12.6842 ppm	15.8494 ppm
Concentration per Run 3	0.0509 ppm	0.5359 ppm	0.2217 ppm	0.2755 ppm	1.1708 ppm	12.2970 ppm	15.8278 ppm
Concentration RSD	0.3 %	0.2 %	0.6 %	0.7 %	0.9 %	2.6 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5661 ppm	0.9587 ppm	27.7408 ppm	0.5263 ppm	0.5143 ppm	0.4850 ppm	0.1220 ppm
Concentration per Run 1	0.5719 ppm	0.9556 ppm	27.1289 ppm	0.5275 ppm	0.5149 ppm	0.4833 ppm	0.1212 ppm
Concentration per Run 2	0.5637 ppm	0.9613 ppm	28.3527 ppm	0.5240 ppm	0.5136 ppm	0.4855 ppm	0.1238 ppm
Concentration per Run 3	0.5627 ppm	0.9591 ppm	0.0000 ppm	0.5273 ppm	0.5144 ppm	0.4862 ppm	0.1211 ppm
Concentration RSD	0.9 %	0.3 %	3.1 %	0.4 %	0.1 %	0.3 %	1.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	10.8336 ppm	0.9482 ppm	1.1395 ppm	1.0072 ppm	0.1165 ppm	0.5520 ppm	0.5476 ppm
Concentration per Run 1	10.8571 ppm	0.9484 ppm	1.1427 ppm	1.0049 ppm	0.1166 ppm	0.5515 ppm	0.5486 ppm
Concentration per Run 2	10.8069 ppm	0.9471 ppm	1.1436 ppm	1.0061 ppm	0.1172 ppm	0.5498 ppm	0.5449 ppm
Concentration per Run 3	10.8369 ppm	0.9492 ppm	1.1321 ppm	1.0105 ppm	0.1156 ppm	0.5546 ppm	0.5494 ppm
Concentration RSD	0.2 %	0.1 %	0.6 %	0.3 %	0.7 %	0.4 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	98.8629 %	94.6346 %	92.8657 %	97.2044 %	86.4940 %	93.9710 %	0.0028 ppm
Concentration per Run 1	99.2031 %	94.7228 %	92.7660 %	96.8031 %	86.3516 %	93.9939 %	0.0027 ppm
Concentration per Run 2	98.7707 %	94.3711 %	93.0544 %	97.3006 %	86.5972 %	93.6535 %	0.0027 ppm
Concentration per Run 3	98.6150 %	94.8100 %	92.7768 %	97.5094 %	86.5332 %	94.2656 %	0.0029 ppm
Concentration RSD	0.3 %	0.2 %	0.2 %	0.4 %	0.1 %	0.3 %	4.1 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: WG2084038-9 WG2084038
 Analysis started at: 6/27/2025 9:52:55 AM
 Comments: <Comment>
 Rack: 1
 Vial: 9

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0553 ppm	2.3664 ppm	0.1185 ppm	1.0076 ppm	2.2665 ppm	0.0552 ppm	24.0130 ppm
Concentration per Run 1	0.0554 ppm	2.3729 ppm	0.1184 ppm	1.0062 ppm	2.2625 ppm	0.0553 ppm	24.1211 ppm
Concentration per Run 2	0.0553 ppm	2.3645 ppm	0.1198 ppm	1.0043 ppm	2.2776 ppm	0.0552 ppm	24.0251 ppm
Concentration per Run 3	0.0552 ppm	2.3618 ppm	0.1173 ppm	1.0123 ppm	2.2594 ppm	0.0551 ppm	23.8930 ppm
Concentration RSD	0.2 %	0.2 %	1.1 %	0.4 %	0.4 %	0.2 %	0.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0502 ppm	0.5270 ppm	0.2117 ppm	0.2717 ppm	1.1507 ppm	11.7490 ppm	15.5743 ppm
Concentration per Run 1	0.0501 ppm	0.5267 ppm	0.2129 ppm	0.2716 ppm	1.1506 ppm	11.6997 ppm	15.5804 ppm
Concentration per Run 2	0.0503 ppm	0.5255 ppm	0.2123 ppm	0.2701 ppm	1.1515 ppm	11.7981 ppm	15.5310 ppm
Concentration per Run 3	0.0503 ppm	0.5287 ppm	0.2100 ppm	0.2735 ppm	1.1501 ppm	11.7492 ppm	15.6116 ppm
Concentration RSD	0.2 %	0.3 %	0.7 %	0.6 %	0.1 %	0.4 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5523 ppm	0.9491 ppm	26.1483 ppm	0.5096 ppm	0.5000 ppm	0.4686 ppm	0.1193 ppm
Concentration per Run 1	0.5538 ppm	0.9463 ppm	26.1683 ppm	0.5087 ppm	0.5004 ppm	0.4646 ppm	0.1206 ppm
Concentration per Run 2	0.5524 ppm	0.9466 ppm	26.1549 ppm	0.5111 ppm	0.5006 ppm	0.4704 ppm	0.1185 ppm
Concentration per Run 3	0.5507 ppm	0.9545 ppm	26.1217 ppm	0.5091 ppm	0.4989 ppm	0.4707 ppm	0.1189 ppm
Concentration RSD	0.3 %	0.5 %	0.1 %	0.3 %	0.2 %	0.7 %	0.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	10.4012 ppm	0.9363 ppm	1.1168 ppm	0.9921 ppm	0.1129 ppm	0.5333 ppm	0.5366 ppm
Concentration per Run 1	10.3946 ppm	0.9350 ppm	1.1152 ppm	0.9941 ppm	0.1136 ppm	0.5344 ppm	0.5380 ppm
Concentration per Run 2	10.4154 ppm	0.9388 ppm	1.1179 ppm	0.9903 ppm	0.1127 ppm	0.5334 ppm	0.5384 ppm
Concentration per Run 3	10.3935 ppm	0.9350 ppm	1.1173 ppm	0.9918 ppm	0.1125 ppm	0.5321 ppm	0.5335 ppm
Concentration RSD	0.1 %	0.2 %	0.1 %	0.2 %	0.5 %	0.2 %	0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	98.7440 %	94.9258 %	93.5577 %	96.8767 %	86.8182 %	93.4307 %	0.0027 ppm
Concentration per Run 1	99.2178 %	95.0132 %	93.2274 %	96.9240 %	86.7745 %	93.4007 %	0.0025 ppm
Concentration per Run 2	98.5675 %	95.3195 %	93.7044 %	96.8490 %	86.7850 %	93.8677 %	0.0030 ppm
Concentration per Run 3	98.4466 %	94.4445 %	93.7414 %	96.8572 %	86.8952 %	93.0237 %	0.0025 ppm
Concentration RSD	0.4 %	0.5 %	0.3 %	0.0 %	0.1 %	0.5 %	11.0 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: WG2084038-10D5 WG2084038
 Analysis started at: 6/27/2025 9:59:20 AM
 Comments: <Comment>
 Rack: 1
 Vial: 10

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0091 ppm	0.0004 ppm	0.0050 ppm	0.0080 ppm	0.0000 ppm	2.8555 ppm
Concentration per Run 1	0.0000 ppm	0.0094 ppm	0.0008 ppm	0.0052 ppm	0.0080 ppm	0.0000 ppm	2.9118 ppm
Concentration per Run 2	-0.0003 ppm	0.0087 ppm	-0.0007 ppm	0.0049 ppm	0.0081 ppm	0.0000 ppm	2.8411 ppm
Concentration per Run 3	-0.0003 ppm	0.0090 ppm	0.0012 ppm	0.0050 ppm	0.0079 ppm	0.0000 ppm	2.8136 ppm
Concentration RSD	88.1 %	4.1 %	224.6 %	3.4 %	0.9 %	140.8 %	1.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0007 ppm	0.0003 ppm	0.0086 ppm	0.2290 ppm	1.1884 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0003 ppm	0.0002 ppm	0.0087 ppm	0.2213 ppm	1.1831 ppm
Concentration per Run 2	0.0001 ppm	0.0000 ppm	0.0007 ppm	0.0004 ppm	0.0089 ppm	0.2268 ppm	1.1885 ppm
Concentration per Run 3	0.0000 ppm	0.0000 ppm	0.0011 ppm	0.0002 ppm	0.0081 ppm	0.2390 ppm	1.1937 ppm
Concentration RSD	110.2 %	193.8 %	58.0 %	36.8 %	4.9 %	4.0 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0004 ppm	0.0026 ppm	2.9960 ppm	0.0006 ppm	0.0001 ppm	0.0030 ppm	-0.0004 ppm
Concentration per Run 1	0.0003 ppm	0.0030 ppm	2.9146 ppm	0.0006 ppm	0.0003 ppm	0.0035 ppm	0.0001 ppm
Concentration per Run 2	0.0005 ppm	0.0026 ppm	3.0206 ppm	0.0007 ppm	0.0006 ppm	0.0029 ppm	-0.0005 ppm
Concentration per Run 3	0.0004 ppm	0.0024 ppm	3.0527 ppm	0.0006 ppm	-0.0004 ppm	0.0027 ppm	-0.0009 ppm
Concentration RSD	21.6 %	11.3 %	2.4 %	7.0 %	358.5 %	14.7 %	117.7 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.8568 ppm	0.0025 ppm	0.0175 ppm	0.0004 ppm	0.0000 ppm	0.0004 ppm	0.0033 ppm
Concentration per Run 1	1.8608 ppm	0.0032 ppm	0.0175 ppm	0.0003 ppm	0.0003 ppm	0.0003 ppm	0.0032 ppm
Concentration per Run 2	1.8591 ppm	0.0021 ppm	0.0175 ppm	0.0003 ppm	0.0000 ppm	0.0005 ppm	0.0033 ppm
Concentration per Run 3	1.8503 ppm	0.0023 ppm	0.0175 ppm	0.0004 ppm	-0.0001 ppm	0.0003 ppm	0.0035 ppm
Concentration RSD	0.3 %	22.3 %	0.2 %	16.7 %	575.6 %	25.8 %	4.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.3765 %	99.1865 %	97.3553 %	98.8006 %	95.9000 %	98.2067 %	0.0010 ppm
Concentration per Run 1	100.1766 %	99.6959 %	97.5739 %	98.0497 %	95.9410 %	98.7658 %	0.0008 ppm
Concentration per Run 2	100.4548 %	98.7511 %	98.1459 %	98.8678 %	96.0386 %	97.7452 %	0.0011 ppm
Concentration per Run 3	100.4980 %	99.1126 %	96.3461 %	99.4843 %	95.7205 %	98.1092 %	0.0010 ppm
Concentration RSD	0.2 %	0.5 %	0.9 %	0.7 %	0.2 %	0.5 %	16.5 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: CCV
Analysis started at: 6/27/2025 10:05:57 AM
Comments: <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5030 ppm	0.5096 ppm	0.4780 ppm	0.5039 ppm	0.5032 ppm	0.5101 ppm	0.5112 ppm
Concentration per Run 1	0.5036 ppm	0.5016 ppm	0.4787 ppm	0.5024 ppm	0.4977 ppm	0.5059 ppm	0.5060 ppm
Concentration per Run 2	0.5022 ppm	0.5134 ppm	0.4770 ppm	0.5064 ppm	0.5073 ppm	0.5085 ppm	0.5066 ppm
Concentration per Run 3	0.5033 ppm	0.5137 ppm	0.4784 ppm	0.5028 ppm	0.5047 ppm	0.5159 ppm	0.5208 ppm
Recovery Percentage 1	100.604 %	101.918 %	95.604 %	100.771 %	100.647 %	102.026 %	102.231 %
Concentration RSD	0.1 %	1.3 %	0.2 %	0.4 %	1.0 %	1.0 %	1.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4954 ppm	0.5148 ppm	0.5032 ppm	0.5019 ppm	0.5188 ppm	5.1058 ppm	0.5200 ppm
Concentration per Run 1	0.4929 ppm	0.5128 ppm	0.5026 ppm	0.5029 ppm	0.5129 ppm	4.9544 ppm	0.5209 ppm
Concentration per Run 2	0.5013 ppm	0.5192 ppm	0.4984 ppm	0.5049 ppm	0.5164 ppm	5.3104 ppm	0.5200 ppm
Concentration per Run 3	0.4921 ppm	0.5122 ppm	0.5088 ppm	0.4980 ppm	0.5272 ppm	5.0528 ppm	0.5191 ppm
Recovery Percentage 1	99.082 %	102.952 %	100.648 %	100.389 %	103.767 %	102.117 %	103.998 %
Concentration RSD	1.0 %	0.8 %	1.0 %	0.7 %	1.4 %	3.6 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5175 ppm	0.4993 ppm	10.1727 ppm	0.4899 ppm	0.4960 ppm	0.4872 ppm	0.4951 ppm
Concentration per Run 1	0.5147 ppm	0.4971 ppm	9.8712 ppm	0.4898 ppm	0.4966 ppm	0.4870 ppm	0.4930 ppm
Concentration per Run 2	0.5137 ppm	0.5028 ppm	10.5583 ppm	0.4895 ppm	0.4947 ppm	0.4844 ppm	0.4959 ppm
Concentration per Run 3	0.5240 ppm	0.4979 ppm	10.0886 ppm	0.4904 ppm	0.4965 ppm	0.4901 ppm	0.4966 ppm
Recovery Percentage 1	103.496 %	99.855 %	101.727 %	97.973 %	99.191 %	97.433 %	99.029 %
Concentration RSD	1.1 %	0.6 %	3.5 %	0.1 %	0.2 %	0.6 %	0.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.3632 ppm	0.4727 ppm	0.5153 ppm	0.5035 ppm	0.5049 ppm	0.5060 ppm	0.5055 ppm
Concentration per Run 1	5.3727 ppm	0.4715 ppm	0.5097 ppm	0.5025 ppm	0.5057 ppm	0.5057 ppm	0.5045 ppm
Concentration per Run 2	5.3509 ppm	0.4730 ppm	0.5187 ppm	0.5022 ppm	0.5029 ppm	0.5040 ppm	0.5067 ppm
Concentration per Run 3	5.3661 ppm	0.4736 ppm	0.5174 ppm	0.5057 ppm	0.5062 ppm	0.5084 ppm	0.5053 ppm
Recovery Percentage 1	102.157 %	94.540 %	103.058 %	100.693 %	100.984 %	101.205 %	101.097 %
Concentration RSD	0.2 %	0.2 %	0.9 %	0.4 %	0.4 %	0.4 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.0642 %	97.3820 %	96.6792 %	100.6906 %	90.8229 %	97.3973 %	0.5318 ppm
Concentration per Run 1	101.1432 %	97.4392 %	96.4276 %	101.6382 %	90.6755 %	97.6050 %	0.5158 ppm
Concentration per Run 2	99.8893 %	97.0188 %	97.0900 %	100.6517 %	91.1696 %	96.9839 %	0.5539 ppm
Concentration per Run 3	99.1602 %	97.6881 %	96.5201 %	99.7819 %	90.6236 %	97.6031 %	0.5258 ppm
Recovery Percentage 1							106.362 %
Concentration RSD	1.0 %	0.3 %	0.4 %	0.9 %	0.3 %	0.4 %	3.7 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: CCB
Analysis started at: 6/27/2025 10:12:17 AM
Comments: <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	-0.0005 ppm	-0.0001 ppm	0.0019 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 1	-0.0001 ppm	0.0002 ppm	0.0009 ppm	0.0019 ppm	0.0000 ppm	0.0000 ppm	-0.0036 ppm
Concentration per Run 2	-0.0001 ppm	-0.0013 ppm	-0.0014 ppm	0.0020 ppm	0.0000 ppm	0.0000 ppm	0.0027 ppm
Concentration per Run 3	-0.0004 ppm	-0.0005 ppm	0.0002 ppm	0.0016 ppm	0.0000 ppm	0.0000 ppm	0.0009 ppm
Recovery Percentage 1	-2.848 %	-0.527 %	-2.312 %	6.238 %	-0.192 %	0.145 %	-0.006 %
Concentration RSD	92.1 %	134.0 %	1,030.2 %	10.8 %	54.0 %	179.8 %	51,225.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0002 ppm	0.0007 ppm	-0.0010 ppm	0.0013 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0007 ppm	0.0003 ppm	0.0020 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	-0.0002 ppm	0.0001 ppm	0.0006 ppm	-0.0009 ppm	0.0010 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0007 ppm	-0.0023 ppm	0.0009 ppm
Recovery Percentage 1	0.519 %	0.201 %	-1.185 %	1.564 %	1.367 %	-0.040 %	1.291 %
Concentration RSD	86.7 %	197.6 %	83.4 %	44.3 %	5.5 %	131.2 %	50.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	0.0009 ppm	-0.0006 ppm	-0.0001 ppm	0.0001 ppm	0.0008 ppm	0.0004 ppm
Concentration per Run 1	0.0001 ppm	0.0010 ppm	-0.0013 ppm	-0.0003 ppm	0.0005 ppm	0.0014 ppm	0.0003 ppm
Concentration per Run 2	-0.0001 ppm	0.0009 ppm	-0.0010 ppm	0.0000 ppm	-0.0005 ppm	0.0007 ppm	0.0008 ppm
Concentration per Run 3	0.0002 ppm	0.0009 ppm	0.0006 ppm	0.0000 ppm	0.0002 ppm	0.0004 ppm	0.0002 ppm
Recovery Percentage 1	0.568 %	1.833 %	-0.029 %	-0.267 %	0.789 %	1.609 %	4.152 %
Concentration RSD	254.8 %	4.8 %	173.8 %	264.5 %	624.8 %	62.4 %	70.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0002 ppm	0.0004 ppm	0.0000 ppm	0.0001 ppm	0.0008 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 1	0.0001 ppm	0.0003 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 2	0.0005 ppm	0.0008 ppm	0.0000 ppm	0.0002 ppm	0.0006 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0016 ppm	0.0000 ppm	0.0000 ppm
Recovery Percentage 1	0.050 %	0.817 %	-0.018 %	1.305 %	3.805 %	0.466 %	-0.961 %
Concentration RSD	85.6 %	93.6 %	2,175.2 %	27.4 %	100.6 %	21.9 %	131.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.3297 %	99.3338 %	97.8882 %	99.1649 %	96.9575 %	98.0667 %	0.0001 ppm
Concentration per Run 1	102.3983 %	99.8615 %	98.5742 %	99.8554 %	97.4815 %	98.4221 %	-0.0001 ppm
Concentration per Run 2	100.9059 %	99.8722 %	97.6595 %	98.8853 %	96.7708 %	98.5136 %	0.0004 ppm
Concentration per Run 3	100.6849 %	98.2678 %	97.4308 %	98.7538 %	96.6202 %	97.2644 %	0.0002 ppm
Recovery Percentage 1							1.395 %
Concentration RSD	0.9 %	0.9 %	0.6 %	0.6 %	0.5 %	0.7 %	170.7 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: WG2084038-8 WG2084038

Analysis started at: 6/27/2025 10:29:32 AM

Comments: <Comment>

Rack: 1

Vial: 8

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0569 ppm	2.4147 ppm	0.1194 ppm	1.0226 ppm	2.2616 ppm	0.0556 ppm	24.2964 ppm
Concentration per Run 1	0.0571 ppm	2.4507 ppm	0.1182 ppm	1.0310 ppm	2.3000 ppm	0.0554 ppm	24.0869 ppm
Concentration per Run 2	0.0567 ppm	2.4032 ppm	0.1197 ppm	1.0217 ppm	2.2454 ppm	0.0558 ppm	24.5582 ppm
Concentration per Run 3	0.0570 ppm	2.3902 ppm	0.1203 ppm	1.0153 ppm	2.2393 ppm	0.0557 ppm	24.2440 ppm
Concentration RSD	0.4 %	1.3 %	0.9 %	0.8 %	1.5 %	0.3 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0514 ppm	0.5421 ppm	0.2208 ppm	0.2756 ppm	1.1572 ppm	11.9803 ppm	15.7935 ppm
Concentration per Run 1	0.0520 ppm	0.5470 ppm	0.2200 ppm	0.2788 ppm	1.1542 ppm	12.3322 ppm	15.8752 ppm
Concentration per Run 2	0.0510 ppm	0.5405 ppm	0.2211 ppm	0.2745 ppm	1.1610 ppm	11.8222 ppm	15.7615 ppm
Concentration per Run 3	0.0511 ppm	0.5389 ppm	0.2214 ppm	0.2736 ppm	1.1565 ppm	11.7865 ppm	15.7439 ppm
Concentration RSD	1.0 %	0.8 %	0.3 %	1.0 %	0.3 %	2.5 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5592 ppm	0.9598 ppm	26.3416 ppm	0.5176 ppm	0.5072 ppm	0.4769 ppm	0.1221 ppm
Concentration per Run 1	0.5575 ppm	0.9655 ppm	27.3275 ppm	0.5185 ppm	0.5072 ppm	0.4733 ppm	0.1219 ppm
Concentration per Run 2	0.5627 ppm	0.9579 ppm	25.8647 ppm	0.5174 ppm	0.5072 ppm	0.4793 ppm	0.1231 ppm
Concentration per Run 3	0.5574 ppm	0.9562 ppm	25.8327 ppm	0.5170 ppm	0.5072 ppm	0.4781 ppm	0.1213 ppm
Concentration RSD	0.5 %	0.5 %	3.2 %	0.1 %	0.0 %	0.7 %	0.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	10.6819 ppm	0.9324 ppm	1.1239 ppm	1.0101 ppm	0.1153 ppm	0.5457 ppm	0.5541 ppm
Concentration per Run 1	10.6801 ppm	0.9338 ppm	1.1327 ppm	1.0072 ppm	0.1141 ppm	0.5441 ppm	0.5553 ppm
Concentration per Run 2	10.6954 ppm	0.9322 ppm	1.1198 ppm	1.0124 ppm	0.1162 ppm	0.5462 ppm	0.5544 ppm
Concentration per Run 3	10.6702 ppm	0.9312 ppm	1.1192 ppm	1.0108 ppm	0.1155 ppm	0.5468 ppm	0.5527 ppm
Concentration RSD	0.1 %	0.1 %	0.7 %	0.3 %	0.9 %	0.3 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.7883 %	95.9196 %	94.6581 %	99.4354 %	89.0164 %	95.1976 %	0.0027 ppm
Concentration per Run 1	100.5115 %	95.3955 %	94.9422 %	99.6698 %	89.3061 %	94.6677 %	0.0029 ppm
Concentration per Run 2	99.1271 %	95.9857 %	94.2732 %	99.0360 %	88.8092 %	95.2656 %	0.0025 ppm
Concentration per Run 3	99.7263 %	96.3775 %	94.7590 %	99.6004 %	88.9340 %	95.6594 %	0.0027 ppm
Concentration RSD	0.7 %	0.5 %	0.4 %	0.3 %	0.3 %	0.5 %	6.9 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: L2538382-04 WG2084038

Analysis started at: 6/27/2025 10:35:58 AM

Comments: <Comment>

Rack: 1

Vial: 14

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0050 ppm	0.0005 ppm	0.0181 ppm	0.0231 ppm	0.0000 ppm	32.5098 ppm
Concentration per Run 1	-0.0001 ppm	0.0073 ppm	0.0004 ppm	0.0181 ppm	0.0229 ppm	0.0000 ppm	32.7549 ppm
Concentration per Run 2	0.0000 ppm	0.0030 ppm	0.0003 ppm	0.0178 ppm	0.0232 ppm	0.0000 ppm	32.5439 ppm
Concentration per Run 3	-0.0003 ppm	0.0048 ppm	0.0008 ppm	0.0184 ppm	0.0232 ppm	0.0000 ppm	32.2306 ppm
Concentration RSD	103.8 %	43.4 %	55.4 %	1.6 %	0.8 %	20.5 %	0.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0013 ppm	0.0015 ppm	1.1886 ppm	7.4522 ppm
Concentration per Run 1	0.0001 ppm	-0.0002 ppm	0.0002 ppm	0.0013 ppm	0.0014 ppm	1.1482 ppm	7.4551 ppm
Concentration per Run 2	0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0012 ppm	0.0015 ppm	1.1969 ppm	7.4423 ppm
Concentration per Run 3	0.0001 ppm	-0.0002 ppm	0.0002 ppm	0.0013 ppm	0.0017 ppm	1.2208 ppm	7.4593 ppm
Concentration RSD	36.3 %	123.5 %	205.4 %	5.4 %	8.9 %	3.1 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	0.0021 ppm	2.3611 ppm	-0.0003 ppm	-0.0001 ppm	0.0011 ppm	0.0003 ppm
Concentration per Run 1	0.0002 ppm	0.0022 ppm	2.2963 ppm	-0.0001 ppm	0.0005 ppm	0.0016 ppm	-0.0005 ppm
Concentration per Run 2	0.0001 ppm	0.0021 ppm	2.3846 ppm	-0.0004 ppm	-0.0003 ppm	0.0011 ppm	0.0003 ppm
Concentration per Run 3	0.0002 ppm	0.0019 ppm	2.4024 ppm	-0.0004 ppm	-0.0005 ppm	0.0007 ppm	0.0011 ppm
Concentration RSD	29.6 %	8.0 %	2.4 %	51.1 %	746.7 %	39.9 %	283.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	2.9708 ppm	0.0005 ppm	0.1395 ppm	0.0002 ppm	-0.0007 ppm	0.0003 ppm	0.0005 ppm
Concentration per Run 1	2.9646 ppm	0.0013 ppm	0.1386 ppm	0.0000 ppm	-0.0005 ppm	0.0002 ppm	0.0005 ppm
Concentration per Run 2	2.9883 ppm	-0.0002 ppm	0.1402 ppm	0.0002 ppm	-0.0014 ppm	0.0003 ppm	0.0006 ppm
Concentration per Run 3	2.9595 ppm	0.0004 ppm	0.1397 ppm	0.0005 ppm	-0.0003 ppm	0.0005 ppm	0.0004 ppm
Concentration RSD	0.5 %	145.2 %	0.6 %	94.1 %	80.9 %	50.6 %	15.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.4198 %	97.1199 %	94.4840 %	97.1446 %	90.1198 %	94.3408 %	0.0002 ppm
Concentration per Run 1	102.2668 %	97.2335 %	94.8145 %	97.2682 %	90.4227 %	94.3504 %	0.0003 ppm
Concentration per Run 2	101.1621 %	97.0892 %	93.6830 %	96.9520 %	89.3386 %	94.2953 %	0.0001 ppm
Concentration per Run 3	100.8306 %	97.0369 %	94.9545 %	97.2136 %	90.5981 %	94.3767 %	0.0003 ppm
Concentration RSD	0.7 %	0.1 %	0.7 %	0.2 %	0.8 %	0.0 %	52.4 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: L2538382-03 WG2084038

Analysis started at: 6/27/2025 10:42:31 AM

Comments: <Comment>

Rack: 1

Vial: 13

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0040 ppm	-0.0006 ppm	0.0215 ppm	0.0500 ppm	0.0000 ppm	16.5303 ppm
Concentration per Run 1	0.0000 ppm	0.0025 ppm	-0.0013 ppm	0.0217 ppm	0.0500 ppm	0.0000 ppm	16.8677 ppm
Concentration per Run 2	-0.0001 ppm	0.0061 ppm	0.0006 ppm	0.0216 ppm	0.0502 ppm	0.0000 ppm	16.3102 ppm
Concentration per Run 3	-0.0002 ppm	0.0035 ppm	-0.0010 ppm	0.0212 ppm	0.0497 ppm	0.0000 ppm	16.4130 ppm
Concentration RSD	74.5 %	45.6 %	173.5 %	1.2 %	0.5 %	68.0 %	1.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	-0.0004 ppm	0.0013 ppm	0.0008 ppm	0.0022 ppm	1.3511 ppm	7.5603 ppm
Concentration per Run 1	0.0002 ppm	-0.0004 ppm	0.0015 ppm	0.0008 ppm	0.0022 ppm	1.2983 ppm	7.5352 ppm
Concentration per Run 2	0.0001 ppm	-0.0003 ppm	0.0011 ppm	0.0011 ppm	0.0020 ppm	1.3694 ppm	7.5741 ppm
Concentration per Run 3	0.0001 ppm	-0.0003 ppm	0.0012 ppm	0.0006 ppm	0.0024 ppm	1.3855 ppm	7.5714 ppm
Concentration RSD	18.2 %	13.8 %	15.4 %	29.2 %	10.0 %	3.4 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0006 ppm	0.0005 ppm	20.7154 ppm	-0.0003 ppm	-0.0008 ppm	0.0008 ppm	-0.0006 ppm
Concentration per Run 1	0.0007 ppm	0.0006 ppm	19.9022 ppm	-0.0004 ppm	-0.0010 ppm	0.0008 ppm	-0.0002 ppm
Concentration per Run 2	0.0005 ppm	0.0005 ppm	21.1944 ppm	-0.0004 ppm	-0.0011 ppm	0.0003 ppm	-0.0005 ppm
Concentration per Run 3	0.0006 ppm	0.0003 ppm	21.0498 ppm	-0.0002 ppm	-0.0004 ppm	0.0014 ppm	-0.0010 ppm
Concentration RSD	23.4 %	26.6 %	3.4 %	24.9 %	44.6 %	65.3 %	74.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	9.4397 ppm	0.0005 ppm	0.0987 ppm	0.0002 ppm	-0.0004 ppm	0.0001 ppm	0.0015 ppm
Concentration per Run 1	9.4023 ppm	0.0003 ppm	0.0989 ppm	0.0003 ppm	-0.0009 ppm	0.0001 ppm	0.0013 ppm
Concentration per Run 2	9.4566 ppm	0.0007 ppm	0.0989 ppm	0.0001 ppm	0.0006 ppm	0.0002 ppm	0.0016 ppm
Concentration per Run 3	9.4601 ppm	0.0004 ppm	0.0982 ppm	0.0001 ppm	-0.0008 ppm	-0.0001 ppm	0.0015 ppm
Concentration RSD	0.3 %	38.8 %	0.4 %	44.9 %	225.1 %	177.0 %	9.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.4388 %	95.4148 %	93.9055 %	97.0446 %	89.2659 %	94.4425 %	0.0025 ppm
Concentration per Run 1	99.3316 %	94.8698 %	94.3716 %	96.2455 %	89.6752 %	93.6642 %	0.0022 ppm
Concentration per Run 2	99.9604 %	94.9380 %	93.4342 %	97.4247 %	89.0263 %	94.0483 %	0.0026 ppm
Concentration per Run 3	99.0245 %	96.4366 %	93.9107 %	97.4634 %	89.0960 %	95.6149 %	0.0026 ppm
Concentration RSD	0.5 %	0.9 %	0.5 %	0.7 %	0.4 %	1.1 %	9.2 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: L2538382-05 WG2084038
 Analysis started at: 6/27/2025 10:49:03 AM
 Comments: <Comment>
 Rack: 1
 Vial: 15

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0092 ppm	0.0006 ppm	0.0195 ppm	0.0419 ppm	0.0000 ppm	7.1153 ppm
Concentration per Run 1	-0.0002 ppm	0.0084 ppm	0.0012 ppm	0.0197 ppm	0.0419 ppm	0.0000 ppm	7.2474 ppm
Concentration per Run 2	-0.0004 ppm	0.0108 ppm	0.0010 ppm	0.0194 ppm	0.0419 ppm	0.0000 ppm	7.0577 ppm
Concentration per Run 3	-0.0001 ppm	0.0086 ppm	-0.0004 ppm	0.0195 ppm	0.0418 ppm	0.0000 ppm	7.0408 ppm
Concentration RSD	58.3 %	14.9 %	147.0 %	0.8 %	0.2 %	83.4 %	1.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	-0.0001 ppm	0.0005 ppm	0.0011 ppm	0.0035 ppm	1.0555 ppm	2.7671 ppm
Concentration per Run 1	0.0002 ppm	0.0000 ppm	0.0004 ppm	0.0011 ppm	0.0033 ppm	1.0160 ppm	2.7830 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	0.0004 ppm	0.0011 ppm	0.0034 ppm	1.0735 ppm	2.7606 ppm
Concentration per Run 3	0.0001 ppm	-0.0002 ppm	0.0007 ppm	0.0011 ppm	0.0039 ppm	1.0769 ppm	2.7579 ppm
Concentration RSD	24.8 %	62.5 %	41.4 %	1.0 %	9.4 %	3.2 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0184 ppm	0.0002 ppm	43.6172 ppm	0.0001 ppm	-0.0007 ppm	-0.0001 ppm	-0.0010 ppm
Concentration per Run 1	0.0187 ppm	0.0001 ppm	42.8896 ppm	0.0000 ppm	0.0001 ppm	0.0006 ppm	-0.0009 ppm
Concentration per Run 2	0.0182 ppm	0.0002 ppm	44.0449 ppm	0.0004 ppm	-0.0007 ppm	-0.0015 ppm	-0.0024 ppm
Concentration per Run 3	0.0183 ppm	0.0003 ppm	43.9173 ppm	0.0000 ppm	-0.0013 ppm	0.0007 ppm	0.0004 ppm
Concentration RSD	1.5 %	32.9 %	1.5 %	176.5 %	111.4 %	2,441.0 %	143.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.3495 ppm	-0.0001 ppm	0.0355 ppm	0.0001 ppm	0.0003 ppm	0.0001 ppm	0.0037 ppm
Concentration per Run 1	5.3690 ppm	-0.0004 ppm	0.0355 ppm	0.0002 ppm	0.0009 ppm	0.0002 ppm	0.0036 ppm
Concentration per Run 2	5.3496 ppm	0.0002 ppm	0.0355 ppm	0.0003 ppm	0.0006 ppm	0.0002 ppm	0.0035 ppm
Concentration per Run 3	5.3299 ppm	-0.0002 ppm	0.0356 ppm	-0.0001 ppm	-0.0004 ppm	0.0000 ppm	0.0040 ppm
Concentration RSD	0.4 %	213.7 %	0.2 %	128.1 %	203.1 %	87.9 %	7.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.1411 %	95.1886 %	92.9295 %	97.3606 %	87.7816 %	93.7201 %	0.0004 ppm
Concentration per Run 1	100.4984 %	94.8949 %	93.2863 %	96.8078 %	87.6157 %	93.3332 %	0.0003 ppm
Concentration per Run 2	100.1859 %	95.5025 %	92.6817 %	97.5052 %	87.5210 %	94.0352 %	0.0005 ppm
Concentration per Run 3	99.7390 %	95.1685 %	92.8204 %	97.7687 %	88.2080 %	93.7919 %	0.0003 ppm
Concentration RSD	0.4 %	0.3 %	0.3 %	0.5 %	0.4 %	0.4 %	37.7 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: xL2538382-07 WG2084038
 Analysis started at: 6/27/2025 10:55:36 AM
 Comments: <Comment>
 Rack: 1
 Vial: 16

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	0.0064 ppm	-0.0008 ppm	0.0195 ppm	0.0420 ppm	0.0000 ppm	7.1885 ppm
Concentration per Run 1	-0.0001 ppm	0.0068 ppm	-0.0021 ppm	0.0193 ppm	0.0417 ppm	0.0000 ppm	7.3183 ppm
Concentration per Run 2	0.0001 ppm	0.0071 ppm	-0.0009 ppm	0.0198 ppm	0.0420 ppm	0.0000 ppm	7.1302 ppm
Concentration per Run 3	-0.0001 ppm	0.0054 ppm	0.0007 ppm	0.0195 ppm	0.0422 ppm	0.0000 ppm	7.1170 ppm
Concentration RSD	199.6 %	14.4 %	174.1 %	1.1 %	0.6 %	83.4 %	1.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	-0.0002 ppm	0.0003 ppm	0.0012 ppm	0.0038 ppm	1.0614 ppm	2.7787 ppm
Concentration per Run 1	0.0001 ppm	-0.0002 ppm	0.0006 ppm	0.0010 ppm	0.0035 ppm	1.0135 ppm	2.7762 ppm
Concentration per Run 2	0.0001 ppm	-0.0003 ppm	0.0002 ppm	0.0012 ppm	0.0034 ppm	1.0987 ppm	2.7715 ppm
Concentration per Run 3	0.0001 ppm	-0.0003 ppm	0.0002 ppm	0.0013 ppm	0.0046 ppm	1.0721 ppm	2.7882 ppm
Concentration RSD	34.8 %	34.0 %	61.8 %	10.9 %	16.8 %	4.1 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0181 ppm	0.0003 ppm	42.3853 ppm	0.0001 ppm	-0.0002 ppm	-0.0002 ppm	-0.0005 ppm
Concentration per Run 1	0.0182 ppm	0.0004 ppm	42.3853 ppm	0.0002 ppm	-0.0001 ppm	0.0000 ppm	0.0017 ppm
Concentration per Run 2	0.0179 ppm	0.0002 ppm	0.0000 ppm	0.0002 ppm	-0.0003 ppm	-0.0001 ppm	-0.0013 ppm
Concentration per Run 3	0.0183 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm	-0.0005 ppm	-0.0020 ppm
Concentration RSD	1.2 %	26.9 %		105.8 %	63.0 %	166.7 %	354.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.3824 ppm	-0.0004 ppm	0.0356 ppm	0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0022 ppm
Concentration per Run 1	5.3925 ppm	-0.0006 ppm	0.0354 ppm	0.0002 ppm	0.0004 ppm	0.0004 ppm	0.0022 ppm
Concentration per Run 2	5.3731 ppm	-0.0005 ppm	0.0357 ppm	0.0001 ppm	-0.0009 ppm	0.0000 ppm	0.0023 ppm
Concentration per Run 3	5.3818 ppm	-0.0001 ppm	0.0357 ppm	0.0001 ppm	0.0009 ppm	0.0001 ppm	0.0021 ppm
Concentration RSD	0.2 %	58.0 %	0.5 %	46.0 %	653.8 %	130.3 %	4.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.2363 %	95.5152 %	92.5761 %	97.7519 %	87.3716 %	93.7530 %	0.0001 ppm
Concentration per Run 1	100.1785 %	95.6733 %	92.1959 %	97.4018 %	87.0659 %	93.9133 %	0.0003 ppm
Concentration per Run 2	100.4190 %	95.2699 %	92.6421 %	98.2597 %	87.6381 %	93.3962 %	0.0001 ppm
Concentration per Run 3	100.1115 %	95.6025 %	92.8903 %	97.5942 %	87.4109 %	93.9496 %	-0.0003 ppm
Concentration RSD	0.2 %	0.2 %	0.4 %	0.5 %	0.3 %	0.3 %	628.0 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: L2536164-02 WG2082817
 Analysis started at: 6/27/2025 11:13:49 AM
 Comments: run Na
 Rack: 1
 Vial: 18

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.0044 ppm	0.0012 ppm	0.0250 ppm	0.1288 ppm	0.0000 ppm	21.3267 ppm
Concentration per Run 1	0.0002 ppm	0.0038 ppm	0.0009 ppm	0.0252 ppm	0.1292 ppm	0.0000 ppm	21.2264 ppm
Concentration per Run 2	-0.0003 ppm	0.0038 ppm	0.0007 ppm	0.0249 ppm	0.1284 ppm	0.0000 ppm	21.6095 ppm
Concentration per Run 3	-0.0003 ppm	0.0057 ppm	0.0019 ppm	0.0250 ppm	0.1287 ppm	0.0000 ppm	21.1442 ppm
Concentration RSD	197.0 %	24.8 %	55.3 %	0.6 %	0.3 %	23.2 %	1.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	-0.0002 ppm	0.0005 ppm	0.0236 ppm	0.0045 ppm	39.8487 ppm	3.6067 ppm
Concentration per Run 1	0.0001 ppm	-0.0002 ppm	0.0005 ppm	0.0239 ppm	0.0039 ppm	39.6181 ppm	3.6044 ppm
Concentration per Run 2	0.0001 ppm	0.0000 ppm	0.0004 ppm	0.0237 ppm	0.0049 ppm	39.4433 ppm	3.6070 ppm
Concentration per Run 3	0.0001 ppm	-0.0003 ppm	0.0006 ppm	0.0233 ppm	0.0047 ppm	40.4849 ppm	3.6088 ppm
Concentration RSD	21.7 %	68.2 %	18.3 %	1.2 %	11.3 %	1.4 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0006 ppm	0.0000 ppm	97.5516 ppm	-0.0002 ppm	-0.0009 ppm	-0.0003 ppm	-0.0009 ppm
Concentration per Run 1	0.0005 ppm	0.0001 ppm	95.9290 ppm	0.0000 ppm	-0.0007 ppm	-0.0006 ppm	-0.0016 ppm
Concentration per Run 2	0.0006 ppm	0.0002 ppm	97.8001 ppm	-0.0002 ppm	-0.0012 ppm	0.0003 ppm	-0.0006 ppm
Concentration per Run 3	0.0007 ppm	-0.0002 ppm	98.9257 ppm	-0.0004 ppm	-0.0008 ppm	-0.0005 ppm	-0.0005 ppm
Concentration RSD	13.6 %	479.2 %	1.6 %	107.3 %	29.0 %	204.4 %	65.8 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.7622 ppm	-0.0001 ppm	0.1317 ppm	0.0004 ppm	-0.0002 ppm	0.0003 ppm	0.0089 ppm
Concentration per Run 1	5.7730 ppm	-0.0006 ppm	0.1320 ppm	0.0004 ppm	-0.0006 ppm	0.0003 ppm	0.0088 ppm
Concentration per Run 2	5.7769 ppm	0.0001 ppm	0.1314 ppm	0.0004 ppm	-0.0001 ppm	0.0003 ppm	0.0091 ppm
Concentration per Run 3	5.7365 ppm	0.0000 ppm	0.1317 ppm	0.0004 ppm	0.0000 ppm	0.0001 ppm	0.0087 ppm
Concentration RSD	0.4 %	271.5 %	0.2 %	5.4 %	137.9 %	36.8 %	1.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	98.6284 %	91.9765 %	90.4251 %	95.8116 %	80.6584 %	90.1933 %	0.0006 ppm
Concentration per Run 1	99.5140 %	91.4926 %	90.6568 %	96.2083 %	80.6295 %	89.6654 %	0.0005 ppm
Concentration per Run 2	97.9244 %	92.0528 %	90.2745 %	95.2547 %	80.4801 %	90.2585 %	0.0009 ppm
Concentration per Run 3	98.4469 %	92.3841 %	90.3442 %	95.9719 %	80.8656 %	90.6561 %	0.0004 ppm
Concentration RSD	0.8 %	0.5 %	0.2 %	0.5 %	0.2 %	0.6 %	45.7 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: L2538382-07 WG2084038
 Analysis started at: 6/27/2025 11:20:31 AM
 Comments: Na skip rr
 Rack: 1
 Vial: 19

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0004 ppm	0.0044 ppm	-0.0002 ppm	0.0193 ppm	0.0424 ppm	0.0000 ppm	7.3794 ppm
Concentration per Run 1	-0.0003 ppm	0.0048 ppm	-0.0002 ppm	0.0194 ppm	0.0426 ppm	0.0000 ppm	7.5100 ppm
Concentration per Run 2	-0.0004 ppm	0.0038 ppm	-0.0019 ppm	0.0194 ppm	0.0423 ppm	0.0000 ppm	7.3769 ppm
Concentration per Run 3	-0.0003 ppm	0.0045 ppm	0.0016 ppm	0.0191 ppm	0.0421 ppm	0.0000 ppm	7.2514 ppm
Concentration RSD	14.2 %	12.0 %	1,019.5 %	0.9 %	0.6 %	34.3 %	1.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	-0.0002 ppm	0.0005 ppm	0.0012 ppm	0.0040 ppm	1.0421 ppm	2.8110 ppm
Concentration per Run 1	0.0001 ppm	-0.0003 ppm	0.0005 ppm	0.0013 ppm	0.0037 ppm	1.0010 ppm	2.8114 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	0.0005 ppm	0.0014 ppm	0.0037 ppm	1.0579 ppm	2.8177 ppm
Concentration per Run 3	0.0001 ppm	-0.0003 ppm	0.0005 ppm	0.0011 ppm	0.0045 ppm	1.0676 ppm	2.8038 ppm
Concentration RSD	21.1 %	39.3 %	6.7 %	12.1 %	12.0 %	3.5 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0184 ppm	0.0001 ppm	42.9967 ppm	0.0002 ppm	-0.0007 ppm	-0.0007 ppm	-0.0002 ppm
Concentration per Run 1	0.0188 ppm	0.0002 ppm	41.9746 ppm	0.0003 ppm	-0.0006 ppm	-0.0004 ppm	0.0010 ppm
Concentration per Run 2	0.0184 ppm	0.0001 ppm	43.3807 ppm	0.0003 ppm	-0.0010 ppm	-0.0009 ppm	-0.0006 ppm
Concentration per Run 3	0.0180 ppm	-0.0001 ppm	43.6348 ppm	0.0001 ppm	-0.0006 ppm	-0.0008 ppm	-0.0011 ppm
Concentration RSD	2.3 %	288.6 %	2.1 %	37.8 %	33.6 %	36.1 %	553.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.4359 ppm	-0.0004 ppm	0.0363 ppm	0.0001 ppm	-0.0002 ppm	0.0002 ppm	0.0021 ppm
Concentration per Run 1	5.4213 ppm	-0.0005 ppm	0.0366 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0021 ppm
Concentration per Run 2	5.4255 ppm	-0.0001 ppm	0.0363 ppm	0.0001 ppm	-0.0005 ppm	0.0002 ppm	0.0022 ppm
Concentration per Run 3	5.4607 ppm	-0.0004 ppm	0.0360 ppm	0.0003 ppm	-0.0003 ppm	0.0003 ppm	0.0022 ppm
Concentration RSD	0.4 %	60.1 %	0.8 %	123.8 %	126.3 %	69.7 %	2.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.7700 %	95.3934 %	92.7794 %	96.6568 %	87.7248 %	93.8571 %	0.0002 ppm
Concentration per Run 1	100.0853 %	95.7134 %	93.0474 %	95.8179 %	88.0409 %	94.1236 %	0.0003 ppm
Concentration per Run 2	99.7348 %	95.1235 %	93.3196 %	97.0981 %	88.0275 %	93.5806 %	0.0001 ppm
Concentration per Run 3	99.4898 %	95.3431 %	91.9712 %	97.0544 %	87.1061 %	93.8672 %	0.0003 ppm
Concentration RSD	0.3 %	0.3 %	0.8 %	0.8 %	0.6 %	0.3 %	63.8 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: CCV
 Analysis started at: 6/27/2025 11:31:52 AM
 Comments: <Comment>
 Rack: 0
 Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5003 ppm	0.5007 ppm	0.4672 ppm	0.4962 ppm	0.4944 ppm	0.4987 ppm	0.5021 ppm
Concentration per Run 1	0.5007 ppm	0.4900 ppm	0.4654 ppm	0.4964 ppm	0.4866 ppm	0.4904 ppm	0.4966 ppm
Concentration per Run 2	0.5000 ppm	0.5056 ppm	0.4659 ppm	0.4951 ppm	0.4966 ppm	0.5005 ppm	0.5007 ppm
Concentration per Run 3	0.5001 ppm	0.5066 ppm	0.4704 ppm	0.4971 ppm	0.4999 ppm	0.5052 ppm	0.5091 ppm
Recovery Percentage 1	100.052 %	100.147 %	93.446 %	99.244 %	98.875 %	99.739 %	100.424 %
Concentration RSD	0.1 %	1.9 %	0.6 %	0.2 %	1.4 %	1.5 %	1.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4855 ppm	0.5085 ppm	0.5081 ppm	0.4909 ppm	0.5017 ppm	5.1612 ppm	0.5115 ppm
Concentration per Run 1	0.4862 ppm	0.5091 ppm	0.5112 ppm	0.4883 ppm	0.4923 ppm	5.0204 ppm	0.5143 ppm
Concentration per Run 2	0.4856 ppm	0.5075 ppm	0.5077 ppm	0.4898 ppm	0.5034 ppm	5.2619 ppm	0.5082 ppm
Concentration per Run 3	0.4846 ppm	0.5089 ppm	0.5054 ppm	0.4944 ppm	0.5095 ppm	5.2014 ppm	0.5119 ppm
Recovery Percentage 1	97.098 %	101.697 %	101.623 %	98.173 %	100.344 %	103.225 %	102.296 %
Concentration RSD	0.2 %	0.2 %	0.6 %	0.7 %	1.7 %	2.4 %	0.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5060 ppm	0.4903 ppm	10.3416 ppm	0.4795 ppm	0.4880 ppm	0.4794 ppm	0.4912 ppm
Concentration per Run 1	0.4986 ppm	0.4902 ppm	10.0630 ppm	0.4778 ppm	0.4875 ppm	0.4778 ppm	0.4928 ppm
Concentration per Run 2	0.5071 ppm	0.4899 ppm	10.5420 ppm	0.4795 ppm	0.4860 ppm	0.4765 ppm	0.4892 ppm
Concentration per Run 3	0.5124 ppm	0.4910 ppm	10.4196 ppm	0.4812 ppm	0.4905 ppm	0.4840 ppm	0.4915 ppm
Recovery Percentage 1	101.208 %	98.068 %	103.416 %	95.902 %	97.606 %	95.884 %	98.236 %
Concentration RSD	1.4 %	0.1 %	2.4 %	0.4 %	0.5 %	0.8 %	0.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.2958 ppm	0.4633 ppm	0.5133 ppm	0.5021 ppm	0.4941 ppm	0.5016 ppm	0.5021 ppm
Concentration per Run 1	5.2767 ppm	0.4640 ppm	0.5050 ppm	0.5028 ppm	0.4924 ppm	0.5020 ppm	0.5046 ppm
Concentration per Run 2	5.2802 ppm	0.4601 ppm	0.5155 ppm	0.5022 ppm	0.4928 ppm	0.5029 ppm	0.4999 ppm
Concentration per Run 3	5.3303 ppm	0.4658 ppm	0.5193 ppm	0.5013 ppm	0.4971 ppm	0.4998 ppm	0.5018 ppm
Recovery Percentage 1	100.872 %	92.656 %	102.657 %	100.421 %	98.819 %	100.311 %	100.419 %
Concentration RSD	0.6 %	0.6 %	1.5 %	0.1 %	0.5 %	0.3 %	0.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.6000 %	98.8296 %	97.6364 %	101.8532 %	92.1140 %	98.6998 %	0.5377 ppm
Concentration per Run 1	102.9020 %	98.9223 %	97.7398 %	103.1680 %	92.6122 %	98.8762 %	0.5233 ppm
Concentration per Run 2	101.4015 %	98.8330 %	98.0813 %	101.7112 %	92.2659 %	98.7206 %	0.5490 ppm
Concentration per Run 3	100.4966 %	98.7335 %	97.0879 %	100.6804 %	91.4640 %	98.5026 %	0.5408 ppm
Recovery Percentage 1							107.538 %
Concentration RSD	1.2 %	0.1 %	0.5 %	1.2 %	0.6 %	0.2 %	2.4 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: CCB
 Analysis started at: 6/27/2025 11:38:10 AM
 Comments: <Comment>
 Rack: 0
 Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	-0.0006 ppm	-0.0010 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	-0.0007 ppm
Concentration per Run 1	-0.0002 ppm	-0.0002 ppm	-0.0001 ppm	0.0011 ppm	0.0000 ppm	0.0000 ppm	-0.0004 ppm
Concentration per Run 2	-0.0004 ppm	-0.0006 ppm	-0.0016 ppm	0.0009 ppm	0.0000 ppm	0.0001 ppm	-0.0021 ppm
Concentration per Run 3	-0.0004 ppm	-0.0011 ppm	-0.0013 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	0.0005 ppm
Recovery Percentage 1	-4.493 %	-0.643 %	-20.024 %	3.233 %	-0.069 %	0.701 %	-0.654 %
Concentration RSD	44.0 %	70.5 %	79.6 %	10.3 %	168.5 %	93.6 %	196.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	-0.0077 ppm	-0.0005 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0001 ppm	-0.0003 ppm	-0.0158 ppm	-0.0006 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0000 ppm	-0.0011 ppm	-0.0004 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0002 ppm	0.0002 ppm	0.0002 ppm	-0.0062 ppm	-0.0005 ppm
Recovery Percentage 1	0.297 %	-0.662 %	-0.287 %	1.021 %	-0.044 %	-0.308 %	-0.500 %
Concentration RSD	220.0 %	61.0 %	578.2 %	50.7 %	1,174.4 %	97.2 %	15.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0005 ppm	0.0018 ppm	-0.0002 ppm	-0.0004 ppm	0.0001 ppm	-0.0002 ppm
Concentration per Run 1	0.0000 ppm	0.0006 ppm	0.0019 ppm	-0.0002 ppm	-0.0004 ppm	-0.0002 ppm	-0.0007 ppm
Concentration per Run 2	0.0001 ppm	0.0005 ppm	0.0012 ppm	-0.0003 ppm	-0.0009 ppm	0.0002 ppm	-0.0018 ppm
Concentration per Run 3	0.0000 ppm	0.0004 ppm	0.0023 ppm	-0.0002 ppm	0.0002 ppm	0.0004 ppm	0.0017 ppm
Recovery Percentage 1	0.423 %	1.000 %	0.090 %	-0.833 %	-3.591 %	0.250 %	-2.490 %
Concentration RSD	124.2 %	24.4 %	31.5 %	35.3 %	153.1 %	216.1 %	710.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0011 ppm	0.0005 ppm	0.0000 ppm	0.0001 ppm	-0.0005 ppm	0.0001 ppm	-0.0002 ppm
Concentration per Run 1	0.0015 ppm	0.0008 ppm	0.0000 ppm	0.0001 ppm	-0.0001 ppm	0.0000 ppm	-0.0002 ppm
Concentration per Run 2	0.0012 ppm	0.0006 ppm	0.0000 ppm	0.0001 ppm	-0.0003 ppm	0.0002 ppm	-0.0001 ppm
Concentration per Run 3	0.0007 ppm	0.0001 ppm	-0.0001 ppm	0.0001 ppm	-0.0010 ppm	0.0002 ppm	-0.0002 ppm
Recovery Percentage 1	0.226 %	1.005 %	-0.336 %	1.003 %	-2.344 %	1.168 %	-3.457 %
Concentration RSD	35.8 %	64.2 %	116.3 %	35.5 %	102.0 %	70.0 %	49.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.1045 %	100.0269 %	97.5675 %	99.7390 %	94.1078 %	98.8792 %	0.0003 ppm
Concentration per Run 1	101.9570 %	100.4173 %	97.9880 %	100.7077 %	94.6808 %	99.2628 %	0.0002 ppm
Concentration per Run 2	100.4929 %	99.6742 %	96.9873 %	99.1128 %	93.5764 %	98.4775 %	0.0003 ppm
Concentration per Run 3	100.8635 %	99.9893 %	97.7273 %	99.3966 %	94.0661 %	98.8973 %	0.0003 ppm
Recovery Percentage 1							2.633 %
Concentration RSD	0.8 %	0.4 %	0.5 %	0.9 %	0.6 %	0.4 %	27.7 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: WG2084192-1 WG2084192
Analysis started at: 6/27/2025 12:01:47 PM
Comments: <Comment>
Rack: 1
Vial: 20

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	0.0094 ppm	-0.0003 ppm	0.0008 ppm	0.0001 ppm	0.0000 ppm	0.0269 ppm
Concentration per Run 1	-0.0004 ppm	0.0094 ppm	0.0008 ppm	0.0009 ppm	0.0001 ppm	0.0000 ppm	0.0254 ppm
Concentration per Run 2	-0.0002 ppm	0.0097 ppm	-0.0020 ppm	0.0007 ppm	0.0001 ppm	0.0000 ppm	0.0271 ppm
Concentration per Run 3	-0.0002 ppm	0.0091 ppm	0.0004 ppm	0.0006 ppm	0.0001 ppm	0.0000 ppm	0.0282 ppm
Recovery Percentage 1	-3.614 %	9.410 %	-5.235 %	2.516 %	1.050 %	0.105 %	26.882 %
Concentration RSD	57.0 %	3.1 %	568.1 %	20.6 %	10.4 %	521.8 %	5.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0006 ppm	0.0084 ppm	-0.0046 ppm	0.0060 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0006 ppm	0.0082 ppm	-0.0019 ppm	0.0077 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0004 ppm	0.0005 ppm	0.0084 ppm	-0.0063 ppm	0.0053 ppm
Concentration per Run 3	-0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0007 ppm	0.0086 ppm	-0.0055 ppm	0.0049 ppm
Recovery Percentage 1	-0.935 %	-0.073 %	-1.003 %	6.098 %	16.792 %	-0.184 %	5.972 %
Concentration RSD	89.7 %	798.6 %	217.2 %	13.3 %	2.4 %	51.0 %	24.8 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0004 ppm	0.0000 ppm	0.0124 ppm	0.0003 ppm	0.0004 ppm	-0.0004 ppm	-0.0003 ppm
Concentration per Run 1	0.0005 ppm	0.0000 ppm	0.0135 ppm	0.0001 ppm	0.0008 ppm	-0.0011 ppm	0.0005 ppm
Concentration per Run 2	0.0003 ppm	0.0000 ppm	0.0117 ppm	0.0004 ppm	0.0001 ppm	-0.0010 ppm	0.0008 ppm
Concentration per Run 3	0.0004 ppm	-0.0001 ppm	0.0120 ppm	0.0003 ppm	0.0003 ppm	0.0008 ppm	-0.0021 ppm
Recovery Percentage 1	3.592 %	-0.095 %	0.621 %	1.167 %	3.841 %	-0.839 %	-2.774 %
Concentration RSD	30.5 %	73.4 %	7.8 %	52.6 %	86.0 %	247.6 %	569.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0195 ppm	-0.0004 ppm	0.0000 ppm	0.0003 ppm	0.0013 ppm	0.0000 ppm	0.0031 ppm
Concentration per Run 1	0.0196 ppm	-0.0007 ppm	0.0000 ppm	0.0003 ppm	0.0021 ppm	0.0002 ppm	0.0030 ppm
Concentration per Run 2	0.0192 ppm	-0.0003 ppm	0.0001 ppm	0.0004 ppm	0.0014 ppm	0.0000 ppm	0.0032 ppm
Concentration per Run 3	0.0197 ppm	-0.0002 ppm	0.0000 ppm	0.0002 ppm	0.0005 ppm	0.0000 ppm	0.0031 ppm
Recovery Percentage 1	3.900 %	-0.848 %	0.399 %	2.858 %	6.526 %	0.365 %	61.990 %
Concentration RSD	1.3 %	67.4 %	36.9 %	31.9 %	62.7 %	296.5 %	2.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	103.1224 %	100.3727 %	97.8217 %	100.0811 %	99.0762 %	98.2251 %	0.0001 ppm
Concentration per Run 1	103.6211 %	100.8315 %	97.9021 %	100.3742 %	99.2771 %	98.5961 %	0.0003 ppm
Concentration per Run 2	103.3896 %	100.1583 %	97.7101 %	100.1100 %	98.7973 %	98.0726 %	0.0001 ppm
Concentration per Run 3	102.3564 %	100.1284 %	97.8529 %	99.7590 %	99.1543 %	98.0066 %	0.0000 ppm
Recovery Percentage 1							1.175 %
Concentration RSD	0.7 %	0.4 %	0.1 %	0.3 %	0.3 %	0.3 %	132.7 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: WG2084192-2 WG2084192
Analysis started at: 6/27/2025 12:08:28 PM
Comments: <Comment>
Rack: 1
Vial: 21

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0599 ppm	2.5716 ppm	0.1202 ppm	0.9864 ppm	2.4111 ppm	0.0589 ppm	10.3168 ppm
Concentration per Run 1	0.0597 ppm	2.5560 ppm	0.1220 ppm	0.9879 ppm	2.4295 ppm	0.0591 ppm	10.4004 ppm
Concentration per Run 2	0.0599 ppm	2.5774 ppm	0.1205 ppm	0.9820 ppm	2.4079 ppm	0.0591 ppm	10.4002 ppm
Concentration per Run 3	0.0602 ppm	2.5814 ppm	0.1181 ppm	0.9895 ppm	2.3958 ppm	0.0583 ppm	10.1500 ppm
Concentration RSD	0.4 %	0.5 %	1.7 %	0.4 %	0.7 %	0.8 %	1.4 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0535 ppm	0.5764 ppm	0.2297 ppm	0.2949 ppm	1.2193 ppm	11.2079 ppm	10.3474 ppm
Concentration per Run 1	0.0538 ppm	0.5792 ppm	0.2283 ppm	0.2943 ppm	1.2250 ppm	10.9070 ppm	10.3110 ppm
Concentration per Run 2	0.0533 ppm	0.5733 ppm	0.2295 ppm	0.2950 ppm	1.2230 ppm	11.1928 ppm	10.3232 ppm
Concentration per Run 3	0.0535 ppm	0.5768 ppm	0.2311 ppm	0.2955 ppm	1.2098 ppm	11.5238 ppm	10.4081 ppm
Concentration RSD	0.4 %	0.5 %	0.6 %	0.2 %	0.7 %	2.8 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5959 ppm	0.9758 ppm	11.9091 ppm	0.5549 ppm	0.5225 ppm	0.5078 ppm	0.1217 ppm
Concentration per Run 1	0.5993 ppm	0.9777 ppm	11.6246 ppm	0.5547 ppm	0.5237 ppm	0.5061 ppm	0.1216 ppm
Concentration per Run 2	0.5979 ppm	0.9716 ppm	11.8606 ppm	0.5555 ppm	0.5213 ppm	0.5088 ppm	0.1230 ppm
Concentration per Run 3	0.5905 ppm	0.9782 ppm	12.2421 ppm	0.5545 ppm	0.5223 ppm	0.5084 ppm	0.1206 ppm
Concentration RSD	0.8 %	0.4 %	2.6 %	0.1 %	0.2 %	0.3 %	1.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.9618 ppm	0.9525 ppm	1.0651 ppm	1.0182 ppm	0.1170 ppm	0.5842 ppm	0.5702 ppm
Concentration per Run 1	0.9624 ppm	0.9539 ppm	1.0627 ppm	1.0154 ppm	0.1166 ppm	0.5823 ppm	0.5730 ppm
Concentration per Run 2	0.9619 ppm	0.9522 ppm	1.0670 ppm	1.0191 ppm	0.1169 ppm	0.5852 ppm	0.5685 ppm
Concentration per Run 3	0.9611 ppm	0.9514 ppm	1.0656 ppm	1.0201 ppm	0.1175 ppm	0.5851 ppm	0.5692 ppm
Concentration RSD	0.1 %	0.1 %	0.2 %	0.2 %	0.4 %	0.3 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.9965 %	96.6001 %	93.6473 %	98.5260 %	88.8195 %	95.4900 %	0.0001 ppm
Concentration per Run 1	100.5146 %	96.4751 %	93.7758 %	98.8176 %	88.9131 %	95.3809 %	0.0001 ppm
Concentration per Run 2	99.6170 %	96.9038 %	93.6291 %	98.1078 %	88.6853 %	95.7764 %	0.0002 ppm
Concentration per Run 3	99.8579 %	96.4213 %	93.5369 %	98.6525 %	88.8601 %	95.3126 %	0.0000 ppm
Concentration RSD	0.5 %	0.3 %	0.1 %	0.4 %	0.1 %	0.3 %	148.3 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: L2538432-04 WG2084192
 Analysis started at: 6/27/2025 12:19:57 PM
 Comments: <Comment>
 Rack: 1
 Vial: 27

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	0.0041 ppm	-0.0003 ppm	0.0012 ppm	0.0001 ppm	0.0000 ppm	0.0094 ppm
Concentration per Run 1	-0.0003 ppm	0.0030 ppm	-0.0007 ppm	0.0014 ppm	0.0001 ppm	0.0000 ppm	0.0107 ppm
Concentration per Run 2	-0.0003 ppm	0.0053 ppm	0.0005 ppm	0.0011 ppm	0.0000 ppm	0.0000 ppm	0.0071 ppm
Concentration per Run 3	-0.0003 ppm	0.0039 ppm	-0.0005 ppm	0.0011 ppm	0.0001 ppm	0.0000 ppm	0.0103 ppm
Concentration RSD	3.9 %	28.5 %	257.0 %	14.9 %	59.5 %	133.1 %	21.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0005 ppm	0.0012 ppm	-0.0059 ppm	0.0022 ppm
Concentration per Run 1	0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0005 ppm	0.0015 ppm	-0.0104 ppm	0.0010 ppm
Concentration per Run 2	-0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0006 ppm	0.0016 ppm	-0.0052 ppm	0.0026 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0005 ppm	0.0006 ppm	-0.0021 ppm	0.0030 ppm
Concentration RSD	13,031.7 %	48.6 %	103.5 %	7.0 %	45.3 %	71.5 %	47.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	0.0005 ppm	0.0025 ppm	0.0000 ppm	0.0004 ppm	0.0002 ppm	-0.0002 ppm
Concentration per Run 1	0.0002 ppm	0.0004 ppm	0.0008 ppm	-0.0001 ppm	0.0005 ppm	-0.0004 ppm	-0.0005 ppm
Concentration per Run 2	0.0000 ppm	0.0006 ppm	0.0030 ppm	0.0000 ppm	0.0005 ppm	0.0006 ppm	0.0004 ppm
Concentration per Run 3	0.0000 ppm	0.0005 ppm	0.0038 ppm	-0.0001 ppm	0.0002 ppm	0.0006 ppm	-0.0005 ppm
Concentration RSD	191.9 %	16.6 %	60.5 %	121.4 %	45.8 %	225.3 %	237.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0170 ppm	-0.0002 ppm	0.0000 ppm	0.0001 ppm	-0.0004 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 1	0.0170 ppm	0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0000 ppm	0.0002 ppm	0.0004 ppm
Concentration per Run 2	0.0170 ppm	-0.0006 ppm	0.0000 ppm	0.0001 ppm	-0.0008 ppm	-0.0001 ppm	0.0003 ppm
Concentration per Run 3	0.0168 ppm	-0.0001 ppm	0.0000 ppm	-0.0001 ppm	-0.0004 ppm	0.0000 ppm	0.0002 ppm
Concentration RSD	0.6 %	168.2 %	1,857.7 %	176.6 %	108.4 %	324.8 %	25.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	102.9241 %	100.4563 %	97.8586 %	99.3521 %	98.8579 %	98.5945 %	-0.0002 ppm
Concentration per Run 1	103.3802 %	100.0697 %	97.7666 %	98.8527 %	98.7533 %	98.1512 %	-0.0005 ppm
Concentration per Run 2	102.3970 %	100.9640 %	98.1735 %	99.3266 %	98.8551 %	99.1514 %	-0.0002 ppm
Concentration per Run 3	102.9950 %	100.3352 %	97.6357 %	99.8770 %	98.9653 %	98.4809 %	0.0002 ppm
Concentration RSD	0.5 %	0.5 %	0.3 %	0.5 %	0.1 %	0.5 %	207.9 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: L2538975-01 WG2082459
 Analysis started at: 6/27/2025 12:26:37 PM
 Comments: Field Blank
 Rack: 1
 Vial: 28

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0004 ppm	0.0135 ppm	0.0002 ppm	0.4213 ppm	0.0344 ppm	0.0000 ppm	158.1362 ppm
Concentration per Run 1	-0.0002 ppm	0.0147 ppm	0.0005 ppm	0.4231 ppm	0.0344 ppm	0.0001 ppm	162.8286 ppm
Concentration per Run 2	-0.0004 ppm	0.0128 ppm	-0.0010 ppm	0.4187 ppm	0.0346 ppm	0.0000 ppm	156.1545 ppm
Concentration per Run 3	-0.0006 ppm	0.0131 ppm	0.0012 ppm	0.4223 ppm	0.0342 ppm	0.0000 ppm	155.4254 ppm
Concentration RSD	52.3 %	7.7 %	503.5 %	0.6 %	0.6 %	51.6 %	2.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	-0.0002 ppm	-0.0001 ppm	0.0019 ppm	1.2108 ppm	21.0077 ppm	13.3356 ppm
Concentration per Run 1	0.0002 ppm	-0.0002 ppm	-0.0001 ppm	0.0021 ppm	1.2288 ppm	20.2289 ppm	13.3960 ppm
Concentration per Run 2	0.0001 ppm	-0.0003 ppm	-0.0002 ppm	0.0017 ppm	1.2055 ppm	21.8074 ppm	13.2815 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0020 ppm	1.1980 ppm	20.9868 ppm	13.3292 ppm
Concentration RSD	28.2 %	58.9 %	247.9 %	11.4 %	1.3 %	3.8 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4067 ppm	0.0059 ppm	491.5509 ppm	-0.0002 ppm	-0.0018 ppm	0.0007 ppm	-0.0009 ppm
Concentration per Run 1	0.4151 ppm	0.0058 ppm	518.3581 ppm	-0.0002 ppm	-0.0018 ppm	0.0004 ppm	-0.0012 ppm
Concentration per Run 2	0.4043 ppm	0.0060 ppm	495.2936 ppm	-0.0003 ppm	-0.0022 ppm	0.0011 ppm	-0.0003 ppm
Concentration per Run 3	0.4008 ppm	0.0059 ppm	461.0008 ppm	-0.0001 ppm	-0.0015 ppm	0.0007 ppm	-0.0013 ppm
Concentration RSD	1.8 %	1.3 %	5.9 %	52.4 %	19.5 %	50.9 %	60.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	11.9715 ppm	0.0013 ppm	0.7511 ppm	0.0004 ppm	-0.0023 ppm	0.0015 ppm	0.0048 ppm
Concentration per Run 1	12.0562 ppm	0.0016 ppm	0.7519 ppm	0.0004 ppm	-0.0032 ppm	0.0015 ppm	0.0048 ppm
Concentration per Run 2	11.9456 ppm	0.0016 ppm	0.7547 ppm	0.0003 ppm	-0.0025 ppm	0.0015 ppm	0.0047 ppm
Concentration per Run 3	11.9128 ppm	0.0008 ppm	0.7468 ppm	0.0005 ppm	-0.0013 ppm	0.0014 ppm	0.0048 ppm
Concentration RSD	0.6 %	36.3 %	0.5 %	16.6 %	40.0 %	3.6 %	1.7 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	93.1942 %	83.4103 %	82.3581 %	90.8055 %	65.9698 %	81.6894 %	0.0248 ppm
Concentration per Run 1	92.9506 %	83.0957 %	81.9527 %	90.2534 %	65.4181 %	81.3194 %	0.0235 ppm
Concentration per Run 2	93.2414 %	83.7433 %	82.3534 %	90.6159 %	66.0340 %	82.0229 %	0.0261 ppm
Concentration per Run 3	93.3905 %	83.3919 %	82.7683 %	91.5473 %	66.4573 %	81.7258 %	0.0247 ppm
Concentration RSD	0.2 %	0.4 %	0.5 %	0.7 %	0.8 %	0.4 %	5.4 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: L2537303-11 WG2084192
 Analysis started at: 6/27/2025 12:33:17 PM
 Comments: <Comment>
 Rack: 1
 Vial: 22

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0140 ppm	-0.0001 ppm	0.0062 ppm	0.0157 ppm	0.0000 ppm	27.7076 ppm
Concentration per Run 1	-0.0003 ppm	0.0127 ppm	0.0003 ppm	0.0063 ppm	0.0156 ppm	0.0000 ppm	27.3977 ppm
Concentration per Run 2	-0.0002 ppm	0.0162 ppm	-0.0008 ppm	0.0061 ppm	0.0157 ppm	0.0000 ppm	27.8865 ppm
Concentration per Run 3	-0.0003 ppm	0.0132 ppm	0.0001 ppm	0.0061 ppm	0.0157 ppm	0.0000 ppm	27.8388 ppm
Concentration RSD	25.0 %	13.8 %	427.9 %	1.8 %	0.2 %	31.0 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0002 ppm	-0.0003 ppm	0.0006 ppm	0.0010 ppm	0.0393 ppm	2.7502 ppm	6.6182 ppm
Concentration per Run 1	0.0002 ppm	-0.0003 ppm	0.0007 ppm	0.0010 ppm	0.0383 ppm	2.7753 ppm	6.6180 ppm
Concentration per Run 2	0.0002 ppm	-0.0004 ppm	0.0005 ppm	0.0011 ppm	0.0393 ppm	2.7268 ppm	6.6039 ppm
Concentration per Run 3	0.0001 ppm	-0.0002 ppm	0.0005 ppm	0.0010 ppm	0.0403 ppm	2.7483 ppm	6.6328 ppm
Concentration RSD	35.4 %	30.7 %	19.7 %	2.6 %	2.5 %	0.9 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0030 ppm	0.0002 ppm	23.7553 ppm	-0.0002 ppm	-0.0011 ppm	-0.0005 ppm	-0.0002 ppm
Concentration per Run 1	0.0028 ppm	0.0003 ppm	24.0532 ppm	-0.0002 ppm	-0.0014 ppm	0.0003 ppm	-0.0012 ppm
Concentration per Run 2	0.0032 ppm	0.0002 ppm	23.5548 ppm	-0.0003 ppm	-0.0010 ppm	-0.0006 ppm	0.0008 ppm
Concentration per Run 3	0.0028 ppm	0.0001 ppm	23.6580 ppm	-0.0002 ppm	-0.0008 ppm	-0.0012 ppm	-0.0002 ppm
Concentration RSD	7.0 %	63.3 %	1.1 %	23.5 %	26.2 %	158.9 %	526.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	8.9994 ppm	-0.0001 ppm	0.1575 ppm	0.0007 ppm	-0.0001 ppm	0.0002 ppm	0.0012 ppm
Concentration per Run 1	9.0090 ppm	-0.0006 ppm	0.1572 ppm	0.0007 ppm	-0.0002 ppm	0.0001 ppm	0.0010 ppm
Concentration per Run 2	8.9995 ppm	0.0003 ppm	0.1576 ppm	0.0008 ppm	-0.0007 ppm	0.0002 ppm	0.0012 ppm
Concentration per Run 3	8.9896 ppm	-0.0001 ppm	0.1578 ppm	0.0006 ppm	0.0007 ppm	0.0002 ppm	0.0012 ppm
Concentration RSD	0.1 %	302.5 %	0.2 %	13.1 %	1,002.9 %	25.5 %	10.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.2082 %	95.1345 %	93.1482 %	97.7204 %	87.8301 %	94.0746 %	0.0018 ppm
Concentration per Run 1	101.7599 %	95.3695 %	93.3882 %	98.3536 %	88.0169 %	94.2928 %	0.0019 ppm
Concentration per Run 2	100.1229 %	95.2125 %	92.9448 %	97.5909 %	87.8332 %	94.2595 %	0.0017 ppm
Concentration per Run 3	98.7419 %	94.8215 %	93.1116 %	97.2168 %	87.6401 %	93.6713 %	0.0019 ppm
Concentration RSD	1.5 %	0.3 %	0.2 %	0.6 %	0.2 %	0.4 %	5.5 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: xWG2084192-3 WG2084192
Analysis started at: 6/27/2025 12:39:52 PM
Comments: <Comment>
Rack: 1
Vial: 23

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0585 ppm	2.4268 ppm	0.1220 ppm	1.0271 ppm	2.2725 ppm	0.0561 ppm	36.5170 ppm
Concentration per Run 1	0.0581 ppm	2.4968 ppm	0.1211 ppm	1.0262 ppm	2.2678 ppm	0.0569 ppm	36.9001 ppm
Concentration per Run 2	0.0587 ppm	2.4716 ppm	0.1230 ppm	1.0266 ppm	2.3556 ppm	0.0578 ppm	37.8343 ppm
Concentration per Run 3	0.0587 ppm	2.3119 ppm	0.1218 ppm	1.0285 ppm	2.1940 ppm	0.0537 ppm	34.8166 ppm
Concentration RSD	0.6 %	4.1 %	0.8 %	0.1 %	3.6 %	3.8 %	4.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0526 ppm	0.5538 ppm	0.2213 ppm	0.2872 ppm	1.1525 ppm	13.5980 ppm	16.6042 ppm
Concentration per Run 1	0.0524 ppm	0.5530 ppm	0.2212 ppm	0.2851 ppm	1.1673 ppm	14.2587 ppm	16.5517 ppm
Concentration per Run 2	0.0527 ppm	0.5532 ppm	0.2213 ppm	0.2880 ppm	1.1858 ppm	13.5445 ppm	16.5990 ppm
Concentration per Run 3	0.0525 ppm	0.5552 ppm	0.2213 ppm	0.2885 ppm	1.1045 ppm	12.9908 ppm	16.6620 ppm
Concentration RSD	0.2 %	0.2 %	0.0 %	0.6 %	3.7 %	4.7 %	0.3 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5591 ppm	0.9723 ppm	33.8731 ppm	0.5412 ppm	0.5219 ppm	0.5040 ppm	0.1248 ppm
Concentration per Run 1	0.5660 ppm	0.9675 ppm	0.0000 ppm	0.5419 ppm	0.5235 ppm	0.5036 ppm	0.1254 ppm
Concentration per Run 2	0.5775 ppm	0.9741 ppm	34.7398 ppm	0.5402 ppm	0.5217 ppm	0.5033 ppm	0.1239 ppm
Concentration per Run 3	0.5338 ppm	0.9754 ppm	33.0063 ppm	0.5413 ppm	0.5206 ppm	0.5052 ppm	0.1251 ppm
Concentration RSD	4.1 %	0.4 %	3.6 %	0.2 %	0.3 %	0.2 %	0.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	10.1101 ppm	0.9631 ppm	1.1770 ppm	1.0211 ppm	0.1177 ppm	0.5651 ppm	0.5543 ppm
Concentration per Run 1	10.1346 ppm	0.9636 ppm	1.1986 ppm	1.0209 ppm	0.1168 ppm	0.5654 ppm	0.5551 ppm
Concentration per Run 2	10.0913 ppm	0.9661 ppm	1.2048 ppm	1.0206 ppm	0.1184 ppm	0.5646 ppm	0.5541 ppm
Concentration per Run 3	10.1043 ppm	0.9596 ppm	1.1278 ppm	1.0217 ppm	0.1180 ppm	0.5652 ppm	0.5538 ppm
Concentration RSD	0.2 %	0.3 %	3.6 %	0.1 %	0.7 %	0.1 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.5755 %	93.6865 %	91.7585 %	100.3329 %	84.3871 %	92.4997 %	0.0016 ppm
Concentration per Run 1	100.8027 %	93.8431 %	91.5377 %	99.0547 %	84.2069 %	92.6252 %	0.0023 ppm
Concentration per Run 2	98.9057 %	93.8143 %	92.0997 %	97.5905 %	84.5716 %	92.6296 %	0.0012 ppm
Concentration per Run 3	105.0180 %	93.4022 %	91.6380 %	104.3534 %	84.3828 %	92.2444 %	0.0014 ppm
Concentration RSD	3.1 %	0.3 %	0.3 %	3.5 %	0.2 %	0.2 %	34.3 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: WG2084192-4 WG2084192
Analysis started at: 6/27/2025 12:46:17 PM
Comments: <Comment>
Rack: 1
Vial: 24

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0587 ppm	2.5085 ppm	0.1235 ppm	1.0213 ppm	2.3325 ppm	0.0573 ppm	36.8506 ppm
Concentration per Run 1	0.0588 ppm	2.5055 ppm	0.1245 ppm	1.0257 ppm	2.3773 ppm	0.0576 ppm	37.1243 ppm
Concentration per Run 2	0.0584 ppm	2.5026 ppm	0.1228 ppm	1.0193 ppm	2.3040 ppm	0.0571 ppm	36.9672 ppm
Concentration per Run 3	0.0589 ppm	2.5174 ppm	0.1234 ppm	1.0190 ppm	2.3163 ppm	0.0571 ppm	36.4603 ppm
Concentration RSD	0.5 %	0.3 %	0.7 %	0.4 %	1.7 %	0.5 %	0.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0519 ppm	0.5487 ppm	0.2212 ppm	0.2863 ppm	1.1775 ppm	14.1508 ppm	16.5807 ppm
Concentration per Run 1	0.0518 ppm	0.5499 ppm	0.2241 ppm	0.2849 ppm	1.1847 ppm	13.9079 ppm	16.6607 ppm
Concentration per Run 2	0.0522 ppm	0.5491 ppm	0.2201 ppm	0.2872 ppm	1.1775 ppm	13.9901 ppm	16.5712 ppm
Concentration per Run 3	0.0519 ppm	0.5472 ppm	0.2194 ppm	0.2867 ppm	1.1703 ppm	14.5545 ppm	16.5102 ppm
Concentration RSD	0.4 %	0.3 %	1.1 %	0.4 %	0.6 %	2.5 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5673 ppm	0.9671 ppm	36.4794 ppm	0.5398 ppm	0.5198 ppm	0.5055 ppm	0.1238 ppm
Concentration per Run 1	0.5698 ppm	0.9673 ppm	36.0903 ppm	0.5406 ppm	0.5198 ppm	0.5065 ppm	0.1232 ppm
Concentration per Run 2	0.5684 ppm	0.9670 ppm	36.0414 ppm	0.5407 ppm	0.5203 ppm	0.5054 ppm	0.1245 ppm
Concentration per Run 3	0.5636 ppm	0.9668 ppm	37.3066 ppm	0.5380 ppm	0.5193 ppm	0.5045 ppm	0.1238 ppm
Concentration RSD	0.6 %	0.0 %	2.0 %	0.3 %	0.1 %	0.2 %	0.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	10.1006 ppm	0.9586 ppm	1.2170 ppm	1.0220 ppm	0.1184 ppm	0.5662 ppm	0.5501 ppm
Concentration per Run 1	10.1239 ppm	0.9598 ppm	1.2169 ppm	1.0299 ppm	0.1195 ppm	0.5711 ppm	0.5495 ppm
Concentration per Run 2	10.1191 ppm	0.9598 ppm	1.2148 ppm	1.0198 ppm	0.1164 ppm	0.5647 ppm	0.5508 ppm
Concentration per Run 3	10.0590 ppm	0.9561 ppm	1.2191 ppm	1.0163 ppm	0.1192 ppm	0.5628 ppm	0.5499 ppm
Concentration RSD	0.4 %	0.2 %	0.2 %	0.7 %	1.4 %	0.8 %	0.1 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.6601 %	93.6532 %	91.1710 %	97.7857 %	83.5882 %	92.1865 %	0.0016 ppm
Concentration per Run 1	100.2702 %	93.5626 %	90.7667 %	97.9127 %	83.3731 %	91.8918 %	0.0016 ppm
Concentration per Run 2	99.5366 %	93.5462 %	91.1698 %	97.6974 %	83.4373 %	92.1595 %	0.0014 ppm
Concentration per Run 3	99.1736 %	93.8507 %	91.5765 %	97.7469 %	83.9541 %	92.5083 %	0.0017 ppm
Concentration RSD	0.6 %	0.2 %	0.4 %	0.1 %	0.4 %	0.3 %	9.0 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: WG2084192-5 WG2084192
Analysis started at: 6/27/2025 12:52:42 PM
Comments: <Comment>
Rack: 1
Vial: 25

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0532 ppm	2.2602 ppm	0.1150 ppm	0.9637 ppm	2.1245 ppm	0.0526 ppm	36.0337 ppm
Concentration per Run 1	0.0535 ppm	2.2924 ppm	0.1157 ppm	0.9678 ppm	2.1147 ppm	0.0523 ppm	35.5157 ppm
Concentration per Run 2	0.0530 ppm	2.2486 ppm	0.1153 ppm	0.9607 ppm	2.1415 ppm	0.0528 ppm	36.3182 ppm
Concentration per Run 3	0.0531 ppm	2.2397 ppm	0.1140 ppm	0.9625 ppm	2.1174 ppm	0.0527 ppm	36.2671 ppm
Concentration RSD	0.5 %	1.2 %	0.8 %	0.4 %	0.7 %	0.5 %	1.2 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0475 ppm	0.5013 ppm	0.2004 ppm	0.2626 ppm	1.0919 ppm	13.0105 ppm	15.8398 ppm
Concentration per Run 1	0.0478 ppm	0.5050 ppm	0.1990 ppm	0.2635 ppm	1.0835 ppm	13.5469 ppm	15.8362 ppm
Concentration per Run 2	0.0475 ppm	0.4987 ppm	0.2018 ppm	0.2622 ppm	1.0997 ppm	12.7062 ppm	15.8362 ppm
Concentration per Run 3	0.0474 ppm	0.5002 ppm	0.2005 ppm	0.2622 ppm	1.0926 ppm	12.7783 ppm	15.8470 ppm
Concentration RSD	0.5 %	0.7 %	0.7 %	0.3 %	0.7 %	3.6 %	0.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5225 ppm	0.9100 ppm	34.1173 ppm	0.4960 ppm	0.4883 ppm	0.4633 ppm	0.1169 ppm
Concentration per Run 1	0.5178 ppm	0.9125 ppm	35.7674 ppm	0.4966 ppm	0.4907 ppm	0.4634 ppm	0.1175 ppm
Concentration per Run 2	0.5258 ppm	0.9073 ppm	33.2817 ppm	0.4968 ppm	0.4872 ppm	0.4637 ppm	0.1163 ppm
Concentration per Run 3	0.5240 ppm	0.9103 ppm	33.3027 ppm	0.4945 ppm	0.4871 ppm	0.4627 ppm	0.1169 ppm
Concentration RSD	0.8 %	0.3 %	4.2 %	0.3 %	0.4 %	0.1 %	0.5 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	9.7255 ppm	0.9134 ppm	1.1466 ppm	0.9539 ppm	0.1102 ppm	0.5158 ppm	0.5029 ppm
Concentration per Run 1	9.7772 ppm	0.9190 ppm	1.1512 ppm	0.9526 ppm	0.1112 ppm	0.5152 ppm	0.5046 ppm
Concentration per Run 2	9.6865 ppm	0.9114 ppm	1.1453 ppm	0.9542 ppm	0.1082 ppm	0.5167 ppm	0.5025 ppm
Concentration per Run 3	9.7129 ppm	0.9100 ppm	1.1434 ppm	0.9548 ppm	0.1112 ppm	0.5155 ppm	0.5014 ppm
Concentration RSD	0.5 %	0.5 %	0.4 %	0.1 %	1.5 %	0.1 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.5986 %	93.2525 %	91.0563 %	97.6114 %	83.5253 %	92.2369 %	0.0016 ppm
Concentration per Run 1	100.7123 %	93.0209 %	91.0076 %	98.0915 %	83.2370 %	91.9569 %	0.0016 ppm
Concentration per Run 2	99.5732 %	93.4497 %	91.1472 %	97.6608 %	83.8334 %	92.5105 %	0.0018 ppm
Concentration per Run 3	98.5104 %	93.2870 %	91.0139 %	97.0820 %	83.5055 %	92.2434 %	0.0012 ppm
Concentration RSD	1.1 %	0.2 %	0.1 %	0.5 %	0.4 %	0.3 %	19.4 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: WG2084192-6D5 WG2084192
 Analysis started at: 6/27/2025 12:59:04 PM
 Comments: <Comment>
 Rack: 1
 Vial: 26

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0003 ppm	0.0054 ppm	-0.0005 ppm	0.0033 ppm	0.0031 ppm	0.0000 ppm	5.4277 ppm
Concentration per Run 1	-0.0004 ppm	0.0068 ppm	-0.0004 ppm	0.0032 ppm	0.0031 ppm	0.0000 ppm	5.5263 ppm
Concentration per Run 2	-0.0002 ppm	0.0057 ppm	-0.0003 ppm	0.0033 ppm	0.0031 ppm	0.0000 ppm	5.3964 ppm
Concentration per Run 3	-0.0002 ppm	0.0037 ppm	-0.0008 ppm	0.0035 ppm	0.0031 ppm	0.0000 ppm	5.3605 ppm
Concentration RSD	40.7 %	28.5 %	50.6 %	4.3 %	1.0 %	41.1 %	1.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	-0.0001 ppm	-0.0001 ppm	0.0003 ppm	0.0093 ppm	0.5379 ppm	1.3177 ppm
Concentration per Run 1	0.0000 ppm	-0.0003 ppm	0.0001 ppm	0.0002 ppm	0.0098 ppm	0.5281 ppm	1.3208 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	-0.0001 ppm	0.0003 ppm	0.0078 ppm	0.5503 ppm	1.3220 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	-0.0001 ppm	0.0002 ppm	0.0101 ppm	0.5352 ppm	1.3103 ppm
Concentration RSD	29.9 %	98.6 %	198.0 %	21.0 %	13.3 %	2.1 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0007 ppm	0.0027 ppm	4.5697 ppm	-0.0002 ppm	0.0001 ppm	0.0031 ppm	0.0002 ppm
Concentration per Run 1	0.0006 ppm	0.0030 ppm	4.4954 ppm	-0.0001 ppm	-0.0001 ppm	0.0041 ppm	0.0009 ppm
Concentration per Run 2	0.0007 ppm	0.0027 ppm	4.5938 ppm	-0.0003 ppm	0.0000 ppm	0.0024 ppm	-0.0006 ppm
Concentration per Run 3	0.0007 ppm	0.0023 ppm	4.6198 ppm	-0.0001 ppm	0.0005 ppm	0.0029 ppm	0.0002 ppm
Concentration RSD	3.6 %	12.8 %	1.4 %	60.2 %	290.9 %	27.9 %	384.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.7169 ppm	0.0024 ppm	0.0316 ppm	0.0002 ppm	-0.0009 ppm	0.0001 ppm	0.0003 ppm
Concentration per Run 1	1.7211 ppm	0.0025 ppm	0.0315 ppm	0.0002 ppm	-0.0016 ppm	0.0001 ppm	0.0003 ppm
Concentration per Run 2	1.7012 ppm	0.0019 ppm	0.0317 ppm	0.0004 ppm	-0.0007 ppm	0.0002 ppm	0.0002 ppm
Concentration per Run 3	1.7285 ppm	0.0027 ppm	0.0317 ppm	0.0000 ppm	-0.0002 ppm	0.0001 ppm	0.0002 ppm
Concentration RSD	0.8 %	18.2 %	0.3 %	98.7 %	83.9 %	27.9 %	25.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.3510 %	97.9735 %	95.9624 %	99.1512 %	92.4655 %	97.3379 %	0.0004 ppm
Concentration per Run 1	101.5667 %	98.5667 %	96.3413 %	98.6342 %	92.5414 %	97.6759 %	0.0003 ppm
Concentration per Run 2	101.4740 %	97.9943 %	96.6488 %	99.4231 %	93.2169 %	97.3930 %	0.0004 ppm
Concentration per Run 3	101.0123 %	97.3594 %	94.8972 %	99.3964 %	91.6381 %	96.9449 %	0.0004 ppm
Concentration RSD	0.3 %	0.6 %	1.0 %	0.5 %	0.9 %	0.4 %	21.1 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: WG2084192-3 WG2084192
Analysis started at: 6/27/2025 1:05:39 PM
Comments: Na skip rr
Rack: 1
Vial: 29

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0580 ppm	2.4953 ppm	0.1218 ppm	1.0233 ppm	2.3469 ppm	0.0573 ppm	37.2222 ppm
Concentration per Run 1	0.0580 ppm	2.5331 ppm	0.1232 ppm	1.0210 ppm	2.3648 ppm	0.0572 ppm	36.9853 ppm
Concentration per Run 2	0.0581 ppm	2.4930 ppm	0.1208 ppm	1.0218 ppm	2.3394 ppm	0.0575 ppm	37.3576 ppm
Concentration per Run 3	0.0580 ppm	2.4599 ppm	0.1215 ppm	1.0271 ppm	2.3365 ppm	0.0573 ppm	37.3239 ppm
Concentration RSD	0.1 %	1.5 %	1.0 %	0.3 %	0.7 %	0.2 %	0.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0515 ppm	0.5480 ppm	0.2213 ppm	0.2863 ppm	1.1799 ppm	13.8748 ppm	16.4871 ppm
Concentration per Run 1	0.0514 ppm	0.5475 ppm	0.2222 ppm	0.2847 ppm	1.1815 ppm	14.3966 ppm	16.4788 ppm
Concentration per Run 2	0.0511 ppm	0.5464 ppm	0.2211 ppm	0.2871 ppm	1.1816 ppm	13.7184 ppm	16.4888 ppm
Concentration per Run 3	0.0519 ppm	0.5500 ppm	0.2206 ppm	0.2871 ppm	1.1766 ppm	13.5095 ppm	16.4939 ppm
Concentration RSD	0.8 %	0.3 %	0.4 %	0.5 %	0.2 %	3.3 %	0.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5721 ppm	0.9633 ppm	35.7926 ppm	0.5385 ppm	0.5198 ppm	0.5080 ppm	0.1245 ppm
Concentration per Run 1	0.5714 ppm	0.9613 ppm	37.3383 ppm	0.5387 ppm	0.5181 ppm	0.5043 ppm	0.1262 ppm
Concentration per Run 2	0.5730 ppm	0.9590 ppm	35.4212 ppm	0.5388 ppm	0.5209 ppm	0.5103 ppm	0.1247 ppm
Concentration per Run 3	0.5719 ppm	0.9697 ppm	34.6182 ppm	0.5379 ppm	0.5203 ppm	0.5094 ppm	0.1226 ppm
Concentration RSD	0.1 %	0.6 %	3.9 %	0.1 %	0.3 %	0.6 %	1.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	10.1391 ppm	0.9549 ppm	1.2276 ppm	1.0204 ppm	0.1171 ppm	0.5626 ppm	0.5496 ppm
Concentration per Run 1	10.1242 ppm	0.9527 ppm	1.2393 ppm	1.0222 ppm	0.1171 ppm	0.5641 ppm	0.5502 ppm
Concentration per Run 2	10.1812 ppm	0.9574 ppm	1.2264 ppm	1.0200 ppm	0.1177 ppm	0.5630 ppm	0.5472 ppm
Concentration per Run 3	10.1118 ppm	0.9547 ppm	1.2171 ppm	1.0190 ppm	0.1164 ppm	0.5608 ppm	0.5514 ppm
Concentration RSD	0.4 %	0.2 %	0.9 %	0.2 %	0.5 %	0.3 %	0.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	99.5243 %	93.1183 %	90.3694 %	97.1421 %	82.9910 %	91.7489 %	0.0016 ppm
Concentration per Run 1	100.2782 %	93.5332 %	90.7155 %	97.1626 %	83.3703 %	92.0774 %	0.0016 ppm
Concentration per Run 2	99.1919 %	92.7144 %	89.3317 %	96.9618 %	82.2351 %	91.3832 %	0.0015 ppm
Concentration per Run 3	99.1028 %	93.1072 %	91.0610 %	97.3019 %	83.3675 %	91.7863 %	0.0019 ppm
Concentration RSD	0.7 %	0.4 %	1.0 %	0.2 %	0.8 %	0.4 %	11.9 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: CCV
Analysis started at: 6/27/2025 1:12:02 PM
Comments: <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.4937 ppm	0.5018 ppm	0.4696 ppm	0.4925 ppm	0.4974 ppm	0.4997 ppm	0.5009 ppm
Concentration per Run 1	0.4950 ppm	0.4974 ppm	0.4681 ppm	0.4926 ppm	0.4936 ppm	0.4988 ppm	0.5001 ppm
Concentration per Run 2	0.4924 ppm	0.4996 ppm	0.4724 ppm	0.4930 ppm	0.4972 ppm	0.4997 ppm	0.5047 ppm
Concentration per Run 3	0.4938 ppm	0.5085 ppm	0.4684 ppm	0.4917 ppm	0.5013 ppm	0.5005 ppm	0.4980 ppm
Recovery Percentage 1	98.746 %	100.361 %	93.929 %	98.491 %	99.471 %	99.933 %	100.190 %
Concentration RSD	0.3 %	1.2 %	0.5 %	0.1 %	0.8 %	0.2 %	0.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4726 ppm	0.4999 ppm	0.5010 ppm	0.4920 ppm	0.5000 ppm	5.0944 ppm	0.5069 ppm
Concentration per Run 1	0.4738 ppm	0.5006 ppm	0.5021 ppm	0.4914 ppm	0.4980 ppm	5.0236 ppm	0.5045 ppm
Concentration per Run 2	0.4733 ppm	0.5007 ppm	0.4962 ppm	0.4960 ppm	0.4989 ppm	5.0636 ppm	0.5060 ppm
Concentration per Run 3	0.4708 ppm	0.4985 ppm	0.5046 ppm	0.4885 ppm	0.5032 ppm	5.1958 ppm	0.5103 ppm
Recovery Percentage 1	94.528 %	99.989 %	100.196 %	98.393 %	100.006 %	101.887 %	101.378 %
Concentration RSD	0.3 %	0.3 %	0.9 %	0.8 %	0.6 %	1.8 %	0.6 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5030 ppm	0.4856 ppm	10.2260 ppm	0.4837 ppm	0.4893 ppm	0.4872 ppm	0.4930 ppm
Concentration per Run 1	0.5036 ppm	0.4868 ppm	10.0613 ppm	0.4834 ppm	0.4898 ppm	0.4871 ppm	0.4922 ppm
Concentration per Run 2	0.5040 ppm	0.4860 ppm	10.1670 ppm	0.4844 ppm	0.4880 ppm	0.4873 ppm	0.4936 ppm
Concentration per Run 3	0.5014 ppm	0.4840 ppm	10.4496 ppm	0.4832 ppm	0.4900 ppm	0.4872 ppm	0.4931 ppm
Recovery Percentage 1	100.596 %	97.114 %	102.260 %	96.734 %	97.854 %	97.440 %	98.596 %
Concentration RSD	0.3 %	0.3 %	2.0 %	0.1 %	0.2 %	0.0 %	0.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.3637 ppm	0.4657 ppm	0.5158 ppm	0.4973 ppm	0.4973 ppm	0.4972 ppm	0.4976 ppm
Concentration per Run 1	5.3783 ppm	0.4676 ppm	0.5121 ppm	0.4976 ppm	0.4991 ppm	0.4979 ppm	0.4986 ppm
Concentration per Run 2	5.3516 ppm	0.4639 ppm	0.5155 ppm	0.4965 ppm	0.4961 ppm	0.4945 ppm	0.4977 ppm
Concentration per Run 3	5.3612 ppm	0.4656 ppm	0.5197 ppm	0.4977 ppm	0.4967 ppm	0.4991 ppm	0.4967 ppm
Recovery Percentage 1	102.165 %	93.144 %	103.158 %	99.458 %	99.455 %	99.437 %	99.528 %
Concentration RSD	0.3 %	0.4 %	0.7 %	0.1 %	0.3 %	0.5 %	0.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	100.7079 %	97.4916 %	94.6507 %	100.9566 %	88.8524 %	97.4753 %	0.5322 ppm
Concentration per Run 1	101.3285 %	97.5016 %	94.7931 %	101.5508 %	88.8092 %	97.4942 %	0.5221 ppm
Concentration per Run 2	100.5755 %	97.1591 %	94.2231 %	100.9070 %	88.8627 %	97.1113 %	0.5297 ppm
Concentration per Run 3	100.2197 %	97.8142 %	94.9360 %	100.4120 %	88.8852 %	97.8204 %	0.5448 ppm
Recovery Percentage 1							106.441 %
Concentration RSD	0.6 %	0.3 %	0.4 %	0.6 %	0.0 %	0.4 %	2.2 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: CCB
Analysis started at: 6/27/2025 1:18:22 PM
Comments: <Comment>
Rack: 0
Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0014 ppm	-0.0012 ppm	0.0023 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 1	-0.0002 ppm	0.0011 ppm	-0.0007 ppm	0.0022 ppm	-0.0001 ppm	0.0000 ppm	-0.0004 ppm
Concentration per Run 2	0.0001 ppm	0.0025 ppm	-0.0017 ppm	0.0022 ppm	-0.0001 ppm	0.0000 ppm	0.0009 ppm
Concentration per Run 3	-0.0004 ppm	0.0005 ppm	-0.0010 ppm	0.0025 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm
Recovery Percentage 1	-2.175 %	1.372 %	-23.142 %	7.657 %	-0.482 %	0.206 %	0.280 %
Concentration RSD	141.9 %	76.0 %	46.4 %	8.0 %	53.4 %	145.8 %	247.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0002 ppm	0.0007 ppm
Concentration per Run 1	0.0001 ppm	0.0000 ppm	0.0004 ppm	0.0002 ppm	0.0003 ppm	0.0001 ppm	0.0023 ppm
Concentration per Run 2	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm	0.0048 ppm	0.0008 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	-0.0002 ppm	0.0001 ppm	0.0007 ppm	-0.0042 ppm	-0.0010 ppm
Recovery Percentage 1	1.478 %	-0.525 %	0.748 %	0.835 %	0.546 %	0.010 %	0.720 %
Concentration RSD	37.9 %	118.0 %	358.9 %	136.4 %	167.2 %	1,900.7 %	227.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	0.0012 ppm	0.0050 ppm	-0.0002 ppm	-0.0002 ppm	0.0008 ppm	0.0002 ppm
Concentration per Run 1	0.0002 ppm	0.0012 ppm	0.0046 ppm	-0.0002 ppm	-0.0003 ppm	0.0008 ppm	0.0013 ppm
Concentration per Run 2	0.0002 ppm	0.0012 ppm	0.0051 ppm	0.0000 ppm	0.0002 ppm	0.0009 ppm	-0.0011 ppm
Concentration per Run 3	0.0000 ppm	0.0011 ppm	0.0051 ppm	-0.0004 ppm	-0.0006 ppm	0.0007 ppm	0.0003 ppm
Recovery Percentage 1	0.891 %	2.359 %	0.248 %	-0.719 %	-2.202 %	1.587 %	1.665 %
Concentration RSD	127.0 %	5.8 %	5.4 %	90.5 %	179.4 %	11.7 %	721.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0011 ppm	0.0010 ppm	0.0000 ppm	0.0001 ppm	-0.0011 ppm	0.0001 ppm	-0.0002 ppm
Concentration per Run 1	0.0015 ppm	0.0009 ppm	-0.0001 ppm	0.0002 ppm	-0.0017 ppm	0.0002 ppm	-0.0002 ppm
Concentration per Run 2	0.0009 ppm	0.0010 ppm	0.0000 ppm	0.0000 ppm	-0.0008 ppm	0.0002 ppm	-0.0003 ppm
Concentration per Run 3	0.0009 ppm	0.0012 ppm	0.0000 ppm	0.0001 ppm	-0.0009 ppm	0.0000 ppm	-0.0003 ppm
Recovery Percentage 1	0.220 %	2.098 %	-0.458 %	1.106 %	-5.602 %	1.296 %	-4.884 %
Concentration RSD	32.1 %	14.7 %	50.1 %	81.1 %	43.3 %	83.7 %	24.8 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	102.8472 %	99.4898 %	96.1321 %	100.1224 %	92.2725 %	98.2465 %	0.0001 ppm
Concentration per Run 1	103.6854 %	99.6762 %	96.6005 %	100.5531 %	92.5083 %	98.2803 %	0.0001 ppm
Concentration per Run 2	102.2894 %	99.7438 %	96.8422 %	99.8595 %	92.9455 %	98.5529 %	0.0004 ppm
Concentration per Run 3	102.5669 %	99.0494 %	94.9537 %	99.9545 %	91.3636 %	97.9063 %	-0.0002 ppm
Recovery Percentage 1							1.257 %
Concentration RSD	0.7 %	0.4 %	1.1 %	0.4 %	0.9 %	0.3 %	222.4 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: WG2084309-1 WG2084309
Analysis started at: 6/27/2025 1:31:10 PM
Comments: <Comment>
Rack: 1
Vial: 31

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0001 ppm	0.1510 ppm	-0.0027 ppm	0.0023 ppm	0.0011 ppm	0.0000 ppm	0.0668 ppm
Concentration per Run 1	-0.0001 ppm	0.1495 ppm	-0.0033 ppm	0.0023 ppm	0.0010 ppm	0.0000 ppm	0.0663 ppm
Concentration per Run 2	0.0001 ppm	0.1519 ppm	-0.0035 ppm	0.0024 ppm	0.0011 ppm	0.0001 ppm	0.0656 ppm
Concentration per Run 3	-0.0001 ppm	0.1518 ppm	-0.0013 ppm	0.0023 ppm	0.0011 ppm	0.0000 ppm	0.0685 ppm
Recovery Percentage 1	-0.785 %	151.043 %	-53.498 %	7.703 %	10.946 %	0.712 %	66.772 %
Concentration RSD	215.7 %	0.9 %	45.9 %	2.2 %	5.0 %	87.6 %	2.3 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0002 ppm	-0.0003 ppm	0.0006 ppm	0.0009 ppm	0.3990 ppm	0.0238 ppm	0.0559 ppm
Concentration per Run 1	0.0002 ppm	-0.0003 ppm	0.0008 ppm	0.0009 ppm	0.3984 ppm	0.0286 ppm	0.0569 ppm
Concentration per Run 2	0.0002 ppm	-0.0004 ppm	0.0003 ppm	0.0009 ppm	0.3982 ppm	0.0238 ppm	0.0539 ppm
Concentration per Run 3	0.0002 ppm	-0.0002 ppm	0.0006 ppm	0.0010 ppm	0.4004 ppm	0.0191 ppm	0.0570 ppm
Recovery Percentage 1	5.076 %	-1.575 %	5.785 %	9.194 %	798.000 %	0.953 %	55.914 %
Concentration RSD	11.4 %	25.4 %	43.0 %	12.2 %	0.3 %	20.0 %	3.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0059 ppm	0.0004 ppm	0.0318 ppm	0.0000 ppm	-0.0009 ppm	0.0001 ppm	0.0023 ppm
Concentration per Run 1	0.0059 ppm	0.0003 ppm	0.0340 ppm	0.0000 ppm	-0.0005 ppm	0.0001 ppm	0.0019 ppm
Concentration per Run 2	0.0060 ppm	0.0005 ppm	0.0298 ppm	0.0001 ppm	-0.0009 ppm	0.0000 ppm	0.0021 ppm
Concentration per Run 3	0.0060 ppm	0.0004 ppm	0.0317 ppm	-0.0001 ppm	-0.0011 ppm	0.0002 ppm	0.0030 ppm
Recovery Percentage 1	59.232 %	0.852 %	1.591 %	-0.021 %	-8.504 %	0.187 %	23.283 %
Concentration RSD	1.1 %	29.9 %	6.5 %	1,518.4 %	39.5 %	140.9 %	24.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0363 ppm	0.0097 ppm	0.0001 ppm	0.0008 ppm	-0.0030 ppm	0.0003 ppm	0.0069 ppm
Concentration per Run 1	0.0351 ppm	0.0101 ppm	0.0001 ppm	0.0007 ppm	-0.0029 ppm	0.0004 ppm	0.0068 ppm
Concentration per Run 2	0.0361 ppm	0.0095 ppm	0.0001 ppm	0.0008 ppm	-0.0025 ppm	0.0001 ppm	0.0069 ppm
Concentration per Run 3	0.0377 ppm	0.0094 ppm	0.0001 ppm	0.0007 ppm	-0.0035 ppm	0.0002 ppm	0.0070 ppm
Recovery Percentage 1	7.266 %	19.323 %	0.889 %	7.515 %	-14.817 %	2.511 %	137.463 %
Concentration RSD	3.6 %	3.7 %	37.6 %	4.2 %	17.4 %	60.2 %	1.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	103.3235 %	102.3876 %	97.9985 %	102.1024 %	90.7007 %	101.5445 %	0.0004 ppm
Concentration per Run 1	104.1888 %	102.2648 %	98.1889 %	102.6267 %	90.7463 %	101.4093 %	0.0005 ppm
Concentration per Run 2	103.2405 %	102.7333 %	98.2494 %	102.1754 %	90.9384 %	101.8684 %	0.0007 ppm
Concentration per Run 3	102.5412 %	102.1646 %	97.5571 %	101.5051 %	90.4172 %	101.3558 %	0.0001 ppm
Recovery Percentage 1							3.947 %
Concentration RSD	0.8 %	0.3 %	0.4 %	0.6 %	0.3 %	0.3 %	73.7 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: WG2084309-2D2 WG2084309
Analysis started at: 6/27/2025 1:37:50 PM
Comments: <Comment>
Rack: 1
Vial: 32

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0511 ppm	2.2600 ppm	0.1135 ppm	0.9280 ppm	2.1348 ppm	0.0540 ppm	10.7499 ppm
Concentration per Run 1	0.0513 ppm	2.2376 ppm	0.1179 ppm	0.9396 ppm	2.1300 ppm	0.0541 ppm	10.8437 ppm
Concentration per Run 2	0.0510 ppm	2.2798 ppm	0.1121 ppm	0.9246 ppm	2.1306 ppm	0.0541 ppm	10.7374 ppm
Concentration per Run 3	0.0510 ppm	2.2626 ppm	0.1105 ppm	0.9198 ppm	2.1438 ppm	0.0538 ppm	10.6686 ppm
Concentration RSD	0.3 %	0.9 %	3.4 %	1.1 %	0.4 %	0.3 %	0.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0502 ppm	0.4886 ppm	0.2030 ppm	0.2554 ppm	1.1104 ppm	11.2974 ppm	10.0747 ppm
Concentration per Run 1	0.0509 ppm	0.4950 ppm	0.2036 ppm	0.2570 ppm	1.1162 ppm	10.9706 ppm	10.1552 ppm
Concentration per Run 2	0.0498 ppm	0.4860 ppm	0.2044 ppm	0.2536 ppm	1.1088 ppm	11.4805 ppm	10.0477 ppm
Concentration per Run 3	0.0498 ppm	0.4847 ppm	0.2009 ppm	0.2555 ppm	1.1061 ppm	11.4409 ppm	10.0211 ppm
Concentration RSD	1.2 %	1.2 %	0.9 %	0.7 %	0.5 %	2.5 %	0.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5390 ppm	0.9470 ppm	11.8901 ppm	0.4809 ppm	0.5128 ppm	0.4753 ppm	0.1153 ppm
Concentration per Run 1	0.5414 ppm	0.9592 ppm	11.5118 ppm	0.4898 ppm	0.5219 ppm	0.4834 ppm	0.1173 ppm
Concentration per Run 2	0.5385 ppm	0.9419 ppm	12.1545 ppm	0.4795 ppm	0.5133 ppm	0.4770 ppm	0.1164 ppm
Concentration per Run 3	0.5372 ppm	0.9399 ppm	12.0039 ppm	0.4733 ppm	0.5032 ppm	0.4656 ppm	0.1123 ppm
Concentration RSD	0.4 %	1.1 %	2.8 %	1.7 %	1.8 %	1.9 %	2.3 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	1.5965 ppm	0.9290 ppm	1.1100 ppm	1.0161 ppm	0.1140 ppm	0.5012 ppm	0.4837 ppm
Concentration per Run 1	1.6276 ppm	0.9488 ppm	1.1050 ppm	1.0223 ppm	0.1157 ppm	0.5041 ppm	0.4909 ppm
Concentration per Run 2	1.5986 ppm	0.9262 ppm	1.1168 ppm	1.0162 ppm	0.1146 ppm	0.5018 ppm	0.4830 ppm
Concentration per Run 3	1.5635 ppm	0.9121 ppm	1.1083 ppm	1.0099 ppm	0.1118 ppm	0.4978 ppm	0.4771 ppm
Concentration RSD	2.0 %	2.0 %	0.5 %	0.6 %	1.7 %	0.6 %	1.4 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	101.3882 %	98.3898 %	95.3655 %	100.4451 %	87.3617 %	97.7586 %	0.0002 ppm
Concentration per Run 1	102.0561 %	98.4525 %	95.1915 %	100.9645 %	86.9595 %	97.7126 %	0.0000 ppm
Concentration per Run 2	101.5371 %	98.5874 %	95.0092 %	100.2780 %	87.2834 %	98.1045 %	0.0003 ppm
Concentration per Run 3	100.5714 %	98.1294 %	95.8959 %	100.0929 %	87.8422 %	97.4586 %	0.0002 ppm
Concentration RSD	0.7 %	0.2 %	0.5 %	0.5 %	0.5 %	0.3 %	117.0 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: L2539000-01 WG2084038
 Analysis started at: 6/27/2025 1:44:15 PM
 Comments: <Comment>
 Rack: 1
 Vial: 30

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0270 ppm	0.0009 ppm	0.1013 ppm	0.0615 ppm	0.0000 ppm	66.2131 ppm
Concentration per Run 1	-0.0002 ppm	0.0303 ppm	0.0011 ppm	0.1013 ppm	0.0605 ppm	0.0000 ppm	65.0736 ppm
Concentration per Run 2	-0.0001 ppm	0.0266 ppm	0.0014 ppm	0.1014 ppm	0.0620 ppm	0.0000 ppm	67.1188 ppm
Concentration per Run 3	-0.0004 ppm	0.0240 ppm	0.0000 ppm	0.1012 ppm	0.0619 ppm	0.0000 ppm	66.4470 ppm
Concentration RSD	62.7 %	11.6 %	86.6 %	0.1 %	1.3 %	80.8 %	1.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0002 ppm	0.0003 ppm	0.0002 ppm	0.0038 ppm	0.3935 ppm	4.5123 ppm	25.8294 ppm
Concentration per Run 1	0.0002 ppm	0.0003 ppm	0.0003 ppm	0.0037 ppm	0.3852 ppm	4.5568 ppm	25.8278 ppm
Concentration per Run 2	0.0001 ppm	0.0002 ppm	0.0002 ppm	0.0039 ppm	0.3985 ppm	4.4660 ppm	25.8041 ppm
Concentration per Run 3	0.0002 ppm	0.0004 ppm	0.0001 ppm	0.0038 ppm	0.3968 ppm	4.5141 ppm	25.8564 ppm
Concentration RSD	20.9 %	37.0 %	52.3 %	2.0 %	1.8 %	1.0 %	0.1 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.2912 ppm	0.0018 ppm	75.9004 ppm	0.0027 ppm	-0.0009 ppm	0.0007 ppm	-0.0005 ppm
Concentration per Run 1	0.2858 ppm	0.0018 ppm	76.8612 ppm	0.0027 ppm	-0.0009 ppm	0.0013 ppm	-0.0015 ppm
Concentration per Run 2	0.2941 ppm	0.0019 ppm	75.1163 ppm	0.0027 ppm	-0.0010 ppm	0.0003 ppm	-0.0017 ppm
Concentration per Run 3	0.2937 ppm	0.0018 ppm	75.7238 ppm	0.0026 ppm	-0.0009 ppm	0.0004 ppm	0.0017 ppm
Concentration RSD	1.6 %	5.3 %	1.2 %	2.5 %	5.3 %	77.2 %	361.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	10.8514 ppm	0.0005 ppm	0.2226 ppm	0.0008 ppm	-0.0002 ppm	0.0011 ppm	0.0304 ppm
Concentration per Run 1	10.9694 ppm	-0.0003 ppm	0.2190 ppm	0.0010 ppm	-0.0001 ppm	0.0011 ppm	0.0309 ppm
Concentration per Run 2	10.8257 ppm	0.0004 ppm	0.2246 ppm	0.0005 ppm	0.0002 ppm	0.0011 ppm	0.0303 ppm
Concentration per Run 3	10.7591 ppm	0.0014 ppm	0.2243 ppm	0.0009 ppm	-0.0009 ppm	0.0011 ppm	0.0300 ppm
Concentration RSD	1.0 %	168.9 %	1.4 %	29.4 %	233.9 %	2.7 %	1.5 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	102.5249 %	96.0584 %	96.0399 %	99.6948 %	85.9629 %	94.6240 %	0.0036 ppm
Concentration per Run 1	104.8631 %	96.4872 %	95.2255 %	101.7252 %	85.1963 %	94.8433 %	0.0038 ppm
Concentration per Run 2	101.2891 %	95.8271 %	95.9607 %	98.5243 %	85.8537 %	94.5560 %	0.0032 ppm
Concentration per Run 3	101.4226 %	95.8609 %	96.9336 %	98.8348 %	86.8386 %	94.4727 %	0.0039 ppm
Concentration RSD	2.0 %	0.4 %	0.9 %	1.8 %	1.0 %	0.2 %	10.2 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: L2539251-03D2 WG2084309
 Analysis started at: 6/27/2025 1:50:51 PM
 Comments: <Comment>
 Rack: 1
 Vial: 33

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0001 ppm	102.5525 ppm	0.0186 ppm	0.0701 ppm	0.6795 ppm	0.0031 ppm	141.0861 ppm
Concentration per Run 1	0.0000 ppm	102.1439 ppm	0.0207 ppm	0.0756 ppm	0.6770 ppm	0.0032 ppm	140.5084 ppm
Concentration per Run 2	0.0000 ppm	102.3729 ppm	0.0162 ppm	0.0717 ppm	0.6799 ppm	0.0031 ppm	142.4945 ppm
Concentration per Run 3	0.0002 ppm	103.1408 ppm	0.0190 ppm	0.0631 ppm	0.6818 ppm	0.0031 ppm	140.2554 ppm
Concentration RSD	136.3 %	0.5 %	12.0 %	9.1 %	0.4 %	2.6 %	0.9 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0011 ppm	0.0659 ppm	0.1557 ppm	0.2914 ppm	145.9360 ppm	13.1123 ppm	64.9670 ppm
Concentration per Run 1	0.0016 ppm	0.0667 ppm	0.1580 ppm	0.2900 ppm	144.3745 ppm	13.1990 ppm	65.2940 ppm
Concentration per Run 2	0.0010 ppm	0.0669 ppm	0.1545 ppm	0.2943 ppm	147.3881 ppm	12.8867 ppm	64.9937 ppm
Concentration per Run 3	0.0006 ppm	0.0640 ppm	0.1547 ppm	0.2899 ppm	146.0454 ppm	13.2511 ppm	64.6134 ppm
Concentration RSD	45.6 %	2.5 %	1.3 %	0.9 %	1.0 %	1.5 %	0.5 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	4.2972 ppm	0.0010 ppm	5.8082 ppm	0.1776 ppm	0.3269 ppm	-0.0066 ppm	-0.0012 ppm
Concentration per Run 1	4.2811 ppm	0.0007 ppm	5.8425 ppm	0.1818 ppm	0.3319 ppm	-0.0056 ppm	-0.0012 ppm
Concentration per Run 2	4.3258 ppm	0.0012 ppm	5.7177 ppm	0.1762 ppm	0.3254 ppm	-0.0059 ppm	-0.0017 ppm
Concentration per Run 3	4.2848 ppm	0.0010 ppm	5.8643 ppm	0.1748 ppm	0.3235 ppm	-0.0083 ppm	-0.0007 ppm
Concentration RSD	0.6 %	27.2 %	1.4 %	2.1 %	1.4 %	22.5 %	42.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	55.7555 [SIC 200]	0.0180 ppm	0.3715 ppm	2.7054 ppm	-0.0095 ppm	0.1804 ppm	0.4037 ppm
Concentration per Run 1	70.2472 ppm	0.0187 ppm	0.3693 ppm	2.7821 ppm	-0.0095 ppm	0.1822 ppm	0.4088 ppm
Concentration per Run 2	56.0778 ppm	0.0176 ppm	0.3719 ppm	2.6815 ppm	-0.0104 ppm	0.1797 ppm	0.4042 ppm
Concentration per Run 3	40.9415 ppm	0.0178 ppm	0.3733 ppm	2.6525 ppm	-0.0085 ppm	0.1792 ppm	0.3980 ppm
Concentration RSD	26.3 %	3.1 %	0.5 %	2.5 %	10.3 %	0.9 %	1.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	125.8780 %	118.6794 %	114.4315 %	103.0554 %	76.8644 %	95.6993 %	0.1343 ppm
Concentration per Run 1	125.7712 %	119.2464 %	115.2774 %	103.8997 %	76.4383 %	96.0764 %	0.1325 ppm
Concentration per Run 2	126.5612 %	117.7642 %	115.7962 %	102.9084 %	77.9070 %	95.2523 %	0.1319 ppm
Concentration per Run 3	125.3014 %	119.0276 %	112.2208 %	102.3579 %	76.2479 %	95.7691 %	0.1385 ppm
Concentration RSD	0.5 %	0.7 %	1.7 %	0.8 %	1.2 %	0.4 %	2.7 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: WG2084309-3D2 WG2084309
 Analysis started at: 6/27/2025 1:57:22 PM
 Comments: <Comment>
 Rack: 1
 Vial: 34

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0473 ppm	77.1849 ppm	0.1026 ppm	0.8894 ppm	2.3377 ppm	0.0493 ppm	132.4907 ppm
Concentration per Run 1	0.0475 ppm	76.5293 ppm	0.1044 ppm	0.8935 ppm	2.3515 ppm	0.0493 ppm	133.6422 ppm
Concentration per Run 2	0.0474 ppm	77.3742 ppm	0.1015 ppm	0.8940 ppm	2.3074 ppm	0.0492 ppm	131.5061 ppm
Concentration per Run 3	0.0471 ppm	77.6513 ppm	0.1017 ppm	0.8807 ppm	2.3541 ppm	0.0495 ppm	132.3238 ppm
Concentration RSD	0.5 %	0.8 %	1.6 %	0.9 %	1.1 %	0.3 %	0.8 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0446 ppm	0.4794 ppm	0.3019 ppm	0.5241 ppm	123.1762 ppm	13.7480 ppm	69.9831 ppm
Concentration per Run 1	0.0446 ppm	0.4810 ppm	0.3040 ppm	0.5205 ppm	123.0606 ppm	13.5059 ppm	70.2287 ppm
Concentration per Run 2	0.0445 ppm	0.4801 ppm	0.3007 ppm	0.5288 ppm	123.7047 ppm	13.8640 ppm	69.7131 ppm
Concentration per Run 3	0.0446 ppm	0.4770 ppm	0.3011 ppm	0.5231 ppm	122.7633 ppm	13.8741 ppm	70.0074 ppm
Concentration RSD	0.1 %	0.4 %	0.6 %	0.8 %	0.4 %	1.5 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	4.0377 ppm	0.8132 ppm	13.0825 ppm	0.6054 ppm	0.8511 ppm	0.2014 ppm	0.0807 ppm
Concentration per Run 1	4.0508 ppm	0.8160 ppm	12.7928 ppm	0.6133 ppm	0.8596 ppm	0.2042 ppm	0.0809 ppm
Concentration per Run 2	4.0260 ppm	0.8142 ppm	13.1893 ppm	0.6050 ppm	0.8538 ppm	0.2006 ppm	0.0802 ppm
Concentration per Run 3	4.0363 ppm	0.8095 ppm	13.2653 ppm	0.5979 ppm	0.8399 ppm	0.1995 ppm	0.0808 ppm
Concentration RSD	0.3 %	0.4 %	1.9 %	1.3 %	1.2 %	1.2 %	0.4 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	18.0469 ppm	0.8203 ppm	1.2610 ppm	2.3485 ppm	0.0906 ppm	0.5652 ppm	0.7320 ppm
Concentration per Run 1	19.6584 ppm	0.8311 ppm	1.2590 ppm	2.3708 ppm	0.0920 ppm	0.5688 ppm	0.7395 ppm
Concentration per Run 2	18.1347 ppm	0.8209 ppm	1.2685 ppm	2.3325 ppm	0.0921 ppm	0.5637 ppm	0.7299 ppm
Concentration per Run 3	16.3478 ppm	0.8089 ppm	1.2554 ppm	2.3423 ppm	0.0879 ppm	0.5633 ppm	0.7265 ppm
Concentration RSD	9.2 %	1.3 %	0.5 %	0.8 %	2.7 %	0.5 %	0.9 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	121.5678 %	113.0982 %	109.5456 %	101.4272 %	76.1178 %	93.7129 %	0.1068 ppm
Concentration per Run 1	122.0276 %	113.7630 %	109.1750 %	101.9853 %	75.6456 %	94.1079 %	0.1040 ppm
Concentration per Run 2	121.4703 %	112.3780 %	108.8974 %	101.4315 %	75.7843 %	93.1953 %	0.1079 ppm
Concentration per Run 3	121.2055 %	113.1535 %	110.5645 %	100.8647 %	76.9235 %	93.8355 %	0.1085 ppm
Concentration RSD	0.3 %	0.6 %	0.8 %	0.6 %	0.9 %	0.5 %	2.3 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: WG2084309-4D2 WG2084309
 Analysis started at: 6/27/2025 2:04:03 PM
 Comments: <Comment>
 Rack: 1
 Vial: 35

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0000 ppm	73.7341 ppm	0.0157 ppm	0.0461 ppm	0.5596 ppm	0.0025 ppm	169.0991 ppm
Concentration per Run 1	0.0000 ppm	73.3063 ppm	0.0159 ppm	0.0471 ppm	0.5570 ppm	0.0025 ppm	169.2635 ppm
Concentration per Run 2	0.0000 ppm	73.5151 ppm	0.0161 ppm	0.0461 ppm	0.5582 ppm	0.0026 ppm	170.0177 ppm
Concentration per Run 3	-0.0001 ppm	74.3809 ppm	0.0151 ppm	0.0451 ppm	0.5636 ppm	0.0025 ppm	168.0161 ppm
Concentration RSD	320.1 %	0.8 %	3.5 %	2.2 %	0.6 %	0.8 %	0.6 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0017 ppm	0.0601 ppm	0.1216 ppm	0.2672 ppm	121.8282 ppm	6.5290 ppm	63.8527 ppm
Concentration per Run 1	0.0017 ppm	0.0613 ppm	0.1212 ppm	0.2679 ppm	123.0803 ppm	6.5676 ppm	63.7375 ppm
Concentration per Run 2	0.0018 ppm	0.0596 ppm	0.1209 ppm	0.2679 ppm	121.3772 ppm	6.4433 ppm	63.9505 ppm
Concentration per Run 3	0.0016 ppm	0.0594 ppm	0.1227 ppm	0.2658 ppm	121.0272 ppm	6.5761 ppm	63.8700 ppm
Concentration RSD	4.1 %	1.8 %	0.8 %	0.5 %	0.9 %	1.1 %	0.2 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	3.7768 ppm	0.0011 ppm	2.7241 ppm	0.1518 ppm	0.3246 ppm	-0.0060 ppm	-0.0017 ppm
Concentration per Run 1	3.7725 ppm	0.0012 ppm	2.7090 ppm	0.1551 ppm	0.3297 ppm	-0.0052 ppm	-0.0013 ppm
Concentration per Run 2	3.7898 ppm	0.0012 ppm	2.6792 ppm	0.1501 ppm	0.3241 ppm	-0.0054 ppm	-0.0020 ppm
Concentration per Run 3	3.7681 ppm	0.0009 ppm	2.7841 ppm	0.1501 ppm	0.3200 ppm	-0.0073 ppm	-0.0017 ppm
Concentration RSD	0.3 %	13.5 %	2.0 %	1.9 %	1.5 %	19.3 %	20.6 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	18.2452 ppm	0.0114 ppm	0.3291 ppm	1.5539 ppm	-0.0094 ppm	0.1374 ppm	0.3675 ppm
Concentration per Run 1	20.4875 ppm	0.0119 ppm	0.3269 ppm	1.5732 ppm	-0.0097 ppm	0.1376 ppm	0.3729 ppm
Concentration per Run 2	18.2182 ppm	0.0110 ppm	0.3285 ppm	1.5586 ppm	-0.0098 ppm	0.1370 ppm	0.3663 ppm
Concentration per Run 3	16.0299 ppm	0.0112 ppm	0.3318 ppm	1.5298 ppm	-0.0088 ppm	0.1376 ppm	0.3632 ppm
Concentration RSD	12.2 %	4.2 %	0.8 %	1.4 %	5.5 %	0.2 %	1.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	121.5314 %	113.9538 %	109.2970 %	101.4221 %	75.1480 %	94.1747 %	0.1102 ppm
Concentration per Run 1	121.8053 %	113.6639 %	110.0066 %	102.4083 %	75.0920 %	94.0555 %	0.1091 ppm
Concentration per Run 2	121.4489 %	114.1699 %	108.5857 %	101.2814 %	74.9427 %	94.1696 %	0.1087 ppm
Concentration per Run 3	121.3400 %	114.0277 %	109.2987 %	100.5767 %	75.4094 %	94.2990 %	0.1126 ppm
Concentration RSD	0.2 %	0.2 %	0.7 %	0.9 %	0.3 %	0.1 %	2.0 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: WG2084309-5D2 WG2084309
 Analysis started at: 6/27/2025 2:10:35 PM
 Comments: <Comment>
 Rack: 1
 Vial: 36

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.0523 ppm	101.4604 ppm	0.1109 ppm	0.9429 ppm	2.6237 ppm	0.0526 ppm	148.5081 ppm
Concentration per Run 1	0.0522 ppm	101.8859 ppm	0.1077 ppm	0.9472 ppm	2.6312 ppm	0.0528 ppm	149.7934 ppm
Concentration per Run 2	0.0523 ppm	102.1307 ppm	0.1133 ppm	0.9390 ppm	2.6139 ppm	0.0524 ppm	146.9959 ppm
Concentration per Run 3	0.0523 ppm	100.3647 ppm	0.1118 ppm	0.9424 ppm	2.6260 ppm	0.0526 ppm	148.7348 ppm
Concentration RSD	0.0 %	0.9 %	2.6 %	0.4 %	0.3 %	0.4 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0455 ppm	0.5247 ppm	0.3428 ppm	0.5399 ppm	142.5868 ppm	20.4937 ppm	71.2452 ppm
Concentration per Run 1	0.0462 ppm	0.5284 ppm	0.3405 ppm	0.5463 ppm	143.5212 ppm	20.4731 ppm	71.4208 ppm
Concentration per Run 2	0.0453 ppm	0.5212 ppm	0.3466 ppm	0.5357 ppm	141.5892 ppm	21.1211 ppm	71.4047 ppm
Concentration per Run 3	0.0450 ppm	0.5244 ppm	0.3413 ppm	0.5378 ppm	142.6500 ppm	19.8867 ppm	70.9100 ppm
Concentration RSD	1.4 %	0.7 %	1.0 %	1.0 %	0.7 %	3.0 %	0.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	4.6780 ppm	0.8675 ppm	15.7820 ppm	0.6737 ppm	0.7900 ppm	0.4632 ppm	0.0880 ppm
Concentration per Run 1	4.7092 ppm	0.8725 ppm	15.7518 ppm	0.6682 ppm	0.7834 ppm	0.4588 ppm	0.0875 ppm
Concentration per Run 2	4.6500 ppm	0.8610 ppm	16.1996 ppm	0.6764 ppm	0.7923 ppm	0.4643 ppm	0.0848 ppm
Concentration per Run 3	4.6748 ppm	0.8690 ppm	15.3947 ppm	0.6765 ppm	0.7943 ppm	0.4665 ppm	0.0916 ppm
Concentration RSD	0.6 %	0.7 %	2.6 %	0.7 %	0.7 %	0.9 %	3.9 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	68.5934 [SIC 200]	0.9338 ppm	1.2932 ppm	3.5881 ppm	0.0909 ppm	0.6570 ppm	0.7769 ppm
Concentration per Run 1	74.8843 ppm	0.9232 ppm	1.3002 ppm	3.6251 ppm	0.0903 ppm	0.6553 ppm	0.7785 ppm
Concentration per Run 2	69.4182 ppm	0.9359 ppm	1.2967 ppm	3.5972 ppm	0.0911 ppm	0.6597 ppm	0.7742 ppm
Concentration per Run 3	61.4777 ppm	0.9423 ppm	1.2828 ppm	3.5419 ppm	0.0913 ppm	0.6559 ppm	0.7779 ppm
Concentration RSD	9.8 %	1.0 %	0.7 %	1.2 %	0.6 %	0.4 %	0.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	123.6027 %	117.0710 %	113.0451 %	101.1886 %	75.7626 %	94.5198 %	0.1267 ppm
Concentration per Run 1	123.8953 %	116.5911 %	114.9048 %	101.4267 %	76.8730 %	94.1458 %	0.1258 ppm
Concentration per Run 2	122.9322 %	117.0432 %	112.8368 %	101.1775 %	75.2820 %	94.9006 %	0.1302 ppm
Concentration per Run 3	123.9805 %	117.5788 %	111.3936 %	100.9615 %	75.1329 %	94.5130 %	0.1241 ppm
Concentration RSD	0.5 %	0.4 %	1.6 %	0.2 %	1.3 %	0.4 %	2.5 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: WG2084309-6D10 WG2084309
Analysis started at: 6/27/2025 2:17:15 PM
Comments: <Comment>
Rack: 1
Vial: 37

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	20.5333 ppm	0.0044 ppm	0.0183 ppm	0.1391 ppm	0.0007 ppm	30.5397 ppm
Concentration per Run 1	-0.0002 ppm	20.5153 ppm	0.0051 ppm	0.0192 ppm	0.1395 ppm	0.0008 ppm	30.2489 ppm
Concentration per Run 2	-0.0003 ppm	20.5318 ppm	0.0046 ppm	0.0187 ppm	0.1391 ppm	0.0007 ppm	30.8435 ppm
Concentration per Run 3	-0.0002 ppm	20.5527 ppm	0.0034 ppm	0.0170 ppm	0.1386 ppm	0.0007 ppm	30.5266 ppm
Concentration RSD	24.0 %	0.1 %	19.8 %	6.4 %	0.3 %	3.6 %	1.0 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0003 ppm	0.0153 ppm	0.0341 ppm	0.0588 ppm	32.6618 ppm	2.9643 ppm	14.9252 ppm
Concentration per Run 1	0.0003 ppm	0.0155 ppm	0.0346 ppm	0.0591 ppm	32.4272 ppm	3.0024 ppm	15.0396 ppm
Concentration per Run 2	0.0003 ppm	0.0154 ppm	0.0345 ppm	0.0589 ppm	32.9097 ppm	2.9010 ppm	14.8622 ppm
Concentration per Run 3	0.0002 ppm	0.0152 ppm	0.0333 ppm	0.0584 ppm	32.6485 ppm	2.9896 ppm	14.8739 ppm
Concentration RSD	12.0 %	1.2 %	2.1 %	0.6 %	0.7 %	1.9 %	0.7 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.9401 ppm	0.0009 ppm	1.1214 ppm	0.0348 ppm	0.0694 ppm	-0.0008 ppm	-0.0006 ppm
Concentration per Run 1	0.9326 ppm	0.0009 ppm	1.1460 ppm	0.0352 ppm	0.0698 ppm	-0.0007 ppm	0.0006 ppm
Concentration per Run 2	0.9488 ppm	0.0009 ppm	1.1137 ppm	0.0349 ppm	0.0690 ppm	-0.0010 ppm	-0.0005 ppm
Concentration per Run 3	0.9389 ppm	0.0010 ppm	1.1046 ppm	0.0341 ppm	0.0693 ppm	-0.0008 ppm	-0.0019 ppm
Concentration RSD	0.9 %	5.9 %	1.9 %	1.6 %	0.6 %	19.8 %	206.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	12.2733 ppm	0.0042 ppm	0.0769 ppm	0.5798 ppm	-0.0018 ppm	0.0385 ppm	0.1050 ppm
Concentration per Run 1	14.1943 ppm	0.0040 ppm	0.0767 ppm	0.5867 ppm	-0.0010 ppm	0.0389 ppm	0.1062 ppm
Concentration per Run 2	12.9166 ppm	0.0045 ppm	0.0771 ppm	0.5723 ppm	-0.0029 ppm	0.0385 ppm	0.1048 ppm
Concentration per Run 3	9.7088 ppm	0.0040 ppm	0.0771 ppm	0.5805 ppm	-0.0017 ppm	0.0380 ppm	0.1040 ppm
Concentration RSD	18.8 %	6.6 %	0.3 %	1.2 %	52.9 %	1.2 %	1.0 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	106.6387 %	102.9485 %	102.3263 %	100.6268 %	88.8129 %	97.0425 %	0.0265 ppm
Concentration per Run 1	107.3330 %	102.7531 %	102.0196 %	101.2594 %	88.4228 %	96.9620 %	0.0264 ppm
Concentration per Run 2	106.9718 %	102.8417 %	102.7201 %	100.5117 %	89.0906 %	97.0779 %	0.0265 ppm
Concentration per Run 3	105.6112 %	103.2507 %	102.2391 %	100.1092 %	88.9253 %	97.0875 %	0.0265 ppm
Concentration RSD	0.9 %	0.3 %	0.4 %	0.6 %	0.4 %	0.1 %	0.3 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: CCV
Analysis started at: 6/27/2025 2:23:45 PM
Comments: <Comment>
Rack: 0
Vial: 3

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	0.5003 ppm	0.5001 ppm	0.4581 ppm	0.4999 ppm	0.4917 ppm	0.5006 ppm	0.5082 ppm
Concentration per Run 1	0.5007 ppm	0.4944 ppm	0.4628 ppm	0.4962 ppm	0.4835 ppm	0.4964 ppm	0.5063 ppm
Concentration per Run 2	0.5003 ppm	0.5012 ppm	0.4559 ppm	0.5020 ppm	0.4926 ppm	0.5021 ppm	0.5121 ppm
Concentration per Run 3	0.5001 ppm	0.5048 ppm	0.4554 ppm	0.5013 ppm	0.4989 ppm	0.5035 ppm	0.5061 ppm
Recovery Percentage 1	100.068 %	100.028 %	91.612 %	99.972 %	98.331 %	100.130 %	101.635 %
Concentration RSD	0.1 %	1.1 %	0.9 %	0.6 %	1.6 %	0.7 %	0.7 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.4875 ppm	0.5111 ppm	0.5097 ppm	0.4887 ppm	0.5086 ppm	4.9406 ppm	0.5132 ppm
Concentration per Run 1	0.4829 ppm	0.5075 ppm	0.5121 ppm	0.4862 ppm	0.5055 ppm	4.7984 ppm	0.5087 ppm
Concentration per Run 2	0.4890 ppm	0.5121 ppm	0.5082 ppm	0.4911 ppm	0.5105 ppm	4.9328 ppm	0.5190 ppm
Concentration per Run 3	0.4907 ppm	0.5138 ppm	0.5090 ppm	0.4887 ppm	0.5098 ppm	5.0905 ppm	0.5119 ppm
Recovery Percentage 1	97.509 %	102.225 %	101.949 %	97.734 %	101.717 %	98.812 %	102.640 %
Concentration RSD	0.8 %	0.6 %	0.4 %	0.5 %	0.5 %	3.0 %	1.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.5099 ppm	0.4913 ppm	9.9523 ppm	0.4776 ppm	0.4853 ppm	0.4780 ppm	0.4845 ppm
Concentration per Run 1	0.5066 ppm	0.4882 ppm	9.6587 ppm	0.4787 ppm	0.4858 ppm	0.4799 ppm	0.4880 ppm
Concentration per Run 2	0.5117 ppm	0.4929 ppm	9.9122 ppm	0.4745 ppm	0.4827 ppm	0.4748 ppm	0.4790 ppm
Concentration per Run 3	0.5115 ppm	0.4929 ppm	10.2859 ppm	0.4796 ppm	0.4874 ppm	0.4794 ppm	0.4866 ppm
Recovery Percentage 1	101.984 %	98.268 %	99.523 %	95.516 %	97.060 %	95.603 %	96.906 %
Concentration RSD	0.6 %	0.5 %	3.2 %	0.6 %	0.5 %	0.6 %	1.0 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	5.2713 ppm	0.4597 ppm	0.5181 ppm	0.5033 ppm	0.4889 ppm	0.5004 ppm	0.5023 ppm
Concentration per Run 1	5.2995 ppm	0.4593 ppm	0.5102 ppm	0.5025 ppm	0.4915 ppm	0.5002 ppm	0.5040 ppm
Concentration per Run 2	5.2283 ppm	0.4577 ppm	0.5192 ppm	0.5041 ppm	0.4843 ppm	0.4999 ppm	0.4990 ppm
Concentration per Run 3	5.2860 ppm	0.4622 ppm	0.5248 ppm	0.5032 ppm	0.4910 ppm	0.5012 ppm	0.5040 ppm
Recovery Percentage 1	100.405 %	91.949 %	103.613 %	100.658 %	97.789 %	100.088 %	100.466 %
Concentration RSD	0.7 %	0.5 %	1.4 %	0.2 %	0.8 %	0.1 %	0.6 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	102.1129 %	99.4395 %	98.9906 %	101.1024 %	92.4114 %	98.5607 %	0.5170 ppm
Concentration per Run 1	103.1892 %	99.7575 %	98.0604 %	102.2418 %	91.8318 %	98.9776 %	0.4995 ppm
Concentration per Run 2	101.6044 %	99.2299 %	99.6822 %	100.7987 %	93.0200 %	98.2300 %	0.5155 ppm
Concentration per Run 3	101.5451 %	99.3313 %	99.2293 %	100.2669 %	92.3823 %	98.4745 %	0.5362 ppm
Recovery Percentage 1							103.407 %
Concentration RSD	0.9 %	0.3 %	0.8 %	1.0 %	0.6 %	0.4 %	3.6 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: CCB
 Analysis started at: 6/27/2025 2:30:03 PM
 Comments: <Comment>
 Rack: 0
 Vial: 4

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.0007 ppm	0.0000 ppm	0.0019 ppm	-0.0001 ppm	0.0000 ppm	0.0021 ppm
Concentration per Run 1	-0.0002 ppm	0.0010 ppm	0.0014 ppm	0.0018 ppm	-0.0001 ppm	0.0000 ppm	0.0011 ppm
Concentration per Run 2	-0.0001 ppm	0.0003 ppm	0.0003 ppm	0.0019 ppm	0.0000 ppm	0.0001 ppm	0.0007 ppm
Concentration per Run 3	-0.0004 ppm	0.0010 ppm	-0.0017 ppm	0.0019 ppm	-0.0001 ppm	0.0000 ppm	0.0047 ppm
Recovery Percentage 1	-2.976 %	0.739 %	0.160 %	6.248 %	-0.522 %	0.663 %	2.150 %
Concentration RSD	74.4 %	50.8 %	19,983.6 %	5.0 %	9.7 %	95.2 %	102.1 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0001 ppm	-0.0001 ppm	-0.0001 ppm	0.0000 ppm	0.0016 ppm	-0.0025 ppm	0.0002 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0021 ppm	-0.0040 ppm	0.0001 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0015 ppm	-0.0008 ppm	0.0015 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	0.0000 ppm	0.0010 ppm	-0.0027 ppm	-0.0009 ppm
Recovery Percentage 1	1.377 %	-0.605 %	-0.615 %	0.050 %	3.133 %	-0.100 %	0.221 %
Concentration RSD	40.7 %	63.0 %	26.6 %	1,068.6 %	35.5 %	64.8 %	538.4 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	0.0005 ppm	-0.0024 ppm	-0.0002 ppm	0.0001 ppm	-0.0006 ppm	0.0004 ppm
Concentration per Run 1	0.0002 ppm	0.0005 ppm	-0.0027 ppm	-0.0001 ppm	0.0004 ppm	-0.0009 ppm	0.0002 ppm
Concentration per Run 2	-0.0001 ppm	0.0006 ppm	-0.0027 ppm	-0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0011 ppm
Concentration per Run 3	0.0001 ppm	0.0004 ppm	-0.0017 ppm	-0.0003 ppm	-0.0004 ppm	-0.0011 ppm	0.0000 ppm
Recovery Percentage 1	0.700 %	0.984 %	-0.118 %	-0.618 %	0.524 %	-1.286 %	4.004 %
Concentration RSD	207.5 %	23.3 %	24.1 %	66.7 %	803.4 %	93.9 %	144.1 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0021 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	-0.0005 ppm	0.0002 ppm	-0.0001 ppm
Concentration per Run 1	0.0029 ppm	0.0005 ppm	0.0000 ppm	-0.0002 ppm	-0.0005 ppm	0.0001 ppm	-0.0002 ppm
Concentration per Run 2	0.0021 ppm	0.0005 ppm	0.0000 ppm	-0.0001 ppm	0.0004 ppm	0.0001 ppm	-0.0001 ppm
Concentration per Run 3	0.0014 ppm	-0.0002 ppm	0.0000 ppm	0.0001 ppm	-0.0015 ppm	0.0002 ppm	-0.0001 ppm
Recovery Percentage 1	0.424 %	0.479 %	-0.047 %	-0.352 %	-2.652 %	1.567 %	-2.547 %
Concentration RSD	34.7 %	165.9 %	775.6 %	430.5 %	180.2 %	42.0 %	61.2 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	102.5011 %	101.2611 %	99.4155 %	99.4807 %	95.8196 %	99.6742 %	-0.0003 ppm
Concentration per Run 1	103.4611 %	101.3505 %	100.2573 %	99.7680 %	96.4921 %	99.8696 %	-0.0002 ppm
Concentration per Run 2	102.7680 %	100.7809 %	98.2741 %	100.2062 %	94.8367 %	99.3314 %	-0.0001 ppm
Concentration per Run 3	101.2741 %	101.6521 %	99.7149 %	98.4678 %	96.1299 %	99.8216 %	-0.0006 ppm
Recovery Percentage 1							-3.252 %
Concentration RSD	1.1 %	0.4 %	1.0 %	0.9 %	0.9 %	0.3 %	84.9 %

ICP DataTrace 6

6/27/2025 2:55:17 PM



LabBook: WG2084179_06272025T6.imexp

Sample: zWG2084309-1 WG2084309
 Analysis started at: 6/27/2025 2:41:53 PM
 Comments: <Comment>
 Rack: 2
 Vial: 6

	Ag 328.068 {103} (Axial)	Al 396.152 {85} (Radial)	As 189.042 {478} (Axial)	B 208.959 {461} (Axial)	Ba 455.403 {74} (Radial)	Be 313.042 {108} (Radial)	Ca 315.887 {107} (Radial)
Concentration average	-0.0002 ppm	0.1347 ppm	-0.0025 ppm	0.0021 ppm	0.0010 ppm	0.0000 ppm	0.0580 ppm
Concentration per Run 1	-0.0002 ppm	0.1310 ppm	-0.0041 ppm	0.0022 ppm	0.0010 ppm	0.0000 ppm	0.0567 ppm
Concentration per Run 2	-0.0002 ppm	0.1330 ppm	-0.0026 ppm	0.0021 ppm	0.0010 ppm	0.0000 ppm	0.0563 ppm
Concentration per Run 3	-0.0002 ppm	0.1401 ppm	-0.0007 ppm	0.0020 ppm	0.0011 ppm	0.0000 ppm	0.0610 ppm
Recovery Percentage 1	-3.134 %	134.709 %	-49.237 %	7.071 %	10.150 %	0.336 %	58.016 %
Concentration RSD	7.1 %	3.5 %	68.1 %	5.3 %	6.6 %	169.3 %	4.5 %

	Cd 214.438 {457} (Axial)	Co 228.616 {447} (Axial)	Cr 267.716 {126} (Axial)	Cu 324.754 {104} (Axial)	Fe 259.940 {130} (Radial)	K 766.490 {44} (Radial)	Mg 279.079 {121} (Axial)
Concentration average	0.0002 ppm	-0.0002 ppm	0.0004 ppm	0.0007 ppm	0.3603 ppm	0.0213 ppm	0.0529 ppm
Concentration per Run 1	0.0002 ppm	-0.0002 ppm	0.0005 ppm	0.0009 ppm	0.3427 ppm	0.0203 ppm	0.0526 ppm
Concentration per Run 2	0.0002 ppm	-0.0001 ppm	0.0004 ppm	0.0005 ppm	0.3648 ppm	0.0269 ppm	0.0527 ppm
Concentration per Run 3	0.0002 ppm	-0.0003 ppm	0.0005 ppm	0.0007 ppm	0.3733 ppm	0.0167 ppm	0.0536 ppm
Recovery Percentage 1	4.351 %	-1.104 %	4.468 %	7.193 %	720.578 %	0.852 %	52.930 %
Concentration RSD	9.4 %	52.6 %	19.6 %	27.8 %	4.4 %	24.2 %	1.0 %

	Mn 257.610 {131} (Radial)	Mo 202.030 {467} (Axial)	Na 589.592 {57} (Radial)	Ni 231.604 {445} (Axial)	Pb 220.353 {453} (Axial)	Sb 206.833 {463} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0053 ppm	0.0002 ppm	0.0235 ppm	0.0001 ppm	-0.0011 ppm	0.0002 ppm	0.0009 ppm
Concentration per Run 1	0.0049 ppm	0.0002 ppm	0.0218 ppm	0.0002 ppm	-0.0015 ppm	-0.0003 ppm	0.0017 ppm
Concentration per Run 2	0.0054 ppm	0.0002 ppm	0.0227 ppm	0.0000 ppm	-0.0011 ppm	0.0006 ppm	0.0002 ppm
Concentration per Run 3	0.0054 ppm	0.0002 ppm	0.0261 ppm	0.0001 ppm	-0.0006 ppm	0.0003 ppm	0.0009 ppm
Recovery Percentage 1	52.555 %	0.370 %	1.177 %	0.312 %	-11.014 %	0.343 %	9.344 %
Concentration RSD	5.2 %	19.3 %	9.5 %	128.0 %	40.3 %	261.9 %	80.2 %

	Si 212.412 {459} (Axial)	Sn 189.989 {477} (Axial)	Sr 421.552 {80} (Radial)	Ti 334.904 {101} (Axial)	Tl 190.856 {477} (Axial)	V 292.402 {115} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0384 ppm	0.0100 ppm	0.0001 ppm	0.0010 ppm	-0.0031 ppm	0.0004 ppm	0.0071 ppm
Concentration per Run 1	0.0372 ppm	0.0100 ppm	0.0000 ppm	0.0007 ppm	-0.0035 ppm	0.0005 ppm	0.0070 ppm
Concentration per Run 2	0.0394 ppm	0.0099 ppm	0.0001 ppm	0.0007 ppm	-0.0026 ppm	0.0003 ppm	0.0070 ppm
Concentration per Run 3	0.0387 ppm	0.0100 ppm	0.0001 ppm	0.0015 ppm	-0.0031 ppm	0.0003 ppm	0.0072 ppm
Recovery Percentage 1	7.683 %	19.906 %	0.759 %	10.028 %	-15.358 %	3.652 %	141.345 %
Concentration RSD	2.9 %	0.6 %	36.1 %	46.9 %	14.4 %	22.4 %	1.3 %

	Y 371.030 {91} (Radial)	Y 360.073 {94} (Axial)	Y 224.306 {450} (Axial)	Sc 361.384 {93} (Radial)	Sc 227.318 {448} (Axial)	Sc 361.384 {93} (Axial)	Li 670.784 {50} (Radial)
Concentration average	103.4334 %	101.6541 %	97.2311 %	112.9218 %	89.9090 %	102.6821 %	0.0004 ppm
Concentration per Run 1	104.8220 %	100.5912 %	96.4720 %	118.5602 %	89.7847 %	101.8592 %	0.0004 ppm
Concentration per Run 2	103.3600 %	102.1910 %	97.7900 %	111.9534 %	90.0451 %	103.1664 %	0.0003 ppm
Concentration per Run 3	102.1182 %	102.1801 %	97.4312 %	108.2520 %	89.8971 %	103.0208 %	0.0005 ppm
Recovery Percentage 1							4.434 %
Concentration RSD	1.3 %	0.9 %	0.7 %	4.6 %	0.1 %	0.7 %	22.3 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: Blank JMF Trace8
 Analysis started at: 6/27/2025 8:12:18 AM
 Rack: 0
 Vial: 1
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-1.2 %	-0.2 %	-1.0 %	0.2 %	0.5 %	-0.3 %	0.9 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.9 %	0.3 %	-0.4 %	0.1 %	6.0 %	0.3 %	0.7 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.2 %	-0.1 %	0.1 %	-1.2 %	1.2 %	0.3 %	7.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.2 %	0.2 %	0.2 %	1.7 %	-0.2 %	-0.9 %	-2.0 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration per Run	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration RSD	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: ICAL
 Analysis started at: 6/27/2025 8:15:27 AM
 Rack: 0
 Vial: 2
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	10.0000 ppm
Concentration per Run	0.9972 ppm	24.8125 ppm	0.9964 ppm	0.9987 ppm	0.9968 ppm	0.9921 ppm	9.9332 ppm
Concentration per Run	0.9978 ppm	25.0396 ppm	0.9994 ppm	1.0008 ppm	1.0015 ppm	0.9993 ppm	9.9187 ppm
Concentration per Run	1.0050 ppm	25.1479 ppm	1.0043 ppm	1.0006 ppm	1.0016 ppm	1.0086 ppm	10.1482 ppm
Concentration RSD	0.4 %	0.7 %	0.4 %	0.1 %	0.3 %	0.8 %	1.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	35.0000 ppm	1.0000 ppm
Concentration per Run	0.9938 ppm	0.9990 ppm	0.9915 ppm	1.0006 ppm	24.8361 ppm	34.8391 ppm	0.9953 ppm
Concentration per Run	0.9944 ppm	0.9995 ppm	1.0083 ppm	0.9961 ppm	24.9586 ppm	34.9398 ppm	0.9969 ppm
Concentration per Run	1.0119 ppm	1.0015 ppm	1.0003 ppm	1.0033 ppm	25.2054 ppm	35.2211 ppm	1.0078 ppm
Concentration RSD	1.0 %	0.1 %	0.8 %	0.4 %	0.8 %	0.6 %	0.7 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	10.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run	9.9291 ppm	0.9920 ppm	0.9872 ppm	24.6465 ppm	0.9971 ppm	0.9982 ppm	0.9943 ppm
Concentration per Run	10.1085 ppm	0.9965 ppm	1.0016 ppm	25.1631 ppm	1.0016 ppm	1.0041 ppm	1.0005 ppm
Concentration per Run	9.9624 ppm	1.0115 ppm	1.0112 ppm	25.1904 ppm	1.0013 ppm	0.9977 ppm	1.0052 ppm
Concentration RSD	1.0 %	1.0 %	1.2 %	1.2 %	0.2 %	0.4 %	0.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	1.0000 ppm	10.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run	0.9957 ppm	9.9390 ppm	0.9937 ppm	0.9970 ppm	0.9886 ppm	0.9963 ppm	0.9978 ppm
Concentration per Run	0.9993 ppm	10.0059 ppm	1.0049 ppm	1.0001 ppm	1.0097 ppm	1.0025 ppm	0.9975 ppm
Concentration per Run	1.0050 ppm	10.0551 ppm	1.0013 ppm	1.0030 ppm	1.0017 ppm	1.0012 ppm	1.0047 ppm
Concentration RSD	0.5 %	0.6 %	0.6 %	0.3 %	1.1 %	0.3 %	0.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0000 ppm	98.2443 %	100.6117 %	95.0593 %	90.9184 %	96.2059 %	93.2034 %
Concentration per Run	1.0039 ppm	97.7428 %	101.7612 %	95.1175 %	90.0936 %	95.9165 %	93.0786 %
Concentration per Run	0.9982 ppm	98.2396 %	100.9208 %	94.9857 %	90.8205 %	97.2346 %	93.1399 %
Concentration per Run	0.9979 ppm	98.7505 %	99.1531 %	95.0748 %	91.8412 %	95.4666 %	93.3916 %
Concentration RSD	0.3 %	0.5 %	1.3 %	0.1 %	1.0 %	1.0 %	0.2 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: ICV
 Analysis started at: 6/27/2025 8:21:29 AM
 Rack: 0
 Vial: 3
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.5004 ppm	0.4820 ppm	0.4687 ppm	0.4787 ppm	0.5072 ppm	0.5149 ppm	0.5022 ppm
Concentration per Run	0.5013 ppm	0.4875 ppm	0.4681 ppm	0.4759 ppm	0.5050 ppm	0.5148 ppm	0.5002 ppm
Concentration per Run	0.4997 ppm	0.4804 ppm	0.4688 ppm	0.4812 ppm	0.5104 ppm	0.5154 ppm	0.5024 ppm
Concentration per Run	0.5001 ppm	0.4782 ppm	0.4692 ppm	0.4791 ppm	0.5062 ppm	0.5146 ppm	0.5041 ppm
Recovery Percentage	100.074 %	96.405 %	93.738 %	95.743 %	101.442 %	102.988 %	100.446 %
Concentration RSD	0.2 %	1.0 %	0.1 %	0.6 %	0.6 %	0.1 %	0.4 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.5034 ppm	0.5049 ppm	0.4973 ppm	0.5069 ppm	0.5098 ppm	5.1792 ppm	0.5296 ppm
Concentration per Run	0.5049 ppm	0.5048 ppm	0.4986 ppm	0.5063 ppm	0.5147 ppm	5.2300 ppm	0.5282 ppm
Concentration per Run	0.5040 ppm	0.5059 ppm	0.4963 ppm	0.5060 ppm	0.5059 ppm	5.1800 ppm	0.5324 ppm
Concentration per Run	0.5014 ppm	0.5039 ppm	0.4968 ppm	0.5084 ppm	0.5089 ppm	5.1277 ppm	0.5282 ppm
Recovery Percentage	100.682 %	100.973 %	99.452 %	101.383 %	101.964 %	103.584 %	105.916 %
Concentration RSD	0.4 %	0.2 %	0.2 %	0.3 %	0.9 %	1.0 %	0.5 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.4891 ppm	0.5144 ppm	0.5113 ppm	10.1740 ppm	0.5051 ppm	0.4929 ppm	0.5011 ppm
Concentration per Run	0.4922 ppm	0.5155 ppm	0.5074 ppm	10.2402 ppm	0.5065 ppm	0.4941 ppm	0.4992 ppm
Concentration per Run	0.4889 ppm	0.5142 ppm	0.5134 ppm	10.0999 ppm	0.5061 ppm	0.4944 ppm	0.5017 ppm
Concentration per Run	0.4862 ppm	0.5134 ppm	0.5132 ppm	10.1818 ppm	0.5027 ppm	0.4902 ppm	0.5024 ppm
Recovery Percentage	97.821 %	102.874 %	102.268 %	101.740 %	101.013 %	98.581 %	100.219 %
Concentration RSD	0.6 %	0.2 %	0.7 %	0.7 %	0.4 %	0.5 %	0.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.4723 ppm	5.4921 ppm	0.4956 ppm	0.5078 ppm	0.5004 ppm	0.4940 ppm	0.5106 ppm
Concentration per Run	0.4704 ppm	5.4947 ppm	0.4928 ppm	0.5072 ppm	0.5014 ppm	0.4941 ppm	0.5116 ppm
Concentration per Run	0.4728 ppm	5.4868 ppm	0.4964 ppm	0.5103 ppm	0.5026 ppm	0.4957 ppm	0.5102 ppm
Concentration per Run	0.4736 ppm	5.4950 ppm	0.4975 ppm	0.5058 ppm	0.4972 ppm	0.4921 ppm	0.5101 ppm
Recovery Percentage	94.450 %	104.612 %	99.116 %	101.557 %	100.073 %	98.794 %	102.128 %
Concentration RSD	0.4 %	0.1 %	0.5 %	0.5 %	0.6 %	0.4 %	0.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4963 ppm	102.8876 %	100.2079 %	101.6051 %	97.4340 %	96.1810 %	99.0165 %
Concentration per Run	0.4964 ppm	103.0634 %	100.4437 %	101.2046 %	97.5120 %	97.4005 %	98.5414 %
Concentration per Run	0.4967 ppm	102.6214 %	99.8310 %	102.0543 %	97.1408 %	94.9113 %	99.6227 %
Concentration per Run	0.4959 ppm	102.9779 %	100.3490 %	101.5565 %	97.6493 %	96.2312 %	98.8853 %
Recovery Percentage	99.268 %						
Concentration RSD	0.1 %	0.2 %	0.3 %	0.4 %	0.3 %	1.3 %	0.6 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: ICB
Analysis started at: 6/27/2025 8:25:02 AM
Rack: 0
Vial: 4
Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0004 ppm	0.0050 ppm	0.0025 ppm	0.0009 ppm	0.0001 ppm	0.0001 ppm	-0.0007 ppm
Concentration per Run	0.0002 ppm	0.0049 ppm	0.0028 ppm	0.0010 ppm	0.0000 ppm	0.0001 ppm	-0.0022 ppm
Concentration per Run	0.0006 ppm	0.0063 ppm	0.0025 ppm	0.0010 ppm	0.0001 ppm	0.0001 ppm	-0.0004 ppm
Concentration per Run	0.0004 ppm	0.0040 ppm	0.0021 ppm	0.0006 ppm	0.0001 ppm	0.0001 ppm	0.0004 ppm
Recovery Percentage	7.449 %	5.032 %	49.168 %	2.926 %	0.576 %	1.735 %	-0.717 %
Concentration RSD	52.7 %	22.9 %	13.2 %	22.9 %	48.0 %	17.1 %	185.0 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0008 ppm	0.0018 ppm	0.0117 ppm	0.0004 ppm
Concentration per Run	0.0000 ppm	-0.0001 ppm	0.0003 ppm	0.0007 ppm	0.0026 ppm	0.0143 ppm	0.0007 ppm
Concentration per Run	0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0008 ppm	0.0008 ppm	0.0149 ppm	0.0003 ppm
Concentration per Run	0.0001 ppm	0.0002 ppm	0.0004 ppm	0.0008 ppm	0.0020 ppm	0.0058 ppm	0.0002 ppm
Recovery Percentage	0.844 %	0.941 %	2.227 %	7.908 %	3.586 %	0.467 %	3.930 %
Concentration RSD	208.9 %	210.0 %	79.7 %	9.6 %	50.3 %	43.3 %	67.6 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0004 ppm	0.0000 ppm	0.0110 ppm	0.0065 ppm	0.0005 ppm	0.0005 ppm	0.0014 ppm
Concentration per Run	0.0001 ppm	0.0000 ppm	0.0112 ppm	0.0079 ppm	0.0008 ppm	0.0008 ppm	0.0021 ppm
Concentration per Run	0.0003 ppm	0.0000 ppm	0.0109 ppm	0.0063 ppm	0.0000 ppm	0.0007 ppm	-0.0005 ppm
Concentration per Run	0.0010 ppm	0.0000 ppm	0.0108 ppm	0.0052 ppm	0.0007 ppm	0.0000 ppm	0.0025 ppm
Recovery Percentage	0.448 %	-0.012 %	21.943 %	0.324 %	2.007 %	4.861 %	2.756 %
Concentration RSD	107.0 %	3,380.4 %	1.7 %	21.2 %	85.6 %	85.3 %	117.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0124 ppm	0.0030 ppm	0.0004 ppm	0.0000 ppm	0.0007 ppm	-0.0002 ppm	0.0002 ppm
Concentration per Run	0.0130 ppm	0.0031 ppm	0.0009 ppm	0.0000 ppm	0.0005 ppm	0.0003 ppm	0.0002 ppm
Concentration per Run	0.0133 ppm	0.0035 ppm	0.0006 ppm	0.0000 ppm	0.0008 ppm	-0.0003 ppm	0.0001 ppm
Concentration per Run	0.0108 ppm	0.0025 ppm	-0.0002 ppm	0.0001 ppm	0.0008 ppm	-0.0006 ppm	0.0003 ppm
Recovery Percentage	123.685 %	0.601 %	0.848 %	0.344 %	7.194 %	-0.991 %	1.941 %
Concentration RSD	11.3 %	16.9 %	141.5 %	83.5 %	26.6 %	223.9 %	44.9 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0005 ppm	94.4626 %	99.1059 %	94.7715 %	92.1726 %	96.9825 %	94.2475 %
Concentration per Run	-0.0004 ppm	93.7137 %	99.2768 %	95.2212 %	91.9996 %	96.7622 %	94.5868 %
Concentration per Run	-0.0005 ppm	94.7817 %	98.0813 %	94.5449 %	92.4404 %	96.8357 %	94.2567 %
Concentration per Run	-0.0006 ppm	94.8924 %	99.9596 %	94.5484 %	92.0777 %	97.3498 %	93.8989 %
Recovery Percentage	-10.143 %						
Concentration RSD	19.1 %	0.7 %	1.0 %	0.4 %	0.3 %	0.3 %	0.4 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: ICV
 Analysis started at: 6/27/2025 8:28:26 AM
 Rack: 0
 Vial: 10
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.5310 ppm	0.5012 ppm	0.5060 ppm	0.5198 ppm	0.5268 ppm	0.5369 ppm	0.5241 ppm
Concentration per Run	0.5330 ppm	0.5014 ppm	0.5075 ppm	0.5240 ppm	0.5262 ppm	0.5392 ppm	0.5292 ppm
Concentration per Run	0.5301 ppm	0.4993 ppm	0.5044 ppm	0.5170 ppm	0.5268 ppm	0.5363 ppm	0.5235 ppm
Concentration per Run	0.5300 ppm	0.5029 ppm	0.5061 ppm	0.5184 ppm	0.5274 ppm	0.5351 ppm	0.5196 ppm
Recovery Percentage	106.207 %	100.244 %	101.194 %	103.967 %	105.359 %	107.379 %	104.822 %
Concentration RSD	0.3 %	0.4 %	0.3 %	0.7 %	0.1 %	0.4 %	0.9 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.5355 ppm	0.5342 ppm	0.5277 ppm	0.5316 ppm	0.5296 ppm	5.3685 ppm	0.5426 ppm
Concentration per Run	0.5363 ppm	0.5362 ppm	0.5324 ppm	0.5318 ppm	0.5371 ppm	5.4086 ppm	0.5402 ppm
Concentration per Run	0.5342 ppm	0.5316 ppm	0.5252 ppm	0.5316 ppm	0.5238 ppm	5.3670 ppm	0.5482 ppm
Concentration per Run	0.5360 ppm	0.5347 ppm	0.5255 ppm	0.5315 ppm	0.5279 ppm	5.3300 ppm	0.5394 ppm
Recovery Percentage	107.107 %	106.831 %	105.539 %	106.329 %	105.921 %	107.370 %	108.520 %
Concentration RSD	0.2 %	0.4 %	0.8 %	0.0 %	1.3 %	0.7 %	0.9 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.5243 ppm	0.5349 ppm	0.5321 ppm	10.5483 ppm	0.5390 ppm	0.5105 ppm	0.5408 ppm
Concentration per Run	0.5263 ppm	0.5381 ppm	0.5315 ppm	10.4952 ppm	0.5428 ppm	0.5092 ppm	0.5375 ppm
Concentration per Run	0.5250 ppm	0.5332 ppm	0.5295 ppm	10.5936 ppm	0.5373 ppm	0.5099 ppm	0.5392 ppm
Concentration per Run	0.5217 ppm	0.5333 ppm	0.5355 ppm	10.5561 ppm	0.5368 ppm	0.5125 ppm	0.5456 ppm
Recovery Percentage	104.866 %	106.978 %	106.428 %	105.483 %	107.795 %	102.108 %	108.152 %
Concentration RSD	0.4 %	0.5 %	0.6 %	0.5 %	0.6 %	0.3 %	0.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.5093 ppm	5.8297 ppm	0.5405 ppm	0.5243 ppm	0.5255 ppm	0.5004 ppm	0.5354 ppm
Concentration per Run	0.5069 ppm	5.8481 ppm	0.5429 ppm	0.5249 ppm	0.5301 ppm	0.4998 ppm	0.5371 ppm
Concentration per Run	0.5080 ppm	5.8168 ppm	0.5393 ppm	0.5232 ppm	0.5216 ppm	0.5020 ppm	0.5342 ppm
Concentration per Run	0.5129 ppm	5.8242 ppm	0.5395 ppm	0.5248 ppm	0.5248 ppm	0.4993 ppm	0.5351 ppm
Recovery Percentage	101.859 %	111.042 %	108.107 %	104.860 %	105.103 %	100.073 %	107.089 %
Concentration RSD	0.6 %	0.3 %	0.4 %	0.2 %	0.8 %	0.3 %	0.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5371 ppm	94.2176 %	97.4703 %	94.4230 %	88.6736 %	92.9396 %	91.0294 %
Concentration per Run	0.5393 ppm	93.9191 %	97.0108 %	94.4447 %	88.4167 %	92.7068 %	91.0200 %
Concentration per Run	0.5356 ppm	94.4875 %	97.4627 %	94.8076 %	88.7534 %	92.6524 %	91.2888 %
Concentration per Run	0.5362 ppm	94.2462 %	97.9375 %	94.0166 %	88.8506 %	93.4596 %	90.7794 %
Recovery Percentage	107.410 %						
Concentration RSD	0.4 %	0.3 %	0.5 %	0.4 %	0.3 %	0.5 %	0.3 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: ICB
 Analysis started at: 6/27/2025 8:31:53 AM
 Rack: 0
 Vial: 4
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0004 ppm	0.0027 ppm	0.0007 ppm	0.0003 ppm	0.0000 ppm	0.0001 ppm	-0.0003 ppm
Concentration per Run	0.0004 ppm	0.0048 ppm	0.0002 ppm	-0.0006 ppm	0.0001 ppm	0.0001 ppm	0.0005 ppm
Concentration per Run	0.0001 ppm	0.0007 ppm	-0.0001 ppm	0.0015 ppm	0.0000 ppm	0.0001 ppm	0.0007 ppm
Concentration per Run	0.0006 ppm	0.0028 ppm	0.0019 ppm	-0.0001 ppm	0.0000 ppm	0.0001 ppm	-0.0020 ppm
Recovery Percentage	7.660 %	2.748 %	13.570 %	0.852 %	0.275 %	1.394 %	-0.264 %
Concentration RSD	68.3 %	73.7 %	157.5 %	426.3 %	116.2 %	16.9 %	578.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0001 ppm	0.0005 ppm	0.0001 ppm	0.0009 ppm	0.0003 ppm	0.0112 ppm	0.0003 ppm
Concentration per Run	0.0001 ppm	0.0004 ppm	0.0000 ppm	0.0007 ppm	0.0007 ppm	0.0126 ppm	0.0005 ppm
Concentration per Run	0.0001 ppm	0.0006 ppm	0.0002 ppm	0.0009 ppm	-0.0005 ppm	0.0167 ppm	-0.0002 ppm
Concentration per Run	0.0000 ppm	0.0005 ppm	0.0001 ppm	0.0010 ppm	0.0007 ppm	0.0041 ppm	0.0005 ppm
Recovery Percentage	1.590 %	4.893 %	1.218 %	8.774 %	0.540 %	0.446 %	2.807 %
Concentration RSD	106.0 %	17.1 %	85.4 %	19.8 %	258.4 %	57.8 %	155.0 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	-0.0002 ppm	0.0000 ppm	0.0102 ppm	0.0053 ppm	0.0008 ppm	0.0001 ppm	0.0003 ppm
Concentration per Run	0.0010 ppm	0.0001 ppm	0.0103 ppm	0.0092 ppm	0.0007 ppm	0.0002 ppm	-0.0002 ppm
Concentration per Run	-0.0014 ppm	0.0000 ppm	0.0105 ppm	0.0057 ppm	0.0008 ppm	0.0004 ppm	0.0016 ppm
Concentration per Run	-0.0002 ppm	-0.0002 ppm	0.0098 ppm	0.0010 ppm	0.0008 ppm	-0.0004 ppm	-0.0005 ppm
Recovery Percentage	-0.218 %	-0.177 %	20.386 %	0.266 %	3.056 %	0.899 %	0.598 %
Concentration RSD	555.2 %	664.2 %	3.5 %	76.9 %	8.0 %	437.4 %	383.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0127 ppm	0.0030 ppm	0.0010 ppm	0.0000 ppm	0.0007 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run	0.0114 ppm	0.0029 ppm	0.0013 ppm	0.0000 ppm	0.0004 ppm	0.0009 ppm	0.0002 ppm
Concentration per Run	0.0134 ppm	0.0024 ppm	0.0008 ppm	0.0000 ppm	0.0009 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0134 ppm	0.0038 ppm	0.0008 ppm	0.0001 ppm	0.0007 ppm	-0.0004 ppm	0.0001 ppm
Recovery Percentage	127.295 %	0.608 %	1.937 %	0.392 %	6.561 %	0.734 %	1.069 %
Concentration RSD	9.1 %	24.1 %	33.8 %	95.2 %	39.9 %	450.5 %	132.8 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0005 ppm	93.8846 %	99.1524 %	94.4807 %	91.4664 %	97.3320 %	94.1755 %
Concentration per Run	-0.0004 ppm	94.0149 %	99.0251 %	94.2149 %	91.7507 %	97.1170 %	93.9657 %
Concentration per Run	-0.0003 ppm	93.6750 %	99.4055 %	94.5383 %	91.3224 %	97.2453 %	94.4390 %
Concentration per Run	-0.0007 ppm	93.9638 %	99.0267 %	94.6888 %	91.3261 %	97.6339 %	94.1219 %
Recovery Percentage	-9.382 %						
Concentration RSD	39.5 %	0.2 %	0.2 %	0.3 %	0.3 %	0.3 %	0.3 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: LLOQ
Analysis started at: 6/27/2025 8:43:20 AM
Rack: 0
Vial: 5
Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0054 ppm	0.1039 ppm	0.0053 ppm	0.0314 ppm	0.0103 ppm	0.0052 ppm	0.1119 ppm
Concentration per Run	0.0056 ppm	0.1038 ppm	0.0050 ppm	0.0307 ppm	0.0103 ppm	0.0052 ppm	0.1134 ppm
Concentration per Run	0.0055 ppm	0.1054 ppm	0.0048 ppm	0.0316 ppm	0.0103 ppm	0.0051 ppm	0.1100 ppm
Concentration per Run	0.0050 ppm	0.1025 ppm	0.0060 ppm	0.0318 ppm	0.0102 ppm	0.0052 ppm	0.1124 ppm
Recovery Percentage	107.351 %	103.902 %	105.372 %	104.588 %	102.758 %	103.283 %	111.942 %
Concentration RSD	5.4 %	1.4 %	12.8 %	1.9 %	0.5 %	1.0 %	1.6 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0042 ppm	0.0105 ppm	0.0103 ppm	0.0108 ppm	0.0663 ppm	2.6543 ppm	0.0113 ppm
Concentration per Run	0.0042 ppm	0.0106 ppm	0.0105 ppm	0.0107 ppm	0.0678 ppm	2.6707 ppm	0.0116 ppm
Concentration per Run	0.0042 ppm	0.0105 ppm	0.0102 ppm	0.0107 ppm	0.0654 ppm	2.6607 ppm	0.0112 ppm
Concentration per Run	0.0043 ppm	0.0104 ppm	0.0103 ppm	0.0110 ppm	0.0656 ppm	2.6315 ppm	0.0111 ppm
Recovery Percentage	105.127 %	104.946 %	103.142 %	107.737 %	132.549 %	106.172 %	112.963 %
Concentration RSD	1.1 %	1.0 %	1.5 %	1.5 %	2.1 %	0.8 %	2.5 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.1056 ppm	0.0105 ppm	0.0508 ppm	2.0831 ppm	0.0212 ppm	0.0101 ppm	0.0521 ppm
Concentration per Run	0.1057 ppm	0.0105 ppm	0.0506 ppm	2.0857 ppm	0.0199 ppm	0.0088 ppm	0.0487 ppm
Concentration per Run	0.1061 ppm	0.0105 ppm	0.0504 ppm	2.0903 ppm	0.0221 ppm	0.0107 ppm	0.0537 ppm
Concentration per Run	0.1051 ppm	0.0104 ppm	0.0513 ppm	2.0732 ppm	0.0214 ppm	0.0108 ppm	0.0539 ppm
Recovery Percentage	105.624 %	104.619 %	101.567 %	104.153 %	105.807 %	100.925 %	104.229 %
Concentration RSD	0.5 %	0.2 %	0.9 %	0.4 %	5.4 %	11.1 %	5.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0115 ppm	0.5342 ppm	0.0536 ppm	0.0102 ppm	0.0105 ppm	0.0182 ppm	0.0100 ppm
Concentration per Run	0.0115 ppm	0.5317 ppm	0.0536 ppm	0.0103 ppm	0.0105 ppm	0.0177 ppm	0.0100 ppm
Concentration per Run	0.0109 ppm	0.5374 ppm	0.0542 ppm	0.0101 ppm	0.0104 ppm	0.0182 ppm	0.0101 ppm
Concentration per Run	0.0120 ppm	0.5334 ppm	0.0531 ppm	0.0102 ppm	0.0107 ppm	0.0186 ppm	0.0101 ppm
Recovery Percentage	114.800 %	106.833 %	107.229 %	101.957 %	105.406 %	90.909 %	100.414 %
Concentration RSD	4.5 %	0.5 %	1.0 %	0.5 %	1.0 %	2.5 %	0.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0055 ppm	96.6098 %	101.2235 %	98.0061 %	91.7487 %	98.6376 %	95.2824 %
Concentration per Run	0.0053 ppm	97.2681 %	102.0812 %	98.4409 %	92.3191 %	99.4693 %	95.6613 %
Concentration per Run	0.0057 ppm	96.0289 %	100.5308 %	97.6292 %	91.0240 %	98.2405 %	95.0779 %
Concentration per Run	0.0056 ppm	96.5325 %	101.0584 %	97.9481 %	91.9028 %	98.2028 %	95.1081 %
Recovery Percentage	110.962 %						
Concentration RSD	3.3 %	0.6 %	0.8 %	0.4 %	0.7 %	0.7 %	0.3 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: ICSA
Analysis started at: 6/27/2025 8:46:51 AM
Rack: 0
Vial: 6
Comment: LDR +/-10%

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0027 ppm	514.0434 [SIC 1000]	-0.0009 ppm	-0.0011 ppm	0.0020 ppm	0.0001 ppm	462.0036 ppm
Concentration per Run	0.0029 ppm	511.5755 ppm	0.0008 ppm	-0.0026 ppm	0.0020 ppm	0.0001 ppm	463.1849 ppm
Concentration per Run	0.0026 ppm	515.3937 ppm	0.0011 ppm	-0.0016 ppm	0.0021 ppm	0.0001 ppm	458.9886 ppm
Concentration per Run	0.0026 ppm	515.1610 ppm	-0.0045 ppm	0.0011 ppm	0.0020 ppm	0.0001 ppm	463.8375 ppm
Recovery Percentage	53.722 %	514,043.414 %	-17.280 %	-3.502 %	20.278 %	1.431 %	462,003.629 %
Concentration RSD	5.5 %	0.4 %	368.4 %	180.9 %	2.4 %	20.5 %	0.6 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0033 ppm	-0.0006 ppm	0.0004 ppm	-0.0090 ppm	180.8355 ppm	0.0390 ppm	0.0004 ppm
Concentration per Run	-0.0033 ppm	-0.0003 ppm	0.0001 ppm	-0.0087 ppm	181.3980 ppm	0.0366 ppm	0.0003 ppm
Concentration per Run	-0.0033 ppm	-0.0010 ppm	0.0004 ppm	-0.0089 ppm	179.2419 ppm	0.0407 ppm	-0.0001 ppm
Concentration per Run	-0.0033 ppm	-0.0004 ppm	0.0007 ppm	-0.0094 ppm	181.8664 ppm	0.0397 ppm	0.0008 ppm
Recovery Percentage	-82.590 %	-5.518 %	4.038 %	-89.763 %	361,670.902 %	1.559 %	3.522 %
Concentration RSD	1.4 %	67.9 %	73.7 %	4.2 %	0.8 %	5.5 %	129.1 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	463.7378 ppm	0.0018 ppm	0.0018 ppm	0.0196 ppm	0.0011 ppm	-0.0190 ppm	-0.0022 ppm
Concentration per Run	459.7566 ppm	0.0016 ppm	0.0006 ppm	0.0197 ppm	0.0014 ppm	-0.0189 ppm	-0.0050 ppm
Concentration per Run	464.3322 ppm	0.0019 ppm	0.0025 ppm	0.0196 ppm	0.0010 ppm	-0.0192 ppm	0.0039 ppm
Concentration per Run	467.1245 ppm	0.0019 ppm	0.0023 ppm	0.0195 ppm	0.0008 ppm	-0.0189 ppm	-0.0055 ppm
Recovery Percentage	463,737.778 %	17.993 %	3.658 %	0.981 %	4.337 %	-189.976 %	-4.487 %
Concentration RSD	0.8 %	8.7 %	57.4 %	0.5 %	27.9 %	0.7 %	235.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0009 ppm	-0.0160 ppm	0.0004 ppm	0.0096 ppm	0.0009 ppm	0.0027 ppm	-0.0009 ppm
Concentration per Run	0.0017 ppm	-0.0161 ppm	0.0006 ppm	0.0096 ppm	0.0011 ppm	0.0033 ppm	-0.0011 ppm
Concentration per Run	-0.0001 ppm	-0.0197 ppm	0.0004 ppm	0.0097 ppm	0.0009 ppm	0.0017 ppm	-0.0007 ppm
Concentration per Run	0.0012 ppm	-0.0120 ppm	0.0001 ppm	0.0096 ppm	0.0006 ppm	0.0032 ppm	-0.0008 ppm
Recovery Percentage	9.409 %	-3.191 %	0.803 %	96.224 %	8.782 %	13.655 %	-8.832 %
Concentration RSD	96.4 %	24.1 %	60.3 %	0.7 %	27.4 %	32.3 %	20.6 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0015 ppm	89.3072 %	92.4767 %	79.6468 %	81.9265 %	92.6786 %	83.0102 %
Concentration per Run	-0.0013 ppm	88.9693 %	92.5569 %	79.4770 %	81.4125 %	92.4668 %	82.7955 %
Concentration per Run	-0.0017 ppm	89.8085 %	92.6122 %	79.9251 %	82.3391 %	92.9373 %	83.1815 %
Concentration per Run	-0.0016 ppm	89.1437 %	92.2609 %	79.5382 %	82.0279 %	92.6316 %	83.0535 %
Recovery Percentage	-30.266 %						
Concentration RSD	11.9 %	0.5 %	0.2 %	0.3 %	0.6 %	0.3 %	0.2 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: SIC Multi
Analysis started at: 6/27/2025 8:51:46 AM
Rack: 0
Vial: 7
Comment: LDR +/-10%

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0003 ppm	0.0460 ppm	-0.0076 ppm	0.0022 ppm	0.0001 ppm	-0.0021 ppm	0.0216 ppm
Concentration per Run	-0.0004 ppm	0.0453 ppm	-0.0066 ppm	0.0021 ppm	0.0001 ppm	-0.0020 ppm	0.0240 ppm
Concentration per Run	0.0001 ppm	0.0462 ppm	-0.0073 ppm	0.0020 ppm	0.0002 ppm	-0.0019 ppm	0.0209 ppm
Concentration per Run	-0.0005 ppm	0.0464 ppm	-0.0089 ppm	0.0025 ppm	0.0002 ppm	-0.0023 ppm	0.0200 ppm
Recovery Percentage	-5.438 %	45.956 %	-151.694 %	7.344 %	1.456 %	-41.353 %	21.642 %
Concentration RSD	108.1 %	1.3 %	15.7 %	12.0 %	24.1 %	8.8 %	9.8 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0002 ppm	-0.0019 ppm	20.1070 ppm	-0.0009 ppm	0.0302 ppm	0.0019 ppm	0.0004 ppm
Concentration per Run	-0.0001 ppm	-0.0017 ppm	20.0676 ppm	-0.0012 ppm	0.0306 ppm	0.0101 ppm	0.0000 ppm
Concentration per Run	-0.0003 ppm	-0.0018 ppm	20.2285 ppm	-0.0007 ppm	0.0308 ppm	-0.0024 ppm	0.0005 ppm
Concentration per Run	-0.0001 ppm	-0.0021 ppm	20.0250 ppm	-0.0009 ppm	0.0290 ppm	-0.0021 ppm	0.0006 ppm
Recovery Percentage	-4.076 %	-18.963 %	201,070.187 %	-9.353 %	60.304 %	0.075 %	3.555 %
Concentration RSD	47.4 %	11.7 %	0.5 %	29.7 %	3.2 %	376.7 %	95.4 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0056 ppm	20.2724 [SIC 100]	0.0021 ppm	0.0080 ppm	0.0007 ppm	-0.0008 ppm	0.0068 ppm
Concentration per Run	0.0026 ppm	20.2575 ppm	0.0022 ppm	0.0061 ppm	0.0008 ppm	-0.0009 ppm	0.0053 ppm
Concentration per Run	0.0053 ppm	20.2505 ppm	0.0023 ppm	0.0085 ppm	0.0006 ppm	-0.0007 ppm	0.0052 ppm
Concentration per Run	0.0089 ppm	20.3092 ppm	0.0016 ppm	0.0096 ppm	0.0008 ppm	-0.0007 ppm	0.0098 ppm
Recovery Percentage	5.589 %	202,723.982 %	4.123 %	0.402 %	2.848 %	-7.729 %	13.583 %
Concentration RSD	56.5 %	0.2 %	19.0 %	22.1 %	17.5 %	19.5 %	38.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0025 ppm	0.2334 ppm	-0.0021 ppm	0.0000 ppm	19.7525 ppm	0.0033 ppm	10.1762 [SIC 10]
Concentration per Run	0.0026 ppm	0.2060 ppm	-0.0029 ppm	0.0000 ppm	19.7167 ppm	0.0069 ppm	10.1879 ppm
Concentration per Run	0.0014 ppm	0.2352 ppm	-0.0018 ppm	0.0000 ppm	19.8760 ppm	0.0007 ppm	10.1765 ppm
Concentration per Run	0.0034 ppm	0.2590 ppm	-0.0016 ppm	0.0001 ppm	19.6648 ppm	0.0023 ppm	10.1641 ppm
Recovery Percentage	24.695 %	46.679 %	-4.219 %	0.315 %	197,524.675 %	16.482 %	101,761.652 %
Concentration RSD	39.6 %	11.4 %	33.7 %	82.4 %	0.6 %	97.5 %	0.1 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0019 ppm	97.5639 %	101.4563 %	80.3584 %	91.9009 %	97.7530 %	95.2685 %
Concentration per Run	-0.0020 ppm	97.7186 %	101.3926 %	79.9085 %	92.2743 %	97.4007 %	94.7133 %
Concentration per Run	-0.0017 ppm	97.7471 %	101.3324 %	80.7055 %	91.9246 %	98.3156 %	95.7630 %
Concentration per Run	-0.0020 ppm	97.2259 %	101.6440 %	80.4611 %	91.5038 %	97.5425 %	95.3290 %
Recovery Percentage	-38.289 %						
Concentration RSD	7.9 %	0.3 %	0.2 %	0.5 %	0.4 %	0.5 %	0.6 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: LDR Check
Analysis started at: 6/27/2025 8:56:12 AM
Rack: 0
Vial: 8
Comment: LDR +/-10%

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0018 ppm	-0.0048 ppm	5.7646 ppm	5.2900 [SIC 20]	9.9762 ppm	0.0015 ppm	0.0174 ppm
Concentration per Run	0.0015 ppm	-0.0052 ppm	5.7480 ppm	5.2854 ppm	10.0333 ppm	0.0015 ppm	0.0174 ppm
Concentration per Run	0.0018 ppm	-0.0075 ppm	5.7963 ppm	5.2595 ppm	9.9486 ppm	0.0015 ppm	0.0165 ppm
Concentration per Run	0.0020 ppm	-0.0017 ppm	5.7495 ppm	5.3252 ppm	9.9466 ppm	0.0015 ppm	0.0182 ppm
Recovery Percentage			115.292 %	105.800 %	99.762 %		0.000 %
Concentration RSD	13.2 %	61.1 %	0.5 %	0.6 %	0.5 %	1.4 %	4.9 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0013 ppm	0.0026 ppm	0.0006 ppm	20.2925 [SIC 40]	0.0095 ppm	310.8228 ppm	5.1994 ppm
Concentration per Run	0.0012 ppm	0.0022 ppm	0.0009 ppm	20.2893 ppm	0.0099 ppm	309.3172 ppm	5.2012 ppm
Concentration per Run	0.0013 ppm	0.0028 ppm	0.0005 ppm	20.2439 ppm	0.0099 ppm	311.4953 ppm	5.2012 ppm
Concentration per Run	0.0014 ppm	0.0027 ppm	0.0005 ppm	20.3442 ppm	0.0086 ppm	311.6558 ppm	5.1958 ppm
Recovery Percentage	0.000 %	0.000 %		101.462 %	0.000 %	103.608 %	103.988 %
Concentration RSD	6.3 %	13.7 %	35.6 %	0.2 %	7.9 %	0.4 %	0.1 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0003 ppm	0.0016 ppm	5.1462 [SIC 20]	455.2755 ppm	10.2507 [SIC 50]	50.4152 ppm	0.0147 ppm
Concentration per Run	0.0018 ppm	0.0017 ppm	5.1518 ppm	449.7656 ppm	10.2926 ppm	50.2992 ppm	0.0158 ppm
Concentration per Run	-0.0008 ppm	0.0016 ppm	5.1445 ppm	458.2533 ppm	10.1921 ppm	50.4778 ppm	0.0145 ppm
Concentration per Run	0.0000 ppm	0.0015 ppm	5.1423 ppm	457.8078 ppm	10.2674 ppm	50.4687 ppm	0.0138 ppm
Recovery Percentage		0.000 %	102.924 %	91.055 %	102.507 %	100.830 %	0.000 %
Concentration RSD	385.0 %	5.7 %	0.1 %	1.0 %	0.5 %	0.2 %	6.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0025 ppm	22.5245 [SIC 200]	0.0030 ppm	0.0018 ppm	0.0177 ppm	-0.0004 ppm	-0.0039 ppm
Concentration per Run	0.0027 ppm	22.4905 ppm	0.0034 ppm	0.0018 ppm	0.0194 ppm	0.0005 ppm	-0.0040 ppm
Concentration per Run	0.0020 ppm	22.4552 ppm	0.0036 ppm	0.0018 ppm	0.0173 ppm	-0.0001 ppm	-0.0042 ppm
Concentration per Run	0.0028 ppm	22.6277 ppm	0.0021 ppm	0.0017 ppm	0.0163 ppm	-0.0017 ppm	-0.0037 ppm
Recovery Percentage	0.000 %	112.622 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	18.3 %	0.4 %	26.9 %	3.2 %	9.1 %	270.6 %	6.7 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	20.0515 [SIC 20]	90.6434 %	95.7385 %	86.7453 %	85.1141 %	92.0337 %	84.8474 %
Concentration per Run	20.2486 ppm	90.5230 %	95.6055 %	87.2241 %	84.8129 %	91.6187 %	84.9173 %
Concentration per Run	19.9618 ppm	90.8875 %	95.7060 %	86.3167 %	85.3411 %	92.0473 %	84.6460 %
Concentration per Run	19.9440 ppm	90.5198 %	95.9040 %	86.6952 %	85.1885 %	92.4350 %	84.9790 %
Recovery Percentage	100.257 %						
Concentration RSD	0.9 %	0.2 %	0.2 %	0.5 %	0.3 %	0.4 %	0.2 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: LLOQ 0.05ppm Fe
 Analysis started at: 6/27/2025 9:37:50 AM
 Rack: 1
 Vial: 1
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0523 ppm	0.0513 ppm	0.0479 ppm	0.0490 ppm	0.0516 ppm	0.0515 ppm	0.0528 ppm
Concentration per Run	0.0524 ppm	0.0495 ppm	0.0490 ppm	0.0501 ppm	0.0517 ppm	0.0515 ppm	0.0526 ppm
Concentration per Run	0.0524 ppm	0.0538 ppm	0.0473 ppm	0.0480 ppm	0.0516 ppm	0.0515 ppm	0.0534 ppm
Concentration per Run	0.0521 ppm	0.0507 ppm	0.0475 ppm	0.0488 ppm	0.0516 ppm	0.0515 ppm	0.0523 ppm
Recovery Percentage	0.000 %	102.690 %	0.000 %	0.000 %	0.000 %	0.000 %	105.522 %
Concentration RSD	0.3 %	4.2 %	2.0 %	2.1 %	0.1 %	0.0 %	1.1 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0494 ppm	0.0516 ppm	0.0515 ppm	0.0514 ppm	0.0531 ppm	0.6004 ppm	0.0532 ppm
Concentration per Run	0.0495 ppm	0.0517 ppm	0.0517 ppm	0.0515 ppm	0.0537 ppm	0.6141 ppm	0.0531 ppm
Concentration per Run	0.0493 ppm	0.0514 ppm	0.0511 ppm	0.0516 ppm	0.0528 ppm	0.6047 ppm	0.0530 ppm
Concentration per Run	0.0493 ppm	0.0516 ppm	0.0517 ppm	0.0512 ppm	0.0528 ppm	0.5822 ppm	0.0535 ppm
Recovery Percentage	0.000 %	0.000 %	0.000 %	0.000 %	106.159 %	24.014 %	0.000 %
Concentration RSD	0.2 %	0.3 %	0.7 %	0.4 %	0.9 %	2.7 %	0.5 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0523 ppm	0.0517 ppm	0.0510 ppm	1.0871 ppm	0.0526 ppm	0.0508 ppm	0.0520 ppm
Concentration per Run	0.0531 ppm	0.0516 ppm	0.0507 ppm	1.0849 ppm	0.0535 ppm	0.0502 ppm	0.0508 ppm
Concentration per Run	0.0516 ppm	0.0516 ppm	0.0505 ppm	1.0856 ppm	0.0515 ppm	0.0515 ppm	0.0509 ppm
Concentration per Run	0.0520 ppm	0.0518 ppm	0.0519 ppm	1.0907 ppm	0.0527 ppm	0.0508 ppm	0.0543 ppm
Recovery Percentage	104.522 %	0.000 %	0.000 %	108.705 %	0.000 %	0.000 %	104.003 %
Concentration RSD	1.5 %	0.3 %	1.5 %	0.3 %	1.9 %	1.3 %	3.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0447 ppm	0.5460 ppm	0.0545 ppm	0.0516 ppm	0.0518 ppm	0.0496 ppm	0.0514 ppm
Concentration per Run	0.0455 ppm	0.5472 ppm	0.0563 ppm	0.0516 ppm	0.0522 ppm	0.0504 ppm	0.0517 ppm
Concentration per Run	0.0439 ppm	0.5432 ppm	0.0530 ppm	0.0515 ppm	0.0512 ppm	0.0500 ppm	0.0510 ppm
Concentration per Run	0.0447 ppm	0.5475 ppm	0.0543 ppm	0.0517 ppm	0.0520 ppm	0.0484 ppm	0.0514 ppm
Recovery Percentage	0.000 %	109.193 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	1.8 %	0.4 %	3.1 %	0.2 %	1.1 %	2.2 %	0.7 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0500 ppm	104.9791 %	102.1655 %	104.2289 %	101.3598 %	100.2437 %	101.2099 %
Concentration per Run	0.0505 ppm	104.1164 %	102.6342 %	103.6469 %	101.2596 %	101.4839 %	100.6015 %
Concentration per Run	0.0495 ppm	105.8441 %	101.6733 %	104.6609 %	101.9507 %	99.0855 %	101.7936 %
Concentration per Run	0.0500 ppm	104.9768 %	102.1889 %	104.3787 %	100.8691 %	100.1617 %	101.2347 %
Recovery Percentage	100.010 %						
Concentration RSD	1.0 %	0.8 %	0.5 %	0.5 %	0.5 %	1.2 %	0.6 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: IEC 20 Cr +Sb
 Analysis started at: 6/27/2025 9:41:26 AM
 Rack: 1
 Vial: 2
 Comment: LDR +/-10%

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	0.0030 ppm	-0.0011 ppm	-0.0011 ppm	0.0006 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run	0.0003 ppm	0.0055 ppm	-0.0020 ppm	-0.0009 ppm	0.0006 ppm	0.0000 ppm	0.0031 ppm
Concentration per Run	0.0003 ppm	0.0000 ppm	-0.0008 ppm	-0.0014 ppm	0.0007 ppm	0.0000 ppm	-0.0007 ppm
Concentration per Run	0.0005 ppm	0.0035 ppm	-0.0003 ppm	-0.0009 ppm	0.0006 ppm	0.0000 ppm	-0.0019 ppm
Recovery Percentage	7.604 %	2.996 %	-21.081 %	-3.502 %	6.275 %	0.541 %	0.175 %
Concentration RSD	33.7 %	92.5 %	83.9 %	26.2 %	4.7 %	59.2 %	1,480.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	-0.0002 ppm	-0.0009 ppm	21.2798 ppm	-0.0004 ppm	0.0267 ppm	0.0482 ppm	0.0000 ppm
Concentration per Run	-0.0002 ppm	-0.0007 ppm	21.3985 ppm	-0.0007 ppm	0.0263 ppm	0.0499 ppm	0.0001 ppm
Concentration per Run	-0.0003 ppm	-0.0006 ppm	21.1751 ppm	-0.0001 ppm	0.0266 ppm	0.0573 ppm	-0.0002 ppm
Concentration per Run	-0.0002 ppm	-0.0014 ppm	21.2656 ppm	-0.0006 ppm	0.0271 ppm	0.0374 ppm	0.0001 ppm
Recovery Percentage	-5.353 %	-8.993 %	212,797.542 %	-4.403 %	53.380 %	1.927 %	0.091 %
Concentration RSD	23.4 %	48.0 %	0.5 %	70.0 %	1.5 %	20.9 %	2,087.3 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	-0.0007 ppm	0.0007 ppm	0.0048 ppm	0.0405 ppm	0.0010 ppm	0.0002 ppm	-0.0003 ppm
Concentration per Run	0.0002 ppm	0.0008 ppm	0.0048 ppm	0.0416 ppm	0.0005 ppm	-0.0001 ppm	0.0054 ppm
Concentration per Run	-0.0012 ppm	0.0007 ppm	0.0047 ppm	0.0391 ppm	0.0012 ppm	-0.0001 ppm	-0.0023 ppm
Concentration per Run	-0.0010 ppm	0.0007 ppm	0.0048 ppm	0.0408 ppm	0.0013 ppm	0.0007 ppm	-0.0041 ppm
Recovery Percentage	-0.675 %	7.107 %	9.567 %	2.025 %	3.982 %	1.667 %	-0.645 %
Concentration RSD	118.3 %	7.3 %	1.6 %	3.2 %	41.5 %	254.8 %	1,569.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0051 ppm	0.0084 ppm	0.0014 ppm	0.0009 ppm	-0.0002 ppm	-0.0011 ppm	-0.0053 ppm
Concentration per Run	0.0043 ppm	0.0077 ppm	0.0013 ppm	0.0009 ppm	-0.0002 ppm	-0.0011 ppm	-0.0048 ppm
Concentration per Run	0.0074 ppm	0.0088 ppm	0.0016 ppm	0.0009 ppm	-0.0001 ppm	-0.0021 ppm	-0.0052 ppm
Concentration per Run	0.0034 ppm	0.0087 ppm	0.0013 ppm	0.0009 ppm	-0.0004 ppm	-0.0002 ppm	-0.0060 ppm
Recovery Percentage	50.600 %	1.681 %	2.784 %	8.848 %	-2.298 %	-5.683 %	-53.298 %
Concentration RSD	41.3 %	7.8 %	10.5 %	4.3 %	49.0 %	83.6 %	10.8 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0008 ppm	96.8364 %	102.3271 %	98.2234 %	93.9371 %	101.3427 %	96.2484 %
Concentration per Run	-0.0007 ppm	96.8419 %	102.6637 %	98.0698 %	94.2647 %	101.5568 %	96.3259 %
Concentration per Run	-0.0009 ppm	97.0074 %	101.2416 %	98.5720 %	94.2246 %	100.2740 %	96.3659 %
Concentration per Run	-0.0008 ppm	96.6599 %	103.0759 %	98.0283 %	93.3220 %	102.1974 %	96.0534 %
Recovery Percentage	-16.075 %						
Concentration RSD	12.3 %	0.2 %	0.9 %	0.3 %	0.6 %	1.0 %	0.2 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: LDR 5 As pass
 Analysis started at: 6/27/2025 9:45:19 AM
 Rack: 1
 Vial: 3
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0009 ppm	0.0026 ppm	5.2029 ppm	-0.0022 ppm	0.0000 ppm	0.0000 ppm	0.0051 ppm
Concentration per Run	0.0010 ppm	0.0023 ppm	5.2169 ppm	-0.0023 ppm	0.0000 ppm	0.0000 ppm	0.0071 ppm
Concentration per Run	0.0007 ppm	0.0029 ppm	5.2009 ppm	-0.0013 ppm	0.0000 ppm	0.0000 ppm	0.0037 ppm
Concentration per Run	0.0010 ppm	0.0025 ppm	5.1909 ppm	-0.0030 ppm	0.0000 ppm	0.0000 ppm	0.0046 ppm
Concentration RSD	17.4 %	11.3 %	0.3 %	39.7 %	21,602.7 %	191.2 %	34.8 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0001 ppm	0.0002 ppm	0.0006 ppm	0.0006 ppm	0.0006 ppm	0.0327 ppm	0.0003 ppm
Concentration per Run	-0.0001 ppm	0.0003 ppm	0.0009 ppm	0.0005 ppm	0.0001 ppm	0.0373 ppm	0.0003 ppm
Concentration per Run	-0.0001 ppm	0.0005 ppm	0.0009 ppm	0.0008 ppm	0.0014 ppm	0.0320 ppm	0.0005 ppm
Concentration per Run	-0.0001 ppm	-0.0001 ppm	0.0002 ppm	0.0006 ppm	0.0004 ppm	0.0288 ppm	0.0000 ppm
Concentration RSD	11.5 %	135.4 %	66.3 %	25.5 %	104.1 %	13.1 %	86.8 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0000 ppm	0.0001 ppm	0.0015 ppm	0.0187 ppm	0.0006 ppm	0.0001 ppm	0.0036 ppm
Concentration per Run	0.0002 ppm	0.0001 ppm	0.0017 ppm	0.0192 ppm	0.0002 ppm	0.0000 ppm	0.0040 ppm
Concentration per Run	0.0000 ppm	0.0001 ppm	0.0017 ppm	0.0195 ppm	0.0008 ppm	0.0009 ppm	0.0024 ppm
Concentration per Run	-0.0002 ppm	0.0001 ppm	0.0009 ppm	0.0173 ppm	0.0007 ppm	-0.0005 ppm	0.0043 ppm
Concentration RSD	17,329.4 %	16.4 %	31.4 %	6.3 %	61.8 %	528.4 %	28.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0019 ppm	0.0017 ppm	0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0000 ppm
Concentration per Run	0.0026 ppm	0.0029 ppm	0.0005 ppm	0.0000 ppm	0.0002 ppm	-0.0005 ppm	0.0001 ppm
Concentration per Run	0.0007 ppm	0.0005 ppm	0.0011 ppm	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0000 ppm
Concentration per Run	0.0025 ppm	0.0016 ppm	0.0005 ppm	0.0000 ppm	-0.0001 ppm	0.0008 ppm	-0.0001 ppm
Concentration RSD	56.1 %	71.3 %	47.2 %	1,330.5 %	668.8 %	390.6 %	2,452.0 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0000 ppm	95.7248 %	101.5906 %	97.7849 %	93.0353 %	100.2876 %	95.9650 %
Concentration per Run	-0.0003 ppm	95.8396 %	101.2335 %	96.8791 %	93.3408 %	100.5413 %	95.1008 %
Concentration per Run	0.0000 ppm	95.7851 %	101.7634 %	97.9753 %	92.9756 %	100.1666 %	96.2923 %
Concentration per Run	0.0001 ppm	95.5497 %	101.7748 %	98.5003 %	92.7895 %	100.1551 %	96.5020 %
Concentration RSD	564.6 %	0.2 %	0.3 %	0.8 %	0.3 %	0.2 %	0.8 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: CCV
Analysis started at: 6/27/2025 10:17:01 AM
Rack: 0
Vial: 3
Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.4977 ppm	0.4800 ppm	0.4685 ppm	0.4793 ppm	0.5029 ppm	0.5103 ppm	0.4900 ppm
Concentration per Run	0.4982 ppm	0.4792 ppm	0.4658 ppm	0.4787 ppm	0.5030 ppm	0.5108 ppm	0.4932 ppm
Concentration per Run	0.4969 ppm	0.4781 ppm	0.4702 ppm	0.4747 ppm	0.5014 ppm	0.5107 ppm	0.4882 ppm
Concentration per Run	0.4982 ppm	0.4828 ppm	0.4696 ppm	0.4845 ppm	0.5044 ppm	0.5093 ppm	0.4887 ppm
Recovery Percentage	99.549 %	96.007 %	93.702 %	95.858 %	100.580 %	102.059 %	98.009 %
Concentration RSD	0.2 %	0.5 %	0.5 %	1.0 %	0.3 %	0.2 %	0.6 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.4910 ppm	0.4993 ppm	0.5013 ppm	0.5017 ppm	0.5015 ppm	5.1701 ppm	0.5170 ppm
Concentration per Run	0.4895 ppm	0.4993 ppm	0.5004 ppm	0.5003 ppm	0.5058 ppm	5.2170 ppm	0.5205 ppm
Concentration per Run	0.4954 ppm	0.4988 ppm	0.4988 ppm	0.5006 ppm	0.5005 ppm	5.1611 ppm	0.5105 ppm
Concentration per Run	0.4881 ppm	0.4998 ppm	0.5048 ppm	0.5042 ppm	0.4983 ppm	5.1322 ppm	0.5201 ppm
Recovery Percentage	98.203 %	99.862 %	100.268 %	100.337 %	100.303 %	103.402 %	103.405 %
Concentration RSD	0.8 %	0.1 %	0.6 %	0.4 %	0.8 %	0.8 %	1.1 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.4882 ppm	0.5067 ppm	0.4874 ppm	10.2826 ppm	0.5007 ppm	0.4902 ppm	0.4922 ppm
Concentration per Run	0.4899 ppm	0.5085 ppm	0.4837 ppm	10.2711 ppm	0.4991 ppm	0.4901 ppm	0.4931 ppm
Concentration per Run	0.4864 ppm	0.5045 ppm	0.4896 ppm	10.2691 ppm	0.5001 ppm	0.4903 ppm	0.4961 ppm
Concentration per Run	0.4883 ppm	0.5070 ppm	0.4890 ppm	10.3074 ppm	0.5030 ppm	0.4900 ppm	0.4873 ppm
Recovery Percentage	97.643 %	101.333 %	97.486 %	102.826 %	100.149 %	98.034 %	98.436 %
Concentration RSD	0.4 %	0.4 %	0.7 %	0.2 %	0.4 %	0.0 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.4614 ppm	5.4692 ppm	0.4918 ppm	0.5041 ppm	0.5016 ppm	0.4876 ppm	0.5058 ppm
Concentration per Run	0.4585 ppm	5.4615 ppm	0.4896 ppm	0.5040 ppm	0.5029 ppm	0.4866 ppm	0.5057 ppm
Concentration per Run	0.4628 ppm	5.4592 ppm	0.4914 ppm	0.5030 ppm	0.4998 ppm	0.4876 ppm	0.5053 ppm
Concentration per Run	0.4629 ppm	5.4870 ppm	0.4945 ppm	0.5052 ppm	0.5019 ppm	0.4887 ppm	0.5062 ppm
Recovery Percentage	92.281 %	104.176 %	98.363 %	100.814 %	100.312 %	97.528 %	101.152 %
Concentration RSD	0.6 %	0.3 %	0.5 %	0.2 %	0.3 %	0.2 %	0.1 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4882 ppm	104.7322 %	102.1413 %	102.0577 %	99.4087 %	100.3791 %	99.7778 %
Concentration per Run	0.4872 ppm	105.2961 %	101.7875 %	101.2450 %	100.2577 %	100.4763 %	99.0483 %
Concentration per Run	0.4889 ppm	104.5581 %	102.4979 %	102.3438 %	98.8124 %	100.4117 %	100.0543 %
Concentration per Run	0.4886 ppm	104.3424 %	102.1386 %	102.5843 %	99.1558 %	100.2493 %	100.2307 %
Recovery Percentage	97.646 %						
Concentration RSD	0.2 %	0.5 %	0.3 %	0.7 %	0.8 %	0.1 %	0.6 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: CCB
 Analysis started at: 6/27/2025 10:20:37 AM
 Rack: 0
 Vial: 4
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0004 ppm	0.0011 ppm	0.0023 ppm	0.0003 ppm	0.0000 ppm	0.0001 ppm	-0.0014 ppm
Concentration per Run	0.0005 ppm	0.0043 ppm	0.0026 ppm	0.0011 ppm	0.0001 ppm	0.0001 ppm	-0.0016 ppm
Concentration per Run	0.0007 ppm	0.0010 ppm	0.0021 ppm	0.0004 ppm	0.0001 ppm	0.0001 ppm	-0.0014 ppm
Concentration per Run	0.0001 ppm	-0.0020 ppm	0.0023 ppm	-0.0005 ppm	0.0000 ppm	0.0001 ppm	-0.0013 ppm
Recovery Percentage	8.471 %	1.118 %	46.371 %	1.093 %	0.442 %	1.499 %	-1.427 %
Concentration RSD	69.2 %	281.2 %	10.9 %	253.2 %	39.1 %	16.0 %	8.7 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0001 ppm	0.0000 ppm	0.0001 ppm	0.0006 ppm	0.0003 ppm	0.0093 ppm	0.0000 ppm
Concentration per Run	-0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0007 ppm	-0.0004 ppm	0.0143 ppm	-0.0002 ppm
Concentration per Run	-0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0008 ppm	0.0004 ppm	0.0102 ppm	0.0002 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0010 ppm	0.0035 ppm	-0.0001 ppm
Recovery Percentage	-1.466 %	-0.285 %	1.106 %	6.159 %	0.627 %	0.373 %	-0.296 %
Concentration RSD	40.0 %	6.8 %	74.7 %	35.4 %	218.1 %	58.6 %	689.0 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	-0.0002 ppm	0.0000 ppm	0.0097 ppm	0.0113 ppm	0.0006 ppm	0.0000 ppm	0.0013 ppm
Concentration per Run	-0.0013 ppm	0.0001 ppm	0.0100 ppm	0.0139 ppm	0.0003 ppm	-0.0001 ppm	-0.0004 ppm
Concentration per Run	0.0002 ppm	0.0001 ppm	0.0094 ppm	0.0101 ppm	0.0009 ppm	-0.0003 ppm	0.0001 ppm
Concentration per Run	0.0004 ppm	0.0000 ppm	0.0097 ppm	0.0099 ppm	0.0004 ppm	0.0003 ppm	0.0043 ppm
Recovery Percentage	-0.229 %	0.474 %	19.366 %	0.565 %	2.255 %	-0.351 %	2.646 %
Concentration RSD	400.2 %	134.7 %	3.2 %	20.2 %	55.1 %	837.5 %	193.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0126 ppm	0.0045 ppm	0.0010 ppm	0.0001 ppm	0.0002 ppm	-0.0001 ppm	-0.0001 ppm
Concentration per Run	0.0109 ppm	0.0051 ppm	0.0012 ppm	0.0001 ppm	0.0002 ppm	-0.0001 ppm	0.0002 ppm
Concentration per Run	0.0134 ppm	0.0053 ppm	0.0013 ppm	0.0001 ppm	0.0002 ppm	-0.0002 ppm	-0.0001 ppm
Concentration per Run	0.0135 ppm	0.0031 ppm	0.0005 ppm	0.0001 ppm	0.0004 ppm	-0.0001 ppm	-0.0002 ppm
Recovery Percentage	125.743 %	0.904 %	1.992 %	0.639 %	2.460 %	-0.556 %	-0.584 %
Concentration RSD	11.7 %	26.6 %	46.2 %	12.9 %	47.1 %	42.0 %	335.8 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0004 ppm	93.7383 %	99.5796 %	94.4918 %	91.9419 %	99.1522 %	94.2931 %
Concentration per Run	-0.0003 ppm	93.2168 %	99.8370 %	94.2757 %	91.6300 %	99.3073 %	94.2905 %
Concentration per Run	-0.0005 ppm	93.9624 %	99.4765 %	94.4566 %	91.9314 %	99.2042 %	94.2889 %
Concentration per Run	-0.0003 ppm	94.0356 %	99.4252 %	94.7432 %	92.2645 %	98.9450 %	94.2999 %
Recovery Percentage	-7.394 %						
Concentration RSD	41.2 %	0.5 %	0.2 %	0.2 %	0.3 %	0.2 %	0.0 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: WG2084199-1 WG2084199
Analysis started at: 6/27/2025 11:05:39 AM
Rack: 1
Vial: 5
Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0004 ppm	0.0057 ppm	0.0003 ppm	0.0004 ppm	0.0001 ppm	0.0000 ppm	0.0137 ppm
Concentration per Run	0.0002 ppm	0.0039 ppm	-0.0002 ppm	0.0005 ppm	0.0001 ppm	0.0000 ppm	0.0129 ppm
Concentration per Run	0.0005 ppm	0.0065 ppm	0.0011 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0116 ppm
Concentration per Run	0.0003 ppm	0.0066 ppm	0.0000 ppm	0.0004 ppm	0.0001 ppm	0.0000 ppm	0.0167 ppm
Recovery Percentage	7.050 %	5.650 %	5.555 %	1.171 %	0.844 %	0.362 %	13.722 %
Concentration RSD	36.5 %	27.3 %	248.2 %	67.7 %	25.9 %	3.2 %	19.1 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0006 ppm	-0.0003 ppm	0.0105 ppm	0.0362 ppm	0.0007 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0004 ppm	-0.0003 ppm	0.0103 ppm	0.0307 ppm	0.0009 ppm
Concentration per Run	-0.0001 ppm	0.0000 ppm	0.0006 ppm	-0.0006 ppm	0.0110 ppm	0.0389 ppm	0.0003 ppm
Concentration per Run	0.0000 ppm	-0.0002 ppm	0.0008 ppm	-0.0001 ppm	0.0104 ppm	0.0388 ppm	0.0009 ppm
Recovery Percentage	-0.843 %	-0.621 %	6.045 %	-3.486 %	21.076 %	1.446 %	6.892 %
Concentration RSD	78.6 %	227.9 %	32.4 %	69.2 %	3.5 %	13.0 %	53.6 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0041 ppm	0.0006 ppm	0.0025 ppm	0.0271 ppm	-0.0001 ppm	-0.0001 ppm	0.0007 ppm
Concentration per Run	0.0035 ppm	0.0005 ppm	0.0026 ppm	0.0259 ppm	-0.0003 ppm	0.0006 ppm	-0.0007 ppm
Concentration per Run	0.0036 ppm	0.0006 ppm	0.0024 ppm	0.0277 ppm	0.0001 ppm	-0.0004 ppm	0.0018 ppm
Concentration per Run	0.0053 ppm	0.0005 ppm	0.0026 ppm	0.0278 ppm	-0.0003 ppm	-0.0005 ppm	0.0011 ppm
Recovery Percentage	4.131 %	5.653 %	5.041 %	1.357 %	-0.548 %	-1.248 %	1.435 %
Concentration RSD	24.7 %	6.5 %	3.5 %	4.1 %	180.7 %	475.8 %	180.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0029 ppm	0.0156 ppm	0.0122 ppm	0.0000 ppm	0.0003 ppm	-0.0003 ppm	0.0000 ppm
Concentration per Run	0.0026 ppm	0.0150 ppm	0.0121 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run	0.0026 ppm	0.0148 ppm	0.0124 ppm	0.0000 ppm	0.0003 ppm	-0.0009 ppm	-0.0002 ppm
Concentration per Run	0.0034 ppm	0.0169 ppm	0.0121 ppm	0.0001 ppm	0.0003 ppm	0.0000 ppm	0.0002 ppm
Recovery Percentage	28.891 %	3.113 %	24.379 %	0.425 %	2.581 %	-1.494 %	0.464 %
Concentration RSD	15.8 %	7.7 %	1.7 %	27.0 %	46.0 %	166.1 %	450.7 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0017 ppm	108.0908 %	103.4894 %	103.7283 %	101.3443 %	102.3631 %	101.2290 %
Concentration per Run	0.0016 ppm	108.4509 %	103.4489 %	103.6061 %	101.2382 %	103.5567 %	100.7961 %
Concentration per Run	0.0017 ppm	108.5674 %	103.6794 %	103.8855 %	102.1106 %	101.5454 %	101.3357 %
Concentration per Run	0.0019 ppm	107.2541 %	103.3400 %	103.6933 %	100.6841 %	101.9873 %	101.5552 %
Recovery Percentage	34.876 %						
Concentration RSD	6.7 %	0.7 %	0.2 %	0.1 %	0.7 %	1.0 %	0.4 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: WG2084199-2D2 WG2084199
 Analysis started at: 6/27/2025 11:09:16 AM
 Rack: 1
 Vial: 6
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0588 ppm	2.2723 ppm	0.1257 ppm	1.0726 ppm	2.2697 ppm	0.0576 ppm	10.4791 ppm
Concentration per Run	0.0589 ppm	2.2840 ppm	0.1257 ppm	1.0741 ppm	2.2678 ppm	0.0578 ppm	10.4794 ppm
Concentration per Run	0.0592 ppm	2.2774 ppm	0.1251 ppm	1.0785 ppm	2.2783 ppm	0.0577 ppm	10.4471 ppm
Concentration per Run	0.0584 ppm	2.2555 ppm	0.1264 ppm	1.0651 ppm	2.2629 ppm	0.0574 ppm	10.5108 ppm
Concentration RSD	0.7 %	0.7 %	0.5 %	0.6 %	0.3 %	0.3 %	0.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0537 ppm	0.5684 ppm	0.2308 ppm	0.2891 ppm	1.1441 ppm	10.7297 ppm	0.0002 ppm
Concentration per Run	0.0543 ppm	0.5718 ppm	0.2308 ppm	0.2891 ppm	1.1465 ppm	10.7478 ppm	0.0001 ppm
Concentration per Run	0.0534 ppm	0.5682 ppm	0.2329 ppm	0.2893 ppm	1.1455 ppm	10.7789 ppm	0.0003 ppm
Concentration per Run	0.0534 ppm	0.5651 ppm	0.2286 ppm	0.2889 ppm	1.1403 ppm	10.6622 ppm	0.0002 ppm
Concentration RSD	1.0 %	0.6 %	0.9 %	0.1 %	0.3 %	0.6 %	54.2 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	10.6692 ppm	0.5626 ppm	1.0606 ppm	11.1537 ppm	0.5853 ppm	0.5397 ppm	0.5278 ppm
Concentration per Run	10.6861 ppm	0.5637 ppm	1.0590 ppm	11.1509 ppm	0.5869 ppm	0.5399 ppm	0.5310 ppm
Concentration per Run	10.7329 ppm	0.5627 ppm	1.0604 ppm	11.2214 ppm	0.5877 ppm	0.5421 ppm	0.5275 ppm
Concentration per Run	10.5885 ppm	0.5614 ppm	1.0623 ppm	11.0889 ppm	0.5812 ppm	0.5370 ppm	0.5249 ppm
Concentration RSD	0.7 %	0.2 %	0.2 %	0.6 %	0.6 %	0.5 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.1280 ppm	0.9868 ppm	1.0827 [SIC 50]	1.0352 ppm	1.0752 ppm	0.1196 ppm	0.5885 ppm
Concentration per Run	0.1281 ppm	0.9886 ppm	1.0861 ppm	1.0340 ppm	1.0737 ppm	0.1180 ppm	0.5893 ppm
Concentration per Run	0.1283 ppm	0.9860 ppm	1.0825 ppm	1.0411 ppm	1.0787 ppm	0.1211 ppm	0.5904 ppm
Concentration per Run	0.1276 ppm	0.9858 ppm	1.0795 ppm	1.0305 ppm	1.0734 ppm	0.1198 ppm	0.5858 ppm
Concentration RSD	0.2 %	0.2 %	0.3 %	0.5 %	0.3 %	1.3 %	0.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5811 ppm	96.9671 %	101.5670 %	94.9304 %	92.1639 %	99.9421 %	93.5532 %
Concentration per Run	0.5859 ppm	97.0459 %	101.8374 %	94.7226 %	92.0550 %	100.9702 %	93.3278 %
Concentration per Run	0.5807 ppm	96.2612 %	101.4989 %	94.7696 %	91.5350 %	101.2342 %	93.4232 %
Concentration per Run	0.5767 ppm	97.5943 %	101.3647 %	95.2989 %	92.9018 %	97.6218 %	93.9086 %
Concentration RSD	0.8 %	0.7 %	0.2 %	0.3 %	0.7 %	2.0 %	0.3 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: L2539747-01D2 WG2084199
 Analysis started at: 6/27/2025 11:12:40 AM
 Rack: 1
 Vial: 12
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0015 ppm	16.1933 ppm	0.0282 ppm	0.0055 ppm	0.0355 ppm	0.0011 ppm	1.0057 ppm
Concentration per Run	0.0014 ppm	16.2424 ppm	0.0291 ppm	0.0058 ppm	0.0359 ppm	0.0011 ppm	1.0141 ppm
Concentration per Run	0.0014 ppm	16.1234 ppm	0.0292 ppm	0.0059 ppm	0.0354 ppm	0.0010 ppm	1.0172 ppm
Concentration per Run	0.0016 ppm	16.2143 ppm	0.0264 ppm	0.0048 ppm	0.0353 ppm	0.0011 ppm	0.9858 ppm
Concentration RSD	8.0 %	0.4 %	5.7 %	10.7 %	0.8 %	2.1 %	1.7 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0004 ppm	0.0011 ppm	0.1052 ppm	0.0113 ppm	68.8884 ppm	1.6042 ppm	0.0022 ppm
Concentration per Run	-0.0004 ppm	0.0010 ppm	0.1057 ppm	0.0114 ppm	68.9631 ppm	1.6253 ppm	0.0024 ppm
Concentration per Run	-0.0003 ppm	0.0011 ppm	0.1046 ppm	0.0113 ppm	69.0521 ppm	1.5983 ppm	0.0021 ppm
Concentration per Run	-0.0004 ppm	0.0013 ppm	0.1052 ppm	0.0111 ppm	68.6501 ppm	1.5891 ppm	0.0023 ppm
Concentration RSD	14.9 %	14.1 %	0.5 %	1.3 %	0.3 %	1.2 %	7.7 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.6525 ppm	0.0311 ppm	0.0325 ppm	0.0771 ppm	0.0035 ppm	0.0180 ppm	0.0058 ppm
Concentration per Run	0.6597 ppm	0.0313 ppm	0.0333 ppm	0.0771 ppm	0.0038 ppm	0.0170 ppm	0.0059 ppm
Concentration per Run	0.6496 ppm	0.0313 ppm	0.0324 ppm	0.0762 ppm	0.0029 ppm	0.0190 ppm	0.0059 ppm
Concentration per Run	0.6482 ppm	0.0307 ppm	0.0318 ppm	0.0779 ppm	0.0039 ppm	0.0181 ppm	0.0056 ppm
Concentration RSD	1.0 %	1.2 %	2.3 %	1.1 %	15.8 %	5.4 %	3.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0060 ppm	11.7942 [SIC 200]	0.0056 ppm	0.0094 ppm	0.5460 ppm	0.0004 ppm	0.0830 ppm
Concentration per Run	0.0050 ppm	11.9501 ppm	0.0051 ppm	0.0092 ppm	0.5259 ppm	0.0000 ppm	0.0836 ppm
Concentration per Run	0.0071 ppm	11.8704 ppm	0.0059 ppm	0.0094 ppm	0.5571 ppm	0.0008 ppm	0.0829 ppm
Concentration per Run	0.0058 ppm	11.5622 ppm	0.0058 ppm	0.0096 ppm	0.5549 ppm	0.0005 ppm	0.0825 ppm
Concentration RSD	17.9 %	1.7 %	7.5 %	2.0 %	3.2 %	85.0 %	0.7 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0280 ppm	99.8779 %	104.3670 %	97.7483 %	102.3528 %	111.8067 %	104.8400 %
Concentration per Run	0.0282 ppm	99.5604 %	104.3719 %	97.5950 %	102.0635 %	111.6011 %	104.3599 %
Concentration per Run	0.0282 ppm	99.8773 %	104.1254 %	97.5597 %	102.1844 %	109.8256 %	104.9618 %
Concentration per Run	0.0276 ppm	100.1960 %	104.6037 %	98.0901 %	102.8105 %	113.9933 %	105.1982 %
Concentration RSD	1.2 %	0.3 %	0.2 %	0.3 %	0.4 %	1.9 %	0.4 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: L2539747-02D2 WG2084199
 Analysis started at: 6/27/2025 11:16:06 AM
 Rack: 1
 Vial: 13
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0010 ppm	23.0320 ppm	0.0324 ppm	0.0061 ppm	0.1394 ppm	0.0014 ppm	1.9843 ppm
Concentration per Run	0.0009 ppm	23.0633 ppm	0.0329 ppm	0.0051 ppm	0.1410 ppm	0.0014 ppm	1.9895 ppm
Concentration per Run	0.0008 ppm	22.9916 ppm	0.0324 ppm	0.0056 ppm	0.1383 ppm	0.0013 ppm	1.9732 ppm
Concentration per Run	0.0011 ppm	23.0409 ppm	0.0318 ppm	0.0076 ppm	0.1389 ppm	0.0014 ppm	1.9902 ppm
Concentration RSD	16.8 %	0.2 %	1.7 %	21.5 %	1.0 %	3.5 %	0.5 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0001 ppm	0.0090 ppm	0.0573 ppm	0.0341 ppm	48.3385 ppm	1.6527 ppm	0.0197 ppm
Concentration per Run	0.0001 ppm	0.0086 ppm	0.0575 ppm	0.0339 ppm	48.4717 ppm	1.6727 ppm	0.0205 ppm
Concentration per Run	0.0001 ppm	0.0090 ppm	0.0569 ppm	0.0344 ppm	48.1761 ppm	1.6269 ppm	0.0198 ppm
Concentration per Run	0.0001 ppm	0.0094 ppm	0.0576 ppm	0.0341 ppm	48.3676 ppm	1.6586 ppm	0.0188 ppm
Concentration RSD	17.8 %	4.5 %	0.6 %	0.7 %	0.3 %	1.4 %	4.4 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	3.3264 ppm	0.3496 ppm	0.0057 ppm	0.0868 ppm	0.0233 ppm	0.2036 ppm	0.0040 ppm
Concentration per Run	3.3316 ppm	0.3507 ppm	0.0058 ppm	0.0901 ppm	0.0235 ppm	0.2038 ppm	0.0036 ppm
Concentration per Run	3.3214 ppm	0.3481 ppm	0.0056 ppm	0.0859 ppm	0.0235 ppm	0.2045 ppm	0.0039 ppm
Concentration per Run	3.3262 ppm	0.3502 ppm	0.0056 ppm	0.0843 ppm	0.0230 ppm	0.2026 ppm	0.0044 ppm
Concentration RSD	0.2 %	0.4 %	2.4 %	3.5 %	1.3 %	0.5 %	11.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0037 ppm	8.5303 ppm	0.0070 ppm	0.0122 ppm	0.4573 ppm	-0.0001 ppm	0.0789 ppm
Concentration per Run	0.0048 ppm	8.7079 ppm	0.0065 ppm	0.0124 ppm	0.4516 ppm	-0.0018 ppm	0.0790 ppm
Concentration per Run	0.0032 ppm	8.5155 ppm	0.0064 ppm	0.0121 ppm	0.4655 ppm	0.0007 ppm	0.0790 ppm
Concentration per Run	0.0033 ppm	8.3676 ppm	0.0080 ppm	0.0122 ppm	0.4548 ppm	0.0007 ppm	0.0787 ppm
Concentration RSD	23.3 %	2.0 %	13.1 %	1.4 %	1.6 %	1,012.4 %	0.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1363 ppm	96.5375 %	102.4205 %	95.5752 %	94.9055 %	104.2400 %	98.0080 %
Concentration per Run	0.1365 ppm	96.6328 %	102.3384 %	95.4788 %	94.7777 %	103.8749 %	98.4961 %
Concentration per Run	0.1359 ppm	96.3608 %	102.8556 %	95.5486 %	94.6001 %	104.9621 %	97.6783 %
Concentration per Run	0.1364 ppm	96.6189 %	102.0677 %	95.6982 %	95.3388 %	103.8830 %	97.8496 %
Concentration RSD	0.2 %	0.2 %	0.4 %	0.1 %	0.4 %	0.6 %	0.4 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: L2539747-03D2 WG2084199
 Analysis started at: 6/27/2025 11:19:27 AM
 Rack: 1
 Vial: 14
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0020 ppm	22.5938 ppm	0.0495 ppm	0.0092 ppm	0.4246 ppm	0.0017 ppm	7.1151 ppm
Concentration per Run	0.0020 ppm	22.5692 ppm	0.0509 ppm	0.0085 ppm	0.4261 ppm	0.0017 ppm	7.1481 ppm
Concentration per Run	0.0023 ppm	22.5970 ppm	0.0499 ppm	0.0094 ppm	0.4237 ppm	0.0018 ppm	7.0472 ppm
Concentration per Run	0.0018 ppm	22.6153 ppm	0.0479 ppm	0.0097 ppm	0.4239 ppm	0.0017 ppm	7.1502 ppm
Concentration RSD	13.3 %	0.1 %	3.1 %	6.7 %	0.3 %	1.4 %	0.8 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0073 ppm	0.0123 ppm	0.0912 ppm	0.6234 ppm	63.5893 ppm	1.9297 ppm	0.0200 ppm
Concentration per Run	0.0073 ppm	0.0125 ppm	0.0918 ppm	0.6271 ppm	63.8761 ppm	1.9544 ppm	0.0209 ppm
Concentration per Run	0.0073 ppm	0.0120 ppm	0.0921 ppm	0.6224 ppm	63.1035 ppm	1.9159 ppm	0.0200 ppm
Concentration per Run	0.0073 ppm	0.0123 ppm	0.0897 ppm	0.6207 ppm	63.7884 ppm	1.9186 ppm	0.0191 ppm
Concentration RSD	0.6 %	2.0 %	1.4 %	0.5 %	0.7 %	1.1 %	4.7 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	3.3590 ppm	0.6805 ppm	0.0056 ppm	0.1373 ppm	0.0524 ppm	1.7827 ppm	0.3124 ppm
Concentration per Run	3.4171 ppm	0.6816 ppm	0.0056 ppm	0.1400 ppm	0.0542 ppm	1.7925 ppm	0.3107 ppm
Concentration per Run	3.3669 ppm	0.6774 ppm	0.0058 ppm	0.1385 ppm	0.0523 ppm	1.7775 ppm	0.3107 ppm
Concentration per Run	3.2930 ppm	0.6824 ppm	0.0055 ppm	0.1334 ppm	0.0505 ppm	1.7782 ppm	0.3160 ppm
Concentration RSD	1.9 %	0.4 %	2.2 %	2.5 %	3.5 %	0.5 %	1.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0042 ppm	10.6138 [SIC 200]	0.0616 ppm	0.0497 ppm	0.6951 ppm	0.0003 ppm	0.1481 ppm
Concentration per Run	0.0053 ppm	10.8668 ppm	0.0638 ppm	0.0498 ppm	0.6941 ppm	-0.0005 ppm	0.1494 ppm
Concentration per Run	0.0029 ppm	10.5008 ppm	0.0610 ppm	0.0496 ppm	0.7105 ppm	-0.0001 ppm	0.1478 ppm
Concentration per Run	0.0043 ppm	10.4737 ppm	0.0598 ppm	0.0499 ppm	0.6808 ppm	0.0014 ppm	0.1472 ppm
Concentration RSD	29.0 %	2.1 %	3.4 %	0.3 %	2.1 %	392.3 %	0.8 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.8550 ppm	96.0090 %	101.9899 %	94.5391 %	95.0918 %	104.0716 %	97.9678 %
Concentration per Run	0.8635 ppm	95.4854 %	101.9406 %	94.2927 %	94.8721 %	103.8336 %	98.2356 %
Concentration per Run	0.8522 ppm	96.1462 %	102.7297 %	94.6945 %	95.4875 %	104.9324 %	97.7035 %
Concentration per Run	0.8493 ppm	96.3955 %	101.2993 %	94.6302 %	94.9159 %	103.4486 %	97.9642 %
Concentration RSD	0.9 %	0.5 %	0.7 %	0.2 %	0.4 %	0.7 %	0.3 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: L2539747-09D2 WG2084199
 Analysis started at: 6/27/2025 11:24:50 AM
 Rack: 1
 Vial: 7
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0011 ppm	24.4208 ppm	0.0240 ppm	0.0040 ppm	0.1101 ppm	0.0013 ppm	0.2844 ppm
Concentration per Run	0.0013 ppm	24.3118 ppm	0.0249 ppm	0.0023 ppm	0.1088 ppm	0.0013 ppm	0.2834 ppm
Concentration per Run	0.0011 ppm	24.4598 ppm	0.0243 ppm	0.0045 ppm	0.1116 ppm	0.0013 ppm	0.2860 ppm
Concentration per Run	0.0009 ppm	24.4909 ppm	0.0229 ppm	0.0051 ppm	0.1100 ppm	0.0013 ppm	0.2838 ppm
Concentration RSD	15.9 %	0.4 %	4.3 %	37.6 %	1.3 %	0.2 %	0.5 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0001 ppm	0.0070 ppm	0.0542 ppm	0.0310 ppm	49.0913 ppm	1.3930 ppm	0.0189 ppm
Concentration per Run	0.0000 ppm	0.0073 ppm	0.0547 ppm	0.0312 ppm	48.7841 ppm	1.3991 ppm	0.0192 ppm
Concentration per Run	-0.0001 ppm	0.0067 ppm	0.0541 ppm	0.0307 ppm	49.0674 ppm	1.3867 ppm	0.0186 ppm
Concentration per Run	-0.0002 ppm	0.0070 ppm	0.0539 ppm	0.0311 ppm	49.4224 ppm	1.3933 ppm	0.0189 ppm
Concentration RSD	87.9 %	4.3 %	0.7 %	0.8 %	0.7 %	0.4 %	1.4 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	2.8282 ppm	0.2435 ppm	0.0032 ppm	0.0828 ppm	0.0192 ppm	0.0563 ppm	0.0067 ppm
Concentration per Run	2.8436 ppm	0.2430 ppm	0.0034 ppm	0.0854 ppm	0.0190 ppm	0.0566 ppm	0.0049 ppm
Concentration per Run	2.8363 ppm	0.2438 ppm	0.0031 ppm	0.0813 ppm	0.0189 ppm	0.0564 ppm	0.0080 ppm
Concentration per Run	2.8046 ppm	0.2438 ppm	0.0030 ppm	0.0817 ppm	0.0196 ppm	0.0561 ppm	0.0072 ppm
Concentration RSD	0.7 %	0.2 %	7.0 %	2.7 %	2.0 %	0.4 %	23.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0028 ppm	14.2509 [SIC 200]	0.0059 ppm	0.0077 ppm	0.6496 ppm	-0.0008 ppm	0.0736 ppm
Concentration per Run	0.0052 ppm	14.7443 ppm	0.0062 ppm	0.0076 ppm	0.6539 ppm	-0.0014 ppm	0.0739 ppm
Concentration per Run	0.0021 ppm	14.1231 ppm	0.0059 ppm	0.0077 ppm	0.6642 ppm	-0.0011 ppm	0.0734 ppm
Concentration per Run	0.0013 ppm	13.8852 ppm	0.0056 ppm	0.0077 ppm	0.6307 ppm	0.0002 ppm	0.0735 ppm
Concentration RSD	72.4 %	3.1 %	5.2 %	0.7 %	2.6 %	113.0 %	0.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0853 ppm	97.8685 %	102.5439 %	96.5044 %	95.6079 %	103.2799 %	98.0969 %
Concentration per Run	0.0856 ppm	98.0853 %	103.3249 %	95.9088 %	96.0150 %	103.1092 %	97.6197 %
Concentration per Run	0.0859 ppm	97.4614 %	101.9886 %	96.8385 %	95.2326 %	103.7712 %	98.3450 %
Concentration per Run	0.0843 ppm	98.0588 %	102.3183 %	96.7658 %	95.5761 %	102.9594 %	98.3259 %
Concentration RSD	1.0 %	0.4 %	0.7 %	0.5 %	0.4 %	0.4 %	0.4 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: WG2084199-3D2 WG2084199
 Analysis started at: 6/27/2025 11:28:18 AM
 Rack: 1
 Vial: 8
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0576 ppm	29.5662 ppm	0.1343 ppm	0.9848 ppm	2.3282 ppm	0.0568 ppm	10.1787 ppm
Concentration per Run	0.0576 ppm	29.6304 ppm	0.1349 ppm	0.9844 ppm	2.3306 ppm	0.0569 ppm	10.1350 ppm
Concentration per Run	0.0579 ppm	29.6546 ppm	0.1341 ppm	0.9827 ppm	2.3310 ppm	0.0567 ppm	10.2495 ppm
Concentration per Run	0.0572 ppm	29.4137 ppm	0.1338 ppm	0.9873 ppm	2.3231 ppm	0.0566 ppm	10.1514 ppm
Concentration RSD	0.6 %	0.4 %	0.4 %	0.2 %	0.2 %	0.3 %	0.6 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0516 ppm	0.5583 ppm	0.2720 ppm	0.3150 ppm	44.8510 ppm	11.5401 ppm	0.0236 ppm
Concentration per Run	0.0519 ppm	0.5593 ppm	0.2736 ppm	0.3154 ppm	44.8994 ppm	11.5694 ppm	0.0243 ppm
Concentration per Run	0.0517 ppm	0.5590 ppm	0.2722 ppm	0.3155 ppm	44.8410 ppm	11.5170 ppm	0.0234 ppm
Concentration per Run	0.0513 ppm	0.5566 ppm	0.2703 ppm	0.3142 ppm	44.8126 ppm	11.5338 ppm	0.0232 ppm
Concentration RSD	0.6 %	0.3 %	0.6 %	0.2 %	0.1 %	0.2 %	2.5 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	13.2817 ppm	0.7841 ppm	1.0027 ppm	10.7060 ppm	0.5822 ppm	0.5990 ppm	0.3264 ppm
Concentration per Run	13.2359 ppm	0.7826 ppm	1.0032 ppm	10.7645 ppm	0.5844 ppm	0.5967 ppm	0.3291 ppm
Concentration per Run	13.4835 ppm	0.7865 ppm	1.0013 ppm	10.7039 ppm	0.5824 ppm	0.6021 ppm	0.3269 ppm
Concentration per Run	13.1256 ppm	0.7832 ppm	1.0036 ppm	10.6497 ppm	0.5799 ppm	0.5983 ppm	0.3233 ppm
Concentration RSD	1.4 %	0.3 %	0.1 %	0.5 %	0.4 %	0.5 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.1114 ppm	17.8260 [SIC 200]	0.9679 ppm	0.9923 ppm	1.5044 ppm	0.1143 ppm	0.6375 ppm
Concentration per Run	0.1098 ppm	18.0458 ppm	0.9765 ppm	0.9949 ppm	1.5392 ppm	0.1156 ppm	0.6366 ppm
Concentration per Run	0.1122 ppm	17.7623 ppm	0.9647 ppm	0.9899 ppm	1.5119 ppm	0.1146 ppm	0.6391 ppm
Concentration per Run	0.1121 ppm	17.6698 ppm	0.9624 ppm	0.9920 ppm	1.4620 ppm	0.1127 ppm	0.6369 ppm
Concentration RSD	1.2 %	1.1 %	0.8 %	0.3 %	2.6 %	1.3 %	0.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6615 ppm	95.7142 %	102.1886 %	93.1181 %	93.4656 %	103.3354 %	95.5893 %
Concentration per Run	0.6642 ppm	96.5272 %	102.7061 %	93.2371 %	94.4711 %	104.7741 %	95.4219 %
Concentration per Run	0.6624 ppm	94.9144 %	101.5374 %	93.4349 %	92.6892 %	102.4006 %	95.9048 %
Concentration per Run	0.6578 ppm	95.7010 %	102.3224 %	92.6822 %	93.2365 %	102.8314 %	95.4412 %
Concentration RSD	0.5 %	0.8 %	0.6 %	0.4 %	1.0 %	1.2 %	0.3 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: WG2084199-4D2 WG2084199
 Analysis started at: 6/27/2025 11:31:42 AM
 Rack: 1
 Vial: 9
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0624 ppm	33.0131 ppm	0.1483 ppm	1.0708 ppm	2.5195 ppm	0.0616 ppm	11.1611 ppm
Concentration per Run	0.0621 ppm	33.0830 ppm	0.1463 ppm	1.0797 ppm	2.5213 ppm	0.0619 ppm	11.1096 ppm
Concentration per Run	0.0627 ppm	33.1770 ppm	0.1499 ppm	1.0646 ppm	2.5163 ppm	0.0615 ppm	11.1307 ppm
Concentration per Run	0.0622 ppm	32.7792 ppm	0.1486 ppm	1.0682 ppm	2.5209 ppm	0.0615 ppm	11.2430 ppm
Concentration RSD	0.5 %	0.6 %	1.2 %	0.7 %	0.1 %	0.4 %	0.6 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0553 ppm	0.6021 ppm	0.2953 ppm	0.3428 ppm	51.1454 ppm	12.5644 ppm	0.0256 ppm
Concentration per Run	0.0553 ppm	0.6025 ppm	0.2959 ppm	0.3435 ppm	51.1182 ppm	12.5560 ppm	0.0264 ppm
Concentration per Run	0.0552 ppm	0.6020 ppm	0.2947 ppm	0.3431 ppm	51.2611 ppm	12.6361 ppm	0.0250 ppm
Concentration per Run	0.0553 ppm	0.6017 ppm	0.2955 ppm	0.3419 ppm	51.0570 ppm	12.5011 ppm	0.0253 ppm
Concentration RSD	0.1 %	0.1 %	0.2 %	0.2 %	0.2 %	0.5 %	2.9 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	14.3882 ppm	0.8543 ppm	1.1169 ppm	11.5970 ppm	0.6278 ppm	0.6231 ppm	0.3530 ppm
Concentration per Run	14.4659 ppm	0.8528 ppm	1.1123 ppm	11.6211 ppm	0.6286 ppm	0.6248 ppm	0.3526 ppm
Concentration per Run	14.3881 ppm	0.8555 ppm	1.1150 ppm	11.6935 ppm	0.6263 ppm	0.6235 ppm	0.3531 ppm
Concentration per Run	14.3107 ppm	0.8547 ppm	1.1234 ppm	11.4763 ppm	0.6285 ppm	0.6210 ppm	0.3533 ppm
Concentration RSD	0.5 %	0.2 %	0.5 %	1.0 %	0.2 %	0.3 %	0.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.1261 ppm	18.7787 [SIC 200]	1.0360 [SIC 50]	1.0807 ppm	1.6010 ppm	0.1248 ppm	0.6912 ppm
Concentration per Run	0.1253 ppm	19.3002 ppm	1.0370 ppm	1.0831 ppm	1.6362 ppm	0.1249 ppm	0.6948 ppm
Concentration per Run	0.1271 ppm	18.4615 ppm	1.0389 ppm	1.0825 ppm	1.5643 ppm	0.1254 ppm	0.6897 ppm
Concentration per Run	0.1259 ppm	18.5743 ppm	1.0320 ppm	1.0765 ppm	1.6026 ppm	0.1240 ppm	0.6891 ppm
Concentration RSD	0.7 %	2.4 %	0.3 %	0.3 %	2.2 %	0.6 %	0.5 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7080 ppm	96.3572 %	101.3775 %	92.9371 %	94.1460 %	102.4713 %	95.9688 %
Concentration per Run	0.7091 ppm	96.4605 %	102.0923 %	92.7216 %	94.4203 %	104.2678 %	95.7418 %
Concentration per Run	0.7058 ppm	96.2675 %	101.1987 %	92.7653 %	93.9392 %	102.9148 %	95.9905 %
Concentration per Run	0.7091 ppm	96.3437 %	100.8414 %	93.3244 %	94.0786 %	100.2312 %	96.1741 %
Concentration RSD	0.3 %	0.1 %	0.6 %	0.4 %	0.3 %	2.0 %	0.2 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: WG2084199-5D2 WG2084199
 Analysis started at: 6/27/2025 11:35:07 AM
 Rack: 1
 Vial: 10
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0579 ppm	25.4994 ppm	0.1430 ppm	1.0388 ppm	2.3169 ppm	0.0565 ppm	10.4283 ppm
Concentration per Run	0.0578 ppm	25.4750 ppm	0.1436 ppm	1.0409 ppm	2.3191 ppm	0.0565 ppm	10.4031 ppm
Concentration per Run	0.0583 ppm	25.5073 ppm	0.1418 ppm	1.0379 ppm	2.3099 ppm	0.0566 ppm	10.5203 ppm
Concentration per Run	0.0576 ppm	25.5157 ppm	0.1437 ppm	1.0376 ppm	2.3217 ppm	0.0565 ppm	10.3616 ppm
Concentration RSD	0.6 %	0.1 %	0.8 %	0.2 %	0.3 %	0.1 %	0.8 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0510 ppm	0.5511 ppm	0.2740 ppm	0.3094 ppm	47.5769 ppm	11.7877 ppm	0.0178 ppm
Concentration per Run	0.0510 ppm	0.5518 ppm	0.2729 ppm	0.3108 ppm	47.4969 ppm	11.7832 ppm	0.0182 ppm
Concentration per Run	0.0513 ppm	0.5517 ppm	0.2756 ppm	0.3080 ppm	47.7056 ppm	11.7784 ppm	0.0177 ppm
Concentration per Run	0.0506 ppm	0.5497 ppm	0.2736 ppm	0.3095 ppm	47.5283 ppm	11.8016 ppm	0.0174 ppm
Concentration RSD	0.7 %	0.2 %	0.5 %	0.4 %	0.2 %	0.1 %	2.2 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	12.8941 ppm	0.7754 ppm	1.0457 ppm	10.8154 ppm	0.5750 ppm	0.5724 ppm	0.3936 ppm
Concentration per Run	12.8267 ppm	0.7752 ppm	1.0452 ppm	10.7805 ppm	0.5747 ppm	0.5699 ppm	0.3910 ppm
Concentration per Run	13.1726 ppm	0.7785 ppm	1.0473 ppm	10.8178 ppm	0.5791 ppm	0.5735 ppm	0.3929 ppm
Concentration per Run	12.6830 ppm	0.7724 ppm	1.0445 ppm	10.8478 ppm	0.5713 ppm	0.5736 ppm	0.3969 ppm
Concentration RSD	2.0 %	0.4 %	0.1 %	0.3 %	0.7 %	0.4 %	0.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.1254 ppm	13.0275 [SIC 200]	1.0407 [SIC 50]	1.0115 ppm	1.6362 ppm	0.1170 ppm	0.6323 ppm
Concentration per Run	0.1254 ppm	13.1108 ppm	1.0498 ppm	1.0105 ppm	1.6258 ppm	0.1185 ppm	0.6314 ppm
Concentration per Run	0.1259 ppm	13.0169 ppm	1.0416 ppm	1.0106 ppm	1.6880 ppm	0.1173 ppm	0.6369 ppm
Concentration per Run	0.1250 ppm	12.9548 ppm	1.0308 ppm	1.0134 ppm	1.5948 ppm	0.1152 ppm	0.6286 ppm
Concentration RSD	0.4 %	0.6 %	0.9 %	0.2 %	2.9 %	1.5 %	0.7 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6356 ppm	96.1895 %	101.2016 %	93.0849 %	93.7023 %	101.7167 %	95.3140 %
Concentration per Run	0.6381 ppm	95.9254 %	101.3853 %	92.7528 %	93.2301 %	102.1588 %	94.9331 %
Concentration per Run	0.6379 ppm	95.9004 %	100.7175 %	93.7687 %	93.7454 %	100.9235 %	95.9384 %
Concentration per Run	0.6309 ppm	96.7428 %	101.5019 %	92.7332 %	94.1314 %	102.0678 %	95.0706 %
Concentration RSD	0.6 %	0.5 %	0.4 %	0.6 %	0.5 %	0.7 %	0.6 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: WG2084199-6D10 WG2084199
 Analysis started at: 6/27/2025 11:38:32 AM
 Rack: 1
 Vial: 11
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0005 ppm	4.1174 ppm	0.0037 ppm	0.0018 ppm	0.0186 ppm	0.0002 ppm	0.0517 ppm
Concentration per Run	0.0005 ppm	4.1176 ppm	0.0017 ppm	0.0012 ppm	0.0185 ppm	0.0002 ppm	0.0535 ppm
Concentration per Run	0.0006 ppm	4.1159 ppm	0.0053 ppm	0.0017 ppm	0.0184 ppm	0.0002 ppm	0.0537 ppm
Concentration per Run	0.0003 ppm	4.1187 ppm	0.0042 ppm	0.0024 ppm	0.0188 ppm	0.0002 ppm	0.0479 ppm
Concentration RSD	25.1 %	0.0 %	49.7 %	32.9 %	1.0 %	7.7 %	6.4 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	0.0013 ppm	0.0088 ppm	0.0057 ppm	8.2388 ppm	0.2661 ppm	0.0030 ppm
Concentration per Run	0.0001 ppm	0.0012 ppm	0.0091 ppm	0.0056 ppm	8.2308 ppm	0.2682 ppm	0.0035 ppm
Concentration per Run	0.0000 ppm	0.0011 ppm	0.0084 ppm	0.0057 ppm	8.2376 ppm	0.2660 ppm	0.0026 ppm
Concentration per Run	-0.0001 ppm	0.0016 ppm	0.0090 ppm	0.0059 ppm	8.2479 ppm	0.2643 ppm	0.0028 ppm
Concentration RSD	2,281.5 %	21.5 %	4.2 %	2.4 %	0.1 %	0.7 %	15.7 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.4750 ppm	0.0403 ppm	0.0165 ppm	0.0243 ppm	0.0036 ppm	0.0092 ppm	0.0207 ppm
Concentration per Run	0.4791 ppm	0.0405 ppm	0.0170 ppm	0.0251 ppm	0.0034 ppm	0.0090 ppm	0.0224 ppm
Concentration per Run	0.4716 ppm	0.0402 ppm	0.0166 ppm	0.0255 ppm	0.0037 ppm	0.0084 ppm	0.0229 ppm
Concentration per Run	0.4743 ppm	0.0402 ppm	0.0160 ppm	0.0222 ppm	0.0036 ppm	0.0103 ppm	0.0168 ppm
Concentration RSD	0.8 %	0.5 %	2.9 %	7.4 %	3.8 %	10.7 %	16.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0053 ppm	2.4187 ppm	0.0030 ppm	0.0016 ppm	0.1062 ppm	0.0007 ppm	0.0120 ppm
Concentration per Run	0.0034 ppm	2.4255 ppm	0.0033 ppm	0.0017 ppm	0.1157 ppm	0.0012 ppm	0.0117 ppm
Concentration per Run	0.0064 ppm	2.4090 ppm	0.0036 ppm	0.0015 ppm	0.1052 ppm	0.0004 ppm	0.0119 ppm
Concentration per Run	0.0061 ppm	2.4215 ppm	0.0020 ppm	0.0015 ppm	0.0976 ppm	0.0006 ppm	0.0122 ppm
Concentration RSD	30.4 %	0.4 %	29.1 %	10.6 %	8.6 %	61.4 %	2.0 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0144 ppm	92.5730 %	98.1583 %	93.6896 %	90.6403 %	98.8470 %	93.2194 %
Concentration per Run	0.0147 ppm	92.6007 %	98.8633 %	93.3874 %	91.0425 %	100.0713 %	92.4261 %
Concentration per Run	0.0144 ppm	92.2158 %	97.7571 %	93.9623 %	90.2816 %	98.5804 %	94.6623 %
Concentration per Run	0.0142 ppm	92.9024 %	97.8544 %	93.7193 %	90.5967 %	97.8893 %	92.5698 %
Concentration RSD	1.5 %	0.4 %	0.6 %	0.3 %	0.4 %	1.1 %	1.3 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: CCV
 Analysis started at: 6/27/2025 11:41:58 AM
 Rack: 0
 Vial: 3
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.5183 ppm	0.4802 ppm	0.4915 ppm	0.5115 ppm	0.5048 ppm	0.5135 ppm	0.4924 ppm
Concentration per Run	0.5196 ppm	0.4779 ppm	0.4922 ppm	0.5153 ppm	0.5048 ppm	0.5142 ppm	0.4971 ppm
Concentration per Run	0.5176 ppm	0.4822 ppm	0.4935 ppm	0.5117 ppm	0.5057 ppm	0.5145 ppm	0.4906 ppm
Concentration per Run	0.5176 ppm	0.4805 ppm	0.4887 ppm	0.5074 ppm	0.5039 ppm	0.5117 ppm	0.4894 ppm
Recovery Percentage	103.658 %	96.042 %	98.292 %	102.294 %	100.954 %	102.692 %	98.473 %
Concentration RSD	0.2 %	0.5 %	0.5 %	0.8 %	0.2 %	0.3 %	0.8 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.5099 ppm	0.5168 ppm	0.5189 ppm	0.5159 ppm	0.5197 ppm	5.1767 ppm	0.5215 ppm
Concentration per Run	0.5082 ppm	0.5164 ppm	0.5182 ppm	0.5170 ppm	0.5231 ppm	5.2195 ppm	0.5239 ppm
Concentration per Run	0.5095 ppm	0.5161 ppm	0.5196 ppm	0.5164 ppm	0.5197 ppm	5.1611 ppm	0.5176 ppm
Concentration per Run	0.5119 ppm	0.5180 ppm	0.5190 ppm	0.5143 ppm	0.5164 ppm	5.1493 ppm	0.5230 ppm
Recovery Percentage	101.971 %	103.365 %	103.783 %	103.176 %	103.944 %	103.533 %	104.299 %
Concentration RSD	0.4 %	0.2 %	0.1 %	0.3 %	0.6 %	0.7 %	0.7 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.5117 ppm	0.5097 ppm	0.5121 ppm	10.3020 ppm	0.5226 ppm	0.4874 ppm	0.5310 ppm
Concentration per Run	0.5141 ppm	0.5107 ppm	0.5088 ppm	10.2663 ppm	0.5213 ppm	0.4899 ppm	0.5333 ppm
Concentration per Run	0.5112 ppm	0.5102 ppm	0.5133 ppm	10.3215 ppm	0.5222 ppm	0.4854 ppm	0.5297 ppm
Concentration per Run	0.5099 ppm	0.5083 ppm	0.5142 ppm	10.3182 ppm	0.5242 ppm	0.4868 ppm	0.5301 ppm
Recovery Percentage	102.345 %	101.947 %	102.419 %	103.020 %	104.514 %	97.471 %	106.207 %
Concentration RSD	0.4 %	0.3 %	0.6 %	0.3 %	0.3 %	0.5 %	0.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.4953 ppm	5.7634 ppm	0.5119 ppm	0.5090 ppm	0.5164 ppm	0.4791 ppm	0.5191 ppm
Concentration per Run	0.4938 ppm	5.7682 ppm	0.5089 ppm	0.5069 ppm	0.5187 ppm	0.4784 ppm	0.5201 ppm
Concentration per Run	0.4945 ppm	5.7619 ppm	0.5130 ppm	0.5132 ppm	0.5132 ppm	0.4786 ppm	0.5191 ppm
Concentration per Run	0.4975 ppm	5.7600 ppm	0.5139 ppm	0.5069 ppm	0.5173 ppm	0.4801 ppm	0.5179 ppm
Recovery Percentage	99.051 %	109.779 %	102.390 %	101.800 %	103.279 %	95.814 %	103.811 %
Concentration RSD	0.4 %	0.1 %	0.5 %	0.7 %	0.5 %	0.2 %	0.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5204 ppm	96.8977 %	100.9113 %	96.8006 %	92.5884 %	99.9812 %	94.3703 %
Concentration per Run	0.5198 ppm	96.8334 %	100.6854 %	96.8473 %	92.4195 %	98.6822 %	94.4677 %
Concentration per Run	0.5193 ppm	96.5952 %	101.1260 %	96.7671 %	92.4773 %	101.1706 %	94.4253 %
Concentration per Run	0.5220 ppm	97.2646 %	100.9224 %	96.7873 %	92.8684 %	100.0908 %	94.2178 %
Recovery Percentage	104.071 %						
Concentration RSD	0.3 %	0.4 %	0.2 %	0.0 %	0.3 %	1.2 %	0.1 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: CCB
 Analysis started at: 6/27/2025 11:45:22 AM
 Rack: 0
 Vial: 4
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0003 ppm	0.0032 ppm	0.0011 ppm	0.0003 ppm	0.0000 ppm	0.0001 ppm	-0.0009 ppm
Concentration per Run	0.0003 ppm	0.0011 ppm	0.0013 ppm	-0.0002 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run	0.0002 ppm	0.0057 ppm	0.0013 ppm	0.0006 ppm	0.0000 ppm	0.0001 ppm	-0.0023 ppm
Concentration per Run	0.0004 ppm	0.0028 ppm	0.0005 ppm	0.0005 ppm	0.0000 ppm	0.0001 ppm	-0.0004 ppm
Recovery Percentage	6.670 %	3.229 %	21.567 %	1.056 %	0.182 %	1.169 %	-0.908 %
Concentration RSD	31.3 %	72.3 %	42.8 %	134.4 %	302.8 %	14.4 %	133.8 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0001 ppm	0.0004 ppm	0.0000 ppm	0.0007 ppm	0.0023 ppm	-0.0053 ppm	0.0002 ppm
Concentration per Run	0.0002 ppm	0.0003 ppm	-0.0001 ppm	0.0010 ppm	0.0017 ppm	-0.0013 ppm	0.0009 ppm
Concentration per Run	0.0001 ppm	0.0002 ppm	0.0003 ppm	0.0005 ppm	0.0026 ppm	-0.0092 ppm	0.0001 ppm
Concentration per Run	0.0000 ppm	0.0005 ppm	-0.0002 ppm	0.0006 ppm	0.0025 ppm	-0.0055 ppm	-0.0002 ppm
Recovery Percentage	1.877 %	3.536 %	-0.016 %	6.930 %	4.520 %	-0.214 %	2.395 %
Concentration RSD	116.5 %	52.3 %	18,998.4 %	35.8 %	22.5 %	73.7 %	234.8 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0000 ppm	0.0001 ppm	0.0105 ppm	0.0064 ppm	0.0001 ppm	0.0003 ppm	0.0039 ppm
Concentration per Run	-0.0013 ppm	0.0001 ppm	0.0108 ppm	0.0074 ppm	0.0004 ppm	0.0004 ppm	0.0048 ppm
Concentration per Run	0.0013 ppm	0.0001 ppm	0.0105 ppm	0.0039 ppm	0.0005 ppm	0.0004 ppm	0.0039 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0101 ppm	0.0078 ppm	-0.0005 ppm	0.0001 ppm	0.0029 ppm
Recovery Percentage	-0.006 %	0.745 %	20.943 %	0.320 %	0.532 %	2.926 %	7.714 %
Concentration RSD	21,503.6 %	35.8 %	3.0 %	33.5 %	427.1 %	63.9 %	24.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0114 ppm	0.0055 ppm	0.0010 ppm	0.0001 ppm	0.0008 ppm	-0.0003 ppm	0.0000 ppm
Concentration per Run	0.0116 ppm	0.0077 ppm	0.0008 ppm	0.0001 ppm	0.0017 ppm	-0.0007 ppm	0.0000 ppm
Concentration per Run	0.0111 ppm	0.0041 ppm	0.0011 ppm	0.0001 ppm	0.0004 ppm	-0.0009 ppm	0.0001 ppm
Concentration per Run	0.0114 ppm	0.0046 ppm	0.0011 ppm	0.0000 ppm	0.0004 ppm	0.0006 ppm	-0.0003 ppm
Recovery Percentage	113.517 %	1.094 %	2.001 %	0.638 %	8.445 %	-1.741 %	-0.335 %
Concentration RSD	2.1 %	36.0 %	17.1 %	41.6 %	84.9 %	238.4 %	616.5 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0003 ppm	93.4292 %	100.2780 %	94.1690 %	92.1261 %	101.3317 %	94.2316 %
Concentration per Run	-0.0003 ppm	93.3412 %	100.1950 %	93.6524 %	92.0150 %	101.8250 %	93.9594 %
Concentration per Run	-0.0004 ppm	93.6018 %	100.4463 %	94.1018 %	92.3099 %	100.9114 %	94.1493 %
Concentration per Run	-0.0002 ppm	93.3448 %	100.1928 %	94.7528 %	92.0532 %	101.2587 %	94.5860 %
Recovery Percentage	-6.079 %						
Concentration RSD	40.1 %	0.2 %	0.1 %	0.6 %	0.2 %	0.5 %	0.3 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: L2539747-04D2 WG2084199
 Analysis started at: 6/27/2025 11:51:01 AM
 Rack: 1
 Vial: 15
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0008 ppm	21.9496 ppm	0.0275 ppm	0.0055 ppm	0.1040 ppm	0.0012 ppm	1.6620 ppm
Concentration per Run	0.0010 ppm	21.9993 ppm	0.0280 ppm	0.0050 ppm	0.1039 ppm	0.0012 ppm	1.6486 ppm
Concentration per Run	0.0007 ppm	21.9208 ppm	0.0274 ppm	0.0066 ppm	0.1038 ppm	0.0012 ppm	1.6737 ppm
Concentration per Run	0.0008 ppm	21.9287 ppm	0.0270 ppm	0.0048 ppm	0.1043 ppm	0.0012 ppm	1.6637 ppm
Concentration RSD	17.1 %	0.2 %	1.9 %	17.8 %	0.2 %	0.8 %	0.8 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0001 ppm	0.0104 ppm	0.0622 ppm	0.0326 ppm	54.3243 ppm	1.8558 ppm	0.0223 ppm
Concentration per Run	-0.0001 ppm	0.0104 ppm	0.0620 ppm	0.0326 ppm	54.4772 ppm	1.8782 ppm	0.0233 ppm
Concentration per Run	-0.0002 ppm	0.0102 ppm	0.0632 ppm	0.0324 ppm	54.4745 ppm	1.8430 ppm	0.0221 ppm
Concentration per Run	-0.0001 ppm	0.0107 ppm	0.0613 ppm	0.0329 ppm	54.0212 ppm	1.8462 ppm	0.0216 ppm
Concentration RSD	45.3 %	2.4 %	1.5 %	0.7 %	0.5 %	1.0 %	3.9 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	3.6582 ppm	0.2635 ppm	0.0045 ppm	0.1011 ppm	0.0242 ppm	0.0479 ppm	0.0135 ppm
Concentration per Run	3.6671 ppm	0.2635 ppm	0.0048 ppm	0.1041 ppm	0.0248 ppm	0.0476 ppm	0.0153 ppm
Concentration per Run	3.6906 ppm	0.2643 ppm	0.0050 ppm	0.0991 ppm	0.0243 ppm	0.0482 ppm	0.0134 ppm
Concentration per Run	3.6169 ppm	0.2628 ppm	0.0039 ppm	0.1000 ppm	0.0237 ppm	0.0478 ppm	0.0117 ppm
Concentration RSD	1.0 %	0.3 %	13.0 %	2.6 %	2.3 %	0.5 %	13.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0046 ppm	13.8158 [SIC 200]	0.0052 ppm	0.0198 ppm	0.6601 ppm	0.0003 ppm	0.0864 ppm
Concentration per Run	0.0055 ppm	13.9041 ppm	0.0059 ppm	0.0200 ppm	0.6573 ppm	0.0003 ppm	0.0865 ppm
Concentration per Run	0.0040 ppm	13.9554 ppm	0.0046 ppm	0.0200 ppm	0.6779 ppm	0.0004 ppm	0.0865 ppm
Concentration per Run	0.0042 ppm	13.5880 ppm	0.0050 ppm	0.0195 ppm	0.6449 ppm	0.0001 ppm	0.0861 ppm
Concentration RSD	17.8 %	1.4 %	12.5 %	1.4 %	2.5 %	53.5 %	0.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0905 ppm	106.4733 %	103.5455 %	101.8976 %	103.9838 %	103.9548 %	104.5190 %
Concentration per Run	0.0911 ppm	106.5682 %	103.9789 %	102.3945 %	103.9395 %	105.7615 %	104.6975 %
Concentration per Run	0.0906 ppm	106.2847 %	103.0901 %	101.5211 %	103.9318 %	102.7917 %	105.1276 %
Concentration per Run	0.0897 ppm	106.5671 %	103.5676 %	101.7771 %	104.0801 %	103.3111 %	103.7319 %
Concentration RSD	0.8 %	0.2 %	0.4 %	0.4 %	0.1 %	1.5 %	0.7 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: L2539747-05D2 WG2084199
 Analysis started at: 6/27/2025 11:54:34 AM
 Rack: 1
 Vial: 16
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0023 ppm	24.9787 ppm	0.0698 ppm	0.0172 ppm	0.3120 ppm	0.0024 ppm	14.1623 ppm
Concentration per Run	0.0025 ppm	24.9386 ppm	0.0701 ppm	0.0163 ppm	0.3139 ppm	0.0024 ppm	14.2283 ppm
Concentration per Run	0.0022 ppm	25.0095 ppm	0.0702 ppm	0.0170 ppm	0.3116 ppm	0.0023 ppm	14.0556 ppm
Concentration per Run	0.0020 ppm	24.9881 ppm	0.0691 ppm	0.0181 ppm	0.3106 ppm	0.0024 ppm	14.2030 ppm
Concentration RSD	11.7 %	0.1 %	0.9 %	5.4 %	0.5 %	2.3 %	0.7 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0036 ppm	0.0153 ppm	0.1890 ppm	0.2349 ppm	125.8888 ppm	2.7961 ppm	0.0190 ppm
Concentration per Run	0.0036 ppm	0.0151 ppm	0.1897 ppm	0.2355 ppm	126.4595 ppm	2.8066 ppm	0.0195 ppm
Concentration per Run	0.0037 ppm	0.0148 ppm	0.1886 ppm	0.2344 ppm	125.0164 ppm	2.7967 ppm	0.0188 ppm
Concentration per Run	0.0035 ppm	0.0159 ppm	0.1887 ppm	0.2346 ppm	126.1906 ppm	2.7851 ppm	0.0187 ppm
Concentration RSD	1.9 %	3.7 %	0.3 %	0.3 %	0.6 %	0.4 %	2.4 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	4.3789 ppm	0.7731 ppm	0.0052 ppm	0.1120 ppm	0.0442 ppm	2.0002 ppm	0.9866 ppm
Concentration per Run	4.4160 ppm	0.7744 ppm	0.0052 ppm	0.1108 ppm	0.0448 ppm	1.9987 ppm	0.9843 ppm
Concentration per Run	4.3595 ppm	0.7698 ppm	0.0055 ppm	0.1120 ppm	0.0441 ppm	2.0051 ppm	0.9819 ppm
Concentration per Run	4.3612 ppm	0.7751 ppm	0.0050 ppm	0.1130 ppm	0.0439 ppm	1.9970 ppm	0.9937 ppm
Concentration RSD	0.7 %	0.4 %	5.4 %	1.0 %	1.1 %	0.2 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0052 ppm	7.4192 ppm	0.0301 ppm	0.0736 ppm	0.6172 ppm	0.0009 ppm	0.2146 ppm
Concentration per Run	0.0032 ppm	7.4579 ppm	0.0301 ppm	0.0739 ppm	0.6145 ppm	0.0012 ppm	0.2152 ppm
Concentration per Run	0.0059 ppm	7.5036 ppm	0.0311 ppm	0.0734 ppm	0.6286 ppm	0.0002 ppm	0.2142 ppm
Concentration per Run	0.0066 ppm	7.2961 ppm	0.0291 ppm	0.0734 ppm	0.6086 ppm	0.0014 ppm	0.2143 ppm
Concentration RSD	33.8 %	1.5 %	3.3 %	0.4 %	1.7 %	68.7 %	0.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6735 ppm	98.7031 %	103.5339 %	95.2247 %	96.7286 %	104.2198 %	98.4410 %
Concentration per Run	0.6772 ppm	98.3544 %	103.5984 %	95.1011 %	96.6499 %	105.1419 %	98.2277 %
Concentration per Run	0.6735 ppm	98.8386 %	103.9016 %	95.3919 %	96.6420 %	104.1809 %	98.6797 %
Concentration per Run	0.6697 ppm	98.9163 %	103.1018 %	95.1811 %	96.8940 %	103.3367 %	98.4156 %
Concentration RSD	0.5 %	0.3 %	0.4 %	0.2 %	0.1 %	0.9 %	0.2 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: L2539747-06D2 WG2084199
 Analysis started at: 6/27/2025 11:57:57 AM
 Rack: 1
 Vial: 17
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0014 ppm	21.2162 ppm	0.0437 ppm	0.0104 ppm	0.2629 ppm	0.0015 ppm	7.6864 ppm
Concentration per Run	0.0015 ppm	21.2033 ppm	0.0438 ppm	0.0107 ppm	0.2621 ppm	0.0015 ppm	7.7032 ppm
Concentration per Run	0.0011 ppm	21.2887 ppm	0.0439 ppm	0.0100 ppm	0.2640 ppm	0.0015 ppm	7.6597 ppm
Concentration per Run	0.0017 ppm	21.1567 ppm	0.0435 ppm	0.0104 ppm	0.2626 ppm	0.0015 ppm	7.6964 ppm
Concentration RSD	18.8 %	0.3 %	0.5 %	3.5 %	0.4 %	1.3 %	0.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0019 ppm	0.0112 ppm	0.0791 ppm	0.1998 ppm	61.9334 ppm	2.0308 ppm	0.0197 ppm
Concentration per Run	0.0020 ppm	0.0112 ppm	0.0782 ppm	0.1998 ppm	61.9619 ppm	2.0559 ppm	0.0210 ppm
Concentration per Run	0.0019 ppm	0.0116 ppm	0.0794 ppm	0.1998 ppm	61.7740 ppm	2.0265 ppm	0.0195 ppm
Concentration per Run	0.0019 ppm	0.0109 ppm	0.0797 ppm	0.1997 ppm	62.0642 ppm	2.0100 ppm	0.0188 ppm
Concentration RSD	0.6 %	3.1 %	1.0 %	0.0 %	0.2 %	1.1 %	5.8 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	3.7457 ppm	0.6020 ppm	0.0041 ppm	0.1149 ppm	0.0355 ppm	1.9620 ppm	0.4461 ppm
Concentration per Run	3.7266 ppm	0.6038 ppm	0.0040 ppm	0.1153 ppm	0.0360 ppm	1.9576 ppm	0.4444 ppm
Concentration per Run	3.7578 ppm	0.6008 ppm	0.0044 ppm	0.1147 ppm	0.0349 ppm	1.9724 ppm	0.4425 ppm
Concentration per Run	3.7528 ppm	0.6013 ppm	0.0037 ppm	0.1146 ppm	0.0356 ppm	1.9561 ppm	0.4515 ppm
Concentration RSD	0.4 %	0.3 %	8.6 %	0.3 %	1.6 %	0.5 %	1.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0035 ppm	9.3606 ppm	0.0341 ppm	0.0492 ppm	0.6389 ppm	0.0010 ppm	0.1045 ppm
Concentration per Run	0.0038 ppm	9.6214 ppm	0.0348 ppm	0.0490 ppm	0.6520 ppm	0.0007 ppm	0.1047 ppm
Concentration per Run	0.0025 ppm	9.2301 ppm	0.0331 ppm	0.0492 ppm	0.6340 ppm	0.0008 ppm	0.1044 ppm
Concentration per Run	0.0042 ppm	9.2302 ppm	0.0346 ppm	0.0493 ppm	0.6309 ppm	0.0015 ppm	0.1044 ppm
Concentration RSD	26.0 %	2.4 %	2.7 %	0.3 %	1.8 %	40.0 %	0.1 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3522 ppm	96.6006 %	102.2165 %	94.5251 %	95.5182 %	104.5704 %	97.5319 %
Concentration per Run	0.3519 ppm	97.1124 %	102.2566 %	94.7975 %	95.8576 %	105.0900 %	97.7254 %
Concentration per Run	0.3514 ppm	96.5962 %	102.4001 %	94.3971 %	95.7826 %	104.1672 %	97.6386 %
Concentration per Run	0.3533 ppm	96.0933 %	101.9928 %	94.3807 %	94.9145 %	104.4540 %	97.2315 %
Concentration RSD	0.3 %	0.5 %	0.2 %	0.2 %	0.5 %	0.5 %	0.3 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: L2539747-07D2 WG2084199
 Analysis started at: 6/27/2025 12:01:20 PM
 Rack: 1
 Vial: 18
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0013 ppm	20.6668 ppm	0.0464 ppm	0.0060 ppm	0.4698 ppm	0.0018 ppm	6.1188 ppm
Concentration per Run	0.0013 ppm	20.8266 ppm	0.0459 ppm	0.0054 ppm	0.4702 ppm	0.0018 ppm	6.1545 ppm
Concentration per Run	0.0014 ppm	20.6273 ppm	0.0474 ppm	0.0065 ppm	0.4717 ppm	0.0018 ppm	6.0925 ppm
Concentration per Run	0.0013 ppm	20.5465 ppm	0.0460 ppm	0.0060 ppm	0.4674 ppm	0.0018 ppm	6.1093 ppm
Concentration RSD	1.8 %	0.7 %	1.8 %	9.3 %	0.5 %	0.7 %	0.5 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0014 ppm	0.0109 ppm	0.0645 ppm	0.0652 ppm	46.6083 ppm	1.7915 ppm	0.0178 ppm
Concentration per Run	0.0015 ppm	0.0109 ppm	0.0645 ppm	0.0654 ppm	46.4108 ppm	1.8016 ppm	0.0189 ppm
Concentration per Run	0.0013 ppm	0.0110 ppm	0.0646 ppm	0.0650 ppm	46.7797 ppm	1.7904 ppm	0.0172 ppm
Concentration per Run	0.0015 ppm	0.0109 ppm	0.0644 ppm	0.0651 ppm	46.6343 ppm	1.7826 ppm	0.0171 ppm
Concentration RSD	7.6 %	0.7 %	0.2 %	0.3 %	0.4 %	0.5 %	5.5 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	3.0738 ppm	0.9374 ppm	0.0027 ppm	0.1212 ppm	0.0248 ppm	0.5388 ppm	0.0151 ppm
Concentration per Run	3.0831 ppm	0.9399 ppm	0.0030 ppm	0.1198 ppm	0.0246 ppm	0.5432 ppm	0.0119 ppm
Concentration per Run	3.0806 ppm	0.9371 ppm	0.0022 ppm	0.1266 ppm	0.0247 ppm	0.5374 ppm	0.0146 ppm
Concentration per Run	3.0577 ppm	0.9353 ppm	0.0029 ppm	0.1171 ppm	0.0251 ppm	0.5357 ppm	0.0190 ppm
Concentration RSD	0.5 %	0.2 %	16.0 %	4.0 %	1.1 %	0.7 %	23.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0044 ppm	8.3267 ppm	0.0320 ppm	0.0297 ppm	0.5783 ppm	0.0007 ppm	0.0982 ppm
Concentration per Run	0.0050 ppm	8.4466 ppm	0.0321 ppm	0.0297 ppm	0.5974 ppm	-0.0007 ppm	0.0983 ppm
Concentration per Run	0.0028 ppm	8.3488 ppm	0.0320 ppm	0.0297 ppm	0.5602 ppm	0.0006 ppm	0.0984 ppm
Concentration per Run	0.0053 ppm	8.1848 ppm	0.0320 ppm	0.0298 ppm	0.5773 ppm	0.0022 ppm	0.0979 ppm
Concentration RSD	31.2 %	1.6 %	0.2 %	0.3 %	3.2 %	197.2 %	0.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2902 ppm	96.2972 %	101.5330 %	95.3323 %	96.0974 %	105.0061 %	98.7170 %
Concentration per Run	0.2902 ppm	96.4721 %	101.8349 %	94.7346 %	96.4092 %	104.7772 %	98.5000 %
Concentration per Run	0.2923 ppm	95.6252 %	101.7281 %	95.6048 %	95.4691 %	105.1024 %	98.7261 %
Concentration per Run	0.2881 ppm	96.7943 %	101.0360 %	95.6574 %	96.4138 %	105.1387 %	98.9248 %
Concentration RSD	0.7 %	0.6 %	0.4 %	0.5 %	0.6 %	0.2 %	0.2 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: L2539747-08D2 WG2084199
 Analysis started at: 6/27/2025 12:04:44 PM
 Rack: 1
 Vial: 19
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0015 ppm	24.0442 ppm	0.0414 ppm	0.0104 ppm	0.1763 ppm	0.0019 ppm	7.1610 ppm
Concentration per Run	0.0018 ppm	24.1048 ppm	0.0417 ppm	0.0102 ppm	0.1770 ppm	0.0019 ppm	7.2118 ppm
Concentration per Run	0.0013 ppm	24.0171 ppm	0.0421 ppm	0.0107 ppm	0.1758 ppm	0.0019 ppm	7.1598 ppm
Concentration per Run	0.0015 ppm	24.0108 ppm	0.0403 ppm	0.0104 ppm	0.1761 ppm	0.0019 ppm	7.1114 ppm
Concentration RSD	18.4 %	0.2 %	2.4 %	2.4 %	0.3 %	1.7 %	0.7 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0003 ppm	0.0109 ppm	0.0668 ppm	0.0890 ppm	74.0807 ppm	2.5793 ppm	0.0206 ppm
Concentration per Run	0.0003 ppm	0.0110 ppm	0.0675 ppm	0.0892 ppm	74.1223 ppm	2.6227 ppm	0.0216 ppm
Concentration per Run	0.0003 ppm	0.0111 ppm	0.0672 ppm	0.0887 ppm	74.1582 ppm	2.5629 ppm	0.0197 ppm
Concentration per Run	0.0004 ppm	0.0105 ppm	0.0657 ppm	0.0890 ppm	73.9616 ppm	2.5523 ppm	0.0206 ppm
Concentration RSD	20.8 %	2.6 %	1.4 %	0.3 %	0.1 %	1.5 %	4.5 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	5.8730 ppm	0.7880 ppm	0.0037 ppm	0.1118 ppm	0.0268 ppm	3.2789 ppm	0.0207 ppm
Concentration per Run	5.9114 ppm	0.7908 ppm	0.0033 ppm	0.1121 ppm	0.0267 ppm	3.2975 ppm	0.0198 ppm
Concentration per Run	5.9215 ppm	0.7870 ppm	0.0037 ppm	0.1133 ppm	0.0263 ppm	3.2674 ppm	0.0213 ppm
Concentration per Run	5.7861 ppm	0.7862 ppm	0.0042 ppm	0.1100 ppm	0.0273 ppm	3.2719 ppm	0.0212 ppm
Concentration RSD	1.3 %	0.3 %	11.0 %	1.5 %	1.8 %	0.5 %	4.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0038 ppm	8.9251 ppm	0.0134 ppm	0.0210 ppm	0.5898 ppm	0.0008 ppm	0.1281 ppm
Concentration per Run	0.0038 ppm	9.0550 ppm	0.0127 ppm	0.0209 ppm	0.5899 ppm	0.0021 ppm	0.1285 ppm
Concentration per Run	0.0031 ppm	8.9182 ppm	0.0137 ppm	0.0210 ppm	0.5852 ppm	0.0002 ppm	0.1283 ppm
Concentration per Run	0.0045 ppm	8.8020 ppm	0.0137 ppm	0.0210 ppm	0.5944 ppm	0.0001 ppm	0.1273 ppm
Concentration RSD	19.0 %	1.4 %	4.1 %	0.2 %	0.8 %	136.1 %	0.5 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2077 ppm	96.9190 %	101.9119 %	95.3729 %	96.3937 %	103.9530 %	98.8589 %
Concentration per Run	0.2091 ppm	96.5511 %	101.7245 %	95.5534 %	96.0498 %	103.1058 %	98.8516 %
Concentration per Run	0.2073 ppm	96.5956 %	102.1028 %	95.3393 %	96.1127 %	104.2149 %	98.9056 %
Concentration per Run	0.2067 ppm	97.6104 %	101.9083 %	95.2260 %	97.0186 %	104.5384 %	98.8196 %
Concentration RSD	0.6 %	0.6 %	0.2 %	0.2 %	0.6 %	0.7 %	0.0 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: L2539747-10D2 WG2084199
 Analysis started at: 6/27/2025 12:08:07 PM
 Rack: 1
 Vial: 20
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0009 ppm	25.9091 ppm	0.0259 ppm	0.0056 ppm	0.1142 ppm	0.0014 ppm	0.3316 ppm
Concentration per Run	0.0010 ppm	25.8779 ppm	0.0268 ppm	0.0049 ppm	0.1144 ppm	0.0013 ppm	0.3304 ppm
Concentration per Run	0.0008 ppm	26.0079 ppm	0.0258 ppm	0.0063 ppm	0.1147 ppm	0.0014 ppm	0.3305 ppm
Concentration per Run	0.0009 ppm	25.8415 ppm	0.0252 ppm	0.0057 ppm	0.1136 ppm	0.0014 ppm	0.3338 ppm
Concentration RSD	7.2 %	0.3 %	3.1 %	12.1 %	0.5 %	0.9 %	0.6 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0001 ppm	0.0067 ppm	0.0616 ppm	0.0374 ppm	51.6207 ppm	1.4603 ppm	0.0206 ppm
Concentration per Run	-0.0003 ppm	0.0065 ppm	0.0624 ppm	0.0378 ppm	51.4378 ppm	1.4805 ppm	0.0213 ppm
Concentration per Run	-0.0001 ppm	0.0067 ppm	0.0612 ppm	0.0374 ppm	51.7569 ppm	1.4615 ppm	0.0206 ppm
Concentration per Run	-0.0001 ppm	0.0068 ppm	0.0612 ppm	0.0370 ppm	51.6672 ppm	1.4390 ppm	0.0198 ppm
Concentration RSD	75.7 %	1.8 %	1.1 %	1.0 %	0.3 %	1.4 %	3.6 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	3.1253 ppm	0.2499 ppm	0.0034 ppm	0.0911 ppm	0.0196 ppm	0.1620 ppm	0.0095 ppm
Concentration per Run	3.1298 ppm	0.2503 ppm	0.0034 ppm	0.0927 ppm	0.0195 ppm	0.1629 ppm	0.0097 ppm
Concentration per Run	3.1347 ppm	0.2493 ppm	0.0030 ppm	0.0920 ppm	0.0196 ppm	0.1629 ppm	0.0085 ppm
Concentration per Run	3.1114 ppm	0.2502 ppm	0.0038 ppm	0.0888 ppm	0.0196 ppm	0.1603 ppm	0.0101 ppm
Concentration RSD	0.4 %	0.2 %	12.5 %	2.3 %	0.3 %	0.9 %	8.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0016 ppm	13.0864 [SIC 200]	0.0055 ppm	0.0092 ppm	0.6460 ppm	0.0004 ppm	0.0791 ppm
Concentration per Run	0.0008 ppm	13.1890 ppm	0.0053 ppm	0.0093 ppm	0.6193 ppm	-0.0004 ppm	0.0788 ppm
Concentration per Run	0.0021 ppm	13.1247 ppm	0.0060 ppm	0.0091 ppm	0.6683 ppm	-0.0001 ppm	0.0790 ppm
Concentration per Run	0.0021 ppm	12.9455 ppm	0.0053 ppm	0.0092 ppm	0.6504 ppm	0.0017 ppm	0.0794 ppm
Concentration RSD	45.5 %	1.0 %	7.8 %	1.2 %	3.8 %	292.3 %	0.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0944 ppm	96.8193 %	102.4634 %	95.7414 %	95.5067 %	103.8204 %	98.0707 %
Concentration per Run	0.0947 ppm	96.6611 %	102.7492 %	95.5821 %	95.7051 %	103.4729 %	97.9250 %
Concentration per Run	0.0947 ppm	97.0365 %	102.2770 %	95.7703 %	95.6328 %	104.1124 %	98.1961 %
Concentration per Run	0.0939 ppm	96.7602 %	102.3641 %	95.8720 %	95.1823 %	103.8759 %	98.0908 %
Concentration RSD	0.5 %	0.2 %	0.2 %	0.2 %	0.3 %	0.3 %	0.1 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: L2539747-11D2 WG2084199
 Analysis started at: 6/27/2025 12:11:31 PM
 Rack: 1
 Vial: 21
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0010 ppm	24.4805 ppm	0.0251 ppm	0.0053 ppm	0.1281 ppm	0.0013 ppm	2.5114 ppm
Concentration per Run	0.0011 ppm	24.5169 ppm	0.0261 ppm	0.0055 ppm	0.1283 ppm	0.0013 ppm	2.5042 ppm
Concentration per Run	0.0008 ppm	24.5116 ppm	0.0244 ppm	0.0058 ppm	0.1283 ppm	0.0013 ppm	2.5184 ppm
Concentration per Run	0.0011 ppm	24.4130 ppm	0.0247 ppm	0.0045 ppm	0.1275 ppm	0.0013 ppm	2.5115 ppm
Concentration RSD	18.2 %	0.2 %	3.6 %	12.6 %	0.4 %	1.3 %	0.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0002 ppm	0.0108 ppm	0.0612 ppm	0.0209 ppm	55.7606 ppm	1.5525 ppm	0.0240 ppm
Concentration per Run	-0.0003 ppm	0.0104 ppm	0.0616 ppm	0.0210 ppm	55.7625 ppm	1.5843 ppm	0.0244 ppm
Concentration per Run	-0.0001 ppm	0.0110 ppm	0.0609 ppm	0.0206 ppm	55.6957 ppm	1.5531 ppm	0.0241 ppm
Concentration per Run	-0.0003 ppm	0.0110 ppm	0.0611 ppm	0.0212 ppm	55.8235 ppm	1.5201 ppm	0.0236 ppm
Concentration RSD	32.5 %	3.0 %	0.6 %	1.3 %	0.1 %	2.1 %	1.5 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	3.9515 ppm	0.3098 ppm	0.0029 ppm	0.0727 ppm	0.0253 ppm	0.1608 ppm	0.0078 ppm
Concentration per Run	3.9719 ppm	0.3100 ppm	0.0022 ppm	0.0723 ppm	0.0256 ppm	0.1608 ppm	0.0055 ppm
Concentration per Run	3.9491 ppm	0.3102 ppm	0.0029 ppm	0.0752 ppm	0.0249 ppm	0.1595 ppm	0.0081 ppm
Concentration per Run	3.9334 ppm	0.3093 ppm	0.0037 ppm	0.0705 ppm	0.0253 ppm	0.1619 ppm	0.0098 ppm
Concentration RSD	0.5 %	0.1 %	24.1 %	3.2 %	1.5 %	0.7 %	27.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0027 ppm	8.1048 ppm	0.0053 ppm	0.0267 ppm	0.5063 ppm	-0.0006 ppm	0.0823 ppm
Concentration per Run	0.0012 ppm	8.1871 ppm	0.0052 ppm	0.0268 ppm	0.5161 ppm	-0.0008 ppm	0.0824 ppm
Concentration per Run	0.0040 ppm	8.1999 ppm	0.0060 ppm	0.0268 ppm	0.5025 ppm	-0.0007 ppm	0.0825 ppm
Concentration per Run	0.0029 ppm	7.9273 ppm	0.0047 ppm	0.0265 ppm	0.5003 ppm	-0.0002 ppm	0.0819 ppm
Concentration RSD	51.2 %	1.9 %	12.7 %	0.8 %	1.7 %	51.6 %	0.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0976 ppm	97.2304 %	102.1128 %	96.1840 %	94.8223 %	102.6186 %	97.3957 %
Concentration per Run	0.0976 ppm	96.9554 %	102.0734 %	95.6816 %	94.9366 %	103.0952 %	96.9428 %
Concentration per Run	0.0975 ppm	97.2181 %	101.9679 %	96.0587 %	94.3948 %	102.2112 %	97.3206 %
Concentration per Run	0.0977 ppm	97.5178 %	102.2970 %	96.8116 %	95.1355 %	102.5494 %	97.9236 %
Concentration RSD	0.1 %	0.3 %	0.2 %	0.6 %	0.4 %	0.4 %	0.5 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: L2539842-01D2 WG2084199
 Analysis started at: 6/27/2025 12:16:57 PM
 Rack: 1
 Vial: 22
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0039 ppm	138.5636 ppm	0.1987 ppm	0.0185 ppm	1.7656 ppm	0.0041 ppm	17.1333 ppm
Concentration per Run	0.0036 ppm	138.7657 ppm	0.1982 ppm	0.0190 ppm	1.7664 ppm	0.0041 ppm	17.1349 ppm
Concentration per Run	0.0040 ppm	138.7057 ppm	0.1996 ppm	0.0172 ppm	1.7726 ppm	0.0041 ppm	17.0651 ppm
Concentration per Run	0.0039 ppm	138.2193 ppm	0.1984 ppm	0.0195 ppm	1.7579 ppm	0.0041 ppm	17.2000 ppm
Concentration RSD	5.3 %	0.2 %	0.4 %	6.4 %	0.4 %	0.3 %	0.4 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0018 ppm	0.1048 ppm	0.2797 ppm	0.2543 ppm	200.6819 [SIC 500]	17.4435 ppm	0.1849 ppm
Concentration per Run	0.0018 ppm	0.1047 ppm	0.2791 ppm	0.2554 ppm	200.7743 ppm	17.4464 ppm	0.1870 ppm
Concentration per Run	0.0019 ppm	0.1050 ppm	0.2798 ppm	0.2536 ppm	200.9964 ppm	17.5184 ppm	0.1848 ppm
Concentration per Run	0.0017 ppm	0.1047 ppm	0.2803 ppm	0.2540 ppm	200.2751 ppm	17.3658 ppm	0.1828 ppm
Concentration RSD	7.7 %	0.2 %	0.2 %	0.4 %	0.2 %	0.4 %	1.1 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	51.3760 ppm	5.1105 ppm	0.0033 ppm	1.2404 ppm	0.3070 ppm	0.9948 ppm	0.0100 ppm
Concentration per Run	51.1337 ppm	5.1272 ppm	0.0029 ppm	1.2545 ppm	0.3055 ppm	0.9938 ppm	0.0111 ppm
Concentration per Run	51.7377 ppm	5.0979 ppm	0.0036 ppm	1.2454 ppm	0.3070 ppm	0.9977 ppm	0.0076 ppm
Concentration per Run	51.2565 ppm	5.1065 ppm	0.0035 ppm	1.2213 ppm	0.3086 ppm	0.9930 ppm	0.0111 ppm
Concentration RSD	0.6 %	0.3 %	10.9 %	1.4 %	0.5 %	0.3 %	20.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0031 ppm	25.6463 [SIC 200]	0.0377 ppm	0.1308 ppm	5.1798 ppm	0.0024 ppm	0.2684 ppm
Concentration per Run	0.0007 ppm	26.2670 ppm	0.0374 ppm	0.1305 ppm	5.1577 ppm	0.0023 ppm	0.2690 ppm
Concentration per Run	0.0027 ppm	25.6407 ppm	0.0382 ppm	0.1315 ppm	5.1991 ppm	0.0028 ppm	0.2685 ppm
Concentration per Run	0.0059 ppm	25.0312 ppm	0.0376 ppm	0.1304 ppm	5.1824 ppm	0.0020 ppm	0.2676 ppm
Concentration RSD	83.2 %	2.4 %	1.2 %	0.4 %	0.4 %	17.0 %	0.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	2.7102 ppm	99.7512 %	105.4770 %	89.7792 %	110.2915 %	120.6668 %	112.6779 %
Concentration per Run	2.7255 ppm	100.0425 %	105.0319 %	90.0840 %	110.8936 %	120.0074 %	113.2411 %
Concentration per Run	2.7092 ppm	99.8349 %	105.7050 %	89.5757 %	110.2662 %	121.0288 %	112.6287 %
Concentration per Run	2.6958 ppm	99.3762 %	105.6942 %	89.6779 %	109.7146 %	120.9643 %	112.1639 %
Concentration RSD	0.5 %	0.3 %	0.4 %	0.3 %	0.5 %	0.5 %	0.5 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: L2539842-02D2 WG2084199
 Analysis started at: 6/27/2025 12:20:24 PM
 Rack: 1
 Vial: 23
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0032 ppm	126.7085 ppm	0.2142 ppm	0.0157 ppm	1.0495 ppm	0.0033 ppm	15.4889 ppm
Concentration per Run	0.0033 ppm	126.5796 ppm	0.2157 ppm	0.0160 ppm	1.0534 ppm	0.0032 ppm	15.5979 ppm
Concentration per Run	0.0031 ppm	127.3215 ppm	0.2156 ppm	0.0160 ppm	1.0530 ppm	0.0033 ppm	15.4451 ppm
Concentration per Run	0.0030 ppm	126.2244 ppm	0.2113 ppm	0.0150 ppm	1.0420 ppm	0.0033 ppm	15.4239 ppm
Concentration RSD	5.3 %	0.4 %	1.2 %	3.7 %	0.6 %	1.5 %	0.6 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0017 ppm	0.1179 ppm	0.2737 ppm	0.2433 ppm	192.0777 ppm	21.9002 ppm	0.1706 ppm
Concentration per Run	0.0018 ppm	0.1173 ppm	0.2738 ppm	0.2442 ppm	192.4803 ppm	21.8494 ppm	0.1710 ppm
Concentration per Run	0.0017 ppm	0.1182 ppm	0.2758 ppm	0.2432 ppm	192.0819 ppm	22.0612 ppm	0.1721 ppm
Concentration per Run	0.0017 ppm	0.1182 ppm	0.2715 ppm	0.2424 ppm	191.6709 ppm	21.7901 ppm	0.1688 ppm
Concentration RSD	2.8 %	0.4 %	0.8 %	0.4 %	0.2 %	0.7 %	1.0 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	55.3879 ppm	5.2338 ppm	0.0041 ppm	1.7302 ppm	0.3155 ppm	1.5783 ppm	0.0143 ppm
Concentration per Run	55.2410 ppm	5.2363 ppm	0.0043 ppm	1.7333 ppm	0.3152 ppm	1.5813 ppm	0.0145 ppm
Concentration per Run	55.9759 ppm	5.2352 ppm	0.0041 ppm	1.7482 ppm	0.3165 ppm	1.5728 ppm	0.0158 ppm
Concentration per Run	54.9468 ppm	5.2301 ppm	0.0041 ppm	1.7091 ppm	0.3148 ppm	1.5808 ppm	0.0125 ppm
Concentration RSD	1.0 %	0.1 %	3.0 %	1.1 %	0.3 %	0.3 %	11.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0012 ppm	17.2153 [SIC 200]	0.0289 ppm	0.0975 ppm	4.6604 ppm	0.0019 ppm	0.2824 ppm
Concentration per Run	0.0022 ppm	17.2412 ppm	0.0289 ppm	0.0977 ppm	4.6752 ppm	0.0014 ppm	0.2813 ppm
Concentration per Run	-0.0003 ppm	17.3220 ppm	0.0282 ppm	0.0979 ppm	4.7028 ppm	0.0017 ppm	0.2840 ppm
Concentration per Run	0.0018 ppm	17.0826 ppm	0.0297 ppm	0.0970 ppm	4.6032 ppm	0.0027 ppm	0.2819 ppm
Concentration RSD	106.0 %	0.7 %	2.5 %	0.5 %	1.1 %	36.0 %	0.5 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	2.4957 ppm	99.6496 %	105.2177 %	89.7860 %	109.9336 %	119.8609 %	111.5447 %
Concentration per Run	2.5038 ppm	99.5925 %	105.7249 %	89.4318 %	109.8745 %	119.4698 %	111.7416 %
Concentration per Run	2.4852 ppm	99.7530 %	104.7990 %	89.8169 %	110.4450 %	119.8096 %	111.2647 %
Concentration per Run	2.4982 ppm	99.6033 %	105.1293 %	90.1093 %	109.4813 %	120.3034 %	111.6278 %
Concentration RSD	0.4 %	0.1 %	0.4 %	0.4 %	0.4 %	0.3 %	0.2 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: L2539842-03D2 WG2084199
 Analysis started at: 6/27/2025 12:23:49 PM
 Rack: 1
 Vial: 24
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0024 ppm	58.2617 ppm	0.0804 ppm	0.0114 ppm	0.3552 ppm	0.0017 ppm	18.8841 ppm
Concentration per Run	0.0022 ppm	58.4478 ppm	0.0798 ppm	0.0124 ppm	0.3530 ppm	0.0017 ppm	18.8732 ppm
Concentration per Run	0.0022 ppm	58.2003 ppm	0.0808 ppm	0.0111 ppm	0.3575 ppm	0.0017 ppm	18.8345 ppm
Concentration per Run	0.0026 ppm	58.1370 ppm	0.0807 ppm	0.0108 ppm	0.3552 ppm	0.0017 ppm	18.9446 ppm
Concentration RSD	10.4 %	0.3 %	0.6 %	7.9 %	0.6 %	0.7 %	0.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0125 ppm	0.0634 ppm	0.1464 ppm	0.1677 ppm	105.1531 ppm	10.6432 ppm	0.0843 ppm
Concentration per Run	0.0126 ppm	0.0644 ppm	0.1456 ppm	0.1677 ppm	105.6001 ppm	10.6569 ppm	0.0844 ppm
Concentration per Run	0.0125 ppm	0.0625 ppm	0.1474 ppm	0.1681 ppm	104.9331 ppm	10.6640 ppm	0.0857 ppm
Concentration per Run	0.0123 ppm	0.0632 ppm	0.1462 ppm	0.1673 ppm	104.9261 ppm	10.6089 ppm	0.0828 ppm
Concentration RSD	1.0 %	1.5 %	0.6 %	0.2 %	0.4 %	0.3 %	1.7 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	28.2544 ppm	3.4725 ppm	0.0023 ppm	0.6610 ppm	0.1734 ppm	1.0720 ppm	0.0027 ppm
Concentration per Run	28.0506 ppm	3.4845 ppm	0.0024 ppm	0.6616 ppm	0.1733 ppm	1.0763 ppm	0.0026 ppm
Concentration per Run	28.2632 ppm	3.4577 ppm	0.0023 ppm	0.6577 ppm	0.1730 ppm	1.0769 ppm	0.0047 ppm
Concentration per Run	28.4494 ppm	3.4753 ppm	0.0022 ppm	0.6637 ppm	0.1740 ppm	1.0630 ppm	0.0009 ppm
Concentration RSD	0.7 %	0.4 %	5.1 %	0.5 %	0.3 %	0.7 %	69.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0035 ppm	6.0851 ppm	0.0330 ppm	0.1014 ppm	2.2351 ppm	0.0014 ppm	0.1544 ppm
Concentration per Run	0.0033 ppm	6.2232 ppm	0.0332 ppm	0.1014 ppm	2.2293 ppm	0.0007 ppm	0.1546 ppm
Concentration per Run	0.0036 ppm	6.0430 ppm	0.0326 ppm	0.1018 ppm	2.2331 ppm	0.0014 ppm	0.1544 ppm
Concentration per Run	0.0036 ppm	5.9890 ppm	0.0332 ppm	0.1010 ppm	2.2430 ppm	0.0021 ppm	0.1541 ppm
Concentration RSD	3.6 %	2.0 %	1.0 %	0.4 %	0.3 %	48.5 %	0.1 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	11.2188 ppm	96.3471 %	102.8597 %	91.9396 %	100.0121 %	109.2444 %	101.9259 %
Concentration per Run	11.2854 ppm	96.4033 %	102.3683 %	92.1584 %	99.7079 %	109.9062 %	101.8930 %
Concentration per Run	11.1704 ppm	96.1765 %	102.7122 %	91.5596 %	99.9869 %	108.7793 %	101.7010 %
Concentration per Run	11.2006 ppm	96.4613 %	103.4987 %	92.1007 %	100.3415 %	109.0477 %	102.1836 %
Concentration RSD	0.5 %	0.2 %	0.6 %	0.4 %	0.3 %	0.5 %	0.2 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: CCV
Analysis started at: 6/27/2025 12:27:15 PM
Rack: 0
Vial: 3
Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.5211 ppm	0.4864 ppm	0.4939 ppm	0.5151 ppm	0.5119 ppm	0.5121 ppm	0.4908 ppm
Concentration per Run	0.5208 ppm	0.4880 ppm	0.4913 ppm	0.5163 ppm	0.5148 ppm	0.5106 ppm	0.4933 ppm
Concentration per Run	0.5213 ppm	0.4836 ppm	0.4951 ppm	0.5103 ppm	0.5098 ppm	0.5146 ppm	0.4910 ppm
Concentration per Run	0.5213 ppm	0.4875 ppm	0.4954 ppm	0.5188 ppm	0.5112 ppm	0.5112 ppm	0.4881 ppm
Recovery Percentage	104.225 %	97.271 %	98.788 %	103.019 %	102.379 %	102.423 %	98.164 %
Concentration RSD	0.1 %	0.5 %	0.5 %	0.8 %	0.5 %	0.4 %	0.5 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.5108 ppm	0.5187 ppm	0.5216 ppm	0.5173 ppm	0.5361 ppm	5.1870 ppm	0.5283 ppm
Concentration per Run	0.5141 ppm	0.5207 ppm	0.5202 ppm	0.5175 ppm	0.5396 ppm	5.2194 ppm	0.5334 ppm
Concentration per Run	0.5102 ppm	0.5182 ppm	0.5234 ppm	0.5184 ppm	0.5359 ppm	5.1597 ppm	0.5206 ppm
Concentration per Run	0.5082 ppm	0.5171 ppm	0.5213 ppm	0.5160 ppm	0.5327 ppm	5.1819 ppm	0.5308 ppm
Recovery Percentage	102.165 %	103.732 %	104.328 %	103.459 %	107.216 %	103.739 %	105.653 %
Concentration RSD	0.6 %	0.4 %	0.3 %	0.2 %	0.7 %	0.6 %	1.3 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.5147 ppm	0.5068 ppm	0.5062 ppm	10.3551 ppm	0.5252 ppm	0.4922 ppm	0.5212 ppm
Concentration per Run	0.5163 ppm	0.5065 ppm	0.5041 ppm	10.4083 ppm	0.5260 ppm	0.4920 ppm	0.5224 ppm
Concentration per Run	0.5134 ppm	0.5088 ppm	0.5076 ppm	10.2730 ppm	0.5266 ppm	0.4935 ppm	0.5179 ppm
Concentration per Run	0.5143 ppm	0.5052 ppm	0.5069 ppm	10.3841 ppm	0.5229 ppm	0.4912 ppm	0.5234 ppm
Recovery Percentage	102.932 %	101.365 %	101.243 %	103.551 %	105.036 %	98.446 %	104.248 %
Concentration RSD	0.3 %	0.4 %	0.4 %	0.7 %	0.4 %	0.2 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.4933 ppm	5.8058 ppm	0.5103 ppm	0.5112 ppm	0.5196 ppm	0.4817 ppm	0.5216 ppm
Concentration per Run	0.4894 ppm	5.8162 ppm	0.5112 ppm	0.5110 ppm	0.5201 ppm	0.4794 ppm	0.5220 ppm
Concentration per Run	0.4945 ppm	5.8085 ppm	0.5139 ppm	0.5119 ppm	0.5218 ppm	0.4824 ppm	0.5216 ppm
Concentration per Run	0.4959 ppm	5.7927 ppm	0.5059 ppm	0.5108 ppm	0.5169 ppm	0.4832 ppm	0.5211 ppm
Recovery Percentage	98.651 %	110.586 %	102.067 %	102.248 %	103.923 %	96.334 %	104.316 %
Concentration RSD	0.7 %	0.2 %	0.8 %	0.1 %	0.5 %	0.4 %	0.1 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5195 ppm	96.4156 %	101.8219 %	96.5142 %	92.3667 %	99.9231 %	94.6616 %
Concentration per Run	0.5222 ppm	96.0381 %	102.2082 %	96.6494 %	92.0008 %	100.2156 %	94.6218 %
Concentration per Run	0.5193 ppm	96.7371 %	101.7044 %	96.2914 %	92.7792 %	100.1708 %	94.5913 %
Concentration per Run	0.5169 ppm	96.4714 %	101.5531 %	96.6018 %	92.3202 %	99.3831 %	94.7719 %
Recovery Percentage	103.895 %						
Concentration RSD	0.5 %	0.4 %	0.3 %	0.2 %	0.4 %	0.5 %	0.1 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: CCB
 Analysis started at: 6/27/2025 12:30:39 PM
 Rack: 0
 Vial: 4
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0005 ppm	0.0054 ppm	0.0019 ppm	0.0002 ppm	0.0001 ppm	0.0000 ppm	-0.0008 ppm
Concentration per Run	0.0006 ppm	0.0065 ppm	0.0020 ppm	-0.0009 ppm	0.0001 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run	0.0004 ppm	0.0056 ppm	0.0024 ppm	0.0004 ppm	0.0001 ppm	0.0001 ppm	-0.0027 ppm
Concentration per Run	0.0005 ppm	0.0039 ppm	0.0014 ppm	0.0011 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm
Recovery Percentage	9.953 %	5.359 %	38.555 %	0.681 %	0.688 %	0.830 %	-0.831 %
Concentration RSD	19.6 %	24.5 %	25.1 %	502.2 %	39.8 %	25.5 %	191.7 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	0.0002 ppm	0.0000 ppm	0.0007 ppm	0.0071 ppm	-0.0011 ppm	-0.0003 ppm
Concentration per Run	0.0000 ppm	0.0004 ppm	0.0000 ppm	0.0008 ppm	0.0075 ppm	0.0007 ppm	-0.0001 ppm
Concentration per Run	0.0001 ppm	-0.0001 ppm	-0.0002 ppm	0.0007 ppm	0.0070 ppm	0.0051 ppm	-0.0004 ppm
Concentration per Run	0.0001 ppm	0.0003 ppm	0.0002 ppm	0.0005 ppm	0.0068 ppm	-0.0090 ppm	-0.0003 ppm
Recovery Percentage	0.871 %	1.891 %	0.222 %	6.519 %	14.172 %	-0.042 %	-2.974 %
Concentration RSD	153.5 %	161.6 %	960.5 %	17.9 %	5.7 %	682.6 %	51.0 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	-0.0001 ppm	0.0000 ppm	0.0077 ppm	0.0042 ppm	-0.0002 ppm	0.0005 ppm	0.0005 ppm
Concentration per Run	-0.0019 ppm	-0.0001 ppm	0.0081 ppm	0.0028 ppm	-0.0001 ppm	0.0006 ppm	-0.0003 ppm
Concentration per Run	0.0001 ppm	0.0001 ppm	0.0075 ppm	0.0049 ppm	-0.0002 ppm	0.0006 ppm	-0.0002 ppm
Concentration per Run	0.0014 ppm	0.0001 ppm	0.0075 ppm	0.0051 ppm	-0.0002 ppm	0.0002 ppm	0.0020 ppm
Recovery Percentage	-0.115 %	0.165 %	15.459 %	0.212 %	-0.632 %	4.655 %	1.089 %
Concentration RSD	1,457.1 %	650.2 %	4.7 %	29.3 %	29.6 %	49.4 %	239.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0105 ppm	0.0183 ppm	0.0004 ppm	0.0001 ppm	0.0006 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run	0.0094 ppm	0.0182 ppm	0.0004 ppm	0.0001 ppm	0.0006 ppm	-0.0002 ppm	0.0001 ppm
Concentration per Run	0.0125 ppm	0.0193 ppm	0.0000 ppm	0.0001 ppm	0.0005 ppm	0.0004 ppm	0.0000 ppm
Concentration per Run	0.0095 ppm	0.0173 ppm	0.0007 ppm	0.0001 ppm	0.0009 ppm	0.0000 ppm	0.0001 ppm
Recovery Percentage	104.621 %	3.652 %	0.760 %	0.602 %	6.433 %	0.403 %	0.596 %
Concentration RSD	16.9 %	5.5 %	89.2 %	12.6 %	30.7 %	428.7 %	148.0 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0003 ppm	94.6982 %	100.3833 %	94.4819 %	93.1585 %	100.5397 %	94.6819 %
Concentration per Run	-0.0001 ppm	94.3155 %	100.3336 %	94.5378 %	92.8052 %	100.2448 %	94.8279 %
Concentration per Run	-0.0004 ppm	94.7119 %	100.7599 %	94.5555 %	93.5075 %	100.4691 %	94.8277 %
Concentration per Run	-0.0003 ppm	95.0671 %	100.0563 %	94.3523 %	93.1627 %	100.9050 %	94.3900 %
Recovery Percentage	-5.330 %						
Concentration RSD	54.0 %	0.4 %	0.4 %	0.1 %	0.4 %	0.3 %	0.3 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: WG2084038-2 WG2084038
 Analysis started at: 6/27/2025 12:43:55 PM
 Rack: 1
 Vial: 31
 Comment: rr Al Na

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0551 ppm	2.2115 ppm	0.1209 ppm	1.0145 ppm	2.2266 ppm	0.0539 ppm	10.4806 ppm
Concentration per Run	0.0551 ppm	2.2092 ppm	0.1209 ppm	1.0191 ppm	2.2120 ppm	0.0538 ppm	10.5581 ppm
Concentration per Run	0.0549 ppm	2.2087 ppm	0.1209 ppm	1.0095 ppm	2.2318 ppm	0.0537 ppm	10.4884 ppm
Concentration per Run	0.0553 ppm	2.2166 ppm	0.1208 ppm	1.0150 ppm	2.2358 ppm	0.0540 ppm	10.3951 ppm
Concentration RSD	0.4 %	0.2 %	0.0 %	0.5 %	0.6 %	0.3 %	0.8 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0489 ppm	0.5253 ppm	0.2162 ppm	0.2708 ppm	1.0886 ppm	11.1687 ppm	-0.0001 ppm
Concentration per Run	0.0487 ppm	0.5262 ppm	0.2157 ppm	0.2721 ppm	1.0907 ppm	11.0838 ppm	-0.0001 ppm
Concentration per Run	0.0488 ppm	0.5246 ppm	0.2152 ppm	0.2693 ppm	1.0894 ppm	11.1461 ppm	0.0001 ppm
Concentration per Run	0.0492 ppm	0.5250 ppm	0.2176 ppm	0.2711 ppm	1.0857 ppm	11.2761 ppm	-0.0004 ppm
Concentration RSD	0.5 %	0.2 %	0.6 %	0.5 %	0.2 %	0.9 %	219.6 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	10.3114 ppm	0.5358 ppm	0.9548 ppm	11.5127 ppm	0.5370 ppm	0.5466 ppm	0.3204 ppm
Concentration per Run	10.2661 ppm	0.5372 ppm	0.9400 ppm	11.4281 ppm	0.5381 ppm	0.5468 ppm	0.3175 ppm
Concentration per Run	10.3293 ppm	0.5353 ppm	0.9515 ppm	11.4932 ppm	0.5349 ppm	0.5476 ppm	0.3200 ppm
Concentration per Run	10.3388 ppm	0.5348 ppm	0.9727 ppm	11.6168 ppm	0.5380 ppm	0.5455 ppm	0.3235 ppm
Concentration RSD	0.4 %	0.2 %	1.7 %	0.8 %	0.3 %	0.2 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.1137 ppm	0.9385 ppm	0.9989 ppm	1.0599 ppm	1.0780 ppm	0.1256 ppm	0.5515 ppm
Concentration per Run	0.1118 ppm	0.9442 ppm	0.9999 ppm	1.0516 ppm	1.0686 ppm	0.1253 ppm	0.5514 ppm
Concentration per Run	0.1142 ppm	0.9355 ppm	0.9932 ppm	1.0606 ppm	1.0829 ppm	0.1266 ppm	0.5517 ppm
Concentration per Run	0.1149 ppm	0.9358 ppm	1.0036 ppm	1.0676 ppm	1.0824 ppm	0.1250 ppm	0.5514 ppm
Concentration RSD	1.4 %	0.5 %	0.5 %	0.8 %	0.8 %	0.7 %	0.0 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5201 ppm	105.4751 %	103.6121 %	101.1192 %	100.2346 %	100.5675 %	99.5549 %
Concentration per Run	0.5209 ppm	105.4665 %	103.6760 %	101.5749 %	100.3362 %	100.1116 %	99.9181 %
Concentration per Run	0.5193 ppm	106.1016 %	103.9204 %	100.6909 %	101.1229 %	100.1321 %	99.4093 %
Concentration per Run	0.5202 ppm	104.8571 %	103.2399 %	101.0917 %	99.2446 %	101.4589 %	99.3372 %
Concentration RSD	0.2 %	0.6 %	0.3 %	0.4 %	0.9 %	0.8 %	0.3 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: L2539842-04D2 WG2084199
 Analysis started at: 6/27/2025 12:49:34 PM
 Rack: 1
 Vial: 25
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0041 ppm	208.2974 ppm	0.1793 ppm	0.0207 ppm	0.5499 ppm	0.0059 ppm	16.6254 ppm
Concentration per Run	0.0041 ppm	207.5404 ppm	0.1793 ppm	0.0221 ppm	0.5503 ppm	0.0057 ppm	16.9103 ppm
Concentration per Run	0.0041 ppm	209.1756 ppm	0.1770 ppm	0.0207 ppm	0.5488 ppm	0.0060 ppm	16.3712 ppm
Concentration per Run	0.0041 ppm	208.1761 ppm	0.1818 ppm	0.0193 ppm	0.5506 ppm	0.0059 ppm	16.5947 ppm
Concentration RSD	0.4 %	0.4 %	1.3 %	6.8 %	0.2 %	2.7 %	1.6 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0016 ppm	0.1530 ppm	0.4417 ppm	0.2748 ppm	291.0154 [SIC 500]	29.9029 ppm	0.2693 ppm
Concentration per Run	-0.0015 ppm	0.1528 ppm	0.4378 ppm	0.2747 ppm	288.7788 ppm	29.5196 ppm	0.2719 ppm
Concentration per Run	-0.0016 ppm	0.1520 ppm	0.4404 ppm	0.2752 ppm	292.1849 ppm	30.0166 ppm	0.2673 ppm
Concentration per Run	-0.0017 ppm	0.1542 ppm	0.4469 ppm	0.2745 ppm	292.0823 ppm	30.1725 ppm	0.2687 ppm
Concentration RSD	6.2 %	0.7 %	1.1 %	0.1 %	0.7 %	1.1 %	0.9 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	82.7307 ppm	6.2955 ppm	0.0130 ppm	0.9918 ppm	0.4883 ppm	0.1508 ppm	0.0402 ppm
Concentration per Run	81.8421 ppm	6.2941 ppm	0.0132 ppm	0.9797 ppm	0.4841 ppm	0.1523 ppm	0.0388 ppm
Concentration per Run	82.3629 ppm	6.2858 ppm	0.0128 ppm	1.0116 ppm	0.4856 ppm	0.1498 ppm	0.0413 ppm
Concentration per Run	83.9870 ppm	6.3066 ppm	0.0129 ppm	0.9841 ppm	0.4953 ppm	0.1503 ppm	0.0405 ppm
Concentration RSD	1.4 %	0.2 %	1.7 %	1.7 %	1.3 %	0.9 %	3.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0014 ppm	20.6937 [SIC 200]	0.0176 ppm	0.1954 ppm	4.6442 ppm	0.0053 ppm	0.3360 ppm
Concentration per Run	0.0024 ppm	20.7904 ppm	0.0172 ppm	0.1941 ppm	4.6042 ppm	0.0051 ppm	0.3350 ppm
Concentration per Run	0.0004 ppm	20.8713 ppm	0.0182 ppm	0.1959 ppm	4.6590 ppm	0.0046 ppm	0.3355 ppm
Concentration per Run	0.0015 ppm	20.4195 ppm	0.0173 ppm	0.1961 ppm	4.6695 ppm	0.0063 ppm	0.3375 ppm
Concentration RSD	68.9 %	1.2 %	3.0 %	0.6 %	0.8 %	15.9 %	0.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6940 ppm	104.6105 %	108.1149 %	90.9991 %	123.3479 %	138.3915 %	125.4219 %
Concentration per Run	0.6901 ppm	104.8617 %	108.5655 %	91.5628 %	122.9930 %	135.2648 %	125.5609 %
Concentration per Run	0.6882 ppm	105.1815 %	107.7506 %	90.9443 %	123.9221 %	141.8167 %	125.4408 %
Concentration per Run	0.7036 ppm	103.7884 %	108.0286 %	90.4902 %	123.1286 %	138.0931 %	125.2640 %
Concentration RSD	1.2 %	0.7 %	0.4 %	0.6 %	0.4 %	2.4 %	0.1 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: L2539842-05D2 WG2084199
 Analysis started at: 6/27/2025 12:52:59 PM
 Rack: 1
 Vial: 26
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0028 ppm	119.7752 ppm	0.2985 ppm	0.0139 ppm	0.5531 ppm	0.0031 ppm	36.9599 ppm
Concentration per Run	0.0028 ppm	120.0225 ppm	0.2990 ppm	0.0139 ppm	0.5585 ppm	0.0031 ppm	37.1009 ppm
Concentration per Run	0.0028 ppm	119.8034 ppm	0.3008 ppm	0.0137 ppm	0.5488 ppm	0.0032 ppm	36.7927 ppm
Concentration per Run	0.0029 ppm	119.4997 ppm	0.2957 ppm	0.0142 ppm	0.5522 ppm	0.0031 ppm	36.9862 ppm
Concentration RSD	1.0 %	0.2 %	0.9 %	1.9 %	0.9 %	2.1 %	0.4 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0008 ppm	0.1463 ppm	0.2740 ppm	0.2293 ppm	206.9321 [SIC 500]	22.2796 ppm	0.1545 ppm
Concentration per Run	-0.0009 ppm	0.1462 ppm	0.2734 ppm	0.2300 ppm	206.3302 ppm	22.3617 ppm	0.1586 ppm
Concentration per Run	-0.0008 ppm	0.1466 ppm	0.2750 ppm	0.2293 ppm	206.7738 ppm	22.1670 ppm	0.1519 ppm
Concentration per Run	-0.0007 ppm	0.1461 ppm	0.2735 ppm	0.2285 ppm	207.6923 ppm	22.3100 ppm	0.1529 ppm
Concentration RSD	14.7 %	0.2 %	0.3 %	0.3 %	0.3 %	0.5 %	2.3 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	64.4722 ppm	5.8469 ppm	0.0084 ppm	2.8972 ppm	0.4307 ppm	0.1737 ppm	0.0161 ppm
Concentration per Run	64.3876 ppm	5.8420 ppm	0.0084 ppm	2.9021 ppm	0.4311 ppm	0.1749 ppm	0.0147 ppm
Concentration per Run	64.9346 ppm	5.8369 ppm	0.0088 ppm	2.9022 ppm	0.4323 ppm	0.1731 ppm	0.0189 ppm
Concentration per Run	64.0943 ppm	5.8619 ppm	0.0081 ppm	2.8872 ppm	0.4288 ppm	0.1730 ppm	0.0149 ppm
Concentration RSD	0.7 %	0.2 %	4.5 %	0.3 %	0.4 %	0.6 %	14.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0014 ppm	31.8839 [SIC 200]	0.0086 ppm	0.2652 ppm	4.4699 ppm	0.0038 ppm	0.2375 ppm
Concentration per Run	-0.0006 ppm	31.8657 ppm	0.0086 ppm	0.2660 ppm	4.4654 ppm	0.0035 ppm	0.2377 ppm
Concentration per Run	0.0031 ppm	31.8971 ppm	0.0087 ppm	0.2659 ppm	4.4936 ppm	0.0046 ppm	0.2382 ppm
Concentration per Run	0.0018 ppm	31.8889 ppm	0.0086 ppm	0.2638 ppm	4.4506 ppm	0.0034 ppm	0.2367 ppm
Concentration RSD	131.3 %	0.1 %	1.1 %	0.5 %	0.5 %	17.2 %	0.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4596 ppm	99.5625 %	105.1231 %	89.1305 %	111.5959 %	126.2797 %	113.5619 %
Concentration per Run	0.4580 ppm	99.6771 %	105.2020 %	89.7360 %	111.8157 %	124.5606 %	113.9957 %
Concentration per Run	0.4608 ppm	99.7562 %	105.2651 %	88.6922 %	111.8959 %	127.6942 %	113.7267 %
Concentration per Run	0.4600 ppm	99.2543 %	104.9023 %	88.9634 %	111.0760 %	126.5842 %	112.9632 %
Concentration RSD	0.3 %	0.3 %	0.2 %	0.6 %	0.4 %	1.3 %	0.5 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: L2539842-06D2 WG2084199
 Analysis started at: 6/27/2025 12:56:21 PM
 Rack: 1
 Vial: 27
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0027 ppm	109.5131 ppm	0.2367 ppm	0.0132 ppm	0.5050 ppm	0.0032 ppm	25.4566 ppm
Concentration per Run	0.0032 ppm	110.2123 ppm	0.2372 ppm	0.0143 ppm	0.5149 ppm	0.0032 ppm	25.3963 ppm
Concentration per Run	0.0026 ppm	109.1540 ppm	0.2362 ppm	0.0137 ppm	0.4991 ppm	0.0032 ppm	25.5178 ppm
Concentration per Run	0.0023 ppm	109.1730 ppm	0.2366 ppm	0.0117 ppm	0.5011 ppm	0.0032 ppm	25.4556 ppm
Concentration RSD	17.6 %	0.6 %	0.2 %	10.2 %	1.7 %	1.2 %	0.2 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0009 ppm	0.1196 ppm	0.2288 ppm	0.1743 ppm	176.6936 ppm	19.4470 ppm	0.1364 ppm
Concentration per Run	-0.0009 ppm	0.1198 ppm	0.2278 ppm	0.1736 ppm	176.6349 ppm	19.5886 ppm	0.1403 ppm
Concentration per Run	-0.0010 ppm	0.1189 ppm	0.2284 ppm	0.1747 ppm	176.0629 ppm	19.2930 ppm	0.1346 ppm
Concentration per Run	-0.0009 ppm	0.1200 ppm	0.2303 ppm	0.1746 ppm	177.3832 ppm	19.4595 ppm	0.1342 ppm
Concentration RSD	5.5 %	0.5 %	0.6 %	0.3 %	0.4 %	0.8 %	2.5 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	55.6885 ppm	4.0419 ppm	0.0047 ppm	2.4707 ppm	0.3730 ppm	0.0984 ppm	0.0097 ppm
Concentration per Run	55.4633 ppm	4.0378 ppm	0.0042 ppm	2.5033 ppm	0.3714 ppm	0.0982 ppm	0.0105 ppm
Concentration per Run	55.3566 ppm	4.0380 ppm	0.0053 ppm	2.4549 ppm	0.3730 ppm	0.0985 ppm	0.0088 ppm
Concentration per Run	56.2456 ppm	4.0501 ppm	0.0046 ppm	2.4539 ppm	0.3745 ppm	0.0984 ppm	0.0098 ppm
Concentration RSD	0.9 %	0.2 %	11.4 %	1.1 %	0.4 %	0.2 %	8.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0028 ppm	32.0554 [SIC 200]	0.0072 ppm	0.1997 ppm	3.9356 ppm	0.0030 ppm	0.1985 ppm
Concentration per Run	0.0044 ppm	32.2878 ppm	0.0068 ppm	0.2021 ppm	3.9288 ppm	0.0051 ppm	0.1985 ppm
Concentration per Run	0.0039 ppm	32.0976 ppm	0.0071 ppm	0.1981 ppm	3.9146 ppm	0.0015 ppm	0.1980 ppm
Concentration per Run	0.0000 ppm	31.7809 ppm	0.0076 ppm	0.1988 ppm	3.9635 ppm	0.0025 ppm	0.1989 ppm
Concentration RSD	85.9 %	0.8 %	5.7 %	1.1 %	0.6 %	61.4 %	0.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3740 ppm	100.0006 %	104.3348 %	90.3865 %	107.9414 %	125.3035 %	109.6463 %
Concentration per Run	0.3735 ppm	100.1051 %	104.5045 %	90.7427 %	107.6292 %	124.2034 %	110.2662 %
Concentration per Run	0.3751 ppm	100.1812 %	104.6080 %	90.4442 %	107.9155 %	125.5947 %	109.5251 %
Concentration per Run	0.3732 ppm	99.7155 %	103.8921 %	89.9727 %	108.2795 %	126.1124 %	109.1477 %
Concentration RSD	0.3 %	0.2 %	0.4 %	0.4 %	0.3 %	0.8 %	0.5 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: L2539842-07D2 WG2084199
 Analysis started at: 6/27/2025 12:59:44 PM
 Rack: 1
 Vial: 28
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0034 ppm	166.5926 ppm	0.1985 ppm	0.0361 ppm	0.7257 ppm	0.0048 ppm	20.1007 ppm
Concentration per Run	0.0034 ppm	167.5269 ppm	0.1987 ppm	0.0370 ppm	0.7252 ppm	0.0050 ppm	20.0295 ppm
Concentration per Run	0.0033 ppm	166.4992 ppm	0.1999 ppm	0.0357 ppm	0.7241 ppm	0.0048 ppm	20.1418 ppm
Concentration per Run	0.0033 ppm	165.7516 ppm	0.1970 ppm	0.0356 ppm	0.7279 ppm	0.0047 ppm	20.1307 ppm
Concentration RSD	1.5 %	0.5 %	0.7 %	2.2 %	0.3 %	3.6 %	0.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0009 ppm	0.1242 ppm	0.3563 ppm	0.2354 ppm	234.3850 [SIC 500]	28.0458 ppm	0.2060 ppm
Concentration per Run	-0.0009 ppm	0.1241 ppm	0.3574 ppm	0.2355 ppm	236.7408 ppm	28.1207 ppm	0.2074 ppm
Concentration per Run	-0.0009 ppm	0.1239 ppm	0.3554 ppm	0.2351 ppm	234.3117 ppm	27.9931 ppm	0.2058 ppm
Concentration per Run	-0.0008 ppm	0.1245 ppm	0.3562 ppm	0.2355 ppm	232.1025 ppm	28.0236 ppm	0.2047 ppm
Concentration RSD	9.0 %	0.3 %	0.3 %	0.1 %	1.0 %	0.2 %	0.7 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	66.3909 ppm	7.3239 ppm	0.0037 ppm	2.2815 ppm	0.3792 ppm	0.7302 ppm	0.0131 ppm
Concentration per Run	66.6223 ppm	7.3327 ppm	0.0039 ppm	2.3207 ppm	0.3802 ppm	0.7307 ppm	0.0106 ppm
Concentration per Run	66.4291 ppm	7.3233 ppm	0.0034 ppm	2.2770 ppm	0.3804 ppm	0.7307 ppm	0.0150 ppm
Concentration per Run	66.1212 ppm	7.3158 ppm	0.0038 ppm	2.2468 ppm	0.3769 ppm	0.7291 ppm	0.0137 ppm
Concentration RSD	0.4 %	0.1 %	6.4 %	1.6 %	0.5 %	0.1 %	17.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0011 ppm	33.1510 [SIC 200]	0.0134 ppm	0.1383 ppm	5.7686 ppm	0.0048 ppm	0.3027 ppm
Concentration per Run	0.0020 ppm	33.6295 ppm	0.0132 ppm	0.1395 ppm	5.7958 ppm	0.0045 ppm	0.3040 ppm
Concentration per Run	0.0008 ppm	33.1414 ppm	0.0133 ppm	0.1377 ppm	5.7503 ppm	0.0043 ppm	0.3025 ppm
Concentration per Run	0.0006 ppm	32.6820 ppm	0.0136 ppm	0.1377 ppm	5.7598 ppm	0.0055 ppm	0.3017 ppm
Concentration RSD	64.1 %	1.4 %	1.6 %	0.7 %	0.4 %	13.3 %	0.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6638 ppm	101.5832 %	106.5005 %	89.1745 %	115.6554 %	134.4961 %	118.7079 %
Concentration per Run	0.6677 ppm	101.1818 %	106.0811 %	89.4323 %	115.1638 %	137.9615 %	119.1223 %
Concentration per Run	0.6641 ppm	101.9075 %	106.6528 %	88.9602 %	115.8167 %	134.6758 %	118.4508 %
Concentration per Run	0.6596 ppm	101.6603 %	106.7675 %	89.1309 %	115.9858 %	130.8508 %	118.5506 %
Concentration RSD	0.6 %	0.4 %	0.3 %	0.3 %	0.4 %	2.6 %	0.3 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: L2539842-08D2 WG2084199
 Analysis started at: 6/27/2025 1:03:06 PM
 Rack: 1
 Vial: 29
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0034 ppm	121.7863 ppm	0.1229 ppm	0.0123 ppm	0.6054 ppm	0.0035 ppm	16.3633 ppm
Concentration per Run	0.0031 ppm	122.1305 ppm	0.1210 ppm	0.0126 ppm	0.6084 ppm	0.0036 ppm	16.2221 ppm
Concentration per Run	0.0035 ppm	121.8542 ppm	0.1236 ppm	0.0122 ppm	0.6052 ppm	0.0035 ppm	16.4107 ppm
Concentration per Run	0.0037 ppm	121.3743 ppm	0.1240 ppm	0.0121 ppm	0.6027 ppm	0.0034 ppm	16.4570 ppm
Concentration RSD	8.5 %	0.3 %	1.3 %	2.3 %	0.5 %	2.3 %	0.8 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0018 ppm	0.0922 ppm	0.2455 ppm	0.2079 ppm	176.1302 ppm	11.6688 ppm	0.1669 ppm
Concentration per Run	0.0017 ppm	0.0921 ppm	0.2473 ppm	0.2090 ppm	176.3139 ppm	11.7381 ppm	0.1686 ppm
Concentration per Run	0.0018 ppm	0.0930 ppm	0.2460 ppm	0.2073 ppm	176.3447 ppm	11.6538 ppm	0.1668 ppm
Concentration per Run	0.0019 ppm	0.0915 ppm	0.2431 ppm	0.2075 ppm	175.7319 ppm	11.6147 ppm	0.1654 ppm
Concentration RSD	4.9 %	0.8 %	0.9 %	0.4 %	0.2 %	0.5 %	0.9 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	45.3415 ppm	4.5994 ppm	0.0040 ppm	1.1554 ppm	0.2601 ppm	0.8996 ppm	0.0083 ppm
Concentration per Run	46.1600 ppm	4.5859 ppm	0.0036 ppm	1.1753 ppm	0.2624 ppm	0.9000 ppm	0.0091 ppm
Concentration per Run	45.2396 ppm	4.6084 ppm	0.0047 ppm	1.1470 ppm	0.2614 ppm	0.9013 ppm	0.0064 ppm
Concentration per Run	44.6250 ppm	4.6040 ppm	0.0039 ppm	1.1438 ppm	0.2563 ppm	0.8976 ppm	0.0093 ppm
Concentration RSD	1.7 %	0.3 %	14.0 %	1.5 %	1.3 %	0.2 %	19.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0021 ppm	22.6659 [SIC 200]	0.0328 ppm	0.1195 ppm	4.8296 ppm	0.0015 ppm	0.2431 ppm
Concentration per Run	0.0013 ppm	22.8044 ppm	0.0321 ppm	0.1202 ppm	4.8925 ppm	0.0019 ppm	0.2455 ppm
Concentration per Run	0.0006 ppm	22.6654 ppm	0.0320 ppm	0.1196 ppm	4.8125 ppm	0.0006 ppm	0.2425 ppm
Concentration per Run	0.0043 ppm	22.5278 ppm	0.0343 ppm	0.1187 ppm	4.7837 ppm	0.0018 ppm	0.2413 ppm
Concentration RSD	96.4 %	0.6 %	4.0 %	0.6 %	1.2 %	49.3 %	0.9 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	1.2969 ppm	98.9527 %	105.1647 %	90.3664 %	107.8328 %	118.9417 %	110.9828 %
Concentration per Run	1.2975 ppm	97.9367 %	105.3427 %	90.7079 %	106.9424 %	120.6225 %	111.4988 %
Concentration per Run	1.3013 ppm	99.3473 %	105.2348 %	89.9543 %	108.3966 %	118.4079 %	110.2214 %
Concentration per Run	1.2919 ppm	99.5740 %	104.9167 %	90.4370 %	108.1593 %	117.7946 %	111.2282 %
Concentration RSD	0.4 %	0.9 %	0.2 %	0.4 %	0.7 %	1.3 %	0.6 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: L2539842-09D2 WG2084199
 Analysis started at: 6/27/2025 1:06:30 PM
 Rack: 1
 Vial: 30
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0022 ppm	75.3429 ppm	0.1743 ppm	0.0078 ppm	0.7560 ppm	0.0022 ppm	100.2177 ppm
Concentration per Run	0.0018 ppm	75.9614 ppm	0.1756 ppm	0.0071 ppm	0.7613 ppm	0.0023 ppm	101.2348 ppm
Concentration per Run	0.0023 ppm	75.1226 ppm	0.1739 ppm	0.0079 ppm	0.7524 ppm	0.0022 ppm	101.0470 ppm
Concentration per Run	0.0026 ppm	74.9448 ppm	0.1736 ppm	0.0085 ppm	0.7544 ppm	0.0023 ppm	98.3712 ppm
Concentration RSD	18.5 %	0.7 %	0.6 %	9.0 %	0.6 %	1.7 %	1.6 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0006 ppm	0.0627 ppm	0.1698 ppm	0.1747 ppm	127.9504 ppm	8.6923 ppm	0.1032 ppm
Concentration per Run	0.0006 ppm	0.0627 ppm	0.1702 ppm	0.1760 ppm	129.0181 ppm	8.7524 ppm	0.1049 ppm
Concentration per Run	0.0005 ppm	0.0629 ppm	0.1699 ppm	0.1746 ppm	128.1346 ppm	8.6138 ppm	0.1021 ppm
Concentration per Run	0.0006 ppm	0.0624 ppm	0.1692 ppm	0.1734 ppm	126.6986 ppm	8.7106 ppm	0.1025 ppm
Concentration RSD	6.3 %	0.4 %	0.3 %	0.7 %	0.9 %	0.8 %	1.5 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	34.3094 ppm	3.6251 ppm	0.0029 ppm	0.9864 ppm	0.1755 ppm	4.7063 ppm	0.0084 ppm
Concentration per Run	34.3752 ppm	3.6466 ppm	0.0030 ppm	0.9998 ppm	0.1778 ppm	4.7132 ppm	0.0083 ppm
Concentration per Run	34.2827 ppm	3.6422 ppm	0.0026 ppm	0.9802 ppm	0.1746 ppm	4.7140 ppm	0.0097 ppm
Concentration per Run	34.2701 ppm	3.5864 ppm	0.0032 ppm	0.9791 ppm	0.1743 ppm	4.6917 ppm	0.0074 ppm
Concentration RSD	0.2 %	0.9 %	10.7 %	1.2 %	1.1 %	0.3 %	13.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0013 ppm	19.6657 [SIC 200]	0.0310 ppm	0.3413 ppm	3.2545 ppm	0.0013 ppm	0.1594 ppm
Concentration per Run	0.0006 ppm	19.8746 ppm	0.0300 ppm	0.3437 ppm	3.2682 ppm	0.0015 ppm	0.1603 ppm
Concentration per Run	0.0027 ppm	19.6318 ppm	0.0306 ppm	0.3393 ppm	3.2662 ppm	0.0016 ppm	0.1590 ppm
Concentration per Run	0.0007 ppm	19.4907 ppm	0.0324 ppm	0.3410 ppm	3.2291 ppm	0.0006 ppm	0.1588 ppm
Concentration RSD	88.3 %	1.0 %	4.0 %	0.7 %	0.7 %	42.5 %	0.5 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	1.6159 ppm	97.2520 %	102.3268 %	89.1357 %	102.8649 %	111.9667 %	104.2150 %
Concentration per Run	1.6218 ppm	97.1406 %	101.6597 %	89.1176 %	102.9416 %	111.3317 %	104.0946 %
Concentration per Run	1.6184 ppm	97.2767 %	102.6072 %	89.3340 %	103.0000 %	112.1956 %	104.3779 %
Concentration per Run	1.6074 ppm	97.3387 %	102.7136 %	88.9553 %	102.6531 %	112.3729 %	104.1723 %
Concentration RSD	0.5 %	0.1 %	0.6 %	0.2 %	0.2 %	0.5 %	0.1 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: CCV
 Analysis started at: 6/27/2025 1:09:54 PM
 Rack: 0
 Vial: 3
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.5426 ppm	0.5094 ppm	0.5165 ppm	0.5373 ppm	0.5343 ppm	0.5329 ppm	0.5123 ppm
Concentration per Run	0.5413 ppm	0.5115 ppm	0.5182 ppm	0.5308 ppm	0.5334 ppm	0.5322 ppm	0.5110 ppm
Concentration per Run	0.5458 ppm	0.5094 ppm	0.5137 ppm	0.5398 ppm	0.5376 ppm	0.5342 ppm	0.5130 ppm
Concentration per Run	0.5408 ppm	0.5073 ppm	0.5175 ppm	0.5412 ppm	0.5319 ppm	0.5324 ppm	0.5130 ppm
Recovery Percentage	108.524 %	101.879 %	103.291 %	107.455 %	106.865 %	106.586 %	102.468 %
Concentration RSD	0.5 %	0.4 %	0.5 %	1.0 %	0.6 %	0.2 %	0.2 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.5253 ppm	0.5371 ppm	0.5398 ppm	0.5408 ppm	0.5554 ppm	5.4637 ppm	0.5606 ppm
Concentration per Run	0.5242 ppm	0.5358 ppm	0.5363 ppm	0.5404 ppm	0.5601 ppm	5.5138 ppm	0.5651 ppm
Concentration per Run	0.5264 ppm	0.5393 ppm	0.5447 ppm	0.5438 ppm	0.5546 ppm	5.4655 ppm	0.5579 ppm
Concentration per Run	0.5253 ppm	0.5363 ppm	0.5384 ppm	0.5383 ppm	0.5516 ppm	5.4118 ppm	0.5589 ppm
Recovery Percentage	105.063 %	107.429 %	107.959 %	108.164 %	111.088 %	109.275 %	112.126 %
Concentration RSD	0.2 %	0.3 %	0.8 %	0.5 %	0.8 %	0.9 %	0.7 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.5322 ppm	0.5265 ppm	0.5260 ppm	10.9676 ppm	0.5449 ppm	0.5099 ppm	0.5433 ppm
Concentration per Run	0.5291 ppm	0.5249 ppm	0.5227 ppm	10.9950 ppm	0.5446 ppm	0.5123 ppm	0.5398 ppm
Concentration per Run	0.5353 ppm	0.5281 ppm	0.5262 ppm	10.9443 ppm	0.5452 ppm	0.5073 ppm	0.5489 ppm
Concentration per Run	0.5321 ppm	0.5266 ppm	0.5291 ppm	10.9635 ppm	0.5449 ppm	0.5102 ppm	0.5412 ppm
Recovery Percentage	106.437 %	105.306 %	105.202 %	109.676 %	108.980 %	101.986 %	108.661 %
Concentration RSD	0.6 %	0.3 %	0.6 %	0.2 %	0.1 %	0.5 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.5181 ppm	6.0560 ppm	0.5290 ppm	0.5392 ppm	0.5394 ppm	0.5000 ppm	0.5409 ppm
Concentration per Run	0.5174 ppm	6.0281 ppm	0.5282 ppm	0.5402 ppm	0.5353 ppm	0.5026 ppm	0.5400 ppm
Concentration per Run	0.5147 ppm	6.0743 ppm	0.5352 ppm	0.5404 ppm	0.5448 ppm	0.4968 ppm	0.5423 ppm
Concentration per Run	0.5223 ppm	6.0657 ppm	0.5236 ppm	0.5370 ppm	0.5382 ppm	0.5005 ppm	0.5406 ppm
Recovery Percentage	103.626 %	115.353 %	105.797 %	107.836 %	107.890 %	99.997 %	108.190 %
Concentration RSD	0.7 %	0.4 %	1.1 %	0.4 %	0.9 %	0.6 %	0.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5370 ppm	93.7819 %	98.1633 %	92.7852 %	90.4362 %	97.7100 %	91.5354 %
Concentration per Run	0.5361 ppm	94.1895 %	98.0580 %	92.6163 %	91.0577 %	97.8718 %	91.3919 %
Concentration per Run	0.5382 ppm	93.7574 %	98.6055 %	93.0645 %	90.4373 %	97.8704 %	91.8990 %
Concentration per Run	0.5368 ppm	93.3989 %	97.8265 %	92.6748 %	89.8136 %	97.3879 %	91.3154 %
Recovery Percentage	107.409 %						
Concentration RSD	0.2 %	0.4 %	0.4 %	0.3 %	0.7 %	0.3 %	0.3 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: CCB
 Analysis started at: 6/27/2025 1:13:17 PM
 Rack: 0
 Vial: 4
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0001 ppm	0.0026 ppm	0.0022 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	-0.0008 ppm
Concentration per Run	0.0002 ppm	0.0017 ppm	0.0024 ppm	-0.0008 ppm	0.0000 ppm	0.0001 ppm	-0.0009 ppm
Concentration per Run	0.0001 ppm	0.0046 ppm	0.0017 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	-0.0013 ppm
Concentration per Run	0.0000 ppm	0.0015 ppm	0.0024 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	-0.0003 ppm
Recovery Percentage	1.704 %	2.606 %	43.663 %	-0.097 %	0.071 %	0.878 %	-0.841 %
Concentration RSD	128.0 %	67.4 %	18.3 %	2,333.4 %	338.8 %	23.5 %	57.0 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0005 ppm	0.0058 ppm	0.0133 ppm	-0.0004 ppm
Concentration per Run	0.0001 ppm	0.0005 ppm	0.0002 ppm	0.0004 ppm	0.0059 ppm	0.0187 ppm	-0.0003 ppm
Concentration per Run	0.0001 ppm	-0.0001 ppm	-0.0001 ppm	0.0004 ppm	0.0065 ppm	0.0064 ppm	-0.0002 ppm
Concentration per Run	0.0001 ppm	-0.0004 ppm	0.0000 ppm	0.0006 ppm	0.0050 ppm	0.0148 ppm	-0.0006 ppm
Recovery Percentage	2.300 %	-0.103 %	0.325 %	4.559 %	11.561 %	0.531 %	-3.784 %
Concentration RSD	26.3 %	4,077.3 %	554.7 %	19.1 %	12.6 %	47.2 %	60.7 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	-0.0005 ppm	0.0001 ppm	0.0083 ppm	0.0057 ppm	0.0006 ppm	0.0011 ppm	-0.0022 ppm
Concentration per Run	-0.0026 ppm	0.0000 ppm	0.0089 ppm	0.0043 ppm	0.0009 ppm	0.0005 ppm	-0.0069 ppm
Concentration per Run	0.0006 ppm	0.0001 ppm	0.0082 ppm	0.0054 ppm	0.0006 ppm	0.0017 ppm	0.0000 ppm
Concentration per Run	0.0003 ppm	0.0001 ppm	0.0078 ppm	0.0073 ppm	0.0003 ppm	0.0012 ppm	0.0003 ppm
Recovery Percentage	-0.548 %	0.951 %	16.638 %	0.283 %	2.472 %	11.232 %	-4.382 %
Concentration RSD	325.0 %	63.4 %	6.8 %	26.6 %	51.5 %	53.3 %	187.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0110 ppm	0.0261 ppm	0.0010 ppm	0.0001 ppm	0.0004 ppm	0.0008 ppm	0.0000 ppm
Concentration per Run	0.0115 ppm	0.0276 ppm	0.0014 ppm	0.0000 ppm	0.0004 ppm	0.0009 ppm	0.0000 ppm
Concentration per Run	0.0109 ppm	0.0248 ppm	0.0007 ppm	0.0000 ppm	0.0005 ppm	-0.0003 ppm	-0.0002 ppm
Concentration per Run	0.0106 ppm	0.0260 ppm	0.0008 ppm	0.0001 ppm	0.0005 ppm	0.0018 ppm	0.0001 ppm
Recovery Percentage	110.292 %	5.222 %	1.944 %	0.503 %	4.470 %	4.139 %	-0.407 %
Concentration RSD	4.1 %	5.4 %	36.6 %	21.9 %	14.0 %	129.6 %	374.5 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0004 ppm	94.9947 %	101.1911 %	95.1011 %	93.7520 %	101.8088 %	95.5676 %
Concentration per Run	-0.0004 ppm	94.9030 %	101.6102 %	94.9084 %	93.6683 %	101.9979 %	95.3867 %
Concentration per Run	-0.0005 ppm	95.5565 %	101.2992 %	94.9811 %	94.2862 %	102.4362 %	95.6493 %
Concentration per Run	-0.0003 ppm	94.5247 %	100.6639 %	95.4137 %	93.3015 %	100.9922 %	95.6668 %
Recovery Percentage	-7.751 %						
Concentration RSD	23.7 %	0.5 %	0.5 %	0.3 %	0.5 %	0.7 %	0.2 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: CCV
 Analysis started at: 6/27/2025 1:33:33 PM
 Rack: 0
 Vial: 3
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.4970 ppm	0.4755 ppm	0.4614 ppm	0.4770 ppm	0.5040 ppm	0.5031 ppm	0.4843 ppm
Concentration per Run	0.4969 ppm	0.4759 ppm	0.4667 ppm	0.4743 ppm	0.5054 ppm	0.5023 ppm	0.4850 ppm
Concentration per Run	0.4969 ppm	0.4755 ppm	0.4574 ppm	0.4807 ppm	0.5016 ppm	0.5022 ppm	0.4858 ppm
Concentration per Run	0.4973 ppm	0.4751 ppm	0.4600 ppm	0.4760 ppm	0.5049 ppm	0.5048 ppm	0.4822 ppm
Recovery Percentage	99.407 %	95.095 %	92.276 %	95.395 %	100.794 %	100.617 %	96.864 %
Concentration RSD	0.0 %	0.1 %	1.0 %	0.7 %	0.4 %	0.3 %	0.4 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.4778 ppm	0.4953 ppm	0.4976 ppm	0.5043 ppm	0.4992 ppm	5.1614 ppm	0.5201 ppm
Concentration per Run	0.4782 ppm	0.4947 ppm	0.4951 ppm	0.5039 ppm	0.5001 ppm	5.2207 ppm	0.5238 ppm
Concentration per Run	0.4776 ppm	0.4952 ppm	0.4975 ppm	0.5046 ppm	0.4988 ppm	5.1141 ppm	0.5168 ppm
Concentration per Run	0.4776 ppm	0.4960 ppm	0.5001 ppm	0.5044 ppm	0.4988 ppm	5.1494 ppm	0.5196 ppm
Recovery Percentage	95.560 %	99.063 %	99.512 %	100.866 %	99.845 %	103.228 %	104.014 %
Concentration RSD	0.1 %	0.1 %	0.5 %	0.1 %	0.1 %	1.1 %	0.7 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.4850 ppm	0.4983 ppm	0.4872 ppm	10.3938 ppm	0.4962 ppm	0.4824 ppm	0.4908 ppm
Concentration per Run	0.4805 ppm	0.4973 ppm	0.4835 ppm	10.3725 ppm	0.4937 ppm	0.4827 ppm	0.4939 ppm
Concentration per Run	0.4862 ppm	0.4992 ppm	0.4866 ppm	10.3630 ppm	0.4958 ppm	0.4813 ppm	0.4920 ppm
Concentration per Run	0.4883 ppm	0.4984 ppm	0.4916 ppm	10.4459 ppm	0.4989 ppm	0.4833 ppm	0.4865 ppm
Recovery Percentage	96.997 %	99.656 %	97.441 %	103.938 %	99.232 %	96.485 %	98.160 %
Concentration RSD	0.8 %	0.2 %	0.8 %	0.4 %	0.5 %	0.2 %	0.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.4660 ppm	5.4315 ppm	0.4860 ppm	0.5079 ppm	0.5045 ppm	0.4841 ppm	0.5043 ppm
Concentration per Run	0.4637 ppm	5.4224 ppm	0.4865 ppm	0.5087 ppm	0.5034 ppm	0.4871 ppm	0.5037 ppm
Concentration per Run	0.4653 ppm	5.4320 ppm	0.4849 ppm	0.5058 ppm	0.5061 ppm	0.4808 ppm	0.5045 ppm
Concentration per Run	0.4691 ppm	5.4402 ppm	0.4866 ppm	0.5093 ppm	0.5041 ppm	0.4844 ppm	0.5047 ppm
Recovery Percentage	93.209 %	103.458 %	97.205 %	101.587 %	100.908 %	96.822 %	100.861 %
Concentration RSD	0.6 %	0.2 %	0.2 %	0.4 %	0.3 %	0.7 %	0.1 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4821 ppm	104.5217 %	102.6791 %	102.1504 %	100.5242 %	102.0757 %	99.9877 %
Concentration per Run	0.4809 ppm	104.9416 %	102.8840 %	101.9069 %	100.7655 %	101.3573 %	100.1023 %
Concentration per Run	0.4815 ppm	103.9249 %	102.3641 %	102.6122 %	100.0952 %	101.7704 %	100.0781 %
Concentration per Run	0.4838 ppm	104.6985 %	102.7893 %	101.9322 %	100.7118 %	103.0995 %	99.7828 %
Recovery Percentage	96.420 %						
Concentration RSD	0.3 %	0.5 %	0.3 %	0.4 %	0.4 %	0.9 %	0.2 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: CCB
Analysis started at: 6/27/2025 1:37:12 PM
Rack: 0
Vial: 4
Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0004 ppm	0.0002 ppm	0.0019 ppm	0.0007 ppm	0.0001 ppm	0.0001 ppm	-0.0007 ppm
Concentration per Run	0.0004 ppm	0.0023 ppm	0.0020 ppm	0.0008 ppm	0.0001 ppm	0.0001 ppm	-0.0019 ppm
Concentration per Run	0.0003 ppm	-0.0031 ppm	0.0021 ppm	0.0007 ppm	0.0001 ppm	0.0001 ppm	0.0015 ppm
Concentration per Run	0.0005 ppm	0.0014 ppm	0.0017 ppm	0.0008 ppm	0.0000 ppm	0.0001 ppm	-0.0016 ppm
Recovery Percentage	7.723 %	0.225 %	38.556 %	2.459 %	0.614 %	2.095 %	-0.663 %
Concentration RSD	31.1 %	1,288.0 %	11.4 %	7.0 %	30.2 %	8.9 %	283.5 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0001 ppm	0.0002 ppm	0.0003 ppm	0.0006 ppm	0.0012 ppm	-0.0020 ppm	-0.0003 ppm
Concentration per Run	0.0000 ppm	0.0006 ppm	0.0003 ppm	0.0006 ppm	0.0009 ppm	0.0021 ppm	-0.0006 ppm
Concentration per Run	0.0001 ppm	0.0000 ppm	0.0004 ppm	0.0006 ppm	0.0012 ppm	-0.0036 ppm	-0.0002 ppm
Concentration per Run	0.0001 ppm	0.0002 ppm	0.0002 ppm	0.0006 ppm	0.0013 ppm	-0.0047 ppm	0.0000 ppm
Recovery Percentage	2.059 %	2.393 %	3.073 %	6.071 %	2.310 %	-0.082 %	-2.509 %
Concentration RSD	94.1 %	127.5 %	38.5 %	3.7 %	17.3 %	178.5 %	126.1 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	-0.0007 ppm	0.0001 ppm	0.0088 ppm	0.0056 ppm	0.0006 ppm	0.0010 ppm	0.0003 ppm
Concentration per Run	-0.0003 ppm	0.0001 ppm	0.0087 ppm	0.0070 ppm	0.0001 ppm	0.0009 ppm	-0.0011 ppm
Concentration per Run	0.0004 ppm	0.0001 ppm	0.0088 ppm	0.0057 ppm	0.0009 ppm	0.0009 ppm	0.0010 ppm
Concentration per Run	-0.0021 ppm	0.0000 ppm	0.0090 ppm	0.0042 ppm	0.0010 ppm	0.0012 ppm	0.0009 ppm
Recovery Percentage	-0.676 %	0.528 %	17.650 %	0.281 %	2.576 %	10.014 %	0.524 %
Concentration RSD	193.7 %	21.4 %	1.6 %	25.6 %	80.1 %	18.1 %	456.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0121 ppm	0.0086 ppm	0.0007 ppm	0.0001 ppm	0.0004 ppm	-0.0003 ppm	0.0001 ppm
Concentration per Run	0.0147 ppm	0.0082 ppm	0.0006 ppm	0.0001 ppm	0.0003 ppm	-0.0002 ppm	0.0000 ppm
Concentration per Run	0.0102 ppm	0.0093 ppm	0.0011 ppm	0.0001 ppm	0.0005 ppm	-0.0001 ppm	0.0001 ppm
Concentration per Run	0.0113 ppm	0.0082 ppm	0.0005 ppm	0.0001 ppm	0.0005 ppm	-0.0005 ppm	0.0001 ppm
Recovery Percentage	120.553 %	1.713 %	1.429 %	1.050 %	4.169 %	-1.500 %	0.652 %
Concentration RSD	19.3 %	7.7 %	42.7 %	31.7 %	32.8 %	73.6 %	64.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0003 ppm	95.1446 %	101.6375 %	95.9251 %	94.1430 %	102.3706 %	95.9253 %
Concentration per Run	-0.0005 ppm	94.3424 %	101.6311 %	96.1282 %	93.7382 %	102.7764 %	96.4672 %
Concentration per Run	-0.0003 ppm	95.2692 %	101.5322 %	95.8626 %	94.1071 %	100.3470 %	96.0132 %
Concentration per Run	-0.0002 ppm	95.8223 %	101.7493 %	95.7844 %	94.5838 %	103.9885 %	95.2954 %
Recovery Percentage	-6.798 %						
Concentration RSD	37.2 %	0.8 %	0.1 %	0.2 %	0.5 %	1.8 %	0.6 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: WG2084297-1 WG2084297
 Analysis started at: 6/27/2025 1:47:55 PM
 Rack: 1
 Vial: 32
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0002 ppm	0.0059 ppm	0.0006 ppm	-0.0003 ppm	0.0001 ppm	0.0000 ppm	0.0116 ppm
Concentration per Run	0.0000 ppm	0.0068 ppm	0.0005 ppm	-0.0002 ppm	0.0002 ppm	0.0000 ppm	0.0146 ppm
Concentration per Run	0.0004 ppm	0.0069 ppm	0.0009 ppm	-0.0009 ppm	0.0001 ppm	0.0000 ppm	0.0102 ppm
Concentration per Run	0.0001 ppm	0.0041 ppm	0.0002 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0100 ppm
Recovery Percentage	3.951 %	5.935 %	11.188 %	-1.124 %	1.227 %	0.452 %	11.609 %
Concentration RSD	111.2 %	26.9 %	61.1 %	138.4 %	41.8 %	47.8 %	22.6 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0004 ppm	-0.0004 ppm	0.0114 ppm	0.0584 ppm	0.0002 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0005 ppm	-0.0005 ppm	0.0116 ppm	0.0564 ppm	0.0004 ppm
Concentration per Run	0.0001 ppm	0.0001 ppm	0.0003 ppm	-0.0003 ppm	0.0115 ppm	0.0578 ppm	0.0006 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0004 ppm	-0.0003 ppm	0.0111 ppm	0.0611 ppm	-0.0004 ppm
Recovery Percentage	0.948 %	0.090 %	4.234 %	-3.767 %	22.787 %	2.337 %	2.179 %
Concentration RSD	139.5 %	983.8 %	22.6 %	38.6 %	2.1 %	4.1 %	245.7 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0047 ppm	0.0005 ppm	0.0022 ppm	0.0171 ppm	0.0001 ppm	0.0001 ppm	0.0006 ppm
Concentration per Run	0.0040 ppm	0.0005 ppm	0.0025 ppm	0.0184 ppm	0.0001 ppm	0.0003 ppm	0.0013 ppm
Concentration per Run	0.0045 ppm	0.0005 ppm	0.0021 ppm	0.0168 ppm	0.0000 ppm	0.0002 ppm	0.0000 ppm
Concentration per Run	0.0055 ppm	0.0005 ppm	0.0022 ppm	0.0163 ppm	0.0001 ppm	-0.0001 ppm	0.0005 ppm
Recovery Percentage	4.665 %	5.064 %	4.474 %	0.857 %	0.362 %	1.384 %	1.203 %
Concentration RSD	17.0 %	6.0 %	9.1 %	6.5 %	83.1 %	144.5 %	110.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0043 ppm	0.0177 ppm	0.0100 ppm	0.0000 ppm	0.0005 ppm	-0.0002 ppm	-0.0001 ppm
Concentration per Run	0.0037 ppm	0.0170 ppm	0.0099 ppm	0.0001 ppm	0.0005 ppm	0.0002 ppm	0.0000 ppm
Concentration per Run	0.0051 ppm	0.0184 ppm	0.0105 ppm	0.0000 ppm	0.0003 ppm	-0.0003 ppm	-0.0002 ppm
Concentration per Run	0.0043 ppm	0.0178 ppm	0.0095 ppm	0.0000 ppm	0.0006 ppm	-0.0006 ppm	-0.0001 ppm
Recovery Percentage	43.421 %	3.548 %	19.971 %	0.308 %	4.551 %	-1.229 %	-1.172 %
Concentration RSD	16.0 %	3.8 %	5.1 %	87.5 %	26.3 %	153.8 %	92.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0008 ppm	106.7727 %	103.4828 %	102.7432 %	102.7419 %	102.8891 %	101.5426 %
Concentration per Run	0.0006 ppm	106.8118 %	103.6227 %	102.5343 %	102.5305 %	103.2274 %	101.4472 %
Concentration per Run	0.0010 ppm	106.3148 %	103.6394 %	102.7971 %	101.9865 %	102.7941 %	101.6390 %
Concentration per Run	0.0007 ppm	107.1914 %	103.1863 %	102.8981 %	103.7087 %	102.6457 %	101.5417 %
Recovery Percentage	15.596 %						
Concentration RSD	22.6 %	0.4 %	0.2 %	0.2 %	0.9 %	0.3 %	0.1 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: WG2084297-2D2 WG2084297
 Analysis started at: 6/27/2025 1:51:33 PM
 Rack: 1
 Vial: 33
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.3522 ppm	19.0644 ppm	0.8616 ppm	0.8075 ppm	0.9248 ppm	0.6697 ppm	16.7446 ppm
Concentration per Run	0.3521 ppm	19.0247 ppm	0.8656 ppm	0.8136 ppm	0.9253 ppm	0.6709 ppm	16.7353 ppm
Concentration per Run	0.3520 ppm	19.1014 ppm	0.8549 ppm	0.8047 ppm	0.9307 ppm	0.6679 ppm	16.6196 ppm
Concentration per Run	0.3524 ppm	19.0671 ppm	0.8644 ppm	0.8040 ppm	0.9184 ppm	0.6703 ppm	16.8790 ppm
Concentration RSD	0.1 %	0.2 %	0.7 %	0.7 %	0.7 %	0.2 %	0.8 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.5555 ppm	1.0646 ppm	0.6964 ppm	0.4127 ppm	20.8102 ppm	6.7870 ppm	0.4245 ppm
Concentration per Run	0.5534 ppm	1.0654 ppm	0.6951 ppm	0.4134 ppm	20.7454 ppm	6.8182 ppm	0.4260 ppm
Concentration per Run	0.5597 ppm	1.0648 ppm	0.6997 ppm	0.4116 ppm	20.7906 ppm	6.8099 ppm	0.4262 ppm
Concentration per Run	0.5535 ppm	1.0636 ppm	0.6944 ppm	0.4132 ppm	20.8946 ppm	6.7329 ppm	0.4211 ppm
Concentration RSD	0.7 %	0.1 %	0.4 %	0.2 %	0.4 %	0.7 %	0.7 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	6.8994 ppm	1.8101 ppm	0.6617 ppm	8.9663 ppm	0.6808 ppm	0.6018 ppm	0.5847 ppm
Concentration per Run	6.9363 ppm	1.8079 ppm	0.6605 ppm	8.9393 ppm	0.6800 ppm	0.6009 ppm	0.5817 ppm
Concentration per Run	6.8735 ppm	1.8058 ppm	0.6643 ppm	9.0315 ppm	0.6838 ppm	0.5988 ppm	0.5869 ppm
Concentration per Run	6.8886 ppm	1.8166 ppm	0.6603 ppm	8.9281 ppm	0.6788 ppm	0.6056 ppm	0.5855 ppm
Concentration RSD	0.5 %	0.3 %	0.3 %	0.6 %	0.4 %	0.6 %	0.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.4318 ppm	19.6169 [SIC 200]	0.4275 ppm	0.8681 ppm	1.6606 ppm	0.8853 ppm	0.6981 ppm
Concentration per Run	0.4279 ppm	19.4169 ppm	0.4269 ppm	0.8678 ppm	1.6606 ppm	0.8883 ppm	0.7004 ppm
Concentration per Run	0.4305 ppm	20.0211 ppm	0.4298 ppm	0.8724 ppm	1.6710 ppm	0.8822 ppm	0.6959 ppm
Concentration per Run	0.4370 ppm	19.4128 ppm	0.4258 ppm	0.8640 ppm	1.6501 ppm	0.8855 ppm	0.6981 ppm
Concentration RSD	1.1 %	1.8 %	0.5 %	0.5 %	0.6 %	0.3 %	0.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	1.3132 ppm	96.5295 %	101.2018 %	92.7928 %	97.3078 %	105.8591 %	99.1115 %
Concentration per Run	1.3159 ppm	96.2912 %	101.8045 %	92.9748 %	97.2431 %	106.2762 %	98.8202 %
Concentration per Run	1.3187 ppm	96.6580 %	100.8751 %	92.7430 %	97.4953 %	105.7732 %	98.3217 %
Concentration per Run	1.3050 ppm	96.6395 %	100.9258 %	92.6606 %	97.1849 %	105.5280 %	100.1925 %
Concentration RSD	0.6 %	0.2 %	0.5 %	0.2 %	0.2 %	0.4 %	1.0 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: WG2084297-3D2 WG2084297
 Analysis started at: 6/27/2025 1:54:57 PM
 Rack: 1
 Vial: 34
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.3403 ppm	17.9763 ppm	0.8404 ppm	0.7862 ppm	0.9348 ppm	0.6460 ppm	16.6100 ppm
Concentration per Run	0.3412 ppm	17.9315 ppm	0.8439 ppm	0.7906 ppm	0.9355 ppm	0.6487 ppm	16.7745 ppm
Concentration per Run	0.3397 ppm	17.9888 ppm	0.8392 ppm	0.7855 ppm	0.9333 ppm	0.6431 ppm	16.4706 ppm
Concentration per Run	0.3398 ppm	18.0088 ppm	0.8383 ppm	0.7826 ppm	0.9355 ppm	0.6461 ppm	16.5850 ppm
Concentration RSD	0.2 %	0.2 %	0.4 %	0.5 %	0.1 %	0.4 %	0.9 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.4932 ppm	1.0286 ppm	0.6828 ppm	0.4036 ppm	20.4621 ppm	6.4368 ppm	0.4078 ppm
Concentration per Run	0.4930 ppm	1.0300 ppm	0.6843 ppm	0.4051 ppm	20.5650 ppm	6.5161 ppm	0.4109 ppm
Concentration per Run	0.4935 ppm	1.0284 ppm	0.6832 ppm	0.4034 ppm	20.4360 ppm	6.4169 ppm	0.4038 ppm
Concentration per Run	0.4931 ppm	1.0274 ppm	0.6811 ppm	0.4023 ppm	20.3852 ppm	6.3775 ppm	0.4087 ppm
Concentration RSD	0.1 %	0.1 %	0.2 %	0.4 %	0.5 %	1.1 %	0.9 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	6.6163 ppm	1.7320 ppm	0.6527 ppm	8.4629 ppm	0.6584 ppm	0.5852 ppm	0.5409 ppm
Concentration per Run	6.6870 ppm	1.7405 ppm	0.6511 ppm	8.4371 ppm	0.6609 ppm	0.5866 ppm	0.5427 ppm
Concentration per Run	6.5801 ppm	1.7246 ppm	0.6531 ppm	8.4445 ppm	0.6599 ppm	0.5839 ppm	0.5392 ppm
Concentration per Run	6.5817 ppm	1.7310 ppm	0.6538 ppm	8.5070 ppm	0.6544 ppm	0.5850 ppm	0.5406 ppm
Concentration RSD	0.9 %	0.5 %	0.2 %	0.5 %	0.5 %	0.2 %	0.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.4368 ppm	18.3324 [SIC 200]	0.4147 ppm	0.8799 ppm	1.6109 ppm	0.7599 ppm	0.6848 ppm
Concentration per Run	0.4398 ppm	18.3861 ppm	0.4126 ppm	0.8828 ppm	1.6425 ppm	0.7646 ppm	0.6878 ppm
Concentration per Run	0.4337 ppm	18.4055 ppm	0.4166 ppm	0.8782 ppm	1.6047 ppm	0.7569 ppm	0.6839 ppm
Concentration per Run	0.4368 ppm	18.2056 ppm	0.4149 ppm	0.8787 ppm	1.5854 ppm	0.7583 ppm	0.6826 ppm
Concentration RSD	0.7 %	0.6 %	0.5 %	0.3 %	1.8 %	0.5 %	0.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	1.2853 ppm	98.2538 %	103.4340 %	94.4531 %	99.5038 %	107.8876 %	100.3117 %
Concentration per Run	1.2885 ppm	98.0754 %	102.5872 %	94.4528 %	99.3871 %	107.8244 %	100.3679 %
Concentration per Run	1.2878 ppm	97.9953 %	104.3035 %	94.4922 %	99.1805 %	107.7785 %	100.2868 %
Concentration per Run	1.2794 ppm	98.6906 %	103.4114 %	94.4144 %	99.9439 %	108.0598 %	100.2802 %
Concentration RSD	0.4 %	0.4 %	0.8 %	0.0 %	0.4 %	0.1 %	0.0 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: L2538016-01D2 WG2084297
 Analysis started at: 6/27/2025 1:58:22 PM
 Rack: 1
 Vial: 35
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0011 ppm	47.3223 ppm	0.0152 ppm	0.0206 ppm	0.2765 ppm	0.0021 ppm	6.1240 ppm
Concentration per Run	0.0011 ppm	47.4500 ppm	0.0152 ppm	0.0196 ppm	0.2750 ppm	0.0021 ppm	6.0966 ppm
Concentration per Run	0.0012 ppm	47.3771 ppm	0.0154 ppm	0.0207 ppm	0.2765 ppm	0.0022 ppm	6.1199 ppm
Concentration per Run	0.0012 ppm	47.1399 ppm	0.0148 ppm	0.0214 ppm	0.2780 ppm	0.0021 ppm	6.1555 ppm
Concentration RSD	5.6 %	0.3 %	2.0 %	4.3 %	0.5 %	2.1 %	0.5 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0001 ppm	0.0267 ppm	0.0664 ppm	0.1235 ppm	76.8127 ppm	6.2641 ppm	0.0469 ppm
Concentration per Run	0.0001 ppm	0.0268 ppm	0.0663 ppm	0.1232 ppm	76.5280 ppm	6.2669 ppm	0.0479 ppm
Concentration per Run	0.0000 ppm	0.0262 ppm	0.0653 ppm	0.1233 ppm	77.4682 ppm	6.2580 ppm	0.0464 ppm
Concentration per Run	-0.0002 ppm	0.0270 ppm	0.0676 ppm	0.1240 ppm	76.4418 ppm	6.2675 ppm	0.0463 ppm
Concentration RSD	220.4 %	1.4 %	1.7 %	0.3 %	0.7 %	0.1 %	1.9 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	13.3507 ppm	1.7527 ppm	0.0156 ppm	1.3071 ppm	0.0443 ppm	0.0503 ppm	0.0038 ppm
Concentration per Run	13.3363 ppm	1.7444 ppm	0.0154 ppm	1.3159 ppm	0.0448 ppm	0.0502 ppm	0.0052 ppm
Concentration per Run	13.1582 ppm	1.7634 ppm	0.0156 ppm	1.3011 ppm	0.0431 ppm	0.0499 ppm	0.0041 ppm
Concentration per Run	13.5576 ppm	1.7504 ppm	0.0157 ppm	1.3042 ppm	0.0451 ppm	0.0508 ppm	0.0023 ppm
Concentration RSD	1.5 %	0.6 %	1.0 %	0.6 %	2.5 %	0.9 %	38.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0105 ppm	20.7668 [SIC 200]	0.0065 ppm	0.0531 ppm	2.8358 ppm	0.0006 ppm	0.2080 ppm
Concentration per Run	0.0117 ppm	20.4193 ppm	0.0071 ppm	0.0532 ppm	2.8335 ppm	0.0015 ppm	0.2079 ppm
Concentration per Run	0.0113 ppm	20.7990 ppm	0.0055 ppm	0.0531 ppm	2.8232 ppm	0.0000 ppm	0.2073 ppm
Concentration per Run	0.0085 ppm	21.0822 ppm	0.0068 ppm	0.0530 ppm	2.8507 ppm	0.0004 ppm	0.2089 ppm
Concentration RSD	16.6 %	1.6 %	13.0 %	0.2 %	0.5 %	114.8 %	0.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2490 ppm	102.9700 %	107.6936 %	96.9765 %	102.5075 %	119.5706 %	105.0496 %
Concentration per Run	0.2476 ppm	103.0720 %	108.4137 %	97.2187 %	102.5789 %	120.9241 %	105.3442 %
Concentration per Run	0.2479 ppm	103.6166 %	106.8051 %	96.7507 %	102.8524 %	120.2119 %	104.6145 %
Concentration per Run	0.2515 ppm	102.2214 %	107.8619 %	96.9601 %	102.0911 %	117.5758 %	105.1902 %
Concentration RSD	0.9 %	0.7 %	0.8 %	0.2 %	0.4 %	1.5 %	0.4 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: L2538016-02D2 WG2084297
 Analysis started at: 6/27/2025 2:01:47 PM
 Rack: 1
 Vial: 36
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0009 ppm	48.3750 ppm	0.0131 ppm	0.0149 ppm	0.2662 ppm	0.0024 ppm	16.0083 ppm
Concentration per Run	0.0009 ppm	48.5955 ppm	0.0131 ppm	0.0149 ppm	0.2680 ppm	0.0025 ppm	15.8837 ppm
Concentration per Run	0.0008 ppm	48.2492 ppm	0.0116 ppm	0.0145 ppm	0.2705 ppm	0.0022 ppm	16.1988 ppm
Concentration per Run	0.0010 ppm	48.2802 ppm	0.0146 ppm	0.0152 ppm	0.2600 ppm	0.0024 ppm	15.9425 ppm
Concentration RSD	13.0 %	0.4 %	11.5 %	2.7 %	2.1 %	4.5 %	1.0 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0002 ppm	0.0301 ppm	0.0649 ppm	0.1249 ppm	66.5928 ppm	7.5047 ppm	0.0488 ppm
Concentration per Run	-0.0002 ppm	0.0302 ppm	0.0643 ppm	0.1251 ppm	67.4045 ppm	7.5541 ppm	0.0491 ppm
Concentration per Run	-0.0002 ppm	0.0301 ppm	0.0651 ppm	0.1252 ppm	65.8994 ppm	7.4901 ppm	0.0506 ppm
Concentration per Run	-0.0002 ppm	0.0298 ppm	0.0653 ppm	0.1245 ppm	66.4746 ppm	7.4698 ppm	0.0466 ppm
Concentration RSD	4.0 %	0.7 %	0.8 %	0.3 %	1.1 %	0.6 %	4.2 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	14.8157 ppm	1.9460 ppm	0.0050 ppm	1.4515 ppm	0.0377 ppm	0.1042 ppm	0.0020 ppm
Concentration per Run	14.6079 ppm	1.9548 ppm	0.0045 ppm	1.4791 ppm	0.0371 ppm	0.1030 ppm	0.0040 ppm
Concentration per Run	15.0942 ppm	1.9429 ppm	0.0052 ppm	1.4343 ppm	0.0379 ppm	0.1042 ppm	0.0009 ppm
Concentration per Run	14.7450 ppm	1.9405 ppm	0.0053 ppm	1.4409 ppm	0.0382 ppm	0.1054 ppm	0.0010 ppm
Concentration RSD	1.7 %	0.4 %	8.1 %	1.7 %	1.5 %	1.2 %	88.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0033 ppm	18.9779 [SIC 200]	0.0103 ppm	0.0792 ppm	2.0900 ppm	0.0005 ppm	0.1654 ppm
Concentration per Run	0.0025 ppm	18.7924 ppm	0.0104 ppm	0.0795 ppm	2.0643 ppm	0.0000 ppm	0.1646 ppm
Concentration per Run	0.0034 ppm	18.9505 ppm	0.0110 ppm	0.0798 ppm	2.1201 ppm	-0.0002 ppm	0.1664 ppm
Concentration per Run	0.0038 ppm	19.1908 ppm	0.0095 ppm	0.0782 ppm	2.0856 ppm	0.0018 ppm	0.1650 ppm
Concentration RSD	20.1 %	1.1 %	7.6 %	1.0 %	1.3 %	209.3 %	0.5 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2067 ppm	102.1493 %	106.4948 %	96.5142 %	113.4946 %	128.9272 %	115.9913 %
Concentration per Run	0.2056 ppm	102.3248 %	105.6987 %	96.6915 %	113.5299 %	131.4240 %	116.1030 %
Concentration per Run	0.2076 ppm	101.4638 %	106.9571 %	96.6165 %	113.1397 %	124.9029 %	116.1043 %
Concentration per Run	0.2069 ppm	102.6593 %	106.8287 %	96.2348 %	113.8142 %	130.4547 %	115.7664 %
Concentration RSD	0.5 %	0.6 %	0.7 %	0.3 %	0.3 %	2.7 %	0.2 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: L2538330-01D2 WG2084297
 Analysis started at: 6/27/2025 2:05:12 PM
 Rack: 1
 Vial: 37
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0024 ppm	87.0970 ppm	0.0593 ppm	0.0150 ppm	0.3497 ppm	0.0039 ppm	14.5443 ppm
Concentration per Run	0.0021 ppm	86.9431 ppm	0.0607 ppm	0.0154 ppm	0.3490 ppm	0.0039 ppm	14.5918 ppm
Concentration per Run	0.0026 ppm	86.9740 ppm	0.0585 ppm	0.0149 ppm	0.3506 ppm	0.0040 ppm	14.5662 ppm
Concentration per Run	0.0025 ppm	87.3738 ppm	0.0586 ppm	0.0146 ppm	0.3495 ppm	0.0039 ppm	14.4749 ppm
Concentration RSD	10.2 %	0.3 %	2.1 %	2.9 %	0.2 %	0.9 %	0.4 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0059 ppm	0.0506 ppm	0.1008 ppm	0.5518 ppm	129.5461 ppm	4.2448 ppm	0.0735 ppm
Concentration per Run	0.0059 ppm	0.0502 ppm	0.1007 ppm	0.5512 ppm	129.0695 ppm	4.2130 ppm	0.0740 ppm
Concentration per Run	0.0059 ppm	0.0504 ppm	0.1013 ppm	0.5509 ppm	130.4228 ppm	4.2714 ppm	0.0731 ppm
Concentration per Run	0.0061 ppm	0.0512 ppm	0.1003 ppm	0.5533 ppm	129.1459 ppm	4.2500 ppm	0.0733 ppm
Concentration RSD	2.0 %	1.1 %	0.5 %	0.2 %	0.6 %	0.7 %	0.6 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	21.1063 ppm	2.4016 ppm	0.0098 ppm	1.7071 ppm	0.1194 ppm	0.5712 ppm	0.0082 ppm
Concentration per Run	21.2421 ppm	2.4031 ppm	0.0096 ppm	1.6895 ppm	0.1191 ppm	0.5727 ppm	0.0089 ppm
Concentration per Run	21.0590 ppm	2.4031 ppm	0.0100 ppm	1.6842 ppm	0.1192 ppm	0.5717 ppm	0.0053 ppm
Concentration per Run	21.0179 ppm	2.3986 ppm	0.0100 ppm	1.7476 ppm	0.1199 ppm	0.5692 ppm	0.0106 ppm
Concentration RSD	0.6 %	0.1 %	2.3 %	2.1 %	0.4 %	0.3 %	32.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0069 ppm	19.1074 [SIC 200]	0.0219 ppm	0.2014 ppm	3.6966 ppm	0.0024 ppm	0.2046 ppm
Concentration per Run	0.0065 ppm	19.3464 ppm	0.0219 ppm	0.2010 ppm	3.7418 ppm	0.0025 ppm	0.2051 ppm
Concentration per Run	0.0062 ppm	18.8721 ppm	0.0227 ppm	0.2017 ppm	3.6792 ppm	0.0028 ppm	0.2040 ppm
Concentration per Run	0.0081 ppm	19.1039 ppm	0.0212 ppm	0.2015 ppm	3.6687 ppm	0.0018 ppm	0.2045 ppm
Concentration RSD	14.5 %	1.2 %	3.4 %	0.2 %	1.1 %	21.8 %	0.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.9545 ppm	98.4509 %	103.9327 %	89.8105 %	115.2073 %	125.6923 %	116.1659 %
Concentration per Run	0.9576 ppm	98.2132 %	104.4855 %	89.8103 %	114.7070 %	125.8275 %	116.0798 %
Concentration per Run	0.9570 ppm	98.2969 %	103.5445 %	89.6549 %	114.6594 %	124.9196 %	115.9903 %
Concentration per Run	0.9487 ppm	98.8427 %	103.7683 %	89.9663 %	116.2556 %	126.3299 %	116.4277 %
Concentration RSD	0.5 %	0.3 %	0.5 %	0.2 %	0.8 %	0.6 %	0.2 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: L2538439-01D2 WG2084297
 Analysis started at: 6/27/2025 2:08:35 PM
 Rack: 1
 Vial: 38
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0042 ppm	42.2388 ppm	0.1622 ppm	0.0904 ppm	1.1894 ppm	0.0069 ppm	93.4881 ppm
Concentration per Run	0.0044 ppm	42.3341 ppm	0.1633 ppm	0.0900 ppm	1.1934 ppm	0.0069 ppm	94.0114 ppm
Concentration per Run	0.0041 ppm	42.2102 ppm	0.1618 ppm	0.0908 ppm	1.1893 ppm	0.0068 ppm	93.7379 ppm
Concentration per Run	0.0042 ppm	42.1721 ppm	0.1614 ppm	0.0905 ppm	1.1854 ppm	0.0070 ppm	92.7149 ppm
Concentration RSD	3.9 %	0.2 %	0.6 %	0.5 %	0.3 %	1.4 %	0.7 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0080 ppm	0.0521 ppm	0.0951 ppm	0.7153 ppm	80.6266 ppm	7.5997 ppm	0.1183 ppm
Concentration per Run	0.0081 ppm	0.0519 ppm	0.0953 ppm	0.7167 ppm	81.1156 ppm	7.6510 ppm	0.1187 ppm
Concentration per Run	0.0078 ppm	0.0519 ppm	0.0959 ppm	0.7132 ppm	80.7326 ppm	7.6009 ppm	0.1183 ppm
Concentration per Run	0.0080 ppm	0.0524 ppm	0.0942 ppm	0.7160 ppm	80.0315 ppm	7.5473 ppm	0.1178 ppm
Concentration RSD	1.6 %	0.5 %	0.9 %	0.3 %	0.7 %	0.7 %	0.4 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	17.2567 ppm	1.1946 ppm	0.0165 ppm	16.1155 ppm	0.1192 ppm	2.3640 ppm	0.0084 ppm
Concentration per Run	17.4820 ppm	1.1980 ppm	0.0168 ppm	16.0438 ppm	0.1202 ppm	2.3772 ppm	0.0090 ppm
Concentration per Run	17.1099 ppm	1.1977 ppm	0.0167 ppm	16.1533 ppm	0.1189 ppm	2.3589 ppm	0.0101 ppm
Concentration per Run	17.1780 ppm	1.1880 ppm	0.0160 ppm	16.1495 ppm	0.1185 ppm	2.3558 ppm	0.0062 ppm
Concentration RSD	1.1 %	0.5 %	2.5 %	0.4 %	0.8 %	0.5 %	23.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0113 ppm	15.7486 [SIC 200]	0.0557 ppm	1.3782 ppm	2.0778 ppm	0.0016 ppm	0.2075 ppm
Concentration per Run	0.0139 ppm	15.6565 ppm	0.0567 ppm	1.3822 ppm	2.1159 ppm	0.0012 ppm	0.2088 ppm
Concentration per Run	0.0088 ppm	15.6834 ppm	0.0548 ppm	1.3775 ppm	2.0184 ppm	0.0012 ppm	0.2065 ppm
Concentration per Run	0.0113 ppm	15.9059 ppm	0.0555 ppm	1.3750 ppm	2.0990 ppm	0.0024 ppm	0.2071 ppm
Concentration RSD	22.6 %	0.9 %	1.7 %	0.3 %	2.5 %	42.1 %	0.6 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	1.9942 ppm	97.1426 %	103.1541 %	90.8540 %	107.5928 %	118.1396 %	109.0065 %
Concentration per Run	2.0222 ppm	96.7321 %	103.3255 %	90.9659 %	107.4290 %	118.1523 %	109.2559 %
Concentration per Run	1.9861 ppm	97.5456 %	102.7691 %	90.3683 %	107.9017 %	117.7664 %	108.5545 %
Concentration per Run	1.9743 ppm	97.1502 %	103.3677 %	91.2277 %	107.4477 %	118.5003 %	109.2092 %
Concentration RSD	1.3 %	0.4 %	0.3 %	0.5 %	0.2 %	0.3 %	0.4 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: CCV
 Analysis started at: 6/27/2025 2:13:59 PM
 Rack: 0
 Vial: 3
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.5158 ppm	0.4782 ppm	0.4905 ppm	0.5099 ppm	0.5051 ppm	0.5017 ppm	0.4796 ppm
Concentration per Run	0.5167 ppm	0.4779 ppm	0.4888 ppm	0.5145 ppm	0.5073 ppm	0.5013 ppm	0.4702 ppm
Concentration per Run	0.5173 ppm	0.4785 ppm	0.4905 ppm	0.5096 ppm	0.5049 ppm	0.5014 ppm	0.4865 ppm
Concentration per Run	0.5133 ppm	0.4782 ppm	0.4923 ppm	0.5056 ppm	0.5031 ppm	0.5024 ppm	0.4821 ppm
Recovery Percentage	103.159 %	95.637 %	98.109 %	101.979 %	101.021 %	100.339 %	95.922 %
Concentration RSD	0.4 %	0.1 %	0.4 %	0.9 %	0.4 %	0.1 %	1.8 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.5021 ppm	0.5093 ppm	0.5171 ppm	0.5170 ppm	0.5073 ppm	5.2210 ppm	0.5246 ppm
Concentration per Run	0.5001 ppm	0.5098 ppm	0.5199 ppm	0.5190 ppm	0.5102 ppm	5.2572 ppm	0.5172 ppm
Concentration per Run	0.5066 ppm	0.5116 ppm	0.5192 ppm	0.5169 ppm	0.5052 ppm	5.1880 ppm	0.5281 ppm
Concentration per Run	0.4997 ppm	0.5063 ppm	0.5122 ppm	0.5153 ppm	0.5064 ppm	5.2177 ppm	0.5285 ppm
Recovery Percentage	100.426 %	101.850 %	103.425 %	103.406 %	101.452 %	104.420 %	104.922 %
Concentration RSD	0.8 %	0.5 %	0.8 %	0.4 %	0.5 %	0.7 %	1.2 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.5086 ppm	0.4970 ppm	0.4971 ppm	10.3839 ppm	0.5170 ppm	0.4866 ppm	0.5148 ppm
Concentration per Run	0.5140 ppm	0.4932 ppm	0.4943 ppm	10.4556 ppm	0.5184 ppm	0.4844 ppm	0.5135 ppm
Concentration per Run	0.5090 ppm	0.4982 ppm	0.4995 ppm	10.2951 ppm	0.5194 ppm	0.4892 ppm	0.5201 ppm
Concentration per Run	0.5026 ppm	0.4995 ppm	0.4974 ppm	10.4011 ppm	0.5133 ppm	0.4863 ppm	0.5107 ppm
Recovery Percentage	101.712 %	99.393 %	99.418 %	103.839 %	103.406 %	97.330 %	102.957 %
Concentration RSD	1.1 %	0.7 %	0.5 %	0.8 %	0.6 %	0.5 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.4985 ppm	5.7676 ppm	0.5054 ppm	0.5116 ppm	0.5145 ppm	0.4805 ppm	0.5184 ppm
Concentration per Run	0.4923 ppm	5.7678 ppm	0.5082 ppm	0.5158 ppm	0.5188 ppm	0.4772 ppm	0.5205 ppm
Concentration per Run	0.5020 ppm	5.7822 ppm	0.5040 ppm	0.5086 ppm	0.5148 ppm	0.4822 ppm	0.5198 ppm
Concentration per Run	0.5012 ppm	5.7529 ppm	0.5040 ppm	0.5106 ppm	0.5098 ppm	0.4822 ppm	0.5150 ppm
Recovery Percentage	99.700 %	109.860 %	101.076 %	102.329 %	102.890 %	96.103 %	103.685 %
Concentration RSD	1.1 %	0.3 %	0.5 %	0.7 %	0.9 %	0.6 %	0.6 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5109 ppm	97.1140 %	102.2899 %	95.9034 %	93.2860 %	101.3509 %	94.2757 %
Concentration per Run	0.5112 ppm	96.8688 %	102.9512 %	96.4286 %	93.3958 %	102.8831 %	94.6335 %
Concentration per Run	0.5121 ppm	96.9570 %	102.4269 %	95.7355 %	93.0822 %	100.6482 %	94.1493 %
Concentration per Run	0.5093 ppm	97.5162 %	101.4915 %	95.5460 %	93.3801 %	100.5215 %	94.0442 %
Recovery Percentage	102.171 %						
Concentration RSD	0.3 %	0.4 %	0.7 %	0.5 %	0.2 %	1.3 %	0.3 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: CCB
 Analysis started at: 6/27/2025 2:17:26 PM
 Rack: 0
 Vial: 4
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0003 ppm	0.0005 ppm	0.0024 ppm	0.0013 ppm	0.0000 ppm	0.0001 ppm	-0.0009 ppm
Concentration per Run	0.0002 ppm	-0.0016 ppm	0.0027 ppm	0.0016 ppm	0.0000 ppm	0.0001 ppm	-0.0020 ppm
Concentration per Run	0.0005 ppm	0.0019 ppm	0.0013 ppm	0.0017 ppm	0.0000 ppm	0.0001 ppm	0.0010 ppm
Concentration per Run	0.0002 ppm	0.0013 ppm	0.0030 ppm	0.0006 ppm	0.0000 ppm	0.0001 ppm	-0.0017 ppm
Recovery Percentage	6.334 %	0.529 %	47.444 %	4.290 %	0.222 %	1.817 %	-0.883 %
Concentration RSD	50.8 %	355.9 %	38.4 %	49.5 %	182.5 %	8.4 %	187.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0007 ppm	0.0038 ppm	0.0025 ppm	-0.0006 ppm
Concentration per Run	0.0000 ppm	0.0002 ppm	0.0003 ppm	0.0006 ppm	0.0034 ppm	0.0119 ppm	-0.0001 ppm
Concentration per Run	0.0001 ppm	-0.0002 ppm	0.0000 ppm	0.0007 ppm	0.0037 ppm	0.0013 ppm	-0.0011 ppm
Concentration per Run	0.0001 ppm	0.0002 ppm	-0.0002 ppm	0.0006 ppm	0.0042 ppm	-0.0058 ppm	-0.0005 ppm
Recovery Percentage	1.926 %	0.729 %	0.495 %	6.603 %	7.549 %	0.099 %	-5.771 %
Concentration RSD	63.3 %	318.4 %	546.1 %	7.7 %	10.1 %	358.6 %	90.0 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	-0.0021 ppm	0.0001 ppm	0.0084 ppm	0.0057 ppm	0.0000 ppm	0.0007 ppm	0.0001 ppm
Concentration per Run	-0.0024 ppm	0.0001 ppm	0.0089 ppm	0.0067 ppm	-0.0003 ppm	0.0008 ppm	0.0000 ppm
Concentration per Run	-0.0007 ppm	0.0000 ppm	0.0082 ppm	0.0054 ppm	0.0002 ppm	0.0009 ppm	0.0008 ppm
Concentration per Run	-0.0034 ppm	0.0002 ppm	0.0081 ppm	0.0050 ppm	0.0002 ppm	0.0003 ppm	-0.0005 ppm
Recovery Percentage	-2.139 %	1.259 %	16.810 %	0.285 %	0.189 %	6.652 %	0.182 %
Concentration RSD	62.3 %	78.4 %	5.0 %	15.1 %	609.3 %	46.9 %	705.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0127 ppm	0.0200 ppm	0.0005 ppm	0.0001 ppm	0.0003 ppm	-0.0001 ppm	0.0000 ppm
Concentration per Run	0.0142 ppm	0.0204 ppm	0.0005 ppm	0.0001 ppm	0.0001 ppm	0.0004 ppm	-0.0003 ppm
Concentration per Run	0.0120 ppm	0.0187 ppm	-0.0002 ppm	0.0001 ppm	0.0003 ppm	-0.0009 ppm	0.0000 ppm
Concentration per Run	0.0119 ppm	0.0209 ppm	0.0010 ppm	0.0000 ppm	0.0005 ppm	0.0001 ppm	0.0003 ppm
Recovery Percentage	127.064 %	4.001 %	0.931 %	0.590 %	2.834 %	-0.709 %	0.105 %
Concentration RSD	9.9 %	5.8 %	130.3 %	35.3 %	83.9 %	500.8 %	3,011.9 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0004 ppm	95.4252 %	101.6982 %	94.7781 %	94.1250 %	102.6270 %	95.3732 %
Concentration per Run	-0.0004 ppm	95.4082 %	101.6558 %	94.5892 %	94.8477 %	102.8059 %	95.3789 %
Concentration per Run	-0.0003 ppm	94.8079 %	101.5654 %	94.7670 %	93.0993 %	101.5188 %	95.5063 %
Concentration per Run	-0.0005 ppm	96.0594 %	101.8734 %	94.9780 %	94.4279 %	103.5563 %	95.2343 %
Recovery Percentage	-8.427 %						
Concentration RSD	25.4 %	0.7 %	0.2 %	0.2 %	1.0 %	1.0 %	0.1 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: WG2084192-2 WG2084192
 Analysis started at: 6/27/2025 2:47:34 PM
 Rack: 1
 Vial: 39
 Comment: Al & Fe rr

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0603 ppm	2.3434 ppm	0.1190 ppm	1.0214 ppm	2.3646 ppm	0.0561 ppm	9.6554 ppm
Concentration per Run	0.0608 ppm	2.3599 ppm	0.1183 ppm	1.0234 ppm	2.3662 ppm	0.0561 ppm	9.6337 ppm
Concentration per Run	0.0602 ppm	2.3370 ppm	0.1204 ppm	1.0240 ppm	2.3738 ppm	0.0563 ppm	9.7014 ppm
Concentration per Run	0.0598 ppm	2.3333 ppm	0.1182 ppm	1.0167 ppm	2.3538 ppm	0.0560 ppm	9.6309 ppm
Concentration RSD	0.8 %	0.6 %	1.0 %	0.4 %	0.4 %	0.3 %	0.4 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0541 ppm	0.5765 ppm	0.2344 ppm	0.2987 ppm	1.1349 ppm	10.6212 ppm	-0.0001 ppm
Concentration per Run	0.0545 ppm	0.5803 ppm	0.2352 ppm	0.2989 ppm	1.1342 ppm	10.6749 ppm	0.0005 ppm
Concentration per Run	0.0541 ppm	0.5758 ppm	0.2340 ppm	0.2986 ppm	1.1387 ppm	10.5948 ppm	-0.0003 ppm
Concentration per Run	0.0536 ppm	0.5733 ppm	0.2339 ppm	0.2985 ppm	1.1319 ppm	10.5938 ppm	-0.0006 ppm
Concentration RSD	0.9 %	0.6 %	0.3 %	0.1 %	0.3 %	0.4 %	445.4 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	10.1545 ppm	0.5586 ppm	0.8989 ppm	11.0892 ppm	0.5944 ppm	0.5159 ppm	0.3576 ppm
Concentration per Run	10.1945 ppm	0.5586 ppm	0.8938 ppm	11.1893 ppm	0.5993 ppm	0.5139 ppm	0.3561 ppm
Concentration per Run	10.1134 ppm	0.5596 ppm	0.8979 ppm	11.0112 ppm	0.5908 ppm	0.5157 ppm	0.3563 ppm
Concentration per Run	10.1556 ppm	0.5576 ppm	0.9051 ppm	11.0672 ppm	0.5932 ppm	0.5180 ppm	0.3604 ppm
Concentration RSD	0.4 %	0.2 %	0.6 %	0.8 %	0.7 %	0.4 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.1100 ppm	0.9772 ppm	0.9766 ppm	1.0147 ppm	1.0324 ppm	0.1172 ppm	0.6011 ppm
Concentration per Run	0.1081 ppm	0.9833 ppm	0.9845 ppm	1.0122 ppm	1.0312 ppm	0.1157 ppm	0.6034 ppm
Concentration per Run	0.1121 ppm	0.9720 ppm	0.9672 ppm	1.0174 ppm	1.0357 ppm	0.1178 ppm	0.5998 ppm
Concentration per Run	0.1099 ppm	0.9762 ppm	0.9781 ppm	1.0145 ppm	1.0302 ppm	0.1180 ppm	0.6001 ppm
Concentration RSD	1.8 %	0.6 %	0.9 %	0.3 %	0.3 %	1.1 %	0.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5885 ppm	97.1197 %	103.1924 %	94.7818 %	94.2790 %	102.1481 %	94.8815 %
Concentration per Run	0.5964 ppm	96.7033 %	103.2310 %	94.6619 %	94.0764 %	102.6644 %	94.7538 %
Concentration per Run	0.5839 ppm	97.2110 %	103.1823 %	95.1004 %	94.4282 %	101.5491 %	95.3048 %
Concentration per Run	0.5852 ppm	97.4447 %	103.1638 %	94.5830 %	94.3323 %	102.2308 %	94.5859 %
Concentration RSD	1.2 %	0.4 %	0.0 %	0.3 %	0.2 %	0.6 %	0.4 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: CCV
 Analysis started at: 6/27/2025 2:51:03 PM
 Rack: 0
 Vial: 3
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.5103 ppm	0.4724 ppm	0.4887 ppm	0.5016 ppm	0.5019 ppm	0.4967 ppm	0.4783 ppm
Concentration per Run	0.5107 ppm	0.4711 ppm	0.4891 ppm	0.5025 ppm	0.5021 ppm	0.4933 ppm	0.4778 ppm
Concentration per Run	0.5108 ppm	0.4706 ppm	0.4892 ppm	0.5043 ppm	0.5044 ppm	0.4977 ppm	0.4739 ppm
Concentration per Run	0.5093 ppm	0.4755 ppm	0.4878 ppm	0.4979 ppm	0.4992 ppm	0.4990 ppm	0.4830 ppm
Recovery Percentage	102.055 %	94.481 %	97.746 %	100.314 %	100.375 %	99.341 %	95.653 %
Concentration RSD	0.2 %	0.6 %	0.2 %	0.7 %	0.5 %	0.6 %	1.0 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.4949 ppm	0.5012 ppm	0.5088 ppm	0.5120 ppm	0.4918 ppm	5.1894 ppm	0.5251 ppm
Concentration per Run	0.4957 ppm	0.5014 ppm	0.5078 ppm	0.5117 ppm	0.4898 ppm	5.1879 ppm	0.5202 ppm
Concentration per Run	0.4916 ppm	0.5000 ppm	0.5114 ppm	0.5116 ppm	0.4904 ppm	5.2046 ppm	0.5320 ppm
Concentration per Run	0.4974 ppm	0.5022 ppm	0.5070 ppm	0.5127 ppm	0.4953 ppm	5.1757 ppm	0.5232 ppm
Recovery Percentage	98.982 %	100.246 %	101.752 %	102.393 %	98.364 %	103.788 %	105.024 %
Concentration RSD	0.6 %	0.2 %	0.5 %	0.1 %	0.6 %	0.3 %	1.2 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.4981 ppm	0.4936 ppm	0.5329 ppm	10.3706 ppm	0.5115 ppm	0.4839 ppm	0.5678 ppm
Concentration per Run	0.4934 ppm	0.4923 ppm	0.5300 ppm	10.3557 ppm	0.5107 ppm	0.4835 ppm	0.5663 ppm
Concentration per Run	0.5006 ppm	0.4911 ppm	0.5331 ppm	10.3974 ppm	0.5118 ppm	0.4842 ppm	0.5653 ppm
Concentration per Run	0.5003 ppm	0.4974 ppm	0.5354 ppm	10.3589 ppm	0.5120 ppm	0.4841 ppm	0.5718 ppm
Recovery Percentage	99.622 %	98.721 %	106.573 %	103.706 %	102.301 %	96.789 %	113.568 %
Concentration RSD	0.8 %	0.7 %	0.5 %	0.2 %	0.1 %	0.1 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.4983 ppm	5.6539 ppm	0.5164 ppm	0.5083 ppm	0.5078 ppm	0.4746 ppm	0.5119 ppm
Concentration per Run	0.4967 ppm	5.6412 ppm	0.5147 ppm	0.5065 ppm	0.5087 ppm	0.4751 ppm	0.5111 ppm
Concentration per Run	0.4945 ppm	5.6516 ppm	0.5185 ppm	0.5106 ppm	0.5098 ppm	0.4748 ppm	0.5129 ppm
Concentration per Run	0.5037 ppm	5.6690 ppm	0.5158 ppm	0.5078 ppm	0.5049 ppm	0.4738 ppm	0.5116 ppm
Recovery Percentage	99.659 %	107.693 %	103.271 %	101.658 %	101.556 %	94.913 %	102.374 %
Concentration RSD	1.0 %	0.2 %	0.4 %	0.4 %	0.5 %	0.1 %	0.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5032 ppm	98.0201 %	102.7591 %	96.5231 %	93.2600 %	101.0863 %	94.2641 %
Concentration per Run	0.5017 ppm	98.4394 %	103.4545 %	96.2845 %	93.6593 %	101.6086 %	93.8677 %
Concentration per Run	0.5049 ppm	98.1163 %	102.5881 %	96.5646 %	93.2927 %	100.1181 %	94.2185 %
Concentration per Run	0.5028 ppm	97.5048 %	102.2345 %	96.7201 %	92.8281 %	101.5322 %	94.7062 %
Recovery Percentage	100.631 %						
Concentration RSD	0.3 %	0.5 %	0.6 %	0.2 %	0.4 %	0.8 %	0.4 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: CCB
 Analysis started at: 6/27/2025 2:54:28 PM
 Rack: 0
 Vial: 4
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0001 ppm	0.0020 ppm	0.0019 ppm	0.0012 ppm	0.0000 ppm	0.0001 ppm	0.0004 ppm
Concentration per Run	0.0002 ppm	-0.0005 ppm	0.0022 ppm	0.0017 ppm	0.0001 ppm	0.0001 ppm	0.0018 ppm
Concentration per Run	0.0002 ppm	0.0023 ppm	0.0020 ppm	0.0008 ppm	0.0000 ppm	0.0001 ppm	-0.0006 ppm
Concentration per Run	0.0000 ppm	0.0042 ppm	0.0015 ppm	0.0013 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm
Recovery Percentage	2.106 %	2.016 %	38.146 %	4.136 %	0.431 %	1.436 %	0.415 %
Concentration RSD	126.2 %	116.9 %	19.8 %	37.1 %	43.8 %	14.4 %	301.0 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0006 ppm	0.0011 ppm	0.0010 ppm	0.0001 ppm
Concentration per Run	0.0000 ppm	-0.0001 ppm	0.0000 ppm	0.0007 ppm	0.0014 ppm	0.0082 ppm	0.0002 ppm
Concentration per Run	0.0000 ppm	0.0002 ppm	-0.0002 ppm	0.0007 ppm	0.0012 ppm	-0.0049 ppm	0.0003 ppm
Concentration per Run	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0005 ppm	0.0008 ppm	-0.0003 ppm	-0.0003 ppm
Recovery Percentage	0.917 %	0.748 %	-0.104 %	6.324 %	2.263 %	0.040 %	0.810 %
Concentration RSD	6.8 %	198.2 %	1,316.9 %	21.6 %	29.3 %	658.4 %	363.5 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	-0.0017 ppm	0.0001 ppm	0.0158 ppm	0.0075 ppm	0.0004 ppm	0.0002 ppm	0.0100 ppm
Concentration per Run	-0.0032 ppm	0.0000 ppm	0.0155 ppm	0.0084 ppm	0.0005 ppm	0.0003 ppm	0.0103 ppm
Concentration per Run	-0.0005 ppm	0.0001 ppm	0.0163 ppm	0.0081 ppm	0.0004 ppm	-0.0004 ppm	0.0097 ppm
Concentration per Run	-0.0015 ppm	0.0000 ppm	0.0156 ppm	0.0062 ppm	0.0002 ppm	0.0007 ppm	0.0101 ppm
Recovery Percentage	-1.725 %	0.717 %	31.621 %	0.377 %	1.442 %	1.944 %	20.043 %
Concentration RSD	80.1 %	68.8 %	2.7 %	15.6 %	44.5 %	281.8 %	2.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0133 ppm	0.0075 ppm	0.0035 ppm	0.0001 ppm	0.0005 ppm	0.0003 ppm	0.0001 ppm
Concentration per Run	0.0142 ppm	0.0082 ppm	0.0029 ppm	0.0001 ppm	0.0005 ppm	0.0004 ppm	0.0002 ppm
Concentration per Run	0.0126 ppm	0.0064 ppm	0.0039 ppm	0.0001 ppm	0.0004 ppm	0.0006 ppm	0.0003 ppm
Concentration per Run	0.0130 ppm	0.0078 ppm	0.0037 ppm	0.0001 ppm	0.0007 ppm	0.0000 ppm	0.0000 ppm
Recovery Percentage	132.613 %	1.490 %	6.990 %	0.570 %	5.295 %	1.675 %	1.407 %
Concentration RSD	6.5 %	12.2 %	16.1 %	5.3 %	22.7 %	90.0 %	101.5 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0004 ppm	95.3007 %	102.0403 %	94.7030 %	93.9151 %	102.4143 %	94.9980 %
Concentration per Run	-0.0005 ppm	95.6244 %	101.7174 %	94.8724 %	93.9487 %	102.8723 %	95.4657 %
Concentration per Run	-0.0002 ppm	94.6402 %	101.7277 %	94.6565 %	93.7128 %	100.8240 %	94.9314 %
Concentration per Run	-0.0004 ppm	95.6376 %	102.6756 %	94.5803 %	94.0839 %	103.5467 %	94.5970 %
Recovery Percentage	-7.230 %						
Concentration RSD	32.4 %	0.6 %	0.5 %	0.2 %	0.2 %	1.4 %	0.5 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: CCV
 Analysis started at: 6/27/2025 3:01:34 PM
 Rack: 0
 Vial: 3
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.5091 ppm	0.4720 ppm	0.4857 ppm	0.5007 ppm	0.4995 ppm	0.4936 ppm	0.4744 ppm
Concentration per Run	0.5087 ppm	0.4758 ppm	0.4825 ppm	0.5012 ppm	0.4985 ppm	0.4929 ppm	0.4740 ppm
Concentration per Run	0.5092 ppm	0.4676 ppm	0.4868 ppm	0.4985 ppm	0.4999 ppm	0.4924 ppm	0.4758 ppm
Concentration per Run	0.5094 ppm	0.4727 ppm	0.4877 ppm	0.5022 ppm	0.5002 ppm	0.4955 ppm	0.4734 ppm
Recovery Percentage	101.826 %	94.409 %	97.140 %	100.131 %	99.904 %	98.724 %	94.879 %
Concentration RSD	0.1 %	0.9 %	0.6 %	0.4 %	0.2 %	0.3 %	0.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.4920 ppm	0.5001 ppm	0.5085 ppm	0.5105 ppm	0.4863 ppm	5.1484 ppm	0.5173 ppm
Concentration per Run	0.4922 ppm	0.4997 ppm	0.5108 ppm	0.5091 ppm	0.4847 ppm	5.1746 ppm	0.5165 ppm
Concentration per Run	0.4945 ppm	0.5002 ppm	0.5097 ppm	0.5091 ppm	0.4848 ppm	5.1230 ppm	0.5154 ppm
Concentration per Run	0.4895 ppm	0.5004 ppm	0.5049 ppm	0.5133 ppm	0.4895 ppm	5.1477 ppm	0.5199 ppm
Recovery Percentage	98.409 %	100.017 %	101.691 %	102.101 %	97.267 %	102.968 %	103.454 %
Concentration RSD	0.5 %	0.1 %	0.6 %	0.5 %	0.6 %	0.5 %	0.5 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.4987 ppm	0.4908 ppm	0.4925 ppm	10.3694 ppm	0.5100 ppm	0.4804 ppm	0.5177 ppm
Concentration per Run	0.5005 ppm	0.4916 ppm	0.4884 ppm	10.3857 ppm	0.5095 ppm	0.4783 ppm	0.5138 ppm
Concentration per Run	0.5002 ppm	0.4900 ppm	0.4927 ppm	10.3821 ppm	0.5126 ppm	0.4799 ppm	0.5206 ppm
Concentration per Run	0.4953 ppm	0.4908 ppm	0.4962 ppm	10.3403 ppm	0.5080 ppm	0.4830 ppm	0.5187 ppm
Recovery Percentage	99.733 %	98.163 %	98.491 %	103.694 %	102.009 %	96.083 %	103.540 %
Concentration RSD	0.6 %	0.2 %	0.8 %	0.2 %	0.5 %	0.5 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.4960 ppm	5.6493 ppm	0.4982 ppm	0.5057 ppm	0.5043 ppm	0.4762 ppm	0.5100 ppm
Concentration per Run	0.4920 ppm	5.6384 ppm	0.4979 ppm	0.5049 ppm	0.5078 ppm	0.4748 ppm	0.5096 ppm
Concentration per Run	0.4971 ppm	5.6523 ppm	0.4977 ppm	0.5049 ppm	0.5034 ppm	0.4768 ppm	0.5099 ppm
Concentration per Run	0.4989 ppm	5.6573 ppm	0.4989 ppm	0.5073 ppm	0.5018 ppm	0.4770 ppm	0.5106 ppm
Recovery Percentage	99.194 %	107.606 %	99.635 %	101.146 %	100.865 %	95.242 %	102.001 %
Concentration RSD	0.7 %	0.2 %	0.1 %	0.3 %	0.6 %	0.3 %	0.1 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5029 ppm	98.4522 %	103.4708 %	97.1690 %	93.9446 %	102.3124 %	95.0679 %
Concentration per Run	0.5017 ppm	98.6901 %	103.6845 %	97.4663 %	94.3027 %	103.0069 %	95.1403 %
Concentration per Run	0.5068 ppm	98.4135 %	103.5179 %	97.2956 %	93.4800 %	101.7268 %	95.0402 %
Concentration per Run	0.5004 ppm	98.2529 %	103.2099 %	96.7450 %	94.0510 %	102.2034 %	95.0231 %
Recovery Percentage	100.589 %						
Concentration RSD	0.7 %	0.2 %	0.2 %	0.4 %	0.4 %	0.6 %	0.1 %

ICP DataTrace 8

6/27/2025 3:16:20 PM



LabBook: WG2084175_06272025T8.imexp

Sample: CCB
 Analysis started at: 6/27/2025 3:05:05 PM
 Rack: 0
 Vial: 4
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0003 ppm	-0.0005 ppm	0.0021 ppm	0.0010 ppm	0.0001 ppm	0.0001 ppm	-0.0002 ppm
Concentration per Run	0.0001 ppm	0.0012 ppm	0.0021 ppm	0.0014 ppm	0.0001 ppm	0.0001 ppm	0.0015 ppm
Concentration per Run	0.0006 ppm	-0.0037 ppm	0.0014 ppm	0.0020 ppm	0.0001 ppm	0.0001 ppm	-0.0012 ppm
Concentration per Run	0.0001 ppm	0.0010 ppm	0.0029 ppm	-0.0002 ppm	0.0001 ppm	0.0001 ppm	-0.0008 ppm
Recovery Percentage	5.415 %	-0.491 %	42.696 %	3.479 %	0.652 %	1.413 %	-0.160 %
Concentration RSD	112.6 %	562.9 %	35.3 %	106.4 %	9.6 %	10.2 %	901.8 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0001 ppm	0.0001 ppm	0.0004 ppm	0.0006 ppm	0.0015 ppm	0.0050 ppm	-0.0005 ppm
Concentration per Run	0.0001 ppm	0.0001 ppm	0.0006 ppm	0.0007 ppm	0.0023 ppm	0.0102 ppm	-0.0005 ppm
Concentration per Run	0.0001 ppm	0.0002 ppm	0.0003 ppm	0.0006 ppm	0.0005 ppm	0.0058 ppm	-0.0001 ppm
Concentration per Run	0.0000 ppm	0.0002 ppm	0.0003 ppm	0.0004 ppm	0.0018 ppm	-0.0012 ppm	-0.0009 ppm
Recovery Percentage	1.461 %	1.383 %	4.072 %	6.075 %	3.071 %	0.199 %	-5.134 %
Concentration RSD	90.4 %	39.3 %	51.4 %	24.5 %	60.1 %	115.7 %	73.8 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	-0.0006 ppm	0.0000 ppm	0.0103 ppm	0.0073 ppm	0.0002 ppm	0.0004 ppm	0.0022 ppm
Concentration per Run	-0.0020 ppm	0.0001 ppm	0.0109 ppm	0.0078 ppm	0.0003 ppm	0.0000 ppm	0.0047 ppm
Concentration per Run	-0.0004 ppm	0.0000 ppm	0.0100 ppm	0.0078 ppm	-0.0001 ppm	0.0007 ppm	0.0008 ppm
Concentration per Run	0.0005 ppm	0.0000 ppm	0.0101 ppm	0.0063 ppm	0.0004 ppm	0.0004 ppm	0.0012 ppm
Recovery Percentage	-0.624 %	0.312 %	20.633 %	0.366 %	0.729 %	3.631 %	4.449 %
Concentration RSD	204.1 %	108.3 %	4.7 %	11.9 %	138.8 %	90.2 %	95.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0127 ppm	0.0085 ppm	0.0008 ppm	0.0001 ppm	0.0004 ppm	-0.0001 ppm	0.0001 ppm
Concentration per Run	0.0128 ppm	0.0092 ppm	0.0007 ppm	0.0001 ppm	0.0003 ppm	0.0001 ppm	0.0004 ppm
Concentration per Run	0.0131 ppm	0.0079 ppm	0.0014 ppm	0.0001 ppm	0.0006 ppm	-0.0006 ppm	-0.0001 ppm
Concentration per Run	0.0121 ppm	0.0083 ppm	0.0003 ppm	0.0001 ppm	0.0004 ppm	0.0002 ppm	0.0001 ppm
Recovery Percentage	126.883 %	1.695 %	1.621 %	0.861 %	4.092 %	-0.616 %	1.273 %
Concentration RSD	4.0 %	8.1 %	64.6 %	7.6 %	37.5 %	356.5 %	187.9 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0003 ppm	95.5855 %	101.9922 %	94.9434 %	94.6479 %	101.8450 %	95.3031 %
Concentration per Run	-0.0003 ppm	96.2381 %	102.3211 %	95.0835 %	95.8516 %	102.8985 %	95.2571 %
Concentration per Run	-0.0005 ppm	95.2578 %	102.7576 %	94.7854 %	94.3726 %	103.2315 %	95.4100 %
Concentration per Run	-0.0003 ppm	95.2606 %	100.8979 %	94.9613 %	93.7195 %	99.4051 %	95.2424 %
Recovery Percentage	-6.991 %						
Concentration RSD	28.9 %	0.6 %	1.0 %	0.2 %	1.2 %	2.1 %	0.1 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: Blank EFM Trace9
 Analysis started at: 6/27/2025 9:34:20 AM
 Rack: 0
 Vial: 1
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-0.3 %	-0.2 %	-0.8 %	0.5 %	0.6 %	-0.4 %	0.0 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-1.5 %	0.7 %	-0.3 %	0.0 %	-12.7 %	-0.5 %	2.0 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-11.8 %	-1.5 %	2.0 %	0.1 %	-1.5 %	1.8 %	-2.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	-1.7 %	0.0 %	0.4 %	0.5 %	-0.3 %	-0.4 %	0.7 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration per Run	0.0000 ppm	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %	100.0000 %
Concentration RSD	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %	0.0 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: ICAL
 Analysis started at: 6/27/2025 9:37:41 AM
 Rack: 0
 Vial: 2
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	10.0000 ppm
Concentration per Run 1	0.9946 ppm	24.9473 ppm	1.0088 ppm	0.9918 ppm	1.0082 ppm	1.0008 ppm	10.0245 ppm
Concentration per Run 2	1.0051 ppm	25.0723 ppm	0.9796 ppm	1.0002 ppm	0.9922 ppm	0.9943 ppm	9.8844 ppm
Concentration per Run 3	1.0003 ppm	24.9804 ppm	1.0116 ppm	1.0079 ppm	0.9995 ppm	1.0049 ppm	10.0910 ppm
Concentration RSD	0.5 %	0.3 %	1.8 %	0.8 %	0.8 %	0.5 %	1.1 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	35.0000 ppm	1.0000 ppm
Concentration per Run 1	1.0057 ppm	1.0028 ppm	0.9952 ppm	0.9991 ppm	24.9675 ppm	35.3060 ppm	1.0049 ppm
Concentration per Run 2	0.9962 ppm	0.9970 ppm	1.0064 ppm	0.9949 ppm	24.7926 ppm	34.4970 ppm	0.9892 ppm
Concentration per Run 3	0.9982 ppm	1.0002 ppm	0.9984 ppm	1.0061 ppm	25.2399 ppm	35.1970 ppm	1.0058 ppm
Concentration RSD	0.5 %	0.3 %	0.6 %	0.6 %	0.9 %	1.3 %	0.9 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	10.0000 ppm	1.0000 ppm	1.0000 ppm	25.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	9.9390 ppm	1.0046 ppm	0.9972 ppm	24.9328 ppm	0.9913 ppm	1.0107 ppm	0.9978 ppm
Concentration per Run 2	10.0597 ppm	0.9928 ppm	1.0041 ppm	25.0056 ppm	1.0080 ppm	0.9805 ppm	0.9887 ppm
Concentration per Run 3	10.0013 ppm	1.0026 ppm	0.9987 ppm	25.0616 ppm	1.0007 ppm	1.0088 ppm	1.0135 ppm
Concentration RSD	0.6 %	0.6 %	0.4 %	0.3 %	0.8 %	1.7 %	1.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	1.0000 ppm	10.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm	1.0000 ppm
Concentration per Run 1	1.0055 ppm	9.9914 ppm	0.9937 ppm	1.0028 ppm	0.9971 ppm	1.0043 ppm	0.9970 ppm
Concentration per Run 2	0.9875 ppm	9.9856 ppm	1.0058 ppm	1.0051 ppm	1.0056 ppm	0.9897 ppm	0.9937 ppm
Concentration per Run 3	1.0069 ppm	10.0230 ppm	1.0005 ppm	0.9921 ppm	0.9974 ppm	1.0060 ppm	1.0093 ppm
Concentration RSD	1.1 %	0.2 %	0.6 %	0.7 %	0.5 %	0.9 %	0.8 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0000 ppm	96.7414 %	96.3350 %	92.2927 %	88.3361 %	94.8551 %	93.7427 %
Concentration per Run 1	0.9936 ppm	96.9165 %	95.7564 %	92.5099 %	88.3148 %	94.4219 %	94.0401 %
Concentration per Run 2	1.0078 ppm	96.9078 %	98.4340 %	91.4214 %	89.7354 %	96.6766 %	92.5453 %
Concentration per Run 3	0.9986 ppm	96.3998 %	94.8147 %	92.9468 %	86.9582 %	93.4669 %	94.6426 %
Concentration RSD	0.7 %	0.3 %	1.9 %	0.9 %	1.6 %	1.7 %	1.2 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: ICV
 Analysis started at: 6/27/2025 9:41:21 AM
 Rack: 0
 Vial: 3
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.5305 ppm	0.4848 ppm	0.4729 ppm	0.5036 ppm	0.4949 ppm	0.5019 ppm	0.5057 ppm
Concentration per Run 1	0.5319 ppm	0.4812 ppm	0.4736 ppm	0.5027 ppm	0.4962 ppm	0.5033 ppm	0.5071 ppm
Concentration per Run 2	0.5287 ppm	0.4862 ppm	0.4732 ppm	0.5033 ppm	0.4960 ppm	0.5027 ppm	0.5027 ppm
Concentration per Run 3	0.5308 ppm	0.4869 ppm	0.4719 ppm	0.5050 ppm	0.4925 ppm	0.4996 ppm	0.5074 ppm
Recovery Percentage 1	106.092 %	96.954 %	94.581 %	100.728 %	98.986 %	100.371 %	101.150 %
Concentration RSD	0.3 %	0.6 %	0.2 %	0.2 %	0.4 %	0.4 %	0.5 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.4885 ppm	0.5071 ppm	0.5247 ppm	0.4949 ppm	0.5058 ppm	5.0697 ppm	0.5095 ppm
Concentration per Run 1	0.4888 ppm	0.5073 ppm	0.5261 ppm	0.4953 ppm	0.5093 ppm	5.0493 ppm	0.5088 ppm
Concentration per Run 2	0.4849 ppm	0.5046 ppm	0.5228 ppm	0.4948 ppm	0.5051 ppm	5.0958 ppm	0.5131 ppm
Concentration per Run 3	0.4918 ppm	0.5093 ppm	0.5251 ppm	0.4946 ppm	0.5031 ppm	5.0641 ppm	0.5067 ppm
Recovery Percentage 1	97.697 %	101.419 %	104.934 %	98.978 %	101.164 %	101.395 %	101.898 %
Concentration RSD	0.7 %	0.5 %	0.3 %	0.1 %	0.6 %	0.5 %	0.6 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.5281 ppm	0.5037 ppm	0.5103 ppm	10.0534 ppm	0.5336 ppm	0.5048 ppm	0.4961 ppm
Concentration per Run 1	0.5288 ppm	0.5026 ppm	0.5090 ppm	9.9490 ppm	0.5360 ppm	0.5044 ppm	0.5009 ppm
Concentration per Run 2	0.5272 ppm	0.5048 ppm	0.5073 ppm	10.1056 ppm	0.5312 ppm	0.5051 ppm	0.4935 ppm
Concentration per Run 3	0.5282 ppm	0.5038 ppm	0.5145 ppm	10.1056 ppm	0.5337 ppm	0.5050 ppm	0.4938 ppm
Recovery Percentage 1	105.615 %	100.746 %	102.057 %	100.534 %	106.726 %	100.966 %	99.215 %
Concentration RSD	0.2 %	0.2 %	0.7 %	0.9 %	0.5 %	0.1 %	0.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.4818 ppm	5.3784 ppm	0.5231 ppm	0.5009 ppm	0.5164 ppm	0.5030 ppm	0.4944 ppm
Concentration per Run 1	0.4831 ppm	5.3546 ppm	0.5249 ppm	0.4996 ppm	0.5187 ppm	0.5029 ppm	0.4944 ppm
Concentration per Run 2	0.4803 ppm	5.3687 ppm	0.5202 ppm	0.5024 ppm	0.5136 ppm	0.5029 ppm	0.4950 ppm
Concentration per Run 3	0.4822 ppm	5.4120 ppm	0.5242 ppm	0.5007 ppm	0.5170 ppm	0.5032 ppm	0.4936 ppm
Recovery Percentage 1	96.369 %	102.446 %	104.621 %	100.178 %	103.290 %	100.594 %	98.871 %
Concentration RSD	0.3 %	0.6 %	0.5 %	0.3 %	0.5 %	0.0 %	0.1 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5274 ppm	98.6308 %	99.7896 %	98.3460 %	96.7891 %	98.5400 %	97.5971 %
Concentration per Run 1	0.5282 ppm	98.6046 %	99.4855 %	97.9159 %	96.6862 %	97.7957 %	97.1370 %
Concentration per Run 2	0.5253 ppm	98.9648 %	99.7942 %	98.4174 %	97.1214 %	98.8691 %	97.5896 %
Concentration per Run 3	0.5288 ppm	98.3231 %	100.0890 %	98.7048 %	96.5596 %	98.9553 %	98.0648 %
Recovery Percentage 1	105.484 %						
Concentration RSD	0.4 %	0.3 %	0.3 %	0.4 %	0.3 %	0.7 %	0.5 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: ICB
 Analysis started at: 6/27/2025 9:44:34 AM
 Rack: 0
 Vial: 4
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0003 ppm	0.0009 ppm	0.0001 ppm	-0.0006 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm
Concentration per Run 1	0.0003 ppm	-0.0002 ppm	0.0005 ppm	-0.0011 ppm	-0.0001 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 2	0.0003 ppm	0.0013 ppm	-0.0004 ppm	0.0004 ppm	0.0001 ppm	0.0000 ppm	-0.0008 ppm
Concentration per Run 3	0.0004 ppm	0.0017 ppm	0.0001 ppm	-0.0012 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm
Recovery Percentage 1	4.647 %	0.915 %	2.071 %	-2.145 %	0.049 %	0.170 %	-0.189 %
Concentration RSD	17.1 %	106.7 %	435.8 %	135.9 %	1,503.5 %	8.0 %	288.1 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0001 ppm	-0.0002 ppm	0.0002 ppm	0.0002 ppm	0.0010 ppm	0.0027 ppm	0.0006 ppm
Concentration per Run 1	0.0001 ppm	-0.0003 ppm	-0.0002 ppm	0.0003 ppm	0.0008 ppm	-0.0015 ppm	0.0009 ppm
Concentration per Run 2	0.0000 ppm	-0.0004 ppm	0.0000 ppm	0.0001 ppm	0.0023 ppm	0.0012 ppm	0.0004 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	0.0007 ppm	0.0003 ppm	-0.0001 ppm	0.0085 ppm	0.0005 ppm
Recovery Percentage 1	1.351 %	-1.087 %	1.698 %	2.258 %	1.934 %	0.108 %	12.513 %
Concentration RSD	102.4 %	112.3 %	261.9 %	48.2 %	124.5 %	191.8 %	39.5 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0005 ppm	0.0003 ppm	0.0030 ppm	0.0027 ppm	0.0002 ppm	0.0004 ppm	0.0009 ppm
Concentration per Run 1	-0.0003 ppm	0.0003 ppm	0.0027 ppm	0.0035 ppm	0.0003 ppm	0.0007 ppm	0.0025 ppm
Concentration per Run 2	0.0003 ppm	0.0002 ppm	0.0032 ppm	0.0021 ppm	0.0001 ppm	-0.0002 ppm	0.0005 ppm
Concentration per Run 3	0.0017 ppm	0.0003 ppm	0.0030 ppm	0.0024 ppm	0.0002 ppm	0.0007 ppm	-0.0003 ppm
Recovery Percentage 1	0.543 %	2.640 %	5.904 %	0.134 %	0.760 %	3.769 %	1.759 %
Concentration RSD	187.8 %	27.1 %	9.8 %	26.3 %	61.5 %	139.6 %	162.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0012 ppm	0.0029 ppm	0.0004 ppm	0.0000 ppm	0.0002 ppm	-0.0001 ppm	0.0001 ppm
Concentration per Run 1	0.0016 ppm	0.0040 ppm	0.0005 ppm	0.0000 ppm	0.0002 ppm	-0.0014 ppm	0.0001 ppm
Concentration per Run 2	0.0006 ppm	0.0021 ppm	0.0003 ppm	0.0000 ppm	0.0002 ppm	0.0007 ppm	0.0002 ppm
Concentration per Run 3	0.0015 ppm	0.0027 ppm	0.0003 ppm	0.0000 ppm	0.0002 ppm	0.0003 ppm	0.0002 ppm
Recovery Percentage 1	12.354 %	0.584 %	0.724 %	0.088 %	1.616 %	-0.674 %	1.420 %
Concentration RSD	46.1 %	32.5 %	38.4 %	62.0 %	1.5 %	812.8 %	46.9 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0008 ppm	99.1547 %	99.2313 %	98.1701 %	99.7563 %	99.3700 %	98.8511 %
Concentration per Run 1	-0.0008 ppm	98.2432 %	99.6169 %	98.6485 %	98.8084 %	100.0143 %	99.2137 %
Concentration per Run 2	-0.0007 ppm	99.7902 %	99.2350 %	98.5622 %	100.7661 %	99.5154 %	99.3793 %
Concentration per Run 3	-0.0008 ppm	99.4306 %	98.8419 %	97.2995 %	99.6942 %	98.5803 %	97.9602 %
Recovery Percentage 1	-15.391 %						
Concentration RSD	7.1 %	0.8 %	0.4 %	0.8 %	1.0 %	0.7 %	0.8 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: ICV
Analysis started at: 6/27/2025 9:47:47 AM
Rack: 0
Vial: 10
Comment: positon changed

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.5265 ppm	0.4806 ppm	0.4736 ppm	0.4975 ppm	0.4960 ppm	0.5042 ppm	0.4845 ppm
Concentration per Run 1	0.5224 ppm	0.4781 ppm	0.4706 ppm	0.4965 ppm	0.4966 ppm	0.5045 ppm	0.4810 ppm
Concentration per Run 2	0.5292 ppm	0.4809 ppm	0.4751 ppm	0.4992 ppm	0.4974 ppm	0.5042 ppm	0.4864 ppm
Concentration per Run 3	0.5279 ppm	0.4829 ppm	0.4750 ppm	0.4968 ppm	0.4940 ppm	0.5039 ppm	0.4861 ppm
Recovery Percentage 1	105.300 %	96.130 %	94.718 %	99.494 %	99.201 %	100.837 %	96.899 %
Concentration RSD	0.7 %	0.5 %	0.5 %	0.3 %	0.4 %	0.1 %	0.6 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.4810 ppm	0.5023 ppm	0.5203 ppm	0.4956 ppm	0.5056 ppm	5.0771 ppm	0.4992 ppm
Concentration per Run 1	0.4799 ppm	0.5022 ppm	0.5144 ppm	0.4947 ppm	0.5051 ppm	5.0993 ppm	0.4972 ppm
Concentration per Run 2	0.4826 ppm	0.5023 ppm	0.5260 ppm	0.4958 ppm	0.5081 ppm	5.0704 ppm	0.5016 ppm
Concentration per Run 3	0.4804 ppm	0.5024 ppm	0.5204 ppm	0.4964 ppm	0.5035 ppm	5.0615 ppm	0.4989 ppm
Recovery Percentage 1	96.197 %	100.463 %	104.052 %	99.126 %	101.114 %	101.542 %	99.845 %
Concentration RSD	0.3 %	0.0 %	1.1 %	0.2 %	0.5 %	0.4 %	0.4 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.5177 ppm	0.5031 ppm	0.5083 ppm	10.0530 ppm	0.5268 ppm	0.5064 ppm	0.4887 ppm
Concentration per Run 1	0.5145 ppm	0.5035 ppm	0.5053 ppm	9.9851 ppm	0.5205 ppm	0.5058 ppm	0.4872 ppm
Concentration per Run 2	0.5197 ppm	0.5037 ppm	0.5101 ppm	10.0812 ppm	0.5338 ppm	0.5082 ppm	0.4927 ppm
Concentration per Run 3	0.5189 ppm	0.5021 ppm	0.5095 ppm	10.0928 ppm	0.5261 ppm	0.5053 ppm	0.4862 ppm
Recovery Percentage 1	103.548 %	100.617 %	101.668 %	100.530 %	105.360 %	101.282 %	97.739 %
Concentration RSD	0.5 %	0.2 %	0.5 %	0.6 %	1.3 %	0.3 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.4829 ppm	5.3064 ppm	0.5288 ppm	0.4975 ppm	0.5158 ppm	0.5053 ppm	0.4921 ppm
Concentration per Run 1	0.4838 ppm	5.2607 ppm	0.5261 ppm	0.4971 ppm	0.5117 ppm	0.5023 ppm	0.4913 ppm
Concentration per Run 2	0.4827 ppm	5.3290 ppm	0.5341 ppm	0.4981 ppm	0.5188 ppm	0.5066 ppm	0.4939 ppm
Concentration per Run 3	0.4823 ppm	5.3296 ppm	0.5263 ppm	0.4973 ppm	0.5169 ppm	0.5069 ppm	0.4912 ppm
Recovery Percentage 1	96.583 %	101.074 %	105.766 %	99.505 %	103.162 %	101.051 %	98.424 %
Concentration RSD	0.2 %	0.7 %	0.9 %	0.1 %	0.7 %	0.5 %	0.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5205 ppm	99.5258 %	99.7566 %	98.1283 %	98.0987 %	98.2082 %	97.5471 %
Concentration per Run 1	0.5178 ppm	99.4736 %	100.0366 %	98.3973 %	97.8248 %	98.3065 %	97.9447 %
Concentration per Run 2	0.5260 ppm	99.4090 %	99.0579 %	98.3058 %	97.9136 %	97.8423 %	97.6351 %
Concentration per Run 3	0.5178 ppm	99.6949 %	100.1751 %	97.6818 %	98.5578 %	98.4757 %	97.0616 %
Recovery Percentage 1	104.109 %						
Concentration RSD	0.9 %	0.2 %	0.6 %	0.4 %	0.4 %	0.3 %	0.5 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: ICB
 Analysis started at: 6/27/2025 9:51:03 AM
 Rack: 0
 Vial: 4
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0002 ppm	0.0057 ppm	-0.0006 ppm	-0.0004 ppm	0.0000 ppm	0.0000 ppm	-0.0004 ppm
Concentration per Run 1	0.0001 ppm	0.0053 ppm	-0.0016 ppm	-0.0015 ppm	0.0001 ppm	0.0000 ppm	-0.0015 ppm
Concentration per Run 2	0.0002 ppm	0.0029 ppm	0.0009 ppm	-0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 3	0.0002 ppm	0.0090 ppm	-0.0011 ppm	0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm
Recovery Percentage 1	2.594 %	5.737 %	-12.195 %	-1.368 %	0.422 %	0.731 %	-0.372 %
Concentration RSD	23.4 %	53.6 %	217.5 %	241.1 %	72.0 %	31.3 %	271.6 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0001 ppm	0.0000 ppm	0.0003 ppm	0.0001 ppm	0.0007 ppm	0.0000 ppm	0.0004 ppm
Concentration per Run 1	0.0001 ppm	0.0003 ppm	0.0005 ppm	0.0003 ppm	0.0005 ppm	0.0014 ppm	0.0007 ppm
Concentration per Run 2	0.0001 ppm	-0.0005 ppm	0.0004 ppm	0.0002 ppm	0.0008 ppm	0.0028 ppm	-0.0001 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0001 ppm	-0.0001 ppm	0.0008 ppm	-0.0042 ppm	0.0006 ppm
Recovery Percentage 1	1.021 %	-0.225 %	3.418 %	1.233 %	1.394 %	0.001 %	7.639 %
Concentration RSD	114.0 %	813.5 %	60.2 %	164.7 %	27.8 %	24,481.7 %	117.3 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0004 ppm	0.0002 ppm	0.0027 ppm	0.0013 ppm	0.0009 ppm	0.0002 ppm	0.0007 ppm
Concentration per Run 1	0.0005 ppm	0.0001 ppm	0.0030 ppm	0.0009 ppm	0.0007 ppm	0.0006 ppm	0.0019 ppm
Concentration per Run 2	0.0018 ppm	0.0003 ppm	0.0028 ppm	0.0010 ppm	0.0009 ppm	-0.0002 ppm	0.0001 ppm
Concentration per Run 3	-0.0011 ppm	0.0003 ppm	0.0023 ppm	0.0020 ppm	0.0011 ppm	0.0001 ppm	0.0002 ppm
Recovery Percentage 1	0.407 %	2.369 %	5.413 %	0.063 %	3.613 %	1.656 %	1.401 %
Concentration RSD	351.1 %	57.1 %	13.7 %	48.3 %	24.9 %	262.0 %	143.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0007 ppm	0.0015 ppm	0.0002 ppm	0.0000 ppm	0.0004 ppm	0.0002 ppm	0.0000 ppm
Concentration per Run 1	0.0003 ppm	0.0019 ppm	0.0005 ppm	0.0000 ppm	0.0006 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 2	0.0021 ppm	0.0019 ppm	0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0003 ppm	0.0000 ppm
Concentration per Run 3	-0.0003 ppm	0.0008 ppm	-0.0002 ppm	0.0000 ppm	0.0003 ppm	0.0002 ppm	0.0000 ppm
Recovery Percentage 1	7.018 %	0.306 %	0.302 %	0.099 %	3.915 %	1.124 %	0.002 %
Concentration RSD	181.1 %	40.5 %	232.5 %	225.5 %	53.5 %	37.7 %	12,899.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0006 ppm	99.9223 %	99.8709 %	98.6252 %	100.1904 %	99.7802 %	99.2933 %
Concentration per Run 1	-0.0006 ppm	100.0391 %	99.5857 %	99.0748 %	100.0421 %	99.5595 %	99.8315 %
Concentration per Run 2	-0.0009 ppm	99.8400 %	100.4317 %	98.3062 %	100.5298 %	100.1374 %	98.9566 %
Concentration per Run 3	-0.0004 ppm	99.8878 %	99.5954 %	98.4944 %	99.9994 %	99.6437 %	99.0918 %
Recovery Percentage 1	-12.783 %						
Concentration RSD	38.9 %	0.1 %	0.5 %	0.4 %	0.3 %	0.3 %	0.5 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: LLOQ
Analysis started at: 6/27/2025 9:54:16 AM
Rack: 0
Vial: 5
Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0054 ppm	0.0990 ppm	0.0041 ppm	0.0291 ppm	0.0100 ppm	0.0050 ppm	0.1008 ppm
Concentration per Run 1	0.0052 ppm	0.1015 ppm	0.0043 ppm	0.0297 ppm	0.0099 ppm	0.0050 ppm	0.1002 ppm
Concentration per Run 2	0.0053 ppm	0.0978 ppm	0.0033 ppm	0.0292 ppm	0.0101 ppm	0.0051 ppm	0.1019 ppm
Concentration per Run 3	0.0056 ppm	0.0976 ppm	0.0045 ppm	0.0283 ppm	0.0099 ppm	0.0049 ppm	0.1003 ppm
Recovery Percentage 1	107.552 %	98.965 %	81.205 %	96.936 %	99.662 %	99.757 %	100.806 %
Concentration RSD	4.2 %	2.2 %	16.0 %	2.5 %	0.9 %	1.2 %	1.0 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0038 ppm	0.0099 ppm	0.0105 ppm	0.0098 ppm	0.0526 ppm	2.5047 ppm	0.0122 ppm
Concentration per Run 1	0.0038 ppm	0.0095 ppm	0.0106 ppm	0.0099 ppm	0.0514 ppm	2.5184 ppm	0.0124 ppm
Concentration per Run 2	0.0038 ppm	0.0103 ppm	0.0107 ppm	0.0097 ppm	0.0536 ppm	2.5098 ppm	0.0125 ppm
Concentration per Run 3	0.0037 ppm	0.0097 ppm	0.0103 ppm	0.0098 ppm	0.0528 ppm	2.4858 ppm	0.0116 ppm
Recovery Percentage 1	94.637 %	98.641 %	105.076 %	98.118 %	105.202 %	100.187 %	121.785 %
Concentration RSD	1.7 %	4.0 %	1.8 %	0.9 %	2.1 %	0.7 %	4.0 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.1052 ppm	0.0099 ppm	0.0505 ppm	1.9935 ppm	0.0210 ppm	0.0098 ppm	0.0496 ppm
Concentration per Run 1	0.1052 ppm	0.0100 ppm	0.0507 ppm	2.0009 ppm	0.0203 ppm	0.0097 ppm	0.0529 ppm
Concentration per Run 2	0.1054 ppm	0.0100 ppm	0.0505 ppm	2.0113 ppm	0.0215 ppm	0.0096 ppm	0.0475 ppm
Concentration per Run 3	0.1051 ppm	0.0098 ppm	0.0503 ppm	1.9682 ppm	0.0211 ppm	0.0099 ppm	0.0484 ppm
Recovery Percentage 1	105.226 %	98.988 %	101.038 %	99.673 %	104.782 %	97.512 %	99.240 %
Concentration RSD	0.2 %	1.1 %	0.4 %	1.1 %	2.9 %	1.3 %	5.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0098 ppm	0.4946 ppm	0.0517 ppm	0.0099 ppm	0.0102 ppm	0.0194 ppm	0.0093 ppm
Concentration per Run 1	0.0109 ppm	0.4964 ppm	0.0517 ppm	0.0098 ppm	0.0100 ppm	0.0193 ppm	0.0092 ppm
Concentration per Run 2	0.0101 ppm	0.4952 ppm	0.0523 ppm	0.0100 ppm	0.0103 ppm	0.0192 ppm	0.0092 ppm
Concentration per Run 3	0.0085 ppm	0.4920 ppm	0.0510 ppm	0.0098 ppm	0.0102 ppm	0.0196 ppm	0.0093 ppm
Recovery Percentage 1	98.432 %	98.912 %	103.327 %	98.786 %	101.637 %	96.789 %	92.609 %
Concentration RSD	12.5 %	0.5 %	1.2 %	0.8 %	1.4 %	1.0 %	0.5 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0044 ppm	101.3600 %	100.8937 %	100.1975 %	99.7472 %	99.6713 %	99.0583 %
Concentration per Run 1	0.0044 ppm	101.3297 %	101.5314 %	100.5694 %	99.7261 %	100.2486 %	99.3747 %
Concentration per Run 2	0.0045 ppm	100.9892 %	99.9898 %	99.9999 %	99.8750 %	99.5085 %	98.8683 %
Concentration per Run 3	0.0043 ppm	101.7610 %	101.1598 %	100.0233 %	99.6406 %	99.2569 %	98.9319 %
Recovery Percentage 1	87.818 %						
Concentration RSD	2.5 %	0.4 %	0.8 %	0.3 %	0.1 %	0.5 %	0.3 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: ICSA
Analysis started at: 6/27/2025 9:57:29 AM
Rack: 0
Vial: 6
Comment: LDR +/-10%

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0010 ppm	500.8151 [SIC 500]	-0.0040 ppm	-0.0112 ppm	0.0020 ppm	0.0001 ppm	458.9380 ppm
Concentration per Run 1	0.0010 ppm	500.2522 ppm	-0.0035 ppm	-0.0119 ppm	0.0021 ppm	0.0000 ppm	456.8567 ppm
Concentration per Run 2	0.0010 ppm	499.7471 ppm	-0.0044 ppm	-0.0131 ppm	0.0021 ppm	0.0001 ppm	456.1511 ppm
Concentration per Run 3	0.0011 ppm	502.4459 ppm	-0.0041 ppm	-0.0085 ppm	0.0019 ppm	0.0001 ppm	463.8063 ppm
Recovery Percentage 1	14.441 %		-80.129 %	-37.232 %	20.132 %	1.509 %	
Concentration RSD	5.7 %	0.3 %	12.2 %	21.2 %	5.0 %	33.4 %	0.9 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0003 ppm	0.0001 ppm	0.0004 ppm	0.0035 ppm	180.3647 ppm	0.0019 ppm	-0.0018 ppm
Concentration per Run 1	-0.0004 ppm	0.0000 ppm	0.0002 ppm	0.0032 ppm	179.1981 ppm	0.0093 ppm	-0.0019 ppm
Concentration per Run 2	-0.0003 ppm	0.0003 ppm	0.0001 ppm	0.0044 ppm	180.3234 ppm	-0.0033 ppm	-0.0022 ppm
Concentration per Run 3	-0.0002 ppm	0.0001 ppm	0.0009 ppm	0.0030 ppm	181.5725 ppm	-0.0002 ppm	-0.0013 ppm
Recovery Percentage 1	-6.070 %	0.556 %	4.057 %	35.205 %		0.077 %	-36.437 %
Concentration RSD	41.8 %	136.7 %	113.3 %	20.7 %	0.7 %	343.1 %	24.4 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	452.9261 ppm	0.0004 ppm	0.0008 ppm	0.0147 ppm	0.0005 ppm	0.0029 ppm	-0.0146 ppm
Concentration per Run 1	454.2355 ppm	0.0002 ppm	0.0008 ppm	0.0152 ppm	0.0010 ppm	0.0040 ppm	-0.0129 ppm
Concentration per Run 2	451.5507 ppm	0.0005 ppm	0.0008 ppm	0.0169 ppm	0.0004 ppm	0.0027 ppm	-0.0184 ppm
Concentration per Run 3	452.9922 ppm	0.0004 ppm	0.0007 ppm	0.0119 ppm	0.0000 ppm	0.0020 ppm	-0.0125 ppm
Recovery Percentage 1		4.006 %	1.508 %	0.734 %	1.841 %	29.038 %	-29.211 %
Concentration RSD	0.3 %	35.2 %	11.2 %	17.3 %	112.4 %	36.0 %	22.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0034 ppm	0.0015 ppm	0.0005 ppm	0.0061 ppm	0.0000 ppm	0.0026 ppm	-0.0056 ppm
Concentration per Run 1	0.0040 ppm	0.0034 ppm	0.0015 ppm	0.0062 ppm	-0.0001 ppm	0.0022 ppm	-0.0052 ppm
Concentration per Run 2	0.0016 ppm	-0.0009 ppm	0.0014 ppm	0.0061 ppm	0.0002 ppm	0.0034 ppm	-0.0062 ppm
Concentration per Run 3	0.0045 ppm	0.0022 ppm	-0.0014 ppm	0.0061 ppm	0.0000 ppm	0.0023 ppm	-0.0053 ppm
Recovery Percentage 1	33.622 %	0.310 %	0.971 %	61.136 %	0.195 %	13.095 %	-55.863 %
Concentration RSD	46.5 %	144.1 %	331.0 %	0.9 %	767.4 %	25.1 %	10.0 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0073 ppm	83.9792 %	87.1136 %	70.0711 %	76.4028 %	86.6267 %	79.7795 %
Concentration per Run 1	-0.0071 ppm	84.4857 %	87.1499 %	70.1822 %	76.8145 %	86.5043 %	80.1083 %
Concentration per Run 2	-0.0075 ppm	84.1272 %	87.6805 %	69.8353 %	75.4200 %	86.8224 %	79.5221 %
Concentration per Run 3	-0.0072 ppm	83.3247 %	86.5104 %	70.1959 %	76.9738 %	86.5533 %	79.7081 %
Recovery Percentage 1	-145.485 %						
Concentration RSD	3.3 %	0.7 %	0.7 %	0.3 %	1.1 %	0.2 %	0.4 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: SIC Multi
Analysis started at: 6/27/2025 10:02:44 AM
Rack: 0
Vial: 7
Comment: LDR +/-10%

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0010 ppm	0.0289 ppm	-0.0024 ppm	0.0011 ppm	0.0001 ppm	-0.0019 ppm	0.0024 ppm
Concentration per Run 1	-0.0009 ppm	0.0265 ppm	-0.0015 ppm	0.0013 ppm	0.0002 ppm	-0.0018 ppm	0.0018 ppm
Concentration per Run 2	-0.0012 ppm	0.0280 ppm	-0.0035 ppm	0.0009 ppm	0.0001 ppm	-0.0020 ppm	0.0021 ppm
Concentration per Run 3	-0.0009 ppm	0.0323 ppm	-0.0022 ppm	0.0012 ppm	0.0001 ppm	-0.0019 ppm	0.0033 ppm
Recovery Percentage 1	-14.181 %	28.928 %	-48.135 %	3.736 %	1.377 %	-47.366 %	2.421 %
Concentration RSD	18.9 %	10.4 %	42.1 %	14.8 %	15.9 %	6.3 %	33.7 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0001 ppm	-0.0061 ppm	20.5143 ppm	-0.0021 ppm	0.0136 ppm	0.0069 ppm	0.0007 ppm
Concentration per Run 1	-0.0001 ppm	-0.0071 ppm	20.5679 ppm	-0.0021 ppm	0.0132 ppm	0.0049 ppm	0.0006 ppm
Concentration per Run 2	-0.0001 ppm	-0.0056 ppm	20.5440 ppm	-0.0018 ppm	0.0132 ppm	-0.0035 ppm	0.0004 ppm
Concentration per Run 3	-0.0002 ppm	-0.0058 ppm	20.4309 ppm	-0.0022 ppm	0.0143 ppm	0.0192 ppm	0.0012 ppm
Recovery Percentage 1	-2.875 %	-30.691 %	205,142.658 %	-20.575 %	27.105 %	0.275 %	14.747 %
Concentration RSD	8.0 %	13.7 %	0.4 %	10.5 %	4.5 %	166.7 %	59.4 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0034 ppm	19.8465 ppm	-0.0011 ppm	0.0080 ppm	0.0003 ppm	-0.0014 ppm	-0.0175 ppm
Concentration per Run 1	0.0057 ppm	19.8403 ppm	-0.0012 ppm	0.0066 ppm	0.0005 ppm	-0.0016 ppm	-0.0185 ppm
Concentration per Run 2	0.0022 ppm	19.7746 ppm	-0.0012 ppm	0.0084 ppm	0.0007 ppm	-0.0018 ppm	-0.0145 ppm
Concentration per Run 3	0.0023 ppm	19.9247 ppm	-0.0009 ppm	0.0089 ppm	-0.0004 ppm	-0.0010 ppm	-0.0195 ppm
Recovery Percentage 1	3.385 %	198,465.151 %	-2.241 %	0.399 %	1.118 %	-14.483 %	-34.984 %
Concentration RSD	58.1 %	0.4 %	17.8 %	15.1 %	202.2 %	28.6 %	15.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0068 ppm	-0.0680 ppm	0.0075 ppm	0.0000 ppm	20.0261 ppm	-0.0040 ppm	9.6421 ppm
Concentration per Run 1	-0.0063 ppm	-0.1112 ppm	0.0074 ppm	0.0000 ppm	20.1044 ppm	-0.0031 ppm	9.6035 ppm
Concentration per Run 2	-0.0082 ppm	-0.0549 ppm	0.0079 ppm	0.0001 ppm	20.0014 ppm	-0.0047 ppm	9.6654 ppm
Concentration per Run 3	-0.0059 ppm	-0.0380 ppm	0.0072 ppm	0.0000 ppm	19.9726 ppm	-0.0041 ppm	9.6575 ppm
Recovery Percentage 1	-67.876 %	-13.608 %	14.996 %	0.307 %	200,261.475 %	-19.899 %	96,421.437 %
Concentration RSD	17.7 %	56.3 %	5.3 %	115.1 %	0.3 %	19.9 %	0.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0016 ppm	99.9470 %	100.2523 %	96.2850 %	98.3735 %	98.6761 %	98.0256 %
Concentration per Run 1	-0.0017 ppm	100.1873 %	100.5046 %	96.2554 %	98.8401 %	98.8971 %	97.8232 %
Concentration per Run 2	-0.0017 ppm	99.7361 %	100.5378 %	96.2706 %	98.1242 %	98.9008 %	98.2366 %
Concentration per Run 3	-0.0014 ppm	99.9176 %	99.7145 %	96.3289 %	98.1562 %	98.2303 %	98.0170 %
Recovery Percentage 1	-31.323 %						
Concentration RSD	11.0 %	0.2 %	0.5 %	0.0 %	0.4 %	0.4 %	0.2 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: LDR Check
 Analysis started at: 6/27/2025 10:06:59 AM
 Rack: 0
 Vial: 8
 Comment: LDR +/-10%

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0011 ppm	0.0463 ppm	6.0003 ppm	5.2057 [SIC 50]	9.8541 ppm	0.0020 ppm	0.0247 ppm
Concentration per Run 1	0.0012 ppm	0.0474 ppm	5.9820 ppm	5.1598 ppm	9.8947 ppm	0.0020 ppm	0.0235 ppm
Concentration per Run 2	0.0007 ppm	0.0512 ppm	6.0204 ppm	5.2288 ppm	9.8456 ppm	0.0020 ppm	0.0251 ppm
Concentration per Run 3	0.0014 ppm	0.0402 ppm	5.9986 ppm	5.2284 ppm	9.8220 ppm	0.0019 ppm	0.0255 ppm
Recovery Percentage 1			120.006 %	104.114 %	98.541 %		
Concentration RSD	30.6 %	12.1 %	0.3 %	0.8 %	0.4 %	1.1 %	4.4 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0018 ppm	0.0063 ppm	0.0015 ppm	19.4122 ppm	0.0064 ppm	305.0228 ppm	4.9704 ppm
Concentration per Run 1	0.0018 ppm	0.0060 ppm	0.0019 ppm	19.4001 ppm	0.0069 ppm	305.1988 ppm	4.9878 ppm
Concentration per Run 2	0.0016 ppm	0.0063 ppm	0.0012 ppm	19.3945 ppm	0.0066 ppm	305.5842 ppm	4.9795 ppm
Concentration per Run 3	0.0018 ppm	0.0067 ppm	0.0013 ppm	19.4421 ppm	0.0058 ppm	304.2853 ppm	4.9438 ppm
Recovery Percentage 1	0.000 %	0.000 %		97.061 %		101.674 %	
Concentration RSD	5.9 %	5.1 %	24.7 %	0.1 %	8.5 %	0.2 %	0.5 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0040 ppm	0.0013 ppm	5.2983 [SIC 20]	455.9231 ppm	10.4775 [SIC 20]	52.8453 ppm	0.0079 ppm
Concentration per Run 1	0.0043 ppm	0.0014 ppm	5.2729 ppm	457.2929 ppm	10.4241 ppm	52.7166 ppm	0.0072 ppm
Concentration per Run 2	0.0050 ppm	0.0013 ppm	5.2844 ppm	457.9133 ppm	10.5499 ppm	53.2300 ppm	0.0066 ppm
Concentration per Run 3	0.0026 ppm	0.0011 ppm	5.3375 ppm	452.5630 ppm	10.4587 ppm	52.5895 ppm	0.0098 ppm
Recovery Percentage 1		0.000 %	105.965 %	91.185 %	104.775 %	105.691 %	0.000 %
Concentration RSD	31.1 %	11.5 %	0.7 %	0.6 %	0.6 %	0.6 %	21.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0010 ppm	21.2774 [SIC 200]	0.0025 ppm	0.0022 ppm	0.0113 ppm	-0.0294 ppm	0.0005 ppm
Concentration per Run 1	0.0021 ppm	21.2461 ppm	0.0028 ppm	0.0022 ppm	0.0123 ppm	-0.0298 ppm	0.0007 ppm
Concentration per Run 2	0.0013 ppm	21.2553 ppm	0.0026 ppm	0.0022 ppm	0.0112 ppm	-0.0298 ppm	0.0007 ppm
Concentration per Run 3	-0.0005 ppm	21.3308 ppm	0.0022 ppm	0.0022 ppm	0.0103 ppm	-0.0285 ppm	0.0001 ppm
Recovery Percentage 1	0.000 %	106.387 %	0.000 %	0.000 %	0.000 %	0.000 %	0.000 %
Concentration RSD	139.3 %	0.2 %	11.6 %	0.6 %	8.6 %	2.4 %	65.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	21.1243 [SIC 50]	87.2473 %	95.2772 %	78.9516 %	84.7669 %	93.4079 %	81.4069 %
Concentration per Run 1	20.9461 ppm	88.2773 %	94.1086 %	78.9991 %	85.6759 %	92.3277 %	81.3466 %
Concentration per Run 2	21.2185 ppm	86.9919 %	95.8409 %	78.6100 %	84.7469 %	94.4332 %	81.3446 %
Concentration per Run 3	21.2083 ppm	86.4727 %	95.8820 %	79.2456 %	83.8780 %	93.4629 %	81.5295 %
Recovery Percentage 1	105.622 %						
Concentration RSD	0.7 %	1.1 %	1.1 %	0.4 %	1.1 %	1.1 %	0.1 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: CCV
Analysis started at: 6/27/2025 10:20:59 AM
Rack: 0
Vial: 3
Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.5369 ppm	0.4904 ppm	0.4769 ppm	0.5025 ppm	0.5003 ppm	0.5064 ppm	0.5081 ppm
Concentration per Run 1	0.5380 ppm	0.4897 ppm	0.4784 ppm	0.5004 ppm	0.5017 ppm	0.5066 ppm	0.5095 ppm
Concentration per Run 2	0.5385 ppm	0.4925 ppm	0.4749 ppm	0.4996 ppm	0.4996 ppm	0.5065 ppm	0.5048 ppm
Concentration per Run 3	0.5342 ppm	0.4891 ppm	0.4774 ppm	0.5075 ppm	0.4997 ppm	0.5061 ppm	0.5099 ppm
Recovery Percentage 1	107.383 %	98.087 %	95.378 %	100.503 %	100.065 %	101.282 %	101.616 %
Concentration RSD	0.4 %	0.4 %	0.4 %	0.9 %	0.2 %	0.1 %	0.6 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.4781 ppm	0.5049 ppm	0.5213 ppm	0.5074 ppm	0.5076 ppm	5.1938 ppm	0.5217 ppm
Concentration per Run 1	0.4768 ppm	0.5035 ppm	0.5224 ppm	0.5066 ppm	0.5052 ppm	5.1930 ppm	0.5227 ppm
Concentration per Run 2	0.4780 ppm	0.5059 ppm	0.5195 ppm	0.5112 ppm	0.5072 ppm	5.1797 ppm	0.5186 ppm
Concentration per Run 3	0.4795 ppm	0.5053 ppm	0.5219 ppm	0.5043 ppm	0.5105 ppm	5.2087 ppm	0.5238 ppm
Recovery Percentage 1	95.616 %	100.985 %	104.259 %	101.471 %	101.527 %	103.876 %	104.338 %
Concentration RSD	0.3 %	0.2 %	0.3 %	0.7 %	0.5 %	0.3 %	0.5 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.5204 ppm	0.5056 ppm	0.5112 ppm	10.3105 ppm	0.5267 ppm	0.5107 ppm	0.5005 ppm
Concentration per Run 1	0.5188 ppm	0.5033 ppm	0.5098 ppm	10.2701 ppm	0.5286 ppm	0.5112 ppm	0.5002 ppm
Concentration per Run 2	0.5225 ppm	0.5062 ppm	0.5108 ppm	10.2401 ppm	0.5244 ppm	0.5107 ppm	0.5020 ppm
Concentration per Run 3	0.5200 ppm	0.5074 ppm	0.5132 ppm	10.4214 ppm	0.5270 ppm	0.5102 ppm	0.4992 ppm
Recovery Percentage 1	104.089 %	101.124 %	102.250 %	103.105 %	105.334 %	102.133 %	100.094 %
Concentration RSD	0.4 %	0.4 %	0.3 %	0.9 %	0.4 %	0.1 %	0.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.4881 ppm	5.4470 ppm	0.5152 ppm	0.5076 ppm	0.5176 ppm	0.5150 ppm	0.4966 ppm
Concentration per Run 1	0.4887 ppm	5.4490 ppm	0.5122 ppm	0.5092 ppm	0.5175 ppm	0.5146 ppm	0.4953 ppm
Concentration per Run 2	0.4883 ppm	5.4596 ppm	0.5143 ppm	0.5078 ppm	0.5178 ppm	0.5159 ppm	0.4990 ppm
Concentration per Run 3	0.4873 ppm	5.4325 ppm	0.5192 ppm	0.5059 ppm	0.5176 ppm	0.5146 ppm	0.4956 ppm
Recovery Percentage 1	97.616 %	103.753 %	103.045 %	101.528 %	103.529 %	103.003 %	99.322 %
Concentration RSD	0.1 %	0.3 %	0.7 %	0.3 %	0.0 %	0.1 %	0.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5135 ppm	99.4918 %	98.7750 %	97.3380 %	97.4673 %	97.5833 %	96.2087 %
Concentration per Run 1	0.5118 ppm	99.6961 %	98.0517 %	97.5847 %	97.9914 %	96.9110 %	96.6473 %
Concentration per Run 2	0.5102 ppm	99.9945 %	98.8686 %	97.3564 %	97.4931 %	97.2918 %	96.0280 %
Concentration per Run 3	0.5184 ppm	98.7848 %	99.4048 %	97.0731 %	96.9175 %	98.5470 %	95.9506 %
Recovery Percentage 1	102.696 %						
Concentration RSD	0.8 %	0.6 %	0.7 %	0.3 %	0.6 %	0.9 %	0.4 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: CCB
 Analysis started at: 6/27/2025 10:24:22 AM
 Rack: 0
 Vial: 4
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0002 ppm	0.0030 ppm	0.0001 ppm	-0.0005 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 1	0.0002 ppm	0.0042 ppm	-0.0004 ppm	0.0004 ppm	0.0001 ppm	0.0000 ppm	-0.0009 ppm
Concentration per Run 2	0.0000 ppm	0.0030 ppm	0.0005 ppm	-0.0009 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 3	0.0004 ppm	0.0019 ppm	0.0001 ppm	-0.0010 ppm	0.0000 ppm	0.0000 ppm	0.0008 ppm
Recovery Percentage 1	3.250 %	3.037 %	1.280 %	-1.707 %	0.575 %	0.631 %	0.003 %
Concentration RSD	75.3 %	38.5 %	648.1 %	158.1 %	61.0 %	50.5 %	26,323.4 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0001 ppm	0.0003 ppm	0.0004 ppm	0.0003 ppm	0.0004 ppm	0.0041 ppm	0.0006 ppm
Concentration per Run 1	0.0001 ppm	0.0002 ppm	0.0000 ppm	0.0004 ppm	0.0010 ppm	0.0123 ppm	0.0003 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0005 ppm	0.0003 ppm	0.0004 ppm	0.0012 ppm	0.0011 ppm
Concentration per Run 3	0.0001 ppm	0.0006 ppm	0.0006 ppm	0.0002 ppm	-0.0001 ppm	-0.0011 ppm	0.0004 ppm
Recovery Percentage 1	1.695 %	1.388 %	3.721 %	3.017 %	0.852 %	0.165 %	11.771 %
Concentration RSD	37.3 %	113.4 %	93.6 %	33.7 %	121.5 %	173.1 %	79.8 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0004 ppm	0.0002 ppm	0.0028 ppm	0.0039 ppm	0.0002 ppm	0.0002 ppm	0.0011 ppm
Concentration per Run 1	0.0016 ppm	0.0003 ppm	0.0030 ppm	0.0056 ppm	0.0000 ppm	0.0004 ppm	0.0017 ppm
Concentration per Run 2	0.0007 ppm	0.0000 ppm	0.0028 ppm	0.0045 ppm	-0.0002 ppm	0.0006 ppm	0.0010 ppm
Concentration per Run 3	-0.0011 ppm	0.0003 ppm	0.0026 ppm	0.0015 ppm	0.0010 ppm	-0.0003 ppm	0.0006 ppm
Recovery Percentage 1	0.424 %	2.099 %	5.629 %	0.194 %	0.947 %	2.164 %	2.247 %
Concentration RSD	322.2 %	78.9 %	6.9 %	55.2 %	268.6 %	217.3 %	50.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0005 ppm	0.0029 ppm	-0.0004 ppm	0.0000 ppm	0.0003 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 1	0.0003 ppm	0.0027 ppm	-0.0003 ppm	0.0000 ppm	0.0003 ppm	0.0001 ppm	0.0002 ppm
Concentration per Run 2	-0.0013 ppm	0.0020 ppm	0.0001 ppm	0.0000 ppm	0.0004 ppm	0.0003 ppm	0.0001 ppm
Concentration per Run 3	-0.0005 ppm	0.0040 ppm	-0.0012 ppm	0.0000 ppm	0.0002 ppm	-0.0003 ppm	0.0002 ppm
Recovery Percentage 1	-5.027 %	0.579 %	-0.861 %	0.087 %	2.870 %	0.050 %	1.449 %
Concentration RSD	152.3 %	34.9 %	154.3 %	89.9 %	22.8 %	3,040.0 %	56.0 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0006 ppm	98.0069 %	99.2114 %	97.4506 %	98.3816 %	99.2346 %	98.1129 %
Concentration per Run 1	-0.0006 ppm	97.5152 %	100.2261 %	98.2775 %	98.1653 %	99.6801 %	98.9516 %
Concentration per Run 2	-0.0005 ppm	97.9027 %	97.5000 %	96.7099 %	97.6795 %	97.6683 %	97.3459 %
Concentration per Run 3	-0.0006 ppm	98.6028 %	99.9080 %	97.3645 %	99.3000 %	100.3553 %	98.0412 %
Recovery Percentage 1	-11.736 %						
Concentration RSD	6.4 %	0.6 %	1.5 %	0.8 %	0.8 %	1.4 %	0.8 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: LDR As 5
 Analysis started at: 6/27/2025 10:28:03 AM
 Rack: 1
 Vial: 4
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0005 ppm	0.0041 ppm	4.7971 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0017 ppm
Concentration per Run 1	0.0004 ppm	0.0080 ppm	4.7789 ppm	-0.0010 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 2	0.0005 ppm	0.0057 ppm	4.7990 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0026 ppm
Concentration per Run 3	0.0008 ppm	-0.0012 ppm	4.8133 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0024 ppm
Concentration RSD	33.1 %	115.9 %	0.4 %	286.7 %	1,172.4 %	119.6 %	85.8 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0001 ppm	0.0014 ppm	0.0023 ppm	0.0001 ppm
Concentration per Run 1	0.0000 ppm	0.0003 ppm	0.0002 ppm	0.0000 ppm	0.0008 ppm	0.0061 ppm	0.0001 ppm
Concentration per Run 2	0.0000 ppm	-0.0002 ppm	0.0002 ppm	0.0002 ppm	0.0015 ppm	0.0059 ppm	0.0000 ppm
Concentration per Run 3	-0.0001 ppm	0.0002 ppm	0.0002 ppm	0.0002 ppm	0.0018 ppm	-0.0050 ppm	0.0002 ppm
Concentration RSD	227.5 %	241.4 %	16.2 %	93.8 %	37.3 %	272.3 %	119.1 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0012 ppm	0.0002 ppm	0.0010 ppm	0.0067 ppm	0.0007 ppm	0.0004 ppm	0.0065 ppm
Concentration per Run 1	0.0012 ppm	0.0003 ppm	0.0011 ppm	0.0063 ppm	0.0006 ppm	0.0001 ppm	0.0062 ppm
Concentration per Run 2	0.0014 ppm	0.0001 ppm	0.0008 ppm	0.0057 ppm	0.0007 ppm	0.0007 ppm	0.0061 ppm
Concentration per Run 3	0.0010 ppm	0.0001 ppm	0.0010 ppm	0.0081 ppm	0.0007 ppm	0.0004 ppm	0.0070 ppm
Concentration RSD	16.9 %	59.0 %	15.1 %	19.2 %	12.0 %	74.3 %	7.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0004 ppm	-0.0014 ppm	-0.0002 ppm	0.0000 ppm	0.0003 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 1	0.0001 ppm	-0.0006 ppm	-0.0010 ppm	0.0000 ppm	0.0003 ppm	0.0002 ppm	0.0000 ppm
Concentration per Run 2	-0.0007 ppm	-0.0029 ppm	0.0001 ppm	0.0000 ppm	0.0004 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 3	-0.0006 ppm	-0.0006 ppm	0.0002 ppm	-0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0001 ppm
Concentration RSD	111.4 %	96.2 %	297.8 %	61.0 %	48.4 %	52.1 %	60.0 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0007 ppm	100.5818 %	100.9825 %	101.0775 %	99.1746 %	99.7678 %	99.5280 %
Concentration per Run 1	-0.0008 ppm	100.0197 %	100.4195 %	100.4245 %	99.5508 %	99.3430 %	98.6790 %
Concentration per Run 2	-0.0007 ppm	100.4844 %	100.5918 %	101.9451 %	99.1647 %	99.2958 %	100.2217 %
Concentration per Run 3	-0.0007 ppm	101.2413 %	101.9363 %	100.8627 %	98.8083 %	100.6646 %	99.6832 %
Concentration RSD	6.6 %	0.6 %	0.8 %	0.8 %	0.4 %	0.8 %	0.8 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2536019-01d2 WG2082496
 Analysis started at: 6/27/2025 10:31:14 AM
 Rack: 1
 Vial: 1
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0018 ppm	49.9040 ppm	0.2422 ppm	0.1449 ppm	0.5613 ppm	0.0025 ppm	101.3691 ppm
Concentration per Run 1	0.0015 ppm	49.7261 ppm	0.2426 ppm	0.1435 ppm	0.5594 ppm	0.0025 ppm	101.2931 ppm
Concentration per Run 2	0.0022 ppm	49.9023 ppm	0.2425 ppm	0.1451 ppm	0.5630 ppm	0.0025 ppm	100.9652 ppm
Concentration per Run 3	0.0019 ppm	50.0836 ppm	0.2416 ppm	0.1462 ppm	0.5616 ppm	0.0025 ppm	101.8489 ppm
Concentration RSD	18.3 %	0.4 %	0.2 %	1.0 %	0.3 %	0.4 %	0.4 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0133 ppm	0.0731 ppm	0.4195 ppm	0.7344 ppm	281.8826 ppm	6.0075 ppm	0.1053 ppm
Concentration per Run 1	0.0134 ppm	0.0735 ppm	0.4180 ppm	0.7351 ppm	280.4302 ppm	5.9754 ppm	0.1051 ppm
Concentration per Run 2	0.0133 ppm	0.0729 ppm	0.4215 ppm	0.7334 ppm	283.7141 ppm	6.0362 ppm	0.1057 ppm
Concentration per Run 3	0.0131 ppm	0.0730 ppm	0.4189 ppm	0.7348 ppm	281.5034 ppm	6.0108 ppm	0.1051 ppm
Concentration RSD	1.2 %	0.4 %	0.4 %	0.1 %	0.6 %	0.5 %	0.3 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	23.6732 ppm	2.3436 ppm	0.0411 ppm	4.8986 ppm	0.3396 ppm	1.2781 ppm	0.0079 ppm
Concentration per Run 1	23.7216 ppm	2.3528 ppm	0.0404 ppm	4.8801 ppm	0.3401 ppm	1.2795 ppm	0.0060 ppm
Concentration per Run 2	23.6685 ppm	2.3345 ppm	0.0415 ppm	4.8762 ppm	0.3403 ppm	1.2712 ppm	0.0090 ppm
Concentration per Run 3	23.6296 ppm	2.3436 ppm	0.0414 ppm	4.9394 ppm	0.3382 ppm	1.2837 ppm	0.0088 ppm
Concentration RSD	0.2 %	0.4 %	1.4 %	0.7 %	0.3 %	0.5 %	20.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0037 ppm	6.6295 ppm	0.0918 ppm	0.4071 ppm	2.2930 ppm	0.0000 ppm	0.2560 ppm
Concentration per Run 1	0.0019 ppm	6.6263 ppm	0.0920 ppm	0.4063 ppm	2.2882 ppm	-0.0005 ppm	0.2566 ppm
Concentration per Run 2	0.0045 ppm	6.6356 ppm	0.0913 ppm	0.4079 ppm	2.2984 ppm	0.0005 ppm	0.2557 ppm
Concentration per Run 3	0.0046 ppm	6.6267 ppm	0.0921 ppm	0.4070 ppm	2.2924 ppm	0.0000 ppm	0.2556 ppm
Concentration RSD	41.8 %	0.1 %	0.5 %	0.2 %	0.2 %	3,024.6 %	0.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	9.2698 ppm	95.7931 %	98.8614 %	85.0705 %	104.9997 %	109.2733 %	103.3118 %
Concentration per Run 1	9.2751 ppm	96.0609 %	99.2605 %	85.6536 %	105.2920 %	109.4811 %	104.0436 %
Concentration per Run 2	9.2968 ppm	95.5744 %	99.1254 %	85.1893 %	104.8695 %	109.3085 %	103.2975 %
Concentration per Run 3	9.2376 ppm	95.7441 %	98.1984 %	84.3686 %	104.8376 %	109.0301 %	102.5944 %
Concentration RSD	0.3 %	0.3 %	0.6 %	0.8 %	0.2 %	0.2 %	0.7 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2536136-01d2 WG2082496
 Analysis started at: 6/27/2025 10:34:25 AM
 Rack: 1
 Vial: 2
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0009 ppm	102.5686 ppm	0.0394 ppm	0.0106 ppm	0.5263 ppm	0.0038 ppm	22.5424 ppm
Concentration per Run 1	-0.0010 ppm	102.1915 ppm	0.0398 ppm	0.0106 ppm	0.5258 ppm	0.0038 ppm	22.5213 ppm
Concentration per Run 2	-0.0008 ppm	102.8994 ppm	0.0397 ppm	0.0120 ppm	0.5266 ppm	0.0039 ppm	22.6237 ppm
Concentration per Run 3	-0.0010 ppm	102.6149 ppm	0.0386 ppm	0.0093 ppm	0.5264 ppm	0.0037 ppm	22.4823 ppm
Concentration RSD	13.9 %	0.3 %	1.8 %	12.8 %	0.1 %	2.1 %	0.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0023 ppm	0.0648 ppm	0.1333 ppm	0.1808 ppm	127.9768 ppm	8.9616 ppm	0.1097 ppm
Concentration per Run 1	0.0024 ppm	0.0652 ppm	0.1340 ppm	0.1813 ppm	128.0498 ppm	8.8791 ppm	0.1086 ppm
Concentration per Run 2	0.0022 ppm	0.0643 ppm	0.1330 ppm	0.1801 ppm	128.0632 ppm	9.0160 ppm	0.1105 ppm
Concentration per Run 3	0.0023 ppm	0.0649 ppm	0.1329 ppm	0.1811 ppm	127.8174 ppm	8.9898 ppm	0.1099 ppm
Concentration RSD	3.9 %	0.7 %	0.5 %	0.3 %	0.1 %	0.8 %	0.9 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	31.2794 ppm	1.0314 ppm	0.0148 ppm	1.0885 ppm	0.0973 ppm	0.5582 ppm	-0.0016 ppm
Concentration per Run 1	31.3533 ppm	1.0316 ppm	0.0147 ppm	1.0809 ppm	0.0970 ppm	0.5564 ppm	-0.0023 ppm
Concentration per Run 2	31.2389 ppm	1.0319 ppm	0.0144 ppm	1.0922 ppm	0.0977 ppm	0.5592 ppm	-0.0027 ppm
Concentration per Run 3	31.2461 ppm	1.0305 ppm	0.0153 ppm	1.0925 ppm	0.0972 ppm	0.5589 ppm	0.0001 ppm
Concentration RSD	0.2 %	0.1 %	3.2 %	0.6 %	0.4 %	0.3 %	90.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0076 ppm	12.0732 ppm	0.0171 ppm	0.1147 ppm	5.8911 ppm	-0.0010 ppm	0.2015 ppm
Concentration per Run 1	0.0073 ppm	12.1019 ppm	0.0176 ppm	0.1146 ppm	5.9119 ppm	-0.0026 ppm	0.2016 ppm
Concentration per Run 2	0.0095 ppm	12.0927 ppm	0.0166 ppm	0.1151 ppm	5.8822 ppm	0.0008 ppm	0.2010 ppm
Concentration per Run 3	0.0060 ppm	12.0250 ppm	0.0170 ppm	0.1145 ppm	5.8794 ppm	-0.0012 ppm	0.2018 ppm
Concentration RSD	23.6 %	0.3 %	3.0 %	0.3 %	0.3 %	168.9 %	0.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5117 ppm	98.3574 %	101.5240 %	89.9491 %	115.0972 %	118.8498 %	114.4993 %
Concentration per Run 1	0.5147 ppm	98.3987 %	102.1074 %	90.7541 %	115.2087 %	119.4040 %	115.4272 %
Concentration per Run 2	0.5110 ppm	98.4374 %	100.5612 %	89.6847 %	115.5186 %	117.9020 %	113.8979 %
Concentration per Run 3	0.5094 ppm	98.2361 %	101.9034 %	89.4084 %	114.5642 %	119.2434 %	114.1729 %
Concentration RSD	0.5 %	0.1 %	0.8 %	0.8 %	0.4 %	0.7 %	0.7 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2536136-02d2 WG2082496
 Analysis started at: 6/27/2025 10:37:35 AM
 Rack: 1
 Vial: 3
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0014 ppm	102.2626 ppm	0.0827 ppm	0.0501 ppm	0.8482 ppm	0.0036 ppm	320.3521 ppm
Concentration per Run 1	-0.0014 ppm	102.3730 ppm	0.0834 ppm	0.0494 ppm	0.8498 ppm	0.0036 ppm	319.6878 ppm
Concentration per Run 2	-0.0014 ppm	101.7687 ppm	0.0811 ppm	0.0487 ppm	0.8471 ppm	0.0035 ppm	320.6097 ppm
Concentration per Run 3	-0.0014 ppm	102.6461 ppm	0.0835 ppm	0.0522 ppm	0.8476 ppm	0.0036 ppm	320.7588 ppm
Concentration RSD	2.1 %	0.4 %	1.6 %	3.7 %	0.2 %	2.2 %	0.2 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0022 ppm	0.0640 ppm	0.1272 ppm	0.1925 ppm	148.4305 ppm	14.9906 ppm	0.1258 ppm
Concentration per Run 1	0.0023 ppm	0.0638 ppm	0.1272 ppm	0.1930 ppm	148.2486 ppm	15.0117 ppm	0.1255 ppm
Concentration per Run 2	0.0023 ppm	0.0638 ppm	0.1259 ppm	0.1923 ppm	148.6166 ppm	14.9332 ppm	0.1261 ppm
Concentration per Run 3	0.0021 ppm	0.0643 ppm	0.1285 ppm	0.1922 ppm	148.4263 ppm	15.0267 ppm	0.1258 ppm
Concentration RSD	4.8 %	0.4 %	1.0 %	0.2 %	0.1 %	0.3 %	0.2 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	40.5140 ppm	1.7911 ppm	0.0065 ppm	2.0185 ppm	0.1050 ppm	0.8009 ppm	-0.0015 ppm
Concentration per Run 1	40.4881 ppm	1.7920 ppm	0.0062 ppm	2.0224 ppm	0.1045 ppm	0.8036 ppm	-0.0012 ppm
Concentration per Run 2	40.3084 ppm	1.7861 ppm	0.0066 ppm	2.0047 ppm	0.1048 ppm	0.7994 ppm	-0.0017 ppm
Concentration per Run 3	40.7454 ppm	1.7951 ppm	0.0068 ppm	2.0284 ppm	0.1056 ppm	0.7996 ppm	-0.0016 ppm
Concentration RSD	0.5 %	0.3 %	5.1 %	0.6 %	0.6 %	0.3 %	19.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0039 ppm	35.7263 [SIC 200]	0.0367 ppm	0.6943 ppm	6.1540 ppm	-0.0008 ppm	0.2016 ppm
Concentration per Run 1	0.0032 ppm	35.7642 ppm	0.0367 ppm	0.6953 ppm	6.1609 ppm	-0.0007 ppm	0.2013 ppm
Concentration per Run 2	0.0045 ppm	35.3686 ppm	0.0378 ppm	0.6908 ppm	6.1157 ppm	-0.0015 ppm	0.2021 ppm
Concentration per Run 3	0.0041 ppm	36.0460 ppm	0.0356 ppm	0.6969 ppm	6.1853 ppm	-0.0002 ppm	0.2012 ppm
Concentration RSD	17.6 %	1.0 %	3.0 %	0.5 %	0.6 %	79.6 %	0.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7367 ppm	92.7284 %	97.9667 %	80.8176 %	111.4390 %	117.8614 %	110.0494 %
Concentration per Run 1	0.7351 ppm	92.7112 %	98.0297 %	80.9057 %	111.2327 %	117.6665 %	110.2036 %
Concentration per Run 2	0.7336 ppm	92.6773 %	97.6726 %	80.7422 %	111.0205 %	117.4797 %	109.9477 %
Concentration per Run 3	0.7415 ppm	92.7968 %	98.1977 %	80.8048 %	112.0638 %	118.4381 %	109.9970 %
Concentration RSD	0.6 %	0.1 %	0.3 %	0.1 %	0.5 %	0.4 %	0.1 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: CCV
Analysis started at: 6/27/2025 10:40:46 AM
Rack: 0
Vial: 3
Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.5338 ppm	0.4888 ppm	0.4763 ppm	0.5007 ppm	0.4993 ppm	0.5050 ppm	0.5104 ppm
Concentration per Run 1	0.5335 ppm	0.4893 ppm	0.4760 ppm	0.5042 ppm	0.4992 ppm	0.5058 ppm	0.5135 ppm
Concentration per Run 2	0.5348 ppm	0.4919 ppm	0.4769 ppm	0.4989 ppm	0.5001 ppm	0.5039 ppm	0.5114 ppm
Concentration per Run 3	0.5332 ppm	0.4852 ppm	0.4759 ppm	0.4989 ppm	0.4987 ppm	0.5052 ppm	0.5062 ppm
Recovery Percentage 1	106.760 %	97.763 %	95.254 %	100.133 %	99.864 %	100.995 %	102.071 %
Concentration RSD	0.2 %	0.7 %	0.1 %	0.6 %	0.1 %	0.2 %	0.7 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.4834 ppm	0.5036 ppm	0.5215 ppm	0.4970 ppm	0.5153 ppm	5.1252 ppm	0.5168 ppm
Concentration per Run 1	0.4839 ppm	0.5037 ppm	0.5219 ppm	0.4969 ppm	0.5172 ppm	5.1563 ppm	0.5185 ppm
Concentration per Run 2	0.4828 ppm	0.5036 ppm	0.5220 ppm	0.4974 ppm	0.5136 ppm	5.1163 ppm	0.5143 ppm
Concentration per Run 3	0.4835 ppm	0.5036 ppm	0.5205 ppm	0.4968 ppm	0.5152 ppm	5.1030 ppm	0.5175 ppm
Recovery Percentage 1	96.675 %	100.726 %	104.298 %	99.409 %	103.069 %	102.505 %	103.354 %
Concentration RSD	0.1 %	0.0 %	0.2 %	0.1 %	0.4 %	0.5 %	0.4 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.5224 ppm	0.5003 ppm	0.5079 ppm	10.1401 ppm	0.5244 ppm	0.5076 ppm	0.4889 ppm
Concentration per Run 1	0.5229 ppm	0.5012 ppm	0.5090 ppm	10.1225 ppm	0.5268 ppm	0.5052 ppm	0.4907 ppm
Concentration per Run 2	0.5238 ppm	0.5012 ppm	0.5073 ppm	10.1727 ppm	0.5239 ppm	0.5094 ppm	0.4862 ppm
Concentration per Run 3	0.5205 ppm	0.4985 ppm	0.5075 ppm	10.1251 ppm	0.5225 ppm	0.5083 ppm	0.4897 ppm
Recovery Percentage 1	104.484 %	100.060 %	101.587 %	101.401 %	104.878 %	101.528 %	97.774 %
Concentration RSD	0.3 %	0.3 %	0.2 %	0.3 %	0.4 %	0.4 %	0.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.4858 ppm	5.4184 ppm	0.5140 ppm	0.5051 ppm	0.5215 ppm	0.5104 ppm	0.4918 ppm
Concentration per Run 1	0.4846 ppm	5.4008 ppm	0.5143 ppm	0.5055 ppm	0.5229 ppm	0.5100 ppm	0.4916 ppm
Concentration per Run 2	0.4831 ppm	5.4335 ppm	0.5153 ppm	0.5056 ppm	0.5225 ppm	0.5086 ppm	0.4924 ppm
Concentration per Run 3	0.4897 ppm	5.4208 ppm	0.5123 ppm	0.5043 ppm	0.5192 ppm	0.5126 ppm	0.4915 ppm
Recovery Percentage 1	97.157 %	103.207 %	102.794 %	101.026 %	104.306 %	102.082 %	98.360 %
Concentration RSD	0.7 %	0.3 %	0.3 %	0.1 %	0.4 %	0.4 %	0.1 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5165 ppm	99.7779 %	100.4678 %	97.0543 %	98.6916 %	99.1633 %	96.8540 %
Concentration per Run 1	0.5182 ppm	100.0612 %	100.3965 %	97.1860 %	99.1539 %	99.0425 %	97.1783 %
Concentration per Run 2	0.5175 ppm	99.8074 %	100.3634 %	96.8166 %	98.5150 %	99.1731 %	96.5276 %
Concentration per Run 3	0.5139 ppm	99.4652 %	100.6436 %	97.1605 %	98.4058 %	99.2741 %	96.8562 %
Recovery Percentage 1	103.304 %						
Concentration RSD	0.4 %	0.3 %	0.2 %	0.2 %	0.4 %	0.1 %	0.3 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: CCB
Analysis started at: 6/27/2025 10:43:59 AM
Rack: 0
Vial: 4
Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0002 ppm	0.0025 ppm	-0.0006 ppm	0.0007 ppm	0.0000 ppm	0.0000 ppm	0.0019 ppm
Concentration per Run 1	0.0003 ppm	0.0007 ppm	-0.0016 ppm	-0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0037 ppm
Concentration per Run 2	0.0004 ppm	0.0048 ppm	0.0000 ppm	0.0008 ppm	0.0000 ppm	0.0000 ppm	-0.0006 ppm
Concentration per Run 3	0.0001 ppm	0.0020 ppm	-0.0003 ppm	0.0020 ppm	0.0000 ppm	0.0001 ppm	0.0025 ppm
Recovery Percentage 1	3.535 %	2.496 %	-12.877 %	2.464 %	0.218 %	1.107 %	1.890 %
Concentration RSD	62.4 %	84.0 %	132.9 %	176.2 %	63.1 %	32.0 %	116.4 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0001 ppm	0.0002 ppm	0.0004 ppm	0.0002 ppm	0.0032 ppm	0.0071 ppm	0.0001 ppm
Concentration per Run 1	0.0001 ppm	-0.0002 ppm	0.0003 ppm	0.0003 ppm	0.0029 ppm	0.0102 ppm	-0.0002 ppm
Concentration per Run 2	0.0001 ppm	0.0006 ppm	0.0003 ppm	0.0002 ppm	0.0036 ppm	0.0121 ppm	0.0003 ppm
Concentration per Run 3	0.0001 ppm	0.0002 ppm	0.0007 ppm	0.0002 ppm	0.0030 ppm	-0.0010 ppm	0.0000 ppm
Recovery Percentage 1	2.240 %	0.935 %	4.084 %	2.056 %	6.374 %	0.284 %	1.141 %
Concentration RSD	21.3 %	207.8 %	56.0 %	28.4 %	12.1 %	99.3 %	384.6 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0003 ppm	0.0003 ppm	0.0024 ppm	0.0007 ppm	0.0002 ppm	0.0000 ppm	0.0005 ppm
Concentration per Run 1	-0.0007 ppm	0.0003 ppm	0.0027 ppm	0.0012 ppm	0.0006 ppm	-0.0005 ppm	-0.0021 ppm
Concentration per Run 2	-0.0003 ppm	0.0003 ppm	0.0025 ppm	0.0022 ppm	0.0000 ppm	-0.0004 ppm	0.0010 ppm
Concentration per Run 3	0.0021 ppm	0.0002 ppm	0.0020 ppm	-0.0012 ppm	0.0002 ppm	0.0009 ppm	0.0027 ppm
Recovery Percentage 1	0.350 %	2.658 %	4.780 %	0.036 %	0.901 %	-0.038 %	1.082 %
Concentration RSD	425.7 %	21.2 %	15.0 %	243.9 %	136.2 %	20,096.3 %	446.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0000 ppm	0.0106 ppm	-0.0003 ppm	0.0000 ppm	0.0005 ppm	-0.0002 ppm	-0.0001 ppm
Concentration per Run 1	0.0021 ppm	0.0101 ppm	-0.0007 ppm	0.0000 ppm	0.0007 ppm	-0.0009 ppm	-0.0001 ppm
Concentration per Run 2	-0.0024 ppm	0.0117 ppm	0.0004 ppm	0.0000 ppm	0.0004 ppm	0.0007 ppm	0.0000 ppm
Concentration per Run 3	0.0003 ppm	0.0100 ppm	-0.0004 ppm	0.0000 ppm	0.0004 ppm	-0.0004 ppm	-0.0001 ppm
Recovery Percentage 1	0.119 %	2.125 %	-0.519 %	0.006 %	4.792 %	-1.022 %	-0.622 %
Concentration RSD	19,022.3 %	8.8 %	215.3 %	6,588.4 %	33.1 %	415.4 %	49.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0004 ppm	98.4133 %	99.3356 %	97.9531 %	99.4971 %	99.6815 %	98.4874 %
Concentration per Run 1	-0.0003 ppm	98.1597 %	99.2417 %	98.4895 %	99.2602 %	99.1039 %	99.0548 %
Concentration per Run 2	-0.0005 ppm	98.0978 %	100.1530 %	97.3496 %	98.8505 %	100.2772 %	97.8492 %
Concentration per Run 3	-0.0004 ppm	98.9824 %	98.6121 %	98.0204 %	100.3807 %	99.6634 %	98.5581 %
Recovery Percentage 1	-8.086 %						
Concentration RSD	16.2 %	0.5 %	0.8 %	0.6 %	0.8 %	0.6 %	0.6 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: WG2084202-1 WG2084202
 Analysis started at: 6/27/2025 11:01:45 AM
 Rack: 1
 Vial: 5
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0001 ppm	0.0044 ppm	-0.0001 ppm	0.0023 ppm	0.0001 ppm	0.0000 ppm	0.0062 ppm
Concentration per Run 1	0.0005 ppm	-0.0007 ppm	0.0003 ppm	0.0020 ppm	0.0001 ppm	0.0000 ppm	0.0069 ppm
Concentration per Run 2	0.0000 ppm	0.0062 ppm	-0.0020 ppm	0.0022 ppm	0.0002 ppm	0.0000 ppm	0.0063 ppm
Concentration per Run 3	-0.0001 ppm	0.0077 ppm	0.0013 ppm	0.0028 ppm	0.0001 ppm	0.0000 ppm	0.0052 ppm
Concentration RSD	238.2 %	102.3 %	1,476.3 %	17.4 %	9.8 %	147.0 %	13.7 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0005 ppm	0.0004 ppm	0.0015 ppm	0.0439 ppm	0.0007 ppm
Concentration per Run 1	0.0001 ppm	-0.0004 ppm	0.0005 ppm	0.0005 ppm	0.0025 ppm	0.0509 ppm	0.0010 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0008 ppm	0.0004 ppm	0.0014 ppm	0.0404 ppm	0.0007 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0002 ppm	0.0005 ppm	0.0007 ppm	0.0403 ppm	0.0003 ppm
Concentration RSD	225.4 %	74.9 %	60.6 %	13.3 %	60.6 %	13.9 %	54.2 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0022 ppm	0.0001 ppm	0.0001 ppm	131.6772 ppm	0.0000 ppm	0.0005 ppm	0.0012 ppm
Concentration per Run 1	0.0011 ppm	0.0001 ppm	0.0000 ppm	131.7919 ppm	0.0006 ppm	0.0007 ppm	0.0018 ppm
Concentration per Run 2	0.0018 ppm	0.0001 ppm	0.0000 ppm	131.5458 ppm	0.0000 ppm	0.0006 ppm	-0.0005 ppm
Concentration per Run 3	0.0037 ppm	0.0002 ppm	0.0003 ppm	131.6937 ppm	-0.0005 ppm	0.0002 ppm	0.0023 ppm
Concentration RSD	60.3 %	34.2 %	132.7 %	0.1 %	1,684.4 %	48.1 %	126.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0008 ppm	0.0479 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0010 ppm	0.0001 ppm
Concentration per Run 1	0.0017 ppm	0.0489 ppm	0.0007 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 2	-0.0004 ppm	0.0483 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0013 ppm	0.0000 ppm
Concentration per Run 3	0.0011 ppm	0.0465 ppm	-0.0006 ppm	0.0000 ppm	0.0002 ppm	-0.0016 ppm	0.0000 ppm
Concentration RSD	138.6 %	2.6 %	8,512.5 %	100.1 %	114.9 %	86.8 %	195.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0008 ppm	94.3809 %	96.5581 %	88.5572 %	91.9141 %	94.4588 %	91.5175 %
Concentration per Run 1	-0.0007 ppm	93.6644 %	96.3388 %	88.9918 %	91.2281 %	94.1941 %	92.0880 %
Concentration per Run 2	-0.0007 ppm	95.1184 %	96.4057 %	88.1478 %	92.6202 %	94.4052 %	91.0500 %
Concentration per Run 3	-0.0009 ppm	94.3598 %	96.9298 %	88.5321 %	91.8939 %	94.7771 %	91.4147 %
Concentration RSD	16.0 %	0.8 %	0.3 %	0.5 %	0.8 %	0.3 %	0.6 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: WG2084202-2 WG2084202
 Analysis started at: 6/27/2025 11:05:07 AM
 Rack: 1
 Vial: 6
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0557 ppm	2.1844 ppm	0.1122 ppm	0.9278 ppm	2.1452 ppm	0.0535 ppm	9.5938 ppm
Concentration per Run 1	0.0561 ppm	2.1945 ppm	0.1116 ppm	0.9353 ppm	2.1434 ppm	0.0535 ppm	9.5983 ppm
Concentration per Run 2	0.0559 ppm	2.1838 ppm	0.1140 ppm	0.9235 ppm	2.1547 ppm	0.0537 ppm	9.5966 ppm
Concentration per Run 3	0.0551 ppm	2.1750 ppm	0.1111 ppm	0.9245 ppm	2.1375 ppm	0.0533 ppm	9.5865 ppm
Concentration RSD	0.9 %	0.4 %	1.4 %	0.7 %	0.4 %	0.3 %	0.1 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0473 ppm	0.5142 ppm	0.2176 ppm	0.2618 ppm	1.0792 ppm	9.8126 ppm	0.0004 ppm
Concentration per Run 1	0.0475 ppm	0.5128 ppm	0.2195 ppm	0.2617 ppm	1.0724 ppm	9.8278 ppm	0.0004 ppm
Concentration per Run 2	0.0473 ppm	0.5153 ppm	0.2187 ppm	0.2607 ppm	1.0858 ppm	9.8433 ppm	0.0004 ppm
Concentration per Run 3	0.0470 ppm	0.5145 ppm	0.2145 ppm	0.2629 ppm	1.0792 ppm	9.7665 ppm	0.0005 ppm
Concentration RSD	0.5 %	0.3 %	1.2 %	0.4 %	0.6 %	0.4 %	18.5 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	9.7742 ppm	0.5287 ppm	0.9786 ppm	10.0534 ppm	0.5419 ppm	0.5153 ppm	0.4638 ppm
Concentration per Run 1	9.8208 ppm	0.5286 ppm	0.9816 ppm	10.0687 ppm	0.5477 ppm	0.5147 ppm	0.4697 ppm
Concentration per Run 2	9.7852 ppm	0.5296 ppm	0.9802 ppm	10.0508 ppm	0.5435 ppm	0.5160 ppm	0.4623 ppm
Concentration per Run 3	9.7165 ppm	0.5279 ppm	0.9741 ppm	10.0406 ppm	0.5344 ppm	0.5151 ppm	0.4594 ppm
Concentration RSD	0.5 %	0.2 %	0.4 %	0.1 %	1.3 %	0.1 %	1.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.1115 ppm	1.1141 ppm	0.9730 ppm	0.9613 ppm	0.9972 ppm	0.1153 ppm	0.5317 ppm
Concentration per Run 1	0.1137 ppm	1.1202 ppm	0.9808 ppm	0.9588 ppm	1.0001 ppm	0.1159 ppm	0.5313 ppm
Concentration per Run 2	0.1106 ppm	1.1163 ppm	0.9691 ppm	0.9658 ppm	1.0008 ppm	0.1146 ppm	0.5318 ppm
Concentration per Run 3	0.1100 ppm	1.1059 ppm	0.9692 ppm	0.9594 ppm	0.9907 ppm	0.1154 ppm	0.5319 ppm
Concentration RSD	1.8 %	0.7 %	0.7 %	0.4 %	0.6 %	0.6 %	0.1 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5338 ppm	97.9512 %	98.6367 %	92.5928 %	96.3961 %	97.4022 %	94.1791 %
Concentration per Run 1	0.5392 ppm	97.3485 %	98.4469 %	92.7032 %	95.8097 %	97.3606 %	94.1305 %
Concentration per Run 2	0.5335 ppm	97.9189 %	98.3702 %	92.2239 %	96.6735 %	97.1423 %	94.1068 %
Concentration per Run 3	0.5288 ppm	98.5861 %	99.0930 %	92.8513 %	96.7050 %	97.7037 %	94.3000 %
Concentration RSD	1.0 %	0.6 %	0.4 %	0.4 %	0.5 %	0.3 %	0.1 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2539013-01 WG2084202
 Analysis started at: 6/27/2025 11:08:19 AM
 Rack: 1
 Vial: 7
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0001 ppm	0.0025 ppm	-0.0006 ppm	-0.0004 ppm	0.0001 ppm	0.0000 ppm	0.0026 ppm
Concentration per Run 1	-0.0004 ppm	0.0037 ppm	-0.0004 ppm	-0.0012 ppm	0.0000 ppm	0.0000 ppm	0.0052 ppm
Concentration per Run 2	-0.0001 ppm	0.0007 ppm	-0.0008 ppm	-0.0009 ppm	0.0001 ppm	0.0000 ppm	0.0025 ppm
Concentration per Run 3	0.0002 ppm	0.0030 ppm	-0.0008 ppm	0.0009 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm
Concentration RSD	228.3 %	64.5 %	38.3 %	274.1 %	88.3 %	501.9 %	96.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	-0.0004 ppm	0.0001 ppm	0.0000 ppm	0.0016 ppm	0.0043 ppm	0.0001 ppm
Concentration per Run 1	0.0001 ppm	-0.0007 ppm	0.0001 ppm	-0.0002 ppm	0.0017 ppm	0.0071 ppm	0.0004 ppm
Concentration per Run 2	0.0001 ppm	-0.0002 ppm	0.0001 ppm	0.0003 ppm	0.0017 ppm	0.0097 ppm	-0.0004 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0002 ppm	-0.0001 ppm	0.0015 ppm	-0.0039 ppm	0.0002 ppm
Concentration RSD	228.3 %	69.5 %	49.2 %	1,623.1 %	5.1 %	167.8 %	510.4 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0022 ppm	0.0001 ppm	0.0031 ppm	0.0063 ppm	-0.0004 ppm	-0.0003 ppm	0.0021 ppm
Concentration per Run 1	0.0025 ppm	0.0002 ppm	0.0030 ppm	0.0089 ppm	-0.0004 ppm	-0.0003 ppm	0.0007 ppm
Concentration per Run 2	0.0032 ppm	0.0001 ppm	0.0031 ppm	0.0021 ppm	-0.0005 ppm	0.0006 ppm	0.0024 ppm
Concentration per Run 3	0.0010 ppm	0.0001 ppm	0.0031 ppm	0.0078 ppm	-0.0002 ppm	-0.0011 ppm	0.0033 ppm
Concentration RSD	50.8 %	40.8 %	2.4 %	57.7 %	44.7 %	296.8 %	61.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0001 ppm	0.0108 ppm	0.0006 ppm	0.0000 ppm	0.0005 ppm	-0.0015 ppm	0.0000 ppm
Concentration per Run 1	-0.0010 ppm	0.0101 ppm	0.0006 ppm	0.0000 ppm	0.0005 ppm	-0.0018 ppm	-0.0001 ppm
Concentration per Run 2	0.0002 ppm	0.0116 ppm	0.0010 ppm	0.0000 ppm	0.0006 ppm	-0.0017 ppm	-0.0001 ppm
Concentration per Run 3	0.0012 ppm	0.0106 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm	-0.0011 ppm	0.0001 ppm
Concentration RSD	866.6 %	7.2 %	89.7 %	470.8 %	37.1 %	25.3 %	662.5 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0008 ppm	97.6798 %	98.1975 %	95.1925 %	98.2111 %	98.4454 %	97.6124 %
Concentration per Run 1	-0.0007 ppm	98.0187 %	98.6669 %	95.5959 %	98.9327 %	98.8571 %	97.9139 %
Concentration per Run 2	-0.0009 ppm	97.9108 %	97.2255 %	95.1326 %	98.2109 %	97.8423 %	97.4291 %
Concentration per Run 3	-0.0009 ppm	97.1100 %	98.7001 %	94.8491 %	97.4897 %	98.6369 %	97.4942 %
Concentration RSD	10.9 %	0.5 %	0.9 %	0.4 %	0.7 %	0.5 %	0.3 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: WG2084202-3 WG2084202
 Analysis started at: 6/27/2025 11:11:31 AM
 Rack: 1
 Vial: 8
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0549 ppm	2.1647 ppm	0.1127 ppm	0.9186 ppm	2.1266 ppm	0.0528 ppm	9.6237 ppm
Concentration per Run 1	0.0547 ppm	2.1831 ppm	0.1128 ppm	0.9196 ppm	2.1410 ppm	0.0531 ppm	9.6975 ppm
Concentration per Run 2	0.0548 ppm	2.1524 ppm	0.1118 ppm	0.9151 ppm	2.1172 ppm	0.0525 ppm	9.5797 ppm
Concentration per Run 3	0.0552 ppm	2.1586 ppm	0.1135 ppm	0.9209 ppm	2.1217 ppm	0.0527 ppm	9.5938 ppm
Concentration RSD	0.4 %	0.8 %	0.8 %	0.3 %	0.6 %	0.6 %	0.7 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0473 ppm	0.5117 ppm	0.2164 ppm	0.2595 ppm	1.0687 ppm	9.8003 ppm	0.0007 ppm
Concentration per Run 1	0.0472 ppm	0.5109 ppm	0.2162 ppm	0.2602 ppm	1.0743 ppm	9.8738 ppm	0.0006 ppm
Concentration per Run 2	0.0475 ppm	0.5113 ppm	0.2157 ppm	0.2598 ppm	1.0635 ppm	9.7682 ppm	0.0006 ppm
Concentration per Run 3	0.0472 ppm	0.5130 ppm	0.2173 ppm	0.2584 ppm	1.0682 ppm	9.7587 ppm	0.0008 ppm
Concentration RSD	0.4 %	0.2 %	0.4 %	0.4 %	0.5 %	0.7 %	12.3 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	9.7821 ppm	0.5238 ppm	0.9824 ppm	10.0423 ppm	0.5426 ppm	0.5136 ppm	0.4635 ppm
Concentration per Run 1	9.7922 ppm	0.5268 ppm	0.9792 ppm	10.0949 ppm	0.5432 ppm	0.5156 ppm	0.4665 ppm
Concentration per Run 2	9.7572 ppm	0.5222 ppm	0.9831 ppm	10.0143 ppm	0.5396 ppm	0.5109 ppm	0.4665 ppm
Concentration per Run 3	9.7968 ppm	0.5224 ppm	0.9850 ppm	10.0177 ppm	0.5449 ppm	0.5143 ppm	0.4575 ppm
Concentration RSD	0.2 %	0.5 %	0.3 %	0.5 %	0.5 %	0.5 %	1.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.1090 ppm	1.1065 ppm	0.9739 ppm	0.9591 ppm	0.9968 ppm	0.1156 ppm	0.5292 ppm
Concentration per Run 1	0.1085 ppm	1.1020 ppm	0.9762 ppm	0.9641 ppm	0.9958 ppm	0.1163 ppm	0.5317 ppm
Concentration per Run 2	0.1061 ppm	1.1095 ppm	0.9673 ppm	0.9562 ppm	0.9954 ppm	0.1151 ppm	0.5297 ppm
Concentration per Run 3	0.1124 ppm	1.1081 ppm	0.9782 ppm	0.9572 ppm	0.9992 ppm	0.1154 ppm	0.5261 ppm
Concentration RSD	2.9 %	0.4 %	0.6 %	0.4 %	0.2 %	0.6 %	0.5 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5332 ppm	98.5107 %	99.0548 %	93.1530 %	96.5522 %	97.6476 %	94.7751 %
Concentration per Run 1	0.5317 ppm	98.7635 %	98.3389 %	93.3317 %	96.3617 %	97.4864 %	95.1435 %
Concentration per Run 2	0.5317 ppm	98.9758 %	99.4900 %	92.6835 %	96.9368 %	97.5211 %	94.0543 %
Concentration per Run 3	0.5363 ppm	97.7930 %	99.3355 %	93.4439 %	96.3580 %	97.9352 %	95.1274 %
Concentration RSD	0.5 %	0.6 %	0.6 %	0.4 %	0.3 %	0.3 %	0.7 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: WG2084202-4 WG2084202
 Analysis started at: 6/27/2025 11:14:43 AM
 Rack: 1
 Vial: 9
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0004 ppm	0.0039 ppm	-0.0004 ppm	-0.0007 ppm	0.0001 ppm	0.0000 ppm	0.0037 ppm
Concentration per Run 1	0.0003 ppm	0.0058 ppm	-0.0003 ppm	-0.0001 ppm	0.0001 ppm	0.0000 ppm	0.0038 ppm
Concentration per Run 2	0.0004 ppm	0.0054 ppm	0.0001 ppm	-0.0008 ppm	0.0001 ppm	0.0000 ppm	0.0042 ppm
Concentration per Run 3	0.0004 ppm	0.0004 ppm	-0.0010 ppm	-0.0011 ppm	0.0002 ppm	0.0000 ppm	0.0032 ppm
Concentration RSD	14.3 %	78.1 %	156.1 %	75.9 %	27.5 %	202.9 %	13.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0004 ppm	0.0015 ppm	0.0096 ppm	0.0003 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0017 ppm	0.0037 ppm	-0.0001 ppm
Concentration per Run 2	0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0006 ppm	0.0014 ppm	0.0189 ppm	0.0003 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0000 ppm	0.0003 ppm	0.0013 ppm	0.0063 ppm	0.0007 ppm
Concentration RSD	80.1 %	180.2 %	104.1 %	63.4 %	14.3 %	84.7 %	127.0 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0025 ppm	0.0001 ppm	0.0037 ppm	0.0061 ppm	0.0002 ppm	-0.0003 ppm	0.0025 ppm
Concentration per Run 1	0.0031 ppm	0.0002 ppm	0.0037 ppm	0.0081 ppm	0.0006 ppm	0.0000 ppm	0.0031 ppm
Concentration per Run 2	0.0028 ppm	0.0000 ppm	0.0036 ppm	0.0057 ppm	0.0002 ppm	-0.0003 ppm	0.0017 ppm
Concentration per Run 3	0.0016 ppm	0.0001 ppm	0.0038 ppm	0.0043 ppm	-0.0001 ppm	-0.0005 ppm	0.0028 ppm
Concentration RSD	33.0 %	97.9 %	2.7 %	32.2 %	158.7 %	97.5 %	30.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0014 ppm	0.0091 ppm	0.0018 ppm	0.0000 ppm	0.0005 ppm	-0.0010 ppm	0.0001 ppm
Concentration per Run 1	0.0029 ppm	0.0087 ppm	0.0016 ppm	0.0000 ppm	0.0004 ppm	-0.0012 ppm	0.0002 ppm
Concentration per Run 2	-0.0004 ppm	0.0089 ppm	0.0016 ppm	0.0001 ppm	0.0007 ppm	-0.0010 ppm	0.0000 ppm
Concentration per Run 3	0.0017 ppm	0.0096 ppm	0.0022 ppm	0.0000 ppm	0.0004 ppm	-0.0008 ppm	0.0002 ppm
Concentration RSD	118.0 %	5.6 %	18.3 %	258.3 %	30.1 %	19.8 %	81.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0008 ppm	98.9005 %	99.2086 %	94.2486 %	98.8224 %	99.8634 %	97.0303 %
Concentration per Run 1	-0.0007 ppm	99.6086 %	98.9577 %	94.0215 %	99.5083 %	99.7670 %	96.7331 %
Concentration per Run 2	-0.0008 ppm	99.1859 %	99.6137 %	93.9932 %	98.7430 %	100.3373 %	97.1966 %
Concentration per Run 3	-0.0008 ppm	97.9070 %	99.0543 %	94.7311 %	98.2158 %	99.4859 %	97.1612 %
Concentration RSD	2.3 %	0.9 %	0.4 %	0.4 %	0.7 %	0.4 %	0.3 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2539119-01 WG2084202
 Analysis started at: 6/27/2025 11:17:55 AM
 Rack: 1
 Vial: 10
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0004 ppm	0.0142 ppm	0.0007 ppm	0.0151 ppm	0.0645 ppm	0.0000 ppm	42.3943 ppm
Concentration per Run 1	-0.0004 ppm	0.0118 ppm	0.0021 ppm	0.0138 ppm	0.0646 ppm	0.0000 ppm	42.4926 ppm
Concentration per Run 2	-0.0004 ppm	0.0174 ppm	0.0001 ppm	0.0162 ppm	0.0644 ppm	0.0000 ppm	42.6012 ppm
Concentration per Run 3	-0.0004 ppm	0.0133 ppm	0.0000 ppm	0.0153 ppm	0.0643 ppm	0.0000 ppm	42.0892 ppm
Concentration RSD	5.2 %	20.4 %	169.4 %	8.2 %	0.2 %	330.0 %	0.6 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0001 ppm	-0.0001 ppm	0.0002 ppm	0.0003 ppm	8.1183 ppm	0.6881 ppm	0.0028 ppm
Concentration per Run 1	-0.0001 ppm	0.0000 ppm	0.0003 ppm	0.0003 ppm	8.1260 ppm	0.6902 ppm	0.0032 ppm
Concentration per Run 2	-0.0002 ppm	-0.0004 ppm	0.0003 ppm	0.0002 ppm	8.1476 ppm	0.6852 ppm	0.0026 ppm
Concentration per Run 3	-0.0001 ppm	0.0000 ppm	-0.0001 ppm	0.0005 ppm	8.0813 ppm	0.6890 ppm	0.0025 ppm
Concentration RSD	18.3 %	189.1 %	127.3 %	41.0 %	0.4 %	0.4 %	15.0 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	1.4576 ppm	0.1964 ppm	0.0010 ppm	144.8275 ppm	0.0001 ppm	0.0001 ppm	0.0022 ppm
Concentration per Run 1	1.4549 ppm	0.1974 ppm	0.0010 ppm	145.1100 ppm	0.0003 ppm	-0.0002 ppm	0.0006 ppm
Concentration per Run 2	1.4551 ppm	0.1966 ppm	0.0008 ppm	143.8373 ppm	-0.0006 ppm	0.0006 ppm	0.0036 ppm
Concentration per Run 3	1.4627 ppm	0.1952 ppm	0.0012 ppm	145.5353 ppm	0.0006 ppm	0.0000 ppm	0.0025 ppm
Concentration RSD	0.3 %	0.6 %	18.9 %	0.6 %	630.4 %	314.7 %	67.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0010 ppm	1.3924 ppm	-0.0003 ppm	0.1367 ppm	0.0002 ppm	-0.0015 ppm	0.0000 ppm
Concentration per Run 1	0.0031 ppm	1.3878 ppm	-0.0012 ppm	0.1374 ppm	0.0003 ppm	-0.0012 ppm	0.0001 ppm
Concentration per Run 2	0.0001 ppm	1.3938 ppm	0.0001 ppm	0.1361 ppm	0.0002 ppm	-0.0012 ppm	-0.0002 ppm
Concentration per Run 3	-0.0004 ppm	1.3955 ppm	0.0002 ppm	0.1367 ppm	0.0002 ppm	-0.0021 ppm	0.0001 ppm
Concentration RSD	194.3 %	0.3 %	258.8 %	0.5 %	23.4 %	35.4 %	862.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0004 ppm	93.9630 %	97.1379 %	86.8499 %	91.6446 %	94.8882 %	90.7327 %
Concentration per Run 1	-0.0004 ppm	94.5442 %	96.7100 %	86.9876 %	91.9220 %	94.7135 %	90.9427 %
Concentration per Run 2	-0.0005 ppm	94.2202 %	96.8158 %	86.5397 %	92.0251 %	94.8332 %	90.3354 %
Concentration per Run 3	-0.0003 ppm	93.1246 %	97.8880 %	87.0223 %	90.9867 %	95.1179 %	90.9199 %
Concentration RSD	28.0 %	0.8 %	0.7 %	0.3 %	0.6 %	0.2 %	0.4 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2539120-01 WG2084202
 Analysis started at: 6/27/2025 11:21:08 AM
 Rack: 1
 Vial: 11
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0000 ppm	0.0031 ppm	-0.0009 ppm	0.0138 ppm	0.0338 ppm	0.0000 ppm	75.9564 ppm
Concentration per Run 1	-0.0001 ppm	0.0032 ppm	-0.0016 ppm	0.0139 ppm	0.0340 ppm	0.0000 ppm	76.0750 ppm
Concentration per Run 2	-0.0002 ppm	0.0055 ppm	0.0004 ppm	0.0139 ppm	0.0338 ppm	0.0000 ppm	76.2468 ppm
Concentration per Run 3	0.0001 ppm	0.0005 ppm	-0.0014 ppm	0.0137 ppm	0.0337 ppm	0.0000 ppm	75.5475 ppm
Concentration RSD	343.7 %	80.6 %	130.2 %	0.9 %	0.5 %	9.7 %	0.5 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0001 ppm	0.0011 ppm	0.0008 ppm	0.0013 ppm	0.0062 ppm	0.9363 ppm	0.0029 ppm
Concentration per Run 1	-0.0001 ppm	0.0014 ppm	0.0007 ppm	0.0013 ppm	0.0055 ppm	0.9561 ppm	0.0036 ppm
Concentration per Run 2	-0.0001 ppm	0.0009 ppm	0.0011 ppm	0.0014 ppm	0.0058 ppm	0.9313 ppm	0.0023 ppm
Concentration per Run 3	-0.0001 ppm	0.0010 ppm	0.0007 ppm	0.0011 ppm	0.0071 ppm	0.9216 ppm	0.0029 ppm
Concentration RSD	42.4 %	25.8 %	30.6 %	11.0 %	14.3 %	1.9 %	21.6 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	1.2865 ppm	0.0952 ppm	0.0008 ppm	131.7517 ppm	0.0023 ppm	0.0047 ppm	0.0031 ppm
Concentration per Run 1	1.2895 ppm	0.0960 ppm	0.0008 ppm	132.6943 ppm	0.0025 ppm	0.0047 ppm	0.0039 ppm
Concentration per Run 2	1.2847 ppm	0.0950 ppm	0.0010 ppm	131.1239 ppm	0.0024 ppm	0.0055 ppm	0.0026 ppm
Concentration per Run 3	1.2853 ppm	0.0947 ppm	0.0008 ppm	131.4369 ppm	0.0020 ppm	0.0040 ppm	0.0028 ppm
Concentration RSD	0.2 %	0.7 %	13.5 %	0.6 %	10.5 %	15.0 %	22.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0018 ppm	2.6930 ppm	0.0004 ppm	0.2577 ppm	0.0005 ppm	-0.0016 ppm	0.0005 ppm
Concentration per Run 1	0.0010 ppm	2.6917 ppm	0.0006 ppm	0.2574 ppm	0.0004 ppm	-0.0011 ppm	0.0005 ppm
Concentration per Run 2	0.0034 ppm	2.6898 ppm	0.0004 ppm	0.2594 ppm	0.0008 ppm	-0.0024 ppm	0.0004 ppm
Concentration per Run 3	0.0008 ppm	2.6976 ppm	0.0004 ppm	0.2562 ppm	0.0004 ppm	-0.0012 ppm	0.0005 ppm
Concentration RSD	79.9 %	0.1 %	36.4 %	0.6 %	47.5 %	48.0 %	21.8 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0383 ppm	93.8504 %	96.9635 %	86.4583 %	91.1364 %	95.0120 %	90.5962 %
Concentration per Run 1	0.0387 ppm	93.6900 %	96.4068 %	85.9344 %	91.3963 %	94.7943 %	90.3756 %
Concentration per Run 2	0.0381 ppm	93.9146 %	96.4015 %	87.0883 %	90.6737 %	94.6196 %	91.1581 %
Concentration per Run 3	0.0381 ppm	93.9465 %	98.0823 %	86.3521 %	91.3393 %	95.6220 %	90.2547 %
Concentration RSD	1.0 %	0.1 %	1.0 %	0.7 %	0.4 %	0.6 %	0.5 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2539120-02 WG2084202
 Analysis started at: 6/27/2025 11:24:21 AM
 Rack: 1
 Vial: 12
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0000 ppm	0.0027 ppm	0.0000 ppm	0.0115 ppm	0.0342 ppm	0.0000 ppm	73.3564 ppm
Concentration per Run 1	-0.0001 ppm	0.0025 ppm	0.0005 ppm	0.0120 ppm	0.0342 ppm	0.0000 ppm	73.2782 ppm
Concentration per Run 2	-0.0001 ppm	0.0029 ppm	-0.0015 ppm	0.0102 ppm	0.0341 ppm	0.0000 ppm	73.2470 ppm
Concentration per Run 3	0.0003 ppm	0.0027 ppm	0.0010 ppm	0.0124 ppm	0.0342 ppm	0.0000 ppm	73.5439 ppm
Concentration RSD	1,291.8 %	5.8 %	7,728.6 %	10.4 %	0.1 %	83.6 %	0.2 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0001 ppm	0.0011 ppm	0.0002 ppm	0.0019 ppm	0.0052 ppm	1.0962 ppm	0.0030 ppm
Concentration per Run 1	0.0000 ppm	0.0011 ppm	0.0003 ppm	0.0018 ppm	0.0055 ppm	1.1000 ppm	0.0036 ppm
Concentration per Run 2	0.0001 ppm	0.0012 ppm	0.0006 ppm	0.0019 ppm	0.0039 ppm	1.1017 ppm	0.0022 ppm
Concentration per Run 3	0.0001 ppm	0.0010 ppm	-0.0002 ppm	0.0019 ppm	0.0062 ppm	1.0869 ppm	0.0031 ppm
Concentration RSD	77.1 %	6.6 %	166.5 %	1.7 %	22.6 %	0.7 %	23.5 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	1.3308 ppm	0.1232 ppm	0.0006 ppm	131.3573 ppm	0.0020 ppm	0.0072 ppm	0.0010 ppm
Concentration per Run 1	1.3301 ppm	0.1234 ppm	0.0009 ppm	131.2935 ppm	0.0016 ppm	0.0067 ppm	0.0008 ppm
Concentration per Run 2	1.3241 ppm	0.1227 ppm	0.0003 ppm	131.9901 ppm	0.0023 ppm	0.0073 ppm	0.0002 ppm
Concentration per Run 3	1.3382 ppm	0.1235 ppm	0.0007 ppm	130.7882 ppm	0.0020 ppm	0.0076 ppm	0.0021 ppm
Concentration RSD	0.5 %	0.3 %	53.7 %	0.5 %	18.7 %	6.7 %	91.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0020 ppm	1.5388 ppm	0.0003 ppm	0.2622 ppm	0.0003 ppm	-0.0003 ppm	0.0003 ppm
Concentration per Run 1	0.0034 ppm	1.5466 ppm	-0.0002 ppm	0.2631 ppm	0.0006 ppm	-0.0004 ppm	0.0001 ppm
Concentration per Run 2	0.0002 ppm	1.5322 ppm	0.0008 ppm	0.2609 ppm	0.0003 ppm	-0.0005 ppm	0.0004 ppm
Concentration per Run 3	0.0025 ppm	1.5375 ppm	0.0002 ppm	0.2627 ppm	0.0000 ppm	-0.0001 ppm	0.0004 ppm
Concentration RSD	83.5 %	0.5 %	195.7 %	0.4 %	93.8 %	73.7 %	65.8 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0530 ppm	93.8040 %	96.7620 %	86.4147 %	91.0739 %	94.9104 %	90.4507 %
Concentration per Run 1	0.0534 ppm	93.7421 %	96.6540 %	86.7406 %	91.1120 %	94.8697 %	90.6484 %
Concentration per Run 2	0.0527 ppm	94.1239 %	97.2920 %	86.4597 %	91.3857 %	94.9724 %	90.5559 %
Concentration per Run 3	0.0530 ppm	93.5461 %	96.3401 %	86.0437 %	90.7241 %	94.8889 %	90.1477 %
Concentration RSD	0.7 %	0.3 %	0.5 %	0.4 %	0.4 %	0.1 %	0.3 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: CCV
Analysis started at: 6/27/2025 11:27:34 AM
Rack: 0
Vial: 3
Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.5308 ppm	0.4838 ppm	0.4706 ppm	0.4979 ppm	0.4957 ppm	0.5008 ppm	0.5000 ppm
Concentration per Run 1	0.5310 ppm	0.4834 ppm	0.4716 ppm	0.4962 ppm	0.4936 ppm	0.5007 ppm	0.5050 ppm
Concentration per Run 2	0.5325 ppm	0.4911 ppm	0.4682 ppm	0.4983 ppm	0.4956 ppm	0.4994 ppm	0.4974 ppm
Concentration per Run 3	0.5288 ppm	0.4768 ppm	0.4721 ppm	0.4992 ppm	0.4979 ppm	0.5023 ppm	0.4978 ppm
Recovery Percentage 1	106.152 %	96.755 %	94.120 %	99.588 %	99.146 %	100.159 %	100.009 %
Concentration RSD	0.3 %	1.5 %	0.5 %	0.3 %	0.4 %	0.3 %	0.9 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.4792 ppm	0.5024 ppm	0.5204 ppm	0.4969 ppm	0.4999 ppm	5.0922 ppm	0.5155 ppm
Concentration per Run 1	0.4805 ppm	0.5042 ppm	0.5198 ppm	0.4981 ppm	0.4997 ppm	5.0700 ppm	0.5117 ppm
Concentration per Run 2	0.4794 ppm	0.5027 ppm	0.5215 ppm	0.4962 ppm	0.4981 ppm	5.0991 ppm	0.5154 ppm
Concentration per Run 3	0.4778 ppm	0.5002 ppm	0.5198 ppm	0.4963 ppm	0.5019 ppm	5.1074 ppm	0.5194 ppm
Recovery Percentage 1	95.847 %	100.472 %	104.074 %	99.374 %	99.984 %	101.843 %	103.098 %
Concentration RSD	0.3 %	0.4 %	0.2 %	0.2 %	0.4 %	0.4 %	0.7 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.5153 ppm	0.4989 ppm	0.5053 ppm	10.2042 ppm	0.5263 ppm	0.5063 ppm	0.4913 ppm
Concentration per Run 1	0.5153 ppm	0.4995 ppm	0.5052 ppm	10.1927 ppm	0.5250 ppm	0.5065 ppm	0.4933 ppm
Concentration per Run 2	0.5175 ppm	0.4985 ppm	0.5051 ppm	10.2035 ppm	0.5261 ppm	0.5057 ppm	0.4924 ppm
Concentration per Run 3	0.5130 ppm	0.4986 ppm	0.5056 ppm	10.2164 ppm	0.5277 ppm	0.5068 ppm	0.4881 ppm
Recovery Percentage 1	103.050 %	99.780 %	101.056 %	102.042 %	105.252 %	101.262 %	98.253 %
Concentration RSD	0.4 %	0.1 %	0.1 %	0.1 %	0.3 %	0.1 %	0.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.4818 ppm	5.3452 ppm	0.5142 ppm	0.5029 ppm	0.5154 ppm	0.5067 ppm	0.4925 ppm
Concentration per Run 1	0.4823 ppm	5.3450 ppm	0.5129 ppm	0.5018 ppm	0.5146 ppm	0.5072 ppm	0.4930 ppm
Concentration per Run 2	0.4817 ppm	5.3655 ppm	0.5149 ppm	0.5045 ppm	0.5172 ppm	0.5046 ppm	0.4924 ppm
Concentration per Run 3	0.4814 ppm	5.3249 ppm	0.5147 ppm	0.5023 ppm	0.5146 ppm	0.5084 ppm	0.4920 ppm
Recovery Percentage 1	96.360 %	101.813 %	102.836 %	100.573 %	103.089 %	101.347 %	98.493 %
Concentration RSD	0.1 %	0.4 %	0.2 %	0.3 %	0.3 %	0.4 %	0.1 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5146 ppm	100.2701 %	101.1460 %	97.9606 %	98.2896 %	99.3382 %	97.3463 %
Concentration per Run 1	0.5121 ppm	100.4239 %	101.5204 %	97.6113 %	98.3325 %	99.9468 %	96.9977 %
Concentration per Run 2	0.5165 ppm	100.4311 %	101.8704 %	98.0667 %	98.7329 %	99.9681 %	97.2803 %
Concentration per Run 3	0.5152 ppm	99.9553 %	100.0472 %	98.2038 %	97.8036 %	98.0997 %	97.7609 %
Recovery Percentage 1	102.923 %						
Concentration RSD	0.4 %	0.3 %	1.0 %	0.3 %	0.5 %	1.1 %	0.4 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: CCB
 Analysis started at: 6/27/2025 11:30:47 AM
 Rack: 0
 Vial: 4
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0000 ppm	0.0038 ppm	-0.0001 ppm	-0.0013 ppm	0.0000 ppm	0.0000 ppm	0.0013 ppm
Concentration per Run 1	-0.0001 ppm	0.0037 ppm	0.0000 ppm	-0.0011 ppm	0.0000 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 2	0.0001 ppm	0.0019 ppm	-0.0004 ppm	-0.0032 ppm	0.0000 ppm	0.0000 ppm	0.0028 ppm
Concentration per Run 3	-0.0001 ppm	0.0060 ppm	0.0003 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	0.0010 ppm
Recovery Percentage 1	-0.072 %	3.831 %	-1.342 %	-4.376 %	0.027 %	0.536 %	1.325 %
Concentration RSD	1,906.3 %	53.5 %	544.8 %	140.0 %	819.2 %	83.2 %	99.0 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0001 ppm	0.0001 ppm	0.0002 ppm	0.0002 ppm	0.0009 ppm	0.0053 ppm	0.0000 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0002 ppm	0.0004 ppm	0.0011 ppm	0.0124 ppm	-0.0001 ppm
Concentration per Run 2	0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0012 ppm	0.0012 ppm	-0.0001 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	0.0003 ppm	0.0001 ppm	0.0005 ppm	0.0024 ppm	0.0003 ppm
Recovery Percentage 1	1.888 %	0.300 %	1.692 %	1.713 %	1.860 %	0.214 %	0.483 %
Concentration RSD	48.8 %	300.6 %	59.1 %	105.2 %	39.5 %	115.6 %	986.9 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	-0.0001 ppm	0.0002 ppm	0.0027 ppm	0.0055 ppm	0.0003 ppm	0.0003 ppm	0.0030 ppm
Concentration per Run 1	0.0005 ppm	0.0001 ppm	0.0030 ppm	0.0054 ppm	-0.0001 ppm	0.0010 ppm	0.0017 ppm
Concentration per Run 2	-0.0009 ppm	0.0001 ppm	0.0026 ppm	0.0056 ppm	0.0006 ppm	0.0002 ppm	0.0034 ppm
Concentration per Run 3	0.0002 ppm	0.0003 ppm	0.0023 ppm	0.0056 ppm	0.0004 ppm	-0.0003 ppm	0.0040 ppm
Recovery Percentage 1	-0.079 %	1.744 %	5.316 %	0.277 %	1.185 %	2.959 %	6.039 %
Concentration RSD	937.3 %	69.0 %	12.7 %	2.6 %	118.2 %	214.3 %	38.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0000 ppm	0.0022 ppm	0.0002 ppm	0.0000 ppm	0.0003 ppm	-0.0003 ppm	0.0000 ppm
Concentration per Run 1	-0.0004 ppm	0.0016 ppm	-0.0001 ppm	0.0000 ppm	0.0004 ppm	0.0008 ppm	0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0027 ppm	0.0006 ppm	0.0000 ppm	0.0001 ppm	-0.0008 ppm	0.0001 ppm
Concentration per Run 3	0.0004 ppm	0.0023 ppm	0.0002 ppm	0.0000 ppm	0.0004 ppm	-0.0010 ppm	0.0000 ppm
Recovery Percentage 1	-0.326 %	0.443 %	0.481 %	-0.064 %	3.198 %	-1.718 %	0.498 %
Concentration RSD	1,224.3 %	24.8 %	144.4 %	499.9 %	48.9 %	301.3 %	145.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0003 ppm	99.0116 %	99.0287 %	97.8318 %	99.7490 %	99.0926 %	98.7133 %
Concentration per Run 1	-0.0003 ppm	98.4629 %	100.6810 %	97.6791 %	99.6481 %	100.5412 %	98.6732 %
Concentration per Run 2	-0.0004 ppm	99.3150 %	98.3257 %	97.9845 %	99.4948 %	98.9034 %	98.6436 %
Concentration per Run 3	-0.0001 ppm	99.2567 %	98.0793 %	97.8317 %	100.1040 %	97.8332 %	98.8230 %
Recovery Percentage 1	-5.468 %						
Concentration RSD	54.5 %	0.5 %	1.5 %	0.2 %	0.3 %	1.4 %	0.1 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: WG2084191-1 WG2084191
 Analysis started at: 6/27/2025 11:58:36 AM
 Rack: 1
 Vial: 13
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0001 ppm	0.0076 ppm	-0.0005 ppm	-0.0005 ppm	0.0002 ppm	0.0000 ppm	0.0158 ppm
Concentration per Run 1	0.0000 ppm	0.0066 ppm	0.0014 ppm	-0.0004 ppm	0.0001 ppm	0.0000 ppm	0.0162 ppm
Concentration per Run 2	0.0001 ppm	0.0083 ppm	-0.0027 ppm	-0.0018 ppm	0.0002 ppm	0.0000 ppm	0.0146 ppm
Concentration per Run 3	0.0002 ppm	0.0079 ppm	-0.0001 ppm	0.0005 ppm	0.0002 ppm	0.0000 ppm	0.0167 ppm
Concentration RSD	137.3 %	11.2 %	432.7 %	213.7 %	23.7 %	105.2 %	6.9 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0003 ppm	0.0003 ppm	0.0148 ppm	0.0182 ppm	0.0006 ppm
Concentration per Run 1	0.0001 ppm	-0.0004 ppm	0.0002 ppm	0.0002 ppm	0.0151 ppm	0.0179 ppm	0.0008 ppm
Concentration per Run 2	0.0001 ppm	0.0001 ppm	0.0004 ppm	0.0002 ppm	0.0151 ppm	0.0243 ppm	0.0003 ppm
Concentration per Run 3	0.0000 ppm	-0.0003 ppm	0.0004 ppm	0.0003 ppm	0.0142 ppm	0.0125 ppm	0.0006 ppm
Concentration RSD	197.8 %	114.4 %	36.5 %	22.3 %	3.4 %	32.3 %	38.7 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0049 ppm	0.0005 ppm	0.0004 ppm	0.0095 ppm	0.0005 ppm	0.0001 ppm	0.0003 ppm
Concentration per Run 1	0.0044 ppm	0.0006 ppm	0.0006 ppm	0.0091 ppm	0.0001 ppm	0.0002 ppm	0.0019 ppm
Concentration per Run 2	0.0058 ppm	0.0005 ppm	0.0005 ppm	0.0092 ppm	0.0002 ppm	0.0001 ppm	0.0006 ppm
Concentration per Run 3	0.0044 ppm	0.0004 ppm	0.0001 ppm	0.0103 ppm	0.0010 ppm	-0.0002 ppm	-0.0017 ppm
Concentration RSD	16.7 %	14.6 %	70.9 %	6.8 %	107.1 %	455.7 %	711.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0000 ppm	0.0260 ppm	0.0070 ppm	0.0000 ppm	0.0003 ppm	-0.0014 ppm	-0.0001 ppm
Concentration per Run 1	-0.0025 ppm	0.0244 ppm	0.0073 ppm	0.0000 ppm	0.0003 ppm	-0.0008 ppm	0.0001 ppm
Concentration per Run 2	-0.0001 ppm	0.0260 ppm	0.0072 ppm	0.0000 ppm	0.0003 ppm	-0.0013 ppm	-0.0002 ppm
Concentration per Run 3	0.0026 ppm	0.0276 ppm	0.0066 ppm	0.0000 ppm	0.0003 ppm	-0.0019 ppm	-0.0001 ppm
Concentration RSD	88,429.8 %	6.1 %	5.9 %	43.4 %	9.7 %	38.9 %	179.6 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0004 ppm	100.1602 %	100.0118 %	98.2769 %	99.3902 %	99.5185 %	98.1229 %
Concentration per Run 1	0.0004 ppm	99.6165 %	100.1535 %	98.0272 %	99.5413 %	99.4649 %	98.0108 %
Concentration per Run 2	0.0004 ppm	100.5160 %	99.9284 %	98.0802 %	99.2367 %	99.5059 %	97.8563 %
Concentration per Run 3	0.0004 ppm	100.3481 %	99.9534 %	98.7233 %	99.3925 %	99.5846 %	98.5016 %
Concentration RSD	7.4 %	0.5 %	0.1 %	0.4 %	0.2 %	0.1 %	0.3 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: WG2084191-2d2 WG2084191
 Analysis started at: 6/27/2025 12:01:58 PM
 Rack: 1
 Vial: 14
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0585 ppm	2.3006 ppm	0.1207 ppm	1.0202 ppm	2.2588 ppm	0.0568 ppm	10.0959 ppm
Concentration per Run 1	0.0586 ppm	2.3083 ppm	0.1201 ppm	1.0210 ppm	2.2677 ppm	0.0571 ppm	10.1565 ppm
Concentration per Run 2	0.0583 ppm	2.2938 ppm	0.1206 ppm	1.0184 ppm	2.2487 ppm	0.0566 ppm	10.0843 ppm
Concentration per Run 3	0.0588 ppm	2.2997 ppm	0.1214 ppm	1.0212 ppm	2.2601 ppm	0.0566 ppm	10.0468 ppm
Concentration RSD	0.4 %	0.3 %	0.5 %	0.2 %	0.4 %	0.4 %	0.6 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0499 ppm	0.5430 ppm	0.2263 ppm	0.2771 ppm	1.1352 ppm	10.6871 ppm	0.0005 ppm
Concentration per Run 1	0.0501 ppm	0.5449 ppm	0.2270 ppm	0.2768 ppm	1.1377 ppm	10.7275 ppm	0.0007 ppm
Concentration per Run 2	0.0500 ppm	0.5420 ppm	0.2258 ppm	0.2783 ppm	1.1363 ppm	10.6951 ppm	0.0004 ppm
Concentration per Run 3	0.0495 ppm	0.5420 ppm	0.2260 ppm	0.2763 ppm	1.1316 ppm	10.6385 ppm	0.0005 ppm
Concentration RSD	0.6 %	0.3 %	0.3 %	0.4 %	0.3 %	0.4 %	32.0 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	10.4328 ppm	0.5559 ppm	1.0345 ppm	11.0224 ppm	0.5720 ppm	0.5471 ppm	0.4949 ppm
Concentration per Run 1	10.4788 ppm	0.5583 ppm	1.0373 ppm	11.0389 ppm	0.5739 ppm	0.5472 ppm	0.4983 ppm
Concentration per Run 2	10.4102 ppm	0.5558 ppm	1.0314 ppm	11.0688 ppm	0.5692 ppm	0.5464 ppm	0.4963 ppm
Concentration per Run 3	10.4093 ppm	0.5537 ppm	1.0347 ppm	10.9596 ppm	0.5729 ppm	0.5478 ppm	0.4901 ppm
Concentration RSD	0.4 %	0.4 %	0.3 %	0.5 %	0.4 %	0.1 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.1230 ppm	0.8948 ppm	1.0462 [SIC 20]	1.0205 ppm	1.0576 ppm	0.1243 ppm	0.5566 ppm
Concentration per Run 1	0.1243 ppm	0.8982 ppm	1.0513 ppm	1.0242 ppm	1.0556 ppm	0.1247 ppm	0.5581 ppm
Concentration per Run 2	0.1230 ppm	0.8919 ppm	1.0415 ppm	1.0157 ppm	1.0561 ppm	0.1246 ppm	0.5580 ppm
Concentration per Run 3	0.1216 ppm	0.8941 ppm	1.0460 ppm	1.0216 ppm	1.0611 ppm	0.1236 ppm	0.5538 ppm
Concentration RSD	1.1 %	0.4 %	0.5 %	0.4 %	0.3 %	0.5 %	0.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5605 ppm	98.6455 %	99.3788 %	93.8644 %	96.9781 %	98.5997 %	94.8359 %
Concentration per Run 1	0.5651 ppm	98.3071 %	98.9897 %	93.9191 %	96.6605 %	98.5373 %	94.9664 %
Concentration per Run 2	0.5571 ppm	98.8729 %	99.9444 %	94.3417 %	96.7644 %	99.0454 %	95.3992 %
Concentration per Run 3	0.5594 ppm	98.7566 %	99.2023 %	93.3324 %	97.5093 %	98.2162 %	94.1422 %
Concentration RSD	0.7 %	0.3 %	0.5 %	0.5 %	0.5 %	0.4 %	0.7 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2539031-01d2 WG2084191
 Analysis started at: 6/27/2025 12:05:09 PM
 Rack: 1
 Vial: 20
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0008 ppm	100.4869 ppm	0.0500 ppm	0.0200 ppm	0.5133 ppm	0.0041 ppm	11.5874 ppm
Concentration per Run 1	0.0007 ppm	100.2510 ppm	0.0504 ppm	0.0208 ppm	0.5068 ppm	0.0040 ppm	11.6064 ppm
Concentration per Run 2	0.0011 ppm	100.9153 ppm	0.0484 ppm	0.0201 ppm	0.5181 ppm	0.0041 ppm	11.7288 ppm
Concentration per Run 3	0.0008 ppm	100.2944 ppm	0.0512 ppm	0.0189 ppm	0.5150 ppm	0.0041 ppm	11.4270 ppm
Concentration RSD	23.3 %	0.4 %	2.9 %	4.7 %	1.1 %	1.1 %	1.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0028 ppm	0.0901 ppm	0.1552 ppm	0.1512 ppm	170.1258 ppm	5.0296 ppm	0.1058 ppm
Concentration per Run 1	0.0029 ppm	0.0899 ppm	0.1554 ppm	0.1513 ppm	169.0416 ppm	5.0280 ppm	0.1057 ppm
Concentration per Run 2	0.0028 ppm	0.0907 ppm	0.1556 ppm	0.1510 ppm	171.9127 ppm	5.0537 ppm	0.1064 ppm
Concentration per Run 3	0.0026 ppm	0.0898 ppm	0.1546 ppm	0.1512 ppm	169.4231 ppm	5.0072 ppm	0.1052 ppm
Concentration RSD	6.0 %	0.5 %	0.4 %	0.1 %	0.9 %	0.5 %	0.6 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	26.0075 ppm	4.7705 ppm	0.0048 ppm	4.9996 ppm	0.1295 ppm	0.1565 ppm	-0.0023 ppm
Concentration per Run 1	25.9145 ppm	4.7816 ppm	0.0052 ppm	5.0648 ppm	0.1307 ppm	0.1571 ppm	-0.0005 ppm
Concentration per Run 2	26.0732 ppm	4.8000 ppm	0.0048 ppm	4.9711 ppm	0.1292 ppm	0.1565 ppm	-0.0037 ppm
Concentration per Run 3	26.0347 ppm	4.7299 ppm	0.0045 ppm	4.9628 ppm	0.1287 ppm	0.1559 ppm	-0.0026 ppm
Concentration RSD	0.3 %	0.8 %	6.7 %	1.1 %	0.8 %	0.4 %	71.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0008 ppm	19.5796 ppm	0.0105 ppm	0.0925 ppm	4.1876 ppm	-0.0006 ppm	0.2938 ppm
Concentration per Run 1	-0.0010 ppm	19.6528 ppm	0.0100 ppm	0.0916 ppm	4.1860 ppm	-0.0010 ppm	0.2942 ppm
Concentration per Run 2	-0.0010 ppm	19.5203 ppm	0.0108 ppm	0.0937 ppm	4.2050 ppm	0.0002 ppm	0.2951 ppm
Concentration per Run 3	-0.0004 ppm	19.5656 ppm	0.0106 ppm	0.0923 ppm	4.1717 ppm	-0.0010 ppm	0.2922 ppm
Concentration RSD	40.7 %	0.3 %	3.9 %	1.1 %	0.4 %	108.8 %	0.5 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3340 ppm	106.6537 %	105.6845 %	95.8298 %	116.4636 %	125.2241 %	122.5325 %
Concentration per Run 1	0.3318 ppm	106.8582 %	106.5209 %	96.2270 %	116.1174 %	125.5638 %	123.0866 %
Concentration per Run 2	0.3351 ppm	107.0673 %	104.0628 %	96.0049 %	116.3601 %	124.6518 %	122.8134 %
Concentration per Run 3	0.3350 ppm	106.0356 %	106.4699 %	95.2575 %	116.9134 %	125.4568 %	121.6975 %
Concentration RSD	0.6 %	0.5 %	1.3 %	0.5 %	0.4 %	0.4 %	0.6 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2539739-01d2 WG2084191
 Analysis started at: 6/27/2025 12:08:21 PM
 Rack: 1
 Vial: 21
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0004 ppm	31.3816 ppm	0.0448 ppm	0.0098 ppm	0.3292 ppm	0.0024 ppm	7.9211 ppm
Concentration per Run 1	0.0003 ppm	31.4172 ppm	0.0455 ppm	0.0106 ppm	0.3303 ppm	0.0024 ppm	7.9089 ppm
Concentration per Run 2	0.0003 ppm	31.4501 ppm	0.0450 ppm	0.0097 ppm	0.3282 ppm	0.0023 ppm	7.9164 ppm
Concentration per Run 3	0.0006 ppm	31.2775 ppm	0.0437 ppm	0.0090 ppm	0.3290 ppm	0.0024 ppm	7.9380 ppm
Concentration RSD	39.1 %	0.3 %	2.1 %	7.9 %	0.3 %	1.7 %	0.2 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0019 ppm	0.0120 ppm	0.0738 ppm	0.0784 ppm	51.8153 ppm	3.2153 ppm	0.0264 ppm
Concentration per Run 1	0.0019 ppm	0.0116 ppm	0.0739 ppm	0.0785 ppm	51.8278 ppm	3.2449 ppm	0.0269 ppm
Concentration per Run 2	0.0019 ppm	0.0124 ppm	0.0740 ppm	0.0781 ppm	51.7084 ppm	3.2499 ppm	0.0263 ppm
Concentration per Run 3	0.0019 ppm	0.0119 ppm	0.0735 ppm	0.0787 ppm	51.9095 ppm	3.1510 ppm	0.0259 ppm
Concentration RSD	1.0 %	3.5 %	0.3 %	0.4 %	0.2 %	1.7 %	1.9 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	4.3975 ppm	1.0850 ppm	0.0034 ppm	0.2195 ppm	0.0315 ppm	0.8004 ppm	0.0062 ppm
Concentration per Run 1	4.4084 ppm	1.0858 ppm	0.0036 ppm	0.2269 ppm	0.0316 ppm	0.8017 ppm	0.0086 ppm
Concentration per Run 2	4.4025 ppm	1.0853 ppm	0.0034 ppm	0.2154 ppm	0.0312 ppm	0.8040 ppm	0.0041 ppm
Concentration per Run 3	4.3816 ppm	1.0839 ppm	0.0033 ppm	0.2161 ppm	0.0317 ppm	0.7953 ppm	0.0058 ppm
Concentration RSD	0.3 %	0.1 %	4.5 %	2.9 %	0.9 %	0.6 %	36.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0016 ppm	17.4172 ppm	0.0274 ppm	0.0357 ppm	0.8640 ppm	0.0000 ppm	0.1056 ppm
Concentration per Run 1	0.0025 ppm	17.7684 ppm	0.0277 ppm	0.0357 ppm	0.8868 ppm	0.0001 ppm	0.1062 ppm
Concentration per Run 2	0.0001 ppm	17.2770 ppm	0.0271 ppm	0.0359 ppm	0.8554 ppm	-0.0001 ppm	0.1057 ppm
Concentration per Run 3	0.0021 ppm	17.2062 ppm	0.0276 ppm	0.0355 ppm	0.8500 ppm	0.0001 ppm	0.1049 ppm
Concentration RSD	81.6 %	1.8 %	1.2 %	0.5 %	2.3 %	481.8 %	0.6 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2708 ppm	98.6563 %	100.5509 %	93.7047 %	103.2995 %	105.2225 %	102.0484 %
Concentration per Run 1	0.2710 ppm	98.9193 %	101.0092 %	93.8468 %	103.0147 %	105.6705 %	102.1604 %
Concentration per Run 2	0.2704 ppm	98.9067 %	100.1850 %	93.2814 %	103.5009 %	104.7817 %	101.7519 %
Concentration per Run 3	0.2710 ppm	98.1429 %	100.4585 %	93.9861 %	103.3829 %	105.2155 %	102.2330 %
Concentration RSD	0.1 %	0.5 %	0.4 %	0.4 %	0.2 %	0.4 %	0.3 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2539739-02d2 WG2084191
 Analysis started at: 6/27/2025 12:11:34 PM
 Rack: 1
 Vial: 22
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0000 ppm	32.7750 ppm	0.0412 ppm	0.0067 ppm	0.2368 ppm	0.0022 ppm	2.4269 ppm
Concentration per Run 1	-0.0003 ppm	32.6653 ppm	0.0406 ppm	0.0080 ppm	0.2362 ppm	0.0022 ppm	2.4213 ppm
Concentration per Run 2	0.0000 ppm	32.8047 ppm	0.0420 ppm	0.0053 ppm	0.2371 ppm	0.0022 ppm	2.4259 ppm
Concentration per Run 3	0.0003 ppm	32.8549 ppm	0.0410 ppm	0.0068 ppm	0.2371 ppm	0.0022 ppm	2.4335 ppm
Concentration RSD	9,799.7 %	0.3 %	1.7 %	20.1 %	0.2 %	0.5 %	0.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0011 ppm	0.0094 ppm	0.0514 ppm	0.0610 ppm	47.2532 ppm	2.5098 ppm	0.0238 ppm
Concentration per Run 1	0.0011 ppm	0.0097 ppm	0.0514 ppm	0.0609 ppm	47.3093 ppm	2.5176 ppm	0.0236 ppm
Concentration per Run 2	0.0011 ppm	0.0088 ppm	0.0517 ppm	0.0614 ppm	47.1960 ppm	2.4827 ppm	0.0238 ppm
Concentration per Run 3	0.0011 ppm	0.0097 ppm	0.0510 ppm	0.0608 ppm	47.2543 ppm	2.5290 ppm	0.0240 ppm
Concentration RSD	3.7 %	5.3 %	0.6 %	0.5 %	0.1 %	1.0 %	0.7 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	3.5184 ppm	1.4694 ppm	0.0034 ppm	0.1840 ppm	0.0249 ppm	0.2154 ppm	0.0025 ppm
Concentration per Run 1	3.5305 ppm	1.4684 ppm	0.0035 ppm	0.1820 ppm	0.0247 ppm	0.2166 ppm	0.0006 ppm
Concentration per Run 2	3.5130 ppm	1.4655 ppm	0.0036 ppm	0.1728 ppm	0.0246 ppm	0.2144 ppm	0.0027 ppm
Concentration per Run 3	3.5117 ppm	1.4742 ppm	0.0031 ppm	0.1971 ppm	0.0254 ppm	0.2151 ppm	0.0040 ppm
Concentration RSD	0.3 %	0.3 %	7.2 %	6.7 %	1.8 %	0.5 %	68.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0014 ppm	20.1608 [SIC 200]	0.0128 ppm	0.0175 ppm	0.8178 ppm	-0.0009 ppm	0.0913 ppm
Concentration per Run 1	-0.0002 ppm	20.2611 ppm	0.0118 ppm	0.0175 ppm	0.8457 ppm	-0.0003 ppm	0.0915 ppm
Concentration per Run 2	0.0016 ppm	19.9600 ppm	0.0125 ppm	0.0174 ppm	0.8014 ppm	-0.0012 ppm	0.0919 ppm
Concentration per Run 3	0.0029 ppm	20.2614 ppm	0.0140 ppm	0.0178 ppm	0.8063 ppm	-0.0012 ppm	0.0906 ppm
Concentration RSD	109.0 %	0.9 %	8.9 %	1.1 %	3.0 %	60.7 %	0.7 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1769 ppm	99.5761 %	101.3346 %	94.2504 %	103.2795 %	104.9119 %	101.9481 %
Concentration per Run 1	0.1776 ppm	99.6802 %	101.3163 %	94.9630 %	103.1669 %	104.4659 %	102.6935 %
Concentration per Run 2	0.1774 ppm	99.4842 %	101.3649 %	93.7139 %	102.7658 %	104.9718 %	101.4948 %
Concentration per Run 3	0.1756 ppm	99.5638 %	101.3227 %	94.0741 %	103.9057 %	105.2981 %	101.6561 %
Concentration RSD	0.6 %	0.1 %	0.0 %	0.7 %	0.6 %	0.4 %	0.6 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2539742-01d2 WG2084191
 Analysis started at: 6/27/2025 12:14:47 PM
 Rack: 1
 Vial: 15
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0001 ppm	24.0735 ppm	0.0352 ppm	0.0050 ppm	0.2203 ppm	0.0019 ppm	4.1428 ppm
Concentration per Run 1	-0.0005 ppm	24.1091 ppm	0.0357 ppm	0.0054 ppm	0.2209 ppm	0.0019 ppm	4.1453 ppm
Concentration per Run 2	0.0002 ppm	24.1650 ppm	0.0347 ppm	0.0044 ppm	0.2207 ppm	0.0019 ppm	4.1515 ppm
Concentration per Run 3	0.0000 ppm	23.9463 ppm	0.0352 ppm	0.0052 ppm	0.2194 ppm	0.0018 ppm	4.1316 ppm
Concentration RSD	383.4 %	0.5 %	1.4 %	10.6 %	0.4 %	1.0 %	0.2 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0018 ppm	0.0134 ppm	0.0681 ppm	0.0569 ppm	54.8939 ppm	2.3515 ppm	0.0211 ppm
Concentration per Run 1	0.0019 ppm	0.0133 ppm	0.0685 ppm	0.0569 ppm	54.9923 ppm	2.3756 ppm	0.0214 ppm
Concentration per Run 2	0.0018 ppm	0.0139 ppm	0.0680 ppm	0.0572 ppm	54.9448 ppm	2.3617 ppm	0.0212 ppm
Concentration per Run 3	0.0018 ppm	0.0129 ppm	0.0678 ppm	0.0567 ppm	54.7446 ppm	2.3173 ppm	0.0206 ppm
Concentration RSD	2.5 %	4.0 %	0.5 %	0.5 %	0.2 %	1.3 %	1.9 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	3.4641 ppm	0.8195 ppm	0.0022 ppm	0.1811 ppm	0.0291 ppm	0.4662 ppm	0.0039 ppm
Concentration per Run 1	3.4710 ppm	0.8196 ppm	0.0016 ppm	0.1803 ppm	0.0296 ppm	0.4646 ppm	0.0043 ppm
Concentration per Run 2	3.4683 ppm	0.8222 ppm	0.0025 ppm	0.1848 ppm	0.0287 ppm	0.4662 ppm	0.0034 ppm
Concentration per Run 3	3.4529 ppm	0.8168 ppm	0.0024 ppm	0.1782 ppm	0.0291 ppm	0.4677 ppm	0.0040 ppm
Concentration RSD	0.3 %	0.3 %	21.3 %	1.9 %	1.5 %	0.3 %	11.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0008 ppm	14.6929 ppm	0.0198 ppm	0.0204 ppm	0.7376 ppm	-0.0003 ppm	0.0910 ppm
Concentration per Run 1	0.0002 ppm	14.5557 ppm	0.0202 ppm	0.0202 ppm	0.7110 ppm	-0.0001 ppm	0.0910 ppm
Concentration per Run 2	0.0005 ppm	14.9321 ppm	0.0196 ppm	0.0206 ppm	0.7420 ppm	0.0002 ppm	0.0914 ppm
Concentration per Run 3	0.0018 ppm	14.5909 ppm	0.0196 ppm	0.0204 ppm	0.7599 ppm	-0.0012 ppm	0.0908 ppm
Concentration RSD	95.8 %	1.4 %	1.9 %	0.9 %	3.4 %	220.8 %	0.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2732 ppm	99.7597 %	100.8868 %	94.8068 %	101.9226 %	103.3172 %	100.8845 %
Concentration per Run 1	0.2732 ppm	100.4788 %	100.9254 %	95.1051 %	102.3813 %	103.1987 %	101.2242 %
Concentration per Run 2	0.2734 ppm	99.1032 %	100.7983 %	94.9239 %	101.0695 %	103.4358 %	100.9775 %
Concentration per Run 3	0.2731 ppm	99.6971 %	100.9368 %	94.3913 %	102.3172 %	103.3172 %	100.4518 %
Concentration RSD	0.0 %	0.7 %	0.1 %	0.4 %	0.7 %	0.1 %	0.4 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: WG2084191-3d2 WG2084191
 Analysis started at: 6/27/2025 12:17:58 PM
 Rack: 1
 Vial: 16
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0565 ppm	27.2480 ppm	0.1491 ppm	0.9764 ppm	2.4045 ppm	0.0566 ppm	13.7498 ppm
Concentration per Run 1	0.0568 ppm	27.2593 ppm	0.1490 ppm	0.9778 ppm	2.4099 ppm	0.0566 ppm	13.7009 ppm
Concentration per Run 2	0.0565 ppm	27.3612 ppm	0.1496 ppm	0.9826 ppm	2.4088 ppm	0.0566 ppm	13.7257 ppm
Concentration per Run 3	0.0563 ppm	27.1233 ppm	0.1488 ppm	0.9689 ppm	2.3946 ppm	0.0565 ppm	13.8228 ppm
Concentration RSD	0.4 %	0.4 %	0.3 %	0.7 %	0.4 %	0.1 %	0.5 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0492 ppm	0.5330 ppm	0.2805 ppm	0.3099 ppm	44.7614 ppm	12.4818 ppm	0.0224 ppm
Concentration per Run 1	0.0488 ppm	0.5317 ppm	0.2811 ppm	0.3078 ppm	44.7377 ppm	12.5408 ppm	0.0231 ppm
Concentration per Run 2	0.0496 ppm	0.5357 ppm	0.2815 ppm	0.3101 ppm	44.7041 ppm	12.5311 ppm	0.0225 ppm
Concentration per Run 3	0.0491 ppm	0.5315 ppm	0.2789 ppm	0.3118 ppm	44.8425 ppm	12.3736 ppm	0.0216 ppm
Concentration RSD	0.8 %	0.4 %	0.5 %	0.6 %	0.2 %	0.8 %	3.3 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	13.5336 ppm	1.2212 ppm	0.9954 ppm	10.9658 ppm	0.5770 ppm	0.9825 ppm	0.3565 ppm
Concentration per Run 1	13.6225 ppm	1.2148 ppm	0.9968 ppm	10.9696 ppm	0.5809 ppm	0.9802 ppm	0.3578 ppm
Concentration per Run 2	13.5345 ppm	1.2235 ppm	0.9974 ppm	11.0873 ppm	0.5791 ppm	0.9785 ppm	0.3558 ppm
Concentration per Run 3	13.4437 ppm	1.2253 ppm	0.9918 ppm	10.8406 ppm	0.5710 ppm	0.9887 ppm	0.3559 ppm
Concentration RSD	0.7 %	0.5 %	0.3 %	1.1 %	0.9 %	0.6 %	0.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.1156 ppm	16.1143 ppm	0.9880 ppm	1.0127 ppm	1.5941 ppm	0.1201 ppm	0.5960 ppm
Concentration per Run 1	0.1111 ppm	15.9529 ppm	0.9888 ppm	1.0126 ppm	1.5951 ppm	0.1204 ppm	0.5950 ppm
Concentration per Run 2	0.1193 ppm	16.2119 ppm	0.9943 ppm	1.0144 ppm	1.5926 ppm	0.1205 ppm	0.5971 ppm
Concentration per Run 3	0.1164 ppm	16.1782 ppm	0.9808 ppm	1.0110 ppm	1.5947 ppm	0.1194 ppm	0.5958 ppm
Concentration RSD	3.6 %	0.9 %	0.7 %	0.2 %	0.1 %	0.5 %	0.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7837 ppm	97.8352 %	100.2622 %	91.7574 %	99.5487 %	102.2372 %	98.5195 %
Concentration per Run 1	0.7885 ppm	97.7825 %	100.1603 %	92.1347 %	100.1428 %	102.2449 %	98.6840 %
Concentration per Run 2	0.7872 ppm	97.5100 %	100.2401 %	91.4227 %	99.0868 %	102.3388 %	98.2577 %
Concentration per Run 3	0.7753 ppm	98.2132 %	100.3863 %	91.7148 %	99.4164 %	102.1279 %	98.6168 %
Concentration RSD	0.9 %	0.4 %	0.1 %	0.4 %	0.5 %	0.1 %	0.2 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: WG2084191-4d2 WG2084191
 Analysis started at: 6/27/2025 12:21:10 PM
 Rack: 1
 Vial: 17
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0571 ppm	26.6756 ppm	0.1481 ppm	0.9731 ppm	2.4376 ppm	0.0574 ppm	14.3068 ppm
Concentration per Run 1	0.0572 ppm	26.7299 ppm	0.1474 ppm	0.9732 ppm	2.4399 ppm	0.0575 ppm	14.3557 ppm
Concentration per Run 2	0.0569 ppm	26.6218 ppm	0.1500 ppm	0.9733 ppm	2.4329 ppm	0.0571 ppm	14.2487 ppm
Concentration per Run 3	0.0572 ppm	26.6752 ppm	0.1471 ppm	0.9727 ppm	2.4401 ppm	0.0575 ppm	14.3160 ppm
Concentration RSD	0.3 %	0.2 %	1.1 %	0.0 %	0.2 %	0.4 %	0.4 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0499 ppm	0.5392 ppm	0.2800 ppm	0.3111 ppm	44.4283 ppm	12.3649 ppm	0.0214 ppm
Concentration per Run 1	0.0505 ppm	0.5424 ppm	0.2802 ppm	0.3126 ppm	44.5557 ppm	12.4535 ppm	0.0213 ppm
Concentration per Run 2	0.0496 ppm	0.5372 ppm	0.2794 ppm	0.3101 ppm	44.1566 ppm	12.3235 ppm	0.0211 ppm
Concentration per Run 3	0.0496 ppm	0.5381 ppm	0.2803 ppm	0.3106 ppm	44.5727 ppm	12.3176 ppm	0.0217 ppm
Concentration RSD	1.0 %	0.5 %	0.2 %	0.4 %	0.5 %	0.6 %	1.3 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	13.4906 ppm	1.2474 ppm	1.0012 ppm	10.9590 ppm	0.5804 ppm	1.0004 ppm	0.3518 ppm
Concentration per Run 1	13.5151 ppm	1.2503 ppm	1.0008 ppm	10.9981 ppm	0.5810 ppm	0.9955 ppm	0.3541 ppm
Concentration per Run 2	13.4424 ppm	1.2392 ppm	0.9987 ppm	10.9856 ppm	0.5794 ppm	1.0041 ppm	0.3484 ppm
Concentration per Run 3	13.5144 ppm	1.2526 ppm	1.0042 ppm	10.8933 ppm	0.5807 ppm	1.0018 ppm	0.3530 ppm
Concentration RSD	0.3 %	0.6 %	0.3 %	0.5 %	0.1 %	0.4 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.1160 ppm	14.5862 ppm	0.9807 ppm	1.0165 ppm	1.5640 ppm	0.1204 ppm	0.6003 ppm
Concentration per Run 1	0.1168 ppm	14.7860 ppm	0.9817 ppm	1.0153 ppm	1.5515 ppm	0.1187 ppm	0.6045 ppm
Concentration per Run 2	0.1167 ppm	14.5782 ppm	0.9764 ppm	1.0184 ppm	1.5815 ppm	0.1210 ppm	0.5988 ppm
Concentration per Run 3	0.1145 ppm	14.3945 ppm	0.9840 ppm	1.0158 ppm	1.5592 ppm	0.1214 ppm	0.5976 ppm
Concentration RSD	1.1 %	1.3 %	0.4 %	0.2 %	1.0 %	1.2 %	0.6 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7919 ppm	97.8653 %	99.8923 %	92.0718 %	99.6617 %	102.4463 %	99.0159 %
Concentration per Run 1	0.7934 ppm	97.7540 %	99.7943 %	92.0374 %	98.9603 %	102.6790 %	98.5055 %
Concentration per Run 2	0.7902 ppm	98.0499 %	100.1793 %	92.0217 %	99.7339 %	102.5966 %	99.2282 %
Concentration per Run 3	0.7920 ppm	97.7921 %	99.7034 %	92.1563 %	100.2910 %	102.0632 %	99.3140 %
Concentration RSD	0.2 %	0.2 %	0.3 %	0.1 %	0.7 %	0.3 %	0.4 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: WG2084191-5d2 WG2084191
 Analysis started at: 6/27/2025 12:24:21 PM
 Rack: 1
 Vial: 18
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0548 ppm	25.3254 ppm	0.1512 ppm	0.9695 ppm	2.3138 ppm	0.0544 ppm	13.5260 ppm
Concentration per Run 1	0.0548 ppm	25.3335 ppm	0.1520 ppm	0.9738 ppm	2.3216 ppm	0.0545 ppm	13.4924 ppm
Concentration per Run 2	0.0542 ppm	25.2943 ppm	0.1521 ppm	0.9705 ppm	2.3103 ppm	0.0544 ppm	13.4782 ppm
Concentration per Run 3	0.0553 ppm	25.3485 ppm	0.1496 ppm	0.9641 ppm	2.3095 ppm	0.0544 ppm	13.6076 ppm
Concentration RSD	1.0 %	0.1 %	0.9 %	0.5 %	0.3 %	0.2 %	0.5 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0478 ppm	0.5182 ppm	0.2755 ppm	0.3063 ppm	53.2203 ppm	12.3071 ppm	0.0204 ppm
Concentration per Run 1	0.0477 ppm	0.5173 ppm	0.2774 ppm	0.3057 ppm	53.2575 ppm	12.3558 ppm	0.0207 ppm
Concentration per Run 2	0.0477 ppm	0.5211 ppm	0.2757 ppm	0.3063 ppm	53.1217 ppm	12.3545 ppm	0.0206 ppm
Concentration per Run 3	0.0479 ppm	0.5164 ppm	0.2735 ppm	0.3071 ppm	53.2816 ppm	12.2110 ppm	0.0199 ppm
Concentration RSD	0.2 %	0.5 %	0.7 %	0.2 %	0.2 %	0.7 %	2.2 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	13.0875 ppm	1.2988 ppm	0.9823 ppm	10.6677 ppm	0.5577 ppm	0.9599 ppm	0.4442 ppm
Concentration per Run 1	13.0863 ppm	1.2942 ppm	0.9810 ppm	10.6972 ppm	0.5598 ppm	0.9632 ppm	0.4414 ppm
Concentration per Run 2	13.1408 ppm	1.2968 ppm	0.9860 ppm	10.6926 ppm	0.5597 ppm	0.9603 ppm	0.4437 ppm
Concentration per Run 3	13.0354 ppm	1.3055 ppm	0.9800 ppm	10.6132 ppm	0.5537 ppm	0.9562 ppm	0.4474 ppm
Concentration RSD	0.4 %	0.5 %	0.3 %	0.4 %	0.6 %	0.4 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.1166 ppm	15.4949 ppm	1.0041 [SIC 20]	0.9842 ppm	1.6961 ppm	0.1168 ppm	0.5866 ppm
Concentration per Run 1	0.1162 ppm	15.8798 ppm	1.0045 ppm	0.9811 ppm	1.6804 ppm	0.1162 ppm	0.5853 ppm
Concentration per Run 2	0.1172 ppm	15.4619 ppm	1.0099 ppm	0.9848 ppm	1.7307 ppm	0.1184 ppm	0.5865 ppm
Concentration per Run 3	0.1163 ppm	15.1430 ppm	0.9980 ppm	0.9866 ppm	1.6772 ppm	0.1159 ppm	0.5881 ppm
Concentration RSD	0.4 %	2.4 %	0.6 %	0.3 %	1.8 %	1.1 %	0.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7822 ppm	99.0874 %	100.6765 %	92.1192 %	101.1132 %	102.9429 %	98.9633 %
Concentration per Run 1	0.7847 ppm	98.5542 %	100.7040 %	92.4773 %	101.1568 %	102.9804 %	100.0022 %
Concentration per Run 2	0.7842 ppm	99.1633 %	101.2524 %	91.7344 %	101.5369 %	103.1946 %	98.2424 %
Concentration per Run 3	0.7776 ppm	99.5446 %	100.0731 %	92.1459 %	100.6459 %	102.6539 %	98.6453 %
Concentration RSD	0.5 %	0.5 %	0.6 %	0.4 %	0.4 %	0.3 %	0.9 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: xWG2084191-6d10 WG2084191
 Analysis started at: 6/27/2025 12:27:34 PM
 Rack: 1
 Vial: 19
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0003 ppm	4.8343 ppm	-- ppm	0.0003 ppm	0.0436 ppm	0.0004 ppm	0.8287 ppm
Concentration per Run 1	0.0010 ppm	4.8527 ppm	-- ppm	0.0009 ppm	0.0437 ppm	0.0004 ppm	0.8330 ppm
Concentration per Run 2	0.0000 ppm	4.8361 ppm	0.0068 ppm	0.0007 ppm	0.0439 ppm	0.0004 ppm	0.8281 ppm
Concentration per Run 3	0.0000 ppm	4.8142 ppm	0.0066 ppm	-0.0006 ppm	0.0434 ppm	0.0004 ppm	0.8250 ppm
Concentration RSD	160.0 %	0.4 %		248.0 %	0.6 %	0.7 %	0.5 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0005 ppm	0.0023 ppm	0.0097 ppm	-- [SIC 60]	11.2710 ppm	0.4725 ppm	0.0047 ppm
Concentration per Run 1	0.0005 ppm	0.0022 ppm	0.0007 ppm	-- ppm	11.2717 ppm	0.4707 ppm	0.0050 ppm
Concentration per Run 2	0.0005 ppm	0.0023 ppm	0.0139 ppm	0.0121 ppm	11.3082 ppm	0.4758 ppm	0.0043 ppm
Concentration per Run 3	0.0005 ppm	0.0024 ppm	0.0145 ppm	0.0122 ppm	11.2329 ppm	0.4710 ppm	0.0048 ppm
Concentration RSD	4.5 %	4.5 %	80.5 %		0.3 %	0.6 %	7.9 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.6986 ppm	0.1630 ppm	0.0043 ppm	0.0409 ppm	0.0043 ppm	-- ppm	-- ppm
Concentration per Run 1	0.6987 ppm	0.1628 ppm	0.0043 ppm	0.0397 ppm	0.0003 ppm	-- ppm	-- ppm
Concentration per Run 2	0.6971 ppm	0.1629 ppm	0.0047 ppm	0.0429 ppm	0.0060 ppm	0.0930 ppm	0.0036 ppm
Concentration per Run 3	0.7001 ppm	0.1633 ppm	0.0040 ppm	0.0401 ppm	0.0066 ppm	0.0936 ppm	0.0055 ppm
Concentration RSD	0.2 %	0.1 %	7.4 %	4.3 %	81.3 %		

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-- ppm	2.0472 ppm	0.0024 ppm	0.0041 ppm	0.1005 ppm	-- ppm	-- [SIC 10]
Concentration per Run 1	-- ppm	-0.0126 ppm	-0.0013 ppm	0.0042 ppm	0.0006 ppm	-- ppm	-- ppm
Concentration per Run 2	-0.0027 ppm	3.0762 ppm	0.0040 ppm	0.0041 ppm	0.1547 ppm	0.0009 ppm	0.0189 ppm
Concentration per Run 3	0.0004 ppm	3.0781 ppm	0.0045 ppm	0.0041 ppm	0.1462 ppm	-0.0013 ppm	0.0184 ppm
Concentration RSD		87.1 %	134.2 %	1.0 %	86.2 %		

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0351 ppm	101.5858 %	101.9774 %	66.5327 %	66.9111 %	102.2369 %	66.8324 %
Concentration per Run 1	-0.0019 ppm	100.7422 %	101.6746 %	0.0000 %	0.0000 %	102.2176 %	0.0000 %
Concentration per Run 2	0.0534 ppm	102.7241 %	101.7080 %	100.4713 %	100.8891 %	101.8303 %	100.6278 %
Concentration per Run 3	0.0538 ppm	101.2912 %	102.5497 %	99.1269 %	99.8441 %	102.6628 %	99.8693 %
Concentration RSD	91.2 %	1.0 %	0.5 %	86.6 %	86.6 %	0.4 %	86.6 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: CCV
Analysis started at: 6/27/2025 12:31:47 PM
Rack: 0
Vial: 3
Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.5294 ppm	0.4876 ppm	0.4747 ppm	0.4957 ppm	0.5002 ppm	0.5020 ppm	0.4971 ppm
Concentration per Run 1	0.5288 ppm	0.4895 ppm	0.4726 ppm	0.4949 ppm	0.4988 ppm	0.5008 ppm	0.4992 ppm
Concentration per Run 2	0.5308 ppm	0.4831 ppm	0.4763 ppm	0.4977 ppm	0.5033 ppm	0.5011 ppm	0.4947 ppm
Concentration per Run 3	0.5285 ppm	0.4904 ppm	0.4753 ppm	0.4946 ppm	0.4985 ppm	0.5042 ppm	0.4972 ppm
Recovery Percentage 1	105.875 %	97.530 %	94.947 %	99.144 %	100.041 %	100.408 %	99.413 %
Concentration RSD	0.2 %	0.8 %	0.4 %	0.3 %	0.5 %	0.4 %	0.5 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.4766 ppm	0.5004 ppm	0.5168 ppm	0.4960 ppm	0.5035 ppm	5.0904 ppm	0.5136 ppm
Concentration per Run 1	0.4798 ppm	0.5023 ppm	0.5154 ppm	0.4957 ppm	0.5003 ppm	5.0495 ppm	0.5093 ppm
Concentration per Run 2	0.4751 ppm	0.4999 ppm	0.5189 ppm	0.4978 ppm	0.5030 ppm	5.1278 ppm	0.5200 ppm
Concentration per Run 3	0.4749 ppm	0.4988 ppm	0.5161 ppm	0.4946 ppm	0.5073 ppm	5.0940 ppm	0.5116 ppm
Recovery Percentage 1	95.319 %	100.073 %	103.359 %	99.208 %	100.708 %	101.808 %	102.729 %
Concentration RSD	0.6 %	0.4 %	0.4 %	0.3 %	0.7 %	0.8 %	1.1 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.5166 ppm	0.5002 ppm	0.5012 ppm	10.1446 ppm	0.5197 ppm	0.5042 ppm	0.4891 ppm
Concentration per Run 1	0.5170 ppm	0.5004 ppm	0.5023 ppm	10.1052 ppm	0.5195 ppm	0.5028 ppm	0.4960 ppm
Concentration per Run 2	0.5161 ppm	0.4974 ppm	0.5019 ppm	10.2576 ppm	0.5216 ppm	0.5036 ppm	0.4887 ppm
Concentration per Run 3	0.5168 ppm	0.5028 ppm	0.4994 ppm	10.0711 ppm	0.5178 ppm	0.5063 ppm	0.4826 ppm
Recovery Percentage 1	103.324 %	100.040 %	100.235 %	101.446 %	103.931 %	100.845 %	97.814 %
Concentration RSD	0.1 %	0.5 %	0.3 %	1.0 %	0.4 %	0.4 %	1.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.4867 ppm	5.3734 ppm	0.5089 ppm	0.5034 ppm	0.5124 ppm	0.5086 ppm	0.4901 ppm
Concentration per Run 1	0.4871 ppm	5.3758 ppm	0.5104 ppm	0.4995 ppm	0.5121 ppm	0.5093 ppm	0.4894 ppm
Concentration per Run 2	0.4858 ppm	5.3741 ppm	0.5076 ppm	0.5051 ppm	0.5132 ppm	0.5080 ppm	0.4909 ppm
Concentration per Run 3	0.4872 ppm	5.3701 ppm	0.5087 ppm	0.5056 ppm	0.5121 ppm	0.5085 ppm	0.4900 ppm
Recovery Percentage 1	97.339 %	102.350 %	101.778 %	100.676 %	102.489 %	101.719 %	98.017 %
Concentration RSD	0.2 %	0.1 %	0.3 %	0.7 %	0.1 %	0.1 %	0.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5087 ppm	100.9214 %	100.8229 %	98.1074 %	99.3867 %	99.2162 %	97.6519 %
Concentration per Run 1	0.5092 ppm	100.9519 %	101.2751 %	98.0821 %	99.6276 %	99.6699 %	97.5901 %
Concentration per Run 2	0.5085 ppm	100.9239 %	101.4477 %	98.3198 %	99.2356 %	99.6127 %	97.8122 %
Concentration per Run 3	0.5083 ppm	100.8884 %	99.7460 %	97.9204 %	99.2968 %	98.3660 %	97.5535 %
Recovery Percentage 1	101.741 %						
Concentration RSD	0.1 %	0.0 %	0.9 %	0.2 %	0.2 %	0.7 %	0.1 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: CCB
 Analysis started at: 6/27/2025 12:35:00 PM
 Rack: 0
 Vial: 4
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0001 ppm	0.0043 ppm	-0.0012 ppm	-0.0013 ppm	0.0001 ppm	0.0000 ppm	0.0019 ppm
Concentration per Run 1	0.0006 ppm	0.0058 ppm	-0.0006 ppm	-0.0019 ppm	0.0000 ppm	0.0000 ppm	0.0031 ppm
Concentration per Run 2	0.0000 ppm	0.0050 ppm	-0.0016 ppm	-0.0009 ppm	0.0001 ppm	0.0000 ppm	0.0030 ppm
Concentration per Run 3	-0.0004 ppm	0.0020 ppm	-0.0013 ppm	-0.0010 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm
Recovery Percentage 1	1.215 %	4.294 %	-23.085 %	-4.273 %	0.500 %	0.488 %	1.925 %
Concentration RSD	574.7 %	46.3 %	45.1 %	41.1 %	19.7 %	110.7 %	97.5 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0001 ppm	0.0000 ppm	0.0003 ppm	0.0002 ppm	0.0010 ppm	0.0060 ppm	0.0000 ppm
Concentration per Run 1	0.0001 ppm	0.0000 ppm	0.0006 ppm	0.0001 ppm	0.0001 ppm	0.0077 ppm	-0.0003 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	-0.0001 ppm	0.0004 ppm	0.0013 ppm	0.0054 ppm	0.0004 ppm
Concentration per Run 3	0.0001 ppm	0.0002 ppm	0.0003 ppm	0.0003 ppm	0.0017 ppm	0.0049 ppm	-0.0002 ppm
Recovery Percentage 1	1.804 %	0.147 %	2.747 %	2.421 %	2.011 %	0.240 %	-0.615 %
Concentration RSD	42.4 %	493.5 %	122.2 %	55.9 %	83.6 %	24.2 %	1,186.9 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	-0.0003 ppm	0.0002 ppm	0.0028 ppm	0.0008 ppm	-0.0001 ppm	-0.0002 ppm	-0.0006 ppm
Concentration per Run 1	-0.0008 ppm	0.0001 ppm	0.0027 ppm	0.0015 ppm	0.0001 ppm	-0.0002 ppm	-0.0028 ppm
Concentration per Run 2	-0.0006 ppm	0.0002 ppm	0.0030 ppm	-0.0006 ppm	-0.0003 ppm	0.0003 ppm	0.0014 ppm
Concentration per Run 3	0.0006 ppm	0.0003 ppm	0.0029 ppm	0.0017 ppm	-0.0001 ppm	-0.0006 ppm	-0.0004 ppm
Recovery Percentage 1	-0.279 %	1.730 %	5.696 %	0.042 %	-0.365 %	-1.664 %	-1.189 %
Concentration RSD	274.0 %	50.6 %	5.4 %	148.9 %	248.0 %	276.9 %	357.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0008 ppm	0.0034 ppm	0.0001 ppm	0.0000 ppm	0.0004 ppm	-0.0002 ppm	0.0000 ppm
Concentration per Run 1	-0.0001 ppm	0.0024 ppm	0.0003 ppm	0.0000 ppm	0.0005 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 2	0.0016 ppm	0.0044 ppm	0.0002 ppm	0.0000 ppm	0.0004 ppm	-0.0003 ppm	0.0000 ppm
Concentration per Run 3	0.0010 ppm	0.0034 ppm	-0.0003 ppm	0.0000 ppm	0.0003 ppm	-0.0002 ppm	0.0000 ppm
Recovery Percentage 1	8.136 %	0.676 %	0.192 %	0.018 %	4.225 %	-0.845 %	0.330 %
Concentration RSD	106.2 %	29.1 %	323.5 %	1,683.2 %	29.2 %	77.7 %	220.7 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0006 ppm	100.2146 %	99.6680 %	98.5168 %	100.4769 %	99.8464 %	98.8013 %
Concentration per Run 1	-0.0006 ppm	100.3186 %	98.5543 %	98.2371 %	100.4241 %	98.6287 %	98.4747 %
Concentration per Run 2	-0.0006 ppm	100.1532 %	99.3711 %	98.5349 %	100.5416 %	99.4748 %	98.4619 %
Concentration per Run 3	-0.0006 ppm	100.1719 %	101.0785 %	98.7784 %	100.4652 %	101.4357 %	99.4673 %
Recovery Percentage 1	-11.532 %						
Concentration RSD	4.6 %	0.1 %	1.3 %	0.3 %	0.1 %	1.4 %	0.6 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2539739-03d2 WG2084191
 Analysis started at: 6/27/2025 12:42:51 PM
 Rack: 1
 Vial: 23
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0006 ppm	32.6628 ppm	0.0566 ppm	0.0059 ppm	0.2268 ppm	0.0024 ppm	1.8551 ppm
Concentration per Run 1	0.0005 ppm	32.6206 ppm	0.0555 ppm	0.0072 ppm	0.2275 ppm	0.0024 ppm	1.8641 ppm
Concentration per Run 2	0.0005 ppm	32.6664 ppm	0.0564 ppm	0.0060 ppm	0.2262 ppm	0.0024 ppm	1.8286 ppm
Concentration per Run 3	0.0007 ppm	32.7014 ppm	0.0578 ppm	0.0046 ppm	0.2266 ppm	0.0024 ppm	1.8726 ppm
Concentration RSD	17.0 %	0.1 %	2.0 %	21.3 %	0.3 %	0.3 %	1.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0011 ppm	0.0117 ppm	0.0479 ppm	0.0560 ppm	49.7690 ppm	2.2904 ppm	0.0228 ppm
Concentration per Run 1	0.0011 ppm	0.0119 ppm	0.0481 ppm	0.0563 ppm	49.7057 ppm	2.2724 ppm	0.0228 ppm
Concentration per Run 2	0.0011 ppm	0.0119 ppm	0.0482 ppm	0.0554 ppm	49.5346 ppm	2.2970 ppm	0.0228 ppm
Concentration per Run 3	0.0010 ppm	0.0114 ppm	0.0473 ppm	0.0562 ppm	50.0667 ppm	2.3017 ppm	0.0229 ppm
Concentration RSD	4.1 %	2.4 %	1.1 %	0.9 %	0.5 %	0.7 %	0.2 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	3.2309 ppm	1.7383 ppm	0.0030 ppm	0.1202 ppm	0.0269 ppm	0.1199 ppm	0.0052 ppm
Concentration per Run 1	3.2354 ppm	1.7438 ppm	0.0031 ppm	0.1151 ppm	0.0275 ppm	0.1188 ppm	0.0044 ppm
Concentration per Run 2	3.2450 ppm	1.7186 ppm	0.0032 ppm	0.1243 ppm	0.0271 ppm	0.1204 ppm	0.0034 ppm
Concentration per Run 3	3.2125 ppm	1.7526 ppm	0.0026 ppm	0.1212 ppm	0.0261 ppm	0.1206 ppm	0.0077 ppm
Concentration RSD	0.5 %	1.0 %	11.4 %	3.9 %	2.6 %	0.8 %	43.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0021 ppm	14.4853 ppm	0.0068 ppm	0.0168 ppm	0.6487 ppm	-0.0014 ppm	0.0872 ppm
Concentration per Run 1	0.0031 ppm	14.4761 ppm	0.0063 ppm	0.0169 ppm	0.6463 ppm	-0.0007 ppm	0.0876 ppm
Concentration per Run 2	0.0019 ppm	14.4354 ppm	0.0076 ppm	0.0165 ppm	0.6367 ppm	-0.0018 ppm	0.0867 ppm
Concentration per Run 3	0.0014 ppm	14.5445 ppm	0.0065 ppm	0.0170 ppm	0.6629 ppm	-0.0018 ppm	0.0874 ppm
Concentration RSD	40.3 %	0.4 %	10.2 %	1.5 %	2.0 %	46.4 %	0.5 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1799 ppm	100.6084 %	100.5563 %	95.4918 %	102.8946 %	104.6899 %	102.8283 %
Concentration per Run 1	0.1804 ppm	100.7150 %	100.7823 %	95.7772 %	102.6647 %	104.9438 %	103.2501 %
Concentration per Run 2	0.1820 ppm	99.6989 %	101.3628 %	95.4904 %	102.9601 %	104.5701 %	102.8035 %
Concentration per Run 3	0.1775 ppm	101.4112 %	99.5238 %	95.2079 %	103.0589 %	104.5560 %	102.4314 %
Concentration RSD	1.3 %	0.9 %	0.9 %	0.3 %	0.2 %	0.2 %	0.4 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: xL2539739-04d2 WG2084191
 Analysis started at: 6/27/2025 12:46:11 PM
 Rack: 1
 Vial: 24
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-- ppm	25.3317 ppm	0.0202 ppm	-- [SIC 50]	0.1313 ppm	0.0014 ppm	1.0874 ppm
Concentration per Run 1	-- ppm	25.4133 ppm	0.0213 ppm	-- ppm	0.1316 ppm	0.0014 ppm	1.0834 ppm
Concentration per Run 2	0.0000 ppm	25.3379 ppm	0.0190 ppm	0.0041 ppm	0.1318 ppm	0.0014 ppm	1.0968 ppm
Concentration per Run 3	0.0002 ppm	25.2439 ppm	0.0201 ppm	0.0056 ppm	0.1305 ppm	0.0014 ppm	1.0821 ppm
Concentration RSD		0.3 %	5.8 %		0.6 %	1.0 %	0.7 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-- ppm	-- ppm	-- ppm	0.0249 ppm	39.5876 ppm	1.5606 ppm	0.0177 ppm
Concentration per Run 1	-- ppm	-- ppm	-- ppm	0.0291 ppm	39.5767 ppm	1.5603 ppm	0.0179 ppm
Concentration per Run 2	0.0004 ppm	0.0068 ppm	0.0445 ppm	0.0228 ppm	39.6984 ppm	1.5666 ppm	0.0173 ppm
Concentration per Run 3	0.0005 ppm	0.0065 ppm	0.0444 ppm	0.0228 ppm	39.4875 ppm	1.5549 ppm	0.0178 ppm
Concentration RSD				14.6 %	0.3 %	0.4 %	1.9 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	-- [SIC 700]	0.2934 ppm	-- [SIC 20]	0.0904 ppm	-- [SIC 20]	0.0400 ppm	-0.0007 ppm
Concentration per Run 1	-- ppm	0.2938 ppm	-- ppm	0.0912 ppm	-- ppm	0.0399 ppm	-0.0023 ppm
Concentration per Run 2	2.8398 ppm	0.2937 ppm	0.0018 ppm	0.0955 ppm	0.0182 ppm	0.0404 ppm	-0.0005 ppm
Concentration per Run 3	2.8349 ppm	0.2928 ppm	0.0019 ppm	0.0844 ppm	0.0186 ppm	0.0398 ppm	0.0007 ppm
Concentration RSD		0.2 %		6.2 %		0.8 %	215.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0006 ppm	-- ppm	-- [SIC 20]	0.0098 ppm	-- ppm	-0.0001 ppm	0.0627 ppm
Concentration per Run 1	0.0007 ppm	-- ppm	-- ppm	0.0097 ppm	-- ppm	-0.0005 ppm	0.0626 ppm
Concentration per Run 2	0.0007 ppm	13.8231 ppm	0.0034 ppm	0.0101 ppm	0.5905 ppm	0.0003 ppm	0.0631 ppm
Concentration per Run 3	0.0005 ppm	13.3253 ppm	0.0038 ppm	0.0097 ppm	0.5644 ppm	-0.0002 ppm	0.0624 ppm
Concentration RSD	20.5 %			2.4 %		266.7 %	0.5 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-- [SIC 50]	67.6694 %	101.9201 %	96.8385 %	102.1829 %	101.7638 %	100.5154 %
Concentration per Run 1	-- ppm	0.0000 %	101.8588 %	96.9345 %	101.4664 %	101.8713 %	100.4976 %
Concentration per Run 2	0.1115 ppm	101.2628 %	101.3712 %	96.4655 %	102.3442 %	101.3453 %	100.4229 %
Concentration per Run 3	0.1109 ppm	101.7456 %	102.5302 %	97.1156 %	102.7381 %	102.0749 %	100.6258 %
Concentration RSD		86.6 %	0.6 %	0.3 %	0.6 %	0.4 %	0.1 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2539742-02d2 WG2084191
 Analysis started at: 6/27/2025 12:49:25 PM
 Rack: 1
 Vial: 25
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0000 ppm	24.4818 ppm	0.0361 ppm	0.0046 ppm	0.2299 ppm	0.0020 ppm	4.4648 ppm
Concentration per Run 1	-0.0003 ppm	24.3895 ppm	0.0367 ppm	0.0047 ppm	0.2296 ppm	0.0020 ppm	4.4479 ppm
Concentration per Run 2	0.0002 ppm	24.4803 ppm	0.0358 ppm	0.0045 ppm	0.2290 ppm	0.0020 ppm	4.4656 ppm
Concentration per Run 3	0.0000 ppm	24.5756 ppm	0.0357 ppm	0.0045 ppm	0.2311 ppm	0.0020 ppm	4.4809 ppm
Concentration RSD	676.0 %	0.4 %	1.6 %	1.9 %	0.5 %	0.6 %	0.4 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0018 ppm	0.0099 ppm	0.0680 ppm	0.0523 ppm	48.2066 ppm	1.9867 ppm	0.0193 ppm
Concentration per Run 1	0.0019 ppm	0.0099 ppm	0.0674 ppm	0.0523 ppm	48.2080 ppm	1.9533 ppm	0.0194 ppm
Concentration per Run 2	0.0019 ppm	0.0098 ppm	0.0676 ppm	0.0522 ppm	48.2715 ppm	2.0009 ppm	0.0191 ppm
Concentration per Run 3	0.0018 ppm	0.0100 ppm	0.0689 ppm	0.0525 ppm	48.1405 ppm	2.0060 ppm	0.0196 ppm
Concentration RSD	3.2 %	1.1 %	1.2 %	0.3 %	0.1 %	1.5 %	1.2 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	3.2158 ppm	0.7194 ppm	0.0020 ppm	0.1341 ppm	0.0243 ppm	0.4964 ppm	0.0043 ppm
Concentration per Run 1	3.2095 ppm	0.7180 ppm	0.0017 ppm	0.1378 ppm	0.0238 ppm	0.4952 ppm	0.0043 ppm
Concentration per Run 2	3.2149 ppm	0.7203 ppm	0.0019 ppm	0.1328 ppm	0.0250 ppm	0.4965 ppm	0.0036 ppm
Concentration per Run 3	3.2232 ppm	0.7200 ppm	0.0024 ppm	0.1318 ppm	0.0241 ppm	0.4976 ppm	0.0049 ppm
Concentration RSD	0.2 %	0.2 %	18.3 %	2.4 %	2.5 %	0.2 %	15.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0007 ppm	10.7361 ppm	0.0199 ppm	0.0205 ppm	0.6275 ppm	0.0001 ppm	0.0864 ppm
Concentration per Run 1	0.0012 ppm	10.6972 ppm	0.0195 ppm	0.0203 ppm	0.6285 ppm	-0.0005 ppm	0.0866 ppm
Concentration per Run 2	0.0015 ppm	10.7448 ppm	0.0188 ppm	0.0206 ppm	0.6293 ppm	0.0011 ppm	0.0867 ppm
Concentration per Run 3	-0.0004 ppm	10.7664 ppm	0.0212 ppm	0.0204 ppm	0.6247 ppm	-0.0003 ppm	0.0860 ppm
Concentration RSD	138.9 %	0.3 %	6.1 %	0.7 %	0.4 %	1,435.9 %	0.5 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2321 ppm	100.5665 %	102.2330 %	95.6462 %	102.6579 %	104.9614 %	101.5672 %
Concentration per Run 1	0.2302 ppm	101.0514 %	102.2281 %	95.5679 %	103.0175 %	104.5800 %	101.5787 %
Concentration per Run 2	0.2323 ppm	100.5510 %	102.4426 %	95.2434 %	103.1240 %	105.1500 %	101.2747 %
Concentration per Run 3	0.2337 ppm	100.0969 %	102.0281 %	96.1274 %	101.8322 %	105.1542 %	101.8484 %
Concentration RSD	0.8 %	0.5 %	0.2 %	0.5 %	0.7 %	0.3 %	0.3 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2539742-03d2 WG2084191
 Analysis started at: 6/27/2025 12:52:36 PM
 Rack: 1
 Vial: 26
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0002 ppm	19.0699 ppm	0.0313 ppm	0.0048 ppm	0.2044 ppm	0.0015 ppm	3.9578 ppm
Concentration per Run 1	-0.0001 ppm	19.0291 ppm	0.0306 ppm	0.0037 ppm	0.2041 ppm	0.0016 ppm	3.9570 ppm
Concentration per Run 2	0.0005 ppm	19.0978 ppm	0.0315 ppm	0.0060 ppm	0.2049 ppm	0.0016 ppm	3.9547 ppm
Concentration per Run 3	0.0001 ppm	19.0829 ppm	0.0318 ppm	0.0047 ppm	0.2042 ppm	0.0015 ppm	3.9615 ppm
Concentration RSD	168.5 %	0.2 %	2.0 %	24.2 %	0.2 %	1.0 %	0.1 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0017 ppm	0.0085 ppm	0.0557 ppm	0.0542 ppm	38.7281 ppm	2.0827 ppm	0.0161 ppm
Concentration per Run 1	0.0017 ppm	0.0084 ppm	0.0558 ppm	0.0539 ppm	38.7264 ppm	2.0890 ppm	0.0168 ppm
Concentration per Run 2	0.0018 ppm	0.0087 ppm	0.0554 ppm	0.0543 ppm	38.6932 ppm	2.0769 ppm	0.0155 ppm
Concentration per Run 3	0.0017 ppm	0.0083 ppm	0.0559 ppm	0.0544 ppm	38.7647 ppm	2.0820 ppm	0.0160 ppm
Concentration RSD	3.2 %	2.5 %	0.5 %	0.4 %	0.1 %	0.3 %	4.2 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	2.6351 ppm	0.7039 ppm	0.0017 ppm	0.1682 ppm	0.0313 ppm	0.4744 ppm	0.0067 ppm
Concentration per Run 1	2.6510 ppm	0.7023 ppm	0.0018 ppm	0.1668 ppm	0.0315 ppm	0.4743 ppm	0.0050 ppm
Concentration per Run 2	2.6339 ppm	0.7031 ppm	0.0017 ppm	0.1689 ppm	0.0311 ppm	0.4750 ppm	0.0070 ppm
Concentration per Run 3	2.6205 ppm	0.7063 ppm	0.0016 ppm	0.1690 ppm	0.0313 ppm	0.4738 ppm	0.0082 ppm
Concentration RSD	0.6 %	0.3 %	6.8 %	0.7 %	0.7 %	0.1 %	24.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0007 ppm	13.8249 ppm	0.0179 ppm	0.0171 ppm	0.6558 ppm	-0.0005 ppm	0.0875 ppm
Concentration per Run 1	0.0020 ppm	13.8324 ppm	0.0181 ppm	0.0171 ppm	0.6442 ppm	-0.0009 ppm	0.0873 ppm
Concentration per Run 2	0.0003 ppm	13.7908 ppm	0.0173 ppm	0.0170 ppm	0.6674 ppm	-0.0002 ppm	0.0877 ppm
Concentration per Run 3	0.0000 ppm	13.8513 ppm	0.0183 ppm	0.0171 ppm	0.6557 ppm	-0.0004 ppm	0.0875 ppm
Concentration RSD	148.5 %	0.2 %	3.0 %	0.3 %	1.8 %	74.6 %	0.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2181 ppm	100.5512 %	101.4053 %	96.6963 %	102.6410 %	103.9652 %	102.4434 %
Concentration per Run 1	0.2202 ppm	99.8625 %	101.4672 %	97.0468 %	102.4527 %	103.7531 %	102.7707 %
Concentration per Run 2	0.2177 ppm	100.7647 %	101.0215 %	97.2418 %	102.6569 %	103.9861 %	102.9922 %
Concentration per Run 3	0.2165 ppm	101.0263 %	101.7273 %	95.8004 %	102.8134 %	104.1563 %	101.5674 %
Concentration RSD	0.9 %	0.6 %	0.4 %	0.8 %	0.2 %	0.2 %	0.7 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2539742-04d2 WG2084191
 Analysis started at: 6/27/2025 12:55:47 PM
 Rack: 1
 Vial: 27
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0002 ppm	21.1465 ppm	0.0226 ppm	0.0035 ppm	0.1286 ppm	0.0012 ppm	1.2051 ppm
Concentration per Run 1	0.0000 ppm	21.1072 ppm	0.0218 ppm	0.0037 ppm	0.1280 ppm	0.0013 ppm	1.2077 ppm
Concentration per Run 2	-0.0004 ppm	21.1421 ppm	0.0221 ppm	0.0019 ppm	0.1284 ppm	0.0012 ppm	1.2084 ppm
Concentration per Run 3	-0.0001 ppm	21.1904 ppm	0.0240 ppm	0.0050 ppm	0.1292 ppm	0.0012 ppm	1.1993 ppm
Concentration RSD	131.2 %	0.2 %	5.2 %	42.7 %	0.5 %	1.8 %	0.4 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0007 ppm	0.0067 ppm	0.0425 ppm	0.0322 ppm	37.3360 ppm	1.5475 ppm	0.0168 ppm
Concentration per Run 1	0.0007 ppm	0.0067 ppm	0.0426 ppm	0.0321 ppm	37.4523 ppm	1.5428 ppm	0.0167 ppm
Concentration per Run 2	0.0007 ppm	0.0069 ppm	0.0422 ppm	0.0322 ppm	37.2517 ppm	1.5304 ppm	0.0168 ppm
Concentration per Run 3	0.0006 ppm	0.0064 ppm	0.0428 ppm	0.0323 ppm	37.3039 ppm	1.5693 ppm	0.0169 ppm
Concentration RSD	12.0 %	3.8 %	0.7 %	0.3 %	0.3 %	1.3 %	0.8 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	2.5354 ppm	0.2197 ppm	0.0017 ppm	0.0932 ppm	0.0196 ppm	0.0266 ppm	0.0012 ppm
Concentration per Run 1	2.5339 ppm	0.2201 ppm	0.0016 ppm	0.0955 ppm	0.0202 ppm	0.0264 ppm	-0.0018 ppm
Concentration per Run 2	2.5384 ppm	0.2200 ppm	0.0020 ppm	0.0912 ppm	0.0193 ppm	0.0264 ppm	0.0032 ppm
Concentration per Run 3	2.5339 ppm	0.2191 ppm	0.0016 ppm	0.0930 ppm	0.0194 ppm	0.0271 ppm	0.0022 ppm
Concentration RSD	0.1 %	0.2 %	13.2 %	2.3 %	2.4 %	1.6 %	219.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0022 ppm	12.1287 ppm	0.0047 ppm	0.0102 ppm	0.5384 ppm	-0.0007 ppm	0.0608 ppm
Concentration per Run 1	0.0025 ppm	12.5941 ppm	0.0054 ppm	0.0100 ppm	0.5450 ppm	0.0000 ppm	0.0604 ppm
Concentration per Run 2	0.0029 ppm	11.9688 ppm	0.0039 ppm	0.0104 ppm	0.5359 ppm	-0.0008 ppm	0.0612 ppm
Concentration per Run 3	0.0011 ppm	11.8234 ppm	0.0049 ppm	0.0102 ppm	0.5342 ppm	-0.0014 ppm	0.0608 ppm
Concentration RSD	43.5 %	3.4 %	15.7 %	1.6 %	1.1 %	96.4 %	0.7 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1304 ppm	101.0273 %	102.1290 %	96.3727 %	102.1426 %	103.4454 %	100.7017 %
Concentration per Run 1	0.1315 ppm	100.6047 %	101.3734 %	96.7072 %	102.6346 %	102.7566 %	100.8789 %
Concentration per Run 2	0.1300 ppm	101.0969 %	102.4702 %	96.6310 %	101.4662 %	103.7945 %	101.4767 %
Concentration per Run 3	0.1298 ppm	101.3804 %	102.5433 %	95.7799 %	102.3270 %	103.7851 %	99.7496 %
Concentration RSD	0.7 %	0.4 %	0.6 %	0.5 %	0.6 %	0.6 %	0.9 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2539742-05d2 WG2084191
 Analysis started at: 6/27/2025 12:58:58 PM
 Rack: 1
 Vial: 28
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0001 ppm	22.6008 ppm	0.0341 ppm	0.0064 ppm	0.1984 ppm	0.0016 ppm	4.9508 ppm
Concentration per Run 1	0.0002 ppm	22.4925 ppm	0.0350 ppm	0.0065 ppm	0.1979 ppm	0.0016 ppm	4.9162 ppm
Concentration per Run 2	0.0000 ppm	22.6775 ppm	0.0336 ppm	0.0065 ppm	0.1982 ppm	0.0016 ppm	4.9942 ppm
Concentration per Run 3	0.0001 ppm	22.6324 ppm	0.0338 ppm	0.0061 ppm	0.1990 ppm	0.0016 ppm	4.9421 ppm
Concentration RSD	114.9 %	0.4 %	2.2 %	4.1 %	0.3 %	0.4 %	0.8 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0015 ppm	0.0091 ppm	0.0564 ppm	0.0626 ppm	43.9812 ppm	2.2503 ppm	0.0195 ppm
Concentration per Run 1	0.0015 ppm	0.0093 ppm	0.0566 ppm	0.0618 ppm	43.7559 ppm	2.2574 ppm	0.0198 ppm
Concentration per Run 2	0.0015 ppm	0.0092 ppm	0.0564 ppm	0.0627 ppm	44.2210 ppm	2.2256 ppm	0.0195 ppm
Concentration per Run 3	0.0015 ppm	0.0089 ppm	0.0562 ppm	0.0632 ppm	43.9666 ppm	2.2678 ppm	0.0194 ppm
Concentration RSD	2.3 %	2.3 %	0.3 %	1.1 %	0.5 %	1.0 %	1.1 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	3.3258 ppm	0.6711 ppm	0.0028 ppm	0.1369 ppm	0.0252 ppm	2.2205 ppm	0.0136 ppm
Concentration per Run 1	3.3291 ppm	0.6685 ppm	0.0027 ppm	0.1380 ppm	0.0251 ppm	2.2207 ppm	0.0132 ppm
Concentration per Run 2	3.3257 ppm	0.6724 ppm	0.0029 ppm	0.1368 ppm	0.0252 ppm	2.2235 ppm	0.0137 ppm
Concentration per Run 3	3.3227 ppm	0.6724 ppm	0.0027 ppm	0.1359 ppm	0.0254 ppm	2.2175 ppm	0.0138 ppm
Concentration RSD	0.1 %	0.3 %	3.1 %	0.8 %	0.5 %	0.1 %	2.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0015 ppm	11.1890 ppm	0.0138 ppm	0.0258 ppm	0.5799 ppm	-0.0007 ppm	0.0816 ppm
Concentration per Run 1	-0.0001 ppm	11.2245 ppm	0.0142 ppm	0.0262 ppm	0.5853 ppm	-0.0003 ppm	0.0806 ppm
Concentration per Run 2	0.0013 ppm	11.1988 ppm	0.0135 ppm	0.0257 ppm	0.5842 ppm	-0.0020 ppm	0.0817 ppm
Concentration per Run 3	0.0032 ppm	11.1438 ppm	0.0137 ppm	0.0256 ppm	0.5703 ppm	0.0004 ppm	0.0824 ppm
Concentration RSD	111.7 %	0.4 %	2.6 %	1.3 %	1.4 %	186.4 %	1.1 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2452 ppm	100.8088 %	102.1719 %	96.0195 %	102.5061 %	104.7391 %	101.9569 %
Concentration per Run 1	0.2459 ppm	100.5554 %	103.1004 %	95.8093 %	103.3213 %	105.4168 %	101.9945 %
Concentration per Run 2	0.2448 ppm	100.6707 %	100.7054 %	96.0603 %	101.6714 %	103.8247 %	102.1526 %
Concentration per Run 3	0.2450 ppm	101.2002 %	102.7099 %	96.1888 %	102.5256 %	104.9757 %	101.7237 %
Concentration RSD	0.2 %	0.3 %	1.3 %	0.2 %	0.8 %	0.8 %	0.2 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2539742-06d2 WG2084191
 Analysis started at: 6/27/2025 1:02:09 PM
 Rack: 1
 Vial: 29
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0002 ppm	21.1045 ppm	0.0351 ppm	0.0074 ppm	0.2118 ppm	0.0015 ppm	5.5640 ppm
Concentration per Run 1	0.0004 ppm	21.0881 ppm	0.0351 ppm	0.0072 ppm	0.2121 ppm	0.0015 ppm	5.5376 ppm
Concentration per Run 2	0.0001 ppm	21.0916 ppm	0.0358 ppm	0.0077 ppm	0.2115 ppm	0.0015 ppm	5.6062 ppm
Concentration per Run 3	0.0002 ppm	21.1337 ppm	0.0343 ppm	0.0071 ppm	0.2116 ppm	0.0015 ppm	5.5482 ppm
Concentration RSD	63.7 %	0.1 %	2.1 %	4.0 %	0.1 %	1.6 %	0.7 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0032 ppm	0.0101 ppm	0.0606 ppm	0.1025 ppm	84.3455 ppm	2.1043 ppm	0.0181 ppm
Concentration per Run 1	0.0031 ppm	0.0102 ppm	0.0608 ppm	0.1027 ppm	84.3550 ppm	2.1180 ppm	0.0182 ppm
Concentration per Run 2	0.0032 ppm	0.0102 ppm	0.0603 ppm	0.1019 ppm	84.8097 ppm	2.0895 ppm	0.0184 ppm
Concentration per Run 3	0.0034 ppm	0.0098 ppm	0.0607 ppm	0.1030 ppm	83.8716 ppm	2.1055 ppm	0.0177 ppm
Concentration RSD	4.7 %	2.1 %	0.4 %	0.5 %	0.6 %	0.7 %	1.9 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	3.0853 ppm	0.8736 ppm	0.0040 ppm	0.1530 ppm	0.0338 ppm	1.0287 ppm	0.0112 ppm
Concentration per Run 1	3.0927 ppm	0.8727 ppm	0.0039 ppm	0.1542 ppm	0.0335 ppm	1.0307 ppm	0.0111 ppm
Concentration per Run 2	3.0904 ppm	0.8773 ppm	0.0039 ppm	0.1527 ppm	0.0344 ppm	1.0308 ppm	0.0109 ppm
Concentration per Run 3	3.0728 ppm	0.8707 ppm	0.0041 ppm	0.1520 ppm	0.0335 ppm	1.0245 ppm	0.0117 ppm
Concentration RSD	0.4 %	0.4 %	3.2 %	0.7 %	1.6 %	0.4 %	3.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0007 ppm	10.8076 ppm	0.0185 ppm	0.0259 ppm	0.5456 ppm	-0.0007 ppm	0.0834 ppm
Concentration per Run 1	0.0003 ppm	10.8039 ppm	0.0190 ppm	0.0262 ppm	0.5444 ppm	-0.0009 ppm	0.0840 ppm
Concentration per Run 2	0.0017 ppm	10.7909 ppm	0.0178 ppm	0.0258 ppm	0.5502 ppm	-0.0006 ppm	0.0828 ppm
Concentration per Run 3	0.0000 ppm	10.8280 ppm	0.0187 ppm	0.0258 ppm	0.5421 ppm	-0.0005 ppm	0.0835 ppm
Concentration RSD	145.4 %	0.2 %	3.5 %	1.0 %	0.8 %	33.9 %	0.7 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3224 ppm	100.9837 %	102.2815 %	94.7817 %	102.3323 %	104.9537 %	100.7794 %
Concentration per Run 1	0.3230 ppm	100.9637 %	102.3058 %	94.1912 %	101.8519 %	104.5581 %	100.2036 %
Concentration per Run 2	0.3230 ppm	100.9699 %	101.5586 %	95.1862 %	103.1145 %	104.7657 %	101.2787 %
Concentration per Run 3	0.3213 ppm	101.0175 %	102.9800 %	94.9677 %	102.0306 %	105.5373 %	100.8558 %
Concentration RSD	0.3 %	0.0 %	0.7 %	0.6 %	0.7 %	0.5 %	0.5 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2539826-01d2 WG2084191
 Analysis started at: 6/27/2025 1:05:21 PM
 Rack: 1
 Vial: 30
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0003 ppm	38.8393 ppm	0.0858 ppm	0.0004 ppm	0.1226 ppm	0.0016 ppm	3.7153 ppm
Concentration per Run 1	-0.0007 ppm	38.7118 ppm	0.0849 ppm	0.0008 ppm	0.1224 ppm	0.0016 ppm	3.6948 ppm
Concentration per Run 2	-0.0001 ppm	38.8503 ppm	0.0862 ppm	0.0008 ppm	0.1225 ppm	0.0017 ppm	3.7142 ppm
Concentration per Run 3	-0.0002 ppm	38.9558 ppm	0.0862 ppm	-0.0002 ppm	0.1230 ppm	0.0016 ppm	3.7368 ppm
Concentration RSD	90.3 %	0.3 %	0.9 %	126.7 %	0.3 %	4.7 %	0.6 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0005 ppm	0.0132 ppm	0.0346 ppm	0.0309 ppm	41.7859 ppm	6.4201 ppm	0.0483 ppm
Concentration per Run 1	0.0004 ppm	0.0130 ppm	0.0345 ppm	0.0309 ppm	41.6392 ppm	6.4310 ppm	0.0491 ppm
Concentration per Run 2	0.0005 ppm	0.0134 ppm	0.0346 ppm	0.0308 ppm	41.8399 ppm	6.4118 ppm	0.0477 ppm
Concentration per Run 3	0.0005 ppm	0.0132 ppm	0.0347 ppm	0.0309 ppm	41.8786 ppm	6.4175 ppm	0.0481 ppm
Concentration RSD	17.8 %	1.4 %	0.3 %	0.1 %	0.3 %	0.2 %	1.5 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	6.9889 ppm	0.5142 ppm	0.0022 ppm	1.7774 ppm	0.0295 ppm	0.0290 ppm	0.0001 ppm
Concentration per Run 1	7.0049 ppm	0.5150 ppm	0.0023 ppm	1.7743 ppm	0.0298 ppm	0.0285 ppm	-0.0004 ppm
Concentration per Run 2	6.9831 ppm	0.5124 ppm	0.0022 ppm	1.7789 ppm	0.0292 ppm	0.0293 ppm	0.0017 ppm
Concentration per Run 3	6.9787 ppm	0.5152 ppm	0.0022 ppm	1.7791 ppm	0.0295 ppm	0.0292 ppm	-0.0010 ppm
Concentration RSD	0.2 %	0.3 %	3.5 %	0.2 %	1.1 %	1.4 %	1,445.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0012 ppm	19.6401 ppm	0.0062 ppm	0.0233 ppm	1.8503 ppm	-0.0012 ppm	0.0465 ppm
Concentration per Run 1	0.0007 ppm	19.8668 ppm	0.0061 ppm	0.0232 ppm	1.8554 ppm	-0.0002 ppm	0.0466 ppm
Concentration per Run 2	0.0007 ppm	19.6333 ppm	0.0060 ppm	0.0231 ppm	1.8485 ppm	-0.0017 ppm	0.0466 ppm
Concentration per Run 3	0.0021 ppm	19.4202 ppm	0.0066 ppm	0.0235 ppm	1.8470 ppm	-0.0016 ppm	0.0462 ppm
Concentration RSD	69.0 %	1.1 %	4.8 %	0.9 %	0.2 %	73.5 %	0.5 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0851 ppm	101.4529 %	102.9517 %	94.6068 %	105.9015 %	108.1805 %	104.0404 %
Concentration per Run 1	0.0857 ppm	101.7051 %	103.6050 %	94.4036 %	106.4340 %	108.6299 %	103.9434 %
Concentration per Run 2	0.0848 ppm	101.8828 %	102.9466 %	95.0449 %	106.0908 %	108.0687 %	104.3023 %
Concentration per Run 3	0.0847 ppm	100.7708 %	102.3034 %	94.3719 %	105.1796 %	107.8430 %	103.8756 %
Concentration RSD	0.7 %	0.6 %	0.6 %	0.4 %	0.6 %	0.4 %	0.2 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2539998-01d2 WG2084191
 Analysis started at: 6/27/2025 1:08:33 PM
 Rack: 1
 Vial: 31
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0000 ppm	27.0457 ppm	0.0106 ppm	0.0046 ppm	0.0692 ppm	0.0007 ppm	10.8446 ppm
Concentration per Run 1	-0.0001 ppm	27.0551 ppm	0.0123 ppm	0.0048 ppm	0.0692 ppm	0.0007 ppm	10.8877 ppm
Concentration per Run 2	-0.0001 ppm	27.0432 ppm	0.0090 ppm	0.0051 ppm	0.0693 ppm	0.0007 ppm	10.7802 ppm
Concentration per Run 3	0.0001 ppm	27.0389 ppm	0.0105 ppm	0.0039 ppm	0.0690 ppm	0.0008 ppm	10.8658 ppm
Concentration RSD	206.4 %	0.0 %	16.0 %	13.3 %	0.2 %	3.4 %	0.5 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0005 ppm	0.0042 ppm	0.0470 ppm	0.0373 ppm	39.0732 ppm	1.2161 ppm	0.0128 ppm
Concentration per Run 1	0.0005 ppm	0.0045 ppm	0.0470 ppm	0.0370 ppm	39.0514 ppm	1.2012 ppm	0.0129 ppm
Concentration per Run 2	0.0006 ppm	0.0036 ppm	0.0473 ppm	0.0376 ppm	39.1074 ppm	1.2314 ppm	0.0127 ppm
Concentration per Run 3	0.0005 ppm	0.0043 ppm	0.0466 ppm	0.0371 ppm	39.0607 ppm	1.2156 ppm	0.0129 ppm
Concentration RSD	15.7 %	10.9 %	0.7 %	0.9 %	0.1 %	1.2 %	0.7 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	2.3223 ppm	0.1429 ppm	0.0027 ppm	0.1705 ppm	0.0140 ppm	0.1010 ppm	0.0011 ppm
Concentration per Run 1	2.3249 ppm	0.1437 ppm	0.0028 ppm	0.1775 ppm	0.0140 ppm	0.1004 ppm	0.0031 ppm
Concentration per Run 2	2.3269 ppm	0.1422 ppm	0.0028 ppm	0.1679 ppm	0.0144 ppm	0.1014 ppm	-0.0010 ppm
Concentration per Run 3	2.3150 ppm	0.1428 ppm	0.0025 ppm	0.1662 ppm	0.0137 ppm	0.1013 ppm	0.0014 ppm
Concentration RSD	0.3 %	0.5 %	5.9 %	3.6 %	2.5 %	0.5 %	177.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0029 ppm	12.5653 ppm	0.0055 ppm	0.0862 ppm	0.8368 ppm	-0.0013 ppm	0.0604 ppm
Concentration per Run 1	0.0041 ppm	12.5640 ppm	0.0056 ppm	0.0866 ppm	0.8332 ppm	-0.0013 ppm	0.0601 ppm
Concentration per Run 2	0.0018 ppm	12.5310 ppm	0.0055 ppm	0.0862 ppm	0.8260 ppm	-0.0010 ppm	0.0609 ppm
Concentration per Run 3	0.0027 ppm	12.6009 ppm	0.0055 ppm	0.0858 ppm	0.8511 ppm	-0.0017 ppm	0.0603 ppm
Concentration RSD	40.6 %	0.3 %	1.5 %	0.5 %	1.5 %	24.8 %	0.7 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0910 ppm	100.5712 %	102.2843 %	95.6819 %	100.5656 %	102.5964 %	99.5569 %
Concentration per Run 1	0.0909 ppm	99.7533 %	101.6593 %	95.1239 %	100.1294 %	102.1922 %	99.0218 %
Concentration per Run 2	0.0914 ppm	100.5520 %	102.5577 %	95.9404 %	100.1760 %	102.7028 %	99.8402 %
Concentration per Run 3	0.0906 ppm	101.4083 %	102.6359 %	95.9814 %	101.3913 %	102.8943 %	99.8086 %
Concentration RSD	0.5 %	0.8 %	0.5 %	0.5 %	0.7 %	0.4 %	0.5 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: WG2084191-6d10 WG2084191
 Analysis started at: 6/27/2025 1:11:46 PM
 Rack: 1
 Vial: 39
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0002 ppm	4.7187 ppm	0.0073 ppm	0.0008 ppm	0.0433 ppm	0.0004 ppm	0.8266 ppm
Concentration per Run 1	0.0001 ppm	4.7322 ppm	0.0078 ppm	0.0012 ppm	0.0435 ppm	0.0004 ppm	0.8238 ppm
Concentration per Run 2	0.0002 ppm	4.7384 ppm	0.0067 ppm	0.0009 ppm	0.0433 ppm	0.0004 ppm	0.8303 ppm
Concentration per Run 3	0.0003 ppm	4.6854 ppm	0.0074 ppm	0.0004 ppm	0.0430 ppm	0.0004 ppm	0.8258 ppm
Concentration RSD	49.7 %	0.6 %	7.7 %	44.1 %	0.6 %	2.4 %	0.4 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0004 ppm	0.0023 ppm	0.0141 ppm	0.0116 ppm	11.3158 ppm	0.4366 ppm	0.0045 ppm
Concentration per Run 1	0.0003 ppm	0.0025 ppm	0.0143 ppm	0.0119 ppm	11.3149 ppm	0.4468 ppm	0.0046 ppm
Concentration per Run 2	0.0004 ppm	0.0021 ppm	0.0139 ppm	0.0116 ppm	11.3441 ppm	0.4363 ppm	0.0050 ppm
Concentration per Run 3	0.0005 ppm	0.0023 ppm	0.0140 ppm	0.0114 ppm	11.2883 ppm	0.4268 ppm	0.0039 ppm
Concentration RSD	15.6 %	7.8 %	1.5 %	2.0 %	0.2 %	2.3 %	13.0 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.6891 ppm	0.1622 ppm	0.0005 ppm	0.0292 ppm	0.0059 ppm	0.0922 ppm	0.0010 ppm
Concentration per Run 1	0.6933 ppm	0.1624 ppm	0.0001 ppm	0.0296 ppm	0.0059 ppm	0.0921 ppm	0.0019 ppm
Concentration per Run 2	0.6867 ppm	0.1630 ppm	0.0004 ppm	0.0297 ppm	0.0060 ppm	0.0926 ppm	0.0029 ppm
Concentration per Run 3	0.6874 ppm	0.1614 ppm	0.0010 ppm	0.0282 ppm	0.0059 ppm	0.0919 ppm	-0.0019 ppm
Concentration RSD	0.5 %	0.5 %	83.5 %	3.0 %	1.2 %	0.4 %	263.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0002 ppm	2.4818 ppm	0.0033 ppm	0.0040 ppm	0.1362 ppm	-0.0009 ppm	0.0184 ppm
Concentration per Run 1	0.0019 ppm	2.5710 ppm	0.0035 ppm	0.0040 ppm	0.1406 ppm	-0.0003 ppm	0.0181 ppm
Concentration per Run 2	-0.0015 ppm	2.3894 ppm	0.0037 ppm	0.0039 ppm	0.1335 ppm	-0.0009 ppm	0.0186 ppm
Concentration per Run 3	-0.0012 ppm	2.4850 ppm	0.0029 ppm	0.0040 ppm	0.1344 ppm	-0.0014 ppm	0.0184 ppm
Concentration RSD	749.6 %	3.7 %	12.2 %	1.3 %	2.9 %	60.2 %	1.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0533 ppm	101.9757 %	101.3123 %	99.9008 %	101.2462 %	101.2328 %	100.5678 %
Concentration per Run 1	0.0534 ppm	102.0936 %	101.4338 %	100.2149 %	101.3977 %	101.4835 %	101.1757 %
Concentration per Run 2	0.0532 ppm	101.6622 %	101.6308 %	99.6626 %	100.9453 %	101.7716 %	100.0975 %
Concentration per Run 3	0.0534 ppm	102.1712 %	100.8722 %	99.8250 %	101.3958 %	100.4433 %	100.4303 %
Concentration RSD	0.3 %	0.3 %	0.4 %	0.3 %	0.3 %	0.7 %	0.5 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: CCV
 Analysis started at: 6/27/2025 1:14:57 PM
 Rack: 0
 Vial: 3
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.5347 ppm	0.4885 ppm	0.4768 ppm	0.4982 ppm	0.5021 ppm	0.5020 ppm	0.4979 ppm
Concentration per Run 1	0.5357 ppm	0.4916 ppm	0.4781 ppm	0.4961 ppm	0.5013 ppm	0.5034 ppm	0.4997 ppm
Concentration per Run 2	0.5339 ppm	0.4869 ppm	0.4765 ppm	0.5032 ppm	0.5020 ppm	0.5013 ppm	0.4945 ppm
Concentration per Run 3	0.5344 ppm	0.4871 ppm	0.4760 ppm	0.4954 ppm	0.5029 ppm	0.5013 ppm	0.4995 ppm
Recovery Percentage 1	106.932 %	97.702 %	95.369 %	99.647 %	100.412 %	100.403 %	99.583 %
Concentration RSD	0.2 %	0.5 %	0.2 %	0.9 %	0.2 %	0.2 %	0.6 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.4802 ppm	0.5006 ppm	0.5189 ppm	0.5019 ppm	0.5054 ppm	5.1869 ppm	0.5259 ppm
Concentration per Run 1	0.4797 ppm	0.5014 ppm	0.5181 ppm	0.5059 ppm	0.5075 ppm	5.1396 ppm	0.5185 ppm
Concentration per Run 2	0.4814 ppm	0.5015 ppm	0.5211 ppm	0.4994 ppm	0.5046 ppm	5.1899 ppm	0.5270 ppm
Concentration per Run 3	0.4794 ppm	0.4989 ppm	0.5175 ppm	0.5004 ppm	0.5039 ppm	5.2312 ppm	0.5324 ppm
Recovery Percentage 1	96.030 %	100.125 %	103.778 %	100.382 %	101.075 %	103.738 %	105.188 %
Concentration RSD	0.2 %	0.3 %	0.4 %	0.7 %	0.4 %	0.9 %	1.3 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.5172 ppm	0.4993 ppm	0.5067 ppm	10.3702 ppm	0.5210 ppm	0.5071 ppm	0.4973 ppm
Concentration per Run 1	0.5184 ppm	0.4996 ppm	0.5059 ppm	10.3157 ppm	0.5194 ppm	0.5081 ppm	0.5003 ppm
Concentration per Run 2	0.5161 ppm	0.4984 ppm	0.5067 ppm	10.3761 ppm	0.5260 ppm	0.5057 ppm	0.5000 ppm
Concentration per Run 3	0.5170 ppm	0.4999 ppm	0.5075 ppm	10.4189 ppm	0.5177 ppm	0.5077 ppm	0.4918 ppm
Recovery Percentage 1	103.432 %	99.861 %	101.338 %	103.702 %	104.203 %	101.428 %	99.467 %
Concentration RSD	0.2 %	0.2 %	0.2 %	0.5 %	0.9 %	0.3 %	1.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.4901 ppm	5.4029 ppm	0.5131 ppm	0.5065 ppm	0.5160 ppm	0.5123 ppm	0.4928 ppm
Concentration per Run 1	0.4929 ppm	5.3860 ppm	0.5098 ppm	0.5074 ppm	0.5153 ppm	0.5120 ppm	0.4959 ppm
Concentration per Run 2	0.4894 ppm	5.4033 ppm	0.5145 ppm	0.5071 ppm	0.5167 ppm	0.5138 ppm	0.4924 ppm
Concentration per Run 3	0.4879 ppm	5.4193 ppm	0.5152 ppm	0.5051 ppm	0.5160 ppm	0.5110 ppm	0.4902 ppm
Recovery Percentage 1	98.014 %	102.912 %	102.630 %	101.304 %	103.201 %	102.450 %	98.570 %
Concentration RSD	0.5 %	0.3 %	0.6 %	0.2 %	0.1 %	0.3 %	0.6 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5114 ppm	100.6001 %	101.1090 %	98.3537 %	99.1977 %	100.2056 %	97.6071 %
Concentration per Run 1	0.5107 ppm	101.2228 %	100.4066 %	98.5822 %	99.2057 %	99.4975 %	97.7590 %
Concentration per Run 2	0.5138 ppm	100.0997 %	102.1270 %	97.9903 %	98.7166 %	101.0299 %	97.2811 %
Concentration per Run 3	0.5097 ppm	100.4778 %	100.7933 %	98.4886 %	99.6709 %	100.0895 %	97.7811 %
Recovery Percentage 1	102.277 %						
Concentration RSD	0.4 %	0.6 %	0.9 %	0.3 %	0.5 %	0.8 %	0.3 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: CCB
 Analysis started at: 6/27/2025 1:18:10 PM
 Rack: 0
 Vial: 4
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0001 ppm	0.0007 ppm	0.0001 ppm	-0.0004 ppm	0.0000 ppm	0.0000 ppm	-0.0005 ppm
Concentration per Run 1	0.0000 ppm	-0.0039 ppm	0.0004 ppm	-0.0003 ppm	0.0000 ppm	0.0000 ppm	-0.0014 ppm
Concentration per Run 2	0.0002 ppm	0.0012 ppm	-0.0004 ppm	-0.0005 ppm	0.0000 ppm	0.0000 ppm	-0.0004 ppm
Concentration per Run 3	0.0001 ppm	0.0049 ppm	0.0004 ppm	-0.0004 ppm	-0.0001 ppm	0.0000 ppm	0.0003 ppm
Recovery Percentage 1	1.828 %	0.730 %	2.961 %	-1.381 %	-0.055 %	0.494 %	-0.487 %
Concentration RSD	94.2 %	607.0 %	347.5 %	30.2 %	1,012.4 %	27.3 %	181.9 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0001 ppm	0.0013 ppm	0.0033 ppm	0.0004 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0006 ppm	0.0001 ppm	0.0006 ppm	0.0132 ppm	0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0002 ppm	-0.0002 ppm	0.0019 ppm	0.0054 ppm	0.0007 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0001 ppm	0.0002 ppm	0.0013 ppm	-0.0087 ppm	0.0004 ppm
Recovery Percentage 1	0.085 %	0.365 %	2.773 %	0.548 %	2.535 %	0.132 %	7.681 %
Concentration RSD	537.1 %	110.1 %	92.2 %	395.7 %	49.0 %	335.3 %	74.5 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0001 ppm	0.0002 ppm	0.0026 ppm	-0.0011 ppm	0.0005 ppm	0.0002 ppm	0.0008 ppm
Concentration per Run 1	0.0002 ppm	0.0003 ppm	0.0027 ppm	-0.0033 ppm	0.0006 ppm	0.0005 ppm	0.0022 ppm
Concentration per Run 2	-0.0002 ppm	0.0002 ppm	0.0027 ppm	-0.0023 ppm	0.0007 ppm	0.0000 ppm	0.0020 ppm
Concentration per Run 3	0.0002 ppm	0.0001 ppm	0.0025 ppm	0.0024 ppm	0.0002 ppm	0.0002 ppm	-0.0017 ppm
Recovery Percentage 1	0.087 %	1.812 %	5.277 %	-0.054 %	2.081 %	2.063 %	1.691 %
Concentration RSD	295.4 %	37.6 %	6.1 %	287.1 %	56.8 %	135.1 %	263.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0003 ppm	0.0063 ppm	-0.0001 ppm	0.0000 ppm	0.0003 ppm	-0.0003 ppm	0.0000 ppm
Concentration per Run 1	-0.0005 ppm	0.0110 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm	-0.0008 ppm	0.0000 ppm
Concentration per Run 2	0.0000 ppm	0.0039 ppm	-0.0003 ppm	0.0000 ppm	0.0003 ppm	-0.0002 ppm	0.0000 ppm
Concentration per Run 3	0.0014 ppm	0.0041 ppm	-0.0001 ppm	0.0000 ppm	0.0004 ppm	0.0000 ppm	-0.0001 ppm
Recovery Percentage 1	2.640 %	1.266 %	-0.276 %	0.118 %	2.754 %	-1.625 %	-0.164 %
Concentration RSD	376.2 %	63.5 %	127.3 %	148.1 %	53.3 %	121.6 %	207.5 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0005 ppm	100.3805 %	100.8068 %	98.7169 %	101.1419 %	101.0982 %	99.4959 %
Concentration per Run 1	-0.0005 ppm	101.0730 %	101.5676 %	98.9341 %	101.6243 %	101.6985 %	99.6528 %
Concentration per Run 2	-0.0005 ppm	100.1083 %	100.5308 %	98.7296 %	101.2852 %	100.9509 %	99.5102 %
Concentration per Run 3	-0.0004 ppm	99.9601 %	100.3219 %	98.4871 %	100.5162 %	100.6453 %	99.3248 %
Recovery Percentage 1	-9.999 %						
Concentration RSD	14.6 %	0.6 %	0.7 %	0.2 %	0.6 %	0.5 %	0.2 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2539998-03d2 WG2084191
 Analysis started at: 6/27/2025 1:24:10 PM
 Rack: 1
 Vial: 33
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0002 ppm	36.4072 ppm	0.0134 ppm	0.0050 ppm	0.1110 ppm	0.0008 ppm	22.5950 ppm
Concentration per Run 1	-0.0003 ppm	36.4134 ppm	0.0144 ppm	0.0048 ppm	0.1103 ppm	0.0008 ppm	22.6208 ppm
Concentration per Run 2	0.0000 ppm	36.4922 ppm	0.0135 ppm	0.0046 ppm	0.1109 ppm	0.0008 ppm	22.7555 ppm
Concentration per Run 3	-0.0003 ppm	36.3162 ppm	0.0123 ppm	0.0056 ppm	0.1119 ppm	0.0009 ppm	22.4086 ppm
Concentration RSD	104.4 %	0.2 %	8.0 %	10.2 %	0.7 %	2.8 %	0.8 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0009 ppm	0.0063 ppm	0.0569 ppm	0.0614 ppm	49.9899 ppm	1.5424 ppm	0.0210 ppm
Concentration per Run 1	0.0008 ppm	0.0063 ppm	0.0559 ppm	0.0618 ppm	49.9948 ppm	1.5454 ppm	0.0209 ppm
Concentration per Run 2	0.0010 ppm	0.0064 ppm	0.0580 ppm	0.0611 ppm	50.0047 ppm	1.5216 ppm	0.0208 ppm
Concentration per Run 3	0.0009 ppm	0.0063 ppm	0.0566 ppm	0.0613 ppm	49.9703 ppm	1.5603 ppm	0.0213 ppm
Concentration RSD	10.3 %	0.5 %	1.9 %	0.6 %	0.0 %	1.3 %	1.3 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	3.6086 ppm	0.2613 ppm	0.0044 ppm	0.1863 ppm	0.0196 ppm	0.1538 ppm	0.0009 ppm
Concentration per Run 1	3.5849 ppm	0.2617 ppm	0.0043 ppm	0.1884 ppm	0.0194 ppm	0.1544 ppm	0.0010 ppm
Concentration per Run 2	3.6281 ppm	0.2626 ppm	0.0039 ppm	0.1854 ppm	0.0198 ppm	0.1534 ppm	0.0000 ppm
Concentration per Run 3	3.6128 ppm	0.2595 ppm	0.0049 ppm	0.1851 ppm	0.0195 ppm	0.1536 ppm	0.0016 ppm
Concentration RSD	0.6 %	0.6 %	11.2 %	1.0 %	0.9 %	0.4 %	89.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0030 ppm	12.7261 ppm	0.0063 ppm	0.1848 ppm	1.1151 ppm	-0.0001 ppm	0.0760 ppm
Concentration per Run 1	0.0038 ppm	12.5373 ppm	0.0071 ppm	0.1847 ppm	1.1149 ppm	-0.0007 ppm	0.0758 ppm
Concentration per Run 2	0.0020 ppm	12.8994 ppm	0.0061 ppm	0.1838 ppm	1.1110 ppm	-0.0001 ppm	0.0760 ppm
Concentration per Run 3	0.0030 ppm	12.7417 ppm	0.0058 ppm	0.1858 ppm	1.1193 ppm	0.0007 ppm	0.0761 ppm
Concentration RSD	30.2 %	1.4 %	10.4 %	0.5 %	0.4 %	1,234.7 %	0.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5247 ppm	100.9028 %	103.1240 %	95.1710 %	101.6044 %	103.9391 %	100.6947 %
Concentration per Run 1	0.5156 ppm	101.5139 %	102.7213 %	94.9907 %	101.4077 %	103.3748 %	100.6288 %
Concentration per Run 2	0.5301 ppm	100.2955 %	103.4380 %	95.3322 %	101.4654 %	104.8921 %	100.8254 %
Concentration per Run 3	0.5282 ppm	100.8991 %	103.2127 %	95.1900 %	101.9402 %	103.5505 %	100.6300 %
Concentration RSD	1.5 %	0.6 %	0.4 %	0.2 %	0.3 %	0.8 %	0.1 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2540101-01d2 WG2084191
 Analysis started at: 6/27/2025 1:27:26 PM
 Rack: 1
 Vial: 34
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0010 ppm	61.5941 ppm	0.0705 ppm	0.0146 ppm	0.1883 ppm	0.0032 ppm	219.6515 ppm
Concentration per Run 1	-0.0011 ppm	61.6626 ppm	0.0691 ppm	0.0170 ppm	0.1881 ppm	0.0031 ppm	216.8242 ppm
Concentration per Run 2	-0.0010 ppm	61.8435 ppm	0.0727 ppm	0.0131 ppm	0.1882 ppm	0.0032 ppm	218.5629 ppm
Concentration per Run 3	-0.0010 ppm	61.2763 ppm	0.0697 ppm	0.0138 ppm	0.1887 ppm	0.0032 ppm	223.5675 ppm
Concentration RSD	8.1 %	0.5 %	2.7 %	14.2 %	0.2 %	0.9 %	1.6 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0009 ppm	0.0904 ppm	0.0849 ppm	0.2342 ppm	159.0515 ppm	5.2697 ppm	0.1623 ppm
Concentration per Run 1	0.0009 ppm	0.0906 ppm	0.0848 ppm	0.2345 ppm	157.7736 ppm	5.2864 ppm	0.1616 ppm
Concentration per Run 2	0.0010 ppm	0.0904 ppm	0.0848 ppm	0.2341 ppm	158.1622 ppm	5.2447 ppm	0.1624 ppm
Concentration per Run 3	0.0009 ppm	0.0903 ppm	0.0850 ppm	0.2340 ppm	161.2188 ppm	5.2781 ppm	0.1628 ppm
Concentration RSD	6.1 %	0.2 %	0.1 %	0.1 %	1.2 %	0.4 %	0.4 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	64.1878 ppm	4.8606 ppm	0.0046 ppm	1.4805 ppm	0.1669 ppm	0.2640 ppm	-0.0009 ppm
Concentration per Run 1	64.3720 ppm	4.8267 ppm	0.0048 ppm	1.4805 ppm	0.1665 ppm	0.2648 ppm	0.0014 ppm
Concentration per Run 2	63.8930 ppm	4.8488 ppm	0.0048 ppm	1.4882 ppm	0.1673 ppm	0.2649 ppm	-0.0037 ppm
Concentration per Run 3	64.2985 ppm	4.9062 ppm	0.0044 ppm	1.4727 ppm	0.1670 ppm	0.2623 ppm	-0.0005 ppm
Concentration RSD	0.4 %	0.8 %	5.0 %	0.5 %	0.2 %	0.6 %	270.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0002 ppm	29.9968 [SIC 200]	0.0046 ppm	0.5521 ppm	0.4847 ppm	-0.0028 ppm	0.0725 ppm
Concentration per Run 1	0.0014 ppm	30.1302 ppm	0.0044 ppm	0.5537 ppm	0.4778 ppm	-0.0026 ppm	0.0725 ppm
Concentration per Run 2	-0.0011 ppm	29.9115 ppm	0.0044 ppm	0.5540 ppm	0.4873 ppm	-0.0025 ppm	0.0725 ppm
Concentration per Run 3	-0.0010 ppm	29.9488 ppm	0.0051 ppm	0.5486 ppm	0.4890 ppm	-0.0034 ppm	0.0725 ppm
Concentration RSD	568.1 %	0.4 %	8.3 %	0.5 %	1.2 %	17.6 %	0.0 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4873 ppm	96.7069 %	99.9354 %	84.4706 %	112.4230 %	117.7946 %	110.4218 %
Concentration per Run 1	0.4879 ppm	96.4533 %	101.4131 %	84.1860 %	111.9858 %	118.2369 %	110.0118 %
Concentration per Run 2	0.4838 ppm	97.1441 %	101.3553 %	84.8788 %	113.0569 %	120.4646 %	110.7702 %
Concentration per Run 3	0.4901 ppm	96.5234 %	97.0377 %	84.3470 %	112.2263 %	114.6824 %	110.4833 %
Concentration RSD	0.7 %	0.4 %	2.5 %	0.4 %	0.5 %	2.5 %	0.3 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2540101-02d2 WG2084191
 Analysis started at: 6/27/2025 1:30:40 PM
 Rack: 1
 Vial: 35
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0018 ppm	101.8152 ppm	0.0681 ppm	0.0181 ppm	0.1706 ppm	0.0047 ppm	17.5995 ppm
Concentration per Run 1	0.0020 ppm	101.5175 ppm	0.0694 ppm	0.0188 ppm	0.1700 ppm	0.0047 ppm	17.5902 ppm
Concentration per Run 2	0.0016 ppm	101.5877 ppm	0.0673 ppm	0.0178 ppm	0.1707 ppm	0.0047 ppm	17.5427 ppm
Concentration per Run 3	0.0018 ppm	102.3404 ppm	0.0676 ppm	0.0176 ppm	0.1712 ppm	0.0047 ppm	17.6657 ppm
Concentration RSD	12.0 %	0.4 %	1.7 %	3.7 %	0.3 %	0.3 %	0.4 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0034 ppm	0.1139 ppm	0.1421 ppm	0.3474 ppm	233.1289 ppm	7.4954 ppm	0.2580 ppm
Concentration per Run 1	0.0035 ppm	0.1141 ppm	0.1423 ppm	0.3474 ppm	232.6172 ppm	7.4021 ppm	0.2561 ppm
Concentration per Run 2	0.0035 ppm	0.1142 ppm	0.1427 ppm	0.3469 ppm	233.1493 ppm	7.5563 ppm	0.2607 ppm
Concentration per Run 3	0.0034 ppm	0.1133 ppm	0.1413 ppm	0.3479 ppm	233.6203 ppm	7.5278 ppm	0.2571 ppm
Concentration RSD	1.2 %	0.4 %	0.5 %	0.1 %	0.2 %	1.1 %	0.9 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	56.0241 ppm	1.6456 ppm	0.0052 ppm	1.9245 ppm	0.2362 ppm	0.1482 ppm	-0.0067 ppm
Concentration per Run 1	56.3199 ppm	1.6409 ppm	0.0047 ppm	1.9026 ppm	0.2364 ppm	0.1480 ppm	-0.0072 ppm
Concentration per Run 2	56.1765 ppm	1.6483 ppm	0.0055 ppm	1.9361 ppm	0.2382 ppm	0.1473 ppm	-0.0053 ppm
Concentration per Run 3	55.5759 ppm	1.6477 ppm	0.0055 ppm	1.9348 ppm	0.2341 ppm	0.1492 ppm	-0.0076 ppm
Concentration RSD	0.7 %	0.3 %	8.3 %	1.0 %	0.9 %	0.6 %	18.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0048 ppm	39.4706 [SIC 200]	0.0059 ppm	0.1063 ppm	0.9150 ppm	0.0003 ppm	0.1130 ppm
Concentration per Run 1	0.0044 ppm	40.0807 ppm	0.0060 ppm	0.1061 ppm	0.9191 ppm	0.0001 ppm	0.1136 ppm
Concentration per Run 2	0.0033 ppm	39.7896 ppm	0.0062 ppm	0.1062 ppm	0.9445 ppm	0.0008 ppm	0.1130 ppm
Concentration per Run 3	0.0065 ppm	38.5415 ppm	0.0055 ppm	0.1066 ppm	0.8815 ppm	0.0001 ppm	0.1124 ppm
Concentration RSD	34.8 %	2.1 %	6.1 %	0.2 %	3.5 %	106.5 %	0.5 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7094 ppm	102.3928 %	102.3929 %	89.9669 %	115.2466 %	125.4453 %	121.8629 %
Concentration per Run 1	0.7102 ppm	102.4042 %	102.4272 %	90.3090 %	115.3846 %	125.4267 %	122.0340 %
Concentration per Run 2	0.7166 ppm	102.1468 %	102.1628 %	90.1101 %	115.3033 %	124.5888 %	122.1071 %
Concentration per Run 3	0.7014 ppm	102.6275 %	102.5887 %	89.4815 %	115.0521 %	126.3206 %	121.4474 %
Concentration RSD	1.1 %	0.2 %	0.2 %	0.5 %	0.2 %	0.7 %	0.3 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2540101-03d2 WG2084191
 Analysis started at: 6/27/2025 1:33:53 PM
 Rack: 1
 Vial: 36
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0014 ppm	103.2372 ppm	0.0571 ppm	0.0112 ppm	0.6403 ppm	0.0059 ppm	59.7959 ppm
Concentration per Run 1	-0.0014 ppm	102.3295 ppm	0.0572 ppm	0.0103 ppm	0.6364 ppm	0.0059 ppm	59.4394 ppm
Concentration per Run 2	-0.0014 ppm	103.9624 ppm	0.0578 ppm	0.0129 ppm	0.6474 ppm	0.0060 ppm	60.0725 ppm
Concentration per Run 3	-0.0013 ppm	103.4199 ppm	0.0563 ppm	0.0105 ppm	0.6372 ppm	0.0060 ppm	59.8757 ppm
Concentration RSD	3.8 %	0.8 %	1.3 %	12.6 %	1.0 %	0.4 %	0.5 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0031 ppm	0.1351 ppm	0.1456 ppm	0.2604 ppm	204.9151 ppm	6.1542 ppm	0.2375 ppm
Concentration per Run 1	0.0031 ppm	0.1348 ppm	0.1458 ppm	0.2594 ppm	204.5652 ppm	6.0482 ppm	0.2333 ppm
Concentration per Run 2	0.0030 ppm	0.1348 ppm	0.1460 ppm	0.2607 ppm	206.3669 ppm	6.2756 ppm	0.2434 ppm
Concentration per Run 3	0.0031 ppm	0.1357 ppm	0.1449 ppm	0.2612 ppm	203.8130 ppm	6.1388 ppm	0.2359 ppm
Concentration RSD	1.7 %	0.4 %	0.4 %	0.4 %	0.6 %	1.9 %	2.2 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	43.8107 ppm	5.3353 ppm	0.0042 ppm	2.9244 ppm	0.2596 ppm	0.3756 ppm	-0.0007 ppm
Concentration per Run 1	43.9148 ppm	5.3159 ppm	0.0045 ppm	2.8855 ppm	0.2596 ppm	0.3757 ppm	0.0002 ppm
Concentration per Run 2	43.9568 ppm	5.3489 ppm	0.0043 ppm	2.9748 ppm	0.2608 ppm	0.3745 ppm	-0.0002 ppm
Concentration per Run 3	43.5606 ppm	5.3412 ppm	0.0037 ppm	2.9127 ppm	0.2585 ppm	0.3766 ppm	-0.0021 ppm
Concentration RSD	0.5 %	0.3 %	9.7 %	1.6 %	0.4 %	0.3 %	169.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0023 ppm	27.9857 [SIC 200]	0.0066 ppm	0.2297 ppm	0.7439 ppm	-0.0018 ppm	0.1149 ppm
Concentration per Run 1	-0.0002 ppm	28.0405 ppm	0.0070 ppm	0.2279 ppm	0.7469 ppm	-0.0013 ppm	0.1152 ppm
Concentration per Run 2	0.0029 ppm	28.3906 ppm	0.0061 ppm	0.2312 ppm	0.7773 ppm	-0.0025 ppm	0.1145 ppm
Concentration per Run 3	0.0044 ppm	27.5260 ppm	0.0066 ppm	0.2301 ppm	0.7076 ppm	-0.0017 ppm	0.1149 ppm
Concentration RSD	101.1 %	1.6 %	6.9 %	0.7 %	4.7 %	33.4 %	0.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.9645 ppm	101.9643 %	105.9120 %	90.3878 %	130.4304 %	137.7565 %	129.5781 %
Concentration per Run 1	0.9659 ppm	102.5226 %	105.9600 %	90.7729 %	130.6120 %	136.7980 %	130.5052 %
Concentration per Run 2	0.9716 ppm	101.2085 %	105.7895 %	90.2174 %	129.8253 %	138.4857 %	128.7114 %
Concentration per Run 3	0.9560 ppm	102.1617 %	105.9866 %	90.1732 %	130.8538 %	137.9858 %	129.5176 %
Concentration RSD	0.8 %	0.7 %	0.1 %	0.4 %	0.4 %	0.6 %	0.7 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2540101-04d2 WG2084191
 Analysis started at: 6/27/2025 1:37:07 PM
 Rack: 1
 Vial: 37
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0011 ppm	91.3242 ppm	0.0603 ppm	0.0139 ppm	0.4933 ppm	0.0051 ppm	63.0612 ppm
Concentration per Run 1	-0.0008 ppm	91.1127 ppm	0.0590 ppm	0.0150 ppm	0.4913 ppm	0.0051 ppm	62.9529 ppm
Concentration per Run 2	-0.0016 ppm	91.6148 ppm	0.0609 ppm	0.0139 ppm	0.4961 ppm	0.0051 ppm	62.3549 ppm
Concentration per Run 3	-0.0007 ppm	91.2450 ppm	0.0609 ppm	0.0128 ppm	0.4925 ppm	0.0051 ppm	63.8757 ppm
Concentration RSD	46.3 %	0.3 %	1.8 %	7.8 %	0.5 %	0.2 %	1.2 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0026 ppm	0.0935 ppm	0.1305 ppm	0.1896 ppm	170.5284 ppm	5.5565 ppm	0.2085 ppm
Concentration per Run 1	0.0026 ppm	0.0939 ppm	0.1311 ppm	0.1905 ppm	170.1218 ppm	5.5369 ppm	0.2082 ppm
Concentration per Run 2	0.0027 ppm	0.0933 ppm	0.1298 ppm	0.1891 ppm	169.1034 ppm	5.6113 ppm	0.2109 ppm
Concentration per Run 3	0.0025 ppm	0.0933 ppm	0.1308 ppm	0.1892 ppm	172.3599 ppm	5.5213 ppm	0.2063 ppm
Concentration RSD	4.5 %	0.4 %	0.5 %	0.4 %	1.0 %	0.9 %	1.1 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	39.8843 ppm	2.9527 ppm	0.0036 ppm	3.1817 ppm	0.2008 ppm	0.2757 ppm	-0.0014 ppm
Concentration per Run 1	39.9733 ppm	2.9456 ppm	0.0040 ppm	3.1884 ppm	0.2010 ppm	0.2762 ppm	-0.0014 ppm
Concentration per Run 2	39.8678 ppm	2.9300 ppm	0.0034 ppm	3.2147 ppm	0.1990 ppm	0.2757 ppm	-0.0009 ppm
Concentration per Run 3	39.8119 ppm	2.9825 ppm	0.0035 ppm	3.1418 ppm	0.2024 ppm	0.2751 ppm	-0.0021 ppm
Concentration RSD	0.2 %	0.9 %	9.3 %	1.2 %	0.8 %	0.2 %	41.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0009 ppm	25.9890 [SIC 200]	0.0069 ppm	0.2322 ppm	0.7303 ppm	-0.0019 ppm	0.1085 ppm
Concentration per Run 1	0.0019 ppm	26.8978 ppm	0.0071 ppm	0.2320 ppm	0.7578 ppm	-0.0026 ppm	0.1089 ppm
Concentration per Run 2	0.0018 ppm	25.8042 ppm	0.0071 ppm	0.2332 ppm	0.7276 ppm	-0.0018 ppm	0.1086 ppm
Concentration per Run 3	-0.0011 ppm	25.2650 ppm	0.0064 ppm	0.2313 ppm	0.7055 ppm	-0.0015 ppm	0.1079 ppm
Concentration RSD	190.1 %	3.2 %	6.0 %	0.4 %	3.6 %	29.2 %	0.5 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.8508 ppm	100.3332 %	104.2611 %	89.3417 %	124.6483 %	130.4724 %	123.2302 %
Concentration per Run 1	0.8540 ppm	99.4458 %	104.6819 %	89.7207 %	123.1865 %	130.6849 %	123.5079 %
Concentration per Run 2	0.8460 ppm	100.5955 %	105.2555 %	88.8935 %	125.4708 %	131.3638 %	122.8332 %
Concentration per Run 3	0.8526 ppm	100.9583 %	102.8459 %	89.4109 %	125.2877 %	129.3683 %	123.3494 %
Concentration RSD	0.5 %	0.8 %	1.2 %	0.5 %	1.0 %	0.8 %	0.3 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2540101-05d2 WG2084191
 Analysis started at: 6/27/2025 1:40:18 PM
 Rack: 1
 Vial: 38
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0017 ppm	120.9424 ppm	0.1382 ppm	0.0289 ppm	0.6167 ppm	0.0060 ppm	156.4767 ppm
Concentration per Run 1	0.0015 ppm	121.6678 ppm	0.1377 ppm	0.0287 ppm	0.6169 ppm	0.0060 ppm	157.3297 ppm
Concentration per Run 2	0.0017 ppm	120.6162 ppm	0.1377 ppm	0.0296 ppm	0.6171 ppm	0.0060 ppm	156.0587 ppm
Concentration per Run 3	0.0018 ppm	120.5433 ppm	0.1391 ppm	0.0285 ppm	0.6160 ppm	0.0060 ppm	156.0418 ppm
Concentration RSD	10.5 %	0.5 %	0.6 %	2.0 %	0.1 %	0.4 %	0.5 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0037 ppm	0.1172 ppm	0.1648 ppm	0.2463 ppm	247.0921 ppm	11.1502 ppm	0.2778 ppm
Concentration per Run 1	0.0036 ppm	0.1174 ppm	0.1657 ppm	0.2468 ppm	247.8086 ppm	11.2853 ppm	0.2807 ppm
Concentration per Run 2	0.0038 ppm	0.1174 ppm	0.1639 ppm	0.2473 ppm	246.4469 ppm	11.0529 ppm	0.2728 ppm
Concentration per Run 3	0.0036 ppm	0.1167 ppm	0.1649 ppm	0.2447 ppm	247.0207 ppm	11.1123 ppm	0.2798 ppm
Concentration RSD	3.3 %	0.4 %	0.6 %	0.6 %	0.3 %	1.1 %	1.6 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	58.6201 ppm	7.4050 ppm	0.0028 ppm	2.5576 ppm	0.2583 ppm	0.1997 ppm	-0.0064 ppm
Concentration per Run 1	58.5413 ppm	7.4339 ppm	0.0030 ppm	2.5843 ppm	0.2589 ppm	0.2004 ppm	-0.0083 ppm
Concentration per Run 2	58.6980 ppm	7.3788 ppm	0.0026 ppm	2.5207 ppm	0.2581 ppm	0.1984 ppm	-0.0048 ppm
Concentration per Run 3	58.6209 ppm	7.4021 ppm	0.0029 ppm	2.5677 ppm	0.2579 ppm	0.2002 ppm	-0.0061 ppm
Concentration RSD	0.1 %	0.4 %	8.4 %	1.3 %	0.2 %	0.5 %	27.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0017 ppm	49.4809 [SIC 200]	0.0070 ppm	0.6761 ppm	1.1900 ppm	-0.0041 ppm	0.1409 ppm
Concentration per Run 1	0.0011 ppm	50.2124 ppm	0.0075 ppm	0.6764 ppm	1.2010 ppm	-0.0047 ppm	0.1408 ppm
Concentration per Run 2	-0.0024 ppm	49.6659 ppm	0.0066 ppm	0.6781 ppm	1.1998 ppm	-0.0032 ppm	0.1414 ppm
Concentration per Run 3	-0.0040 ppm	48.5645 ppm	0.0069 ppm	0.6737 ppm	1.1692 ppm	-0.0043 ppm	0.1407 ppm
Concentration RSD	149.1 %	1.7 %	6.2 %	0.3 %	1.5 %	20.0 %	0.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7199 ppm	100.4465 %	101.9262 %	84.0425 %	120.0613 %	131.8681 %	123.1530 %
Concentration per Run 1	0.7187 ppm	100.4643 %	101.0392 %	84.5689 %	119.9677 %	131.7928 %	124.1441 %
Concentration per Run 2	0.7220 ppm	100.6564 %	103.0651 %	84.3624 %	119.4766 %	132.5782 %	122.7402 %
Concentration per Run 3	0.7191 ppm	100.2186 %	101.6742 %	83.1963 %	120.7396 %	131.2332 %	122.5747 %
Concentration RSD	0.3 %	0.2 %	1.0 %	0.9 %	0.5 %	0.5 %	0.7 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2539998-02d2 WG2084191
 Analysis started at: 6/27/2025 1:43:30 PM
 Rack: 1
 Vial: 32
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0000 ppm	28.6829 ppm	0.0104 ppm	0.0049 ppm	0.0777 ppm	0.0007 ppm	9.9323 ppm
Concentration per Run 1	-0.0001 ppm	28.5886 ppm	0.0098 ppm	0.0051 ppm	0.0773 ppm	0.0007 ppm	9.9655 ppm
Concentration per Run 2	0.0001 ppm	28.7372 ppm	0.0112 ppm	0.0049 ppm	0.0777 ppm	0.0007 ppm	9.9280 ppm
Concentration per Run 3	0.0000 ppm	28.7229 ppm	0.0102 ppm	0.0047 ppm	0.0780 ppm	0.0007 ppm	9.9034 ppm
Concentration RSD	599.7 %	0.3 %	7.1 %	4.7 %	0.5 %	3.2 %	0.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0006 ppm	0.0032 ppm	0.0470 ppm	0.0360 ppm	40.8120 ppm	1.3596 ppm	0.0140 ppm
Concentration per Run 1	0.0006 ppm	0.0032 ppm	0.0477 ppm	0.0365 ppm	40.6773 ppm	1.3377 ppm	0.0144 ppm
Concentration per Run 2	0.0007 ppm	0.0033 ppm	0.0468 ppm	0.0359 ppm	40.7402 ppm	1.3825 ppm	0.0141 ppm
Concentration per Run 3	0.0006 ppm	0.0031 ppm	0.0464 ppm	0.0356 ppm	41.0186 ppm	1.3587 ppm	0.0136 ppm
Concentration RSD	4.7 %	2.7 %	1.4 %	1.4 %	0.4 %	1.6 %	2.8 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	1.6848 ppm	0.1497 ppm	0.0036 ppm	0.2395 ppm	0.0143 ppm	0.3106 ppm	0.0018 ppm
Concentration per Run 1	1.7020 ppm	0.1499 ppm	0.0037 ppm	0.2358 ppm	0.0145 ppm	0.3099 ppm	0.0044 ppm
Concentration per Run 2	1.6800 ppm	0.1495 ppm	0.0035 ppm	0.2416 ppm	0.0142 ppm	0.3089 ppm	0.0014 ppm
Concentration per Run 3	1.6724 ppm	0.1496 ppm	0.0035 ppm	0.2409 ppm	0.0143 ppm	0.3131 ppm	-0.0006 ppm
Concentration RSD	0.9 %	0.2 %	4.5 %	1.3 %	1.3 %	0.7 %	143.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0018 ppm	13.2502 ppm	0.0058 ppm	0.0779 ppm	0.9148 ppm	-0.0006 ppm	0.0640 ppm
Concentration per Run 1	0.0010 ppm	13.3493 ppm	0.0066 ppm	0.0776 ppm	0.9259 ppm	-0.0011 ppm	0.0645 ppm
Concentration per Run 2	0.0031 ppm	13.3032 ppm	0.0061 ppm	0.0779 ppm	0.9225 ppm	0.0003 ppm	0.0641 ppm
Concentration per Run 3	0.0012 ppm	13.0982 ppm	0.0048 ppm	0.0783 ppm	0.8960 ppm	-0.0009 ppm	0.0636 ppm
Concentration RSD	65.2 %	1.0 %	16.3 %	0.4 %	1.8 %	131.0 %	0.7 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1383 ppm	100.8903 %	102.3479 %	95.8944 %	101.0655 %	102.8555 %	99.8860 %
Concentration per Run 1	0.1400 ppm	99.6874 %	102.6333 %	95.9601 %	99.4383 %	103.4323 %	99.9036 %
Concentration per Run 2	0.1374 ppm	101.8223 %	102.2837 %	95.7490 %	102.0757 %	102.9770 %	99.5472 %
Concentration per Run 3	0.1376 ppm	101.1612 %	102.1268 %	95.9740 %	101.6823 %	102.1570 %	100.2072 %
Concentration RSD	1.0 %	1.1 %	0.3 %	0.1 %	1.4 %	0.6 %	0.3 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2539739-04d2 WG2084191
 Analysis started at: 6/27/2025 1:48:44 PM
 Rack: 1
 Vial: 40
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0003 ppm	24.6359 ppm	0.0191 ppm	0.0028 ppm	0.1272 ppm	0.0014 ppm	1.0926 ppm
Concentration per Run 1	-0.0004 ppm	24.7038 ppm	0.0195 ppm	0.0036 ppm	0.1272 ppm	0.0014 ppm	1.0939 ppm
Concentration per Run 2	-0.0003 ppm	24.5231 ppm	0.0186 ppm	0.0020 ppm	0.1266 ppm	0.0014 ppm	1.0900 ppm
Concentration per Run 3	-0.0001 ppm	24.6807 ppm	0.0191 ppm	0.0028 ppm	0.1279 ppm	0.0014 ppm	1.0938 ppm
Concentration RSD	72.1 %	0.4 %	2.4 %	29.6 %	0.5 %	1.3 %	0.2 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0004 ppm	0.0064 ppm	0.0438 ppm	0.0231 ppm	39.3677 ppm	1.3720 ppm	0.0167 ppm
Concentration per Run 1	0.0004 ppm	0.0064 ppm	0.0433 ppm	0.0231 ppm	39.2361 ppm	1.3734 ppm	0.0165 ppm
Concentration per Run 2	0.0004 ppm	0.0066 ppm	0.0443 ppm	0.0230 ppm	39.4537 ppm	1.3745 ppm	0.0165 ppm
Concentration per Run 3	0.0005 ppm	0.0061 ppm	0.0438 ppm	0.0231 ppm	39.4134 ppm	1.3682 ppm	0.0171 ppm
Concentration RSD	6.4 %	3.8 %	1.2 %	0.2 %	0.3 %	0.2 %	2.0 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	2.7584 ppm	0.2936 ppm	0.0017 ppm	0.0667 ppm	0.0181 ppm	0.0395 ppm	0.0014 ppm
Concentration per Run 1	2.7484 ppm	0.2934 ppm	0.0016 ppm	0.0628 ppm	0.0177 ppm	0.0401 ppm	-0.0003 ppm
Concentration per Run 2	2.7729 ppm	0.2934 ppm	0.0019 ppm	0.0657 ppm	0.0185 ppm	0.0390 ppm	0.0038 ppm
Concentration per Run 3	2.7540 ppm	0.2941 ppm	0.0017 ppm	0.0715 ppm	0.0181 ppm	0.0394 ppm	0.0006 ppm
Concentration RSD	0.5 %	0.1 %	9.9 %	6.7 %	2.0 %	1.4 %	158.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0012 ppm	10.1763 ppm	0.0039 ppm	0.0090 ppm	0.4775 ppm	-0.0006 ppm	0.0617 ppm
Concentration per Run 1	0.0002 ppm	10.1478 ppm	0.0032 ppm	0.0090 ppm	0.4771 ppm	-0.0011 ppm	0.0619 ppm
Concentration per Run 2	0.0009 ppm	10.2521 ppm	0.0050 ppm	0.0091 ppm	0.4866 ppm	0.0005 ppm	0.0616 ppm
Concentration per Run 3	0.0026 ppm	10.1290 ppm	0.0033 ppm	0.0090 ppm	0.4687 ppm	-0.0011 ppm	0.0617 ppm
Concentration RSD	97.9 %	0.7 %	26.4 %	0.5 %	1.9 %	170.3 %	0.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1108 ppm	101.0955 %	101.8247 %	96.9129 %	100.8472 %	102.5807 %	100.4940 %
Concentration per Run 1	0.1106 ppm	101.2417 %	101.7229 %	96.8208 %	100.6787 %	102.5312 %	100.1071 %
Concentration per Run 2	0.1109 ppm	101.4800 %	102.6034 %	96.7710 %	101.3636 %	103.1576 %	100.5532 %
Concentration per Run 3	0.1109 ppm	100.5647 %	101.1477 %	97.1470 %	100.4992 %	102.0533 %	100.8216 %
Concentration RSD	0.2 %	0.5 %	0.7 %	0.2 %	0.5 %	0.5 %	0.4 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: CCV
 Analysis started at: 6/27/2025 1:54:38 PM
 Rack: 0
 Vial: 3
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.5295 ppm	0.4795 ppm	0.4727 ppm	0.4966 ppm	0.4962 ppm	0.4999 ppm	0.4886 ppm
Concentration per Run 1	0.5292 ppm	0.4787 ppm	0.4749 ppm	0.4953 ppm	0.4963 ppm	0.5008 ppm	0.4902 ppm
Concentration per Run 2	0.5276 ppm	0.4812 ppm	0.4697 ppm	0.4955 ppm	0.4974 ppm	0.4993 ppm	0.4927 ppm
Concentration per Run 3	0.5317 ppm	0.4785 ppm	0.4736 ppm	0.4991 ppm	0.4949 ppm	0.4996 ppm	0.4828 ppm
Recovery Percentage 1	105.894 %	95.895 %	94.548 %	99.320 %	99.242 %	99.985 %	97.712 %
Concentration RSD	0.4 %	0.3 %	0.6 %	0.4 %	0.3 %	0.2 %	1.1 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.4777 ppm	0.4981 ppm	0.5182 ppm	0.4989 ppm	0.5006 ppm	5.0992 ppm	0.5178 ppm
Concentration per Run 1	0.4788 ppm	0.4985 ppm	0.5190 ppm	0.5005 ppm	0.5033 ppm	5.1069 ppm	0.5143 ppm
Concentration per Run 2	0.4802 ppm	0.5002 ppm	0.5167 ppm	0.4979 ppm	0.5010 ppm	5.1136 ppm	0.5246 ppm
Concentration per Run 3	0.4741 ppm	0.4955 ppm	0.5191 ppm	0.4985 ppm	0.4976 ppm	5.0770 ppm	0.5143 ppm
Recovery Percentage 1	95.540 %	99.615 %	103.647 %	99.787 %	100.129 %	101.983 %	103.551 %
Concentration RSD	0.7 %	0.5 %	0.3 %	0.3 %	0.6 %	0.4 %	1.1 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.5115 ppm	0.4981 ppm	0.4999 ppm	10.1617 ppm	0.5222 ppm	0.5049 ppm	0.4968 ppm
Concentration per Run 1	0.5134 ppm	0.4988 ppm	0.4995 ppm	10.1576 ppm	0.5189 ppm	0.5049 ppm	0.5010 ppm
Concentration per Run 2	0.5110 ppm	0.5024 ppm	0.5008 ppm	10.2443 ppm	0.5214 ppm	0.5033 ppm	0.4942 ppm
Concentration per Run 3	0.5102 ppm	0.4931 ppm	0.4996 ppm	10.0831 ppm	0.5264 ppm	0.5064 ppm	0.4951 ppm
Recovery Percentage 1	102.304 %	99.616 %	99.990 %	101.617 %	104.448 %	100.973 %	99.355 %
Concentration RSD	0.3 %	0.9 %	0.1 %	0.8 %	0.7 %	0.3 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.4822 ppm	5.3930 ppm	0.5067 ppm	0.5019 ppm	0.5124 ppm	0.5066 ppm	0.4915 ppm
Concentration per Run 1	0.4807 ppm	5.3831 ppm	0.5056 ppm	0.5012 ppm	0.5122 ppm	0.5032 ppm	0.4937 ppm
Concentration per Run 2	0.4833 ppm	5.3929 ppm	0.5068 ppm	0.5026 ppm	0.5108 ppm	0.5082 ppm	0.4922 ppm
Concentration per Run 3	0.4826 ppm	5.4030 ppm	0.5077 ppm	0.5020 ppm	0.5140 ppm	0.5082 ppm	0.4888 ppm
Recovery Percentage 1	96.441 %	102.723 %	101.345 %	100.384 %	102.475 %	101.312 %	98.308 %
Concentration RSD	0.3 %	0.2 %	0.2 %	0.1 %	0.3 %	0.6 %	0.5 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5083 ppm	101.1110 %	101.6846 %	98.7809 %	98.7641 %	100.9394 %	98.0995 %
Concentration per Run 1	0.5069 ppm	101.2622 %	101.7701 %	99.0350 %	98.2389 %	101.0152 %	98.5623 %
Concentration per Run 2	0.5098 ppm	101.4179 %	100.8502 %	98.4473 %	99.1233 %	100.3828 %	97.6193 %
Concentration per Run 3	0.5083 ppm	100.6530 %	102.4336 %	98.8603 %	98.9301 %	101.4202 %	98.1170 %
Recovery Percentage 1	101.663 %						
Concentration RSD	0.3 %	0.4 %	0.8 %	0.3 %	0.5 %	0.5 %	0.5 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: CCB
 Analysis started at: 6/27/2025 1:57:54 PM
 Rack: 0
 Vial: 4
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0000 ppm	0.0007 ppm	0.0004 ppm	-0.0004 ppm	0.0000 ppm	0.0000 ppm	-0.0005 ppm
Concentration per Run 1	0.0000 ppm	-0.0017 ppm	-0.0002 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0010 ppm
Concentration per Run 2	0.0001 ppm	0.0014 ppm	0.0012 ppm	-0.0008 ppm	0.0000 ppm	0.0000 ppm	-0.0011 ppm
Concentration per Run 3	0.0000 ppm	0.0024 ppm	0.0003 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0007 ppm
Recovery Percentage 1	0.284 %	0.708 %	8.523 %	-1.247 %	0.136 %	0.371 %	-0.480 %
Concentration RSD	301.0 %	303.2 %	156.0 %	106.7 %	171.8 %	137.0 %	205.5 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	-0.0004 ppm	0.0002 ppm	0.0000 ppm	0.0012 ppm	0.0076 ppm	0.0001 ppm
Concentration per Run 1	0.0000 ppm	-0.0004 ppm	0.0002 ppm	0.0001 ppm	0.0016 ppm	0.0070 ppm	-0.0003 ppm
Concentration per Run 2	0.0000 ppm	-0.0005 ppm	0.0005 ppm	-0.0002 ppm	0.0010 ppm	0.0064 ppm	0.0006 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	0.0001 ppm	0.0000 ppm	0.0009 ppm	0.0095 ppm	0.0001 ppm
Recovery Percentage 1	0.212 %	-1.979 %	2.399 %	-0.389 %	2.361 %	0.305 %	1.995 %
Concentration RSD	307.6 %	40.5 %	95.9 %	443.1 %	31.6 %	21.4 %	453.0 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	-0.0002 ppm	0.0000 ppm	0.0024 ppm	-0.0028 ppm	0.0005 ppm	0.0001 ppm	0.0016 ppm
Concentration per Run 1	-0.0012 ppm	0.0001 ppm	0.0024 ppm	-0.0048 ppm	0.0004 ppm	-0.0002 ppm	0.0017 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0023 ppm	-0.0046 ppm	0.0002 ppm	-0.0010 ppm	0.0006 ppm
Concentration per Run 3	0.0007 ppm	0.0001 ppm	0.0024 ppm	0.0008 ppm	0.0009 ppm	0.0015 ppm	0.0025 ppm
Recovery Percentage 1	-0.192 %	0.496 %	4.742 %	-0.142 %	1.967 %	1.226 %	3.229 %
Concentration RSD	490.3 %	76.1 %	1.8 %	112.3 %	65.7 %	1,060.5 %	58.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0009 ppm	0.0110 ppm	-0.0003 ppm	0.0000 ppm	0.0003 ppm	-0.0009 ppm	0.0001 ppm
Concentration per Run 1	0.0003 ppm	0.0128 ppm	-0.0016 ppm	0.0000 ppm	0.0005 ppm	-0.0011 ppm	0.0002 ppm
Concentration per Run 2	0.0014 ppm	0.0102 ppm	0.0002 ppm	0.0000 ppm	0.0002 ppm	-0.0003 ppm	0.0001 ppm
Concentration per Run 3	0.0009 ppm	0.0101 ppm	0.0005 ppm	0.0000 ppm	0.0002 ppm	-0.0014 ppm	0.0000 ppm
Recovery Percentage 1	8.554 %	2.210 %	-0.558 %	-0.133 %	3.271 %	-4.617 %	0.687 %
Concentration RSD	65.6 %	13.6 %	417.7 %	212.0 %	48.8 %	62.6 %	131.7 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0007 ppm	100.0086 %	100.6166 %	98.5398 %	100.4073 %	101.5070 %	99.1646 %
Concentration per Run 1	-0.0007 ppm	100.6877 %	101.1656 %	98.5594 %	101.1676 %	101.6233 %	99.0972 %
Concentration per Run 2	-0.0008 ppm	99.4539 %	100.2480 %	98.5180 %	99.8916 %	101.4523 %	99.1576 %
Concentration per Run 3	-0.0006 ppm	99.8843 %	100.4362 %	98.5419 %	100.1625 %	101.4454 %	99.2390 %
Recovery Percentage 1	-14.445 %						
Concentration RSD	14.6 %	0.6 %	0.5 %	0.0 %	0.7 %	0.1 %	0.1 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2537294-01d2 WG2084309
 Analysis started at: 6/27/2025 2:25:47 PM
 Rack: 1
 Vial: 41
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0007 ppm	84.5023 ppm	0.0941 ppm	0.0060 ppm	0.3133 ppm	0.0021 ppm	100.7857 ppm
Concentration per Run 1	0.0005 ppm	88.0741 ppm	0.0946 ppm	0.0056 ppm	0.3259 ppm	0.0021 ppm	105.1912 ppm
Concentration per Run 2	0.0006 ppm	87.6249 ppm	0.0938 ppm	0.0074 ppm	0.3258 ppm	0.0021 ppm	104.6696 ppm
Concentration per Run 3	0.0010 ppm	77.8079 ppm	0.0940 ppm	0.0051 ppm	0.2881 ppm	0.0019 ppm	92.4962 ppm
Concentration RSD	32.6 %	6.9 %	0.4 %	20.0 %	6.9 %	5.1 %	7.1 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0017 ppm	0.0824 ppm	0.1691 ppm	0.1817 ppm	142.8266 ppm	13.8692 ppm	0.1434 ppm
Concentration per Run 1	0.0016 ppm	0.0823 ppm	0.1691 ppm	0.1834 ppm	149.1435 ppm	14.3597 ppm	0.1481 ppm
Concentration per Run 2	0.0018 ppm	0.0826 ppm	0.1688 ppm	0.1806 ppm	148.4302 ppm	14.4268 ppm	0.1500 ppm
Concentration per Run 3	0.0016 ppm	0.0822 ppm	0.1695 ppm	0.1812 ppm	130.9061 ppm	12.8210 ppm	0.1322 ppm
Concentration RSD	5.6 %	0.3 %	0.2 %	0.8 %	7.2 %	6.5 %	6.8 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	42.7006 ppm	4.1647 ppm	0.0028 ppm	1.2965 ppm	0.1791 ppm	0.0757 ppm	-0.0037 ppm
Concentration per Run 1	42.5446 ppm	4.3529 ppm	0.0028 ppm	1.3469 ppm	0.1780 ppm	0.0744 ppm	-0.0059 ppm
Concentration per Run 2	42.9695 ppm	4.3456 ppm	0.0028 ppm	1.3490 ppm	0.1801 ppm	0.0761 ppm	-0.0029 ppm
Concentration per Run 3	42.5878 ppm	3.7955 ppm	0.0027 ppm	1.1936 ppm	0.1793 ppm	0.0764 ppm	-0.0024 ppm
Concentration RSD	0.5 %	7.7 %	0.8 %	6.9 %	0.6 %	1.5 %	51.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0013 ppm	15.5166 ppm	0.0095 ppm	0.3902 ppm	2.8245 ppm	-0.0032 ppm	0.1504 ppm
Concentration per Run 1	-0.0010 ppm	15.3661 ppm	0.0096 ppm	0.4046 ppm	2.8194 ppm	-0.0033 ppm	0.1516 ppm
Concentration per Run 2	-0.0042 ppm	15.6281 ppm	0.0094 ppm	0.4080 ppm	2.8175 ppm	-0.0043 ppm	0.1492 ppm
Concentration per Run 3	0.0012 ppm	15.5556 ppm	0.0095 ppm	0.3580 ppm	2.8366 ppm	-0.0021 ppm	0.1505 ppm
Concentration RSD	202.2 %	0.9 %	1.4 %	7.2 %	0.4 %	35.2 %	0.8 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3244 ppm	98.1695 %	103.4743 %	85.5862 %	106.0287 %	116.2884 %	108.0995 %
Concentration per Run 1	0.3209 ppm	98.1302 %	99.5588 %	85.3605 %	104.4808 %	115.6007 %	107.9014 %
Concentration per Run 2	0.3287 ppm	97.4412 %	99.0468 %	85.7969 %	106.7953 %	113.9658 %	108.3160 %
Concentration per Run 3	0.3234 ppm	98.9370 %	111.8174 %	85.6011 %	106.8099 %	119.2986 %	108.0811 %
Concentration RSD	1.2 %	0.8 %	7.0 %	0.3 %	1.3 %	2.3 %	0.2 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2537325-01d2 WG2084309
 Analysis started at: 6/27/2025 2:29:12 PM
 Rack: 1
 Vial: 42
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0002 ppm	77.8090 ppm	0.0658 ppm	0.0199 ppm	0.4612 ppm	0.0030 ppm	379.9509 ppm
Concentration per Run 1	0.0001 ppm	77.8255 ppm	0.0668 ppm	0.0204 ppm	0.4616 ppm	0.0030 ppm	378.9160 ppm
Concentration per Run 2	-0.0002 ppm	77.7519 ppm	0.0639 ppm	0.0198 ppm	0.4605 ppm	0.0030 ppm	381.0130 ppm
Concentration per Run 3	0.0007 ppm	77.8495 ppm	0.0666 ppm	0.0195 ppm	0.4614 ppm	0.0030 ppm	379.9236 ppm
Concentration RSD	228.4 %	0.1 %	2.4 %	2.4 %	0.1 %	0.4 %	0.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0015 ppm	0.0589 ppm	0.0952 ppm	0.2754 ppm	174.0462 ppm	5.9974 ppm	0.2039 ppm
Concentration per Run 1	0.0014 ppm	0.0590 ppm	0.0948 ppm	0.2754 ppm	173.6255 ppm	5.9938 ppm	0.2044 ppm
Concentration per Run 2	0.0015 ppm	0.0590 ppm	0.0959 ppm	0.2747 ppm	174.2259 ppm	6.0110 ppm	0.2047 ppm
Concentration per Run 3	0.0016 ppm	0.0586 ppm	0.0949 ppm	0.2762 ppm	174.2872 ppm	5.9874 ppm	0.2028 ppm
Concentration RSD	4.1 %	0.4 %	0.6 %	0.3 %	0.2 %	0.2 %	0.5 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	65.2217 ppm	3.7413 ppm	0.0021 ppm	0.6642 ppm	0.1550 ppm	0.0846 ppm	-0.0060 ppm
Concentration per Run 1	65.2698 ppm	3.7400 ppm	0.0022 ppm	0.6630 ppm	0.1549 ppm	0.0836 ppm	-0.0052 ppm
Concentration per Run 2	65.6985 ppm	3.7370 ppm	0.0016 ppm	0.6678 ppm	0.1572 ppm	0.0845 ppm	-0.0076 ppm
Concentration per Run 3	64.6968 ppm	3.7469 ppm	0.0024 ppm	0.6618 ppm	0.1530 ppm	0.0857 ppm	-0.0053 ppm
Concentration RSD	0.8 %	0.1 %	17.8 %	0.5 %	1.3 %	1.2 %	22.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0010 ppm	19.8740 ppm	0.0128 ppm	0.4352 ppm	0.5087 ppm	-0.0017 ppm	0.0867 ppm
Concentration per Run 1	-0.0003 ppm	19.9859 ppm	0.0113 ppm	0.4363 ppm	0.5251 ppm	-0.0015 ppm	0.0868 ppm
Concentration per Run 2	-0.0004 ppm	19.6643 ppm	0.0144 ppm	0.4346 ppm	0.5080 ppm	-0.0011 ppm	0.0869 ppm
Concentration per Run 3	-0.0022 ppm	19.9717 ppm	0.0127 ppm	0.4347 ppm	0.4931 ppm	-0.0026 ppm	0.0863 ppm
Concentration RSD	114.4 %	0.9 %	11.8 %	0.2 %	3.1 %	46.3 %	0.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	1.0302 ppm	93.5305 %	98.5545 %	77.8651 %	104.5914 %	117.3254 %	105.3244 %
Concentration per Run 1	1.0241 ppm	94.4822 %	99.0745 %	77.2512 %	106.0279 %	117.6052 %	104.3817 %
Concentration per Run 2	1.0428 ppm	93.2290 %	97.6355 %	77.8625 %	104.4780 %	116.4166 %	105.5700 %
Concentration per Run 3	1.0236 ppm	92.8804 %	98.9535 %	78.4816 %	103.2683 %	117.9542 %	106.0214 %
Concentration RSD	1.1 %	0.9 %	0.8 %	0.8 %	1.3 %	0.7 %	0.8 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2537325-05d2 WG2084309
 Analysis started at: 6/27/2025 2:32:24 PM
 Rack: 1
 Vial: 43
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0016 ppm	112.7707 ppm	0.0667 ppm	0.0148 ppm	0.7785 ppm	0.0044 ppm	9.6674 ppm
Concentration per Run 1	-0.0017 ppm	112.8003 ppm	0.0680 ppm	0.0156 ppm	0.7780 ppm	0.0044 ppm	9.7653 ppm
Concentration per Run 2	-0.0017 ppm	113.1176 ppm	0.0649 ppm	0.0145 ppm	0.7765 ppm	0.0043 ppm	9.6557 ppm
Concentration per Run 3	-0.0014 ppm	112.3943 ppm	0.0672 ppm	0.0143 ppm	0.7809 ppm	0.0043 ppm	9.5813 ppm
Concentration RSD	11.2 %	0.3 %	2.4 %	5.0 %	0.3 %	1.2 %	1.0 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0020 ppm	0.0812 ppm	0.1307 ppm	0.1175 ppm	181.5642 ppm	7.5357 ppm	0.2009 ppm
Concentration per Run 1	0.0022 ppm	0.0811 ppm	0.1311 ppm	0.1173 ppm	182.8448 ppm	7.4657 ppm	0.1978 ppm
Concentration per Run 2	0.0018 ppm	0.0814 ppm	0.1309 ppm	0.1180 ppm	181.3855 ppm	7.6578 ppm	0.2026 ppm
Concentration per Run 3	0.0019 ppm	0.0813 ppm	0.1301 ppm	0.1173 ppm	180.4622 ppm	7.4836 ppm	0.2024 ppm
Concentration RSD	8.8 %	0.2 %	0.4 %	0.4 %	0.7 %	1.4 %	1.4 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	29.1504 ppm	4.7672 ppm	0.0014 ppm	0.5216 ppm	0.1677 ppm	0.0980 ppm	-0.0036 ppm
Concentration per Run 1	29.1486 ppm	4.7894 ppm	0.0016 ppm	0.5344 ppm	0.1693 ppm	0.0988 ppm	-0.0039 ppm
Concentration per Run 2	29.1940 ppm	4.7695 ppm	0.0016 ppm	0.5116 ppm	0.1664 ppm	0.0971 ppm	-0.0014 ppm
Concentration per Run 3	29.1085 ppm	4.7427 ppm	0.0010 ppm	0.5187 ppm	0.1674 ppm	0.0979 ppm	-0.0057 ppm
Concentration RSD	0.1 %	0.5 %	26.0 %	2.2 %	0.9 %	0.9 %	59.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0000 ppm	37.6634 [SIC 200]	0.0059 ppm	0.0555 ppm	1.3114 ppm	-0.0025 ppm	0.1373 ppm
Concentration per Run 1	0.0018 ppm	38.2095 ppm	0.0061 ppm	0.0559 ppm	1.3239 ppm	-0.0022 ppm	0.1368 ppm
Concentration per Run 2	-0.0010 ppm	38.2029 ppm	0.0057 ppm	0.0551 ppm	1.3341 ppm	-0.0033 ppm	0.1384 ppm
Concentration per Run 3	-0.0009 ppm	36.5778 ppm	0.0061 ppm	0.0555 ppm	1.2763 ppm	-0.0019 ppm	0.1366 ppm
Concentration RSD	7,423.8 %	2.5 %	3.6 %	0.8 %	2.4 %	28.7 %	0.7 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5320 ppm	99.1457 %	102.1908 %	88.9383 %	109.2687 %	113.1436 %	108.3469 %
Concentration per Run 1	0.5333 ppm	98.6516 %	101.4104 %	89.3705 %	108.9771 %	113.0786 %	109.2740 %
Concentration per Run 2	0.5309 ppm	99.6104 %	102.7566 %	88.6286 %	109.8996 %	113.7164 %	107.7197 %
Concentration per Run 3	0.5319 ppm	99.1750 %	102.4055 %	88.8159 %	108.9295 %	112.6357 %	108.0470 %
Concentration RSD	0.2 %	0.5 %	0.7 %	0.4 %	0.5 %	0.5 %	0.8 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2537339-01d2 WG2084309
 Analysis started at: 6/27/2025 2:35:36 PM
 Rack: 1
 Vial: 44
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0054 ppm	89.1776 ppm	0.0414 ppm	0.0171 ppm	1.5007 ppm	0.0050 ppm	19.5561 ppm
Concentration per Run 1	0.0057 ppm	89.4762 ppm	0.0413 ppm	0.0173 ppm	1.4982 ppm	0.0050 ppm	19.5092 ppm
Concentration per Run 2	0.0052 ppm	88.7588 ppm	0.0420 ppm	0.0165 ppm	1.5045 ppm	0.0051 ppm	19.4262 ppm
Concentration per Run 3	0.0053 ppm	89.2979 ppm	0.0409 ppm	0.0176 ppm	1.4994 ppm	0.0050 ppm	19.7328 ppm
Concentration RSD	5.1 %	0.4 %	1.3 %	3.3 %	0.2 %	0.5 %	0.8 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0021 ppm	0.0592 ppm	0.3743 ppm	1.3773 ppm	103.2904 ppm	7.3759 ppm	0.0931 ppm
Concentration per Run 1	0.0019 ppm	0.0592 ppm	0.3732 ppm	1.3837 ppm	102.9372 ppm	7.4085 ppm	0.0932 ppm
Concentration per Run 2	0.0021 ppm	0.0591 ppm	0.3760 ppm	1.3698 ppm	103.6104 ppm	7.3598 ppm	0.0934 ppm
Concentration per Run 3	0.0022 ppm	0.0593 ppm	0.3736 ppm	1.3786 ppm	103.3236 ppm	7.3595 ppm	0.0927 ppm
Concentration RSD	6.1 %	0.2 %	0.4 %	0.5 %	0.3 %	0.4 %	0.4 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	15.9914 ppm	2.0181 ppm	0.0020 ppm	5.1692 ppm	0.1035 ppm	0.8282 ppm	-0.0017 ppm
Concentration per Run 1	15.9369 ppm	2.0184 ppm	0.0020 ppm	5.2183 ppm	0.1015 ppm	0.8270 ppm	-0.0012 ppm
Concentration per Run 2	16.0460 ppm	2.0154 ppm	0.0023 ppm	5.0993 ppm	0.1040 ppm	0.8290 ppm	-0.0043 ppm
Concentration per Run 3	15.9914 ppm	2.0205 ppm	0.0017 ppm	5.1900 ppm	0.1050 ppm	0.8284 ppm	0.0005 ppm
Concentration RSD	0.3 %	0.1 %	13.7 %	1.2 %	1.7 %	0.1 %	145.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0073 ppm	9.5889 ppm	0.0936 ppm	0.1240 ppm	1.1162 ppm	-0.0002 ppm	0.1330 ppm
Concentration per Run 1	0.0088 ppm	9.6189 ppm	0.0929 ppm	0.1237 ppm	1.0934 ppm	-0.0003 ppm	0.1328 ppm
Concentration per Run 2	0.0081 ppm	9.7225 ppm	0.0941 ppm	0.1246 ppm	1.1300 ppm	0.0001 ppm	0.1332 ppm
Concentration per Run 3	0.0050 ppm	9.4255 ppm	0.0938 ppm	0.1236 ppm	1.1252 ppm	-0.0005 ppm	0.1330 ppm
Concentration RSD	28.0 %	1.6 %	0.7 %	0.5 %	1.8 %	150.0 %	0.1 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.9889 ppm	100.6646 %	103.7004 %	92.0756 %	123.7213 %	128.3026 %	121.8003 %
Concentration per Run 1	0.9836 ppm	101.0049 %	104.6024 %	91.6998 %	124.2668 %	129.0895 %	121.4277 %
Concentration per Run 2	0.9948 ppm	100.1635 %	103.2897 %	92.5472 %	123.2874 %	127.6529 %	122.5513 %
Concentration per Run 3	0.9883 ppm	100.8255 %	103.2093 %	91.9799 %	123.6098 %	128.1653 %	121.4218 %
Concentration RSD	0.6 %	0.4 %	0.8 %	0.5 %	0.4 %	0.6 %	0.5 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2537339-02d2 WG2084309
 Analysis started at: 6/27/2025 2:38:48 PM
 Rack: 1
 Vial: 45
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0004 ppm	30.8974 ppm	0.0298 ppm	0.0101 ppm	0.2686 ppm	0.0021 ppm	8.5367 ppm
Concentration per Run 1	-0.0003 ppm	30.8022 ppm	0.0284 ppm	0.0106 ppm	0.2668 ppm	0.0021 ppm	8.5518 ppm
Concentration per Run 2	-0.0005 ppm	30.9844 ppm	0.0304 ppm	0.0100 ppm	0.2703 ppm	0.0021 ppm	8.5036 ppm
Concentration per Run 3	-0.0004 ppm	30.9055 ppm	0.0307 ppm	0.0098 ppm	0.2687 ppm	0.0021 ppm	8.5548 ppm
Concentration RSD	23.2 %	0.3 %	4.2 %	4.3 %	0.6 %	0.4 %	0.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0007 ppm	0.0283 ppm	0.0781 ppm	0.0739 ppm	72.2446 ppm	3.8882 ppm	0.0571 ppm
Concentration per Run 1	0.0007 ppm	0.0286 ppm	0.0784 ppm	0.0741 ppm	72.0804 ppm	3.8562 ppm	0.0572 ppm
Concentration per Run 2	0.0006 ppm	0.0282 ppm	0.0778 ppm	0.0738 ppm	72.5098 ppm	3.9309 ppm	0.0571 ppm
Concentration per Run 3	0.0007 ppm	0.0281 ppm	0.0782 ppm	0.0736 ppm	72.1436 ppm	3.8775 ppm	0.0572 ppm
Concentration RSD	9.7 %	0.9 %	0.4 %	0.4 %	0.3 %	1.0 %	0.1 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	11.4276 ppm	0.4349 ppm	0.0005 ppm	1.4172 ppm	0.0684 ppm	0.0414 ppm	0.0016 ppm
Concentration per Run 1	11.4626 ppm	0.4353 ppm	0.0005 ppm	1.4064 ppm	0.0679 ppm	0.0413 ppm	0.0012 ppm
Concentration per Run 2	11.4165 ppm	0.4352 ppm	0.0004 ppm	1.4305 ppm	0.0683 ppm	0.0416 ppm	0.0020 ppm
Concentration per Run 3	11.4037 ppm	0.4341 ppm	0.0006 ppm	1.4147 ppm	0.0689 ppm	0.0414 ppm	0.0015 ppm
Concentration RSD	0.3 %	0.1 %	15.1 %	0.9 %	0.7 %	0.3 %	25.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0021 ppm	2.6471 ppm	0.0120 ppm	0.0404 ppm	1.0364 ppm	-0.0008 ppm	0.0757 ppm
Concentration per Run 1	0.0014 ppm	2.7132 ppm	0.0122 ppm	0.0404 ppm	1.0363 ppm	-0.0004 ppm	0.0758 ppm
Concentration per Run 2	0.0037 ppm	2.6234 ppm	0.0123 ppm	0.0404 ppm	1.0400 ppm	-0.0014 ppm	0.0756 ppm
Concentration per Run 3	0.0012 ppm	2.6048 ppm	0.0115 ppm	0.0402 ppm	1.0330 ppm	-0.0005 ppm	0.0757 ppm
Concentration RSD	66.7 %	2.2 %	3.7 %	0.2 %	0.3 %	69.5 %	0.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.2270 ppm	100.4919 %	103.2616 %	94.7454 %	107.2069 %	109.9055 %	105.7237 %
Concentration per Run 1	0.2292 ppm	99.8506 %	103.3923 %	94.8658 %	106.7022 %	109.9856 %	105.7297 %
Concentration per Run 2	0.2255 ppm	101.2033 %	103.4369 %	94.7950 %	107.7414 %	109.9490 %	105.9325 %
Concentration per Run 3	0.2264 ppm	100.4218 %	102.9556 %	94.5755 %	107.1772 %	109.7819 %	105.5088 %
Concentration RSD	0.8 %	0.7 %	0.3 %	0.2 %	0.5 %	0.1 %	0.2 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2537339-03d2 WG2084309
 Analysis started at: 6/27/2025 2:42:02 PM
 Rack: 1
 Vial: 46
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0001 ppm	21.9427 ppm	0.0082 ppm	0.0098 ppm	0.2632 ppm	0.0021 ppm	13.0228 ppm
Concentration per Run 1	-0.0003 ppm	21.9567 ppm	0.0071 ppm	0.0101 ppm	0.2635 ppm	0.0022 ppm	12.9999 ppm
Concentration per Run 2	0.0000 ppm	21.9074 ppm	0.0079 ppm	0.0098 ppm	0.2639 ppm	0.0021 ppm	13.2365 ppm
Concentration per Run 3	0.0001 ppm	21.9639 ppm	0.0095 ppm	0.0093 ppm	0.2621 ppm	0.0022 ppm	12.8322 ppm
Concentration RSD	432.3 %	0.1 %	15.4 %	4.4 %	0.3 %	2.5 %	1.6 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0007 ppm	0.0202 ppm	0.0960 ppm	0.0447 ppm	61.0872 ppm	2.8437 ppm	0.0347 ppm
Concentration per Run 1	0.0005 ppm	0.0197 ppm	0.0985 ppm	0.0433 ppm	61.0726 ppm	2.8712 ppm	0.0357 ppm
Concentration per Run 2	0.0009 ppm	0.0198 ppm	0.0949 ppm	0.0452 ppm	61.4251 ppm	2.8390 ppm	0.0344 ppm
Concentration per Run 3	0.0008 ppm	0.0210 ppm	0.0948 ppm	0.0454 ppm	60.7641 ppm	2.8211 ppm	0.0340 ppm
Concentration RSD	28.1 %	3.6 %	2.2 %	2.6 %	0.5 %	0.9 %	2.5 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	8.1985 ppm	0.7459 ppm	0.0064 ppm	1.0389 ppm	0.0461 ppm	0.0345 ppm	-0.0016 ppm
Concentration per Run 1	8.3508 ppm	0.7464 ppm	0.0065 ppm	1.0406 ppm	0.0479 ppm	0.0343 ppm	-0.0006 ppm
Concentration per Run 2	8.0921 ppm	0.7514 ppm	0.0064 ppm	1.0395 ppm	0.0451 ppm	0.0341 ppm	-0.0023 ppm
Concentration per Run 3	8.1527 ppm	0.7400 ppm	0.0063 ppm	1.0366 ppm	0.0452 ppm	0.0351 ppm	-0.0020 ppm
Concentration RSD	1.6 %	0.8 %	1.6 %	0.2 %	3.4 %	1.6 %	57.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0003 ppm	6.1469 ppm	0.0057 ppm	0.0610 ppm	0.7582 ppm	-0.0015 ppm	0.0727 ppm
Concentration per Run 1	-0.0011 ppm	6.1387 ppm	0.0061 ppm	0.0613 ppm	0.7909 ppm	-0.0012 ppm	0.0729 ppm
Concentration per Run 2	0.0021 ppm	6.0479 ppm	0.0059 ppm	0.0607 ppm	0.7400 ppm	-0.0010 ppm	0.0723 ppm
Concentration per Run 3	-0.0002 ppm	6.2539 ppm	0.0051 ppm	0.0610 ppm	0.7436 ppm	-0.0024 ppm	0.0730 ppm
Concentration RSD	613.6 %	1.7 %	9.3 %	0.5 %	3.7 %	48.6 %	0.5 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1107 ppm	101.8071 %	101.8279 %	95.2470 %	109.4246 %	113.1214 %	110.2547 %
Concentration per Run 1	0.1132 ppm	102.1057 %	101.4461 %	95.9022 %	113.1220 %	113.5357 %	110.6722 %
Concentration per Run 2	0.1079 ppm	101.8160 %	100.1224 %	95.2356 %	108.1185 %	111.1976 %	110.3101 %
Concentration per Run 3	0.1110 ppm	101.4995 %	103.9152 %	94.6032 %	107.0332 %	114.6309 %	109.7818 %
Concentration RSD	2.4 %	0.3 %	1.9 %	0.7 %	3.0 %	1.6 %	0.4 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2538360-01d2 WG2084309
 Analysis started at: 6/27/2025 2:45:15 PM
 Rack: 1
 Vial: 47
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0007 ppm	62.8850 ppm	0.0233 ppm	0.0090 ppm	0.3026 ppm	0.0029 ppm	5.6285 ppm
Concentration per Run 1	0.0005 ppm	63.3958 ppm	0.0240 ppm	0.0100 ppm	0.3068 ppm	0.0030 ppm	5.6220 ppm
Concentration per Run 2	0.0006 ppm	62.8615 ppm	0.0227 ppm	0.0083 ppm	0.2990 ppm	0.0029 ppm	5.6339 ppm
Concentration per Run 3	0.0009 ppm	62.3976 ppm	0.0231 ppm	0.0088 ppm	0.3018 ppm	0.0029 ppm	5.6296 ppm
Concentration RSD	26.5 %	0.8 %	2.8 %	9.8 %	1.3 %	2.0 %	0.1 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0019 ppm	0.0573 ppm	0.1228 ppm	0.1103 ppm	122.2896 ppm	10.2637 ppm	0.0515 ppm
Concentration per Run 1	0.0017 ppm	0.0572 ppm	0.1224 ppm	0.1082 ppm	122.8718 ppm	10.5584 ppm	0.0532 ppm
Concentration per Run 2	0.0020 ppm	0.0573 ppm	0.1242 ppm	0.1109 ppm	121.8077 ppm	10.1842 ppm	0.0506 ppm
Concentration per Run 3	0.0019 ppm	0.0573 ppm	0.1217 ppm	0.1118 ppm	122.1893 ppm	10.0484 ppm	0.0508 ppm
Concentration RSD	8.0 %	0.1 %	1.0 %	1.7 %	0.4 %	2.6 %	2.8 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	15.8241 ppm	3.4459 ppm	0.0054 ppm	0.6845 ppm	0.0951 ppm	0.0500 ppm	-0.0025 ppm
Concentration per Run 1	15.8924 ppm	3.4241 ppm	0.0053 ppm	0.6840 ppm	0.0950 ppm	0.0488 ppm	-0.0019 ppm
Concentration per Run 2	15.8661 ppm	3.4567 ppm	0.0059 ppm	0.6838 ppm	0.0957 ppm	0.0508 ppm	-0.0022 ppm
Concentration per Run 3	15.7139 ppm	3.4570 ppm	0.0048 ppm	0.6856 ppm	0.0945 ppm	0.0505 ppm	-0.0035 ppm
Concentration RSD	0.6 %	0.5 %	9.8 %	0.1 %	0.6 %	2.2 %	34.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0023 ppm	23.1530 [SIC 200]	0.0087 ppm	0.0573 ppm	3.4087 ppm	-0.0015 ppm	0.1515 ppm
Concentration per Run 1	-0.0032 ppm	23.0728 ppm	0.0085 ppm	0.0581 ppm	3.4224 ppm	-0.0011 ppm	0.1494 ppm
Concentration per Run 2	-0.0047 ppm	23.3703 ppm	0.0081 ppm	0.0568 ppm	3.4329 ppm	-0.0019 ppm	0.1528 ppm
Concentration per Run 3	0.0012 ppm	23.0159 ppm	0.0095 ppm	0.0572 ppm	3.3710 ppm	-0.0015 ppm	0.1524 ppm
Concentration RSD	135.7 %	0.8 %	8.1 %	1.2 %	1.0 %	26.5 %	1.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1999 ppm	103.6326 %	103.2250 %	94.6641 %	117.4432 %	124.1196 %	121.5513 %
Concentration per Run 1	0.2006 ppm	103.7661 %	103.4183 %	94.7584 %	120.2202 %	124.7820 %	121.6109 %
Concentration per Run 2	0.2009 ppm	103.4191 %	103.3729 %	94.7272 %	115.6557 %	124.1491 %	121.4153 %
Concentration per Run 3	0.1984 ppm	103.7126 %	102.8839 %	94.5066 %	116.4536 %	123.4276 %	121.6276 %
Concentration RSD	0.7 %	0.2 %	0.3 %	0.1 %	2.1 %	0.5 %	0.1 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2538360-02d2 WG2084309
 Analysis started at: 6/27/2025 2:48:28 PM
 Rack: 1
 Vial: 48
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0008 ppm	69.3475 ppm	0.0331 ppm	0.0098 ppm	0.4964 ppm	0.0033 ppm	12.0133 ppm
Concentration per Run 1	0.0007 ppm	68.8706 ppm	0.0335 ppm	0.0104 ppm	0.5019 ppm	0.0034 ppm	11.9590 ppm
Concentration per Run 2	0.0007 ppm	70.1960 ppm	0.0334 ppm	0.0093 ppm	0.4940 ppm	0.0033 ppm	12.0676 ppm
Concentration per Run 3	0.0009 ppm	68.9760 ppm	0.0324 ppm	0.0095 ppm	0.4932 ppm	0.0032 ppm	12.0134 ppm
Concentration RSD	16.9 %	1.1 %	1.8 %	6.0 %	1.0 %	1.9 %	0.5 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0021 ppm	0.0481 ppm	0.1267 ppm	0.1159 ppm	127.3011 ppm	5.9768 ppm	0.0707 ppm
Concentration per Run 1	0.0021 ppm	0.0489 ppm	0.1262 ppm	0.1162 ppm	127.7055 ppm	6.0171 ppm	0.0715 ppm
Concentration per Run 2	0.0022 ppm	0.0478 ppm	0.1270 ppm	0.1156 ppm	127.0116 ppm	6.0087 ppm	0.0703 ppm
Concentration per Run 3	0.0021 ppm	0.0477 ppm	0.1269 ppm	0.1159 ppm	127.1863 ppm	5.9046 ppm	0.0702 ppm
Concentration RSD	1.7 %	1.4 %	0.4 %	0.2 %	0.3 %	1.0 %	1.0 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	16.7898 ppm	2.7094 ppm	0.0055 ppm	0.6244 ppm	0.0995 ppm	0.3796 ppm	-0.0020 ppm
Concentration per Run 1	16.7940 ppm	2.6907 ppm	0.0056 ppm	0.6084 ppm	0.0995 ppm	0.3806 ppm	-0.0014 ppm
Concentration per Run 2	16.8102 ppm	2.7350 ppm	0.0057 ppm	0.6421 ppm	0.1001 ppm	0.3782 ppm	-0.0015 ppm
Concentration per Run 3	16.7652 ppm	2.7026 ppm	0.0051 ppm	0.6226 ppm	0.0988 ppm	0.3800 ppm	-0.0031 ppm
Concentration RSD	0.1 %	0.8 %	5.4 %	2.7 %	0.6 %	0.3 %	47.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0012 ppm	18.3952 ppm	0.0159 ppm	0.0872 ppm	2.0860 ppm	-0.0007 ppm	0.1492 ppm
Concentration per Run 1	-0.0002 ppm	18.4941 ppm	0.0172 ppm	0.0881 ppm	2.0732 ppm	-0.0006 ppm	0.1495 ppm
Concentration per Run 2	-0.0005 ppm	18.3373 ppm	0.0145 ppm	0.0871 ppm	2.1279 ppm	-0.0009 ppm	0.1491 ppm
Concentration per Run 3	-0.0027 ppm	18.3542 ppm	0.0159 ppm	0.0864 ppm	2.0569 ppm	-0.0006 ppm	0.1491 ppm
Concentration RSD	117.0 %	0.5 %	8.5 %	1.0 %	1.8 %	19.8 %	0.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.3362 ppm	102.9247 %	102.3356 %	92.2911 %	114.7425 %	121.5278 %	117.6979 %
Concentration per Run 1	0.3351 ppm	102.6278 %	102.0332 %	92.0752 %	114.1390 %	119.9750 %	117.3505 %
Concentration per Run 2	0.3361 ppm	103.0716 %	102.9940 %	92.5289 %	115.6568 %	123.6923 %	117.7721 %
Concentration per Run 3	0.3372 ppm	103.0748 %	101.9795 %	92.2693 %	114.4316 %	120.9163 %	117.9710 %
Concentration RSD	0.3 %	0.2 %	0.6 %	0.2 %	0.7 %	1.6 %	0.3 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2538367-02d2 WG2084309
 Analysis started at: 6/27/2025 2:51:42 PM
 Rack: 1
 Vial: 49
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0003 ppm	63.5138 ppm	0.0218 ppm	-0.0007 ppm	0.1926 ppm	0.0052 ppm	16.3501 ppm
Concentration per Run 1	0.0000 ppm	63.4386 ppm	0.0212 ppm	-0.0018 ppm	0.1908 ppm	0.0051 ppm	16.4124 ppm
Concentration per Run 2	0.0004 ppm	63.5718 ppm	0.0221 ppm	0.0006 ppm	0.1928 ppm	0.0052 ppm	16.2827 ppm
Concentration per Run 3	0.0004 ppm	63.5310 ppm	0.0221 ppm	-0.0008 ppm	0.1942 ppm	0.0052 ppm	16.3551 ppm
Concentration RSD	86.6 %	0.1 %	2.4 %	181.3 %	0.9 %	0.5 %	0.4 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0029 ppm	0.1018 ppm	0.0871 ppm	0.3007 ppm	156.5143 ppm	15.2647 ppm	0.1683 ppm
Concentration per Run 1	0.0028 ppm	0.1021 ppm	0.0870 ppm	0.2997 ppm	157.2074 ppm	15.1749 ppm	0.1693 ppm
Concentration per Run 2	0.0030 ppm	0.1022 ppm	0.0875 ppm	0.3018 ppm	156.0585 ppm	15.2523 ppm	0.1668 ppm
Concentration per Run 3	0.0030 ppm	0.1011 ppm	0.0868 ppm	0.3007 ppm	156.2771 ppm	15.3669 ppm	0.1689 ppm
Concentration RSD	3.0 %	0.6 %	0.4 %	0.4 %	0.4 %	0.6 %	0.8 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	31.4104 ppm	2.2966 ppm	0.0104 ppm	0.5077 ppm	0.1973 ppm	0.1404 ppm	-0.0022 ppm
Concentration per Run 1	31.4462 ppm	2.3129 ppm	0.0107 ppm	0.5131 ppm	0.1957 ppm	0.1422 ppm	-0.0035 ppm
Concentration per Run 2	31.3798 ppm	2.2841 ppm	0.0104 ppm	0.5050 ppm	0.1984 ppm	0.1399 ppm	-0.0023 ppm
Concentration per Run 3	31.4051 ppm	2.2929 ppm	0.0101 ppm	0.5050 ppm	0.1977 ppm	0.1390 ppm	-0.0007 ppm
Concentration RSD	0.1 %	0.6 %	2.9 %	0.9 %	0.7 %	1.2 %	64.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0004 ppm	6.4206 ppm	0.0059 ppm	0.0569 ppm	1.8530 ppm	0.0003 ppm	0.0888 ppm
Concentration per Run 1	-0.0022 ppm	6.3936 ppm	0.0054 ppm	0.0563 ppm	1.8522 ppm	0.0017 ppm	0.0885 ppm
Concentration per Run 2	0.0019 ppm	6.4256 ppm	0.0068 ppm	0.0570 ppm	1.8612 ppm	-0.0008 ppm	0.0887 ppm
Concentration per Run 3	-0.0008 ppm	6.4427 ppm	0.0056 ppm	0.0573 ppm	1.8456 ppm	0.0001 ppm	0.0890 ppm
Concentration RSD	576.0 %	0.4 %	12.8 %	0.9 %	0.4 %	384.7 %	0.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4207 ppm	99.2246 %	98.7144 %	89.3162 %	116.2976 %	123.4068 %	119.2198 %
Concentration per Run 1	0.4202 ppm	98.8669 %	98.0281 %	89.4571 %	117.0399 %	122.5349 %	119.3562 %
Concentration per Run 2	0.4226 ppm	98.9462 %	99.7728 %	89.5198 %	115.4996 %	124.7440 %	119.5841 %
Concentration per Run 3	0.4194 ppm	99.8606 %	98.3425 %	88.9716 %	116.3532 %	122.9414 %	118.7191 %
Concentration RSD	0.4 %	0.6 %	0.9 %	0.3 %	0.7 %	1.0 %	0.4 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2538367-03d2 WG2084309
 Analysis started at: 6/27/2025 2:54:54 PM
 Rack: 1
 Vial: 50
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0003 ppm	66.7562 ppm	0.0205 ppm	-0.0006 ppm	0.2028 ppm	0.0062 ppm	17.3045 ppm
Concentration per Run 1	-0.0005 ppm	66.9856 ppm	0.0210 ppm	-0.0005 ppm	0.2031 ppm	0.0062 ppm	17.3264 ppm
Concentration per Run 2	0.0000 ppm	66.4699 ppm	0.0210 ppm	-0.0009 ppm	0.2033 ppm	0.0062 ppm	17.3400 ppm
Concentration per Run 3	-0.0003 ppm	66.8131 ppm	0.0194 ppm	-0.0004 ppm	0.2020 ppm	0.0062 ppm	17.2470 ppm
Concentration RSD	83.4 %	0.4 %	4.7 %	41.0 %	0.3 %	0.5 %	0.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0029 ppm	0.0815 ppm	0.1087 ppm	0.2065 ppm	160.2085 ppm	15.7725 ppm	0.1781 ppm
Concentration per Run 1	0.0027 ppm	0.0820 ppm	0.1095 ppm	0.2053 ppm	160.2710 ppm	15.7750 ppm	0.1772 ppm
Concentration per Run 2	0.0032 ppm	0.0818 ppm	0.1085 ppm	0.2088 ppm	160.2776 ppm	15.6799 ppm	0.1780 ppm
Concentration per Run 3	0.0027 ppm	0.0808 ppm	0.1082 ppm	0.2054 ppm	160.0769 ppm	15.8626 ppm	0.1790 ppm
Concentration RSD	8.9 %	0.8 %	0.6 %	1.0 %	0.1 %	0.6 %	0.5 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	33.3837 ppm	2.2333 ppm	0.0129 ppm	0.5803 ppm	0.1464 ppm	0.0919 ppm	-0.0042 ppm
Concentration per Run 1	33.7289 ppm	2.2413 ppm	0.0128 ppm	0.5853 ppm	0.1463 ppm	0.0915 ppm	-0.0054 ppm
Concentration per Run 2	33.0954 ppm	2.2318 ppm	0.0131 ppm	0.5697 ppm	0.1475 ppm	0.0920 ppm	-0.0021 ppm
Concentration per Run 3	33.3267 ppm	2.2269 ppm	0.0127 ppm	0.5859 ppm	0.1453 ppm	0.0922 ppm	-0.0050 ppm
Concentration RSD	1.0 %	0.3 %	1.4 %	1.6 %	0.8 %	0.4 %	43.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0024 ppm	6.6553 ppm	0.0060 ppm	0.0646 ppm	1.9978 ppm	-0.0008 ppm	0.0920 ppm
Concentration per Run 1	0.0019 ppm	6.5998 ppm	0.0057 ppm	0.0654 ppm	2.0075 ppm	-0.0011 ppm	0.0926 ppm
Concentration per Run 2	-0.0064 ppm	6.7009 ppm	0.0060 ppm	0.0642 ppm	1.9834 ppm	-0.0010 ppm	0.0917 ppm
Concentration per Run 3	-0.0026 ppm	6.6653 ppm	0.0063 ppm	0.0643 ppm	2.0026 ppm	-0.0003 ppm	0.0917 ppm
Concentration RSD	174.8 %	0.8 %	5.3 %	1.0 %	0.6 %	55.8 %	0.5 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5340 ppm	98.8637 %	98.9606 %	88.6718 %	116.8531 %	124.7934 %	120.1625 %
Concentration per Run 1	0.5392 ppm	98.7657 %	99.4305 %	88.1442 %	117.6403 %	125.7978 %	120.4644 %
Concentration per Run 2	0.5343 ppm	99.0331 %	98.7489 %	89.0963 %	115.4153 %	124.2707 %	120.1465 %
Concentration per Run 3	0.5286 ppm	98.7922 %	98.7025 %	88.7748 %	117.5037 %	124.3116 %	119.8768 %
Concentration RSD	1.0 %	0.1 %	0.4 %	0.5 %	1.1 %	0.7 %	0.2 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: CCV
Analysis started at: 6/27/2025 3:00:08 PM
Rack: 0
Vial: 3
Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.5323 ppm	0.4850 ppm	0.4738 ppm	0.4953 ppm	0.4969 ppm	0.4991 ppm	0.4856 ppm
Concentration per Run 1	0.5356 ppm	0.4852 ppm	0.4734 ppm	0.4951 ppm	0.4961 ppm	0.4988 ppm	0.4824 ppm
Concentration per Run 2	0.5323 ppm	0.4874 ppm	0.4759 ppm	0.4946 ppm	0.4976 ppm	0.4996 ppm	0.4873 ppm
Concentration per Run 3	0.5290 ppm	0.4825 ppm	0.4720 ppm	0.4962 ppm	0.4970 ppm	0.4989 ppm	0.4871 ppm
Recovery Percentage 1	106.463 %	97.007 %	94.752 %	99.063 %	99.380 %	99.817 %	97.117 %
Concentration RSD	0.6 %	0.5 %	0.4 %	0.2 %	0.1 %	0.1 %	0.6 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.4736 ppm	0.4958 ppm	0.5178 ppm	0.4985 ppm	0.5023 ppm	5.1429 ppm	0.5238 ppm
Concentration per Run 1	0.4773 ppm	0.4998 ppm	0.5204 ppm	0.5014 ppm	0.5003 ppm	5.1670 ppm	0.5239 ppm
Concentration per Run 2	0.4738 ppm	0.4959 ppm	0.5182 ppm	0.4978 ppm	0.5047 ppm	5.1606 ppm	0.5294 ppm
Concentration per Run 3	0.4698 ppm	0.4918 ppm	0.5148 ppm	0.4962 ppm	0.5019 ppm	5.1010 ppm	0.5183 ppm
Recovery Percentage 1	94.729 %	99.162 %	103.560 %	99.696 %	100.466 %	102.857 %	104.767 %
Concentration RSD	0.8 %	0.8 %	0.5 %	0.5 %	0.4 %	0.7 %	1.1 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.5139 ppm	0.4945 ppm	0.5014 ppm	10.3097 ppm	0.5200 ppm	0.5053 ppm	0.4896 ppm
Concentration per Run 1	0.5175 ppm	0.4908 ppm	0.5030 ppm	10.3206 ppm	0.5217 ppm	0.5029 ppm	0.4923 ppm
Concentration per Run 2	0.5135 ppm	0.4949 ppm	0.5002 ppm	10.4254 ppm	0.5206 ppm	0.5065 ppm	0.4891 ppm
Concentration per Run 3	0.5108 ppm	0.4978 ppm	0.5011 ppm	10.1831 ppm	0.5179 ppm	0.5065 ppm	0.4873 ppm
Recovery Percentage 1	102.784 %	98.904 %	100.285 %	103.097 %	104.008 %	101.065 %	97.913 %
Concentration RSD	0.7 %	0.7 %	0.3 %	1.2 %	0.4 %	0.4 %	0.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.4833 ppm	5.3963 ppm	0.5087 ppm	0.5035 ppm	0.5142 ppm	0.5088 ppm	0.4879 ppm
Concentration per Run 1	0.4809 ppm	5.4333 ppm	0.5099 ppm	0.5029 ppm	0.5139 ppm	0.5070 ppm	0.4923 ppm
Concentration per Run 2	0.4878 ppm	5.3783 ppm	0.5119 ppm	0.5041 ppm	0.5161 ppm	0.5114 ppm	0.4854 ppm
Concentration per Run 3	0.4813 ppm	5.3773 ppm	0.5043 ppm	0.5035 ppm	0.5126 ppm	0.5080 ppm	0.4862 ppm
Recovery Percentage 1	96.669 %	102.787 %	101.744 %	100.693 %	102.843 %	101.761 %	97.588 %
Concentration RSD	0.8 %	0.6 %	0.8 %	0.1 %	0.3 %	0.4 %	0.8 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5074 ppm	100.7841 %	102.0281 %	98.8430 %	99.6038 %	100.6400 %	98.1657 %
Concentration per Run 1	0.5091 ppm	100.8885 %	101.9081 %	98.5382 %	99.3125 %	100.1228 %	97.7781 %
Concentration per Run 2	0.5073 ppm	100.4914 %	102.3017 %	99.1645 %	99.8910 %	101.4376 %	98.6158 %
Concentration per Run 3	0.5056 ppm	100.9724 %	101.8745 %	98.8262 %	99.6079 %	100.3596 %	98.1032 %
Recovery Percentage 1	101.471 %						
Concentration RSD	0.3 %	0.3 %	0.2 %	0.3 %	0.3 %	0.7 %	0.4 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: CCB
 Analysis started at: 6/27/2025 3:03:21 PM
 Rack: 0
 Vial: 4
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0000 ppm	0.0017 ppm	-0.0004 ppm	-0.0006 ppm	0.0000 ppm	0.0000 ppm	-0.0011 ppm
Concentration per Run 1	0.0000 ppm	0.0028 ppm	0.0004 ppm	-0.0010 ppm	0.0000 ppm	0.0000 ppm	-0.0016 ppm
Concentration per Run 2	-0.0003 ppm	0.0016 ppm	-0.0003 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0008 ppm
Concentration per Run 3	0.0004 ppm	0.0007 ppm	-0.0013 ppm	-0.0008 ppm	0.0000 ppm	0.0000 ppm	-0.0010 ppm
Recovery Percentage 1	0.301 %	1.703 %	-8.387 %	-1.951 %	0.137 %	0.571 %	-1.138 %
Concentration RSD	1,644.8 %	59.9 %	200.5 %	104.0 %	165.7 %	49.9 %	34.1 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0020 ppm	0.0050 ppm	-0.0003 ppm
Concentration per Run 1	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0021 ppm	0.0082 ppm	-0.0005 ppm
Concentration per Run 2	0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0002 ppm	0.0012 ppm	-0.0058 ppm	-0.0005 ppm
Concentration per Run 3	0.0001 ppm	-0.0004 ppm	0.0002 ppm	0.0000 ppm	0.0027 ppm	0.0126 ppm	0.0003 ppm
Recovery Percentage 1	1.874 %	-0.673 %	1.400 %	0.744 %	4.017 %	0.200 %	-5.090 %
Concentration RSD	22.6 %	146.8 %	78.7 %	115.6 %	37.3 %	191.7 %	191.8 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0002 ppm	0.0001 ppm	0.0025 ppm	-0.0024 ppm	0.0003 ppm	0.0005 ppm	0.0008 ppm
Concentration per Run 1	0.0001 ppm	0.0002 ppm	0.0028 ppm	-0.0028 ppm	0.0003 ppm	0.0001 ppm	-0.0011 ppm
Concentration per Run 2	0.0004 ppm	0.0000 ppm	0.0023 ppm	-0.0013 ppm	0.0005 ppm	0.0006 ppm	0.0019 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0024 ppm	-0.0030 ppm	0.0000 ppm	0.0008 ppm	0.0017 ppm
Recovery Percentage 1	0.155 %	1.259 %	4.993 %	-0.118 %	1.169 %	4.914 %	1.685 %
Concentration RSD	138.9 %	77.3 %	12.1 %	38.4 %	84.2 %	67.6 %	197.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0005 ppm	0.0056 ppm	-0.0003 ppm	0.0000 ppm	0.0004 ppm	-0.0004 ppm	-0.0001 ppm
Concentration per Run 1	-0.0007 ppm	0.0050 ppm	-0.0003 ppm	0.0000 ppm	0.0005 ppm	0.0004 ppm	-0.0001 ppm
Concentration per Run 2	0.0021 ppm	0.0050 ppm	-0.0005 ppm	0.0000 ppm	0.0004 ppm	-0.0007 ppm	-0.0002 ppm
Concentration per Run 3	0.0001 ppm	0.0069 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm	-0.0009 ppm	0.0000 ppm
Recovery Percentage 1	5.012 %	1.129 %	-0.541 %	0.054 %	4.386 %	-2.008 %	-0.658 %
Concentration RSD	286.3 %	18.9 %	96.2 %	537.4 %	8.5 %	170.6 %	170.1 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0007 ppm	100.8506 %	100.3882 %	99.0391 %	101.4497 %	100.6864 %	99.3928 %
Concentration per Run 1	-0.0007 ppm	101.1281 %	100.8941 %	99.0438 %	101.3708 %	100.7677 %	99.5700 %
Concentration per Run 2	-0.0006 ppm	99.7829 %	100.4668 %	99.2667 %	100.4084 %	100.7054 %	99.5296 %
Concentration per Run 3	-0.0008 ppm	101.6409 %	99.8037 %	98.8067 %	102.5699 %	100.5860 %	99.0788 %
Recovery Percentage 1	-14.459 %						
Concentration RSD	12.2 %	1.0 %	0.5 %	0.2 %	1.1 %	0.1 %	0.3 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2539318-01d2 WG2084309
 Analysis started at: 6/27/2025 3:12:20 PM
 Rack: 1
 Vial: 51
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0023 ppm	172.0071 ppm	0.0327 ppm	0.0129 ppm	1.2411 ppm	0.0065 ppm	12.9166 ppm
Concentration per Run 1	-0.0022 ppm	171.3908 ppm	0.0329 ppm	0.0114 ppm	1.2382 ppm	0.0065 ppm	12.9879 ppm
Concentration per Run 2	-0.0022 ppm	172.2521 ppm	0.0335 ppm	0.0136 ppm	1.2438 ppm	0.0064 ppm	12.7643 ppm
Concentration per Run 3	-0.0026 ppm	172.3785 ppm	0.0316 ppm	0.0138 ppm	1.2415 ppm	0.0066 ppm	12.9974 ppm
Concentration RSD	10.1 %	0.3 %	3.1 %	10.4 %	0.2 %	1.2 %	1.0 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0033 ppm	0.1500 ppm	0.2583 ppm	0.1311 ppm	229.6468 ppm	23.1423 ppm	0.1979 ppm
Concentration per Run 1	0.0033 ppm	0.1500 ppm	0.2588 ppm	0.1306 ppm	229.8684 ppm	22.9919 ppm	0.1970 ppm
Concentration per Run 2	0.0032 ppm	0.1502 ppm	0.2578 ppm	0.1316 ppm	228.3331 ppm	23.5366 ppm	0.2013 ppm
Concentration per Run 3	0.0032 ppm	0.1499 ppm	0.2584 ppm	0.1312 ppm	230.7390 ppm	22.8984 ppm	0.1956 ppm
Concentration RSD	1.4 %	0.1 %	0.2 %	0.4 %	0.5 %	1.5 %	1.5 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	54.6451 ppm	9.0269 ppm	0.0043 ppm	0.8268 ppm	0.1597 ppm	0.2035 ppm	-0.0068 ppm
Concentration per Run 1	54.8419 ppm	9.0309 ppm	0.0042 ppm	0.8240 ppm	0.1594 ppm	0.2038 ppm	-0.0054 ppm
Concentration per Run 2	54.5023 ppm	8.9775 ppm	0.0043 ppm	0.8452 ppm	0.1601 ppm	0.2046 ppm	-0.0074 ppm
Concentration per Run 3	54.5910 ppm	9.0724 ppm	0.0045 ppm	0.8112 ppm	0.1595 ppm	0.2021 ppm	-0.0077 ppm
Concentration RSD	0.3 %	0.5 %	3.0 %	2.1 %	0.2 %	0.6 %	18.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0012 ppm	14.2221 ppm	0.0132 ppm	0.1513 ppm	6.1293 ppm	-0.0046 ppm	0.4396 ppm
Concentration per Run 1	0.0020 ppm	13.9645 ppm	0.0118 ppm	0.1509 ppm	6.1506 ppm	-0.0044 ppm	0.4394 ppm
Concentration per Run 2	-0.0004 ppm	14.4994 ppm	0.0142 ppm	0.1511 ppm	6.1222 ppm	-0.0062 ppm	0.4399 ppm
Concentration per Run 3	0.0021 ppm	14.2024 ppm	0.0135 ppm	0.1519 ppm	6.1153 ppm	-0.0030 ppm	0.4395 ppm
Concentration RSD	118.1 %	1.9 %	9.3 %	0.4 %	0.3 %	35.1 %	0.1 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6411 ppm	104.7154 %	107.8490 %	90.6012 %	107.4240 %	111.0821 %	105.3511 %
Concentration per Run 1	0.6428 ppm	104.7320 %	107.3656 %	90.6966 %	107.6023 %	110.7898 %	105.0831 %
Concentration per Run 2	0.6405 ppm	104.8101 %	109.0369 %	90.3265 %	107.0858 %	111.6352 %	105.2751 %
Concentration per Run 3	0.6400 ppm	104.6040 %	107.1446 %	90.7804 %	107.5839 %	110.8213 %	105.6951 %
Concentration RSD	0.2 %	0.1 %	1.0 %	0.3 %	0.3 %	0.4 %	0.3 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2539318-03d2 WG2084309
 Analysis started at: 6/27/2025 3:15:38 PM
 Rack: 1
 Vial: 52
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0014 ppm	170.2988 ppm	0.0297 ppm	0.0198 ppm	1.5606 ppm	0.0079 ppm	27.3434 ppm
Concentration per Run 1	-0.0015 ppm	169.6926 ppm	0.0314 ppm	0.0205 ppm	1.5661 ppm	0.0080 ppm	27.3962 ppm
Concentration per Run 2	-0.0013 ppm	170.9569 ppm	0.0280 ppm	0.0184 ppm	1.5664 ppm	0.0079 ppm	27.3794 ppm
Concentration per Run 3	-0.0014 ppm	170.2468 ppm	0.0298 ppm	0.0205 ppm	1.5494 ppm	0.0079 ppm	27.2546 ppm
Concentration RSD	9.1 %	0.4 %	5.7 %	6.0 %	0.6 %	0.6 %	0.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0051 ppm	0.1037 ppm	0.2274 ppm	0.1052 ppm	201.2402 ppm	21.1298 ppm	0.1646 ppm
Concentration per Run 1	0.0052 ppm	0.1043 ppm	0.2280 ppm	0.1051 ppm	202.8264 ppm	21.0668 ppm	0.1643 ppm
Concentration per Run 2	0.0050 ppm	0.1034 ppm	0.2273 ppm	0.1054 ppm	201.4900 ppm	21.3864 ppm	0.1665 ppm
Concentration per Run 3	0.0049 ppm	0.1033 ppm	0.2268 ppm	0.1052 ppm	199.4043 ppm	20.9363 ppm	0.1631 ppm
Concentration RSD	2.5 %	0.5 %	0.3 %	0.1 %	0.9 %	1.1 %	1.1 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	46.9878 ppm	9.8055 ppm	0.0043 ppm	0.5956 ppm	0.1735 ppm	0.3820 ppm	-0.0044 ppm
Concentration per Run 1	47.1432 ppm	9.8856 ppm	0.0044 ppm	0.5917 ppm	0.1736 ppm	0.3831 ppm	-0.0058 ppm
Concentration per Run 2	46.8615 ppm	9.8059 ppm	0.0043 ppm	0.6096 ppm	0.1745 ppm	0.3811 ppm	-0.0043 ppm
Concentration per Run 3	46.9588 ppm	9.7250 ppm	0.0042 ppm	0.5856 ppm	0.1725 ppm	0.3817 ppm	-0.0029 ppm
Concentration RSD	0.3 %	0.8 %	3.3 %	2.1 %	0.6 %	0.3 %	33.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0008 ppm	8.9062 ppm	0.0137 ppm	0.2039 ppm	4.8860 ppm	-0.0049 ppm	0.2523 ppm
Concentration per Run 1	0.0013 ppm	9.0755 ppm	0.0140 ppm	0.2053 ppm	4.8936 ppm	-0.0054 ppm	0.2519 ppm
Concentration per Run 2	0.0017 ppm	8.9230 ppm	0.0143 ppm	0.2042 ppm	4.8963 ppm	-0.0051 ppm	0.2518 ppm
Concentration per Run 3	-0.0005 ppm	8.7199 ppm	0.0127 ppm	0.2023 ppm	4.8680 ppm	-0.0042 ppm	0.2531 ppm
Concentration RSD	139.6 %	2.0 %	6.6 %	0.8 %	0.3 %	12.2 %	0.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6896 ppm	104.4629 %	107.2831 %	90.4722 %	133.3844 %	138.4033 %	130.7011 %
Concentration per Run 1	0.6950 ppm	103.6186 %	107.0183 %	90.4032 %	133.2149 %	138.0523 %	130.6832 %
Concentration per Run 2	0.6885 ppm	104.6900 %	107.5479 %	90.7596 %	133.6450 %	138.6928 %	130.9148 %
Concentration per Run 3	0.6853 ppm	105.0802 %	107.2832 %	90.2539 %	133.2933 %	138.4647 %	130.5052 %
Concentration RSD	0.7 %	0.7 %	0.2 %	0.3 %	0.2 %	0.2 %	0.2 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2539318-05d2 WG2084309
 Analysis started at: 6/27/2025 3:18:50 PM
 Rack: 1
 Vial: 53
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0018 ppm	197.1886 ppm	0.0375 ppm	0.0123 ppm	1.5040 ppm	0.0077 ppm	12.6004 ppm
Concentration per Run 1	-0.0011 ppm	197.0162 ppm	0.0371 ppm	0.0117 ppm	1.4945 ppm	0.0077 ppm	12.5732 ppm
Concentration per Run 2	-0.0019 ppm	198.0738 ppm	0.0375 ppm	0.0126 ppm	1.5155 ppm	0.0078 ppm	12.6115 ppm
Concentration per Run 3	-0.0025 ppm	196.4759 ppm	0.0378 ppm	0.0126 ppm	1.5020 ppm	0.0077 ppm	12.6166 ppm
Concentration RSD	40.2 %	0.4 %	1.0 %	4.2 %	0.7 %	0.4 %	0.2 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0034 ppm	0.1678 ppm	0.2761 ppm	0.1537 ppm	249.2267 ppm	24.8720 ppm	0.2231 ppm
Concentration per Run 1	0.0035 ppm	0.1685 ppm	0.2754 ppm	0.1543 ppm	248.2000 ppm	24.8075 ppm	0.2224 ppm
Concentration per Run 2	0.0032 ppm	0.1681 ppm	0.2760 ppm	0.1538 ppm	249.6786 ppm	24.9189 ppm	0.2245 ppm
Concentration per Run 3	0.0034 ppm	0.1668 ppm	0.2770 ppm	0.1528 ppm	249.8015 ppm	24.8896 ppm	0.2223 ppm
Concentration RSD	3.4 %	0.5 %	0.3 %	0.5 %	0.4 %	0.2 %	0.6 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	58.2334 ppm	14.7690 ppm	0.0038 ppm	1.0411 ppm	0.1853 ppm	0.2054 ppm	-0.0069 ppm
Concentration per Run 1	58.1361 ppm	14.7254 ppm	0.0037 ppm	1.0389 ppm	0.1836 ppm	0.2081 ppm	-0.0052 ppm
Concentration per Run 2	58.2246 ppm	14.8131 ppm	0.0040 ppm	1.0524 ppm	0.1865 ppm	0.2047 ppm	-0.0073 ppm
Concentration per Run 3	58.3395 ppm	14.7685 ppm	0.0037 ppm	1.0320 ppm	0.1859 ppm	0.2035 ppm	-0.0082 ppm
Concentration RSD	0.2 %	0.3 %	4.5 %	1.0 %	0.8 %	1.2 %	22.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0030 ppm	19.5589 ppm	0.0152 ppm	0.1245 ppm	6.4580 ppm	-0.0091 ppm	0.4113 ppm
Concentration per Run 1	-0.0031 ppm	19.6864 ppm	0.0148 ppm	0.1237 ppm	6.4432 ppm	-0.0090 ppm	0.4111 ppm
Concentration per Run 2	-0.0030 ppm	19.3258 ppm	0.0149 ppm	0.1258 ppm	6.4487 ppm	-0.0096 ppm	0.4124 ppm
Concentration per Run 3	-0.0028 ppm	19.6644 ppm	0.0160 ppm	0.1239 ppm	6.4822 ppm	-0.0087 ppm	0.4104 ppm
Concentration RSD	6.7 %	1.0 %	4.5 %	0.9 %	0.3 %	5.3 %	0.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6957 ppm	104.6790 %	109.3075 %	89.8047 %	115.7147 %	121.7616 %	114.1190 %
Concentration per Run 1	0.6930 ppm	104.6927 %	110.1230 %	89.5035 %	115.5396 %	122.3176 %	114.0674 %
Concentration per Run 2	0.6958 ppm	105.1654 %	109.3657 %	90.0788 %	115.9001 %	122.4882 %	114.2480 %
Concentration per Run 3	0.6982 ppm	104.1787 %	108.4338 %	89.8318 %	115.7044 %	120.4790 %	114.0416 %
Concentration RSD	0.4 %	0.5 %	0.8 %	0.3 %	0.2 %	0.9 %	0.1 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2539318-07d2 WG2084309
 Analysis started at: 6/27/2025 3:22:02 PM
 Rack: 1
 Vial: 54
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0026 ppm	207.0569 ppm	0.0439 ppm	0.0109 ppm	1.6026 ppm	0.0085 ppm	21.1853 ppm
Concentration per Run 1	-0.0028 ppm	208.0052 ppm	0.0423 ppm	0.0114 ppm	1.6143 ppm	0.0086 ppm	21.2201 ppm
Concentration per Run 2	-0.0030 ppm	206.3426 ppm	0.0439 ppm	0.0110 ppm	1.6024 ppm	0.0084 ppm	21.2577 ppm
Concentration per Run 3	-0.0022 ppm	206.8230 ppm	0.0455 ppm	0.0105 ppm	1.5911 ppm	0.0084 ppm	21.0781 ppm
Concentration RSD	16.7 %	0.4 %	3.6 %	4.0 %	0.7 %	1.6 %	0.4 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0040 ppm	0.1604 ppm	0.3055 ppm	0.1715 ppm	284.5575 ppm	25.9128 ppm	0.2289 ppm
Concentration per Run 1	0.0038 ppm	0.1597 ppm	0.3069 ppm	0.1708 ppm	284.7934 ppm	26.1790 ppm	0.2308 ppm
Concentration per Run 2	0.0039 ppm	0.1602 ppm	0.3055 ppm	0.1715 ppm	286.2257 ppm	25.7966 ppm	0.2279 ppm
Concentration per Run 3	0.0041 ppm	0.1612 ppm	0.3040 ppm	0.1722 ppm	282.6533 ppm	25.7627 ppm	0.2281 ppm
Concentration RSD	3.8 %	0.5 %	0.5 %	0.4 %	0.6 %	0.9 %	0.7 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	59.9530 ppm	13.7205 ppm	0.0032 ppm	1.1197 ppm	0.1861 ppm	0.2147 ppm	-0.0068 ppm
Concentration per Run 1	60.2940 ppm	13.7332 ppm	0.0029 ppm	1.1352 ppm	0.1862 ppm	0.2149 ppm	-0.0086 ppm
Concentration per Run 2	59.8019 ppm	13.7372 ppm	0.0033 ppm	1.1108 ppm	0.1864 ppm	0.2155 ppm	-0.0039 ppm
Concentration per Run 3	59.7632 ppm	13.6911 ppm	0.0035 ppm	1.1130 ppm	0.1856 ppm	0.2135 ppm	-0.0079 ppm
Concentration RSD	0.5 %	0.2 %	8.6 %	1.2 %	0.2 %	0.5 %	37.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0027 ppm	14.7404 ppm	0.0144 ppm	0.1666 ppm	6.0600 ppm	-0.0063 ppm	0.5161 ppm
Concentration per Run 1	-0.0023 ppm	14.9386 ppm	0.0145 ppm	0.1675 ppm	6.0971 ppm	-0.0066 ppm	0.5162 ppm
Concentration per Run 2	-0.0031 ppm	14.6584 ppm	0.0152 ppm	0.1667 ppm	6.0610 ppm	-0.0057 ppm	0.5158 ppm
Concentration per Run 3	-0.0027 ppm	14.6243 ppm	0.0135 ppm	0.1654 ppm	6.0220 ppm	-0.0066 ppm	0.5163 ppm
Concentration RSD	15.5 %	1.2 %	5.8 %	0.6 %	0.6 %	8.0 %	0.1 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6924 ppm	105.7984 %	110.1153 %	89.3042 %	117.4620 %	122.6273 %	114.1128 %
Concentration per Run 1	0.6968 ppm	105.2694 %	110.1716 %	89.1846 %	117.0601 %	122.7930 %	114.3267 %
Concentration per Run 2	0.6910 ppm	106.6458 %	108.8795 %	88.9951 %	118.6790 %	121.3928 %	113.6551 %
Concentration per Run 3	0.6893 ppm	105.4801 %	111.2950 %	89.7329 %	116.6468 %	123.6962 %	114.3567 %
Concentration RSD	0.6 %	0.7 %	1.1 %	0.4 %	0.9 %	0.9 %	0.3 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2539318-09d2 WG2084309
 Analysis started at: 6/27/2025 3:25:14 PM
 Rack: 1
 Vial: 55
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0026 ppm	191.3041 ppm	0.0322 ppm	0.0101 ppm	1.5294 ppm	0.0073 ppm	19.0726 ppm
Concentration per Run 1	-0.0023 ppm	191.2855 ppm	0.0315 ppm	0.0101 ppm	1.5246 ppm	0.0073 ppm	19.0117 ppm
Concentration per Run 2	-0.0030 ppm	190.7693 ppm	0.0336 ppm	0.0108 ppm	1.5389 ppm	0.0074 ppm	19.1369 ppm
Concentration per Run 3	-0.0025 ppm	191.8574 ppm	0.0314 ppm	0.0094 ppm	1.5247 ppm	0.0074 ppm	19.0693 ppm
Concentration RSD	13.4 %	0.3 %	4.0 %	7.0 %	0.5 %	0.9 %	0.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0027 ppm	0.1363 ppm	0.2834 ppm	0.1457 ppm	243.5643 ppm	23.2675 ppm	0.2070 ppm
Concentration per Run 1	0.0027 ppm	0.1370 ppm	0.2818 ppm	0.1454 ppm	242.9896 ppm	23.5515 ppm	0.2080 ppm
Concentration per Run 2	0.0026 ppm	0.1363 ppm	0.2864 ppm	0.1451 ppm	244.6309 ppm	23.2572 ppm	0.2067 ppm
Concentration per Run 3	0.0028 ppm	0.1356 ppm	0.2821 ppm	0.1465 ppm	243.0724 ppm	22.9939 ppm	0.2063 ppm
Concentration RSD	2.3 %	0.5 %	0.9 %	0.5 %	0.4 %	1.2 %	0.4 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	61.6686 ppm	7.2507 ppm	0.0018 ppm	1.0938 ppm	0.1910 ppm	0.1748 ppm	-0.0075 ppm
Concentration per Run 1	61.4689 ppm	7.2360 ppm	0.0017 ppm	1.1111 ppm	0.1885 ppm	0.1767 ppm	-0.0077 ppm
Concentration per Run 2	61.9571 ppm	7.2557 ppm	0.0016 ppm	1.0870 ppm	0.1928 ppm	0.1745 ppm	-0.0068 ppm
Concentration per Run 3	61.5798 ppm	7.2603 ppm	0.0020 ppm	1.0833 ppm	0.1918 ppm	0.1731 ppm	-0.0081 ppm
Concentration RSD	0.4 %	0.2 %	12.5 %	1.4 %	1.2 %	1.0 %	8.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0004 ppm	15.4529 ppm	0.0143 ppm	0.1504 ppm	6.0265 ppm	-0.0028 ppm	0.3928 ppm
Concentration per Run 1	0.0022 ppm	15.4749 ppm	0.0154 ppm	0.1500 ppm	6.0088 ppm	-0.0023 ppm	0.3920 ppm
Concentration per Run 2	-0.0003 ppm	15.5138 ppm	0.0137 ppm	0.1515 ppm	6.0523 ppm	-0.0029 ppm	0.3932 ppm
Concentration per Run 3	-0.0008 ppm	15.3700 ppm	0.0139 ppm	0.1497 ppm	6.0185 ppm	-0.0032 ppm	0.3933 ppm
Concentration RSD	443.0 %	0.5 %	6.2 %	0.7 %	0.4 %	15.7 %	0.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6391 ppm	106.0815 %	110.5164 %	90.8631 %	119.3125 %	124.7812 %	116.3791 %
Concentration per Run 1	0.6355 ppm	106.5087 %	111.1633 %	90.9358 %	119.8633 %	125.2915 %	116.4791 %
Concentration per Run 2	0.6456 ppm	105.4258 %	110.0011 %	90.7952 %	119.0180 %	124.5863 %	116.4742 %
Concentration per Run 3	0.6362 ppm	106.3101 %	110.3847 %	90.8582 %	119.0562 %	124.4658 %	116.1840 %
Concentration RSD	0.9 %	0.5 %	0.5 %	0.1 %	0.4 %	0.4 %	0.1 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: zL2539318-11d2 WG2084309
 Analysis started at: 6/27/2025 3:28:26 PM
 Rack: 1
 Vial: 56
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0017 ppm	187.5764 ppm	0.0134 ppm	0.0106 ppm	1.4952 ppm	0.0078 ppm	20.0889 ppm
Concentration per Run 1	-0.0014 ppm	186.8202 ppm	-0.0246 ppm	0.0111 ppm	1.4872 ppm	0.0078 ppm	20.0592 ppm
Concentration per Run 2	-0.0018 ppm	188.0496 ppm	0.0315 ppm	0.0109 ppm	1.5023 ppm	0.0078 ppm	20.0948 ppm
Concentration per Run 3	-0.0018 ppm	187.8594 ppm	0.0334 ppm	0.0097 ppm	1.4962 ppm	0.0078 ppm	20.1127 ppm
Concentration RSD	13.4 %	0.4 %	245.2 %	7.4 %	0.5 %	0.4 %	0.1 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0026 ppm	0.1174 ppm	0.2573 ppm	0.1367 ppm	231.8649 ppm	19.8528 ppm	0.1861 ppm
Concentration per Run 1	0.0026 ppm	0.1177 ppm	0.2547 ppm	0.1369 ppm	231.2976 ppm	19.6946 ppm	0.1843 ppm
Concentration per Run 2	0.0026 ppm	0.1177 ppm	0.2586 ppm	0.1362 ppm	232.0078 ppm	20.0921 ppm	0.1879 ppm
Concentration per Run 3	0.0025 ppm	0.1167 ppm	0.2585 ppm	0.1370 ppm	232.2892 ppm	19.7716 ppm	0.1860 ppm
Concentration RSD	2.9 %	0.5 %	0.9 %	0.3 %	0.2 %	1.1 %	1.0 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	55.9718 ppm	6.8693 ppm	0.0010 ppm	1.0123 ppm	0.1716 ppm	0.1462 ppm	-0.0037 ppm
Concentration per Run 1	56.1879 ppm	6.8610 ppm	0.0008 ppm	1.0070 ppm	0.1702 ppm	0.1264 ppm	-0.0048 ppm
Concentration per Run 2	55.8832 ppm	6.8620 ppm	0.0014 ppm	1.0256 ppm	0.1736 ppm	0.1561 ppm	-0.0026 ppm
Concentration per Run 3	55.8442 ppm	6.8849 ppm	0.0008 ppm	1.0044 ppm	0.1711 ppm	0.1562 ppm	-0.0038 ppm
Concentration RSD	0.3 %	0.2 %	31.1 %	1.1 %	1.0 %	11.8 %	29.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0301 ppm	11.4288 ppm	0.0220 ppm	0.1247 ppm	5.4843 ppm	0.0909 ppm	0.3282 ppm
Concentration per Run 1	-0.0962 ppm	11.6078 ppm	0.0222 ppm	0.1235 ppm	5.4790 ppm	0.2773 ppm	0.3289 ppm
Concentration per Run 2	0.0025 ppm	11.7387 ppm	0.0226 ppm	0.1251 ppm	5.4825 ppm	-0.0023 ppm	0.3271 ppm
Concentration per Run 3	0.0033 ppm	10.9400 ppm	0.0210 ppm	0.1255 ppm	5.4913 ppm	-0.0024 ppm	0.3287 ppm
Concentration RSD	190.0 %	3.7 %	3.8 %	0.9 %	0.1 %	177.6 %	0.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6031 ppm	106.4303 %	110.5871 %	63.0408 %	127.8830 %	135.7179 %	125.3607 %
Concentration per Run 1	0.6005 ppm	106.4113 %	111.5474 %	6.8529 %	127.8135 %	136.6289 %	125.7476 %
Concentration per Run 2	0.6072 ppm	106.0223 %	110.2454 %	90.9464 %	127.8293 %	135.2929 %	124.9059 %
Concentration per Run 3	0.6017 ppm	106.8574 %	109.9684 %	91.3232 %	128.0063 %	135.2320 %	125.4287 %
Concentration RSD	0.6 %	0.4 %	0.8 %	77.2 %	0.1 %	0.6 %	0.3 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2539318-13d2 WG2084309
 Analysis started at: 6/27/2025 3:31:39 PM
 Rack: 1
 Vial: 57
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0002 ppm	234.0501 ppm	0.0328 ppm	0.0131 ppm	2.3613 ppm	0.0100 ppm	29.6580 ppm
Concentration per Run 1	0.0009 ppm	233.1461 ppm	0.0346 ppm	0.0139 ppm	2.3634 ppm	0.0099 ppm	29.5413 ppm
Concentration per Run 2	-0.0021 ppm	234.6598 ppm	0.0315 ppm	0.0107 ppm	2.3697 ppm	0.0101 ppm	29.6362 ppm
Concentration per Run 3	0.0007 ppm	234.3444 ppm	0.0323 ppm	0.0147 ppm	2.3509 ppm	0.0100 ppm	29.7964 ppm
Concentration RSD	1,079.4 %	0.3 %	4.9 %	16.2 %	0.4 %	0.7 %	0.4 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0036 ppm	0.1510 ppm	0.2977 ppm	0.1678 ppm	252.6547 ppm	26.7642 ppm	0.1806 ppm
Concentration per Run 1	0.0043 ppm	0.1530 ppm	0.2965 ppm	0.1707 ppm	252.7399 ppm	26.7012 ppm	0.1802 ppm
Concentration per Run 2	0.0024 ppm	0.1474 ppm	0.3030 ppm	0.1624 ppm	252.8179 ppm	26.8466 ppm	0.1822 ppm
Concentration per Run 3	0.0040 ppm	0.1526 ppm	0.2935 ppm	0.1701 ppm	252.4064 ppm	26.7449 ppm	0.1794 ppm
Concentration RSD	28.8 %	2.1 %	1.6 %	2.8 %	0.1 %	0.3 %	0.8 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	61.3001 ppm	7.1220 ppm	0.0008 ppm	1.1699 ppm	0.2239 ppm	0.1113 ppm	-0.0087 ppm
Concentration per Run 1	60.6335 ppm	7.1218 ppm	0.0009 ppm	1.1710 ppm	0.2225 ppm	0.1119 ppm	-0.0079 ppm
Concentration per Run 2	62.7902 ppm	7.1048 ppm	0.0008 ppm	1.1730 ppm	0.2279 ppm	0.1116 ppm	-0.0076 ppm
Concentration per Run 3	60.4766 ppm	7.1394 ppm	0.0008 ppm	1.1658 ppm	0.2212 ppm	0.1105 ppm	-0.0107 ppm
Concentration RSD	2.1 %	0.2 %	10.1 %	0.3 %	1.6 %	0.6 %	19.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0000 ppm	4.4805 ppm	0.0158 ppm	0.2205 ppm	5.6937 ppm	-0.0039 ppm	0.2924 ppm
Concentration per Run 1	-0.0001 ppm	4.6476 ppm	0.0171 ppm	0.2209 ppm	5.6378 ppm	-0.0051 ppm	0.2933 ppm
Concentration per Run 2	0.0000 ppm	4.3229 ppm	0.0150 ppm	0.2213 ppm	5.8314 ppm	-0.0019 ppm	0.2911 ppm
Concentration per Run 3	0.0002 ppm	4.4709 ppm	0.0153 ppm	0.2193 ppm	5.6118 ppm	-0.0048 ppm	0.2930 ppm
Concentration RSD	356.1 %	3.6 %	7.4 %	0.5 %	2.1 %	44.0 %	0.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5950 ppm	108.3610 %	112.3588 %	92.8586 %	133.9253 %	147.9480 %	139.5442 %
Concentration per Run 1	0.5901 ppm	107.3074 %	113.4936 %	93.2130 %	129.2980 %	149.0264 %	140.2586 %
Concentration per Run 2	0.6066 ppm	109.5776 %	111.3753 %	93.0728 %	141.1048 %	146.6312 %	139.6414 %
Concentration per Run 3	0.5883 ppm	108.1979 %	112.2074 %	92.2898 %	131.3732 %	148.1864 %	138.7325 %
Concentration RSD	1.7 %	1.1 %	0.9 %	0.5 %	4.7 %	0.8 %	0.6 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2539318-15d2 WG2084309
 Analysis started at: 6/27/2025 3:34:52 PM
 Rack: 1
 Vial: 58
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0018 ppm	176.5081 ppm	0.0333 ppm	0.0112 ppm	1.2937 ppm	0.0077 ppm	11.4009 ppm
Concentration per Run 1	-0.0013 ppm	176.5442 ppm	0.0319 ppm	0.0104 ppm	1.2989 ppm	0.0077 ppm	11.3967 ppm
Concentration per Run 2	-0.0022 ppm	176.2115 ppm	0.0337 ppm	0.0122 ppm	1.2963 ppm	0.0076 ppm	11.3614 ppm
Concentration per Run 3	-0.0021 ppm	176.7685 ppm	0.0343 ppm	0.0110 ppm	1.2860 ppm	0.0076 ppm	11.4446 ppm
Concentration RSD	27.9 %	0.2 %	3.7 %	8.4 %	0.5 %	0.7 %	0.4 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0032 ppm	0.1346 ppm	0.2565 ppm	0.1179 ppm	241.4395 ppm	21.4814 ppm	0.1975 ppm
Concentration per Run 1	0.0032 ppm	0.1354 ppm	0.2559 ppm	0.1185 ppm	241.7895 ppm	21.3217 ppm	0.1973 ppm
Concentration per Run 2	0.0031 ppm	0.1353 ppm	0.2565 ppm	0.1177 ppm	240.2150 ppm	21.7695 ppm	0.1987 ppm
Concentration per Run 3	0.0032 ppm	0.1331 ppm	0.2571 ppm	0.1174 ppm	242.3140 ppm	21.3531 ppm	0.1964 ppm
Concentration RSD	1.2 %	1.0 %	0.2 %	0.5 %	0.5 %	1.2 %	0.6 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	54.0981 ppm	9.5809 ppm	0.0033 ppm	0.8443 ppm	0.1573 ppm	0.1605 ppm	-0.0063 ppm
Concentration per Run 1	53.9785 ppm	9.6039 ppm	0.0035 ppm	0.8462 ppm	0.1560 ppm	0.1596 ppm	-0.0055 ppm
Concentration per Run 2	54.2797 ppm	9.5216 ppm	0.0032 ppm	0.8502 ppm	0.1583 ppm	0.1619 ppm	-0.0055 ppm
Concentration per Run 3	54.0361 ppm	9.6172 ppm	0.0032 ppm	0.8365 ppm	0.1574 ppm	0.1602 ppm	-0.0080 ppm
Concentration RSD	0.3 %	0.5 %	5.2 %	0.8 %	0.7 %	0.8 %	22.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0018 ppm	13.4254 ppm	0.0145 ppm	0.1482 ppm	5.5128 ppm	-0.0053 ppm	0.4402 ppm
Concentration per Run 1	-0.0010 ppm	13.7993 ppm	0.0150 ppm	0.1490 ppm	5.5050 ppm	-0.0045 ppm	0.4396 ppm
Concentration per Run 2	-0.0031 ppm	13.5363 ppm	0.0134 ppm	0.1486 ppm	5.5200 ppm	-0.0052 ppm	0.4411 ppm
Concentration per Run 3	-0.0012 ppm	12.9406 ppm	0.0152 ppm	0.1471 ppm	5.5133 ppm	-0.0062 ppm	0.4398 ppm
Concentration RSD	66.2 %	3.3 %	6.9 %	0.7 %	0.1 %	16.4 %	0.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5592 ppm	105.0332 %	108.4989 %	90.5486 %	108.8091 %	112.6436 %	106.0796 %
Concentration per Run 1	0.5569 ppm	105.9161 %	108.7781 %	90.8628 %	109.7585 %	112.9059 %	106.2769 %
Concentration per Run 2	0.5591 ppm	104.8630 %	108.9415 %	90.2336 %	108.7058 %	112.6488 %	105.9460 %
Concentration per Run 3	0.5615 ppm	104.3205 %	107.7772 %	90.5495 %	107.9629 %	112.3760 %	106.0158 %
Concentration RSD	0.4 %	0.8 %	0.6 %	0.3 %	0.8 %	0.2 %	0.2 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2539318-17d2 WG2084309
 Analysis started at: 6/27/2025 3:38:06 PM
 Rack: 1
 Vial: 59
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0019 ppm	181.3332 ppm	0.0289 ppm	0.0126 ppm	1.3325 ppm	0.0083 ppm	28.0998 ppm
Concentration per Run 1	-0.0017 ppm	181.3203 ppm	0.0297 ppm	0.0115 ppm	1.3308 ppm	0.0083 ppm	28.1304 ppm
Concentration per Run 2	-0.0017 ppm	181.8166 ppm	0.0280 ppm	0.0126 ppm	1.3383 ppm	0.0084 ppm	27.9907 ppm
Concentration per Run 3	-0.0022 ppm	180.8627 ppm	0.0289 ppm	0.0137 ppm	1.3284 ppm	0.0083 ppm	28.1784 ppm
Concentration RSD	15.2 %	0.3 %	3.0 %	8.8 %	0.4 %	0.7 %	0.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0034 ppm	0.1065 ppm	0.2339 ppm	0.1051 ppm	226.8555 ppm	21.3851 ppm	0.1677 ppm
Concentration per Run 1	0.0035 ppm	0.1061 ppm	0.2357 ppm	0.1051 ppm	226.5881 ppm	21.2663 ppm	0.1688 ppm
Concentration per Run 2	0.0034 ppm	0.1073 ppm	0.2335 ppm	0.1055 ppm	226.7227 ppm	21.3802 ppm	0.1675 ppm
Concentration per Run 3	0.0033 ppm	0.1061 ppm	0.2326 ppm	0.1046 ppm	227.2556 ppm	21.5086 ppm	0.1667 ppm
Concentration RSD	3.5 %	0.7 %	0.7 %	0.4 %	0.2 %	0.6 %	0.6 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	47.6843 ppm	8.7342 ppm	0.0023 ppm	0.8377 ppm	0.1593 ppm	0.1521 ppm	-0.0038 ppm
Concentration per Run 1	47.8147 ppm	8.7261 ppm	0.0028 ppm	0.8496 ppm	0.1608 ppm	0.1498 ppm	-0.0061 ppm
Concentration per Run 2	47.5117 ppm	8.7256 ppm	0.0018 ppm	0.8388 ppm	0.1584 ppm	0.1525 ppm	-0.0024 ppm
Concentration per Run 3	47.7266 ppm	8.7511 ppm	0.0024 ppm	0.8247 ppm	0.1586 ppm	0.1542 ppm	-0.0028 ppm
Concentration RSD	0.3 %	0.2 %	21.8 %	1.5 %	0.8 %	1.5 %	53.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0015 ppm	12.1437 ppm	0.0165 ppm	0.1332 ppm	4.8790 ppm	-0.0036 ppm	0.3038 ppm
Concentration per Run 1	-0.0016 ppm	12.2408 ppm	0.0161 ppm	0.1323 ppm	4.8973 ppm	-0.0040 ppm	0.3028 ppm
Concentration per Run 2	0.0013 ppm	11.8402 ppm	0.0165 ppm	0.1341 ppm	4.8754 ppm	-0.0031 ppm	0.3042 ppm
Concentration per Run 3	0.0048 ppm	12.3499 ppm	0.0168 ppm	0.1332 ppm	4.8645 ppm	-0.0038 ppm	0.3044 ppm
Concentration RSD	215.3 %	2.2 %	2.1 %	0.7 %	0.3 %	13.0 %	0.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6538 ppm	105.4577 %	108.3464 %	90.3566 %	127.1724 %	132.2751 %	123.8929 %
Concentration per Run 1	0.6590 ppm	104.1742 %	107.9562 %	91.2444 %	125.9347 %	131.9786 %	125.0025 %
Concentration per Run 2	0.6511 ppm	105.9520 %	108.5359 %	90.1518 %	127.3782 %	132.6019 %	123.8287 %
Concentration per Run 3	0.6512 ppm	106.2471 %	108.5472 %	89.6737 %	128.2043 %	132.2448 %	122.8476 %
Concentration RSD	0.7 %	1.1 %	0.3 %	0.9 %	0.9 %	0.2 %	0.9 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: CCV
Analysis started at: 6/27/2025 3:43:20 PM
Rack: 0
Vial: 3
Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.5290 ppm	0.4854 ppm	0.4733 ppm	0.4954 ppm	0.4994 ppm	0.4976 ppm	0.4828 ppm
Concentration per Run 1	0.5288 ppm	0.4840 ppm	0.4721 ppm	0.4929 ppm	0.5019 ppm	0.4995 ppm	0.4852 ppm
Concentration per Run 2	0.5298 ppm	0.4850 ppm	0.4781 ppm	0.4989 ppm	0.4964 ppm	0.4971 ppm	0.4819 ppm
Concentration per Run 3	0.5285 ppm	0.4873 ppm	0.4697 ppm	0.4943 ppm	0.5000 ppm	0.4961 ppm	0.4814 ppm
Recovery Percentage 1	105.805 %	97.087 %	94.660 %	99.073 %	99.883 %	99.513 %	96.566 %
Concentration RSD	0.1 %	0.4 %	0.9 %	0.6 %	0.6 %	0.3 %	0.4 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.4696 ppm	0.4968 ppm	0.5145 ppm	0.5005 ppm	0.5027 ppm	5.1811 ppm	0.5238 ppm
Concentration per Run 1	0.4701 ppm	0.4954 ppm	0.5146 ppm	0.4968 ppm	0.5024 ppm	5.1882 ppm	0.5219 ppm
Concentration per Run 2	0.4681 ppm	0.4982 ppm	0.5155 ppm	0.5041 ppm	0.5020 ppm	5.1379 ppm	0.5191 ppm
Concentration per Run 3	0.4707 ppm	0.4967 ppm	0.5134 ppm	0.5006 ppm	0.5037 ppm	5.2171 ppm	0.5306 ppm
Recovery Percentage 1	93.927 %	99.357 %	102.901 %	100.107 %	100.537 %	103.622 %	104.768 %
Concentration RSD	0.3 %	0.3 %	0.2 %	0.7 %	0.2 %	0.8 %	1.1 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.5079 ppm	0.4952 ppm	0.4994 ppm	10.3700 ppm	0.5194 ppm	0.5027 ppm	0.4885 ppm
Concentration per Run 1	0.5074 ppm	0.4958 ppm	0.4974 ppm	10.2661 ppm	0.5204 ppm	0.5013 ppm	0.4833 ppm
Concentration per Run 2	0.5062 ppm	0.4949 ppm	0.5008 ppm	10.3833 ppm	0.5198 ppm	0.5056 ppm	0.4928 ppm
Concentration per Run 3	0.5100 ppm	0.4950 ppm	0.4999 ppm	10.4607 ppm	0.5178 ppm	0.5012 ppm	0.4895 ppm
Recovery Percentage 1	101.575 %	99.048 %	99.872 %	103.700 %	103.871 %	100.538 %	97.705 %
Concentration RSD	0.4 %	0.1 %	0.4 %	0.9 %	0.3 %	0.5 %	1.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.4853 ppm	5.3880 ppm	0.5049 ppm	0.5036 ppm	0.5119 ppm	0.5098 ppm	0.4855 ppm
Concentration per Run 1	0.4843 ppm	5.3697 ppm	0.5032 ppm	0.5056 ppm	0.5116 ppm	0.5096 ppm	0.4863 ppm
Concentration per Run 2	0.4895 ppm	5.4079 ppm	0.5079 ppm	0.4998 ppm	0.5132 ppm	0.5121 ppm	0.4857 ppm
Concentration per Run 3	0.4820 ppm	5.3865 ppm	0.5037 ppm	0.5053 ppm	0.5109 ppm	0.5076 ppm	0.4843 ppm
Recovery Percentage 1	97.052 %	102.629 %	100.987 %	100.713 %	102.381 %	101.956 %	97.090 %
Concentration RSD	0.8 %	0.4 %	0.5 %	0.7 %	0.2 %	0.4 %	0.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5026 ppm	101.2855 %	101.6365 %	98.5839 %	100.0992 %	100.3425 %	98.0143 %
Concentration per Run 1	0.5036 ppm	101.5616 %	100.6705 %	99.0211 %	100.3439 %	99.2257 %	98.3712 %
Concentration per Run 2	0.5019 ppm	101.3296 %	102.4592 %	98.7480 %	100.0515 %	101.1068 %	98.5230 %
Concentration per Run 3	0.5024 ppm	100.9652 %	101.7800 %	97.9825 %	99.9022 %	100.6951 %	97.1486 %
Recovery Percentage 1	100.523 %						
Concentration RSD	0.2 %	0.3 %	0.9 %	0.5 %	0.2 %	1.0 %	0.8 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: CCB
 Analysis started at: 6/27/2025 3:46:34 PM
 Rack: 0
 Vial: 4
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0003 ppm	0.0070 ppm	0.0002 ppm	-0.0016 ppm	0.0000 ppm	0.0000 ppm	-0.0007 ppm
Concentration per Run 1	0.0006 ppm	0.0020 ppm	0.0011 ppm	-0.0018 ppm	-0.0001 ppm	0.0000 ppm	-0.0004 ppm
Concentration per Run 2	0.0002 ppm	0.0058 ppm	-0.0007 ppm	-0.0012 ppm	-0.0001 ppm	0.0000 ppm	-0.0016 ppm
Concentration per Run 3	0.0002 ppm	0.0133 ppm	0.0002 ppm	-0.0016 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm
Recovery Percentage 1	4.533 %	7.020 %	3.908 %	-5.216 %	-0.478 %	0.736 %	-0.697 %
Concentration RSD	66.5 %	81.8 %	462.7 %	18.9 %	55.6 %	46.4 %	110.7 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0002 ppm	0.0003 ppm	0.0033 ppm	0.0079 ppm	-0.0001 ppm
Concentration per Run 1	0.0001 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0037 ppm	0.0082 ppm	-0.0003 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0001 ppm	0.0029 ppm	0.0080 ppm	0.0002 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	0.0003 ppm	0.0004 ppm	0.0034 ppm	0.0074 ppm	-0.0002 ppm
Recovery Percentage 1	0.583 %	-0.081 %	2.045 %	3.169 %	6.640 %	0.314 %	-1.182 %
Concentration RSD	154.4 %	456.8 %	102.0 %	57.7 %	12.8 %	5.0 %	444.2 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0005 ppm	0.0001 ppm	0.0023 ppm	-0.0025 ppm	0.0003 ppm	0.0002 ppm	0.0005 ppm
Concentration per Run 1	0.0007 ppm	0.0001 ppm	0.0025 ppm	-0.0040 ppm	0.0001 ppm	0.0001 ppm	0.0008 ppm
Concentration per Run 2	-0.0005 ppm	0.0001 ppm	0.0025 ppm	-0.0035 ppm	0.0002 ppm	0.0012 ppm	-0.0002 ppm
Concentration per Run 3	0.0014 ppm	0.0001 ppm	0.0020 ppm	0.0000 ppm	0.0006 ppm	-0.0006 ppm	0.0008 ppm
Recovery Percentage 1	0.516 %	1.239 %	4.656 %	-0.125 %	1.184 %	2.293 %	0.955 %
Concentration RSD	188.6 %	7.7 %	12.9 %	88.5 %	80.3 %	402.0 %	117.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0008 ppm	0.0061 ppm	-0.0002 ppm	0.0000 ppm	0.0008 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 1	0.0013 ppm	0.0108 ppm	-0.0003 ppm	0.0000 ppm	0.0008 ppm	-0.0004 ppm	0.0000 ppm
Concentration per Run 2	0.0002 ppm	0.0038 ppm	0.0001 ppm	0.0000 ppm	0.0007 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 3	0.0008 ppm	0.0038 ppm	-0.0004 ppm	0.0000 ppm	0.0007 ppm	0.0003 ppm	0.0000 ppm
Recovery Percentage 1	7.910 %	1.228 %	-0.372 %	0.015 %	7.599 %	-0.020 %	0.387 %
Concentration RSD	71.2 %	66.3 %	133.1 %	1,605.0 %	9.8 %	9,540.1 %	37.0 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0008 ppm	101.8657 %	101.2957 %	99.5737 %	102.6707 %	101.7665 %	99.7873 %
Concentration per Run 1	-0.0007 ppm	101.8001 %	100.9763 %	99.2554 %	102.1024 %	101.7298 %	99.5667 %
Concentration per Run 2	-0.0009 ppm	101.5070 %	102.1826 %	99.9933 %	102.5296 %	101.8676 %	100.1437 %
Concentration per Run 3	-0.0007 ppm	102.2902 %	100.7283 %	99.4723 %	103.3801 %	101.7021 %	99.6516 %
Recovery Percentage 1	-15.049 %						
Concentration RSD	13.9 %	0.4 %	0.8 %	0.4 %	0.6 %	0.1 %	0.3 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: LDR 500 FE
 Analysis started at: 6/27/2025 3:57:26 PM
 Rack: 1
 Vial: 60
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0067 ppm	0.0157 ppm	-0.0036 ppm	0.0008 ppm	0.0005 ppm	0.0000 ppm	0.0027 ppm
Concentration per Run 1	-0.0063 ppm	0.0182 ppm	-0.0023 ppm	-0.0002 ppm	0.0004 ppm	0.0000 ppm	0.0022 ppm
Concentration per Run 2	-0.0071 ppm	0.0109 ppm	-0.0052 ppm	0.0008 ppm	0.0005 ppm	0.0000 ppm	0.0032 ppm
Concentration per Run 3	-0.0067 ppm	0.0180 ppm	-0.0033 ppm	0.0016 ppm	0.0004 ppm	0.0000 ppm	0.0026 ppm
Concentration RSD	5.8 %	26.6 %	41.1 %	117.7 %	11.0 %	1,764.7 %	19.5 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0032 ppm	-0.0028 ppm	-0.0022 ppm	-0.0046 ppm	455.6935 ppm	-0.0696 ppm	0.0001 ppm
Concentration per Run 1	0.0031 ppm	-0.0028 ppm	-0.0017 ppm	-0.0046 ppm	456.6500 ppm	-0.0775 ppm	0.0004 ppm
Concentration per Run 2	0.0032 ppm	-0.0025 ppm	-0.0024 ppm	-0.0050 ppm	454.9631 ppm	-0.0658 ppm	0.0000 ppm
Concentration per Run 3	0.0034 ppm	-0.0031 ppm	-0.0024 ppm	-0.0042 ppm	455.4675 ppm	-0.0655 ppm	0.0000 ppm
Concentration RSD	4.4 %	11.4 %	18.1 %	8.6 %	0.2 %	9.8 %	246.5 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0280 ppm	-0.0019 ppm	-0.0031 ppm	0.0018 ppm	-0.0024 ppm	-0.0004 ppm	-0.0078 ppm
Concentration per Run 1	0.0265 ppm	-0.0019 ppm	-0.0029 ppm	-0.0017 ppm	-0.0027 ppm	-0.0006 ppm	-0.0073 ppm
Concentration per Run 2	0.0285 ppm	-0.0017 ppm	-0.0033 ppm	0.0036 ppm	-0.0025 ppm	-0.0005 ppm	-0.0086 ppm
Concentration per Run 3	0.0291 ppm	-0.0020 ppm	-0.0031 ppm	0.0035 ppm	-0.0021 ppm	-0.0001 ppm	-0.0076 ppm
Concentration RSD	4.8 %	10.0 %	6.4 %	170.3 %	12.2 %	64.7 %	8.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0043 ppm	-0.0006 ppm	0.0013 ppm	0.0003 ppm	0.0001 ppm	-0.0002 ppm	-0.0050 ppm
Concentration per Run 1	-0.0041 ppm	0.0005 ppm	0.0018 ppm	0.0003 ppm	0.0001 ppm	-0.0001 ppm	-0.0051 ppm
Concentration per Run 2	-0.0034 ppm	-0.0005 ppm	0.0012 ppm	0.0004 ppm	0.0000 ppm	0.0003 ppm	-0.0046 ppm
Concentration per Run 3	-0.0053 ppm	-0.0017 ppm	0.0011 ppm	0.0003 ppm	0.0002 ppm	-0.0009 ppm	-0.0053 ppm
Concentration RSD	22.5 %	190.5 %	28.1 %	12.3 %	87.1 %	268.5 %	6.8 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0022 ppm	99.2558 %	100.5668 %	87.7680 %	98.7431 %	98.6875 %	94.4095 %
Concentration per Run 1	-0.0021 ppm	99.6498 %	100.1971 %	87.6431 %	99.0470 %	98.4045 %	94.4767 %
Concentration per Run 2	-0.0023 ppm	99.5032 %	101.0424 %	87.7580 %	98.9741 %	98.9165 %	94.1315 %
Concentration per Run 3	-0.0024 ppm	98.6144 %	100.4608 %	87.9029 %	98.2084 %	98.7414 %	94.6203 %
Concentration RSD	7.1 %	0.6 %	0.4 %	0.1 %	0.5 %	0.3 %	0.3 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2539318-11d2 WG2084309
 Analysis started at: 6/27/2025 4:14:19 PM
 Rack: 2
 Vial: 1
 Comment: Instrument issue

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0027 ppm	188.1094 ppm	0.0316 ppm	0.0109 ppm	1.5098 ppm	0.0079 ppm	20.3104 ppm
Concentration per Run 1	-0.0025 ppm	190.8163 ppm	0.0328 ppm	0.0114 ppm	1.5300 ppm	0.0080 ppm	20.4718 ppm
Concentration per Run 2	-0.0027 ppm	185.5751 ppm	0.0313 ppm	0.0104 ppm	1.4981 ppm	0.0079 ppm	20.1137 ppm
Concentration per Run 3	-0.0029 ppm	187.9368 ppm	0.0307 ppm	0.0110 ppm	1.5013 ppm	0.0079 ppm	20.3458 ppm
Concentration RSD	7.1 %	1.4 %	3.4 %	4.4 %	1.2 %	0.4 %	0.9 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0027 ppm	0.1245 ppm	0.2757 ppm	0.1408 ppm	233.8402 ppm	19.6686 ppm	0.1871 ppm
Concentration per Run 1	0.0027 ppm	0.1259 ppm	0.2779 ppm	0.1409 ppm	234.6233 ppm	19.8728 ppm	0.1924 ppm
Concentration per Run 2	0.0026 ppm	0.1238 ppm	0.2761 ppm	0.1408 ppm	233.3408 ppm	19.4396 ppm	0.1836 ppm
Concentration per Run 3	0.0028 ppm	0.1239 ppm	0.2730 ppm	0.1408 ppm	233.5564 ppm	19.6934 ppm	0.1852 ppm
Concentration RSD	3.0 %	0.9 %	0.9 %	0.0 %	0.3 %	1.1 %	2.5 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	59.4037 ppm	6.9247 ppm	0.0014 ppm	0.9235 ppm	0.1866 ppm	0.1615 ppm	-0.0045 ppm
Concentration per Run 1	59.6287 ppm	7.0153 ppm	0.0016 ppm	0.9368 ppm	0.1891 ppm	0.1626 ppm	-0.0036 ppm
Concentration per Run 2	59.5540 ppm	6.8658 ppm	0.0014 ppm	0.9085 ppm	0.1869 ppm	0.1611 ppm	-0.0053 ppm
Concentration per Run 3	59.0283 ppm	6.8929 ppm	0.0012 ppm	0.9252 ppm	0.1837 ppm	0.1608 ppm	-0.0045 ppm
Concentration RSD	0.6 %	1.2 %	14.2 %	1.5 %	1.5 %	0.6 %	19.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0003 ppm	7.0748 ppm	0.0224 ppm	0.1241 ppm	5.7267 ppm	-0.0009 ppm	0.3422 ppm
Concentration per Run 1	0.0001 ppm	6.9912 ppm	0.0233 ppm	0.1251 ppm	5.7450 ppm	-0.0012 ppm	0.3427 ppm
Concentration per Run 2	-0.0012 ppm	7.0594 ppm	0.0223 ppm	0.1231 ppm	5.7274 ppm	-0.0021 ppm	0.3420 ppm
Concentration per Run 3	0.0001 ppm	7.1737 ppm	0.0216 ppm	0.1243 ppm	5.7077 ppm	0.0007 ppm	0.3420 ppm
Concentration RSD	219.9 %	1.3 %	3.8 %	0.8 %	0.3 %	164.2 %	0.1 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.6533 ppm	106.7694 %	110.7133 %	92.8346 %	130.5811 %	135.1518 %	128.2165 %
Concentration per Run 1	0.6596 ppm	106.8470 %	110.3452 %	92.7587 %	130.8675 %	135.4720 %	128.3819 %
Concentration per Run 2	0.6571 ppm	106.6012 %	111.3125 %	93.1791 %	130.8439 %	134.5597 %	128.1286 %
Concentration per Run 3	0.6433 ppm	106.8598 %	110.4823 %	92.5661 %	130.0319 %	135.4236 %	128.1391 %
Concentration RSD	1.3 %	0.1 %	0.5 %	0.3 %	0.4 %	0.4 %	0.1 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: xL2539318-11d10 WG2084309
 Analysis started at: 6/27/2025 4:17:37 PM
 Rack: 2
 Vial: 2
 Comment: False tl+

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0001 ppm	39.7006 ppm	0.0076 ppm	0.0008 ppm	0.3218 ppm	0.0017 ppm	4.3730 ppm
Concentration per Run 1	0.0002 ppm	39.7108 ppm	0.0080 ppm	0.0001 ppm	0.3222 ppm	0.0017 ppm	4.3900 ppm
Concentration per Run 2	-0.0002 ppm	39.7510 ppm	0.0064 ppm	0.0009 ppm	0.3217 ppm	0.0017 ppm	4.3889 ppm
Concentration per Run 3	-0.0005 ppm	39.6400 ppm	0.0085 ppm	0.0012 ppm	0.3215 ppm	0.0017 ppm	4.3401 ppm
Concentration RSD	276.7 %	0.1 %	14.3 %	74.8 %	0.1 %	1.3 %	0.7 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0006 ppm	0.0270 ppm	0.0579 ppm	0.0346 ppm	54.6400 ppm	4.0067 ppm	0.0387 ppm
Concentration per Run 1	0.0007 ppm	0.0270 ppm	0.0580 ppm	0.0348 ppm	54.7671 ppm	4.0015 ppm	0.0391 ppm
Concentration per Run 2	0.0005 ppm	0.0269 ppm	0.0574 ppm	0.0343 ppm	54.6514 ppm	3.9809 ppm	0.0383 ppm
Concentration per Run 3	0.0005 ppm	0.0271 ppm	0.0582 ppm	0.0346 ppm	54.5016 ppm	4.0378 ppm	0.0388 ppm
Concentration RSD	19.3 %	0.2 %	0.7 %	0.6 %	0.2 %	0.7 %	1.1 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	12.8960 ppm	1.5169 ppm	0.0002 ppm	0.1799 ppm	0.0407 ppm	0.0328 ppm	-0.0007 ppm
Concentration per Run 1	12.9250 ppm	1.5159 ppm	0.0003 ppm	0.1790 ppm	0.0409 ppm	0.0324 ppm	0.0022 ppm
Concentration per Run 2	12.8822 ppm	1.5186 ppm	0.0003 ppm	0.1808 ppm	0.0407 ppm	0.0342 ppm	-0.0026 ppm
Concentration per Run 3	12.8808 ppm	1.5161 ppm	0.0001 ppm	0.1799 ppm	0.0406 ppm	0.0320 ppm	-0.0016 ppm
Concentration RSD	0.2 %	0.1 %	32.2 %	0.5 %	0.4 %	3.5 %	386.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0008 ppm	1.2057 ppm	0.0041 ppm	0.0259 ppm	1.1968 ppm	-0.0015 ppm	0.0832 ppm
Concentration per Run 1	-0.0003 ppm	1.2165 ppm	0.0042 ppm	0.0262 ppm	1.2036 ppm	-0.0019 ppm	0.0829 ppm
Concentration per Run 2	0.0023 ppm	1.1939 ppm	0.0038 ppm	0.0259 ppm	1.1969 ppm	-0.0014 ppm	0.0831 ppm
Concentration per Run 3	0.0004 ppm	1.2068 ppm	0.0044 ppm	0.0258 ppm	1.1897 ppm	-0.0014 ppm	0.0836 ppm
Concentration RSD	163.1 %	0.9 %	7.1 %	0.8 %	0.6 %	18.9 %	0.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.1378 ppm	103.9908 %	104.0383 %	97.9218 %	107.3091 %	107.7150 %	105.4737 %
Concentration per Run 1	0.1379 ppm	104.3877 %	103.3734 %	98.1672 %	107.5179 %	107.2753 %	105.2281 %
Concentration per Run 2	0.1374 ppm	104.0110 %	104.4460 %	98.1144 %	107.5263 %	108.3563 %	106.0427 %
Concentration per Run 3	0.1381 ppm	103.5736 %	104.2955 %	97.4837 %	106.8830 %	107.5135 %	105.1504 %
Concentration RSD	0.3 %	0.4 %	0.6 %	0.4 %	0.3 %	0.5 %	0.5 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: WG2084297-2d2 WG2084297
 Analysis started at: 6/27/2025 4:28:18 PM
 Rack: 2
 Vial: 3
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.3217 ppm	15.2887 ppm	0.7361 ppm	0.7061 ppm	0.7939 ppm	0.5846 ppm	14.7471 ppm
Concentration per Run 1	0.3234 ppm	15.3593 ppm	0.7357 ppm	0.7142 ppm	0.7920 ppm	0.5845 ppm	14.7331 ppm
Concentration per Run 2	0.3227 ppm	15.2485 ppm	0.7368 ppm	0.7040 ppm	0.7931 ppm	0.5842 ppm	14.7681 ppm
Concentration per Run 3	0.3191 ppm	15.2582 ppm	0.7359 ppm	0.7001 ppm	0.7966 ppm	0.5852 ppm	14.7399 ppm
Concentration RSD	0.7 %	0.4 %	0.1 %	1.0 %	0.3 %	0.1 %	0.1 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.4715 ppm	0.9266 ppm	0.6221 ppm	0.3409 ppm	17.7020 ppm	5.4370 ppm	0.3732 ppm
Concentration per Run 1	0.4739 ppm	0.9288 ppm	0.6255 ppm	0.3416 ppm	17.7207 ppm	5.4188 ppm	0.3708 ppm
Concentration per Run 2	0.4722 ppm	0.9296 ppm	0.6238 ppm	0.3407 ppm	17.7053 ppm	5.3656 ppm	0.3667 ppm
Concentration per Run 3	0.4684 ppm	0.9213 ppm	0.6171 ppm	0.3405 ppm	17.6800 ppm	5.5268 ppm	0.3820 ppm
Concentration RSD	0.6 %	0.5 %	0.7 %	0.2 %	0.1 %	1.5 %	2.1 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	6.0496 ppm	1.5851 ppm	0.5872 ppm	7.6367 ppm	0.6118 ppm	0.5541 ppm	0.4508 ppm
Concentration per Run 1	6.0776 ppm	1.5836 ppm	0.5909 ppm	7.5526 ppm	0.6180 ppm	0.5549 ppm	0.4466 ppm
Concentration per Run 2	6.0646 ppm	1.5856 ppm	0.5875 ppm	7.5707 ppm	0.6155 ppm	0.5548 ppm	0.4513 ppm
Concentration per Run 3	6.0065 ppm	1.5863 ppm	0.5831 ppm	7.7868 ppm	0.6019 ppm	0.5527 ppm	0.4546 ppm
Concentration RSD	0.6 %	0.1 %	0.7 %	1.7 %	1.4 %	0.2 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.3679 ppm	9.4505 ppm	0.3845 ppm	0.7524 ppm	1.3861 ppm	0.8285 ppm	0.5630 ppm
Concentration per Run 1	0.3680 ppm	9.6831 ppm	0.3903 ppm	0.7495 ppm	1.3923 ppm	0.8302 ppm	0.5627 ppm
Concentration per Run 2	0.3674 ppm	9.4537 ppm	0.3856 ppm	0.7538 ppm	1.3849 ppm	0.8284 ppm	0.5637 ppm
Concentration per Run 3	0.3683 ppm	9.2149 ppm	0.3778 ppm	0.7538 ppm	1.3810 ppm	0.8270 ppm	0.5625 ppm
Concentration RSD	0.1 %	2.5 %	1.6 %	0.3 %	0.4 %	0.2 %	0.1 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	1.1655 ppm	101.9087 %	102.5056 %	95.9909 %	105.8020 %	106.4303 %	102.9835 %
Concentration per Run 1	1.1782 ppm	101.5167 %	103.3214 %	96.1952 %	106.0331 %	106.7481 %	103.0193 %
Concentration per Run 2	1.1709 ppm	101.6831 %	103.0655 %	96.0781 %	105.7798 %	107.0077 %	103.1210 %
Concentration per Run 3	1.1473 ppm	102.5263 %	101.1297 %	95.6995 %	105.5931 %	105.5350 %	102.8102 %
Concentration RSD	1.4 %	0.5 %	1.2 %	0.3 %	0.2 %	0.7 %	0.2 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: WG2084297-3d2 WG2084297
 Analysis started at: 6/27/2025 4:31:37 PM
 Rack: 2
 Vial: 4
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.3353 ppm	16.1351 ppm	0.7793 ppm	0.7382 ppm	0.8941 ppm	0.6229 ppm	15.8557 ppm
Concentration per Run 1	0.3341 ppm	16.1211 ppm	0.7771 ppm	0.7303 ppm	0.8939 ppm	0.6239 ppm	15.9209 ppm
Concentration per Run 2	0.3357 ppm	16.0859 ppm	0.7828 ppm	0.7403 ppm	0.8928 ppm	0.6220 ppm	15.8230 ppm
Concentration per Run 3	0.3361 ppm	16.1982 ppm	0.7779 ppm	0.7441 ppm	0.8955 ppm	0.6227 ppm	15.8231 ppm
Concentration RSD	0.3 %	0.4 %	0.4 %	1.0 %	0.2 %	0.2 %	0.4 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.4456 ppm	0.9620 ppm	0.6546 ppm	0.3576 ppm	19.2787 ppm	5.8019 ppm	0.4002 ppm
Concentration per Run 1	0.4460 ppm	0.9588 ppm	0.6503 ppm	0.3558 ppm	19.3270 ppm	5.7682 ppm	0.3964 ppm
Concentration per Run 2	0.4444 ppm	0.9625 ppm	0.6567 ppm	0.3581 ppm	19.2324 ppm	5.7819 ppm	0.3977 ppm
Concentration per Run 3	0.4465 ppm	0.9646 ppm	0.6568 ppm	0.3589 ppm	19.2766 ppm	5.8555 ppm	0.4065 ppm
Concentration RSD	0.2 %	0.3 %	0.6 %	0.5 %	0.2 %	0.8 %	1.4 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	6.1808 ppm	1.6648 ppm	0.6168 ppm	8.0548 ppm	0.6324 ppm	0.5859 ppm	0.4404 ppm
Concentration per Run 1	6.1822 ppm	1.6736 ppm	0.6139 ppm	7.9682 ppm	0.6275 ppm	0.5856 ppm	0.4427 ppm
Concentration per Run 2	6.1795 ppm	1.6577 ppm	0.6179 ppm	8.0278 ppm	0.6381 ppm	0.5861 ppm	0.4357 ppm
Concentration per Run 3	6.1808 ppm	1.6630 ppm	0.6188 ppm	8.1684 ppm	0.6317 ppm	0.5860 ppm	0.4429 ppm
Concentration RSD	0.0 %	0.5 %	0.4 %	1.3 %	0.9 %	0.0 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.3960 ppm	9.6685 ppm	0.3960 ppm	0.8480 ppm	1.4292 ppm	0.7748 ppm	0.5893 ppm
Concentration per Run 1	0.3948 ppm	9.7912 ppm	0.3917 ppm	0.8487 ppm	1.4319 ppm	0.7739 ppm	0.5889 ppm
Concentration per Run 2	0.3972 ppm	9.6192 ppm	0.3973 ppm	0.8449 ppm	1.4330 ppm	0.7743 ppm	0.5888 ppm
Concentration per Run 3	0.3960 ppm	9.5949 ppm	0.3989 ppm	0.8503 ppm	1.4227 ppm	0.7762 ppm	0.5900 ppm
Concentration RSD	0.3 %	1.1 %	1.0 %	0.3 %	0.4 %	0.2 %	0.1 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	1.2130 ppm	102.0157 %	102.1544 %	95.9400 %	106.2173 %	106.6064 %	103.3965 %
Concentration per Run 1	1.2048 ppm	103.0081 %	102.2674 %	95.7023 %	107.1580 %	106.7402 %	103.0964 %
Concentration per Run 2	1.2210 ppm	101.6206 %	102.0444 %	96.0084 %	105.6860 %	106.3783 %	103.5999 %
Concentration per Run 3	1.2132 ppm	101.4185 %	102.1513 %	96.1091 %	105.8080 %	106.7006 %	103.4933 %
Concentration RSD	0.7 %	0.8 %	0.1 %	0.2 %	0.8 %	0.2 %	0.3 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: OB 013-01 d10
 Analysis started at: 6/27/2025 4:43:42 PM
 Rack: 2
 Vial: 5
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0003 ppm	0.3835 ppm	-0.0008 ppm	0.0162 ppm	0.0205 ppm	0.0000 ppm	47.7222 ppm
Concentration per Run 1	0.0000 ppm	0.3866 ppm	-0.0016 ppm	0.0150 ppm	0.0205 ppm	0.0000 ppm	47.6102 ppm
Concentration per Run 2	0.0005 ppm	0.3838 ppm	0.0010 ppm	0.0170 ppm	0.0205 ppm	0.0001 ppm	47.5170 ppm
Concentration per Run 3	0.0003 ppm	0.3800 ppm	-0.0017 ppm	0.0167 ppm	0.0204 ppm	0.0000 ppm	48.0393 ppm
Concentration RSD	85.5 %	0.9 %	200.8 %	6.6 %	0.4 %	34.3 %	0.6 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0001 ppm	0.0008 ppm	0.0009 ppm	0.0006 ppm	0.0925 ppm	1.3125 ppm	0.0014 ppm
Concentration per Run 1	-0.0001 ppm	0.0008 ppm	0.0009 ppm	0.0003 ppm	0.0926 ppm	1.3260 ppm	0.0019 ppm
Concentration per Run 2	-0.0001 ppm	0.0011 ppm	0.0010 ppm	0.0008 ppm	0.0921 ppm	1.3033 ppm	0.0013 ppm
Concentration per Run 3	-0.0002 ppm	0.0005 ppm	0.0010 ppm	0.0008 ppm	0.0929 ppm	1.3083 ppm	0.0008 ppm
Concentration RSD	36.2 %	37.8 %	4.5 %	40.5 %	0.4 %	0.9 %	39.5 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.7985 ppm	0.0797 ppm	0.0008 ppm	140.2901 ppm	0.0031 ppm	0.0011 ppm	0.0004 ppm
Concentration per Run 1	0.7982 ppm	0.0797 ppm	0.0007 ppm	140.5170 ppm	0.0033 ppm	0.0012 ppm	0.0018 ppm
Concentration per Run 2	0.8007 ppm	0.0793 ppm	0.0010 ppm	140.3332 ppm	0.0028 ppm	0.0007 ppm	0.0004 ppm
Concentration per Run 3	0.7964 ppm	0.0800 ppm	0.0008 ppm	140.0200 ppm	0.0032 ppm	0.0013 ppm	-0.0010 ppm
Concentration RSD	0.3 %	0.5 %	22.9 %	0.2 %	9.9 %	29.4 %	347.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0006 ppm	6.4662 ppm	-0.0002 ppm	0.2454 ppm	0.0089 ppm	-0.0006 ppm	0.0005 ppm
Concentration per Run 1	-0.0002 ppm	6.4257 ppm	-0.0005 ppm	0.2450 ppm	0.0089 ppm	-0.0008 ppm	0.0006 ppm
Concentration per Run 2	0.0010 ppm	6.4906 ppm	-0.0001 ppm	0.2470 ppm	0.0090 ppm	-0.0006 ppm	0.0005 ppm
Concentration per Run 3	0.0011 ppm	6.4824 ppm	0.0000 ppm	0.2442 ppm	0.0090 ppm	-0.0004 ppm	0.0004 ppm
Concentration RSD	109.8 %	0.5 %	120.3 %	0.6 %	0.4 %	37.4 %	20.8 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0142 ppm	97.5921 %	101.0110 %	90.6340 %	95.5258 %	99.2664 %	94.0174 %
Concentration per Run 1	0.0143 ppm	98.1887 %	101.4532 %	90.8853 %	96.3893 %	100.0610 %	94.2338 %
Concentration per Run 2	0.0143 ppm	96.8455 %	101.3518 %	90.3773 %	94.6099 %	99.3531 %	93.8096 %
Concentration per Run 3	0.0142 ppm	97.7421 %	100.2279 %	90.6394 %	95.5783 %	98.3852 %	94.0087 %
Concentration RSD	0.4 %	0.7 %	0.7 %	0.3 %	0.9 %	0.8 %	0.2 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: CCV
 Analysis started at: 6/27/2025 4:47:01 PM
 Rack: 0
 Vial: 3
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.5248 ppm	0.4816 ppm	0.4670 ppm	0.4901 ppm	0.4944 ppm	0.4946 ppm	0.4806 ppm
Concentration per Run 1	0.5273 ppm	0.4816 ppm	0.4647 ppm	0.4941 ppm	0.4916 ppm	0.4940 ppm	0.4774 ppm
Concentration per Run 2	0.5241 ppm	0.4786 ppm	0.4694 ppm	0.4919 ppm	0.4939 ppm	0.4933 ppm	0.4803 ppm
Concentration per Run 3	0.5230 ppm	0.4846 ppm	0.4668 ppm	0.4842 ppm	0.4977 ppm	0.4964 ppm	0.4842 ppm
Recovery Percentage 1	104.964 %	96.315 %	93.398 %	98.016 %	98.882 %	98.910 %	96.128 %
Concentration RSD	0.4 %	0.6 %	0.5 %	1.1 %	0.6 %	0.3 %	0.7 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.4636 ppm	0.4902 ppm	0.5077 ppm	0.4990 ppm	0.4931 ppm	5.1170 ppm	0.5202 ppm
Concentration per Run 1	0.4645 ppm	0.4903 ppm	0.5117 ppm	0.4966 ppm	0.4966 ppm	5.1006 ppm	0.5182 ppm
Concentration per Run 2	0.4623 ppm	0.4897 ppm	0.5081 ppm	0.5000 ppm	0.4906 ppm	5.0938 ppm	0.5198 ppm
Concentration per Run 3	0.4641 ppm	0.4905 ppm	0.5032 ppm	0.5003 ppm	0.4919 ppm	5.1567 ppm	0.5225 ppm
Recovery Percentage 1	92.722 %	98.034 %	101.540 %	99.797 %	98.610 %	102.340 %	104.035 %
Concentration RSD	0.3 %	0.1 %	0.8 %	0.4 %	0.6 %	0.7 %	0.4 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.5013 ppm	0.4943 ppm	0.4924 ppm	10.2604 ppm	0.5104 ppm	0.4991 ppm	0.4868 ppm
Concentration per Run 1	0.5063 ppm	0.4937 ppm	0.4942 ppm	10.2769 ppm	0.5166 ppm	0.5001 ppm	0.4837 ppm
Concentration per Run 2	0.4996 ppm	0.4946 ppm	0.4925 ppm	10.2410 ppm	0.5104 ppm	0.4993 ppm	0.4884 ppm
Concentration per Run 3	0.4980 ppm	0.4947 ppm	0.4906 ppm	10.2632 ppm	0.5043 ppm	0.4980 ppm	0.4882 ppm
Recovery Percentage 1	100.264 %	98.862 %	98.487 %	102.604 %	102.086 %	99.826 %	97.354 %
Concentration RSD	0.9 %	0.1 %	0.4 %	0.2 %	1.2 %	0.2 %	0.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.4778 ppm	5.3095 ppm	0.4968 ppm	0.5007 ppm	0.5062 ppm	0.5041 ppm	0.4840 ppm
Concentration per Run 1	0.4776 ppm	5.3216 ppm	0.5014 ppm	0.4973 ppm	0.5087 ppm	0.5043 ppm	0.4827 ppm
Concentration per Run 2	0.4783 ppm	5.3076 ppm	0.4993 ppm	0.4991 ppm	0.5057 ppm	0.5036 ppm	0.4860 ppm
Concentration per Run 3	0.4774 ppm	5.2995 ppm	0.4897 ppm	0.5058 ppm	0.5043 ppm	0.5045 ppm	0.4833 ppm
Recovery Percentage 1	95.553 %	101.134 %	99.354 %	100.142 %	101.246 %	100.826 %	96.800 %
Concentration RSD	0.1 %	0.2 %	1.3 %	0.9 %	0.5 %	0.1 %	0.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4927 ppm	102.9398 %	102.4238 %	99.4583 %	100.5157 %	101.1055 %	98.4084 %
Concentration per Run 1	0.4982 ppm	102.2600 %	103.2606 %	98.6884 %	100.6132 %	101.8111 %	97.6060 %
Concentration per Run 2	0.4940 ppm	102.7142 %	102.1771 %	99.3196 %	99.9036 %	101.3895 %	98.3348 %
Concentration per Run 3	0.4859 ppm	103.8451 %	101.8338 %	100.3670 %	101.0304 %	100.1159 %	99.2842 %
Recovery Percentage 1	98.533 %						
Concentration RSD	1.3 %	0.8 %	0.7 %	0.9 %	0.6 %	0.9 %	0.9 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: CCB
 Analysis started at: 6/27/2025 4:50:14 PM
 Rack: 0
 Vial: 4
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0000 ppm	0.0025 ppm	-0.0002 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	-0.0009 ppm
Concentration per Run 1	0.0002 ppm	0.0037 ppm	-0.0008 ppm	-0.0009 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 2	0.0001 ppm	0.0022 ppm	0.0006 ppm	0.0003 ppm	0.0000 ppm	0.0000 ppm	-0.0010 ppm
Concentration per Run 3	-0.0003 ppm	0.0016 ppm	-0.0004 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0015 ppm
Recovery Percentage 1	-0.103 %	2.502 %	-3.552 %	-0.696 %	-0.127 %	0.479 %	-0.861 %
Concentration RSD	3,334.3 %	43.4 %	399.7 %	291.6 %	133.1 %	75.7 %	84.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0001 ppm	0.0003 ppm	0.0013 ppm	0.0003 ppm	0.0004 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0003 ppm	0.0016 ppm	0.0072 ppm	0.0004 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	0.0001 ppm	0.0004 ppm	0.0017 ppm	-0.0055 ppm	0.0011 ppm
Concentration per Run 3	0.0000 ppm	-0.0002 ppm	-0.0001 ppm	0.0001 ppm	0.0006 ppm	-0.0008 ppm	-0.0002 ppm
Recovery Percentage 1	0.462 %	-0.580 %	1.063 %	2.766 %	2.617 %	0.011 %	8.311 %
Concentration RSD	206.5 %	101.6 %	228.4 %	57.0 %	45.2 %	2,261.6 %	157.2 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.0008 ppm	0.0001 ppm	0.0026 ppm	0.0017 ppm	0.0001 ppm	0.0002 ppm	0.0012 ppm
Concentration per Run 1	0.0007 ppm	0.0001 ppm	0.0029 ppm	0.0050 ppm	0.0001 ppm	0.0002 ppm	0.0018 ppm
Concentration per Run 2	0.0002 ppm	0.0000 ppm	0.0029 ppm	-0.0014 ppm	0.0004 ppm	0.0004 ppm	0.0013 ppm
Concentration per Run 3	0.0015 ppm	0.0003 ppm	0.0021 ppm	0.0013 ppm	-0.0002 ppm	0.0000 ppm	0.0005 ppm
Recovery Percentage 1	0.817 %	1.005 %	5.267 %	0.083 %	0.296 %	1.813 %	2.401 %
Concentration RSD	82.3 %	137.2 %	18.6 %	192.8 %	416.2 %	94.3 %	55.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0010 ppm	0.0022 ppm	-0.0004 ppm	0.0000 ppm	0.0003 ppm	-0.0003 ppm	0.0000 ppm
Concentration per Run 1	0.0007 ppm	0.0015 ppm	-0.0004 ppm	0.0000 ppm	0.0004 ppm	0.0003 ppm	0.0001 ppm
Concentration per Run 2	0.0013 ppm	0.0022 ppm	0.0001 ppm	0.0000 ppm	0.0002 ppm	-0.0009 ppm	0.0001 ppm
Concentration per Run 3	0.0011 ppm	0.0030 ppm	-0.0009 ppm	0.0001 ppm	0.0004 ppm	-0.0004 ppm	-0.0003 ppm
Recovery Percentage 1	10.251 %	0.449 %	-0.806 %	0.268 %	3.154 %	-1.603 %	-0.417 %
Concentration RSD	26.7 %	34.0 %	120.0 %	247.6 %	39.1 %	179.1 %	602.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0008 ppm	101.4399 %	101.4059 %	99.8671 %	102.1760 %	101.9223 %	100.0895 %
Concentration per Run 1	-0.0008 ppm	101.3019 %	101.5942 %	99.9916 %	102.5750 %	102.0394 %	100.0945 %
Concentration per Run 2	-0.0008 ppm	101.7958 %	100.8946 %	100.3705 %	101.5964 %	101.0114 %	100.5053 %
Concentration per Run 3	-0.0007 ppm	101.2219 %	101.7288 %	99.2392 %	102.3565 %	102.7159 %	99.6685 %
Recovery Percentage 1	-15.075 %						
Concentration RSD	1.6 %	0.3 %	0.4 %	0.6 %	0.5 %	0.8 %	0.4 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2536262-01 WG2079154
 Analysis started at: 6/27/2025 5:11:00 PM
 Rack: 2
 Vial: 6
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0001 ppm	0.0989 ppm	0.0019 ppm	0.0012 ppm	0.0051 ppm	0.0001 ppm	0.7133 ppm
Concentration per Run 1	0.0000 ppm	0.0953 ppm	0.0025 ppm	0.0010 ppm	0.0052 ppm	0.0001 ppm	0.7112 ppm
Concentration per Run 2	0.0002 ppm	0.1006 ppm	0.0015 ppm	0.0007 ppm	0.0052 ppm	0.0001 ppm	0.7139 ppm
Concentration per Run 3	0.0001 ppm	0.1007 ppm	0.0019 ppm	0.0019 ppm	0.0051 ppm	0.0001 ppm	0.7147 ppm
Concentration RSD	93.6 %	3.2 %	25.8 %	51.8 %	1.2 %	6.1 %	0.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0001 ppm	0.0092 ppm	0.0003 ppm	0.0004 ppm	0.9826 ppm	0.5776 ppm	0.0006 ppm
Concentration per Run 1	0.0001 ppm	0.0094 ppm	0.0004 ppm	0.0005 ppm	0.9766 ppm	0.5926 ppm	0.0009 ppm
Concentration per Run 2	0.0000 ppm	0.0093 ppm	0.0002 ppm	0.0004 ppm	0.9867 ppm	0.5802 ppm	0.0003 ppm
Concentration per Run 3	0.0001 ppm	0.0089 ppm	0.0004 ppm	0.0004 ppm	0.9844 ppm	0.5599 ppm	0.0005 ppm
Concentration RSD	92.4 %	2.9 %	36.7 %	11.8 %	0.5 %	2.9 %	62.6 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.6439 ppm	0.8937 ppm	0.0005 ppm	2.8451 ppm	0.0088 ppm	0.0003 ppm	0.0008 ppm
Concentration per Run 1	0.6423 ppm	0.8906 ppm	0.0007 ppm	2.8432 ppm	0.0089 ppm	0.0001 ppm	0.0008 ppm
Concentration per Run 2	0.6454 ppm	0.8971 ppm	0.0004 ppm	2.8715 ppm	0.0083 ppm	0.0011 ppm	0.0018 ppm
Concentration per Run 3	0.6441 ppm	0.8933 ppm	0.0002 ppm	2.8205 ppm	0.0091 ppm	-0.0002 ppm	-0.0002 ppm
Concentration RSD	0.2 %	0.4 %	54.3 %	0.9 %	5.0 %	193.9 %	127.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0008 ppm	5.0292 ppm	-0.0009 ppm	0.0093 ppm	0.0002 ppm	-0.0004 ppm	0.0000 ppm
Concentration per Run 1	-0.0009 ppm	5.0261 ppm	-0.0001 ppm	0.0094 ppm	0.0002 ppm	-0.0004 ppm	0.0002 ppm
Concentration per Run 2	0.0020 ppm	5.0280 ppm	-0.0013 ppm	0.0093 ppm	0.0000 ppm	0.0002 ppm	0.0000 ppm
Concentration per Run 3	0.0014 ppm	5.0335 ppm	-0.0014 ppm	0.0093 ppm	0.0002 ppm	-0.0009 ppm	-0.0001 ppm
Concentration RSD	185.6 %	0.1 %	79.1 %	0.5 %	78.6 %	158.1 %	2,580.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0009 ppm	104.1280 %	104.2854 %	103.2764 %	102.6167 %	103.3942 %	100.7391 %
Concentration per Run 1	0.0009 ppm	104.4264 %	104.3904 %	102.8049 %	102.3714 %	103.5040 %	100.2468 %
Concentration per Run 2	0.0008 ppm	103.3602 %	104.4439 %	103.6851 %	101.5577 %	103.4999 %	100.8721 %
Concentration per Run 3	0.0009 ppm	104.5973 %	104.0217 %	103.3392 %	103.9209 %	103.1785 %	101.0984 %
Concentration RSD	11.3 %	0.6 %	0.2 %	0.4 %	1.2 %	0.2 %	0.4 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2536262-02 WG2079154
 Analysis started at: 6/27/2025 5:14:26 PM
 Rack: 2
 Vial: 7
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0000 ppm	0.0056 ppm	-0.0004 ppm	0.0209 ppm	0.0284 ppm	0.0000 ppm	7.9273 ppm
Concentration per Run 1	0.0002 ppm	-0.0017 ppm	0.0006 ppm	0.0216 ppm	0.0286 ppm	0.0000 ppm	7.9324 ppm
Concentration per Run 2	0.0000 ppm	0.0092 ppm	-0.0019 ppm	0.0208 ppm	0.0282 ppm	0.0000 ppm	7.9391 ppm
Concentration per Run 3	0.0000 ppm	0.0091 ppm	0.0000 ppm	0.0203 ppm	0.0284 ppm	0.0000 ppm	7.9103 ppm
Concentration RSD	252.4 %	113.2 %	285.2 %	3.3 %	0.7 %	110.3 %	0.2 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0012 ppm	0.0062 ppm	3.0173 ppm	0.0015 ppm
Concentration per Run 1	0.0001 ppm	-0.0002 ppm	0.0005 ppm	0.0010 ppm	0.0062 ppm	3.0535 ppm	0.0017 ppm
Concentration per Run 2	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0015 ppm	0.0055 ppm	3.0207 ppm	0.0014 ppm
Concentration per Run 3	0.0000 ppm	0.0004 ppm	0.0002 ppm	0.0013 ppm	0.0070 ppm	2.9776 ppm	0.0014 ppm
Concentration RSD	219.4 %	549.6 %	41.1 %	20.9 %	11.8 %	1.3 %	11.8 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.8385 ppm	0.0046 ppm	0.0006 ppm	209.6561 ppm	0.0008 ppm	0.0002 ppm	0.0009 ppm
Concentration per Run 1	0.8448 ppm	0.0046 ppm	0.0006 ppm	210.9336 ppm	0.0012 ppm	-0.0001 ppm	0.0004 ppm
Concentration per Run 2	0.8391 ppm	0.0048 ppm	0.0005 ppm	209.8546 ppm	0.0002 ppm	0.0003 ppm	0.0012 ppm
Concentration per Run 3	0.8315 ppm	0.0044 ppm	0.0006 ppm	208.1801 ppm	0.0010 ppm	0.0002 ppm	0.0010 ppm
Concentration RSD	0.8 %	5.3 %	13.4 %	0.7 %	63.0 %	122.9 %	45.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0009 ppm	5.9192 ppm	-0.0010 ppm	0.0763 ppm	0.0002 ppm	0.0004 ppm	0.0000 ppm
Concentration per Run 1	-0.0014 ppm	5.9335 ppm	-0.0015 ppm	0.0768 ppm	0.0002 ppm	-0.0003 ppm	0.0000 ppm
Concentration per Run 2	-0.0006 ppm	5.9155 ppm	-0.0004 ppm	0.0759 ppm	0.0002 ppm	0.0006 ppm	0.0002 ppm
Concentration per Run 3	-0.0007 ppm	5.9086 ppm	-0.0011 ppm	0.0762 ppm	0.0001 ppm	0.0009 ppm	-0.0001 ppm
Concentration RSD	47.5 %	0.2 %	58.8 %	0.6 %	57.2 %	160.2 %	397.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0015 ppm	96.0510 %	99.1236 %	89.1301 %	93.2832 %	97.3837 %	92.3461 %
Concentration per Run 1	0.0013 ppm	95.9027 %	99.0996 %	89.2102 %	93.7370 %	97.7351 %	92.4781 %
Concentration per Run 2	0.0015 ppm	96.5028 %	99.3105 %	88.9231 %	93.0218 %	97.5103 %	92.4151 %
Concentration per Run 3	0.0018 ppm	95.7476 %	98.9607 %	89.2569 %	93.0908 %	96.9058 %	92.1450 %
Concentration RSD	15.0 %	0.4 %	0.2 %	0.2 %	0.4 %	0.4 %	0.2 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2536262-03 WG2079154
 Analysis started at: 6/27/2025 5:17:39 PM
 Rack: 2
 Vial: 8
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0000 ppm	0.0020 ppm	-0.0005 ppm	0.0244 ppm	0.0267 ppm	0.0000 ppm	16.2911 ppm
Concentration per Run 1	0.0000 ppm	-0.0016 ppm	-0.0003 ppm	0.0240 ppm	0.0265 ppm	0.0000 ppm	16.3449 ppm
Concentration per Run 2	0.0000 ppm	0.0044 ppm	0.0011 ppm	0.0236 ppm	0.0268 ppm	0.0000 ppm	16.3089 ppm
Concentration per Run 3	-0.0001 ppm	0.0031 ppm	-0.0023 ppm	0.0256 ppm	0.0268 ppm	0.0000 ppm	16.2196 ppm
Concentration RSD	242.4 %	162.5 %	341.8 %	4.2 %	0.7 %	456.5 %	0.4 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0002 ppm	0.0046 ppm	0.0000 ppm	0.0012 ppm	0.0122 ppm	3.6992 ppm	0.0027 ppm
Concentration per Run 1	0.0002 ppm	0.0049 ppm	0.0002 ppm	0.0013 ppm	0.0128 ppm	3.6554 ppm	0.0025 ppm
Concentration per Run 2	0.0002 ppm	0.0042 ppm	-0.0001 ppm	0.0012 ppm	0.0122 ppm	3.7242 ppm	0.0030 ppm
Concentration per Run 3	0.0002 ppm	0.0047 ppm	-0.0002 ppm	0.0012 ppm	0.0116 ppm	3.7180 ppm	0.0024 ppm
Concentration RSD	7.8 %	7.7 %	516.6 %	4.9 %	4.8 %	1.0 %	12.2 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	3.1181 ppm	0.4594 ppm	0.0001 ppm	94.6550 ppm	0.0229 ppm	-0.0005 ppm	0.0004 ppm
Concentration per Run 1	3.1225 ppm	0.4598 ppm	0.0002 ppm	93.9852 ppm	0.0227 ppm	0.0002 ppm	0.0012 ppm
Concentration per Run 2	3.1318 ppm	0.4597 ppm	-0.0002 ppm	95.1176 ppm	0.0228 ppm	-0.0006 ppm	-0.0007 ppm
Concentration per Run 3	3.1001 ppm	0.4586 ppm	0.0002 ppm	94.8622 ppm	0.0231 ppm	-0.0010 ppm	0.0008 ppm
Concentration RSD	0.5 %	0.1 %	293.5 %	0.6 %	1.0 %	136.0 %	230.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0004 ppm	6.9332 ppm	-0.0005 ppm	0.1198 ppm	0.0001 ppm	-0.0006 ppm	-0.0001 ppm
Concentration per Run 1	0.0018 ppm	6.9807 ppm	-0.0007 ppm	0.1190 ppm	0.0000 ppm	-0.0003 ppm	-0.0001 ppm
Concentration per Run 2	0.0002 ppm	6.9259 ppm	-0.0006 ppm	0.1203 ppm	0.0001 ppm	-0.0001 ppm	-0.0001 ppm
Concentration per Run 3	-0.0007 ppm	6.8929 ppm	-0.0002 ppm	0.1202 ppm	0.0002 ppm	-0.0013 ppm	-0.0001 ppm
Concentration RSD	284.3 %	0.6 %	55.6 %	0.6 %	96.7 %	107.7 %	25.0 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0006 ppm	98.4914 %	101.5236 %	93.0741 %	96.6296 %	99.5772 %	94.4064 %
Concentration per Run 1	0.0005 ppm	99.0347 %	101.7232 %	93.3231 %	97.2655 %	99.8494 %	94.5663 %
Concentration per Run 2	0.0005 ppm	97.9152 %	101.3224 %	92.2782 %	96.1044 %	99.3198 %	93.8924 %
Concentration per Run 3	0.0007 ppm	98.5244 %	101.5251 %	93.6209 %	96.5188 %	99.5624 %	94.7603 %
Concentration RSD	18.0 %	0.6 %	0.2 %	0.8 %	0.6 %	0.3 %	0.5 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2536262-04 WG2079154
 Analysis started at: 6/27/2025 5:20:52 PM
 Rack: 2
 Vial: 9
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0004 ppm	0.0044 ppm	0.2531 ppm	0.0522 ppm	0.1058 ppm	0.0000 ppm	68.7708 ppm
Concentration per Run 1	-0.0005 ppm	0.0020 ppm	0.2510 ppm	0.0512 ppm	0.1059 ppm	0.0000 ppm	68.5377 ppm
Concentration per Run 2	-0.0003 ppm	0.0082 ppm	0.2537 ppm	0.0518 ppm	0.1058 ppm	0.0000 ppm	68.7747 ppm
Concentration per Run 3	-0.0003 ppm	0.0029 ppm	0.2546 ppm	0.0536 ppm	0.1059 ppm	0.0000 ppm	69.0000 ppm
Concentration RSD	28.1 %	75.4 %	0.7 %	2.4 %	0.1 %	154.6 %	0.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	0.0018 ppm	-0.0007 ppm	0.0002 ppm	41.8194 ppm	6.8510 ppm	0.0032 ppm
Concentration per Run 1	0.0000 ppm	0.0016 ppm	-0.0005 ppm	0.0001 ppm	41.5944 ppm	6.8595 ppm	0.0039 ppm
Concentration per Run 2	0.0001 ppm	0.0017 ppm	-0.0007 ppm	0.0003 ppm	41.6977 ppm	6.8573 ppm	0.0028 ppm
Concentration per Run 3	-0.0001 ppm	0.0019 ppm	-0.0008 ppm	0.0002 ppm	42.1661 ppm	6.8362 ppm	0.0030 ppm
Concentration RSD	297.9 %	9.5 %	19.0 %	30.1 %	0.7 %	0.2 %	16.5 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	9.3652 ppm	11.3553 ppm	-0.0008 ppm	56.2223 ppm	0.0028 ppm	-0.0010 ppm	-0.0017 ppm
Concentration per Run 1	9.4187 ppm	11.3072 ppm	-0.0005 ppm	56.3176 ppm	0.0028 ppm	-0.0015 ppm	-0.0023 ppm
Concentration per Run 2	9.3144 ppm	11.3481 ppm	-0.0011 ppm	56.4701 ppm	0.0028 ppm	-0.0007 ppm	-0.0014 ppm
Concentration per Run 3	9.3626 ppm	11.4105 ppm	-0.0008 ppm	55.8792 ppm	0.0028 ppm	-0.0008 ppm	-0.0015 ppm
Concentration RSD	0.6 %	0.5 %	37.4 %	0.5 %	0.9 %	42.2 %	30.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0027 ppm	11.6820 ppm	-0.0007 ppm	0.3588 ppm	0.0002 ppm	-0.0078 ppm	-0.0008 ppm
Concentration per Run 1	-0.0026 ppm	11.7494 ppm	-0.0005 ppm	0.3586 ppm	0.0001 ppm	-0.0073 ppm	-0.0009 ppm
Concentration per Run 2	-0.0011 ppm	11.5865 ppm	-0.0017 ppm	0.3589 ppm	0.0003 ppm	-0.0076 ppm	-0.0008 ppm
Concentration per Run 3	-0.0045 ppm	11.7101 ppm	0.0000 ppm	0.3590 ppm	0.0003 ppm	-0.0085 ppm	-0.0008 ppm
Concentration RSD	60.6 %	0.7 %	126.6 %	0.0 %	67.2 %	7.6 %	9.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0005 ppm	98.2705 %	100.4243 %	90.3501 %	96.1832 %	98.6102 %	93.0458 %
Concentration per Run 1	0.0004 ppm	98.0687 %	100.4529 %	90.7095 %	96.4529 %	98.6588 %	93.3533 %
Concentration per Run 2	0.0004 ppm	97.9997 %	101.3188 %	90.5357 %	95.6074 %	99.7102 %	93.4372 %
Concentration per Run 3	0.0006 ppm	98.7432 %	99.5010 %	89.8049 %	96.4893 %	97.4617 %	92.3470 %
Concentration RSD	31.8 %	0.4 %	0.9 %	0.5 %	0.5 %	1.1 %	0.7 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2536262-05 WG2079154
 Analysis started at: 6/27/2025 5:25:32 PM
 Rack: 2
 Vial: 10
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0001 ppm	0.0267 ppm	0.0264 ppm	0.0415 ppm	0.0697 ppm	0.0000 ppm	41.3670 ppm
Concentration per Run 1	-0.0001 ppm	0.0272 ppm	0.0263 ppm	0.0418 ppm	0.0702 ppm	0.0000 ppm	41.4566 ppm
Concentration per Run 2	0.0003 ppm	0.0290 ppm	0.0273 ppm	0.0425 ppm	0.0696 ppm	0.0000 ppm	41.2468 ppm
Concentration per Run 3	0.0002 ppm	0.0239 ppm	0.0257 ppm	0.0403 ppm	0.0694 ppm	0.0000 ppm	41.3975 ppm
Concentration RSD	175.5 %	9.9 %	3.1 %	2.7 %	0.6 %	12.4 %	0.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0001 ppm	0.0012 ppm	0.0004 ppm	0.0053 ppm	0.6471 ppm	51.2453 ppm	0.0013 ppm
Concentration per Run 1	-0.0001 ppm	0.0013 ppm	0.0005 ppm	0.0052 ppm	0.6467 ppm	51.4307 ppm	0.0016 ppm
Concentration per Run 2	-0.0002 ppm	0.0013 ppm	0.0005 ppm	0.0054 ppm	0.6483 ppm	51.0901 ppm	0.0009 ppm
Concentration per Run 3	-0.0001 ppm	0.0009 ppm	0.0004 ppm	0.0054 ppm	0.6463 ppm	51.2150 ppm	0.0014 ppm
Concentration RSD	36.5 %	19.8 %	18.0 %	2.3 %	0.2 %	0.3 %	27.1 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	6.9891 ppm	1.2645 ppm	0.0005 ppm	91.2588 ppm	0.0088 ppm	0.0001 ppm	0.0012 ppm
Concentration per Run 1	7.0146 ppm	1.2671 ppm	0.0002 ppm	91.6572 ppm	0.0096 ppm	0.0006 ppm	0.0029 ppm
Concentration per Run 2	7.0047 ppm	1.2648 ppm	0.0008 ppm	90.9725 ppm	0.0086 ppm	-0.0002 ppm	0.0009 ppm
Concentration per Run 3	6.9481 ppm	1.2617 ppm	0.0004 ppm	91.1467 ppm	0.0081 ppm	-0.0002 ppm	-0.0001 ppm
Concentration RSD	0.5 %	0.2 %	59.0 %	0.4 %	8.5 %	469.1 %	124.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0003 ppm	7.9854 ppm	-0.0013 ppm	0.1641 ppm	0.0005 ppm	-0.0046 ppm	0.0003 ppm
Concentration per Run 1	0.0016 ppm	7.9955 ppm	-0.0018 ppm	0.1644 ppm	0.0005 ppm	-0.0041 ppm	0.0002 ppm
Concentration per Run 2	-0.0034 ppm	8.0400 ppm	-0.0015 ppm	0.1638 ppm	0.0005 ppm	-0.0042 ppm	0.0004 ppm
Concentration per Run 3	0.0008 ppm	7.9208 ppm	-0.0007 ppm	0.1640 ppm	0.0006 ppm	-0.0055 ppm	0.0001 ppm
Concentration RSD	803.6 %	0.8 %	44.3 %	0.2 %	16.3 %	18.0 %	61.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0099 ppm	97.5763 %	100.5891 %	91.1831 %	96.1873 %	99.4633 %	93.9665 %
Concentration per Run 1	0.0099 ppm	97.1616 %	100.4187 %	91.3355 %	95.9986 %	99.4199 %	93.9087 %
Concentration per Run 2	0.0102 ppm	97.1832 %	100.3366 %	91.2403 %	96.3046 %	98.9543 %	93.8462 %
Concentration per Run 3	0.0097 ppm	98.3843 %	101.0119 %	90.9737 %	96.2589 %	100.0157 %	94.1446 %
Concentration RSD	2.1 %	0.7 %	0.4 %	0.2 %	0.2 %	0.5 %	0.2 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2536262-06 WG2079154
 Analysis started at: 6/27/2025 5:28:52 PM
 Rack: 2
 Vial: 11
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0000 ppm	0.0207 ppm	-0.0003 ppm	0.0089 ppm	0.0159 ppm	0.0000 ppm	12.4996 ppm
Concentration per Run 1	-0.0001 ppm	0.0196 ppm	0.0004 ppm	0.0071 ppm	0.0158 ppm	0.0000 ppm	12.5102 ppm
Concentration per Run 2	0.0001 ppm	0.0232 ppm	-0.0002 ppm	0.0093 ppm	0.0158 ppm	0.0000 ppm	12.6091 ppm
Concentration per Run 3	0.0001 ppm	0.0194 ppm	-0.0010 ppm	0.0102 ppm	0.0159 ppm	0.0000 ppm	12.3795 ppm
Concentration RSD	256.0 %	10.1 %	264.5 %	18.2 %	0.5 %	107.5 %	0.9 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0009 ppm	0.0033 ppm	2.4778 ppm	0.0002 ppm
Concentration per Run 1	0.0000 ppm	0.0000 ppm	0.0005 ppm	0.0009 ppm	0.0034 ppm	2.4888 ppm	0.0000 ppm
Concentration per Run 2	0.0001 ppm	-0.0002 ppm	0.0003 ppm	0.0008 ppm	0.0033 ppm	2.4862 ppm	0.0004 ppm
Concentration per Run 3	0.0001 ppm	0.0005 ppm	0.0002 ppm	0.0011 ppm	0.0033 ppm	2.4585 ppm	0.0003 ppm
Concentration RSD	190.6 %	288.3 %	51.4 %	17.0 %	2.8 %	0.7 %	89.3 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	2.0518 ppm	0.0078 ppm	0.0001 ppm	48.4697 ppm	0.0013 ppm	-0.0002 ppm	0.0008 ppm
Concentration per Run 1	2.0576 ppm	0.0078 ppm	0.0004 ppm	48.5450 ppm	0.0015 ppm	0.0000 ppm	0.0017 ppm
Concentration per Run 2	2.0570 ppm	0.0079 ppm	0.0000 ppm	49.0054 ppm	0.0009 ppm	-0.0001 ppm	-0.0002 ppm
Concentration per Run 3	2.0408 ppm	0.0078 ppm	-0.0001 ppm	47.8588 ppm	0.0015 ppm	-0.0005 ppm	0.0008 ppm
Concentration RSD	0.5 %	0.8 %	246.4 %	1.2 %	28.1 %	153.2 %	126.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0007 ppm	5.4860 ppm	-0.0005 ppm	0.0870 ppm	0.0001 ppm	-0.0003 ppm	0.0002 ppm
Concentration per Run 1	-0.0002 ppm	5.4774 ppm	-0.0004 ppm	0.0869 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm
Concentration per Run 2	-0.0025 ppm	5.5251 ppm	-0.0004 ppm	0.0871 ppm	-0.0001 ppm	0.0002 ppm	0.0000 ppm
Concentration per Run 3	0.0006 ppm	5.4555 ppm	-0.0007 ppm	0.0871 ppm	0.0004 ppm	-0.0011 ppm	0.0000 ppm
Concentration RSD	227.0 %	0.6 %	37.7 %	0.1 %	237.6 %	207.2 %	129.6 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0001 ppm	100.9330 %	102.7568 %	96.5939 %	99.1958 %	100.8403 %	96.6336 %
Concentration per Run 1	-0.0001 ppm	100.9822 %	102.6066 %	96.4885 %	99.7987 %	100.6494 %	96.5525 %
Concentration per Run 2	-0.0001 ppm	100.3148 %	102.3630 %	96.9764 %	98.7931 %	101.0720 %	97.1096 %
Concentration per Run 3	-0.0002 ppm	101.5019 %	103.3009 %	96.3169 %	98.9957 %	100.7995 %	96.2387 %
Concentration RSD	69.7 %	0.6 %	0.5 %	0.4 %	0.5 %	0.2 %	0.5 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2536262-07 WG2079154
 Analysis started at: 6/27/2025 5:32:06 PM
 Rack: 2
 Vial: 12
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0002 ppm	0.3340 ppm	0.0015 ppm	0.0026 ppm	0.1286 ppm	0.0006 ppm	16.8154 ppm
Concentration per Run 1	0.0002 ppm	0.3319 ppm	-0.0003 ppm	0.0038 ppm	0.1288 ppm	0.0006 ppm	16.7979 ppm
Concentration per Run 2	0.0002 ppm	0.3353 ppm	0.0012 ppm	0.0017 ppm	0.1283 ppm	0.0007 ppm	16.7972 ppm
Concentration per Run 3	0.0002 ppm	0.3350 ppm	0.0035 ppm	0.0022 ppm	0.1286 ppm	0.0006 ppm	16.8510 ppm
Concentration RSD	15.7 %	0.6 %	128.0 %	43.8 %	0.2 %	4.7 %	0.2 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	0.0012 ppm	0.0005 ppm	0.0010 ppm	2.2813 ppm	2.7772 ppm	0.0008 ppm
Concentration per Run 1	0.0000 ppm	0.0015 ppm	0.0005 ppm	0.0010 ppm	2.2836 ppm	2.8092 ppm	0.0005 ppm
Concentration per Run 2	0.0000 ppm	0.0012 ppm	0.0006 ppm	0.0011 ppm	2.2758 ppm	2.7427 ppm	0.0010 ppm
Concentration per Run 3	0.0000 ppm	0.0009 ppm	0.0004 ppm	0.0008 ppm	2.2845 ppm	2.7798 ppm	0.0009 ppm
Concentration RSD	636.5 %	24.3 %	18.2 %	19.1 %	0.2 %	1.2 %	36.8 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	3.4987 ppm	0.2061 ppm	-0.0001 ppm	119.1452 ppm	0.0028 ppm	0.0004 ppm	0.0021 ppm
Concentration per Run 1	3.5216 ppm	0.2066 ppm	-0.0001 ppm	119.9479 ppm	0.0027 ppm	0.0001 ppm	0.0046 ppm
Concentration per Run 2	3.4919 ppm	0.2057 ppm	0.0001 ppm	118.6048 ppm	0.0028 ppm	0.0003 ppm	0.0006 ppm
Concentration per Run 3	3.4826 ppm	0.2061 ppm	-0.0001 ppm	118.8830 ppm	0.0030 ppm	0.0008 ppm	0.0011 ppm
Concentration RSD	0.6 %	0.2 %	192.7 %	0.6 %	6.2 %	91.1 %	103.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0002 ppm	4.4354 ppm	-0.0010 ppm	0.1774 ppm	0.0003 ppm	0.0004 ppm	0.0004 ppm
Concentration per Run 1	0.0012 ppm	4.4583 ppm	-0.0009 ppm	0.1768 ppm	0.0005 ppm	-0.0002 ppm	0.0005 ppm
Concentration per Run 2	-0.0005 ppm	4.4209 ppm	-0.0014 ppm	0.1774 ppm	0.0002 ppm	0.0006 ppm	0.0003 ppm
Concentration per Run 3	0.0000 ppm	4.4269 ppm	-0.0005 ppm	0.1779 ppm	0.0003 ppm	0.0009 ppm	0.0004 ppm
Concentration RSD	422.2 %	0.5 %	47.2 %	0.3 %	47.6 %	138.7 %	18.7 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0022 ppm	98.6572 %	101.4698 %	92.4010 %	97.2212 %	100.1974 %	94.9823 %
Concentration per Run 1	0.0023 ppm	98.2016 %	101.9194 %	92.8511 %	97.4549 %	101.0024 %	95.5666 %
Concentration per Run 2	0.0020 ppm	98.8049 %	100.6631 %	92.4987 %	97.1682 %	99.0759 %	95.1013 %
Concentration per Run 3	0.0022 ppm	98.9650 %	101.8267 %	91.8532 %	97.0406 %	100.5139 %	94.2788 %
Concentration RSD	6.3 %	0.4 %	0.7 %	0.5 %	0.2 %	1.0 %	0.7 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2536262-08 WG2079154
 Analysis started at: 6/27/2025 5:35:19 PM
 Rack: 2
 Vial: 13
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0001 ppm	0.0846 ppm	0.0073 ppm	0.0081 ppm	0.2186 ppm	0.0001 ppm	24.3313 ppm
Concentration per Run 1	0.0002 ppm	0.0851 ppm	0.0086 ppm	0.0077 ppm	0.2181 ppm	0.0001 ppm	24.3916 ppm
Concentration per Run 2	0.0000 ppm	0.0874 ppm	0.0073 ppm	0.0078 ppm	0.2191 ppm	0.0001 ppm	24.2480 ppm
Concentration per Run 3	0.0002 ppm	0.0811 ppm	0.0061 ppm	0.0088 ppm	0.2185 ppm	0.0001 ppm	24.3543 ppm
Concentration RSD	120.1 %	3.8 %	17.5 %	7.4 %	0.2 %	16.0 %	0.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0004 ppm	0.0014 ppm	0.0006 ppm	0.0012 ppm	0.7993 ppm	7.1028 ppm	0.0005 ppm
Concentration per Run 1	0.0003 ppm	0.0013 ppm	0.0008 ppm	0.0013 ppm	0.7977 ppm	7.0937 ppm	0.0008 ppm
Concentration per Run 2	0.0004 ppm	0.0016 ppm	0.0007 ppm	0.0011 ppm	0.7981 ppm	7.1328 ppm	0.0006 ppm
Concentration per Run 3	0.0004 ppm	0.0012 ppm	0.0004 ppm	0.0013 ppm	0.8020 ppm	7.0818 ppm	0.0003 ppm
Concentration RSD	14.4 %	14.5 %	36.0 %	10.5 %	0.3 %	0.4 %	48.0 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	4.0088 ppm	1.0647 ppm	0.0006 ppm	294.5078 ppm	0.0043 ppm	-0.0001 ppm	-0.0001 ppm
Concentration per Run 1	4.0158 ppm	1.0680 ppm	0.0005 ppm	293.8085 ppm	0.0042 ppm	-0.0003 ppm	0.0002 ppm
Concentration per Run 2	3.9958 ppm	1.0608 ppm	0.0007 ppm	295.9323 ppm	0.0045 ppm	-0.0005 ppm	0.0000 ppm
Concentration per Run 3	4.0147 ppm	1.0655 ppm	0.0007 ppm	293.7826 ppm	0.0042 ppm	0.0003 ppm	-0.0004 ppm
Concentration RSD	0.3 %	0.3 %	21.9 %	0.4 %	4.5 %	316.4 %	560.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0001 ppm	5.3661 ppm	-0.0015 ppm	0.1607 ppm	0.0004 ppm	-0.0009 ppm	0.0004 ppm
Concentration per Run 1	0.0004 ppm	5.3763 ppm	-0.0017 ppm	0.1597 ppm	0.0003 ppm	-0.0013 ppm	0.0001 ppm
Concentration per Run 2	-0.0004 ppm	5.3628 ppm	-0.0010 ppm	0.1619 ppm	0.0005 ppm	-0.0006 ppm	0.0007 ppm
Concentration per Run 3	-0.0002 ppm	5.3591 ppm	-0.0017 ppm	0.1606 ppm	0.0003 ppm	-0.0007 ppm	0.0005 ppm
Concentration RSD	507.2 %	0.2 %	26.7 %	0.7 %	30.8 %	44.6 %	71.0 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0000 ppm	94.5295 %	99.6876 %	86.1154 %	92.5422 %	97.9102 %	91.1082 %
Concentration per Run 1	0.0000 ppm	95.1858 %	99.0533 %	86.0429 %	92.8439 %	97.2209 %	91.0824 %
Concentration per Run 2	0.0000 ppm	93.8931 %	99.8720 %	85.8682 %	92.2680 %	98.1382 %	90.8704 %
Concentration per Run 3	-0.0001 ppm	94.5097 %	100.1374 %	86.4352 %	92.5147 %	98.3714 %	91.3717 %
Concentration RSD	259.5 %	0.7 %	0.6 %	0.3 %	0.3 %	0.6 %	0.3 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2536262-09 WG2079154
 Analysis started at: 6/27/2025 5:38:33 PM
 Rack: 2
 Vial: 14
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0001 ppm	0.0121 ppm	0.0004 ppm	0.0061 ppm	0.0043 ppm	0.0000 ppm	1.5029 ppm
Concentration per Run 1	0.0001 ppm	0.0156 ppm	0.0002 ppm	0.0058 ppm	0.0043 ppm	0.0000 ppm	1.5051 ppm
Concentration per Run 2	-0.0003 ppm	0.0094 ppm	0.0005 ppm	0.0057 ppm	0.0043 ppm	0.0000 ppm	1.5041 ppm
Concentration per Run 3	-0.0002 ppm	0.0112 ppm	0.0004 ppm	0.0069 ppm	0.0042 ppm	0.0000 ppm	1.4995 ppm
Concentration RSD	167.3 %	26.6 %	38.0 %	11.5 %	1.2 %	31.2 %	0.2 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0003 ppm	0.0009 ppm	0.0500 ppm	1.2017 ppm	0.0004 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0007 ppm	0.0009 ppm	0.0509 ppm	1.2110 ppm	-0.0001 ppm
Concentration per Run 2	0.0000 ppm	0.0001 ppm	0.0002 ppm	0.0010 ppm	0.0495 ppm	1.1969 ppm	0.0009 ppm
Concentration per Run 3	0.0001 ppm	0.0000 ppm	0.0002 ppm	0.0010 ppm	0.0497 ppm	1.1972 ppm	0.0004 ppm
Concentration RSD	91.0 %	590.2 %	85.9 %	8.2 %	1.5 %	0.7 %	139.4 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.4829 ppm	0.0224 ppm	0.0002 ppm	28.0571 ppm	0.0007 ppm	-0.0002 ppm	0.0004 ppm
Concentration per Run 1	0.4858 ppm	0.0227 ppm	0.0003 ppm	28.2882 ppm	0.0008 ppm	-0.0002 ppm	-0.0001 ppm
Concentration per Run 2	0.4807 ppm	0.0224 ppm	0.0000 ppm	28.1419 ppm	0.0005 ppm	-0.0002 ppm	-0.0005 ppm
Concentration per Run 3	0.4823 ppm	0.0222 ppm	0.0003 ppm	27.7412 ppm	0.0007 ppm	-0.0001 ppm	0.0019 ppm
Concentration RSD	0.5 %	1.1 %	91.4 %	1.0 %	28.3 %	45.2 %	289.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0005 ppm	0.0821 ppm	-0.0007 ppm	0.0077 ppm	0.0004 ppm	-0.0002 ppm	0.0000 ppm
Concentration per Run 1	-0.0013 ppm	0.0828 ppm	-0.0010 ppm	0.0076 ppm	0.0003 ppm	-0.0008 ppm	0.0001 ppm
Concentration per Run 2	-0.0003 ppm	0.0807 ppm	-0.0002 ppm	0.0077 ppm	0.0004 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 3	-0.0001 ppm	0.0827 ppm	-0.0010 ppm	0.0078 ppm	0.0004 ppm	0.0002 ppm	-0.0001 ppm
Concentration RSD	119.3 %	1.4 %	64.6 %	0.9 %	21.5 %	233.5 %	14,629.0 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0011 ppm	102.5845 %	103.5409 %	100.5324 %	100.6409 %	101.9016 %	98.6014 %
Concentration per Run 1	0.0010 ppm	102.5793 %	103.2410 %	100.6522 %	101.1789 %	101.6602 %	98.8785 %
Concentration per Run 2	0.0012 ppm	102.1247 %	103.7517 %	101.3070 %	100.3899 %	102.6901 %	98.9307 %
Concentration per Run 3	0.0012 ppm	103.0494 %	103.6300 %	99.6380 %	100.3537 %	101.3545 %	97.9949 %
Concentration RSD	10.4 %	0.5 %	0.3 %	0.8 %	0.5 %	0.7 %	0.5 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: I2535055-02 WG2081034
 Analysis started at: 6/27/2025 5:41:46 PM
 Rack: 2
 Vial: 18
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0003 ppm	49.6783 ppm	0.0193 ppm	0.0064 ppm	0.4013 ppm	0.0009 ppm	10.1692 ppm
Concentration per Run 1	0.0003 ppm	49.5958 ppm	0.0196 ppm	0.0057 ppm	0.4025 ppm	0.0009 ppm	10.1468 ppm
Concentration per Run 2	0.0005 ppm	49.6106 ppm	0.0202 ppm	0.0077 ppm	0.4006 ppm	0.0009 ppm	10.1863 ppm
Concentration per Run 3	0.0002 ppm	49.8284 ppm	0.0181 ppm	0.0058 ppm	0.4008 ppm	0.0009 ppm	10.1745 ppm
Concentration RSD	56.9 %	0.3 %	5.6 %	17.6 %	0.3 %	2.0 %	0.2 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0017 ppm	0.0066 ppm	0.1149 ppm	0.2514 ppm	58.2660 ppm	1.5583 ppm	0.0225 ppm
Concentration per Run 1	0.0017 ppm	0.0064 ppm	0.1147 ppm	0.2505 ppm	58.2628 ppm	1.5746 ppm	0.0225 ppm
Concentration per Run 2	0.0017 ppm	0.0066 ppm	0.1151 ppm	0.2510 ppm	58.0893 ppm	1.5535 ppm	0.0229 ppm
Concentration per Run 3	0.0018 ppm	0.0068 ppm	0.1148 ppm	0.2526 ppm	58.4459 ppm	1.5466 ppm	0.0220 ppm
Concentration RSD	3.6 %	3.2 %	0.2 %	0.4 %	0.3 %	0.9 %	2.0 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	3.3175 ppm	0.5637 ppm	0.0036 ppm	0.2893 ppm	0.0241 ppm	2.4373 ppm	0.0010 ppm
Concentration per Run 1	3.3157 ppm	0.5627 ppm	0.0035 ppm	0.2888 ppm	0.0248 ppm	2.4398 ppm	0.0008 ppm
Concentration per Run 2	3.3235 ppm	0.5647 ppm	0.0036 ppm	0.2887 ppm	0.0236 ppm	2.4358 ppm	0.0007 ppm
Concentration per Run 3	3.3134 ppm	0.5637 ppm	0.0038 ppm	0.2905 ppm	0.0238 ppm	2.4363 ppm	0.0014 ppm
Concentration RSD	0.2 %	0.2 %	3.9 %	0.4 %	2.5 %	0.1 %	38.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0008 ppm	9.7894 ppm	0.0119 ppm	0.0627 ppm	0.6413 ppm	-0.0004 ppm	0.1181 ppm
Concentration per Run 1	-0.0001 ppm	9.7452 ppm	0.0119 ppm	0.0630 ppm	0.6399 ppm	-0.0008 ppm	0.1177 ppm
Concentration per Run 2	0.0011 ppm	9.8586 ppm	0.0125 ppm	0.0624 ppm	0.6430 ppm	0.0003 ppm	0.1178 ppm
Concentration per Run 3	0.0015 ppm	9.7643 ppm	0.0114 ppm	0.0626 ppm	0.6410 ppm	-0.0008 ppm	0.1189 ppm
Concentration RSD	99.9 %	0.6 %	4.8 %	0.5 %	0.2 %	148.9 %	0.5 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.7501 ppm	101.1076 %	101.8067 %	94.0754 %	102.2634 %	103.3613 %	99.6546 %
Concentration per Run 1	0.7456 ppm	101.0009 %	101.8378 %	94.6378 %	101.9640 %	103.5350 %	100.2487 %
Concentration per Run 2	0.7575 ppm	100.9897 %	101.5208 %	93.7963 %	102.6193 %	103.2652 %	99.4757 %
Concentration per Run 3	0.7471 ppm	101.3322 %	102.0614 %	93.7922 %	102.2069 %	103.2838 %	99.2395 %
Concentration RSD	0.9 %	0.2 %	0.3 %	0.5 %	0.3 %	0.1 %	0.5 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: CCV
Analysis started at: 6/27/2025 5:44:59 PM
Rack: 0
Vial: 3
Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.5235 ppm	0.4874 ppm	0.4661 ppm	0.4858 ppm	0.4965 ppm	0.4950 ppm	0.4772 ppm
Concentration per Run 1	0.5259 ppm	0.4897 ppm	0.4641 ppm	0.4839 ppm	0.4945 ppm	0.4953 ppm	0.4765 ppm
Concentration per Run 2	0.5252 ppm	0.4852 ppm	0.4673 ppm	0.4905 ppm	0.4982 ppm	0.4941 ppm	0.4755 ppm
Concentration per Run 3	0.5193 ppm	0.4873 ppm	0.4668 ppm	0.4830 ppm	0.4968 ppm	0.4955 ppm	0.4795 ppm
Recovery Percentage 1	104.691 %	97.485 %	93.217 %	97.165 %	99.302 %	98.992 %	95.431 %
Concentration RSD	0.7 %	0.5 %	0.4 %	0.8 %	0.4 %	0.1 %	0.4 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.4624 ppm	0.4914 ppm	0.5060 ppm	0.4947 ppm	0.4992 ppm	5.1960 ppm	0.5239 ppm
Concentration per Run 1	0.4644 ppm	0.4913 ppm	0.5083 ppm	0.4935 ppm	0.5003 ppm	5.2099 ppm	0.5292 ppm
Concentration per Run 2	0.4592 ppm	0.4913 ppm	0.5080 ppm	0.4969 ppm	0.4975 ppm	5.1985 ppm	0.5200 ppm
Concentration per Run 3	0.4635 ppm	0.4918 ppm	0.5018 ppm	0.4939 ppm	0.4997 ppm	5.1795 ppm	0.5224 ppm
Recovery Percentage 1	92.477 %	98.289 %	101.207 %	98.949 %	99.833 %	103.919 %	104.777 %
Concentration RSD	0.6 %	0.1 %	0.7 %	0.4 %	0.3 %	0.3 %	0.9 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.5031 ppm	0.4933 ppm	0.4878 ppm	10.3243 ppm	0.5070 ppm	0.4961 ppm	0.4825 ppm
Concentration per Run 1	0.5079 ppm	0.4937 ppm	0.4890 ppm	10.3484 ppm	0.5090 ppm	0.4951 ppm	0.4785 ppm
Concentration per Run 2	0.5021 ppm	0.4913 ppm	0.4882 ppm	10.3739 ppm	0.5098 ppm	0.4978 ppm	0.4833 ppm
Concentration per Run 3	0.4994 ppm	0.4947 ppm	0.4861 ppm	10.2506 ppm	0.5023 ppm	0.4954 ppm	0.4858 ppm
Recovery Percentage 1	100.626 %	98.652 %	97.551 %	103.243 %	101.404 %	99.215 %	96.509 %
Concentration RSD	0.9 %	0.4 %	0.3 %	0.6 %	0.8 %	0.3 %	0.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.4775 ppm	5.3109 ppm	0.4953 ppm	0.5000 ppm	0.5056 ppm	0.5037 ppm	0.4834 ppm
Concentration per Run 1	0.4755 ppm	5.3210 ppm	0.4961 ppm	0.5012 ppm	0.5082 ppm	0.5047 ppm	0.4826 ppm
Concentration per Run 2	0.4771 ppm	5.3039 ppm	0.4976 ppm	0.4992 ppm	0.5071 ppm	0.5015 ppm	0.4834 ppm
Concentration per Run 3	0.4799 ppm	5.3078 ppm	0.4921 ppm	0.4996 ppm	0.5014 ppm	0.5050 ppm	0.4841 ppm
Recovery Percentage 1	95.507 %	101.160 %	99.056 %	99.998 %	101.111 %	100.749 %	96.676 %
Concentration RSD	0.5 %	0.2 %	0.6 %	0.2 %	0.7 %	0.4 %	0.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4911 ppm	102.0112 %	102.0312 %	99.0047 %	100.3239 %	100.7431 %	97.9831 %
Concentration per Run 1	0.4933 ppm	101.8910 %	101.7589 %	99.6323 %	100.6892 %	100.9991 %	98.3553 %
Concentration per Run 2	0.4923 ppm	101.4977 %	102.5870 %	98.9075 %	99.9872 %	100.8652 %	98.0209 %
Concentration per Run 3	0.4876 ppm	102.6449 %	101.7478 %	98.4744 %	100.2951 %	100.3650 %	97.5732 %
Recovery Percentage 1	98.214 %						
Concentration RSD	0.6 %	0.6 %	0.5 %	0.6 %	0.4 %	0.3 %	0.4 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: CCB
 Analysis started at: 6/27/2025 5:48:12 PM
 Rack: 0
 Vial: 4
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0002 ppm	0.0087 ppm	-0.0003 ppm	-0.0007 ppm	0.0000 ppm	0.0000 ppm	-0.0006 ppm
Concentration per Run 1	0.0003 ppm	0.0062 ppm	-0.0002 ppm	-0.0010 ppm	0.0000 ppm	0.0000 ppm	-0.0019 ppm
Concentration per Run 2	0.0003 ppm	0.0089 ppm	-0.0010 ppm	-0.0007 ppm	-0.0001 ppm	0.0000 ppm	0.0016 ppm
Concentration per Run 3	0.0001 ppm	0.0111 ppm	0.0005 ppm	-0.0003 ppm	0.0000 ppm	0.0000 ppm	-0.0016 ppm
Recovery Percentage 1	3.340 %	8.709 %	-5.135 %	-2.207 %	-0.185 %	0.356 %	-0.628 %
Concentration RSD	50.6 %	28.5 %	283.0 %	56.6 %	215.3 %	149.4 %	315.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0001 ppm	-0.0001 ppm	0.0003 ppm	0.0002 ppm	0.0021 ppm	0.0083 ppm	-0.0003 ppm
Concentration per Run 1	0.0001 ppm	-0.0002 ppm	0.0005 ppm	0.0004 ppm	0.0021 ppm	0.0028 ppm	-0.0002 ppm
Concentration per Run 2	0.0001 ppm	-0.0003 ppm	0.0002 ppm	0.0002 ppm	0.0020 ppm	0.0029 ppm	-0.0008 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0022 ppm	0.0190 ppm	0.0001 ppm
Recovery Percentage 1	1.375 %	-0.710 %	2.659 %	2.356 %	4.228 %	0.331 %	-5.626 %
Concentration RSD	112.5 %	160.3 %	77.4 %	57.6 %	5.8 %	112.9 %	170.9 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	-0.0005 ppm	0.0001 ppm	0.0021 ppm	0.0049 ppm	0.0001 ppm	-0.0003 ppm	0.0004 ppm
Concentration per Run 1	0.0009 ppm	0.0000 ppm	0.0023 ppm	0.0068 ppm	0.0002 ppm	-0.0004 ppm	-0.0004 ppm
Concentration per Run 2	-0.0004 ppm	0.0002 ppm	0.0020 ppm	0.0022 ppm	0.0001 ppm	-0.0005 ppm	0.0002 ppm
Concentration per Run 3	-0.0019 ppm	0.0001 ppm	0.0021 ppm	0.0056 ppm	0.0000 ppm	0.0001 ppm	0.0014 ppm
Recovery Percentage 1	-0.476 %	0.881 %	4.267 %	0.244 %	0.388 %	-2.841 %	0.810 %
Concentration RSD	298.3 %	85.2 %	8.4 %	49.4 %	125.8 %	114.2 %	223.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0001 ppm	0.0031 ppm	-0.0002 ppm	0.0000 ppm	0.0005 ppm	-0.0001 ppm	0.0000 ppm
Concentration per Run 1	0.0003 ppm	0.0031 ppm	-0.0005 ppm	0.0000 ppm	0.0005 ppm	0.0003 ppm	0.0000 ppm
Concentration per Run 2	0.0004 ppm	0.0032 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm	0.0001 ppm	-0.0001 ppm
Concentration per Run 3	-0.0003 ppm	0.0031 ppm	-0.0002 ppm	0.0000 ppm	0.0004 ppm	-0.0007 ppm	0.0002 ppm
Recovery Percentage 1	1.438 %	0.629 %	-0.494 %	0.180 %	4.501 %	-0.490 %	0.369 %
Concentration RSD	253.1 %	2.6 %	108.6 %	79.6 %	6.0 %	557.1 %	373.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0008 ppm	101.2879 %	100.8111 %	99.3810 %	101.5644 %	100.8766 %	99.2657 %
Concentration per Run 1	-0.0007 ppm	102.2448 %	100.2426 %	99.5236 %	102.7591 %	100.5422 %	99.3162 %
Concentration per Run 2	-0.0007 ppm	100.3502 %	100.2346 %	99.7902 %	100.0963 %	100.3590 %	99.8022 %
Concentration per Run 3	-0.0008 ppm	101.2688 %	101.9559 %	98.8292 %	101.8378 %	101.7286 %	98.6788 %
Recovery Percentage 1	-15.403 %						
Concentration RSD	7.7 %	0.9 %	1.0 %	0.5 %	1.3 %	0.7 %	0.6 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2536262-10 WG2079154
 Analysis started at: 6/27/2025 6:20:51 PM
 Rack: 2
 Vial: 15
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0003 ppm	0.0232 ppm	0.0019 ppm	0.0095 ppm	0.0167 ppm	0.0000 ppm	12.5764 ppm
Concentration per Run 1	0.0003 ppm	0.0221 ppm	0.0019 ppm	0.0088 ppm	0.0166 ppm	0.0000 ppm	12.4926 ppm
Concentration per Run 2	0.0003 ppm	0.0234 ppm	0.0019 ppm	0.0092 ppm	0.0167 ppm	0.0000 ppm	12.6704 ppm
Concentration per Run 3	0.0002 ppm	0.0242 ppm	0.0019 ppm	0.0105 ppm	0.0168 ppm	0.0000 ppm	12.5663 ppm
Concentration RSD	31.8 %	4.7 %	0.9 %	9.6 %	0.4 %	32.5 %	0.7 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	0.0009 ppm	0.0004 ppm	0.0010 ppm	0.3057 ppm	2.1897 ppm	0.0010 ppm
Concentration per Run 1	0.0000 ppm	0.0005 ppm	0.0004 ppm	0.0008 ppm	0.3003 ppm	2.1951 ppm	0.0015 ppm
Concentration per Run 2	-0.0001 ppm	0.0011 ppm	0.0005 ppm	0.0011 ppm	0.3090 ppm	2.1838 ppm	0.0006 ppm
Concentration per Run 3	0.0000 ppm	0.0010 ppm	0.0004 ppm	0.0010 ppm	0.3078 ppm	2.1903 ppm	0.0009 ppm
Concentration RSD	154.9 %	35.7 %	14.8 %	15.8 %	1.5 %	0.3 %	44.8 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	2.2926 ppm	0.2149 ppm	0.0004 ppm	49.3448 ppm	0.0023 ppm	0.0001 ppm	0.0006 ppm
Concentration per Run 1	2.3016 ppm	0.2133 ppm	0.0005 ppm	49.3194 ppm	0.0026 ppm	0.0004 ppm	0.0011 ppm
Concentration per Run 2	2.2913 ppm	0.2167 ppm	0.0005 ppm	49.1220 ppm	0.0022 ppm	-0.0002 ppm	0.0023 ppm
Concentration per Run 3	2.2850 ppm	0.2147 ppm	0.0001 ppm	49.5930 ppm	0.0021 ppm	0.0000 ppm	-0.0017 ppm
Concentration RSD	0.4 %	0.8 %	68.9 %	0.5 %	11.2 %	318.7 %	369.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0003 ppm	2.2498 ppm	-0.0012 ppm	0.0849 ppm	0.0004 ppm	-0.0002 ppm	0.0000 ppm
Concentration per Run 1	-0.0002 ppm	2.2488 ppm	-0.0014 ppm	0.0845 ppm	0.0005 ppm	-0.0014 ppm	0.0001 ppm
Concentration per Run 2	0.0028 ppm	2.2531 ppm	-0.0010 ppm	0.0852 ppm	0.0003 ppm	0.0010 ppm	-0.0001 ppm
Concentration per Run 3	-0.0035 ppm	2.2476 ppm	-0.0012 ppm	0.0851 ppm	0.0004 ppm	-0.0001 ppm	0.0000 ppm
Concentration RSD	1,046.2 %	0.1 %	18.0 %	0.4 %	15.0 %	704.9 %	304.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0016 ppm	102.6088 %	102.1608 %	99.4436 %	100.4698 %	100.6448 %	98.3592 %
Concentration per Run 1	0.0016 ppm	102.9552 %	102.9875 %	99.1047 %	101.5005 %	101.2473 %	98.4199 %
Concentration per Run 2	0.0016 ppm	102.8544 %	101.7553 %	99.2980 %	100.5575 %	100.3862 %	98.4329 %
Concentration per Run 3	0.0017 ppm	102.0167 %	101.7396 %	99.9281 %	99.3515 %	100.3010 %	98.2249 %
Concentration RSD	3.2 %	0.5 %	0.7 %	0.4 %	1.1 %	0.5 %	0.1 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2536262-11 WG2079154
 Analysis started at: 6/27/2025 6:24:18 PM
 Rack: 2
 Vial: 16
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0001 ppm	0.0199 ppm	0.0095 ppm	0.0158 ppm	0.0294 ppm	0.0000 ppm	19.8613 ppm
Concentration per Run 1	0.0001 ppm	0.0211 ppm	0.0091 ppm	0.0164 ppm	0.0296 ppm	0.0000 ppm	19.9254 ppm
Concentration per Run 2	0.0002 ppm	0.0198 ppm	0.0093 ppm	0.0159 ppm	0.0294 ppm	0.0000 ppm	19.8137 ppm
Concentration per Run 3	-0.0001 ppm	0.0189 ppm	0.0102 ppm	0.0150 ppm	0.0292 ppm	0.0000 ppm	19.8449 ppm
Concentration RSD	200.0 %	5.5 %	6.3 %	4.4 %	0.7 %	57.0 %	0.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0001 ppm	0.0050 ppm	0.0003 ppm	0.0006 ppm	3.7430 ppm	3.4015 ppm	0.0003 ppm
Concentration per Run 1	-0.0001 ppm	0.0049 ppm	0.0004 ppm	0.0006 ppm	3.7604 ppm	3.4338 ppm	0.0003 ppm
Concentration per Run 2	-0.0001 ppm	0.0052 ppm	0.0001 ppm	0.0009 ppm	3.7352 ppm	3.3811 ppm	0.0004 ppm
Concentration per Run 3	0.0000 ppm	0.0049 ppm	0.0003 ppm	0.0005 ppm	3.7334 ppm	3.3896 ppm	0.0003 ppm
Concentration RSD	108.2 %	3.9 %	73.4 %	31.1 %	0.4 %	0.8 %	30.5 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	3.2008 ppm	1.4892 ppm	-0.0001 ppm	65.5834 ppm	0.0027 ppm	-0.0003 ppm	0.0015 ppm
Concentration per Run 1	3.2113 ppm	1.4971 ppm	0.0000 ppm	65.8700 ppm	0.0028 ppm	0.0002 ppm	-0.0004 ppm
Concentration per Run 2	3.1961 ppm	1.4858 ppm	0.0000 ppm	65.4138 ppm	0.0024 ppm	-0.0012 ppm	0.0004 ppm
Concentration per Run 3	3.1952 ppm	1.4847 ppm	-0.0002 ppm	65.4664 ppm	0.0028 ppm	0.0000 ppm	0.0046 ppm
Concentration RSD	0.3 %	0.5 %	203.1 %	0.4 %	8.3 %	230.2 %	176.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0016 ppm	4.8669 ppm	-0.0010 ppm	0.1372 ppm	0.0006 ppm	-0.0006 ppm	-0.0001 ppm
Concentration per Run 1	-0.0014 ppm	4.8695 ppm	-0.0007 ppm	0.1379 ppm	0.0005 ppm	-0.0007 ppm	0.0000 ppm
Concentration per Run 2	-0.0007 ppm	4.8771 ppm	-0.0004 ppm	0.1374 ppm	0.0007 ppm	-0.0014 ppm	-0.0001 ppm
Concentration per Run 3	-0.0028 ppm	4.8541 ppm	-0.0019 ppm	0.1363 ppm	0.0007 ppm	0.0001 ppm	-0.0001 ppm
Concentration RSD	67.5 %	0.2 %	80.7 %	0.6 %	19.6 %	114.9 %	52.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0013 ppm	101.0920 %	101.9148 %	96.3617 %	98.6447 %	100.4694 %	96.4063 %
Concentration per Run 1	0.0014 ppm	100.5465 %	101.4941 %	96.1366 %	98.6974 %	100.3988 %	96.0797 %
Concentration per Run 2	0.0012 ppm	101.1368 %	101.9198 %	96.5882 %	98.3785 %	100.0880 %	96.6678 %
Concentration per Run 3	0.0013 ppm	101.5926 %	102.3304 %	96.3602 %	98.8581 %	100.9212 %	96.4713 %
Concentration RSD	6.8 %	0.5 %	0.4 %	0.2 %	0.2 %	0.4 %	0.3 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2536262-12 WG2079154
 Analysis started at: 6/27/2025 6:27:31 PM
 Rack: 2
 Vial: 17
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0001 ppm	0.0288 ppm	0.0058 ppm	0.0114 ppm	0.0175 ppm	0.0000 ppm	13.4471 ppm
Concentration per Run 1	-0.0001 ppm	0.0266 ppm	0.0055 ppm	0.0113 ppm	0.0176 ppm	0.0000 ppm	13.4875 ppm
Concentration per Run 2	0.0001 ppm	0.0317 ppm	0.0072 ppm	0.0123 ppm	0.0174 ppm	0.0000 ppm	13.4240 ppm
Concentration per Run 3	-0.0003 ppm	0.0280 ppm	0.0047 ppm	0.0107 ppm	0.0175 ppm	0.0000 ppm	13.4298 ppm
Concentration RSD	179.8 %	9.2 %	21.6 %	6.8 %	0.6 %	8.8 %	0.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	0.0020 ppm	0.0006 ppm	0.0009 ppm	0.7465 ppm	3.2149 ppm	0.0010 ppm
Concentration per Run 1	0.0000 ppm	0.0020 ppm	0.0005 ppm	0.0009 ppm	0.7529 ppm	3.2752 ppm	0.0009 ppm
Concentration per Run 2	-0.0001 ppm	0.0018 ppm	0.0006 ppm	0.0010 ppm	0.7421 ppm	3.1873 ppm	0.0016 ppm
Concentration per Run 3	0.0001 ppm	0.0021 ppm	0.0005 ppm	0.0009 ppm	0.7445 ppm	3.1823 ppm	0.0005 ppm
Concentration RSD	335.5 %	6.2 %	5.9 %	6.1 %	0.8 %	1.6 %	54.6 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	2.4461 ppm	0.4313 ppm	-0.0001 ppm	52.7067 ppm	0.0031 ppm	0.0001 ppm	0.0007 ppm
Concentration per Run 1	2.4587 ppm	0.4341 ppm	-0.0001 ppm	53.0978 ppm	0.0030 ppm	0.0003 ppm	0.0007 ppm
Concentration per Run 2	2.4368 ppm	0.4286 ppm	-0.0002 ppm	52.3657 ppm	0.0029 ppm	0.0001 ppm	-0.0003 ppm
Concentration per Run 3	2.4428 ppm	0.4313 ppm	0.0000 ppm	52.6565 ppm	0.0034 ppm	-0.0001 ppm	0.0015 ppm
Concentration RSD	0.5 %	0.6 %	100.1 %	0.7 %	7.6 %	149.6 %	137.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0007 ppm	2.5062 ppm	-0.0013 ppm	0.0899 ppm	0.0007 ppm	-0.0006 ppm	0.0002 ppm
Concentration per Run 1	-0.0004 ppm	2.5109 ppm	-0.0011 ppm	0.0903 ppm	0.0007 ppm	-0.0010 ppm	0.0003 ppm
Concentration per Run 2	-0.0003 ppm	2.5024 ppm	-0.0016 ppm	0.0896 ppm	0.0007 ppm	-0.0003 ppm	0.0000 ppm
Concentration per Run 3	-0.0014 ppm	2.5052 ppm	-0.0014 ppm	0.0897 ppm	0.0007 ppm	-0.0003 ppm	0.0001 ppm
Concentration RSD	92.9 %	0.2 %	16.7 %	0.4 %	5.3 %	74.5 %	100.7 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0023 ppm	101.1765 %	102.8912 %	97.4009 %	99.1392 %	101.3850 %	96.8069 %
Concentration per Run 1	0.0023 ppm	101.0992 %	102.7030 %	97.0051 %	99.3952 %	101.6577 %	96.8245 %
Concentration per Run 2	0.0024 ppm	101.1977 %	103.3904 %	97.3485 %	99.7065 %	101.5541 %	96.6047 %
Concentration per Run 3	0.0022 ppm	101.2325 %	102.5801 %	97.8490 %	98.3161 %	100.9431 %	96.9913 %
Concentration RSD	3.3 %	0.1 %	0.4 %	0.4 %	0.7 %	0.4 %	0.2 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2535879-01 WG2082357
 Analysis started at: 6/27/2025 6:40:48 PM
 Rack: 2
 Vial: 19
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0002 ppm	0.0021 ppm	0.0004 ppm	0.1224 ppm	0.0375 ppm	0.0000 ppm	101.6632 ppm
Concentration per Run 1	0.0002 ppm	-0.0033 ppm	0.0015 ppm	0.1226 ppm	0.0374 ppm	0.0000 ppm	101.8730 ppm
Concentration per Run 2	0.0002 ppm	0.0030 ppm	-0.0014 ppm	0.1214 ppm	0.0376 ppm	0.0000 ppm	101.5362 ppm
Concentration per Run 3	0.0003 ppm	0.0067 ppm	0.0010 ppm	0.1232 ppm	0.0376 ppm	0.0000 ppm	101.5803 ppm
Concentration RSD	16.2 %	235.4 %	443.1 %	0.7 %	0.2 %	76.9 %	0.2 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0005 ppm	0.0002 ppm	0.0040 ppm	0.0024 ppm	0.0045 ppm	10.8520 ppm	0.0001 ppm
Concentration per Run 1	-0.0005 ppm	0.0002 ppm	0.0042 ppm	0.0022 ppm	0.0048 ppm	10.7506 ppm	0.0001 ppm
Concentration per Run 2	-0.0005 ppm	0.0002 ppm	0.0040 ppm	0.0026 ppm	0.0040 ppm	10.8819 ppm	-0.0001 ppm
Concentration per Run 3	-0.0005 ppm	0.0002 ppm	0.0039 ppm	0.0025 ppm	0.0048 ppm	10.9236 ppm	0.0001 ppm
Concentration RSD	2.0 %	6.2 %	4.0 %	7.4 %	9.8 %	0.8 %	294.1 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	23.9233 ppm	0.0010 ppm	0.0012 ppm	459.0229 ppm	0.0011 ppm	-0.0005 ppm	0.0019 ppm
Concentration per Run 1	24.0615 ppm	0.0011 ppm	0.0009 ppm	456.6819 ppm	0.0012 ppm	-0.0003 ppm	0.0001 ppm
Concentration per Run 2	23.9528 ppm	0.0010 ppm	0.0015 ppm	459.9326 ppm	0.0013 ppm	-0.0007 ppm	0.0028 ppm
Concentration per Run 3	23.7556 ppm	0.0010 ppm	0.0012 ppm	460.4541 ppm	0.0008 ppm	-0.0004 ppm	0.0027 ppm
Concentration RSD	0.6 %	7.6 %	24.0 %	0.4 %	24.6 %	41.3 %	83.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0006 ppm	6.0264 ppm	-0.0007 ppm	0.6046 ppm	0.0004 ppm	-0.0003 ppm	0.0034 ppm
Concentration per Run 1	-0.0008 ppm	6.0401 ppm	-0.0011 ppm	0.6003 ppm	0.0006 ppm	0.0000 ppm	0.0032 ppm
Concentration per Run 2	0.0003 ppm	6.0252 ppm	-0.0004 ppm	0.6061 ppm	0.0004 ppm	-0.0007 ppm	0.0036 ppm
Concentration per Run 3	-0.0012 ppm	6.0139 ppm	-0.0006 ppm	0.6075 ppm	0.0004 ppm	-0.0002 ppm	0.0033 ppm
Concentration RSD	142.4 %	0.2 %	51.9 %	0.6 %	27.0 %	117.0 %	5.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0051 ppm	92.3799 %	97.2960 %	81.5063 %	89.4672 %	95.2728 %	87.5968 %
Concentration per Run 1	0.0050 ppm	92.0060 %	96.8671 %	81.7605 %	89.4748 %	94.9108 %	87.8524 %
Concentration per Run 2	0.0051 ppm	92.4685 %	97.2698 %	81.1742 %	88.9144 %	95.3038 %	87.4190 %
Concentration per Run 3	0.0050 ppm	92.6653 %	97.7510 %	81.5843 %	90.0125 %	95.6036 %	87.5190 %
Concentration RSD	1.4 %	0.4 %	0.5 %	0.4 %	0.6 %	0.4 %	0.3 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: eL2535879-02 WG2082357
 Analysis started at: 6/27/2025 6:44:08 PM
 Rack: 2
 Vial: 20
 Comment: <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0004 ppm	0.6077 ppm	0.0023 ppm	0.2749 ppm	0.0470 ppm	0.0004 ppm	170.8838 ppm
Concentration per Run 1	0.0002 ppm	0.6113 ppm	0.0013 ppm	0.2751 ppm	0.0469 ppm	0.0004 ppm	170.6502 ppm
Concentration per Run 2	0.0006 ppm	0.6105 ppm	0.0031 ppm	0.2760 ppm	0.0470 ppm	0.0004 ppm	171.6989 ppm
Concentration per Run 3	0.0005 ppm	0.6012 ppm	0.0026 ppm	0.2736 ppm	0.0470 ppm	0.0005 ppm	170.3025 ppm
Concentration RSD	47.4 %	0.9 %	40.9 %	0.4 %	0.1 %	4.2 %	0.4 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0013 ppm	0.0099 ppm	0.0005 ppm	0.0097 ppm	0.0156 ppm	18.5487 ppm	0.0003 ppm
Concentration per Run 1	0.0013 ppm	0.0099 ppm	0.0008 ppm	0.0095 ppm	0.0155 ppm	18.4253 ppm	0.0008 ppm
Concentration per Run 2	0.0012 ppm	0.0094 ppm	0.0003 ppm	0.0098 ppm	0.0158 ppm	18.6986 ppm	0.0002 ppm
Concentration per Run 3	0.0013 ppm	0.0104 ppm	0.0004 ppm	0.0098 ppm	0.0156 ppm	18.5222 ppm	-0.0003 ppm
Concentration RSD	4.2 %	5.2 %	45.6 %	1.7 %	1.2 %	0.7 %	219.7 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	92.8253 ppm	1.2570 ppm	-0.0001 ppm	1,060.0785 [SIC 500]	0.0154 ppm	-0.0003 ppm	-0.0004 ppm
Concentration per Run 1	92.8335 ppm	1.2599 ppm	-0.0001 ppm	1,055.9507 ppm	0.0150 ppm	-0.0008 ppm	-0.0014 ppm
Concentration per Run 2	92.9435 ppm	1.2608 ppm	0.0002 ppm	1,070.0064 ppm	0.0154 ppm	0.0004 ppm	0.0002 ppm
Concentration per Run 3	92.6988 ppm	1.2505 ppm	-0.0003 ppm	1,054.2785 ppm	0.0159 ppm	-0.0004 ppm	0.0000 ppm
Concentration RSD	0.1 %	0.5 %	367.2 %	0.8 %	2.9 %	220.9 %	201.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	0.0025 ppm	5.4724 ppm	-0.0009 ppm	0.9290 ppm	0.0004 ppm	-0.0024 ppm	0.0001 ppm
Concentration per Run 1	-0.0009 ppm	5.4881 ppm	-0.0012 ppm	0.9259 ppm	0.0001 ppm	-0.0021 ppm	0.0001 ppm
Concentration per Run 2	0.0050 ppm	5.4798 ppm	-0.0005 ppm	0.9303 ppm	0.0006 ppm	-0.0018 ppm	0.0001 ppm
Concentration per Run 3	0.0036 ppm	5.4494 ppm	-0.0011 ppm	0.9309 ppm	0.0004 ppm	-0.0032 ppm	0.0000 ppm
Concentration RSD	121.5 %	0.4 %	41.5 %	0.3 %	70.9 %	30.0 %	15.1 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0606 ppm	84.3806 %	93.4254 %	72.3081 %	88.9969 %	99.5964 %	87.6414 %
Concentration per Run 1	0.0604 ppm	84.7124 %	93.8589 %	72.4826 %	89.0320 %	100.0956 %	87.7368 %
Concentration per Run 2	0.0611 ppm	84.0678 %	93.4020 %	72.1131 %	88.8522 %	99.9342 %	87.5711 %
Concentration per Run 3	0.0603 ppm	84.3616 %	93.0154 %	72.3286 %	89.1064 %	98.7594 %	87.6164 %
Concentration RSD	0.8 %	0.4 %	0.5 %	0.3 %	0.1 %	0.7 %	0.1 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2535879-03 WG2082357
 Analysis started at: 6/27/2025 6:47:21 PM
 Rack: 2
 Vial: 21
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0000 ppm	0.0090 ppm	-0.0010 ppm	0.0466 ppm	0.0075 ppm	0.0000 ppm	30.6163 ppm
Concentration per Run 1	-0.0001 ppm	0.0092 ppm	-0.0008 ppm	0.0463 ppm	0.0074 ppm	0.0000 ppm	30.4391 ppm
Concentration per Run 2	0.0000 ppm	0.0067 ppm	-0.0007 ppm	0.0471 ppm	0.0075 ppm	0.0000 ppm	30.7470 ppm
Concentration per Run 3	0.0002 ppm	0.0110 ppm	-0.0014 ppm	0.0466 ppm	0.0075 ppm	0.0000 ppm	30.6627 ppm
Concentration RSD	343.3 %	23.8 %	42.8 %	0.9 %	0.5 %	141.6 %	0.5 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0001 ppm	-0.0001 ppm	0.0019 ppm	0.0013 ppm	0.0071 ppm	2.7089 ppm	0.0006 ppm
Concentration per Run 1	-0.0001 ppm	-0.0002 ppm	0.0018 ppm	0.0015 ppm	0.0062 ppm	2.7412 ppm	0.0007 ppm
Concentration per Run 2	-0.0001 ppm	0.0000 ppm	0.0018 ppm	0.0010 ppm	0.0073 ppm	2.7163 ppm	0.0005 ppm
Concentration per Run 3	-0.0001 ppm	-0.0002 ppm	0.0021 ppm	0.0013 ppm	0.0078 ppm	2.6691 ppm	0.0004 ppm
Concentration RSD	16.1 %	125.2 %	10.7 %	18.6 %	11.4 %	1.4 %	22.2 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	4.9542 ppm	0.0011 ppm	0.0098 ppm	46.6534 ppm	0.0006 ppm	-0.0002 ppm	0.0020 ppm
Concentration per Run 1	4.9512 ppm	0.0012 ppm	0.0095 ppm	46.5898 ppm	0.0005 ppm	-0.0004 ppm	0.0016 ppm
Concentration per Run 2	4.9643 ppm	0.0011 ppm	0.0098 ppm	46.9231 ppm	0.0004 ppm	-0.0014 ppm	0.0028 ppm
Concentration per Run 3	4.9471 ppm	0.0010 ppm	0.0101 ppm	46.4472 ppm	0.0009 ppm	0.0011 ppm	0.0016 ppm
Concentration RSD	0.2 %	11.4 %	2.9 %	0.5 %	40.8 %	582.0 %	34.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0034 ppm	4.8842 ppm	-0.0009 ppm	0.1228 ppm	0.0003 ppm	0.0008 ppm	0.0009 ppm
Concentration per Run 1	0.0039 ppm	4.8935 ppm	-0.0009 ppm	0.1224 ppm	0.0002 ppm	0.0010 ppm	0.0008 ppm
Concentration per Run 2	0.0036 ppm	4.8717 ppm	-0.0001 ppm	0.1235 ppm	0.0003 ppm	0.0007 ppm	0.0010 ppm
Concentration per Run 3	0.0029 ppm	4.8873 ppm	-0.0017 ppm	0.1225 ppm	0.0003 ppm	0.0008 ppm	0.0009 ppm
Concentration RSD	15.6 %	0.2 %	92.6 %	0.5 %	26.4 %	16.2 %	13.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0006 ppm	100.4051 %	102.4251 %	96.1466 %	98.0828 %	100.5882 %	95.8845 %
Concentration per Run 1	0.0004 ppm	101.0453 %	103.0337 %	95.9460 %	98.4277 %	100.5923 %	95.9731 %
Concentration per Run 2	0.0007 ppm	99.7972 %	101.9177 %	96.3435 %	96.9881 %	100.6764 %	96.0076 %
Concentration per Run 3	0.0007 ppm	100.3728 %	102.3239 %	96.1503 %	98.8325 %	100.4957 %	95.6727 %
Concentration RSD	26.8 %	0.6 %	0.6 %	0.2 %	1.0 %	0.1 %	0.2 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2535879-04 WG2082357
 Analysis started at: 6/27/2025 6:50:34 PM
 Rack: 2
 Vial: 22
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	-0.0002 ppm	0.0543 ppm	-0.0005 ppm	0.0736 ppm	0.0180 ppm	0.0000 ppm	30.7073 ppm
Concentration per Run 1	-0.0001 ppm	0.0523 ppm	-0.0005 ppm	0.0735 ppm	0.0180 ppm	0.0000 ppm	30.5891 ppm
Concentration per Run 2	-0.0002 ppm	0.0563 ppm	-0.0009 ppm	0.0747 ppm	0.0179 ppm	0.0000 ppm	30.8073 ppm
Concentration per Run 3	-0.0002 ppm	0.0543 ppm	-0.0001 ppm	0.0726 ppm	0.0181 ppm	0.0000 ppm	30.7257 ppm
Concentration RSD	50.9 %	3.7 %	82.3 %	1.4 %	0.8 %	63.7 %	0.4 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0001 ppm	0.0010 ppm	0.0003 ppm	0.0024 ppm	0.2371 ppm	7.3884 ppm	0.0014 ppm
Concentration per Run 1	-0.0001 ppm	0.0010 ppm	0.0005 ppm	0.0024 ppm	0.2373 ppm	7.4452 ppm	0.0015 ppm
Concentration per Run 2	-0.0001 ppm	0.0012 ppm	0.0001 ppm	0.0022 ppm	0.2364 ppm	7.4104 ppm	0.0015 ppm
Concentration per Run 3	-0.0001 ppm	0.0007 ppm	0.0003 ppm	0.0026 ppm	0.2377 ppm	7.3095 ppm	0.0010 ppm
Concentration RSD	34.5 %	27.6 %	65.4 %	7.6 %	0.3 %	1.0 %	20.6 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	23.0510 ppm	0.6722 ppm	0.0053 ppm	152.7119 ppm	0.0038 ppm	0.0005 ppm	0.0004 ppm
Concentration per Run 1	23.1495 ppm	0.6704 ppm	0.0055 ppm	153.4936 ppm	0.0036 ppm	-0.0003 ppm	0.0025 ppm
Concentration per Run 2	23.0677 ppm	0.6731 ppm	0.0050 ppm	153.2349 ppm	0.0040 ppm	0.0008 ppm	-0.0013 ppm
Concentration per Run 3	22.9356 ppm	0.6731 ppm	0.0053 ppm	151.4071 ppm	0.0037 ppm	0.0008 ppm	-0.0001 ppm
Concentration RSD	0.5 %	0.2 %	4.2 %	0.7 %	6.0 %	141.2 %	498.0 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0035 ppm	8.2338 ppm	-0.0012 ppm	0.1298 ppm	0.0005 ppm	-0.0005 ppm	0.0020 ppm
Concentration per Run 1	0.0040 ppm	8.2436 ppm	-0.0018 ppm	0.1293 ppm	0.0007 ppm	-0.0008 ppm	0.0019 ppm
Concentration per Run 2	0.0031 ppm	8.2610 ppm	-0.0008 ppm	0.1295 ppm	0.0007 ppm	0.0007 ppm	0.0020 ppm
Concentration per Run 3	0.0032 ppm	8.1967 ppm	-0.0011 ppm	0.1306 ppm	0.0003 ppm	-0.0013 ppm	0.0020 ppm
Concentration RSD	14.1 %	0.4 %	41.7 %	0.5 %	43.8 %	215.8 %	2.1 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0022 ppm	98.1148 %	100.2515 %	90.4642 %	95.9187 %	98.5702 %	92.9958 %
Concentration per Run 1	0.0023 ppm	97.1784 %	101.0045 %	90.7489 %	94.9769 %	99.5762 %	93.5081 %
Concentration per Run 2	0.0023 ppm	98.4080 %	99.8751 %	90.2969 %	96.9425 %	98.2728 %	92.7360 %
Concentration per Run 3	0.0022 ppm	98.7581 %	99.8750 %	90.3468 %	95.8369 %	97.8615 %	92.7432 %
Concentration RSD	3.4 %	0.8 %	0.7 %	0.3 %	1.0 %	0.9 %	0.5 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: xL2536075-01 WG2082357
 Analysis started at: 6/27/2025 6:53:48 PM
 Rack: 2
 Vial: 23
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0004 ppm	0.0096 ppm	∞ ppm	0.0179 ppm	0.0227 ppm	0.0000 ppm	12.3116 ppm
Concentration per Run 1	0.0008 ppm	0.0116 ppm	∞ ppm	0.0182 ppm	0.0227 ppm	0.0000 ppm	12.3838 ppm
Concentration per Run 2	0.0002 ppm	0.0124 ppm	0.0009 ppm	0.0180 ppm	0.0228 ppm	0.0000 ppm	12.2957 ppm
Concentration per Run 3	0.0003 ppm	0.0049 ppm	-0.0003 ppm	0.0174 ppm	0.0226 ppm	0.0000 ppm	12.2553 ppm
Concentration RSD	65.9 %	43.1 %		2.4 %	0.4 %	49.3 %	0.5 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0010 ppm	0.0033 ppm	0.0006 ppm	∞ ppm	0.9687 ppm	1.0576 ppm	0.0050 ppm
Concentration per Run 1	0.0010 ppm	0.0032 ppm	0.0005 ppm	∞ ppm	0.9724 ppm	1.0622 ppm	0.0053 ppm
Concentration per Run 2	0.0010 ppm	0.0032 ppm	0.0009 ppm	0.0015 ppm	0.9695 ppm	1.0616 ppm	0.0047 ppm
Concentration per Run 3	0.0010 ppm	0.0034 ppm	0.0005 ppm	0.0019 ppm	0.9642 ppm	1.0489 ppm	0.0050 ppm
Concentration RSD	2.2 %	4.5 %	34.3 %		0.4 %	0.7 %	6.4 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	3.8242 ppm	0.4997 ppm	0.0003 ppm	45.8416 ppm	0.1159 ppm	∞ ppm	∞ ppm
Concentration per Run 1	3.8497 ppm	0.5036 ppm	0.0007 ppm	45.7513 ppm	0.0003 ppm	∞ ppm	∞ ppm
Concentration per Run 2	3.8369 ppm	0.4976 ppm	0.0001 ppm	45.9108 ppm	0.1765 ppm	0.0005 ppm	0.0007 ppm
Concentration per Run 3	3.7861 ppm	0.4978 ppm	0.0000 ppm	45.8628 ppm	0.1709 ppm	0.0006 ppm	-0.0021 ppm
Concentration RSD	0.9 %	0.7 %	141.1 %	0.2 %	86.4 %		

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	∞ ppm	5.6627 ppm	-0.0009 ppm	0.1037 ppm	0.0004 ppm	∞ ppm	∞ ppm
Concentration per Run 1	∞ ppm	-0.0125 ppm	-0.0013 ppm	0.1034 ppm	0.0005 ppm	∞ ppm	∞ ppm
Concentration per Run 2	-0.0010 ppm	8.5240 ppm	-0.0006 ppm	0.1039 ppm	0.0005 ppm	-0.0001 ppm	0.0000 ppm
Concentration per Run 3	-0.0003 ppm	8.4765 ppm	-0.0008 ppm	0.1037 ppm	0.0002 ppm	-0.0003 ppm	-0.0001 ppm
Concentration RSD		86.8 %	39.2 %	0.3 %	52.2 %		

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0033 ppm	102.8151 %	103.1520 %	64.9901 %	66.3819 %	101.6257 %	64.8904 %
Concentration per Run 1	-0.0019 ppm	102.0520 %	103.2527 %	0.0000 %	0.0000 %	102.1011 %	0.0000 %
Concentration per Run 2	0.0060 ppm	103.0724 %	103.6180 %	97.0223 %	100.1202 %	101.7341 %	97.0744 %
Concentration per Run 3	0.0059 ppm	103.3209 %	102.5853 %	97.9479 %	99.0255 %	101.0420 %	97.5968 %
Concentration RSD	136.7 %	0.7 %	0.5 %	86.6 %	86.6 %	0.5 %	86.6 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2536075-02 WG2082357
 Analysis started at: 6/27/2025 6:57:01 PM
 Rack: 2
 Vial: 24
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0001 ppm	0.0104 ppm	0.0010 ppm	0.0488 ppm	0.0165 ppm	0.0000 ppm	20.4328 ppm
Concentration per Run 1	0.0003 ppm	0.0163 ppm	0.0010 ppm	0.0478 ppm	0.0165 ppm	0.0000 ppm	20.4843 ppm
Concentration per Run 2	0.0001 ppm	0.0058 ppm	0.0020 ppm	0.0504 ppm	0.0165 ppm	0.0000 ppm	20.4389 ppm
Concentration per Run 3	0.0000 ppm	0.0090 ppm	0.0002 ppm	0.0481 ppm	0.0165 ppm	0.0000 ppm	20.3752 ppm
Concentration RSD	107.8 %	52.3 %	85.5 %	2.9 %	0.2 %	84.8 %	0.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	0.0013 ppm	0.0005 ppm	0.0009 ppm	5.0140 ppm	1.3051 ppm	0.0005 ppm
Concentration per Run 1	0.0000 ppm	0.0009 ppm	0.0004 ppm	0.0011 ppm	5.0235 ppm	1.3078 ppm	0.0003 ppm
Concentration per Run 2	0.0000 ppm	0.0012 ppm	0.0006 ppm	0.0007 ppm	5.0069 ppm	1.3070 ppm	0.0008 ppm
Concentration per Run 3	0.0000 ppm	0.0019 ppm	0.0004 ppm	0.0008 ppm	5.0117 ppm	1.3005 ppm	0.0003 ppm
Concentration RSD	140.0 %	41.3 %	30.6 %	21.0 %	0.2 %	0.3 %	55.6 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	1.6662 ppm	0.3561 ppm	0.0002 ppm	47.0511 ppm	0.0264 ppm	-0.0001 ppm	0.0006 ppm
Concentration per Run 1	1.6668 ppm	0.3573 ppm	0.0006 ppm	46.8180 ppm	0.0265 ppm	-0.0005 ppm	0.0008 ppm
Concentration per Run 2	1.6655 ppm	0.3563 ppm	-0.0002 ppm	47.3100 ppm	0.0262 ppm	-0.0004 ppm	0.0000 ppm
Concentration per Run 3	1.6661 ppm	0.3546 ppm	0.0003 ppm	47.0251 ppm	0.0264 ppm	0.0004 ppm	0.0011 ppm
Concentration RSD	0.0 %	0.4 %	195.0 %	0.5 %	0.6 %	353.7 %	87.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0002 ppm	6.8953 ppm	-0.0011 ppm	0.0555 ppm	0.0003 ppm	0.0001 ppm	0.0003 ppm
Concentration per Run 1	-0.0004 ppm	6.8766 ppm	-0.0009 ppm	0.0555 ppm	0.0004 ppm	-0.0001 ppm	0.0002 ppm
Concentration per Run 2	0.0001 ppm	6.8866 ppm	-0.0015 ppm	0.0553 ppm	0.0002 ppm	0.0002 ppm	0.0003 ppm
Concentration per Run 3	-0.0005 ppm	6.9227 ppm	-0.0009 ppm	0.0558 ppm	0.0003 ppm	0.0001 ppm	0.0003 ppm
Concentration RSD	145.8 %	0.4 %	28.2 %	0.4 %	28.9 %	297.1 %	24.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0048 ppm	101.6993 %	103.1150 %	96.9625 %	99.8795 %	101.4930 %	97.2542 %
Concentration per Run 1	0.0049 ppm	101.5457 %	103.1627 %	97.4019 %	99.5703 %	101.6847 %	97.7719 %
Concentration per Run 2	0.0048 ppm	101.2979 %	102.7305 %	96.7935 %	99.4072 %	101.2696 %	96.9947 %
Concentration per Run 3	0.0047 ppm	102.2542 %	103.4517 %	96.6922 %	100.6610 %	101.5247 %	96.9959 %
Concentration RSD	2.6 %	0.5 %	0.4 %	0.4 %	0.7 %	0.2 %	0.5 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2536075-01 WG2082357
 Analysis started at: 6/27/2025 7:00:15 PM
 Rack: 2
 Vial: 23
 Comment: <Comment>

	Ag 328.068 (Axial-iFR)	Al 396.152 (Radial-iFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-iFR)	Ba 455.403 (Radial-iFR)	Be 313.042 (Radial-iFR)	Ca 315.887 (Radial-iFR)
Concentration average	0.0001 ppm	0.0068 ppm	0.0001 ppm	0.0193 ppm	0.0227 ppm	0.0000 ppm	12.2352 ppm
Concentration per Run 1	0.0001 ppm	0.0059 ppm	-0.0010 ppm	0.0203 ppm	0.0226 ppm	0.0001 ppm	12.2293 ppm
Concentration per Run 2	0.0001 ppm	0.0104 ppm	0.0009 ppm	0.0192 ppm	0.0226 ppm	0.0000 ppm	12.2289 ppm
Concentration per Run 3	0.0001 ppm	0.0041 ppm	0.0003 ppm	0.0183 ppm	0.0228 ppm	0.0000 ppm	12.2473 ppm
Concentration RSD	7.6 %	48.1 %	1,698.5 %	5.1 %	0.5 %	88.3 %	0.1 %

	Cd 214.438 (Axial-iFR)	Co 228.616 (Axial-iFR)	Cr 267.716 (Axial-iFR)	Cu 324.754 (Axial-iFR)	Fe 259.940 (Radial-iFR)	K 766.490 (Radial-iFR)	Li 670.776 (Radial-iFR)
Concentration average	0.0009 ppm	0.0037 ppm	0.0004 ppm	0.0013 ppm	0.9620 ppm	1.0772 ppm	0.0047 ppm
Concentration per Run 1	0.0008 ppm	0.0034 ppm	0.0002 ppm	0.0010 ppm	0.9592 ppm	1.0928 ppm	0.0050 ppm
Concentration per Run 2	0.0009 ppm	0.0036 ppm	0.0004 ppm	0.0016 ppm	0.9626 ppm	1.0683 ppm	0.0047 ppm
Concentration per Run 3	0.0009 ppm	0.0040 ppm	0.0008 ppm	0.0013 ppm	0.9643 ppm	1.0706 ppm	0.0045 ppm
Concentration RSD	4.6 %	8.7 %	74.0 %	22.3 %	0.3 %	1.3 %	4.5 %

	Mg 279.079 (Axial-iFR)	Mn 257.610 (Radial-iFR)	Mo 202.030 (Axial-iFR)	Na 589.592 (Radial-iFR)	Ni 231.604 (Axial-iFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-iFR)
Concentration average	3.8430 ppm	0.4994 ppm	0.0001 ppm	46.0876 ppm	0.1730 ppm	-0.0002 ppm	-0.0002 ppm
Concentration per Run 1	3.8632 ppm	0.4979 ppm	0.0000 ppm	46.2020 ppm	0.1726 ppm	0.0005 ppm	-0.0002 ppm
Concentration per Run 2	3.8466 ppm	0.5006 ppm	0.0001 ppm	46.2035 ppm	0.1734 ppm	-0.0004 ppm	-0.0003 ppm
Concentration per Run 3	3.8194 ppm	0.4996 ppm	0.0002 ppm	45.8574 ppm	0.1730 ppm	-0.0006 ppm	0.0000 ppm
Concentration RSD	0.6 %	0.3 %	89.0 %	0.4 %	0.2 %	358.6 %	98.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-iFR)	Sn 189.989 (Axial-iFR)	Sr 421.552 (Radial-iFR)	Ti 334.904 (Axial-iFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-iFR)
Concentration average	-0.0004 ppm	8.4990 ppm	-0.0014 ppm	0.1040 ppm	0.0003 ppm	0.0006 ppm	0.0000 ppm
Concentration per Run 1	0.0019 ppm	8.5090 ppm	-0.0013 ppm	0.1039 ppm	0.0003 ppm	0.0006 ppm	0.0000 ppm
Concentration per Run 2	-0.0009 ppm	8.5070 ppm	-0.0012 ppm	0.1037 ppm	0.0004 ppm	0.0002 ppm	0.0000 ppm
Concentration per Run 3	-0.0023 ppm	8.4810 ppm	-0.0016 ppm	0.1045 ppm	0.0003 ppm	0.0011 ppm	0.0000 ppm
Concentration RSD	493.0 %	0.2 %	17.4 %	0.4 %	18.6 %	70.8 %	994.6 %

	Zn 206.200 (Axial-iFR)	Sc 361.384 (Axial-iFR)	Sc 361.384 (Radial-iFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-iFR)	Y 371.030 (Radial-iFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0060 ppm	101.9411 %	102.7977 %	97.6126 %	99.3354 %	101.1989 %	97.3560 %
Concentration per Run 1	0.0061 ppm	102.0045 %	102.9662 %	97.6942 %	100.2647 %	101.3554 %	97.5808 %
Concentration per Run 2	0.0059 ppm	101.4455 %	102.5393 %	97.9370 %	98.2744 %	100.7966 %	97.6155 %
Concentration per Run 3	0.0059 ppm	102.3734 %	102.8877 %	97.2067 %	99.4671 %	101.4447 %	96.8717 %
Concentration RSD	2.1 %	0.5 %	0.2 %	0.4 %	1.0 %	0.3 %	0.4 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: CCV
Analysis started at: 6/27/2025 7:09:13 PM
Rack: 0
Vial: 3
Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.5207 ppm	0.4836 ppm	0.4660 ppm	0.4823 ppm	0.4892 ppm	0.4922 ppm	0.4760 ppm
Concentration per Run 1	0.5203 ppm	0.4810 ppm	0.4661 ppm	0.4813 ppm	0.4902 ppm	0.4949 ppm	0.4769 ppm
Concentration per Run 2	0.5214 ppm	0.4809 ppm	0.4654 ppm	0.4836 ppm	0.4880 ppm	0.4900 ppm	0.4733 ppm
Concentration per Run 3	0.5204 ppm	0.4890 ppm	0.4665 ppm	0.4818 ppm	0.4894 ppm	0.4917 ppm	0.4776 ppm
Recovery Percentage 1	104.136 %	96.729 %	93.202 %	96.451 %	97.839 %	98.441 %	95.191 %
Concentration RSD	0.1 %	1.0 %	0.1 %	0.3 %	0.2 %	0.5 %	0.5 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.4597 ppm	0.4898 ppm	0.5034 ppm	0.4937 ppm	0.4934 ppm	5.0830 ppm	0.5079 ppm
Concentration per Run 1	0.4582 ppm	0.4888 ppm	0.5016 ppm	0.4940 ppm	0.4958 ppm	5.0870 ppm	0.5048 ppm
Concentration per Run 2	0.4591 ppm	0.4901 ppm	0.5039 ppm	0.4948 ppm	0.4903 ppm	5.0654 ppm	0.5062 ppm
Concentration per Run 3	0.4618 ppm	0.4904 ppm	0.5047 ppm	0.4923 ppm	0.4941 ppm	5.0965 ppm	0.5126 ppm
Recovery Percentage 1	91.945 %	97.955 %	100.685 %	98.741 %	98.683 %	101.660 %	101.574 %
Concentration RSD	0.4 %	0.2 %	0.3 %	0.3 %	0.6 %	0.3 %	0.8 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.5021 ppm	0.4902 ppm	0.4838 ppm	10.1225 ppm	0.5023 ppm	0.4951 ppm	0.4775 ppm
Concentration per Run 1	0.5011 ppm	0.4909 ppm	0.4823 ppm	10.0324 ppm	0.4972 ppm	0.4959 ppm	0.4766 ppm
Concentration per Run 2	0.5022 ppm	0.4882 ppm	0.4830 ppm	10.1717 ppm	0.5046 ppm	0.4949 ppm	0.4785 ppm
Concentration per Run 3	0.5029 ppm	0.4915 ppm	0.4860 ppm	10.1634 ppm	0.5051 ppm	0.4946 ppm	0.4772 ppm
Recovery Percentage 1	100.414 %	98.044 %	96.759 %	101.225 %	100.463 %	99.028 %	95.490 %
Concentration RSD	0.2 %	0.4 %	0.4 %	0.8 %	0.9 %	0.1 %	0.2 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.4687 ppm	5.2458 ppm	0.4897 ppm	0.4965 ppm	0.5018 ppm	0.4993 ppm	0.4831 ppm
Concentration per Run 1	0.4691 ppm	5.2322 ppm	0.4808 ppm	0.4987 ppm	0.5007 ppm	0.4996 ppm	0.4824 ppm
Concentration per Run 2	0.4707 ppm	5.2459 ppm	0.4954 ppm	0.4946 ppm	0.5020 ppm	0.5019 ppm	0.4843 ppm
Concentration per Run 3	0.4664 ppm	5.2591 ppm	0.4928 ppm	0.4963 ppm	0.5026 ppm	0.4964 ppm	0.4825 ppm
Recovery Percentage 1	93.744 %	99.919 %	97.934 %	99.304 %	100.354 %	99.861 %	96.610 %
Concentration RSD	0.5 %	0.3 %	1.6 %	0.4 %	0.2 %	0.6 %	0.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4856 ppm	102.7983 %	102.2870 %	100.2794 %	100.8675 %	100.8926 %	98.7377 %
Concentration per Run 1	0.4801 ppm	103.2893 %	101.8334 %	100.4175 %	101.5154 %	100.5015 %	99.0773 %
Concentration per Run 2	0.4891 ppm	102.5701 %	102.8785 %	100.0223 %	100.2124 %	101.3812 %	98.3385 %
Concentration per Run 3	0.4875 ppm	102.5355 %	102.1491 %	100.3985 %	100.8746 %	100.7952 %	98.7973 %
Recovery Percentage 1	97.115 %						
Concentration RSD	1.0 %	0.4 %	0.5 %	0.2 %	0.6 %	0.4 %	0.4 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: CCB
 Analysis started at: 6/27/2025 7:12:33 PM
 Rack: 0
 Vial: 4
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0002 ppm	0.0083 ppm	0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	-0.0008 ppm
Concentration per Run 1	0.0005 ppm	0.0064 ppm	-0.0003 ppm	0.0004 ppm	0.0001 ppm	0.0000 ppm	0.0014 ppm
Concentration per Run 2	-0.0001 ppm	0.0092 ppm	0.0018 ppm	-0.0003 ppm	0.0000 ppm	0.0000 ppm	-0.0022 ppm
Concentration per Run 3	0.0003 ppm	0.0094 ppm	-0.0001 ppm	-0.0002 ppm	0.0000 ppm	0.0000 ppm	-0.0016 ppm
Recovery Percentage 1	3.297 %	8.331 %	9.171 %	-0.140 %	0.363 %	0.767 %	-0.794 %
Concentration RSD	116.0 %	19.9 %	257.9 %	811.8 %	238.0 %	72.1 %	241.1 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0001 ppm	-0.0001 ppm	0.0003 ppm	0.0003 ppm	0.0004 ppm	0.0141 ppm	-0.0003 ppm
Concentration per Run 1	0.0001 ppm	-0.0001 ppm	0.0005 ppm	0.0006 ppm	0.0007 ppm	0.0187 ppm	-0.0006 ppm
Concentration per Run 2	0.0001 ppm	-0.0002 ppm	0.0001 ppm	0.0003 ppm	0.0011 ppm	0.0129 ppm	-0.0001 ppm
Concentration per Run 3	0.0001 ppm	0.0001 ppm	0.0004 ppm	0.0001 ppm	-0.0005 ppm	0.0108 ppm	-0.0002 ppm
Recovery Percentage 1	2.482 %	-0.521 %	3.226 %	3.113 %	0.835 %	0.564 %	-6.200 %
Concentration RSD	12.3 %	138.9 %	54.9 %	87.5 %	194.1 %	29.0 %	82.7 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	-0.0009 ppm	0.0001 ppm	0.0024 ppm	0.0135 ppm	-0.0002 ppm	0.0000 ppm	-0.0013 ppm
Concentration per Run 1	-0.0021 ppm	0.0001 ppm	0.0023 ppm	0.0133 ppm	0.0003 ppm	0.0003 ppm	-0.0002 ppm
Concentration per Run 2	-0.0014 ppm	0.0002 ppm	0.0025 ppm	0.0127 ppm	0.0002 ppm	0.0006 ppm	-0.0022 ppm
Concentration per Run 3	0.0007 ppm	0.0001 ppm	0.0024 ppm	0.0145 ppm	-0.0010 ppm	-0.0008 ppm	-0.0015 ppm
Recovery Percentage 1	-0.940 %	1.198 %	4.812 %	0.674 %	-0.660 %	0.371 %	-2.596 %
Concentration RSD	157.7 %	38.0 %	4.2 %	6.7 %	419.0 %	2,012.5 %	81.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0002 ppm	0.0019 ppm	-0.0001 ppm	0.0000 ppm	0.0005 ppm	-0.0004 ppm	0.0001 ppm
Concentration per Run 1	-0.0009 ppm	0.0012 ppm	0.0002 ppm	0.0000 ppm	0.0006 ppm	-0.0006 ppm	0.0002 ppm
Concentration per Run 2	-0.0005 ppm	0.0022 ppm	-0.0004 ppm	0.0001 ppm	0.0006 ppm	-0.0008 ppm	0.0000 ppm
Concentration per Run 3	0.0009 ppm	0.0023 ppm	-0.0001 ppm	0.0000 ppm	0.0003 ppm	0.0001 ppm	0.0003 ppm
Recovery Percentage 1	-1.753 %	0.386 %	-0.236 %	0.200 %	5.175 %	-2.078 %	1.498 %
Concentration RSD	524.6 %	30.7 %	240.9 %	214.6 %	31.4 %	116.1 %	105.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0007 ppm	101.4642 %	100.5239 %	100.5601 %	101.5370 %	100.9033 %	100.1627 %
Concentration per Run 1	-0.0007 ppm	101.4924 %	100.5290 %	101.1338 %	101.8291 %	101.0322 %	100.6872 %
Concentration per Run 2	-0.0007 ppm	102.1882 %	100.8441 %	100.7385 %	102.0418 %	101.4687 %	100.2879 %
Concentration per Run 3	-0.0008 ppm	100.7120 %	100.1985 %	99.8079 %	100.7401 %	100.2090 %	99.5128 %
Recovery Percentage 1	-14.828 %						
Concentration RSD	13.0 %	0.7 %	0.3 %	0.7 %	0.7 %	0.6 %	0.6 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2538382-06 WG2081457
 Analysis started at: 6/27/2025 7:25:26 PM
 Rack: 2
 Vial: 25
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0002 ppm	0.0096 ppm	0.0003 ppm	0.0122 ppm	0.0366 ppm	0.0000 ppm	12.8004 ppm
Concentration per Run 1	0.0001 ppm	0.0106 ppm	0.0008 ppm	0.0121 ppm	0.0366 ppm	0.0000 ppm	12.8457 ppm
Concentration per Run 2	0.0003 ppm	0.0105 ppm	-0.0001 ppm	0.0119 ppm	0.0364 ppm	0.0000 ppm	12.8234 ppm
Concentration per Run 3	0.0003 ppm	0.0076 ppm	0.0004 ppm	0.0126 ppm	0.0367 ppm	0.0000 ppm	12.7321 ppm
Concentration RSD	60.4 %	18.1 %	141.9 %	2.9 %	0.4 %	85.3 %	0.5 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0037 ppm	0.0009 ppm	0.0059 ppm	1.1094 ppm	0.0026 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0037 ppm	0.0010 ppm	0.0058 ppm	1.1054 ppm	0.0034 ppm
Concentration per Run 2	0.0001 ppm	-0.0003 ppm	0.0038 ppm	0.0008 ppm	0.0057 ppm	1.0997 ppm	0.0024 ppm
Concentration per Run 3	0.0001 ppm	-0.0001 ppm	0.0036 ppm	0.0010 ppm	0.0063 ppm	1.1232 ppm	0.0019 ppm
Concentration RSD	200.5 %	42.6 %	2.2 %	10.4 %	5.3 %	1.1 %	28.8 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	5.4410 ppm	0.0009 ppm	0.0004 ppm	14.2726 ppm	0.0040 ppm	0.0003 ppm	-0.0003 ppm
Concentration per Run 1	5.4701 ppm	0.0009 ppm	0.0004 ppm	14.0599 ppm	0.0048 ppm	0.0003 ppm	-0.0010 ppm
Concentration per Run 2	5.4348 ppm	0.0009 ppm	0.0005 ppm	14.2134 ppm	0.0036 ppm	-0.0001 ppm	0.0000 ppm
Concentration per Run 3	5.4181 ppm	0.0009 ppm	0.0001 ppm	14.5447 ppm	0.0034 ppm	0.0008 ppm	0.0002 ppm
Concentration RSD	0.5 %	3.3 %	55.7 %	1.7 %	18.8 %	142.6 %	236.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0014 ppm	9.0643 ppm	-0.0009 ppm	0.0801 ppm	0.0005 ppm	-0.0004 ppm	0.0003 ppm
Concentration per Run 1	0.0028 ppm	9.1353 ppm	-0.0010 ppm	0.0799 ppm	0.0005 ppm	-0.0002 ppm	0.0003 ppm
Concentration per Run 2	-0.0012 ppm	9.0589 ppm	-0.0006 ppm	0.0798 ppm	0.0005 ppm	-0.0005 ppm	0.0004 ppm
Concentration per Run 3	0.0026 ppm	8.9987 ppm	-0.0012 ppm	0.0807 ppm	0.0004 ppm	-0.0004 ppm	0.0001 ppm
Concentration RSD	159.5 %	0.8 %	31.7 %	0.6 %	4.7 %	50.0 %	46.9 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0118 ppm	104.9389 %	103.3355 %	101.4590 %	102.1513 %	101.6125 %	99.6648 %
Concentration per Run 1	0.0121 ppm	104.8631 %	102.7131 %	101.0071 %	102.7745 %	100.9648 %	99.3482 %
Concentration per Run 2	0.0119 ppm	104.4317 %	103.3501 %	102.0975 %	100.9583 %	101.6645 %	99.9398 %
Concentration per Run 3	0.0116 ppm	105.5218 %	103.9432 %	101.2726 %	102.7212 %	102.2083 %	99.7065 %
Concentration RSD	2.3 %	0.5 %	0.6 %	0.6 %	1.0 %	0.6 %	0.3 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: zWG2081457-7 WG2081457
 Analysis started at: 6/27/2025 7:28:53 PM
 Rack: 2
 Vial: 26
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0519 ppm	2.0397 ppm	0.1166 ppm	0.9755 ppm	2.0145 ppm	0.0493 ppm	21.8918 ppm
Concentration per Run 1	0.0525 ppm	2.0459 ppm	0.1175 ppm	0.9847 ppm	2.0138 ppm	0.0492 ppm	21.8954 ppm
Concentration per Run 2	0.0518 ppm	2.0332 ppm	0.1155 ppm	0.9690 ppm	2.0138 ppm	0.0495 ppm	21.9669 ppm
Concentration per Run 3	0.0515 ppm	2.0401 ppm	0.1169 ppm	0.9728 ppm	2.0159 ppm	0.0492 ppm	21.8130 ppm
Concentration RSD	1.0 %	0.3 %	0.9 %	0.8 %	0.1 %	0.4 %	0.4 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0469 ppm	0.4655 ppm	0.1983 ppm	0.2434 ppm	0.9957 ppm	11.6113 ppm	0.0024 ppm
Concentration per Run 1	0.0471 ppm	0.4698 ppm	0.1981 ppm	0.2447 ppm	0.9999 ppm	11.6139 ppm	0.0019 ppm
Concentration per Run 2	0.0466 ppm	0.4616 ppm	0.1981 ppm	0.2415 ppm	1.0004 ppm	11.6351 ppm	0.0024 ppm
Concentration per Run 3	0.0471 ppm	0.4651 ppm	0.1986 ppm	0.2440 ppm	0.9869 ppm	11.5849 ppm	0.0029 ppm
Concentration RSD	0.6 %	0.9 %	0.1 %	0.7 %	0.8 %	0.2 %	20.4 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	15.0120 ppm	0.4781 ppm	0.9246 ppm	24.4685 ppm	0.4848 ppm	0.5086 ppm	0.3846 ppm
Concentration per Run 1	15.0913 ppm	0.4792 ppm	0.9225 ppm	24.4336 ppm	0.4844 ppm	0.5135 ppm	0.3799 ppm
Concentration per Run 2	15.0205 ppm	0.4786 ppm	0.9232 ppm	24.4424 ppm	0.4845 ppm	0.5045 ppm	0.3815 ppm
Concentration per Run 3	14.9242 ppm	0.4765 ppm	0.9282 ppm	24.5295 ppm	0.4856 ppm	0.5079 ppm	0.3925 ppm
Concentration RSD	0.6 %	0.3 %	0.3 %	0.2 %	0.1 %	0.9 %	1.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.1175 ppm	6.7366 ppm	0.9255 ppm	1.0449 ppm	0.6539 ppm	0.1174 ppm	0.4855 ppm
Concentration per Run 1	0.1191 ppm	-0.0376 ppm	0.9266 ppm	1.0430 ppm	0.0000 ppm	0.1171 ppm	0.4856 ppm
Concentration per Run 2	0.1165 ppm	10.1038 ppm	0.9253 ppm	1.0446 ppm	0.9806 ppm	0.1170 ppm	0.4836 ppm
Concentration per Run 3	0.1168 ppm	10.1437 ppm	0.9247 ppm	1.0471 ppm	0.9812 ppm	0.1180 ppm	0.4871 ppm
Concentration RSD	1.2 %	87.1 %	0.1 %	0.2 %	86.6 %	0.5 %	0.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4889 ppm	101.8766 %	101.5095 %	96.6124 %	99.8184 %	100.2316 %	97.2267 %
Concentration per Run 1	0.4907 ppm	102.1659 %	101.4572 %	95.5293 %	100.3920 %	99.9839 %	96.8846 %
Concentration per Run 2	0.4874 ppm	101.6624 %	101.0783 %	97.3282 %	99.7082 %	99.9994 %	97.5289 %
Concentration per Run 3	0.4885 ppm	101.8015 %	101.9930 %	96.9795 %	99.3550 %	100.7117 %	97.2666 %
Concentration RSD	0.3 %	0.3 %	0.5 %	1.0 %	0.5 %	0.4 %	0.3 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: WG2081457-8 WG2081457
 Analysis started at: 6/27/2025 7:32:06 PM
 Rack: 2
 Vial: 27
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0515 ppm	2.0345 ppm	0.1164 ppm	0.9943 ppm	2.0057 ppm	0.0488 ppm	22.1951 ppm
Concentration per Run 1	0.0514 ppm	2.0402 ppm	0.1157 ppm	0.9925 ppm	2.0008 ppm	0.0488 ppm	22.1368 ppm
Concentration per Run 2	0.0515 ppm	2.0308 ppm	0.1173 ppm	0.9970 ppm	2.0092 ppm	0.0489 ppm	22.2853 ppm
Concentration per Run 3	0.0515 ppm	2.0327 ppm	0.1163 ppm	0.9934 ppm	2.0070 ppm	0.0489 ppm	22.1634 ppm
Concentration RSD	0.1 %	0.2 %	0.7 %	0.2 %	0.2 %	0.2 %	0.4 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0471 ppm	0.4677 ppm	0.1986 ppm	0.2437 ppm	0.9822 ppm	11.7063 ppm	0.0019 ppm
Concentration per Run 1	0.0471 ppm	0.4673 ppm	0.1982 ppm	0.2435 ppm	0.9797 ppm	11.5792 ppm	0.0024 ppm
Concentration per Run 2	0.0468 ppm	0.4650 ppm	0.1987 ppm	0.2440 ppm	0.9862 ppm	11.8268 ppm	0.0017 ppm
Concentration per Run 3	0.0474 ppm	0.4706 ppm	0.1989 ppm	0.2435 ppm	0.9806 ppm	11.7128 ppm	0.0017 ppm
Concentration RSD	0.7 %	0.6 %	0.2 %	0.1 %	0.4 %	1.1 %	20.9 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	15.2543 ppm	0.4761 ppm	0.9463 ppm	24.9126 ppm	0.4850 ppm	0.5126 ppm	0.3987 ppm
Concentration per Run 1	15.2867 ppm	0.4739 ppm	0.9426 ppm	24.5500 ppm	0.4842 ppm	0.5105 ppm	0.3958 ppm
Concentration per Run 2	15.1677 ppm	0.4784 ppm	0.9405 ppm	25.1566 ppm	0.4841 ppm	0.5135 ppm	0.3977 ppm
Concentration per Run 3	15.3084 ppm	0.4760 ppm	0.9556 ppm	25.0312 ppm	0.4868 ppm	0.5138 ppm	0.4027 ppm
Concentration RSD	0.5 %	0.5 %	0.9 %	1.3 %	0.3 %	0.4 %	0.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.1173 ppm	10.3557 ppm	0.9458 ppm	1.0489 ppm	0.9922 ppm	0.1181 ppm	0.4863 ppm
Concentration per Run 1	0.1165 ppm	10.3505 ppm	0.9398 ppm	1.0479 ppm	0.9919 ppm	0.1187 ppm	0.4860 ppm
Concentration per Run 2	0.1188 ppm	10.3472 ppm	0.9453 ppm	1.0487 ppm	0.9911 ppm	0.1177 ppm	0.4858 ppm
Concentration per Run 3	0.1167 ppm	10.3694 ppm	0.9523 ppm	1.0500 ppm	0.9937 ppm	0.1179 ppm	0.4872 ppm
Concentration RSD	1.1 %	0.1 %	0.7 %	0.1 %	0.1 %	0.4 %	0.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4910 ppm	101.2925 %	101.6773 %	96.4107 %	98.8040 %	99.9065 %	96.5354 %
Concentration per Run 1	0.4924 ppm	101.4914 %	101.8083 %	96.2023 %	98.8761 %	99.7917 %	96.3176 %
Concentration per Run 2	0.4870 ppm	101.8850 %	101.0918 %	96.6255 %	99.3318 %	99.3157 %	96.8425 %
Concentration per Run 3	0.4937 ppm	100.5011 %	102.1318 %	96.4044 %	98.2041 %	100.6121 %	96.4461 %
Concentration RSD	0.7 %	0.7 %	0.5 %	0.2 %	0.6 %	0.7 %	0.3 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: WG2081457-9 WG2081457
 Analysis started at: 6/27/2025 7:35:19 PM
 Rack: 2
 Vial: 28
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0558 ppm	2.1778 ppm	0.1171 ppm	0.9996 ppm	2.1643 ppm	0.0527 ppm	21.4918 ppm
Concentration per Run 1	0.0555 ppm	2.1723 ppm	0.1163 ppm	0.9980 ppm	2.1593 ppm	0.0525 ppm	21.4493 ppm
Concentration per Run 2	0.0559 ppm	2.1909 ppm	0.1177 ppm	0.9984 ppm	2.1710 ppm	0.0528 ppm	21.5397 ppm
Concentration per Run 3	0.0560 ppm	2.1702 ppm	0.1173 ppm	1.0023 ppm	2.1625 ppm	0.0529 ppm	21.4863 ppm
Concentration RSD	0.5 %	0.5 %	0.6 %	0.2 %	0.3 %	0.4 %	0.2 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0464 ppm	0.5064 ppm	0.2149 ppm	0.2624 ppm	1.0510 ppm	11.7226 ppm	0.0019 ppm
Concentration per Run 1	0.0461 ppm	0.5074 ppm	0.2137 ppm	0.2631 ppm	1.0458 ppm	11.6578 ppm	0.0020 ppm
Concentration per Run 2	0.0464 ppm	0.5059 ppm	0.2140 ppm	0.2627 ppm	1.0532 ppm	11.8571 ppm	0.0020 ppm
Concentration per Run 3	0.0466 ppm	0.5060 ppm	0.2168 ppm	0.2615 ppm	1.0539 ppm	11.6528 ppm	0.0018 ppm
Concentration RSD	0.5 %	0.2 %	0.8 %	0.3 %	0.4 %	1.0 %	6.0 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	15.0825 ppm	0.5130 ppm	0.9536 ppm	24.5231 ppm	0.5287 ppm	0.5089 ppm	0.3116 ppm
Concentration per Run 1	15.0143 ppm	0.5108 ppm	0.9479 ppm	24.3388 ppm	0.5262 ppm	0.5108 ppm	0.3071 ppm
Concentration per Run 2	15.1086 ppm	0.5138 ppm	0.9516 ppm	24.8838 ppm	0.5285 ppm	0.5103 ppm	0.3123 ppm
Concentration per Run 3	15.1245 ppm	0.5146 ppm	0.9614 ppm	24.3468 ppm	0.5313 ppm	0.5056 ppm	0.3154 ppm
Concentration RSD	0.4 %	0.4 %	0.7 %	1.3 %	0.5 %	0.6 %	1.4 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.1157 ppm	9.6294 ppm	0.9744 ppm	1.0464 ppm	0.9989 ppm	0.1175 ppm	0.5245 ppm
Concentration per Run 1	0.1172 ppm	9.6485 ppm	0.9743 ppm	1.0489 ppm	0.9946 ppm	0.1169 ppm	0.5251 ppm
Concentration per Run 2	0.1150 ppm	9.5905 ppm	0.9735 ppm	1.0467 ppm	0.9997 ppm	0.1184 ppm	0.5255 ppm
Concentration per Run 3	0.1150 ppm	9.6494 ppm	0.9754 ppm	1.0436 ppm	1.0024 ppm	0.1170 ppm	0.5228 ppm
Concentration RSD	1.1 %	0.4 %	0.1 %	0.3 %	0.4 %	0.7 %	0.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.5323 ppm	101.1187 %	102.6939 %	96.8395 %	98.4081 %	100.5718 %	97.1038 %
Concentration per Run 1	0.5298 ppm	102.0462 %	102.4404 %	96.6210 %	99.1905 %	100.1805 %	97.3269 %
Concentration per Run 2	0.5319 ppm	99.9804 %	103.0851 %	96.7134 %	97.0537 %	101.2611 %	96.8598 %
Concentration per Run 3	0.5353 ppm	101.3296 %	102.5563 %	97.1840 %	98.9799 %	100.2738 %	97.1246 %
Concentration RSD	0.5 %	1.0 %	0.3 %	0.3 %	1.2 %	0.6 %	0.2 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: WG2081457-10d5 WG2081457
 Analysis started at: 6/27/2025 7:38:33 PM
 Rack: 2
 Vial: 29
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0002 ppm	0.0114 ppm	-0.0007 ppm	-0.0006 ppm	0.0009 ppm	0.0000 ppm	0.3276 ppm
Concentration per Run 1	0.0003 ppm	0.0112 ppm	-0.0011 ppm	0.0005 ppm	0.0009 ppm	0.0000 ppm	0.3252 ppm
Concentration per Run 2	0.0003 ppm	0.0100 ppm	-0.0006 ppm	-0.0013 ppm	0.0009 ppm	0.0000 ppm	0.3283 ppm
Concentration per Run 3	0.0002 ppm	0.0129 ppm	-0.0004 ppm	-0.0010 ppm	0.0009 ppm	0.0000 ppm	0.3294 ppm
Concentration RSD	25.7 %	12.9 %	46.6 %	159.4 %	0.5 %	375.7 %	0.7 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	0.0001 ppm	0.0005 ppm	0.0003 ppm	0.0023 ppm	0.0368 ppm	0.0002 ppm
Concentration per Run 1	0.0000 ppm	-0.0001 ppm	0.0004 ppm	0.0003 ppm	0.0034 ppm	0.0338 ppm	-0.0003 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0005 ppm	0.0002 ppm	0.0021 ppm	0.0424 ppm	0.0007 ppm
Concentration per Run 3	0.0000 ppm	0.0006 ppm	0.0006 ppm	0.0003 ppm	0.0014 ppm	0.0343 ppm	0.0001 ppm
Concentration RSD	162.3 %	250.9 %	13.4 %	36.6 %	45.2 %	13.1 %	318.0 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.1432 ppm	0.0001 ppm	0.0069 ppm	0.3542 ppm	0.0001 ppm	0.0000 ppm	0.0235 ppm
Concentration per Run 1	0.1439 ppm	0.0001 ppm	0.0072 ppm	0.3505 ppm	0.0003 ppm	0.0005 ppm	0.0236 ppm
Concentration per Run 2	0.1426 ppm	0.0001 ppm	0.0068 ppm	0.3531 ppm	0.0000 ppm	-0.0004 ppm	0.0234 ppm
Concentration per Run 3	0.1432 ppm	0.0001 ppm	0.0067 ppm	0.3591 ppm	0.0002 ppm	-0.0003 ppm	0.0235 ppm
Concentration RSD	0.5 %	39.6 %	3.6 %	1.2 %	103.8 %	1,370.0 %	0.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0009 ppm	0.2245 ppm	0.0211 ppm	0.0021 ppm	0.0007 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 1	-0.0015 ppm	0.2252 ppm	0.0214 ppm	0.0021 ppm	0.0007 ppm	-0.0005 ppm	0.0000 ppm
Concentration per Run 2	-0.0020 ppm	0.2240 ppm	0.0222 ppm	0.0021 ppm	0.0007 ppm	0.0001 ppm	0.0002 ppm
Concentration per Run 3	0.0007 ppm	0.2244 ppm	0.0197 ppm	0.0021 ppm	0.0007 ppm	0.0005 ppm	0.0000 ppm
Concentration RSD	153.7 %	0.3 %	6.1 %	0.7 %	5.0 %	2,248.5 %	193.9 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0007 ppm	103.8159 %	102.4122 %	102.9186 %	103.5590 %	101.8304 %	101.1521 %
Concentration per Run 1	-0.0008 ppm	103.2880 %	102.3934 %	103.1468 %	102.9216 %	101.0505 %	101.1584 %
Concentration per Run 2	-0.0007 ppm	104.1607 %	102.5016 %	102.9037 %	104.4751 %	102.0893 %	101.2255 %
Concentration per Run 3	-0.0007 ppm	103.9989 %	102.3415 %	102.7053 %	103.2805 %	102.3514 %	101.0723 %
Concentration RSD	5.6 %	0.4 %	0.1 %	0.2 %	0.8 %	0.7 %	0.1 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2538382-01 WG2081457
 Analysis started at: 6/27/2025 7:41:47 PM
 Rack: 2
 Vial: 30
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0003 ppm	0.0235 ppm	-0.0001 ppm	0.0112 ppm	0.0362 ppm	0.0000 ppm	11.9788 ppm
Concentration per Run 1	0.0002 ppm	0.0242 ppm	0.0003 ppm	0.0111 ppm	0.0362 ppm	0.0001 ppm	11.8995 ppm
Concentration per Run 2	0.0005 ppm	0.0213 ppm	0.0000 ppm	0.0109 ppm	0.0365 ppm	0.0000 ppm	11.9881 ppm
Concentration per Run 3	0.0002 ppm	0.0249 ppm	-0.0006 ppm	0.0115 ppm	0.0360 ppm	0.0000 ppm	12.0489 ppm
Concentration RSD	51.2 %	8.1 %	646.1 %	2.5 %	0.8 %	35.9 %	0.6 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	-0.0004 ppm	0.0013 ppm	0.0006 ppm	0.0070 ppm	1.1150 ppm	0.0003 ppm
Concentration per Run 1	0.0000 ppm	-0.0006 ppm	0.0014 ppm	0.0005 ppm	0.0067 ppm	1.1134 ppm	0.0004 ppm
Concentration per Run 2	0.0000 ppm	-0.0005 ppm	0.0013 ppm	0.0007 ppm	0.0071 ppm	1.1230 ppm	0.0006 ppm
Concentration per Run 3	0.0001 ppm	-0.0002 ppm	0.0012 ppm	0.0006 ppm	0.0071 ppm	1.1086 ppm	0.0000 ppm
Concentration RSD	164.6 %	53.4 %	7.3 %	19.9 %	3.3 %	0.7 %	83.6 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	5.9089 ppm	0.0821 ppm	0.0019 ppm	8.1783 ppm	0.0011 ppm	0.0001 ppm	0.0031 ppm
Concentration per Run 1	5.9361 ppm	0.0817 ppm	0.0018 ppm	8.0793 ppm	0.0012 ppm	0.0002 ppm	0.0036 ppm
Concentration per Run 2	5.9201 ppm	0.0822 ppm	0.0020 ppm	8.2346 ppm	0.0015 ppm	0.0002 ppm	0.0031 ppm
Concentration per Run 3	5.8704 ppm	0.0822 ppm	0.0019 ppm	8.2210 ppm	0.0007 ppm	0.0000 ppm	0.0026 ppm
Concentration RSD	0.6 %	0.3 %	4.5 %	1.1 %	35.8 %	90.5 %	16.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0004 ppm	5.5280 ppm	0.0014 ppm	0.0689 ppm	0.0003 ppm	-0.0002 ppm	0.0001 ppm
Concentration per Run 1	0.0007 ppm	5.5264 ppm	0.0009 ppm	0.0689 ppm	0.0002 ppm	0.0002 ppm	0.0000 ppm
Concentration per Run 2	0.0017 ppm	5.5361 ppm	0.0015 ppm	0.0693 ppm	0.0005 ppm	-0.0008 ppm	0.0002 ppm
Concentration per Run 3	-0.0012 ppm	5.5217 ppm	0.0018 ppm	0.0685 ppm	0.0003 ppm	0.0002 ppm	0.0001 ppm
Concentration RSD	376.0 %	0.1 %	33.5 %	0.6 %	44.5 %	354.0 %	76.8 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0014 ppm	104.3207 %	103.1853 %	101.3617 %	102.6997 %	102.0692 %	100.1603 %
Concentration per Run 1	0.0015 ppm	103.5544 %	103.5291 %	101.3123 %	101.9434 %	102.2675 %	100.0905 %
Concentration per Run 2	0.0014 ppm	105.1091 %	103.0657 %	101.1045 %	103.1027 %	102.2801 %	99.9539 %
Concentration per Run 3	0.0013 ppm	104.2985 %	102.9611 %	101.6682 %	103.0530 %	101.6600 %	100.4366 %
Concentration RSD	9.9 %	0.7 %	0.3 %	0.3 %	0.6 %	0.3 %	0.2 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2538382-02 WG2081457
 Analysis started at: 6/27/2025 7:45:00 PM
 Rack: 2
 Vial: 31
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0001 ppm	0.0047 ppm	-0.0001 ppm	0.0163 ppm	0.0303 ppm	0.0000 ppm	11.9562 ppm
Concentration per Run 1	0.0002 ppm	0.0070 ppm	-0.0007 ppm	0.0164 ppm	0.0303 ppm	0.0000 ppm	11.9806 ppm
Concentration per Run 2	-0.0002 ppm	0.0057 ppm	0.0004 ppm	0.0167 ppm	0.0302 ppm	0.0000 ppm	11.9178 ppm
Concentration per Run 3	0.0004 ppm	0.0015 ppm	0.0001 ppm	0.0159 ppm	0.0304 ppm	0.0000 ppm	11.9701 ppm
Concentration RSD	200.3 %	61.5 %	853.6 %	2.3 %	0.3 %	114.5 %	0.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0001 ppm	0.0001 ppm	0.0020 ppm	0.0005 ppm	0.0027 ppm	1.2326 ppm	0.0019 ppm
Concentration per Run 1	-0.0001 ppm	-0.0002 ppm	0.0019 ppm	0.0007 ppm	0.0032 ppm	1.2241 ppm	0.0021 ppm
Concentration per Run 2	-0.0001 ppm	0.0000 ppm	0.0020 ppm	0.0005 ppm	0.0020 ppm	1.2233 ppm	0.0014 ppm
Concentration per Run 3	0.0000 ppm	0.0005 ppm	0.0021 ppm	0.0003 ppm	0.0030 ppm	1.2504 ppm	0.0022 ppm
Concentration RSD	88.4 %	333.5 %	4.2 %	36.4 %	24.1 %	1.3 %	22.4 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	5.8555 ppm	0.0007 ppm	0.0009 ppm	16.8828 ppm	0.0008 ppm	0.0000 ppm	0.0016 ppm
Concentration per Run 1	5.8346 ppm	0.0007 ppm	0.0008 ppm	16.6575 ppm	0.0008 ppm	0.0005 ppm	0.0019 ppm
Concentration per Run 2	5.8666 ppm	0.0006 ppm	0.0009 ppm	17.0186 ppm	0.0013 ppm	-0.0005 ppm	0.0024 ppm
Concentration per Run 3	5.8654 ppm	0.0007 ppm	0.0011 ppm	16.9722 ppm	0.0003 ppm	-0.0001 ppm	0.0005 ppm
Concentration RSD	0.3 %	6.9 %	15.3 %	1.2 %	60.7 %	3,297.3 %	63.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0008 ppm	7.7575 ppm	0.0002 ppm	0.0698 ppm	0.0005 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 1	-0.0001 ppm	7.7495 ppm	0.0002 ppm	0.0696 ppm	0.0005 ppm	0.0003 ppm	0.0002 ppm
Concentration per Run 2	-0.0015 ppm	7.7849 ppm	0.0001 ppm	0.0697 ppm	0.0005 ppm	0.0007 ppm	0.0002 ppm
Concentration per Run 3	-0.0010 ppm	7.7382 ppm	0.0003 ppm	0.0701 ppm	0.0005 ppm	-0.0007 ppm	0.0001 ppm
Concentration RSD	84.8 %	0.3 %	64.4 %	0.4 %	4.1 %	700.6 %	54.9 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0008 ppm	102.9562 %	104.2428 %	100.5669 %	100.8430 %	102.5195 %	99.0739 %
Concentration per Run 1	0.0008 ppm	104.0913 %	104.4945 %	100.3167 %	101.7971 %	102.6849 %	98.7980 %
Concentration per Run 2	0.0006 ppm	102.3528 %	103.9978 %	100.2619 %	100.1404 %	102.4442 %	99.0062 %
Concentration per Run 3	0.0009 ppm	102.4245 %	104.2362 %	101.1222 %	100.5914 %	102.4292 %	99.4175 %
Concentration RSD	23.8 %	1.0 %	0.2 %	0.5 %	0.8 %	0.1 %	0.3 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2538382-03 WG2081457
 Analysis started at: 6/27/2025 7:48:13 PM
 Rack: 2
 Vial: 32
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0001 ppm	0.0057 ppm	0.0002 ppm	0.0190 ppm	0.0463 ppm	0.0000 ppm	14.7867 ppm
Concentration per Run 1	0.0000 ppm	0.0077 ppm	-0.0011 ppm	0.0186 ppm	0.0463 ppm	0.0000 ppm	14.6905 ppm
Concentration per Run 2	0.0000 ppm	0.0050 ppm	0.0010 ppm	0.0192 ppm	0.0461 ppm	0.0000 ppm	14.8777 ppm
Concentration per Run 3	0.0004 ppm	0.0045 ppm	0.0008 ppm	0.0192 ppm	0.0464 ppm	0.0000 ppm	14.7918 ppm
Concentration RSD	149.0 %	29.9 %	474.7 %	1.9 %	0.3 %	17.6 %	0.6 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	-0.0003 ppm	0.0014 ppm	0.0008 ppm	0.0027 ppm	1.3032 ppm	0.0019 ppm
Concentration per Run 1	0.0000 ppm	-0.0003 ppm	0.0014 ppm	0.0006 ppm	0.0033 ppm	1.3140 ppm	0.0021 ppm
Concentration per Run 2	0.0000 ppm	-0.0003 ppm	0.0014 ppm	0.0011 ppm	0.0028 ppm	1.2947 ppm	0.0020 ppm
Concentration per Run 3	0.0000 ppm	-0.0004 ppm	0.0015 ppm	0.0006 ppm	0.0019 ppm	1.3008 ppm	0.0015 ppm
Concentration RSD	195.1 %	13.0 %	5.9 %	34.8 %	26.4 %	0.8 %	17.7 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	7.1083 ppm	0.0003 ppm	0.0004 ppm	19.0950 ppm	0.0003 ppm	-0.0001 ppm	0.0005 ppm
Concentration per Run 1	7.1505 ppm	0.0003 ppm	0.0005 ppm	19.1433 ppm	0.0006 ppm	-0.0007 ppm	-0.0003 ppm
Concentration per Run 2	7.0884 ppm	0.0003 ppm	0.0007 ppm	19.1433 ppm	0.0003 ppm	0.0004 ppm	0.0012 ppm
Concentration per Run 3	7.0861 ppm	0.0003 ppm	0.0001 ppm	18.9985 ppm	0.0000 ppm	0.0000 ppm	0.0007 ppm
Concentration RSD	0.5 %	13.6 %	69.8 %	0.4 %	89.3 %	664.9 %	138.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0003 ppm	8.9492 ppm	-0.0004 ppm	0.0912 ppm	0.0003 ppm	0.0002 ppm	0.0001 ppm
Concentration per Run 1	-0.0010 ppm	8.9906 ppm	-0.0005 ppm	0.0912 ppm	0.0001 ppm	0.0002 ppm	0.0001 ppm
Concentration per Run 2	0.0009 ppm	8.9420 ppm	-0.0007 ppm	0.0909 ppm	0.0004 ppm	0.0004 ppm	0.0000 ppm
Concentration per Run 3	0.0009 ppm	8.9150 ppm	0.0001 ppm	0.0915 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm
Concentration RSD	380.2 %	0.4 %	111.5 %	0.3 %	62.3 %	96.4 %	133.2 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0009 ppm	103.2912 %	103.6218 %	99.6027 %	100.9203 %	102.3979 %	98.4206 %
Concentration per Run 1	0.0008 ppm	103.5180 %	103.9155 %	99.7871 %	101.4247 %	102.3068 %	98.6015 %
Concentration per Run 2	0.0008 ppm	103.2384 %	103.5513 %	99.4946 %	100.4593 %	102.4918 %	98.3559 %
Concentration per Run 3	0.0009 ppm	103.1172 %	103.3985 %	99.5264 %	100.8769 %	102.3951 %	98.3045 %
Concentration RSD	1.9 %	0.2 %	0.3 %	0.2 %	0.5 %	0.1 %	0.2 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: xL2538382-04 WG2081457
 Analysis started at: 6/27/2025 7:51:27 PM
 Rack: 2
 Vial: 33
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0002 ppm	0.0076 ppm	-1.2984 ppm	0.0148 ppm	0.0222 ppm	0.0000 ppm	30.4131 ppm
Concentration per Run 1	0.0002 ppm	0.0071 ppm	-3.8954 ppm	0.0161 ppm	0.0224 ppm	0.0000 ppm	30.4465 ppm
Concentration per Run 2	0.0001 ppm	0.0062 ppm	0.0005 ppm	0.0144 ppm	0.0221 ppm	0.0000 ppm	30.3834 ppm
Concentration per Run 3	0.0004 ppm	0.0094 ppm	-0.0003 ppm	0.0140 ppm	0.0222 ppm	0.0000 ppm	30.4093 ppm
Concentration RSD	67.6 %	21.6 %	173.2 %	7.3 %	0.6 %	12.9 %	0.1 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	-0.0002 ppm	-0.0002 ppm	0.0006 ppm	0.0012 ppm	0.0044 ppm	1.2099 ppm	0.0000 ppm
Concentration per Run 1	-0.0002 ppm	-0.0003 ppm	0.0006 ppm	0.0013 ppm	0.0050 ppm	1.2272 ppm	0.0000 ppm
Concentration per Run 2	-0.0002 ppm	-0.0004 ppm	0.0008 ppm	0.0011 ppm	0.0035 ppm	1.1912 ppm	0.0000 ppm
Concentration per Run 3	-0.0002 ppm	0.0000 ppm	0.0006 ppm	0.0010 ppm	0.0046 ppm	1.2112 ppm	-0.0002 ppm
Concentration RSD	10.6 %	87.3 %	16.8 %	13.9 %	17.4 %	1.5 %	386.3 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	7.1857 ppm	0.0003 ppm	0.0006 ppm	2.2642 ppm	0.0001 ppm	54.2750 ppm	0.0006 ppm
Concentration per Run 1	7.2076 ppm	0.0003 ppm	0.0005 ppm	2.2617 ppm	0.0001 ppm	162.8245 ppm	0.0010 ppm
Concentration per Run 2	7.1916 ppm	0.0002 ppm	0.0006 ppm	2.2648 ppm	0.0003 ppm	0.0008 ppm	0.0007 ppm
Concentration per Run 3	7.1580 ppm	0.0003 ppm	0.0006 ppm	2.2662 ppm	-0.0001 ppm	-0.0003 ppm	0.0001 ppm
Concentration RSD	0.4 %	16.8 %	9.2 %	0.1 %	236.2 %	173.2 %	72.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.4422 ppm	2.8507 ppm	-0.0003 ppm	0.1341 ppm	0.0004 ppm	13.1944 ppm	0.0004 ppm
Concentration per Run 1	1.3259 ppm	2.8644 ppm	0.0001 ppm	0.1341 ppm	0.0002 ppm	39.5833 ppm	0.0002 ppm
Concentration per Run 2	0.0010 ppm	2.8449 ppm	0.0000 ppm	0.1337 ppm	0.0003 ppm	-0.0001 ppm	0.0006 ppm
Concentration per Run 3	-0.0003 ppm	2.8429 ppm	-0.0009 ppm	0.1345 ppm	0.0008 ppm	0.0000 ppm	0.0003 ppm
Concentration RSD	173.1 %	0.4 %	206.8 %	0.3 %	77.5 %	173.2 %	46.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0001 ppm	102.6252 %	102.7980 %	66.2652 %	101.4202 %	102.3545 %	99.3635 %
Concentration per Run 1	0.0001 ppm	102.5916 %	103.3476 %	-0.0002 %	100.8663 %	102.9518 %	100.0449 %
Concentration per Run 2	0.0001 ppm	102.1906 %	102.8130 %	99.6807 %	101.2455 %	102.2633 %	99.2541 %
Concentration per Run 3	0.0002 ppm	103.0934 %	102.2334 %	99.1152 %	102.1488 %	101.8484 %	98.7915 %
Concentration RSD	45.5 %	0.4 %	0.5 %	86.6 %	0.6 %	0.5 %	0.6 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: xWG2081457-7 WG2081457
 Analysis started at: 6/27/2025 7:54:41 PM
 Rack: 2
 Vial: 26
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	∞ ppm	2.0331 ppm	0.1165 ppm	∞ [SIC 50]	2.0038 ppm	0.0487 ppm	21.6588 ppm
Concentration per Run 1	∞ ppm	2.0369 ppm	0.1167 ppm	∞ ppm	2.0015 ppm	0.0486 ppm	21.7194 ppm
Concentration per Run 2	0.0514 ppm	2.0300 ppm	0.1165 ppm	0.9759 ppm	2.0003 ppm	0.0486 ppm	21.6531 ppm
Concentration per Run 3	0.0515 ppm	2.0325 ppm	0.1163 ppm	0.9682 ppm	2.0097 ppm	0.0489 ppm	21.6038 ppm
Concentration RSD		0.2 %	0.1 %		0.3 %	0.3 %	0.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	∞ ppm	∞ ppm	∞ ppm	0.2434 ppm	0.9857 ppm	11.5571 ppm	0.0019 ppm
Concentration per Run 1	∞ ppm	∞ ppm	∞ ppm	0.2481 ppm	0.9870 ppm	11.4408 ppm	0.0022 ppm
Concentration per Run 2	0.0466 ppm	0.4632 ppm	0.1968 ppm	0.2408 ppm	0.9843 ppm	11.6231 ppm	0.0017 ppm
Concentration per Run 3	0.0460 ppm	0.4574 ppm	0.1972 ppm	0.2412 ppm	0.9858 ppm	11.6075 ppm	0.0017 ppm
Concentration RSD				1.7 %	0.1 %	0.9 %	14.1 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	∞ [SIC 700]	0.4738 ppm	∞ [SIC 20]	24.3897 ppm	∞ [SIC 20]	0.5049 ppm	0.2603 ppm
Concentration per Run 1	∞ ppm	0.4761 ppm	∞ ppm	24.2799 ppm	∞ ppm	0.5078 ppm	0.0090 ppm
Concentration per Run 2	14.9015 ppm	0.4742 ppm	0.9202 ppm	24.4446 ppm	0.4805 ppm	0.5017 ppm	0.3840 ppm
Concentration per Run 3	14.8445 ppm	0.4711 ppm	0.9184 ppm	24.4447 ppm	0.4798 ppm	0.5053 ppm	0.3880 ppm
Concentration RSD		0.5 %		0.4 %		0.6 %	83.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.1177 ppm	∞ ppm	∞ [SIC 20]	1.0366 ppm	∞ ppm	0.1165 ppm	0.4818 ppm
Concentration per Run 1	0.1186 ppm	∞ ppm	∞ ppm	1.0364 ppm	∞ ppm	0.1167 ppm	0.4855 ppm
Concentration per Run 2	0.1163 ppm	10.0989 ppm	0.9155 ppm	1.0337 ppm	0.9758 ppm	0.1174 ppm	0.4793 ppm
Concentration per Run 3	0.1181 ppm	10.0530 ppm	0.9164 ppm	1.0396 ppm	0.9778 ppm	0.1155 ppm	0.4807 ppm
Concentration RSD	1.0 %			0.3 %		0.8 %	0.7 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	∞ [SIC 50]	68.0909 %		102.2338 %	97.5486 %	99.6390 %	100.7873 %
Concentration per Run 1	∞ ppm	0.0000 %		102.6852 %	96.8761 %	98.8757 %	101.7139 %
Concentration per Run 2	0.4857 ppm	102.1108 %	101.8703 %	98.0473 %	100.2428 %	100.1410 %	97.9718 %
Concentration per Run 3	0.4822 ppm	102.1618 %	102.1457 %	97.7224 %	99.7986 %	100.5071 %	97.8973 %
Concentration RSD		86.6 %	0.4 %	0.6 %	0.7 %	0.8 %	0.2 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: CCV
 Analysis started at: 6/27/2025 8:01:46 PM
 Rack: 0
 Vial: 3
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.5180 ppm	0.4750 ppm	0.4621 ppm	0.4811 ppm	0.4876 ppm	0.4903 ppm	0.4815 ppm
Concentration per Run 1	0.5193 ppm	0.4695 ppm	0.4632 ppm	0.4833 ppm	0.4877 ppm	0.4930 ppm	0.4803 ppm
Concentration per Run 2	0.5185 ppm	0.4773 ppm	0.4607 ppm	0.4799 ppm	0.4868 ppm	0.4874 ppm	0.4773 ppm
Concentration per Run 3	0.5162 ppm	0.4784 ppm	0.4623 ppm	0.4802 ppm	0.4884 ppm	0.4906 ppm	0.4868 ppm
Recovery Percentage 1	103.600 %	95.008 %	92.413 %	96.227 %	97.528 %	98.063 %	96.290 %
Concentration RSD	0.3 %	1.0 %	0.3 %	0.4 %	0.2 %	0.6 %	1.0 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.4598 ppm	0.4883 ppm	0.5013 ppm	0.4910 ppm	0.4929 ppm	5.0596 ppm	0.5094 ppm
Concentration per Run 1	0.4613 ppm	0.4901 ppm	0.5043 ppm	0.4920 ppm	0.4943 ppm	5.0756 ppm	0.5104 ppm
Concentration per Run 2	0.4593 ppm	0.4871 ppm	0.5001 ppm	0.4894 ppm	0.4899 ppm	5.0156 ppm	0.5045 ppm
Concentration per Run 3	0.4587 ppm	0.4875 ppm	0.4995 ppm	0.4916 ppm	0.4946 ppm	5.0875 ppm	0.5134 ppm
Recovery Percentage 1	91.951 %	97.652 %	100.261 %	98.201 %	98.590 %	101.191 %	101.881 %
Concentration RSD	0.3 %	0.3 %	0.5 %	0.3 %	0.5 %	0.8 %	0.9 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.5006 ppm	0.4946 ppm	0.4846 ppm	10.0294 ppm	0.4993 ppm	0.4890 ppm	0.4826 ppm
Concentration per Run 1	0.5009 ppm	0.4923 ppm	0.4856 ppm	10.0560 ppm	0.5038 ppm	0.4875 ppm	0.4819 ppm
Concentration per Run 2	0.5035 ppm	0.4930 ppm	0.4842 ppm	10.0001 ppm	0.4975 ppm	0.4906 ppm	0.4818 ppm
Concentration per Run 3	0.4976 ppm	0.4983 ppm	0.4840 ppm	10.0320 ppm	0.4968 ppm	0.4888 ppm	0.4841 ppm
Recovery Percentage 1	100.129 %	98.911 %	96.920 %	100.294 %	99.867 %	97.797 %	96.520 %
Concentration RSD	0.6 %	0.7 %	0.2 %	0.3 %	0.8 %	0.3 %	0.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.4682 ppm	5.2233 ppm	0.4970 ppm	0.4920 ppm	0.4981 ppm	0.4957 ppm	0.4822 ppm
Concentration per Run 1	0.4709 ppm	5.2236 ppm	0.4988 ppm	0.4915 ppm	0.4990 ppm	0.4975 ppm	0.4847 ppm
Concentration per Run 2	0.4683 ppm	5.2393 ppm	0.4957 ppm	0.4918 ppm	0.4986 ppm	0.4939 ppm	0.4802 ppm
Concentration per Run 3	0.4654 ppm	5.2069 ppm	0.4964 ppm	0.4926 ppm	0.4966 ppm	0.4956 ppm	0.4819 ppm
Recovery Percentage 1	93.638 %	99.491 %	99.393 %	98.396 %	99.612 %	99.134 %	96.448 %
Concentration RSD	0.6 %	0.3 %	0.3 %	0.1 %	0.3 %	0.4 %	0.5 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4860 ppm	102.6425 %	101.8250 %	101.1057 %	100.3248 %	100.6687 %	99.6251 %
Concentration per Run 1	0.4900 ppm	102.7938 %	101.5437 %	101.5676 %	100.2107 %	100.1722 %	100.2720 %
Concentration per Run 2	0.4832 ppm	102.7542 %	102.7380 %	100.5229 %	100.7041 %	101.2016 %	98.9418 %
Concentration per Run 3	0.4847 ppm	102.3794 %	101.1935 %	101.2266 %	100.0594 %	100.6323 %	99.6615 %
Recovery Percentage 1	97.193 %						
Concentration RSD	0.7 %	0.2 %	0.8 %	0.5 %	0.3 %	0.5 %	0.7 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: CCB
 Analysis started at: 6/27/2025 8:05:06 PM
 Rack: 0
 Vial: 4
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0004 ppm	0.0080 ppm	0.0005 ppm	0.0004 ppm	0.0000 ppm	0.0000 ppm	-0.0041 ppm
Concentration per Run 1	0.0005 ppm	0.0079 ppm	0.0010 ppm	-0.0005 ppm	-0.0001 ppm	0.0000 ppm	-0.0052 ppm
Concentration per Run 2	0.0003 ppm	0.0085 ppm	0.0002 ppm	0.0009 ppm	0.0000 ppm	0.0000 ppm	-0.0045 ppm
Concentration per Run 3	0.0004 ppm	0.0077 ppm	0.0004 ppm	0.0007 ppm	-0.0001 ppm	0.0000 ppm	-0.0025 ppm
Recovery Percentage 1	6.207 %	8.022 %	10.476 %	1.198 %	-0.464 %	0.776 %	-4.071 %
Concentration RSD	22.5 %	5.7 %	82.0 %	208.2 %	83.3 %	14.4 %	33.7 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0001 ppm	-0.0001 ppm	0.0004 ppm	0.0004 ppm	0.0002 ppm	0.0117 ppm	-0.0003 ppm
Concentration per Run 1	0.0001 ppm	-0.0004 ppm	0.0004 ppm	0.0004 ppm	0.0009 ppm	0.0144 ppm	-0.0010 ppm
Concentration per Run 2	0.0001 ppm	-0.0001 ppm	0.0003 ppm	0.0002 ppm	-0.0004 ppm	0.0096 ppm	0.0003 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0004 ppm	0.0003 ppm	0.0112 ppm	-0.0001 ppm
Recovery Percentage 1	1.629 %	-0.604 %	3.782 %	3.591 %	0.485 %	0.470 %	-5.334 %
Concentration RSD	92.3 %	231.5 %	15.7 %	37.0 %	264.2 %	20.8 %	231.6 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	-0.0006 ppm	0.0001 ppm	0.0027 ppm	0.0060 ppm	-0.0001 ppm	-0.0001 ppm	0.0018 ppm
Concentration per Run 1	-0.0016 ppm	0.0001 ppm	0.0028 ppm	0.0063 ppm	0.0002 ppm	-0.0008 ppm	0.0025 ppm
Concentration per Run 2	0.0009 ppm	0.0001 ppm	0.0024 ppm	0.0072 ppm	0.0000 ppm	0.0008 ppm	0.0001 ppm
Concentration per Run 3	-0.0012 ppm	0.0000 ppm	0.0028 ppm	0.0044 ppm	-0.0004 ppm	-0.0002 ppm	0.0028 ppm
Recovery Percentage 1	-0.614 %	0.634 %	5.377 %	0.300 %	-0.295 %	-0.540 %	3.580 %
Concentration RSD	211.9 %	70.1 %	8.0 %	24.1 %	433.8 %	1,497.1 %	82.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0004 ppm	0.0017 ppm	0.0014 ppm	0.0001 ppm	0.0006 ppm	-0.0006 ppm	0.0001 ppm
Concentration per Run 1	-0.0005 ppm	0.0022 ppm	0.0011 ppm	0.0001 ppm	0.0007 ppm	-0.0006 ppm	0.0001 ppm
Concentration per Run 2	-0.0003 ppm	-0.0004 ppm	0.0017 ppm	0.0000 ppm	0.0006 ppm	-0.0005 ppm	0.0002 ppm
Concentration per Run 3	-0.0005 ppm	0.0034 ppm	0.0014 ppm	0.0001 ppm	0.0004 ppm	-0.0007 ppm	0.0001 ppm
Recovery Percentage 1	-4.152 %	0.341 %	2.840 %	0.563 %	5.664 %	-2.993 %	1.272 %
Concentration RSD	19.9 %	114.4 %	22.7 %	88.9 %	26.8 %	16.3 %	66.6 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0012 ppm	102.9794 %	102.2660 %	100.9855 %	103.2007 %	102.6584 %	100.4164 %
Concentration per Run 1	-0.0012 ppm	102.1348 %	102.8390 %	101.0639 %	102.2305 %	103.0115 %	100.4147 %
Concentration per Run 2	-0.0011 ppm	103.1119 %	102.2938 %	100.9306 %	103.6148 %	103.0365 %	100.5667 %
Concentration per Run 3	-0.0012 ppm	103.6914 %	101.6652 %	100.9620 %	103.7567 %	101.9271 %	100.2679 %
Recovery Percentage 1	-23.362 %						
Concentration RSD	6.0 %	0.8 %	0.6 %	0.1 %	0.8 %	0.6 %	0.1 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2538382-05 WG2081457
 Analysis started at: 6/27/2025 8:11:29 PM
 Rack: 2
 Vial: 34
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0001 ppm	0.0115 ppm	0.0004 ppm	0.0176 ppm	0.0393 ppm	0.0000 ppm	6.6042 ppm
Concentration per Run 1	0.0002 ppm	0.0103 ppm	0.0006 ppm	0.0170 ppm	0.0390 ppm	0.0000 ppm	6.6144 ppm
Concentration per Run 2	-0.0001 ppm	0.0094 ppm	0.0011 ppm	0.0185 ppm	0.0395 ppm	0.0001 ppm	6.5609 ppm
Concentration per Run 3	0.0001 ppm	0.0147 ppm	-0.0006 ppm	0.0175 ppm	0.0394 ppm	0.0000 ppm	6.6373 ppm
Concentration RSD	179.9 %	24.6 %	247.0 %	4.3 %	0.7 %	87.0 %	0.6 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0001 ppm	0.0000 ppm	0.0008 ppm	0.0007 ppm	0.0072 ppm	1.0024 ppm	-0.0004 ppm
Concentration per Run 1	0.0000 ppm	0.0002 ppm	0.0007 ppm	0.0007 ppm	0.0069 ppm	0.9976 ppm	-0.0006 ppm
Concentration per Run 2	0.0001 ppm	-0.0002 ppm	0.0010 ppm	0.0004 ppm	0.0082 ppm	1.0069 ppm	-0.0006 ppm
Concentration per Run 3	0.0001 ppm	0.0000 ppm	0.0007 ppm	0.0010 ppm	0.0066 ppm	1.0028 ppm	-0.0001 ppm
Concentration RSD	72.4 %	747.3 %	22.1 %	35.8 %	11.8 %	0.5 %	62.8 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	2.6064 ppm	0.0166 ppm	0.0008 ppm	39.2881 ppm	0.0010 ppm	-0.0004 ppm	0.0015 ppm
Concentration per Run 1	2.6144 ppm	0.0166 ppm	0.0008 ppm	38.7685 ppm	0.0004 ppm	-0.0005 ppm	0.0006 ppm
Concentration per Run 2	2.6024 ppm	0.0165 ppm	0.0011 ppm	39.5227 ppm	0.0018 ppm	0.0003 ppm	0.0023 ppm
Concentration per Run 3	2.6026 ppm	0.0166 ppm	0.0007 ppm	39.5731 ppm	0.0008 ppm	-0.0009 ppm	0.0016 ppm
Concentration RSD	0.3 %	0.5 %	22.3 %	1.1 %	73.0 %	171.5 %	55.5 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0002 ppm	5.0494 ppm	-0.0006 ppm	0.0328 ppm	0.0004 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 1	-0.0007 ppm	5.0976 ppm	-0.0008 ppm	0.0326 ppm	0.0004 ppm	-0.0005 ppm	-0.0001 ppm
Concentration per Run 2	0.0007 ppm	5.0256 ppm	0.0003 ppm	0.0331 ppm	0.0003 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 3	-0.0007 ppm	5.0250 ppm	-0.0013 ppm	0.0327 ppm	0.0003 ppm	0.0007 ppm	0.0001 ppm
Concentration RSD	337.9 %	0.8 %	132.4 %	0.7 %	17.2 %	972.9 %	233.7 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0015 ppm	103.2410 %	102.5203 %	99.7883 %	100.8454 %	101.1079 %	98.9307 %
Concentration per Run 1	0.0016 ppm	103.1454 %	101.8899 %	99.1553 %	101.2575 %	100.1433 %	98.3002 %
Concentration per Run 2	0.0016 ppm	103.1271 %	102.8332 %	100.2174 %	100.3352 %	101.2825 %	99.6068 %
Concentration per Run 3	0.0014 ppm	103.4505 %	102.8378 %	99.9923 %	100.9433 %	101.8978 %	98.8850 %
Concentration RSD	4.1 %	0.2 %	0.5 %	0.6 %	0.5 %	0.9 %	0.7 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2538382-07 WG2081457
 Analysis started at: 6/27/2025 8:14:48 PM
 Rack: 2
 Vial: 35
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0008 ppm	0.0117 ppm	0.0002 ppm	0.0169 ppm	0.0406 ppm	0.0000 ppm	6.8253 ppm
Concentration per Run 1	0.0006 ppm	0.0146 ppm	0.0006 ppm	0.0178 ppm	0.0407 ppm	0.0000 ppm	6.8429 ppm
Concentration per Run 2	0.0008 ppm	0.0144 ppm	-0.0006 ppm	0.0165 ppm	0.0408 ppm	0.0000 ppm	6.8188 ppm
Concentration per Run 3	0.0008 ppm	0.0062 ppm	0.0005 ppm	0.0163 ppm	0.0404 ppm	0.0000 ppm	6.8142 ppm
Concentration RSD	15.7 %	40.7 %	368.2 %	4.9 %	0.6 %	75.4 %	0.2 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	-0.0001 ppm	0.0008 ppm	0.0010 ppm	0.0052 ppm	1.0528 ppm	-0.0006 ppm
Concentration per Run 1	0.0000 ppm	-0.0002 ppm	0.0006 ppm	0.0010 ppm	0.0047 ppm	1.0522 ppm	-0.0005 ppm
Concentration per Run 2	0.0000 ppm	-0.0003 ppm	0.0008 ppm	0.0010 ppm	0.0066 ppm	1.0515 ppm	-0.0009 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0011 ppm	0.0009 ppm	0.0044 ppm	1.0547 ppm	-0.0006 ppm
Concentration RSD	68.1 %	148.8 %	28.1 %	10.1 %	23.7 %	0.2 %	27.9 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	2.6658 ppm	0.0201 ppm	0.0005 ppm	40.3026 ppm	0.0003 ppm	0.0000 ppm	0.0016 ppm
Concentration per Run 1	2.6567 ppm	0.0202 ppm	0.0004 ppm	40.3066 ppm	0.0010 ppm	-0.0003 ppm	0.0019 ppm
Concentration per Run 2	2.6608 ppm	0.0202 ppm	0.0011 ppm	40.3603 ppm	-0.0009 ppm	-0.0002 ppm	0.0020 ppm
Concentration per Run 3	2.6800 ppm	0.0200 ppm	0.0001 ppm	40.2410 ppm	0.0009 ppm	0.0004 ppm	0.0008 ppm
Concentration RSD	0.5 %	0.6 %	90.7 %	0.1 %	338.2 %	1,167.7 %	44.8 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0014 ppm	5.1375 ppm	-0.0003 ppm	0.0341 ppm	0.0004 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 1	-0.0012 ppm	5.1369 ppm	0.0004 ppm	0.0341 ppm	0.0004 ppm	-0.0006 ppm	0.0001 ppm
Concentration per Run 2	-0.0020 ppm	5.1300 ppm	-0.0004 ppm	0.0342 ppm	0.0002 ppm	0.0007 ppm	0.0001 ppm
Concentration per Run 3	-0.0010 ppm	5.1455 ppm	-0.0008 ppm	0.0338 ppm	0.0006 ppm	0.0001 ppm	0.0002 ppm
Concentration RSD	39.1 %	0.2 %	219.6 %	0.6 %	43.0 %	802.0 %	48.8 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0014 ppm	101.4709 %	101.2730 %	98.1163 %	99.0911 %	100.3495 %	97.2062 %
Concentration per Run 1	0.0015 ppm	102.2951 %	101.2978 %	98.2790 %	99.7273 %	100.7209 %	97.1906 %
Concentration per Run 2	0.0014 ppm	100.9503 %	101.4494 %	98.0826 %	98.4124 %	100.7183 %	97.3989 %
Concentration per Run 3	0.0013 ppm	101.1673 %	101.0716 %	97.9872 %	99.1337 %	99.6095 %	97.0291 %
Concentration RSD	9.3 %	0.7 %	0.2 %	0.2 %	0.7 %	0.6 %	0.2 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: WG2081457-7 WG2081457
 Analysis started at: 6/27/2025 8:18:03 PM
 Rack: 2
 Vial: 36
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0515 ppm	2.0162 ppm	0.1158 ppm	0.9678 ppm	1.9728 ppm	0.0483 ppm	21.6169 ppm
Concentration per Run 1	0.0513 ppm	2.0194 ppm	0.1154 ppm	0.9651 ppm	1.9736 ppm	0.0482 ppm	21.5613 ppm
Concentration per Run 2	0.0520 ppm	2.0213 ppm	0.1147 ppm	0.9780 ppm	1.9732 ppm	0.0485 ppm	21.6874 ppm
Concentration per Run 3	0.0511 ppm	2.0078 ppm	0.1172 ppm	0.9604 ppm	1.9715 ppm	0.0484 ppm	21.6021 ppm
Concentration RSD	0.9 %	0.4 %	1.1 %	0.9 %	0.1 %	0.3 %	0.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0464 ppm	0.4616 ppm	0.1974 ppm	0.2409 ppm	0.9736 ppm	11.4363 ppm	0.0018 ppm
Concentration per Run 1	0.0465 ppm	0.4622 ppm	0.1964 ppm	0.2414 ppm	0.9707 ppm	11.4623 ppm	0.0021 ppm
Concentration per Run 2	0.0466 ppm	0.4631 ppm	0.1995 ppm	0.2425 ppm	0.9764 ppm	11.4739 ppm	0.0018 ppm
Concentration per Run 3	0.0462 ppm	0.4594 ppm	0.1962 ppm	0.2390 ppm	0.9738 ppm	11.3728 ppm	0.0016 ppm
Concentration RSD	0.4 %	0.4 %	0.9 %	0.7 %	0.3 %	0.5 %	12.2 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	14.9185 ppm	0.4722 ppm	0.9167 ppm	24.3438 ppm	0.4804 ppm	0.5047 ppm	0.3777 ppm
Concentration per Run 1	14.8605 ppm	0.4714 ppm	0.9072 ppm	24.5845 ppm	0.4780 ppm	0.5048 ppm	0.3747 ppm
Concentration per Run 2	15.0159 ppm	0.4737 ppm	0.9230 ppm	24.2395 ppm	0.4861 ppm	0.5042 ppm	0.3800 ppm
Concentration per Run 3	14.8791 ppm	0.4716 ppm	0.9199 ppm	24.2075 ppm	0.4772 ppm	0.5051 ppm	0.3784 ppm
Concentration RSD	0.6 %	0.3 %	0.9 %	0.9 %	1.0 %	0.1 %	0.7 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.1163 ppm	10.0546 ppm	0.9138 ppm	1.0308 ppm	0.9793 ppm	0.1165 ppm	0.4818 ppm
Concentration per Run 1	0.1172 ppm	10.0145 ppm	0.9069 ppm	1.0313 ppm	0.9757 ppm	0.1167 ppm	0.4827 ppm
Concentration per Run 2	0.1152 ppm	10.1208 ppm	0.9229 ppm	1.0307 ppm	0.9865 ppm	0.1156 ppm	0.4839 ppm
Concentration per Run 3	0.1164 ppm	10.0286 ppm	0.9115 ppm	1.0305 ppm	0.9758 ppm	0.1173 ppm	0.4788 ppm
Concentration RSD	0.8 %	0.6 %	0.9 %	0.0 %	0.6 %	0.7 %	0.6 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4815 ppm	101.6798 %	102.5792 %	96.5588 %	99.1224 %	100.8095 %	96.5619 %
Concentration per Run 1	0.4796 ppm	102.3571 %	102.7480 %	96.6472 %	99.4468 %	100.9166 %	96.7799 %
Concentration per Run 2	0.4858 ppm	100.9388 %	101.7328 %	96.5249 %	98.6264 %	100.2668 %	96.4108 %
Concentration per Run 3	0.4791 ppm	101.7435 %	103.2566 %	96.5042 %	99.2942 %	101.2450 %	96.4950 %
Concentration RSD	0.8 %	0.7 %	0.8 %	0.1 %	0.4 %	0.5 %	0.2 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: L2538382-04 WG2081457
 Analysis started at: 6/27/2025 8:21:17 PM
 Rack: 2
 Vial: 37
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0003 ppm	0.0082 ppm	0.0012 ppm	0.0167 ppm	0.0304 ppm	0.0000 ppm	12.0000 ppm
Concentration per Run 1	0.0002 ppm	0.0076 ppm	0.0014 ppm	0.0176 ppm	0.0308 ppm	0.0000 ppm	11.9680 ppm
Concentration per Run 2	0.0001 ppm	0.0115 ppm	0.0021 ppm	0.0160 ppm	0.0300 ppm	0.0000 ppm	11.9965 ppm
Concentration per Run 3	0.0005 ppm	0.0056 ppm	-0.0001 ppm	0.0165 ppm	0.0302 ppm	0.0000 ppm	12.0355 ppm
Concentration RSD	74.7 %	36.6 %	98.0 %	4.7 %	1.3 %	53.0 %	0.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	0.0001 ppm	0.0020 ppm	0.0007 ppm	0.0021 ppm	1.2429 ppm	0.0019 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0019 ppm	0.0007 ppm	0.0016 ppm	1.2748 ppm	0.0018 ppm
Concentration per Run 2	0.0000 ppm	0.0002 ppm	0.0021 ppm	0.0007 ppm	0.0020 ppm	1.2371 ppm	0.0018 ppm
Concentration per Run 3	0.0000 ppm	0.0002 ppm	0.0019 ppm	0.0006 ppm	0.0029 ppm	1.2169 ppm	0.0023 ppm
Concentration RSD	449.8 %	20.1 %	7.2 %	8.4 %	30.8 %	2.4 %	13.7 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	5.8223 ppm	0.0008 ppm	0.0062 ppm	16.8699 ppm	0.0002 ppm	0.0000 ppm	0.0056 ppm
Concentration per Run 1	5.8380 ppm	0.0008 ppm	0.0063 ppm	17.0513 ppm	0.0000 ppm	0.0003 ppm	0.0077 ppm
Concentration per Run 2	5.8217 ppm	0.0008 ppm	0.0061 ppm	16.8026 ppm	0.0003 ppm	0.0005 ppm	0.0041 ppm
Concentration per Run 3	5.8071 ppm	0.0007 ppm	0.0061 ppm	16.7559 ppm	0.0003 ppm	-0.0006 ppm	0.0050 ppm
Concentration RSD	0.3 %	7.9 %	2.2 %	0.9 %	70.3 %	1,232.1 %	33.6 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0009 ppm	7.7335 ppm	0.0068 ppm	0.0701 ppm	0.0008 ppm	0.0002 ppm	0.0001 ppm
Concentration per Run 1	0.0002 ppm	7.7426 ppm	0.0067 ppm	0.0712 ppm	0.0009 ppm	-0.0007 ppm	0.0001 ppm
Concentration per Run 2	0.0024 ppm	7.7660 ppm	0.0062 ppm	0.0695 ppm	0.0008 ppm	0.0010 ppm	0.0001 ppm
Concentration per Run 3	0.0002 ppm	7.6921 ppm	0.0074 ppm	0.0696 ppm	0.0007 ppm	0.0003 ppm	0.0001 ppm
Concentration RSD	136.6 %	0.5 %	8.7 %	1.4 %	10.5 %	473.1 %	48.4 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0007 ppm	103.7492 %	102.6380 %	100.1017 %	101.2755 %	101.4732 %	98.8407 %
Concentration per Run 1	0.0008 ppm	103.4730 %	102.4020 %	99.7959 %	101.0210 %	101.8149 %	98.7583 %
Concentration per Run 2	0.0007 ppm	104.0104 %	102.6975 %	100.5933 %	101.7199 %	101.0032 %	98.8481 %
Concentration per Run 3	0.0007 ppm	103.7643 %	102.8143 %	99.9159 %	101.0855 %	101.6016 %	98.9156 %
Concentration RSD	10.3 %	0.3 %	0.2 %	0.4 %	0.4 %	0.4 %	0.1 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: xL2535879-02d5 WG2082357
 Analysis started at: 6/27/2025 8:24:31 PM
 Rack: 2
 Vial: 38
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0006 ppm	0.1136 ppm	17.7318 ppm	0.0321 ppm	0.0088 ppm	0.0001 ppm	33.7794 ppm
Concentration per Run 1	0.0008 ppm	0.1115 ppm	53.1963 ppm	-0.0015 ppm	0.0087 ppm	0.0001 ppm	33.4633 ppm
Concentration per Run 2	0.0005 ppm	0.1117 ppm	-0.0007 ppm	0.0479 ppm	0.0088 ppm	0.0001 ppm	33.9124 ppm
Concentration per Run 3	0.0004 ppm	0.1175 ppm	-0.0002 ppm	0.0499 ppm	0.0089 ppm	0.0001 ppm	33.9624 ppm
Concentration RSD	36.3 %	3.0 %	173.2 %	90.8 %	1.0 %	9.3 %	0.8 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0002 ppm	0.0017 ppm	0.0004 ppm	∞ [SIC 60]	0.0040 ppm	3.3490 ppm	-0.0001 ppm
Concentration per Run 1	0.0002 ppm	0.0015 ppm	0.0005 ppm	∞ ppm	0.0038 ppm	3.3569 ppm	0.0005 ppm
Concentration per Run 2	0.0003 ppm	0.0017 ppm	0.0004 ppm	0.0030 ppm	0.0048 ppm	3.3502 ppm	-0.0005 ppm
Concentration per Run 3	0.0002 ppm	0.0020 ppm	0.0003 ppm	0.0028 ppm	0.0033 ppm	3.3399 ppm	-0.0004 ppm
Concentration RSD	16.2 %	14.2 %	20.8 %		19.7 %	0.3 %	457.6 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	17.5896 ppm	0.2440 ppm	0.0012 ppm	232.6906 ppm	0.0026 ppm	-2.8368 ppm	∞ ppm
Concentration per Run 1	17.6198 ppm	0.2436 ppm	0.0011 ppm	231.1363 ppm	0.0003 ppm	-8.5116 ppm	∞ ppm
Concentration per Run 2	17.5485 ppm	0.2442 ppm	0.0013 ppm	234.0617 ppm	0.0038 ppm	0.0005 ppm	0.0077 ppm
Concentration per Run 3	17.6004 ppm	0.2441 ppm	0.0013 ppm	232.8739 ppm	0.0038 ppm	0.0008 ppm	0.0048 ppm
Concentration RSD	0.2 %	0.1 %	7.8 %	0.6 %	77.5 %	173.2 %	

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-24.5036 ppm	0.9549 ppm	0.0023 ppm	0.1753 ppm	0.0005 ppm	-82.5905 ppm	∞ [SIC 10]
Concentration per Run 1	-73.5106 ppm	0.9533 ppm	-0.0013 ppm	0.1751 ppm	0.0006 ppm	-247.7700 ppm	∞ ppm
Concentration per Run 2	-0.0001 ppm	0.9558 ppm	0.0041 ppm	0.1752 ppm	0.0006 ppm	-0.0011 ppm	0.0000 ppm
Concentration per Run 3	-0.0002 ppm	0.9556 ppm	0.0040 ppm	0.1758 ppm	0.0004 ppm	-0.0003 ppm	0.0001 ppm
Concentration RSD	173.2 %	0.1 %	136.7 %	0.2 %	23.3 %	173.2 %	

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.0065 ppm	95.9312 %	98.2726 %	58.9098 %	61.7388 %	98.5536 %	93.4677 %
Concentration per Run 1	-0.0021 ppm	95.1603 %	98.1329 %	0.0003 %	0.0000 %	98.3438 %	92.9198 %
Concentration per Run 2	0.0107 ppm	96.4213 %	98.3641 %	88.4156 %	92.3887 %	98.6721 %	94.0963 %
Concentration per Run 3	0.0108 ppm	96.2118 %	98.3207 %	88.3135 %	92.8279 %	98.6450 %	93.3869 %
Concentration RSD	114.9 %	0.7 %	0.1 %	86.6 %	86.6 %	0.2 %	0.6 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: CCV
Analysis started at: 6/27/2025 8:27:45 PM
Rack: 0
Vial: 3
Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.5235 ppm	0.4859 ppm	0.4668 ppm	0.4843 ppm	0.4908 ppm	0.4948 ppm	0.4710 ppm
Concentration per Run 1	0.5240 ppm	0.4831 ppm	0.4642 ppm	0.4904 ppm	0.4878 ppm	0.4948 ppm	0.4735 ppm
Concentration per Run 2	0.5239 ppm	0.4871 ppm	0.4671 ppm	0.4816 ppm	0.4931 ppm	0.4942 ppm	0.4690 ppm
Concentration per Run 3	0.5225 ppm	0.4875 ppm	0.4691 ppm	0.4810 ppm	0.4916 ppm	0.4954 ppm	0.4705 ppm
Recovery Percentage 1	104.695 %	97.180 %	93.368 %	96.866 %	98.165 %	98.963 %	94.202 %
Concentration RSD	0.2 %	0.5 %	0.5 %	1.1 %	0.6 %	0.1 %	0.5 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.4592 ppm	0.4908 ppm	0.5051 ppm	0.4974 ppm	0.4942 ppm	5.0987 ppm	0.5099 ppm
Concentration per Run 1	0.4616 ppm	0.4932 ppm	0.5068 ppm	0.4971 ppm	0.4925 ppm	5.0526 ppm	0.5060 ppm
Concentration per Run 2	0.4568 ppm	0.4884 ppm	0.5045 ppm	0.4963 ppm	0.4970 ppm	5.1480 ppm	0.5146 ppm
Concentration per Run 3	0.4592 ppm	0.4909 ppm	0.5039 ppm	0.4989 ppm	0.4932 ppm	5.0954 ppm	0.5093 ppm
Recovery Percentage 1	91.837 %	98.169 %	101.012 %	99.490 %	98.849 %	101.973 %	101.989 %
Concentration RSD	0.5 %	0.5 %	0.3 %	0.3 %	0.5 %	0.9 %	0.9 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.5024 ppm	0.4925 ppm	0.4860 ppm	10.1578 ppm	0.5015 ppm	0.4994 ppm	0.4867 ppm
Concentration per Run 1	0.5007 ppm	0.4945 ppm	0.4864 ppm	10.1211 ppm	0.5020 ppm	0.4999 ppm	0.4895 ppm
Concentration per Run 2	0.5067 ppm	0.4909 ppm	0.4829 ppm	10.2344 ppm	0.5026 ppm	0.4987 ppm	0.4796 ppm
Concentration per Run 3	0.4999 ppm	0.4920 ppm	0.4885 ppm	10.1178 ppm	0.5000 ppm	0.4996 ppm	0.4911 ppm
Recovery Percentage 1	100.487 %	98.500 %	97.191 %	101.578 %	100.304 %	99.877 %	97.345 %
Concentration RSD	0.7 %	0.4 %	0.6 %	0.7 %	0.3 %	0.1 %	1.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.4718 ppm	5.2593 ppm	0.4941 ppm	0.4999 ppm	0.5055 ppm	0.5038 ppm	0.4869 ppm
Concentration per Run 1	0.4702 ppm	5.2639 ppm	0.4984 ppm	0.4980 ppm	0.5071 ppm	0.5006 ppm	0.4862 ppm
Concentration per Run 2	0.4720 ppm	5.2291 ppm	0.4900 ppm	0.5016 ppm	0.5047 ppm	0.5068 ppm	0.4870 ppm
Concentration per Run 3	0.4731 ppm	5.2849 ppm	0.4939 ppm	0.5002 ppm	0.5048 ppm	0.5039 ppm	0.4875 ppm
Recovery Percentage 1	94.357 %	100.178 %	98.821 %	99.990 %	101.100 %	100.751 %	97.380 %
Concentration RSD	0.3 %	0.5 %	0.8 %	0.4 %	0.3 %	0.6 %	0.1 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4850 ppm	101.7800 %	100.8649 %	98.8921 %	99.2205 %	99.3340 %	97.3886 %
Concentration per Run 1	0.4881 ppm	101.2897 %	100.3353 %	98.9224 %	98.6135 %	98.7827 %	97.5540 %
Concentration per Run 2	0.4846 ppm	101.6441 %	101.1846 %	99.0761 %	99.4376 %	99.5992 %	97.4655 %
Concentration per Run 3	0.4823 ppm	102.4061 %	101.0748 %	98.6778 %	99.6105 %	99.6199 %	97.1464 %
Recovery Percentage 1	97.005 %						
Concentration RSD	0.6 %	0.6 %	0.5 %	0.2 %	0.5 %	0.5 %	0.2 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: CCB
 Analysis started at: 6/27/2025 8:30:58 PM
 Rack: 0
 Vial: 4
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0003 ppm	0.0023 ppm	0.0002 ppm	-0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0015 ppm
Concentration per Run 1	0.0005 ppm	0.0054 ppm	0.0012 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 2	0.0003 ppm	0.0016 ppm	0.0004 ppm	-0.0005 ppm	0.0000 ppm	0.0000 ppm	-0.0024 ppm
Concentration per Run 3	0.0000 ppm	-0.0001 ppm	-0.0010 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	-0.0022 ppm
Recovery Percentage 1	3.988 %	2.289 %	3.394 %	-0.318 %	-0.195 %	0.672 %	-1.475 %
Concentration RSD	86.2 %	123.5 %	663.1 %	393.2 %	97.7 %	26.4 %	97.3 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0000 ppm	0.0000 ppm	0.0005 ppm	0.0002 ppm	0.0007 ppm	0.0162 ppm	-0.0006 ppm
Concentration per Run 1	0.0000 ppm	0.0001 ppm	0.0003 ppm	0.0004 ppm	0.0006 ppm	0.0172 ppm	-0.0002 ppm
Concentration per Run 2	0.0000 ppm	-0.0001 ppm	0.0007 ppm	0.0001 ppm	0.0003 ppm	0.0158 ppm	-0.0007 ppm
Concentration per Run 3	0.0000 ppm	0.0001 ppm	0.0004 ppm	0.0001 ppm	0.0011 ppm	0.0155 ppm	-0.0009 ppm
Recovery Percentage 1	0.067 %	0.160 %	4.682 %	1.874 %	1.353 %	0.646 %	-12.484 %
Concentration RSD	1,283.3 %	337.6 %	40.2 %	82.9 %	59.7 %	5.4 %	60.0 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	-0.0002 ppm	0.0001 ppm	0.0025 ppm	0.0084 ppm	0.0002 ppm	-0.0004 ppm	0.0006 ppm
Concentration per Run 1	-0.0005 ppm	0.0001 ppm	0.0029 ppm	0.0070 ppm	-0.0002 ppm	-0.0003 ppm	0.0004 ppm
Concentration per Run 2	-0.0007 ppm	0.0001 ppm	0.0025 ppm	0.0061 ppm	0.0006 ppm	-0.0003 ppm	0.0007 ppm
Concentration per Run 3	0.0005 ppm	0.0001 ppm	0.0022 ppm	0.0121 ppm	0.0002 ppm	-0.0005 ppm	0.0007 ppm
Recovery Percentage 1	-0.232 %	1.106 %	5.087 %	0.421 %	0.724 %	-3.555 %	1.206 %
Concentration RSD	278.0 %	25.2 %	13.4 %	38.3 %	214.5 %	31.0 %	25.9 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	0.0004 ppm	0.0017 ppm	0.0004 ppm	0.0000 ppm	0.0005 ppm	-0.0005 ppm	0.0000 ppm
Concentration per Run 1	0.0013 ppm	0.0023 ppm	0.0002 ppm	0.0000 ppm	0.0006 ppm	-0.0009 ppm	0.0000 ppm
Concentration per Run 2	0.0014 ppm	0.0025 ppm	0.0007 ppm	0.0001 ppm	0.0003 ppm	-0.0006 ppm	0.0000 ppm
Concentration per Run 3	-0.0016 ppm	0.0004 ppm	0.0002 ppm	0.0000 ppm	0.0004 ppm	-0.0001 ppm	0.0001 ppm
Recovery Percentage 1	3.986 %	0.344 %	0.756 %	0.322 %	4.516 %	-2.495 %	0.312 %
Concentration RSD	427.8 %	65.6 %	81.5 %	100.4 %	39.7 %	82.9 %	142.8 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0012 ppm	102.2579 %	101.8345 %	100.4551 %	102.3518 %	102.0377 %	99.9062 %
Concentration per Run 1	-0.0012 ppm	101.9842 %	102.8392 %	99.8191 %	101.2641 %	102.3559 %	99.4395 %
Concentration per Run 2	-0.0010 ppm	102.3291 %	101.2015 %	101.0632 %	102.9609 %	101.3640 %	100.3356 %
Concentration per Run 3	-0.0013 ppm	102.4604 %	101.4628 %	100.4828 %	102.8302 %	102.3932 %	99.9435 %
Recovery Percentage 1	-23.027 %						
Concentration RSD	12.5 %	0.2 %	0.9 %	0.6 %	0.9 %	0.6 %	0.4 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: CCV
Analysis started at: 6/27/2025 8:34:12 PM
Rack: 0
Vial: 3
Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.5174 ppm	0.4764 ppm	25.6064 ppm	0.4774 ppm	0.4865 ppm	0.4884 ppm	0.4697 ppm
Concentration per Run 1	0.5200 ppm	0.4741 ppm	75.8943 ppm	0.4810 ppm	0.4844 ppm	0.4874 ppm	0.4701 ppm
Concentration per Run 2	0.5159 ppm	0.4742 ppm	0.4639 ppm	0.4756 ppm	0.4859 ppm	0.4879 ppm	0.4726 ppm
Concentration per Run 3	0.5164 ppm	0.4808 ppm	0.4611 ppm	0.4756 ppm	0.4892 ppm	0.4899 ppm	0.4664 ppm
Recovery Percentage 1	103.487 %	95.271 %	5,121.285 %	95.477 %	97.304 %	97.676 %	93.941 %
Concentration RSD	0.4 %	0.8 %	170.1 %	0.7 %	0.5 %	0.3 %	0.7 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.4553 ppm	0.4827 ppm	0.4981 ppm	0.4948 ppm	0.4874 ppm	5.0298 ppm	0.5031 ppm
Concentration per Run 1	0.4561 ppm	0.4820 ppm	0.5033 ppm	0.4948 ppm	0.4878 ppm	5.0011 ppm	0.5000 ppm
Concentration per Run 2	0.4529 ppm	0.4812 ppm	0.4931 ppm	0.4947 ppm	0.4880 ppm	5.0170 ppm	0.5052 ppm
Concentration per Run 3	0.4570 ppm	0.4849 ppm	0.4980 ppm	0.4948 ppm	0.4864 ppm	5.0713 ppm	0.5041 ppm
Recovery Percentage 1	91.068 %	96.540 %	99.623 %	98.956 %	97.479 %	100.595 %	100.615 %
Concentration RSD	0.5 %	0.4 %	1.0 %	0.0 %	0.2 %	0.7 %	0.5 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	0.4943 ppm	0.4895 ppm	0.4795 ppm	10.0554 ppm	0.4955 ppm	27.3667 ppm	0.4793 ppm
Concentration per Run 1	0.4936 ppm	0.4898 ppm	0.4789 ppm	10.0370 ppm	0.5030 ppm	81.1189 ppm	0.4798 ppm
Concentration per Run 2	0.4933 ppm	0.4905 ppm	0.4784 ppm	10.0463 ppm	0.4901 ppm	0.4911 ppm	0.4775 ppm
Concentration per Run 3	0.4961 ppm	0.4881 ppm	0.4812 ppm	10.0829 ppm	0.4934 ppm	0.4902 ppm	0.4807 ppm
Recovery Percentage 1	98.868 %	97.892 %	95.901 %	100.554 %	99.098 %	5,473.347 %	95.866 %
Concentration RSD	0.3 %	0.2 %	0.3 %	0.2 %	1.3 %	170.1 %	0.3 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	25.8339 [SIC 20]	5.1847 ppm	0.4863 ppm	0.4943 ppm	0.4989 ppm	27.4820 ppm	0.4825 ppm
Concentration per Run 1	76.5658 ppm	5.1917 ppm	0.4897 ppm	0.4915 ppm	0.5003 ppm	81.4504 ppm	0.4826 ppm
Concentration per Run 2	0.4695 ppm	5.1661 ppm	0.4869 ppm	0.4942 ppm	0.4978 ppm	0.4999 ppm	0.4813 ppm
Concentration per Run 3	0.4662 ppm	5.1964 ppm	0.4823 ppm	0.4971 ppm	0.4985 ppm	0.4958 ppm	0.4837 ppm
Recovery Percentage 1	5,166.772 %	98.757 %	97.258 %	98.855 %	99.772 %	5,496.410 %	96.501 %
Concentration RSD	170.1 %	0.3 %	0.8 %	0.6 %	0.3 %	170.1 %	0.3 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	0.4806 ppm	102.6465 %	102.1952 %	67.2371 %	99.6834 %	101.1096 %	98.4620 %
Concentration per Run 1	0.4848 ppm	102.9687 %	101.7407 %	0.6052 %	99.9839 %	100.5882 %	97.7301 %
Concentration per Run 2	0.4800 ppm	102.4453 %	102.4358 %	99.9253 %	99.9722 %	101.4173 %	98.5164 %
Concentration per Run 3	0.4770 ppm	102.5254 %	102.4093 %	101.1809 %	99.0943 %	101.3233 %	99.1396 %
Recovery Percentage 1	96.121 %						
Concentration RSD	0.8 %	0.3 %	0.4 %	85.8 %	0.5 %	0.4 %	0.7 %

ICP DataTrace 9

6/28/2025 7:52:57 AM



LabBook: WG2084232_06272025T9.imexp

Sample: CCB
 Analysis started at: 6/27/2025 8:37:26 PM
 Rack: 0
 Vial: 4
 Comment: <Comment>

	Ag 328.068 (Axial-IFR)	Al 396.152 (Radial-IFR)	As 189.042 (Axial-eUV)	B 208.959 (Axial-IFR)	Ba 455.403 (Radial-IFR)	Be 313.042 (Radial-IFR)	Ca 315.887 (Radial-IFR)
Concentration average	0.0002 ppm	0.0073 ppm	-0.0001 ppm	-0.0003 ppm	0.0000 ppm	0.0000 ppm	-0.0030 ppm
Concentration per Run 1	0.0005 ppm	0.0046 ppm	-0.0006 ppm	-0.0011 ppm	0.0000 ppm	0.0000 ppm	-0.0039 ppm
Concentration per Run 2	0.0000 ppm	0.0094 ppm	0.0005 ppm	0.0001 ppm	0.0000 ppm	0.0000 ppm	-0.0028 ppm
Concentration per Run 3	0.0000 ppm	0.0078 ppm	-0.0003 ppm	0.0000 ppm	0.0000 ppm	0.0000 ppm	-0.0022 ppm
Recovery Percentage 1	2.559 %	7.286 %	-2.772 %	-1.152 %	-0.081 %	0.980 %	-2.968 %
Concentration RSD	170.7 %	33.4 %	423.3 %	186.1 %	349.7 %	20.2 %	28.9 %

	Cd 214.438 (Axial-IFR)	Co 228.616 (Axial-IFR)	Cr 267.716 (Axial-IFR)	Cu 324.754 (Axial-IFR)	Fe 259.940 (Radial-IFR)	K 766.490 (Radial-IFR)	Li 670.776 (Radial-IFR)
Concentration average	0.0001 ppm	-0.0005 ppm	0.0003 ppm	0.0001 ppm	0.0004 ppm	0.0075 ppm	-0.0006 ppm
Concentration per Run 1	0.0001 ppm	-0.0002 ppm	0.0002 ppm	0.0002 ppm	0.0002 ppm	0.0075 ppm	-0.0007 ppm
Concentration per Run 2	0.0000 ppm	-0.0006 ppm	0.0003 ppm	0.0002 ppm	0.0005 ppm	0.0061 ppm	-0.0010 ppm
Concentration per Run 3	0.0001 ppm	-0.0007 ppm	0.0004 ppm	0.0000 ppm	0.0004 ppm	0.0090 ppm	-0.0003 ppm
Recovery Percentage 1	1.028 %	-2.593 %	3.107 %	1.362 %	0.757 %	0.302 %	-12.689 %
Concentration RSD	126.6 %	49.6 %	21.5 %	87.3 %	40.3 %	18.8 %	54.0 %

	Mg 279.079 (Axial-IFR)	Mn 257.610 (Radial-IFR)	Mo 202.030 (Axial-IFR)	Na 589.592 (Radial-IFR)	Ni 231.604 (Axial-IFR)	Pb 220.353 (Axial-eUV)	Sb 206.833 (Axial-IFR)
Concentration average	-0.0005 ppm	0.0001 ppm	0.0025 ppm	0.0048 ppm	-0.0002 ppm	0.0000 ppm	0.0007 ppm
Concentration per Run 1	-0.0008 ppm	0.0001 ppm	0.0022 ppm	0.0060 ppm	0.0003 ppm	-0.0005 ppm	0.0002 ppm
Concentration per Run 2	0.0008 ppm	0.0001 ppm	0.0029 ppm	0.0054 ppm	-0.0007 ppm	-0.0002 ppm	0.0026 ppm
Concentration per Run 3	-0.0016 ppm	0.0001 ppm	0.0023 ppm	0.0029 ppm	-0.0003 ppm	0.0006 ppm	-0.0007 ppm
Recovery Percentage 1	-0.526 %	0.644 %	4.996 %	0.238 %	-0.870 %	-0.368 %	1.357 %
Concentration RSD	238.0 %	16.4 %	13.9 %	33.8 %	234.0 %	1,549.2 %	255.1 %

	Se 196.090 (Axial-eUV)	Si 212.412 (Axial-IFR)	Sn 189.989 (Axial-IFR)	Sr 421.552 (Radial-IFR)	Ti 334.904 (Axial-IFR)	Tl 190.856 (Axial-eUV)	V 292.402 (Axial-IFR)
Concentration average	-0.0006 ppm	0.0021 ppm	0.0005 ppm	0.0000 ppm	0.0006 ppm	-0.0008 ppm	0.0001 ppm
Concentration per Run 1	-0.0015 ppm	0.0021 ppm	0.0004 ppm	0.0000 ppm	0.0005 ppm	-0.0007 ppm	0.0001 ppm
Concentration per Run 2	-0.0004 ppm	0.0040 ppm	0.0004 ppm	0.0000 ppm	0.0008 ppm	-0.0004 ppm	0.0003 ppm
Concentration per Run 3	0.0001 ppm	0.0004 ppm	0.0006 ppm	0.0000 ppm	0.0004 ppm	-0.0012 ppm	0.0000 ppm
Recovery Percentage 1	-5.994 %	0.427 %	0.921 %	0.281 %	5.805 %	-3.922 %	1.142 %
Concentration RSD	136.6 %	83.8 %	25.0 %	54.4 %	35.8 %	52.3 %	126.9 %

	Zn 206.200 (Axial-IFR)	Sc 361.384 (Axial-IFR)	Sc 361.384 (Radial-IFR)	Sc 227.318 (Axial-eUV)	Y 360.073 (Axial-IFR)	Y 371.030 (Radial-IFR)	Y 224.306 (Axial-eUV)
Concentration average	-0.0010 ppm	102.0317 %	101.6099 %	100.5183 %	102.1094 %	102.2282 %	100.2674 %
Concentration per Run 1	-0.0010 ppm	101.3456 %	101.9389 %	101.0494 %	101.4460 %	102.2671 %	100.2597 %
Concentration per Run 2	-0.0011 ppm	102.4578 %	102.0450 %	100.0304 %	102.9415 %	102.5851 %	99.9800 %
Concentration per Run 3	-0.0010 ppm	102.2918 %	100.8458 %	100.4752 %	101.9406 %	101.8323 %	100.5625 %
Recovery Percentage 1	-20.584 %						
Concentration RSD	6.2 %	0.6 %	0.7 %	0.5 %	0.7 %	0.4 %	0.3 %

QC True Values: Trace 4,5,6,7

	Element	True Value (mg/L)		Element	True Value (mg/L)
ICV/CCV	Al	0.50	CRI	Al	0.40
	K	5.00		Sb	0.10
	Na	10.00		As	0.02
	Si	5.25		Ba	0.04
ICSA				Be	0.01
	Al	250		Bi	0.02
	Ca	250		B	0.10
	Fe	100		Cd	0.01
ICSB	Mg	250		Ca	0.40
				Cr	0.02
	Al	9.00		Co	0.10
	Sb	1.00		Cu	0.05
	As	1.00		Fe	0.20
	Ba	0.30		Pb	0.05
	Be	0.10		Mg	0.40
	Bi	1.00		Mn	0.03
	B	0.50		Mo	0.10
	Cd	0.30		Ni	0.08
	Ca	45.00		K	5.00
	Cr	0.30		Se	0.02
	Co	0.30		Si	1.00
	Cu	0.30		Ag	0.02
	Fe	37.50		Na	5.00
	Pb	1.00		Sr	0.02
	Mg	22.50		Tl	0.02
	Mn	0.20		Sn	0.02
	Mo	0.30		Ti	0.02
	Ni	0.30		V	0.10
	K	20.00		Zn	0.04
	Se	0.50			
	Si	1.23			
	Ag	0.30			
	Na	7.50			
	Sr	1.00			
	Tl	1.00			
	Sn	1.00			
	Ti	1.00			
	V	0.30			
	Zn	0.30			

LCS & MS Spike Concentrations

Element	Liquid concentrations (mg/L)	Soil concentrations (mg/kg)
Al	2.00	100
Sb	0.50	25.0
As	0.12	6.0
Ba	2.00	100
Be	0.05	2.5
Bi	1.00	50.0
B	1.00	50.0
Cd	0.05	2.55
Ca	10.00	500
Cr	0.20	10.0
Co	0.50	25.0
Cu	0.25	12.5
Fe	1.00	50.0
Pb	0.51	25.5
Mg	10.00	500
Mn	0.50	25.0
Mo	1.00	50.0
Ni	0.50	25.0
K	10.00	500
Se	0.12	6.0
Si	1.00	50.0
Ag	0.05	2.5
Na	10.00	500
Sr	1.00	50.0
Tl	0.12	6.0
Sn	1.00	50.0
Ti	1.00	50.0
V	0.50	25.0
Zn	0.50	25.0

LCS and MS Spike Concentrations—As of 08/09/2011

Element	Liquid Concentration(mg/L)	Soil Concentration (mg/kg)
Al	2.00	160
Sb	0.50	40
As	0.12	9.6
Ba	2.00	160
Be	0.05	4.0
Bi	1.00	80
B	1.00	80
Cd	0.051	4.08
Ca	10.0	800
Cr	0.20	16
Co	0.50	40
Cu	0.25	20
Fe	1.00	80
Pb	0.51	40.8
Mg	10.0	800
Mn	0.50	40
Mo	1.00	80
Ni	0.50	40
K	10.0	800
Se	0.12	9.6
Si	1.00	80
Ag	0.05	24
Na	10.0	800
Sr	1.00	80
Tl	0.12	9.6
Sn	1.00	80
Ti	1.00	80
V	0.50	40
Zn	0.50	40

Revised 8/9/11 Soil spike is based on (2x water spike)x(50/1.25), where 50 is the final volume of soil digestate and 1.25 is the nominal digestion weight of 1.25g, except in the case of Ag, where additional Ag is added to the spike.

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D102-540
Certificate Issue Date: June 22, 2018
Expiration Date: January 31, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value ¹	Reference Value	Uncertainty ²	QC Performance Acceptance Limits ³	PT Performance Acceptance Limits ⁴
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8160	6.36	3960 - 12400	4080 - 12200
Antimony	120	60.9	9.42	0.822 - 121	12.0 - 166
Arsenic	144	135	5.08	112 - 158	94.6 - 176
Barium	469	443	6.77	366 - 521	332 - 554
Beryllium	207	197	5.86	164 - 229	148 - 246
Boron	213	174	12.6	127 - 221	105 - 244
Cadmium	224	204	6.65	169 - 240	153 - 256
Calcium	5190	4830	9.12	3950 - 5700	3510 - 6150
Chromium	138	132	8.56	109 - 155	92.2 - 171
Cobalt	182	179	7.93	151 - 207	134 - 224
Copper	191	184	6.72	155 - 213	138 - 230
Iron	15000	14400	10.7	8770 - 20000	5120 - 23600
Lead	225	216	7.72	178 - 254	159 - 274
Magnesium	2570	2340	6.13	1780 - 2900	1460 - 3230
Manganese	331	323	6.71	266 - 380	242 - 404
Mercury	16.8	13.2	16.0	8.64 - 17.7	7.89 - 18.5
Molybdenum	193	175	2.39	141 - 209	125 - 226
Nickel	163	152	5.95	126 - 178	106 - 197
Potassium	2420	2050	6.31	1440 - 2660	1210 - 2890
Selenium	81.9	74.9	4.13	59.3 - 90.5	47.0 - 103
Silver	57.6	53.9	9.00	43.0 - 64.8	37.8 - 70.0
Sodium	161	149	12.1	111 - 188	57.7 - 241
Strontium	100	96.2	4.04	78.1 - 114	69.0 - 123
Thallium	253	232	3.54	188 - 276	168 - 296

▪ Certificate of Analysis ▪

Parameter	Certified Value ¹	Reference Value	Uncertainty ²	QC Performance Acceptance Limits ³	PT Performance Acceptance Limits ⁴
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	146	134	10.8	106 - 163	79.5 - 189
Titanium	449	340	7.20	70.2 - 609	44.9 - 711
Uranium	114	113	7.10	85.5 - 140	71.9 - 153
Vanadium	180	172	8.85	137 - 207	126 - 218
Zinc	217	211	6.58	171 - 250	147 - 274

ANALYTICAL VERIFICATION

Parameter	Certified Value ¹	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery ⁵	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8160	80.8	138	-	-
Antimony	120	60.9	50.8	135	-	-
Arsenic	144	135	93.8	184	-	-
Barium	469	443	94.5	158	-	-
Beryllium	207	197	95.0	148	-	-
Boron	213	174	81.8	107	-	-
Cadmium	224	204	91.3	199	-	-
Calcium	5190	4830	93.0	122	-	-
Chromium	138	132	95.5	172	-	-
Cobalt	182	179	98.4	140	-	-
Copper	191	184	96.3	183	-	-
Iron	15000	14400	95.6	133	-	-
Lead	225	216	96.2	204	-	-
Magnesium	2570	2340	91.2	122	-	-
Manganese	331	323	97.6	147	-	-
Mercury	16.8	13.2	78.3	128	-	-
Molybdenum	193	175	90.8	143	-	-
Nickel	163	152	93.1	185	-	-
Potassium	2420	2050	84.7	121	-	-
Selenium	81.9	74.9	91.5	163	-	-

▪ Certificate of Analysis ▪

Parameter	Certified Value ¹	Proficiency Testing Study		n	NIST Traceability	
		Mean	Recovery ⁵		SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	57.6	53.9	93.6	150	-	-
Sodium	161	149	92.8	105	-	-
Strontium	100	96.2	96.2	90	-	-
Thallium	253	232	91.6	147	-	-
Tin	146	134	92.0	100	-	-
Titanium	449	340	75.6	93	-	-
Uranium	114	113	98.8	35	-	-
Vanadium	180	172	95.4	139	-	-
Zinc	217	211	97.0	180	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.

Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100

The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Quality Officer

Matthew Seebeck




ISO/IEC GUIDE 34:2009

ISO/IEC 17025:2005



Page 3 of 3 Lot: D102-540



A Waters Company

Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D105-540
Certificate Issue Date: March 19, 2019
Expiration Date: October 12, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value ¹	Reference Value	Uncertainty ²	QC Performance Acceptance Limits ³	PT Performance Acceptance Limits ⁴
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8800	8.32	4600 - 13000	4470 - 13100
Antimony	282	147	7.70	6.17 - 289	28.2 - 366
Arsenic	155	143	6.34	119 - 168	100 - 186
Barium	439	415	5.37	343 - 488	311 - 519
Beryllium	192	179	2.78	149 - 210	134 - 224
Boron	216	160	7.08	113 - 208	96.1 - 238
Cadmium	61.5	56.2	0.528	46.6 - 65.9	42.2 - 70.3
Calcium	5190	4960	6.64	4090 - 5840	3610 - 6310
Chromium	104	101	4.75	83.2 - 118	70.5 - 131
Cobalt	196	189	0.500	158 - 219	141 - 236
Copper	65.0	63.1	2.65	53.1 - 73.1	47.3 - 78.9
Iron	15000	15700	8.94	10100 - 21300	6000 - 25400
Lead	126	125	4.77	103 - 146	89.3 - 160
Magnesium	2570	2410	6.26	1860 - 2970	1520 - 3310
Manganese	387	382	5.37	315 - 449	290 - 474
Mercury	7.76	7.61	13.7	5.53 - 9.69	4.57 - 10.7
Molybdenum	120	107	0.500	86.0 - 128	75.5 - 139
Nickel	117	108	0.514	89.5 - 127	75.7 - 141
Potassium	2420	2110	5.62	1500 - 2720	1260 - 2960
Selenium	84.6	77.9	7.10	61.8 - 94.0	49.2 - 107
Silver	34.6	34.3	8.34	27.8 - 40.9	23.6 - 45.1
Sodium	161	145	6.72	106 - 183	54.3 - 235
Strontium	104	104	3.95	85.1 - 123	74.8 - 133
Thallium	123	113	0.500	91.3 - 134	77.1 - 149

Page 1 of 3 Lot: D105-540

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Parameter	Certified Value ¹	Reference Value	Uncertainty ²	QC Performance Acceptance Limits ³	PT Performance Acceptance Limits ⁴
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	118	107	0.500	83.5 - 130	61.2 - 152
Titanium	512	421	5.80	114 - 728	0.00 - 854
Uranium	103	104	6.18	79.1 - 128	71.9 - 135
Vanadium	87.3	83.7	8.55	66.8 - 101	54.2 - 113
Zinc	251	240	3.98	194 - 285	168 - 312

ANALYTICAL VERIFICATION

Parameter	Certified Value ¹	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery ⁵	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8800	87.1	193	-	-
Antimony	282	147	52.3	216	-	-
Arsenic	155	143	92.5	240	-	-
Barium	439	415	94.6	222	-	-
Beryllium	192	179	93.4	220	-	-
Boron	216	160	74.2	152	-	-
Cadmium	61.5	56.2	91.5	239	-	-
Calcium	5190	4960	95.6	175	-	-
Chromium	104	101	96.8	237	-	-
Cobalt	196	189	96.2	215	-	-
Copper	65.0	63.1	97.1	237	-	-
Iron	15000	15700	105	195	-	-
Lead	126	125	99.0	243	-	-
Magnesium	2570	2410	93.9	177	-	-
Manganese	387	382	98.7	215	-	-
Mercury	7.76	7.61	98.0	157	-	-
Molybdenum	120	107	89.4	216	-	-
Nickel	117	108	92.5	235	-	-
Potassium	2420	2110	87.2	181	-	-
Selenium	84.6	77.9	92.1	231	-	-

▪ Certificate of Analysis ▪

Parameter	Certified Value ¹	Proficiency Testing Study		n	NIST Traceability	
		Mean	Recovery ⁵		SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	34.6	34.3	99.3	216	-	-
Sodium	161	145	89.8	166	-	-
Strontium	104	104	99.9	148	-	-
Thallium	123	113	91.8	215	-	-
Tin	118	107	90.4	164	-	-
Titanium	512	421	82.2	157	-	-
Uranium	103	104	101	61	-	-
Vanadium	87.3	83.7	95.9	214	-	-
Zinc	251	240	95.5	234	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.

Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100

The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Quality Officer

Matthew Seebeck



ISO/IEC 17025:2005
ISO/IEC 17025:2005

REFERENCE MATERIAL PROVIDER
CERTIFICATE NO. 151923
CHEMICAL TESTING LABORATORY
CERTIFICATE NO. 159102

Page 3 of 3 Lot: D105-540

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D109-540
Certificate Issue Date: March 24, 2020
Expiration Date: October 03, 2023
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value ¹	Reference Value ⁷	Uncertainty ²	QC Performance Acceptance Limits ³	PT Performance Acceptance Limits ⁴
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8130	2.54	3920 - 12300	4060 - 12200
Antimony	259	134	5.03	4.56 - 264	25.9 - 335
Arsenic	171	156	3.38	129 - 183	109 - 203
Barium	253	239	4.81	197 - 280	179 - 298
Beryllium	179	169	6.59	141 - 198	127 - 212
Boron	114	87.5	10.3	62.5 - 113	52.5 - 125
Cadmium	149	137	5.43	113 - 160	103 - 171
Calcium	5190	4760	3.48	3890 - 5640	3460 - 6070
Chromium	163	154	3.79	126 - 181	108 - 200
Cobalt	127	121	5.07	101 - 141	90.8 - 151
Copper	57.0	54.9	4.13	46.1 - 63.6	41.1 - 68.6
Iron	15000	14100	6.27	8470 - 19700	4920 - 23200
Lead	133	130	3.00	107 - 152	93.3 - 167
Magnesium	2570	2320	3.32	1760 - 2880	1440 - 3200
Manganese	277	269	2.67	221 - 317	199 - 340
Mercury	21.6	20.5	7.72	14.7 - 26.3	12.3 - 28.6
Molybdenum	108	95.4	2.61	76.4 - 114	66.9 - 124
Nickel	58.7	53.9	4.97	44.5 - 63.3	37.7 - 70.0
Potassium	2420	2020	3.06	1410 - 2630	1190 - 2850
Selenium	181	167	5.63	132 - 201	113 - 221
Silver	35.5	33.6	5.20	26.8 - 40.3	23.0 - 44.1
Sodium	161	133	2.76	95.1 - 171	46.5 - 220
Strontium	89.7	87.9	4.59	71.7 - 104	62.8 - 113
Thallium	121	112	5.19	90.3 - 133	76.1 - 147

Certified Reference Material

▪ Certificate of Analysis ▪

Parameter	Certified Value ¹	Reference Value ⁷	Uncertainty ²	QC Performance Acceptance Limits ³	PT Performance Acceptance Limits ⁴
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	83.5	74.0	5.42	57.6 - 90.4	39.7 - 108
Titanium	474	333	7.17	48.6 - 617	46.3 - 620
Uranium	51.9	51.9	3.36	39.6 - 64.3	35.9 - 68.0
Vanadium	68.1	62.6	6.00	49.4 - 75.8	37.0 - 88.3
Zinc	165	158	2.34	128 - 188	111 - 205

▪ Certificate of Analysis ▪

ANALYTICAL VERIFICATION

Parameter	Certified Value ¹	Proficiency Testing Study		n	NIST Traceability	
		Mean	Recovery ⁵		SRM Number ⁶	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8130	80.5	196	-	-
Antimony	259	134	51.8	217	-	-
Arsenic	171	156	91.3	243	-	-
Barium	253	239	94.3	230	-	-
Beryllium	179	169	94.6	223	-	-
Boron	114	87.5	76.7	150	-	-
Cadmium	149	137	91.8	249	-	-
Calcium	5190	4760	91.8	184	-	-
Chromium	163	154	94.4	245	-	-
Cobalt	127	121	95.3	221	-	-
Copper	57.0	54.9	96.2	243	-	-
Iron	15000	14100	93.9	199	-	-
Lead	133	130	97.7	251	-	-
Magnesium	2570	2320	90.1	182	-	-
Manganese	277	269	97.2	220	-	-
Mercury	21.6	20.5	94.7	172	-	-
Molybdenum	108	95.4	88.3	218	-	-
Nickel	58.7	53.9	91.8	242	-	-
Potassium	2420	2020	83.5	187	-	-
Selenium	181	167	92.2	235	-	-
Silver	35.5	33.6	94.5	222	-	-
Sodium	161	133	82.7	177	-	-
Strontium	89.7	87.9	98.0	151	-	-
Thallium	121	112	92.2	219	-	-
Tin	83.5	74.0	88.6	170	-	-
Titanium	474	333	70.3	157	-	-
Uranium	51.9	51.9	100	60	-	-
Vanadium	68.1	62.6	91.9	213	-	-
Zinc	165	158	95.8	238	-	-

▪ Certificate of Analysis ▪

1. The **Certified Values** are the actual gravimetric/volumetric "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** represents an expanded uncertainty and approximates a 95% confidence interval. The uncertainty is based on the characterization, homogeneity and stability characteristics of the product, multiplied by a coverage factor ($k=2$). The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product. The formula used to calculate the expanded uncertainty is:

$$U_{\text{expanded}} = k * \text{SQRT}((U_{\text{char}})^2 + (U_{\text{homogen}})^2 + (U_{\text{LTS}})^2 + (U_{\text{STS}})^2 + (U_{\text{RSS}})^2)$$

Where:

U_{expanded} = Expanded uncertainty.

k = Coverage factor.

U_{char} = Combined standard uncertainty of the manufacturing and/or analytical verification assessment.

U_{homogen} = Standard uncertainty of the homogeneity assessment.

U_{LTS} = Standard uncertainty associated with long-term stability.

U_{STS} = Standard uncertainty associated with short-term (transport) stability.

U_{RSS} = Standard uncertainty associated with repeated sampling of the product (where permitted by product use instructions).

3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this certified reference material alongside USEPA and NELAC compliant PT study materials. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and therefore, the acceptance limits of this certified reference material and any PT study material may differ relative to their difference in concentrations.

5. The **PT Performance Data** include the mean value, percent recovery and number of data points reported by laboratories in our Proficiency Testing study compared to the Certified Values. In the event this lot was not used in a proficiency testing scheme, the data displayed was generated internally by ERA.

6. Where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. **Analytical Traceability Recovery (%) = [(% recovery ERA certified reference material)/(% recovery NIST SRM)]*100**

The traceability data shown were compiled by analyzing this ERA certified reference material and/or it's associated stock solution(s) against the applicable NIST SRMs.

7. The **Reference Values** are equal to the mean recoveries for the parameters as determined in an interlaboratory round robin study. The **Reference Values** represent the expected performance for the analytes in this standard. ERA recommends using the **Reference Values** when assessing or evaluating your results.

8. **Metrological Traceability.** This certified reference material is metrologically traceable to NIST mass reference materials through an unbroken chain of comparisons.

9. For additional information on this product such as intended use, storage information, instructions for use, minimum sample size, and safety information, please refer to the Product Use Instructions provided.

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Quality Officer

Matthew Seebeck

Brian Miller

Matthew Seebeck





A Waters Company

Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D113-540
Certificate Issue Date: March 23, 2021
Expiration Date: October 13, 2024
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION



Parameter	Certified Value ¹	Reference Value	Uncertainty ²	QC Performance Acceptance Limits ³	PT Performance Acceptance Limits ⁴
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8630	12.0	4420 - 12800	4370 - 12900
Antimony	256	129	16.8	0.742 - 257	25.6 - 323
Arsenic	91.6	84.5	15.1	70.0 - 99.0	59.2 - 110
Barium	259	249	9.94	206 - 292	187 - 311
Beryllium	175	163	3.89	135 - 191	122 - 204
Boron	95.7	76.7	12.8	55.7 - 97.7	48.0 - 107
Cadmium	107	99.0	11.5	82.2 - 116	74.2 - 124
Calcium	5190	4760	11.8	3890 - 5640	3460 - 6070
Chromium	129	122	14.6	101 - 144	85.7 - 159
Cobalt	63.6	61.7	11.5	51.9 - 71.6	46.3 - 77.2
Copper	62.3	61.5	12.3	51.9 - 71.0	46.1 - 76.8
Iron	15000	14500	15.7	8860 - 20100	5190 - 23800
Lead	122	123	13.9	103 - 144	88.3 - 158
Lithium	6.42	7.30	18.7	5.13 - 9.48	3.20 - 11.4
Magnesium	2570	2360	8.87	1810 - 2920	1480 - 3250
Manganese	470	456	13.4	375 - 538	350 - 563
Mercury	22.1	18.9	14.5	13.0 - 24.8	11.3 - 26.4
Molybdenum	80.1	72.8	11.0	58.7 - 87.0	50.5 - 95.2
Nickel	143	135	14.2	112 - 158	94.7 - 176
Potassium	2420	2090	8.21	1480 - 2700	1240 - 2940
Selenium	128	121	11.7	96.9 - 146	80.4 - 162
Silver	45.4	44.1	6.69	35.5 - 52.8	30.7 - 57.6
Sodium	161	136	9.34	97.4 - 174	48.1 - 223
Strontium	82.2	82.3	8.42	67.4 - 97.1	58.6 - 106

Page 1 of 4 Lot: D113-540

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Certified Reference Material

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Parameter	Certified Value ¹	Reference Value	Uncertainty ²	QC Performance Acceptance Limits ³	PT Performance Acceptance Limits ⁴
	mg/kg	mg/kg	%	mg/kg	mg/kg
Thallium	154	144	7.54	117 - 171	101 - 187
Tin	89.7	79.8	14.0	62.2 - 97.4	43.5 - 116
Titanium	705	546	10.3	123 - 969	118 - 974
Uranium	29.5	30.9	3.38	23.9 - 37.9	21.3 - 40.5
Vanadium	196	186	14.2	148 - 224	138 - 235
Zinc	307	295	10.4	240 - 351	207 - 384

Calculation of 6010B Metals

Aqueous Samples

The instrument will calculate the concentration ($\mu\text{g/L}$). This value is divided by 1000 to convert the units to mg/L . If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

$$\text{Result, mg/L} = C_s \times (1\text{mg}/1000\mu\text{g}) \times (\text{DF})$$

Where:

C_s = Concentration of sample ($\mu\text{g/L}$)

DF = Dilution Factor

Soil or Solid Samples

Soil samples are calculated as follows:

$$\text{Result, mg/Kg} = \frac{C_s \times (1\text{mg}/1000\mu\text{g}) \times (\text{DF})}{A}$$

Where:

C_s = Concentration of sample ($\mu\text{g/L}$)

DF = Dilution Factor

$$A = \frac{\text{Sample weight (grams)}}{\text{Final Volume (mL)}}$$

Dry weight correction

Dry weight correction is calculated as follows:

$$\text{Final concentration in mg/Kg, dry weight} = \frac{\text{Result, mg/Kg}}{\%_{\text{solids}}}$$

Where:

$\%_{\text{solids}}$ = Percent Solids, as a decimal value

Sequence Trace 6

6/27/2025 7:11:37 AM



LabBook: WG2083640_06262025T6.imexp

Index:	Label:	Rack	Vial	Start time:
1	Blank DMC Trace6	0	1	6/26/2025 6:02:27 AM
2	ICAL	0	2	6/26/2025 6:09:09 AM
3	ICV	0	3	6/26/2025 6:32:07 AM
4	ICB	0	4	6/26/2025 6:38:26 AM
5	ICV	0	10	6/26/2025 6:54:21 AM
6	ICB	0	4	6/26/2025 7:00:43 AM
7	LLOQ RL Check	0	5	6/26/2025 7:10:52 AM
8	ICSA	0	6	6/26/2025 7:17:31 AM
9	SIC Cr Mn V Ti	0	7	6/26/2025 7:25:35 AM
10	LDR Check	0	8	6/26/2025 7:33:10 AM
11	LDR 5PPM AS PASS	1	1	6/26/2025 7:45:21 AM
12	LDR 20PPM ZN PASS	1	2	6/26/2025 7:51:58 AM
13	LDR 500PPM NA PASS	1	3	6/26/2025 7:58:36 AM
14	LDR 500PPM MG PASS	1	4	6/26/2025 8:06:26 AM
15	CCV	0	3	6/26/2025 8:15:40 AM
16	CCB	0	4	6/26/2025 8:22:00 AM
17	WG2082870-1 WG2082870	1	5	6/26/2025 8:34:59 AM
18	WG2082870-2 WG2082870	1	6	6/26/2025 8:41:40 AM
19	L2538795-07 WG2082870	1	18	6/26/2025 8:48:06 AM
20	L2538796-07 WG2082870	1	19	6/26/2025 8:54:45 AM
21	L2538797-07 WG2082870	1	20	6/26/2025 9:01:19 AM
22	L2538013-01 WG2082870	1	7	6/26/2025 9:07:53 AM
23	WG2082870-7 WG2082870	1	8	6/26/2025 9:14:28 AM
24	WG2082870-8 WG2082870	1	9	6/26/2025 9:20:54 AM
25	WG2082870-9 WG2082870	1	10	6/26/2025 9:27:19 AM
26	WG2082870-10D5 WG2082870	1	11	6/26/2025 9:33:54 AM
27	CCV	0	3	6/26/2025 9:40:30 AM
28	CCB	0	4	6/26/2025 9:46:50 AM
29	L2538013-02 WG2082870	1	12	6/26/2025 10:10:55 AM
30	L2538013-03 WG2082870	1	13	6/26/2025 10:17:31 AM
31	L2538013-04 WG2082870	1	14	6/26/2025 10:24:04 AM
32	L2538013-05 WG2082870	1	15	6/26/2025 10:30:38 AM
33	L2538013-06 WG2082870	1	16	6/26/2025 10:37:11 AM
34	L2538013-07 WG2082870	1	17	6/26/2025 10:43:44 AM
35	CCV	0	3	6/26/2025 10:50:18 AM
36	CCB	0	4	6/26/2025 10:56:37 AM
37	WG2083757-1 WG2083757	1	21	6/26/2025 11:53:52 AM
38	WG2083757-2 WG2083757	1	22	6/26/2025 12:00:40 PM
39	L2538381-01 WG2083757	1	23	6/26/2025 12:07:07 PM
40	WG2083757-3 WG2083757	1	24	6/26/2025 12:13:51 PM
41	WG2083757-4 WG2083757	1	25	6/26/2025 12:20:27 PM
42	L2538381-02 WG2083757	1	26	6/26/2025 12:27:10 PM
43	L2538381-03 WG2083757	1	27	6/26/2025 12:33:52 PM
44	L2538381-04 WG2083757	1	28	6/26/2025 12:40:36 PM
45	L2538381-05 WG2083757	1	29	6/26/2025 12:47:19 PM
46	L2538381-06 WG2083757	1	30	6/26/2025 12:54:01 PM
47	CCV	0	3	6/26/2025 1:00:44 PM
48	CCB	0	4	6/26/2025 1:07:04 PM
49	L2538381-07 WG2083757	1	31	6/26/2025 1:26:36 PM
50	L2538381-08 WG2083757	1	32	6/26/2025 1:33:21 PM
51	L2538381-09 WG2083757	1	33	6/26/2025 1:40:06 PM
52	L2538846-02 WG2083757	1	34	6/26/2025 1:46:51 PM
53	CCV	0	3	6/26/2025 1:53:36 PM
54	CCB	0	4	6/26/2025 1:59:56 PM
55	WG2083265-1 WG2083265	1	35	6/26/2025 3:20:45 PM
56	WG2083265-2 WG2083265	1	36	6/26/2025 3:27:33 PM
57	L2537679-01 WG2083265	1	37	6/26/2025 3:34:00 PM
58	WG2083265-3 WG2083265	1	38	6/26/2025 3:40:41 PM
59	WG2083265-4 WG2083265	1	39	6/26/2025 3:47:15 PM
60	L2537679-04 WG2083265	1	40	6/26/2025 3:53:55 PM
61	L2537679-07 WG2083265	1	41	6/26/2025 4:00:40 PM
62	L2537679-10 WG2083265	1	42	6/26/2025 4:07:28 PM
63	CCV	0	3	6/26/2025 4:14:13 PM
64	CCB	0	4	6/26/2025 4:20:32 PM
65	WG2081457-1 WG2081457	1	43	6/26/2025 4:49:37 PM
66	WG2081457-2 WG2081457	1	44	6/26/2025 4:56:16 PM
67	L2537655-03 WG2081457	1	52	6/26/2025 5:02:43 PM
68	L2537655-01 WG2081457	1	50	6/26/2025 5:09:23 PM
69	L2537655-02 WG2081457	1	51	6/26/2025 5:15:57 PM
70	L2535446-01 WG2081457	1	45	6/26/2025 5:22:34 PM
71	WG2081457-3 WG2081457	1	46	6/26/2025 5:29:59 PM
72	WG2081457-4 WG2081457	1	47	6/26/2025 5:37:11 PM

Sequence Trace 6

6/27/2025 7:11:37 AM



Index:	Label:	Rack	Vial	Start time:
73	WG2081457-5 WG2081457	1	48	6/26/2025 5:43:42 PM
74	WG2081457-6d5 WG2081457	1	49	6/26/2025 5:51:10 PM
75	CCV	0	3	6/26/2025 5:57:52 PM
76	CCB	0	4	6/26/2025 6:04:11 PM
77	WG2083591-2d2 WG2083591	2	3	6/26/2025 6:13:11 PM
78	WG2083591-3d2 WG2083591	2	4	6/26/2025 6:19:25 PM
79	CCV	0	3	6/26/2025 6:25:40 PM
80	CCB	0	4	6/26/2025 6:31:59 PM
81	WG2082423-1 WG2082423	1	55	6/26/2025 6:46:05 PM
82	WG2082423-2 WG2082423	1	56	6/26/2025 6:52:45 PM
83	L2537655-01 WG2082423	1	57	6/26/2025 6:59:11 PM
84	L2537655-02 WG2082423	1	58	6/26/2025 7:05:47 PM
85	L2537655-03 WG2082423	1	59	6/26/2025 7:12:20 PM
86	L2537655-04 WG2082423	1	60	6/26/2025 7:19:14 PM
87	L2537655-05 WG2082423	2	1	6/26/2025 7:25:52 PM
88	L2537735-01 WG2082423	2	2	6/26/2025 7:32:26 PM
89	L2537655-04 WG2081457	1	53	6/26/2025 7:38:59 PM
90	L2537655-05 WG2081457	1	54	6/26/2025 7:46:23 PM
91	CCV	0	3	6/26/2025 7:57:33 PM
92	CCB	0	4	6/26/2025 8:03:53 PM
93	xWG2079820-1 WG2079820	2	5	6/26/2025 8:34:51 PM
94	xWG2079820-2 WG2079820	2	6	6/26/2025 8:41:31 PM
95	xL2535069-04 WG2079820	2	7	6/26/2025 8:47:57 PM
96	xWG2079820-3 WG2079820	2	8	6/26/2025 8:54:38 PM
97	xWG2079820-4 WG2079820	2	9	6/26/2025 9:01:37 PM
98	xline disconnected	2	10	6/26/2025 9:08:36 PM
99	xline disconnected	2	11	6/26/2025 9:15:35 PM
100	xline disconnected	0	3	6/26/2025 9:22:29 PM
101	xline disconnected	0	4	6/26/2025 9:30:14 PM
102	CCV	0	3	6/27/2025 5:31:38 AM
103	CCB	0	4	6/27/2025 5:37:57 AM

Sequence Trace 6

6/27/2025 2:55:36 PM



LabBook: WG2084179_06272025T6.imexp

Index:	Label:	Rack	Vial	Start time:
1	Blank DMC Trace6	0	1	6/27/2025 6:27:36 AM
2	ICAL	0	2	6/27/2025 6:34:17 AM
3	ICV	0	3	6/27/2025 6:44:26 AM
4	ICB	0	4	6/27/2025 6:50:44 AM
5	ICV	0	10	6/27/2025 7:02:43 AM
6	ICB	0	4	6/27/2025 7:09:05 AM
7	LLOQ RL Check	0	5	6/27/2025 7:15:48 AM
8	ICSA	0	6	6/27/2025 7:22:27 AM
9	SIC Cr Mn V Ti	0	7	6/27/2025 7:30:32 AM
10	LDR Check	0	8	6/27/2025 7:38:08 AM
11	LDR 5 As pass	1	1	6/27/2025 7:57:35 AM
12	zLDR 20 Zn	1	2	6/27/2025 8:04:12 AM
13	LDR 500 Mg pass	1	3	6/27/2025 8:10:50 AM
14	CCV	0	3	6/27/2025 8:43:38 AM
15	CCB	0	4	6/27/2025 8:49:55 AM
16	WG2084038-1 WG2084038	1	4	6/27/2025 9:00:37 AM
17	WG2084038-2 WG2084038	1	5	6/27/2025 9:07:17 AM
18	L2538382-01 WG2084038	1	11	6/27/2025 9:13:42 AM
19	L2538382-02 WG2084038	1	12	6/27/2025 9:20:18 AM
20	L2539680-01 WG2084038	1	17	6/27/2025 9:26:54 AM
21	L2538382-06 WG2084038	1	6	6/27/2025 9:33:29 AM
22	WG2084038-7 WG2084038	1	7	6/27/2025 9:40:05 AM
23	xWG2084038-8 WG2084038	1	8	6/27/2025 9:46:30 AM
24	WG2084038-9 WG2084038	1	9	6/27/2025 9:52:55 AM
25	WG2084038-10D5 WG2084038	1	10	6/27/2025 9:59:20 AM
26	CCV	0	3	6/27/2025 10:05:57 AM
27	CCB	0	4	6/27/2025 10:12:17 AM
28	WG2084038-8 WG2084038	1	8	6/27/2025 10:29:32 AM
29	L2538382-04 WG2084038	1	14	6/27/2025 10:35:58 AM
30	L2538382-03 WG2084038	1	13	6/27/2025 10:42:31 AM
31	L2538382-05 WG2084038	1	15	6/27/2025 10:49:03 AM
32	xL2538382-07 WG2084038	1	16	6/27/2025 10:55:36 AM
33	L2536164-02 WG2082817	1	18	6/27/2025 11:13:49 AM
34	L2538382-07 WG2084038	1	19	6/27/2025 11:20:31 AM
35	CCV	0	3	6/27/2025 11:31:52 AM
36	CCB	0	4	6/27/2025 11:38:10 AM
37	WG2084192-1 WG2084192	1	20	6/27/2025 12:01:47 PM
38	WG2084192-2 WG2084192	1	21	6/27/2025 12:08:28 PM
39	L2538432-04 WG2084192	1	27	6/27/2025 12:19:57 PM
40	L2538975-01 WG2082459	1	28	6/27/2025 12:26:37 PM
41	L2537303-11 WG2084192	1	22	6/27/2025 12:33:17 PM
42	xWG2084192-3 WG2084192	1	23	6/27/2025 12:39:52 PM
43	WG2084192-4 WG2084192	1	24	6/27/2025 12:46:17 PM
44	WG2084192-5 WG2084192	1	25	6/27/2025 12:52:42 PM
45	WG2084192-6D5 WG2084192	1	26	6/27/2025 12:59:04 PM
46	WG2084192-3 WG2084192	1	29	6/27/2025 1:05:39 PM
47	CCV	0	3	6/27/2025 1:12:02 PM
48	CCB	0	4	6/27/2025 1:18:22 PM
49	WG2084309-1 WG2084309	1	31	6/27/2025 1:31:10 PM
50	WG2084309-2D2 WG2084309	1	32	6/27/2025 1:37:50 PM
51	L2539000-01 WG2084038	1	30	6/27/2025 1:44:15 PM
52	L2539251-03D2 WG2084309	1	33	6/27/2025 1:50:51 PM
53	WG2084309-3D2 WG2084309	1	34	6/27/2025 1:57:22 PM
54	WG2084309-4D2 WG2084309	1	35	6/27/2025 2:04:03 PM
55	WG2084309-5D2 WG2084309	1	36	6/27/2025 2:10:35 PM
56	WG2084309-6D10 WG2084309	1	37	6/27/2025 2:17:15 PM
57	CCV	0	3	6/27/2025 2:23:45 PM
58	CCB	0	4	6/27/2025 2:30:03 PM
59	zWG2084309-1 WG2084309	2	6	6/27/2025 2:41:53 PM
60	WG2079820-1 WG2079820	1	38	
61	WG2079820-2 WG2079820	1	39	
62	L2535069-04 WG2079820	1	40	
63	WG2079820-3 WG2079820	1	41	
64	WG2079820-4 WG2079820	1	42	
65	L2535513-01 WG2079820	1	48	
66	L2535593-01 WG2079820	1	49	
67	L2535593-02 WG2079820	1	50	
68	L2535596-01 WG2079820	1	51	
69	CCV	0	3	
70	CCB	0	4	
71	L2535596-02 WG2079820	1	52	
72	L2536996-01 WG2079820	1	43	

Sequence Trace 6

6/27/2025 2:55:36 PM



Index:	Label:	Rack	Vial	Start time:
73	WG2079820-7 WG2079820	1	44	
74	WG2079820-8 WG2079820	1	45	
75	WG2079820-9 WG2079820	1	46	
76	WG2079820-10D5 WG2079820	1	47	
77	L2535598-01 WG2079820	1	53	
78	L2535598-02 WG2079820	1	54	
79	L2535601-01 WG2079820	1	55	
80	L2535616-01 WG2079820	1	56	
81	L2535616-02 WG2079820	1	57	
82	L2535616-03 WG2079820	1	58	
83	L2535616-04 WG2079820	1	59	
84	L2535618-01 WG2079820	1	60	
85	L2535621-01 WG2079820	2	1	
86	L2535673-01 WG2079820	2	2	
87	L2535681-03 WG2079820	2	3	
88	L2535681-04 WG2079820	2	4	
89	L2535681-06 WG2079820	2	5	
90	UNKNOWN	2	6	
91	UNKNOWN	2	7	
92	UNKNOWN	2	8	
93	UNKNOWN	2	9	
94	UNKNOWN	2	10	
95	UNKNOWN	2	11	

Sequence Trace 8

6/27/2025 3:18:24 PM



LabBook: WG2084175_06272025T8.imexp

Summary

Index	Label	Rack	Vial	Started at
1	xBlank JMF Trace8	0	1	6/27/2025 6:02:28 AM
2	xICAL	0	2	6/27/2025 6:06:02 AM
3	xBlank JMF Trace8	0	1	6/27/2025 6:39:09 AM
4	xICAL	0	2	6/27/2025 6:42:17 AM
5	xICV	0	3	6/27/2025 6:52:02 AM
6	xICB	0	4	6/27/2025 6:55:37 AM
7	xICV	0	10	6/27/2025 6:59:01 AM
8	xICB	0	4	6/27/2025 7:02:27 AM
9	xBlank JMF Trace8	0	1	6/27/2025 7:13:02 AM
10	xICAL	0	2	6/27/2025 7:16:37 AM
11	xICV	0	3	6/27/2025 7:19:59 AM
12	xICB	0	4	6/27/2025 7:23:31 AM
13	Blank JMF Trace8	0	1	6/27/2025 8:12:18 AM
14	ICAL	0	2	6/27/2025 8:15:27 AM
15	ICV	0	3	6/27/2025 8:21:29 AM
16	ICB	0	4	6/27/2025 8:25:02 AM
17	ICV	0	10	6/27/2025 8:28:26 AM
18	ICB	0	4	6/27/2025 8:31:53 AM
19	LLOQ	0	5	6/27/2025 8:43:20 AM
20	ICSA	0	6	6/27/2025 8:46:51 AM
21	SIC Multi	0	7	6/27/2025 8:51:46 AM
22	LDR Check	0	8	6/27/2025 8:56:12 AM
23	LLOQ 0.05ppm Fe	1	1	6/27/2025 9:37:50 AM
24	IEC 20 Cr +Sb	1	2	6/27/2025 9:41:26 AM
25	LDR 5 As pass	1	3	6/27/2025 9:45:19 AM
26	CCV	0	3	6/27/2025 10:17:01 AM
27	CCB	0	4	6/27/2025 10:20:37 AM
28	WG2084199-1 WG2084199	1	5	6/27/2025 11:05:39 AM
29	WG2084199-2D2 WG2084199	1	6	6/27/2025 11:09:16 AM
30	L2539747-01D2 WG2084199	1	12	6/27/2025 11:12:40 AM
31	L2539747-02D2 WG2084199	1	13	6/27/2025 11:16:06 AM
32	L2539747-03D2 WG2084199	1	14	6/27/2025 11:19:27 AM
33	L2539747-09D2 WG2084199	1	7	6/27/2025 11:24:50 AM
34	WG2084199-3D2 WG2084199	1	8	6/27/2025 11:28:18 AM
35	WG2084199-4D2 WG2084199	1	9	6/27/2025 11:31:42 AM
36	WG2084199-5D2 WG2084199	1	10	6/27/2025 11:35:07 AM
37	WG2084199-6D10 WG2084199	1	11	6/27/2025 11:38:32 AM
38	CCV	0	3	6/27/2025 11:41:58 AM
39	CCB	0	4	6/27/2025 11:45:22 AM
40	L2539747-04D2 WG2084199	1	15	6/27/2025 11:51:01 AM
41	L2539747-05D2 WG2084199	1	16	6/27/2025 11:54:34 AM
42	L2539747-06D2 WG2084199	1	17	6/27/2025 11:57:57 AM
43	L2539747-07D2 WG2084199	1	18	6/27/2025 12:01:20 PM
44	L2539747-08D2 WG2084199	1	19	6/27/2025 12:04:44 PM
45	L2539747-10D2 WG2084199	1	20	6/27/2025 12:08:07 PM
46	L2539747-11D2 WG2084199	1	21	6/27/2025 12:11:31 PM
47	L2539842-01D2 WG2084199	1	22	6/27/2025 12:16:57 PM
48	L2539842-02D2 WG2084199	1	23	6/27/2025 12:20:24 PM
49	L2539842-03D2 WG2084199	1	24	6/27/2025 12:23:49 PM
50	CCV	0	3	6/27/2025 12:27:15 PM
51	CCB	0	4	6/27/2025 12:30:39 PM
52	WG2084038-2 WG2084038	1	31	6/27/2025 12:43:55 PM
53	L2539842-04D2 WG2084199	1	25	6/27/2025 12:49:34 PM
54	L2539842-05D2 WG2084199	1	26	6/27/2025 12:52:59 PM
55	L2539842-06D2 WG2084199	1	27	6/27/2025 12:56:21 PM
56	L2539842-07D2 WG2084199	1	28	6/27/2025 12:59:44 PM
57	L2539842-08D2 WG2084199	1	29	6/27/2025 1:03:06 PM
58	L2539842-09D2 WG2084199	1	30	6/27/2025 1:06:30 PM
59	CCV	0	3	6/27/2025 1:09:54 PM
60	CCB	0	4	6/27/2025 1:13:17 PM
61	CCV	0	3	6/27/2025 1:33:33 PM
62	CCB	0	4	6/27/2025 1:37:12 PM
63	WG2084297-1 WG2084297	1	32	6/27/2025 1:47:55 PM
64	WG2084297-2D2 WG2084297	1	33	6/27/2025 1:51:33 PM
65	WG2084297-3D2 WG2084297	1	34	6/27/2025 1:54:57 PM
66	L2538016-01D2 WG2084297	1	35	6/27/2025 1:58:22 PM
67	L2538016-02D2 WG2084297	1	36	6/27/2025 2:01:47 PM
68	L2538330-01D2 WG2084297	1	37	6/27/2025 2:05:12 PM

Sequence Trace 8

6/27/2025 3:18:24 PM



Index	Label	Rack	Vial	Started at
69	L2538439-01D2 WG2084297	1	38	6/27/2025 2:08:35 PM
70	CCV	0	3	6/27/2025 2:13:59 PM
71	CCB	0	4	6/27/2025 2:17:26 PM
72	WG2084192-2 WG2084192	1	39	6/27/2025 2:47:34 PM
73	CCV	0	3	6/27/2025 2:51:03 PM
74	CCB	0	4	6/27/2025 2:54:28 PM
75	CCV	0	3	6/27/2025 3:01:34 PM
76	CCB	0	4	6/27/2025 3:05:05 PM
77		1	40	
78		1	41	
79		1	42	
80		1	43	
81		1	44	
82		1	45	
83		1	46	
84		1	47	
85		1	48	
86		1	49	
87		1	50	
88		1	51	
89		1	52	
90		1	53	
91	CCV	0	3	
92	CCB	0	4	

Sequence Trace 9

6/28/2025 7:55:18 AM



LabBook: WG2084232_06272025T9.imexp

Summary

Index	Label	Rack	Vial	Started at
1	Blank EFM Trace9	0	1	6/27/2025 9:34:20 AM
2	ICAL	0	2	6/27/2025 9:37:41 AM
3	ICV	0	3	6/27/2025 9:41:21 AM
4	ICB	0	4	6/27/2025 9:44:34 AM
5	ICV	0	10	6/27/2025 9:47:47 AM
6	ICB	0	4	6/27/2025 9:51:03 AM
7	LLOQ	0	5	6/27/2025 9:54:16 AM
8	ICSA	0	6	6/27/2025 9:57:29 AM
9	SIC Multi	0	7	6/27/2025 10:02:44 AM
10	LDR Check	0	8	6/27/2025 10:06:59 AM
11	CCV	0	3	6/27/2025 10:20:59 AM
12	CCB	0	4	6/27/2025 10:24:22 AM
13	LDR As 5	1	4	6/27/2025 10:28:03 AM
14	L2536019-01d2 WG2082496	1	1	6/27/2025 10:31:14 AM
15	L2536136-01d2 WG2082496	1	2	6/27/2025 10:34:25 AM
16	L2536136-02d2 WG2082496	1	3	6/27/2025 10:37:35 AM
17	CCV	0	3	6/27/2025 10:40:46 AM
18	CCB	0	4	6/27/2025 10:43:59 AM
19	WG2084202-1 WG2084202	1	5	6/27/2025 11:01:45 AM
20	WG2084202-2 WG2084202	1	6	6/27/2025 11:05:07 AM
21	L2539013-01 WG2084202	1	7	6/27/2025 11:08:19 AM
22	WG2084202-3 WG2084202	1	8	6/27/2025 11:11:31 AM
23	WG2084202-4 WG2084202	1	9	6/27/2025 11:14:43 AM
24	L2539119-01 WG2084202	1	10	6/27/2025 11:17:55 AM
25	L2539120-01 WG2084202	1	11	6/27/2025 11:21:08 AM
26	L2539120-02 WG2084202	1	12	6/27/2025 11:24:21 AM
27	CCV	0	3	6/27/2025 11:27:34 AM
28	CCB	0	4	6/27/2025 11:30:47 AM
29	WG2084191-1 WG2084191	1	13	6/27/2025 11:58:36 AM
30	WG2084191-2d2 WG2084191	1	14	6/27/2025 12:01:58 PM
31	L2539031-01d2 WG2084191	1	20	6/27/2025 12:05:09 PM
32	L2539739-01d2 WG2084191	1	21	6/27/2025 12:08:21 PM
33	L2539739-02d2 WG2084191	1	22	6/27/2025 12:11:34 PM
34	L2539742-01d2 WG2084191	1	15	6/27/2025 12:14:47 PM
35	WG2084191-3d2 WG2084191	1	16	6/27/2025 12:17:58 PM
36	WG2084191-4d2 WG2084191	1	17	6/27/2025 12:21:10 PM
37	WG2084191-5d2 WG2084191	1	18	6/27/2025 12:24:21 PM
38	xWG2084191-6d10 WG2084191	1	19	6/27/2025 12:27:34 PM
39	CCV	0	3	6/27/2025 12:31:47 PM
40	CCB	0	4	6/27/2025 12:35:00 PM
41	L2539739-03d2 WG2084191	1	23	6/27/2025 12:42:51 PM
42	xL2539739-04d2 WG2084191	1	24	6/27/2025 12:46:11 PM
43	L2539742-02d2 WG2084191	1	25	6/27/2025 12:49:25 PM
44	L2539742-03d2 WG2084191	1	26	6/27/2025 12:52:36 PM
45	L2539742-04d2 WG2084191	1	27	6/27/2025 12:55:47 PM
46	L2539742-05d2 WG2084191	1	28	6/27/2025 12:58:58 PM
47	L2539742-06d2 WG2084191	1	29	6/27/2025 1:02:09 PM
48	L2539826-01d2 WG2084191	1	30	6/27/2025 1:05:21 PM
49	L2539998-01d2 WG2084191	1	31	6/27/2025 1:08:33 PM
50	WG2084191-6d10 WG2084191	1	39	6/27/2025 1:11:46 PM
51	CCV	0	3	6/27/2025 1:14:57 PM
52	CCB	0	4	6/27/2025 1:18:10 PM
53	L2539998-03d2 WG2084191	1	33	6/27/2025 1:24:10 PM
54	L2540101-01d2 WG2084191	1	34	6/27/2025 1:27:26 PM
55	L2540101-02d2 WG2084191	1	35	6/27/2025 1:30:40 PM
56	L2540101-03d2 WG2084191	1	36	6/27/2025 1:33:53 PM
57	L2540101-04d2 WG2084191	1	37	6/27/2025 1:37:07 PM
58	L2540101-05d2 WG2084191	1	38	6/27/2025 1:40:18 PM
59	L2539998-02d2 WG2084191	1	32	6/27/2025 1:43:30 PM
60	L2539739-04d2 WG2084191	1	40	6/27/2025 1:48:44 PM
61	CCV	0	3	6/27/2025 1:54:38 PM
62	CCB	0	4	6/27/2025 1:57:54 PM
63	L2537294-01d2 WG2084309	1	41	6/27/2025 2:25:47 PM
64	L2537325-01d2 WG2084309	1	42	6/27/2025 2:29:12 PM
65	L2537325-05d2 WG2084309	1	43	6/27/2025 2:32:24 PM
66	L2537339-01d2 WG2084309	1	44	6/27/2025 2:35:36 PM
67	L2537339-02d2 WG2084309	1	45	6/27/2025 2:38:48 PM
68	L2537339-03d2 WG2084309	1	46	6/27/2025 2:42:02 PM

Sequence Trace 9

6/28/2025 7:55:18 AM



Index	Label	Rack	Vial	Started at
69	L2538360-01d2 WG2084309	1	47	6/27/2025 2:45:15 PM
70	L2538360-02d2 WG2084309	1	48	6/27/2025 2:48:28 PM
71	L2538367-02d2 WG2084309	1	49	6/27/2025 2:51:42 PM
72	L2538367-03d2 WG2084309	1	50	6/27/2025 2:54:54 PM
73	CCV	0	3	6/27/2025 3:00:08 PM
74	CCB	0	4	6/27/2025 3:03:21 PM
75	L2539318-01d2 WG2084309	1	51	6/27/2025 3:12:20 PM
76	L2539318-03d2 WG2084309	1	52	6/27/2025 3:15:38 PM
77	L2539318-05d2 WG2084309	1	53	6/27/2025 3:18:50 PM
78	L2539318-07d2 WG2084309	1	54	6/27/2025 3:22:02 PM
79	L2539318-09d2 WG2084309	1	55	6/27/2025 3:25:14 PM
80	zL2539318-11d2 WG2084309	1	56	6/27/2025 3:28:26 PM
81	L2539318-13d2 WG2084309	1	57	6/27/2025 3:31:39 PM
82	L2539318-15d2 WG2084309	1	58	6/27/2025 3:34:52 PM
83	L2539318-17d2 WG2084309	1	59	6/27/2025 3:38:06 PM
84	CCV	0	3	6/27/2025 3:43:20 PM
85	CCB	0	4	6/27/2025 3:46:34 PM
86	LDR 500 FE	1	60	6/27/2025 3:57:26 PM
87	L2539318-11d2 WG2084309	2	1	6/27/2025 4:14:19 PM
88	xL2539318-11d10 WG2084309	2	2	6/27/2025 4:17:37 PM
89	WG2084297-2d2 WG2084297	2	3	6/27/2025 4:28:18 PM
90	WG2084297-3d2 WG2084297	2	4	6/27/2025 4:31:37 PM
91	OB 013-01 d10	2	5	6/27/2025 4:43:42 PM
92	CCV	0	3	6/27/2025 4:47:01 PM
93	CCB	0	4	6/27/2025 4:50:14 PM
94	L2536262-01 WG2079154	2	6	6/27/2025 5:11:00 PM
95	L2536262-02 WG2079154	2	7	6/27/2025 5:14:26 PM
96	L2536262-03 WG2079154	2	8	6/27/2025 5:17:39 PM
97	L2536262-04 WG2079154	2	9	6/27/2025 5:20:52 PM
98	L2536262-05 WG2079154	2	10	6/27/2025 5:25:32 PM
99	L2536262-06 WG2079154	2	11	6/27/2025 5:28:52 PM
100	L2536262-07 WG2079154	2	12	6/27/2025 5:32:06 PM
101	L2536262-08 WG2079154	2	13	6/27/2025 5:35:19 PM
102	L2536262-09 WG2079154	2	14	6/27/2025 5:38:33 PM
103	I2535055-02 WG2081034	2	18	6/27/2025 5:41:46 PM
104	CCV	0	3	6/27/2025 5:44:59 PM
105	CCB	0	4	6/27/2025 5:48:12 PM
106	L2536262-10 WG2079154	2	15	6/27/2025 6:20:51 PM
107	L2536262-11 WG2079154	2	16	6/27/2025 6:24:18 PM
108	L2536262-12 WG2079154	2	17	6/27/2025 6:27:31 PM
109	L2535879-01 WG2082357	2	19	6/27/2025 6:40:48 PM
110	eL2535879-02 WG2082357	2	20	6/27/2025 6:44:08 PM
111	L2535879-03 WG2082357	2	21	6/27/2025 6:47:21 PM
112	L2535879-04 WG2082357	2	22	6/27/2025 6:50:34 PM
113	xL2536075-01 WG2082357	2	23	6/27/2025 6:53:48 PM
114	L2536075-02 WG2082357	2	24	6/27/2025 6:57:01 PM
115	L2536075-01 WG2082357	2	23	6/27/2025 7:00:15 PM
116	CCV	0	3	6/27/2025 7:09:13 PM
117	CCB	0	4	6/27/2025 7:12:33 PM
118	L2538382-06 WG2081457	2	25	6/27/2025 7:25:26 PM
119	zWG2081457-7 WG2081457	2	26	6/27/2025 7:28:53 PM
120	WG2081457-8 WG2081457	2	27	6/27/2025 7:32:06 PM
121	WG2081457-9 WG2081457	2	28	6/27/2025 7:35:19 PM
122	WG2081457-10d5 WG2081457	2	29	6/27/2025 7:38:33 PM
123	L2538382-01 WG2081457	2	30	6/27/2025 7:41:47 PM
124	L2538382-02 WG2081457	2	31	6/27/2025 7:45:00 PM
125	L2538382-03 WG2081457	2	32	6/27/2025 7:48:13 PM
126	xL2538382-04 WG2081457	2	33	6/27/2025 7:51:27 PM
127	xWG2081457-7 WG2081457	2	26	6/27/2025 7:54:41 PM
128	CCV	0	3	6/27/2025 8:01:46 PM
129	CCB	0	4	6/27/2025 8:05:06 PM
130	L2538382-05 WG2081457	2	34	6/27/2025 8:11:29 PM
131	L2538382-07 WG2081457	2	35	6/27/2025 8:14:48 PM
132	WG2081457-7 WG2081457	2	36	6/27/2025 8:18:03 PM
133	L2538382-04 WG2081457	2	37	6/27/2025 8:21:17 PM
134	xL2535879-02d5 WG2082357	2	38	6/27/2025 8:24:31 PM
135	CCV	0	3	6/27/2025 8:27:45 PM
136	CCB	0	4	6/27/2025 8:30:58 PM
137	CCV	0	3	6/27/2025 8:34:12 PM
138	CCB	0	4	6/27/2025 8:37:26 PM



METALS ELN REPORT

Workgroup: WG2081457

Digestion										
Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 3005A	1:1 HNO3	tHNO3252411 82120MGM	1:1 HCl	tHCl2522032 127NDD	METALS	METSPIKE2	IPS, FPS, MIX	METSPIKE2	IPS, FPS, MIX	140, 326

Additional Reagent/Std

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperatur e (C)	Stop Date/Time	Final Vol ml	Comments
L2535446-01 SAMP	06/20/25 11:06	Ashley Croto	06-07-25 09:53	50	<2		06/20/25 11:06	7	95.1	06/20/25 14:06	50	
L2537307-01 SAMP	06/20/25 11:06	Ashley Croto	06-14-25 07:55	50	<2		06/20/25 11:06	7	95.1	06/20/25 14:06	50	
L2537655-01 WATER	06/20/25 11:06	Ashley Croto	NA	50	<2		06/20/25 11:06	7	95.1	06/20/25 14:06	50	
L2537655-02 WATER	06/20/25 11:06	Ashley Croto	NA	50	<2		06/20/25 11:06	7	95.1	06/20/25 14:06	50	
L2537655-03 WATER	06/20/25 11:06	Ashley Croto	NA	50	<2		06/20/25 11:06	7	95.1	06/20/25 14:06	50	
L2537655-04 WATER	06/20/25 11:06	Ashley Croto	NA	50	<2		06/20/25 11:06	7	95.1	06/20/25 14:06	50	
L2537655-05 WATER	06/20/25 11:06	Ashley Croto	NA	50	<2		06/20/25 11:06	7	95.1	06/20/25 14:06	50	
L2538376-01 SAMP	06/20/25 11:06	Ashley Croto	06-19-25 04:32	50	<2		06/20/25 11:06	7	95.1	06/20/25 14:06	50	
L2538376-02 SAMP	06/20/25 11:06	Ashley Croto	06-19-25 04:32	50	<2		06/20/25 11:06	7	95.1	06/20/25 14:06	50	
L2538376-03 SAMP	06/20/25 11:06	Ashley Croto	06-19-25 04:32	50	<2		06/20/25 11:06	7	95.1	06/20/25 14:06	50	



METALS ELN REPORT

Workgroup: WG2081457

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperatur e (C)	Stop Date/Time	Final Vol ml	Comments
L2538376-04 SAMP	06/20/25 11:06	Ashley Croto	06-19-25 04:32	50	<2		06/20/25 11:06	7	95.1	06/20/25 14:06	50	
L2538376-05 SAMP	06/20/25 11:06	Ashley Croto	06-19-25 04:32	50	<2		06/20/25 11:06	7	95.1	06/20/25 14:06	50	
L2538382-01 SAMP	06/20/25 11:06	Ashley Croto	NA	50	<2		06/20/25 11:06	7	95.1	06/20/25 14:06	50	
L2538382-02 SAMP	06/20/25 11:06	Ashley Croto	NA	50	<2		06/20/25 11:06	7	95.1	06/20/25 14:06	50	
L2538382-03 SAMP	06/20/25 11:06	Ashley Croto	NA	50	<2		06/20/25 11:06	7	95.1	06/20/25 14:06	50	
L2538382-04 SAMP	06/20/25 11:06	Ashley Croto	NA	50	<2		06/20/25 11:06	7	95.1	06/20/25 14:06	50	
L2538382-05 SAMP	06/20/25 11:06	Ashley Croto	NA	50	<2		06/20/25 11:06	7	95.1	06/20/25 14:06	50	
L2538382-06 SAMP	06/20/25 11:06	Ashley Croto	NA	50	<2		06/20/25 11:06	7	95.1	06/20/25 14:06	50	
L2538382-07 SAMP	06/20/25 11:06	Ashley Croto	NA	50	<2		06/20/25 11:06	7	95.1	06/20/25 14:06	50	
WG2081457-1 BLANK	06/20/25 11:06	Ashley Croto	NA	50	<2		06/20/25 11:06	7	95.1	06/20/25 14:06	50	ELN: NRS
WG2081457-2 LCS	06/20/25 11:06	Ashley Croto	NA	50	<2	0.5	06/20/25 11:06	7	95.1	06/20/25 14:06	50	IPS252022153 8NDD
WG2081457-3 MS	06/20/25 11:06	Ashley Croto	NA	50	<2	0.5	06/20/25 11:06	7	95.1	06/20/25 14:06	50	



METALS ELN REPORT

Workgroup: WG2081457

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperatur e (C)	Stop Date/Time	Final Vol ml	Comments
WG2081457-4 DUP	06/20/25 11:06	Ashley Croto	NA	50	<2		06/20/25 11:06	7	95.1	06/20/25 14:06	50	
WG2081457-5 PS	06/20/25 11:06	Ashley Croto	NA	50	<2		06/20/25 11:06	7	95.1	06/20/25 14:06	50	
WG2081457-6 SERDIL	06/20/25 11:06	Ashley Croto	NA	50	<2		06/20/25 11:06	7	95.1	06/20/25 14:06	50	
WG2081457-7 MS	06/20/25 11:06	Ashley Croto	NA	50	<2	0.5	06/20/25 11:06	7	95.1	06/20/25 14:06	50	
WG2081457-8 MSD	06/20/25 11:06	Ashley Croto	NA	50	<2	0.5	06/20/25 11:06	7	95.1	06/20/25 14:06	50	
WG2081457-9 PS	06/20/25 11:06	Ashley Croto	NA	50	<2		06/20/25 11:06	7	95.1	06/20/25 14:06	50	
WG2081457-10 SERDIL	06/20/25 11:06	Ashley Croto	NA	50	<2		06/20/25 11:06	7	95.1	06/20/25 14:06	50	FM2523101942 CLH

Reagent	Actual Volume	Units
1:1 Hydrochloric Acid (H	.5	ml
1:1 Nitric Acid (HNO3)	1	ml



METALS ELN REPORT

Workgroup: WG2084038

Digestion										
Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 3005A	1:1 HNO3	tHNO3252301:1 HCl 90740ARM	tHCL252202	METALS 0955JDH	METSPIKE2	IPS, FPS, MIX	METSPIKE2	IPS, FPS, MIX	140, 326	

Additional Reagent/Std

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2536641-01 SAMP	06/26/25 19:04	Ashley Croto	50	<2		06/26/25 19:04	9	95.0	06/26/22 04:00	50	
L2536804-01 WATER	06/26/25 19:04	Ashley Croto	50	<2		06/26/25 19:04	9	95.0	06/26/22 04:00	50	
L2537369-01 SAMP	06/26/25 19:04	Ashley Croto	50	<2		06/26/25 19:04	9	95.0	06/26/22 04:00	50	
L2537369-02 SAMP	06/26/25 19:04	Ashley Croto	50	<2		06/26/25 19:04	9	95.0	06/26/22 04:00	50	
L2537369-03 SAMP	06/26/25 19:04	Ashley Croto	50	<2		06/26/25 19:04	9	95.0	06/26/22 04:00	50	
L2537369-04 SAMP	06/26/25 19:04	Ashley Croto	50	<2		06/26/25 19:04	9	95.0	06/26/22 04:00	50	
L2537424-01 SAMP	06/26/25 19:04	Ashley Croto	50	<2		06/26/25 19:04	9	95.0	06/26/22 04:00	50	
L2537424-02 SAMP	06/26/25 19:04	Ashley Croto	50	<2		06/26/25 19:04	9	95.0	06/26/22 04:00	50	
L2538382-01 SAMP	06/26/25 19:04	Ashley Croto	50	<2		06/26/25 19:04	9	95.0	06/26/22 04:00	50	
L2538382-02 SAMP	06/26/25 19:04	Ashley Croto	50	<2		06/26/25 19:04	9	95.0	06/26/22 04:00	50	



METALS ELN REPORT

Workgroup: WG2084038

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2538382-03 SAMP	06/26/25 19:04	Ashley Croto	50	<2		06/26/25 19:04	9	95.0	06/26/22 04:00	50	
L2538382-04 SAMP	06/26/25 19:04	Ashley Croto	50	<2		06/26/25 19:04	9	95.0	06/26/22 04:00	50	
L2538382-05 SAMP	06/26/25 19:04	Ashley Croto	50	<2		06/26/25 19:04	9	95.0	06/26/22 04:00	50	
L2538382-06 SAMP	06/26/25 19:04	Ashley Croto	50	<2		06/26/25 19:04	9	95.0	06/26/22 04:00	50	
L2538382-07 SAMP	06/26/25 19:04	Ashley Croto	50	<2		06/26/25 19:04	9	95.0	06/26/22 04:00	50	
L2539000-01 SAMP	06/27/25 09:54	Raldi Cabral	50	<2		06/27/25 09:54	7	95.1	06/27/25 12:54	50	
L2539680-01 WATER	06/26/25 19:04	Ashley Croto	50	<2		06/26/25 19:04	9	95.0	06/26/22 04:00	50	
WG2084038-1 BLANK	06/26/25 19:04	Ashley Croto	50	<2		06/26/25 19:04	9	95.0	06/26/22 04:00	50	ELN:GAN
WG2084038-2 LCS	06/26/25 19:04	Ashley Croto	50	<2	0.5	06/26/25 19:04	9	95.0	06/26/22 04:00	50	IPS252309081 2AJT
WG2084038-3 MS	06/26/25 19:04	Ashley Croto	50	<2	0.5	06/26/25 19:04	9	95.0	06/26/22 04:00	50	
WG2084038-4 DUP	06/26/25 19:04	Ashley Croto	50	<2		06/26/25 19:04	9	95.0	06/26/22 04:00	50	
WG2084038-5 PS	06/26/25 19:04	Ashley Croto	50	<2		06/26/25 19:04	9	95.0	06/26/22 04:00	50	



METALS ELN REPORT

Workgroup: WG2084038

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Ph	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
WG2084038-6 SERDIL	06/26/25 19:04	Ashley Croto	50	<2		06/26/25 19:04	9	95.0	06/26/22 04:00	50	
WG2084038-7 MS	06/26/25 19:04	Ashley Croto	50	<2	0.5	06/26/25 19:04	9	95.0	06/26/22 04:00	50	
WG2084038-8 MSD	06/26/25 19:04	Ashley Croto	50	<2	0.5	06/26/25 19:04	9	95.0	06/26/22 04:00	50	
WG2084038-9 PS	06/26/25 19:04	Ashley Croto	50	<2		06/26/25 19:04	9	95.0	06/26/22 04:00	50	
WG2084038-10 SERDIL	06/26/25 19:04	Ashley Croto	50	<2		06/26/25 19:04	9	95.0	06/26/22 04:00	50	FM2524161450 JDH

Reagent	Actual Volume	Units
1:1 Hydrochloric Acid (H	.5	ml
1:1 Nitric Acid (HNO3)	1	ml

Inorganic Data (Mercury Analysis)

Form 1

METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-01	Date Collected	: 06/18/25 09:00
Client ID	: MW-8S	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/23/25 19:07
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 3,245.1	Analyst	: CME
Lab File ID	: WG2082146.pdf	Instrument ID	: NIC2
Sample Amount	: 25ml	%Solids	: N/A
Digestion Method	: EPA 245.1	Date Digested	: 06/20/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1

METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-02	Date Collected	: 06/18/25 09:05
Client ID	: MW-8D	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/23/25 19:10
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 3,245.1	Analyst	: CME
Lab File ID	: WG2082146.pdf	Instrument ID	: NIC2
Sample Amount	: 25ml	%Solids	: N/A
Digestion Method	: EPA 245.1	Date Digested	: 06/20/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1

METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-03	Date Collected	: 06/18/25 10:30
Client ID	: MW-5D	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/23/25 19:13
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 3,245.1	Analyst	: CME
Lab File ID	: WG2082146.pdf	Instrument ID	: NIC2
Sample Amount	: 25ml	%Solids	: N/A
Digestion Method	: EPA 245.1	Date Digested	: 06/20/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1

METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-04	Date Collected	: 06/18/25 10:45
Client ID	: PZ-5	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/23/25 19:16
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 3,245.1	Analyst	: CME
Lab File ID	: WG2082146.pdf	Instrument ID	: NIC2
Sample Amount	: 25ml	%Solids	: N/A
Digestion Method	: EPA 245.1	Date Digested	: 06/20/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1

METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-05	Date Collected	: 06/18/25 13:20
Client ID	: MW-12S	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/23/25 19:20
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 3,245.1	Analyst	: CME
Lab File ID	: WG2082146.pdf	Instrument ID	: NIC2
Sample Amount	: 25ml	%Solids	: N/A
Digestion Method	: EPA 245.1	Date Digested	: 06/20/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1

METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-06	Date Collected	: 06/18/25 13:22
Client ID	: MW-12D	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/23/25 18:57
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 3,245.1	Analyst	: CME
Lab File ID	: WG2082146.pdf	Instrument ID	: NIC2
Sample Amount	: 25ml	%Solids	: N/A
Digestion Method	: EPA 245.1	Date Digested	: 06/20/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1

METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-07	Date Collected	: 06/18/25 12:00
Client ID	: DUP_06182025	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/23/25 19:23
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 3,245.1	Analyst	: CME
Lab File ID	: WG2082146.pdf	Instrument ID	: NIC2
Sample Amount	: 25ml	%Solids	: N/A
Digestion Method	: EPA 245.1	Date Digested	: 06/20/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U

Form 1

METALS

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Lab ID : WG2081458-1
Client ID : WG2081458-1BLANK
Sample Location :
Sample Matrix : WATER
Analytical Method : 3,245.1
Lab File ID : WG2082146.pdf
Sample Amount : 25ml
Digestion Method : EPA 245.1

Lab Number : L2538382
Project Number : 2232.0006Y005
Date Collected : NA
Date Received : NA
Date Analyzed : 06/23/25 18:13
Dilution Factor : 1
Analyst : CME
Instrument ID : NIC2
%Solids : N/A
Date Digested : 06/20/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00009	U



Form 1

METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-01	Date Collected	: 06/18/25 09:00
Client ID	: MW-8S	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/27/25 09:10
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 3,245.1	Analyst	: CME
Lab File ID	: WG2084204.pdf	Instrument ID	: NIC3
Sample Amount	: 25ml	%Solids	: N/A
Digestion Method	: EPA 245.1	Date Digested	: 06/26/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1

METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-02	Date Collected	: 06/18/25 09:05
Client ID	: MW-8D	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/27/25 09:20
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 3,245.1	Analyst	: CME
Lab File ID	: WG2084204.pdf	Instrument ID	: NIC3
Sample Amount	: 25ml	%Solids	: N/A
Digestion Method	: EPA 245.1	Date Digested	: 06/26/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U



Form 1

METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-03	Date Collected	: 06/18/25 10:30
Client ID	: MW-5D	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/27/25 09:23
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 3,245.1	Analyst	: CME
Lab File ID	: WG2084204.pdf	Instrument ID	: NIC3
Sample Amount	: 25ml	%Solids	: N/A
Digestion Method	: EPA 245.1	Date Digested	: 06/26/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1

METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-04	Date Collected	: 06/18/25 10:45
Client ID	: PZ-5	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/27/25 09:26
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 3,245.1	Analyst	: CME
Lab File ID	: WG2084204.pdf	Instrument ID	: NIC3
Sample Amount	: 25ml	%Solids	: N/A
Digestion Method	: EPA 245.1	Date Digested	: 06/26/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1

METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-05	Date Collected	: 06/18/25 13:20
Client ID	: MW-12S	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/27/25 09:30
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 3,245.1	Analyst	: CME
Lab File ID	: WG2084204.pdf	Instrument ID	: NIC3
Sample Amount	: 25ml	%Solids	: N/A
Digestion Method	: EPA 245.1	Date Digested	: 06/26/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1

METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-06	Date Collected	: 06/18/25 13:22
Client ID	: MW-12D	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/27/25 09:00
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 3,245.1	Analyst	: CME
Lab File ID	: WG2084204.pdf	Instrument ID	: NIC3
Sample Amount	: 25ml	%Solids	: N/A
Digestion Method	: EPA 245.1	Date Digested	: 06/26/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U

Form 1

METALS

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-07	Date Collected	: 06/18/25 12:00
Client ID	: DUP_06182025	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/27/25 09:33
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 3,245.1	Analyst	: CME
Lab File ID	: WG2084204.pdf	Instrument ID	: NIC3
Sample Amount	: 25ml	%Solids	: N/A
Digestion Method	: EPA 245.1	Date Digested	: 06/26/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U



Form 1

METALS

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Lab ID : WG2084039-1
 Client ID : WG2084039-1BLANK
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 3,245.1
 Lab File ID : WG2084204.pdf
 Sample Amount : 25ml
 Digestion Method : EPA 245.1

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 06/27/25 08:53
 Dilution Factor : 1
 Analyst : CME
 Instrument ID : NIC3
 %Solids : N/A
 Date Digested : 06/26/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	ND	0.00020	0.00009	U



Form 2A

Initial and Continuing Calibration Verification

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : NIC2

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Units : mg/l

	Initial Calibration			Continuing Calibration(s)							
	Lab ID	: R1980132-1			R1980132-3			R1980132-5		R1980132-7	
	Date Analyzed	: 06/23/25 08:14			06/23/25 09:15			06/23/25 10:44		06/23/25 12:16	
Parameter		True	Found	%R	True	Found	%R	Found	%R	Found	%R
Mercury		0.00300	0.0030	99	0.0050	0.00490	98	0.00490	97	0.00490	99

Acceptance Criteria:

ICV: 95-105% (Methods 200.7, 245.1)
 90-110% (Methods 200.8, 6010, 6020, 7470, 7471, 7474)
 77-123% (Method 1631)
 76-113% (Method 245.7)

CCV: 90-110% (Methods 200.7, 245.1, 6010, 6020, 7474)
 85-115% (Method 200.8)
 80-120% (Methods 7470, 7471)
 77-123% (Method 1631)
 76-113% (Method 245.7)



Form 2A

Initial and Continuing Calibration Verification

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : NIC2

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Units : mg/l

Parameter	Lab ID : Date Analyzed :	Initial Calibration			Continuing Calibration(s)						
		True	Found	%R	R1980132-9			R1980132-11		R1980132-13	
					06/23/25 12:56			06/23/25 13:36		06/23/25 15:26	
					True	Found	%R	Found	%R	Found	%R
Mercury					0.0050	0.00500	100	0.00500	100	0.00500	99

Acceptance Criteria:

ICV: 95-105% (Methods 200.7, 245.1)
 90-110% (Methods 200.8, 6010, 6020, 7470, 7471, 7474)
 77-123% (Method 1631)
 76-113% (Method 245.7)

CCV: 90-110% (Methods 200.7, 245.1, 6010, 6020, 7474)
 85-115% (Method 200.8)
 80-120% (Methods 7470, 7471)
 77-123% (Method 1631)
 76-113% (Method 245.7)



Form 2A

Initial and Continuing Calibration Verification

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : NIC2

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Units : mg/l

Parameter	Lab ID : Date Analyzed :	Initial Calibration			Continuing Calibration(s)						
		True	Found	%R	R1980132-15 06/23/25 17:00			R1980132-17 06/23/25 17:40		R1980132-19 06/23/25 18:20	
					True	Found	%R	Found	%R	Found	%R
Mercury					0.0050	0.00500	100	0.00500	100	0.00140	27

Acceptance Criteria:

ICV: 95-105% (Methods 200.7, 245.1)
 90-110% (Methods 200.8, 6010, 6020, 7470, 7471, 7474)
 77-123% (Method 1631)
 76-113% (Method 245.7)

CCV: 90-110% (Methods 200.7, 245.1, 6010, 6020, 7474)
 85-115% (Method 200.8)
 80-120% (Methods 7470, 7471)
 77-123% (Method 1631)
 76-113% (Method 245.7)



Form 2A

Initial and Continuing Calibration Verification

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : NIC2

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Units : mg/l

Parameter	Lab ID : Date Analyzed :	Initial Calibration			Continuing Calibration(s)						
		True	Found	%R	R1980132-20 06/23/25 18:50			R1980132-22 06/23/25 19:26			
					True	Found	%R	Found	%R	Found	%R
Mercury					0.0050	0.00510	102	0.00500	100		

Acceptance Criteria:

ICV: 95-105% (Methods 200.7, 245.1)
 90-110% (Methods 200.8, 6010, 6020, 7470, 7471, 7474)
 77-123% (Method 1631)
 76-113% (Method 245.7)

CCV: 90-110% (Methods 200.7, 245.1, 6010, 6020, 7474)
 85-115% (Method 200.8)
 80-120% (Methods 7470, 7471)
 77-123% (Method 1631)
 76-113% (Method 245.7)



Form 2A

Initial and Continuing Calibration Verification

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : NIC3

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Units : mg/l

Parameter	Initial Calibration			Continuing Calibration(s)						
	Lab ID	: R1981964-1		R1981964-3			R1981964-5			
	Date Analyzed	: 06/27/25 07:27		06/27/25 09:13			06/27/25 10:01			
	True	Found	%R	True	Found	%R	Found	%R	Found	%R
Mercury	0.00300	0.0030	102	0.0050	0.00490	98	0.00500	101		

Acceptance Criteria:

ICV: 95-105% (Methods 200.7, 245.1)
 90-110% (Methods 200.8, 6010, 6020, 7470, 7471, 7474)
 77-123% (Method 1631)
 76-113% (Method 245.7)

CCV: 90-110% (Methods 200.7, 245.1, 6010, 6020, 7474)
 85-115% (Method 200.8)
 80-120% (Methods 7470, 7471)
 77-123% (Method 1631)
 76-113% (Method 245.7)



Form 3 Blanks

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : NIC2

Lab Number : L2538382
 Project Number : 2232.0006Y005

	Initial Calibration Blank		Continuing Calibration Blank(s)				Preparation Blank	
Lab ID :	R1980132-2		R1980132-4	R1980132-6	R1980132-8		WG2081458-1	
Date Analyzed :	06/23/25 08:17		06/23/25 09:19	06/23/25 10:48	06/23/25 12:20		06/23/25 18:13	
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Mercury	0.0000910	U	0.0000910	U	0.0000910	U	0.0000910	U



Form 3 Blanks

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : NIC2

Lab Number : L2538382
 Project Number : 2232.0006Y005

Parameter	Initial Calibration Blank		Continuing Calibration Blank(s)				Preparation Blank	
	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Lab ID :			R1980132-10		R1980132-12		R1980132-14	
Date Analyzed :			06/23/25 12:59		06/23/25 13:39		06/23/25 15:29	
Mercury			0.0000910 U		0.0000910 U		0.0000910 U	



Form 3 Blanks

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : NIC2

Lab Number : L2538382
 Project Number : 2232.0006Y005

Parameter	Initial Calibration Blank		Continuing Calibration Blank(s)				Preparation Blank	
	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Lab ID :			R1980132-16		R1980132-18		R1980132-21	
Date Analyzed :			06/23/25 17:04		06/23/25 17:44		06/23/25 18:53	
Mercury			0.0000910 U		0.0000910 U		0.0000910 U	



Form 3 Blanks

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : NIC2

Lab Number : L2538382
 Project Number : 2232.0006Y005

Parameter	Initial Calibration Blank		Continuing Calibration Blank(s)				Preparation Blank	
	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Lab ID :			R1980132-23					
Date Analyzed :			06/23/25 19:30					
Mercury			0.0000910	U				



Form 3 Blanks

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Instrument ID : NIC3

Lab Number : L2538382
 Project Number : 2232.0006Y005

Parameter	Initial Calibration		Continuing Calibration				Preparation	
	Blank		Blank(s)				Blank	
Lab ID	: R1981964-2		R1981964-4				WG2084039-1	
Date Analyzed	: 06/27/25 07:30		06/27/25 09:16				06/27/25 08:53	
	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q
Mercury	0.0000910	U	0.0000910	U	0.0000910	U	0.00009	U



Form 5a Matrix Spike

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : MW-12D
 Lab Sample ID : L2538382-06
 Matrix Spike : WG2081458-3
 Matrix Spike Dup : WG2081458-4

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Matrix : WATER
 MS Analysis Date : 06/23/25 19:00
 MSD Analysis Date : 06/23/25 19:03

Parameter	Sample Conc. (mg/l)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R			
Mercury, Dissolved	ND	0.005	0.00477	95	0.005	0.00485	97	2	75-125	20



Form 5a Matrix Spike

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : MW-12D
 Lab Sample ID : L2538382-06
 Matrix Spike : WG2084039-3
 Matrix Spike Dup : WG2084039-4

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Matrix : WATER

MS Analysis Date : 06/27/25 09:03
 MSD Analysis Date : 06/27/25 09:06

Parameter	Sample Conc. (mg/l)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R			
Mercury, Total	ND	0.01	0.00892	89	0.01	0.00891	89	0	70-130	20



Form 7

Laboratory Control Sample

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : NA
 Lab Sample ID : WG2081458-2
 Dup Sample ID :

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Matrix : WATER
 LCS Analysis Date : 06/23/25 18:17
 LCSD Analysis Date :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R			
Mercury, Dissolved	0.00100	0.000990	100.					85-115	20



Form 7

Laboratory Control Sample

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : NA
 Lab Sample ID : WG2084039-2
 Dup Sample ID :

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Matrix : WATER
 LCS Analysis Date : 06/27/25 08:56
 LCSD Analysis Date :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R			
Mercury, Total	0.00100	0.000900	90.					85-115	20



Form 12 Preparation Log

Client : Roux Env. Eng. & Geology, DPC Lab Number : L2538382
Project Name : CORAM MATERIALS Project Number : 2232.0006Y005
Matrix : WATER Prep Method : EPA 245.1

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2538382-01	06/20/25 11:39	-	25
L2538382-02	06/20/25 11:39	-	25
L2538382-03	06/20/25 11:39	-	25
L2538382-04	06/20/25 11:39	-	25
L2538382-05	06/20/25 11:39	-	25
L2538382-06	06/20/25 11:39	-	25
L2538382-07	06/20/25 11:39	-	25
WG2081458-1	06/20/25 11:39	-	25
WG2081458-2	06/20/25 11:39	-	25
WG2081458-3	06/20/25 11:39	-	25
WG2081458-4	06/20/25 11:39	-	25



Form 12

Preparation Log

Client : Roux Env. Eng. & Geology, DPC Lab Number : L2538382
Project Name : CORAM MATERIALS Project Number : 2232.0006Y005
Matrix : WATER Prep Method : EPA 245.1

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L2538382-01	06/26/25 20:23	-	25
L2538382-02	06/26/25 20:23	-	25
L2538382-03	06/26/25 20:23	-	25
L2538382-04	06/26/25 20:23	-	25
L2538382-05	06/26/25 20:23	-	25
L2538382-06	06/26/25 20:23	-	25
L2538382-07	06/26/25 20:23	-	25
WG2084039-1	06/26/25 20:23	-	25
WG2084039-2	06/26/25 20:23	-	25
WG2084039-3	06/26/25 20:23	-	25
WG2084039-4	06/26/25 20:23	-	25



Form 13

Analysis Run Log

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Instrument ID : NIC2
Start Date : 06/23/25 08:14

Lab Number : L2538382
Project Number : 2232.0006Y005
Analysis Method : 3,245.1
End Date : 06/23/25 19:30

[illegible]

Form 13

Analysis Run Log

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Instrument ID : NIC2
Start Date : 06/23/25 08:14

Lab Number : L2538382
Project Number : 2232.0006Y005
Analysis Method : 3,245.1
End Date : 06/23/25 19:30

[illegible]

Form 13

Analysis Run Log

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Instrument ID : NIC3
Start Date : 06/27/25 07:27

Lab Number : L2538382
Project Number : 2232.0006Y005
Analysis Method : 3,245.1
End Date : 06/27/25 10:04

[illegible]

Date Created: 03/19/18
Created By: Jason Hebert
File: PM4631-1
Page: 1

MERCURY by 7470A, 245.1 (WATER)

[illegible]

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/ Solids only)

Please Note that the information provided in this table is subject to change at anytime at the discretion of the laboratory.

Date Created: 01/22/21
Created By: Jason Hebert
File: PM9836-1
Page: 1

METALS by 7470A (WATER)

[illegible]

Please Note that the RL Information provided in this table is calculated using a 100% Solids factor. (Sol/Solids only)
Please Note that the Information provided in this table is subject to change at anytime at the discretion of the laboratory.

Date Created: 01/22/21
Created By: Jason Hebert
File: PM9837-1
Page: 1

METALS by 7471B (SOIL)

[illegible]

Please Note that the RL Information provided in this table is calculated using a 100% Solids factor. (Sol/Solids only)
Please Note that the Information provided in this table is subject to change at anytime at the discretion of the laboratory.

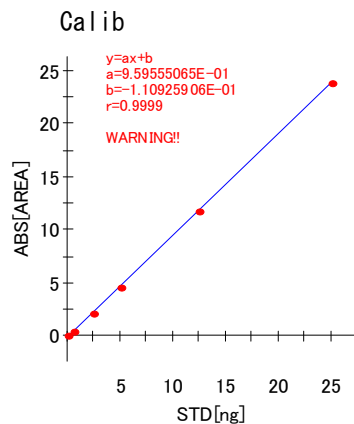
Title :
 Date : 6/23/2025
 Name :

Method

STD
 HONH3CI : 0.0mL
 (1+1) H2SO4 : 0.0mL
 10w/v% SnCl2 : 0.3mL

SMP
 HONH3CI : 0.0mL
 (1+1) H2SO4 : 0.0mL
 10w/v% SnCl2 : 0.3mL

Measurement Time(sec) : 120sec



STD

No.	STD [ug/L]	SVOL [mL]	CVOL [mL]	DVOL [mL]	STD [ng]	AREA [ON]	MEAS [ng]	Dev [%]	M. TIME	Note
1	0.000	2.500	2.500	2.500	0.000	0.0105	0.1265	-	06/23/2025 07:27	CME, NIC2
2	0.200	2.500	2.500	2.500	0.500	0.4385	0.5726	14.5	06/23/2025 07:30	CME, NIC2
3	1.000	2.500	2.500	2.500	2.500	2.2012	2.4096	3.6	06/23/2025 07:34	CME, NIC2
4	2.000	2.500	2.500	2.500	5.000	4.5638	4.8718	2.6	06/23/2025 07:37	CME, NIC2
5	5.000	2.500	2.500	2.500	12.500	11.857	12.4726	0.2	06/23/2025 07:40	CME, NIC2
6	10.000	2.500	2.500	2.500	25.000	23.923	25.0469	0.2	06/23/2025 07:44	CME, NIC2

SMP

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
1	XICV	2.500	2.500	2.500	6.1786	6.5546	2.622	-	06/23/2025 08:07	CME, NIC2
2	XICB	2.500	2.500	2.500	0.0073	0.1232	0.049	-	06/23/2025 08:11	CME, NIC2
3	ICV	2.500	2.500	2.500	7.0250	7.4367	2.975	-	06/23/2025 08:14	CME, NIC2
4	ICB	2.500	2.500	2.500	0.0064	0.1223	0.049	-	06/23/2025 08:17	CME, NIC2
5	WG2081838-1 WG2081838	2.500	2.500	2.500	-0.0006	0.1150	0.046	-	06/23/2025 08:34	CME, NIC2
6	WG2081838-2 WG2081838	2.500	2.500	2.500	2.2561	2.4668	0.987	-	06/23/2025 08:38	CME, NIC2

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
7	L2537418-01 WG2081838	2.500	2.500	2.500	0.0266	0.1433	0.057	-	06/23/2025 08:41	CME,NIC2
8	WG2081838-3 WG2081838	2.500	2.500	2.500	11.1066	11.6903	4.676	-	06/23/2025 08:44	CME,NIC2
9	WG2081838-4 WG2081838	2.500	2.500	2.500	0.0332	0.1502	0.060	-	06/23/2025 08:48	CME,NIC2
10	L2536930-02 WG2081838	2.500	2.500	2.500	0.0031	0.1188	0.048	-	06/23/2025 08:51	CME,NIC2
11	L2536930-03 WG2081838	2.500	2.500	2.500	0.0053	0.1211	0.048	-	06/23/2025 08:54	CME,NIC2
12	L2536930-04 WG2081838	2.500	2.500	2.500	0.0071	0.1230	0.049	-	06/23/2025 08:57	CME,NIC2
13	Check STD(5ug/L)	2.500	2.500	2.500	11.6036	12.2083	4.883	97.7	06/23/2025 09:15	CME,NIC2
14	Check Blank	2.500	2.500	2.500	0.0026	0.1183	0.047	-	06/23/2025 09:19	CME,NIC2
15	WG2080389-1 WG2080389	2.500	2.500	2.500	0.0189	0.1353	0.054	-	06/23/2025 09:22	CME,NIC2
16	WG2080389-2 WG2080389	2.500	2.500	2.500	2.3391	2.5533	1.021	-	06/23/2025 09:25	CME,NIC2
17	WG2080389-3 WG2080389	2.500	2.500	2.500	2.3853	2.6014	1.041	-	06/23/2025 09:29	CME,NIC2
18	L2532933-16 WG2080389	2.500	2.500	2.500	0.0239	0.1405	0.056	-	06/23/2025 09:32	CME,NIC2
19	L2532933-17 WG2080389	2.500	2.500	2.500	0.0159	0.1322	0.053	-	06/23/2025 09:35	CME,NIC2
20	L2532933-18 WG2080389	2.500	2.500	2.500	0.0115	0.1276	0.051	-	06/23/2025 09:39	CME,NIC2
21	WG2080728-1 WG2080728	2.500	2.500	2.500	0.0011	0.1167	0.047	-	06/23/2025 10:31	CME,NIC2
22	WG2080728-2 WG2080728	2.500	2.500	2.500	1.9608	2.1590	0.864	-	06/23/2025 10:34	CME,NIC2
23	L2534699-01 WG2080728	2.500	2.500	2.500	-0.0001	0.1155	0.046	-	06/23/2025 10:38	CME,NIC2
24	WG2080728-3 WG2080728	2.500	2.500	2.500	11.7831	12.3954	4.958	-	06/23/2025 10:41	CME,NIC2
25	Check STD(5ug/L)	2.500	2.500	2.500	11.5390	12.1410	4.856	97.1	06/23/2025 10:44	CME,NIC2
26	Check Blank	2.500	2.500	2.500	0.0021	0.1178	0.047	-	06/23/2025 10:48	CME,NIC2
27	WG2080728-4 WG2080728	2.500	2.500	2.500	0.0058	0.1216	0.049	-	06/23/2025 10:51	CME,NIC2
28	WG2082127-1 WG2082127	2.500	2.500	2.500	0.0617	0.1799	0.072	-	06/23/2025 11:47	CME,NIC2
29	WG2082127-2 WG2082127	2.500	2.500	2.500	2.3775	2.5933	1.037	-	06/23/2025 11:50	CME,NIC2
30	L2536930-01 WG2082127	2.500	2.500	2.500	0.0571	0.1751	0.070	-	06/23/2025 11:53	CME,NIC2
31	WG2082127-3 WG2082127	2.500	2.500	2.500	11.5143	12.1152	4.846	-	06/23/2025 11:57	CME,NIC2
32	WG2082127-4 WG2082127	2.500	2.500	2.500	0.0810	0.2000	0.080	-	06/23/2025 12:00	CME,NIC2
33	WG2082130-1 WG2082130	2.500	2.500	2.500	0.0201	0.1365	0.055	-	06/23/2025 12:03	CME,NIC2
34	WG2082130-2 WG2082130	2.500	2.500	2.500	2.3528	2.5676	1.027	-	06/23/2025 12:07	CME,NIC2
35	L2536930-01 WG2082130	2.500	2.500	2.500	0.0343	0.1513	0.061	-	06/23/2025 12:10	CME,NIC2
36	WG2082130-3 WG2082130	2.500	2.500	2.500	11.5028	12.1032	4.841	-	06/23/2025 12:13	CME,NIC2
37	Check STD(5ug/L)	2.500	2.500	2.500	11.7537	12.3647	4.946	98.9	06/23/2025 12:16	CME,NIC2
38	Check Blank	2.500	2.500	2.500	0.0068	0.1227	0.049	-	06/23/2025 12:20	CME,NIC2

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
39	WG2082130-4 WG2082130	2.500	2.500	2.500	0.0410	0.1583	0.063	-	06/23/2025 12:23	CME,NIC2
40	L2535887-01 WG2082130	2.500	2.500	2.500	0.0553	0.1732	0.069	-	06/23/2025 12:26	CME,NIC2
41	L2536930-02 WG2082130	2.500	2.500	2.500	0.0270	0.1437	0.057	-	06/23/2025 12:30	CME,NIC2
42	L2536930-03 WG2082130	2.500	2.500	2.500	0.0338	0.1508	0.060	-	06/23/2025 12:33	CME,NIC2
43	L2536930-04 WG2082130	2.500	2.500	2.500	0.0380	0.1552	0.062	-	06/23/2025 12:36	CME,NIC2
44	WG2079362-1 WG2079362	2.500	2.500	2.500	0.1653	0.2879	0.115	-	06/23/2025 12:40	CME,NIC2
45	WG2079362-2 WG2079362	2.500	2.500	2.500	2.4744	2.6943	1.078	-	06/23/2025 12:43	CME,NIC2
46	L2535139-03 WG2079362	2.500	2.500	2.500	0.1417	0.2633	0.105	-	06/23/2025 12:46	CME,NIC2
47	WG2079362-3 WG2079362	2.500	2.500	2.500	11.7249	12.3347	4.934	-	06/23/2025 12:49	CME,NIC2
48	WG2079362-4 WG2079362	2.500	2.500	2.500	0.1356	0.2569	0.103	-	06/23/2025 12:53	CME,NIC2
49	Check STD(5ug/L)	2.500	2.500	2.500	11.8436	12.4584	4.983	99.7	06/23/2025 12:56	CME,NIC2
50	Check Blank	2.500	2.500	2.500	0.0033	0.1190	0.048	-	06/23/2025 12:59	CME,NIC2
51	L2535139-05 WG2079362	2.500	2.500	2.500	0.1283	0.2493	0.100	-	06/23/2025 13:03	CME,NIC2
52	WG2079362-5 WG2079362	2.500	2.500	2.500	11.6705	12.2780	4.911	-	06/23/2025 13:06	CME,NIC2
53	WG2079362-6 WG2079362	2.500	2.500	2.500	0.0992	0.2190	0.088	-	06/23/2025 13:09	CME,NIC2
54	L2535139-01 WG2079362	2.500	2.500	2.500	0.0949	0.2145	0.086	-	06/23/2025 13:13	CME,NIC2
55	L2535139-02 WG2079362	2.500	2.500	2.500	0.1047	0.2247	0.090	-	06/23/2025 13:16	CME,NIC2
56	L2535139-04 WG2079362	2.500	2.500	2.500	0.1441	0.2658	0.106	-	06/23/2025 13:19	CME,NIC2
57	L2535139-06 WG2079362	2.500	2.500	2.500	0.1190	0.2396	0.096	-	06/23/2025 13:22	CME,NIC2
58	L2535139-07 WG2079362	2.500	2.500	2.500	0.0834	0.2025	0.081	-	06/23/2025 13:26	CME,NIC2
59	L2535139-08 WG2079362	2.500	2.500	2.500	0.0829	0.2020	0.081	-	06/23/2025 13:29	CME,NIC2
60	L2535139-09 WG2079362	2.500	2.500	2.500	0.0843	0.2035	0.081	-	06/23/2025 13:32	CME,NIC2
61	Check STD(5ug/L)	2.500	2.500	2.500	11.9038	12.5211	5.008	100.2	06/23/2025 13:36	CME,NIC2
62	Check Blank	2.500	2.500	2.500	0.0024	0.1181	0.047	-	06/23/2025 13:39	CME,NIC2
63	L2535139-10 WG2079362	2.500	2.500	2.500	0.0824	0.2015	0.081	-	06/23/2025 13:42	CME,NIC2
64	L2535139-11 WG2079362	2.500	2.500	2.500	0.0811	0.2001	0.080	-	06/23/2025 13:46	CME,NIC2
65	L2535139-12 WG2079362	2.500	2.500	2.500	0.0865	0.2057	0.082	-	06/23/2025 13:49	CME,NIC2
66	L2535139-13 WG2079362	2.500	2.500	2.500	0.0911	0.2105	0.084	-	06/23/2025 13:52	CME,NIC2
67	L2535139-14 WG2079362	2.500	2.500	2.500	0.0874	0.2067	0.083	-	06/23/2025 13:55	CME,NIC2
68	WG2079379-1 WG2079379	2.500	2.500	2.500	0.0792	0.1981	0.079	-	06/23/2025 15:09	CME,NIC2
69	WG2079379-2 WG2079379	2.500	2.500	2.500	2.5516	2.7748	1.110	-	06/23/2025 15:12	CME,NIC2
70	L2535550-01 WG2079379	2.500	2.500	2.500	0.1760	0.2990	0.120	-	06/23/2025 15:16	CME,NIC2

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
71	WG2079379-3 WG2079379	2.500	2.500	2.500	11.1878	11.7750	4.710	-	06/23/2025 15:19	CME,NIC2
72	WG2079379-4 WG2079379	2.500	2.500	2.500	0.0576	0.1756	0.070	-	06/23/2025 15:22	CME,NIC2
73	Check STD(5ug/L)	2.500	2.500	2.500	11.7968	12.4096	4.964	99.3	06/23/2025 15:26	CME,NIC2
74	Check Blank	2.500	2.500	2.500	-0.0028	0.1127	0.045	-	06/23/2025 15:29	CME,NIC2
75	L2534836-03 WG2079379	2.500	2.500	2.500	0.0499	0.1676	0.067	-	06/23/2025 15:43	CME,NIC2
76	I2535254-12 WG2078705	2.500	2.500	2.500	0.0035	0.1192	0.048	-	06/23/2025 16:30	CME,NIC2
77	I2535803-01 WG2078705	2.500	2.500	2.500	0.0020	0.1177	0.047	-	06/23/2025 16:34	CME,NIC2
78	I2535803-02 WG2078705	2.500	2.500	2.500	0.0057	0.1215	0.049	-	06/23/2025 16:37	CME,NIC2
79	I2535803-03 WG2078705	2.500	2.500	2.500	-0.0033	0.1122	0.045	-	06/23/2025 16:40	CME,NIC2
80	I2535803-04 WG2078705	2.500	2.500	2.500	-0.0026	0.1129	0.045	-	06/23/2025 16:44	CME,NIC2
81	I2536431-02 WG2078705	2.500	2.500	2.500	0.1664	0.2890	0.116	-	06/23/2025 16:47	CME,NIC2
82	I2536431-04 WG2078705	2.500	2.500	2.500	-0.0028	0.1127	0.045	-	06/23/2025 16:50	CME,NIC2
83	I2536431-05 WG2078705	2.500	2.500	2.500	-0.0009	0.1147	0.046	-	06/23/2025 16:54	CME,NIC2
84	I2536431-07 WG2078705	2.500	2.500	2.500	0.0100	0.1260	0.050	-	06/23/2025 16:57	CME,NIC2
85	Check STD(5ug/L)	2.500	2.500	2.500	11.9145	12.5323	5.013	100.3	06/23/2025 17:00	CME,NIC2
86	Check Blank	2.500	2.500	2.500	-0.0008	0.1148	0.046	-	06/23/2025 17:04	CME,NIC2
87	I2537007-01 WG2078705	2.500	2.500	2.500	-0.0067	0.1086	0.043	-	06/23/2025 17:07	CME,NIC2
88	I2537007-20 WG2078705	2.500	2.500	2.500	-0.0052	0.1102	0.044	-	06/23/2025 17:10	CME,NIC2
89	WG2082141-1 WG2082141	2.500	2.500	2.500	0.0435	0.1609	0.064	-	06/23/2025 17:14	CME,NIC2
90	WG2082141-2 WG2082141	2.500	2.500	2.500	2.4377	2.6560	1.062	-	06/23/2025 17:17	CME,NIC2
91	L2537039-01 WG2082141	2.500	2.500	2.500	0.2793	0.4067	0.163	-	06/23/2025 17:20	CME,NIC2
92	WG2082141-3 WG2082141	2.500	2.500	2.500	11.9576	12.5772	5.031	-	06/23/2025 17:24	CME,NIC2
93	WG2082141-4 WG2082141	2.500	2.500	2.500	0.0665	0.1849	0.074	-	06/23/2025 17:27	CME,NIC2
94	L2537039-04 WG2082141	2.500	2.500	2.500	0.0533	0.1711	0.068	-	06/23/2025 17:30	CME,NIC2
95	L2537039-07 WG2082141	2.500	2.500	2.500	0.0482	0.1658	0.066	-	06/23/2025 17:34	CME,NIC2
96	L2537039-10 WG2082141	2.500	2.500	2.500	0.0963	0.2160	0.086	-	06/23/2025 17:37	CME,NIC2
97	Check STD(5ug/L)	2.500	2.500	2.500	11.8309	12.4452	4.978	99.6	06/23/2025 17:40	CME,NIC2
98	Check Blank	2.500	2.500	2.500	0.0006	0.1162	0.046	-	06/23/2025 17:44	CME,NIC2
99	WG2082229-1 WG2082229	2.500	2.500	2.500	0.0190	0.1354	0.054	-	06/23/2025 17:47	CME,NIC2
100	WG2082229-2 WG2082229	2.500	2.500	2.500	2.2579	2.4687	0.987	-	06/23/2025 17:50	CME,NIC2
101	WG2082229-3 WG2082229	2.500	2.500	2.500	2.2800	2.4917	0.997	-	06/23/2025 17:53	CME,NIC2
102	L2537016-01 WG2082229	2.500	2.500	2.500	0.2606	0.3872	0.155	-	06/23/2025 17:57	CME,NIC2

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
103	L2537016-02 WG2082229	2.500	2.500	2.500	0.1193	0.2399	0.096	-	06/23/2025 18:00	CME,NIC2
104	L2537025-01 WG2082229	2.500	2.500	2.500	0.0645	0.1828	0.073	-	06/23/2025 18:03	CME,NIC2
105	L2537025-02 WG2082229	2.500	2.500	2.500	0.0280	0.1448	0.058	-	06/23/2025 18:07	CME,NIC2
106	L2537025-03 WG2082229	2.500	2.500	2.500	0.0248	0.1414	0.057	-	06/23/2025 18:10	CME,NIC2
107	WG2081458-1 WG2081458	2.500	2.500	2.500	0.0002	0.1158	0.046	-	06/23/2025 18:13	CME,NIC2
108	WG2081458-2 WG2081458	2.500	2.500	2.500	2.2837	2.4956	0.998	-	06/23/2025 18:17	CME,NIC2
109	xCheck STD(5ug/L)	2.500	2.500	2.500	3.1601	3.4089	1.364	-	06/23/2025 18:20	CME,NIC2/Check STD En
110	Check STD(5ug/L)	2.500	2.500	2.500	12.0760	12.7006	5.080	101.6	06/23/2025 18:50	CME,NIC2
111	Check Blank	2.500	2.500	2.500	0.0042	0.1200	0.048	-	06/23/2025 18:53	CME,NIC2
112	L2538382-06 WG2081458	2.500	2.500	2.500	0.0019	0.1176	0.047	-	06/23/2025 18:57	CME,NIC2
113	WG2081458-3 WG2081458	2.500	2.500	2.500	11.3408	11.9344	4.774	-	06/23/2025 19:00	CME,NIC2
114	WG2081458-4 WG2081458	2.500	2.500	2.500	11.5225	12.1238	4.850	-	06/23/2025 19:03	CME,NIC2
115	L2538382-01 WG2081458	2.500	2.500	2.500	0.0043	0.1201	0.048	-	06/23/2025 19:07	CME,NIC2
116	L2538382-02 WG2081458	2.500	2.500	2.500	0.0024	0.1181	0.047	-	06/23/2025 19:10	CME,NIC2
117	L2538382-03 WG2081458	2.500	2.500	2.500	0.0038	0.1196	0.048	-	06/23/2025 19:13	CME,NIC2
118	L2538382-04 WG2081458	2.500	2.500	2.500	0.0037	0.1195	0.048	-	06/23/2025 19:16	CME,NIC2
119	L2538382-05 WG2081458	2.500	2.500	2.500	0.0043	0.1201	0.048	-	06/23/2025 19:20	CME,NIC2
120	L2538382-07 WG2081458	2.500	2.500	2.500	0.0014	0.1171	0.047	-	06/23/2025 19:23	CME,NIC2
121	Check STD(5ug/L)	2.500	2.500	2.500	11.8869	12.5035	5.001	100.0	06/23/2025 19:26	CME,NIC2
122	Check Blank	2.500	2.500	2.500	0.0022	0.1179	0.047	-	06/23/2025 19:30	CME,NIC2

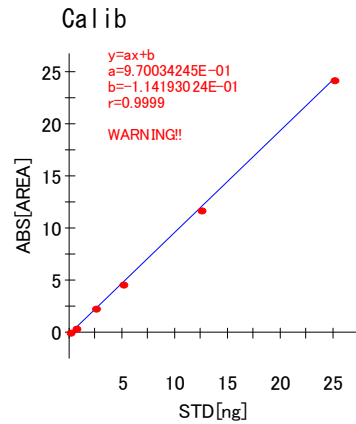
Title :
Date : 06/27/2025
Name :

Method

STD
HONH3CI : 0.0mL
(1+1) H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

SMP
HONH3CI : 0.0mL
(1+1) H2SO4 : 0.0mL
10w/v% SnCl2 : 0.3mL

Measurement Time(sec) : 120sec



STD

No.	STD [ug/L]	SVOL [mL]	CVOL [mL]	DVOL [mL]	STD [ng]	AREA [ON]	MEAS [ng]	Dev [%]	M. TIME	Note
1	0.000	2.500	2.500	2.500	0.000	0.0068	0.1247	-	06/27/2025 06:44	CME,NIC3
2	0.200	2.500	2.500	2.500	0.500	0.4521	0.5838	16.8	06/27/2025 06:47	CME,NIC3
3	1.000	2.500	2.500	2.500	2.500	2.2687	2.4565	1.7	06/27/2025 06:51	CME,NIC3
4	2.000	2.500	2.500	2.500	5.000	4.6806	4.9429	1.1	06/27/2025 06:54	CME,NIC3
5	5.000	2.500	2.500	2.500	12.500	11.7745	12.2560	2.0	06/27/2025 06:57	CME,NIC3
6	10.000	2.500	2.500	2.500	25.000	24.2687	25.1361	0.5	06/27/2025 07:01	CME,NIC3

SMP

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recover [%]	M. TIME	Note
1	ICV	2.500	2.500	2.500	7.2808	7.6234	3.049	-	06/27/2025 07:27	CME,NIC3
2	ICB	2.500	2.500	2.500	0.0064	0.1243	0.050	-	06/27/2025 07:30	CME,NIC3
3	WG2082461-1 WG2082461	2.500	2.500	2.500	0.0076	0.1256	0.050	-	06/27/2025 07:51	CME,NIC3
4	WG2082461-2 WG2082461	2.500	2.500	2.500	2.2998	2.4886	0.995	-	06/27/2025 07:55	CME,NIC3
5	WG2082461-3 WG2082461	2.500	2.500	2.500	2.3917	2.5833	1.033	-	06/27/2025 07:58	CME,NIC3
6	L2538975-01 WG2082461	2.500	2.500	2.500	0.0095	0.1275	0.051	-	06/27/2025 08:01	CME,NIC3

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
7	WG2084039-1 WG2084039	2.500	2.500	2.500	0.0037	0.1215	0.049	-	06/27/2025 08:53	CME,NIC3
8	WG2084039-2 WG2084039	2.500	2.500	2.500	2.0764	2.2583	0.903	-	06/27/2025 08:56	CME,NIC3
9	L2538382-06 WG2084039	2.500	2.500	2.500	0.0019	0.1197	0.048	-	06/27/2025 09:00	CME,NIC3
10	WG2084039-3 WG2084039	2.500	2.500	2.500	21.5195	22.3020	8.921	-	06/27/2025 09:03	CME,NIC3
11	WG2084039-4 WG2084039	2.500	2.500	2.500	21.4936	22.2753	8.910	-	06/27/2025 09:06	CME,NIC3
12	L2538382-01 WG2084039	2.500	2.500	2.500	0.0070	0.1249	0.050	-	06/27/2025 09:10	CME,NIC3
13	Check STD(5ug/L)	2.500	2.500	2.500	11.7912	12.2732	4.909	98.2	06/27/2025 09:13	CME,NIC3
14	Check Blank	2.500	2.500	2.500	0.0032	0.1210	0.048	-	06/27/2025 09:16	CME,NIC3
15	L2538382-02 WG2084039	2.500	2.500	2.500	0.0055	0.1234	0.049	-	06/27/2025 09:20	CME,NIC3
16	L2538382-03 WG2084039	2.500	2.500	2.500	0.0038	0.1216	0.049	-	06/27/2025 09:23	CME,NIC3
17	L2538382-04 WG2084039	2.500	2.500	2.500	0.0035	0.1213	0.049	-	06/27/2025 09:26	CME,NIC3
18	L2538382-05 WG2084039	2.500	2.500	2.500	0.0024	0.1202	0.048	-	06/27/2025 09:30	CME,NIC3
19	L2538382-07 WG2084039	2.500	2.500	2.500	0.0061	0.1240	0.050	-	06/27/2025 09:33	CME,NIC3
20	L2539680-01 WG2084039	2.500	2.500	2.500	0.0017	0.1195	0.048	-	06/27/2025 09:36	CME,NIC3
21	WG2082832-1 WG2082832	2.500	2.500	2.500	0.0005	0.1182	0.047	-	06/27/2025 09:48	CME,NIC3
22	WG2082832-2 WG2082832	2.500	2.500	2.500	2.3479	2.5382	1.015	-	06/27/2025 09:51	CME,NIC3
23	WG2082832-3 WG2082832	2.500	2.500	2.500	2.3342	2.5240	1.010	-	06/27/2025 09:54	CME,NIC3
24	L2536192-01 WG2082832	2.500	2.500	2.500	0.0201	0.1384	0.055	-	06/27/2025 09:58	CME,NIC3
25	Check STD(5ug/L)	2.500	2.500	2.500	12.0939	12.5852	5.034	100.7	06/27/2025 10:01	CME,NIC3
26	Check Blank	2.500	2.500	2.500	0.0037	0.1215	0.049	-	06/27/2025 10:04	CME,NIC3
27	L2536192-02 WG2082832	2.500	2.500	2.500	0.0040	0.1218	0.049	-	06/27/2025 10:08	CME,NIC3
28	L2536192-03 WG2082832	2.500	2.500	2.500	0.0830	0.2033	0.081	-	06/27/2025 10:11	CME,NIC3
29	L2536192-04 WG2082832	2.500	2.500	2.500	-0.0067	0.1108	0.044	-	06/27/2025 10:14	CME,NIC3
30	L2536192-05 WG2082832	2.500	2.500	2.500	0.0884	0.2089	0.084	-	06/27/2025 10:18	CME,NIC3
31	L2536192-06 WG2082832	2.500	2.500	2.500	-0.0119	0.1055	0.042	-	06/27/2025 10:21	CME,NIC3
32	L2538728-01 WG2082832	2.500	2.500	2.500	0.0017	0.1195	0.048	-	06/27/2025 10:24	CME,NIC3
33	L2538728-02 WG2082832	2.500	2.500	2.500	0.0074	0.1253	0.050	-	06/27/2025 10:27	CME,NIC3
34	WG2083469-1 WG2083469	2.500	2.500	2.500	0.0282	0.1468	0.059	-	06/27/2025 10:49	CME,NIC3
35	WG2083469-2 WG2083469	2.500	2.500	2.500	2.3453	2.5355	1.014	-	06/27/2025 10:53	CME,NIC3
36	L2536289-01 WG2083469	2.500	2.500	2.500	0.0536	0.1730	0.069	-	06/27/2025 10:56	CME,NIC3
37	Check STD(5ug/L)	2.500	2.500	2.500	12.1398	12.6325	5.053	101.1	06/27/2025 10:59	CME,NIC3
38	Check Blank	2.500	2.500	2.500	0.0044	0.1223	0.049	-	06/27/2025 11:03	CME,NIC3

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
39	WG2083469-3 WG2083469	2.500	2.500	2.500	11.5607	12.0355	4.814	-	06/27/2025 11:06	CME,NIC3
40	WG2083469-4 WG2083469	2.500	2.500	2.500	0.0016	0.1194	0.048	-	06/27/2025 11:09	CME,NIC3
41	WG2084195-1 WG2084195	2.500	2.500	2.500	-0.0004	0.1173	0.047	-	06/27/2025 11:13	CME,NIC3
42	WG2084195-2 WG2084195	2.500	2.500	2.500	2.2145	2.4006	0.960	-	06/27/2025 11:16	CME,NIC3
43	L2537840-01 WG2084195	2.500	2.500	2.500	0.1571	0.2797	0.112	-	06/27/2025 11:19	CME,NIC3
44	WG2084195-3 WG2084195	2.500	2.500	2.500	11.3639	11.8327	4.733	-	06/27/2025 11:22	CME,NIC3
45	WG2084195-4 WG2084195	2.500	2.500	2.500	0.1356	0.2575	0.103	-	06/27/2025 11:26	CME,NIC3
46	WG2084203-1 WG2084203	2.500	2.500	2.500	0.0105	0.1285	0.051	-	06/27/2025 11:29	CME,NIC3
47	WG2084203-2 WG2084203	2.500	2.500	2.500	2.2929	2.4815	0.993	-	06/27/2025 11:32	CME,NIC3
48	L2539013-01 WG2084203	2.500	2.500	2.500	0.0104	0.1284	0.051	-	06/27/2025 11:36	CME,NIC3
49	Check STD(5ug/L)	2.500	2.500	2.500	11.6988	12.1779	4.871	97.4	06/27/2025 11:39	CME,NIC3
50	Check Blank	2.500	2.500	2.500	0.0020	0.1198	0.048	-	06/27/2025 11:42	CME,NIC3
51	WG2084203-3 WG2084203	2.500	2.500	2.500	11.1666	11.6293	4.652	-	06/27/2025 11:46	CME,NIC3
52	WG2084203-4 WG2084203	2.500	2.500	2.500	0.0093	0.1273	0.051	-	06/27/2025 11:49	CME,NIC3
53	L2539119-01 WG2084203	2.500	2.500	2.500	0.0062	0.1241	0.050	-	06/27/2025 11:52	CME,NIC3
54	L2539120-01 WG2084203	2.500	2.500	2.500	0.0084	0.1264	0.051	-	06/27/2025 11:55	CME,NIC3
55	L2539120-02 WG2084203	2.500	2.500	2.500	0.0112	0.1293	0.052	-	06/27/2025 11:59	CME,NIC3
56	L2537861-01 WG2083468	2.500	2.500	2.500	0.0085	0.1265	0.051	-	06/27/2025 12:02	CME,NIC3
57	L2538031-01 WG2083468	2.500	2.500	2.500	0.0042	0.1221	0.049	-	06/27/2025 12:05	CME,NIC3
58	WG2082586-1 WG2082586	2.500	2.500	2.500	0.0024	0.1202	0.048	-	06/27/2025 12:09	CME,NIC3
59	WG2082586-2 WG2082586	2.500	2.500	2.500	2.4907	2.6854	1.074	-	06/27/2025 12:12	CME,NIC3
60	L2536730-01 WG2082586	2.500	2.500	2.500	1.8275	2.0017	0.801	-	06/27/2025 12:15	CME,NIC3
61	Check STD(5ug/L)	2.500	2.500	2.500	11.8441	12.3277	4.931	98.6	06/27/2025 12:19	CME,NIC3
62	Check Blank	2.500	2.500	2.500	-0.0007	0.1170	0.047	-	06/27/2025 12:22	CME,NIC3
63	WG2082586-3 WG2082586	2.500	2.500	2.500	13.5964	14.1341	5.654	-	06/27/2025 12:25	CME,NIC3
64	WG2082586-4 WG2082586	2.500	2.500	2.500	13.7134	14.2547	5.702	-	06/27/2025 12:28	CME,NIC3
65	L2537926-04 WG2082586	2.500	2.500	2.500	1.0863	1.2376	0.495	-	06/27/2025 12:32	CME,NIC3
66	L2537926-05 WG2082586	2.500	2.500	2.500	0.5787	0.7143	0.286	-	06/27/2025 12:35	CME,NIC3
67	L2537926-06 WG2082586	2.500	2.500	2.500	0.1454	0.2676	0.107	-	06/27/2025 12:38	CME,NIC3
68	L2537926-07 WG2082586	2.500	2.500	2.500	0.0127	0.1308	0.052	-	06/27/2025 12:42	CME,NIC3
69	L2537926-08 WG2082586	2.500	2.500	2.500	0.2409	0.3661	0.146	-	06/27/2025 12:45	CME,NIC3
70	L2539000-01 WG2084039	2.500	2.500	2.500	-0.0025	0.1151	0.046	-	06/27/2025 13:02	CME,NIC3

No.	NAME	SVOL [mL]	CVOL [mL]	DVOL [mL]	AREA [ON]	MEAS [ng]	CONC [ug/L]	Recovery [%]	M. TIME	Note
71	WG2084284-1 WG2084284	2.500	2.500	2.500	-0.0002	0.1175	0.047	-	06/27/2025 13:05	CME,NIC3
72	WG2084284-2 WG2084284	2.500	2.500	2.500	2.0628	2.2442	0.898	-	06/27/2025 13:08	CME,NIC3
73	Check STD(5ug/L)	2.500	2.500	2.500	11.8661	12.3504	4.940	98.8	06/27/2025 13:11	CME,NIC3
74	Check Blank	2.500	2.500	2.500	-0.0017	0.1160	0.046	-	06/27/2025 13:15	CME,NIC3

MERCURY TRUE VALUE CRITERIA

ICV	3 ug/l
LCSW	1 ug/l
MS	1 ug/l
CCV	5 ug/l

As of 6/1/13, Mercury True Value criteria is as follows:

ICV	3 ug/l
LCSW	1 ug/l
MS(aq)	5 ug/l
MS(soil)	1 ug/l
CCV	10 ug/l

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D102-540
Certificate Issue Date: June 22, 2018
Expiration Date: January 31, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value ¹	Reference Value	Uncertainty ²	QC Performance Acceptance Limits ³	PT Performance Acceptance Limits ⁴
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8160	6.36	3960 - 12400	4080 - 12200
Antimony	120	60.9	9.42	0.822 - 121	12.0 - 166
Arsenic	144	135	5.08	112 - 158	94.6 - 176
Barium	469	443	6.77	366 - 521	332 - 554
Beryllium	207	197	5.86	164 - 229	148 - 246
Boron	213	174	12.6	127 - 221	105 - 244
Cadmium	224	204	6.65	169 - 240	153 - 256
Calcium	5190	4830	9.12	3950 - 5700	3510 - 6150
Chromium	138	132	8.56	109 - 155	92.2 - 171
Cobalt	182	179	7.93	151 - 207	134 - 224
Copper	191	184	6.72	155 - 213	138 - 230
Iron	15000	14400	10.7	8770 - 20000	5120 - 23600
Lead	225	216	7.72	178 - 254	159 - 274
Magnesium	2570	2340	6.13	1780 - 2900	1460 - 3230
Manganese	331	323	6.71	266 - 380	242 - 404
Mercury	16.8	13.2	16.0	8.64 - 17.7	7.89 - 18.5
Molybdenum	193	175	2.39	141 - 209	125 - 226
Nickel	163	152	5.95	126 - 178	106 - 197
Potassium	2420	2050	6.31	1440 - 2660	1210 - 2890
Selenium	81.9	74.9	4.13	59.3 - 90.5	47.0 - 103
Silver	57.6	53.9	9.00	43.0 - 64.8	37.8 - 70.0
Sodium	161	149	12.1	111 - 188	57.7 - 241
Strontium	100	96.2	4.04	78.1 - 114	69.0 - 123
Thallium	253	232	3.54	188 - 276	168 - 296

▪ Certificate of Analysis ▪

Parameter	Certified Value ¹	Reference Value	Uncertainty ²	QC Performance Acceptance Limits ³	PT Performance Acceptance Limits ⁴
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	146	134	10.8	106 - 163	79.5 - 189
Titanium	449	340	7.20	70.2 - 609	44.9 - 711
Uranium	114	113	7.10	85.5 - 140	71.9 - 153
Vanadium	180	172	8.85	137 - 207	126 - 218
Zinc	217	211	6.58	171 - 250	147 - 274

ANALYTICAL VERIFICATION

Parameter	Certified Value ¹	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery ⁵	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8160	80.8	138	-	-
Antimony	120	60.9	50.8	135	-	-
Arsenic	144	135	93.8	184	-	-
Barium	469	443	94.5	158	-	-
Beryllium	207	197	95.0	148	-	-
Boron	213	174	81.8	107	-	-
Cadmium	224	204	91.3	199	-	-
Calcium	5190	4830	93.0	122	-	-
Chromium	138	132	95.5	172	-	-
Cobalt	182	179	98.4	140	-	-
Copper	191	184	96.3	183	-	-
Iron	15000	14400	95.6	133	-	-
Lead	225	216	96.2	204	-	-
Magnesium	2570	2340	91.2	122	-	-
Manganese	331	323	97.6	147	-	-
Mercury	16.8	13.2	78.3	128	-	-
Molybdenum	193	175	90.8	143	-	-
Nickel	163	152	93.1	185	-	-
Potassium	2420	2050	84.7	121	-	-
Selenium	81.9	74.9	91.5	163	-	-

▪ Certificate of Analysis ▪

Parameter	Certified Value ¹	Proficiency Testing Study		n	NIST Traceability	
		Mean	Recovery ⁵		SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	57.6	53.9	93.6	150	-	-
Sodium	161	149	92.8	105	-	-
Strontium	100	96.2	96.2	90	-	-
Thallium	253	232	91.6	147	-	-
Tin	146	134	92.0	100	-	-
Titanium	449	340	75.6	93	-	-
Uranium	114	113	98.8	35	-	-
Vanadium	180	172	95.4	139	-	-
Zinc	217	211	97.0	180	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.

Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100

The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Quality Officer

Matthew Seebeck




ISO/IEC GUIDE 34:2009

ISO/IEC 17025:2005



Page 3 of 3 Lot: D102-540



A Waters Company

Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D105-540
Certificate Issue Date: March 19, 2019
Expiration Date: October 12, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value ¹	Reference Value	Uncertainty ²	QC Performance Acceptance Limits ³	PT Performance Acceptance Limits ⁴
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8800	8.32	4600 - 13000	4470 - 13100
Antimony	282	147	7.70	6.17 - 289	28.2 - 366
Arsenic	155	143	6.34	119 - 168	100 - 186
Barium	439	415	5.37	343 - 488	311 - 519
Beryllium	192	179	2.78	149 - 210	134 - 224
Boron	216	160	7.08	113 - 208	96.1 - 238
Cadmium	61.5	56.2	0.528	46.6 - 65.9	42.2 - 70.3
Calcium	5190	4960	6.64	4090 - 5840	3610 - 6310
Chromium	104	101	4.75	83.2 - 118	70.5 - 131
Cobalt	196	189	0.500	158 - 219	141 - 236
Copper	65.0	63.1	2.65	53.1 - 73.1	47.3 - 78.9
Iron	15000	15700	8.94	10100 - 21300	6000 - 25400
Lead	126	125	4.77	103 - 146	89.3 - 160
Magnesium	2570	2410	6.26	1860 - 2970	1520 - 3310
Manganese	387	382	5.37	315 - 449	290 - 474
Mercury	7.76	7.61	13.7	5.53 - 9.69	4.57 - 10.7
Molybdenum	120	107	0.500	86.0 - 128	75.5 - 139
Nickel	117	108	0.514	89.5 - 127	75.7 - 141
Potassium	2420	2110	5.62	1500 - 2720	1260 - 2960
Selenium	84.6	77.9	7.10	61.8 - 94.0	49.2 - 107
Silver	34.6	34.3	8.34	27.8 - 40.9	23.6 - 45.1
Sodium	161	145	6.72	106 - 183	54.3 - 235
Strontium	104	104	3.95	85.1 - 123	74.8 - 133
Thallium	123	113	0.500	91.3 - 134	77.1 - 149

Page 1 of 3 Lot: D105-540

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▪ Certificate of Analysis ▪

Parameter	Certified Value ¹	Reference Value	Uncertainty ²	QC Performance Acceptance Limits ³	PT Performance Acceptance Limits ⁴
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	118	107	0.500	83.5 - 130	61.2 - 152
Titanium	512	421	5.80	114 - 728	0.00 - 854
Uranium	103	104	6.18	79.1 - 128	71.9 - 135
Vanadium	87.3	83.7	8.55	66.8 - 101	54.2 - 113
Zinc	251	240	3.98	194 - 285	168 - 312

ANALYTICAL VERIFICATION

Parameter	Certified Value ¹	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery ⁵	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8800	87.1	193	-	-
Antimony	282	147	52.3	216	-	-
Arsenic	155	143	92.5	240	-	-
Barium	439	415	94.6	222	-	-
Beryllium	192	179	93.4	220	-	-
Boron	216	160	74.2	152	-	-
Cadmium	61.5	56.2	91.5	239	-	-
Calcium	5190	4960	95.6	175	-	-
Chromium	104	101	96.8	237	-	-
Cobalt	196	189	96.2	215	-	-
Copper	65.0	63.1	97.1	237	-	-
Iron	15000	15700	105	195	-	-
Lead	126	125	99.0	243	-	-
Magnesium	2570	2410	93.9	177	-	-
Manganese	387	382	98.7	215	-	-
Mercury	7.76	7.61	98.0	157	-	-
Molybdenum	120	107	89.4	216	-	-
Nickel	117	108	92.5	235	-	-
Potassium	2420	2110	87.2	181	-	-
Selenium	84.6	77.9	92.1	231	-	-

▪ Certificate of Analysis ▪

Parameter	Certified Value ¹	Proficiency Testing Study		n	NIST Traceability	
		Mean	Recovery ⁵		SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	34.6	34.3	99.3	216	-	-
Sodium	161	145	89.8	166	-	-
Strontium	104	104	99.9	148	-	-
Thallium	123	113	91.8	215	-	-
Tin	118	107	90.4	164	-	-
Titanium	512	421	82.2	157	-	-
Uranium	103	104	101	61	-	-
Vanadium	87.3	83.7	95.9	214	-	-
Zinc	251	240	95.5	234	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.

Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100

The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Quality Officer

Matthew Seebeck



ISO/IEC 17025:2005
ISO/IEC 17025:2005


Page 3 of 3 Lot: D105-540

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D109-540
Certificate Issue Date: March 24, 2020
Expiration Date: October 03, 2023
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION

Parameter	Certified Value ¹	Reference Value ⁷	Uncertainty ²	QC Performance Acceptance Limits ³	PT Performance Acceptance Limits ⁴
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8130	2.54	3920 - 12300	4060 - 12200
Antimony	259	134	5.03	4.56 - 264	25.9 - 335
Arsenic	171	156	3.38	129 - 183	109 - 203
Barium	253	239	4.81	197 - 280	179 - 298
Beryllium	179	169	6.59	141 - 198	127 - 212
Boron	114	87.5	10.3	62.5 - 113	52.5 - 125
Cadmium	149	137	5.43	113 - 160	103 - 171
Calcium	5190	4760	3.48	3890 - 5640	3460 - 6070
Chromium	163	154	3.79	126 - 181	108 - 200
Cobalt	127	121	5.07	101 - 141	90.8 - 151
Copper	57.0	54.9	4.13	46.1 - 63.6	41.1 - 68.6
Iron	15000	14100	6.27	8470 - 19700	4920 - 23200
Lead	133	130	3.00	107 - 152	93.3 - 167
Magnesium	2570	2320	3.32	1760 - 2880	1440 - 3200
Manganese	277	269	2.67	221 - 317	199 - 340
Mercury	21.6	20.5	7.72	14.7 - 26.3	12.3 - 28.6
Molybdenum	108	95.4	2.61	76.4 - 114	66.9 - 124
Nickel	58.7	53.9	4.97	44.5 - 63.3	37.7 - 70.0
Potassium	2420	2020	3.06	1410 - 2630	1190 - 2850
Selenium	181	167	5.63	132 - 201	113 - 221
Silver	35.5	33.6	5.20	26.8 - 40.3	23.0 - 44.1
Sodium	161	133	2.76	95.1 - 171	46.5 - 220
Strontium	89.7	87.9	4.59	71.7 - 104	62.8 - 113
Thallium	121	112	5.19	90.3 - 133	76.1 - 147

Certified Reference Material

▪ Certificate of Analysis ▪

Parameter	Certified Value ¹	Reference Value ⁷	Uncertainty ²	QC Performance Acceptance Limits ³	PT Performance Acceptance Limits ⁴
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	83.5	74.0	5.42	57.6 - 90.4	39.7 - 108
Titanium	474	333	7.17	48.6 - 617	46.3 - 620
Uranium	51.9	51.9	3.36	39.6 - 64.3	35.9 - 68.0
Vanadium	68.1	62.6	6.00	49.4 - 75.8	37.0 - 88.3
Zinc	165	158	2.34	128 - 188	111 - 205

▪ Certificate of Analysis ▪

ANALYTICAL VERIFICATION

Parameter	Certified Value ¹	Proficiency Testing Study		n	NIST Traceability	
		Mean	Recovery ⁵		SRM Number ⁶	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8130	80.5	196	-	-
Antimony	259	134	51.8	217	-	-
Arsenic	171	156	91.3	243	-	-
Barium	253	239	94.3	230	-	-
Beryllium	179	169	94.6	223	-	-
Boron	114	87.5	76.7	150	-	-
Cadmium	149	137	91.8	249	-	-
Calcium	5190	4760	91.8	184	-	-
Chromium	163	154	94.4	245	-	-
Cobalt	127	121	95.3	221	-	-
Copper	57.0	54.9	96.2	243	-	-
Iron	15000	14100	93.9	199	-	-
Lead	133	130	97.7	251	-	-
Magnesium	2570	2320	90.1	182	-	-
Manganese	277	269	97.2	220	-	-
Mercury	21.6	20.5	94.7	172	-	-
Molybdenum	108	95.4	88.3	218	-	-
Nickel	58.7	53.9	91.8	242	-	-
Potassium	2420	2020	83.5	187	-	-
Selenium	181	167	92.2	235	-	-
Silver	35.5	33.6	94.5	222	-	-
Sodium	161	133	82.7	177	-	-
Strontium	89.7	87.9	98.0	151	-	-
Thallium	121	112	92.2	219	-	-
Tin	83.5	74.0	88.6	170	-	-
Titanium	474	333	70.3	157	-	-
Uranium	51.9	51.9	100	60	-	-
Vanadium	68.1	62.6	91.9	213	-	-
Zinc	165	158	95.8	238	-	-

▪ Certificate of Analysis ▪

1. The **Certified Values** are the actual gravimetric/volumetric "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** represents an expanded uncertainty and approximates a 95% confidence interval. The uncertainty is based on the characterization, homogeneity and stability characteristics of the product, multiplied by a coverage factor ($k=2$). The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product. The formula used to calculate the expanded uncertainty is:

$$U_{\text{expanded}} = k * \text{SQRT}((U_{\text{char}})^2 + (U_{\text{homogen}})^2 + (U_{\text{LTS}})^2 + (U_{\text{STS}})^2 + (U_{\text{RSS}})^2)$$

Where:

U_{expanded} = Expanded uncertainty.

k = Coverage factor.

U_{char} = Combined standard uncertainty of the manufacturing and/or analytical verification assessment.

U_{homogen} = Standard uncertainty of the homogeneity assessment.

U_{LTS} = Standard uncertainty associated with long-term stability.

U_{STS} = Standard uncertainty associated with short-term (transport) stability.

U_{RSS} = Standard uncertainty associated with repeated sampling of the product (where permitted by product use instructions).

3. The **QC Performance Acceptance Limits (QC PALs™)** are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAP proficiency testing requirements. Use the PT PALs™ when analyzing this certified reference material alongside USEPA and NELAP compliant PT study materials. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and therefore, the acceptance limits of this certified reference material and any PT study material may differ relative to their difference in concentrations.

5. The **PT Performance Data** include the mean value, percent recovery and number of data points reported by laboratories in our Proficiency Testing study compared to the Certified Values. In the event this lot was not used in a proficiency testing scheme, the data displayed was generated internally by ERA.

6. Where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. **Analytical Traceability Recovery (%)** = $[(\% \text{ recovery ERA certified reference material}) / (\% \text{ recovery NIST SRM})] * 100$

The traceability data shown were compiled by analyzing this ERA certified reference material and/or its associated stock solution(s) against the applicable NIST SRMs.

7. The **Reference Values** are equal to the mean recoveries for the parameters as determined in an interlaboratory round robin study. The **Reference Values** represent the expected performance for the analytes in this standard. ERA recommends using the **Reference Values** when assessing or evaluating your results.

8. **Metrological Traceability.** This certified reference material is metrologically traceable to NIST mass reference materials through an unbroken chain of comparisons.

9. For additional information on this product such as intended use, storage information, instructions for use, minimum sample size, and safety information, please refer to the Product Use Instructions provided.

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Quality Officer

Matthew Seebeck

Brian Miller

Matthew Seebeck





A Waters Company

Certified Reference Material

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D113-540
Certificate Issue Date: March 23, 2021
Expiration Date: October 13, 2024
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 090119.

CERTIFICATION



Parameter	Certified Value ¹	Reference Value	Uncertainty ²	QC Performance Acceptance Limits ³	PT Performance Acceptance Limits ⁴
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8630	12.0	4420 - 12800	4370 - 12900
Antimony	256	129	16.8	0.742 - 257	25.6 - 323
Arsenic	91.6	84.5	15.1	70.0 - 99.0	59.2 - 110
Barium	259	249	9.94	206 - 292	187 - 311
Beryllium	175	163	3.89	135 - 191	122 - 204
Boron	95.7	76.7	12.8	55.7 - 97.7	48.0 - 107
Cadmium	107	99.0	11.5	82.2 - 116	74.2 - 124
Calcium	5190	4760	11.8	3890 - 5640	3460 - 6070
Chromium	129	122	14.6	101 - 144	85.7 - 159
Cobalt	63.6	61.7	11.5	51.9 - 71.6	46.3 - 77.2
Copper	62.3	61.5	12.3	51.9 - 71.0	46.1 - 76.8
Iron	15000	14500	15.7	8860 - 20100	5190 - 23800
Lead	122	123	13.9	103 - 144	88.3 - 158
Lithium	6.42	7.30	18.7	5.13 - 9.48	3.20 - 11.4
Magnesium	2570	2360	8.87	1810 - 2920	1480 - 3250
Manganese	470	456	13.4	375 - 538	350 - 563
Mercury	22.1	18.9	14.5	13.0 - 24.8	11.3 - 26.4
Molybdenum	80.1	72.8	11.0	58.7 - 87.0	50.5 - 95.2
Nickel	143	135	14.2	112 - 158	94.7 - 176
Potassium	2420	2090	8.21	1480 - 2700	1240 - 2940
Selenium	128	121	11.7	96.9 - 146	80.4 - 162
Silver	45.4	44.1	6.69	35.5 - 52.8	30.7 - 57.6
Sodium	161	136	9.34	97.4 - 174	48.1 - 223
Strontium	82.2	82.3	8.42	67.4 - 97.1	58.6 - 106

Page 1 of 4 Lot: D113-540

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Certified Reference Material

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Parameter	Certified Value ¹	Reference Value	Uncertainty ²	QC Performance Acceptance Limits ³	PT Performance Acceptance Limits ⁴
	mg/kg	mg/kg	%	mg/kg	mg/kg
Thallium	154	144	7.54	117 - 171	101 - 187
Tin	89.7	79.8	14.0	62.2 - 97.4	43.5 - 116
Titanium	705	546	10.3	123 - 969	118 - 974
Uranium	29.5	30.9	3.38	23.9 - 37.9	21.3 - 40.5
Vanadium	196	186	14.2	148 - 224	138 - 235
Zinc	307	295	10.4	240 - 351	207 - 384

Calculation of 7470A Mercury

Calculate Mercury concentration from the daily calibration curve.
The curve is generated utilizing a straight-line equation defined as:

$$A = k1 + k2C$$

Where:

A = Average peak height of the sample/standard integrations

C = Sample/Standard Concentration, $\mu\text{g/L}$

k1 = y-intercept

k2 = slope

The instrument will plot peak height against concentration ($\mu\text{g/L}$).
The result is generated in $\mu\text{g/L}$. This value is divided by 1000 to convert the units to mg/L . If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

$$\text{Result, mg/L} = (\text{concentration, } \mu\text{g/L}) \times (1\text{mg}/1000\mu\text{g}) \times (\text{DF})$$

Calculation of 7471B Mercury

Calculate Mercury concentration from the daily calibration curve.
The curve is generated utilizing a straight-line equation defined as:

$$A = k1 + k2C$$

Where:

A = Average peak height of the sample/standard integrations

C = Sample/Standard Concentration, $\mu\text{g/L}$

k1 = y-intercept

k2 = slope

The instrument will plot peak height against concentration ($\mu\text{g/L}$).
The result is generated in $\mu\text{g/L}$. This value is divided by 1000 to convert the units to mg/L . If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

$$\text{Result, mg/L} = (\text{concentration, } \mu\text{g/L}) \times (1\text{mg}/1000\mu\text{g}) \times (\text{DF})$$

The result in mg/kg is calculated on a dry weight basis using the sample weight digested(Wt), the final volume of the digestate(FV), and the percent total solids(%TS).

$$\text{Result, mg/kg, wet} = ((\text{result, mg/L}) \times (\text{FV})) / \text{Wt}$$

$$\text{Result, mg/kg, dry wt} = (\text{Result, mg/kg wet}) / (\% \text{TS})$$

No.	Sample No. NAME
1	1 STD
2	2 STD
3	3 STD
4	4 STD
5	5 STD
6	6 STD
1	7 XICV
2	8 XICB
3	9 ICV
4	10 ICB
5	11 WG2081838-1 WG2081838
6	12 WG2081838-2 WG2081838
7	13 L2537418-01 WG2081838
8	14 WG2081838-3 WG2081838
9	15 WG2081838-4 WG2081838
10	16 L2536930-02 WG2081838
11	17 L2536930-03 WG2081838
12	18 L2536930-04 WG2081838
13	19 Check STD(5ug/L)
14	20 Check Blank
15	21 WG2080389-1 WG2080389
16	22 WG2080389-2 WG2080389
17	23 WG2080389-3 WG2080389
18	24 L2532933-16 WG2080389
19	25 L2532933-17 WG2080389
20	26 L2532933-18 WG2080389
21	27 WG2080728-1 WG2080728
22	28 WG2080728-2 WG2080728
23	29 L2534699-01 WG2080728
24	30 WG2080728-3 WG2080728
25	31 Check STD(5ug/L)
26	32 Check Blank
27	33 WG2080728-4 WG2080728
28	34 WG2082127-1 WG2082127
29	35 WG2082127-2 WG2082127
30	36 L2536930-01 WG2082127
31	37 WG2082127-3 WG2082127
32	38 WG2082127-4 WG2082127
33	39 WG2082130-1 WG2082130
34	40 WG2082130-2 WG2082130
35	41 L2536930-01 WG2082130
36	42 WG2082130-3 WG2082130
37	43 Check STD(5ug/L)

38	44 Check Blank
39	45 WG2082130-4 WG2082130
40	46 L2535887-01 WG2082130
41	47 L2536930-02 WG2082130
42	48 L2536930-03 WG2082130
43	49 L2536930-04 WG2082130
44	50 WG2079362-1 WG2079362
45	51 WG2079362-2 WG2079362
46	52 L2535139-03 WG2079362
47	53 WG2079362-3 WG2079362
48	54 WG2079362-4 WG2079362
49	55 Check STD(5ug/L)
50	56 Check Blank
51	57 L2535139-05 WG2079362
52	58 WG2079362-5 WG2079362
53	59 WG2079362-6 WG2079362
54	60 L2535139-01 WG2079362
55	61 L2535139-02 WG2079362
56	62 L2535139-04 WG2079362
57	63 L2535139-06 WG2079362
58	64 L2535139-07 WG2079362
59	65 L2535139-08 WG2079362
60	66 L2535139-09 WG2079362
61	67 Check STD(5ug/L)
62	68 Check Blank
63	69 L2535139-10 WG2079362
64	70 L2535139-11 WG2079362
65	71 L2535139-12 WG2079362
66	72 L2535139-13 WG2079362
67	73 L2535139-14 WG2079362
68	74 WG2079379-1 WG2079379
69	75 WG2079379-2 WG2079379
70	76 L2535550-01 WG2079379
71	77 WG2079379-3 WG2079379
72	78 WG2079379-4 WG2079379
73	79 Check STD(5ug/L)
74	80 Check Blank
75	1 L2534836-03 WG2079379
76	2 L2535254-12 WG2078705
77	3 L2535803-01 WG2078705
78	4 L2535803-02 WG2078705
79	5 L2535803-03 WG2078705
80	6 L2535803-04 WG2078705
81	7 L2536431-02 WG2078705

82	8	I2536431-04	WG2078705
83	9	I2536431-05	WG2078705
84	10	I2536431-07	WG2078705
85	11	Check STD(5ug/L)	
86	12	Check Blank	
87	13	I2537007-01	WG2078705
88	14	I2537007-20	WG2078705
89	15	WG2082141-1	WG2082141
90	16	WG2082141-2	WG2082141
91	17	L2537039-01	WG2082141
92	18	WG2082141-3	WG2082141
93	19	WG2082141-4	WG2082141
94	20	L2537039-04	WG2082141
95	21	L2537039-07	WG2082141
96	22	L2537039-10	WG2082141
97	23	Check STD(5ug/L)	
98	24	Check Blank	
99	25	WG2082229-1	WG2082229
100	26	WG2082229-2	WG2082229
101	27	WG2082229-3	WG2082229
102	28	L2537016-01	WG2082229
103	29	L2537016-02	WG2082229
104	30	L2537025-01	WG2082229
105	31	L2537025-02	WG2082229
106	32	L2537025-03	WG2082229
107	33	WG2081458-1	WG2081458
108	34	WG2081458-2	WG2081458
109	35	xCheck STD(5ug/L)	
110	35	Check STD(5ug/L)	
111	36	Check Blank	
112	37	L2538382-06	WG2081458
113	38	WG2081458-3	WG2081458
114	39	WG2081458-4	WG2081458
115	40	L2538382-01	WG2081458
116	41	L2538382-02	WG2081458
117	42	L2538382-03	WG2081458
118	43	L2538382-04	WG2081458
119	44	L2538382-05	WG2081458
120	45	L2538382-07	WG2081458
121	47	Check STD(5ug/L)	
122	48	Check Blank	

No.	Sample No. NAME	CURVE:WG2084061
1	1 STD	
2	2 STD	
3	3 STD	
4	4 STD	
5	5 STD	
6	6 STD	
1	7 ICV	
2	8 ICB	
3	9 WG2082461-1 WG2082461	
4	10 WG2082461-2 WG2082461	
5	11 WG2082461-3 WG2082461	
6	12 L2538975-01 WG2082461	
7	13 WG2084039-1 WG2084039	
8	14 WG2084039-2 WG2084039	
9	15 L2538382-06 WG2084039	
10	16 WG2084039-3 WG2084039	
11	17 WG2084039-4 WG2084039	
12	18 L2538382-01 WG2084039	
13	19 Check STD(5ug/L)	
14	20 Check Blank	
15	21 L2538382-02 WG2084039	
16	22 L2538382-03 WG2084039	
17	23 L2538382-04 WG2084039	
18	24 L2538382-05 WG2084039	
19	25 L2538382-07 WG2084039	
20	26 L2539680-01 WG2084039	
21	27 WG2082832-1 WG2082832	
22	28 WG2082832-2 WG2082832	
23	29 WG2082832-3 WG2082832	
24	30 L2536192-01 WG2082832	
25	31 Check STD(5ug/L)	
26	32 Check Blank	
27	33 L2536192-02 WG2082832	
28	34 L2536192-03 WG2082832	
29	35 L2536192-04 WG2082832	
30	36 L2536192-05 WG2082832	
31	37 L2536192-06 WG2082832	
32	38 L2538728-01 WG2082832	
33	39 L2538728-02 WG2082832	
34	40 WG2083469-1 WG2083469	
35	41 WG2083469-2 WG2083469	
36	42 L2536289-01 WG2083469	
37	43 Check STD(5ug/L)	

38	44 Check Blank
39	45 WG2083469-3 WG2083469
40	46 WG2083469-4 WG2083469
41	47 WG2084195-1 WG2084195
42	48 WG2084195-2 WG2084195
43	49 L2537840-01 WG2084195
44	50 WG2084195-3 WG2084195
45	51 WG2084195-4 WG2084195
46	52 WG2084203-1 WG2084203
47	53 WG2084203-2 WG2084203
48	54 L2539013-01 WG2084203
49	55 Check STD(5ug/L)
50	56 Check Blank
51	57 WG2084203-3 WG2084203
52	58 WG2084203-4 WG2084203
53	59 L2539119-01 WG2084203
54	60 L2539120-01 WG2084203
55	61 L2539120-02 WG2084203
56	62 L2537861-01 WG2083468
57	63 L2538031-01 WG2083468
58	64 WG2082586-1 WG2082586
59	65 WG2082586-2 WG2082586
60	66 L2536730-01 WG2082586
61	67 Check STD(5ug/L)
62	68 Check Blank
63	69 WG2082586-3 WG2082586
64	70 WG2082586-4 WG2082586
65	71 L2537926-04 WG2082586
66	72 L2537926-05 WG2082586
67	73 L2537926-06 WG2082586
68	74 L2537926-07 WG2082586
69	75 L2537926-08 WG2082586
70	76 L2539000-01 WG2084039
71	77 WG2084284-1 WG2084284
72	78 WG2084284-2 WG2084284
73	79 Check STD(5ug/L)
74	80 Check Blank



METALS ELN REPORT

Workgroup: WG2081458

Digestion										
Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 245.1	HNO3	24012902	H2SO4	24016430	METALS	METSPIKE	HG2523130928AJTV1	METSPIKE	HG25231309328AJTV1	344
Additional Reagent/Std		K2O8S2	PS2524171015ADG							
		KMnO4	PP2524181252SAM							
		NaCl-NH2OH.HCl	HH2524181340MJR							
			ICV2524161130JDH							

Sample/Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol ml	Spike Amt	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2538382-01 SAMP	06/20/25 11:39	Ashley Croto	NA	25		06/20/25 11:39	5	95.0	06/20/25 13:39	25	
L2538382-02 SAMP	06/20/25 11:39	Ashley Croto	NA	25		06/20/25 11:39	5	95.0	06/20/25 13:39	25	
L2538382-03 SAMP	06/20/25 11:39	Ashley Croto	NA	25		06/20/25 11:39	5	95.0	06/20/25 13:39	25	
L2538382-04 SAMP	06/20/25 11:39	Ashley Croto	NA	25		06/20/25 11:39	5	95.0	06/20/25 13:39	25	
L2538382-05 SAMP	06/20/25 11:39	Ashley Croto	NA	25		06/20/25 11:39	5	95.0	06/20/25 13:39	25	
L2538382-06 SAMP	06/20/25 11:39	Ashley Croto	NA	25		06/20/25 11:39	5	95.0	06/20/25 13:39	25	
L2538382-07 SAMP	06/20/25 11:39	Ashley Croto	NA	25		06/20/25 11:39	5	95.0	06/20/25 13:39	25	
WG2081458-1 BLANK	06/20/25 11:39	Ashley Croto	NA	25		06/20/25 11:39	5	95.0	06/20/25 13:39	25	ELN: NRS



METALS ELN REPORT

Workgroup: WG2081458

Sample/ Type	Digestion Date	Analyst	Lab Filtration Date	Sample Vol	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperatur e (C)	Stop Date/Time	Final Vol	Comments
WG2081458-2 LCS	06/20/25 11:39	Ashley Croto	NA	25	0.25	06/20/25 11:39	5	95.0	06/20/25 13:39	25	
WG2081458-3 MS	06/20/25 11:39	Ashley Croto	NA	25	1.25	06/20/25 11:39	5	95.0	06/20/25 13:39	25	
WG2081458-4 MSD	06/20/25 11:39	Ashley Croto	NA	25	1.25	06/20/25 11:39	5	95.0	06/20/25 13:39	25	

Reagent	Actual Volume	Units
Sulfuric Acid (H2SO4)	1.25	ml
Nitric Acid (HNO3)	.625	ml
Potassium Permanganal	3.75	ml
Potassium Persulfate (K:	2	ml
NaCl-Hydroxylamine Hy	1.5	ml



METALS ELN REPORT

Workgroup: WG2084039

Digestion										
Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Pipette Id
EPA 245.1	HNO3	EPA 245.1	H2SO4	24016430	METALS	METSPIKE	HG2524163020AJTV2	METSPIKE	HG2524163020AJTV2	328, 344
Additional Reagent/Std		K2O8S2	PS2525231214ADG							
		KMnO4	PP2525260820SAM							
		NaCl-NH2OH.HCl	HH2525260955MJR							
			ICV2525232138GAN							

Sample/Type	Digestion Date	Analyst	Sample Vol ml	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2536636-01 SAMP	06/26/25 20:23	Ashley Croto	25		06/26/25 20:23	5	95.0	06/26/25 22:23	25	
L2536641-01 SAMP	06/26/25 20:23	Ashley Croto	25		06/26/25 20:23	5	95.0	06/26/25 22:23	25	
L2537369-01 SAMP	06/26/25 20:23	Ashley Croto	25		06/26/25 20:23	5	95.0	06/26/25 22:23	25	
L2537369-02 SAMP	06/26/25 20:23	Ashley Croto	25		06/26/25 20:23	5	95.0	06/26/25 22:23	25	
L2537369-03 SAMP	06/26/25 20:23	Ashley Croto	25		06/26/25 20:23	5	95.0	06/26/25 22:23	25	
L2537369-04 SAMP	06/26/25 20:23	Ashley Croto	25		06/26/25 20:23	5	95.0	06/26/25 22:23	25	
L2538306-01 SAMP	06/26/25 20:23	Ashley Croto	25		06/26/25 20:23	5	95.0	06/26/25 22:23	25	
L2538382-01 SAMP	06/26/25 20:23	Ashley Croto	25		06/26/25 20:23	5	95.0	06/26/25 22:23	25	



METALS ELN REPORT

Workgroup: WG2084039

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L2538382-02 SAMP	06/26/25 20:23	Ashley Croto	25		06/26/25 20:23	5	95.0	06/26/25 22:23	25	
L2538382-03 SAMP	06/26/25 20:23	Ashley Croto	25		06/26/25 20:23	5	95.0	06/26/25 22:23	25	
L2538382-04 SAMP	06/26/25 20:23	Ashley Croto	25		06/26/25 20:23	5	95.0	06/26/25 22:23	25	
L2538382-05 SAMP	06/26/25 20:23	Ashley Croto	25		06/26/25 20:23	5	95.0	06/26/25 22:23	25	
L2538382-06 SAMP	06/26/25 20:23	Ashley Croto	25		06/26/25 20:23	5	95.0	06/26/25 22:23	25	
L2538382-07 SAMP	06/26/25 20:23	Ashley Croto	25		06/26/25 20:23	5	95.0	06/26/25 22:23	25	
L2539000-01 SAMP	06/27/25 10:23	Raldi Cabral	25		06/27/25 10:23	5	95.0	06/27/25 12:23	25	
L2539680-01 WATER	06/26/25 20:23	Ashley Croto	25		06/26/25 20:23	5	95.0	06/26/25 22:23	25	
WG2084039-1 BLANK	06/26/25 20:23	Ashley Croto	25		06/26/25 20:23	5	95.0	06/26/25 22:23	25	ELN:GAN
WG2084039-2 LCS	06/26/25 20:23	Ashley Croto	25	0.25	06/26/25 20:23	5	95.0	06/26/25 22:23	25	
WG2084039-3 MS	06/26/25 20:23	Ashley Croto	25	2.5	06/26/25 20:23	5	95.0	06/26/25 22:23	25	
WG2084039-4 MSD	06/26/25 20:23	Ashley Croto	25	2.5	06/26/25 20:23	5	95.0	06/26/25 22:23	25	



METALS ELN REPORT

Workgroup: WG2084039

Sample/ Type	Digestion Date	Analyst	Sample Vol ml	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
WG2084039-5 MS	06/26/25 20:23	Ashley Croto	25	2.5	06/26/25 20:23	5	95.0	06/26/25 22:23	25	
WG2084039-6 DUP	06/26/25 20:23	Ashley Croto	25		06/26/25 20:23	5	95.0	06/26/25 22:23	25	

Reagent	Actual Volume	Units
Sulfuric Acid (H2SO4)	1.25	ml
Nitric Acid (HNO3)	.625	ml
Potassium Permanganal	3.75	ml
Potassium Persulfate (K:	2	ml
NaCl-Hydroxylamine Hy	1.5	ml

Wet Chemistry

Total Nitrogen Analysis

Results

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-01	Date Collected	: 06/18/25 09:00
Client ID	: MW-8S	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/30/25 13:23
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 107,-	Analyst	: JRO
Lab File ID	: WG2085327.csv	Instrument ID	:
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Total Nitrogen	2.1	0.30	0.30	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-02	Date Collected	: 06/18/25 09:05
Client ID	: MW-8D	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/30/25 13:23
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 107,-	Analyst	: JRO
Lab File ID	: WG2085327.csv	Instrument ID	:
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Total Nitrogen	4.4	0.30	0.30	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-03	Date Collected	: 06/18/25 10:30
Client ID	: MW-5D	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/30/25 13:23
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 107,-	Analyst	: JRO
Lab File ID	: WG2085327.csv	Instrument ID	:
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Total Nitrogen	6.7	0.30	0.30	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-04	Date Collected	: 06/18/25 10:45
Client ID	: PZ-5	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/30/25 13:23
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 107,-	Analyst	: JRO
Lab File ID	: WG2085327.csv	Instrument ID	:
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Total Nitrogen	1.4	0.30	0.30	

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-05	Date Collected	: 06/18/25 13:20
Client ID	: MW-12S	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/30/25 13:23
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 107,-	Analyst	: JRO
Lab File ID	: WG2085327.csv	Instrument ID	:
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Total Nitrogen	3.8	0.30	0.30	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-06	Date Collected	: 06/18/25 13:22
Client ID	: MW-12D	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/30/25 13:23
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 107,-	Analyst	: JRO
Lab File ID	: WG2085327.csv	Instrument ID	:
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Total Nitrogen	4.5	0.30	0.30	



Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-07	Date Collected	: 06/18/25 12:00
Client ID	: DUP_06182025	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/30/25 13:23
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 107,-	Analyst	: JRO
Lab File ID	: WG2085327.csv	Instrument ID	:
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Total Nitrogen	3.9	0.30	0.30	



Sample Raw Data

PACE ANALYTICAL LABS
WET CHEMISTRY DEPARTMENT
TOTAL NITROGEN

Last Change 3/5/13 GFF
File tnitrogen.xlt

Sample #: _____

Client: _____

Analysis: **Total Nitrogen**

Method: *Calculation from TKN & NO3/NO2*

Product: TNITROGEN
Analyte: Total Nitrogen,
Analysis Date: 6/30/2025 13:23
Technician: JRO
Work group: WG2085327
RL: 0.3 mg/L

	Sample Number	TKN (mg/L)	NO3/NO2 (mg/L)	RL Multiplier	Result (mg/L)
SAMP	L2534373-02	1.19	5.9	1.0	7.09
SAMP	L2535000-01	25.4	1	1.0	26.4
SAMP	L2535002-01	24.7	2.51	10.0	27.21
SAMP	L2535003-01	2.62	11.053	5.0	13.673
SAMP	L2535005-01	3.69	9.79	3.3	13.48
SAMP	L2535007-01	19.4	11.9	1.5	31.3
SAMP	L2535008-01	3.85	27.16	5.0	31.01
SAMP	L2535010-01	22.8	66.8	50.0	89.6
	L2538362-01	2.86	0.12	1.0	2.98
SAMP	L2538382-01	0.133	2.1	1.0	2.1
SAMP	L2538382-02	0.142	4.4	1.0	4.4
SAMP	L2538382-03	0	6.7	1.0	6.7
SAMP	L2538382-04	0.185	1.4	1.0	1.4
SAMP	L2538382-05	0	3.8	1.0	3.8
SAMP	L2538382-06	0	4.5	1.0	4.5
SAMP	L2538382-07	0.151	3.9	1.0	3.9
SAMP	L2538805-01	0.142	2.5	1.0	2.5
SAMP	L2538805-02	0.2	1.8	1.0	1.8
SAMP	L2538805-03	0.164	4.1	1.0	4.1
SAMP	L2538805-04	0.151	1.4	1.0	1.4
SAMP	L2538805-05	0.374	0.072	1.0	0.374
SAMP	L2538805-06	0.229	0	1.0	0.229
SAMP	L2539000-01	0.453	5	1.0	5.453
SAMP					

Calculations of Total Nitrogen

Calculate the concentration value based on results for TKN-N and NO₃/NO₂-N.

Aqueous samples:

$$\text{mgTN-N/L} = \text{TKN-N(mg/l)} + \text{NO}_3/\text{NO}_2\text{-N (mg/l)}$$

Soil samples:

$$\text{mgTN-N/Kg} = \text{TKN-N(mg/Kg)} + \text{NO}_3/\text{NO}_2\text{-N(mg/Kg)}$$

Total Kjeldahl Nitrogen Analysis

Results

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-01	Date Collected	: 06/18/25 09:00
Client ID	: MW-8S	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/26/25 17:13
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500NH3-H	Analyst	: AT
Lab File ID	: NH320250626-E	Instrument ID	: LACHAT
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	: 06/25/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Nitrogen, Total Kjeldahl	0.133	0.300	0.066	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-02	Date Collected	: 06/18/25 09:05
Client ID	: MW-8D	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/26/25 17:14
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500NH3-H	Analyst	: AT
Lab File ID	: NH320250626-E	Instrument ID	: LACHAT
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	: 06/25/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Nitrogen, Total Kjeldahl	0.142	0.300	0.066	J

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-03	Date Collected	: 06/18/25 10:30
Client ID	: MW-5D	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/26/25 17:15
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500NH3-H	Analyst	: AT
Lab File ID	: NH320250626-E	Instrument ID	: LACHAT
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	: 06/25/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Nitrogen, Total Kjeldahl	ND	0.300	0.066	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-04	Date Collected	: 06/18/25 10:45
Client ID	: PZ-5	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/26/25 17:16
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500NH3-H	Analyst	: AT
Lab File ID	: NH320250626-E	Instrument ID	: LACHAT
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	: 06/25/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Nitrogen, Total Kjeldahl	0.185	0.300	0.066	J

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-05	Date Collected	: 06/18/25 13:20
Client ID	: MW-12S	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/26/25 17:17
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500NH3-H	Analyst	: AT
Lab File ID	: NH320250626-E	Instrument ID	: LACHAT
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	: 06/25/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Nitrogen, Total Kjeldahl	ND	0.300	0.066	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-06	Date Collected	: 06/18/25 13:22
Client ID	: MW-12D	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/26/25 17:18
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500NH3-H	Analyst	: AT
Lab File ID	: NH320250626-E	Instrument ID	: LACHAT
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	: 06/25/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Nitrogen, Total Kjeldahl	ND	0.300	0.066	U

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-07	Date Collected	: 06/18/25 12:00
Client ID	: DUP_06182025	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/27/25 22:24
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500NH3-H	Analyst	: MRM
Lab File ID	: NH3250627-E1	Instrument ID	: LACHAT
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	: 06/26/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Nitrogen, Total Kjeldahl	0.151	0.300	0.066	J

Form 1

WETCHEM

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Lab ID : WG2083445-1
Client ID : WG2083445-1BLANK
Sample Location :
Sample Matrix : WATER
Analytical Method : 121,4500NH3-H
Lab File ID : NH320250626-E
Sample Amount :
Digestion Method :

Lab Number : L2538382
Project Number : 2232.0006Y005
Date Collected : NA
Date Received : NA
Date Analyzed : 06/26/25 16:59
Dilution Factor : 1
Analyst : AT
Instrument ID : LACHAT
%Solids : N/A
Date Digested : 06/25/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Nitrogen, Total Kjeldahl	0.110	0.300	0.022	J

Form 1

WETCHEM

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Lab ID : WG2083445-3
 Client ID : MW-12DDUP
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 121,4500NH3-H
 Lab File ID : NH320250626-E
 Sample Amount :
 Digestion Method :

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Date Collected : 06/18/25 13:22
 Date Received : 06/18/25
 Date Analyzed : 06/26/25 17:20
 Dilution Factor : 1
 Analyst : AT
 Instrument ID : LACHAT
 %Solids : N/A
 Date Digested : 06/25/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Nitrogen, Total Kjeldahl	0.146	0.300	0.066	J



Form 1

WETCHEM

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Lab ID : WG2083974-1
Client ID : WG2083974-1BLANK
Sample Location :
Sample Matrix : WATER
Analytical Method : 121,4500NH3-H
Lab File ID : NH3250627-E1
Sample Amount :
Digestion Method :

Lab Number : L2538382
Project Number : 2232.0006Y005
Date Collected : NA
Date Received : NA
Date Analyzed : 06/27/25 22:12
Dilution Factor : .3333333333333333
Analyst : MRM
Instrument ID : LACHAT
%Solids : N/A
Date Digested : 06/26/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Nitrogen, Total Kjeldahl	0.083	0.100	0.022	J



Form 1

WETCHEM

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Lab ID : WG2083974-3
Client ID : WG2083974-3 DUP
Sample Location :
Sample Matrix : WATER
Analytical Method : 121,4500NH3-H
Lab File ID : NH3250627-E1
Sample Amount :
Digestion Method :

Lab Number : L2538382
Project Number : 2232.0006Y005
Date Collected : 06/04/25 07:30
Date Received : 06/05/25
Date Analyzed : 06/27/25 22:17
Dilution Factor : 1
Analyst : MRM
Instrument ID : LACHAT
%Solids : N/A
Date Digested : 06/26/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Nitrogen, Total Kjeldahl	0.466	0.300	0.066	

Sample Raw Data

Original Run Filename: OM_6-27-2025_06-01-56PM.OMN Created: 6/27/2025 6:01:56 PM

Original Run Author's Signature: [a1wetcheminstrument]

Current Run Filename: OM_6-27-2025_06-01-56PM.OMN Last Modified: 6/27/2025 6:54:10 PM

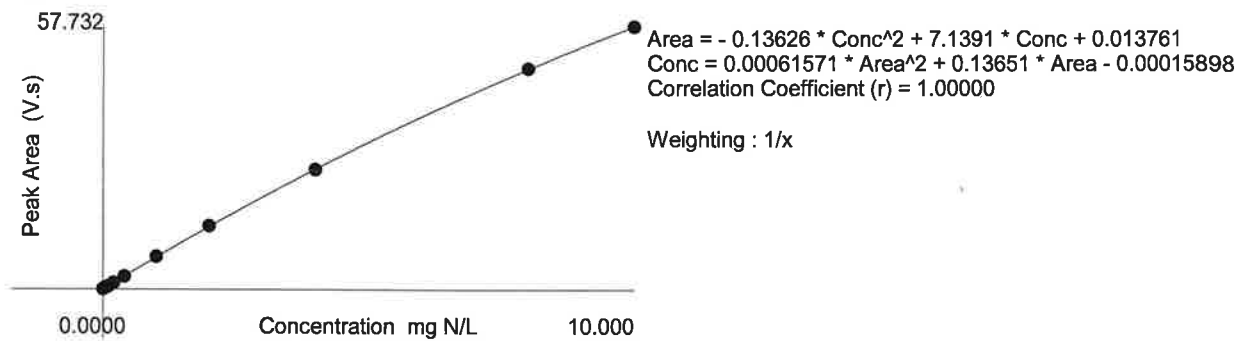
Current Run Author's Signature: [a1wetcheminstrument]

Description: Default New Run

A

Sample	Rep.	Cup No.	Channel 1 Ammonia (mg N/L)	ADF	MDF	Weight
STD 1	1	S1	10.000			
STD 2	1	S2	8.0000			
STD 3	1	S3	4.0000			
STD 4	1	S4	2.0000			
STD 5	1	S5	1.0000			
STD 6	1	S6	0.40000			
STD 7	1	S7	0.20000			
STD 8	1	S8	0.10000			
STD 9	1	S9	0.050000			
STD 10	1	S10	0.0000			
CCV 0.4000	1	S6	0.37515	94%		
Known Conc:			0.40000			
Calibration:			Table/Fig. : 1			
CCV 4.0000	1	S3	3.9629	99%		
Known Conc:			4.0000			
CCB	1	S10	0.012874	✓		
Known Conc:			0.0000			
HI ICV 8.0	1	1	8.0014		100%	
LO ICV 1.0	1	2	1.0144		101%	
ICB	1	3	-0.042706			
WG2083971-1; BLK 6/26	1	4	0.051879		1.50	98%
WG2083971-2; HI LCS; 5X	1	5	19.647		7.50	98%
LO LCS	1	6	1.7615		1.50	
L2534129-06	1	7	0.083897	✓	1.50	
WG2083971-4; 34129.6 MS	1	8	4.4420		1.50	109%
WG2083971-3; 34129.6 DUP	1	9	0.078515	✓	1.50	6%
L2534129-07	1	10	0.078210		1.50	
CCV 0.4000	1	S6	0.37749	94%		
Known Conc:			0.40000			
CCV 4.0000	1	S3	3.9630	99%		
Known Conc:			4.0000			
CCB	1	S10	0.021802	✓		
Known Conc:			0.0000			
WG2083971-6; 34129.7 MS	1	11	4.1920		1.50	105%
WG2083971-5; 34129.7 DUP	1	12	0.14160	✓	1.50	100% (4.44)
L2534373-01	1	13	35.799		7.50	
L2534373-02	1	14	0.14264		1.50	
L2535107-01	1	15	0.40789		1.50	
L2535107-02	1	16	0.44054		1.50	
L2535113-01	1	17	0.35410		1.50	
L2535113-02	1	18	0.34112		1.50	
L2535117-01	1	19	0.33399		1.50	
L2535118-01	1	20	0.32648	95%	1.50	
CCV 0.4000	1	S6	0.37801	95%		
Known Conc:			0.40000			
CCV 4.0000	1	S3	3.9598	99%		
Known Conc:			4.0000			
CCB	1	S10	0.013681	✓		
Known Conc:			0.0000			
L2535122-01	1	21	0.35342		1.50	
L2535124-01	1	22	0.31298		1.50	
L2535127-01	1	23	0.32718		1.50	
L2535130-01	1	24	0.30177		1.50	
L2535134-01	1	25	0.50845		1.50	
L2535134-02	1	26	0.33239		1.50	
L2535134-03	1	27	0.43367		1.50	
L2535134-04	1	28	0.35016		1.50	
L2535134-05	1	29	0.34993		1.50	
L2535134-06	1	30	0.36729		1.50	

Figure : 1 (Ammonia)



Original Run Filename: OM_6-27-2025_06-57-50PM.OMN Created: 6/27/2025 6:57:50 PM

Original Run Author's Signature: [a1wetcheminstrument]

Current Run Filename: OM_6-27-2025_06-57-50PM.OMN Last Modified: 6/27/2025 7:37:25 PM

Current Run Author's Signature: [a1wetcheminstrument]

Description: Default New Run

(B)

Sample	Rep.	Cup No.	Channel 1 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.37643	94%		
		Known Conc:	0.40000			
		Calibration:	Table/Fig. : 1			
CCV 4.0000	1	S3	4.0260	101%		
		Known Conc:	4.0000			
CCB	1	S10	0.015301	/		
		Known Conc:	0.0000			
WG2083972-1; BLK 6/26	1	1	0.030998		1.50	98%
WG2083972-2; HI LCS; 5X	1	2	19.690		7.50	94%
LO LCS	1	3	1.8675		1.50	94%
L2534514-03; 10X	1	4	74.997		15.00	
L2535017-01	1	5	0.73266	/	1.50	
WG2083972-4; 35017.1 MS	1	6	5.3257		1.50	115%
WG2083972-3; 35017.1 DUP	1	7	0.76551	/	1.50	97%
L2535807-07	1	8	0.16748		1.50	
L2535807-10	1	9	0.16359		1.50	
L2535807-16	1	10	0.15714		1.50	
CCV 0.4000	1	S6	0.37294	93%		
		Known Conc:	0.40000			
CCV 4.0000	1	S3	3.9463	99%		
		Known Conc:	4.0000			
CCB	1	S10	0.023693	/		
		Known Conc:	0.0000			
L2535809-02	1	11	0.044040		1.50	
L2535809-05	1	12	0.22060		1.50	
L2535809-08	1	13	0.039720		1.50	
L2535809-14	1	14	0.047885		1.50	
L2535814-07	1	15	0.060756		1.50	
L2535814-10	1	16	0.056169		1.50	
L2535814-19	1	17	0.083096		1.50	
L2535814-25	1	18	0.081947		1.50	
L2535819-17	1	19	0.082324		1.50	
L2535819-26	1	20	0.030862	92%	1.50	
CCV 0.4000	1	S6	0.36932	92%		
		Known Conc:	0.40000			
CCV 4.0000	1	S3	3.9443	99%		
		Known Conc:	4.0000			
CCB	1	S10	0.019839	/		
		Known Conc:	0.0000			
L2535820-17	1	21	0.12763		1.50	
L2535822-01	1	22	0.080837		1.50	
L2535822-10	1	23	0.061824		1.50	
L2535822-13	1	24	0.026238		1.50	
L2535822-19	1	25	0.075997		1.50	
WG2083972-5; LOQ1	1	26	0.058698		1.50	
CCV 0.4000	1	S6	0.36630	92%		
		Known Conc:	0.40000			
CCV 4.0000	1	S3	3.9468	99%		
		Known Conc:	4.0000			
CCB	1	S10	0.018025	/		
		Known Conc:	0.0000			

Channel 1 (Ammonia Low) - Current View

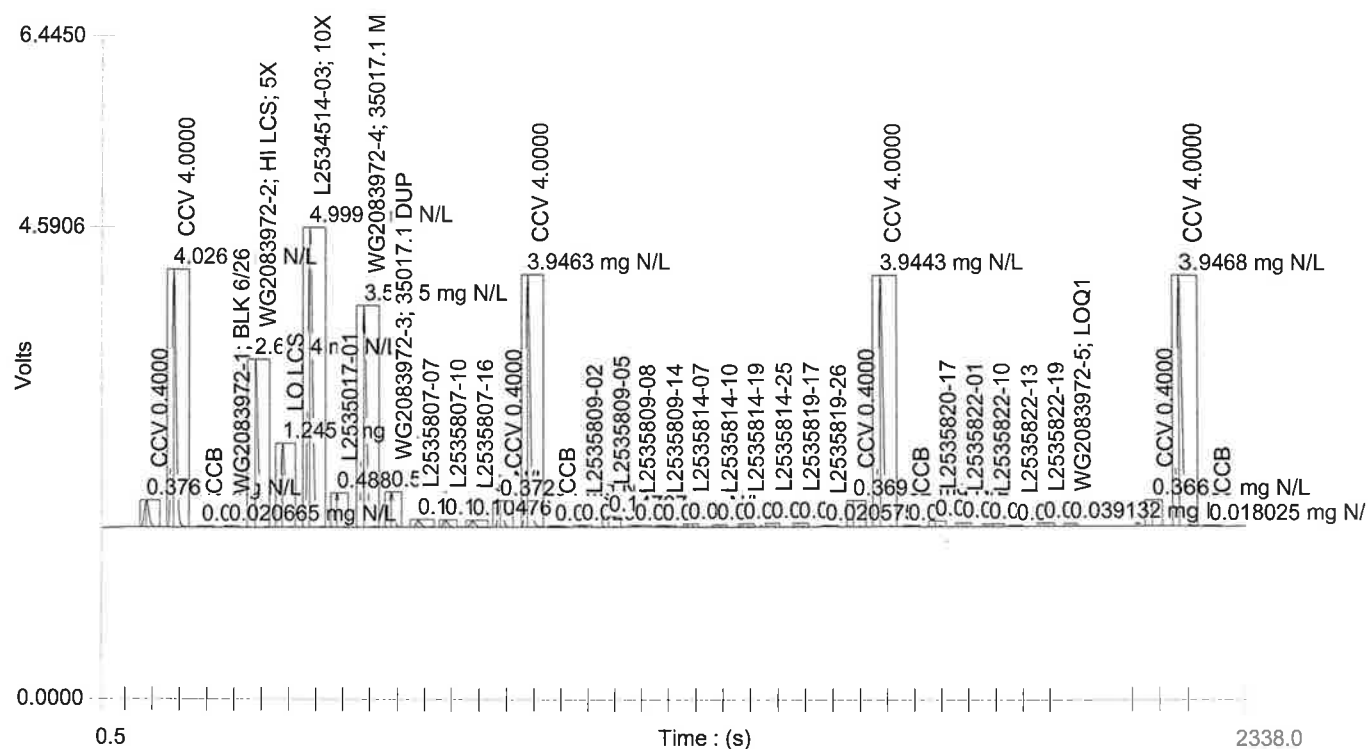
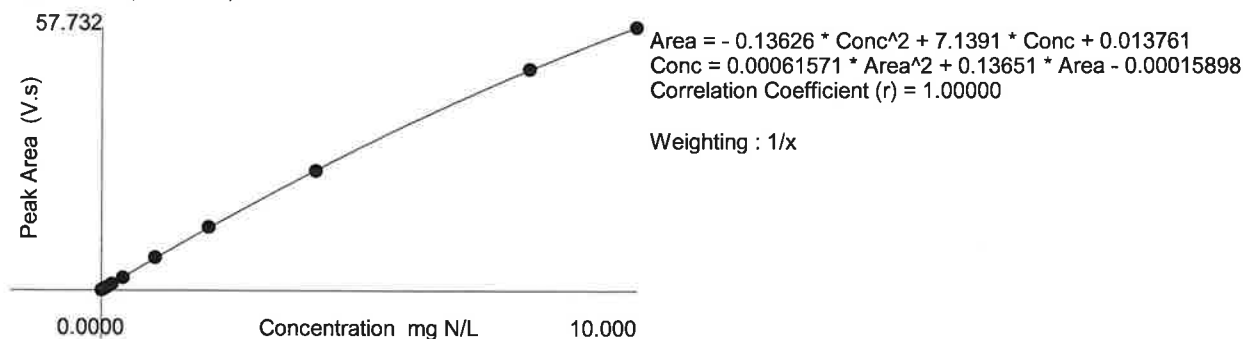


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.000	1	57.732	5.2016	0.0	0.1	9.9331	6/27/2025	6:02:53 PM
2	8.0000	1	48.496	4.4543	0.0	-0.2	8.0683	6/27/2025	6:03:48 PM
3	4.0000	1	26.244	2.5363	0.0	0.6	4.0067	6/27/2025	6:04:45 PM
4	2.0000	1	13.858	1.3555	0.0	-0.8	2.0099	6/27/2025	6:05:40 PM
5	1.0000	1	7.1776	0.69662	0.0	-2.3	1.0114	6/27/2025	6:06:37 PM
6	0.40000	1	2.7546	0.26503	0.0	3.3	0.38056	6/27/2025	6:07:33 PM
7	0.20000	1	1.4014	0.13304	0.0	2.4	0.19236	6/27/2025	6:08:31 PM
8	0.10000	1	0.68581	0.068241	0.0	5.6	0.093753	6/27/2025	6:09:28 PM
9	0.050000	1	0.36946	0.036112	0.0	0.2	0.050362	6/27/2025	6:10:24 PM
10	0.0000	1	0.045910	0.0046434			0.0061097	6/27/2025	6:11:19 PM

Figure : 1 (Ammonia)



Original Run Filename: OM_6-27-2025_08-36-29PM.OMN Created: 6/27/2025 8:36:29 PM

Original Run Author's Signature: [a1wetcheminstrument]

Current Run Filename: OM_6-27-2025_08-36-29PM.OMN Last Modified: 6/27/2025 9:11:11 PM

Current Run Author's Signature: [a1wetcheminstrument]

Description: Default New Run

C

Sample	Rep.	Cup No.	Channel 1	ADF	MDF	Weight
			Ammonia (mg N/L)			
CCV 0.4000	1	S6	0.37536	94%		
		Known Conc:	0.40000			
CCV 4.0000	1	S3	3.9156	98%		
		Known Conc:	4.0000			
		Calibration:	Table/Fig. : 1			
CCB	1	S10	0.016934	/		
		Known Conc:	0.0000			
WG2084114-1; BLK 6/27	1	1	0.012263		1.50	94%
WG2084114-2; HI LCS; 5X	1	2	18.820		7.50	
LO LCS	1	3	1.9113		1.50	96%
L2534787-01	1	4	9.4690		1.50	
L2534787-02	1	5	0.19792		1.50	
L2534788-01	1	6	9.8401		1.50	
L2534779-06	1	7	0.20469		1.50	
L2534779-07	1	8	0.055893		1.50	
L2534779-08	1	9	0.052452		1.50	
L2534779-09	1	10	0.049902		1.50	
CCV 0.4000	1	S6	0.37735	94%		
		Known Conc:	0.40000			
CCV 4.0000	1	S3	3.9381	99%		
		Known Conc:	4.0000			
CCB	1	S10	0.018085	/		
		Known Conc:	0.0000			
FILTER BLK	1	11	0.014910		1.50	
L2534779-10	1	12	0.060401		1.50	
L2534841-02	1	13	0.064550	/	1.50	
WG2084114-4; 34841.2 MS	1	14	4.0194		1.50	101%
WG2084114-3; 348114.2 DUP	1	15	0.10915	/	1.50	mc(=PL)
L2534841-04	1	16	0.058687		1.50	
L2534841-06	1	17	0.046247		1.50	
L2534841-08	1	18	0.021458		1.50	
L2534841-10	1	19	0.038839		1.50	
L2534841-12	1	20	0.042710		1.50	
CCV 0.4000	1	S6	0.37431	94%		
		Known Conc:	0.40000			
CCV 4.0000	1	S3	3.9168	98%		
		Known Conc:	4.0000			
CCB	1	S10	0.018774	/		
		Known Conc:	0.0000			

Chromatogram showing detector response (Volts) versus time (s). The plot displays numerous peaks, many of which are labeled with sample names and concentrations. The y-axis ranges from 0.0000 to 6.5440 Volts, and the x-axis ranges from 0.5 to 1837.0 seconds. Key peaks are labeled with values such as 0.3753, 3.9156, 6.3127, 6.5600, 3.9381, 2.6, 3.9168, and 0.3743.

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.000	1	57.732	5.2016	0.0	0.1	9.9331	6/27/2025	6:02:53 PM
2	8.0000	1	48.496	4.4543	0.0	-0.2	8.0683	6/27/2025	6:03:48 PM
3	4.0000	1	26.244	2.5363	0.0	0.6	4.0067	6/27/2025	6:04:45 PM
4	2.0000	1	13.858	1.3555	0.0	-0.8	2.0099	6/27/2025	6:05:40 PM
5	1.0000	1	7.1776	0.69662	0.0	-2.3	1.0114	6/27/2025	6:06:37 PM
6	0.40000	1	2.7546	0.26503	0.0	3.3	0.38056	6/27/2025	6:07:33 PM
7	0.20000	1	1.4014	0.13304	0.0	2.4	0.19236	6/27/2025	6:08:31 PM
8	0.10000	1	0.68581	0.068241	0.0	5.6	0.093753	6/27/2025	6:09:28 PM
9	0.050000	1	0.36946	0.036112	0.0	0.2	0.050362	6/27/2025	6:10:24 PM
10	0.0000	1	0.045910	0.0046434			0.0061097	6/27/2025	6:11:19 PM

Area = $-0.13626 \cdot \text{Conc}^2 + 7.1391 \cdot \text{Conc} + 0.013761$
Conc = $0.00061571 \cdot \text{Area}^2 + 0.13651 \cdot \text{Area} - 0.00015898$
Correlation Coefficient (r) = 1.00000
Weighting : 1/x

Original Run Filename: OM_6-27-2025_09-27-26PM.OMN Created: 6/27/2025 9:27:26 PM

Original Run Author's Signature: [a1wetcheminstrument]

Current Run Filename: OM_6-27-2025_09-27-26PM.OMN Last Modified: 6/27/2025 10:05:37 PM

Current Run Author's Signature: [a1wetcheminstrument]

Description: Default New Run

Sample	Rep.	Cup No.	Channel 1 Ammonia (mg N/L)	ADF	MDF	Weight
CCV 0.4000	1	S6	0.39766	100%		
		Known Conc:	0.40000			
CCV 4.0000	1	S3	3.9373	99%		
		Known Conc:	4.0000			
		Calibration:	Table/Fig. : 1			
CCB	1	S10	0.035692	/		
		Known Conc:	0.0000			
WG2084113-1; BLK 6/27	1	1	0.044220		1.50	94%
WG2084113-2; HI LCS; 5X	1	2	18.733		7.50	94%
LO LCS	1	3	1.9409		1.50	94%
L2534732-01; 50X	1	4	786.03		375.00	
L2534732-02; 50X	1	5	496.06		375.00	
L2534732-03; 10X	1	6	31.598		15.00	
L2534338-01; 10X	1	7	31.157		15.00	
L2534338-02	1	8	6.4567		1.50	
L2534779-01	1	9	0.26177		1.50	
L2534779-02	1	10	0.20386		1.50	
CCV 0.4000	1	S6	0.38848	97%		
		Known Conc:	0.40000			
CCV 4.0000	1	S3	3.9397	99%		
		Known Conc:	4.0000			
CCB	1	S10	0.030864	/		
		Known Conc:	0.0000			
L2534704-01	1	11	1.9088		1.50	
L2534720-01	1	12	19.909		1.50	
L2534720-02	1	13	3.3631		1.50	
L2534771-01	1	14	20.954		1.50	
L2534771-02	1	15	22.114		1.50	
L2534779-03	1	16	0.36069		1.50	
WG2084113-4; 34779.3 MS	1	17	4.3704		1.50	107%
WG2084113-3; 34779.3 DUP	1	18	0.12094	/	1.50	28% (K5K4)
L2534779-04	1	19	0.24643		1.50	
L2534779-05	1	20	0.21105		1.50	
CCV 0.4000	1	S6	0.38597	97%		
		Known Conc:	0.40000			
CCV 4.0000	1	S3	3.9250	98%		
		Known Conc:	4.0000			
CCB	1	S10	0.028362	/		
		Known Conc:	0.0000			
L2534720-01; 10X	1	21	19.041		15.00	
L2534720-02	1	22	3.1201		1.50	
L2534771-01; 10X	1	23	20.756		15.00	
L2534771-02; 10X	1	24	22.610		15.00	
L2534779-03	1	25	0.092997	/	1.50	
CCV 0.4000	1	S6	0.38227	96%		
		Known Conc:	0.40000			
CCV 4.0000	1	S3	3.9169	98%		
		Known Conc:	4.0000			
CCB	1	S10	0.030548	/		
		Known Conc:	0.0000	/		



ndilubia .
107%
28% (K5K4)

Channel 1 (Ammonia Low) - Current View

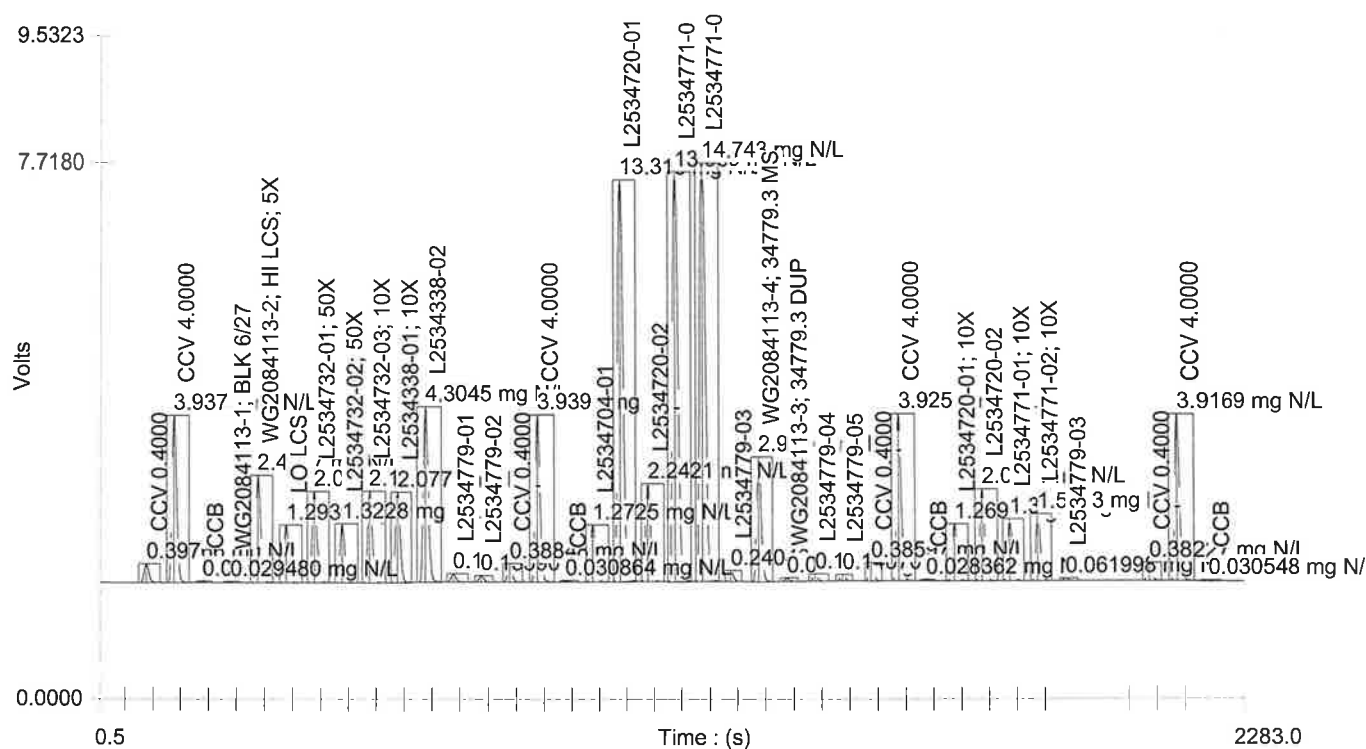
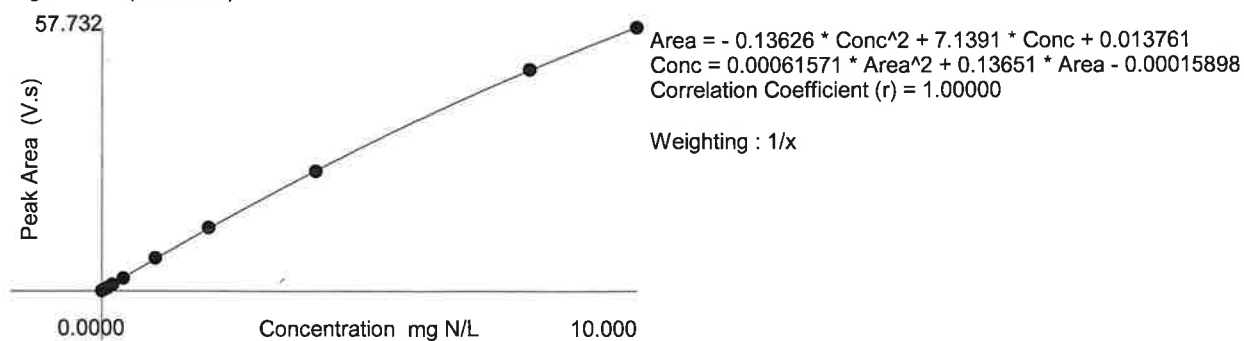


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.0000	1	57.732	5.2016	0.0	0.1	9.9331	6/27/2025	6:02:53 PM
2	8.0000	1	48.496	4.4543	0.0	-0.2	8.0683	6/27/2025	6:03:48 PM
3	4.0000	1	26.244	2.5363	0.0	0.6	4.0067	6/27/2025	6:04:45 PM
4	2.0000	1	13.858	1.3555	0.0	-0.8	2.0099	6/27/2025	6:05:40 PM
5	1.0000	1	7.1776	0.69662	0.0	-2.3	1.0114	6/27/2025	6:06:37 PM
6	0.40000	1	2.7546	0.26503	0.0	3.3	0.38056	6/27/2025	6:07:33 PM
7	0.20000	1	1.4014	0.13304	0.0	2.4	0.19236	6/27/2025	6:08:31 PM
8	0.10000	1	0.68581	0.068241	0.0	5.6	0.093753	6/27/2025	6:09:28 PM
9	0.050000	1	0.36946	0.036112	0.0	0.2	0.050362	6/27/2025	6:10:24 PM
10	0.0000	1	0.045910	0.0046434			0.0061097	6/27/2025	6:11:19 PM

Figure : 1 (Ammonia)



Original Run Filename: OM_6-27-2025_10-09-01PM.OMN Created: 6/27/2025 10:09:01 PM

Original Run Author's Signature: [a1wetcheminstrument]

Current Run Filename: OM_6-27-2025_10-09-01PM.OMN Last Modified: 6/27/2025 10:39:47 PM

Current Run Author's Signature: [a1wetcheminstrument]

Description: Default New Run

E

Sample	Rep.	Cup No.	Channel 1	ADF	MDF	Weight
			Ammonia (mg N/L)			
CCV 0.4000	1	S6	0.37882	95%		
		Known Conc:	0.40000			
		Calibration:	Table/Fig. : 1			
CCV 4.0000	1	S3	3.8904	97%		
		Known Conc:	4.0000			
CCB	1	S10	0.022966	/		
		Known Conc:	0.0000			
WG2083974-1 T; BLK 6/26	1	1	0.083520			
WG2083974-2 T; HI LCS; 5X	1	2	38.246		15.00	96%
LO LCS T	1	3	3.7760		3.00	95%
L2534995-01 T	1	4	0.42576	/	3.00	
WG2083974-4 T; 34995.1 MS	1	5	8.5837		3.00	102%
WG2083974-3 T; 34995.1 DUP	1	6	0.46561	/	3.00	97%
L2535000-01 T	1	7	25.407		3.00	
L2535005-01 T	1	8	3.6923		6.00	
L2535007-01 T	1	9	19.432		15.00	
L2535010-01 T	1	10	22.768		150.00	
CCV 0.4000	1	S6	0.38808	97%		
		Known Conc:	0.40000			
CCV 4.0000	1	S3	3.8650	97%		
		Known Conc:	4.0000			
CCB	1	S10	0.028383	/		
		Known Conc:	0.0000			
L2538382-07 T	1	11	0.15082		3.00	
L2538805-01 T	1	12	0.14213		3.00	
L2538805-02 T	1	13	0.20035		3.00	
L2538805-03 T	1	14	0.16412		3.00	
L2538805-04 T	1	15	0.15062		3.00	
L2538805-05 T	1	16	0.37367		3.00	
L2538805-06 T	1	17	0.22902		3.00	
L2535003-01 T	1	18	2.6243		15.00	
L2535002-01 T	1	19	24.734		30.00	
L2535008-01 T	1	20	3.8475	93%	30.00	
CCV 0.4000	1	S6	0.37055	97%		
		Known Conc:	0.40000			
CCV 4.0000	1	S3	3.8641	97%		
		Known Conc:	4.0000			
CCB	1	S10	0.039963	/		
		Known Conc:	0.0000			

Channel 1 (Ammonia Low) - Current View

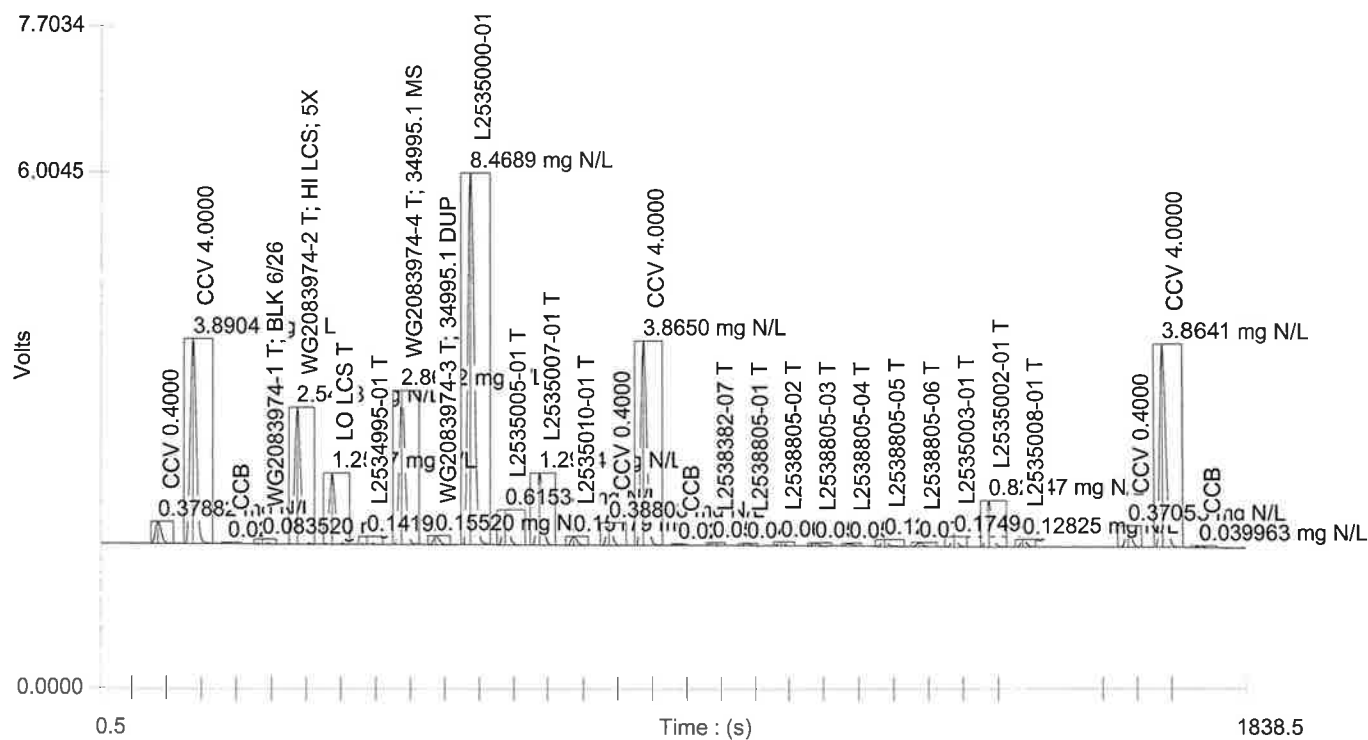
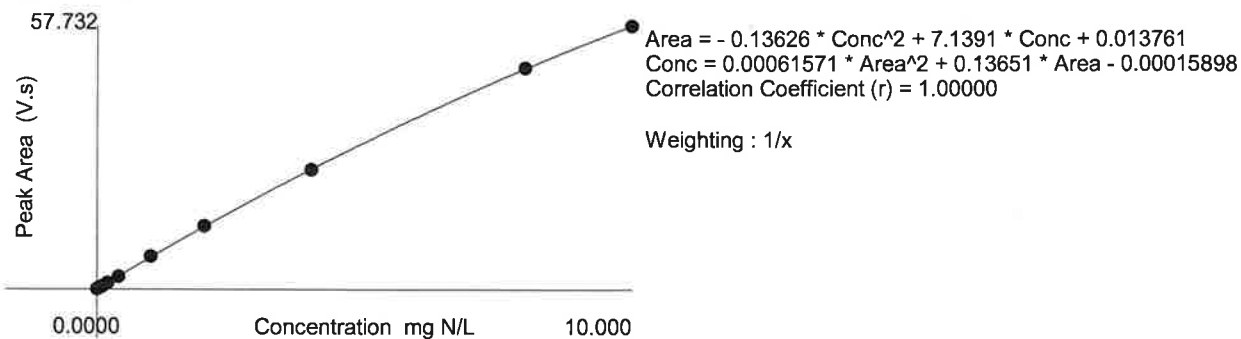


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.0000	1	57.732	5.2016	0.0	0.1	9.9331	6/27/2025	6:02:53 PM
2	8.0000	1	48.496	4.4543	0.0	-0.2	8.0683	6/27/2025	6:03:48 PM
3	4.0000	1	26.244	2.5363	0.0	0.6	4.0067	6/27/2025	6:04:45 PM
4	2.0000	1	13.858	1.3555	0.0	-0.8	2.0099	6/27/2025	6:05:40 PM
5	1.0000	1	7.1776	0.69662	0.0	-2.3	1.0114	6/27/2025	6:06:37 PM
6	0.40000	1	2.7546	0.26503	0.0	3.3	0.38056	6/27/2025	6:07:33 PM
7	0.20000	1	1.4014	0.13304	0.0	2.4	0.19236	6/27/2025	6:08:31 PM
8	0.10000	1	0.68581	0.068241	0.0	5.6	0.093753	6/27/2025	6:09:28 PM
9	0.050000	1	0.36946	0.036112	0.0	0.2	0.050362	6/27/2025	6:10:24 PM
10	0.0000	1	0.045910	0.0046434			0.0061097	6/27/2025	6:11:19 PM

Figure : 1 (Ammonia)



Original Run Filename: OM_6-27-2025_11-00-03PM.OMN Created: 6/27/2025 11:00:03 PM

Original Run Author's Signature: [a1wetcheminstrument]

Current Run Filename: OM_6-27-2025_11-00-03PM.OMN Last Modified: 6/27/2025 11:30:48 PM

Current Run Author's Signature: [a1wetcheminstrument]

Description: Default New Run

(F)

Sample	Rep.	Cup No.	Channel 1	ADF	MDF	Weight
			Ammonia (mg N/L)			
CCV 0.4000	1	S6	0.40197	101%		
		Known Conc:	0.40000			
CCV 4.0000	1	S3	3.8643	97%		
		Known Conc:	4.0000			
		Calibration:	Table/Fig. : 1			
CCB	1	S10	0.014821	✓		
		Known Conc:	0.0000			
WG2083978-1 T; BLK 6/25	1	1	0.032049			
WG2083978-2 T; HI LCS; 5X	1	2	36.968		15.00	97%
LO LCS T	1	3	3.8591		3.00	97%
L2534732-01 T; 50X	1	4	767.07		1500.00	
L2534732-02 T; 50X	1	5	510.39		750.00	
L2534732-03 T; 10X	1	6	33.330		30.00	
L2534726-01 T	1	7	3.2622		3.00	
L2534755-01 T	1	8	14.650		3.00	
L2534766-01 T	1	9	24.834		15.00	
L2534766-02 T	1	10	6.8080		15.00	
CCV 0.4000	1	S6	0.38228	96%		
		Known Conc:	0.40000			
CCV 4.0000	1	S3	3.8177	96%		
		Known Conc:	4.0000			
CCB	1	S10	0.034421	✓		
		Known Conc:	0.0000			
L2534768-01 T	1	11	8.7065		3.00	
L2534768-02 T	1	12	5.4920		3.00	
L2534771-01 T; 10X	1	13	28.513		30.00	
L2534771-02 T; 10X	1	14	24.849		30.00	
L2534774-01 T	1	15	0.51832		3.00	
L2534774-02 T	1	16	0.37603		3.00	
L2535028-01 T	1	17	0.74318	✓	3.00	
WG2083978-4 T; 35028.1 MS	1	18	10.020	✓	3.00	116%
WG2083978-3 T; 35028.1 DUP	1	19	0.94435	✓	3.00	24% (25+26)
WG2083978-5 T; LOQ1	1	20	0.30054	✓	3.00	
CCV 0.4000	1	S6	0.39256	98%		
		Known Conc:	0.40000			
CCV 4.0000	1	S3	3.8042	95%		
		Known Conc:	4.0000			
CCB	1	S10	0.018705	✓		
		Known Conc:	0.0000			

Channel 1 (Ammonia Low) - Current View

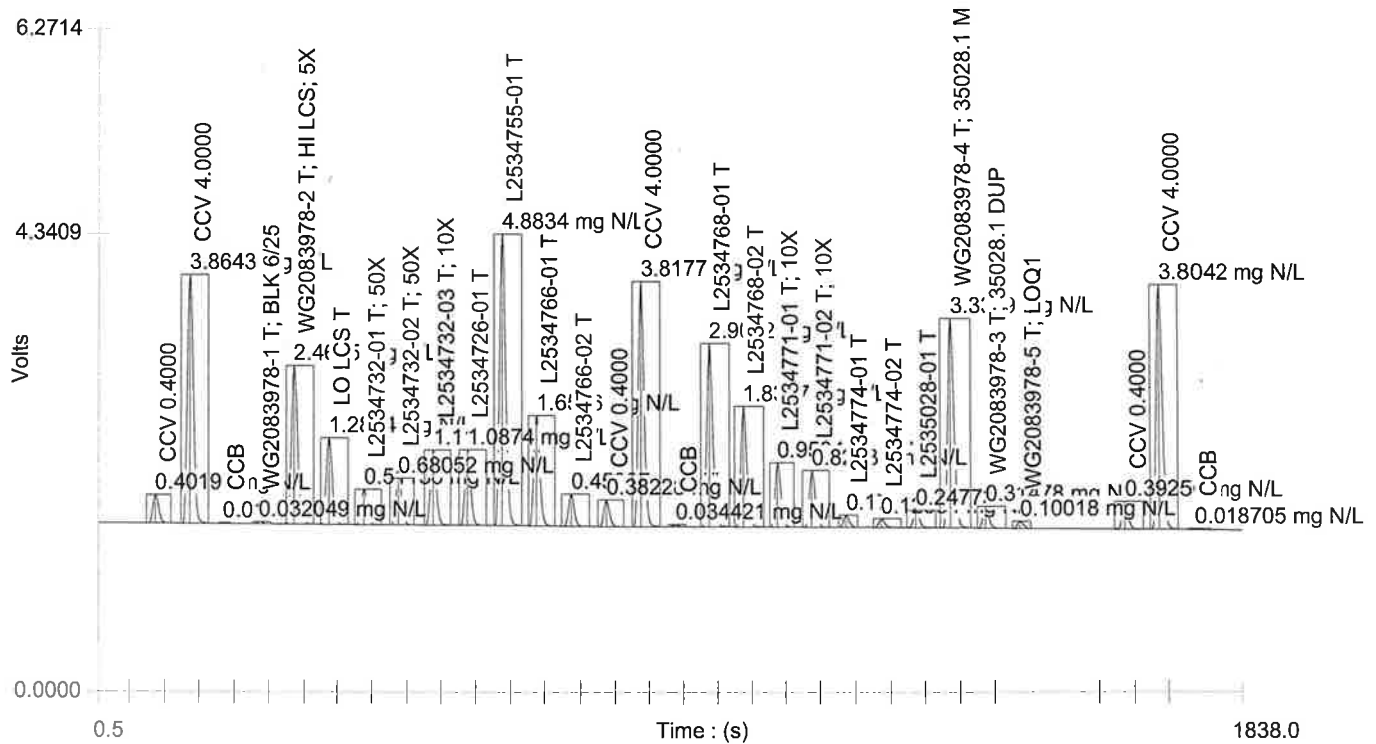
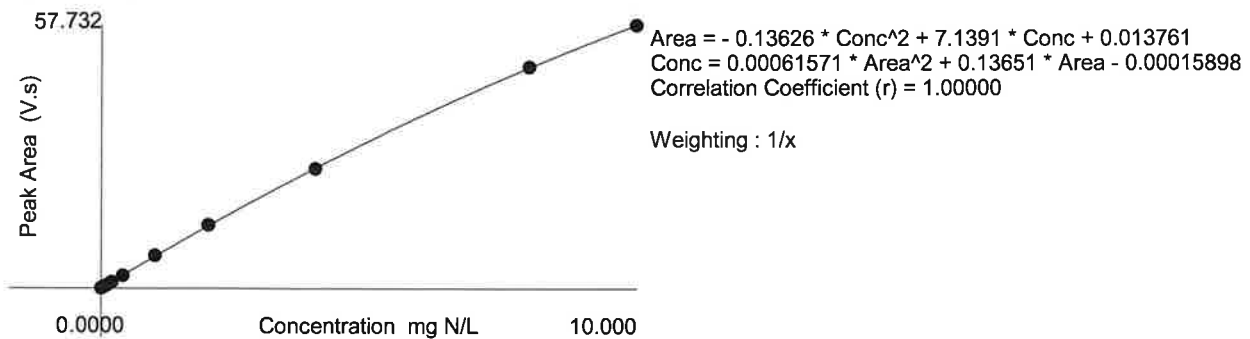


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.0000	1	57.732	5.2016	0.0	0.1	9.9331	6/27/2025	6:02:53 PM
2	8.0000	1	48.496	4.4543	0.0	-0.2	8.0683	6/27/2025	6:03:48 PM
3	4.0000	1	26.244	2.5363	0.0	0.6	4.0067	6/27/2025	6:04:45 PM
4	2.0000	1	13.858	1.3555	0.0	-0.8	2.0099	6/27/2025	6:05:40 PM
5	1.0000	1	7.1776	0.69662	0.0	-2.3	1.0114	6/27/2025	6:06:37 PM
6	0.40000	1	2.7546	0.26503	0.0	3.3	0.38056	6/27/2025	6:07:33 PM
7	0.20000	1	1.4014	0.13304	0.0	2.4	0.19236	6/27/2025	6:08:31 PM
8	0.10000	1	0.68581	0.068241	0.0	5.6	0.093753	6/27/2025	6:09:28 PM
9	0.050000	1	0.36946	0.036112	0.0	0.2	0.050362	6/27/2025	6:10:24 PM
10	0.0000	1	0.045910	0.0046434			0.0061097	6/27/2025	6:11:19 PM

Figure : 1 (Ammonia)



Original Run Filename: OM_6-27-2025_11-32-37PM.OMN Created: 6/27/2025 11:32:37 PM

Original Run Author's Signature: [a1wetcheminstrument]

Current Run Filename: OM_6-27-2025_11-32-37PM.OMN Last Modified: 6/28/2025 12:10:47 AM

Current Run Author's Signature: [a1wetcheminstrument]

Description: Default New Run

Sample	Rep.	Cup No.	Channel 1	ADF	MDF	Weight
			Ammonia (mg N/L)			
CCV 0.4000	1	S6	0.37890	95%		
		Known Conc:	0.40000			
		Calibration:	Table/Fig. : 1	95%		
CCV 4.0000	1	S3	3.7925			
		Known Conc:	4.0000			
CCB	1	S10	0.014627			
		Known Conc:	0.0000			
WG2084454-1; BLK 6/27	1	1	0.016942		1.50	74%
WG2084454-2; HI LCS; 5X	1	2	18.856		7.50	74%
LO LCS	1	3	1.8713		1.50	74%
L2534856-03	1	4	0.068539		1.50	101%
WG2084454-4; 34856.3 MS	1	5	4.3746		1.50	101% (25.44)
WG2084454-3; 34856.3 DUP	1	6	0.080376		1.50	
L2534661-01	1	7	1.2812		1.50	
L2534661-02	1	8	0.71991		1.50	
L2535216-03	1	9	0.10740		1.50	
L2535216-03	1	10	0.027212		1.50	
CCV 0.4000	1	S6	0.38495	96%		
		Known Conc:	0.40000			
CCV 4.0000	1	S3	3.7531	94%		
		Known Conc:	4.0000			
CCB	1	S10	0.015796			
		Known Conc:	0.0000			
L2535216-05	1	11	0.76924		15.00	
L2535216-06	1	12	0.029714		1.50	
L2535216-07	1	13	0.057687		1.50	
L2535216-08	1	14	0.054640		1.50	
L2535216-09	1	15	0.055604		1.50	
L2535216-10	1	16	0.054249		1.50	
L2535216-11	1	17	0.11156		1.50	
L2536054-01	1	18	2.7304		1.50	
L2536287-01	1	19	0.65642		1.50	
L2536287-02	1	20	0.76181		1.50	
CCV 0.4000	1	S6	0.38504	96%		
		Known Conc:	0.40000			
CCV 4.0000	1	S3	3.7194	93%		
		Known Conc:	4.0000			
CCB	1	S10	0.022649			
		Known Conc:	0.0000			
L2536287-04	1	21	0.077053		1.50	
L2536287-05	1	22	0.050983		1.50	
L2535717-01	1	23	0.46317		1.50	
L2535717-02	1	24	0.53063		1.50	
L2535717-03	1	25	0.029544		1.50	
CCV 0.4000	1	S6	0.37886	95%		
		Known Conc:	0.40000			
CCV 4.0000	1	S3	3.7098	93%		
		Known Conc:	4.0000			
CCB	1	S10	0.018062			
		Known Conc:	0.0000			

G

Channel 1 (Ammonia Low) - Current View

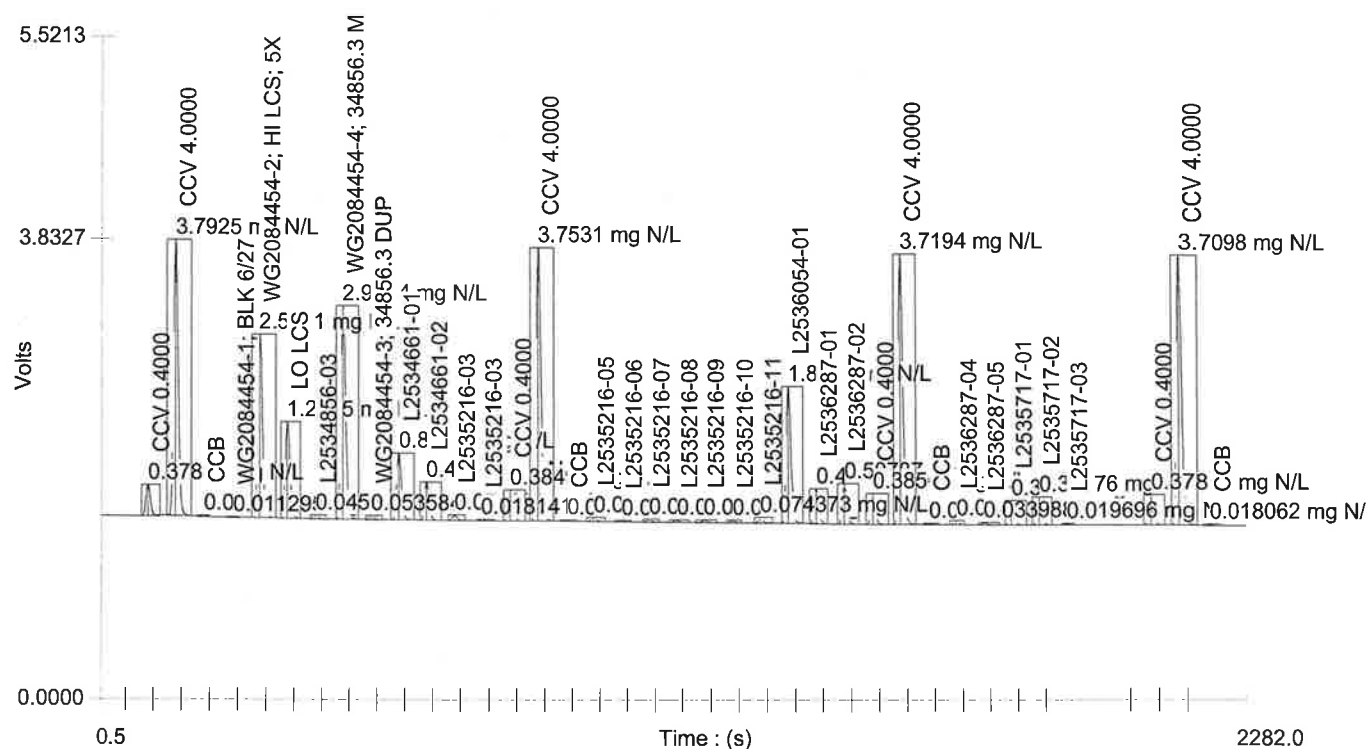
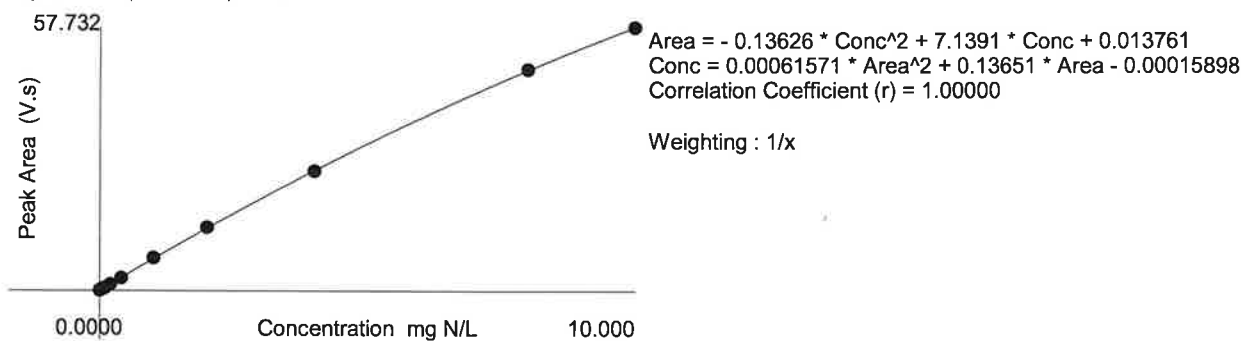


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.000	1	57.732	5.2016	0.0	0.1	9.9331	6/27/2025	6:02:53 PM
2	8.0000	1	48.496	4.4543	0.0	-0.2	8.0683	6/27/2025	6:03:48 PM
3	4.0000	1	26.244	2.5363	0.0	0.6	4.0067	6/27/2025	6:04:45 PM
4	2.0000	1	13.858	1.3555	0.0	-0.8	2.0099	6/27/2025	6:05:40 PM
5	1.0000	1	7.1776	0.69662	0.0	-2.3	1.0114	6/27/2025	6:06:37 PM
6	0.40000	1	2.7546	0.26503	0.0	3.3	0.38056	6/27/2025	6:07:33 PM
7	0.20000	1	1.4014	0.13304	0.0	2.4	0.19236	6/27/2025	6:08:31 PM
8	0.10000	1	0.68581	0.068241	0.0	5.6	0.093753	6/27/2025	6:09:28 PM
9	0.050000	1	0.36946	0.036112	0.0	0.2	0.050362	6/27/2025	6:10:24 PM
10	0.0000	1	0.045910	0.0046434			0.0061097	6/27/2025	6:11:19 PM

Figure : 1 (Ammonia)



Original Run Filename: OM_6-28-2025_12-11-51AM.OMN Created: 6/28/2025 12:11:51 AM

Original Run Author's Signature: [a1wetcheminstrument]

Current Run Filename: OM_6-28-2025_12-11-51AM.OMN Last Modified: 6/28/2025 12:50:02 AM

Current Run Author's Signature: [a1wetcheminstrument]

Description: Default New Run

Sample	Rep.	Cup No.	Channel 1	ADF	MDF	Weight
			Ammonia (mg N/L)			
CCV 0.4000	1	S6	0.37804	95%		
		Known Conc:	0.40000			
CCV 4.0000	1	S3	3.7062	93%		
		Known Conc:	4.0000			
		Calibration:	Table/Fig. : 1			
CCB	1	S10	0.018505	✓		
		Known Conc:	0.0000			
WG2084459-1; BLK 6/27	1	1	0.014695		1.50	97%
WG2084459-2; HI LCS; 5X	1	2	19.442		7.50	
LO LCS	1	3	1.8237		1.50	91%
L2534629-01	1	4	0.44410	✓	1.50	103%
WG2084459-4; 34629.1 MS	1	5	4.5584		1.50	72%
WG2084459-3; 34629.1 DUP	1	6	0.61124	✓	1.50	
L2534726-01	1	7	1.7503		1.50	
L2534788-02	1	8	0.90519		1.50	
L2534796-01	1	9	0.070135		1.50	
L2535809-11	1	10	0.045861		1.50	
CCV 0.4000	1	S6	0.37580	94%		
		Known Conc:	0.40000			
CCV 4.0000	1	S3	3.6720	92%		
		Known Conc:	4.0000			
CCB	1	S10	0.020607	✓		
		Known Conc:	0.0000			
L2535809-17	1	11	0.096931		1.50	
L2536553-01	1	12	0.38222		3.00	
L2536553-02	1	13	0.073707		1.50	
L2535389-01	1	14	0.35900		1.50	
L2535389-02	1	15	0.65985		1.50	
L2535389-03	1	16	0.45293		1.50	
L2535389-04	1	17	0.64034		1.50	
L2535809-20	1	18	0.13246		1.50	
L2535809-23	1	19	0.057610		1.50	
L2535822-04	1	20	0.058452		1.50	
CCV 0.4000	1	S6	0.37530	94%		
		Known Conc:	0.40000			
CCV 4.0000	1	S3	3.7258	93%		
		Known Conc:	4.0000			
CCB	1	S10	0.020016	✓		
		Known Conc:	0.0000			
L2535822-07	1	21	0.067416		1.50	
L2535822-16	1	22	0.099796		1.50	
L2535830-01	1	23	0.74765		1.50	
L2535830-02	1	24	8.2065		1.50	
L2535822-22	1	25	0.23198	95%	1.50	
CCV 0.4000	1	S6	0.38092	95%		
		Known Conc:	0.40000			
CCV 4.0000	1	S3	3.7265	93%		
		Known Conc:	4.0000			
CCB	1	S10	0.023130	✓		
		Known Conc:	0.0000			

(H)

Channel 1 (Ammonia Low) - Current View

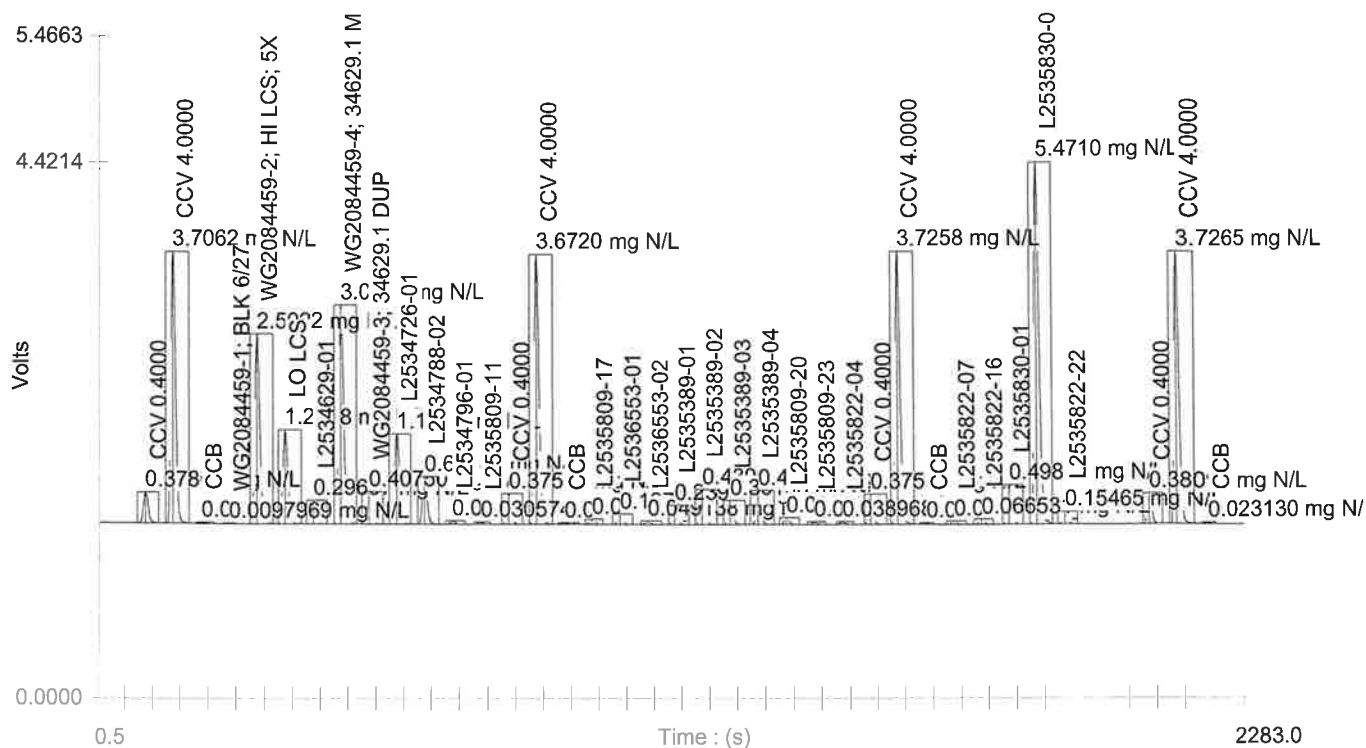
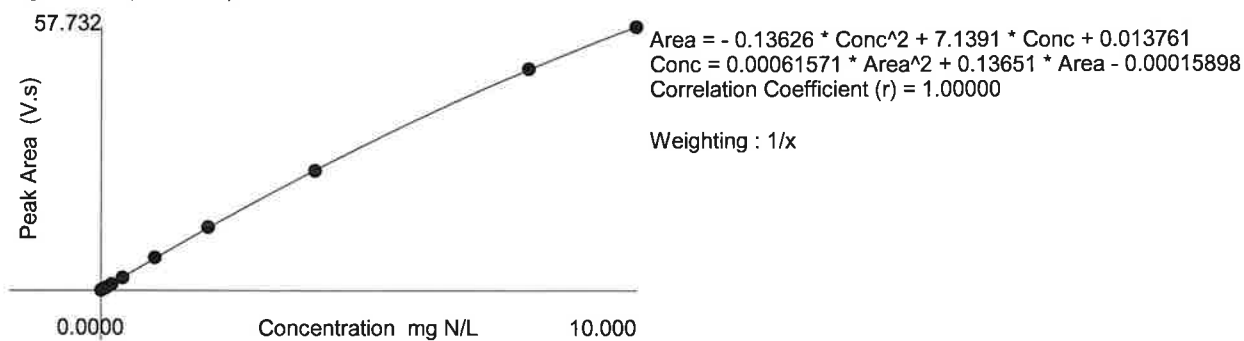


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.000	1	57.732	5.2016	0.0	0.1	9.9331	6/27/2025	6:02:53 PM
2	8.0000	1	48.496	4.4543	0.0	-0.2	8.0683	6/27/2025	6:03:48 PM
3	4.0000	1	26.244	2.5363	0.0	0.6	4.0067	6/27/2025	6:04:45 PM
4	2.0000	1	13.858	1.3555	0.0	-0.8	2.0099	6/27/2025	6:05:40 PM
5	1.0000	1	7.1776	0.69662	0.0	-2.3	1.0114	6/27/2025	6:06:37 PM
6	0.40000	1	2.7546	0.26503	0.0	3.3	0.38056	6/27/2025	6:07:33 PM
7	0.20000	1	1.4014	0.13304	0.0	2.4	0.19236	6/27/2025	6:08:31 PM
8	0.10000	1	0.68581	0.068241	0.0	5.6	0.093753	6/27/2025	6:09:28 PM
9	0.050000	1	0.36946	0.036112	0.0	0.2	0.050362	6/27/2025	6:10:24 PM
10	0.0000	1	0.045910	0.0046434			0.0061097	6/27/2025	6:11:19 PM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT

Date : 6/26/2025

Original Run Filename: OM_6-26-2025_11-27-39AM.OMN Created: 6/26/2025 11:27:39 AM

Original Run Author's Signature: [A1WETCHEMINSTRUMENT]

Current Run Filename: OM_6-26-2025_11-27-39AM.OMN Last Modified: 6/26/2025 11:53:33 AM

Current Run Author's Signature: [A1WETCHEMINSTRUMENT]

Description: Default New Run

		Channel 2				TRAY A
Sample	Rep.	Cup No.	Ammonia (mg N/L)	MDF	Weight	
STD 1	1	S1	10.00000			
STD 2	1	S2	8.00000			
STD 3	1	S3	4.00000			
STD 4	1	S4	2.00000			
STD 5	1	S5	1.00000			
STD 6	1	S6	0.40000			
STD 7	1	S7	0.20000			
STD 8	1	S8	0.10000			
STD 9	1	S9	0.05000			
STD 10	1	S10	0.00000			
CCV 0.4000	1	S6	0.36512			91%
		Known Conc:	100.00000			
		Calibration:	Table/Fig. : 1			
CCV 4.0000	1	S3	4.00011			100%
		Known Conc:	100.00000			
CCB	1	S10	0.01135			
		Known Conc:	100.00000			
HI ICV 8.0	1	1	7.99559			100%
LO ICV 1.0	1	2	0.94108			94%
ICB	1	3	0.00235			
WG2083429-1	1	4	1.30897e-6	1.50		
WG2083429-2	1	5	19.73515	7.50		99%
LCS LO	1	6	1.88236	1.50		94%
L2533323-10; 10X	1	7	1469.29407	300.00		
L2533323-12; 10X	1	8	2295.93018	300.00		
L2533323-13; 10X	1	9	1503.80725	300.00		
L2533323-14; 10X	1	10	1479.82080	300.00		
X CCV 0.4000	1	S6	0.48642			122%, RERUN OK
		Known Conc:	100.00000			

Channel 2 (Ammonia High) - Current View

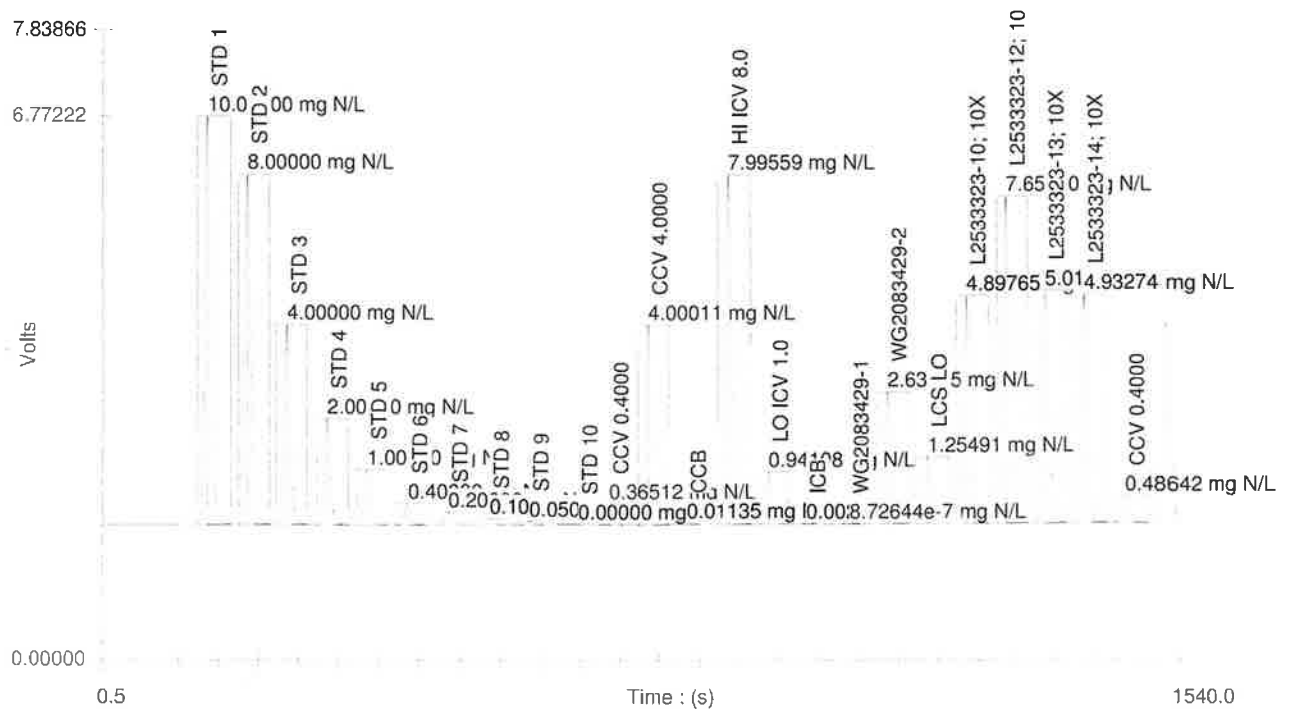
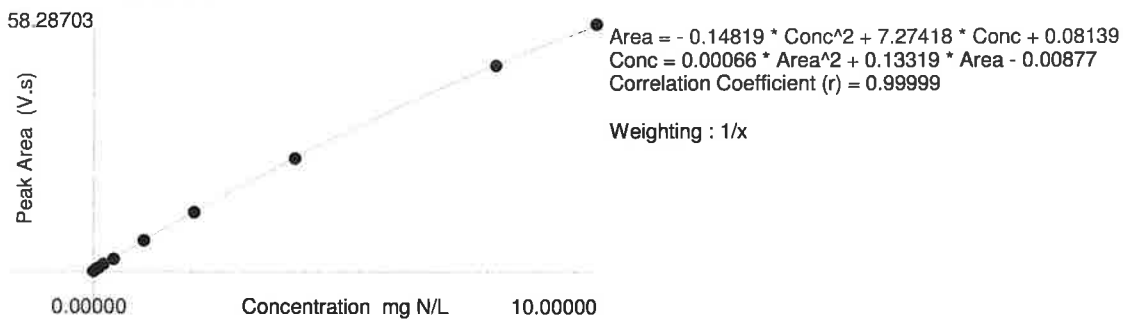


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	58.28703	5.07393	0.0	-0.5	9.99554	6/26/2025	11:29:40 AM
2	8.00000	1	48.54877	4.35616	0.0	0.5	8.01224	6/26/2025	11:30:36 AM
3	4.00000	1	26.61365	2.49254	0.0	0.7	4.00316	6/26/2025	11:31:34 AM
4	2.00000	1	13.91085	1.32241	0.0	0.9	1.97170	6/26/2025	11:32:31 AM
5	1.00000	1	7.33020	0.69122	0.0	-1.7	1.00300	6/26/2025	11:33:29 AM
6	0.40000	1	2.89553	0.26844	0.0	2.4	0.38242	6/26/2025	11:34:27 AM
7	0.20000	1	1.67483	0.15669	0.0	-9.4	0.21615	6/26/2025	11:35:25 AM
8	0.10000	1	0.86308	0.07918	0.0	-6.9	0.10667	6/26/2025	11:36:23 AM
9	0.05000	1	0.47176	0.04216	0.0	-6.1	0.05421	6/26/2025	11:37:20 AM
10	0.00000	1	-0.00114	0.00190			-0.00892	6/26/2025	11:38:17 AM

Figure : 1 (Ammonia)



Author: A1WETCHEMINSTRUMENT

Date : 6/26/2025

Original Run Filename: OM_6-26-2025_11-58-40AM.OMN Created: 6/26/2025 11:58:40 AM

Original Run Author's Signature: [A1WETCHEMINSTRUMENT]

Current Run Filename: OM_6-26-2025_11-58-40AM.OMN Last Modified: 6/26/2025 12:15:10 PM

Current Run Author's Signature: [A1WETCHEMINSTRUMENT]

Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	MDF	Weight	TRAY A
CCV 0.4000	1	S6	0.37643			94%
		Known Conc:	100.00000			
		Calibration:	Table/Fig. : 1			
CCV 4.0000	1	S3	3.97243			99%
		Known Conc:	100.00000			
CCB	1	S10	0.01063			
		Known Conc:	100.00000			
L2534125-01	1	12	0.10837	1.50		
L2533323-15; 10X	1	11	1137.33008	300.00		
L2534129-01	1	13	0.19916	1.50		
L2534129-02	1	14	0.07254	1.50		
L2534282-01	1	15	1.20759	1.50		
L2534321-02	1	16	13.09801	7.50		
L2534321-03	1	17	0.10820	1.50		
WG2083429-4	1	18	4.29441	1.50		105%
WG2083429-3	1	19	0.11558	1.50		RPD=7%
X L2534426-01	1	20	28.54787	1.50		
X CCV 0.4000	1	S6	0.59773			149%, RERUN OK
		Known Conc:	100.00000			
CCV 4.0000	1	S3	3.98543			
		Known Conc:	100.00000			

Channel 2 (Ammonia High) - Current View

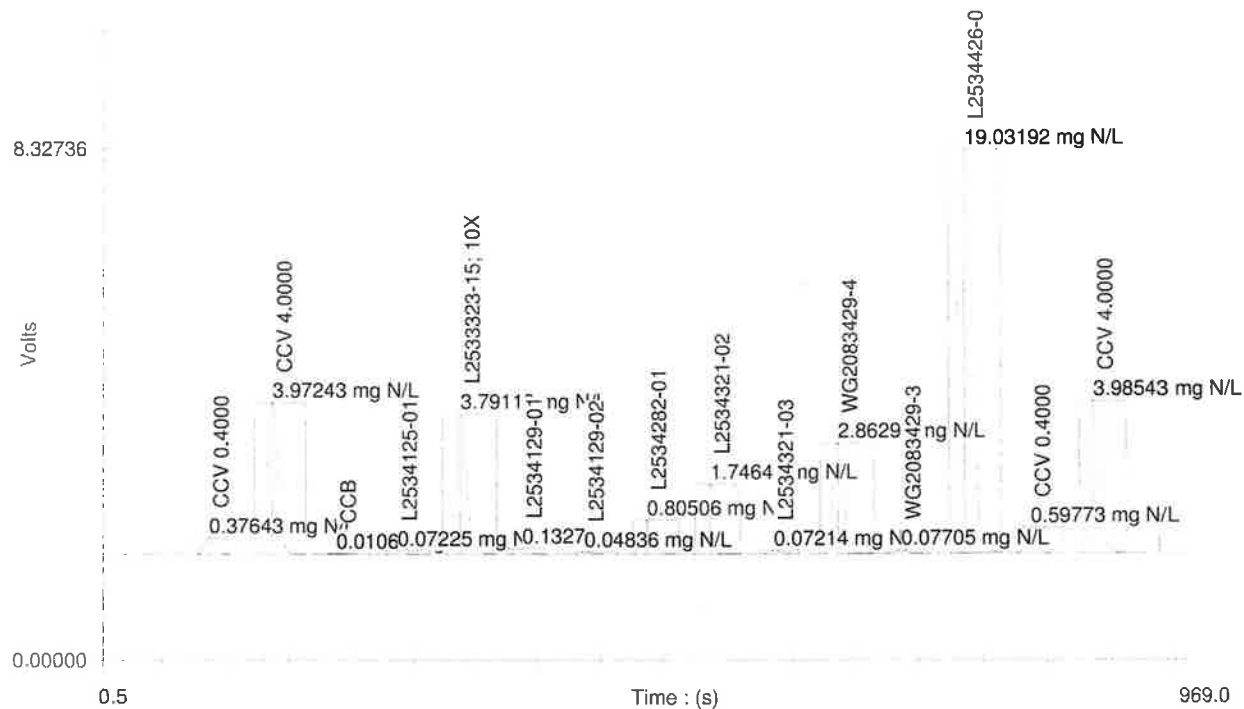
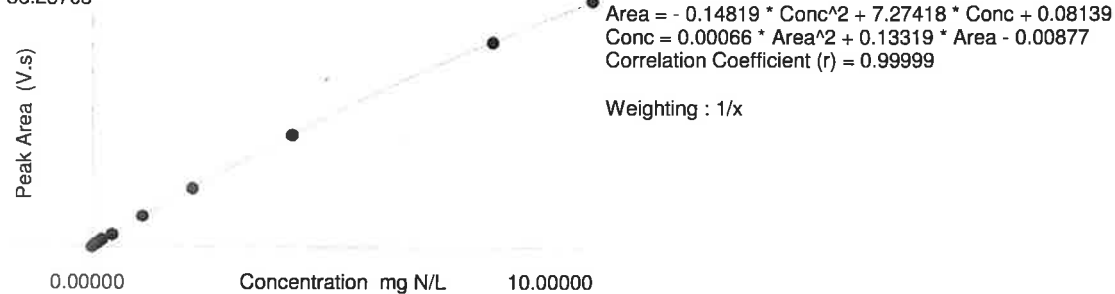


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	58.28703	5.07393	0.0	-0.5	9.99554	6/26/2025	11:29:40 AM
2	8.00000	1	48.54877	4.35616	0.0	0.5	8.01224	6/26/2025	11:30:36 AM
3	4.00000	1	26.61365	2.49254	0.0	0.7	4.00316	6/26/2025	11:31:34 AM
4	2.00000	1	13.91085	1.32241	0.0	0.9	1.97170	6/26/2025	11:32:31 AM
5	1.00000	1	7.33020	0.69122	0.0	-1.7	1.00300	6/26/2025	11:33:29 AM
6	0.40000	1	2.89553	0.26844	0.0	2.4	0.38242	6/26/2025	11:34:27 AM
7	0.20000	1	1.67483	0.15669	0.0	-9.4	0.21615	6/26/2025	11:35:25 AM
8	0.10000	1	0.86308	0.07918	0.0	-6.9	0.10667	6/26/2025	11:36:23 AM
9	0.05000	1	0.47176	0.04216	0.0	-6.1	0.05421	6/26/2025	11:37:20 AM
10	0.00000	1	-0.00114	0.00190			-0.00892	6/26/2025	11:38:17 AM

Figure : 1 (Ammonia)

58.28703



Author: A1WETCHEMINSTRUMENT

Date : 6/26/2025

Original Run Filename: OM_6-26-2025_12-20-36PM.OMN Created: 6/26/2025 12:20:36 PM

Original Run Author's Signature: [A1WETCHEMINSTRUMENT]

Current Run Filename: OM_6-26-2025_12-20-36PM.OMN Last Modified: 6/26/2025 12:46:14 PM

Current Run Author's Signature: [A1WETCHEMINSTRUMENT]

Description: Default New Run

Sample	Rep.	Cup No.	Channel 2 Ammonia (mg N/L)	MDF	Weight	TRAY A
CCV 0.4000	1	S6	0.37794			94%
		Known Conc:	100.00000			
		Calibration:	Table/Fig. : 1			
CCV 4.0000	1	S3	3.95228			99%
		Known Conc:	100.00000			
CCB	1	S10	0.01185			
		Known Conc:	100.00000			
L2534426-02	1	21	0.11358	1.50		
L2534426-03	1	22	0.71826	7.50		
L2534426-04	1	23	0.12138	1.50		
L2534507-01	1	24	0.09016	1.50		
L2534507-02	1	25	0.07037	1.50		
WG2083429-6	1	26	3.99999	1.50		100%
X WG2083429-5	1	27	0.11792	1.50		RERUN
L2534507-03	1	28	0.15535	3.00		
L2535138-01	1	29	0.04813	1.50		
L2535138-02	1	30	0.09284	1.50		
CCV 0.4000	1	S6	0.38210			96%
		Known Conc:	100.00000			
CCV 4.0000	1	S3	3.96271			99%
		Known Conc:	100.00000			
CCB	1	S10	0.01662			
		Known Conc:	100.00000			
WG2083429-5	1	27	0.05755	1.50		RPD=NC
L2534125-01	1	12	0.10486	1.50		
L2534426-01; 20X	1	20	31.82406	30.00		
CCV 0.4000	1	S6	0.37762			94%
		Known Conc:	100.00000			
CCV 4.0000	1	S3	3.94582			99%
		Known Conc:	100.00000			
CCB	1	S10	0.01141			
		Known Conc:	100.00000			

Channel 2 (Ammonia High) - Current View

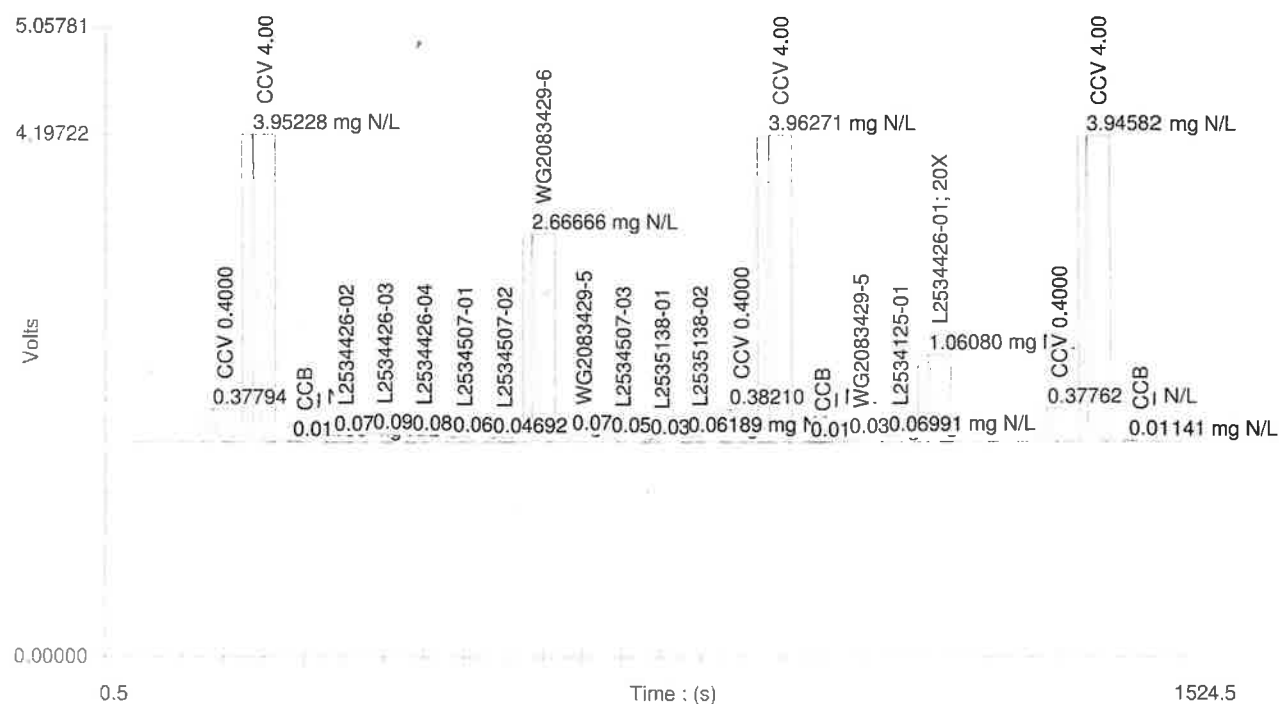
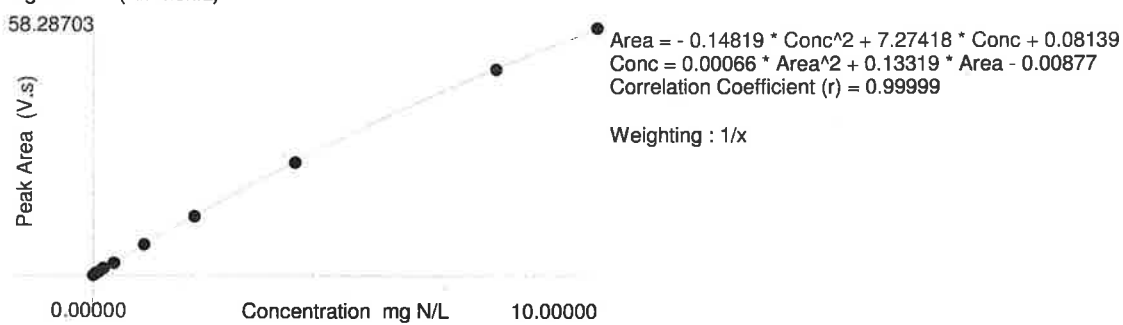


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	58.28703	5.07393	0.0	-0.5	9.99554	6/26/2025	11:29:40 AM
2	8.00000	1	48.54877	4.35616	0.0	0.5	8.01224	6/26/2025	11:30:36 AM
3	4.00000	1	26.61365	2.49254	0.0	0.7	4.00316	6/26/2025	11:31:34 AM
4	2.00000	1	13.91085	1.32241	0.0	0.9	1.97170	6/26/2025	11:32:31 AM
5	1.00000	1	7.33020	0.69122	0.0	-1.7	1.00300	6/26/2025	11:33:29 AM
6	0.40000	1	2.89553	0.26844	0.0	2.4	0.38242	6/26/2025	11:34:27 AM
7	0.20000	1	1.67483	0.15669	0.0	-9.4	0.21615	6/26/2025	11:35:25 AM
8	0.10000	1	0.86308	0.07918	0.0	-6.9	0.10667	6/26/2025	11:36:23 AM
9	0.05000	1	0.47176	0.04216	0.0	-6.1	0.05421	6/26/2025	11:37:20 AM
10	0.00000	1	-0.00114	0.00190			-0.00892	6/26/2025	11:38:17 AM

Figure : 1 (Ammonia)



Original Run Filename: OM_6-26-2025_04-51-39PM.OMN Created: 6/26/2025 4:51:39 PM

Original Run Author's Signature: [A1WETCHEMINSTRUMENT]

Current Run Filename: OM_6-26-2025_04-51-39PM.OMN Last Modified: 6/26/2025 5:26:43 PM

Current Run Author's Signature: [A1WETCHEMINSTRUMENT]

Description: Default New Run



Sample	Rep.	Cup No.	Channel 2	ADF	MDF	Weight
			Ammonia (mg N/L)			
CCV 0.4000	1	S6	0.36516	91%		
		Known Conc:	100.00000			
CCV 4.0000	1	S3	3.72797	93%		
		Known Conc:	100.00000			
		Calibration:	Table/Fig. : 1			
CCB	1	S10	0.01781			
		Known Conc:	100.00000			
WG2083445-1 T; BLK 6/25	1	1	0.03662			
WG2083445-2 T; HI LCS; 5X	1	2	35.87130		15.00	90%
LO LCS T	1	3	3.52869		3.00	88%
L2534177-01 T; 10X	1	4	301.42670		150.00	
L2536865-01 T	1	5	136.99580		30.00	
L2536865-02 T	1	6	0.37493		3.00	
L2538975-01 T	1	7	1.24625		3.00	
L2539000-01 T	1	8	0.45281		3.00	
L2534748-01 T	1	9	8.54083		3.00	
L2534748-02 T	1	10	0.75300		3.00	
CCV 0.4000	1	S6	0.37794	95%		
		Known Conc:	100.00000			
CCV 4.0000	1	S3	3.72716	93%		
		Known Conc:	100.00000			
CCB	1	S10	0.02519			
		Known Conc:	100.00000			
L2539680-01 T	1	11	0.40991		3.00	
L2538362-01 T	1	12	2.85732		3.00	
L2538382-01 T	1	13	0.13306		3.00	
L2538382-02 T	1	14	0.14241		3.00	
L2538382-03 T	1	15	0.04277		3.00	
L2538382-04 T	1	16	0.18543		3.00	
L2538382-05 T	1	17	0.04468		3.00	
L2538382-06 T	1	18	0.00901		3.00	
WG2083445-4 T; 38382.6 MS	1	19	7.03558		3.00	88%
WG2083445-3 T; 38382.6 DUP	1	20	0.14626		3.00	NC
CCV 0.4000	1	S6	0.36548	91%		
		Known Conc:	100.00000			
CCV 4.0000	1	S3	3.72640	93%		
		Known Conc:	100.00000			
CCB	1	S10	0.02270			
		Known Conc:	100.00000			

Channel 2 (Ammonia High) - Current View

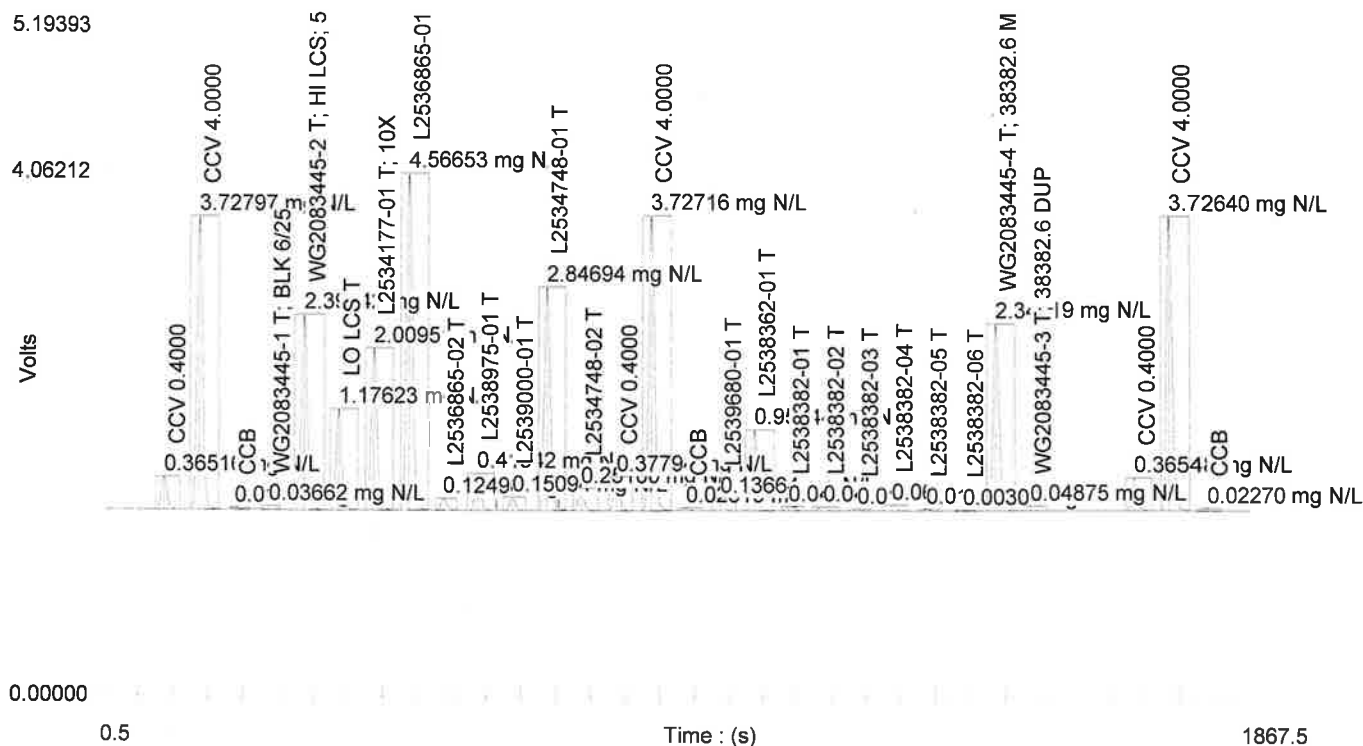
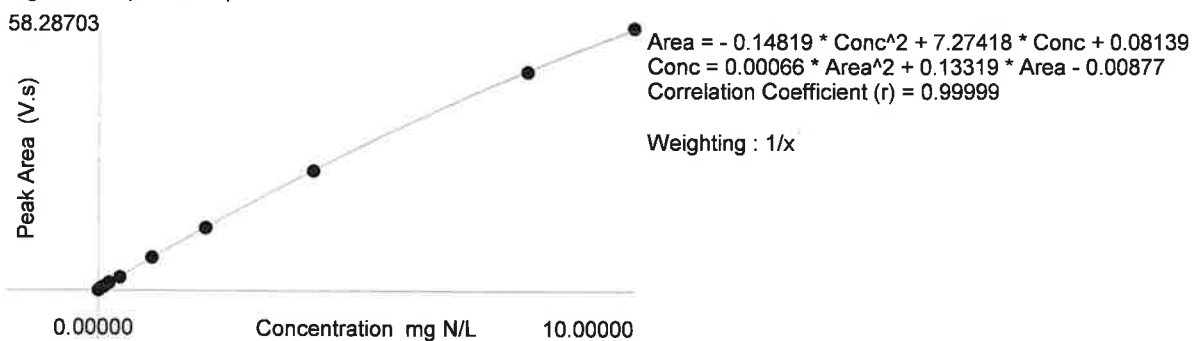


Table : 1 (Ammonia)

	Known Conc. (mg N/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg N/L)	Detection Date	Detection Time
1	10.00000	1	58.28703	5.07393	0.0	-0.5	9.99554	6/26/2025	11:29:40 AM
2	8.00000	1	48.54877	4.35616	0.0	0.5	8.01224	6/26/2025	11:30:36 AM
3	4.00000	1	26.61365	2.49254	0.0	0.7	4.00316	6/26/2025	11:31:34 AM
4	2.00000	1	13.91085	1.32241	0.0	0.9	1.97170	6/26/2025	11:32:31 AM
5	1.00000	1	7.33020	0.69122	0.0	-1.7	1.00300	6/26/2025	11:33:29 AM
6	0.40000	1	2.89553	0.26844	0.0	2.4	0.38242	6/26/2025	11:34:27 AM
7	0.20000	1	1.67483	0.15669	0.0	-9.4	0.21615	6/26/2025	11:35:25 AM
8	0.10000	1	0.86308	0.07918	0.0	-6.9	0.10667	6/26/2025	11:36:23 AM
9	0.05000	1	0.47176	0.04216	0.0	-6.1	0.05421	6/26/2025	11:37:20 AM
10	0.00000	1	-0.00114	0.00190			-0.00892	6/26/2025	11:38:17 AM

Figure : 1 (Ammonia)



Quality Control

Form 5a Matrix Spike

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : MW-12D
 Lab Sample ID : L2538382-06
 Matrix Spike : WG2083445-4
 Matrix Spike Dup :

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Matrix : WATER
 MS Analysis Date : 06/26/25 17:19
 MSD Analysis Date :

Parameter	Sample Conc. (mg/l)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R			
Nitrogen, Total Kjeldahl	ND	8	7.04	88					77-111	24

Form 5a Matrix Spike

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : NA
 Lab Sample ID : L2534995-01
 Matrix Spike : WG2083974-4
 Matrix Spike Dup :

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Matrix : WATER
 MS Analysis Date : 06/27/25 22:16
 MSD Analysis Date :

Parameter	Sample Conc. (mg/l)	Matrix Spike Sample		%R	Matrix Spike Duplicate		%R	RPD	Recovery Limits	RPD Limit
		Spike Added (mg/l)	Spike Conc. (mg/l)		Spike Added (mg/l)	Spike Conc. (mg/l)				
Nitrogen, Total Kjeldahl	0.426	8	8.58	102					77-111	24

Form 6 Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Client Sample ID	: MW-12D	Matrix	: WATER
Lab Sample ID	: L2538382-06	Analysis Date	: 06/26/25 17:18
Dup Sample ID	: WG2083445-3	DUP Analysis Date	: 06/26/25 17:20

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Nitrogen, Total Kjeldahl	ND	0.146J	NC	24



Form 6 Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Client Sample ID	: NA	Matrix	: WATER
Lab Sample ID	: NA	Analysis Date	: 06/27/25 22:15
Dup Sample ID	: WG2083974-3	DUP Analysis Date	: 06/27/25 22:17

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Nitrogen, Total Kjeldahl	0.426	0.466	9	24



Form 7

Laboratory Control Sample

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : NA
 Lab Sample ID : WG2083445-2
 Dup Sample ID :

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Matrix : WATER
 LCS Analysis Date : 06/26/25 17:00
 LCSD Analysis Date :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R			
Nitrogen, Total Kjeldahl	40.0	35.9	90.					78-122	24

Form 7 Laboratory Control Sample

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : NA
 Lab Sample ID : WG2083974-2
 Dup Sample ID :

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Matrix : WATER
 LCS Analysis Date : 06/27/25 22:13
 LCSD Analysis Date :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R			
Nitrogen, Total Kjeldahl	40.0	38.2	96.					78-122	24



Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

[illegible]

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the Information provided in this table is subject to change at anytime at the discretion of the laboratory.

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

[illegible]

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soll/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of the laboratory.

Calculations of Nitrogen in TKN

Aqueous samples:

Compute sample TKN –N concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

If the sample has a concentration of less than 2ppm, calculate results by using the low curve generated on Channel 1.

If the sample concentration is greater than 2ppm, calculate the results by using the high curve generated on Channel 2.

To Compute the final results for aqueous samples, multiply the direct reading by the dilution factor based on the initial preparation volume. (also done using software)

$$\text{TKN-N mg/L} = \text{mg/L direct reading} \times \text{dilution factor}$$

Sequence Logs

NH₃ 6/26/25 KEM

Continued from Page

Tray A (11-27-39 AM, 11-58-40 AM, 12-20-36 PM)
prep 6/25/25 @ 21:43

Tray B (12-49-22 PM, 01-40-23 PM)
prep 6/25/25 @ 15:25

- 1 Hi I CV 8.0
- 2 hi I CV 1.0
- 3 ICB
- 4 WG2083429-1: Blk
- 5 -2; LCS H₂ SX
- 6 LCS 20
- 7 33323-10 (20x); 10x 110
- 8 -12 (20x); 10x 110
- 9 -13 (20x); 10x 110
- 10 -14 (20x); 10x 110
- 11 -15 (20x); 10x 110
- 12 ~~3425~~ 34125-01; remn
- 13 34129-01
- 14 02
- 15 34282-01
- 16 34321-02 (5x)
- 17 03
- 18 03 MS
- 19 03 Dup
- 20 3 4426-01; 20x 0.5 110
- 21 02
- 22 03 (5x)
- 23 04
- 24 34507-01
- 25 02
- 26 02 MS
- 27 02 Dup; remn
- 28 03 (2x)
- 29 35138-01
- 30 02

- 1 WG2083379-17: Blk
- 2 -2; LCS H₂ SX
- 3 LCS 20
- 4 33323-10T (10x); 10x 110
- 5 -12T (10x); 10x 110
- 6 -13T (10x); 10x 110
- 7 -14T (10x); 10x 110
- 8 -15T (10x); 10x 110
- 9 34129-01T
- 10 02T
- 11 06T
- 12 07T
- 13 09T
- 14 10T
- 15 11T (2x)
- 16 12T
- 17 13T; 10x 110
- 18 13T MS; 10x 110
- 19 13T Dup; 10x 110
- 20 14T

Date: 6/26/25 R-4361
Sodium Phenolate: 6/21/25 stop shop
Sodium Hypochlorate: 6/21/25 stop shop
Sodium Nitroprusside: 6/21/25 R-3969
Boric Acid Soln.: 6/21/25 R-4266
ICV 1.0: 6/20/25 WC-3612
ICV 8.0: 6/20/25 WC-3561
Cal. Std: 6/21/25 WC-3561
See Front Page for Instructions:

KEM

KEM

Continued from Page

SIGNATURE

DATE

DISCLOSED TO AND UNDERSTOOD BY

DATE

PROPRIETARY INFORMATION

MH, 6/26/25

(AT)

Cont.

TITLE

PROJECT

Continued from Page

fig. E (09:51:39 PM)
11p 6/25/25 @ 229

1 W-2083445-1 T-BM 6/25

2 W-2083445-2 T-Hi us 57

3 Cont T

4 34177.1 T (57) -104

5 36865.1 T (104)

6 .2 T

7 38975.1 T

8 39000.1 T

9 34748.1 T

10 .2 T

11 39680.1 T

12 38362.1 T

13 38382.1 T

14 .2 T

15 -3 T

16 .4 T

17 -5 T

18 .6 T

17 W-2083445-4 T, 38382.6 ms

26 W-2083445-3 T, 38382.6 Tg

Continued from Page

SIGNATURE

DATE

DISCLOSED TO AND UNDERSTOOD BY

DATE

PROPRIETARY INFORMATION

NH₃ 6/27/25 @

TITLE

PROJECT

Continued from Page

tg-A (06-01-568m)
py 6/26/25 @2201

tg-B (06-57-508m)
py 6/26/25 @2204

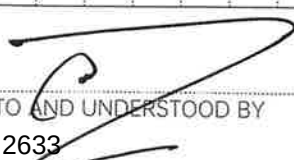
- 1 Hi IW 8.0
- 2 Lo IW 1.0
- 3 IUB
- 4 Wt 2083971-1; Blue 6/26
- 5 Wt 2083971-2; Hi us 5+
- 6 Lo us
- 7 34129.6
- 8 Wt 2083971-4; 34129.6 us
- 9 Wt 2083971-3; 34129.6 us
- 10 34129.7
- 11 Wt 2083971-6; 34129.7 us
- 12 Wt 2083971-5; 34129.7 us
- 13 34373.1 (Cr)
- 14 .2
- 15 35107.1
- 16 .2
- 17 35113.1
- 18 .2
- 19 35117.1
- 20 35118.1
- 21 35122.1
- 22 35124.1
- 23 35127.1
- 24 35130.1
- 25 35134.1
- 26 .2
- 27 .3
- 28 .4
- 29 .5
- 30 .6

- 1 Wt 2083972-1; Au 6/26
- 2 Wt 2083972-2; Hi us 5+
- 3 Lo us
- 4 34514.3 - 20+
- 5 35017.1
- 6 Wt 2083972-4; 35017.1 us
- 7 Wt 2083972-3; 35017.1 us
- 8 35207.7
- 9 .10
- 10 .16
- 11 35209.2
- 12 .5
- 13 .8
- 14 .14
- 15 35814.7
- 16 .10
- 17 .19
- 18 .25
- 19 35819.17
- 20 .26
- 21 35820.17
- 22 35822.1
- 23 .10
- 24 .13
- 25 .19
- 26 LOQ2

Date: 6/27/25
Sodium Phenolate: 6/2/25 R-4361
Sodium Hypochlorate: 6/2/25 9709 360
Sodium Nitroprusside: 6/2/25 R-3969
Boric Acid Soln.: 6/2/25 R-4266
ICV 1.0: 6/20/25 WC-3612
ICV 8.0:
Cal. Std: 6/2/25 WC-3561
See Front Page for Instructions:

Continued from Page

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Dr. --

NH₃ 6/27/84 @ Cont.

TITLE

PROJECT

Continued from Page

fg. C (08.36.29 PM)
P-2 6/27/84 @ 0012

fg. D (09.27.26 PM)
P-2 6/27/84 @ 0012

- 1 Wb 2084114-1; Blu 6/27
- 2 Wb 2084114-2; Hi us 5.0
- 3 Wb us
- 4 34777.1
- 5 -2
- 6 34778.1
- 7 34779.6
- 8 .7
- 9 .8
- 10 .9
- 11 filter Blu
- 12 34779.10
- 13 34841.2
- 14 Wb 2084114-4; 34841.2 us
- 15 Wb 2084114-3; 34841.2 us
- 16 34841.4
- 17 .6
- 18 .8
- 19 .10
- 20 .12

- 1 Wb 2084113-1; Blu 6/27
- 2 Wb 2084113-2; Hi us 5.0
- 3 Wb us
- 4 34772.1 (50) -50+
- 5 .2 (50) -50+
- 6 .3 -10+
- 7 34335.1 -10+
- 8 .2
- 9 34779.1
- 10 .2
- 11 34704.1
- 12 34720.1 -10+
- 13 .2
- 14 34771.1 -10+
- 15 .2 -10+
- 16 34779.3
- 17 Wb 2084113-4; 34779.3 us
- 18 Wb 2084113-3; 34779.3 us
- 19 34779.4
- 20 .5

Continued from Page

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PROPRIETARY INFORMATION

tg NH₃ 6/23/15 @ Cont.

BOOK

39
PAGE

TITLE

PROJECT

Continued from Page

tg-E (10-0901 PM)
Pgs 6/24/15 @ 2215

- 1 Wb 2083974-1 T. Blk 6/26
- 2 Wb 2083974-2 T. Hi us T+
- 3 low T
- 4 34995.1 T
- 5 Wb 2083974-4 T. 34995.1 m)
- 6 Wb 2083974-3 T. 34995.1 m)
- 7 35000.1 T
- 8 35005.1 T (20)
- 9 35007.1 T (5+)
- 10 35010.1 T (10+)
- 11 38382.7 T
- 12 38805.1 T
- 13 .2 T
- 14 .3 T
- 15 .4 T
- 16 .5 T
- 17 .6 T
- 18 35003.1 T (5+)
- 19 35002.1 T (10+)
- 20 35008.1 T (10+)

tg-F (11-00-03 PM)
Pgs 6/24/15 @ 2207

- 1 Wb 2083978-1 T. Blk 6/25
- 2 Wb 2083978-2 T. Hi us T+
- 3 low T
- 4 34732.1 T (10+) -50+
- 5 .2 T (5+) -50+
- 6 .3 T -10+
- 7 34726.1 T
- 8 34755.1 T
- 9 34766.1 T (5+)
- 10 .2 T (5+)
- 11 34768.1 T
- 12 .2 T
- 13 34771.1 T -10+
- 14 .2 T -10+
- 15 34774.1 T
- 16 .2 T
- 17 35028.1 T -
- 18 Wb 2083978-4 T. 35028.1 m)
- 19 Wb 2083978-3 T. 35028.1 m)
- 20 LOR (Wb 2083978-5)

Continued from Page

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PROPRIETARY INFORMATION

NLS 6/27/25 (A) Cont.

TITLE

PROJECT

Continued from Page

6/28/25

tg-G (11-3237PM)
Prg 6/27/25 @2138

tg-H (12-11-51 AM)
Prg 6/27/25 @2142

1 WU2084454-1; Bu 6/27
2 WU2084454-2; Hi 43-5 +
3 low
4 34856.3
5 WU2084454-4; 34856.3 ms
6 WU2084454-3; 34856.3 128
7 34661.1
8 .2
9 35216.3
10 .4
11 .5 (10+)
12 .6
13 .7
14 .8
15 .9
16 .10
17 .11 -
18 36054.1
19 36287.1
20 .2
21 .4
22 .5
23 35717-1
24 .2
25 .3 -

1 WU2084459-1; Bu 6/27
2 WU2084459-2; Hi 43-5 +
3 low
4 34629.1
5 WU2084459-4; 34629.1 ms
6 WU2084459-3; 34629.1 128
7 34726.1
8 34788.2
9 34796.1
10 35809.11
11 .17
12 36553.1 (27)
13 .2
14 35889.1
15 .2
16 .3
17 .4
18 35809.20
19 .23
20 35822.4
21 .7
22 .16
23 35830.1
24 .2
25 35822.22

SIGNATURE

DATE

Continued from Page

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DATE

PROPRIETARY INFORMATION

Sample Preparation

WG2083974



Samples				Vol	Dilutions	FinVol
Blank				50ml	1x	150ml
Low						
High						
1253	4995	-01	PA			
	5000	-01				
	5002	-01			10x (5↑50) matrix	
	5003	-01			5x (10↑50) N=11.053	
	5005	-01			2x (25↑50) N=9.79	
	5007	-01			5x (10↑50) N=11.9	
	5008	-01			10x (5↑50) N=27.14	
	5010	-01			50x (1↑50) N=66.8	
	8382	-07			1x	
	8805	-01				
Missed mix 6/26/25	8807	-02				
		-03				
		-04				
		-05				
		-06				
	4995	-01	DUP			
		-01	MS			
all standards and reagents same as 6/26/25 @ 22:15 N/C + GEF						
page # 127						

Facility: Westborough, MA

Pace Analytical

WG2083445



Samples			Vol	Dilutions	Fin Vol
			50mL	1x	150mL
Blank				↓	
Low					
High				5x (10/50) matrix	
1253	4177	-01			
	4748	-01		1x	
		-02			
	6865	-01		10x (5/50) matrix	
		-02			
	8362	-01		1x	
	8382	-01			
		-02			
		-03			
		-04			
		-05			
		-06 PA			
		-06 DUP			
		-06 MS			
	8975	-01			
	9000	-01			
	9680	-01			
Same standards and reagents as page # 125			↓	↓	↓
					6/25/25 @ 22:19
					NSC, GEF

Nitrate and Nitrite Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-01	Date Collected	: 06/18/25 09:00
Client ID	: MW-8S	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/20/25 03:23
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500NO3-F	Analyst	: KAF
Lab File ID	: NO3250620-A1	Instrument ID	: FIA1
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Nitrogen, Nitrite	ND	0.050	0.013	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-02	Date Collected	: 06/18/25 09:05
Client ID	: MW-8D	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/20/25 03:24
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500NO3-F	Analyst	: KAF
Lab File ID	: NO3250620-A1	Instrument ID	: FIA1
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Nitrogen, Nitrite	ND	0.050	0.013	U

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-03	Date Collected	: 06/18/25 10:30
Client ID	: MW-5D	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/20/25 03:25
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500NO3-F	Analyst	: KAF
Lab File ID	: NO3250620-A1	Instrument ID	: FIA1
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Nitrogen, Nitrite	ND	0.050	0.013	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-04	Date Collected	: 06/18/25 10:45
Client ID	: PZ-5	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/20/25 03:26
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500NO3-F	Analyst	: KAF
Lab File ID	: NO3250620-A1	Instrument ID	: FIA1
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Nitrogen, Nitrite	ND	0.050	0.013	U

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-05	Date Collected	: 06/18/25 13:20
Client ID	: MW-12S	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/20/25 03:27
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500NO3-F	Analyst	: KAF
Lab File ID	: NO3250620-A1	Instrument ID	: FIA1
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Nitrogen, Nitrite	ND	0.050	0.013	U

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-06	Date Collected	: 06/18/25 13:22
Client ID	: MW-12D	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/20/25 03:32
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500NO3-F	Analyst	: KAF
Lab File ID	: NO3250620-A1	Instrument ID	: FIA1
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Nitrogen, Nitrite	ND	0.050	0.013	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-07	Date Collected	: 06/18/25 12:00
Client ID	: DUP_06182025	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/20/25 03:35
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500NO3-F	Analyst	: KAF
Lab File ID	: NO3250620-A1	Instrument ID	: FIA1
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Nitrogen, Nitrite	ND	0.050	0.013	U

Form 1

WETCHEM

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Lab ID : WG2081255-1
Client ID : WG2081255-1BLANK
Sample Location :
Sample Matrix : WATER
Analytical Method : 121,4500NO3-F
Lab File ID : NO3250620-A1
Sample Amount :
Digestion Method :

Lab Number : L2538382
Project Number : 2232.0006Y005
Date Collected : NA
Date Received : NA
Date Analyzed : 06/20/25 02:56
Dilution Factor : 1
Analyst : KAF
Instrument ID : FIA1
%Solids : N/A
Date Digested :

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Nitrogen, Nitrite	ND	0.050	0.013	U



Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: WG2081255-3	Date Collected	: 06/18/25 13:22
Client ID	: MW-12DDUP	Date Received	: 06/18/25
Sample Location	:	Date Analyzed	: 06/20/25 03:13
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500NO3-F	Analyst	: KAF
Lab File ID	: NO3250620-A1	Instrument ID	: FIA1
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Nitrogen, Nitrite	ND	0.050	0.013	U



Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-01	Date Collected	: 06/18/25 09:00
Client ID	: MW-8S	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/20/25 03:23
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500NO3-F	Analyst	: KAF
Lab File ID	: NO3250620-A1	Instrument ID	: FIA1
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
14797-55-8	Nitrogen, Nitrate	2.13	0.100	0.022	

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-02	Date Collected	: 06/18/25 09:05
Client ID	: MW-8D	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/20/25 03:24
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500NO3-F	Analyst	: KAF
Lab File ID	: NO3250620-A1	Instrument ID	: FIA1
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
14797-55-8	Nitrogen, Nitrate	4.39	0.100	0.022	

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-03	Date Collected	: 06/18/25 10:30
Client ID	: MW-5D	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/20/25 03:25
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500NO3-F	Analyst	: KAF
Lab File ID	: NO3250620-A1	Instrument ID	: FIA1
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
14797-55-8	Nitrogen, Nitrate	6.72	0.100	0.022	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-04	Date Collected	: 06/18/25 10:45
Client ID	: PZ-5	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/20/25 03:26
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500NO3-F	Analyst	: KAF
Lab File ID	: NO3250620-A1	Instrument ID	: FIA1
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
14797-55-8	Nitrogen, Nitrate	1.36	0.100	0.022	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-05	Date Collected	: 06/18/25 13:20
Client ID	: MW-12S	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/20/25 03:27
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500NO3-F	Analyst	: KAF
Lab File ID	: NO3250620-A1	Instrument ID	: FIA1
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
14797-55-8	Nitrogen, Nitrate	3.75	0.100	0.022	



Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-06	Date Collected	: 06/18/25 13:22
Client ID	: MW-12D	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/20/25 03:32
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500NO3-F	Analyst	: KAF
Lab File ID	: NO3250620-A1	Instrument ID	: FIA1
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
14797-55-8	Nitrogen, Nitrate	4.46	0.100	0.022	

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-07	Date Collected	: 06/18/25 12:00
Client ID	: DUP_06182025	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/20/25 05:30
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500NO3-F	Analyst	: KAF
Lab File ID	: NO3250620-A1	Instrument ID	: FIA1
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
14797-55-8	Nitrogen, Nitrate	3.88	0.100	0.022	

Form 1

WETCHEM

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Lab ID : WG2081258-1
Client ID : WG2081258-1BLANK
Sample Location :
Sample Matrix : WATER
Analytical Method : 121,4500NO3-F
Lab File ID : NO3250620-A1
Sample Amount :
Digestion Method :

Lab Number : L2538382
Project Number : 2232.0006Y005
Date Collected : NA
Date Received : NA
Date Analyzed : 06/20/25 03:04
Dilution Factor : 1
Analyst : KAF
Instrument ID : FIA1
%Solids : N/A
Date Digested :

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
14797-55-8	Nitrogen, Nitrate	ND	0.100	0.022	U

Form 1

WETCHEM

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Lab ID : WG2081258-3
Client ID : MW-12DDUP
Sample Location :
Sample Matrix : WATER
Analytical Method : 121,4500NO3-F
Lab File ID : NO3250620-A1
Sample Amount :
Digestion Method :

Lab Number : L2538382
Project Number : 2232.0006Y005
Date Collected : 06/18/25 13:22
Date Received : 06/18/25
Date Analyzed : 06/20/25 03:33
Dilution Factor : 1
Analyst : KAF
Instrument ID : FIA1
%Solids : N/A
Date Digested :

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
14797-55-8	Nitrogen, Nitrate	4.45	0.100	0.023	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-01	Date Collected	: 06/18/25 09:00
Client ID	: MW-8S	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/20/25 03:23
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500NO3-F	Analyst	: KAF
Lab File ID	: NO3250620-A1	Instrument ID	: FIA1
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Nitrogen, Nitrate/Nitrite	2.1	0.10	0.046	

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-02	Date Collected	: 06/18/25 09:05
Client ID	: MW-8D	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/20/25 03:24
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500NO3-F	Analyst	: KAF
Lab File ID	: NO3250620-A1	Instrument ID	: FIA1
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Nitrogen, Nitrate/Nitrite	4.4	0.10	0.046	

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-03	Date Collected	: 06/18/25 10:30
Client ID	: MW-5D	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/20/25 03:25
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500NO3-F	Analyst	: KAF
Lab File ID	: NO3250620-A1	Instrument ID	: FIA1
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Nitrogen, Nitrate/Nitrite	6.7	0.10	0.046	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-04	Date Collected	: 06/18/25 10:45
Client ID	: PZ-5	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/20/25 03:26
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500NO3-F	Analyst	: KAF
Lab File ID	: NO3250620-A1	Instrument ID	: FIA1
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Nitrogen, Nitrate/Nitrite	1.4	0.10	0.046	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-05	Date Collected	: 06/18/25 13:20
Client ID	: MW-12S	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/20/25 03:27
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500NO3-F	Analyst	: KAF
Lab File ID	: NO3250620-A1	Instrument ID	: FIA1
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Nitrogen, Nitrate/Nitrite	3.8	0.10	0.046	

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-06	Date Collected	: 06/18/25 13:22
Client ID	: MW-12D	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/20/25 03:32
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500NO3-F	Analyst	: KAF
Lab File ID	: NO3250620-A1	Instrument ID	: FIA1
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Nitrogen, Nitrate/Nitrite	4.5	0.10	0.046	

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-07	Date Collected	: 06/18/25 12:00
Client ID	: DUP_06182025	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/20/25 05:30
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500NO3-F	Analyst	: KAF
Lab File ID	: NO3250620-A1	Instrument ID	: FIA1
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Nitrogen, Nitrate/Nitrite	3.9	0.10	0.046	

Form 1

WETCHEM

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Lab ID : WG2081262-1
 Client ID : WG2081262-1BLANK
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 121,4500NO3-F
 Lab File ID : NO3250620-A1
 Sample Amount :
 Digestion Method :

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 06/20/25 03:04
 Dilution Factor : 1
 Analyst : KAF
 Instrument ID : FIA1
 %Solids : N/A
 Date Digested :

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Nitrogen, Nitrate/Nitrite	ND	0.10	0.046	U



Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: WG2081262-3	Date Collected	: 06/18/25 13:22
Client ID	: MW-12DDUP	Date Received	: 06/18/25
Sample Location	:	Date Analyzed	: 06/20/25 03:33
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500NO3-F	Analyst	: KAF
Lab File ID	: NO3250620-A1	Instrument ID	: FIA1
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Nitrogen, Nitrate/Nitrite	4.4	0.10	0.05	

Sample Raw Data

Graphical report generated by FIAsoft v3.1.10

Report generated on 2025-06-20 07:20:29

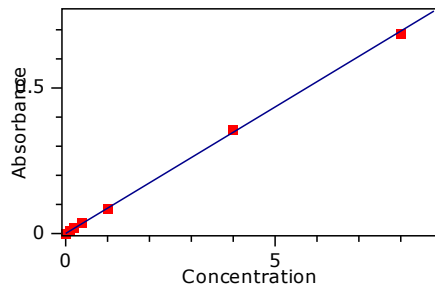
Data file (.dat): C:\FIALab\Autosave Data\2025-06-20-071959.dat

Dataset Notes:

Analyst	
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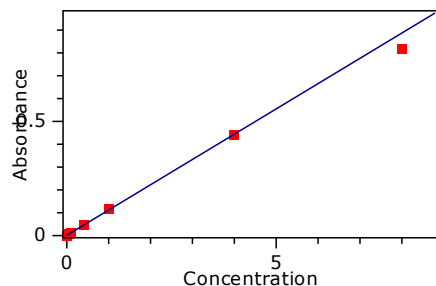
Dataset Notes Table Location: C:\FIALab\FIALab User Files\Tables\Dataset Notes\Analyst.csv

Calibrations:



Channel: 1-NOx
 Fit_Order: 1
 Weighting: 1/response
 Standard relation
 Coefficients:
 A: 0.00025
 B: 0.08691
 R^2 : 0.99974
 RSE(%): 2.03130
 % Max. for OVR: 100

InjNo	Name	Response	Known Conc. mg/L	Calc. Conc. mg/L	% Error	Time
2	NOx 8.0ppm	0.68500	8.00000	7.87850	1.52	2025-06-20T02:15:46
3	NOx 4.0ppm	0.35430	4.00000	4.07340	1.83	2025-06-20T02:16:56
4	NOx 1.0ppm	0.08550	1.00000	0.98060	1.94	2025-06-20T02:18:04
5	NOx 0.4ppm	0.03590	0.40000	0.41050	2.61	2025-06-20T02:19:12
6	NOx 0.2ppm	0.01760	0.20000	0.19920	0.42	2025-06-20T02:20:22
7	NOx 0.1ppm	0.00890	0.10000	0.09980	0.24	2025-06-20T02:21:32
8	NOx 0.0ppm	0.00000	0.00000	-0.00270	NA	2025-06-20T02:22:27



Channel: 2-NO2
 Fit_Order: 1
 Weighting: 1/response
 Standard relation
 Coefficients:
 A: 0.00114
 B: 0.11073
 R^2 : 0.99863
 RSE(%): 7.02622
 % Max. for OVR: 100

InjNo	Name	Response	Known Conc. mg/L	Calc. Conc. mg/L	% Error	Time
9	Nitrite 8.0ppm	0.81540	8.00000	7.35360	8.08	2025-06-20T02:23:43
10	Nitrite 4.0ppm	0.44000	4.00000	3.96380	0.90	2025-06-20T02:24:53
11	Nitrite 1.0ppm	0.11530	1.00000	1.03110	3.11	2025-06-20T02:26:00
12	Nitrite 0.4ppm	0.04850	0.40000	0.42740	6.85	2025-06-20T02:27:10
13	Nitrite 0.1ppm	0.01300	0.10000	0.10730	7.31	2025-06-20T02:28:20
14	Nitrite 0.05ppm	0.00640	0.05000	0.04770	4.61	2025-06-20T02:29:31
15	Nitrite 0.0ppm	0.00040	0.00000	-0.00660	NA	2025-06-20T02:30:52

Results:

Channel: 1-NOx

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
Stabil	1	Unknown	?	0.0001	1	1	1	-0.0014		2025-06-20T02:14:30
NOx 8.0ppm	2	Standard	8	0.6850	1	1	1	7.8785		2025-06-20T02:15:46
NOx 4.0ppm	3	Standard	4	0.3543	1	1	1	4.0734		2025-06-20T02:16:56
NOx 1.0ppm	4	Standard	1	0.0855	1	1	1	0.9806		2025-06-20T02:18:04
NOx 0.4ppm	5	Standard	0.4	0.0359	1	1	1	0.4105		2025-06-20T02:19:12
NOx 0.2ppm	6	Standard	0.2	0.0176	1	1	1	0.1992		2025-06-20T02:20:22
NOx 0.1ppm	7	Standard	0.1	0.0089	1	1	1	0.0998		2025-06-20T02:21:32
NOx 0.0ppm	8	Standard	0	0.0000	1	1	1	-0.0027		2025-06-20T02:22:27
Nitrite 8.0ppm	9	Standard	?	0.7191	1	1	1	8.2716	OVR	2025-06-20T02:23:54
Nitrite 4.0ppm	10	Standard	?	0.3787	1	1	1	4.3546		2025-06-20T02:25:04
Nitrite 1.0ppm	11	Standard	?	0.0933	1	1	1	1.0708		2025-06-20T02:26:13
Nitrite 0.4ppm	12	Standard	?	0.0389	1	1	1	0.4443		2025-06-20T02:27:21
Nitrite 0.1ppm	13	Standard	?	0.0101	1	1	1	0.1130		2025-06-20T02:28:32
Nitrite 0.05ppm	14	Standard	?	0.0051	1	1	1	0.0558		2025-06-20T02:29:42
Nitrite 0.0ppm	15	Standard	?	0.0001	1	1	1	-0.0017		2025-06-20T02:30:57
CCV NO3	16	QC	1	0.0870	1	1	1	0.9977		2025-06-20T02:32:00
CCV NO2	17	QC	?	0.0946	1	1	1	1.0857		2025-06-20T02:33:06
CCB	18	QC	0	0.0004	1	1	1	0.0015		2025-06-20T02:34:21
ICV NO3 5.0	19	QC	5	0.4402	1	1	1	5.0619		2025-06-20T02:35:26
ICV NO2 5.0	20	QC	?	0.4627	1	1	1	5.3214		2025-06-20T02:36:34
ICV NO3 0.5	21	QC	0.5	0.0404	1	1	1	0.4615		2025-06-20T02:37:43
ICV NO2 0.5	22	QC	?	0.0428	1	1	1	0.4900		2025-06-20T02:38:51
ICB	23	QC	0	-0.0001	1	1	1	-0.0036		2025-06-20T02:40:06
BLANK NO3	24	Unknown	?	0.0000	1	1	1	-0.0025		2025-06-20T02:41:13
LCS NO3	25	Unknown	?	0.4414	1	1	1	5.0763		2025-06-20T02:42:14
BLANK NO2	26	Unknown	?	-0.0003	1	1	1	-0.0059		2025-06-20T02:42:54
LCS NO2	27	Unknown	?	0.4599	1	1	1	5.2892		2025-06-20T02:44:28
CCV NO3	28	QC	1	0.0851	1	1	1	0.9759		2025-06-20T02:45:34
CCV NO2	29	QC	?	0.0956	1	1	1	1.0972		2025-06-20T02:46:40
CCB	30	QC	0	0.0003	1	1	1	0.0007		2025-06-20T02:47:57
WG2081253-1	31	Unknown	?	0.0000	1	1	1	-0.0030		2025-06-20T02:49:09
WG2081253-2	32	Unknown	?	0.4652	1	1	1	5.3499		2025-06-20T02:50:06

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
WG2081254-1	33	Unknown	?	-0.0007	1	1	1	-0.0112		2025-06-20T02:50:44
WG2081254-2	34	Unknown	?	0.4645	1	1	1	5.3421		2025-06-20T02:52:18
WG2081255-1	35	Unknown	?	-0.0003	1	1	1	-0.0061		2025-06-20T02:53:30
WG2081255-2	36	Unknown	?	0.4649	1	1	1	5.3461		2025-06-20T02:54:31
WG2081256-1	37	Unknown	?	-0.0006	1	1	1	-0.0101		2025-06-20T02:55:11
WG2081255-1	38	Unknown	?	0.0001	1	1	1	-0.0018		2025-06-20T02:56:52
WG2081256-2	39	Unknown	?	0.4441	1	1	1	5.1072		2025-06-20T02:57:51
WG2081257-1	40	Unknown	?	-0.0002	1	1	1	-0.0054		2025-06-20T02:58:31
CCV NO3	41	QC	1	0.0879	1	1	1	1.0089		2025-06-20T03:00:04
CCV NO2	42	QC	?	0.0950	1	1	1	1.0903		2025-06-20T03:01:11
CCB	43	QC	0	0.0003	1	1	1	0.0006		2025-06-20T03:02:29
WG2081257-2	44	Unknown	?	0.4441	1	1	1	5.1073		2025-06-20T03:03:32
WG2081258/262-1	45	Unknown	?	-0.0002	1	1	1	-0.0057		2025-06-20T03:04:12
WG2081258/262-2	46	Unknown	?	0.4372	1	1	1	5.0271		2025-06-20T03:05:45
WG2081259-1	47	Unknown	?	-0.0003	1	1	1	-0.0062		2025-06-20T03:06:24
WG2081259-2	48	Unknown	?	0.4386	1	1	1	5.0442		2025-06-20T03:07:57
WG2081260/261-1	49	Unknown	?	-0.0003	1	1	1	-0.0061		2025-06-20T03:08:35
WG2081260/261-2	50	Unknown	?	0.4394	1	1	1	5.0530		2025-06-20T03:10:08
L2538198-01A	51	Unknown	?	-0.0003	1	1	1	-0.0067		2025-06-20T03:10:46
L2538198-02A	52	Unknown	?	1.1833	1	1	1	13.6128	OVR	2025-06-20T03:12:19
WG2081255-3	53	Unknown	?	0.3740	1	1	1	4.3000		2025-06-20T03:13:25
CCV NO3	54	QC	1	0.0866	1	1	1	0.9934		2025-06-20T03:14:30
CCV NO2	55	QC	?	0.0953	1	1	1	1.0934		2025-06-20T03:15:36
CCB	56	QC	0	-0.0002	1	1	1	-0.0050		2025-06-20T03:16:20
WG2081255-4	57	Unknown	?	0.7433	1	1	1	8.5501	OVR	2025-06-20T03:17:53
L2538198-02A; 5 UP TO 25	58	Unknown	?	0.2945	5	1	1	16.9294		2025-06-20T03:18:59
L2538199-01A	59	Unknown	?	-0.0003	1	1	1	-0.0069		2025-06-20T03:19:36
L2538199-02A	60	Unknown	?	0.1119	1	1	1	1.2847		2025-06-20T03:21:09
L2538198-02A; 5 UP TO 25	61	Unknown	?	0.2948	5	1	1	16.9477		2025-06-20T03:22:15
L2538382-01M	62	Unknown	?	0.1854	1	1	1	2.1299		2025-06-20T03:23:21
L2538382-02M	63	Unknown	?	0.3815	1	1	1	4.3872		2025-06-20T03:24:28
L2538382-03M	64	Unknown	?	0.5847	1	1	1	6.7245		2025-06-20T03:25:35
L2538382-04M	65	Unknown	?	0.1186	1	1	1	1.3615		2025-06-20T03:26:42

WG2081299-1
WG2081299-2

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
L2538382-05M	66	Unknown	?	0.3263	1	1	1	3.7516		2025-06-20T03:27:49
CCV NO3	67	QC	1	0.0870	1	1	1	0.9986		2025-06-20T03:28:55
CCV NO2	68	QC	?	0.0951	1	1	1	1.0910		2025-06-20T03:30:01
CCB	69	QC	0	0.0001	1	1	1	-0.0023		2025-06-20T03:31:19
L2538382-06L	70	Unknown	?	0.3881	1	1	1	4.4629		2025-06-20T03:32:22
WG2081258/262-3	71	Unknown	?	0.3868	1	1	1	4.4477		2025-06-20T03:33:30
WG2081258/262-4	72	Unknown	?	0.7144	1	1	1	8.2165	OVR	2025-06-20T03:34:35
L2538382-07M	73	Unknown	?	0.3374	1	1	1	3.8788		2025-06-20T03:35:41
L2538630-02A	74	Unknown	?	0.0019	1	1	1	0.0188		2025-06-20T03:36:46
L2538790-03A	75	Unknown	?	0.0991	1	1	1	1.1373		2025-06-20T03:37:51
L2538790-04A	76	Unknown	?	0.0041	1	1	1	0.0438		2025-06-20T03:38:56
L2538434-01J	77	Unknown	?	0.0008	1	1	1	0.0062		2025-06-20T03:40:01
WG2081259-3	78	Unknown	?	0.0002	1	1	1	-0.0006		2025-06-20T03:41:09
WG2081259-4	79	Unknown	?	0.3674	1	1	1	4.2239		2025-06-20T03:42:16
CCV NO3	80	QC	1	0.0871	1	1	1	0.9994		2025-06-20T03:43:22
CCV NO2	81	QC	?	0.0956	1	1	1	1.0971		2025-06-20T03:44:28
CCB	82	QC	0	0.0000	1	1	1	-0.0035		2025-06-20T03:45:44
L2538434-02J	83	Unknown	?	0.0010	1	1	1	0.0089		2025-06-20T03:46:49
L2538434-03J	84	Unknown	?	0.0013	1	1	1	0.0126		2025-06-20T03:47:58
L2538434-04J	85	Unknown	?	0.0010	1	1	1	0.0084		2025-06-20T03:49:05
L2538434-05J	86	Unknown	?	0.0029	1	1	1	0.0301		2025-06-20T03:50:11
L2538434-06J	87	Unknown	?	0.0011	1	1	1	0.0094		2025-06-20T03:51:17
L2538434-07J	88	Unknown	?	0.0032	1	1	1	0.0336		2025-06-20T03:52:24
L2538434-08J	89	Unknown	?	0.0018	1	1	1	0.0183		2025-06-20T03:53:30
L2538434-09J	90	Unknown	?	0.0037	1	1	1	0.0397		2025-06-20T03:54:35
L2538434-10J	91	Unknown	?	0.0007	1	1	1	0.0049		2025-06-20T03:55:39
L2538434-11J	92	Unknown	?	0.0031	1	1	1	0.0324		2025-06-20T03:56:46
CCV NO3	93	QC	1	0.0888	1	1	1	1.0188		2025-06-20T03:57:50
CCV NO2	94	QC	?	0.0931	1	1	1	1.0680		2025-06-20T03:58:56
CCB	95	QC	0	0.0000	1	1	1	-0.0034		2025-06-20T03:59:40
L2538434-12J	96	Unknown	?	0.0090	1	1	1	0.1006		2025-06-20T04:01:13
L2538434-13J	97	Unknown	?	0.0616	1	1	1	0.7056		2025-06-20T04:02:18
L2538434-14J	98	Unknown	?	0.0599	1	1	1	0.6862		2025-06-20T04:03:25

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
L2538525-01L	99	Unknown	?	0.0358	1	1	1	0.4088		2025-06-20T04:04:32
WG2081257-5	100	Unknown	?	0.0349	1	1	1	0.3989		2025-06-20T04:05:39
WG2081257-6	101	Unknown	?	0.4060	1	1	1	4.6687		2025-06-20T04:06:46
L2538525-02L	102	Unknown	?	-0.0002	1	1	1	-0.0056		2025-06-20T04:07:26
L2538525-03L	103	Unknown	?	0.4025	1	1	1	4.6283		2025-06-20T04:08:59
L2538525-04L	104	Unknown	?	0.0017	1	1	1	0.0165		2025-06-20T04:10:05
L2538525-05L	105	Unknown	?	0.0071	1	1	1	0.0785		2025-06-20T04:11:11
CCV NO3	106	QC	1	0.0892	1	1	1	1.0236		2025-06-20T04:12:17
CCV NO2	107	QC	?	0.0950	1	1	1	1.0900		2025-06-20T04:13:23
CCB	108	QC	0	0.0000	1	1	1	-0.0032		2025-06-20T04:14:10
L2538525-06L	109	Unknown	?	0.4224	1	1	1	4.8569		2025-06-20T04:15:43
L2538595-01C	110	Unknown	?	1.3468	1	1	1	15.4933	OVR	2025-06-20T04:16:55
L2538821-01B	111	Unknown	?	-0.0017	1	1	1	-0.0229		2025-06-20T04:17:29
WG2081257-3	112	Unknown	?	0.0000	1	1	1	-0.0033		2025-06-20T04:18:34
WG2081254-4	113	Unknown	?	0.3956	1	1	1	4.5484		2025-06-20T04:20:07
WG2081257-4	114	Unknown	?	0.3887	1	1	1	4.4691		2025-06-20T04:21:12
WG2081254-3	115	Unknown	?	-0.0003	1	1	1	-0.0060		2025-06-20T04:21:50
L2538821-02B	116	Unknown	?	0.5822	1	1	1	6.6962		2025-06-20T04:23:23
L2538829-02B	117	Unknown	?	0.4239	1	1	1	4.8739		2025-06-20T04:24:31
L2538832-01B	118	Unknown	?	1.1147	1	1	1	12.8226	OVR	2025-06-20T04:25:39
CCV NO3	119	QC	1	0.0842	1	1	1	0.9654		2025-06-20T04:26:45
CCV NO2	120	QC	?	0.0970	1	1	1	1.1130		2025-06-20T04:27:51
CCB	121	QC	0	0.0000	1	1	1	-0.0028		2025-06-20T04:29:06
L2538832-02B	122	Unknown	?	1.3473	1	1	1	15.4992	OVR	2025-06-20T04:30:12
L2538833-01B	123	Unknown	?	1.2729	1	1	1	14.6437	OVR	2025-06-20T04:31:21
L2538834-01A	124	Unknown	?	0.0059	1	1	1	0.0651		2025-06-20T04:32:27
L2538834-02A	125	Unknown	?	0.0913	1	1	1	1.0473		2025-06-20T04:33:33
L2538840-01B	126	Unknown	?	1.0218	1	1	1	11.7538	OVR	2025-06-20T04:34:40
L2538840-02B	127	Unknown	?	1.0324	1	1	1	11.8759	OVR	2025-06-20T04:35:46
L2538378-01A	128	Unknown	?	-0.0009	1	1	1	-0.0131		2025-06-20T04:36:24
L2538438-01J	129	Unknown	?	0.0017	1	1	1	0.0161		2025-06-20T04:37:57
WG2081253-4	130	Unknown	?	0.3995	1	1	1	4.5937		2025-06-20T04:39:03
WG2081256-4	131	Unknown	?	0.3817	1	1	1	4.3889		2025-06-20T04:40:08

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
CCV NO3	132	QC	1	0.0880	1	1	1	1.0097		2025-06-20T04:41:13
CCV NO2	133	QC	?	0.0956	1	1	1	1.0974		2025-06-20T04:42:20
CCB	134	QC	0	0.0000	1	1	1	-0.0032		2025-06-20T04:43:07
WG2081256-3	135	Unknown	?	0.0012	1	1	1	0.0106		2025-06-20T04:44:41
WG2081253-3	136	Unknown	?	0.0013	1	1	1	0.0116		2025-06-20T04:45:47
L2538529-01H; 5 UP TO 25	137	Unknown	?	1.3458	5	1	1	77.4079	OVR	2025-06-20T04:47:05
WG2081256-6	138	Unknown	?	0.3582	1	1	1	4.1184		2025-06-20T04:48:01
WG2081253-5	139	Unknown	?	0.0005	1	1	1	0.0027		2025-06-20T04:49:07
L2538529-01H; 1 UP TO 50	140	Unknown	?	0.5890	50	1	1	338.7284		2025-06-20T04:50:15
L2538604-01D	141	Unknown	?	0.0013	1	1	1	0.0125		2025-06-20T04:51:22
WG2081256-5	142	Unknown	?	0.0025	1	1	1	0.0255		2025-06-20T04:52:30
WG2081253-6	143	Unknown	?	0.4000	1	1	1	4.5996		2025-06-20T04:53:35
L2538604-02D	144	Unknown	?	0.0000	1	1	1	-0.0024		2025-06-20T04:54:42
CCV NO3	145	QC	1	0.0885	1	1	1	1.0150		2025-06-20T04:55:47
CCV NO2	146	QC	?	0.0971	1	1	1	1.1138		2025-06-20T04:56:54
CCB	147	QC	0	0.0000	1	1	1	-0.0024		2025-06-20T04:58:07
L2538604-03D	148	Unknown	?	0.4841	1	1	1	5.5668		2025-06-20T04:59:13
L2538604-04D	149	Unknown	?	0.0956	1	1	1	1.0965		2025-06-20T05:00:20
L2538604-05D	150	Unknown	?	0.0412	1	1	1	0.4710		2025-06-20T05:01:27
L2538604-06D	151	Unknown	?	0.0562	1	1	1	0.6437		2025-06-20T05:02:33
L2538604-07D	152	Unknown	?	0.0471	1	1	1	0.5390		2025-06-20T05:03:39
L2538604-08D	153	Unknown	?	0.0593	1	1	1	0.6789		2025-06-20T05:04:44
L2538604-09D	154	Unknown	?	0.0570	1	1	1	0.6533		2025-06-20T05:05:50
L2538604-10D	155	Unknown	?	0.0576	1	1	1	0.6601		2025-06-20T05:06:57
L2538604-11D	156	Unknown	?	0.0027	1	1	1	0.0277		2025-06-20T05:08:04
L2538604-12D	157	Unknown	?	0.0008	1	1	1	0.0067		2025-06-20T05:09:11
CCV NO3	158	QC	1	0.0867	1	1	1	0.9950		2025-06-20T05:10:18
CCV NO2	159	QC	?	0.0965	1	1	1	1.1073		2025-06-20T05:11:25
CCB	160	QC	0	-0.0002	1	1	1	-0.0048		2025-06-20T05:12:11
L2538604-13D	161	Unknown	?	0.0434	1	1	1	0.4961		2025-06-20T05:13:44
L2538604-14D	162	Unknown	?	0.0486	1	1	1	0.5564		2025-06-20T05:14:51
L2538604-15D	163	Unknown	?	0.0425	1	1	1	0.4865		2025-06-20T05:15:58
L2538604-16D	164	Unknown	?	0.0395	1	1	1	0.4511		2025-06-20T05:17:05

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
L2538604-17D	165	Unknown	?	0.0355	1	1	1	0.4058		2025-06-20T05:18:10
L2538314-01V	166	Unknown	?	0.0000	1	1	1	-0.0031		2025-06-20T05:18:50
WG2081260/261-3	167	Unknown	?	0.0000	1	1	1	-0.0028		2025-06-20T05:19:57
WG2081260/261-4	168	Unknown	?	0.3773	1	1	1	4.3382		2025-06-20T05:21:29
L2538466-01A	169	Unknown	?	0.0162	1	1	1	0.1834		2025-06-20T05:22:36
L2538466-02A	170	Unknown	?	0.0026	1	1	1	0.0271		2025-06-20T05:23:41
CCV NO3	171	QC	1	0.0874	1	1	1	1.0029		2025-06-20T05:24:47
CCV NO2	172	QC	?	0.0961	1	1	1	1.1032		2025-06-20T05:25:53
CCB	173	QC	0	0.0000	1	1	1	-0.0026		2025-06-20T05:27:08
L2538678-01B	174	Unknown	?	0.0962	1	1	1	1.1042		2025-06-20T05:28:15
L2538678-02B	175	Unknown	?	0.0733	1	1	1	0.8410		2025-06-20T05:29:21
L2538382-07M	176	Unknown	?	0.3373	1	1	1	3.8779		2025-06-20T05:30:27
L2538821-01B	177	Unknown	?	-0.0002	1	1	1	-0.0056		2025-06-20T05:31:04
L2538834-01A	178	Unknown	?	0.0117	1	1	1	0.1316		2025-06-20T05:32:38
L2538378-01A	179	Unknown	?	0.0034	1	1	1	0.0362		2025-06-20T05:33:43
WG2081256-6	180	Unknown	?	0.3567	1	1	1	4.1017		2025-06-20T05:34:50
WG2081258/262-4; 5 UP TO 25	181	Unknown	?	0.1443	5	1	1	8.2880		2025-06-20T05:35:58
L2538595-01C; 5 UP TO 25	182	Unknown	?	0.4249	5	1	1	24.4290		2025-06-20T05:37:05
L2538832-01B; 5 UP TO 25	183	Unknown	?	0.2566	5	1	1	14.7499		2025-06-20T05:38:12
CCV NO3	184	QC	1	0.0845	1	1	1	0.9689		2025-06-20T05:39:18
CCV NO2	185	QC	?	0.0965	1	1	1	1.1077		2025-06-20T05:40:24
CCB	186	QC	0	0.0000	1	1	1	-0.0026		2025-06-20T05:41:37
L2538832-02B; 5 UP TO 25	187	Unknown	?	0.3830	5	1	1	22.0188		2025-06-20T05:42:45
L2538833-01B; 5 UP TO 25	188	Unknown	?	0.3037	5	1	1	17.4575		2025-06-20T05:43:54
L2538840-01B; 5 UP TO 25	189	Unknown	?	0.2208	5	1	1	12.6878		2025-06-20T05:45:01
L2538840-02B; 5 UP TO 25	190	Unknown	?	0.2279	5	1	1	13.0987		2025-06-20T05:46:08
L2538599-01L	191	Unknown	?	0.4540	1	1	1	5.2204		2025-06-20T05:47:14
L2538599-02L	192	Unknown	?	0.0292	1	1	1	0.3327		2025-06-20T05:48:20
L2538767-01J	193	Unknown	?	0.0928	1	1	1	1.0650		2025-06-20T05:49:27
L2538767-02K	194	Unknown	?	0.0059	1	1	1	0.0651		2025-06-20T05:50:33
L2538767-03K	195	Unknown	?	0.0022	1	1	1	0.0221		2025-06-20T05:51:39
L2538767-04K	196	Unknown	?	0.0046	1	1	1	0.0495		2025-06-20T05:52:46
CCV NO3	197	QC	1	0.0856	1	1	1	0.9823		2025-06-20T05:53:51

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
CCV NO2	198	QC	?	0.0940	1	1	1	1.0790		2025-06-20T05:54:58
CCB	199	QC	0	0.0000	1	1	1	-0.0027		2025-06-20T05:56:09
L2538767-05K	200	Unknown	?	0.0046	1	1	1	0.0501		2025-06-20T05:57:19
L2538788-01G	201	Unknown	?	0.0036	1	1	1	0.0385		2025-06-20T05:58:28
WG2081299-3	202	Unknown	?	0.0033	1	1	1	0.0345		2025-06-20T05:59:35
WG2081299-4	203	Unknown	?	0.3281	1	1	1	3.7728		2025-06-20T06:00:42
L2538788-02G	204	Unknown	?	0.0001	1	1	1	-0.0022		2025-06-20T06:01:48
L2538788-03G	205	Unknown	?	0.0011	1	1	1	0.0097		2025-06-20T06:02:56
L2538788-04G	206	Unknown	?	0.0048	1	1	1	0.0519		2025-06-20T06:04:03
L2538788-05G	207	Unknown	?	0.0304	1	1	1	0.3463		2025-06-20T06:05:10
L2538788-06G	208	Unknown	?	0.0007	1	1	1	0.0050		2025-06-20T06:06:17
L2538788-07G	209	Unknown	?	0.1296	1	1	1	1.4884		2025-06-20T06:07:23
CCV NO3	210	QC	1	0.0853	1	1	1	0.9786		2025-06-20T06:08:29
CCV NO2	211	QC	?	0.0949	1	1	1	1.0890		2025-06-20T06:09:35
CCB	212	QC	0	0.0000	1	1	1	-0.0035		2025-06-20T06:10:50
L2538788-08G	213	Unknown	?	0.0123	1	1	1	0.1389		2025-06-20T06:11:56
L2538788-09G	214	Unknown	?	0.2768	1	1	1	3.1821		2025-06-20T06:13:05
L2538788-10G	215	Unknown	?	0.1022	1	1	1	1.1731		2025-06-20T06:14:12
L2538853-01K	216	Unknown	?	0.0058	1	1	1	0.0641		2025-06-20T06:15:19
L2538853-02K	217	Unknown	?	0.0077	1	1	1	0.0862		2025-06-20T06:16:27
WG2081302-1	218	Unknown	?	0.0000	1	1	1	-0.0032		2025-06-20T06:17:05
WG2081302-2	219	Unknown	?	0.4350	1	1	1	5.0027		2025-06-20T06:18:38
L2538855-04K	220	Unknown	?	0.0055	1	1	1	0.0607		2025-06-20T06:19:46
WG2081302-3	221	Unknown	?	0.0062	1	1	1	0.0681		2025-06-20T06:20:53
WG2081302-4	222	Unknown	?	0.3620	1	1	1	4.1619		2025-06-20T06:22:00
CCV NO3	223	QC	1	0.0831	1	1	1	0.9536		2025-06-20T06:23:06
CCV NO2	224	QC	?	0.0959	1	1	1	1.1009		2025-06-20T06:24:12
CCB	225	QC	0	-0.0001	1	1	1	-0.0039		2025-06-20T06:25:01
L2538855-05K	226	Unknown	?	0.2495	1	1	1	2.8680		2025-06-20T06:26:34
L2538855-06K	227	Unknown	?	0.0293	1	1	1	0.3345		2025-06-20T06:27:43
L2538855-07K	228	Unknown	?	0.0363	1	1	1	0.4151		2025-06-20T06:28:50
L2538855-08K	229	Unknown	?	0.0823	1	1	1	0.9443		2025-06-20T06:29:57
L2538855-09K	230	Unknown	?	0.0070	1	1	1	0.0780		2025-06-20T06:31:04

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
L2538855-11K	231	Unknown	?	0.0055	1	1	1	0.0608		2025-06-20T06:32:11
L2538855-12K	232	Unknown	?	0.0010	1	1	1	0.0090		2025-06-20T06:33:17
L2538855-13K	233	Unknown	?	0.0056	1	1	1	0.0612		2025-06-20T06:34:25
L2538855-14K	234	Unknown	?	0.1301	1	1	1	1.4940		2025-06-20T06:35:31
L2538855-15K	235	Unknown	?	0.0005	1	1	1	0.0030		2025-06-20T06:36:38
CCV NO3	236	QC	1	0.0842	1	1	1	0.9656		2025-06-20T06:37:44
CCV NO2	237	QC	?	0.0956	1	1	1	1.0971		2025-06-20T06:38:50
CCB	238	QC	0	-0.0001	1	1	1	-0.0040		2025-06-20T06:39:39
L2538855-16N	239	Unknown	?	0.0007	1	1	1	0.0046		2025-06-20T06:41:11
CCV NO3	240	QC	1	0.0850	1	1	1	0.9754		2025-06-20T06:42:20
CCV NO2	241	QC	?	0.0952	1	1	1	1.0927		2025-06-20T06:43:27
CCB	242	QC	0	-0.0002	1	1	1	-0.0052		2025-06-20T06:44:11

Channel: 2-NO2

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
Stabil	1	Unknown	?	0.0006	1	1	1	-0.0051		2025-06-20T02:14:15
NOx 8.0ppm	2	Standard	?	0.0002	1	1	1	-0.0086		2025-06-20T02:15:58
NOx 4.0ppm	3	Standard	?	0.0002	1	1	1	-0.0086		2025-06-20T02:16:59
NOx 1.0ppm	4	Standard	?	0.0001	1	1	1	-0.0098		2025-06-20T02:17:56
NOx 0.4ppm	5	Standard	?	0.0001	1	1	1	-0.0095		2025-06-20T02:18:58
NOx 0.2ppm	6	Standard	?	0.0001	1	1	1	-0.0095		2025-06-20T02:20:25
NOx 0.1ppm	7	Standard	?	0.0001	1	1	1	-0.0096		2025-06-20T02:21:32
NOx 0.0ppm	8	Standard	?	0.0000	1	1	1	-0.0098		2025-06-20T02:22:30
Nitrite 8.0ppm	9	Standard	8	0.8154	1	1	1	7.3536		2025-06-20T02:23:43
Nitrite 4.0ppm	10	Standard	4	0.4400	1	1	1	3.9638		2025-06-20T02:24:53
Nitrite 1.0ppm	11	Standard	1	0.1153	1	1	1	1.0311		2025-06-20T02:26:00
Nitrite 0.4ppm	12	Standard	0.4	0.0485	1	1	1	0.4274		2025-06-20T02:27:10
Nitrite 0.1ppm	13	Standard	0.1	0.0130	1	1	1	0.1073		2025-06-20T02:28:20
Nitrite 0.05ppm	14	Standard	0.05	0.0064	1	1	1	0.0477		2025-06-20T02:29:31
Nitrite 0.0ppm	15	Standard	0	0.0004	1	1	1	-0.0066		2025-06-20T02:30:52
CCV NO3	16	QC	?	0.0003	1	1	1	-0.0074		2025-06-20T02:31:58
CCV NO2	17	QC	1	0.1116	1	1	1	0.9974		2025-06-20T02:32:53
CCB	18	QC	0	0.0021	1	1	1	0.0085		2025-06-20T02:34:12
ICV NO3 5.0	19	QC	?	0.0008	1	1	1	-0.0030		2025-06-

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
										20T02:35:24
ICV NO2 5.0	20	QC	5	0.5385	1	1	1	4.8527		2025-06-20T02:36:22
ICV NO3 0.5	21	QC	?	0.0054	1	1	1	0.0387		2025-06-20T02:37:35
ICV NO2 0.5	22	QC	0.5	0.0533	1	1	1	0.4712		2025-06-20T02:38:39
ICB	23	QC	0	0.0009	1	1	1	-0.0018		2025-06-20T02:39:54
BLANK NO3	24	Unknown	?	0.0003	1	1	1	-0.0078		2025-06-20T02:41:04
LCS NO3	25	Unknown	?	0.0003	1	1	1	-0.0074		2025-06-20T02:42:11
BLANK NO2	26	Unknown	?	0.0001	1	1	1	-0.0093		2025-06-20T02:43:20
LCS NO2	27	Unknown	?	0.5412	1	1	1	4.8772		2025-06-20T02:44:15
CCV NO3	28	QC	?	0.0075	1	1	1	0.0572		2025-06-20T02:45:30
CCV NO2	29	QC	1	0.1126	1	1	1	1.0068		2025-06-20T02:46:27
CCB	30	QC	0	0.0024	1	1	1	0.0115		2025-06-20T02:47:47
WG2081253-1	31	Unknown	?	0.0004	1	1	1	-0.0062		2025-06-20T02:48:58
WG2081253-2	32	Unknown	?	0.5441	1	1	1	4.9033		2025-06-20T02:49:53
WG2081254-1	33	Unknown	?	0.0058	1	1	1	0.0420		2025-06-20T02:51:05
WG2081254-2	34	Unknown	?	0.5434	1	1	1	4.8975		2025-06-20T02:52:05
WG2081255-1	35	Unknown	?	0.0067	1	1	1	0.0501		2025-06-20T02:53:15
WG2081255-2	36	Unknown	?	0.5427	1	1	1	4.8907		2025-06-20T02:54:18
WG2081256-1	37	Unknown	?	0.0059	1	1	1	0.0427		2025-06-20T02:55:31
WG2081255-1	38	Unknown	?	0.0009	1	1	1	-0.0021		2025-06-20T02:56:43
WG2081256-2	39	Unknown	?	0.0008	1	1	1	-0.0030		2025-06-20T02:57:52
WG2081257-1	40	Unknown	?	0.0002	1	1	1	-0.0085		2025-06-20T02:58:55
CCV NO3	41	QC	?	0.0001	1	1	1	-0.0089		2025-06-20T03:00:00
CCV NO2	42	QC	1	0.1115	1	1	1	0.9971		2025-06-20T03:00:58
CCB	43	QC	0	0.0046	1	1	1	0.0315		2025-06-20T03:02:20
WG2081257-2	44	Unknown	?	0.0006	1	1	1	-0.0049		2025-06-20T03:03:31
WG2081258/262-1	45	Unknown	?	0.0001	1	1	1	-0.0094		2025-06-20T03:04:31
WG2081258/262-2	46	Unknown	?	0.0001	1	1	1	-0.0095		2025-06-20T03:05:42
WG2081259-1	47	Unknown	?	0.0000	1	1	1	-0.0099		2025-06-20T03:06:54
WG2081259-2	48	Unknown	?	0.0001	1	1	1	-0.0090		2025-06-20T03:07:54
WG2081260/261-1	49	Unknown	?	0.0001	1	1	1	-0.0097		2025-06-20T03:09:00
WG2081260/261-2	50	Unknown	?	0.0001	1	1	1	-0.0091		2025-06-20T03:09:54
L2538198-01A	51	Unknown	?	0.0007	1	1	1	-0.0040		2025-06-20T03:11:00

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
L2538198-02A	52	Unknown	?	0.1085	1	1	1	0.9692		2025-06-20T03:12:05
WG2081255-3	53	Unknown	?	0.0000	1	1	1	-0.0098		2025-06-20T03:13:11
CCV NO3	54	QC	?	0.0001	1	1	1	-0.0094		2025-06-20T03:14:18
CCV NO2	55	QC	1	0.1142	1	1	1	1.0214		2025-06-20T03:15:24
CCB	56	QC	0	0.0013	1	1	1	0.0014		2025-06-20T03:16:40
WG2081255-4	57	Unknown	?	0.4618	1	1	1	4.1605		2025-06-20T03:17:40
L2538198-02A; 5 UP TO 25	58	Unknown	?	0.0232	5	1	1	0.9953		2025-06-20T03:18:45
L2538199-01A	59	Unknown	?	0.0007	1	1	1	-0.0038		2025-06-20T03:19:49
L2538199-02A	60	Unknown	?	0.0316	1	1	1	0.2750		2025-06-20T03:20:56
L2538198-02A; 5 UP TO 25	61	Unknown	?	0.0217	5	1	1	0.9278		2025-06-20T03:22:01
L2538382-01M	62	Unknown	?	0.0006	1	1	1	-0.0050		2025-06-20T03:23:08
L2538382-02M	63	Unknown	?	0.0006	1	1	1	-0.0047		2025-06-20T03:24:16
L2538382-03M	64	Unknown	?	0.0005	1	1	1	-0.0053		2025-06-20T03:25:23
L2538382-04M	65	Unknown	?	0.0007	1	1	1	-0.0043		2025-06-20T03:26:29
L2538382-05M	66	Unknown	?	0.0006	1	1	1	-0.0052		2025-06-20T03:27:37
CCV NO3	67	QC	?	0.0001	1	1	1	-0.0091		2025-06-20T03:28:52
CCV NO2	68	QC	1	0.1124	1	1	1	1.0044		2025-06-20T03:29:48
CCB	69	QC	0	0.0019	1	1	1	0.0070		2025-06-20T03:31:07
L2538382-06L	70	Unknown	?	0.0006	1	1	1	-0.0052		2025-06-20T03:32:09
WG2081258/262-3	71	Unknown	?	0.0001	1	1	1	-0.0092		2025-06-20T03:33:16
WG2081258/262-4	72	Unknown	?	0.0001	1	1	1	-0.0095		2025-06-20T03:34:26
L2538382-07M	73	Unknown	?	0.0006	1	1	1	-0.0047		2025-06-20T03:35:27
L2538630-02A	74	Unknown	?	0.0023	1	1	1	0.0107		2025-06-20T03:36:33
L2538790-03A	75	Unknown	?	0.0078	1	1	1	0.0599		2025-06-20T03:37:37
L2538790-04A	76	Unknown	?	0.0026	1	1	1	0.0132		2025-06-20T03:38:42
L2538434-01J	77	Unknown	?	0.0006	1	1	1	-0.0050		2025-06-20T03:39:50
WG2081259-3	78	Unknown	?	0.0001	1	1	1	-0.0090		2025-06-20T03:40:57
WG2081259-4	79	Unknown	?	0.0004	1	1	1	-0.0071		2025-06-20T03:42:02
CCV NO3	80	QC	?	0.0003	1	1	1	-0.0079		2025-06-20T03:43:18
CCV NO2	81	QC	1	0.1130	1	1	1	1.0107		2025-06-20T03:44:16
CCB	82	QC	0	0.0007	1	1	1	-0.0044		2025-06-20T03:45:31
L2538434-02J	83	Unknown	?	0.0007	1	1	1	-0.0044		2025-06-20T03:46:38
L2538434-03J	84	Unknown	?	0.0006	1	1	1	-0.0046		2025-06-20T03:47:45

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
L2538434-04J	85	Unknown	?	0.0007	1	1	1	-0.0037		2025-06-20T03:48:54
L2538434-05J	86	Unknown	?	0.0019	1	1	1	0.0072		2025-06-20T03:49:59
L2538434-06J	87	Unknown	?	0.0006	1	1	1	-0.0046		2025-06-20T03:51:04
L2538434-07J	88	Unknown	?	0.0009	1	1	1	-0.0022		2025-06-20T03:52:11
L2538434-08J	89	Unknown	?	0.0006	1	1	1	-0.0049		2025-06-20T03:53:16
L2538434-09J	90	Unknown	?	0.0023	1	1	1	0.0108		2025-06-20T03:54:22
L2538434-10J	91	Unknown	?	0.0005	1	1	1	-0.0057		2025-06-20T03:55:26
L2538434-11J	92	Unknown	?	0.0018	1	1	1	0.0064		2025-06-20T03:56:31
CCV NO3	93	QC	?	0.0001	1	1	1	-0.0094		2025-06-20T03:57:37
CCV NO2	94	QC	1	0.1123	1	1	1	1.0039		2025-06-20T03:58:43
CCB	95	QC	0	0.0000	1	1	1	-0.0104		2025-06-20T03:59:52
L2538434-12J	96	Unknown	?	0.0042	1	1	1	0.0273		2025-06-20T04:01:00
L2538434-13J	97	Unknown	?	0.0027	1	1	1	0.0143		2025-06-20T04:02:04
L2538434-14J	98	Unknown	?	0.0029	1	1	1	0.0164		2025-06-20T04:03:12
L2538525-01L	99	Unknown	?	0.0011	1	1	1	-0.0005		2025-06-20T04:04:20
WG2081257-5	100	Unknown	?	0.0006	1	1	1	-0.0047		2025-06-20T04:05:26
WG2081257-6	101	Unknown	?	0.0006	1	1	1	-0.0048		2025-06-20T04:06:32
L2538525-02L	102	Unknown	?	0.0006	1	1	1	-0.0050		2025-06-20T04:07:40
L2538525-03L	103	Unknown	?	0.0005	1	1	1	-0.0054		2025-06-20T04:08:45
L2538525-04L	104	Unknown	?	0.0014	1	1	1	0.0026		2025-06-20T04:09:52
L2538525-05L	105	Unknown	?	0.0020	1	1	1	0.0081		2025-06-20T04:10:59
CCV NO3	106	QC	?	0.0001	1	1	1	-0.0093		2025-06-20T04:12:08
CCV NO2	107	QC	1	0.1127	1	1	1	1.0078		2025-06-20T04:13:10
CCB	108	QC	0	0.0000	1	1	1	-0.0098		2025-06-20T04:14:25
L2538525-06L	109	Unknown	?	0.0006	1	1	1	-0.0045		2025-06-20T04:15:29
L2538595-01C	110	Unknown	?	0.0155	1	1	1	0.1297		2025-06-20T04:16:38
L2538821-01B	111	Unknown	?	0.0007	1	1	1	-0.0037		2025-06-20T04:17:43
WG2081257-3	112	Unknown	?	0.0002	1	1	1	-0.0081		2025-06-20T04:18:49
WG2081254-4	113	Unknown	?	0.4598	1	1	1	4.1422		2025-06-20T04:19:53
WG2081257-4	114	Unknown	?	0.0001	1	1	1	-0.0096		2025-06-20T04:20:58
WG2081254-3	115	Unknown	?	0.0007	1	1	1	-0.0042		2025-06-20T04:22:04
L2538821-02B	116	Unknown	?	0.0570	1	1	1	0.5047		2025-06-20T04:23:11
L2538829-02B	117	Unknown	?	0.0045	1	1	1	0.0308		2025-06-20T04:24:19

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
L2538832-01B	118	Unknown	?	0.0353	1	1	1	0.3087		2025-06-20T04:25:26
CCV NO3	119	QC	?	0.0001	1	1	1	-0.0098		2025-06-20T04:26:36
CCV NO2	120	QC	1	0.1130	1	1	1	1.0103		2025-06-20T04:27:38
CCB	121	QC	0	0.0005	1	1	1	-0.0060		2025-06-20T04:28:53
L2538832-02B	122	Unknown	?	0.0123	1	1	1	0.1011		2025-06-20T04:30:00
L2538833-01B	123	Unknown	?	0.0106	1	1	1	0.0858		2025-06-20T04:31:08
L2538834-01A	124	Unknown	?	0.0089	1	1	1	0.0703		2025-06-20T04:32:14
L2538834-02A	125	Unknown	?	0.0009	1	1	1	-0.0026		2025-06-20T04:33:20
L2538840-01B	126	Unknown	?	0.0139	1	1	1	0.1152		2025-06-20T04:34:27
L2538840-02B	127	Unknown	?	0.0059	1	1	1	0.0432		2025-06-20T04:35:33
L2538378-01A	128	Unknown	?	0.0018	1	1	1	0.0061		2025-06-20T04:36:39
L2538438-01J	129	Unknown	?	0.0007	1	1	1	-0.0037		2025-06-20T04:37:45
WG2081253-4	130	Unknown	?	0.4427	1	1	1	3.9882		2025-06-20T04:38:49
WG2081256-4	131	Unknown	?	0.0001	1	1	1	-0.0093		2025-06-20T04:39:55
CCV NO3	132	QC	?	0.0000	1	1	1	-0.0099		2025-06-20T04:41:02
CCV NO2	133	QC	1	0.1121	1	1	1	1.0024		2025-06-20T04:42:07
CCB	134	QC	0	0.0001	1	1	1	-0.0095		2025-06-20T04:43:21
WG2081256-3	135	Unknown	?	0.0003	1	1	1	-0.0073		2025-06-20T04:44:26
WG2081253-3	136	Unknown	?	0.0003	1	1	1	-0.0072		2025-06-20T04:45:35
L2538529-01H; 5 UP TO 25	137	Unknown	?	0.0074	5	1	1	0.2809		2025-06-20T04:46:43
WG2081256-6	138	Unknown	?	0.0003	1	1	1	-0.0077		2025-06-20T04:47:48
WG2081253-5	139	Unknown	?	0.0003	1	1	1	-0.0072		2025-06-20T04:48:53
L2538529-01H; 1 UP TO 50	140	Unknown	?	0.0008	50	1	1	-0.1687		2025-06-20T04:50:03
L2538604-01D	141	Unknown	?	0.0009	1	1	1	-0.0025		2025-06-20T04:51:09
WG2081256-5	142	Unknown	?	0.0003	1	1	1	-0.0075		2025-06-20T04:52:16
WG2081253-6	143	Unknown	?	0.4621	1	1	1	4.1628		2025-06-20T04:53:22
L2538604-02D	144	Unknown	?	0.0004	1	1	1	-0.0066		2025-06-20T04:54:28
CCV NO3	145	QC	?	0.0000	1	1	1	-0.0099		2025-06-20T04:55:34
CCV NO2	146	QC	1	0.1138	1	1	1	1.0179		2025-06-20T04:56:41
CCB	147	QC	0	0.0009	1	1	1	-0.0020		2025-06-20T04:57:54
L2538604-03D	148	Unknown	?	0.0015	1	1	1	0.0037		2025-06-20T04:58:59
L2538604-04D	149	Unknown	?	0.0016	1	1	1	0.0042		2025-06-20T05:00:07
L2538604-05D	150	Unknown	?	0.0035	1	1	1	0.0215		2025-06-20T05:01:13

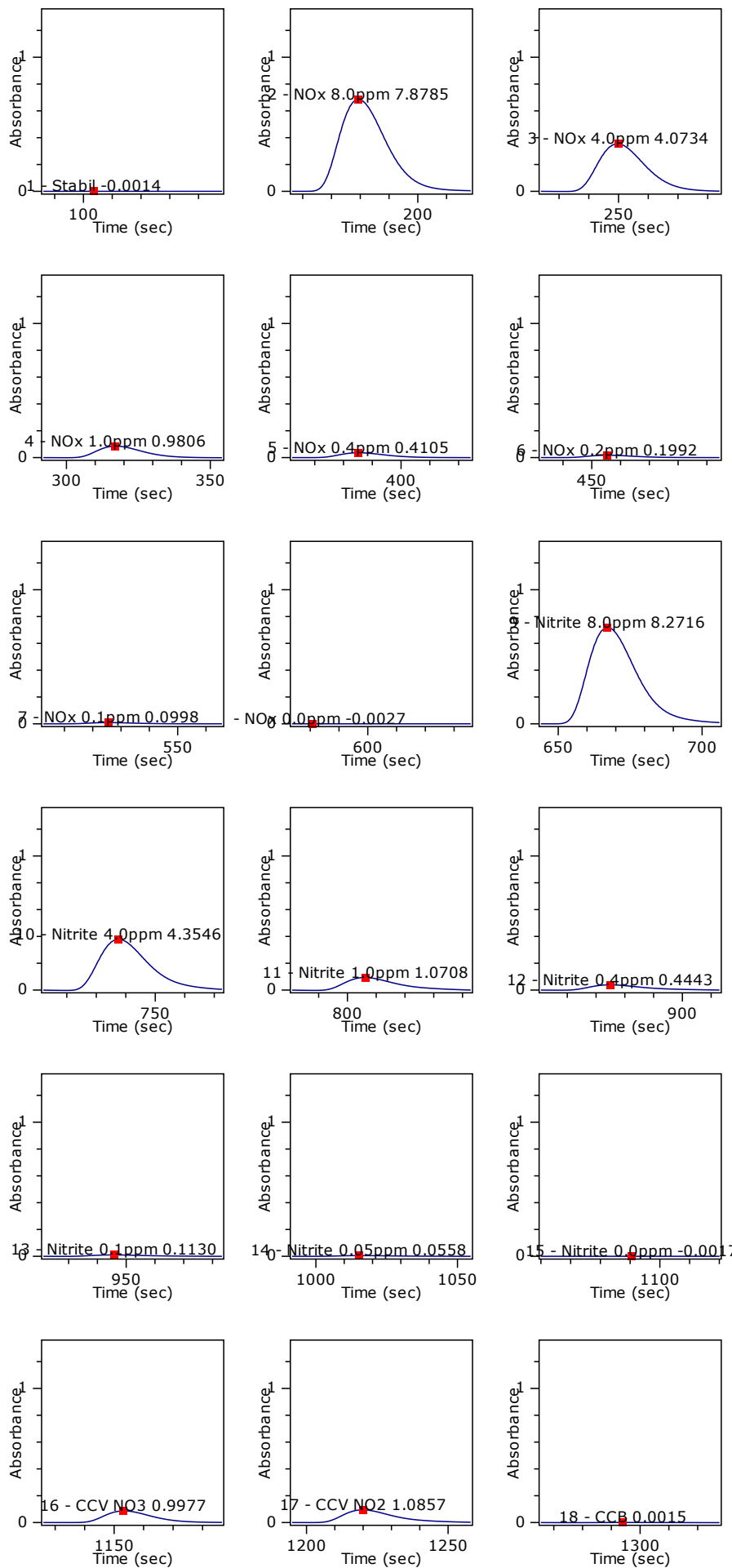
Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
L2538604-06D	151	Unknown	?	0.0032	1	1	1	0.0182		2025-06-20T05:02:19
L2538604-07D	152	Unknown	?	0.0032	1	1	1	0.0186		2025-06-20T05:03:26
L2538604-08D	153	Unknown	?	0.0038	1	1	1	0.0242		2025-06-20T05:04:32
L2538604-09D	154	Unknown	?	0.0042	1	1	1	0.0273		2025-06-20T05:05:37
L2538604-10D	155	Unknown	?	0.0047	1	1	1	0.0326		2025-06-20T05:06:45
L2538604-11D	156	Unknown	?	0.0008	1	1	1	-0.0030		2025-06-20T05:07:51
L2538604-12D	157	Unknown	?	0.0005	1	1	1	-0.0053		2025-06-20T05:08:59
CCV NO3	158	QC	?	0.0001	1	1	1	-0.0095		2025-06-20T05:10:09
CCV NO2	159	QC	1	0.1132	1	1	1	1.0122		2025-06-20T05:11:12
CCB	160	QC	0	0.0015	1	1	1	0.0035		2025-06-20T05:12:30
L2538604-13D	161	Unknown	?	0.0046	1	1	1	0.0314		2025-06-20T05:13:31
L2538604-14D	162	Unknown	?	0.0047	1	1	1	0.0325		2025-06-20T05:14:38
L2538604-15D	163	Unknown	?	0.0050	1	1	1	0.0345		2025-06-20T05:15:45
L2538604-16D	164	Unknown	?	0.0050	1	1	1	0.0348		2025-06-20T05:16:51
L2538604-17D	165	Unknown	?	0.0048	1	1	1	0.0332		2025-06-20T05:17:57
L2538314-01V	166	Unknown	?	0.0001	1	1	1	-0.0095		2025-06-20T05:19:02
WG2081260/261-3	167	Unknown	?	0.0000	1	1	1	-0.0099		2025-06-20T05:20:20
WG2081260/261-4	168	Unknown	?	0.0001	1	1	1	-0.0096		2025-06-20T05:21:29
L2538466-01A	169	Unknown	?	0.0007	1	1	1	-0.0036		2025-06-20T05:22:22
L2538466-02A	170	Unknown	?	0.0014	1	1	1	0.0026		2025-06-20T05:23:29
CCV NO3	171	QC	?	0.0001	1	1	1	-0.0091		2025-06-20T05:24:42
CCV NO2	172	QC	1	0.1120	1	1	1	1.0009		2025-06-20T05:25:40
CCB	173	QC	0	0.0003	1	1	1	-0.0076		2025-06-20T05:26:56
L2538678-01B	174	Unknown	?	0.0020	1	1	1	0.0077		2025-06-20T05:28:02
L2538678-02B	175	Unknown	?	0.0019	1	1	1	0.0069		2025-06-20T05:29:09
L2538382-07M	176	Unknown	?	0.0006	1	1	1	-0.0046		2025-06-20T05:30:15
L2538821-01B	177	Unknown	?	0.0007	1	1	1	-0.0036		2025-06-20T05:31:17
L2538834-01A	178	Unknown	?	0.0089	1	1	1	0.0700		2025-06-20T05:32:25
L2538378-01A	179	Unknown	?	0.0020	1	1	1	0.0082		2025-06-20T05:33:31
WG2081256-6	180	Unknown	?	0.0003	1	1	1	-0.0072		2025-06-20T05:34:38
WG2081258/262-4; 5 UP TO 25	181	Unknown	?	0.0001	5	1	1	-0.0477		2025-06-20T05:35:49
L2538595-01C; 5 UP TO 25	182	Unknown	?	0.0029	5	1	1	0.0781		2025-06-20T05:36:52
L2538832-01B; 5 UP TO 25	183	Unknown	?	0.0074	5	1	1	0.2821		2025-06-20T05:37:59

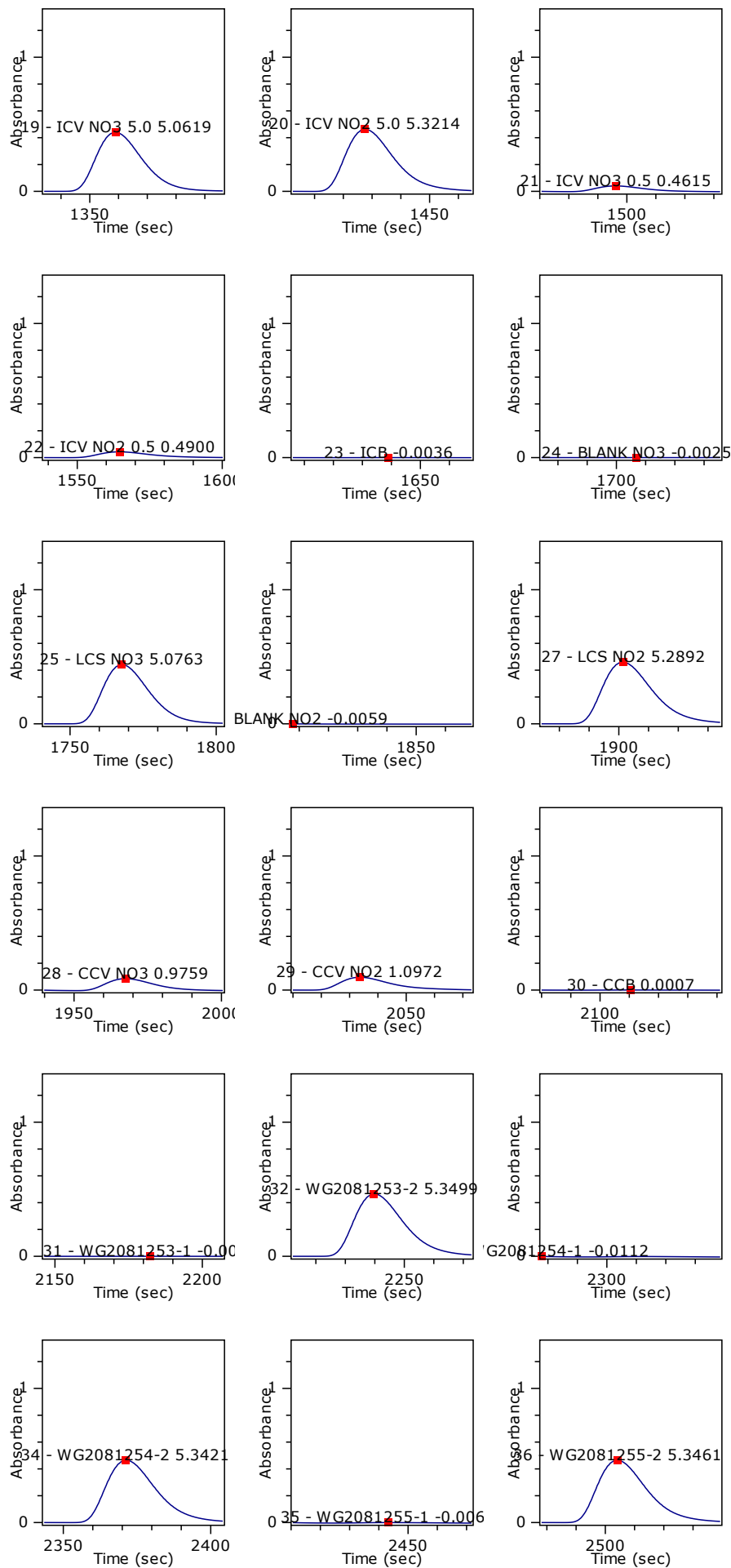
Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
CCV NO3	184	QC	?	0.0001	1	1	1	-0.0094		2025-06-20T05:39:11
CCV NO2	185	QC	1	0.1124	1	1	1	1.0046		2025-06-20T05:40:11
CCB	186	QC	0	0.0011	1	1	1	-0.0006		2025-06-20T05:41:27
L2538832-02B; 5 UP TO 25	187	Unknown	?	0.0023	5	1	1	0.0544		2025-06-20T05:42:33
L2538833-01B; 5 UP TO 25	188	Unknown	?	0.0019	5	1	1	0.0348		2025-06-20T05:43:42
L2538840-01B; 5 UP TO 25	189	Unknown	?	0.0027	5	1	1	0.0689		2025-06-20T05:44:47
L2538840-02B; 5 UP TO 25	190	Unknown	?	0.0012	5	1	1	0.0051		2025-06-20T05:45:54
L2538599-01L	191	Unknown	?	0.0092	1	1	1	0.0727		2025-06-20T05:47:01
L2538599-02L	192	Unknown	?	0.0067	1	1	1	0.0504		2025-06-20T05:48:06
L2538767-01J	193	Unknown	?	0.0006	1	1	1	-0.0046		2025-06-20T05:49:14
L2538767-02K	194	Unknown	?	0.0007	1	1	1	-0.0039		2025-06-20T05:50:19
L2538767-03K	195	Unknown	?	0.0005	1	1	1	-0.0057		2025-06-20T05:51:27
L2538767-04K	196	Unknown	?	0.0020	1	1	1	0.0078		2025-06-20T05:52:33
CCV NO3	197	QC	?	0.0001	1	1	1	-0.0094		2025-06-20T05:53:41
CCV NO2	198	QC	1	0.1112	1	1	1	0.9944		2025-06-20T05:54:44
CCB	199	QC	0	0.0003	1	1	1	-0.0077		2025-06-20T05:56:00
L2538767-05K	200	Unknown	?	0.0025	1	1	1	0.0123		2025-06-20T05:57:06
L2538788-01G	201	Unknown	?	0.0007	1	1	1	-0.0040		2025-06-20T05:58:14
WG2081299-3	202	Unknown	?	0.0003	1	1	1	-0.0072		2025-06-20T05:59:22
WG2081299-4	203	Unknown	?	0.0004	1	1	1	-0.0071		2025-06-20T06:00:29
L2538788-02G	204	Unknown	?	0.0007	1	1	1	-0.0041		2025-06-20T06:01:37
L2538788-03G	205	Unknown	?	0.0006	1	1	1	-0.0048		2025-06-20T06:02:44
L2538788-04G	206	Unknown	?	0.0009	1	1	1	-0.0020		2025-06-20T06:03:51
L2538788-05G	207	Unknown	?	0.0043	1	1	1	0.0290		2025-06-20T06:04:57
L2538788-06G	208	Unknown	?	0.0005	1	1	1	-0.0056		2025-06-20T06:06:06
L2538788-07G	209	Unknown	?	0.0007	1	1	1	-0.0040		2025-06-20T06:07:10
CCV NO3	210	QC	?	0.0001	1	1	1	-0.0094		2025-06-20T06:08:18
CCV NO2	211	QC	1	0.1108	1	1	1	0.9905		2025-06-20T06:09:22
CCB	212	QC	0	0.0009	1	1	1	-0.0021		2025-06-20T06:10:39
L2538788-08G	213	Unknown	?	0.0008	1	1	1	-0.0032		2025-06-20T06:11:43
L2538788-09G	214	Unknown	?	0.0007	1	1	1	-0.0043		2025-06-20T06:12:52
L2538788-10G	215	Unknown	?	0.0006	1	1	1	-0.0052		2025-06-20T06:13:59
L2538853-01K	216	Unknown	?	0.0006	1	1	1	-0.0051		2025-06-20T06:15:09

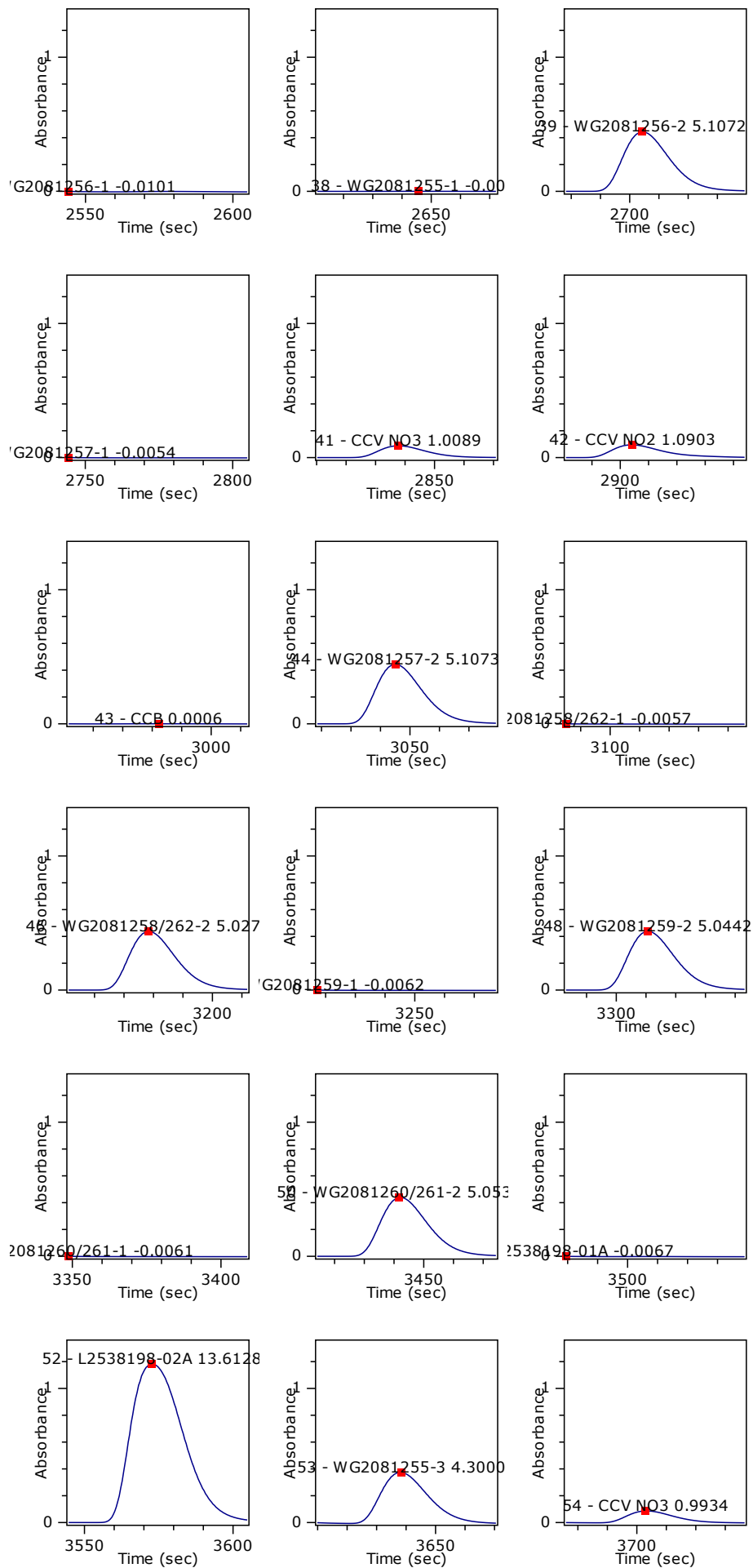
Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
L2538853-02K	217	Unknown	?	0.0018	1	1	1	0.0058		2025-06-20T06:16:12
WG2081302-1	218	Unknown	?	0.0001	1	1	1	-0.0095		2025-06-20T06:17:46
WG2081302-2	219	Unknown	?	0.0000	1	1	1	-0.0100		2025-06-20T06:18:27
L2538855-04K	220	Unknown	?	0.0005	1	1	1	-0.0055		2025-06-20T06:19:33
WG2081302-3	221	Unknown	?	0.0001	1	1	1	-0.0093		2025-06-20T06:20:40
WG2081302-4	222	Unknown	?	0.0001	1	1	1	-0.0096		2025-06-20T06:21:57
CCV NO3	223	QC	?	0.0001	1	1	1	-0.0092		2025-06-20T06:22:52
CCV NO2	224	QC	1	0.1112	1	1	1	0.9942		2025-06-20T06:24:00
CCB	225	QC	0	0.0016	1	1	1	0.0041		2025-06-20T06:25:15
L2538855-05K	226	Unknown	?	0.0009	1	1	1	-0.0022		2025-06-20T06:26:22
L2538855-06K	227	Unknown	?	0.0007	1	1	1	-0.0043		2025-06-20T06:27:31
L2538855-07K	228	Unknown	?	0.0007	1	1	1	-0.0040		2025-06-20T06:28:36
L2538855-08K	229	Unknown	?	0.0007	1	1	1	-0.0042		2025-06-20T06:29:42
L2538855-09K	230	Unknown	?	0.0010	1	1	1	-0.0013		2025-06-20T06:30:50
L2538855-11K	231	Unknown	?	0.0007	1	1	1	-0.0042		2025-06-20T06:31:58
L2538855-12K	232	Unknown	?	0.0005	1	1	1	-0.0057		2025-06-20T06:33:05
L2538855-13K	233	Unknown	?	0.0023	1	1	1	0.0106		2025-06-20T06:34:12
L2538855-14K	234	Unknown	?	0.0092	1	1	1	0.0729		2025-06-20T06:35:19
L2538855-15K	235	Unknown	?	0.0006	1	1	1	-0.0050		2025-06-20T06:36:25
CCV NO3	236	QC	?	0.0001	1	1	1	-0.0096		2025-06-20T06:37:36
CCV NO2	237	QC	1	0.1111	1	1	1	0.9930		2025-06-20T06:38:38
CCB	238	QC	0	0.0009	1	1	1	-0.0020		2025-06-20T06:39:55
L2538855-16N	239	Unknown	?	0.0005	1	1	1	-0.0056		2025-06-20T06:40:58
CCV NO3	240	QC	?	0.0001	1	1	1	-0.0094		2025-06-20T06:42:07
CCV NO2	241	QC	1	0.1110	1	1	1	0.9923		2025-06-20T06:43:13
CCB	242	QC	0	0.0012	1	1	1	0.0005		2025-06-20T06:44:29

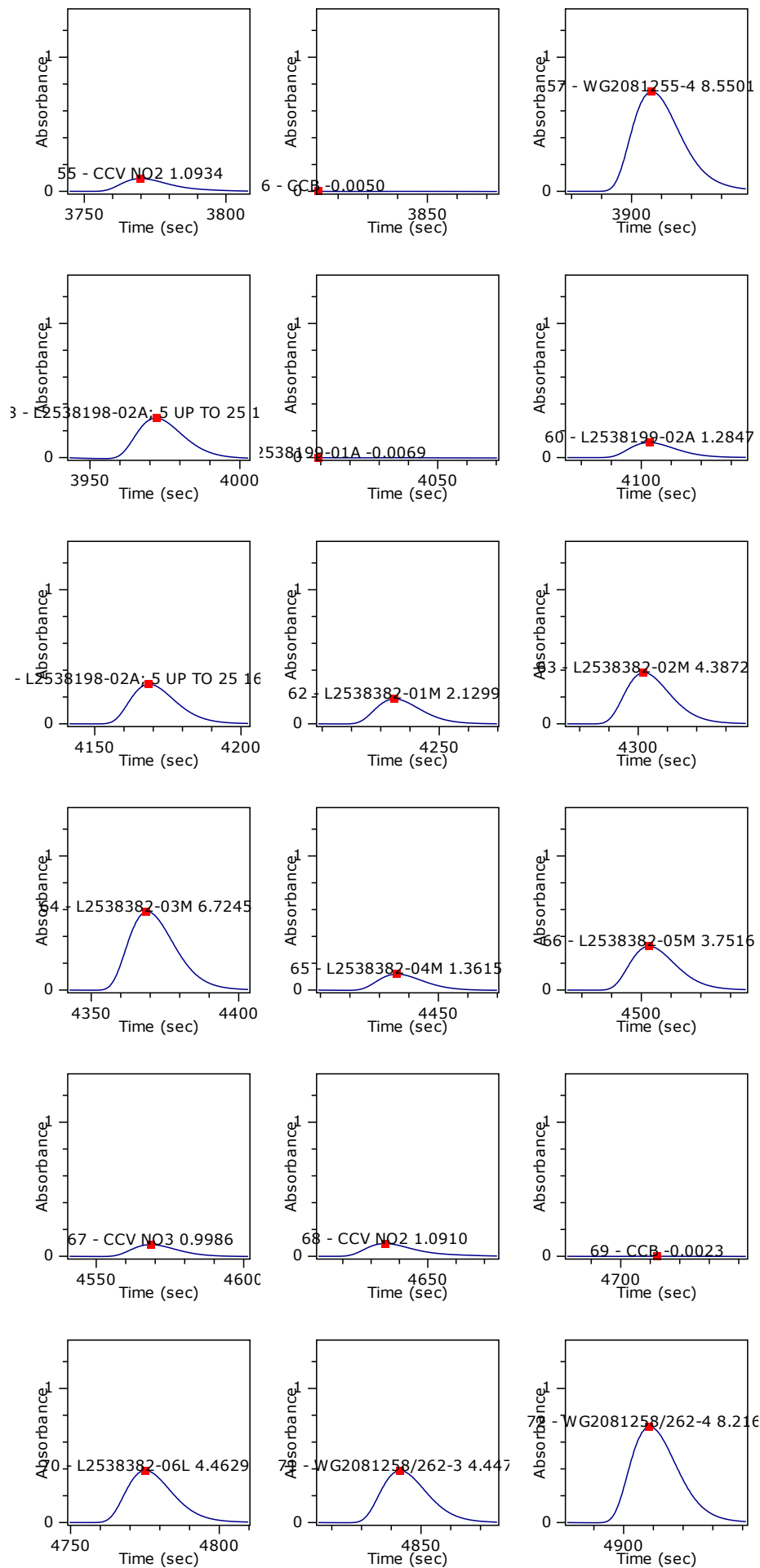
Peaks:

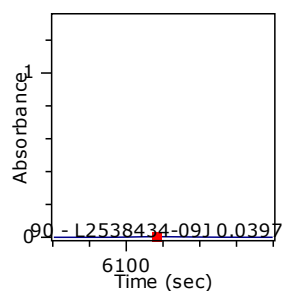
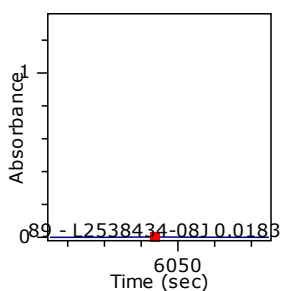
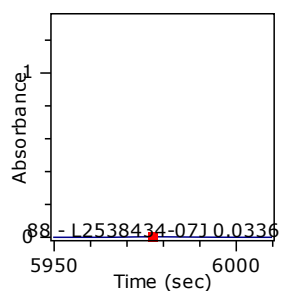
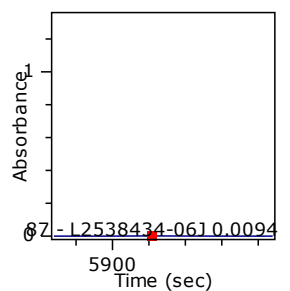
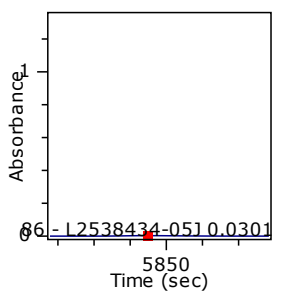
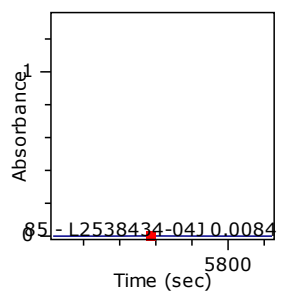
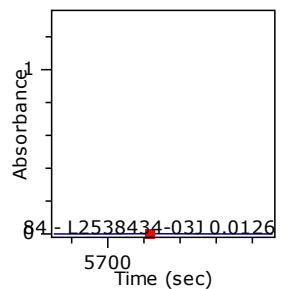
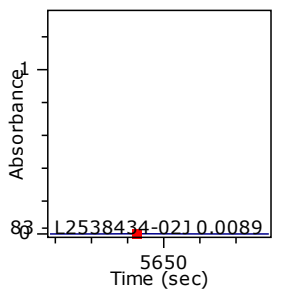
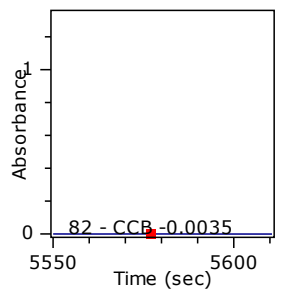
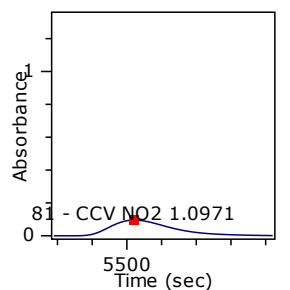
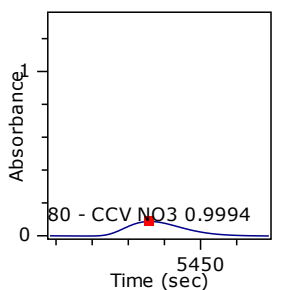
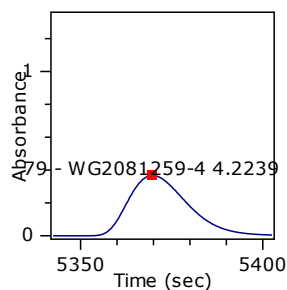
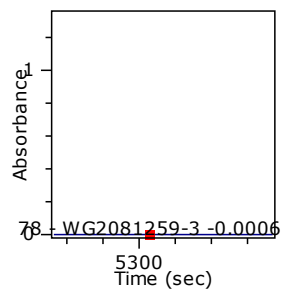
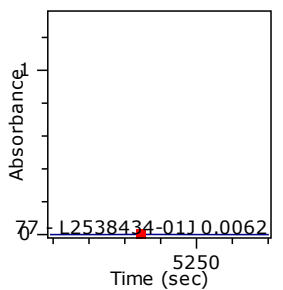
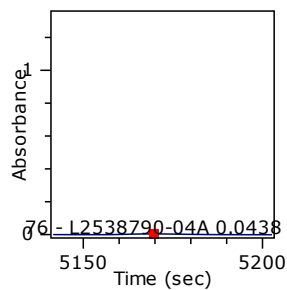
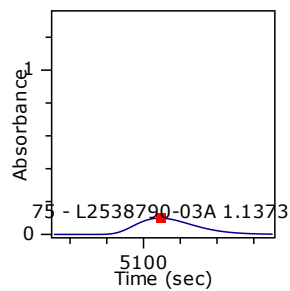
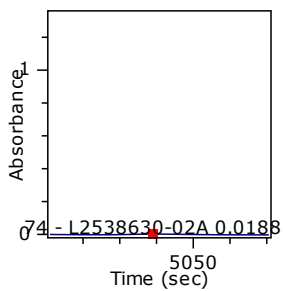
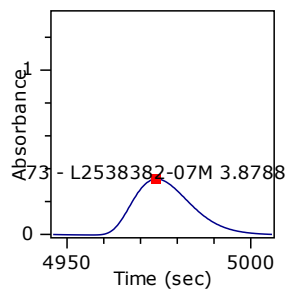
Channel: 1-NOx

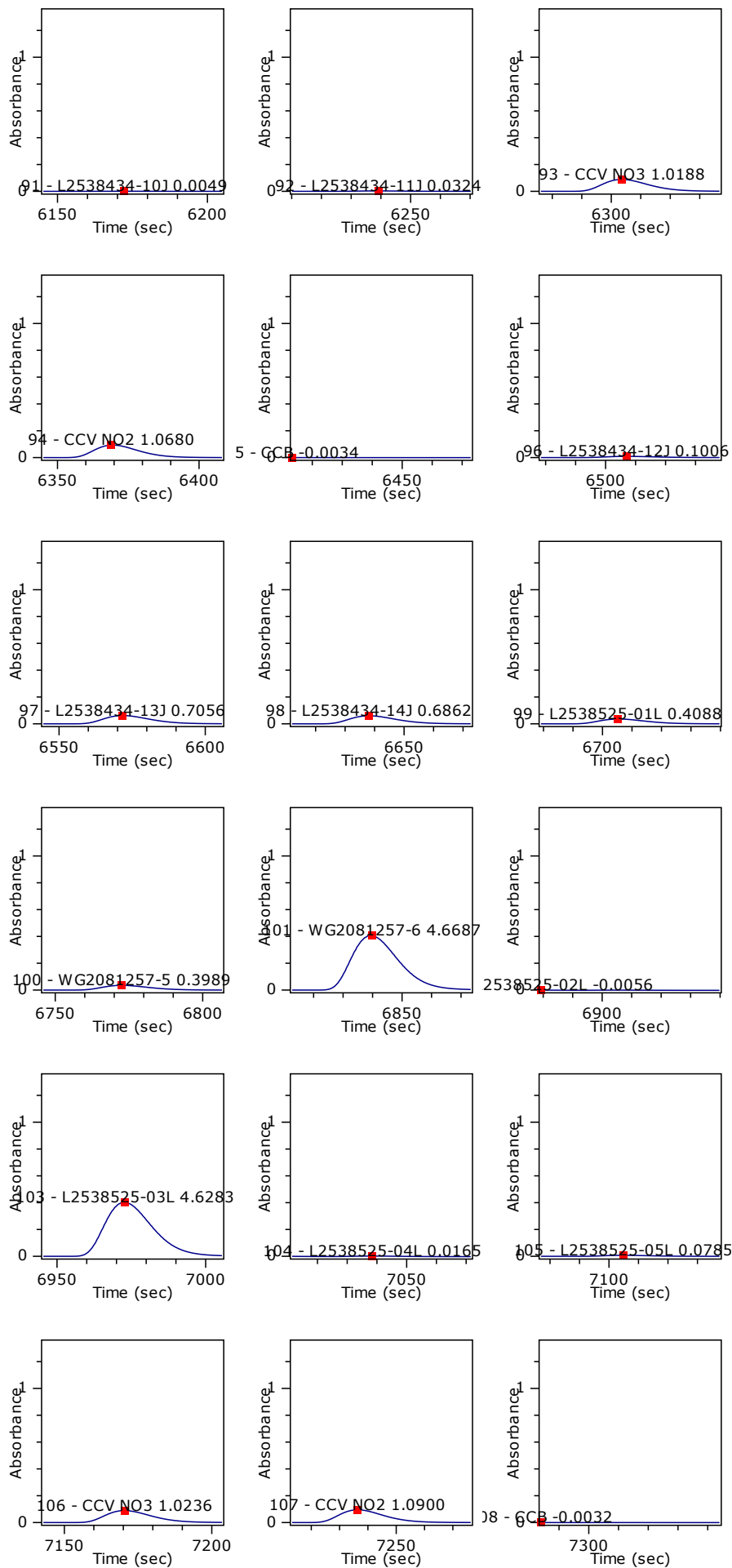


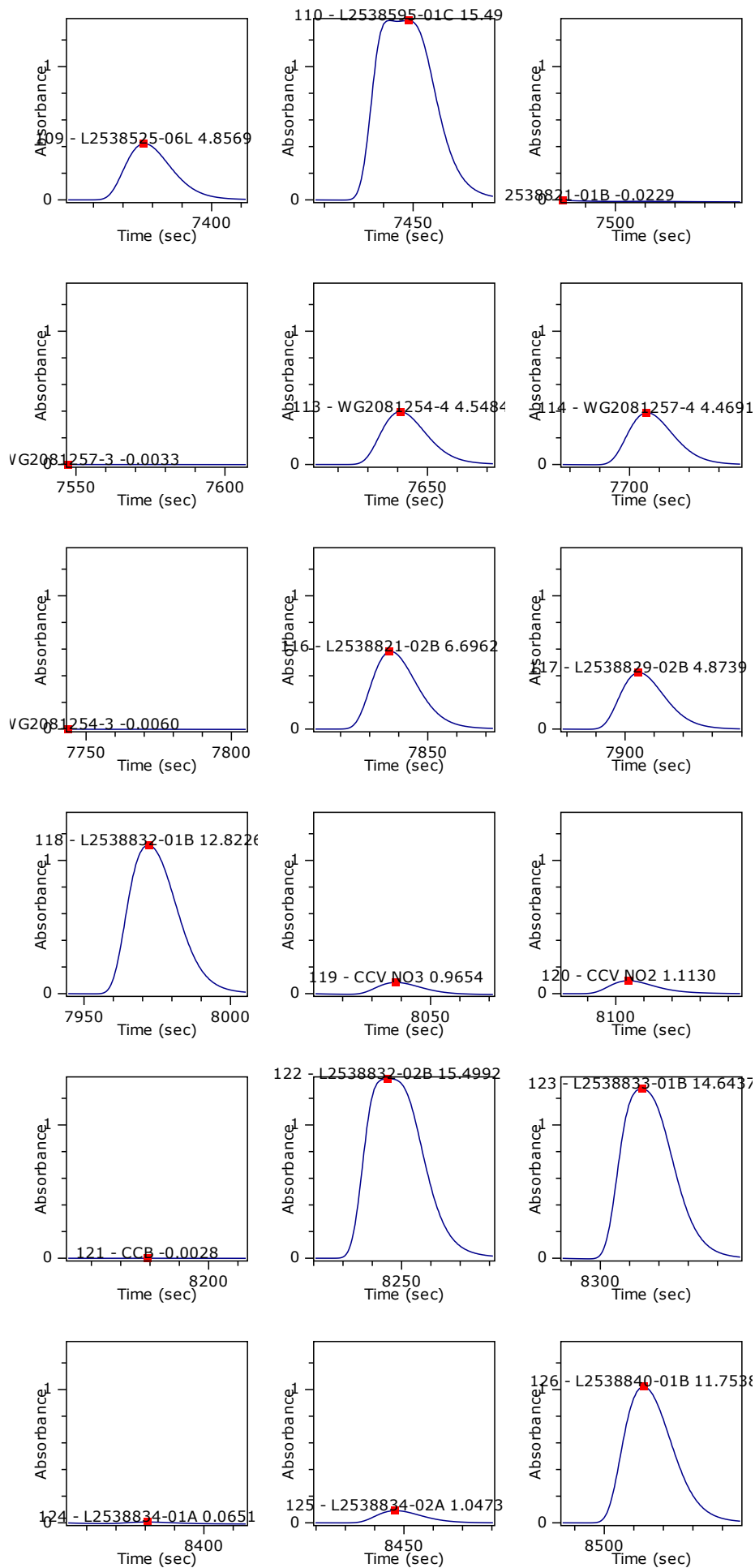


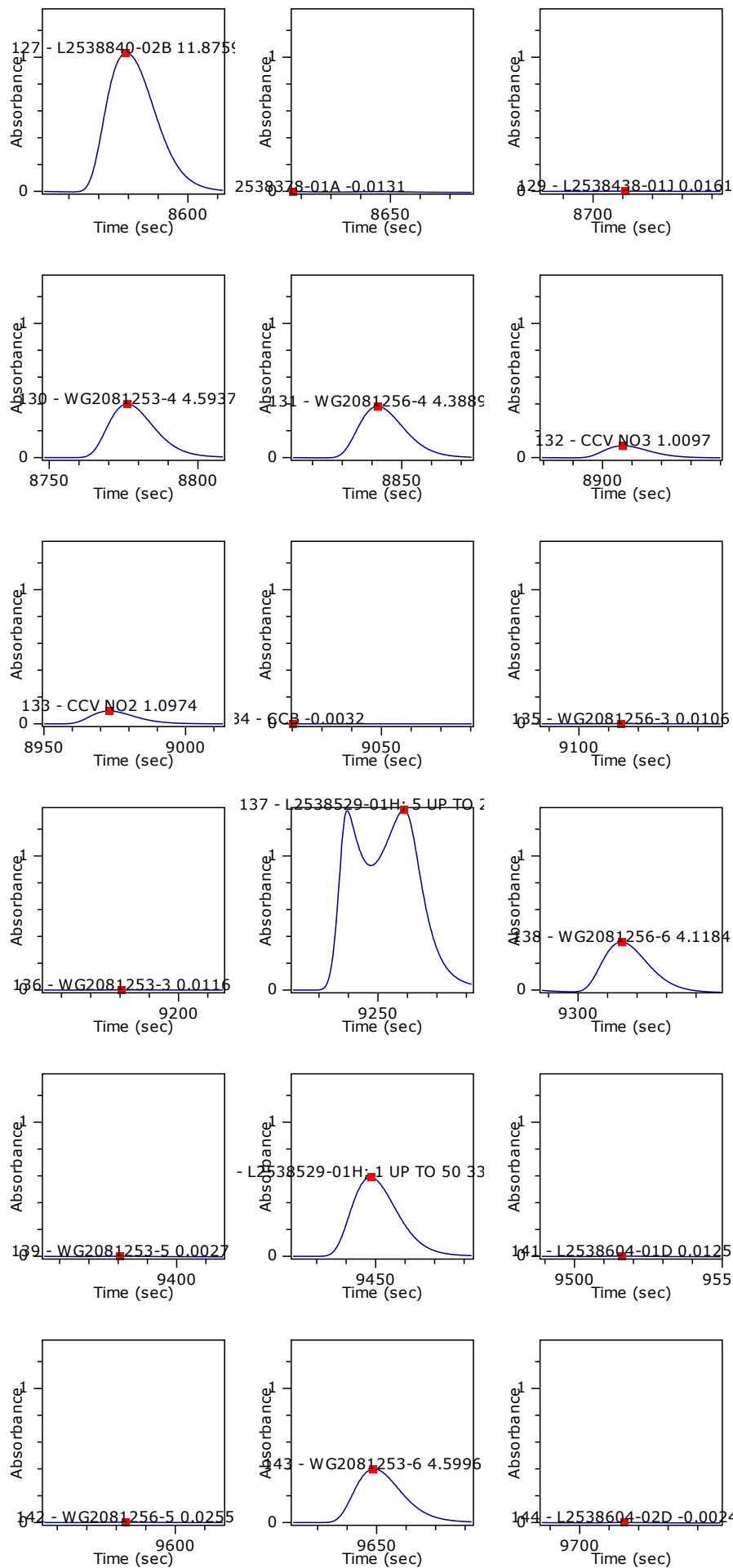


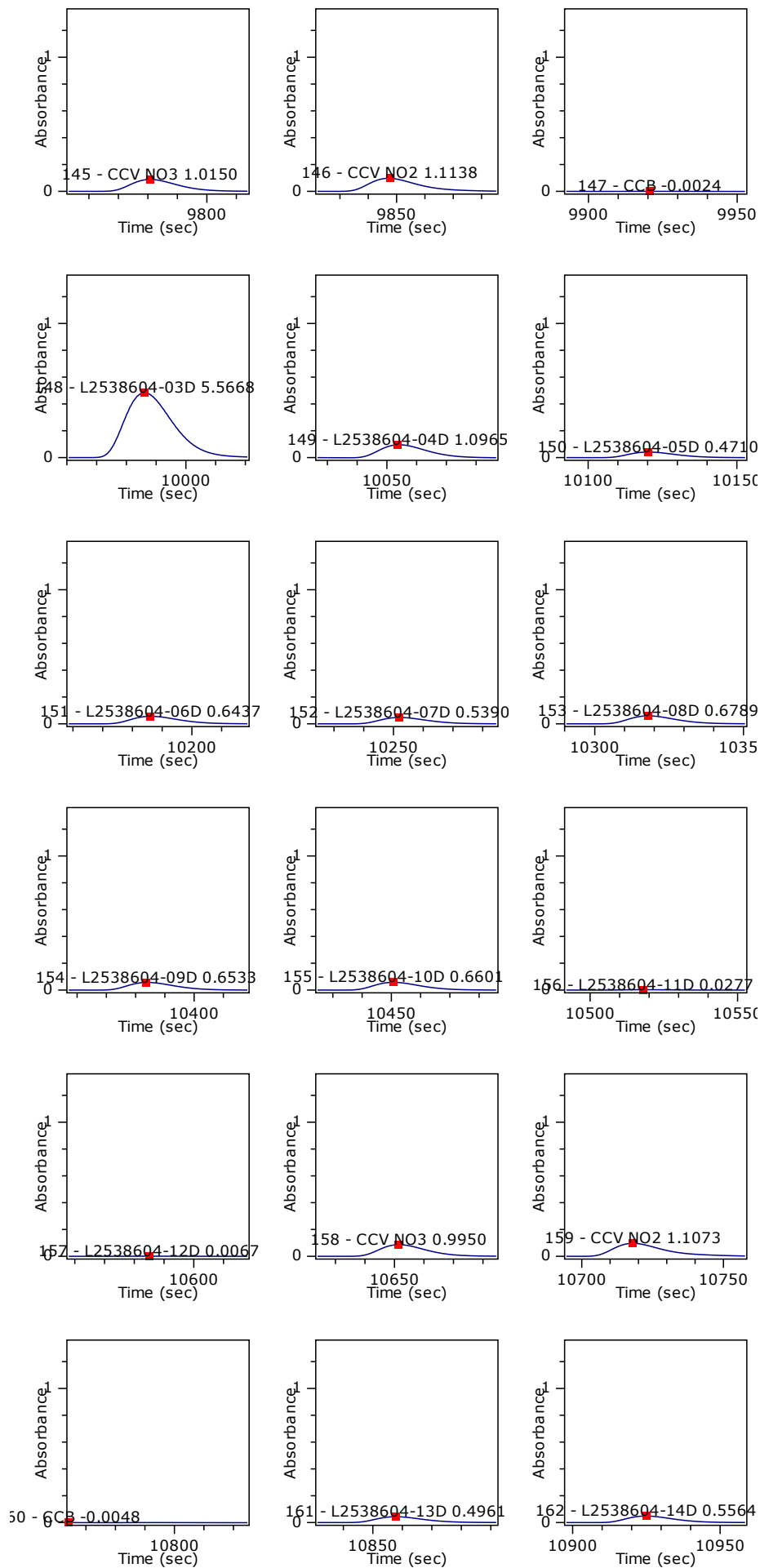


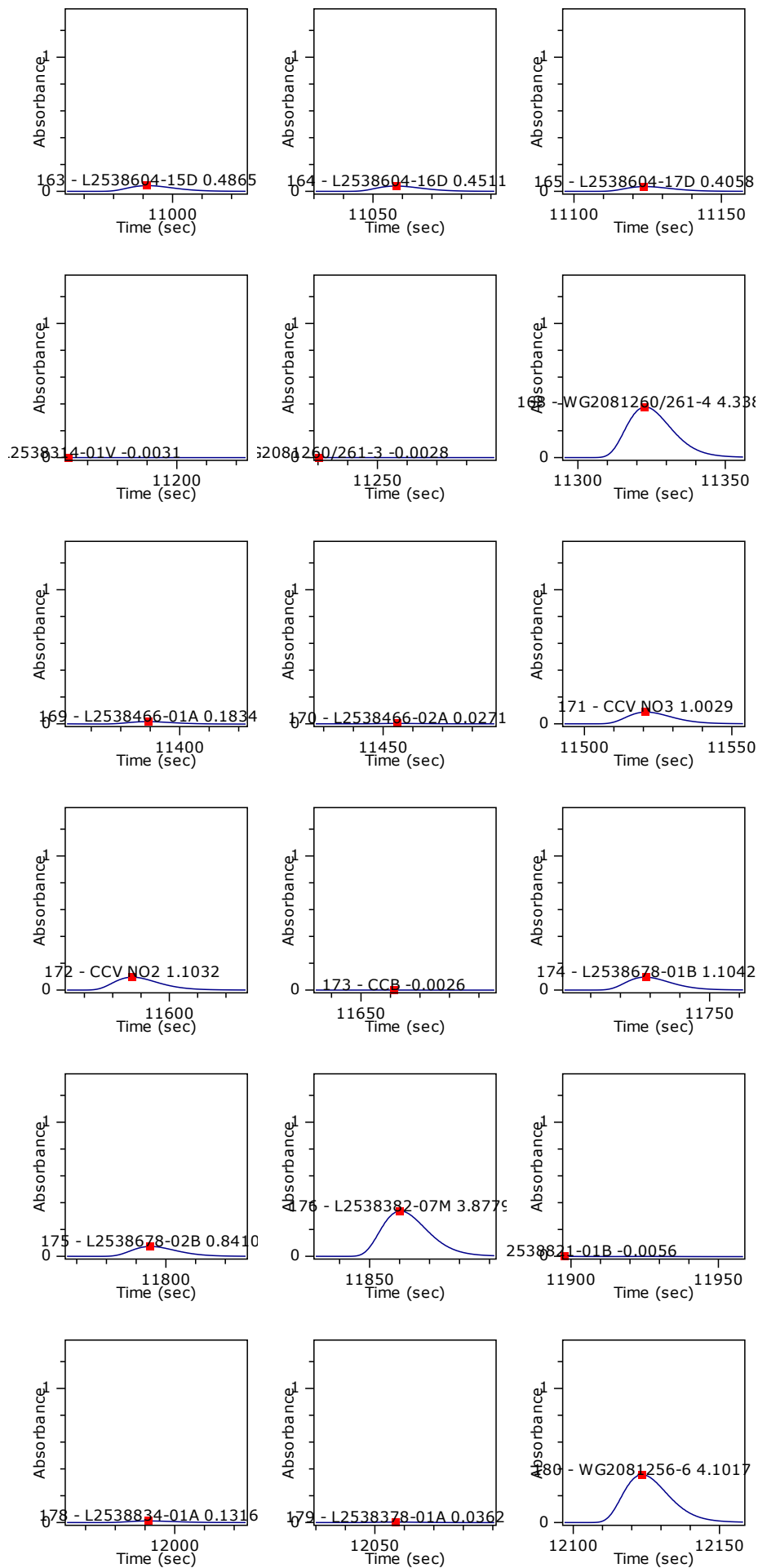


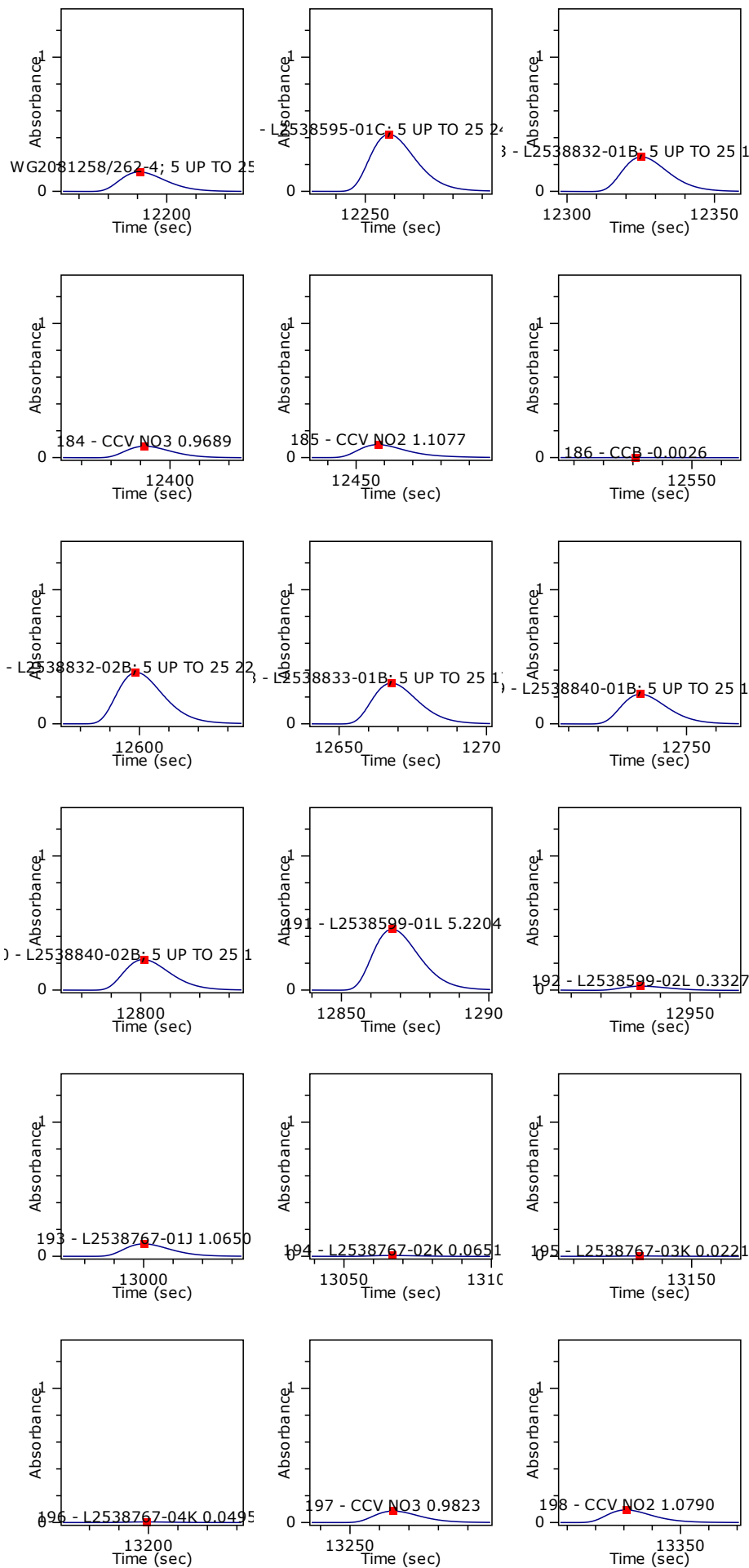


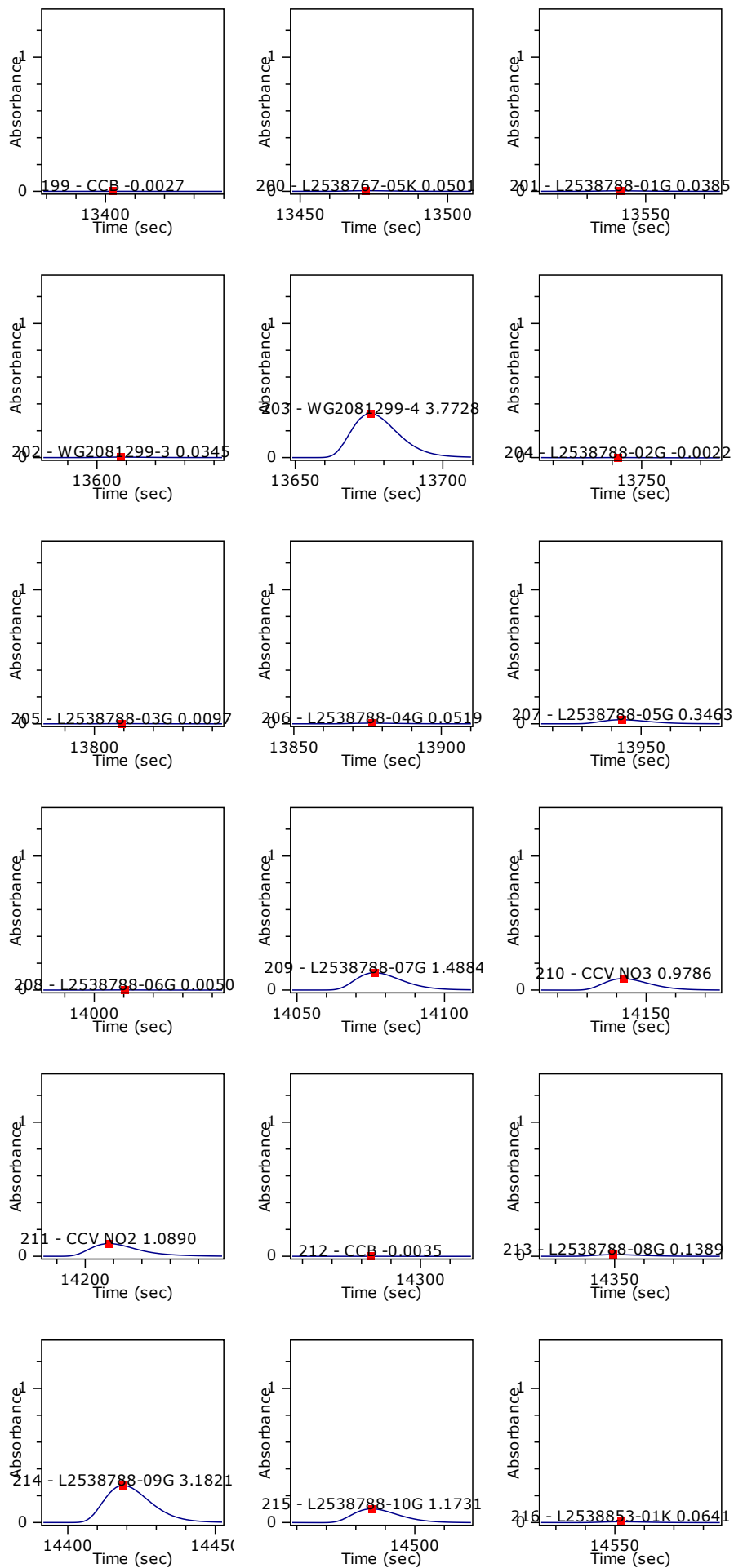


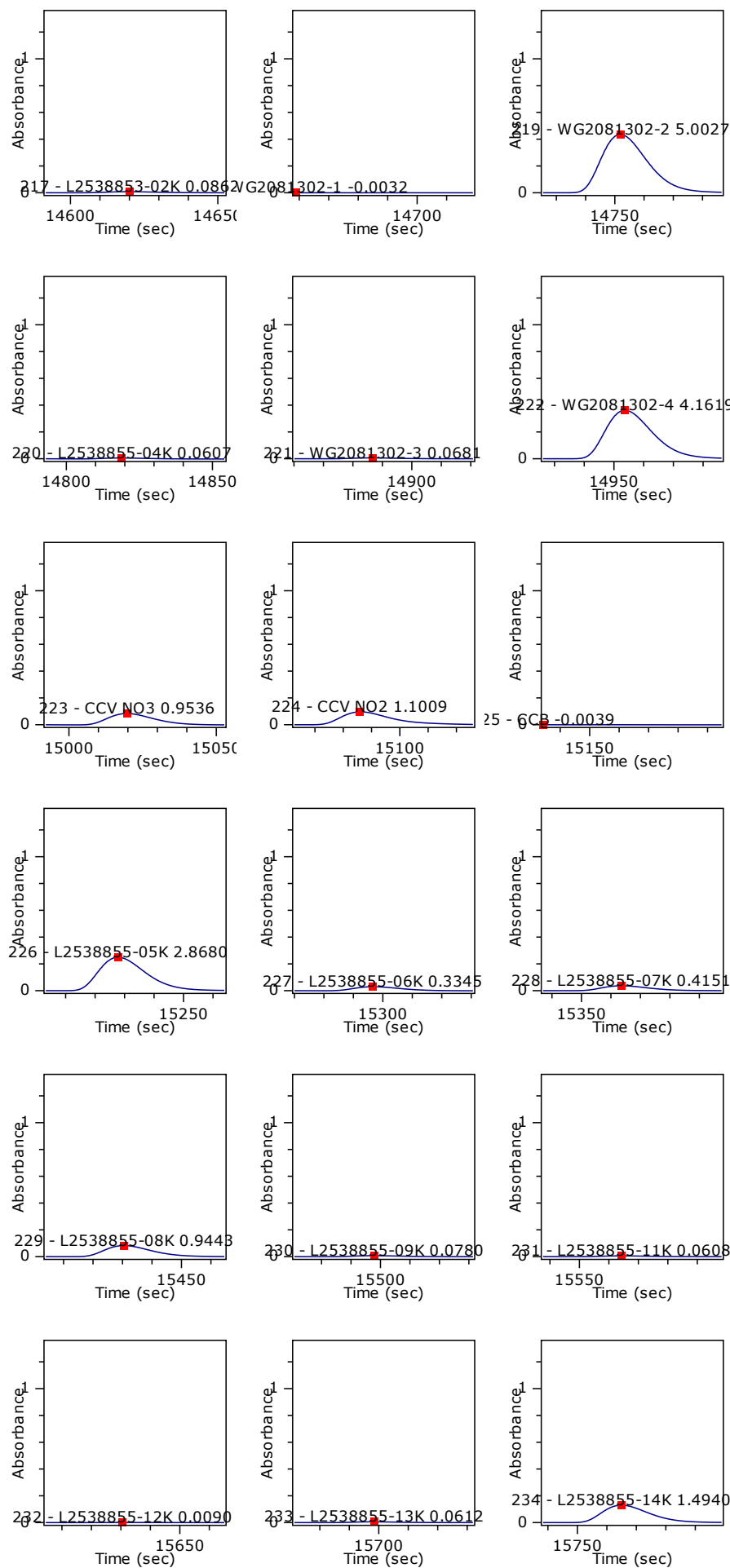


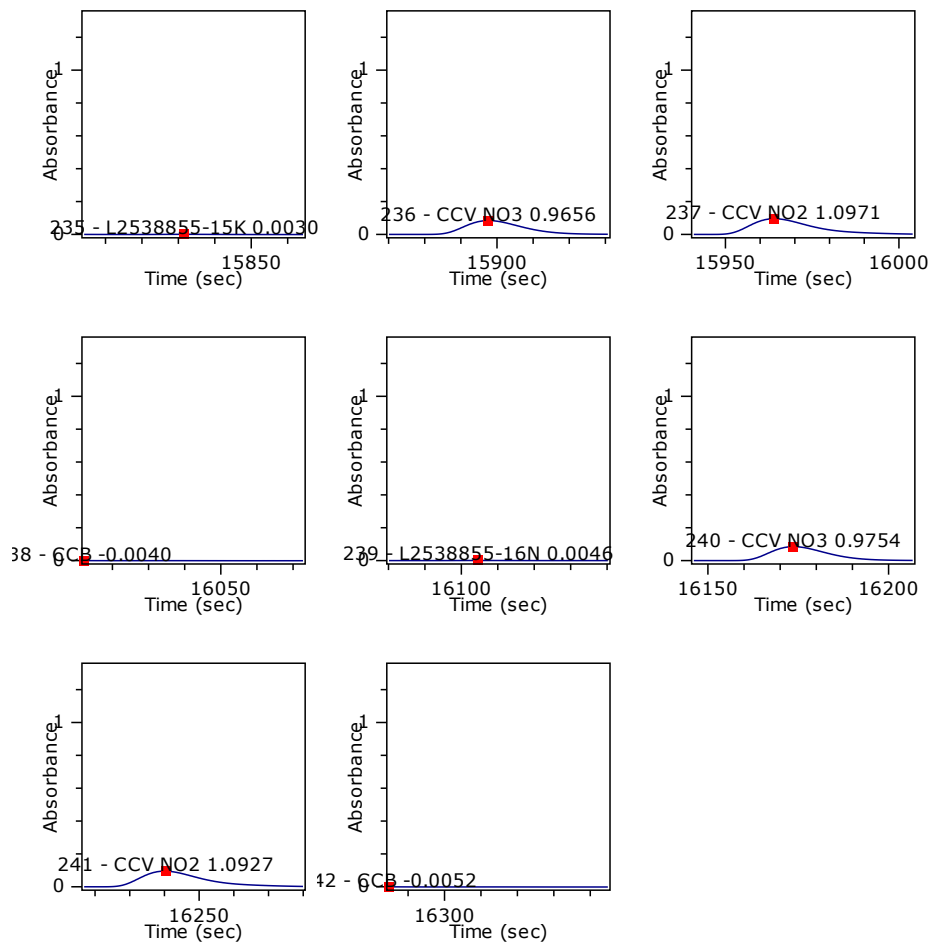




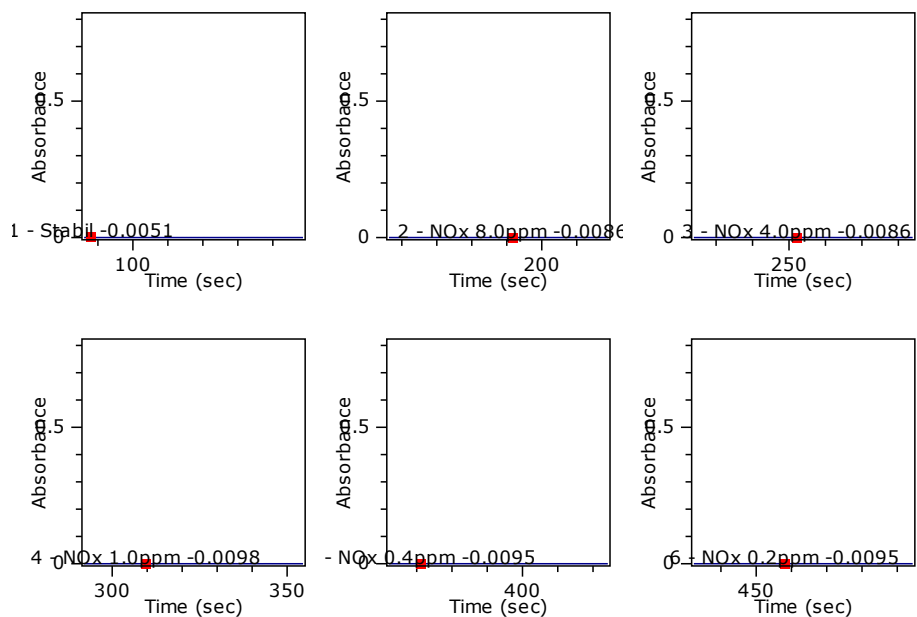


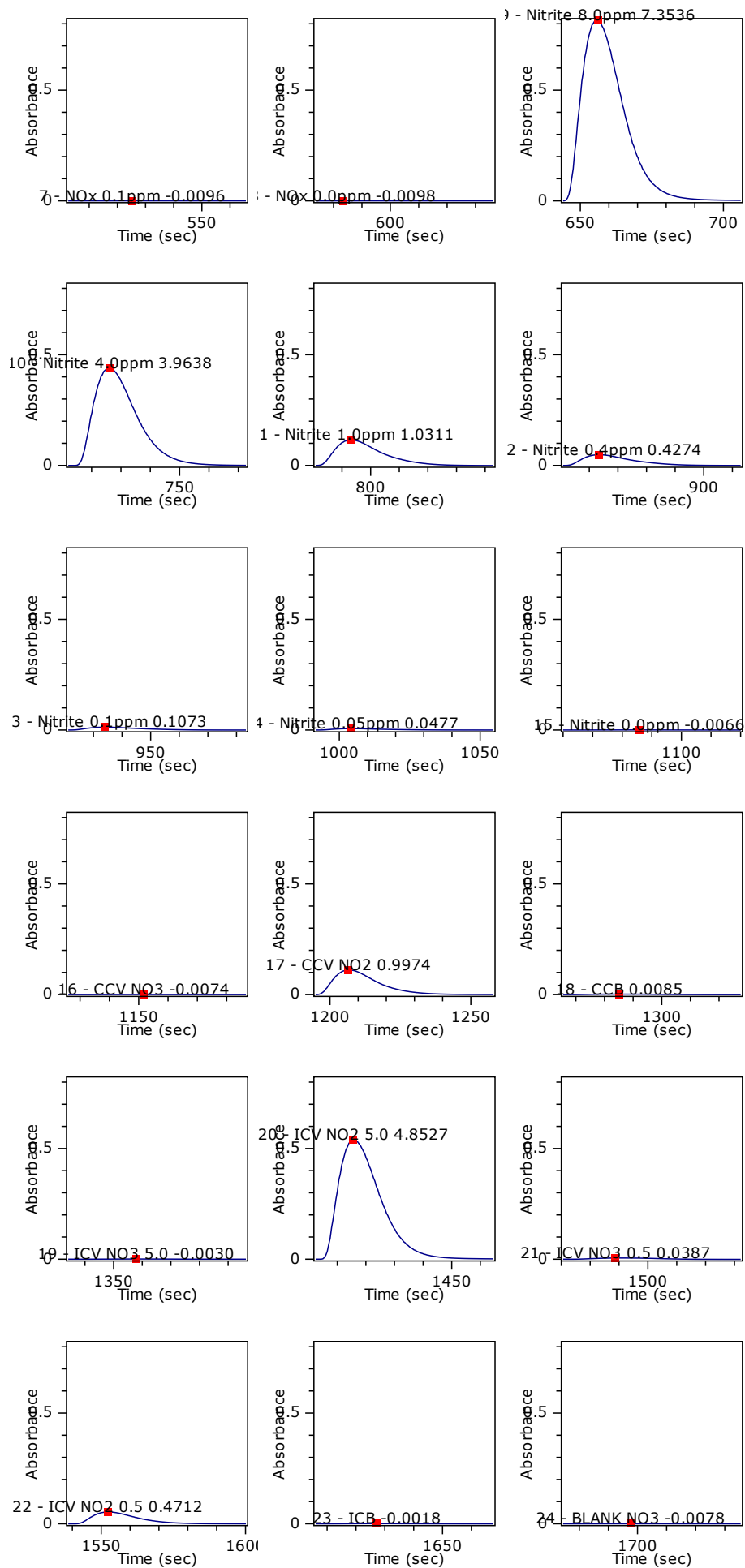


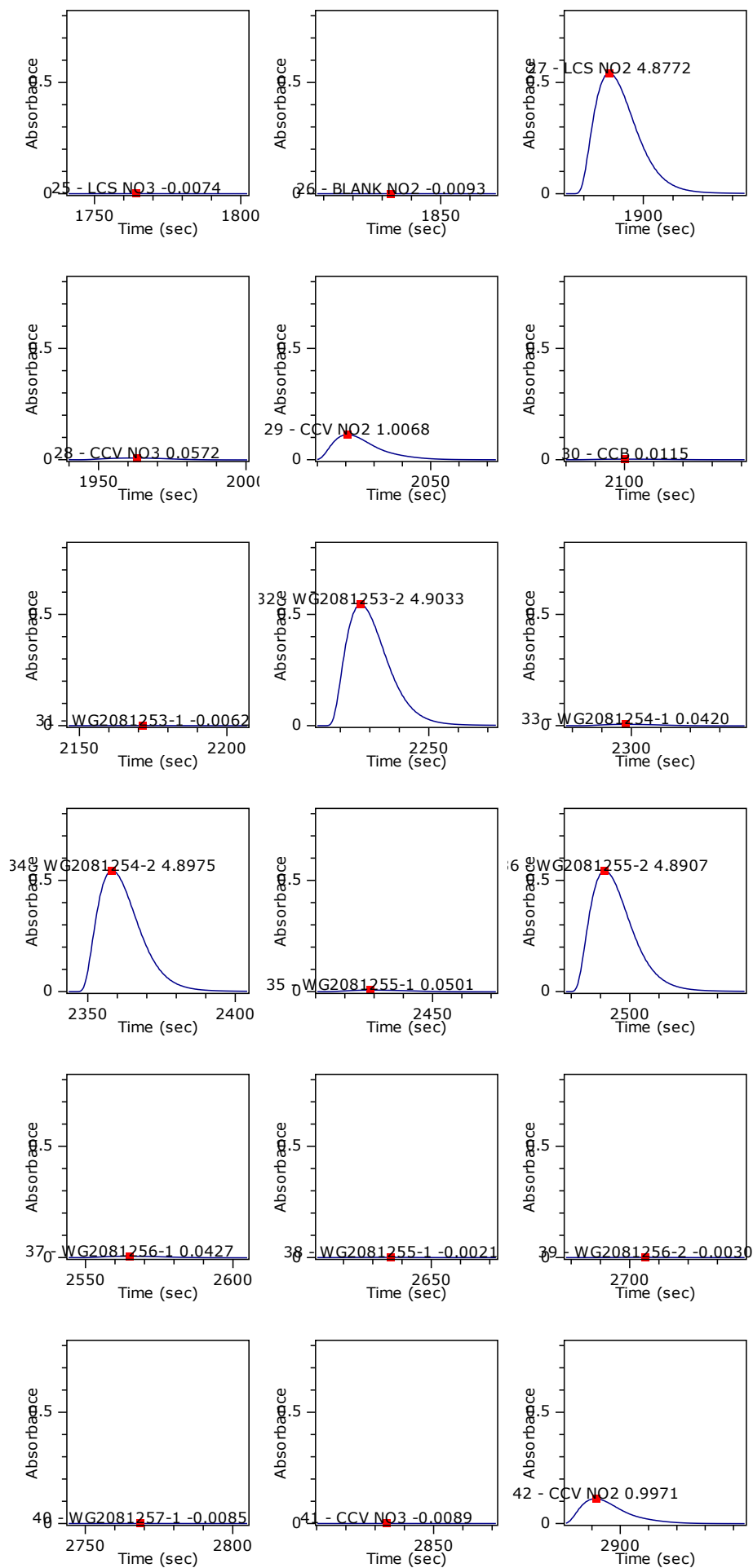


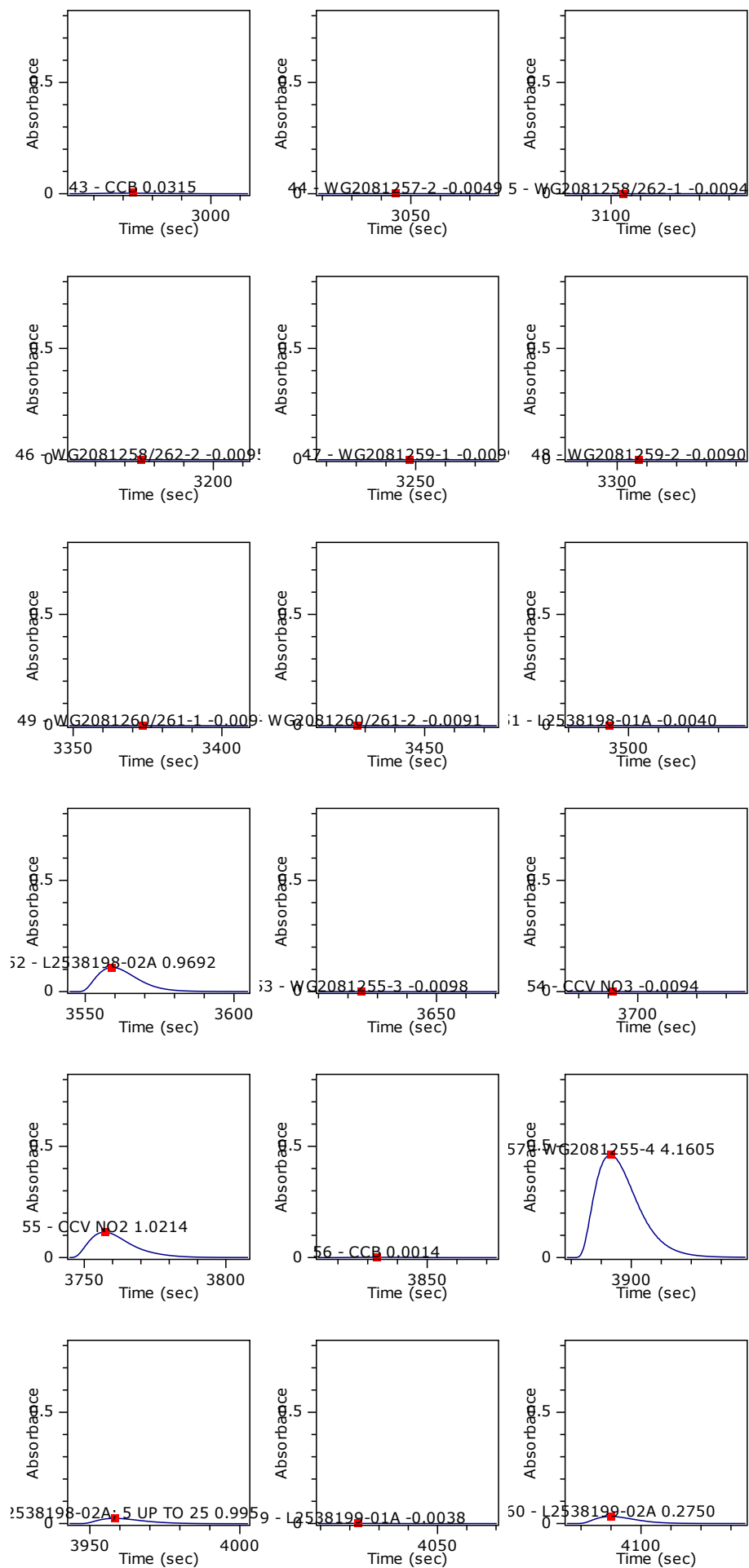


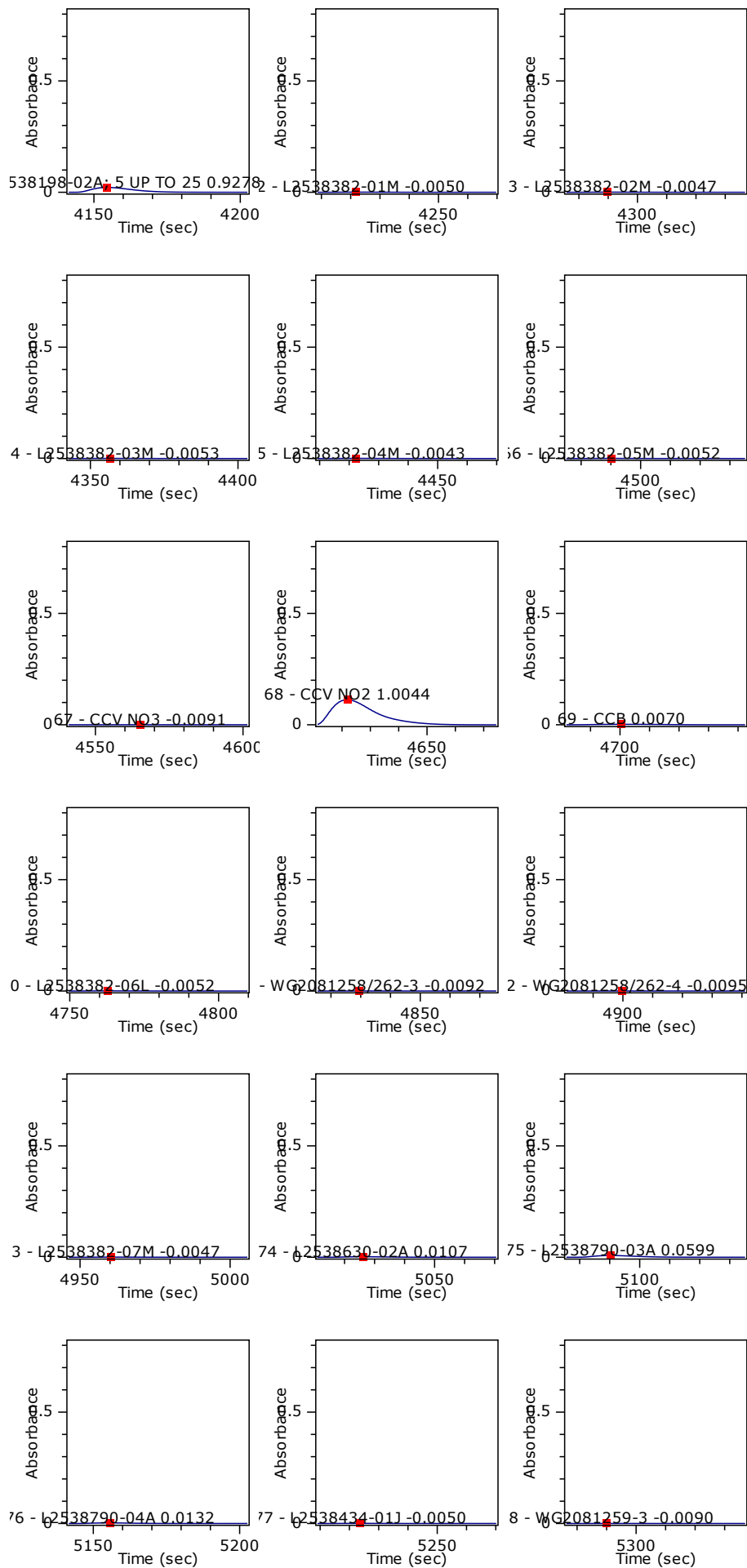
Channel: 2-NO2

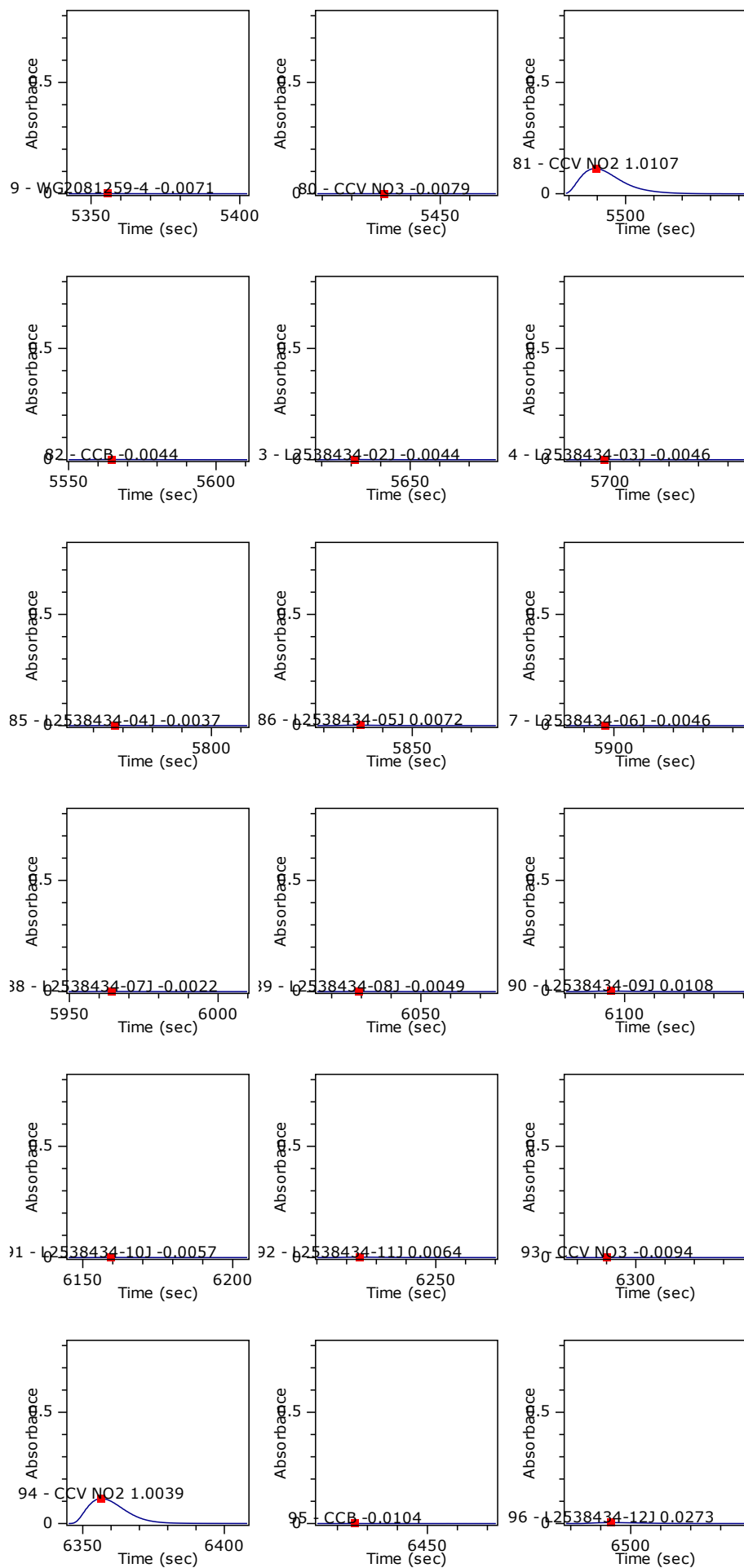


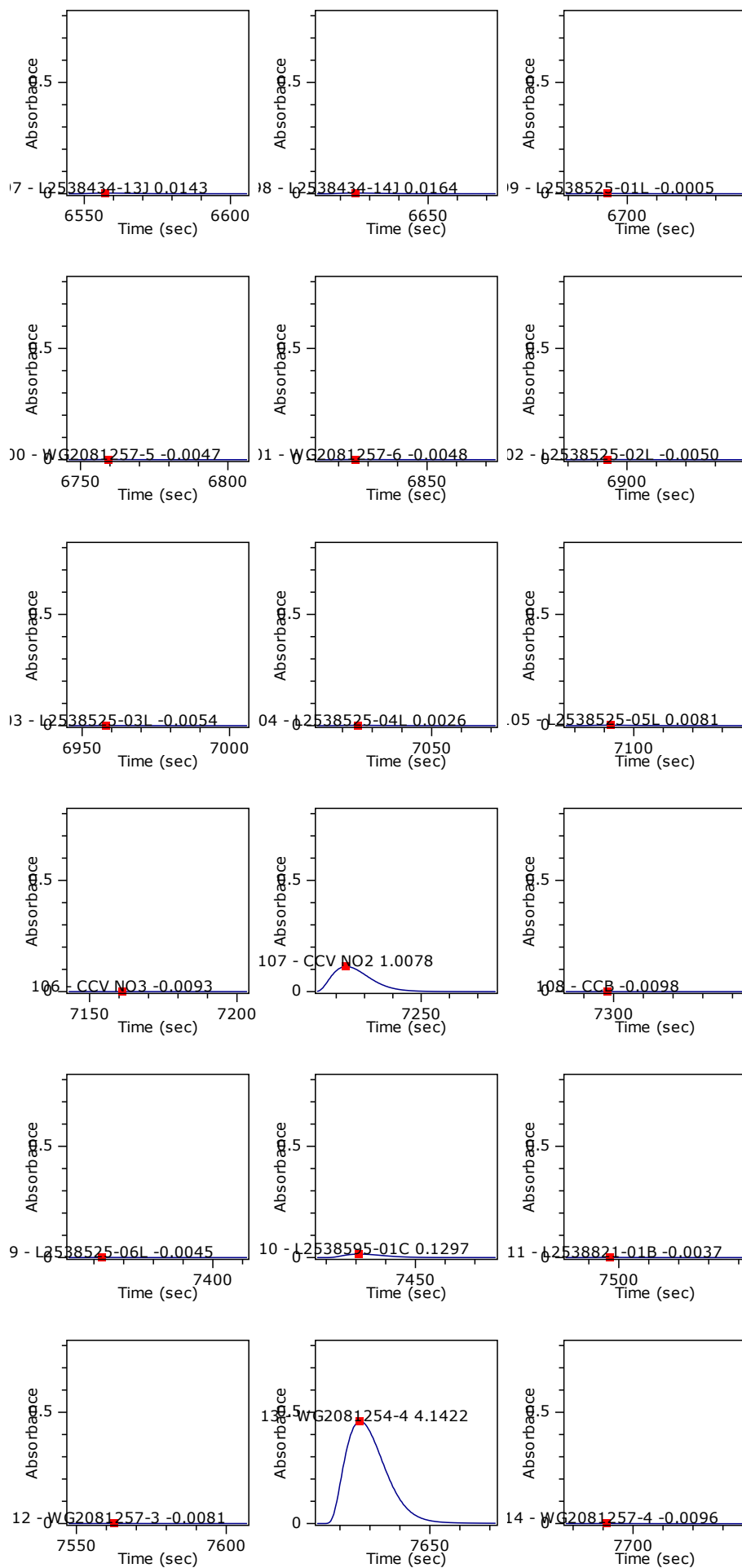


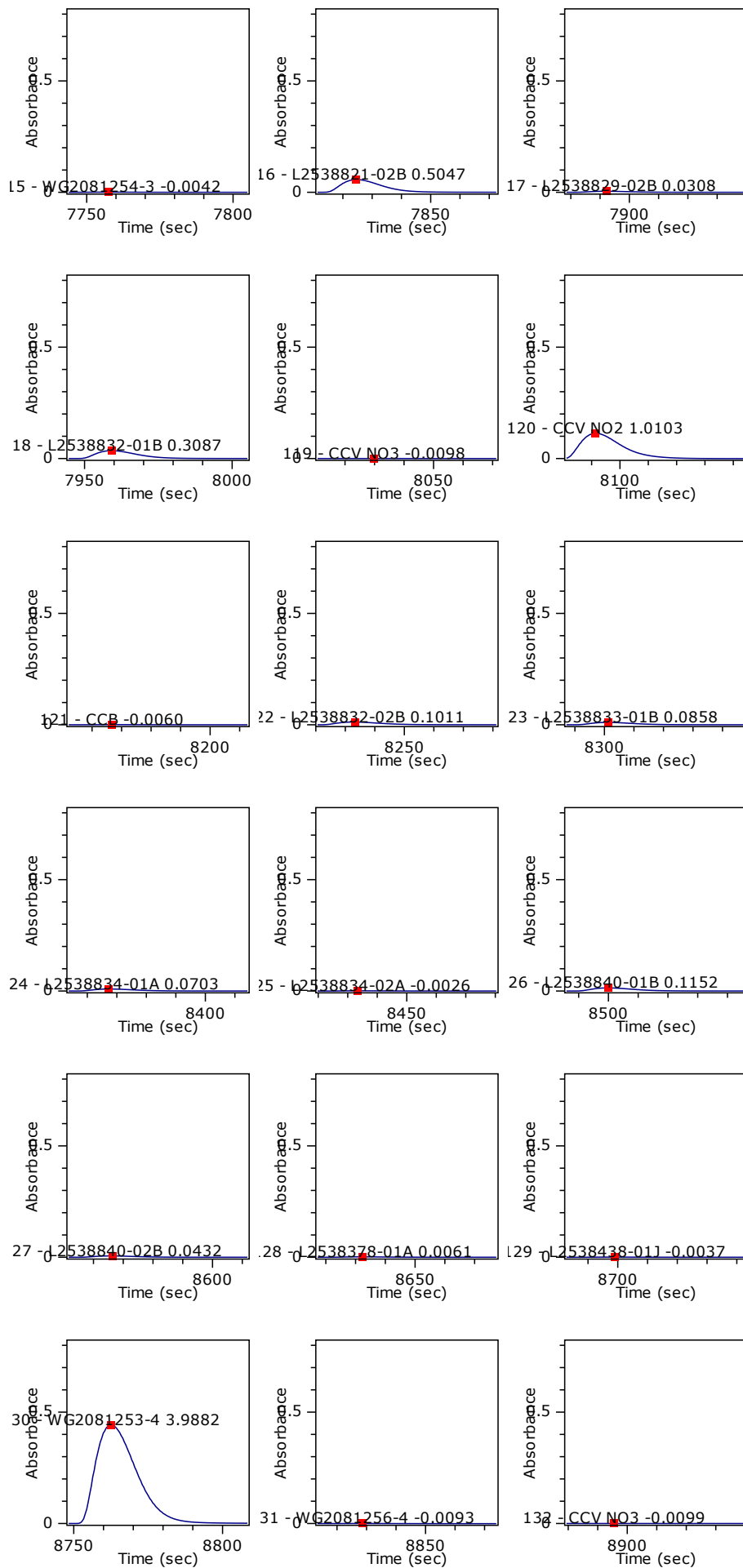


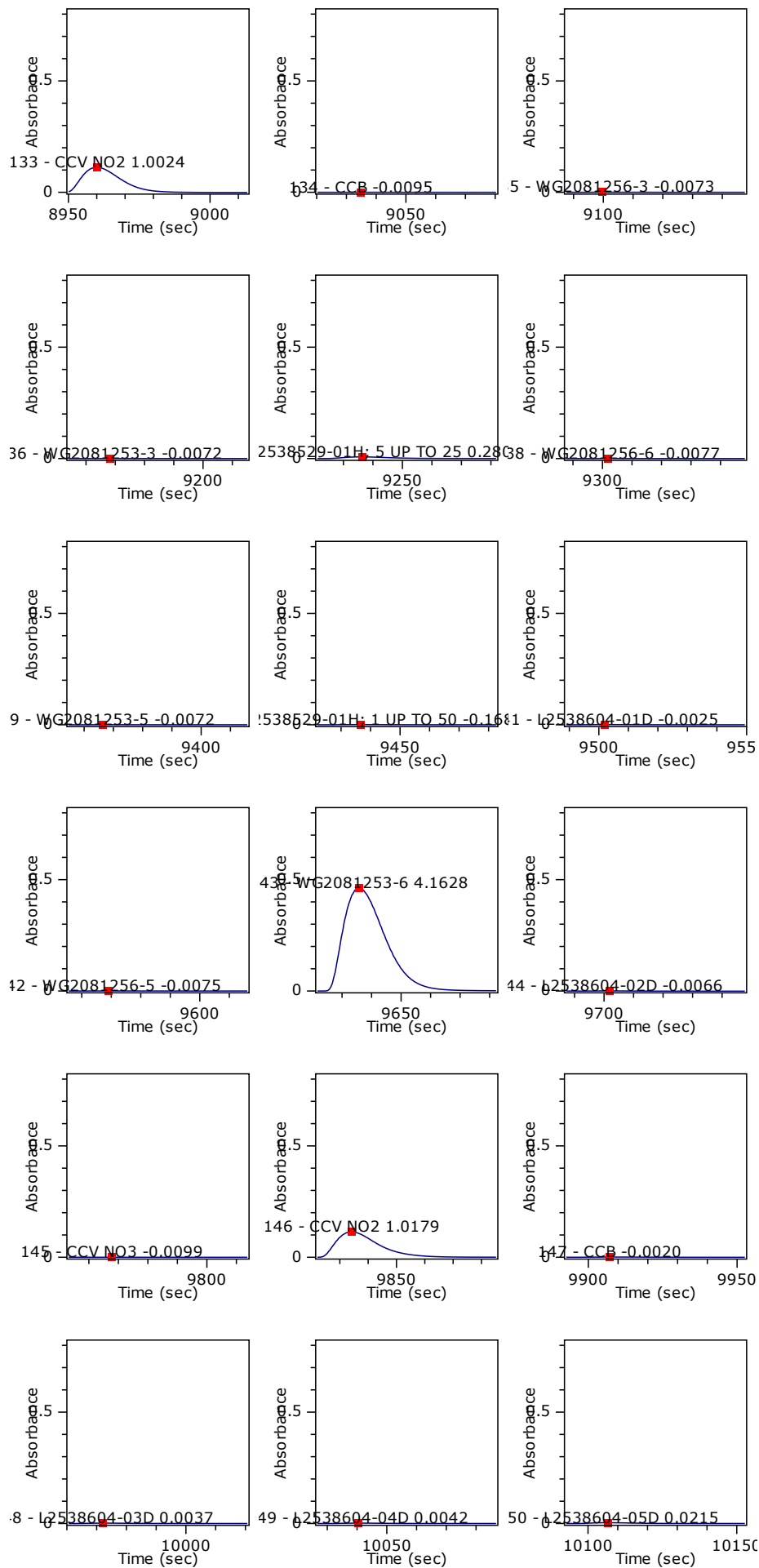


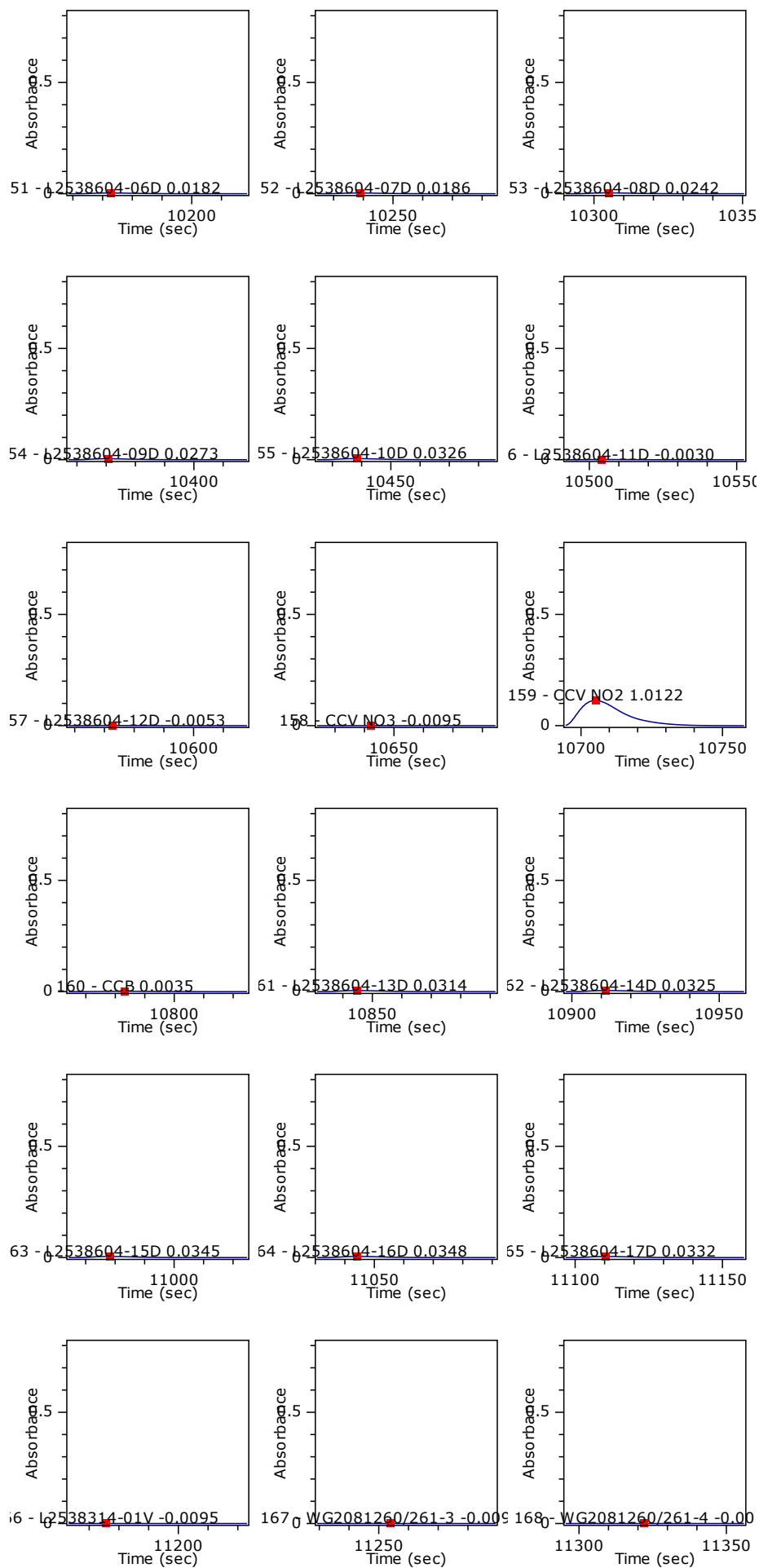


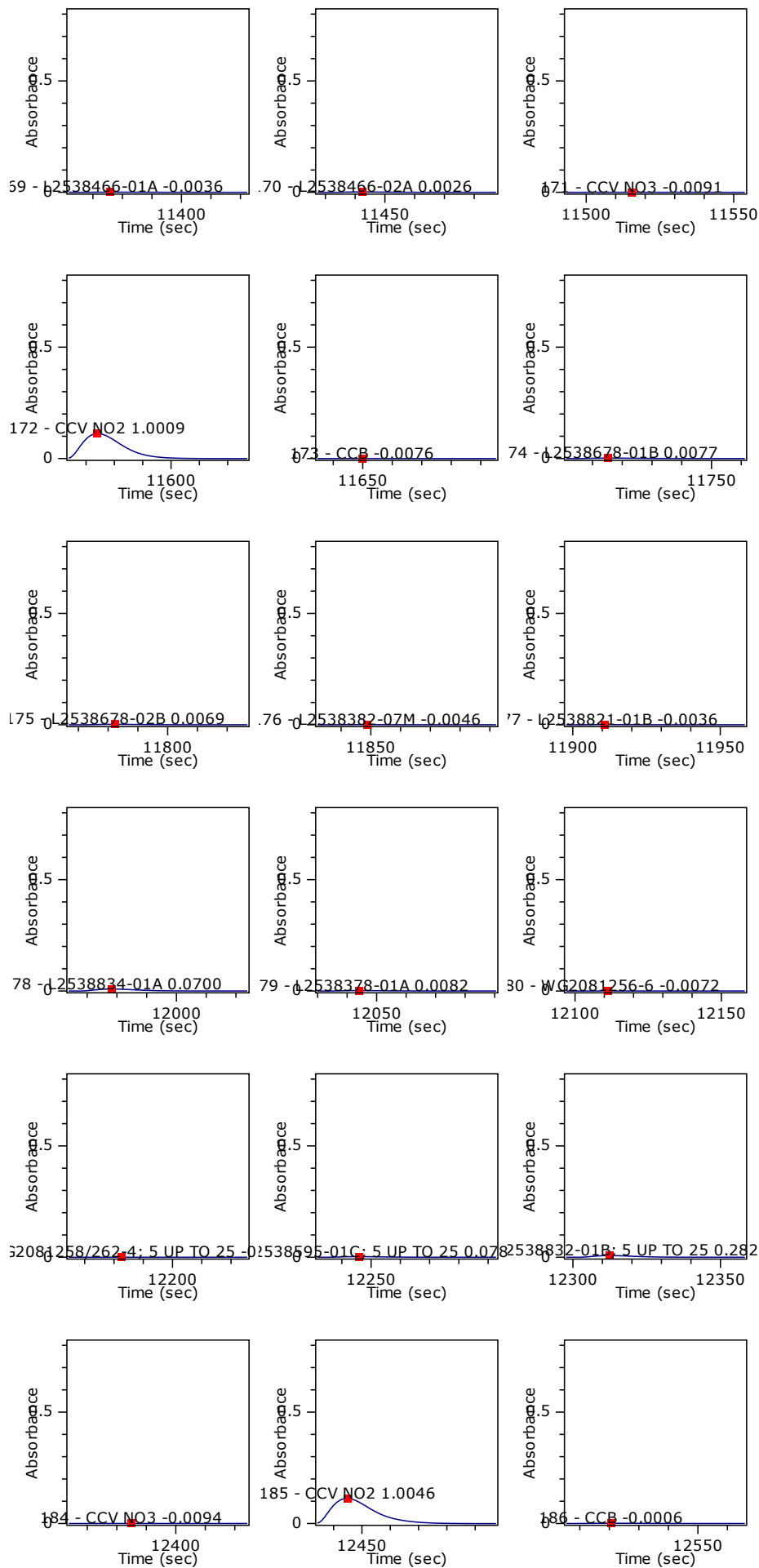


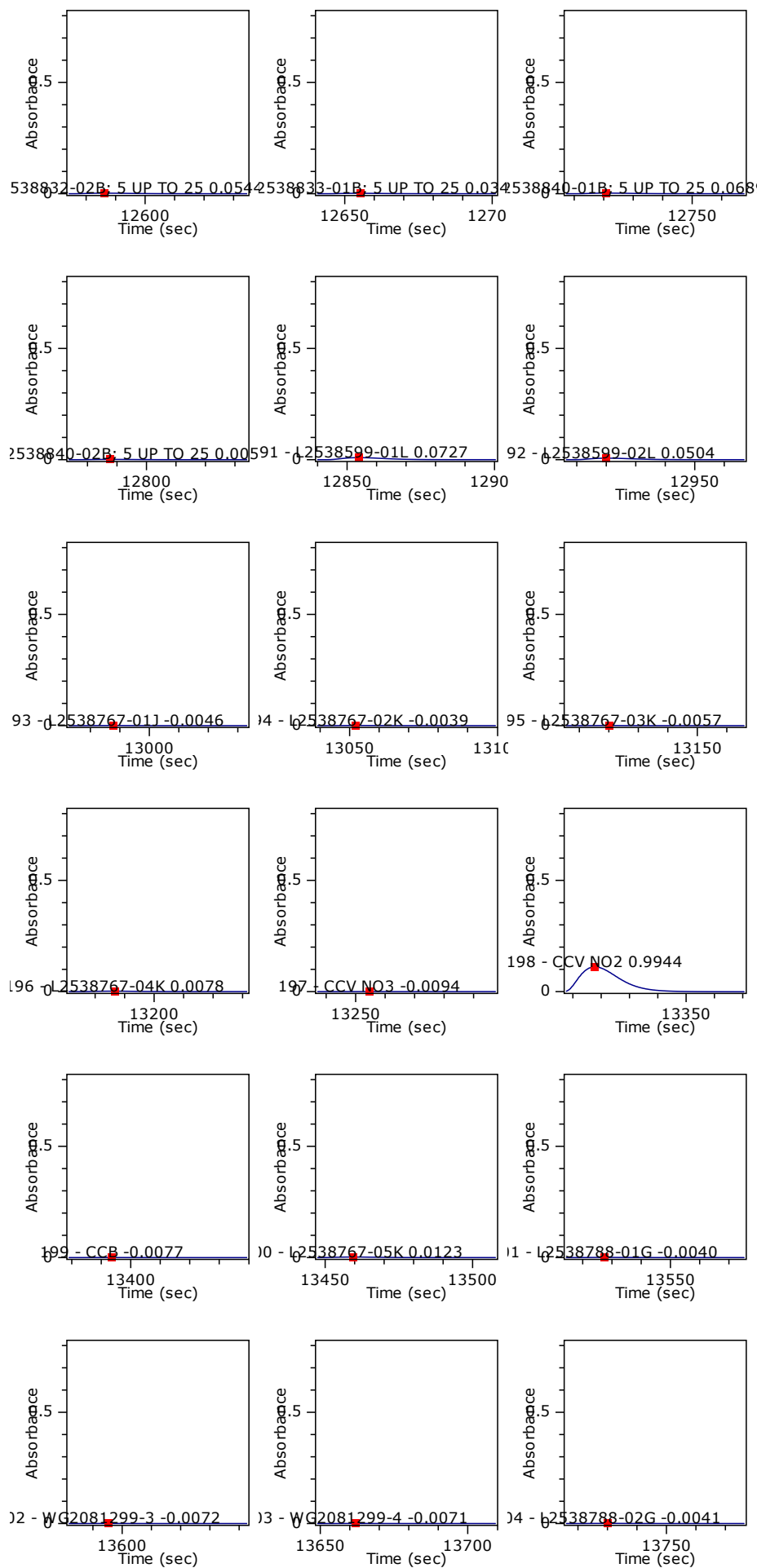


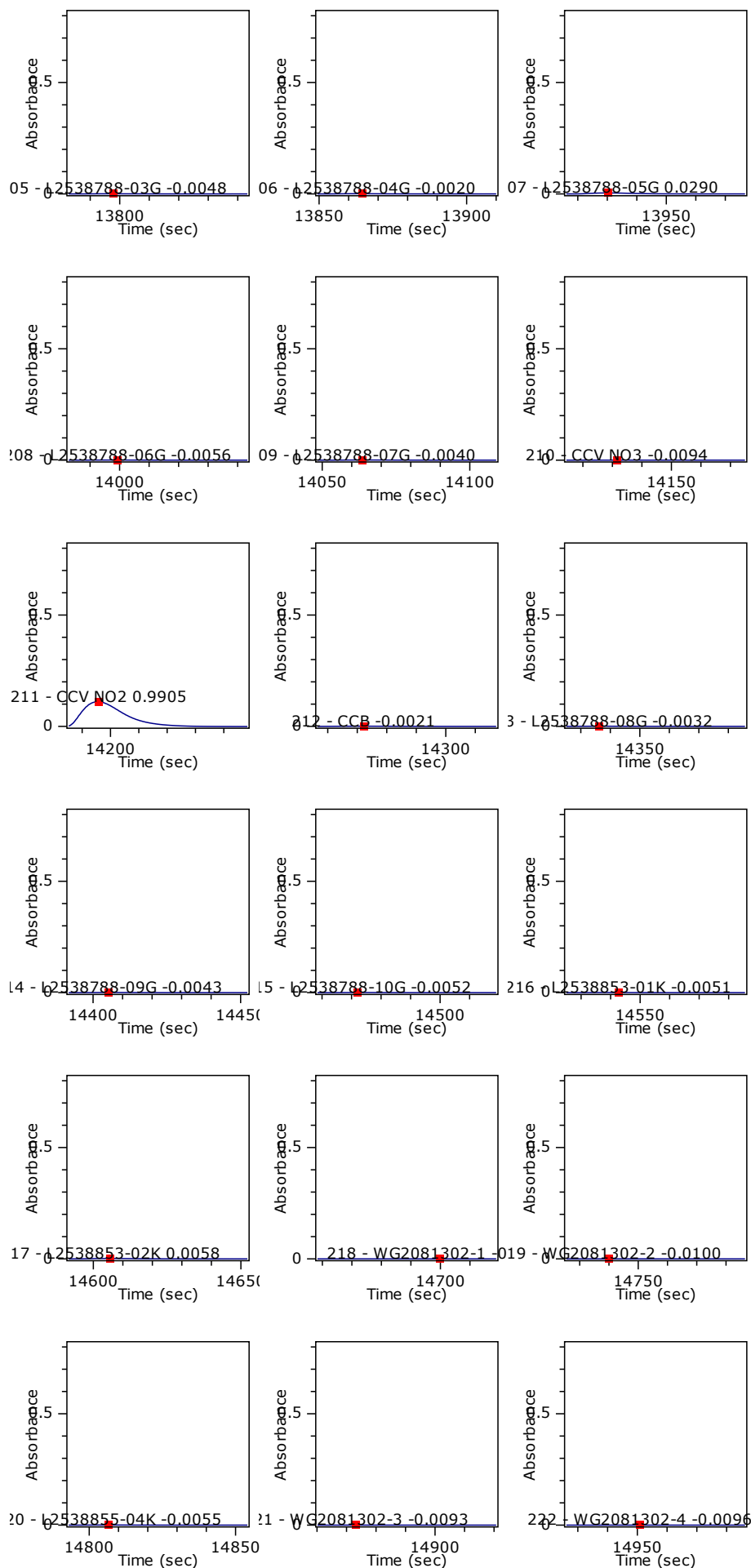


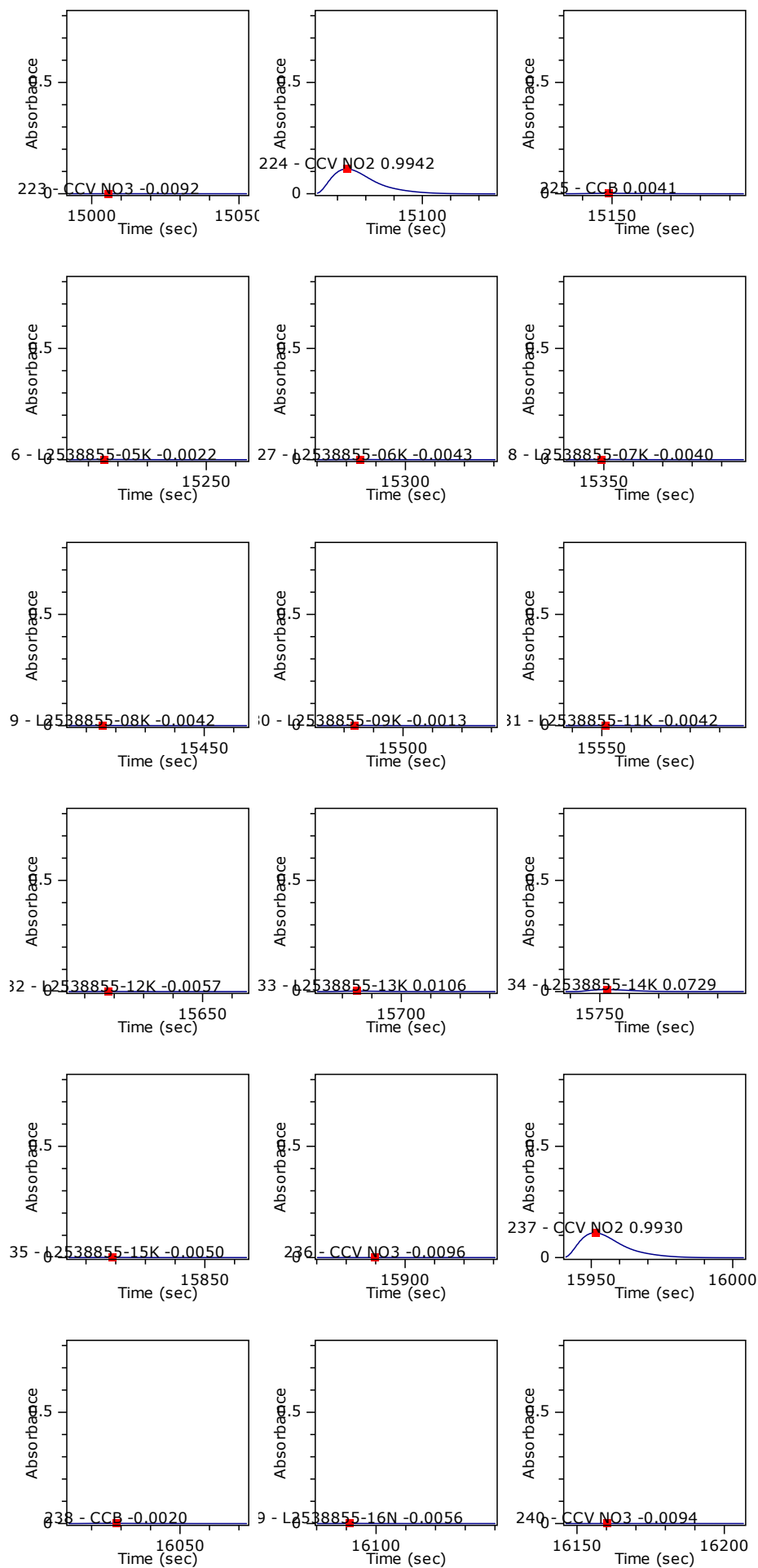


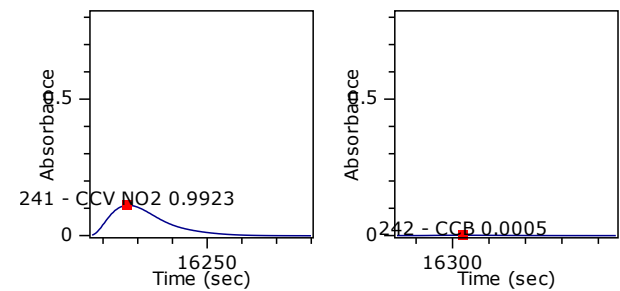












Data Processing Parameters:

Channel: 1-NOx	
Response parameter	Peak Height
Filter Type	None
Filter Window	3
Enable Peak Window	False
Peak Window Start	0
Peak Window Stop	0
Enable Baseline Correction	False
Enable 2 Point Correction	False
Baseline Start	0
Baseline Stop	0
Point 2 Baseline Start	0
Point 2 Baseline Stop	0
Background Correction	Single Wavelength
Ref Wavelength 1	600
Ref Wavelength 2	0

Channel: 2-NO2	
Response parameter	Peak Height
Filter Type	None
Filter Window	3
Enable Peak Window	False
Peak Window Start	0
Peak Window Stop	0
Enable Baseline Correction	False
Enable 2 Point Correction	False
Baseline Start	0
Baseline Stop	0
Point 2 Baseline Start	0
Point 2 Baseline Stop	0
Background Correction	Single Wavelength
Ref Wavelength 1	600
Ref Wavelength 2	0

Method Log:

FIAsoft FIAsoft v3.1.10

FIAlyzer Settings

FIALab1 Serial Number: FIA31428

FIALab2 Serial Number: FIA31429

Pump: Connected on COM8

Spectrometer Settings

Spectrometer1

Spectrometer Type: tec5

Integration Time: 5.5
Bandwidth: 2
Data Acq Rate: 2
Use Full Spectrum: False
|--- Low: 500nm
|--- High: 650nm
Reduce to Boxcar: True

Spectrometer2

Spectrometer Type: tec5
Integration Time: 5.2
Bandwidth: 2
Data Acq Rate: 2
Use Full Spectrum: False
|--- Low: 500nm
|--- High: 650nm
Reduce to Boxcar: True

Start Time

2025-06-20T02:12:47

Method

' Method Script for NOx-NO2

Autosave Data C:\FIALab\Autosave Data\DateTime
FIALab Injection Valve Sample Load
Message Cadmium Column on for NOx
FIALab Peristaltic Pump Clockwise(%) 55

Autosampler Wash
Delay (sec) 2
Next Sample
Delay (sec) 35 'StartDelay2 - Controls initial sample introduction.

FIALab1 Injection Valve Sample Inject
Autosampler Probe Up
Delay (sec) 2
Autosampler Position (#) Rinse
FIALab2 Injection Valve Sample Inject
Delay (sec) 15 'StartDelay3 - Should be set equal to LoopDelay3

Autosampler Probe Up
Delay (sec) 5 'StartDelay4 - Should be set equal to LoopDelay4

Loop Start

Analyte New Sample
Delay (sec) 1
Next Sample
Autosampler Probe Force Down

Spectrometer Reference Scan
Spectrometer Absorbance Scanning

Delay (sec) 3 ' LoopDelay1 - Controls sample transit & loop empty. Controls back baseline.

FIALab Injection Valve Sample Load

Delay (sec) 35 ' LoopDelay2 - Controls sample transit & loop fill. Controls back baseline.

FIALab1 Injection Valve Sample Inject
Autosampler Probe Up
Delay (sec) 5
Autosampler Position (#) Rinse
FIALab2 Injection Valve Sample Inject

Delay (sec) 10 ' LoopDelay3 - Controls loop empty & probe rinse time. Inverse controls front baseline.

Autosampler Probe Up

Delay (sec) 3 ' LoopDelay4 - Controls loop empty. Inverse controls front baseline.

Spectrometer Stop Scanning

Loop End

Autosampler Position (#) Rinse

Delay (sec) 20

Autosampler Probe Up

Delay (sec) 30

FIALab Peristaltic Pump Clockwise(%) 5

Autoexport Report C:\FIALab\autoreport\NOxNO2\DateTime

Message Run is Complete

Method File Location: C:\FIALab\FIALab User Files\Methods\Method_NOx+NO2.fia

Graphical report generated by FIAsoft v3.1.10

Report generated on 2025-06-20 08:59:00

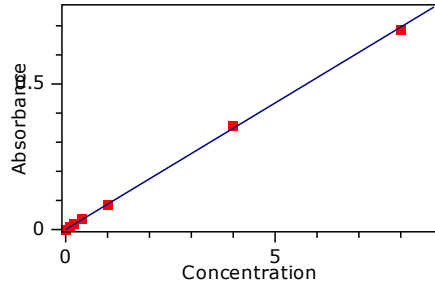
Data file (.dat): C:\FIALab\Autosave Data\2025-06-20-085827.dat

Dataset Notes:

Analyst	
---------	--

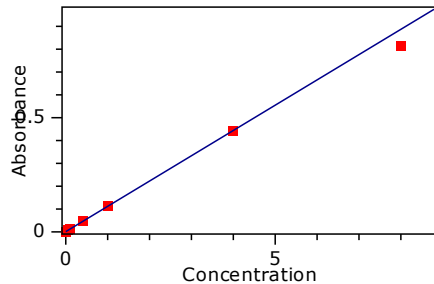
Dataset Notes Table Location: C:\FIALab\FIALab User Files\Tables\Dataset Notes\Analyst.csv

Calibrations:



Channel: 1-NOx
 Fit_Order: 1
 Weighting: 1/response
 Standard relation
 Coefficients:
 A: 0.00025
 B: 0.08691
 R^2 : 0.99974
 RSE(%): 2.03130
 % Max. for OVR: 100

InjNo	Name	Response	Known Conc. mg/L	Calc. Conc. mg/L	% Error	Time
10001	NOx 8.0ppm	0.68500	8.00000	7.87850	1.52	N/A
10002	NOx 4.0ppm	0.35430	4.00000	4.07340	1.83	N/A
10003	NOx 1.0ppm	0.08550	1.00000	0.98060	1.94	N/A
10004	NOx 0.4ppm	0.03590	0.40000	0.41050	2.61	N/A
10005	NOx 0.2ppm	0.01760	0.20000	0.19920	0.42	N/A
10006	NOx 0.1ppm	0.00890	0.10000	0.09980	0.24	N/A
10007	NOx 0.0ppm	0.00000	0.00000	-0.00270	NA	N/A



Channel: 2-NO2
 Fit_Order: 1
 Weighting: 1/response
 Standard relation
 Coefficients:
 A: 0.00114
 B: 0.11073
 R^2 : 0.99863
 RSE(%): 7.02622
 % Max. for OVR: 100

InjNo	Name	Response	Known Conc. mg/L	Calc. Conc. mg/L	% Error	Time
10001	Nitrite 8.0ppm	0.81540	8.00000	7.35360	8.08	N/A
10002	Nitrite 4.0ppm	0.44000	4.00000	3.96380	0.90	N/A
10003	Nitrite 1.0ppm	0.11530	1.00000	1.03110	3.11	N/A
10004	Nitrite 0.4ppm	0.04850	0.40000	0.42740	6.85	N/A
10005	Nitrite 0.1ppm	0.01300	0.10000	0.10730	7.31	N/A
10006	Nitrite 0.05ppm	0.00640	0.05000	0.04770	4.61	N/A
10007	Nitrite 0.0ppm	0.00040	0.00000	-0.00660	NA	N/A

Results:

Channel: 1-NOx

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
Stabil	1	Unknown	?	0.0000	1	1	1	-0.0025		2025-06-20T08:12:47
CCV NO3	2	QC	1	0.0856	1	1	1	0.9814		2025-06-20T08:13:29
CCV NO2	3	QC	?	0.0954	1	1	1	1.0952		2025-06-20T08:14:36
CCB	4	QC	0	0.0001	1	1	1	-0.0016		2025-06-20T08:15:49

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
WG2081333/339-1	5	Unknown	?	0.0000	1	1	1	-0.0029		2025-06-20T08:16:28
WG2081333/339-2	6	Unknown	?	0.4377	1	1	1	5.0332		2025-06-20T08:18:01
L2538801-01N	7	Unknown	?	0.2888	1	1	1	3.3202		2025-06-20T08:19:08
L2538801-02N	8	Unknown	?	0.0040	1	1	1	0.0426		2025-06-20T08:20:16
L2538801-03N	9	Unknown	?	0.2766	1	1	1	3.1796		2025-06-20T08:21:23
WG2081333-3	10	Unknown	?	0.2765	1	1	1	3.1781		2025-06-20T08:22:30
WG2081254-6	11	Unknown	?	0.6482	1	1	1	7.4553		2025-06-20T08:23:37
WG2081333-4	12	Unknown	?	0.6061	1	1	1	6.9714		2025-06-20T08:24:45
WG2081254-5	13	Unknown	?	0.2741	1	1	1	3.1509		2025-06-20T08:25:52
L2538801-04N	14	Unknown	?	0.2172	1	1	1	2.4962		2025-06-20T08:26:58
CCV NO3	15	QC	1	0.0841	1	1	1	0.9644		2025-06-20T08:28:05
CCV NO2	16	QC	?	0.0941	1	1	1	1.0803		2025-06-20T08:29:11
CCB	17	QC	0	0.0000	1	1	1	-0.0030		2025-06-20T08:29:56
L2538801-05N	18	Unknown	?	0.3105	1	1	1	3.5693		2025-06-20T08:31:30
L2536045-01A	19	Unknown	?	0.2349	1	1	1	2.7002		2025-06-20T08:32:38
WG2081339-3	20	Unknown	?	0.2362	1	1	1	2.7143		2025-06-20T08:33:46
WG2081339-4	21	Unknown	?	0.5827	1	1	1	6.7014		2025-06-20T08:34:52
L2536211-01B	22	Unknown	?	0.0850	1	1	1	0.9755		2025-06-20T08:35:59
L2536213-01A	23	Unknown	?	0.0024	1	1	1	0.0242		2025-06-20T08:37:07
L2536217-01B	24	Unknown	?	0.0453	1	1	1	0.5178		2025-06-20T08:38:14
L2536217-02B	25	Unknown	?	0.0215	1	1	1	0.2441		2025-06-20T08:39:22
L2536265-01B	26	Unknown	?	0.0097	1	1	1	0.1084		2025-06-20T08:40:29
L2536265-02B	27	Unknown	?	0.0236	1	1	1	0.2682		2025-06-20T08:41:36
CCV NO3	28	QC	1	0.0838	1	1	1	0.9616		2025-06-20T08:42:43
CCV NO2	29	QC	?	0.0959	1	1	1	1.1009		2025-06-20T08:43:49
CCB	30	QC	0	0.0002	1	1	1	-0.0003		2025-06-20T08:45:04
L2536265-03B	31	Unknown	?	0.0111	1	1	1	0.1248		2025-06-20T08:46:10
L2536265-04B	32	Unknown	?	0.0187	1	1	1	0.2127		2025-06-20T08:47:19
L2536370-02A	33	Unknown	?	0.3205	1	1	1	3.6847		2025-06-20T08:48:26
L2536370-04A	34	Unknown	?	0.2164	1	1	1	2.4867		2025-06-20T08:49:34
L2536370-07A	35	Unknown	?	0.2487	1	1	1	2.8584		2025-06-20T08:50:42
L2537336-02Q	36	Unknown	?	0.0573	1	1	1	0.6569		2025-06-20T08:51:49
L2537391-01H	37	Unknown	?	0.4174	1	1	1	4.7999		2025-06-20T08:52:56

Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
CCV NO3	38	QC	1	0.0824	1	1	1	0.9453		2025-06-20T08:54:02
CCV NO2	39	QC	?	0.0969	1	1	1	1.1121		2025-06-20T08:55:09
CCB	40	QC	0	-0.0001	1	1	1	-0.0038		2025-06-20T08:56:24

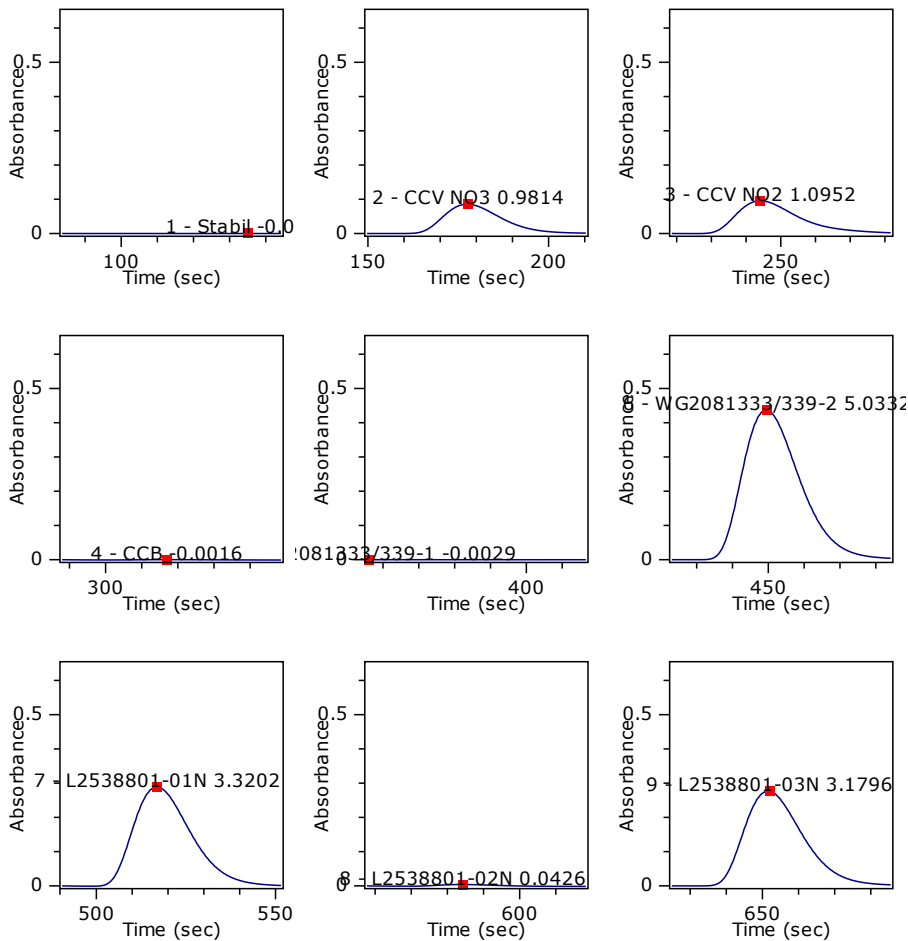
Channel: 2-NO2

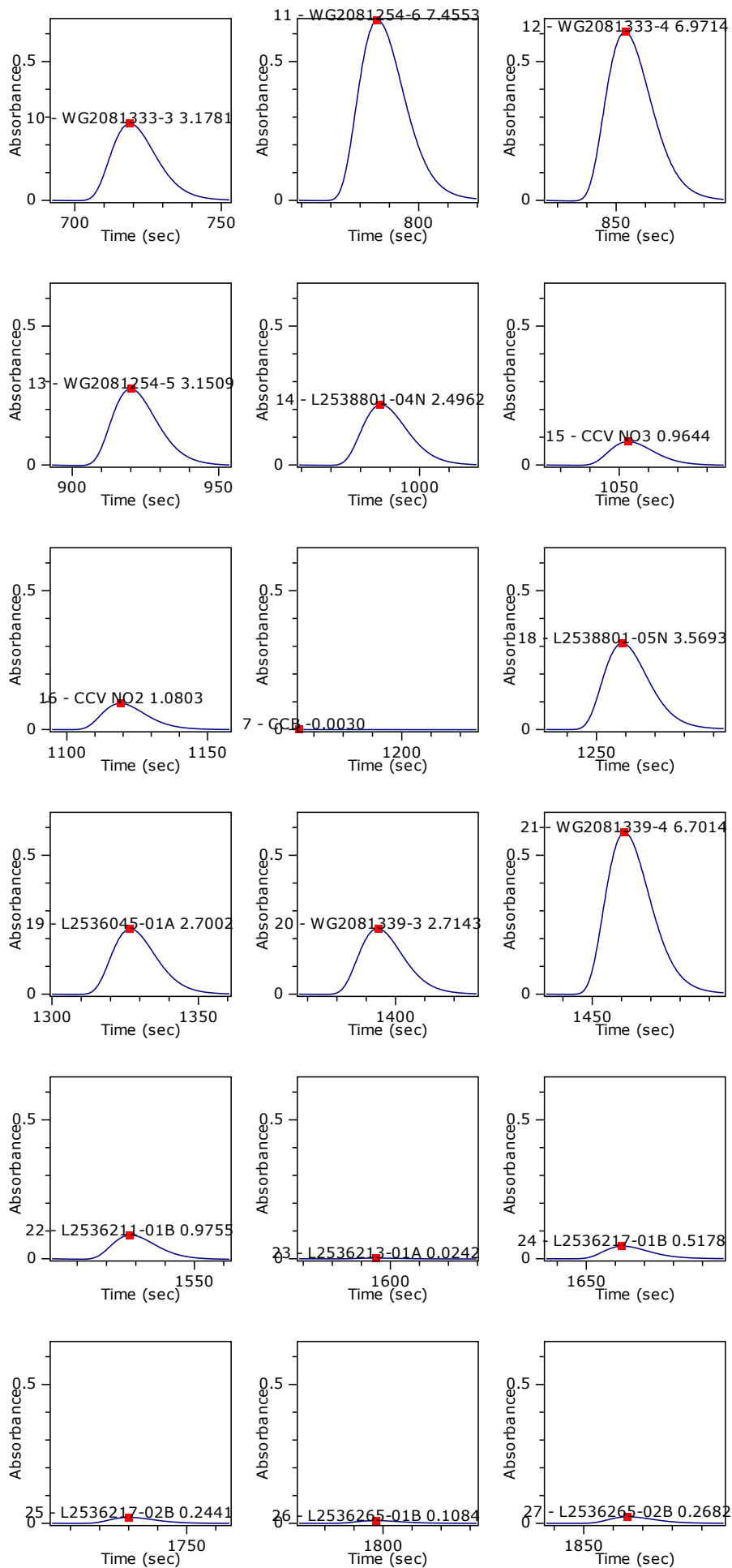
Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
Stabil	1	Unknown	?	0.0001	1	1	1	-0.0091		2025-06-20T08:12:04
CCV NO3	2	QC	?	0.0002	1	1	1	-0.0089		2025-06-20T08:13:18
CCV NO2	3	QC	1	0.1128	1	1	1	1.0086		2025-06-20T08:14:23
CCB	4	QC	0	0.0013	1	1	1	0.0011		2025-06-20T08:15:40
WG2081333/339-1	5	Unknown	?	0.0001	1	1	1	-0.0094		2025-06-20T08:16:41
WG2081333/339-2	6	Unknown	?	0.0001	1	1	1	-0.0094		2025-06-20T08:17:54
L2538801-01N	7	Unknown	?	0.0008	1	1	1	-0.0031		2025-06-20T08:18:56
L2538801-02N	8	Unknown	?	0.0030	1	1	1	0.0165		2025-06-20T08:20:02
L2538801-03N	9	Unknown	?	0.0128	1	1	1	0.1056		2025-06-20T08:21:10
WG2081333-3	10	Unknown	?	0.0128	1	1	1	0.1057		2025-06-20T08:22:17
WG2081254-6	11	Unknown	?	0.4796	1	1	1	4.3213		2025-06-20T08:23:24
WG2081333-4	12	Unknown	?	0.0124	1	1	1	0.1018		2025-06-20T08:24:31
WG2081254-5	13	Unknown	?	0.0123	1	1	1	0.1011		2025-06-20T08:25:38
L2538801-04N	14	Unknown	?	0.0009	1	1	1	-0.0025		2025-06-20T08:26:46
CCV NO3	15	QC	?	0.0002	1	1	1	-0.0089		2025-06-20T08:27:54
CCV NO2	16	QC	1	0.1107	1	1	1	0.9897		2025-06-20T08:28:57
CCB	17	QC	0	0.0000	1	1	1	-0.0099		2025-06-20T08:30:11
L2538801-05N	18	Unknown	?	0.0097	1	1	1	0.0770		2025-06-20T08:31:17
L2536045-01A	19	Unknown	?	0.0012	1	1	1	0.0007		2025-06-20T08:32:25
WG2081339-3	20	Unknown	?	0.0013	1	1	1	0.0013		2025-06-20T08:33:32
WG2081339-4	21	Unknown	?	0.0013	1	1	1	0.0011		2025-06-20T08:34:39
L2536211-01B	22	Unknown	?	0.0013	1	1	1	0.0012		2025-06-20T08:35:46
L2536213-01A	23	Unknown	?	0.0016	1	1	1	0.0045		2025-06-20T08:36:55
L2536217-01B	24	Unknown	?	0.0187	1	1	1	0.1590		2025-06-20T08:38:02
L2536217-02B	25	Unknown	?	0.0015	1	1	1	0.0028		2025-06-20T08:39:09
L2536265-01B	26	Unknown	?	0.0016	1	1	1	0.0041		2025-06-20T08:40:16
L2536265-02B	27	Unknown	?	0.0012	1	1	1	0.0009		2025-06-20T08:41:23
CCV NO3	28	QC	?	0.0002	1	1	1	-0.0085		2025-06-

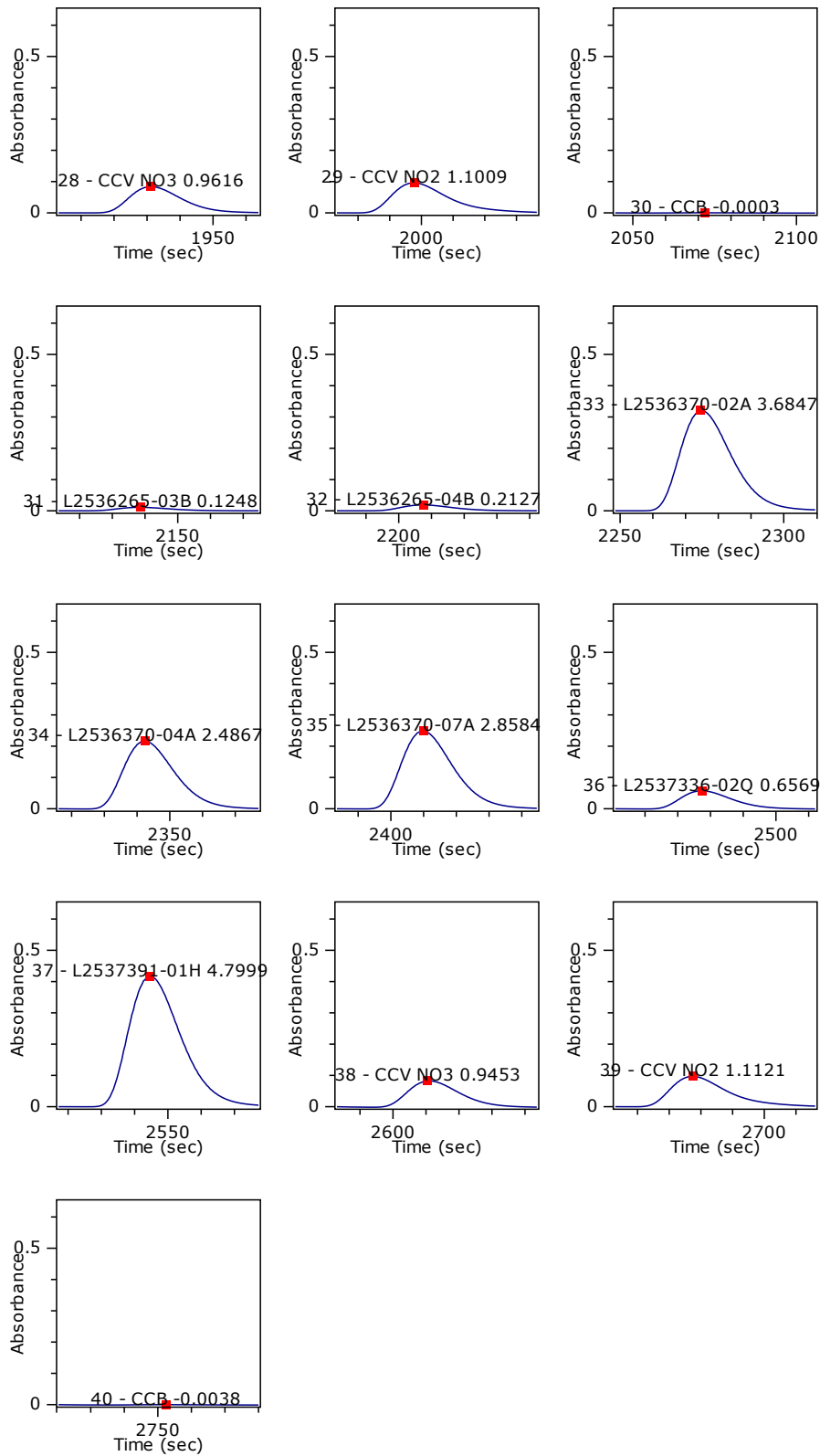
Name	Inj. No.	Type	Known Conc. mg/L	Response	MDF	ADF	Weight	Calc. Conc. mg/L	Flags	Time
										20T08:42:37
CCV NO2	29	QC	1	0.1109	1	1	1	0.9910		2025-06-20T08:43:35
CCB	30	QC	0	0.0012	1	1	1	0.0002		2025-06-20T08:44:53
L2536265-03B	31	Unknown	?	0.0007	1	1	1	-0.0040		2025-06-20T08:45:57
L2536265-04B	32	Unknown	?	0.0007	1	1	1	-0.0036		2025-06-20T08:47:06
L2536370-02A	33	Unknown	?	0.0018	1	1	1	0.0061		2025-06-20T08:48:12
L2536370-04A	34	Unknown	?	0.0017	1	1	1	0.0055		2025-06-20T08:49:20
L2536370-07A	35	Unknown	?	0.0017	1	1	1	0.0054		2025-06-20T08:50:27
L2537336-02Q	36	Unknown	?	0.0044	1	1	1	0.0298		2025-06-20T08:51:37
L2537391-01H	37	Unknown	?	0.0033	1	1	1	0.0192		2025-06-20T08:52:44
CCV NO3	38	QC	?	0.0001	1	1	1	-0.0092		2025-06-20T08:53:59
CCV NO2	39	QC	1	0.1118	1	1	1	0.9996		2025-06-20T08:54:56
CCB	40	QC	0	0.0015	1	1	1	0.0035		2025-06-20T08:56:13

Peaks:

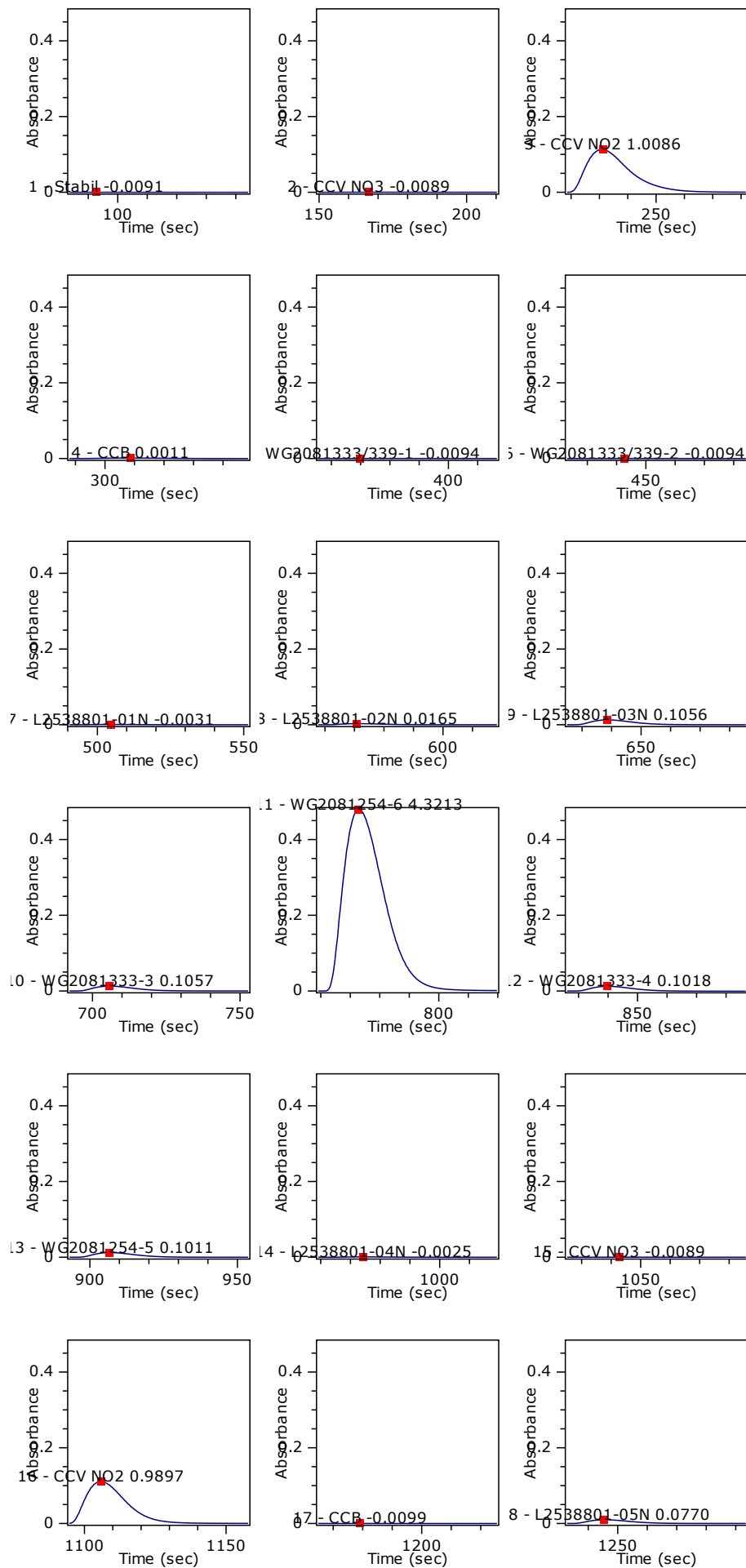
Channel: 1-NOx

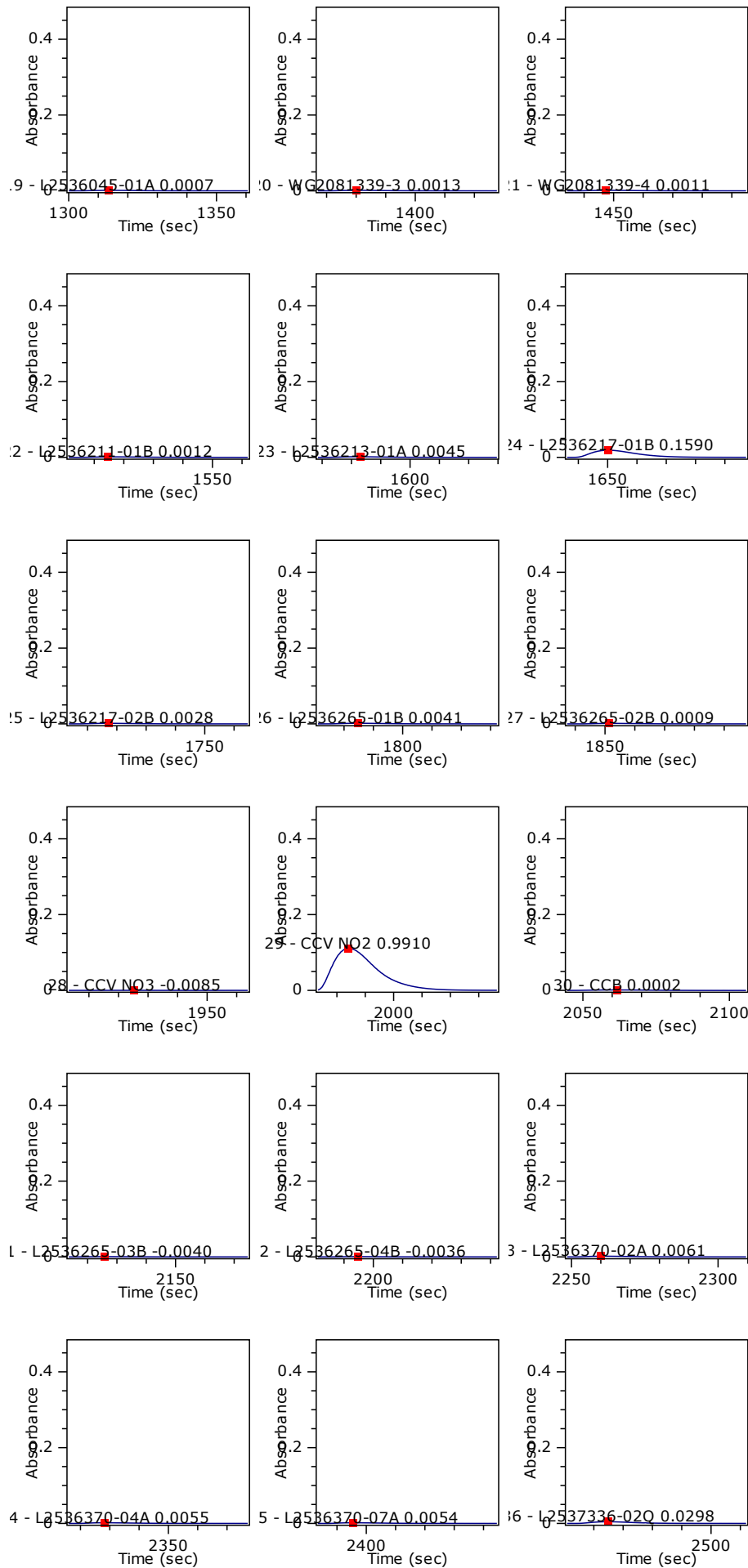


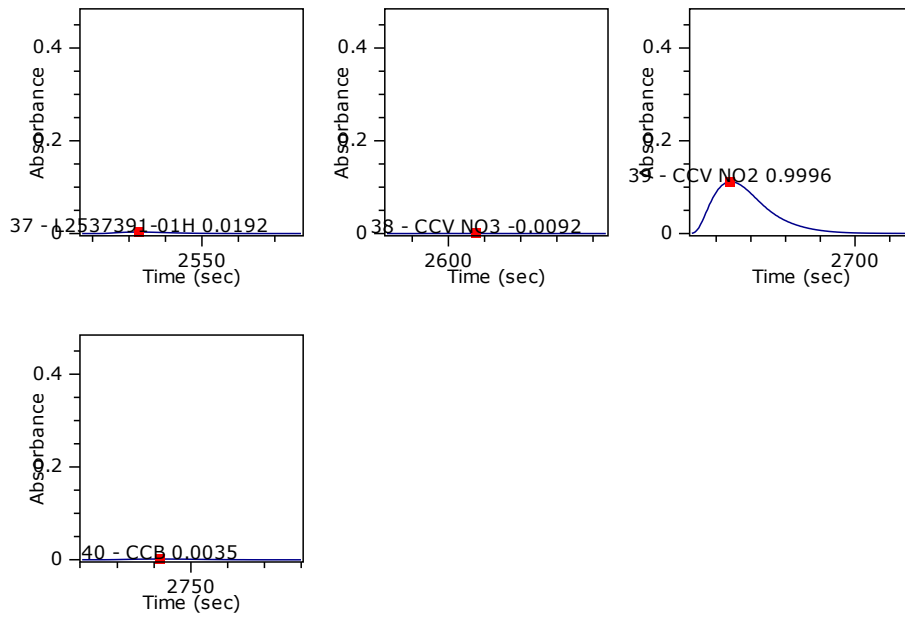




Channel: 2-NO2







Data Processing Parameters:

Channel: 1-NOx

Response parameter	Peak Height
Filter Type	None
Filter Window	3
Enable Peak Window	False
Peak Window Start	0
Peak Window Stop	0
Enable Baseline Correction	False
Enable 2 Point Correction	False
Baseline Start	0
Baseline Stop	0
Point 2 Baseline Start	0
Point 2 Baseline Stop	0
Background Correction	Single Wavelength
Ref Wavelength 1	600
Ref Wavelength 2	0

Channel: 2-NO2

Response parameter	Peak Height
Filter Type	None
Filter Window	3
Enable Peak Window	False
Peak Window Start	0
Peak Window Stop	0
Enable Baseline Correction	False
Enable 2 Point Correction	False
Baseline Start	0
Baseline Stop	0
Point 2 Baseline Start	0
Point 2 Baseline Stop	0
Background Correction	Single Wavelength
Ref Wavelength 1	600
Ref Wavelength 2	0

Method Log:

FIAsoft FIAsoft v3.1.10

FIAlyzer Settings

FIAlab1 Serial Number: FIA31428

FIAlab2 Serial Number: FIA31429

Pump: Connected on COM8

Spectrometer Settings

Spectrometer1

Spectrometer Type: tec5

Integration Time: 5.5

Bandwidth: 2

Data Acq Rate: 2

Use Full Spectrum: False

|--- Low: 500nm

|--- High: 650nm

Reduce to Boxcar: True

Spectrometer2

Spectrometer Type: tec5

Integration Time: 5.2

Bandwidth: 2

Data Acq Rate: 2

Use Full Spectrum: False

|--- Low: 500nm

|--- High: 650nm

Reduce to Boxcar: True

Start Time

2025-06-20T08:10:32

Method

' Method Script for NOx-NO2

Autosave Data C:\FIALab\Autosave Data\DateTime

FIALab Injection Valve Sample Load

Message Cadmium Column on for NOx

FIALab Peristaltic Pump Clockwise(%) 55

Autosampler Wash

Delay (sec) 2

Next Sample

Delay (sec) 35 'StartDelay2 - Controls initial sample introduction.

FIALab1 Injection Valve Sample Inject

Autosampler Probe Up

Delay (sec) 2

Autosampler Position (#) Rinse

FIALab2 Injection Valve Sample Inject

Delay (sec) 15 'StartDelay3 - Should be set equal to LoopDelay3

Autosampler Probe Up

Delay (sec) 5 'StartDelay4 - Should be set equal to LoopDelay4

Loop Start

Analyte New Sample

Delay (sec) 1

Next Sample

Autosampler Probe Force Down

Spectrometer Reference Scan

Spectrometer Absorbance Scanning

Delay (sec) 3 ' LoopDelay1 - Controls sample transit & loop empty. Controls back baseline.

FIALab Injection Valve Sample Load

Delay (sec) 35 ' LoopDelay2 - Controls sample transit & loop fill. Controls back baseline.

FIALab1 Injection Valve Sample Inject
Autosampler Probe Up
Delay (sec) 5
Autosampler Position (#) Rinse
FIALab2 Injection Valve Sample Inject

Delay (sec) 10 ' LoopDelay3 - Controls loop empty & probe rinse time. Inverse controls front baseline.

Autosampler Probe Up

Delay (sec) 3 ' LoopDelay4 - Controls loop empty. Inverse controls front baseline.

Spectrometer Stop Scanning

Loop End

Autosampler Position (#) Rinse
Delay (sec) 20
Autosampler Probe Up
Delay (sec) 30
FIALab Peristaltic Pump Clockwise(%) 5
Autoexport Report C:\FIALab\autoreport\NOxNO2\DateTime
Message Run is Complete

Method File Location: C:\FIALab\FIALab User Files\Methods\Method_NOx+NO2.fia

Quality Control

Form 5a Matrix Spike

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : MW-12D
 Lab Sample ID : L2538382-06
 Matrix Spike : WG2081255-4
 Matrix Spike Dup :

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Matrix : WATER

MS Analysis Date : 06/20/25 03:17
 MSD Analysis Date :

Parameter	Sample Conc. (mg/l)	Matrix Spike Sample		%R	Matrix Spike Duplicate		%R	RPD	Recovery Limits	RPD Limit
		Spike Added (mg/l)	Spike Conc. (mg/l)		Spike Added (mg/l)	Spike Conc. (mg/l)				
Nitrogen, Nitrite	ND	4	4.16	104					80-120	20



Form 5a Matrix Spike

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : MW-12D
 Lab Sample ID : L2538382-06
 Matrix Spike : WG2081258-4
 Matrix Spike Dup :

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Matrix : WATER
 MS Analysis Date : 06/20/25 05:35
 MSD Analysis Date :

Parameter	Sample Conc. (mg/l)	Matrix Spike Sample		%R	Matrix Spike Duplicate		%R	RPD	Recovery Limits	RPD Limit
		Spike Added (mg/l)	Spike Conc. (mg/l)		Spike Added (mg/l)	Spike Conc. (mg/l)				
Nitrogen, Nitrate	4.46	4	8.29	96					83-113	17



Form 5a Matrix Spike

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : MW-12D
 Lab Sample ID : L2538382-06
 Matrix Spike : WG2081262-4
 Matrix Spike Dup :

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Matrix : WATER
 MS Analysis Date : 06/20/25 05:35
 MSD Analysis Date :

Parameter	Sample Conc. (mg/l)	Matrix Spike Sample		%R	Matrix Spike Duplicate		%R	RPD	Recovery Limits	RPD Limit
		Spike Added (mg/l)	Spike Conc. (mg/l)		Spike Added (mg/l)	Spike Conc. (mg/l)				
Nitrogen, Nitrate/Nitrite	4.5	4	8.3	95					80-120	20

Form 6 Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Client Sample ID	: MW-12D	Matrix	: WATER
Lab Sample ID	: L2538382-06	Analysis Date	: 06/20/25 03:32
Dup Sample ID	: WG2081255-3	DUP Analysis Date	: 06/20/25 03:13

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Nitrogen, Nitrite	ND	ND	NC	20



Form 6 Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Client Sample ID	: MW-12D	Matrix	: WATER
Lab Sample ID	: L2538382-06	Analysis Date	: 06/20/25 03:32
Dup Sample ID	: WG2081258-3	DUP Analysis Date	: 06/20/25 03:33

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Nitrogen, Nitrate	4.46	4.45	0	17



Form 6 Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Client Sample ID	: MW-12D	Matrix	: WATER
Lab Sample ID	: L2538382-06	Analysis Date	: 06/20/25 03:32
Dup Sample ID	: WG2081262-3	DUP Analysis Date	: 06/20/25 03:33

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Nitrogen, Nitrate/Nitrite	4.5	4.4	2	20



Form 7

Laboratory Control Sample

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : NA
 Lab Sample ID : WG2081255-2
 Dup Sample ID :

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Matrix : WATER
 LCS Analysis Date : 06/20/25 02:54
 LCSD Analysis Date :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R			
Nitrogen, Nitrite	5.00	4.89	98.					90-110	20

Form 7

Laboratory Control Sample

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : NA
 Lab Sample ID : WG2081258-2
 Dup Sample ID :

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Matrix : WATER
 LCS Analysis Date : 06/20/25 03:05
 LCSD Analysis Date :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R			
Nitrogen, Nitrate	5.00	5.03	101.					90-110	17

Form 7

Laboratory Control Sample

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : NA
 Lab Sample ID : WG2081262-2
 Dup Sample ID :

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Matrix : WATER
 LCS Analysis Date : 06/20/25 03:05
 LCSD Analysis Date :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R			
Nitrogen, Nitrate/Nitrite	5.00	5.00	100.					90-110	20

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

[illegible]

Please Note that the RL Information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the Information provided in this table is subject to change at anytime at the discretion of the laboratory.

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

[illegible]

Please Note that the RL Information provided in this table is calculated using a 100% Solids factor. (Soll/Solids only)
Please Note that the Information provided in this table is subject to change at anytime at the discretion of the laboratory.

Calculations of Nitrogen, Nitrate

Aqueous Samples:

Compute sample N in NO₃ concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

Calculate results by using reading on Channel 1 (NO₃+NO₂) and Channel 2 (NO₂)

$$\text{NO}_3 \text{ mg/I} = (\text{NO}_3 + \text{NO}_2) \text{ mg/L} - (\text{NO}_2) \text{ mg/L}$$

To compute final results for aqueous samples, multiply the direct reading by the dilution factor (also done using software)

$$(\text{NO}_3)\text{-N mg/L} = \text{mg/L direct reading} \times \text{dilution factor}$$

Calculations of Nitrogen, Nitrite

Aqueous Samples:

Compute sample N in NO₂ concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

Calculate results by using reading on Channel 2 (NO₂)

To compute final results for aqueous samples, multiply the direct reading by the dilution factor (also done using software)

$$(\text{NO}_2)\text{-N mg/L} = \text{mg/L direct reading} \times \text{dilution factor}$$

Sequence Logs

Graphical report generated by FIAsoft v3.1.10

Report generated on 2025-06-20 07:20:45

Data file (.dat): C:\FIALab\Autosave Data\2025-06-20-071959.dat

Dataset Notes:

Analyst	
---------	--

Dataset Notes Table Location: C:\FIALab\FIALab User Files\Tables\Dataset Notes\Analyst.csv

Sample Table:

Injection No	Sample Name	Rack Position	Sample Type	Level	MDF	ADF	Weight	Comment
1	Stabil	RS10	Unknown	0	1	1	1	
2	NOx 8.0ppm	RD76	Standard	1	1	1	1	
3	NOx 4.0ppm	RD77	Standard	2	1	1	1	
4	NOx 1.0ppm	RS1	Standard	3	1	1	1	
5	NOx 0.4ppm	RD78	Standard	4	1	1	1	
6	NOx 0.2ppm	RD79	Standard	5	1	1	1	
7	NOx 0.1ppm	RD80	Standard	6	1	1	1	
8	NOx 0.0ppm	RS10	Standard	7	1	1	1	
9	Nitrite 8.0ppm	RD81	Standard	8	1	1	1	
10	Nitrite 4.0ppm	RD82	Standard	9	1	1	1	
11	Nitrite 1.0ppm	RS2	Standard	10	1	1	1	
12	Nitrite 0.4ppm	RD83	Standard	11	1	1	1	
13	Nitrite 0.1ppm	RD84	Standard	13	1	1	1	
14	Nitrite 0.05ppm	RD85	Standard	14	1	1	1	
15	Nitrite 0.0ppm	RS10	Standard	15	1	1	1	
16	CCV NO3	RS1	QC	94	1	1	1	
17	CCV NO2	RS2	QC	95	1	1	1	
18	CCB	RS10	QC	96	1	1	1	
19	ICV NO3 5.0	RA1	QC	90	1	1	1	
20	ICV NO2 5.0	RA2	QC	92	1	1	1	
21	ICV NO3 0.5	RA3	QC	91	1	1	1	
22	ICV NO2 0.5	RA4	QC	93	1	1	1	
23	ICB	RA5	QC	96	1	1	1	
24	BLANK NO3	RA7	Unknown	0	1	1	1	
25	LCS NO3	RA8	Unknown	0	1	1	1	
26	BLANK NO2	RA9	Unknown	0	1	1	1	
27	LCS NO2	RA10	Unknown	0	1	1	1	
28	CCV NO3	RS1	QC	94	1	1	1	
29	CCV NO2	RS2	QC	95	1	1	1	
30	CCB	RS10	QC	96	1	1	1	
31	WG2081253-1	RA11	Unknown	0	1	1	1	
32	WG2081253-2	RA12	Unknown	0	1	1	1	

Injection No	Sample Name	Rack Position	Sample Type	Level	MDF	ADF	Weight	Comment
33	WG2081254-1	RA13	Unknown	0	1	1	1	
34	WG2081254-2	RA14	Unknown	0	1	1	1	
35	WG2081255-1	RA15	Unknown	0	1	1	1	
36	WG2081255-2	RA16	Unknown	0	1	1	1	
37	WG2081256-1	RA17	Unknown	0	1	1	1	
38	WG2081255-1	RA15	Unknown	0	1	1	1	
39	WG2081256-2	RA18	Unknown	0	1	1	1	
40	WG2081257-1	RA19	Unknown	0	1	1	1	
41	CCV NO3	RS1	QC	94	1	1	1	
42	CCV NO2	RS2	QC	95	1	1	1	
43	CCB	RS10	QC	96	1	1	1	
44	WG2081257-2	RA20	Unknown	0	1	1	1	
45	WG2081258/262-1	RA21	Unknown	0	1	1	1	
46	WG2081258/262-2	RA22	Unknown	0	1	1	1	
47	WG2081259-1	RA23	Unknown	0	1	1	1	
48	WG2081259-2	RA24	Unknown	0	1	1	1	
49	WG2081260/261-1	RA25	Unknown	0	1	1	1	
50	WG2081260/261-2	RA26	Unknown	0	1	1	1	
51	L2538198-01A	RA27	Unknown	0	1	1	1	
52	L2538198-02A	RA28	Unknown	0	1	1	1	
53	WG2081255-3	RA40	Unknown	0	1	1	1	
54	CCV NO3	RS1	QC	94	1	1	1	
55	CCV NO2	RS2	QC	95	1	1	1	
56	CCB	RS10	QC	96	1	1	1	
57	WG2081255-4	RA41	Unknown	0	1	1	1	
58	L2538198-02A; 5 UP TO 25	RA29	Unknown	0	5	1	1	
59	L2538199-01A	RA30	Unknown	0	1	1	1	
60	L2538199-02A	RA31	Unknown	0	1	1	1	
61	L2538198-02A; 5 UP TO 25	RA29	Unknown	0	5	1	1	
62	L2538382-01M	RA32	Unknown	0	1	1	1	
63	L2538382-02M	RA33	Unknown	0	1	1	1	
64	L2538382-03M	RA34	Unknown	0	1	1	1	
65	L2538382-04M	RA35	Unknown	0	1	1	1	
66	L2538382-05M	RA36	Unknown	0	1	1	1	
67	CCV NO3	RS1	QC	94	1	1	1	
68	CCV NO2	RS2	QC	95	1	1	1	
69	CCB	RS10	QC	96	1	1	1	
70	L2538382-06L	RA37	Unknown	0	1	1	1	
71	WG2081258/262-3	RA38	Unknown	0	1	1	1	

WG2081299-1
WG2081299-2

Injection No	Sample Name	Rack Position	Sample Type	Level	MDF	ADF	Weight	Comment
72	WG2081258/262-4	RA39	Unknown	0	1	1	1	
73	L2538382-07M	RA42	Unknown	0	1	1	1	
74	L2538630-02A	RA43	Unknown	0	1	1	1	
75	L2538790-03A	RA44	Unknown	0	1	1	1	
76	L2538790-04A	RA45	Unknown	0	1	1	1	
77	L2538434-01J	RA46	Unknown	0	1	1	1	
78	WG2081259-3	RA47	Unknown	0	1	1	1	
79	WG2081259-4	RA48	Unknown	0	1	1	1	
80	CCV NO3	RS1	QC	94	1	1	1	
81	CCV NO2	RS2	QC	95	1	1	1	
82	CCB	RS10	QC	96	1	1	1	
83	L2538434-02J	RA49	Unknown	0	1	1	1	
84	L2538434-03J	RA50	Unknown	0	1	1	1	
85	L2538434-04J	RA51	Unknown	0	1	1	1	
86	L2538434-05J	RA52	Unknown	0	1	1	1	
87	L2538434-06J	RA53	Unknown	0	1	1	1	
88	L2538434-07J	RA54	Unknown	0	1	1	1	
89	L2538434-08J	RA55	Unknown	0	1	1	1	
90	L2538434-09J	RA56	Unknown	0	1	1	1	
91	L2538434-10J	RA57	Unknown	0	1	1	1	
92	L2538434-11J	RA58	Unknown	0	1	1	1	
93	CCV NO3	RS1	QC	94	1	1	1	
94	CCV NO2	RS2	QC	95	1	1	1	
95	CCB	RS10	QC	96	1	1	1	
96	L2538434-12J	RA59	Unknown	0	1	1	1	
97	L2538434-13J	RA60	Unknown	0	1	1	1	
98	L2538434-14J	RA61	Unknown	0	1	1	1	
99	L2538525-01L	RA62	Unknown	0	1	1	1	
100	WG2081257-5	RA63	Unknown	0	1	1	1	
101	WG2081257-6	RA64	Unknown	0	1	1	1	
102	L2538525-02L	RA65	Unknown	0	1	1	1	
103	L2538525-03L	RA66	Unknown	0	1	1	1	
104	L2538525-04L	RA67	Unknown	0	1	1	1	
105	L2538525-05L	RA68	Unknown	0	1	1	1	
106	CCV NO3	RS1	QC	94	1	1	1	
107	CCV NO2	RS2	QC	95	1	1	1	
108	CCB	RS10	QC	96	1	1	1	
109	L2538525-06L	RA69	Unknown	0	1	1	1	
110	L2538595-01C	RA70	Unknown	0	1	1	1	
111	L2538821-01B	RA71	Unknown	0	1	1	1	

Injection No	Sample Name	Rack Position	Sample Type	Level	MDF	ADF	Weight	Comment
112	WG2081257-3	RA72	Unknown	0	1	1	1	
113	WG2081254-4	RA75	Unknown	0	1	1	1	
114	WG2081257-4	RA73	Unknown	0	1	1	1	
115	WG2081254-3	RA74	Unknown	0	1	1	1	
116	L2538821-02B	RA76	Unknown	0	1	1	1	
117	L2538829-02B	RA77	Unknown	0	1	1	1	
118	L2538832-01B	RA78	Unknown	0	1	1	1	
119	CCV NO3	RS1	QC	94	1	1	1	
120	CCV NO2	RS2	QC	95	1	1	1	
121	CCB	RS10	QC	96	1	1	1	
122	L2538832-02B	RA79	Unknown	0	1	1	1	
123	L2538833-01B	RA80	Unknown	0	1	1	1	
124	L2538834-01A	RA81	Unknown	0	1	1	1	
125	L2538834-02A	RA82	Unknown	0	1	1	1	
126	L2538840-01B	RA83	Unknown	0	1	1	1	
127	L2538840-02B	RA84	Unknown	0	1	1	1	
128	L2538378-01A	RA85	Unknown	0	1	1	1	
129	L2538438-01J	RA86	Unknown	0	1	1	1	
130	WG2081253-4	RA90	Unknown	0	1	1	1	
131	WG2081256-4	RA88	Unknown	0	1	1	1	
132	CCV NO3	RS1	QC	94	1	1	1	
133	CCV NO2	RS2	QC	95	1	1	1	
134	CCB	RS10	QC	96	1	1	1	
135	WG2081256-3	RA87	Unknown	0	1	1	1	
136	WG2081253-3	RA89	Unknown	0	1	1	1	
137	L2538529-01H; 5 UP TO 25	RB1	Unknown	0	5	1	1	
138	WG2081256-6	RB5	Unknown	0	1	1	1	
139	WG2081253-5	RB6	Unknown	0	1	1	1	
140	L2538529-01H; 1 UP TO 50	RB2	Unknown	0	50	1	1	
141	L2538604-01D	RB3	Unknown	0	1	1	1	
142	WG2081256-5	RB4	Unknown	0	1	1	1	
143	WG2081253-6	RB7	Unknown	0	1	1	1	
144	L2538604-02D	RB8	Unknown	0	1	1	1	
145	CCV NO3	RS1	QC	94	1	1	1	
146	CCV NO2	RS2	QC	95	1	1	1	
147	CCB	RS10	QC	96	1	1	1	
148	L2538604-03D	RB9	Unknown	0	1	1	1	
149	L2538604-04D	RB10	Unknown	0	1	1	1	
150	L2538604-05D	RB11	Unknown	0	1	1	1	

Injection No	Sample Name	Rack Position	Sample Type	Level	MDF	ADF	Weight	Comment
151	L2538604-06D	RB12	Unknown	0	1	1	1	
152	L2538604-07D	RB13	Unknown	0	1	1	1	
153	L2538604-08D	RB14	Unknown	0	1	1	1	
154	L2538604-09D	RB15	Unknown	0	1	1	1	
155	L2538604-10D	RB16	Unknown	0	1	1	1	
156	L2538604-11D	RB17	Unknown	0	1	1	1	
157	L2538604-12D	RB18	Unknown	0	1	1	1	
158	CCV NO3	RS1	QC	94	1	1	1	
159	CCV NO2	RS2	QC	95	1	1	1	
160	CCB	RS10	QC	96	1	1	1	
161	L2538604-13D	RB19	Unknown	0	1	1	1	
162	L2538604-14D	RB20	Unknown	0	1	1	1	
163	L2538604-15D	RB21	Unknown	0	1	1	1	
164	L2538604-16D	RB22	Unknown	0	1	1	1	
165	L2538604-17D	RB23	Unknown	0	1	1	1	
166	L2538314-01V	RB24	Unknown	0	1	1	1	
167	WG2081260/261-3	RB25	Unknown	0	1	1	1	
168	WG2081260/261-4	RB26	Unknown	0	1	1	1	
169	L2538466-01A	RB27	Unknown	0	1	1	1	
170	L2538466-02A	RB28	Unknown	0	1	1	1	
171	CCV NO3	RS1	QC	94	1	1	1	
172	CCV NO2	RS2	QC	95	1	1	1	
173	CCB	RS10	QC	96	1	1	1	
174	L2538678-01B	RB29	Unknown	0	1	1	1	
175	L2538678-02B	RB30	Unknown	0	1	1	1	
176	L2538382-07M	RA42	Unknown	0	1	1	1	
177	L2538821-01B	RA71	Unknown	0	1	1	1	
178	L2538834-01A	RA81	Unknown	0	1	1	1	
179	L2538378-01A	RA85	Unknown	0	1	1	1	
180	WG2081256-6	RB5	Unknown	0	1	1	1	
181	WG2081258/262-4; 5 UP TO 25	RB31	Unknown	0	5	1	1	
182	L2538595-01C; 5 UP TO 25	RB32	Unknown	0	5	1	1	
183	L2538832-01B; 5 UP TO 25	RB33	Unknown	0	5	1	1	
184	CCV NO3	RS1	QC	94	1	1	1	
185	CCV NO2	RS2	QC	95	1	1	1	
186	CCB	RS10	QC	96	1	1	1	
187	L2538832-02B; 5 UP TO 25	RB34	Unknown	0	5	1	1	
188	L2538833-01B; 5	RB35	Unknown	0	5	1	1	

Injection No	Sample Name	Rack Position	Sample Type	Level	MDF	ADF	Weight	Comment
	UP TO 25							
189	L2538840-01B; 5 UP TO 25	RB36	Unknown	0	5	1	1	
190	L2538840-02B; 5 UP TO 25	RB37	Unknown	0	5	1	1	
191	L2538599-01L	RB38	Unknown	0	1	1	1	
192	L2538599-02L	RB39	Unknown	0	1	1	1	
193	L2538767-01J	RB40	Unknown	0	1	1	1	
194	L2538767-02K	RB41	Unknown	0	1	1	1	
195	L2538767-03K	RB42	Unknown	0	1	1	1	
196	L2538767-04K	RB43	Unknown	0	1	1	1	
197	CCV NO3	RS1	QC	94	1	1	1	
198	CCV NO2	RS2	QC	95	1	1	1	
199	CCB	RS10	QC	96	1	1	1	
200	L2538767-05K	RB44	Unknown	0	1	1	1	
201	L2538788-01G	RB45	Unknown	0	1	1	1	
202	WG2081299-3	RB46	Unknown	0	1	1	1	
203	WG2081299-4	RB47	Unknown	0	1	1	1	
204	L2538788-02G	RB48	Unknown	0	1	1	1	
205	L2538788-03G	RB49	Unknown	0	1	1	1	
206	L2538788-04G	RB50	Unknown	0	1	1	1	
207	L2538788-05G	RB51	Unknown	0	1	1	1	
208	L2538788-06G	RB52	Unknown	0	1	1	1	
209	L2538788-07G	RB53	Unknown	0	1	1	1	
210	CCV NO3	RS1	QC	94	1	1	1	
211	CCV NO2	RS2	QC	95	1	1	1	
212	CCB	RS10	QC	96	1	1	1	
213	L2538788-08G	RB54	Unknown	0	1	1	1	
214	L2538788-09G	RB55	Unknown	0	1	1	1	
215	L2538788-10G	RB56	Unknown	0	1	1	1	
216	L2538853-01K	RB57	Unknown	0	1	1	1	
217	L2538853-02K	RB58	Unknown	0	1	1	1	
218	WG2081302-1	RB59	Unknown	0	1	1	1	
219	WG2081302-2	RB60	Unknown	0	1	1	1	
220	L2538855-04K	RB61	Unknown	0	1	1	1	
221	WG2081302-3	RB62	Unknown	0	1	1	1	
222	WG2081302-4	RB63	Unknown	0	1	1	1	
223	CCV NO3	RS1	QC	94	1	1	1	
224	CCV NO2	RS2	QC	95	1	1	1	
225	CCB	RS10	QC	96	1	1	1	
226	L2538855-05K	RB64	Unknown	0	1	1	1	

Injection No	Sample Name	Rack Position	Sample Type	Level	MDF	ADF	Weight	Comment
227	L2538855-06K	RB65	Unknown	0	1	1	1	
228	L2538855-07K	RB66	Unknown	0	1	1	1	
229	L2538855-08K	RB67	Unknown	0	1	1	1	
230	L2538855-09K	RB68	Unknown	0	1	1	1	
231	L2538855-11K	RB69	Unknown	0	1	1	1	
232	L2538855-12K	RB70	Unknown	0	1	1	1	
233	L2538855-13K	RB71	Unknown	0	1	1	1	
234	L2538855-14K	RB72	Unknown	0	1	1	1	
235	L2538855-15K	RB73	Unknown	0	1	1	1	
236	CCV NO3	RS1	QC	94	1	1	1	
237	CCV NO2	RS2	QC	95	1	1	1	
238	CCB	RS10	QC	96	1	1	1	
239	L2538855-16N	RB74	Unknown	0	1	1	1	
240	CCV NO3	RS1	QC	94	1	1	1	
241	CCV NO2	RS2	QC	95	1	1	1	
242	CCB	RS10	QC	96	1	1	1	

Sample Table Location: C:\FIALab\FIALab User Files\Tables\Sample Tables\NITRATE SAMPLES 250509.csv

Graphical report generated by FIAsoft v3.1.10

Report generated on 2025-06-20 08:59:13

Data file (.dat): C:\FIALab\Autosave Data\2025-06-20-085827.dat

Dataset Notes:

Analyst	
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Dataset Notes Table Location: C:\FIALab\FIALab User Files\Tables\Dataset Notes\Analyst.csv

Sample Table:

Injection No	Sample Name	Rack Position	Sample Type	Level	MDF	ADF	Weight	Comment
1	Stabil	RS10	Unknown	0	1	1	1	
2	CCV NO3	RS1	QC	94	1	1	1	
3	CCV NO2	RS2	QC	95	1	1	1	
4	CCB	RS10	QC	96	1	1	1	
5	WG2081333/339-1	RB75	Unknown	0	1	1	1	
6	WG2081333/339-2	RB76	Unknown	0	1	1	1	
7	L2538801-01N	RB77	Unknown	0	1	1	1	
8	L2538801-02N	RB78	Unknown	0	1	1	1	
9	L2538801-03N	RB79	Unknown	0	1	1	1	
10	WG2081333-3	RB80	Unknown	0	1	1	1	
11	WG2081254-6	RB83	Unknown	0	1	1	1	
12	WG2081333-4	RB81	Unknown	0	1	1	1	
13	WG2081254-5	RB82	Unknown	0	1	1	1	
14	L2538801-04N	RB84	Unknown	0	1	1	1	
15	CCV NO3	RS1	QC	94	1	1	1	
16	CCV NO2	RS2	QC	95	1	1	1	
17	CCB	RS10	QC	96	1	1	1	
18	L2538801-05N	RB85	Unknown	0	1	1	1	
19	L2536045-01A	RB86	Unknown	0	1	1	1	
20	WG2081339-3	RB87	Unknown	0	1	1	1	
21	WG2081339-4	RB88	Unknown	0	1	1	1	
22	L2536211-01B	RB89	Unknown	0	1	1	1	
23	L2536213-01A	RB90	Unknown	0	1	1	1	
24	L2536217-01B	RC1	Unknown	0	1	1	1	
25	L2536217-02B	RC2	Unknown	0	1	1	1	
26	L2536265-01B	RC3	Unknown	0	1	1	1	
27	L2536265-02B	RC4	Unknown	0	1	1	1	
28	CCV NO3	RS1	QC	94	1	1	1	
29	CCV NO2	RS2	QC	95	1	1	1	
30	CCB	RS10	QC	96	1	1	1	
31	L2536265-03B	RC5	Unknown	0	1	1	1	

Injection No	Sample Name	Rack Position	Sample Type	Level	MDF	ADF	Weight	Comment
32	L2536265-04B	RC6	Unknown	0	1	1	1	
33	L2536370-02A	RC7	Unknown	0	1	1	1	
34	L2536370-04A	RC8	Unknown	0	1	1	1	
35	L2536370-07A	RC9	Unknown	0	1	1	1	
36	L2537336-02Q	RC10	Unknown	0	1	1	1	
37	L2537391-01H	RC11	Unknown	0	1	1	1	
38	CCV NO3	RS1	QC	94	1	1	1	
39	CCV NO2	RS2	QC	95	1	1	1	
40	CCB	RS10	QC	96	1	1	1	

Sample Table Location: C:\FIALab\FIALab User Files\Tables\Sample Tables\Prepared Standards_2024-03-26-102432.csv

Total Dissolved Solids Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-01	Date Collected	: 06/18/25 09:00
Client ID	: MW-8S	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/24/25 01:31
Sample Matrix	: WATER	Dilution Factor	: 1.3
Analytical Method	: 121,2540C	Analyst	: DEW
Lab File ID	: WG2082534.pdf	Instrument ID	: BALANCE#22
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Solids, Total Dissolved	100	13	4.0	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-02	Date Collected	: 06/18/25 09:05
Client ID	: MW-8D	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/24/25 01:31
Sample Matrix	: WATER	Dilution Factor	: 1.3
Analytical Method	: 121,2540C	Analyst	: DEW
Lab File ID	: WG2082534.pdf	Instrument ID	: BALANCE#22
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Solids, Total Dissolved	140	13	4.0	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-03	Date Collected	: 06/18/25 10:30
Client ID	: MW-5D	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/24/25 01:31
Sample Matrix	: WATER	Dilution Factor	: 1.3
Analytical Method	: 121,2540C	Analyst	: DEW
Lab File ID	: WG2082534.pdf	Instrument ID	: BALANCE#22
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Solids, Total Dissolved	160	13	4.0	

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-04	Date Collected	: 06/18/25 10:45
Client ID	: PZ-5	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/24/25 01:31
Sample Matrix	: WATER	Dilution Factor	: 1.3
Analytical Method	: 121,2540C	Analyst	: DEW
Lab File ID	: WG2082534.pdf	Instrument ID	: BALANCE#22
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Solids, Total Dissolved	120	13	4.0	

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-05	Date Collected	: 06/18/25 13:20
Client ID	: MW-12S	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/24/25 01:31
Sample Matrix	: WATER	Dilution Factor	: 1.3
Analytical Method	: 121,2540C	Analyst	: DEW
Lab File ID	: WG2082534.pdf	Instrument ID	: BALANCE#22
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Solids, Total Dissolved	170	13	4.0	

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-06	Date Collected	: 06/18/25 13:22
Client ID	: MW-12D	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/24/25 01:31
Sample Matrix	: WATER	Dilution Factor	: 1.3
Analytical Method	: 121,2540C	Analyst	: DEW
Lab File ID	: WG2082534.pdf	Instrument ID	: BALANCE#22
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Solids, Total Dissolved	130	13	4.0	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-07	Date Collected	: 06/18/25 12:00
Client ID	: DUP_06182025	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/24/25 01:31
Sample Matrix	: WATER	Dilution Factor	: 1.3
Analytical Method	: 121,2540C	Analyst	: DEW
Lab File ID	: WG2082534.pdf	Instrument ID	: BALANCE#22
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Solids, Total Dissolved	170	13	4.0	

Form 1

WETCHEM

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Lab ID : WG2082534-1
 Client ID : WG2082534-1BLANK
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 121,2540C
 Lab File ID : WG2082534.pdf
 Sample Amount :
 Digestion Method :

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 06/24/25 01:31
 Dilution Factor : 1
 Analyst : DEW
 Instrument ID : BALANCE#22
 %Solids : N/A
 Date Digested :

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Solids, Total Dissolved	ND	10	3.1	U



Form 1

WETCHEM

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Lab ID : WG2082534-3
Client ID : MW-12SDUP
Sample Location :
Sample Matrix : WATER
Analytical Method : 121,2540C
Lab File ID : WG2082534.pdf
Sample Amount :
Digestion Method :

Lab Number : L2538382
Project Number : 2232.0006Y005
Date Collected : 06/18/25 13:20
Date Received : 06/18/25
Date Analyzed : 06/24/25 01:31
Dilution Factor : 1.3
Analyst : DEW
Instrument ID : BALANCE#22
%Solids : N/A
Date Digested :

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Solids, Total Dissolved	170	13	4.0	

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: WG2082534-4	Date Collected	: 06/18/25 13:22
Client ID	: MW-12DDUP	Date Received	: 06/18/25
Sample Location	:	Date Analyzed	: 06/24/25 01:31
Sample Matrix	: WATER	Dilution Factor	: 1.3
Analytical Method	: 121,2540C	Analyst	: DEW
Lab File ID	: WG2082534.pdf	Instrument ID	: BALANCE#22
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
NONE	Solids, Total Dissolved	130	13	4.0	



Sample Raw Data

WorkGroup	WG2082534	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	180	Temp In (C)	
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WorkGroup	WG2082534		Temp In (C) 180		Temp In (C) 180		Temp In (C) 180		Temp In (C)		Temp In (C)			
	Title Solids, Total Dissolved		Temp Out (C) 180		Temp Out (C) 180		Temp Out (C) 180		Temp Out (C)		Temp Out (C)			
	Method SM2540C		Time In 25-JUN-25 07:15		Time In 25-JUN-25 10:24		Time In 26-JUN-25 03:17		Time In		Time In			
	Instrument BALANCE#22		Time Out 25-JUN-25 09:15		Time Out 25-JUN-25 16:25		Time Out 26-JUN-25 05:15		Time Out		Time Out			
												LCS Lot # 061025B	TrueValue 500	Units mg/l
Sample #	Analysis Date	Analyst	Cup ID			Sample Volume (ml)						Result mg/L	Dil	Comment
WG2082534-4	24-JUN-25 01:31	DEB WHELAN	K10	79145397	69.9524	80	69.9628	69.9627				128.75	1.3	

Quality Control

Form 6 Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Client Sample ID	: MW-12S	Matrix	: WATER
Lab Sample ID	: L2538382-05	Analysis Date	: 06/24/25 01:31
Dup Sample ID	: WG2082534-3	DUP Analysis Date	: 06/24/25 01:31

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Solids, Total Dissolved	170	170	0	10



Form 6 Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Client Sample ID	: MW-12D	Matrix	: WATER
Lab Sample ID	: L2538382-06	Analysis Date	: 06/24/25 01:31
Dup Sample ID	: WG2082534-4	DUP Analysis Date	: 06/24/25 01:31

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Solids, Total Dissolved	130	130	0	10



Form 7

Laboratory Control Sample

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : NA
 Lab Sample ID : WG2082534-2
 Dup Sample ID :

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Matrix : WATER
 LCS Analysis Date : 06/24/25 01:31
 LCSD Analysis Date :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R			
Solids, Total Dissolved	500.	490.	97.					80-120	10



Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

[illegible]

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soll/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of the laboratory.

Calculations of TDS

$$\text{mgTDS/L} = \frac{(A - B) \times 1000}{\text{Sample volume, (L)}}$$

Where:

A = Final weight (weight of dish + dried residue, g)

B = Initial weight (weight of clean dish, g)

Sulfate Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-01	Date Collected	: 06/18/25 09:00
Client ID	: MW-8S	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/24/25 10:40
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500SO4-E	Analyst	: MRW
Lab File ID	: WG2082652.csv	Instrument ID	: SPEC6
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	: 06/24/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
14808-79-8	Sulfate	23.	10	1.4	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-02	Date Collected	: 06/18/25 09:05
Client ID	: MW-8D	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/24/25 10:40
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500SO4-E	Analyst	: MRW
Lab File ID	: WG2082652.csv	Instrument ID	: SPEC6
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	: 06/24/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
14808-79-8	Sulfate	16.	10	1.4	

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-03	Date Collected	: 06/18/25 10:30
Client ID	: MW-5D	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/24/25 10:40
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500SO4-E	Analyst	: MRW
Lab File ID	: WG2082652.csv	Instrument ID	: SPEC6
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	: 06/24/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
14808-79-8	Sulfate	18.	10	1.4	

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-04	Date Collected	: 06/18/25 10:45
Client ID	: PZ-5	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/24/25 10:40
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500SO4-E	Analyst	: MRW
Lab File ID	: WG2082652.csv	Instrument ID	: SPEC6
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	: 06/24/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
14808-79-8	Sulfate	11.	10	1.4	

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-05	Date Collected	: 06/18/25 13:20
Client ID	: MW-12S	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/24/25 10:40
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500SO4-E	Analyst	: MRW
Lab File ID	: WG2082652.csv	Instrument ID	: SPEC6
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	: 06/24/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
14808-79-8	Sulfate	11.	10	1.4	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-06	Date Collected	: 06/18/25 13:22
Client ID	: MW-12D	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/26/25 14:00
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500SO4-E	Analyst	: MRW
Lab File ID	: WG2083248.csv	Instrument ID	: SPEC6
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	: 06/26/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
14808-79-8	Sulfate	19.	10	1.4	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-07	Date Collected	: 06/18/25 12:00
Client ID	: DUP_06182025	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/24/25 10:40
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500SO4-E	Analyst	: MRW
Lab File ID	: WG2082652.csv	Instrument ID	: SPEC6
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	: 06/24/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
14808-79-8	Sulfate	9.8	10	1.4	J

Form 1

WETCHEM

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Lab ID : WG2082652-1
Client ID : WG2082652-1BLANK
Sample Location :
Sample Matrix : WATER
Analytical Method : 121,4500SO4-E
Lab File ID : WG2082652.csv
Sample Amount :
Digestion Method :

Lab Number : L2538382
Project Number : 2232.0006Y005
Date Collected : NA
Date Received : NA
Date Analyzed : 06/24/25 10:40
Dilution Factor : 1
Analyst : MRW
Instrument ID : SPEC6
%Solids : N/A
Date Digested : 06/24/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
14808-79-8	Sulfate	1.9	10	1.4	J

Form 1

WETCHEM

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Lab ID : WG2082652-3
Client ID : WG2082652-3 DUP
Sample Location :
Sample Matrix : WATER
Analytical Method : 121,4500SO4-E
Lab File ID : WG2082652.csv
Sample Amount :
Digestion Method :

Lab Number : L2538382
Project Number : 2232.0006Y005
Date Collected : 06/17/25 09:15
Date Received : 06/17/25
Date Analyzed : 06/24/25 10:40
Dilution Factor : 2.5
Analyst : MRW
Instrument ID : SPEC6
%Solids : N/A
Date Digested : 06/24/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
14808-79-8	Sulfate	41.	25	3.4	

Form 1

WETCHEM

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Lab ID : WG2083248-1
Client ID : WG2083248-1BLANK
Sample Location :
Sample Matrix : WATER
Analytical Method : 121,4500SO4-E
Lab File ID : WG2083248.csv
Sample Amount :
Digestion Method :

Lab Number : L2538382
Project Number : 2232.0006Y005
Date Collected : NA
Date Received : NA
Date Analyzed : 06/26/25 14:00
Dilution Factor : 1
Analyst : MRW
Instrument ID : SPEC6
%Solids : N/A
Date Digested : 06/26/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
14808-79-8	Sulfate	2.0	10	1.4	J

Form 1

WETCHEM

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Lab ID : WG2083248-3
Client ID : MW-12DDUP
Sample Location :
Sample Matrix : WATER
Analytical Method : 121,4500SO4-E
Lab File ID : WG2083248.csv
Sample Amount :
Digestion Method :

Lab Number : L2538382
Project Number : 2232.0006Y005
Date Collected : 06/18/25 13:22
Date Received : 06/18/25
Date Analyzed : 06/26/25 14:00
Dilution Factor : 1
Analyst : MRW
Instrument ID : SPEC6
%Solids : N/A
Date Digested : 06/26/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
14808-79-8	Sulfate	18.	10	1.4	

Sample Raw Data

PACE ANALYTICAL LABS
WET CHEMISTRY DEPARTMENT
S U L F A T E

Last Change 3/5/13
File SO4-L.xlt
Curve/spike/ccv;WC-3572
LCS;WC-3587
Reagent;lot A5106

Sample Number: _____ Product: SO4-4500
Curve Calibration Date : 06/24/25
Client: _____ Curve Identifier: 6/24/2025
Analysis: Sulfate, SO4 Analysis Analyte: Sulfate
Method: SM 4500SO4-E Analysis Date: 6/24/2025 10:40
Instrument: SPEC6 Preparation Date: 6/24/2025 10:40
Wavelength: 420 nm Technician: MRW
Spike Volume(ml): 0.5 Work group: WG2082652
Spike Concentration (mg/l): 1000 RL: 10 mg/l
Cell: 2.5 cm

Standard ID	Mean signal (pk area) abs	Dilution	Calc-ed Result	Calibration Curve Volume: 25 ml
0	0.000	1.0	1.66	Slope y-intercept
10	0.142	1.0	8.77	0.019983 -0.0332
20	0.337	1.0	18.5	
40	0.787	1.0	41.0	Correlation Coefficient 0.995716
ICV/LCS Concentration (mg/l) = 20.0000				

	Sample Volume (ml)	Final Volume (ml)	Bkgd. Abs.	Gross Abs.	Net Absorbance	RESULT (mg/l)	Dilution Factor	RL Multiplier	FINAL RESULT (mg/l)		
Sample number											
ICB	25	25	0	0.002	0.002	1.896	1	1.0	1.9	Recovery	
ICV	25	25	0	0.396	0.396	21.444	1	1.0	21.4	107%	
L2536792-01	2	25	0.013	0.629	0.616	32.360	1	12.5	404.5		
L2537655-01	25	25	0.001	0.2	0.199	11.670	1	1.0	11.7		
L2537655-02	25	25	0.051	0.575	0.524	27.795	1	1.0	27.8		
L2537655-03	25	25	0.001	0.003	0.002	1.896	1	1.0	1.9		
L2537655-04	25	25	0.007	0.331	0.324	17.872	1	1.0	17.9		
L2537655-05	25	25	0.001	0.12	0.119	7.701	1	1.0	7.7		
SAMP	L2538013-01	10	25	0.002	0.313	0.311	17.227	1	2.5	43.1	
SAMP	L2538013-02	25	25	0.053	0.272	0.219	12.663	1	1.0	12.7	
	CCV1	25	25	0	0.394	0.394	21.345	1	1.0	21.3	
	CCB1	25	25	0	0.002	0.002	1.896	1	1.0	1.9	
SAMP	L2538013-03	25	25	0.071	0.28	0.209	12.166	1	1.0	12.2	
SAMP	L2538013-04	25	25	0.002	0.309	0.307	17.029	1	1.0	17.0	
SAMP	L2538013-05	25	25	0.05	0.785	0.735	38.264	1	1.0	38.3	
SAMP	L2538013-06	12.5	25	0.007	0.321	0.314	17.376	1	2.0	34.8	
SAMP	L2538013-07	25	25	0.006	0.308	0.302	16.781	1	1.0	16.8	
SAMP	L2538382-01	25	25	0.034	0.462	0.428	23.032	1	1.0	23.0	
SAMP	L2538382-02	25	25	0.002	0.291	0.289	16.136	1	1.0	16.1	
SAMP	L2538382-03	25	25	0.083	0.405	0.322	17.773	1	1.0	17.8	
SAMP	L2538382-04	25	25	0.003	0.196	0.193	11.373	1	1.0	11.4	
SAMP	L2538382-05	25	25	0.007	0.186	0.179	10.678	1	1.0	10.7	
	CCV2	25	25	0	0.392	0.392	21.246	1	1.0	21.2	
	CCB2	25	25	0	0.004	0.004	1.995	1	1.0	2.0	
SAMP	L2538382-07	25	25	0.004	0.165	0.161	9.785	1	1.0	9.8	
LOQ1	WG2082652-5	25	25	0	0.183	0.183	10.876	1	1.0	10.9	
	CCV3	25	25	0	0.388	0.388	21.047	1	1.0	21.0	
	CCB3	25	25	0	0.005	0.005	2.045	1	1.0	2.0	
BLANK	WG2082652-1	25	25	0.000	0.002	0.002	1.896	1	1.0	1.9	
DUP	WG2082652-3	10	25	0.003	0.296	0.293	16.334	1	2.5	40.8	L2538013-01
	sample volume	Final volume (ml)	Bkgd. Abs.	Gross Abs.	Absorbance	Sample Result mg/l	Spiked Volume	Spike conc. mg/l	Spike Result mg/l	Recovery	
MS	WG2082652-4	5	25	0.001	0.559	0.558	43.100	5	100.0000	147	104
	L2538013-01										
LCS	WG2082652-2	25	25	0	0.396	0.396		1	20.0000	21	107

PACE ANALYTICAL LABS
WET CHEMISTRY DEPARTMENT
S U L F A T E

Last Change 3/5/13
File SO4-L.xlt
Curve/spike/ccv;WC-3572
LCS;WC-3587
Reagent;lot A5106

Sample Number: _____ Product: SO4-4500
Curve Calibration Date : 06/26/25
Client: _____ Curve Identifier: 6/26/2025
Analysis: Sulfate, SO4 Analysis Analyte: Sulfate
Method: SM 4500SO4-E Analysis Date: 6/26/2025 14:00
Instrument: SPEC6 Preparation Date: 6/26/2025 14:00
Wavelength: 420 nm Technician: MRW
Spike Volume(ml): 0.5 Work group: WG2083248
Spike Concentration (mg/l): 1000 RL: 10 mg/l
Cell: 2.5 cm

CALIBRATION CURVE					
Standard ID	Mean signal (pk area) abs	Dilution	Calc-ed Result	Calibration Curve Volume: 25 ml	
0	0.000	1.0	1.76	Slope	y-intercept
10	0.134	1.0	8.33	0.020374	-0.0358
20	0.351	1.0	19.0	Correlation Coefficient 0.995602	
40	0.798	1.0	40.9		
ICV/LCS Concentration (mg/l) = 20.0000					

	Sample number	Sample Volume (ml)	Final Volume (ml)	Bkgd. Abs.	Gross Abs.	Net Absorbance	RESULT (mg/l)	Dilution Factor	RL Multiplier	FINAL RESULT (mg/l)	
	ICB	25	25	0	0.003	0.003	2.041	1	1.0	2.0	Recovery
	ICV	25	25	0	0.357	0.357	19.264	1	1.0	19.3	
SAMP	L2538382-06	25	25	0.004	0.361	0.357	19.264	1	1.0	19.3	96%
SAMP	L2538805-01	25	25	0	0.178	0.178	10.555	1	1.0	10.6	
SAMP	L2538805-02	25	25	0.005	0.273	0.268	14.934	1	1.0	14.9	
SAMP	L2538805-03	25	25	0.003	0.262	0.259	14.496	1	1.0	14.5	
SAMP	L2538805-04	25	25	0.012	0.099	0.087	6.128	1	1.0	6.1	
SAMP	L2538805-05	25	25	0.007	0.359	0.352	19.020	1	1.0	19.0	
SAMP	L2538805-06	25	25	0.004	0.001	-0.003	1.749	1	1.0	1.7	
	CCV	25	25	0	0.354	0.354	19.118	1	1.0	19.1	
	CCB	25	25	0	0.003	0.003	2.041	1	1.0	2.0	
		25	25					1	1.0		
		25	25					1	1.0		L2538382-06
LOQ2	WG2083248-5	25	25	0	0.136	0.136	8.512	1	1.0	8.5	
		25	25					1	1.0		
		25	25					1	1.0		
		25	25					1	1.0		
		25	25					1	1.0		
		25	25					1	1.0		
		25	25					1	1.0		
		25	25					1	1.0		
		25	25					1	1.0		
BLANK	WG2083248-1	25	25	0.000	0.003	0.003	2.041	1	1.0	2.0	
DUP	WG2083248-3	25	25	0.003	0.34	0.337	18.291	1	1.0	18.3	
	sample	Final	Bkgd.	Gross		Sample	Spiked	Spike conc.	Spike	Recovery	
	Sample number	volume	volume (ml)	Abs.	Abs.	Absorbance	Result mg/l	Volume	mg/l	Result mg/l	%
MS	WG2083248-4	12.5	25	0.002	0.584	0.582	19.300	12.5	40.0000	60	103
L2538382-06											
LCS	WG2083248-2	25	25	0	0.357	0.357		1	20.0000	19	96

Quality Control

Form 5a Matrix Spike

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : NA
 Lab Sample ID : L2538013-01
 Matrix Spike : WG2082652-4
 Matrix Spike Dup :

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Matrix : WATER

MS Analysis Date : 06/24/25 10:40
 MSD Analysis Date :

Parameter	Sample Conc. (mg/l)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R			
Sulfate	43.	100	150	104					55-147	14



Form 5a Matrix Spike

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : MW-12D
 Lab Sample ID : L2538382-06
 Matrix Spike : WG2083248-4
 Matrix Spike Dup :

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Matrix : WATER
 MS Analysis Date : 06/26/25 14:00
 MSD Analysis Date :

Parameter	Sample Conc. (mg/l)	Matrix Spike Sample		%R	Matrix Spike Duplicate		%R	RPD	Recovery Limits	RPD Limit
		Spike Added (mg/l)	Spike Conc. (mg/l)		Spike Added (mg/l)	Spike Conc. (mg/l)				
Sulfate	19.	40	60.	102					55-147	14



Form 6 Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Client Sample ID	: NA	Matrix	: WATER
Lab Sample ID	: NA	Analysis Date	: 06/24/25 10:40
Dup Sample ID	: WG2082652-3	DUP Analysis Date	: 06/24/25 10:40

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Sulfate	43	41.	5	14



Form 6 Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Client Sample ID	: MW-12D	Matrix	: WATER
Lab Sample ID	: L2538382-06	Analysis Date	: 06/26/25 14:00
Dup Sample ID	: WG2083248-3	DUP Analysis Date	: 06/26/25 14:00

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Sulfate	19.	18.	5	14



Form 7

Laboratory Control Sample

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : NA
 Lab Sample ID : WG2082652-2
 Dup Sample ID :

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Matrix : WATER
 LCS Analysis Date : 06/24/25 10:40
 LCSD Analysis Date :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R			
Sulfate	20.0	21.0	105.					90-110	14



Form 7 Laboratory Control Sample

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : NA
 Lab Sample ID : WG2083248-2
 Dup Sample ID :

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Matrix : WATER
 LCS Analysis Date : 06/26/25 14:00
 LCSD Analysis Date :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R			
Sulfate	20.0	19.0	95.					90-110	14

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

[illegible]

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soll/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of the laboratory.

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

[illegible]

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soll/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of the laboratory.

Calculations of Sulfate

Aqueous samples:

Calculate the concentration value of the sample directly from the standard curve.

$$\text{mgSO}_4/\text{L} = \frac{\text{absorbance} - \text{y-intercept}}{\text{slope}} \times \text{Dilution Factor}$$

If sample has a background absorbance, it has to be subtracted before calculation.

Alkalinity Analysis

Results

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-01	Date Collected	: 06/18/25 09:00
Client ID	: MW-8S	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/26/25 05:47
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,2320B	Analyst	: MRM
Lab File ID	: ALK260626-A1	Instrument ID	: TITR5
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg CaCO ₃ /L			Qualifier
		Results	RL	MDL	
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	26.1	2.00	NA	

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-02	Date Collected	: 06/18/25 09:05
Client ID	: MW-8D	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/26/25 05:54
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,2320B	Analyst	: MRM
Lab File ID	: ALK260626-A1	Instrument ID	: TITR5
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg CaCO3/L			Qualifier
		Results	RL	MDL	
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	22.6	2.00	NA	



Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-03	Date Collected	: 06/18/25 10:30
Client ID	: MW-5D	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/26/25 05:56
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,2320B	Analyst	: MRM
Lab File ID	: ALK260626-A1	Instrument ID	: TITR5
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg CaCO ₃ /L			Qualifier
		Results	RL	MDL	
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	32.1	2.00	NA	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-04	Date Collected	: 06/18/25 10:45
Client ID	: PZ-5	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/26/25 05:58
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,2320B	Analyst	: MRM
Lab File ID	: ALK260626-A1	Instrument ID	: TITR5
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg CaCO3/L			Qualifier
		Results	RL	MDL	
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	92.0	2.00	NA	



Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-05	Date Collected	: 06/18/25 13:20
Client ID	: MW-12S	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/26/25 06:01
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,2320B	Analyst	: MRM
Lab File ID	: ALK260626-A1	Instrument ID	: TITR5
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg CaCO ₃ /L			Qualifier
		Results	RL	MDL	
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	30.0	2.00	NA	

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-06	Date Collected	: 06/18/25 13:22
Client ID	: MW-12D	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/26/25 06:03
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,2320B	Analyst	: MRM
Lab File ID	: ALK260626-A1	Instrument ID	: TITR5
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg CaCO ₃ /L			Qualifier
		Results	RL	MDL	
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	26.9	2.00	NA	

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-07	Date Collected	: 06/18/25 12:00
Client ID	: DUP_06182025	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/26/25 06:06
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,2320B	Analyst	: MRM
Lab File ID	: ALK260626-A1	Instrument ID	: TITR5
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg CaCO ₃ /L			Qualifier
		Results	RL	MDL	
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	26.7	2.00	NA	

Form 1

WETCHEM

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Lab ID : WG2083602-1
 Client ID : WG2083602-1BLANK
 Sample Location :
 Sample Matrix : WATER
 Analytical Method : 121,2320B
 Lab File ID : ALK260626-A1
 Sample Amount :
 Digestion Method :

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 06/26/25 06:15
 Dilution Factor : 1
 Analyst : MRM
 Instrument ID : TITR5
 %Solids : N/A
 Date Digested :

CAS NO.	Parameter	mg CaCO3/L			Qualifier
		Results	RL	MDL	
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U
71-52-3	Alkalinity, Bicarbonate	ND	2.00	NA	U



Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: WG2083602-2	Date Collected	: 06/18/25 13:22
Client ID	: MW-12DDUP	Date Received	: 06/18/25
Sample Location	:	Date Analyzed	: 06/26/25 06:04
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,2320B	Analyst	: MRM
Lab File ID	: ALK260626-A1	Instrument ID	: TITR5
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg CaCO3/L			Qualifier
		Results	RL	MDL	
71-52-3	Alkalinity, Bicarbonate	27.6	2.00	NA	
3812-32-6	Alkalinity, Carbonate	ND	2.00	NA	U



Sample Raw Data

Titration report

LabX

Method

Method ID	pH Cal. 7 4 10	Release state	Released
Name	Calibration	Modified by	SystemInternal
Modified on	10/3/2023 12:47:09 PM		

Summary

Samples

	Sample ID	Name	Result	State
1	METTLER TOLEDO (Ref. 25°C) pH	pH	7.00	
2	METTLER TOLEDO (Ref. 25°C) pH	pH	4.01	
3	METTLER TOLEDO (Ref. 25°C) pH	pH	10.00	

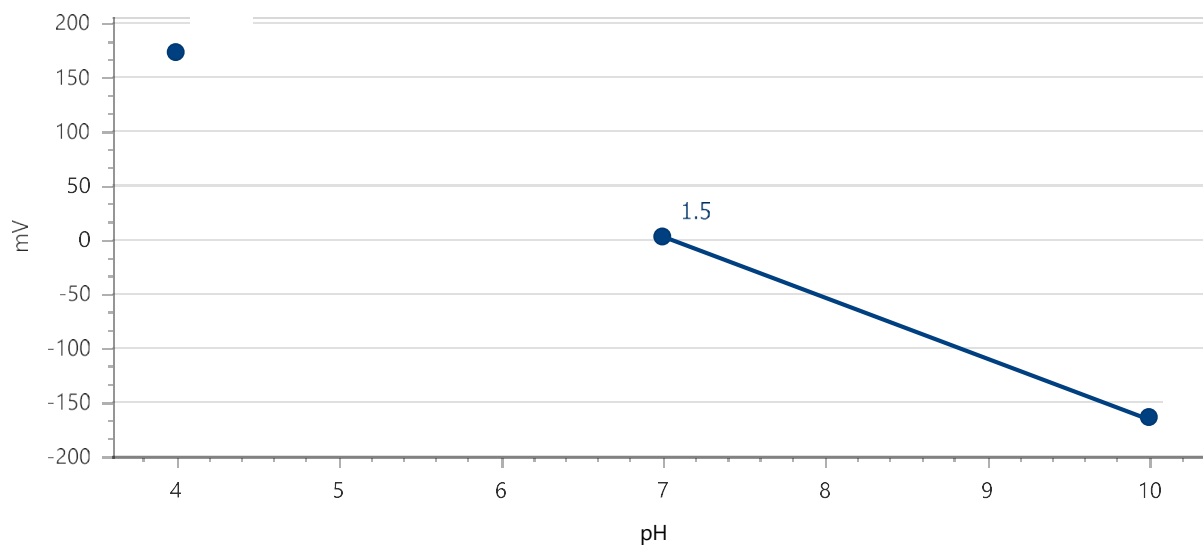
Results

Zero point 1 Cal1.Z1 7.045 pH
Slope 1 Cal1.S1 -56.31 mV/pH

Calibration

Sensor Sensor DG111-SC
Creation time 6/26/2025 2:01:12 AM
Overall state OK
Successful Yes
Calib. temperature 25.0 °C
SLOPECal -56.31 mV/pH
ZEROCal 7.045 pH

Calibration Curve



Used Instruments

Titration report



Name	T7 Excellence Titrator	Serial number	C329519495
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Responsible User

Time	Login name	Full name
6/26/2025 1:56:44 AM	SystemInternal	System internal account

Titration report



Method

Method ID	pH Measure	Release state	Released
Name	Measure	Modified by	SystemInternal
Modified on	2/23/2024 9:31:05 AM		

Summary

Samples

Sample ID		Name	Result	State
1	--	Sample size	0 mL	
		Potential R1	7.01 pH	OK

Used Instruments

Name	T7 Excellence Titrator	Serial number	C329519495
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Responsible User

Time	Login name	Full name
6/26/2025 2:06:32 AM	SystemInternal	System internal account

Titration report



Method

Method ID	Alk Total (2)	Release state	Released
Name	EP/EP	Modified by	SystemInternal
Modified on	3/26/2025 11:25:13 AM		

Summary

Samples

Sample ID	Name	Result	State
1	Rinse,MRM	Sample size	50 mL
		Potential R4	7.38 pH
		Consumption 8.3 R1	NaN mL
		Consumption 4.5 R2	0.930 mL
		Consumption 4.2 R3	0.933 mL
		Content R5	18.600 mg/L
		ALK LOW R6	18.540 mg/L
2	Rinse,MRM	Sample size	50 mL
		Potential R4	4.95 pH
		Consumption 8.3 R1	NaN mL
		Consumption 4.5 R2	0.033 mL
		Consumption 4.2 R3	0.040 mL
		Content R5	0.660 mg/L
		ALK LOW R6	0.520 mg/L
3	Rinse,MRM	Sample size	50 mL
		Potential R4	4.41 pH
		Consumption 8.3 R1	NaN mL
		Consumption 4.5 R2	NaN mL
		Consumption 4.2 R3	0.015 mL
		Content R5	NaN mg/L
		ALK LOW R6	NaN mg/L
4	BLANK	Sample size	50 mL
		Potential R4	4.42 pH
		Consumption 8.3 R1	NaN mL
		Consumption 4.5 R2	NaN mL
		Consumption 4.2 R3	0.009 mL
		Content R5	NaN mg/L
		ALK LOW R6	NaN mg/L
5	LCS	Sample size	50 mL
		Potential R4	10.81 pH
		Consumption 8.3 R1	5.015 mL
		Consumption 4.5 R2	5.398 mL
		Consumption 4.2 R3	5.403 mL
		Content R5	107.960 mg/L
		ALK LOW R6	107.860 mg/L
6	BLANK	Sample size	50 mL

Titration report

LabX

		Potential R4	4.37 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	0.007 mL	OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
7	LCS	Sample size	50 mL	
		Potential R4	10.90 pH	OK
		Consumption 8.3 R1	5.026 mL	OK
		Consumption 4.5 R2	5.402 mL	OK
		Consumption 4.2 R3	5.407 mL	OK
		Content R5	108.040 mg/L	OK
		ALK LOW R6	107.940 mg/L	OK
8	L2536981-04 10x	Sample size	50 mL	
		Potential R4	5.86 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	8.596 mL	OK
		Consumption 4.2 R3	11.038 mL	OK
		Content R5	171.920 mg/L	OK
		ALK LOW R6	123.080 mg/L	OK
9	L2536981-05 10x	Sample size	50 mL	
		Potential R4	5.66 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	9.022 mL	OK
		Consumption 4.2 R3	11.845 mL	OK
		Content R5	180.440 mg/L	OK
		ALK LOW R6	123.980 mg/L	OK
10	L2536981-06 10x	Sample size	50 mL	
		Potential R4	5.84 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.930 mL	OK
		Consumption 4.2 R3	3.651 mL	OK
		Content R5	58.600 mg/L	OK
		ALK LOW R6	44.180 mg/L	OK
11	L2536981-07 10x	Sample size	50 mL	
		Potential R4	5.97 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	8.501 mL	OK
		Consumption 4.2 R3	10.512 mL	OK
		Content R5	170.020 mg/L	OK
		ALK LOW R6	129.800 mg/L	OK
12	L2537427-02	Sample size	50 mL	
		Potential R4	4.97 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.127 mL	OK
		Consumption 4.2 R3	0.145 mL	OK
		Content R5	2.540 mg/L	OK

Titration report

LabX

13	L2537427-02	ALK LOW R6	2.180 mg/L	OK
		Sample size	50 mL	
		Potential R4	4.45 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	0.028 mL	OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
14	L2537427-04	Sample size	50 mL	
		Potential R4	5.02 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.429 mL	OK
		Consumption 4.2 R3	0.475 mL	OK
		Content R5	8.580 mg/L	OK
		ALK LOW R6	7.660 mg/L	OK
15	WG2083600-3	Sample size	50 mL	
		Potential R4	5.06 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.436 mL	OK
		Consumption 4.2 R3	0.485 mL	OK
		Content R5	8.720 mg/L	OK
		ALK LOW R6	7.740 mg/L	OK
16	WG2083600-4	Sample size	50 mL	
		Potential R4	8.94 pH	OK
		Consumption 8.3 R1	1.640 mL	OK
		Consumption 4.5 R2	5.825 mL	OK
		Consumption 4.2 R3	5.837 mL	OK
		Content R5	116.500 mg/L	OK
		ALK LOW R6	116.260 mg/L	OK
17	L2537427-07	Sample size	50 mL	
		Potential R4	4.32 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	0.063 mL	OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
18	L2537427-11	Sample size	50 mL	
		Potential R4	4.34 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	0.074 mL	OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
19	WG2083600-2	Sample size	50 mL	
		Potential R4	10.80 pH	OK
		Consumption 8.3 R1	5.035 mL	OK
		Consumption 4.5 R2	5.450 mL	OK

Titration report

LabX

		Consumption 4.2 R3	5.453 mL	OK
		Content R5	109.000 mg/L	OK
		ALK LOW R6	108.940 mg/L	OK
20	WG2083600-1	Sample size	50 mL	
		Potential R4	4.67 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.015 mL	OK
		Consumption 4.2 R3	0.023 mL	OK
		Content R5	0.300 mg/L	OK
		ALK LOW R6	0.140 mg/L	OK
21	LCS	Sample size	50 mL	
		Potential R4	10.82 pH	OK
		Consumption 8.3 R1	4.970 mL	OK
		Consumption 4.5 R2	5.344 mL	OK
		Consumption 4.2 R3	5.344 mL	OK
		Content R5	106.880 mg/L	OK
		ALK LOW R6	106.880 mg/L	OK
22	WG2083601-1	Sample size	50 mL	
		Potential R4	4.68 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.000 mL	OK
		Consumption 4.2 R3	0.019 mL	OK
		Content R5	0.000 mg/L	OK
		ALK LOW R6	-0.380 mg/L	OK
23	L2537053-03	Sample size	50 mL	
		Potential R4	5.74 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	12.836 mL	OK
		Consumption 4.2 R3	13.069 mL	OK
		Content R5	256.720 mg/L	OK
		ALK LOW R6	252.060 mg/L	OK
24	WG2083601-2	Sample size	50 mL	
		Potential R4	5.87 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	13.148 mL	OK
		Consumption 4.2 R3	13.381 mL	OK
		Content R5	262.960 mg/L	OK
		ALK LOW R6	258.300 mg/L	OK
25	L2538061-01	Sample size	50 mL	
		Potential R4	5.95 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	6.502 mL	OK
		Consumption 4.2 R3	6.548 mL	OK
		Content R5	130.040 mg/L	OK
		ALK LOW R6	129.120 mg/L	OK
26	L2538061-04	Sample size	50 mL	
		Potential R4	11.67 pH	OK

Titration report

LabX

		Consumption 8.3 R1	19.472 mL	OK
		Consumption 4.5 R2	20.461 mL	OK
		Consumption 4.2 R3	20.598 mL	OK
		Content R5	409.220 mg/L	OK
		ALK LOW R6	406.480 mg/L	OK
27	L2538382-01	Sample size	50 mL	
		Potential R4	5.48 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.303 mL	OK
		Consumption 4.2 R3	1.378 mL	OK
		Content R5	26.060 mg/L	OK
		ALK LOW R6	24.560 mg/L	OK
28	L2538382-02	Sample size	50 mL	
		Potential R4	5.43 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.128 mL	OK
		Consumption 4.2 R3	1.194 mL	OK
		Content R5	22.560 mg/L	OK
		ALK LOW R6	21.240 mg/L	OK
29	L2538382-03	Sample size	50 mL	
		Potential R4	5.49 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.607 mL	OK
		Consumption 4.2 R3	1.685 mL	OK
		Content R5	32.140 mg/L	OK
		ALK LOW R6	30.580 mg/L	OK
30	L2538382-04	Sample size	50 mL	
		Potential R4	5.72 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	4.599 mL	OK
		Consumption 4.2 R3	4.681 mL	OK
		Content R5	91.980 mg/L	OK
		ALK LOW R6	90.340 mg/L	OK
31	L2538382-05	Sample size	50 mL	
		Potential R4	5.43 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.499 mL	OK
		Consumption 4.2 R3	1.562 mL	OK
		Content R5	29.980 mg/L	OK
		ALK LOW R6	28.720 mg/L	OK
32	L2538382-06	Sample size	50 mL	
		Potential R4	5.44 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.343 mL	OK
		Consumption 4.2 R3	1.384 mL	OK
		Content R5	26.860 mg/L	OK
		ALK LOW R6	26.040 mg/L	OK

Titration report

LabX

33	WG2083602-2	Sample size	50 mL	
		Potential R4	5.46 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.381 mL	OK
		Consumption 4.2 R3	1.431 mL	OK
		Content R5	27.620 mg/L	OK
		ALK LOW R6	26.620 mg/L	OK
34	L2538382-07	Sample size	50 mL	
		Potential R4	5.44 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.337 mL	OK
		Consumption 4.2 R3	1.386 mL	OK
		Content R5	26.740 mg/L	OK
		ALK LOW R6	25.760 mg/L	OK
35	LCS	Sample size	50 mL	
		Potential R4	10.74 pH	OK
		Consumption 8.3 R1	4.947 mL	OK
		Consumption 4.5 R2	5.382 mL	OK
		Consumption 4.2 R3	5.384 mL	OK
		Content R5	107.640 mg/L	OK
		ALK LOW R6	107.600 mg/L	OK
36	WG2083602-1	Sample size	50 mL	
		Potential R4	4.55 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.000 mL	OK
		Consumption 4.2 R3	0.021 mL	OK
		Content R5	0.000 mg/L	OK
		ALK LOW R6	-0.420 mg/L	OK
37	L2537327-01	Sample size	50 mL	
		Potential R4	5.72 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.799 mL	OK
		Consumption 4.2 R3	2.818 mL	OK
		Content R5	55.980 mg/L	OK
		ALK LOW R6	55.600 mg/L	OK
38	L2537327-02	Sample size	50 mL	
		Potential R4	5.37 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.152 mL	OK
		Consumption 4.2 R3	0.161 mL	OK
		Content R5	3.040 mg/L	OK
		ALK LOW R6	2.860 mg/L	OK
39	WG2083603-3	Sample size	50 mL	
		Potential R4	4.97 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.125 mL	OK
		Consumption 4.2 R3	0.136 mL	OK

Titration report

LabX

40	WG2083603-4	Content R5	2.500 mg/L	OK
		ALK LOW R6	2.280 mg/L	OK
		Sample size	50 mL	
		Potential R4	10.78 pH	OK
		Consumption 8.3 R1	5.412 mL	OK
		Consumption 4.5 R2	5.917 mL	OK
		Consumption 4.2 R3	5.919 mL	OK
41	L2537098-03 10x	Content R5	118.340 mg/L	OK
		ALK LOW R6	118.300 mg/L	OK
		Sample size	50 mL	
		Potential R4	5.71 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.964 mL	OK
		Consumption 4.2 R3	4.001 mL	OK
42	L2537098-05 10x	Content R5	79.280 mg/L	OK
		ALK LOW R6	78.540 mg/L	OK
		Sample size	50 mL	
		Potential R4	5.61 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.052 mL	OK
		Consumption 4.2 R3	3.068 mL	OK
43	L2537227-01	Content R5	61.040 mg/L	OK
		ALK LOW R6	60.720 mg/L	OK
		Sample size	50 mL	
		Potential R4	4.95 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.243 mL	OK
		Consumption 4.2 R3	0.277 mL	OK
44	L2537227-02	Content R5	4.860 mg/L	OK
		ALK LOW R6	4.180 mg/L	OK
		Sample size	50 mL	
		Potential R4	4.99 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	0.289 mL	OK
		Consumption 4.2 R3	0.318 mL	OK
45	L2537250-01	Content R5	5.780 mg/L	OK
		ALK LOW R6	5.200 mg/L	OK
		Sample size	50 mL	
		Potential R4	6.07 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	NaN mL	Not OK
46	L2537250-02	Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
		Sample size	50 mL	
		Potential R4	5.80 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK

Titration report

LabX

		Consumption 4.5 R2	2.772 mL	OK
		Consumption 4.2 R3	2.813 mL	OK
		Content R5	55.440 mg/L	OK
		ALK LOW R6	54.620 mg/L	OK
47	L2537250-03	Sample size	50 mL	
		Potential R4	5.46 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	1.484 mL	OK
		Consumption 4.2 R3	1.512 mL	OK
		Content R5	29.680 mg/L	OK
		ALK LOW R6	29.120 mg/L	OK
48	L2537250-04	Sample size	50 mL	
		Potential R4	6.02 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	22.208 mL	OK
		Consumption 4.2 R3	22.552 mL	OK
		Content R5	444.160 mg/L	OK
		ALK LOW R6	437.280 mg/L	OK
49	L2537250-05	Sample size	50 mL	
		Potential R4	6.16 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	NaN mL	Not OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
50	L2537250-06	Sample size	50 mL	
		Potential R4	6.20 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	23.259 mL	OK
		Consumption 4.2 R3	23.619 mL	OK
		Content R5	465.180 mg/L	OK
		ALK LOW R6	457.980 mg/L	OK
51	L2537250-07	Sample size	50 mL	
		Potential R4	5.72 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.099 mL	OK
		Consumption 4.2 R3	3.180 mL	OK
		Content R5	61.980 mg/L	OK
		ALK LOW R6	60.360 mg/L	OK
52	L2537250-08	Sample size	50 mL	
		Potential R4	5.74 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	3.317 mL	OK
		Consumption 4.2 R3	3.431 mL	OK
		Content R5	66.340 mg/L	OK
		ALK LOW R6	64.060 mg/L	OK
53	L2537642-01	Sample size	50 mL	

Titration report

LabX

		Potential R4	5.61 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.889 mL	OK
		Consumption 4.2 R3	2.958 mL	OK
		Content R5	57.780 mg/L	OK
		ALK LOW R6	56.400 mg/L	OK
54	L2537642-02	Sample size	50 mL	
		Potential R4	5.47 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.621 mL	OK
		Consumption 4.2 R3	2.680 mL	OK
		Content R5	52.420 mg/L	OK
		ALK LOW R6	51.240 mg/L	OK
55	L2537642-03	Sample size	50 mL	
		Potential R4	5.50 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.568 mL	OK
		Consumption 4.2 R3	2.623 mL	OK
		Content R5	51.360 mg/L	OK
		ALK LOW R6	50.260 mg/L	OK
56	WG2083603-2	Sample size	50 mL	
		Potential R4	10.72 pH	OK
		Consumption 8.3 R1	4.988 mL	OK
		Consumption 4.5 R2	5.346 mL	OK
		Consumption 4.2 R3	5.346 mL	OK
		Content R5	106.920 mg/L	OK
		ALK LOW R6	106.920 mg/L	OK
57	WG2083603-1	Sample size	50 mL	
		Potential R4	4.42 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	0.017 mL	OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
58	L2537250-01 10x	Sample size	50 mL	
		Potential R4	5.59 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.777 mL	OK
		Consumption 4.2 R3	2.796 mL	OK
		Content R5	55.540 mg/L	OK
		ALK LOW R6	55.160 mg/L	OK
59	L2537250-05 10x	Sample size	50 mL	
		Potential R4	5.60 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	2.865 mL	OK
		Consumption 4.2 R3	2.885 mL	OK
		Content R5	57.300 mg/L	OK

Titration report

LabX

60	CCV	ALK LOW R6	56.900 mg/L	OK
		Sample size	50 mL	
		Potential R4	10.85 pH	OK
		Consumption 8.3 R1	4.906 mL	OK
		Consumption 4.5 R2	5.256 mL	OK
		Consumption 4.2 R3	5.257 mL	OK
61	CCB	Content R5	105.120 mg/L	OK
		ALK LOW R6	105.100 mg/L	OK
		Sample size	50 mL	
		Potential R4	4.26 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
62	CCV	Consumption 4.2 R3	0.002 mL	OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK
		Sample size	50 mL	
		Potential R4	10.95 pH	OK
		Consumption 8.3 R1	4.909 mL	OK
63	CCB	Consumption 4.5 R2	5.271 mL	OK
		Consumption 4.2 R3	5.276 mL	OK
		Content R5	105.420 mg/L	OK
		ALK LOW R6	105.320 mg/L	OK
		Sample size	50 mL	
		Potential R4	4.31 pH	OK
		Consumption 8.3 R1	NaN mL	Not OK
		Consumption 4.5 R2	NaN mL	Not OK
		Consumption 4.2 R3	0.002 mL	OK
		Content R5	NaN mg/L	Not OK
		ALK LOW R6	NaN mg/L	Not OK

Statistics

R1

Mean	NaN mL	Minimum	1.640 mL
Maximum	19.472 mL	Rel. standard deviation	NaN %
Standard deviation	NaN mL	Samples excluded	0
Total samples	63		

R2

Mean	NaN mL	Minimum	0.000 mL
Maximum	23.259 mL	Rel. standard deviation	NaN %
Standard deviation	NaN mL	Samples excluded	0
Total samples	63		

R3

Titration report



Mean NaN mL
Maximum 23.619 mL
Standard deviation NaN mL
Total samples 63

Minimum 0.002 mL
Rel. standard deviation NaN %
Samples excluded 0

R4

Mean 6.28 pH
Maximum 11.67 pH
Standard deviation 2.16 pH
Total samples 63

Minimum 4.26 pH
Rel. standard deviation 34.345 %
Samples excluded 0

R5

Mean NaN mg/L
Maximum 465.180 mg/L
Standard deviation NaN mg/L
Total samples 63

Minimum 0.000 mg/L
Rel. standard deviation NaN %
Samples excluded 0

R6

Mean NaN mg/L
Maximum 457.980 mg/L
Standard deviation NaN mg/L
Total samples 63

Minimum -0.420 mg/L
Rel. standard deviation NaN %
Samples excluded 0

Used Instruments

Name T7 Excellence Titrator **Serial number** C329519495

Responsible User

Time	Login name	Full name
6/26/2025 3:36:54 AM	SystemInternal	System internal account

(17) Data compression on instrument occurred

Quality Control

Form 6 Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Client Sample ID	: MW-12D	Matrix	: WATER
Lab Sample ID	: L2538382-06	Analysis Date	: 06/26/25 06:03
Dup Sample ID	: WG2083602-2	DUP Analysis Date	: 06/26/25 06:04

Parameter	Sample Concentration (mg CaCO3/L)	Duplicate Concentration (mg CaCO3/L)	RPD	RPD Limit
Alkalinity, Carbonate	ND	ND	NC	10
Alkalinity, Bicarbonate	26.9	27.6	3	9



Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

[illegible]

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soll/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of the laboratory.

Calculations of Alkalinity

$$\text{Alkalinity, mg CaCO}_3/\text{L} = \frac{A \times N \times 50,000}{\text{mL Sample}}$$

Where:

A = mL of the standard acid titrated

N = normality of the standard acid

Results are calculated using Mettler Toledo software.

Standard sample size is 50mL, 0.02N Sulfuric acid for titration

Sequence Logs

CAL	250626	LCS	7.01 INT:
pH 4	3484	Titrant:	4298 MRM
pH 7	3386	LCS:	3530
pH 10	3482	MS:	3529
LCS	3523		

- 1 Rinse,MRM
- 2 Rinse,MRM
- 3 Rinse,MRM
- 4 BLANK
- 5 LCS
- 6 BLANK
- 7 LCS
- 8 L2536981-04 10x
- 9 L2536981-05 10x
- 10 L2536981-06 10x
- 11 L2536981-07 10x
- 12 L2537427-02
- 13 L2537427-02
- 14 L2537427-04
- 15 WG2083600-3
- 16 WG2083600-4
- 17 L2537427-07
- 18 L2537427-11
- 19 WG2083600-2
- 20 WG2083600-1
- 21 LCS
- 22 WG2083601-1
- 23 L2537053-03
- 24 WG2083601-2
- 25 L2538061-01
- 26 L2538061-04
- 27 L2538382-01
- 28 L2538382-02
- 29 L2538382-03
- 30 L2538382-04
- 31 L2538382-05
- 32 L2538382-06
- 33 WG2083602-2
- 34 L2538382-07
- 35 LCS
- 36 WG2083602-1
- 37 L2537327-01
- 38 L2537327-02
- 39 WG2083603-3
- 40 WG2083603-4
- 41 L2537098-03 10x

42 L2537098-05 10x
43 L2537227-01
44 L2537227-02
45 L2537250-01
46 L2537250-02
47 L2537250-03
48 L2537250-04
49 L2537250-05
50 L2537250-06
51 L2537250-07
52 L2537250-08
53 L2537642-01
54 L2537642-02
55 L2537642-03
56 WG2083603-2
57 WG2083603-1
58 L2537250-01 10x
59 L2537250-05 10x
60 CCV
61 CCB
62 CCV
63 CCB

Chloride Analysis

Results

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-01	Date Collected	: 06/18/25 09:00
Client ID	: MW-8S	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/26/25 09:11
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500CL-E	Analyst	: MRM
Lab File ID	: CL250626-B1	Instrument ID	: LACHAT
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
16887-00-6	Chloride	12.	1.0	0.89	

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-02	Date Collected	: 06/18/25 09:05
Client ID	: MW-8D	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/26/25 09:12
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500CL-E	Analyst	: MRM
Lab File ID	: CL250626-B1	Instrument ID	: LACHAT
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
16887-00-6	Chloride	28.	1.0	0.89	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-03	Date Collected	: 06/18/25 10:30
Client ID	: MW-5D	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/26/25 09:12
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500CL-E	Analyst	: MRM
Lab File ID	: CL250626-B1	Instrument ID	: LACHAT
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
16887-00-6	Chloride	28.	1.0	0.89	

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-04	Date Collected	: 06/18/25 10:45
Client ID	: PZ-5	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/26/25 09:29
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500CL-E	Analyst	: MRM
Lab File ID	: CL250626-C1	Instrument ID	: LACHAT
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
16887-00-6	Chloride	3.1	1.0	0.89	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-05	Date Collected	: 06/18/25 13:20
Client ID	: MW-12S	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/26/25 09:29
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500CL-E	Analyst	: MRM
Lab File ID	: CL250626-C1	Instrument ID	: LACHAT
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
16887-00-6	Chloride	45.	1.0	0.89	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-06	Date Collected	: 06/18/25 13:22
Client ID	: MW-12D	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/26/25 09:30
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500CL-E	Analyst	: MRM
Lab File ID	: CL250626-C1	Instrument ID	: LACHAT
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
16887-00-6	Chloride	18.	1.0	0.89	

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-07	Date Collected	: 06/18/25 12:00
Client ID	: DUP_06182025	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/26/25 09:32
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500CL-E	Analyst	: MRM
Lab File ID	: CL250626-C1	Instrument ID	: LACHAT
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
16887-00-6	Chloride	40.	1.0	0.89	

Form 1

WETCHEM

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Lab ID : WG2083612-1
Client ID : WG2083612-1BLANK
Sample Location :
Sample Matrix : WATER
Analytical Method : 121,4500CL-E
Lab File ID : CL250626-A1
Sample Amount :
Digestion Method :

Lab Number : L2538382
Project Number : 2232.0006Y005
Date Collected : NA
Date Received : NA
Date Analyzed : 06/26/25 05:28
Dilution Factor : 1
Analyst : MRM
Instrument ID : LACHAT
%Solids : N/A
Date Digested :

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
16887-00-6	Chloride	ND	1.0	0.89	U



Form 1
WETCHEM

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Lab ID : WG2083612-3
Client ID : MW-12DDUP
Sample Location :
Sample Matrix : WATER
Analytical Method : 121,4500CL-E
Lab File ID : CL250626-C1
Sample Amount :
Digestion Method :

Lab Number : L2538382
Project Number : 2232.0006Y005
Date Collected : 06/18/25 13:22
Date Received : 06/18/25
Date Analyzed : 06/26/25 09:31
Dilution Factor : 1
Analyst : MRM
Instrument ID : LACHAT
%Solids : N/A
Date Digested :

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
16887-00-6	Chloride	17.	1.0	0.89	

Sample Raw Data

Author:

Date : 6/26/2025

Original Run Filename: OM_6-26-2025_05-01-50AM.OMN Created: 6/26/2025 5:01:50 AM

Original Run Author's Signature: [a1wetcheminstrument]

Current Run Filename: OM_6-26-2025_05-01-50AM.OMN Last Modified: 6/26/2025 6:36:46 AM

Current Run Author's Signature: [a1wetcheminstrument]

Description: Default New Run

Sample	Rep.	Cup No.	Channel 1 Chloride- CH3 (mg Cl/L)	ADF	MDF	Weight
Sample1	1	S1	100.00000			
Sample2	1	S2	80.00000			
Sample3	1	S3	20.00000			
Sample4	1	S4	10.00000			
Sample5	1	S5	5.00000			
Sample6	1	S6	2.00000			
Sample7	1	S7	1.00000			
Sample8	1	S9	0.00000			
CCV	1	S3	18.70963			
Known Conc:			20.00000			
Calibration:			Table/Fig. : 1			
CCB	1	S9	0.29437			
Known Conc:			0.00000			
ICV 5	1	1	4.59990			
ICV 30	1	2	27.40572			
ICV 80	1	3	81.57982			
ICB	1	4	0.60724			
100 PPM	1	5	115.60600	10.00		
WG2083605-1	1	6	0.34972			
WG2083605-2	1	7	28.33343			
WG2083607-1	1	8	0.37274			
WG2083607-2	1	9	28.09099			
100 PPM	1	5	98.79527	10.00		
CCV	1	S3	18.57130			
Known Conc:			20.00000			
CCB	1	S9	0.43135			
Known Conc:			0.00000			
WG2083608-1	1	10	0.46220			
WG2083608-2	1	11	27.67682			
WG2083609-1	1	12	0.05614			
WG2083609-2	1	13	28.92168			
WG2083610-1	1	14	0.47395			
WG2083610-2	1	15	28.78122			
WG2083611-1	1	16	0.54426			
WG2083611-2	1	17	28.11936			
WG2083612-1	1	18	0.41798			
WG2083612-2	1	19	28.66549			
CCV	1	S3	18.86148			
Known Conc:			20.00000			
CCB	1	S9	0.53628			
Known Conc:			0.00000			
L2536731-01	1	20	1.00500			
WG2083605-3	1	21	0.80817			
WG2083605-4	1	22	20.79933			
L2536731-02	1	23	4.49828			
L2536731-03	1	24	5.96781			
L2536731-04	1	25	72.34670			
L2536731-05	1	26	25.83103			
L2536731-06	1	27	2.70800			
L2536731-07	1	28	1.55307			
L2536731-08	1	29	1.38494			
CCV	1	S3	18.36441			
Known Conc:			20.00000			
CCB	1	S9	0.48908			
Known Conc:			0.00000			
L2537250-01	1	30	71.87006			
WG2083605-5	1	31	71.62495			
WG2083605-6	1	32	86.58141			

Author:

Date : 6/26/2025

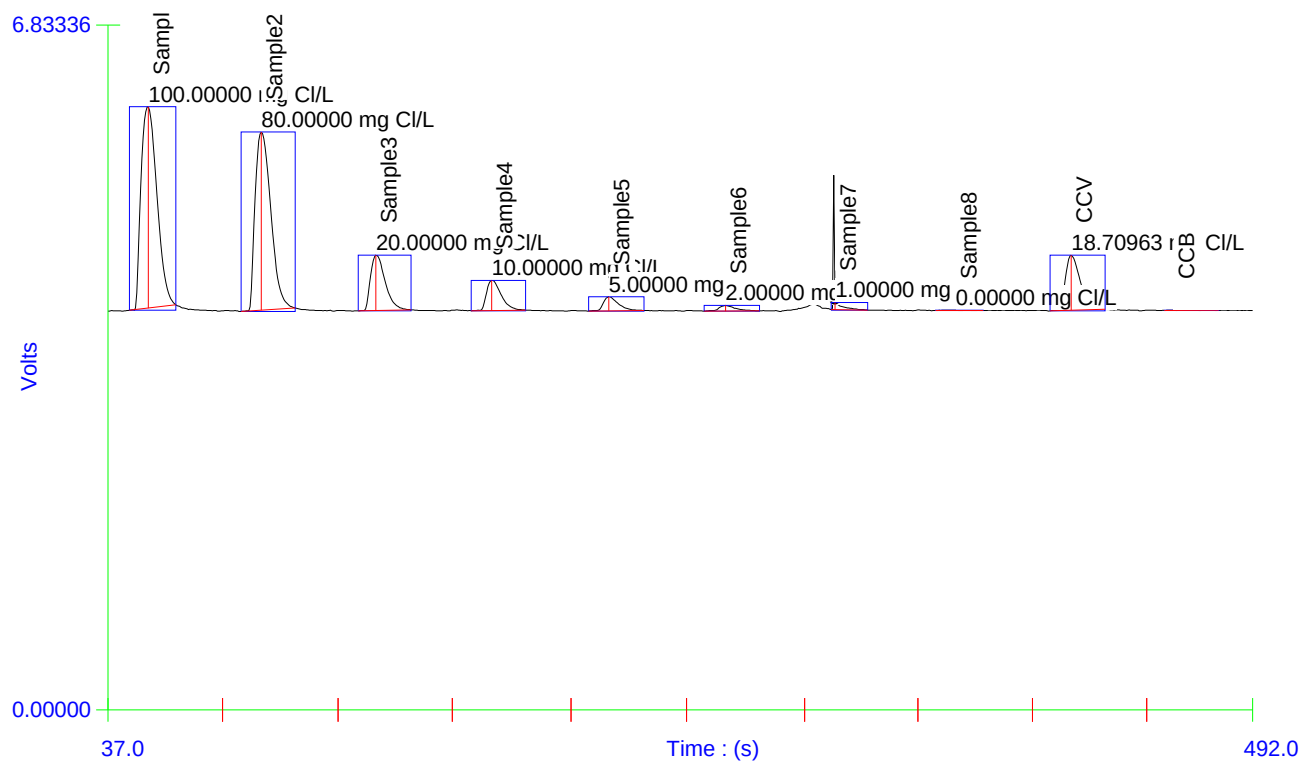
L2537250-02	1	33	140.78531			
L2537250-03	1	34	9.67974			
L2537250-04	1	35	96.98473			
L2537250-05	1	36	158.09749			
L2537250-06	1	37	84.62646			
L2537250-07	1	38	137.70543			
L2537250-08	1	39	150.17363			
CCV	1	S3	18.70031			
		Known Conc:	20.00000			
CCB	1	S9	0.40197			
		Known Conc:	0.00000			
L2536262-01	1	40	6.39384	10.00		
WG2083607-5	1	41	2.64668			
WG2083607-6	1	42	22.42580			
L2536262-02	1	43	192.35147			
L2536262-03	1	44	107.19729			
L2536262-04	1	45	129.03819			
L2536262-05	1	46	141.24883			
L2536262-06	1	47	77.10587			
L2536262-07	1	48	165.98816			
L2536262-08	1	49	259.56165			
CCV	1	S3	19.82248			
		Known Conc:	20.00000			
CCB	1	S9	0.70032			
		Known Conc:	0.00000			
L2536262-09	1	50	39.80910			
L2536262-10	1	51	72.51138			
L2536262-11	1	52	91.60213			
L2536262-12	1	53	73.60716			
L2537002-01	1	54	85.75010			
WG2083607-3	1	55	85.46320			
WG2083607-4	1	56	102.61384			
L2537002-02	1	57	7.95374			
L2537002-03	1	58	2.13204			
L2537002-04	1	59	34.07636			
CCV	1	S3	18.33393			
		Known Conc:	20.00000			
CCB	1	S9	0.33390			
		Known Conc:	0.00000			
L2537002-05	1	60	145.93149			
L2537002-06	1	61	34.29175			
L2537002-07	1	62	33.90811			
L2536185-04	1	63	4.07821			
WG2083608-3	1	64	5.94038			
WG2083608-4	1	65	21.27854			
L2536614-02	1	66	26.75118			
L2537302-04	1	67	253.05040			
WG2083609-3	1	68	259.97522			
WG2083609-4	1	69	264.37198			
CCV	1	S3	19.84811			
		Known Conc:	20.00000			
CCB	1	S9	0.67715			
		Known Conc:	0.00000			
L2536268-04	1	70	0.62079			
L2536592-01	1	71	2.36743			
L2536592-02	1	72	4.85143			
L2536592-04	1	73	107.67565			
L2536592-05	1	74	1.01478			
L2536592-06	1	75	1.01943			
L2536592-07	1	76	0.23361			
L2536592-08	1	77	2.57100			
L2536592-09	1	78	38.03556			
L2536592-10	1	79	1.84864			
CCV	1	S3	18.53522			
		Known Conc:	20.00000			
CCB	1	S9	0.33791			
		Known Conc:	0.00000			
L2536592-11	1	80	2.89467			

Author:

Date : 6/26/2025

L2536592-12	1	81	6.16567			
L2536592-13	1	82	4.58347			
L2536592-14	1	83	1.86144			
L2536592-15	1	84	2.89311			
L2536592-16	1	85	0.44252			
L2536592-17	1	86	2.37590			
L2536592-18	1	87	28.55390			
L2537046-01	1	88	1.88287			
L2537046-02	1	89	3.07692			
CCV	1	S3	18.24465			
Known Conc:			20.00000			
CCB	1	S9	0.60506			
Known Conc:			0.00000			

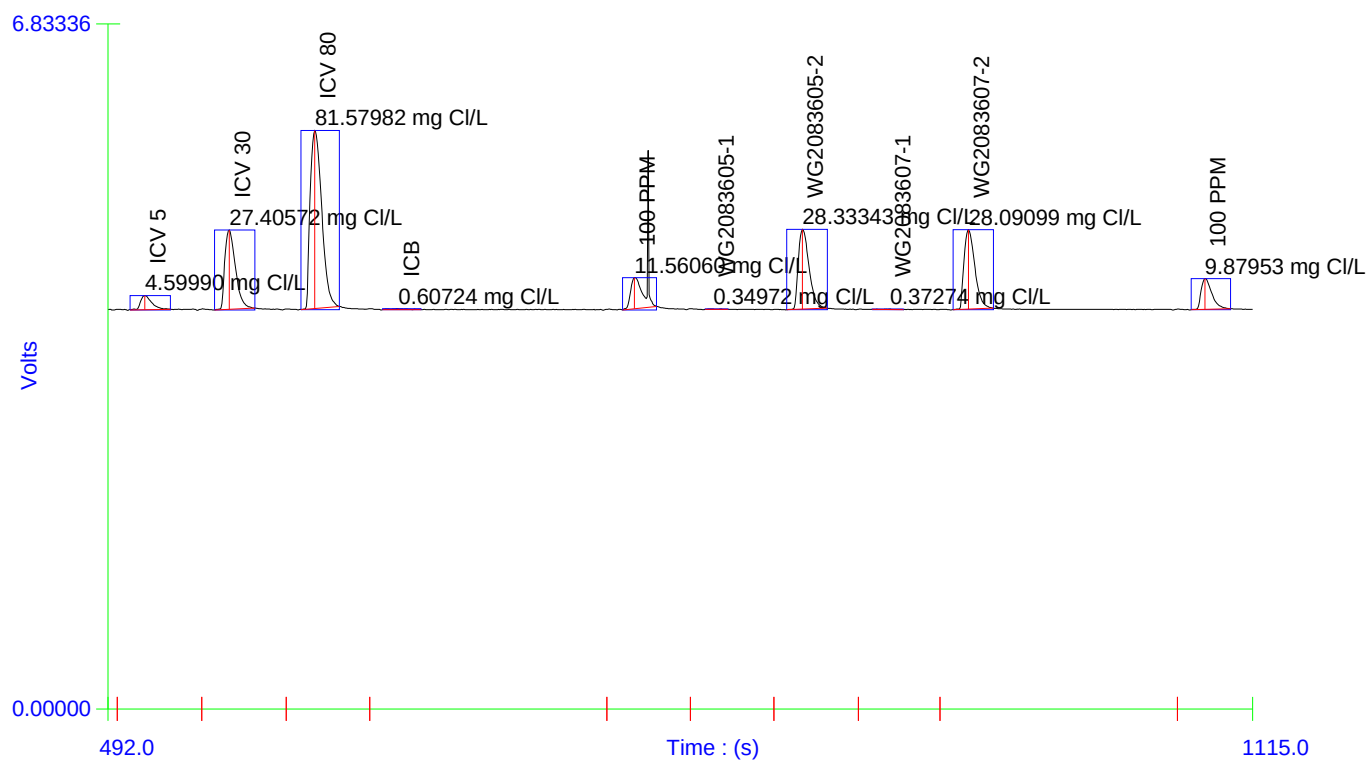
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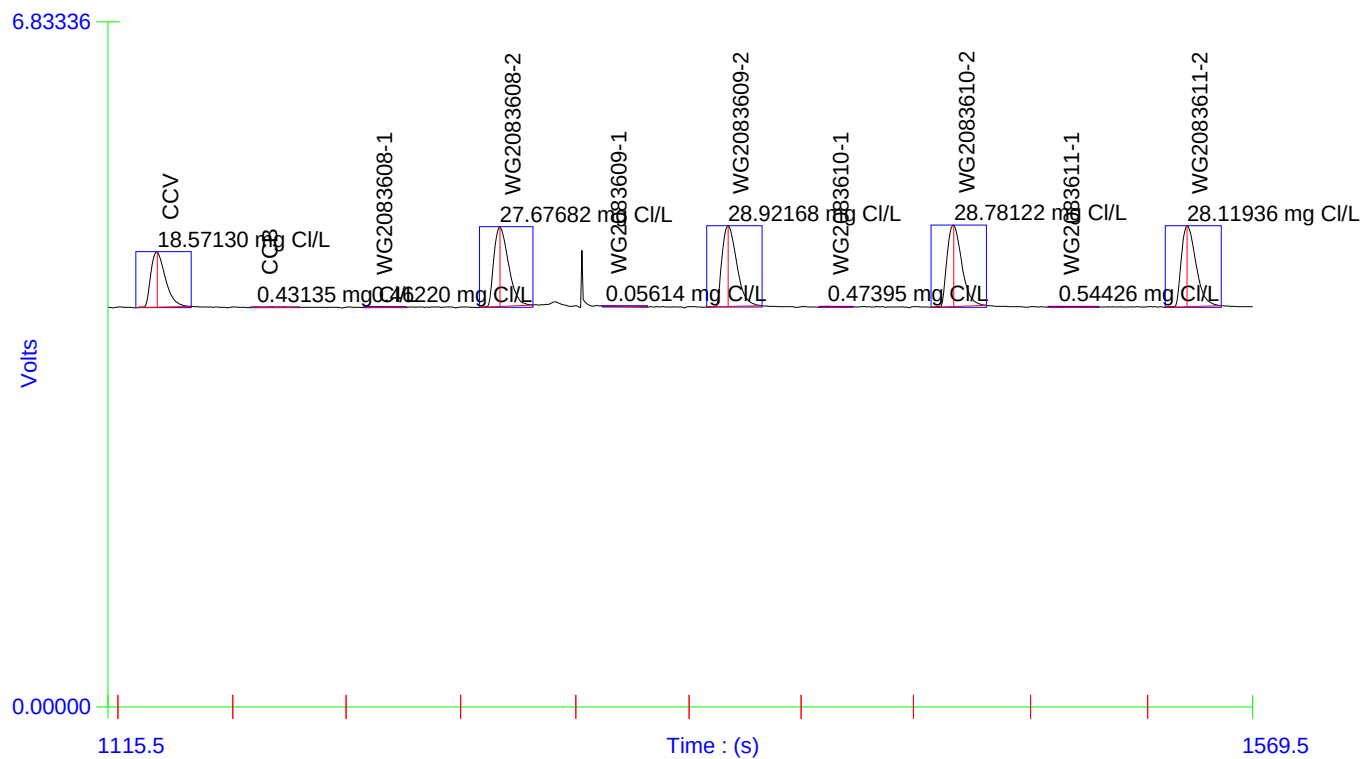
Author:

Date : 6/26/2025

Channel 1 (Chloride) - Set: 2 / 12



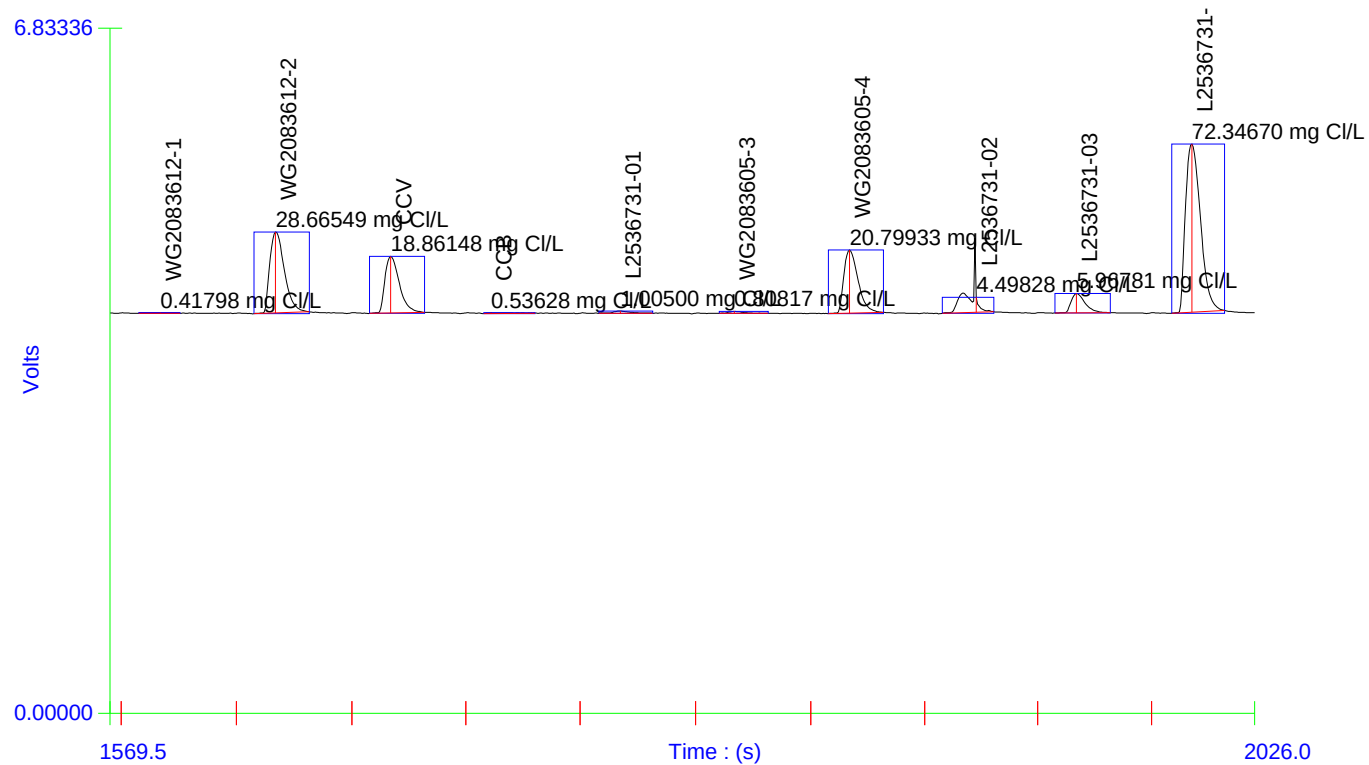
Channel 1 (Chloride) - Set: 3 / 12



Author:

Date : 6/26/2025

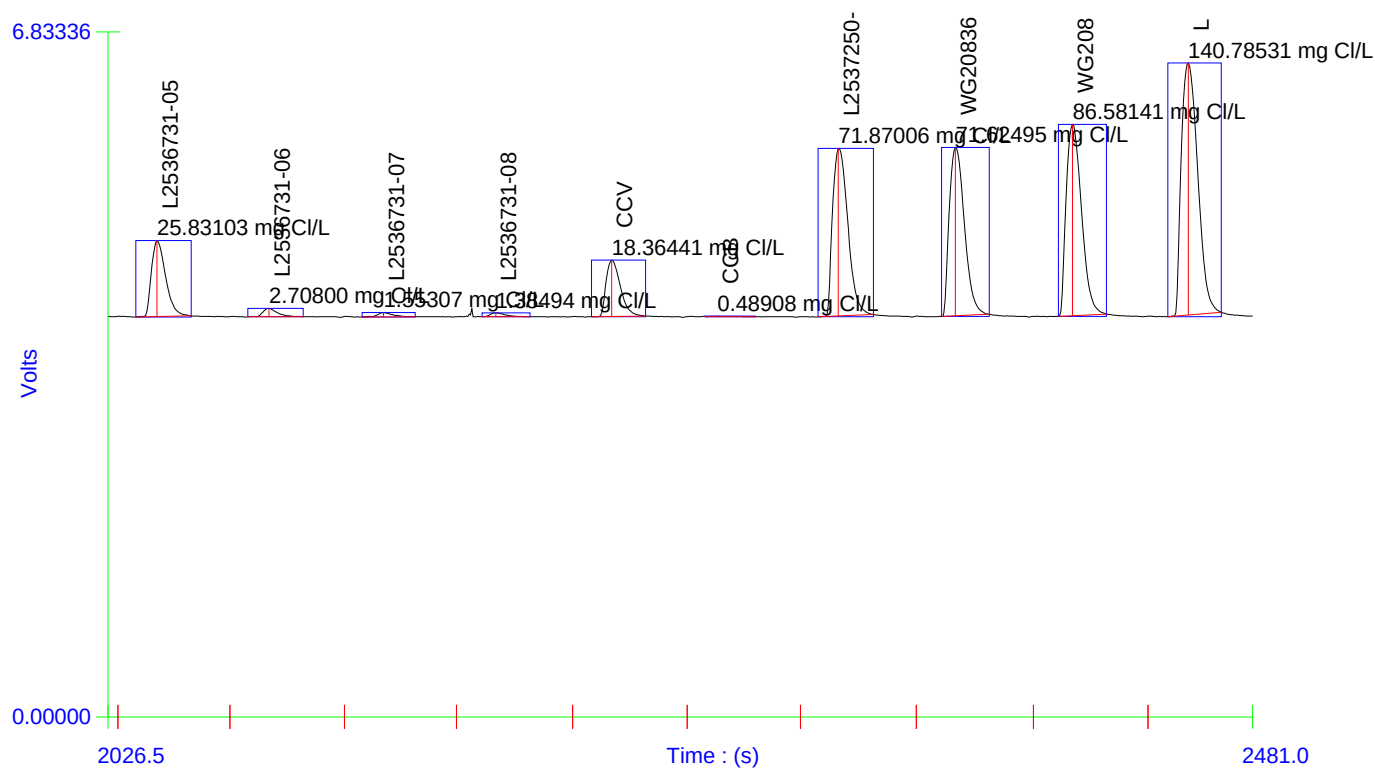
Channel 1 (Chloride) - Set: 4 / 12



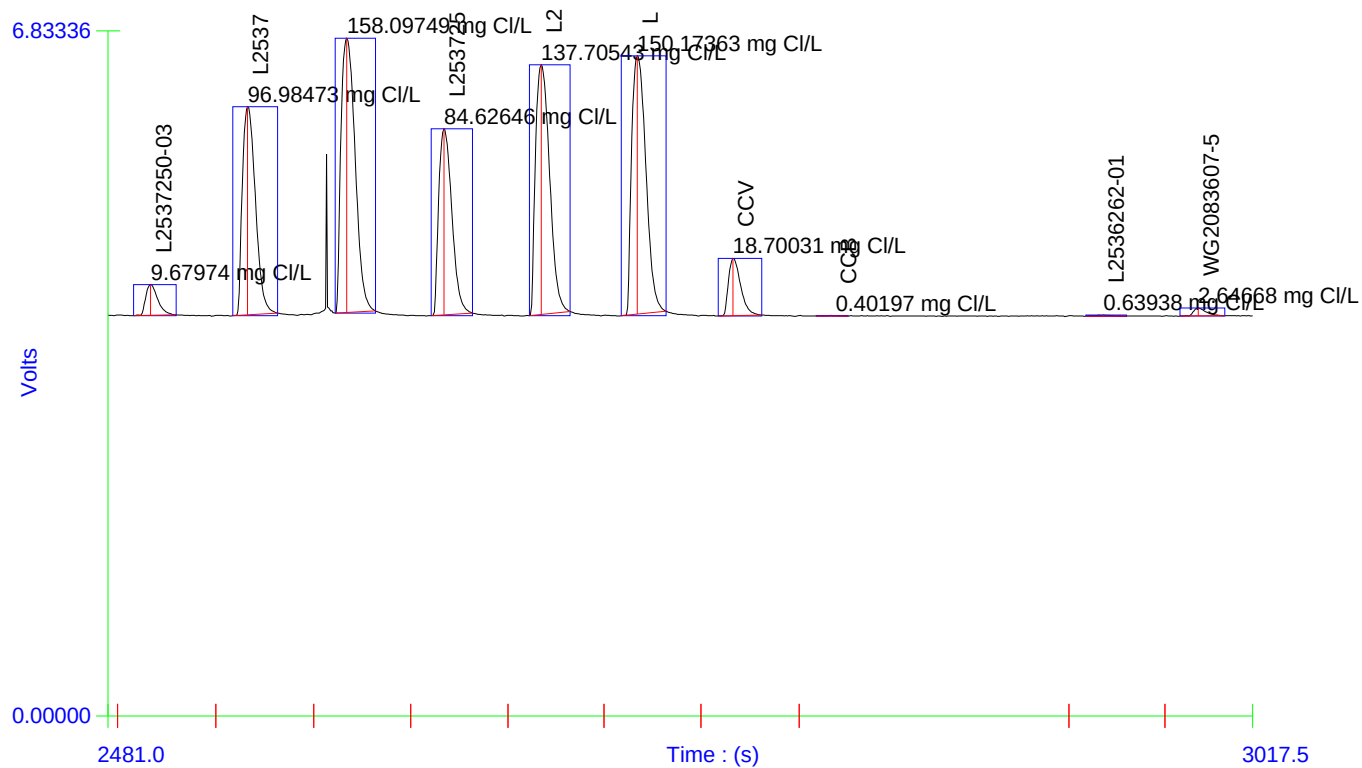
Author:

Date : 6/26/2025

Channel 1 (Chloride) - Set: 5 / 12



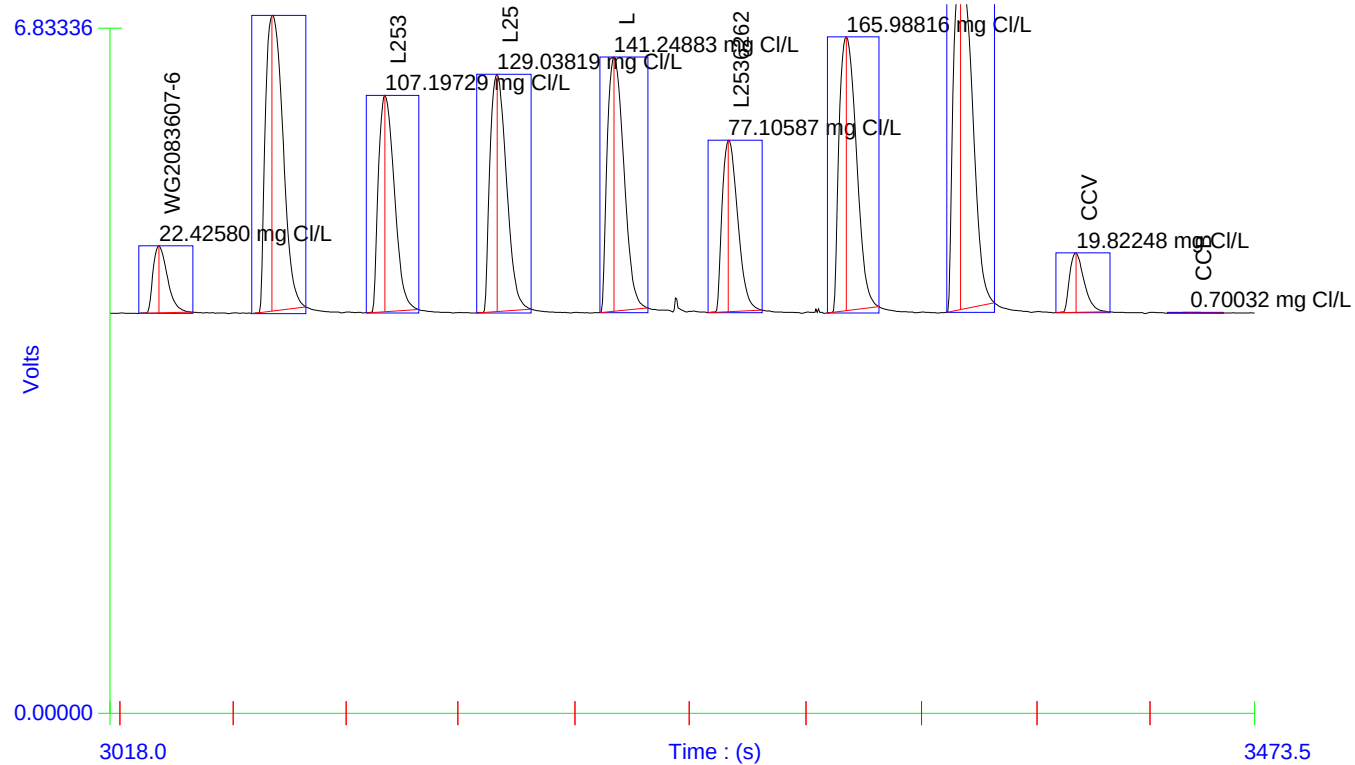
Channel 1 (Chloride) - Set: 6 / 12



Author:

Date : 6/26/2025

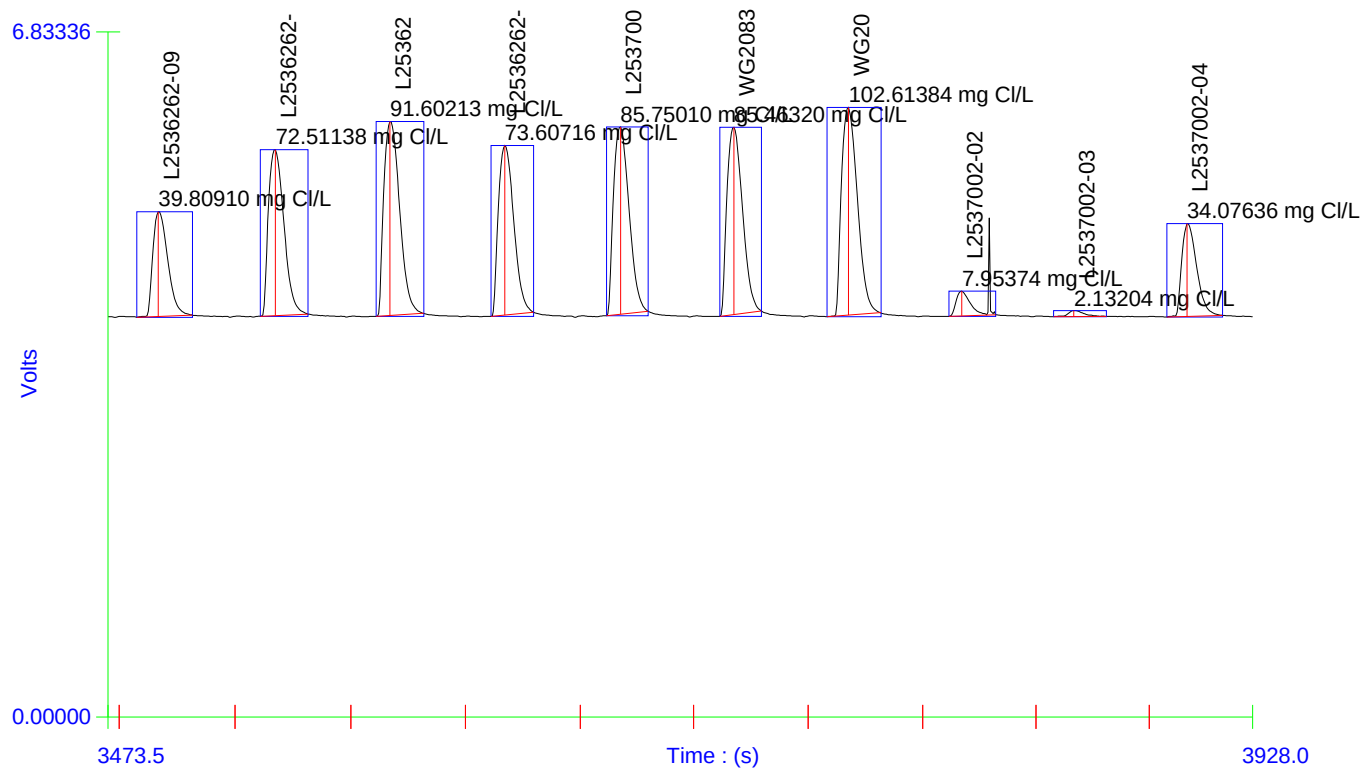
Channel 1 (Chloride) - Set: 7 / 12



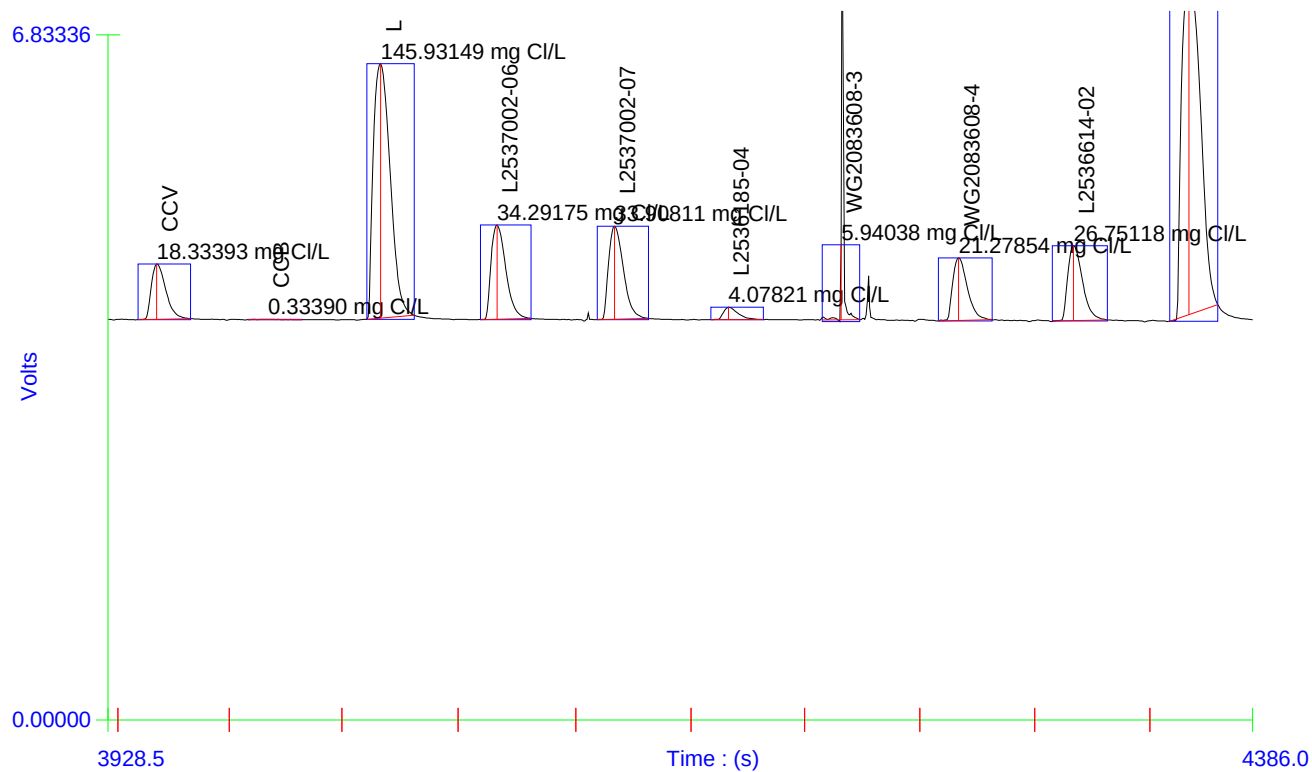
Author:

Date : 6/26/2025

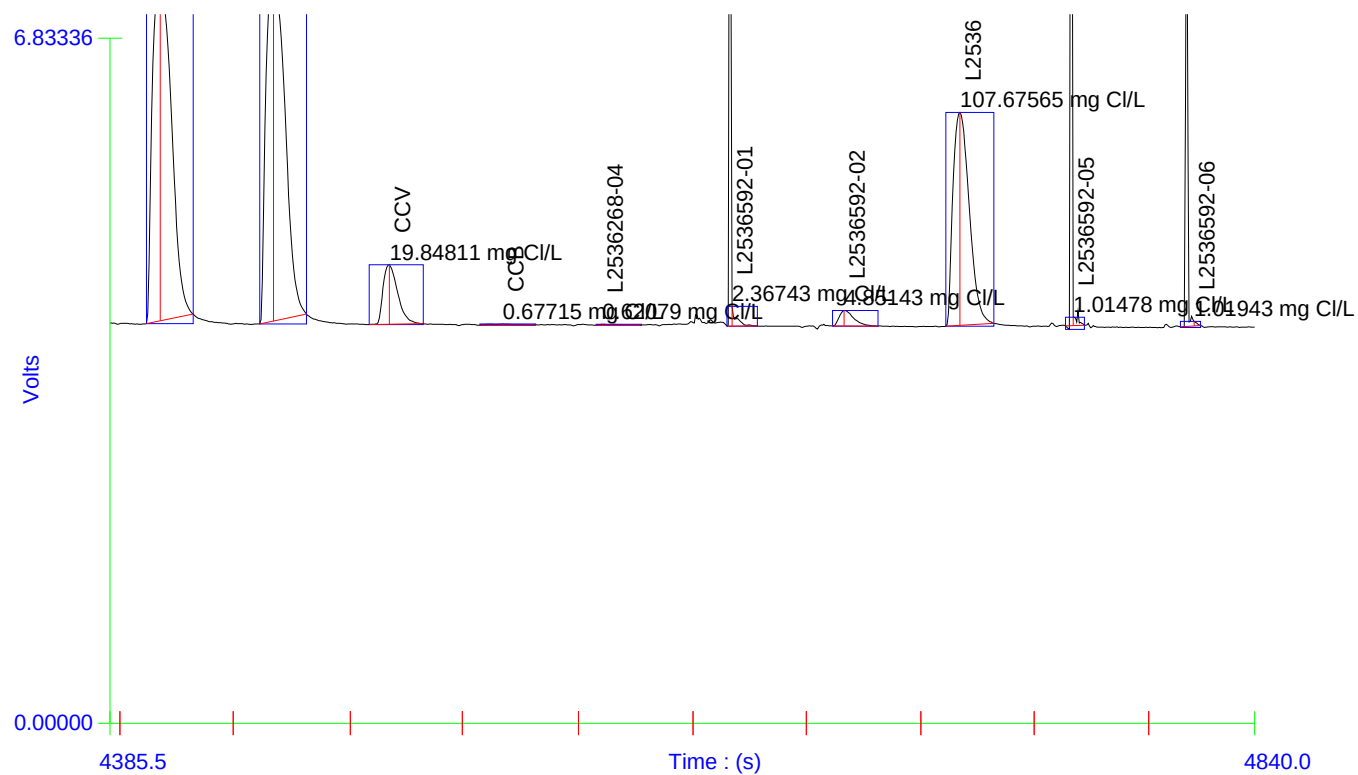
Channel 1 (Chloride) - Set: 8 / 12



Channel 1 (Chloride) - Set: 9 / 12



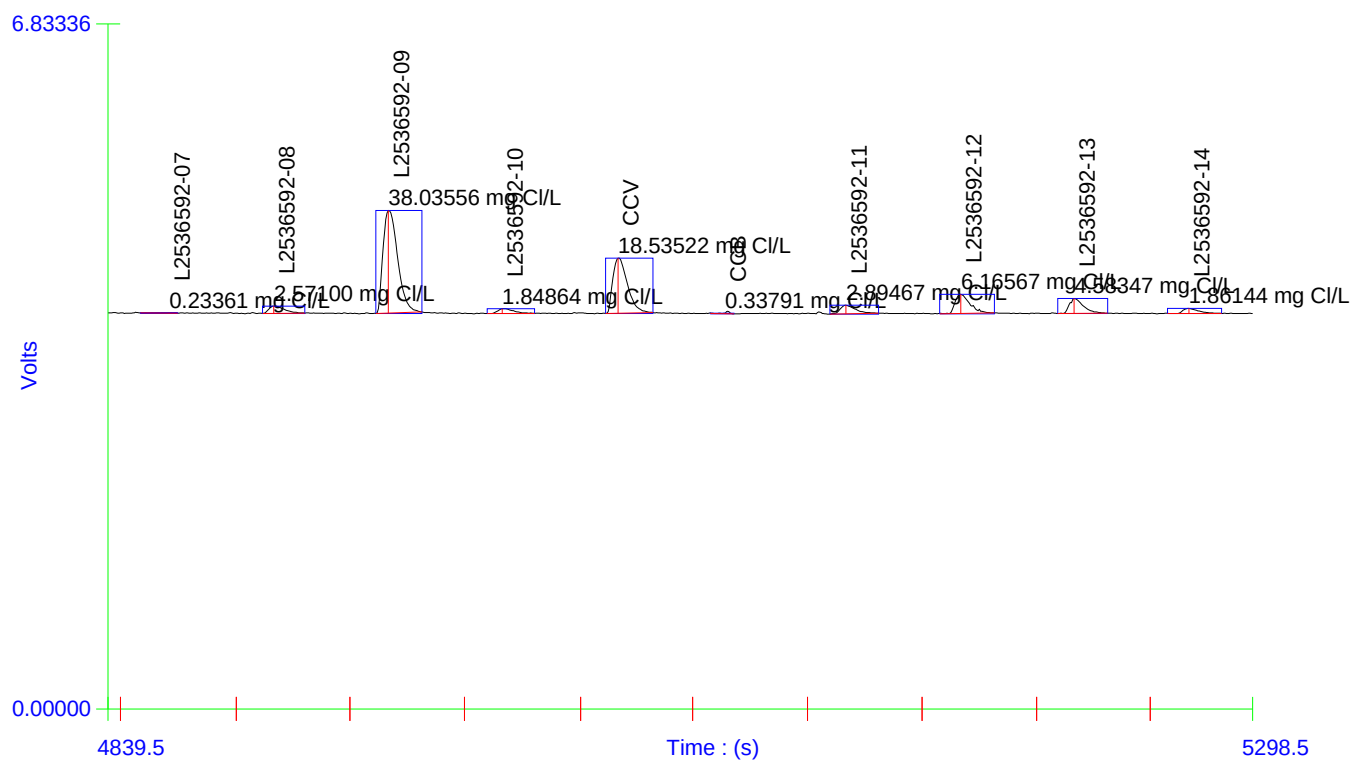
Channel 1 (Chloride) - Set: 10 / 12



Author:

Date : 6/26/2025

Channel 1 (Chloride) - Set: 11 / 12



Channel 1 (Chloride) - Set: 12 / 12

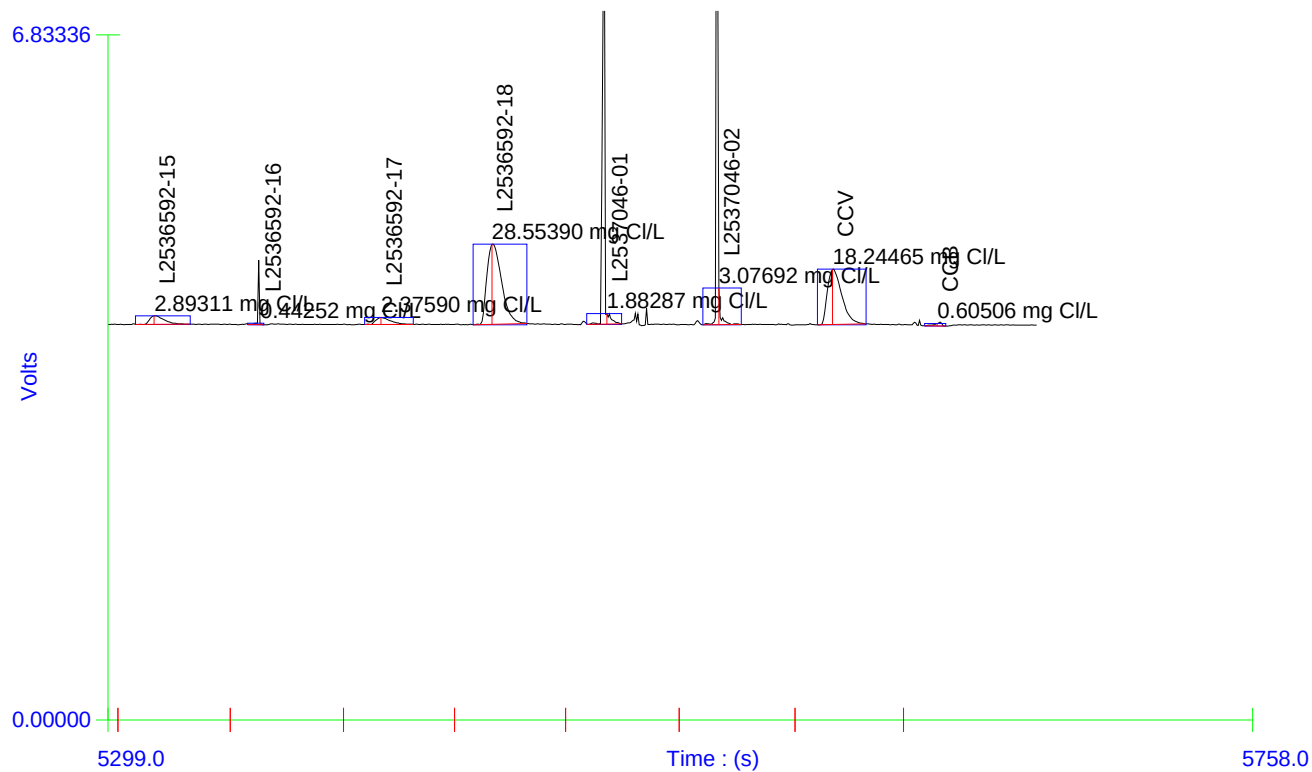
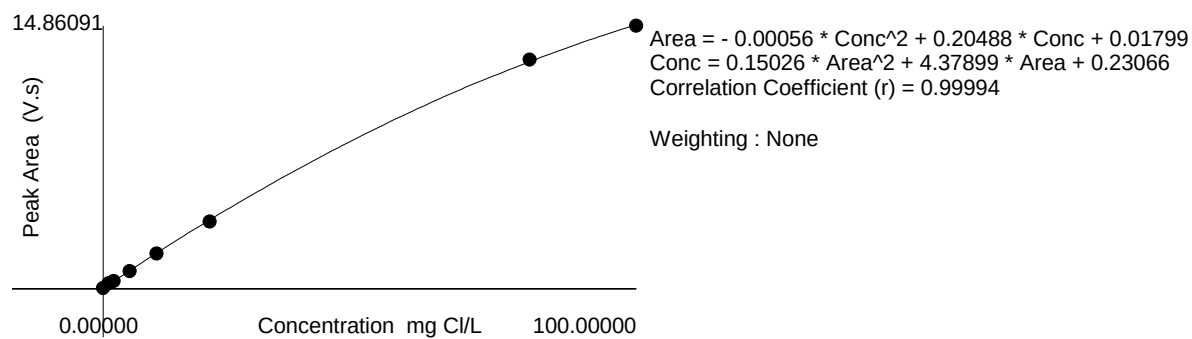


Table : 1 (Chloride-CH3)

	Known Conc. (mg Cl/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg Cl/L)	Detection Date	Detection Time
1	100.00000	1	14.86091	2.00906	0.0	0.4	98.49175	6/26/2025	5:02:40 AM
2	80.00000	1	12.94323	1.77748	0.0	-0.8	82.08224	6/26/2025	5:03:25 AM
3	20.00000	1	3.80060	0.55141	0.0	2.4	19.04396	6/26/2025	5:04:11 AM
4	10.00000	1	1.99534	0.29985	0.0	0.8	9.56651	6/26/2025	5:04:57 AM
5	5.00000	1	0.99017	0.13953	0.0	3.7	4.71394	6/26/2025	5:05:44 AM
6	2.00000	1	0.42828	0.05548	0.0	-0.6	2.13365	6/26/2025	5:06:30 AM
7	1.00000	1	0.30264	0.07072	0.0	-36.1	1.56969	6/26/2025	5:07:18 AM
8	0.00000	1	0.03822	0.00381			0.39827	6/26/2025	5:08:02 AM

Figure : 1 (Chloride-CH3)



Author:

Date : 6/26/2025

Original Run Filename: OM_6-26-2025_06-38-25AM.OMN Created: 6/26/2025 6:38:25 AM

Original Run Author's Signature: [a1wetcheminstrument]

Current Run Filename: OM_6-26-2025_06-38-25AM.OMN Last Modified: 6/26/2025 9:24:55 AM

Current Run Author's Signature: [a1wetcheminstrument]

Description: Default New Run

Sample	Rep.	Cup No.	Channel 1 Chloride- CH3 (mg Cl/L)	ADF	MDF	Weight
CCV	1	S3	18.24830			
Known Conc:			20.00000			
CCB	1	S9	0.36530			
Known Conc:			0.00000			
Calibration:			Table/Fig. : 1			
L2536731-01	1	20	0.92911			
WG2083605-3	1	21	0.78664			
L2536731-02	1	23	5.56594			
L2537250-02	1	33	150.50343	10.00		
L2537250-03	1	34	9.08222			
L2537250-04	1	35	97.81419	10.00		
L2537250-05	1	36	196.74606	10.00		
L2537250-06	1	37	85.91622			
L2537250-07	1	38	152.12970	10.00		
L2537250-08	1	39	161.22557	10.00		
CCV	1	S3	18.37925			
Known Conc:			20.00000			
CCB	1	S9	0.37333			
Known Conc:			0.00000			
L2536262-01	1	40	2.61669			
WG2083607-5	1	41	2.62585			
L2536262-02	1	43	248.97169	10.00		
L2536262-03	1	44	104.56216	10.00		
L2536262-04	1	45	131.15120	10.00		
L2536262-05	1	46	154.77716	10.00		
L2536262-06	1	47	76.39965			
L2536262-07	1	48	199.74252	10.00		
L2536262-08	1	49	439.23181	10.00		
L2536262-11	1	52	85.68919	10.00		
CCV	1	S3	18.41868			
Known Conc:			20.00000			
CCB	1	S9	0.34139			
Known Conc:			0.00000			
WG2083607-4	1	56	4.05220	10.00		
L2537002-02	1	57	7.41610			
L2537002-05	1	60	160.54010	10.00		
L2537002-06	1	61	34.32368			
L2536185-04	1	63	4.05333			
WG2083608-3	1	64	2.07414			
L2537302-04	1	67	433.35980	10.00		
WG2083609-3	1	68	436.15717	10.00		
WG2083609-4	1	69	448.12115	10.00		
L2536592-01	1	71	2.40854			
CCV	1	S3	18.62560			
Known Conc:			20.00000			
CCB	1	S9	0.41863			
Known Conc:			0.00000			
L2536592-01	1	71	7.96328	10.00		
L2536592-04	1	73	113.16196	10.00		
L2536592-05	1	74	0.48274			
L2536592-05	1	74	3.29118	10.00		
L2536592-06	1	75	2.51575			
L2536592-06	1	75	329.36279	10.00		
L2536592-06	1	75	235.62091			
WG2083607-4	1	56	4.71675	10.00		
L2536592-16	1	85	0.39765			
L2536185-04	1	63	3.92781			
CCV	1	S3	18.37579			

Author:

Date : 6/26/2025

	Known Conc:		20.00000			
CCB	1	S9	0.33247			
	Known Conc:		0.00000			
WG2083608-3	1	64	3.98666			
WG2083607-4	1	56	98.91763	10.00		
L2537046-01	1	88	3.92552			
L2537046-02	1	89	5.38485			
L2537046-03	1	90	145.94936			
WG2083610-3	1	91	145.43106			
WG2083610-4	1	92	157.62148			
L2537046-04	1	93	145.65218			
L2537046-05	1	94	126.57931			
WG2083610-5	1	95	127.40936			
CCV	1	S3	19.56276			
	Known Conc:		20.00000			
CCB	1	S9	0.42506			
	Known Conc:		0.00000			
WG2083610-6	1	96	135.02956			
L2537046-06	1	97	102.10950			
L2537046-07	1	98	18.40797			
L2537046-08	1	99	39.83911			
L2537046-09	1	100	0.42843			
L2537046-10	1	101	188.87117			
L2537046-11	1	102	3.20249			
L2537046-12	1	103	0.42983			
L2537046-13	1	104	22.52842			
L2537046-14	1	105	134.40408			
CCV	1	S3	18.97862			
	Known Conc:		20.00000			
CCB	1	S9	0.37958			
	Known Conc:		0.00000			
L2537046-15	1	106	35.47350			
L2537046-16	1	107	1.76211			
L2537046-17	1	108	0.52320			
L2537046-18	1	109	2.86953			
L2537046-03	1	90	157.98256	10.00		
WG2083610-3	1	91	158.03963	10.00		
WG2083610-4	1	92	172.53943	10.00		
L2537046-04	1	93	156.22733	10.00		
L2537046-05	1	94	120.80941	10.00		
WG2083610-5	1	95	121.21815	10.00		
CCV	1	S3	18.36839			
	Known Conc:		20.00000			
CCB	1	S9	0.38860			
	Known Conc:		0.00000			
WG2083610-6	1	96	138.15503	10.00		
L2537046-06	1	97	94.63870	10.00		
L2537046-07	1	98	17.74604			
L2537046-10	1	101	248.49016	10.00		
L2537046-11	1	102	2.61382			
L2537046-14	1	105	140.49973	10.00		
L2536690-01	1	110	49.53256	10.00		
WG2083611-3	1	111	51.47083	10.00		
WG2083611-4	1	112	65.81696	10.00		
L2536690-02	1	113	401.38898	10.00		
CCV	1	S3	18.01451			
	Known Conc:		20.00000			
CCB	1	S9	0.43686			
	Known Conc:		0.00000			
L2537088-01	1	114	108.77143	10.00		
L2537088-02	1	115	217.14890	10.00		
L2537088-03	1	116	216.21353	10.00		
L2537090-01	1	117	908.74054	10.00		
L2537090-02	1	118	1733.81335	10.00		
L2537090-03	1	119	0.60021			
L2537398-01	1	120	12.76264	10.00		
L2537398-02	1	121	193.37434	10.00		
L2537398-03	1	122	261.09772	10.00		

Author:

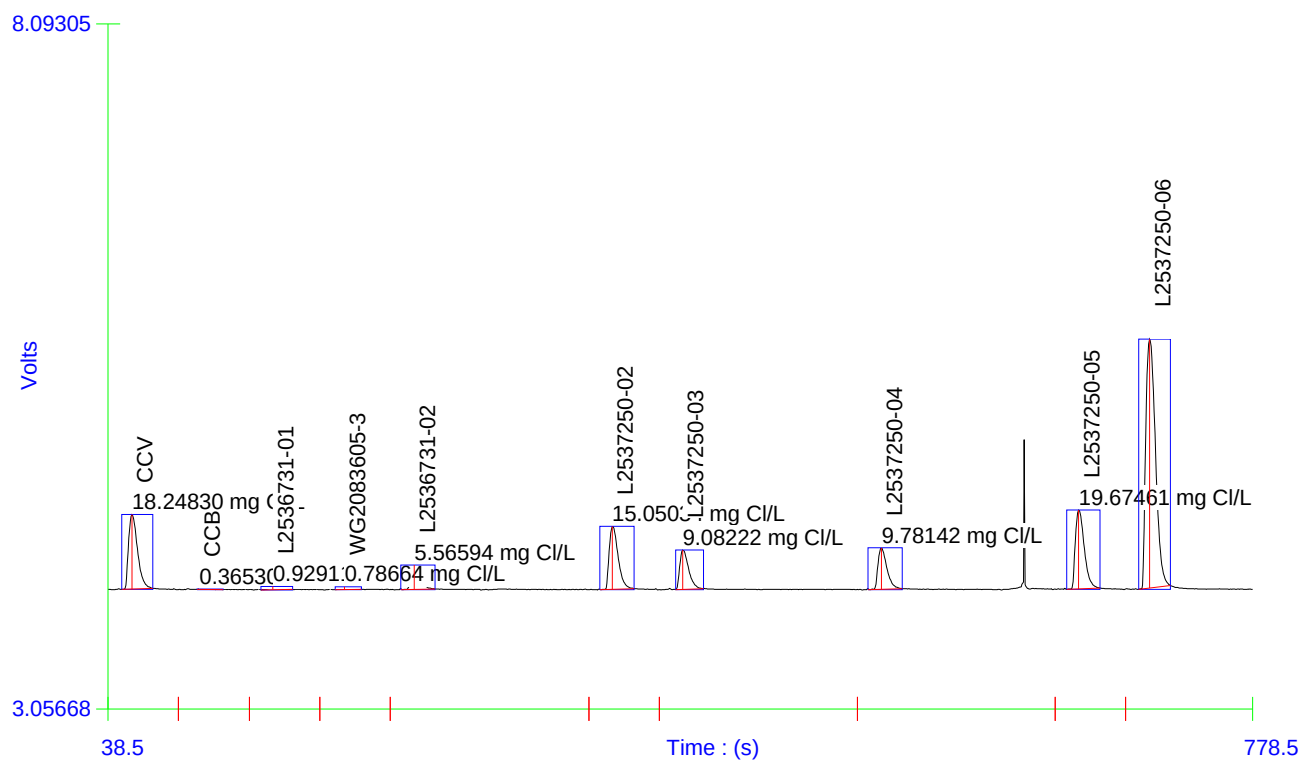
Date : 6/26/2025

L2537398-04	1	123	541.31177	10.00		
CCV	1	S3	18.24675			
	Known Conc:		20.00000			
CCB	1	S9	0.69971			
	Known Conc:		0.00000			
L2537398-05	1	124	0.38521			
L2537063-01	1	125	5.68006			
L2537063-02	1	126	1.02638			
L2537063-03	1	127	7.04839			
L2537063-04	1	128	3.45633			
L2537063-05	1	129	5.83384			
L2537063-06	1	130	0.76587			
L2538382-01	1	131	12.15140			
L2538382-02	1	132	27.65643			
L2538382-03	1	133	28.37906			
CCV	1	S3	18.28907			
	Known Conc:		20.00000			
CCB	1	S9	0.42692			
	Known Conc:		0.00000			
L2538382-04	1	134	3.03610			
L2538382-05	1	135	45.17506			
L2538382-06	1	136	18.05856			
WG2083612-3	1	137	17.78246			
WG2083612-4	1	138	37.21585			
L2538382-07	1	139	40.29178			
L2539680-01	1	140	58.65023			
L2536690-01	1	110	60.05704			
WG2083611-3	1	111	58.77419			
WG2083611-4	1	112	77.81499			
CCV	1	S3	18.04416			
	Known Conc:		20.00000			
CCB	1	S9	1.18262			
	Known Conc:		0.00000			

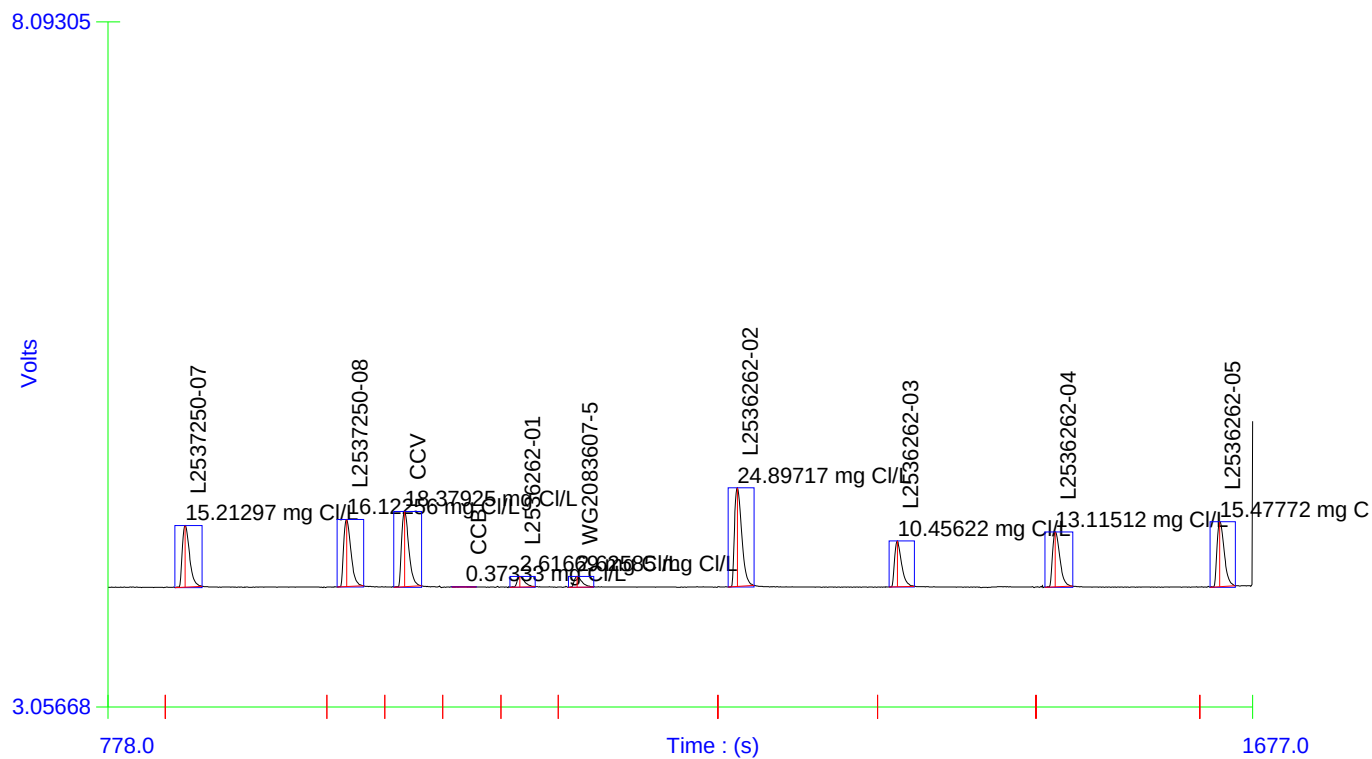
Author:

Date : 6/26/2025

Channel 1 (Chloride) - Set: 1 / 14



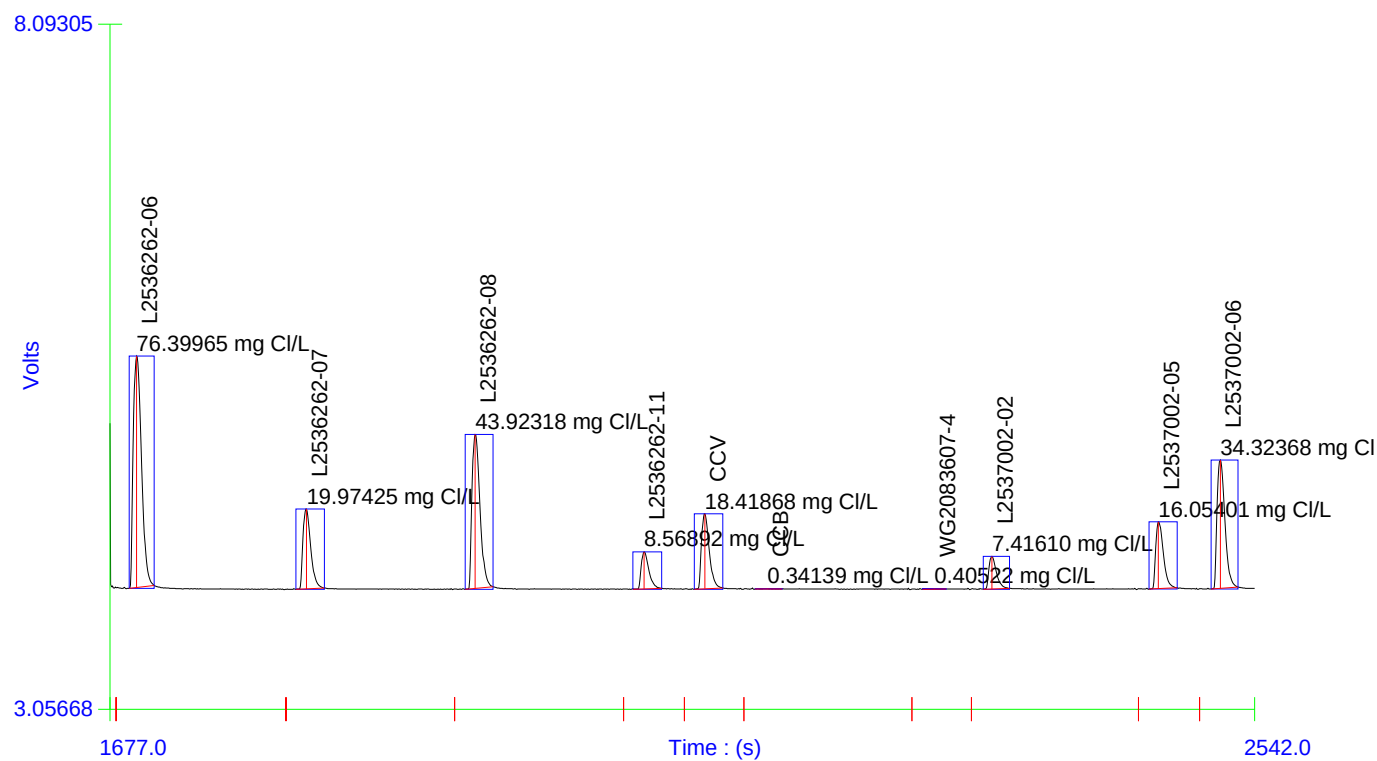
Channel 1 (Chloride) - Set: 2 / 14



Author:

Date : 6/26/2025

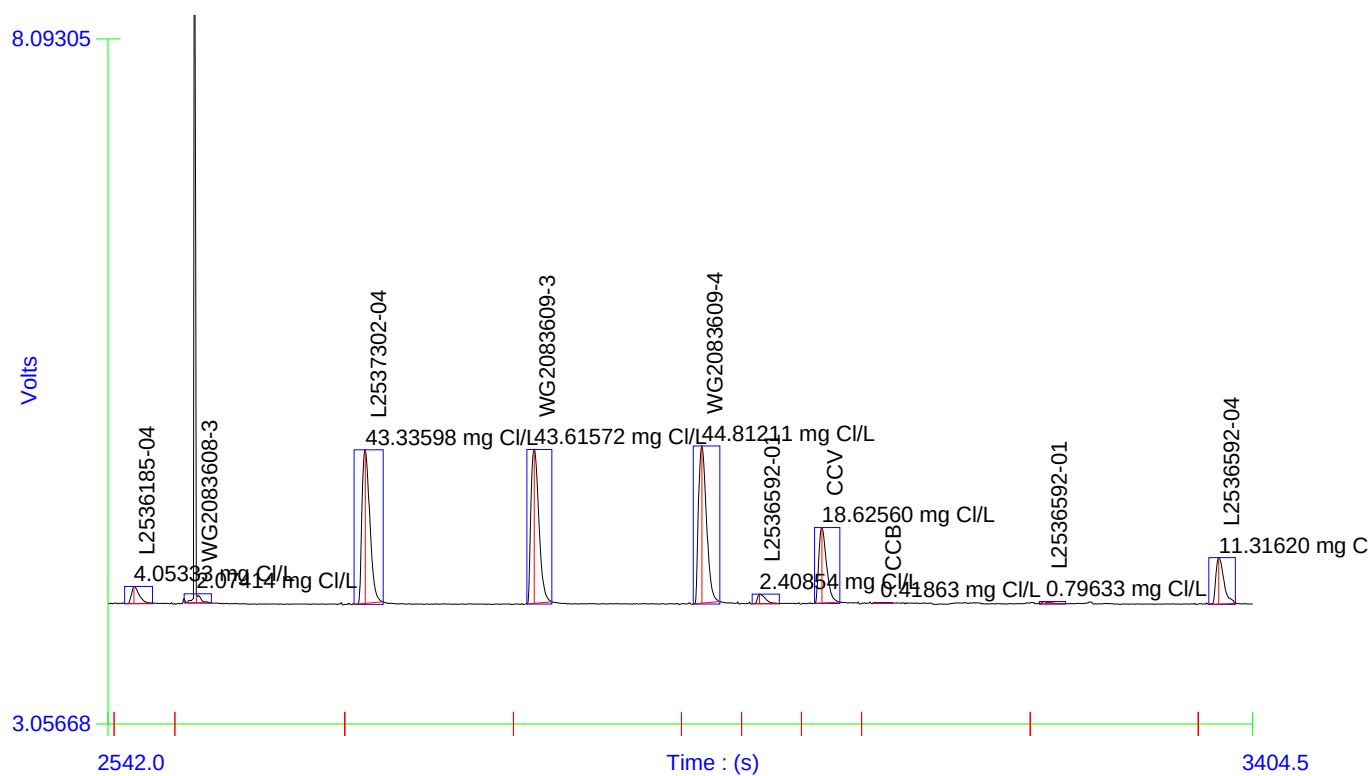
Channel 1 (Chloride) - Set: 3 / 14



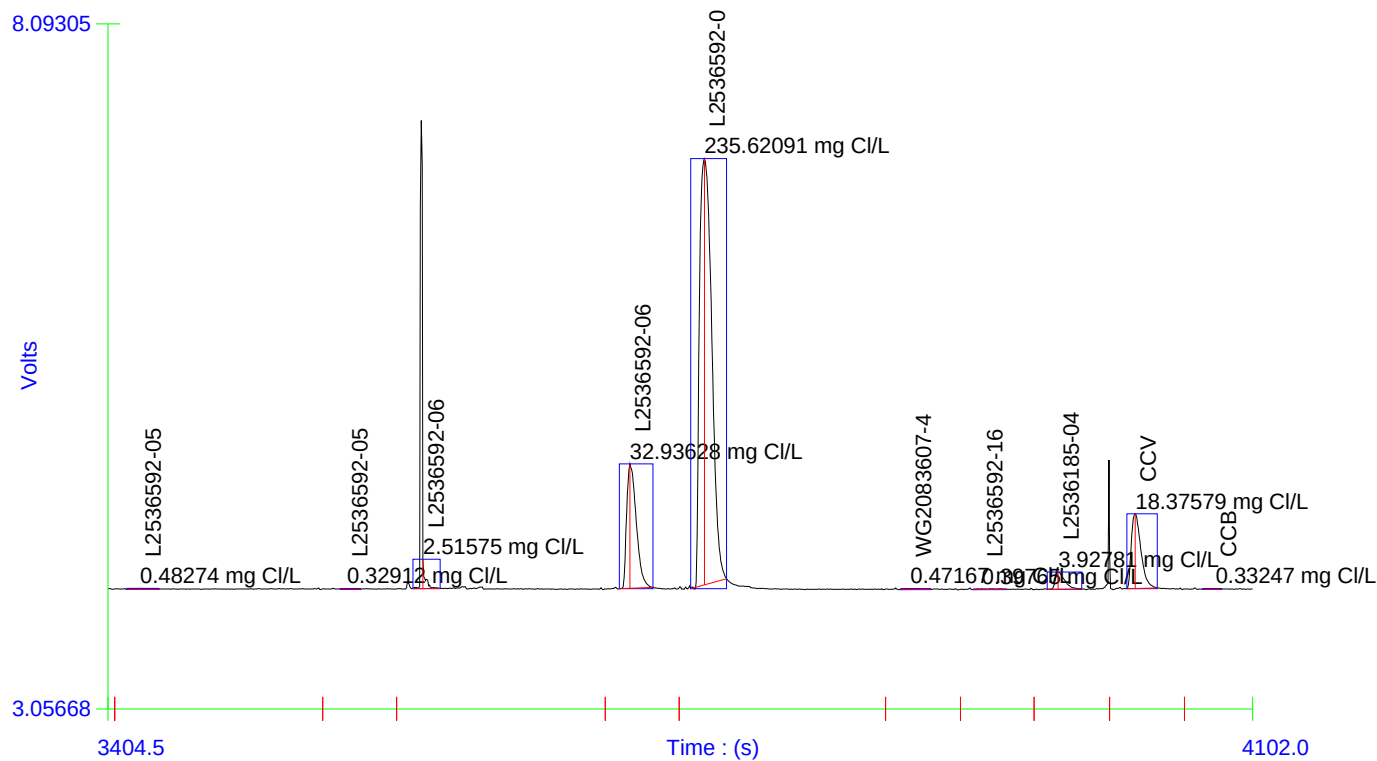
Author:

Date : 6/26/2025

Channel 1 (Chloride) - Set: 4 / 14



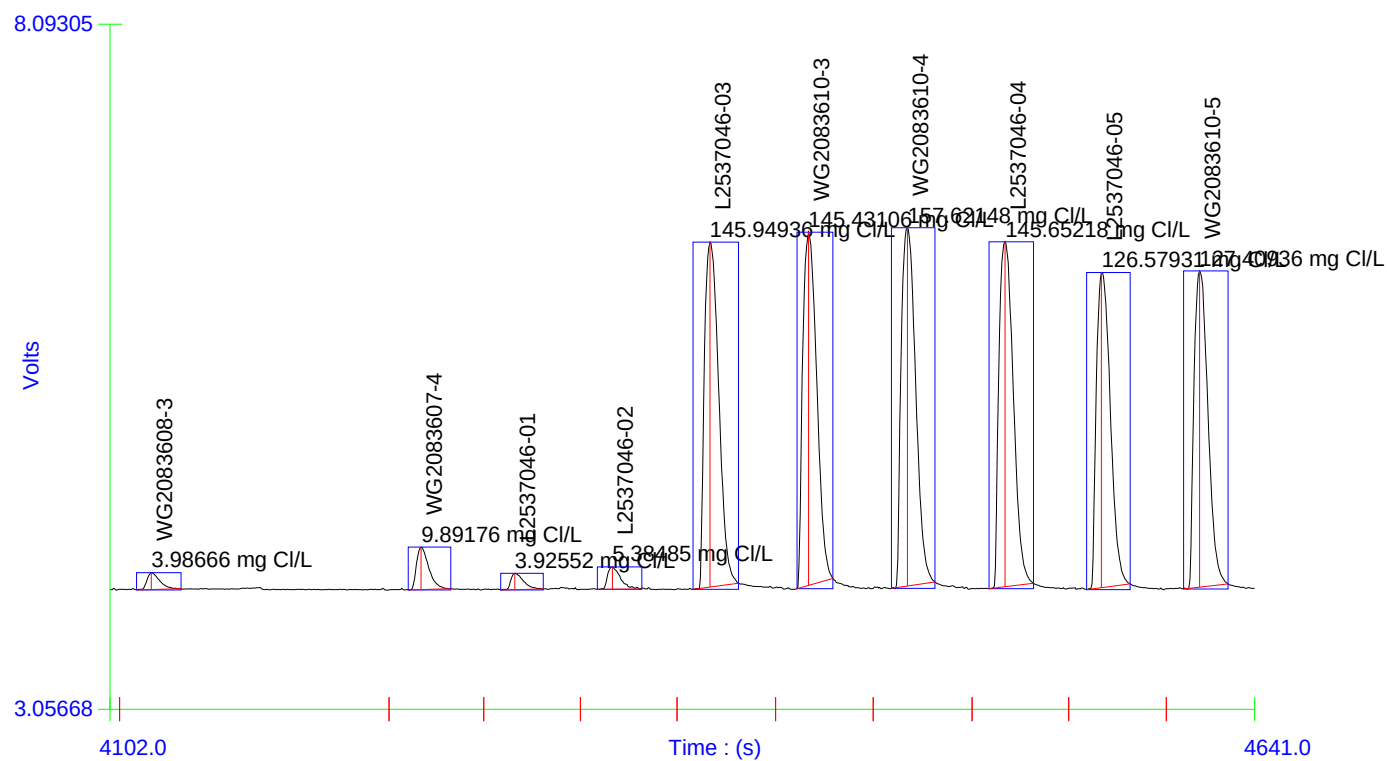
Channel 1 (Chloride) - Set: 5 / 14



Author:

Date : 6/26/2025

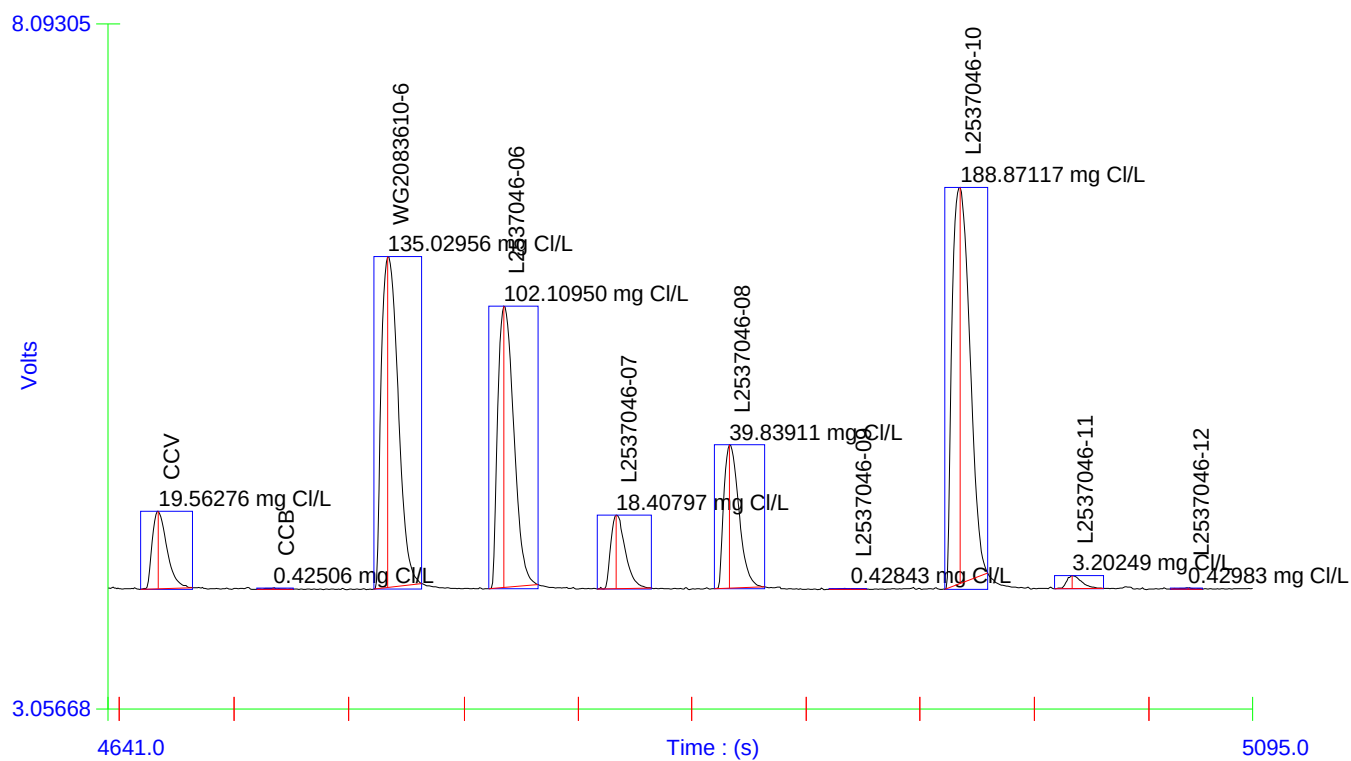
Channel 1 (Chloride) - Set: 6 / 14



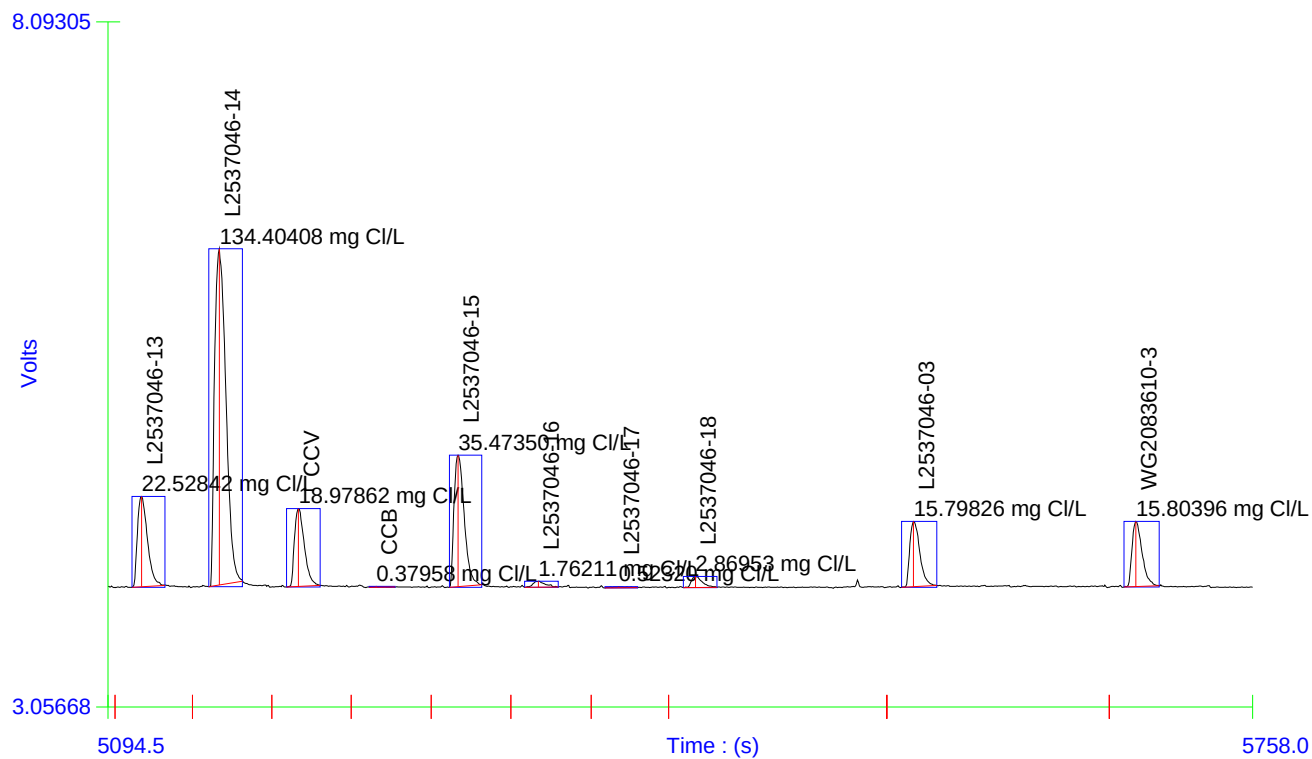
Author:

Date : 6/26/2025

Channel 1 (Chloride) - Set: 7 / 14



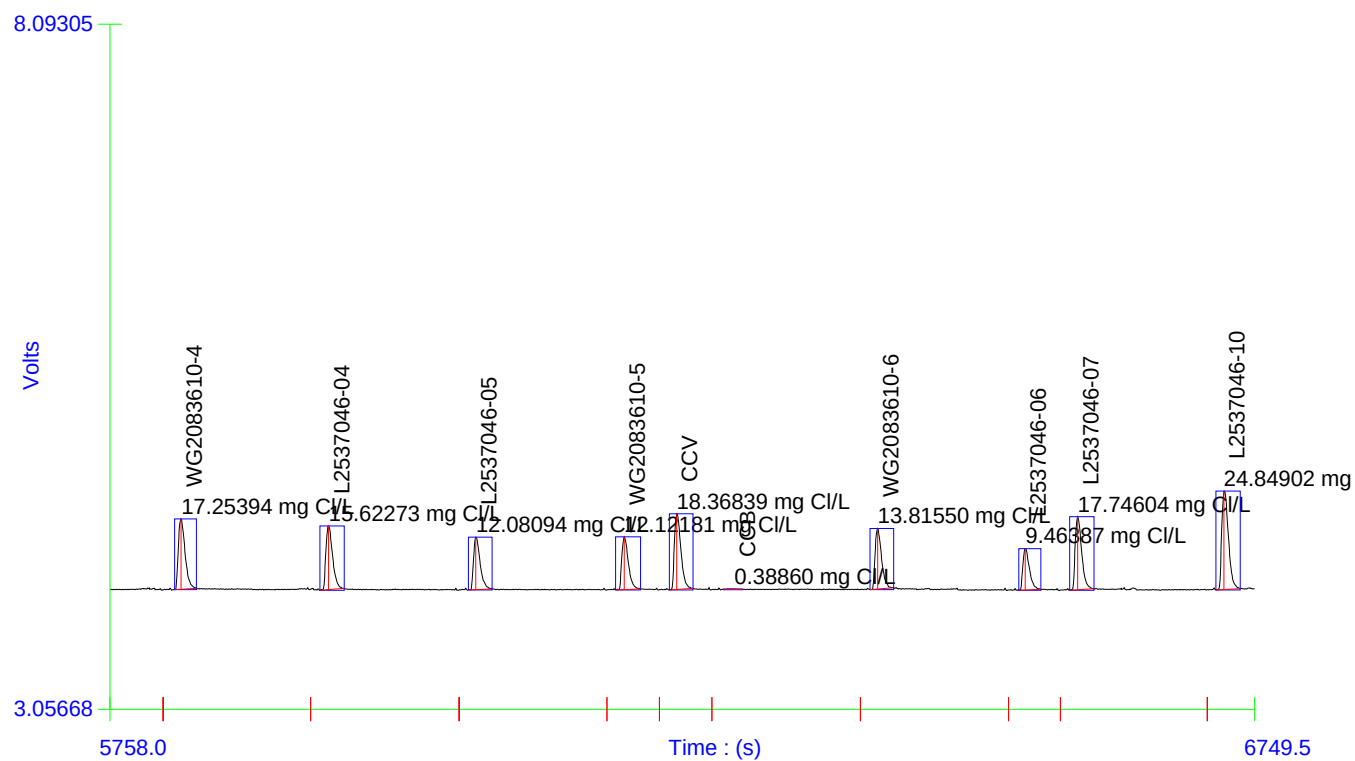
Channel 1 (Chloride) - Set: 8 / 14



Author:

Date : 6/26/2025

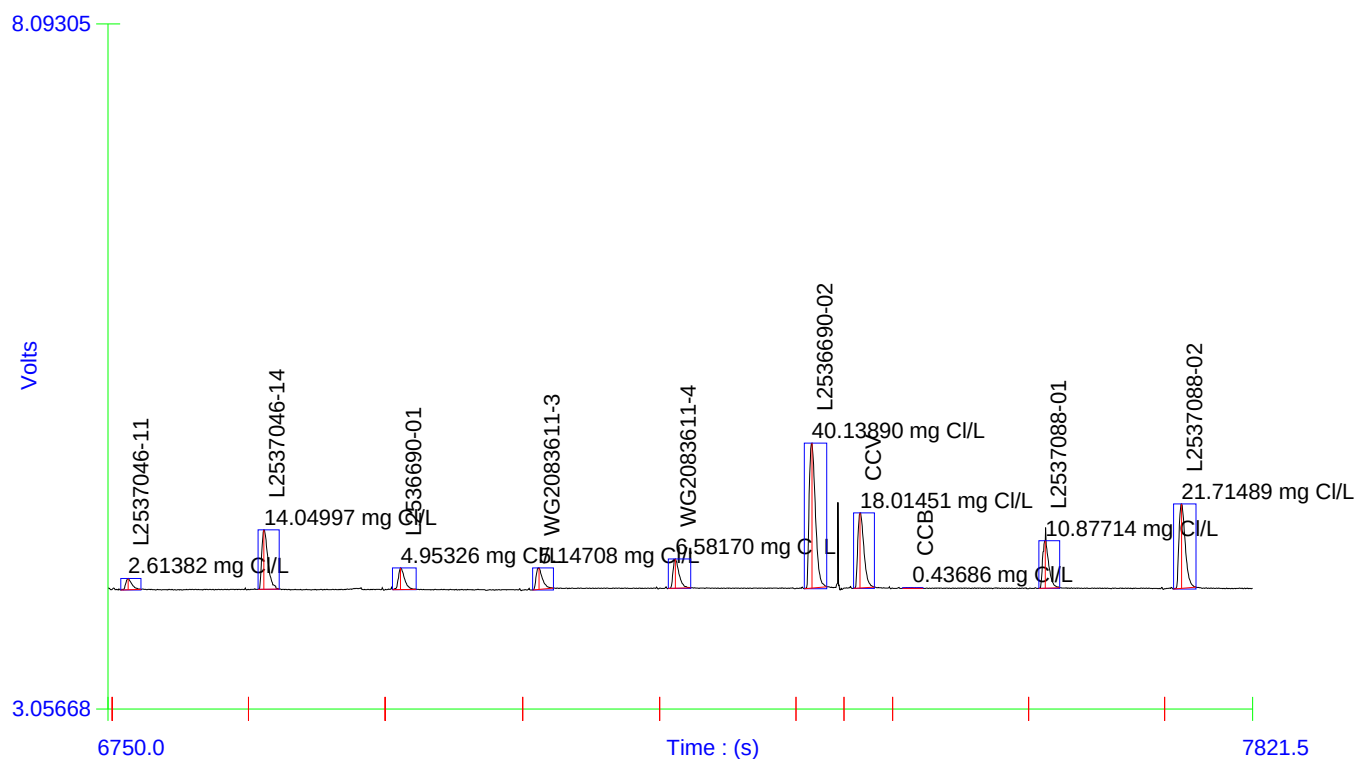
Channel 1 (Chloride) - Set: 9 / 14



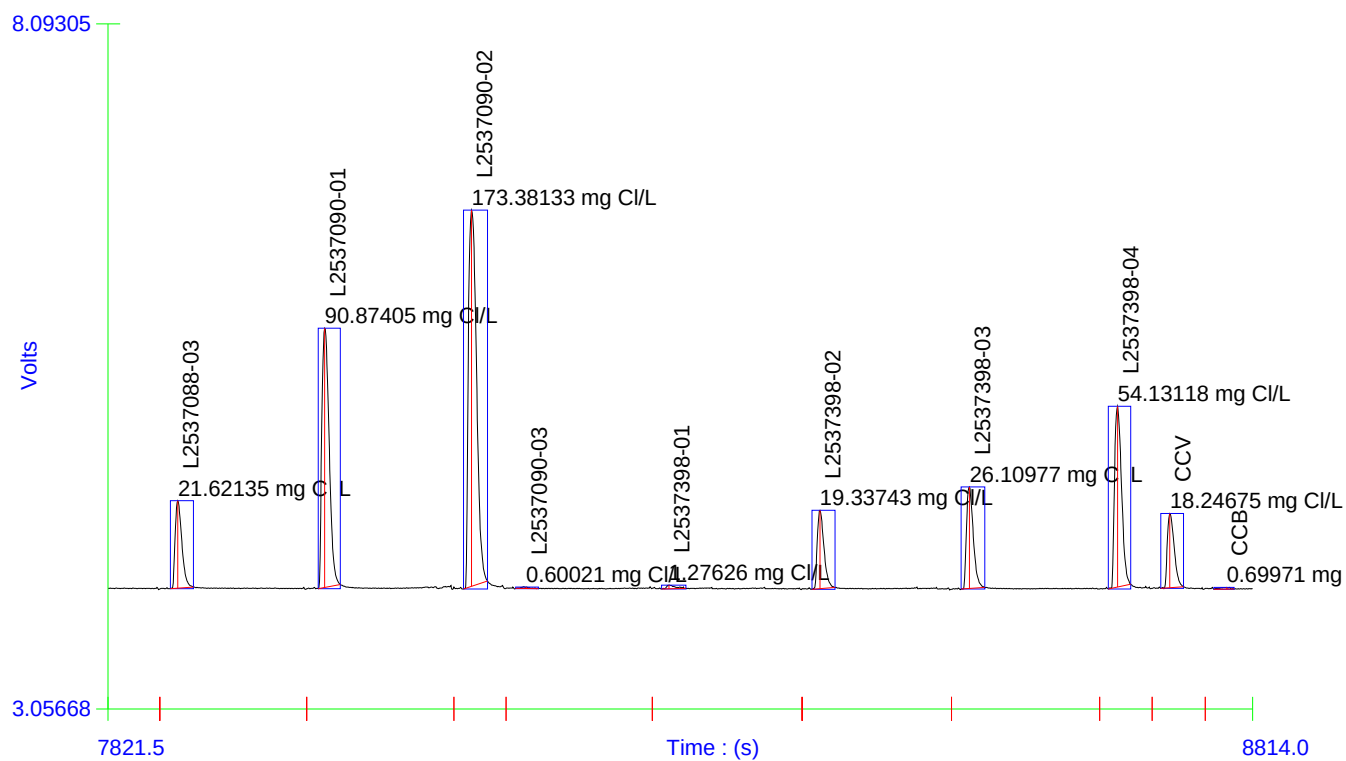
Author:

Date : 6/26/2025

Channel 1 (Chloride) - Set: 10 / 14



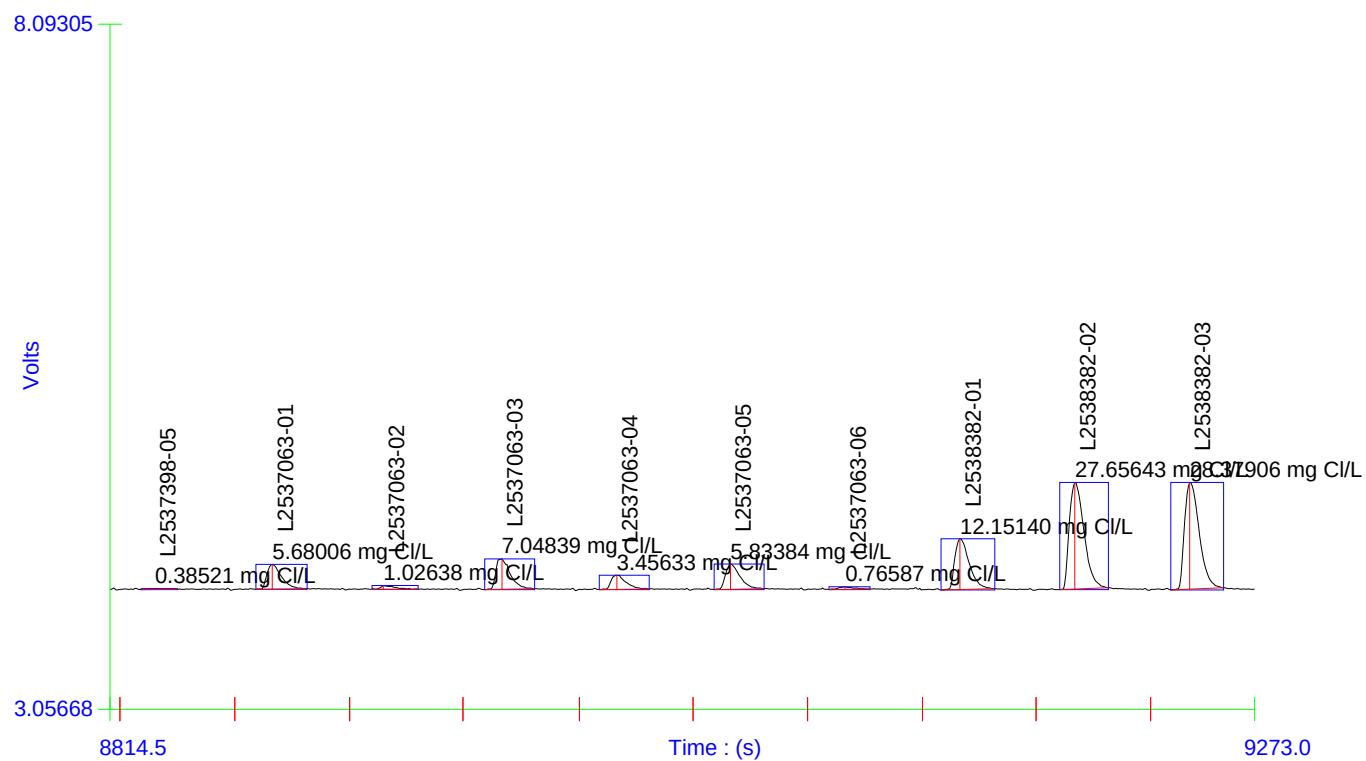
Channel 1 (Chloride) - Set: 11 / 14



Author:

Date : 6/26/2025

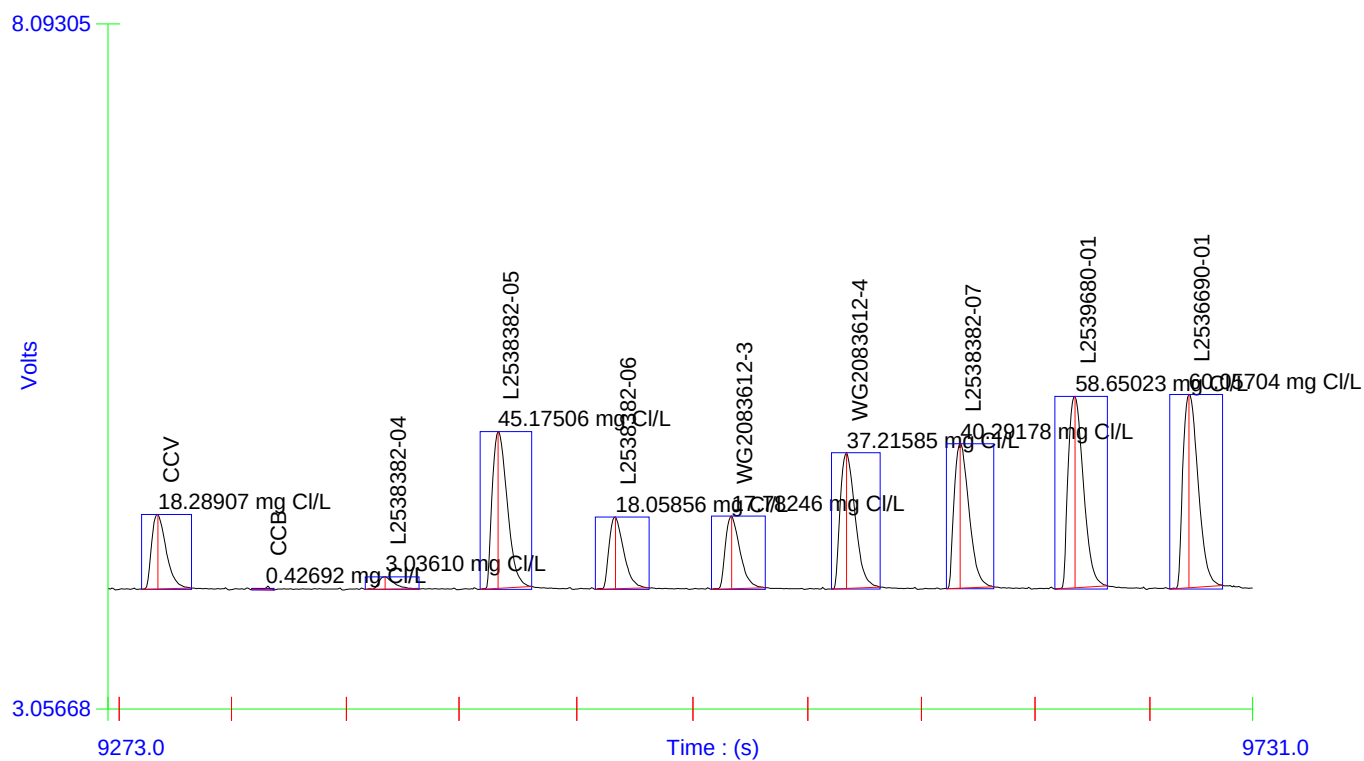
Channel 1 (Chloride) - Set: 12 / 14



Author:

Date : 6/26/2025

Channel 1 (Chloride) - Set: 13 / 14



Channel 1 (Chloride) - Set: 14 / 14

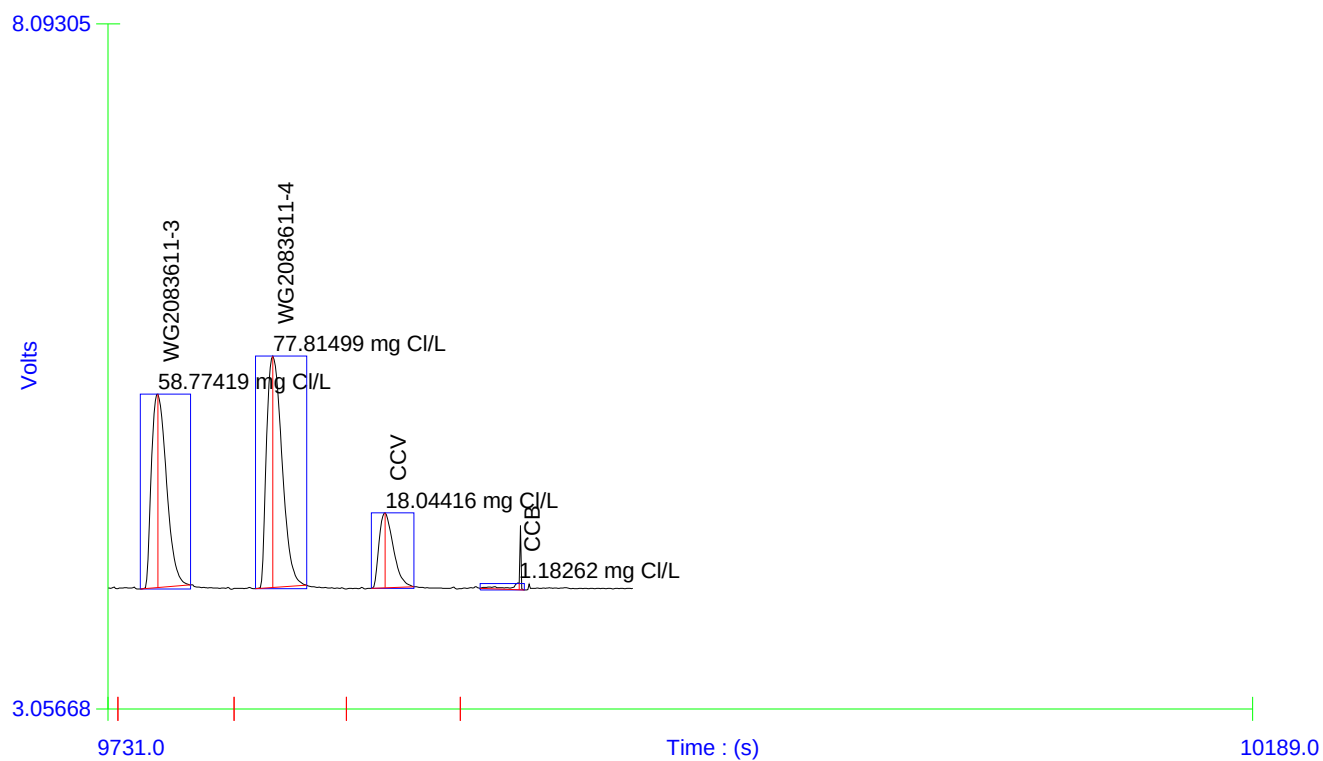
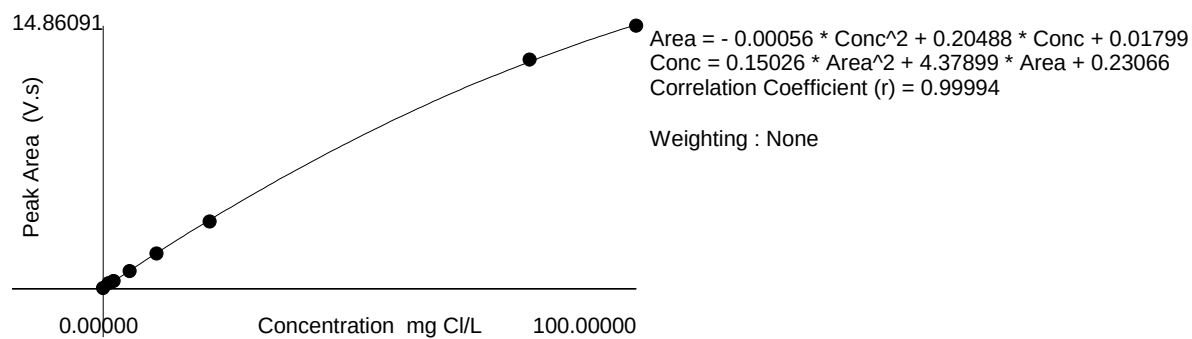


Table : 1 (Chloride-CH3)

	Known Conc. (mg Cl/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg Cl/L)	Detection Date	Detection Time
1	100.00000	1	14.86091	2.00906	0.0	0.4	98.49175	6/26/2025	5:02:40 AM
2	80.00000	1	12.94323	1.77748	0.0	-0.8	82.08224	6/26/2025	5:03:25 AM
3	20.00000	1	3.80060	0.55141	0.0	2.4	19.04396	6/26/2025	5:04:11 AM
4	10.00000	1	1.99534	0.29985	0.0	0.8	9.56651	6/26/2025	5:04:57 AM
5	5.00000	1	0.99017	0.13953	0.0	3.7	4.71394	6/26/2025	5:05:44 AM
6	2.00000	1	0.42828	0.05548	0.0	-0.6	2.13365	6/26/2025	5:06:30 AM
7	1.00000	1	0.30264	0.07072	0.0	-36.1	1.56969	6/26/2025	5:07:18 AM
8	0.00000	1	0.03822	0.00381			0.39827	6/26/2025	5:08:02 AM

Figure : 1 (Chloride-CH3)



Author:

Date : 6/26/2025

Original Run Filename: OM_6-26-2025_09-25-59AM.OMN Created: 6/26/2025 9:25:59 AM

Original Run Author's Signature: [a1wetcheminstrument]

Current Run Filename: OM_6-26-2025_09-25-59AM.OMN Last Modified: 6/26/2025 9:54:14 AM

Current Run Author's Signature: [a1wetcheminstrument]

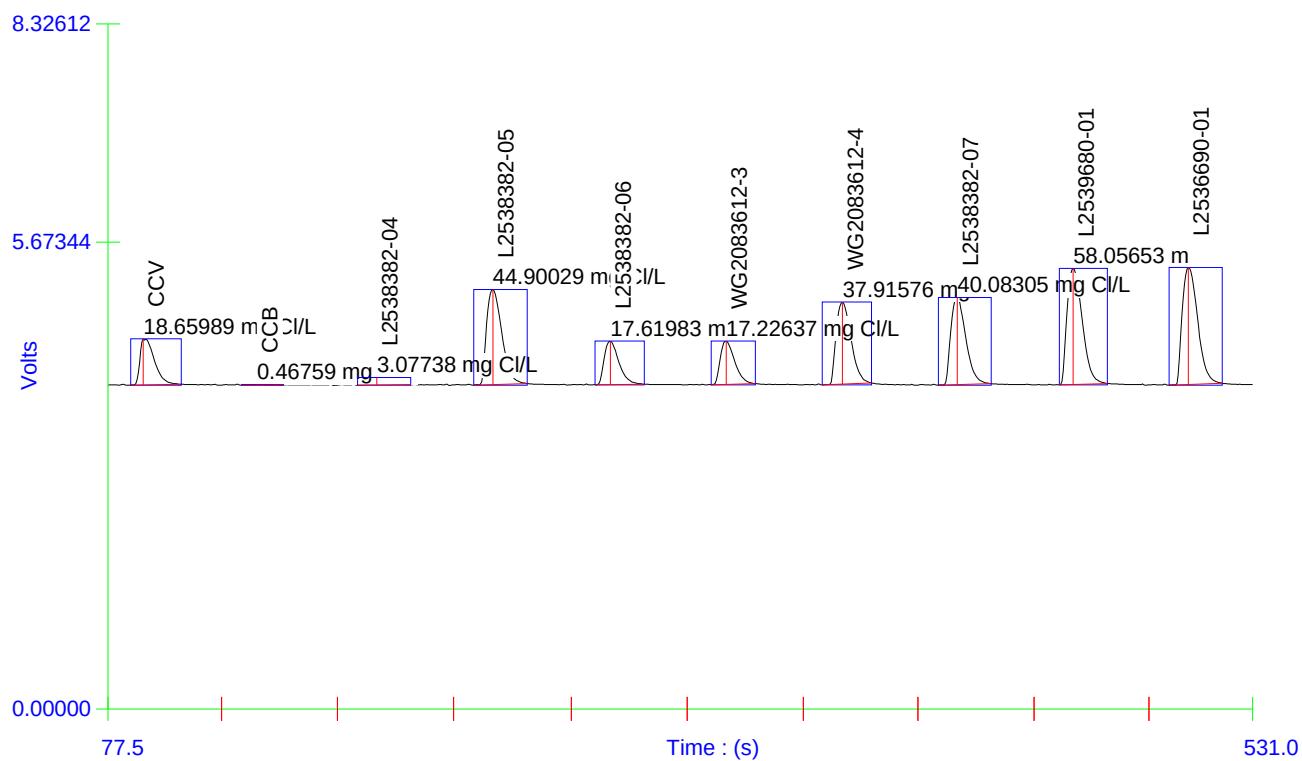
Description: Default New Run

Sample	Rep.	Cup No.	Channel 1	ADF	MDF	Weight
			Chloride-CH3 (mg Cl/L)			
CCV	1	S3	18.65989			
	Known Conc:		20.00000			
CCB	1	S9	0.46759			
	Known Conc:		0.00000			
	Calibration:		Table/Fig. : 1			
L2538382-04	1	134	3.07738			
L2538382-05	1	135	44.90029			
L2538382-06	1	136	17.61983			
WG2083612-3	1	137	17.22637			
WG2083612-4	1	138	37.91576			
L2538382-07	1	139	40.08305			
L2539680-01	1	140	58.05653			
L2536690-01	1	110	60.01165			
WG2083611-3	1	111	59.53477			
WG2083611-4	1	112	78.61593			
CCV	1	S3	18.77913			
	Known Conc:		20.00000			
CCB	1	S9	0.62967			
	Known Conc:		0.00000			
L2537090-02	1	118	1919.27515	100.00		
L2537090-03	1	119	0.43109			
WG2083770/71-1; 5.1331	1	141	2.27953			0.10266 g
WG2083770/71-2; 5.0927	1	142	382.98633			0.10185 g
L2536579-01/29328-11; 5.3155	1	143	65.17118			0.10631 g
WG2083770/71-3; 5.3477	1	144	62.92496			0.10695 g
WG2083770/71-4; 5.0119	1	145	520.96686			0.10024 g
L2536815-01; 5.0783	1	146	227.87659			0.10157 g
L2537902-01; 5.3281	1	147	20.75430			0.10656 g
L2537902-02; 5.1121	1	148	11.58051			0.10224 g
CCV	1	S3	18.14584			
	Known Conc:		20.00000			
CCB	1	S9	0.48069			
	Known Conc:		0.00000			
L2537902-03; 5.1212	1	149	190.14627			0.10242 g
L2539085-02; 5.3341	1	150	15.88351			0.10668 g
L2539085-04; 5.3294	1	151	31.17288			0.10658 g
L2539085-06; 5.6331	1	152	17.13502			0.11266 g
CCV	1	S3	18.85123			
	Known Conc:		20.00000			
CCB	1	S9	0.38090			
	Known Conc:		0.00000			

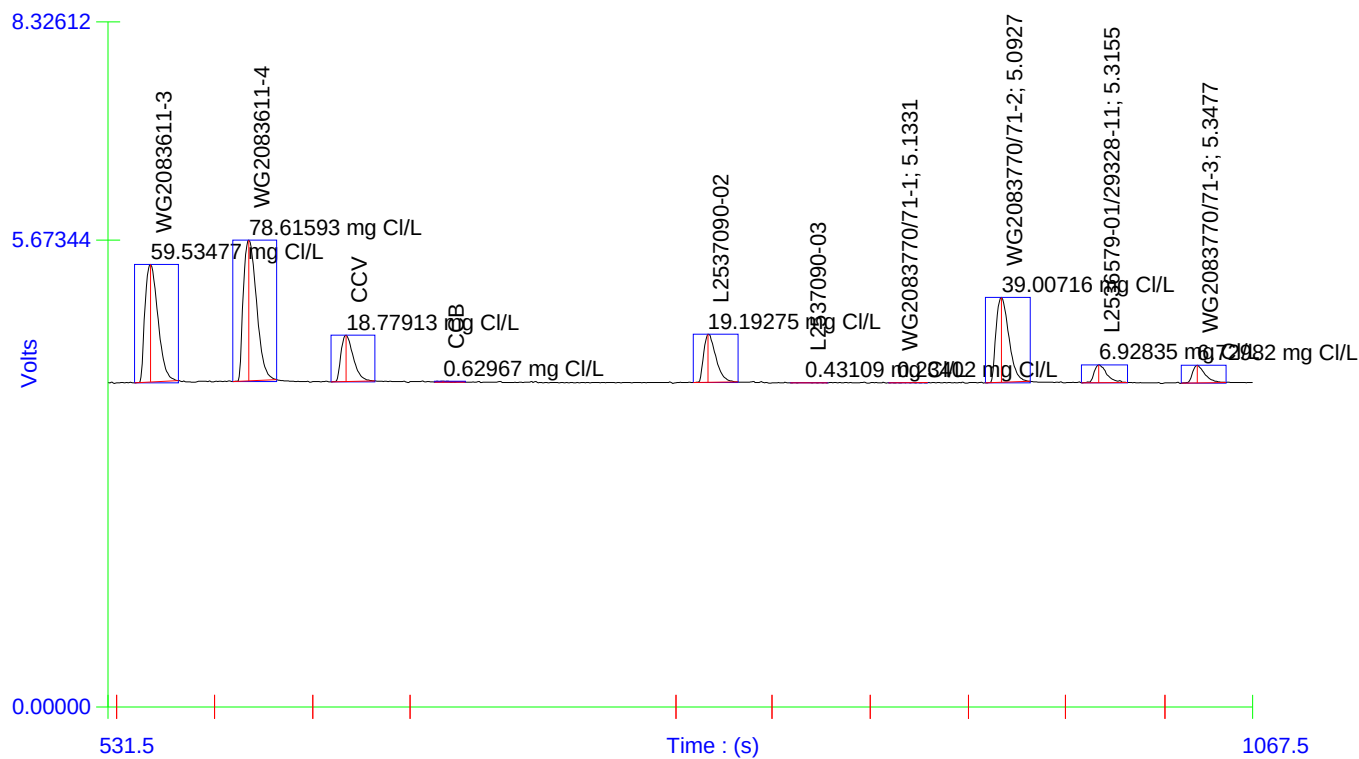
Author:

Date : 6/26/2025

Channel 1 (Chloride) - Set: 1 / 4



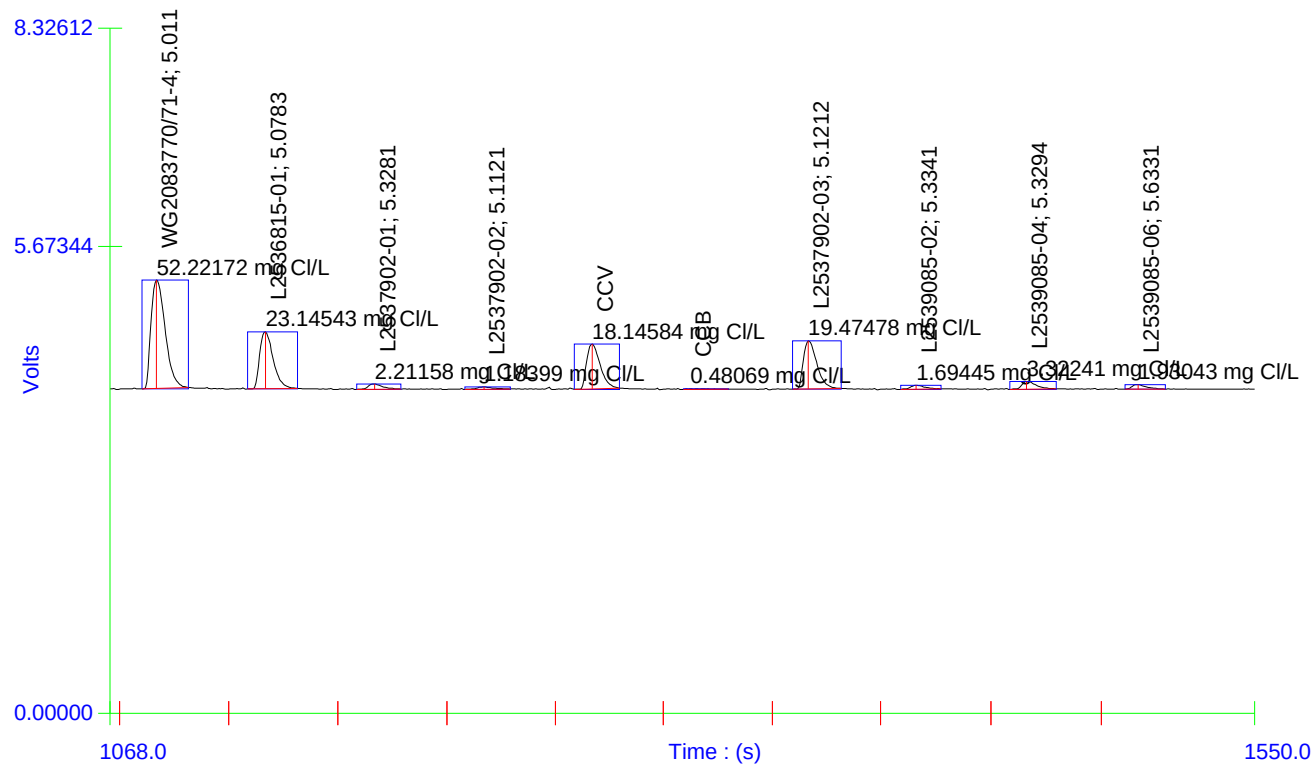
Channel 1 (Chloride) - Set: 2 / 4



Author:

Date : 6/26/2025

Channel 1 (Chloride) - Set: 3 / 4



Author:

Date : 6/26/2025

Channel 1 (Chloride) - Set: 4 / 4

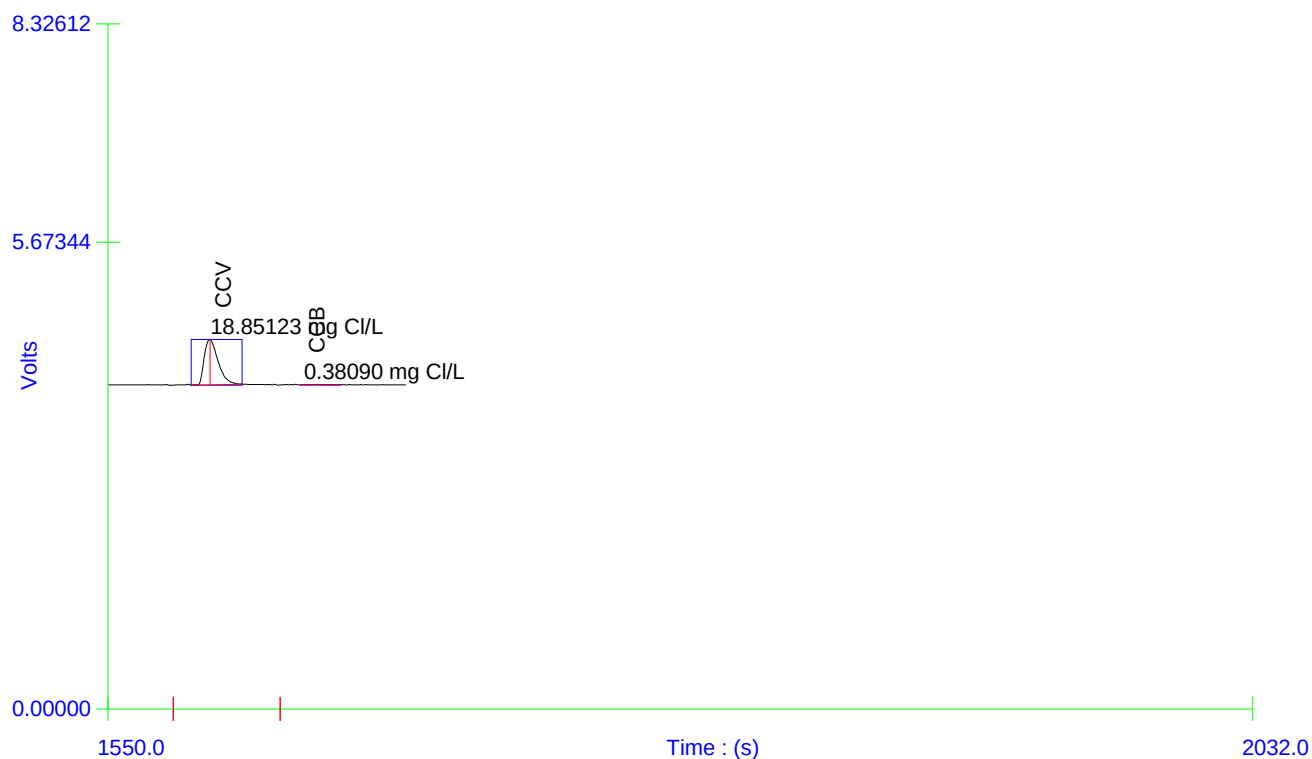
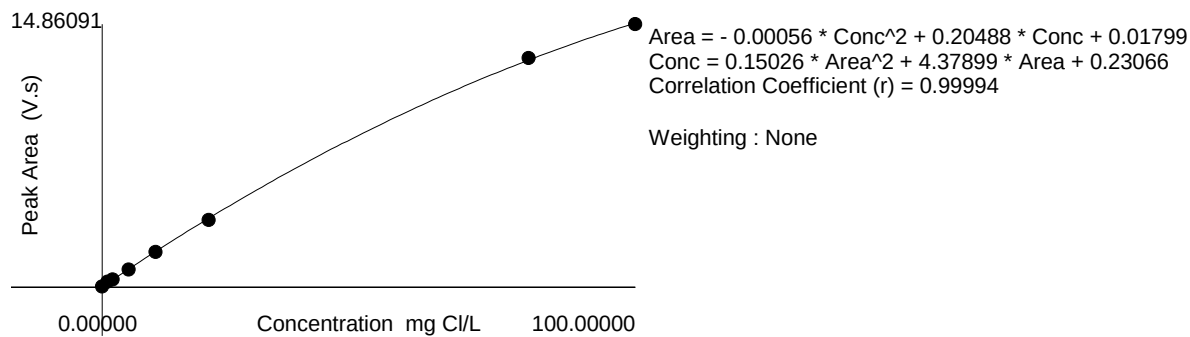


Table : 1 (Chloride-CH3)

	Known Conc. (mg Cl/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg Cl/L)	Detection Date	Detection Time
1	100.00000	1	14.86091	2.00906	0.0	0.4	98.49175	6/26/2025	5:02:40 AM
2	80.00000	1	12.94323	1.77748	0.0	-0.8	82.08224	6/26/2025	5:03:25 AM
3	20.00000	1	3.80060	0.55141	0.0	2.4	19.04396	6/26/2025	5:04:11 AM
4	10.00000	1	1.99534	0.29985	0.0	0.8	9.56651	6/26/2025	5:04:57 AM
5	5.00000	1	0.99017	0.13953	0.0	3.7	4.71394	6/26/2025	5:05:44 AM
6	2.00000	1	0.42828	0.05548	0.0	-0.6	2.13365	6/26/2025	5:06:30 AM
7	1.00000	1	0.30264	0.07072	0.0	-36.1	1.56969	6/26/2025	5:07:18 AM
8	0.00000	1	0.03822	0.00381			0.39827	6/26/2025	5:08:02 AM

Figure : 1 (Chloride-CH3)



Quality Control

Form 5a Matrix Spike

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : MW-12D
 Lab Sample ID : L2538382-06
 Matrix Spike : WG2083612-4
 Matrix Spike Dup :

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Matrix : WATER

MS Analysis Date : 06/26/25 09:32
 MSD Analysis Date :

Parameter	Sample Conc. (mg/l)	Matrix Spike Sample		%R	Matrix Spike Duplicate		%R	RPD	Recovery Limits	RPD Limit
		Spike Added (mg/l)	Spike Conc. (mg/l)		Spike Added (mg/l)	Spike Conc. (mg/l)				
Chloride	18.	20	38.	100					58-140	7



Form 6 Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Client Sample ID	: MW-12D	Matrix	: WATER
Lab Sample ID	: L2538382-06	Analysis Date	: 06/26/25 09:30
Dup Sample ID	: WG2083612-3	DUP Analysis Date	: 06/26/25 09:31

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Chloride	18.	17.	6	7

Form 7
Laboratory Control Sample

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Client Sample ID : NA
Lab Sample ID : WG2083612-2
Dup Sample ID :

Lab Number : L2538382
Project Number : 2232.0006Y005
Matrix : WATER
LCS Analysis Date : 06/26/25 05:29
LCSD Analysis Date :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R			
Chloride	30.0	29.0	97.					90-110	7

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

[illegible]

Please Note that the RL Information provided in this table is calculated using a 100% Solids factor. (Soll/Solids only)
Please Note that the Information provided in this table is subject to change at anytime at the discretion of the laboratory.

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

[illegible]

Please Note that the RL Information provided in this table is calculated using a 100% Solids factor. (Soll/Solids only)
Please Note that the Information provided in this table is subject to change at anytime at the discretion of the laboratory.

Calculations of Chloride

Aqueous samples:

Compute sample Chloride concentration by comparing sample peak areas with standard curve, as determined by the Lachat instrument software.

Calculate results by using reading on Channel 2 (Chloride)

To compute the final results for aqueous samples, multiply the direct reading by the dilution factor. (also done using software)

$$\text{Cl mg/L} = \text{mg/L direct reading} \times \text{dilution factor}$$

Sequence Logs

Date: 250606

Chloride

- 1 ICV 5
- 2 ICV 30
- 3 ICV 80
- 4 ICB
- 5 100 PPM
- 6 WG2083605-1
- 7 WG2083605-2
- 8 WG2083607-1
- 9 WG2083607-2
- 10 WG2083608-1
- 11 WG2083608-2
- 12 WG2083609-1
- 13 WG2083609-2
- 14 WG2083610-1
- 15 WG2083610-2
- 16 WG2083611-1
- 17 WG2083611-2
- 18 WG2083612-1
- 19 WG2083612-2
- 20 L2536731-01
- 21 WG2083605-3
- 22 WG2083605-4
- 23 L2536731-02
- 24 L2536731-03
- 25 L2536731-04
- 26 L2536731-05
- 27 L2536731-06
- 28 L2536731-07
- 29 L2536731-08
- 30 L2537250-01
- 31 WG2083605-5
- 32 WG2083605-6
- 33 L2537250-02
- 34 L2537250-03
- 35 L2537250-04
- 36 L2537250-05
- 37 L2537250-06
- 38 L2537250-07
- 39 L2537250-08
- 40 L2536262-01
- 41 WG2083607-5
- 42 WG2083607-6
- 43 L2536262-02
- 44 L2536262-03
- 45 L2536262-04

46 L2536262-05
47 L2536262-06
48 L2536262-07
49 L2536262-08
50 L2536262-09
51 L2536262-10
52 L2536262-11
53 L2536262-12
54 L2537002-01
55 WG2083607-3
56 WG2083607-4
57 L2537002-02
58 L2537002-03
59 L2537002-04
60 L2537002-05
61 L2537002-06
62 L2537002-07
63 L2536185-04
64 WG2083608-3
65 WG2083608-4
66 L2536614-02
67 L2537302-04
68 WG2083609-3
69 WG2083609-4
70 L2536268-04
71 L2536592-01
72 L2536592-02
73 L2536592-04
74 L2536592-05
75 L2536592-06
76 L2536592-07
77 L2536592-08
78 L2536592-09
79 L2536592-10
80 L2536592-11
81 L2536592-12
82 L2536592-13
83 L2536592-14
84 L2536592-15
85 L2536592-16
86 L2536592-17
87 L2536592-18
88 L2537046-01
89 L2537046-02
90 L2537046-03
91 WG2083610-3
92 WG2083610-4

93 L2537046-04
94 L2537046-05
95 WG2083610-5
96 WG2083610-6
97 L2537046-06
98 L2537046-07
99 L2537046-08
100 L2537046-09
101 L2537046-10
102 L2537046-11
103 L2537046-12
104 L2537046-13
105 L2537046-14
106 L2537046-15
107 L2537046-16
108 L2537046-17
109 L2537046-18
110 L2536690-01
111 WG2083611-3
112 WG2083611-4
113 L2536690-02
114 L2537088-01
115 L2537088-02
116 L2537088-03
117 L2537090-01
118 L2537090-02
119 L2537090-03
120 L2537398-01
121 L2537398-02
122 L2537398-03
123 L2537398-04
124 L2537398-05
125 L2537063-01
126 L2537063-02
127 L2537063-03
128 L2537063-04
129 L2537063-05
130 L2537063-06
131 L2538382-01
132 L2538382-02
133 L2538382-03
134 L2538382-04
135 L2538382-05
136 L2538382-06
137 WG2083612-3
138 WG2083612-4
139 L2538382-07

140 L2539680-01
141 WG2083770/71-1; 5.1331
142 WG2083770/71-2; 5.0927
143 L2536579-01/29328-11; 5.3155
144 WG2083770/71-3; 5.3477
145 WG2083770/71-4; 5.0119
146 L2536815-01; 5.0783
147 L2537902-01; 5.3281
148 L2537902-02; 5.1121
149 L2537902-03; 5.1212
150 L2539085-02; 5.3341
151 L2539085-04; 5.3294
152 L2539085-06; 5.6331

Fluoride Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-01	Date Collected	: 06/18/25 09:00
Client ID	: MW-8S	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/23/25 05:53
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500F-BC	Analyst	: DTH
Lab File ID	: WG2082083.csv	Instrument ID	:
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	: 06/23/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
16984-48-8	Fluoride	0.04	0.20	0.01	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-02	Date Collected	: 06/18/25 09:05
Client ID	: MW-8D	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/23/25 05:53
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500F-BC	Analyst	: DTH
Lab File ID	: WG2082083.csv	Instrument ID	:
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	: 06/23/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
16984-48-8	Fluoride	0.03	0.20	0.01	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-03	Date Collected	: 06/18/25 10:30
Client ID	: MW-5D	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/23/25 05:53
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500F-BC	Analyst	: DTH
Lab File ID	: WG2082083.csv	Instrument ID	:
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	: 06/23/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
16984-48-8	Fluoride	0.04	0.20	0.01	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-04	Date Collected	: 06/18/25 10:45
Client ID	: PZ-5	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/23/25 05:53
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500F-BC	Analyst	: DTH
Lab File ID	: WG2082083.csv	Instrument ID	:
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	: 06/23/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
16984-48-8	Fluoride	0.04	0.20	0.01	J

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-05	Date Collected	: 06/18/25 13:20
Client ID	: MW-12S	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/23/25 05:53
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500F-BC	Analyst	: DTH
Lab File ID	: WG2082083.csv	Instrument ID	:
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	: 06/23/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
16984-48-8	Fluoride	0.03	0.20	0.01	J

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-06	Date Collected	: 06/18/25 13:22
Client ID	: MW-12D	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/24/25 05:38
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500F-BC	Analyst	: DTH
Lab File ID	: WG2082536.csv	Instrument ID	:
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	: 06/24/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
16984-48-8	Fluoride	0.04	0.20	0.01	J

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-07	Date Collected	: 06/18/25 12:00
Client ID	: DUP_06182025	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/23/25 05:53
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500F-BC	Analyst	: DTH
Lab File ID	: WG2082083.csv	Instrument ID	:
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	: 06/23/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
16984-48-8	Fluoride	0.02	0.20	0.01	J

Form 1

WETCHEM

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Lab ID : WG2082083-1
Client ID : WG2082083-1BLANK
Sample Location :
Sample Matrix : WATER
Analytical Method : 121,4500F-BC
Lab File ID : WG2082083.csv
Sample Amount :
Digestion Method :

Lab Number : L2538382
Project Number : 2232.0006Y005
Date Collected : NA
Date Received : NA
Date Analyzed : 06/23/25 05:53
Dilution Factor : 1
Analyst : DTH
Instrument ID :
%Solids : N/A
Date Digested : 06/23/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
16984-48-8	Fluoride	ND	0.20	0.01	U



Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: WG2082083-3	Date Collected	: 06/09/25 13:25
Client ID	: WG2082083-3 DUP	Date Received	: 06/10/25
Sample Location	:	Date Analyzed	: 06/23/25 05:53
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500F-BC	Analyst	: DTH
Lab File ID	: WG2082083.csv	Instrument ID	:
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	: 06/23/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
16984-48-8	Fluoride	0.03	0.20	0.02	J



Form 1

WETCHEM

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Lab ID : WG2082536-1
Client ID : WG2082536-1BLANK
Sample Location :
Sample Matrix : WATER
Analytical Method : 121,4500F-BC
Lab File ID : WG2082536.csv
Sample Amount :
Digestion Method :

Lab Number : L2538382
Project Number : 2232.0006Y005
Date Collected : NA
Date Received : NA
Date Analyzed : 06/24/25 05:38
Dilution Factor : 1
Analyst : DTH
Instrument ID :
%Solids : N/A
Date Digested : 06/24/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
16984-48-8	Fluoride	ND	0.20	0.01	U

Form 1

WETCHEM

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Lab ID : WG2082536-3
Client ID : MW-12DDUP
Sample Location :
Sample Matrix : WATER
Analytical Method : 121,4500F-BC
Lab File ID : WG2082536.csv
Sample Amount :
Digestion Method :

Lab Number : L2538382
Project Number : 2232.0006Y005
Date Collected : 06/18/25 13:22
Date Received : 06/18/25
Date Analyzed : 06/24/25 05:38
Dilution Factor : 1
Analyst : DTH
Instrument ID :
%Solids : N/A
Date Digested : 06/24/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
16984-48-8	Fluoride	0.04	0.20	0.02	J

Sample Raw Data

PACE ANALYTICAL LABS
WET CHEMISTRY DEPARTMENT
FLUORIDE

Last Change 03/4/13
File Flouride.xlt

Sample Number: _____

Client: _____

Product: F-4500
Analysis Analyte: Fluoride,
Analysis Date: 6/24/2025 5:38
Technician: DTH
Work group: WG2082536
RL: 0.20 mg/L
Distillation Date: 6/24/2025 1:47

Analysis: FLUORIDE
Method: SM 4500F-BC
LCS Concentration (mg/l): 2
Spike Concentration (mg/l): 1

Standard ID mg/L	Log Std-d	Reading mV	Result, Curve	Antilog Result	% Recovery	Calibration Curve Slope y-intercept
0.2	-0.699	129.2	-0.701	0.1992	100	-59.6542431 87.4
0.5	-0.301	105.3	-0.300	0.5011	100	
1.0	0.000	87.3	0.002	1.0039	100	Correlation Coefficient
10	1.000	27.8	0.999	9.979	100	0.99999765

	Sample number	Sample Volume (ml)	Distill Volume (ml)	Flask	Reagent	Dilution Factor	Meter Reading	RL Multiplier	FINAL RESULT (mg/l)	Recovery
	ICB	50	50		YES	1.00	0	1.00	0.00	
	ICV	50	50		YES	1.00	0.984	1.00	0.98	98%
SAMP	L2538382-06	50	50		YES	1.00	0.0375	1.00	0.04	
SAMP	L2538805-01	50	50		YES	1.00	0.0361	1.00	0.04	
SAMP	L2538805-02	50	50		YES	1.00	0.0478	1.00	0.05	
SAMP	L2538805-05	50	50		YES	1.00	0.0702	1.00	0.07	
SAMP	L2538805-06	50	50		YES	1.00	0.00729	1.00	0.01	
	CCV	50	50		YES	1.00	0.993	1.00	0.99	
	CCB	50	50		YES	1.00	0	1.00	0.00	
	CCV	50	50		YES	1.00	0.987	1.00	0.99	
	CCB	50	50		YES	1.00	0	1.00	0.00	
						1.00		1.00		
						1.00		1.00		
						1.00		1.00		
						1.00		1.00		
						1.00		1.00		
						1.00		1.00		
						1.00		1.00		
						1.00		1.00		
						1.00		1.00		
						1.00		1.00		
						1.00		1.00		
BLANK	WG2082536-1	50	50		YES	1.00	0	1.00	0.00	
DUP	WG2082536-3	50	50		YES	1.00	0.0356	1.00	0.04	L2538382-06
	sample	sample	Distill			Sample	Meter	Spike conc.	Spike	Recovery
	Sample number	volume	volume (ml)	Flask	Reagent	Result mg/l	Reading	mg/l	Result mg/l	%
MS	WG2082536-4	50	50		YES	.04	0.989	1	0.99	95
LCS	WG2082536-2	50	50		YES		1.72	2	1.72	86

last sample

PACE ANALYTICAL LABS
WET CHEMISTRY DEPARTMENT
FLUORIDE

Last Change 03/4/13
File Flouride.xlt

Sample Number: _____

Client: _____

Product: F-4500
Analysis Analyte: Fluoride,
Analysis Date: 6/23/2025 5:53
Technician: DTH
Work group: WG2082083
RL: 0.20 mg/L
Distillation Date: 6/23/2025 0:41

Analysis: FLUORIDE
Method: SM 4500F-BC
LCS Concentration (mg/l): 2
Spike Concentration (mg/l): 1

Standard ID mg/L	Log Std-d	Reading mV	Result, Curve	Antilog Result	% Recovery	Calibration Slope	Curve y-intercept
0.2	-0.699	128.8	-0.704	0.1978	99	-59.7870317	86.725
0.5	-0.301	104.6	-0.299	0.5024	100		
1.0	0.000	86.4	0.005	1.0126	101	Correlation Coefficient	
10	1.000	27.1	0.997	9.938	99	0.99997989	

	Sample number	Sample Volume (ml)	Distill Volume (ml)	Flask	Reagent	Dilution Factor	Meter Reading	RL Multiplier	FINAL RESULT (mg/l)	Recovery
	ICB	50	50		YES	1.00	0	1.00	0.00	
	ICV	50	50		YES	1.00	0.968	1.00	0.97	97%
SAMP	L2536247-12	50	50		YES	1.00	0.0299	1.00	0.03	
SAMP	L2536247-16	50	50		YES	1.00	0.118	1.00	0.12	
SAMP	L2536247-17	50	50		YES	1.00	0.107	1.00	0.11	
SAMP	L2536930-01	50	50		YES	1.00	0.151	1.00	0.15	
SAMP	L2536930-02	50	50		YES	1.00	0.0668	1.00	0.07	
SAMP	L2536930-03	50	50		YES	1.00	0.0642	1.00	0.06	
SAMP	L2536930-04	50	50		YES	1.00	0.0552	1.00	0.06	
SAMP	L2537748-01	5	50		YES	10.00	1.38	10.00	13.80	
SAMP	L2538382-01	50	50		YES	1.00	0.0389	1.00	0.04	
SAMP	L2538382-02	50	50		YES	1.00	0.0302	1.00	0.03	
SAMP	L2538382-03	50	50		YES	1.00	0.0355	1.00	0.04	
SAMP	L2538382-04	50	50		YES	1.00	0.0373	1.00	0.04	
SAMP	L2538382-05	50	50		YES	1.00	0.026	1.00	0.03	
SAMP	L2538382-07	50	50		YES	1.00	0.0239	1.00	0.02	
SAMP	L2538805-03	50	50		YES	1.00	0.0217	1.00	0.02	
SAMP	L2538805-04	50	50		YES	1.00	0.0264	1.00	0.03	
	CCV	50	50		YES	1.00	0.969	1.00	0.97	
	CCB	50	50		YES	1.00	0	1.00	0.00	
	CCV	50	50		YES	1.00	0.969	1.00	0.97	
	CCB	50	50		YES	1.00	0	1.00	0.00	
BLANK	WG2082083-1	50	50		YES	1.00	0	1.00	0.00	
DUP	WG2082083-3	50	50		YES	1.00	0.0284	1.00	0.03	L2536247-12
	Sample number	sample volume	Distill volume (ml)	Flask	Reagent	Sample Result mg/l	Meter Reading	Spike conc. mg/l	Spike Result mg/l	Recovery %
MS	WG2082083-4	50	50		YES	.03	0.991	1	0.99	96
LCS	WG2082083-2	50	50		YES		1.7	2	1.70	85

last sample

Quality Control

Form 5a Matrix Spike

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : NA
 Lab Sample ID : L2536247-12
 Matrix Spike : WG2082083-4
 Matrix Spike Dup :

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Matrix : WATER
 MS Analysis Date : 06/23/25 05:53
 MSD Analysis Date :

Parameter	Sample Conc. (mg/l)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R			
Fluoride	0.03J	1	0.99	99					69-124	13



Form 5a Matrix Spike

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : MW-12D
 Lab Sample ID : L2538382-06
 Matrix Spike : WG2082536-4
 Matrix Spike Dup :

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Matrix : WATER
 MS Analysis Date : 06/24/25 05:38
 MSD Analysis Date :

Parameter	Sample Conc. (mg/l)	Matrix Spike Sample			Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit
		Spike Added (mg/l)	Spike Conc. (mg/l)	%R	Spike Added (mg/l)	Spike Conc. (mg/l)	%R			
Fluoride	0.04J	1	0.99	99					69-124	13

Form 6 Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Client Sample ID	: NA	Matrix	: WATER
Lab Sample ID	: NA	Analysis Date	: 06/23/25 05:53
Dup Sample ID	: WG2082083-3	DUP Analysis Date	: 06/23/25 05:53

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Fluoride	0.03J	0.03J	NC	13



Form 6 Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Client Sample ID	: MW-12D	Matrix	: WATER
Lab Sample ID	: L2538382-06	Analysis Date	: 06/24/25 05:38
Dup Sample ID	: WG2082536-3	DUP Analysis Date	: 06/24/25 05:38

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Fluoride	0.04J	0.04J	NC	13



Form 7

Laboratory Control Sample

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : NA
 Lab Sample ID : WG2082083-2
 Dup Sample ID :

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Matrix : WATER
 LCS Analysis Date : 06/23/25 05:53
 LCSD Analysis Date :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R			
Fluoride	2.00	1.70	85.					78-120	13

Form 7 Laboratory Control Sample

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : NA
 Lab Sample ID : WG2082536-2
 Dup Sample ID :

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Matrix : WATER
 LCS Analysis Date : 06/24/25 05:38
 LCSD Analysis Date :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R			
Fluoride	2.00	1.70	86.					78-120	13



Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

[illegible]

Please Note that the Information provided in this table is subject to change at anytime at the discretion of the laboratory.

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

[illegible]

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soll/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of the laboratory.

Calculations of Fluoride

When the volume of the distillate is the same as the volume of the sample used, the direct determination of Fluoride concentration is the instrument's result.

However, when analyzing soil samples or high level samples requiring a dilution, the following equations apply:

For liquids:

$$\text{Fluoride, mg/L} = (\text{mg F-/L}) \times (\text{Volume of Distillate, mL}) / \text{Volume of Sample, mL}$$

For solids:

$$\text{Fluoride, mg/Kg} = (\text{mg F-/L}) \times (\text{Volume of Distillate, mL}) / \text{Weight of Sample, gm}$$

To calculate final result for soil samples based on dry weight, multiply final result on 100 and divide on %TS (in %)

Sample Preparation

TITLE

PROJECT

Continued from Page

WG2082536

WG2082538

Analyst: DTH

Date & Time: 6/24/25 5:38

ICV:F 06152025 700 ppm

LCS:F 06152025 700 ppm

Spike:F 06152025 - 100 ppm

Curve:WC- 3575

TISAB III: R- 4367

STD MV
0.2 129.2
0.5 105.3
1.0 87.3
10.0 27.5

Sample	Volume	Final Volume	Meter
ICV	50 mL	50 mL	0.984
ICB			0.0
Blank			0.0
LCS			1.72
38382-06			0.0375
-Dup 016			0.0356
-MS 016			0.984
38805-01			0.0361
-02			0.0478
-03			0.0702
-06			0.00729
36640-01			0.734
CCV			0.993
CCB			0.0
-02			0.703
37088-01			1.04
-02			1.33
-03			1.03
37398-01			0.119
-02			1.16
-03			0.996
-04			0.694
-05			0.00731
CCV			0.987
CCB			0.0

Continued from Page

SIGNATURE

DATE

DISCLOSED TO AND UNDERSTOOD BY

DATE

PROPRIETARY INFORMATION

Tube	Sample	Volume	Final Volume	Block	Comments
1	Blank	50 mL	50 mL	Phenol #2	DTH 6/24/25 01:47
2	LCS				1.0 mL FO6152025-100ppm
3	38382-06				
4	-Dup 06				
5	-MS 06				0.5 mL FO6152025-100ppm
6	38805-01				
7	-02				
8	-05				
9	-06				
10	36690-01				
11	-02			Fluoride #1	
12	37088-03 01				
13	^{DTH} ^{Glauber} 04 02				
14	-05 03				
15	37398-01				
16	02				
17	63				
18	64				
19	05				
20	34495-54				

TITLE

PROJECT

Continued from Page

WG2082083



Analyst: DT H

Date & Time: 6/23/25 06:53

ICV:F 06152025-100 ppm

LCS:F 06152025-100 ppm

Spike:F 06152025-100 ppm

Curve:WC- 3575

TISAB III: R- 4367

STD	MV
0.2	128.8
0.5	104.6
1.0	86.4
10.0	27.1

Sample	Volume	Final Vol	Meter
ICV	50 mL	50 mL	0.968
ICB			0.0
Blank			0.0
LCS			1.70
36247-12			0.0299
-DPIA			0.0284
-MSIA			0.991
-16			0.118
-17			0.107
36930-01			0.151
-02			0.0668
-03			0.0642
CUV			0.964
CUB			0.0
-04			0.0552
37748-01	10x (5mL, 50mL)		1.38
38382-01			0.0389
-02			0.0302
-03			0.0355
-04			0.0373
-05			0.0260
-07			0.0239
38805-03			0.0217
-04			0.0264
CUV			0.0 - 0.969
CUB			0.0

Continued from Page

SIGNATURE

DATE

DISCLOSED TO AND UNDERSTOOD BY

DATE

PROPRIETARY INFORMATION

TITLE _____

Book No. _____

Confident

From Page No. _____

Tube	Sample	Volume	Final Volume	Block	Comments
1	Blank	50mL	50mL	Phenol #2	DTH 6/23/25 00:41
2	LCS				1.0mL F06152025-100ppm
3	36247-12				
4	-Dup 12				
5	-ms 12				0.5mL F06152025-100ppm
6	-116				
7	-17				
8	36430-01				
9	-02				
10	-03				
11	-04				
12	37748-01	10x (5mL 50mL)			
13	38382-01	50mL			
14	-02				
15	-03				
16	-04				
17	-05				
18	-07				
19	38805-03				
20	-04				

To Page No. _____

Witnessed & Understood by me, _____

Date _____

Invented by: _____

Date _____

Recorded by: _____

Phosphates Analysis

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-01	Date Collected	: 06/18/25 09:00
Client ID	: MW-8S	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/24/25 15:30
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500P-E(M)	Analyst	: MEF
Lab File ID	: PHOS062425-WG2082473.csv	Instrument ID	: SEAL2
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	: 06/24/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7723-14-0	Phosphate, Total	0.378	0.031	0.012	



Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-02	Date Collected	: 06/18/25 09:05
Client ID	: MW-8D	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/24/25 15:31
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500P-E(M)	Analyst	: MEF
Lab File ID	: PHOS062425-WG2082473.csv	Instrument ID	: SEAL2
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	: 06/24/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7723-14-0	Phosphate, Total	0.031	0.031	0.012	

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-03	Date Collected	: 06/18/25 10:30
Client ID	: MW-5D	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/24/25 15:31
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500P-E(M)	Analyst	: MEF
Lab File ID	: PHOS062425-WG2082473.csv	Instrument ID	: SEAL2
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	: 06/24/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7723-14-0	Phosphate, Total	0.212	0.031	0.012	

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-04	Date Collected	: 06/18/25 10:45
Client ID	: PZ-5	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/24/25 15:34
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500P-E(M)	Analyst	: MEF
Lab File ID	: PHOS062425-WG2082473.csv	Instrument ID	: SEAL2
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	: 06/24/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7723-14-0	Phosphate, Total	0.065	0.031	0.012	

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-05	Date Collected	: 06/18/25 13:20
Client ID	: MW-12S	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/24/25 15:35
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500P-E(M)	Analyst	: MEF
Lab File ID	: PHOS062425-WG2082473.csv	Instrument ID	: SEAL2
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	: 06/24/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7723-14-0	Phosphate, Total	0.080	0.031	0.012	

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-06	Date Collected	: 06/18/25 13:22
Client ID	: MW-12D	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/24/25 15:36
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500P-E(M)	Analyst	: MEF
Lab File ID	: PHOS062425-WG2082473.csv	Instrument ID	: SEAL2
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	: 06/24/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7723-14-0	Phosphate, Total	0.037	0.031	0.012	

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-07	Date Collected	: 06/18/25 12:00
Client ID	: DUP_06182025	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/24/25 15:38
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 121,4500P-E(M)	Analyst	: MEF
Lab File ID	: PHOS062425-WG2082473.csv	Instrument ID	: SEAL2
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	: 06/24/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7723-14-0	Phosphate, Total	0.052	0.031	0.012	

Form 1

WETCHEM

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Lab ID : WG2082473-1
Client ID : WG2082473-1BLANK
Sample Location :
Sample Matrix : WATER
Analytical Method : 121,4500P-E(M)
Lab File ID : PHOS062425-WG2082473.csv
Sample Amount :
Digestion Method :

Lab Number : L2538382
Project Number : 2232.0006Y005
Date Collected : NA
Date Received : NA
Date Analyzed : 06/24/25 15:11
Dilution Factor : 1
Analyst : MEF
Instrument ID : SEAL2
%Solids : N/A
Date Digested : 06/24/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7723-14-0	Phosphate, Total	0.015	0.031	0.012	J

Form 1

WETCHEM

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Lab ID : WG2082473-3
Client ID : WG2082473-3 DUP
Sample Location :
Sample Matrix : WATER
Analytical Method : 121,4500P-E(M)
Lab File ID : PHOS062425-WG2082473.csv
Sample Amount :
Digestion Method :

Lab Number : L2538382
Project Number : 2232.0006Y005
Date Collected : 06/17/25 09:15
Date Received : 06/17/25
Date Analyzed : 06/24/25 15:20
Dilution Factor : 1
Analyst : MEF
Instrument ID : SEAL2
%Solids : N/A
Date Digested : 06/24/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7723-14-0	Phosphate, Total	0.089	0.031	0.012	

Form 1

WETCHEM

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Lab ID : WG2082473-5
Client ID : MW-12DDUP
Sample Location :
Sample Matrix : WATER
Analytical Method : 121,4500P-E(M)
Lab File ID : PHOS062425-WG2082473.csv
Sample Amount :
Digestion Method :

Lab Number : L2538382
Project Number : 2232.0006Y005
Date Collected : 06/18/25 13:22
Date Received : 06/18/25
Date Analyzed : 06/24/25 15:37
Dilution Factor : 1
Analyst : MEF
Instrument ID : SEAL2
%Solids : N/A
Date Digested : 06/24/25

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7723-14-0	Phosphate, Total	0.040	0.031	0.012	

Sample Raw Data

AQ2 Tray Report



Software version : 2.4.5
Report requested by : MFlaherty
Date \ Time : 24-Jun-2025 16:30:54
Tray number : 1
Tray name : WG2082473

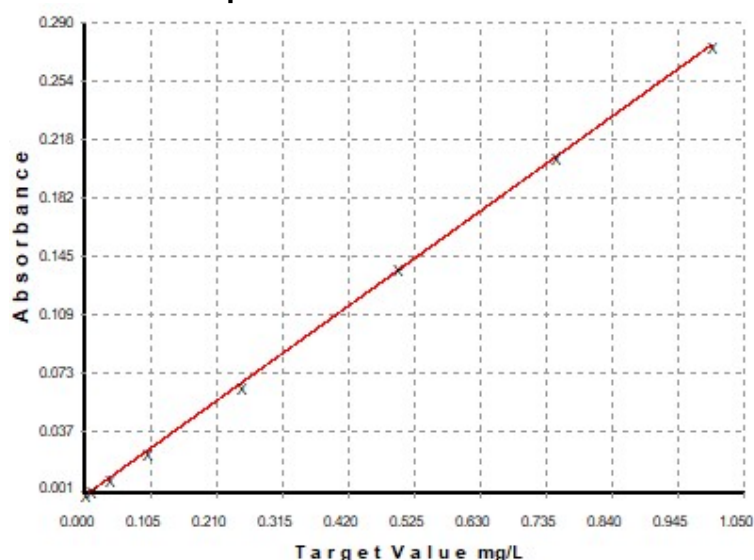
T-Phos 1

Calibration Chart

Type	Absorbance	Calc mg/L	Target mg/L	% Error
S1	0.0009	0.006	0.000	
S90	0.0030	0.014	0.010	41.48
S91	0.0094	0.037	0.040	-7.36
S92	0.0256	0.096	0.100	-4.44
S93	0.0662	0.242	0.250	-3.11
S94	0.1387	0.504	0.500	0.83
S95	0.2070	0.751	0.750	0.07
S96	0.2761	1.000	1.000	-0.00
S0	0.0011	0.007	0.000	

Polynomial Order : 1
 Correlation Coefficient : 0.9999
 Carryover(%) : 0.1
 Calibration equation: $y = bx + a$
 y =: Concentration mg/L
 x =: Measured absorbance
 a =: 3.161442E-03
 b =: 3.610768E+00
 Date & Time : 24-Jun-2025 15:08:45

Calibration Graph



Reagents

Reagent Name	Batch Number	Operator	Expiry Date
TP Working Color	TP Color-06222025	MEF	29-Jun-2025 00:00:00
TP Ascorbic	TP Ascorbic-06182025	MEF	25-Jun-2025 00:00:00

Test Results

Cup Type	ID	Sample Details	Result	Units	QC Pro	Raw Data	Auto Dil.	Man Dil.	User	Time & Date
S1	Standard 1		0.001			0.000885			MEF	24-Jun-2025 15:00:58
S90	Standard 90		0.003			0.003043			MEF	24-Jun-2025 15:01:57
S91	Standard 91		0.009			0.009388			MEF	24-Jun-2025 15:02:55
S92	Standard 92		0.026			0.025590			MEF	24-Jun-2025 15:03:53
S93	Standard 93		0.066			0.066205			MEF	24-Jun-2025 15:04:51
S94	Standard 94		0.139			0.138742			MEF	24-Jun-2025 15:05:49
S95	Standard 95		0.207			0.206988			MEF	24-Jun-2025 15:06:48
S96	Standard 96		0.276			0.276072			MEF	24-Jun-2025 15:07:46
S0	Standard 0		0.001			0.001052			MEF	24-Jun-2025 15:08:45
2	ICV	ICV 24-JUN-2025 14-24	0.511	mg/L		0.140770			MEF	24-Jun-2025 15:09:44
3	ICB	ICB 24-JUN-2025 14-24	0.005	mg/L		0.000525			MEF	24-Jun-2025 15:10:45
4	U1	WG2082473-1O 24-JUN-2025 14-24	0.005	ELL mg/L		0.000632			MEF	24-Jun-2025 15:11:45
5	U2	WG2082473-2O 24-JUN-2025 14-24	0.512	mg/L		0.141017			MEF	24-Jun-2025 15:12:44
6	U3	L2536544-01O1O 24-JUN-2025 14-24	119.748	mg/L		0.131781	x25.0000	x10.0000	MEF	24-Jun-2025 16:12:54
6	U3	L2536544-01O1O 24-JUN-2025 14-24	106.861	mg/L		0.591028	x5.0000	x10.0000	MEF	24-Jun-2025 15:55:55
6	U3	L2536544-01O1O 24-JUN-2025 14-24	34.015	mg/L		0.941177		x10.0000	MEF	24-Jun-2025 15:13:43
7	U4	L2537655-01O 24-JUN-2025 14-24	0.013	mg/L		0.002800			MEF	24-Jun-2025 15:14:42
8	U5	L2537655-02O 24-JUN-2025 14-24	0.952	mg/L		0.262836			MEF	24-Jun-2025 15:15:41
9	U6	L2537655-03O 24-JUN-2025 14-24	0.004	ELL mg/L		0.000334			MEF	24-Jun-2025 15:16:40

10	U7	L2537655-04O	24-JUN-2025 14-24	0.008	mg/L	0.001349	MEF	24-Jun-2025 15:17:39
11	U8	L2537655-05O	24-JUN-2025 14-24	0.012	mg/L	0.002425	MEF	24-Jun-2025 15:18:38
12	U9	L2538013-01O	24-JUN-2025 14-24	0.031	mg/L	0.007762	MEF	24-Jun-2025 15:19:37
13	U10	WG2082473-3O	24-JUN-2025 14-24	0.029	mg/L	0.007059	MEF	24-Jun-2025 15:20:35
	CCV	CCV		0.513	mg/L	0.141192	MEF	24-Jun-2025 15:21:34
	CCB	CCB		0.006	mg/L	0.000715	MEF	24-Jun-2025 15:22:35
14	U11	WG2082473-4O	24-JUN-2025 14-24	0.552	mg/L	0.152017	MEF	24-Jun-2025 15:23:36
15	U12	L2538013-02O	24-JUN-2025 14-24	0.033	mg/L	0.008284	MEF	24-Jun-2025 15:24:34
16	U13	L2538013-03O	24-JUN-2025 14-24	0.102	mg/L	0.027332	MEF	24-Jun-2025 15:25:33
17	U14	L2538013-04O	24-JUN-2025 14-24	0.029	mg/L	0.007042	MEF	24-Jun-2025 15:26:31
18	U15	L2538013-05O	24-JUN-2025 14-24	0.091	mg/L	0.024375	MEF	24-Jun-2025 15:27:29
19	U16	L2538013-06O	24-JUN-2025 14-24	0.070	mg/L	0.018563	MEF	24-Jun-2025 15:28:27
20	U17	L2538013-07O	24-JUN-2025 14-24	0.021	mg/L	0.004895	MEF	24-Jun-2025 15:29:25
21	U18	L2538382-01O	24-JUN-2025 14-24	0.123	mg/L	0.033188	MEF	24-Jun-2025 15:30:26
22	U19	L2538382-02O	24-JUN-2025 14-24	0.010	mg/L	0.001812	MEF	24-Jun-2025 15:31:26
23	U20	L2538382-03O	24-JUN-2025 14-24	0.069	mg/L	0.018200	MEF	24-Jun-2025 15:31:59
	CCV	CCV		0.520	mg/L	0.143032	MEF	24-Jun-2025 15:32:57
	CCB	CCB		0.006	mg/L	0.000738	MEF	24-Jun-2025 15:33:48
24	U21	L2538382-04O	24-JUN-2025 14-24	0.021	mg/L	0.004927	MEF	24-Jun-2025 15:34:40
25	U22	L2538382-05O	24-JUN-2025 14-24	0.026	mg/L	0.006214	MEF	24-Jun-2025 15:35:31
26	U23	L2538382-06O	24-JUN-2025 14-24	0.012	mg/L	0.002336	MEF	24-Jun-2025 15:36:22
27	U24	WG2082473-5O	24-JUN-2025 14-24	0.013	mg/L	0.002815	MEF	24-Jun-2025 15:37:13
28	U25	WG2082473-6O	24-JUN-2025 14-24	0.526	mg/L	0.144777	MEF	24-Jun-2025 15:38:05
29	U26	L2538382-07O	24-JUN-2025 14-24	0.017	mg/L	0.003920	MEF	24-Jun-2025 15:38:56
	CCV	CCV		0.512	mg/L	0.140959	MEF	24-Jun-2025 15:39:47
	CCB	CCB		0.006	mg/L	0.000810	MEF	24-Jun-2025 15:40:38
	CCV	CCV		0.507	mg/L	0.139623	MEF	24-Jun-2025 15:54:12
	CCB	CCB		0.007	mg/L	0.000928	MEF	24-Jun-2025 15:55:03
	CCV	CCV		0.511	mg/L	0.140611	MEF	24-Jun-2025 15:56:46
	CCB	CCB		0.008	mg/L	0.001345	MEF	24-Jun-2025 15:57:38
	CCV	CCV		0.513	mg/L	0.141085	MEF	24-Jun-2025 16:11:11
	CCB	CCB		0.007	mg/L	0.001046	MEF	24-Jun-2025 16:12:02
	CCV	CCV		0.513	mg/L	0.141117	MEF	24-Jun-2025 16:13:45
	CCB	CCB		0.007	mg/L	0.001034	MEF	24-Jun-2025 16:14:36

Quality Control

Form 5a Matrix Spike

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : NA
 Lab Sample ID : L2538013-01
 Matrix Spike : WG2082473-4
 Matrix Spike Dup :

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Matrix : WATER

MS Analysis Date : 06/24/25 15:23
 MSD Analysis Date :

Parameter	Sample Conc. (mg/l)	Matrix Spike Sample		%R	Matrix Spike Duplicate		%R	RPD	Recovery Limits	RPD Limit
		Spike Added (mg/l)	Spike Conc. (mg/l)		Spike Added (mg/l)	Spike Conc. (mg/l)				
Phosphate, Total	0.095	1.53	1.69	104					80-120	15



Form 5a Matrix Spike

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : MW-12D
 Lab Sample ID : L2538382-06
 Matrix Spike : WG2082473-6
 Matrix Spike Dup :

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Matrix : WATER
 MS Analysis Date : 06/24/25 15:38
 MSD Analysis Date :

Parameter	Sample Conc. (mg/l)	Matrix Spike Sample		%R	Matrix Spike Duplicate		%R	RPD	Recovery Limits	RPD Limit
		Spike Added (mg/l)	Spike Conc. (mg/l)		Spike Added (mg/l)	Spike Conc. (mg/l)				
Phosphate, Total	0.037	1.53	1.61	103					80-120	15

Form 6 Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Client Sample ID	: NA	Matrix	: WATER
Lab Sample ID	: NA	Analysis Date	: 06/24/25 15:19
Dup Sample ID	: WG2082473-3	DUP Analysis Date	: 06/24/25 15:20

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Phosphate, Total	0.095	0.089	7	15



Form 6 Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Client Sample ID	: MW-12D	Matrix	: WATER
Lab Sample ID	: L2538382-06	Analysis Date	: 06/24/25 15:36
Dup Sample ID	: WG2082473-5	DUP Analysis Date	: 06/24/25 15:37

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Phosphate, Total	0.037	0.040	8	15



Form 7
Laboratory Control Sample

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Client Sample ID : NA
Lab Sample ID : WG2082473-2
Dup Sample ID :

Lab Number : L2538382
Project Number : 2232.0006Y005
Matrix : WATER
LCS Analysis Date : 06/24/25 15:12
LCSD Analysis Date :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R			
Phosphate, Total	1.53	1.57	103.					84-118	15

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

[illegible]

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the Information provided in this table is subject to change at anytime at the discretion of the laboratory.

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

[illegible]

Please Note that the RL Information provided in this table is calculated using a 100% Solids factor. (Soll/Solids only)
Please Note that the Information provided in this table is subject to change at anytime at the discretion of the laboratory.

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

[illegible]

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the Information provided in this table is subject to change at anytime at the discretion of the laboratory.

Date Created: 11/11/21
Created By: Jason Hebert
File: PM11468-1
Page: 1

WETCHEM (SOIL)

[illegible]

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the Information provided in this table is subject to change at anytime at the discretion of the laboratory.

Calculations of TPhosphorus

Aqueous samples:

Calculate the concentration value of the sample directly from the standard curve. All calculations are done by SEAL (segment flow spectrometer).

$$\text{Mg TPhosphorus/L} = \frac{\text{absorbance} - \text{y-intercept}}{\text{slope}} \times \text{Dilution Factor}$$

Wet Chemistry
By
IC Methods

Results

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-01	Date Collected	: 06/18/25 09:00
Client ID	: MW-8S	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/26/25 17:49
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 44,300.0	Analyst	: CVN,
Lab File ID	: WG2083987	Instrument ID	: IC3
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
24959-67-9	Bromide	0.076	0.050	0.013	

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-02	Date Collected	: 06/18/25 09:05
Client ID	: MW-8D	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/26/25 18:02
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 44,300.0	Analyst	: CVN,
Lab File ID	: WG2083987	Instrument ID	: IC3
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
24959-67-9	Bromide	0.054	0.050	0.013	

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-03	Date Collected	: 06/18/25 10:30
Client ID	: MW-5D	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/26/25 18:14
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 44,300.0	Analyst	: CVN,
Lab File ID	: WG2083987	Instrument ID	: IC3
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
24959-67-9	Bromide	0.068	0.050	0.013	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-04	Date Collected	: 06/18/25 10:45
Client ID	: PZ-5	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/26/25 18:26
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 44,300.0	Analyst	: CVN,
Lab File ID	: WG2083987	Instrument ID	: IC3
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
24959-67-9	Bromide	0.040	0.050	0.013	J

Form 1

WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-05	Date Collected	: 06/18/25 13:20
Client ID	: MW-12S	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/26/25 18:38
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 44,300.0	Analyst	: CVN,
Lab File ID	: WG2083987	Instrument ID	: IC3
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
24959-67-9	Bromide	ND	0.050	0.013	U

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-06	Date Collected	: 06/18/25 13:22
Client ID	: MW-12D	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/26/25 18:50
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 44,300.0	Analyst	: CVN,
Lab File ID	: WG2083987	Instrument ID	: IC3
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
24959-67-9	Bromide	0.069	0.050	0.013	

Form 1
WETCHEM

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Lab ID	: L2538382-07	Date Collected	: 06/18/25 12:00
Client ID	: DUP_06182025	Date Received	: 06/18/25
Sample Location	: 416 MILLER PLACE-YAPHANK RD.	Date Analyzed	: 06/26/25 19:26
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 44,300.0	Analyst	: CVN,
Lab File ID	: WG2083987	Instrument ID	: IC3
Sample Amount	:	%Solids	: N/A
Digestion Method	:	Date Digested	:

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
24959-67-9	Bromide	0.046	0.050	0.013	J

Form 1

WETCHEM

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Lab ID : WG2083987-1
Client ID : WG2083987-1BLANK
Sample Location :
Sample Matrix : WATER
Analytical Method : 44,300.0
Lab File ID : WG2083987
Sample Amount :
Digestion Method :

Lab Number : L2538382
Project Number : 2232.0006Y005
Date Collected : NA
Date Received : NA
Date Analyzed : 06/26/25 15:00
Dilution Factor : 1
Analyst : CVN,
Instrument ID : IC3
%Solids : N/A
Date Digested :

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
24959-67-9	Bromide	ND	0.050	0.013	U

Form 1

WETCHEM

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Lab ID : WG2083987-4
Client ID : WG2083987-4 DUP
Sample Location :
Sample Matrix : WATER
Analytical Method : 44,300.0
Lab File ID : WG2083987
Sample Amount :
Digestion Method :

Lab Number : L2538382
Project Number : 2232.0006Y005
Date Collected : 06/25/25 12:48
Date Received : 06/25/25
Date Analyzed : 06/26/25 17:13
Dilution Factor : 1
Analyst : CVN,
Instrument ID : IC3
%Solids : N/A
Date Digested :

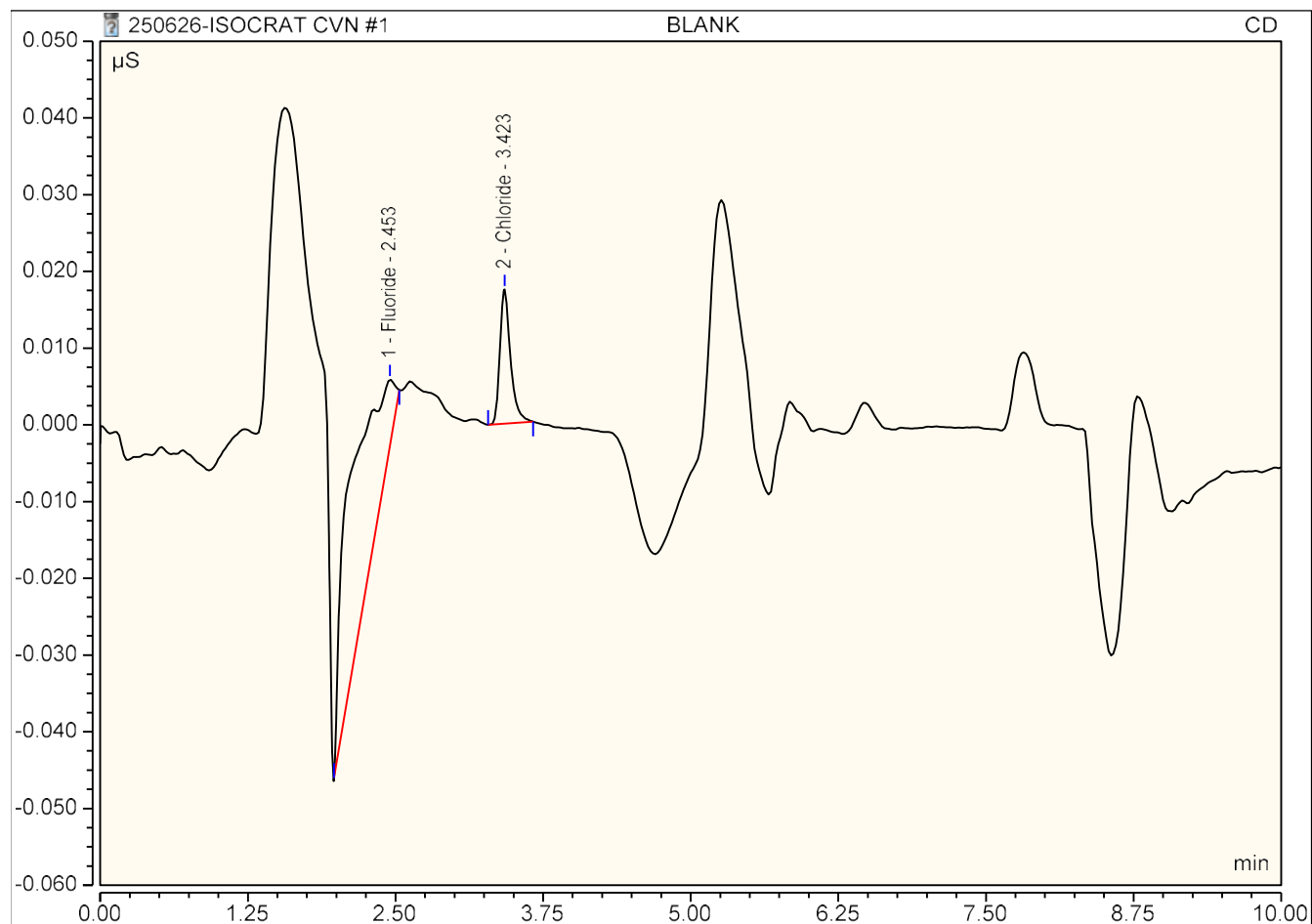
CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
24959-67-9	Bromide	ND	0.050	0.013	U

Sample Raw Data

Peak Integration Report

Sample Name:	BLANK	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	21-May-2025 / 19:51	Run Time:	10.00

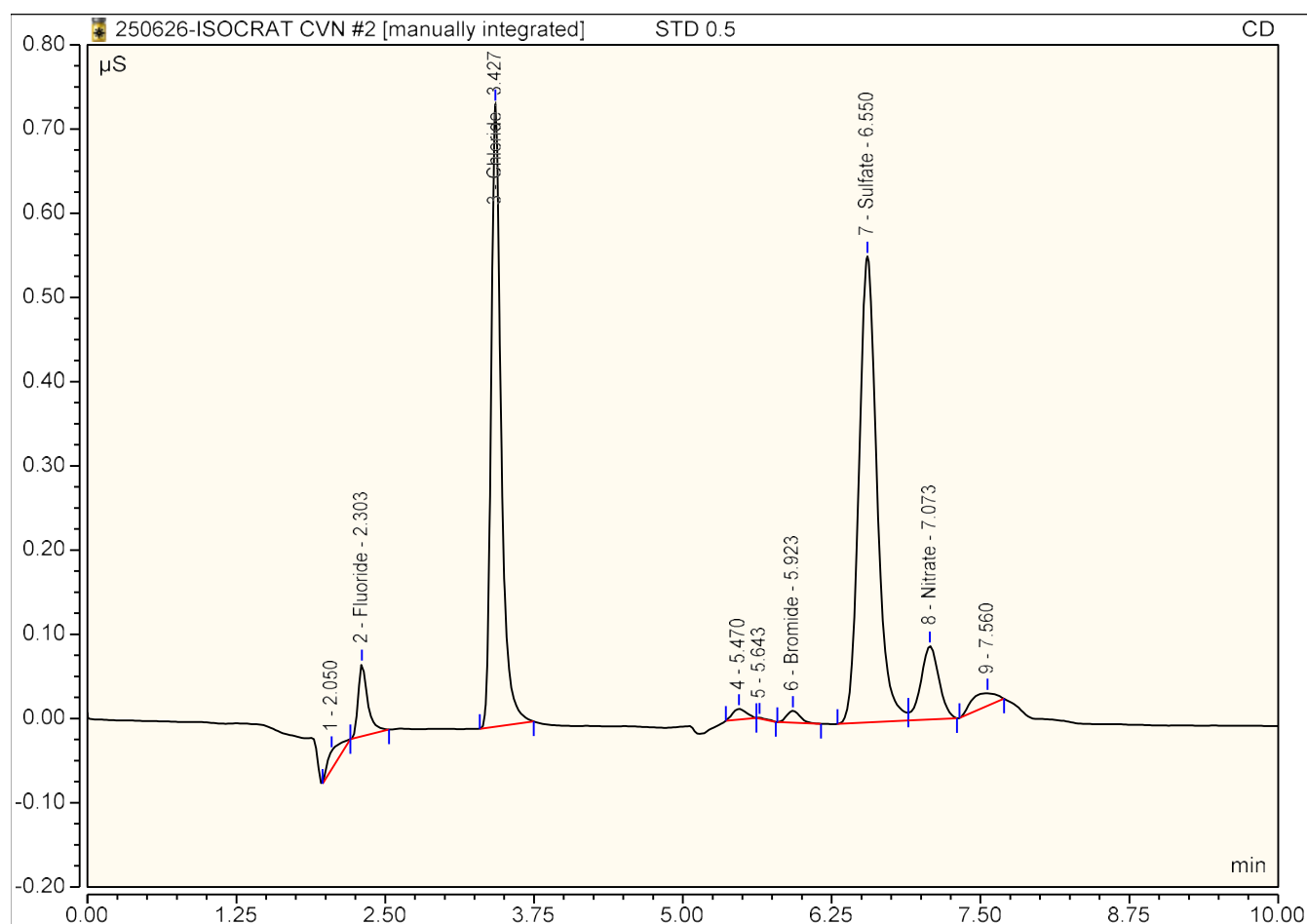
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
1	2.45	Fluoride	BMB	0.009	0.009	0.0440
2	3.42	Chloride	BMB	0.002	0.017	0.1000
TOTAL:				0.01	0.03	0.14



Peak Integration Report

Sample Name:	STD 0.5	Inj. Vol.:	25.00
Injection Type:	Calibration Standard	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	21-May-2025 / 20:04	Run Time:	10.00

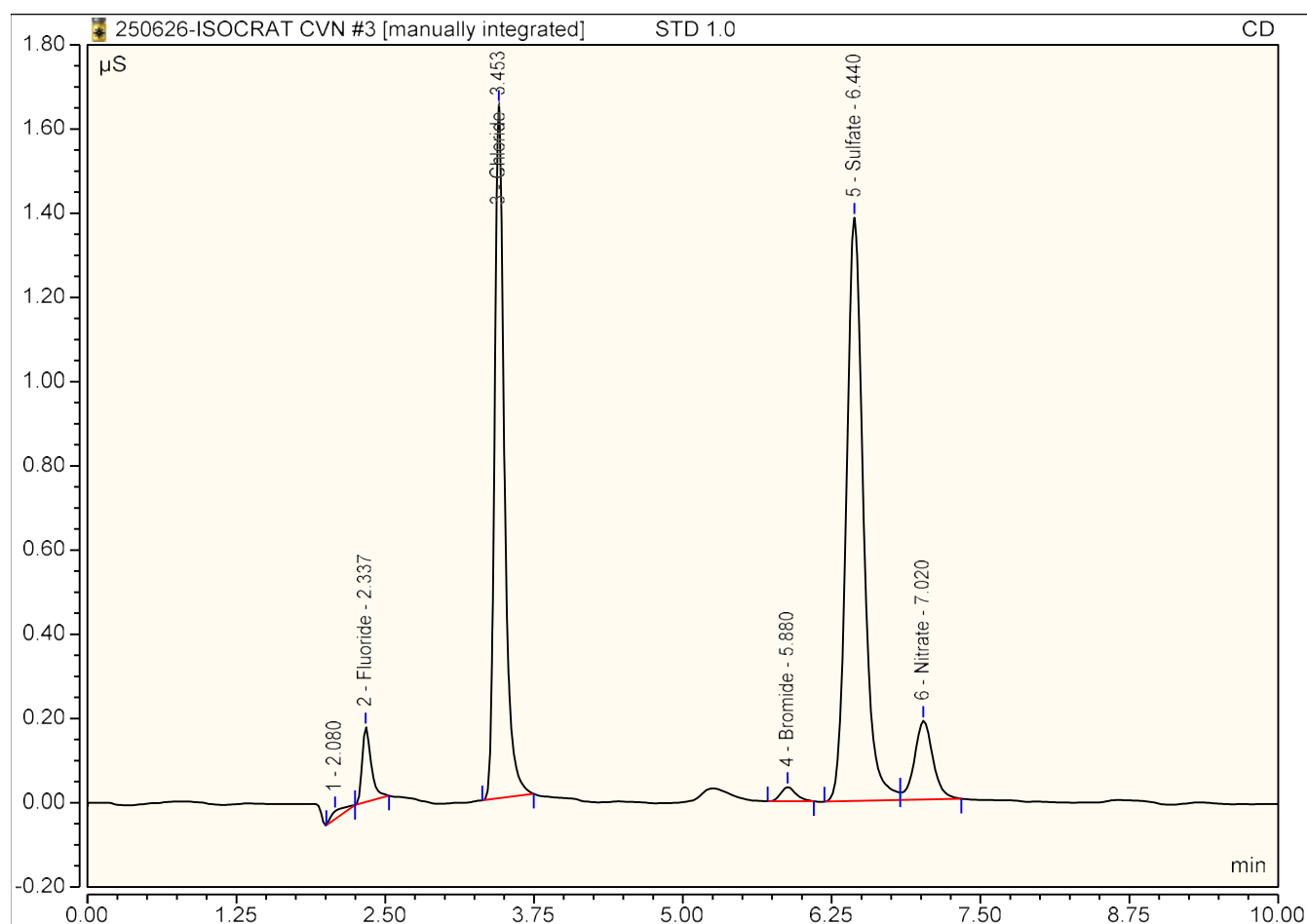
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.30	Fluoride	BMB	0.008	0.086	0.0418
3	3.43	Chloride	BMB	0.072	0.739	0.2829
6	5.92	Bromide	BMB	0.002	0.014	0.0511
7	6.55	Sulfate	BM *	0.097	0.553	1.0180
8	7.07	Nitrate	MB*	0.015	0.087	0.0429
TOTAL:				0.19	1.48	1.44



Peak Integration Report

Sample Name:	STD 1.0	Inj. Vol.:	25.00
Injection Type:	Calibration Standard	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	21-May-2025 / 20:16	Run Time:	10.00

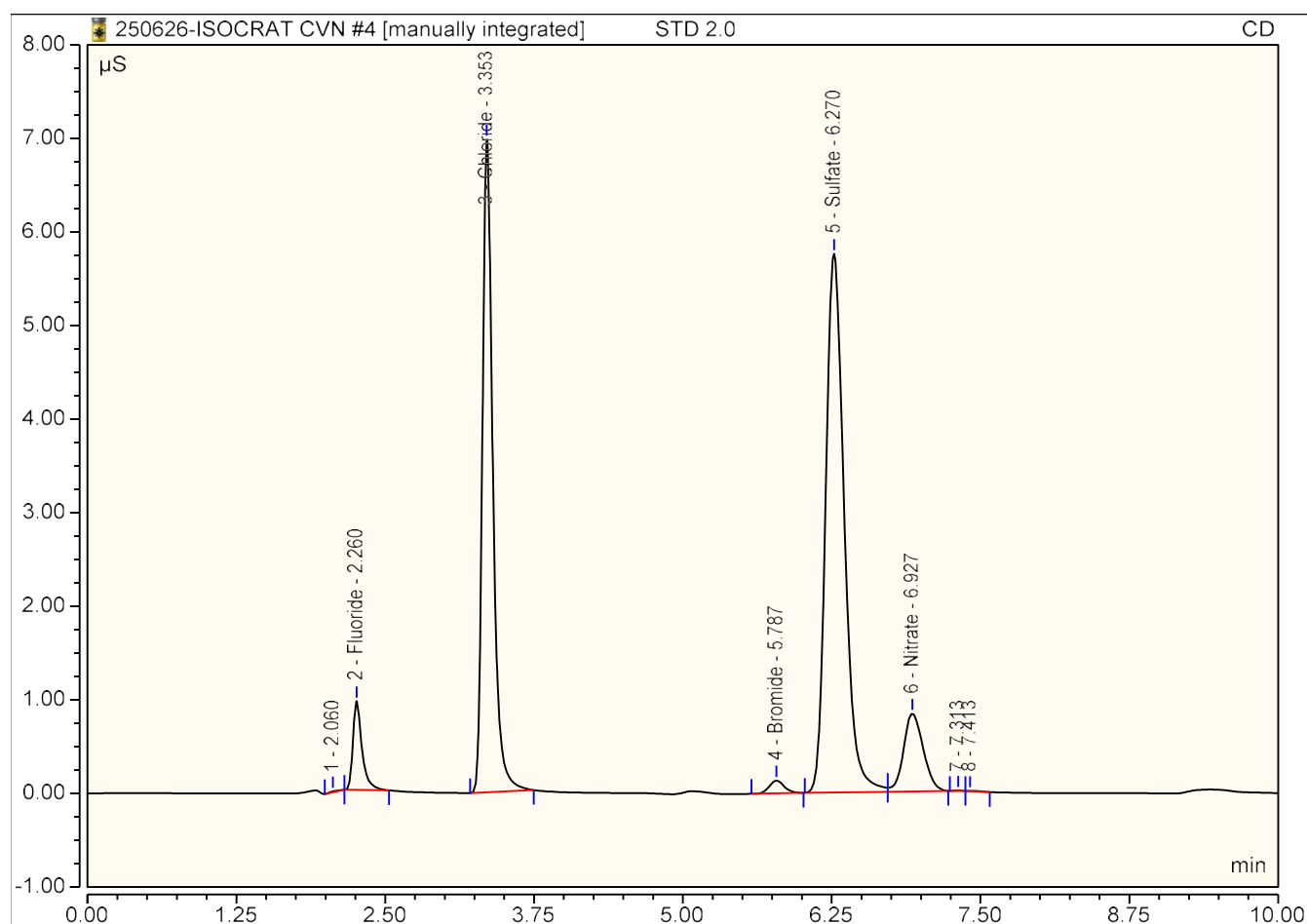
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.34	Fluoride	BMB	0.016	0.178	0.0555
3	3.45	Chloride	BMB	0.158	1.647	0.5048
4	5.88	Bromide	BMB	0.005	0.034	0.0744
5	6.44	Sulfate	BM *	0.230	1.385	1.4554
6	7.02	Nitrate	MB*	0.034	0.187	0.0622
TOTAL:				0.44	3.43	2.15



Peak Integration Report

Sample Name:	STD 2.0	Inj. Vol.:	25.00
Injection Type:	Calibration Standard	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	21-May-2025 / 20:28	Run Time:	10.00

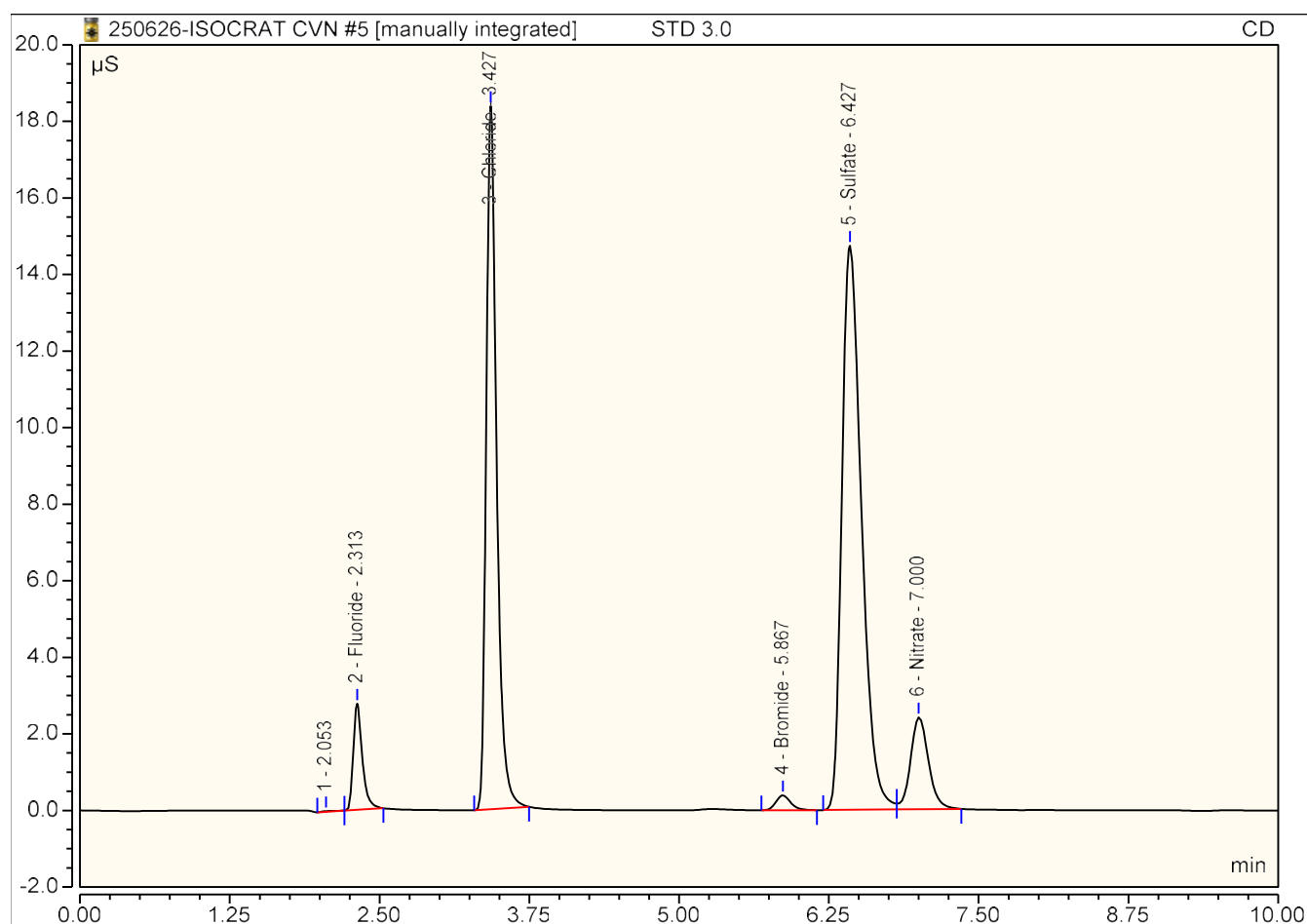
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.26	Fluoride	BMB	0.083	0.947	0.1773
3	3.35	Chloride	BMB	0.708	6.976	1.9278
4	5.79	Bromide	BMB	0.020	0.138	0.1845
5	6.27	Sulfate	BM *	1.036	5.755	4.1152
6	6.93	Nitrate	MB*	0.160	0.832	0.1949
TOTAL:				2.01	14.65	6.60



Peak Integration Report

Sample Name:	STD 3.0	Inj. Vol.:	25.00
Injection Type:	Calibration Standard	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	21-May-2025 / 20:40	Run Time:	10.00

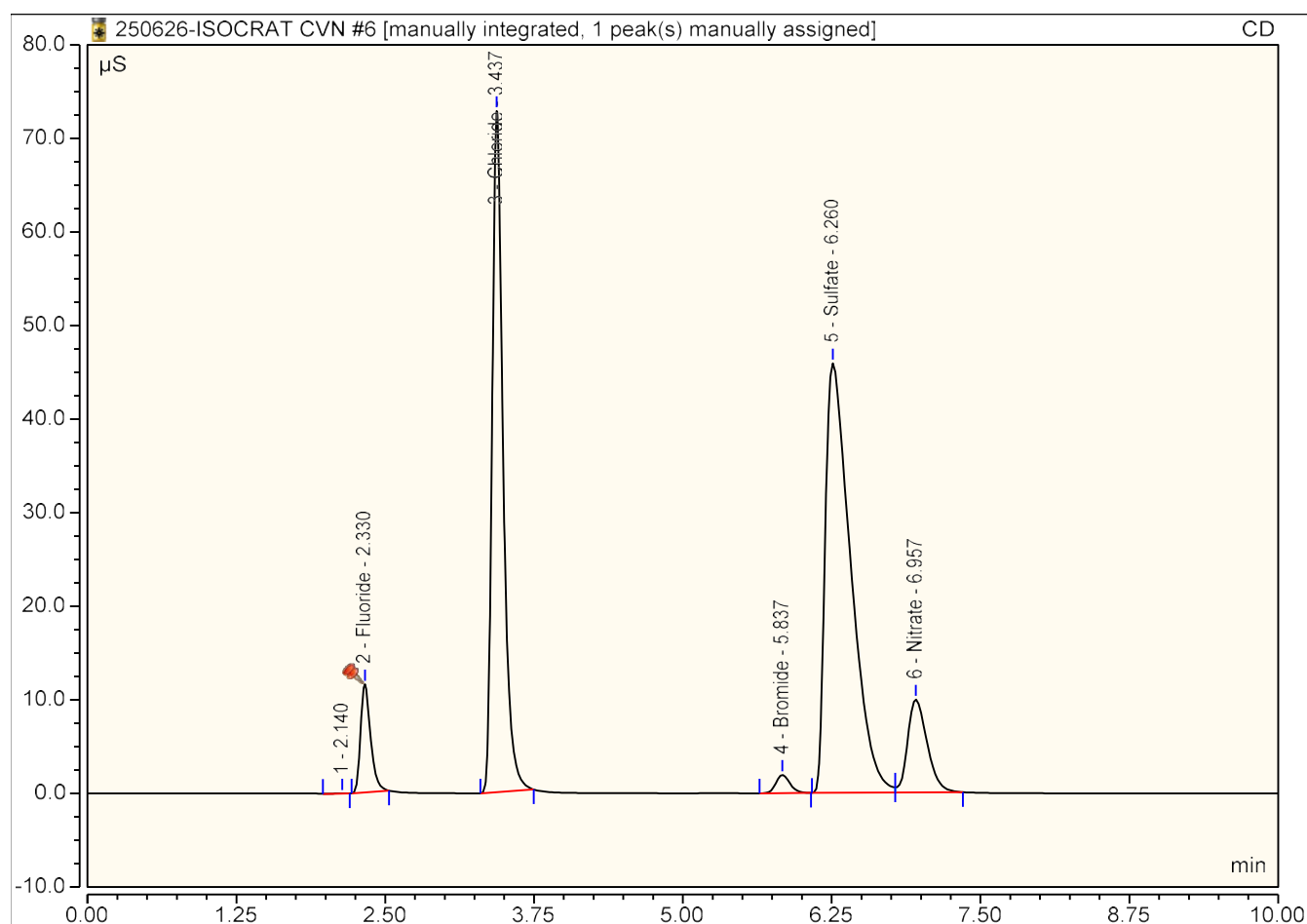
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.31	Fluoride	BMB	0.240	2.772	0.4593
3	3.43	Chloride	BMB	1.847	18.371	4.8782
4	5.87	Bromide	BMB	0.056	0.390	0.4524
5	6.43	Sulfate	BM *	2.792	14.733	9.9062
6	7.00	Nitrate	MB*	0.419	2.404	0.4665
TOTAL:				5.35	38.67	16.16



Peak Integration Report

Sample Name:	STD 4.0	Inj. Vol.:	25.00
Injection Type:	Calibration Standard	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	21-May-2025 / 20:52	Run Time:	10.00

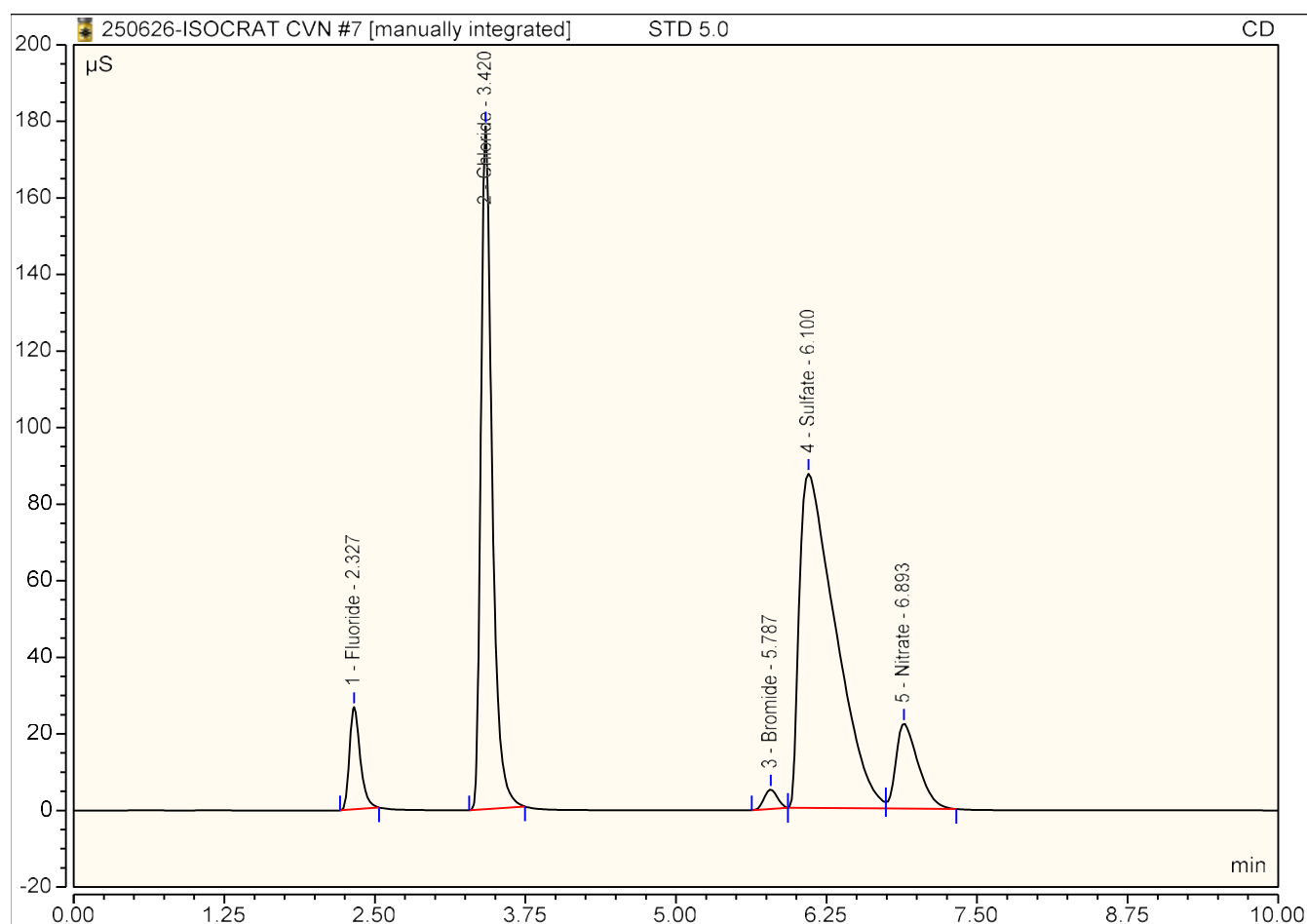
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.33	Fluoride	BMB^	1.128	11.556	2.0605
3	3.44	Chloride	BMB	7.777	72.796	20.2356
4	5.84	Bromide	BMB	0.266	1.950	2.0125
5	6.26	Sulfate	BM *	11.417	45.897	38.3461
6	6.96	Nitrate	MB*	1.886	9.931	2.0083
TOTAL:				22.47	142.13	64.66



Peak Integration Report

Sample Name:	STD 5.0	Inj. Vol.:	25.00
Injection Type:	Calibration Standard	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	21-May-2025 / 21:04	Run Time:	10.00

No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
1	2.33	Fluoride	BMB	2.748	26.716	4.9806
2	3.42	Chloride	BMB	19.240	178.379	49.9206
3	5.79	Bromide	BMB*	0.653	5.098	4.8837
4	6.10	Sulfate	bM *	30.313	87.355	100.6592
5	6.89	Nitrate	MB*	4.778	22.200	5.0460
TOTAL:				57.73	319.75	165.49

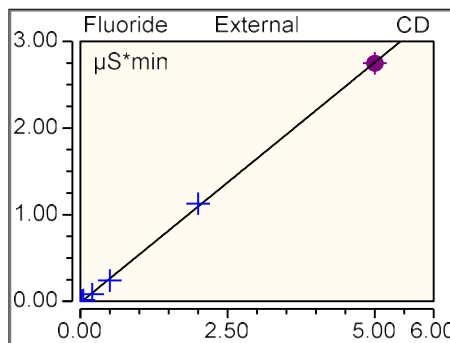


Calibration Batch Report

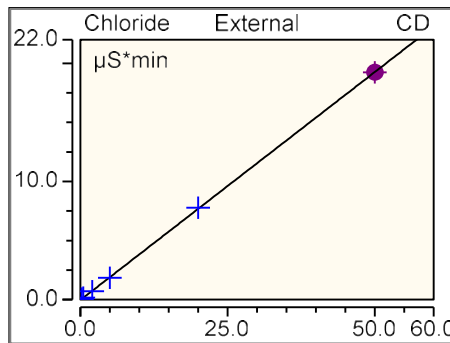
Sequence:	250626-ISOCRAT CVN	Injection Volume:	25.00
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	21-May-2025 / 21:04	Run Time:	10

Calibration Summary							
Peak Name	Eval.Type	Cal.Type	Points	Offset (C0)	Slope (C1)	Curve (C2)	Coeff.Det. %
Fluoride	Area	in, WithOffset	6.000	-0.015	0.555	0.000	99.9661
Chloride	Area	in, WithOffset	6.000	-0.037	0.386	0.000	99.9957
Bromide	Area	in, WithOffset	5.000	-0.005	0.135	0.000	99.8572
Sulfate	Area	in, WithOffset	6.000	-0.212	0.303	0.000	99.9523
Nitrate	Area	in, WithOffset	5.000	-0.026	0.952	0.000	99.9388
AVERAGE:				-0.0588	0.4662	0.0000	99.9420

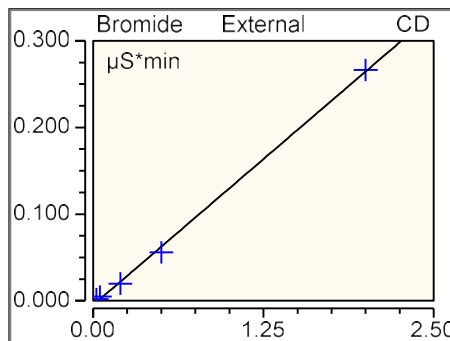
Injection Name	Ret.Time min	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount
	CD	CD	CD	CD
STD 0.5	Fluoride 2.303	Fluoride 0.0080	Fluoride 0.086	Fluoride 0.042
STD 1.0	2.337	0.0156	0.178	0.055
STD 2.0	2.260	0.0832	0.947	0.177
STD 3.0	2.313	0.2396	2.772	0.459
STD 4.0	2.330	1.1278	11.556	2.061
STD 5.0	2.327	2.7476	26.716	4.981
Average	2.312			
Rel. Std. Dev.	1.212 %			



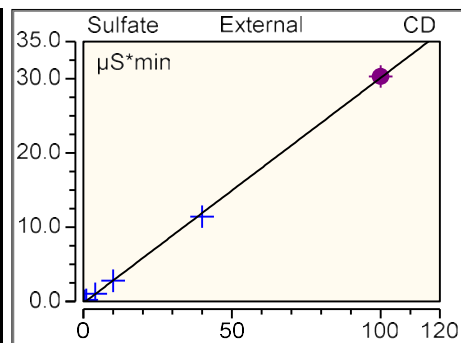
Injection Name	Ret.Time min	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount
	CD	CD	CD	CD
STD 0.5	Chloride 3.427	Chloride 0.0724	Chloride 0.739	Chloride 0.283
STD 1.0	3.453	0.1581	1.647	0.505
STD 2.0	3.353	0.7076	6.976	1.928
STD 3.0	3.427	1.8469	18.371	4.878
STD 4.0	3.437	7.7770	72.796	20.236
STD 5.0	3.420	19.2396	178.379	49.921
Average	3.419			
Rel. Std. Dev.	1.006 %			



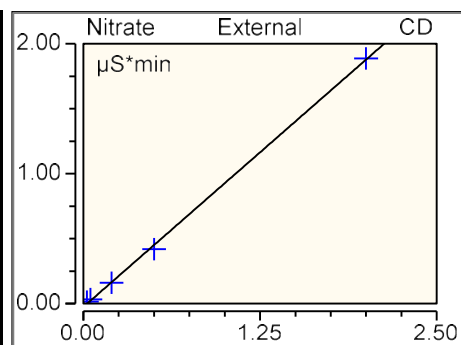
Injection Name	Ret.Time min	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount
	CD	CD	CD	CD
STD 0.5	Bromide 5.923	Bromide 0.0019	Bromide 0.014	Bromide 0.051
STD 1.0	5.880	0.0050	0.034	0.074
STD 2.0	5.787	0.0199	0.138	0.185
STD 3.0	5.867	0.0560	0.390	0.452
STD 4.0	5.837	0.2663	1.950	2.013
STD 5.0	5.787	0.6535	5.098	4.884
Average	5.847			
Rel. Std. Dev.	0.927 %			



Injection Name	Ret. Time min CD	Area $\mu\text{S} \cdot \text{min}$ CD	Height μS CD	Amount CD
STD 0.5	Sulfate 6.550	Sulfate 0.0971	Sulfate 0.553	Sulfate 1.018
STD 1.0	6.440	0.2297	1.385	1.455
STD 2.0	6.270	1.0363	5.755	4.115
STD 3.0	6.427	2.7924	14.733	9.906
STD 4.0	6.260	11.4169	45.897	38.346
STD 5.0	6.100	30.3133	87.355	100.659
Average	6.341			
Rel. Std. Dev.	2.548 %			



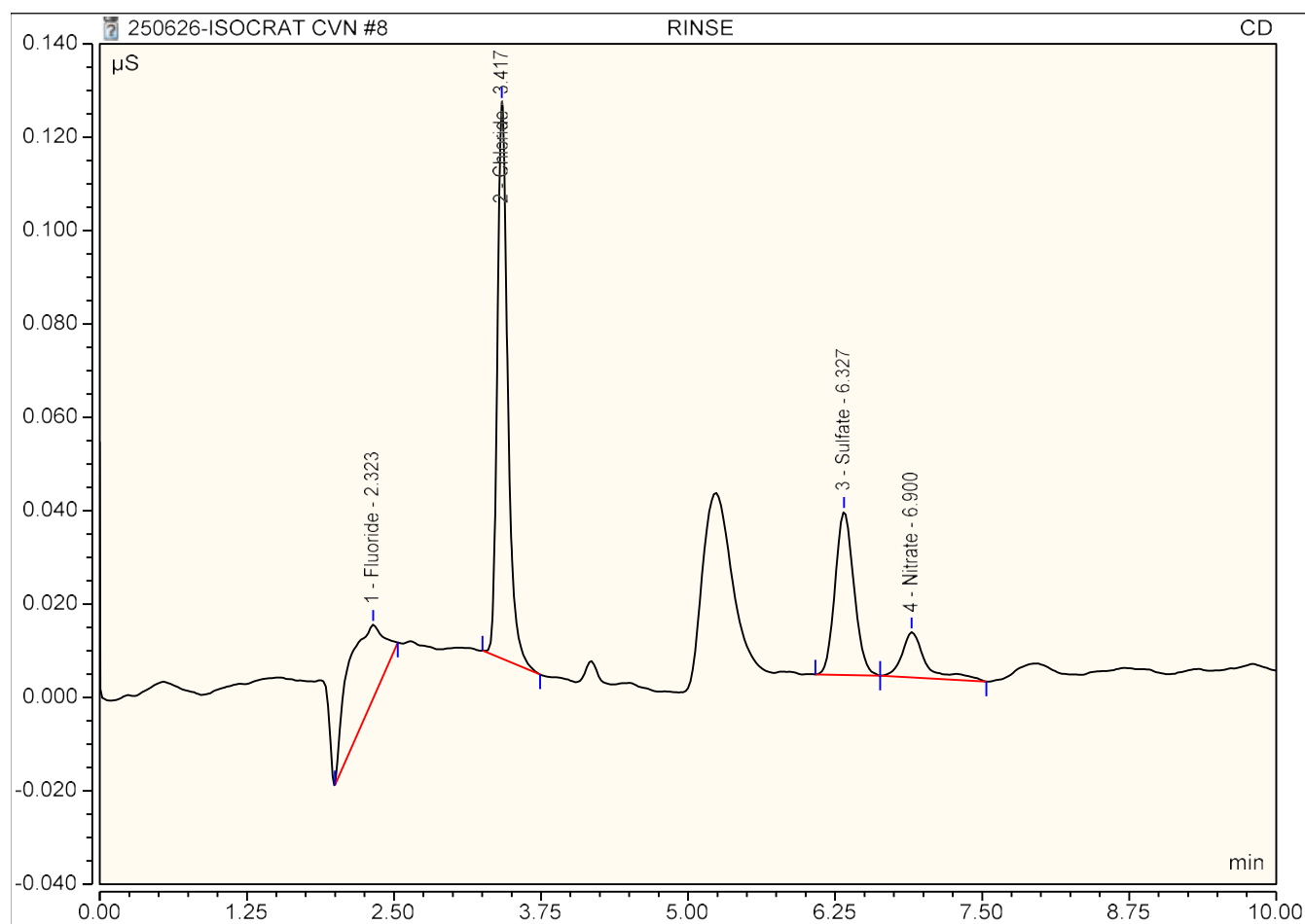
Injection Name	Ret. Time min CD	Area $\mu\text{S} \cdot \text{min}$ CD	Height μS CD	Amount CD
STD 0.5	Nitrate 7.073	Nitrate 0.0153	Nitrate 0.087	Nitrate 0.043
STD 1.0	7.020	0.0337	0.187	0.062
STD 2.0	6.927	0.1600	0.832	0.195
STD 3.0	7.000	0.4186	2.404	0.467
STD 4.0	6.957	1.8863	9.931	2.008
STD 5.0	6.893	4.7780	22.200	5.046
Average	6.978			
Rel. Std. Dev.	0.942 %			



Peak Integration Report

Sample Name:	RINSE	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	26-Jun-2025 / 14:00	Run Time:	10.00

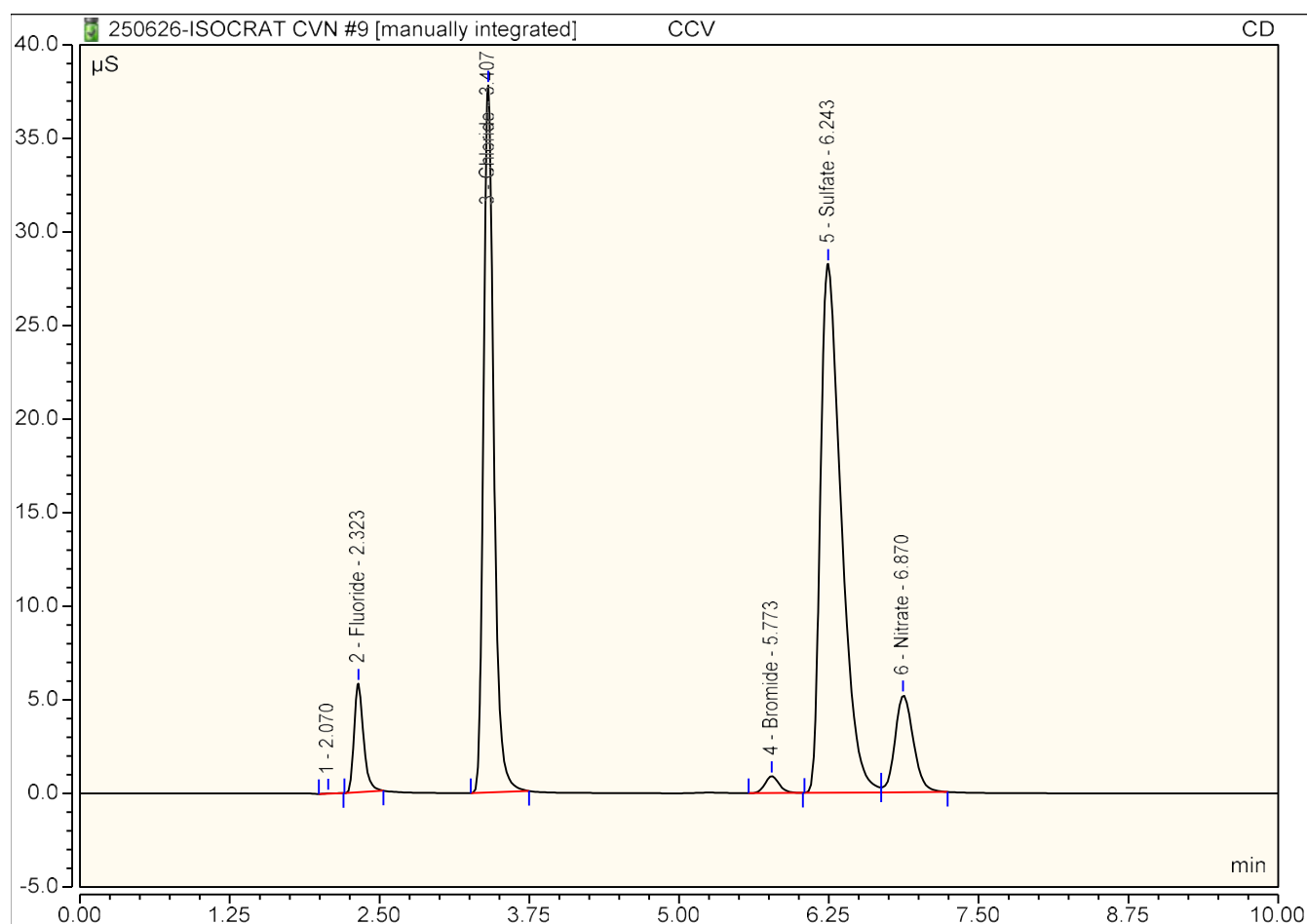
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
1	2.32	Fluoride	BMB	0.007	0.016	0.0393
2	3.42	Chloride	BMB	0.012	0.119	0.1272
3	6.33	Sulfate	BMB	0.006	0.035	0.7192
4	6.90	Nitrate	BMB	0.002	0.010	0.0293
TOTAL:				0.03	0.18	0.91



Peak Integration Report

Sample Name:	CCV	Inj. Vol.:	25.00
Injection Type:	Check Standard	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	26-Jun-2025 / 14:12	Run Time:	10.00

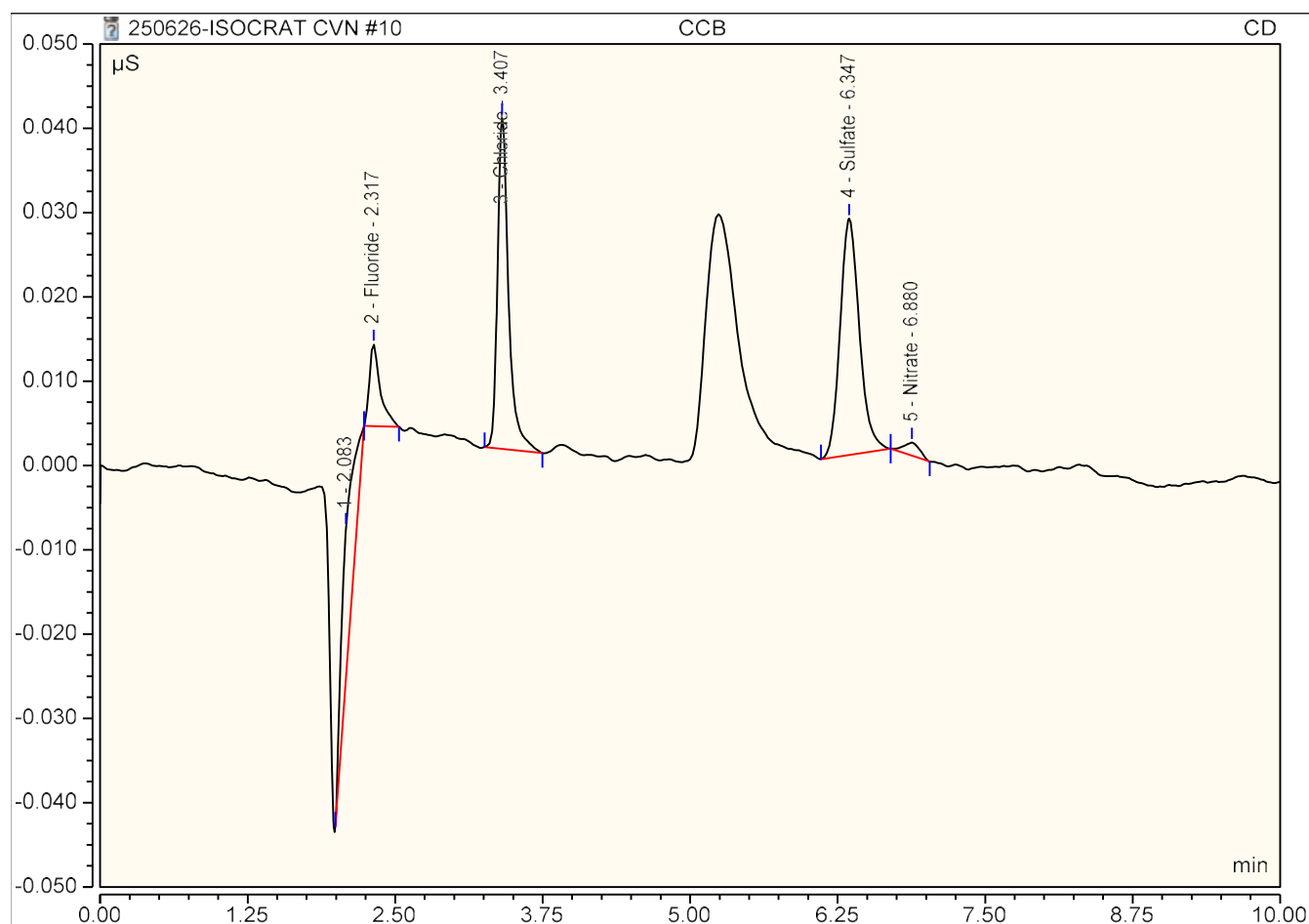
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.32	Fluoride	BMB	0.527	5.809	0.9765
3	3.41	Chloride	BMB	3.786	37.772	9.8990
4	5.77	Bromide	BMB	0.125	0.908	0.9661
5	6.24	Sulfate	BM *	5.690	28.252	19.4599
6	6.87	Nitrate	MB*	0.925	5.183	0.9984
TOTAL:				11.05	77.92	32.30



Peak Integration Report

Sample Name:	CCB	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	26-Jun-2025 / 14:24	Run Time:	10.00

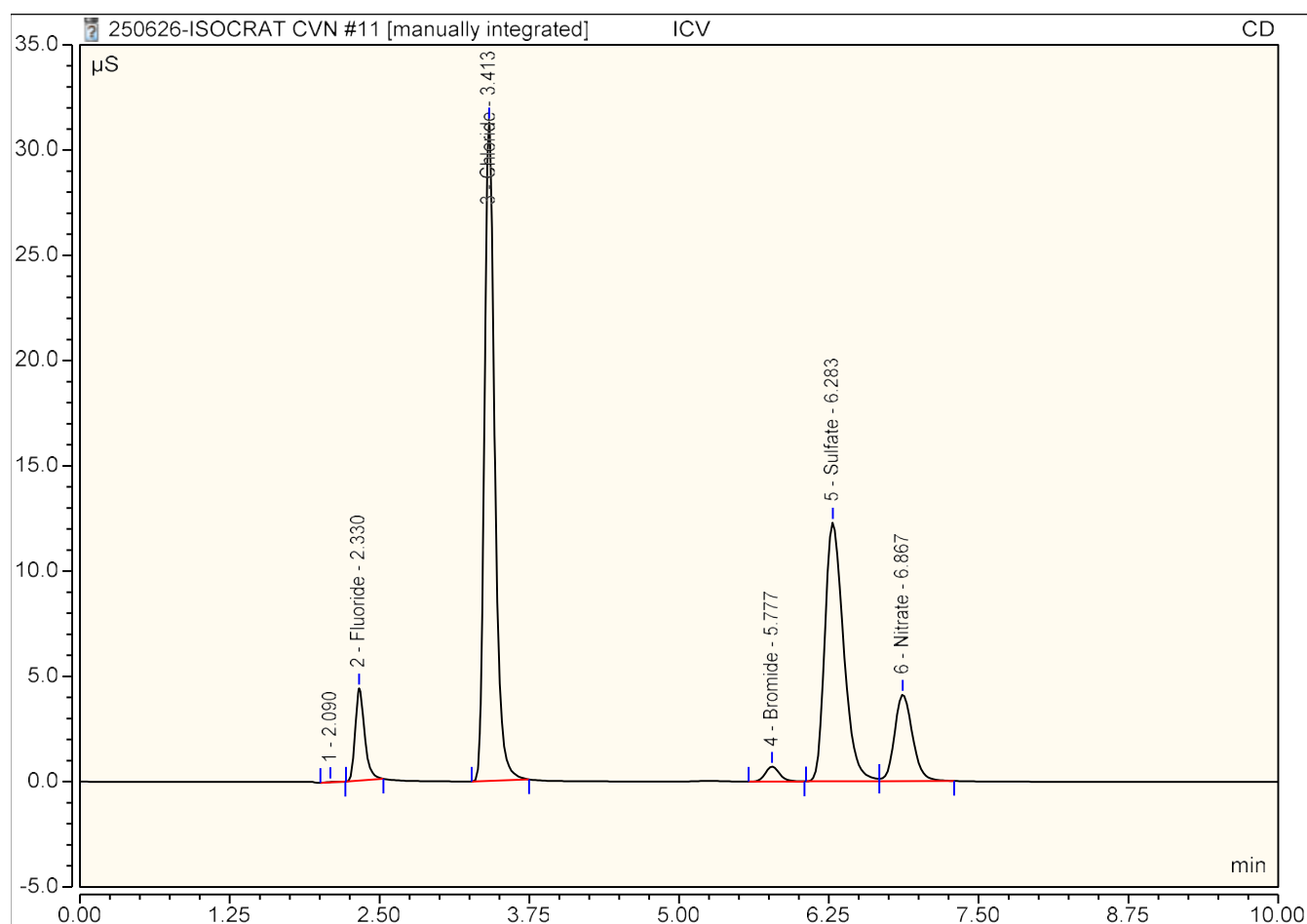
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.32	Fluoride	BMB	0.001	0.010	0.0291
3	3.41	Chloride	BMB	0.004	0.039	0.1064
4	6.35	Sulfate	BMB	0.005	0.028	0.7153
5	6.88	Nitrate	BMB	0.000	0.002	0.0271
TOTAL:				0.01	0.08	0.88



Peak Integration Report

Sample Name:	ICV	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	26-Jun-2025 / 14:36	Run Time:	10.00

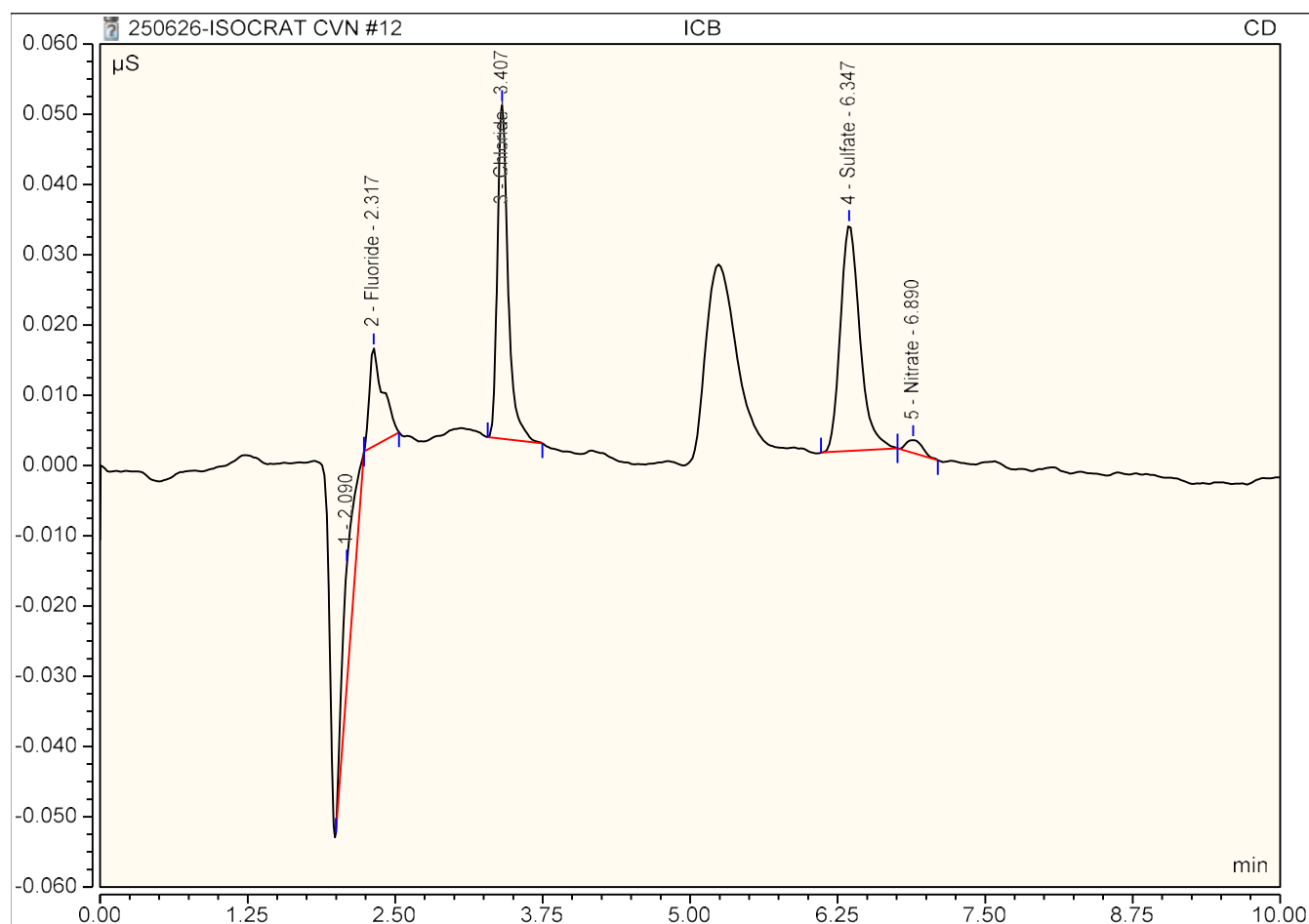
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.33	Fluoride	BMB	0.397	4.389	0.7436
3	3.41	Chloride	BMB	3.125	31.285	8.1895
4	5.78	Bromide	BMB	0.098	0.713	0.7676
5	6.28	Sulfate	BM *	2.229	12.292	8.0481
6	6.87	Nitrate	MB*	0.719	4.118	0.7817
TOTAL:				6.57	52.80	18.53



Peak Integration Report

Sample Name:	ICB	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	26-Jun-2025 / 14:48	Run Time:	10.00

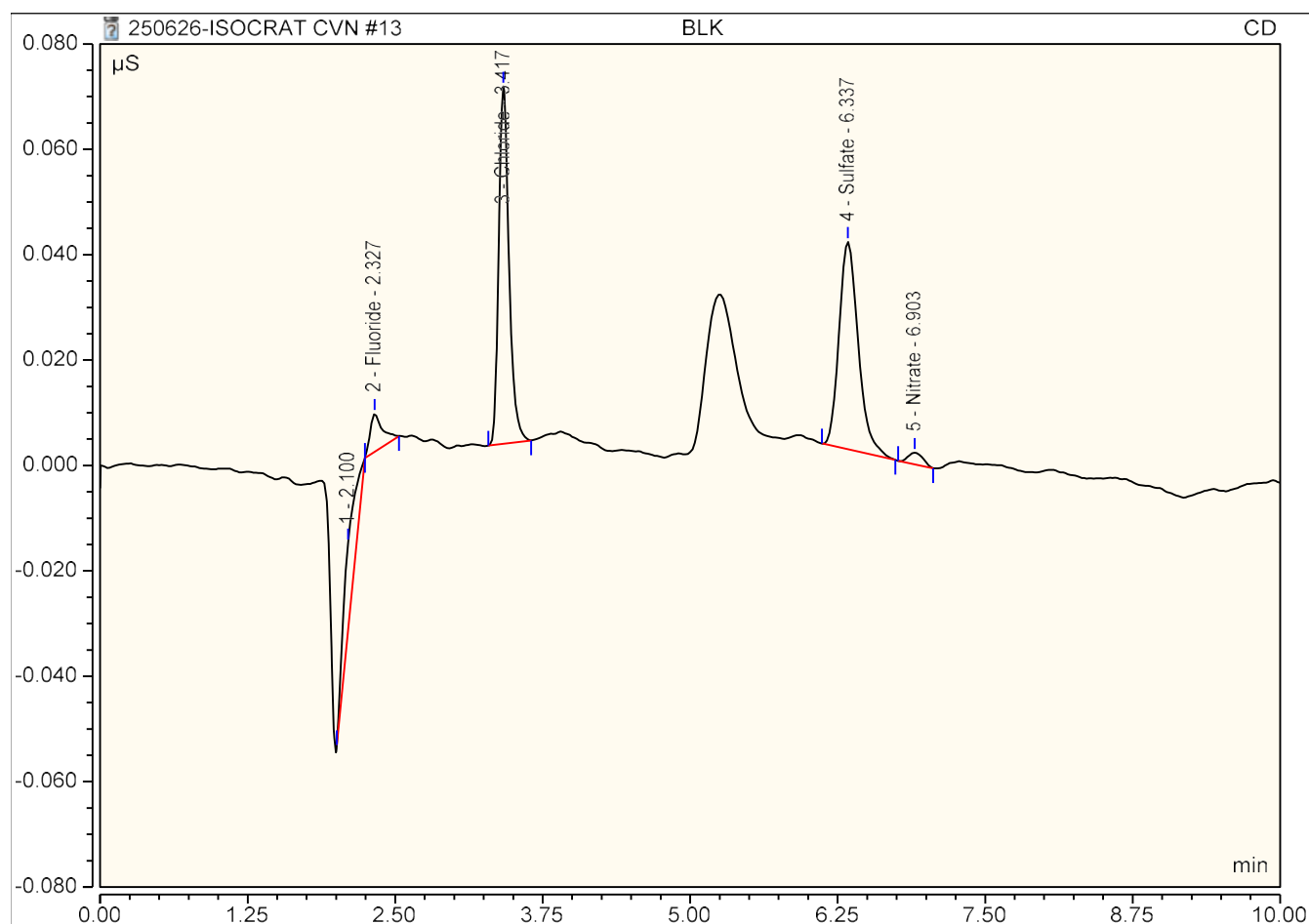
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.32	Fluoride	BMB	0.002	0.014	0.0306
3	3.41	Chloride	BMB	0.005	0.048	0.1082
4	6.35	Sulfate	BMB	0.006	0.032	0.7182
5	6.89	Nitrate	BMB	0.000	0.002	0.0272
TOTAL:				0.01	0.10	0.88



Peak Integration Report

Sample Name:	BLK	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	26-Jun-2025 / 15:00	Run Time:	10.00

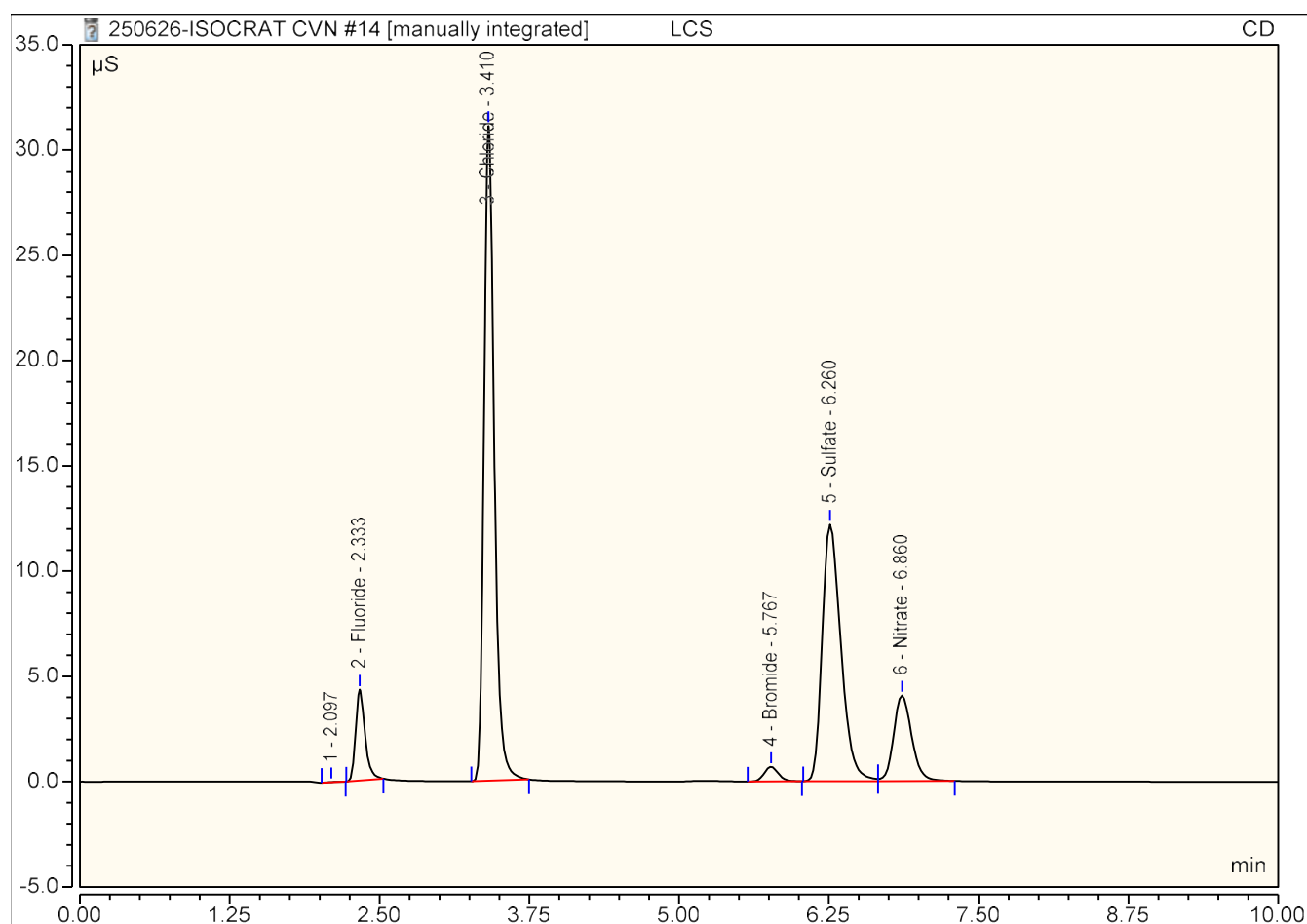
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.33	Fluoride	BMB	0.001	0.007	0.0288
3	3.42	Chloride	BMB	0.007	0.068	0.1130
4	6.34	Sulfate	BMB	0.007	0.039	0.7223
5	6.90	Nitrate	BMB	0.000	0.002	0.0272
TOTAL:				0.02	0.12	0.89



Peak Integration Report

Sample Name:	LCS	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	26-Jun-2025 / 15:12	Run Time:	10.00

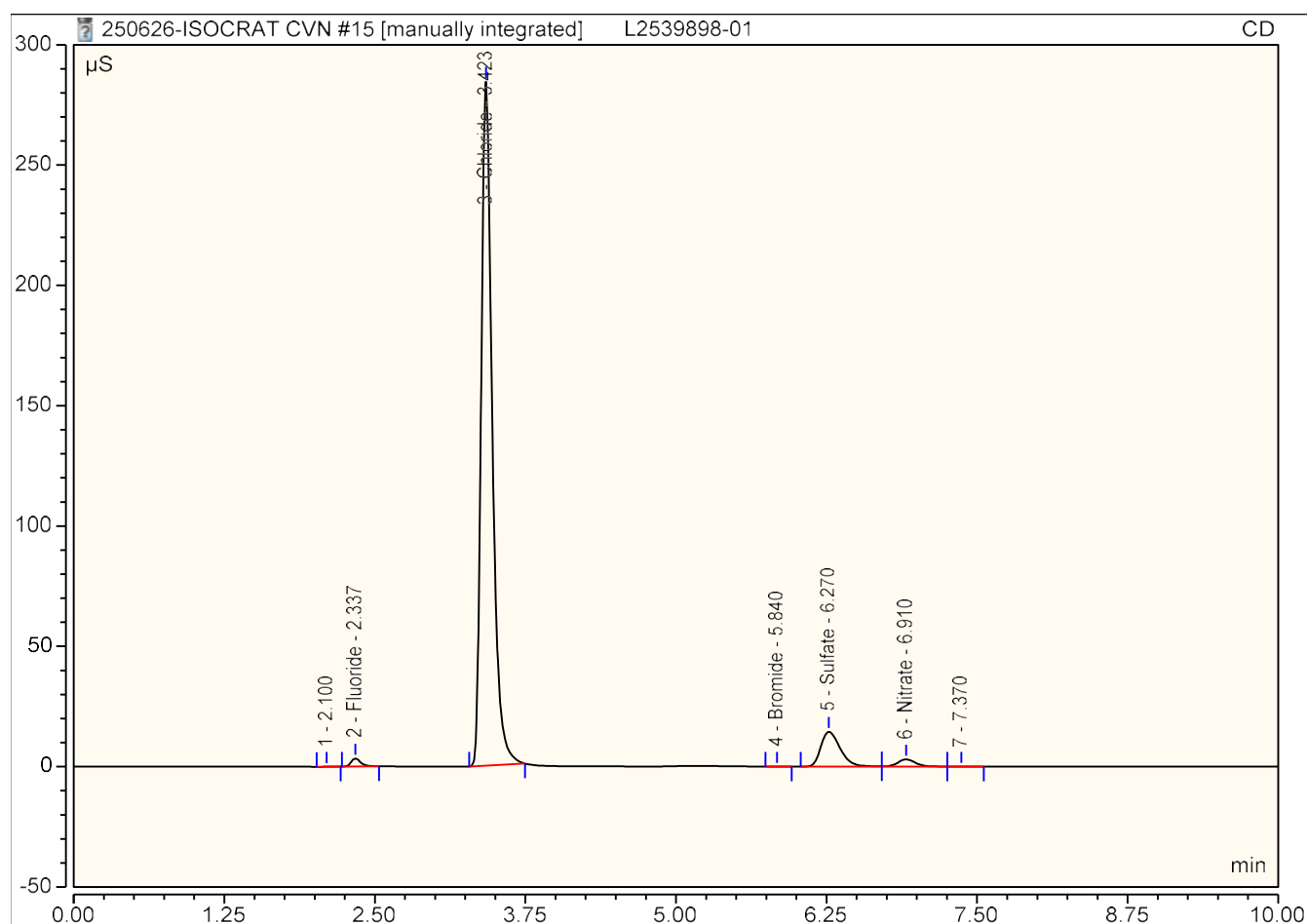
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.33	Fluoride	BMB	0.390	4.320	0.7311
3	3.41	Chloride	BMB	3.093	31.103	8.1053
4	5.77	Bromide	BMB	0.096	0.696	0.7525
5	6.26	Sulfate	BM *	2.210	12.194	7.9863
6	6.86	Nitrate	MB*	0.709	4.071	0.7718
TOTAL:				6.50	52.38	18.35



Peak Integration Report

Sample Name:	L2539898-01	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	26-Jun-2025 / 15:24	Run Time:	10.00

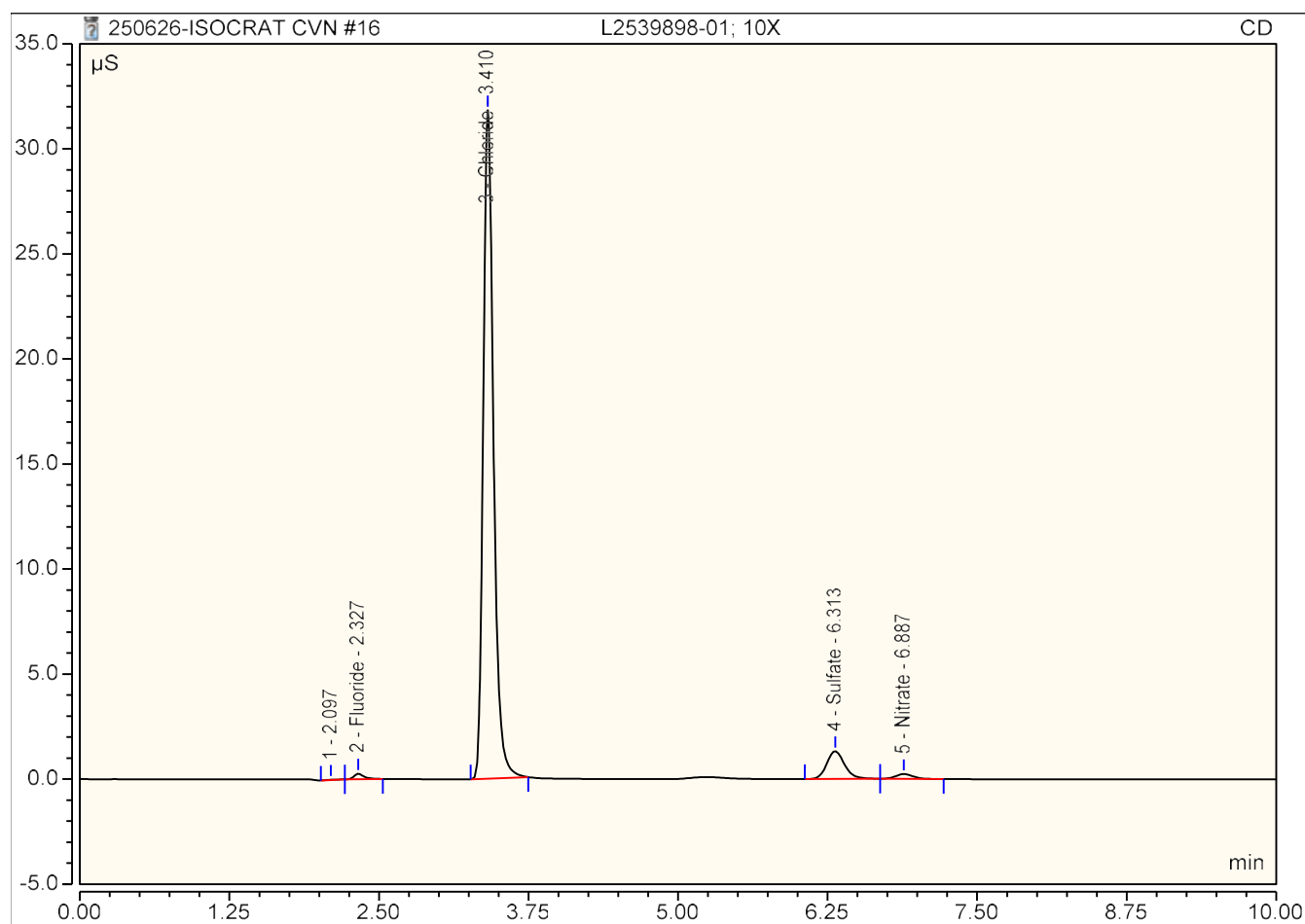
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.34	Fluoride	BMB	0.315	3.409	0.5957
3	3.42	Chloride	BMB	30.236	284.312	78.3992
4	5.84	Bromide	BMB	0.000	0.002	0.0385
5	6.27	Sulfate	BM *	2.684	14.558	9.5501
6	6.91	Nitrate	MB*	0.500	2.972	0.5526
TOTAL:				33.74	305.25	89.14



Peak Integration Report

Sample Name:	L2539898-01; 10X	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	10.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	26-Jun-2025 / 15:37	Run Time:	10.00

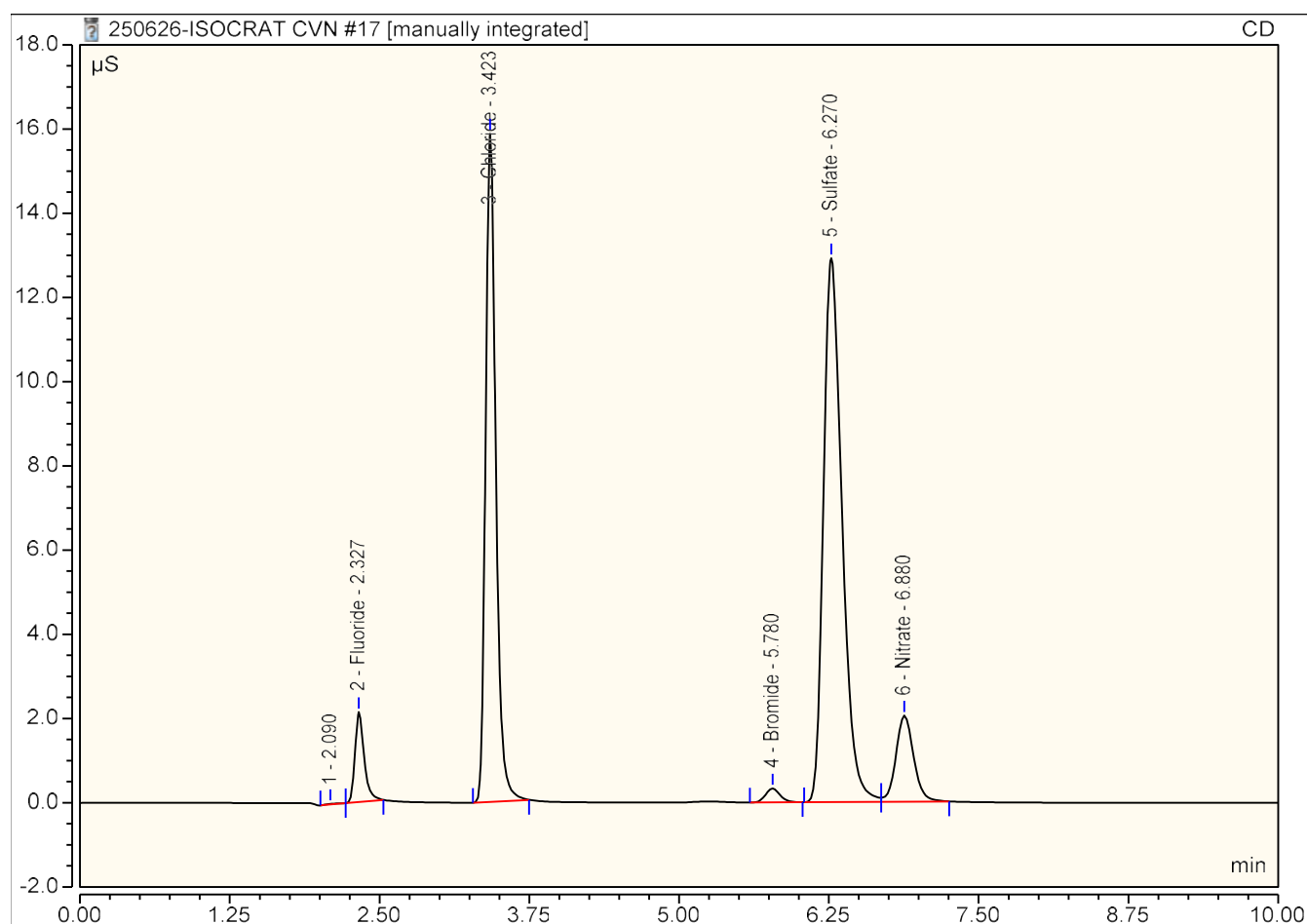
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.33	Fluoride	BMB	0.025	0.271	0.7314
3	3.41	Chloride	BMB	3.175	31.809	83.1789
4	6.31	Sulfate	BMB	0.227	1.324	14.4691
5	6.89	Nitrate	BMB	0.038	0.227	0.6667
TOTAL:				3.47	33.63	99.05



Peak Integration Report

Sample Name:	L2539898-02 MS	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	26-Jun-2025 / 15:49	Run Time:	10.00

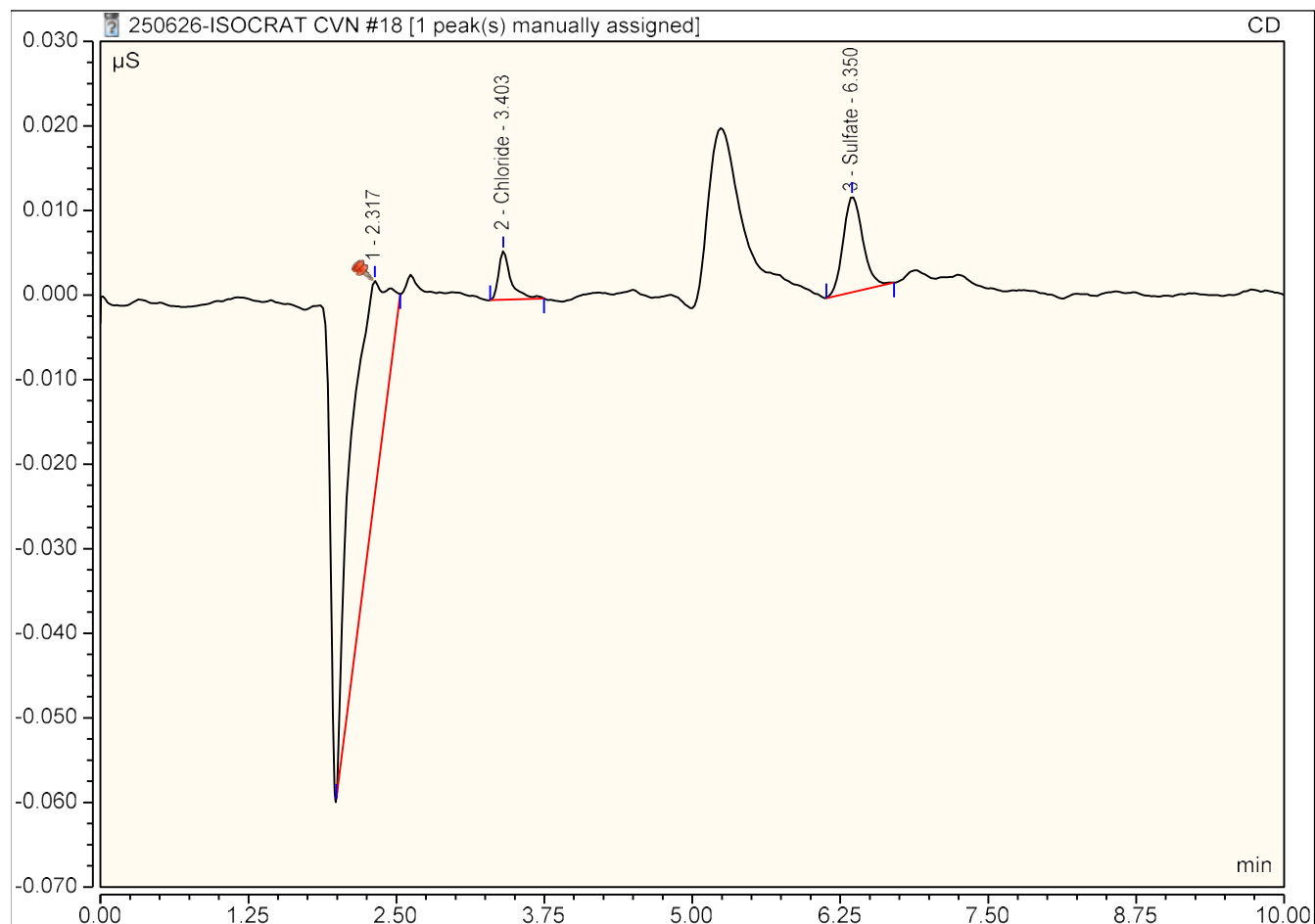
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.33	Fluoride	BMB	0.189	2.134	0.3678
3	3.42	Chloride	BMB	1.569	15.872	4.1598
4	5.78	Bromide	BMB	0.047	0.333	0.3826
5	6.27	Sulfate	BM *	2.325	12.914	8.3634
6	6.88	Nitrate	MB*	0.351	2.044	0.3959
TOTAL:				4.48	33.30	13.67



Peak Integration Report

Sample Name:	L2539898-02 DUP	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	26-Jun-2025 / 16:01	Run Time:	10.00

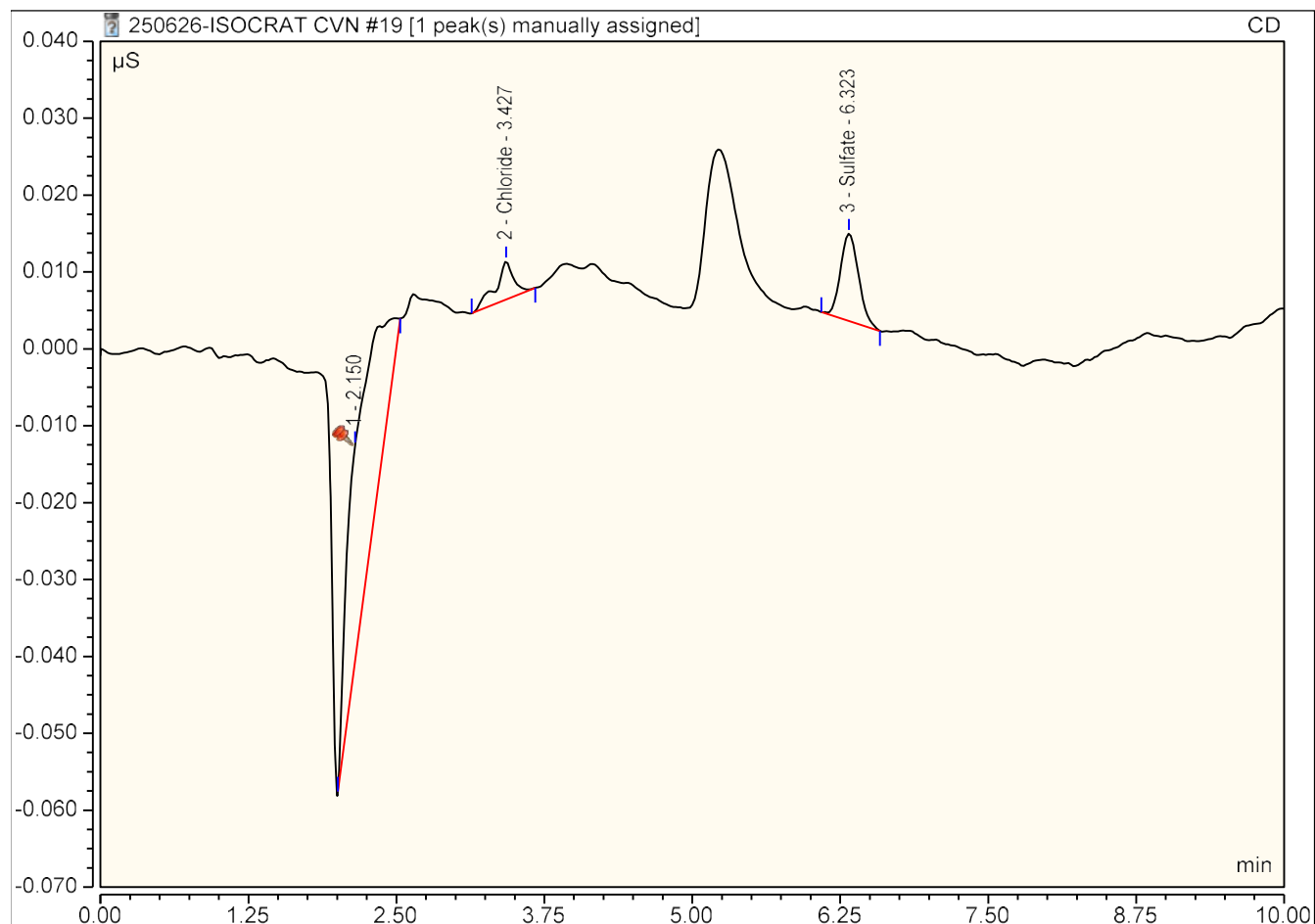
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	3.40	Chloride	BMB	0.001	0.006	0.0972
3	6.35	Sulfate	BMB	0.002	0.011	0.7050
TOTAL:				0.00	0.02	0.80



Peak Integration Report

Sample Name:	L2539898-02	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	26-Jun-2025 / 16:13	Run Time:	10.00

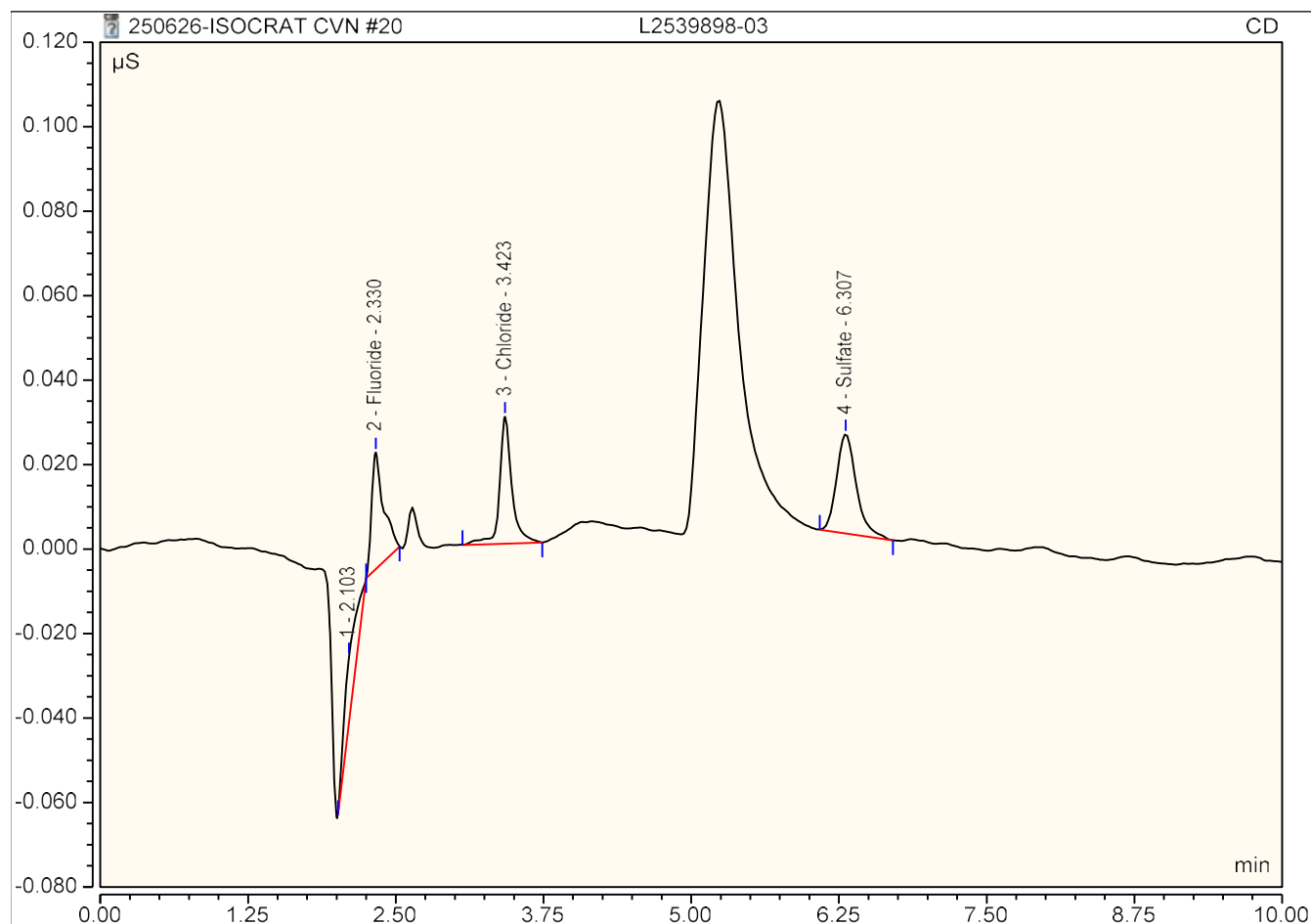
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	3.43	Chloride	BMB	0.001	0.005	0.0976
3	6.32	Sulfate	BMB	0.002	0.011	0.7045
TOTAL:				0.00	0.02	0.80



Peak Integration Report

Sample Name:	L2539898-03	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	26-Jun-2025 / 16:25	Run Time:	10.00

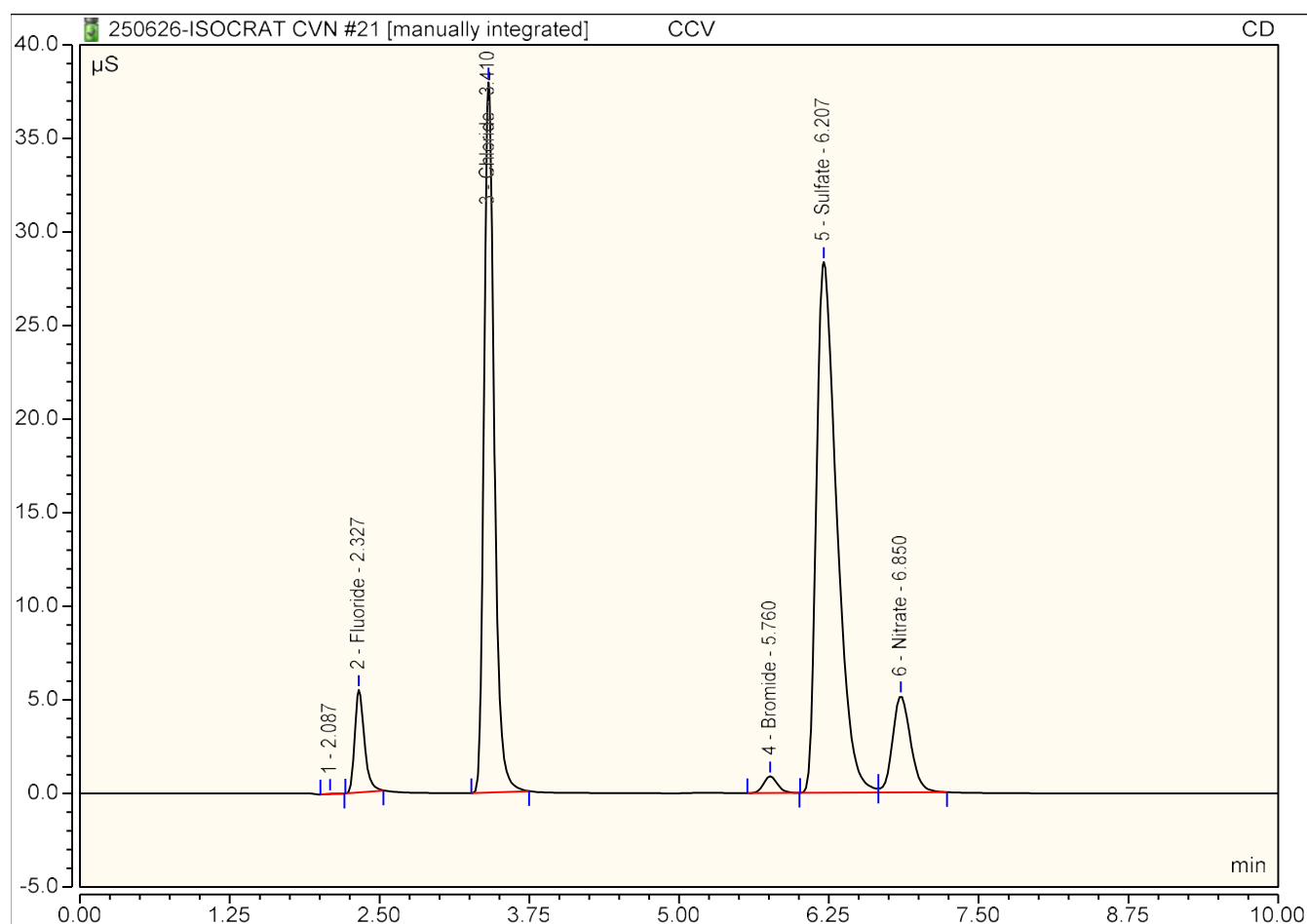
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.33	Fluoride	BMB	0.003	0.028	0.0331
3	3.42	Chloride	BMB	0.004	0.030	0.1047
4	6.31	Sulfate	BMB	0.005	0.023	0.7128
TOTAL:				0.01	0.08	0.85



Peak Integration Report

Sample Name:	CCV	Inj. Vol.:	25.00
Injection Type:	Check Standard	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	26-Jun-2025 / 16:37	Run Time:	10.00

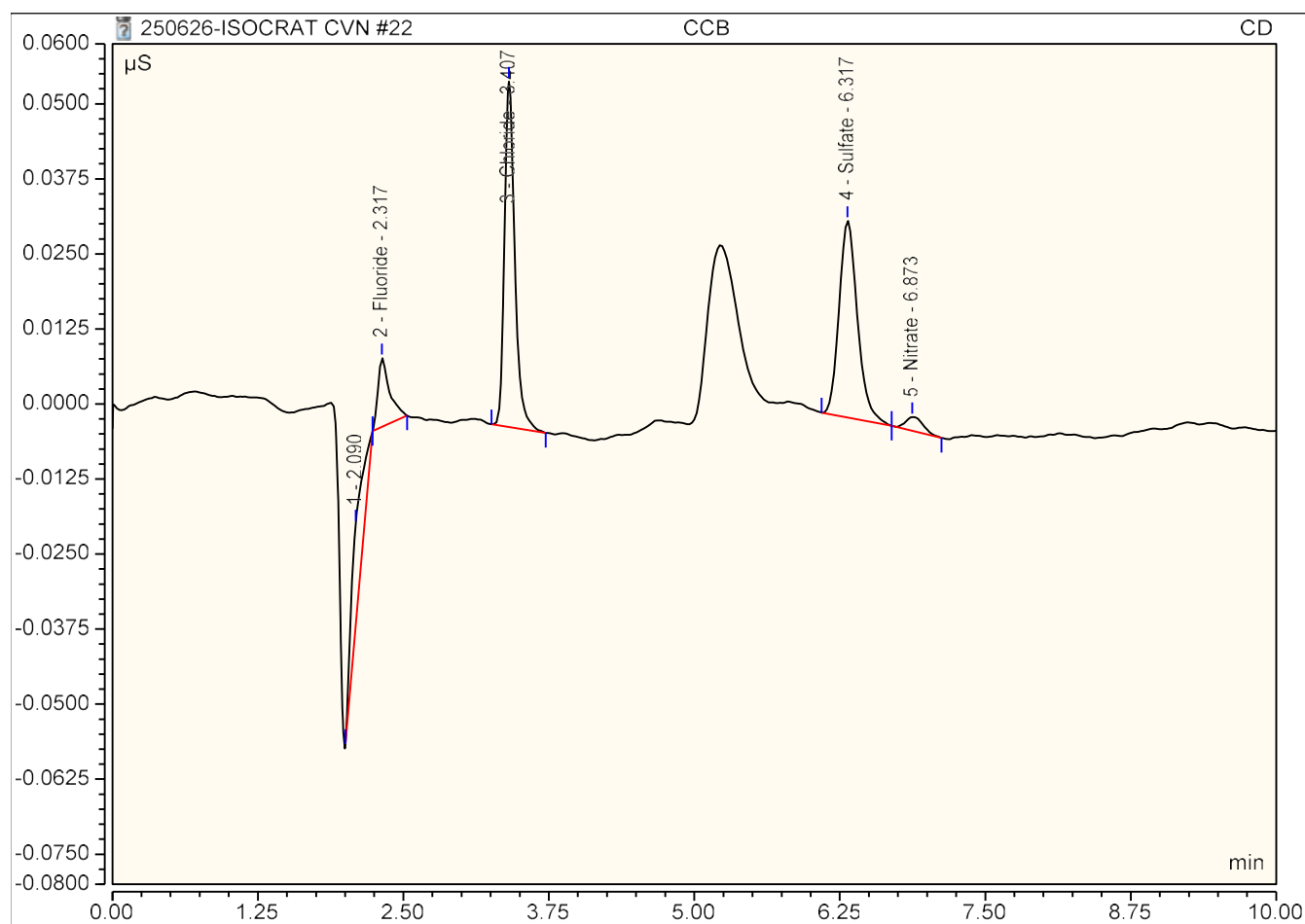
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.33	Fluoride	BMB	0.506	5.481	0.9400
3	3.41	Chloride	BMB	3.786	37.949	9.8987
4	5.76	Bromide	BMB	0.122	0.901	0.9419
5	6.21	Sulfate	BM *	5.608	28.367	19.1896
6	6.85	Nitrate	MB*	0.904	5.148	0.9761
TOTAL:				10.93	77.85	31.95



Peak Integration Report

Sample Name:	CCB	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	26-Jun-2025 / 16:49	Run Time:	10.00

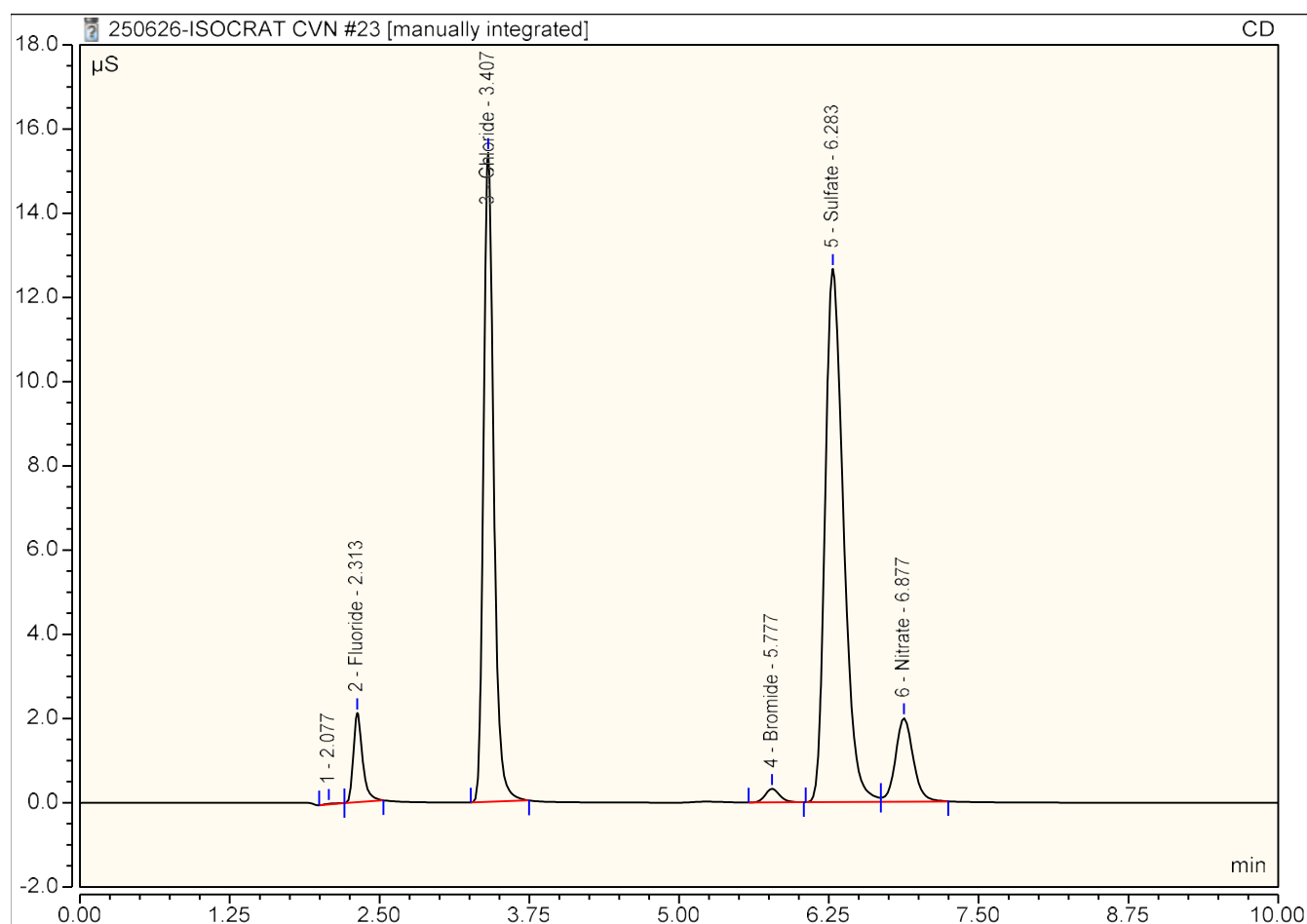
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.32	Fluoride	BMB	0.001	0.011	0.0297
3	3.41	Chloride	BMB	0.006	0.058	0.1106
4	6.32	Sulfate	BMB	0.006	0.033	0.7176
5	6.87	Nitrate	BMB	0.000	0.002	0.0273
TOTAL:				0.01	0.10	0.89



Peak Integration Report

Sample Name:	L2539898-04 MS	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	26-Jun-2025 / 17:01	Run Time:	10.00

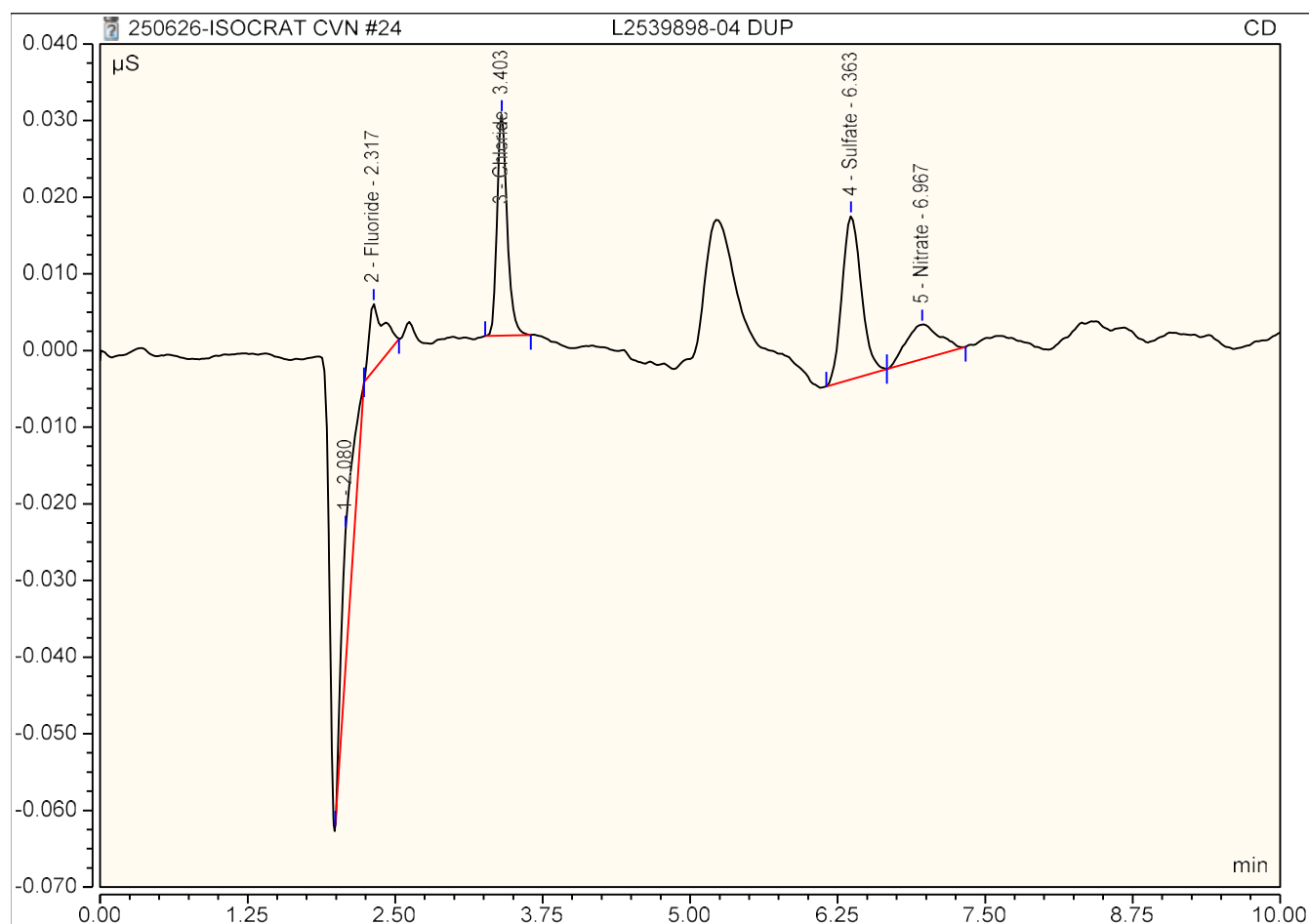
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.31	Fluoride	BMB	0.186	2.115	0.3623
3	3.41	Chloride	BMB	1.530	15.414	4.0576
4	5.78	Bromide	BMB	0.046	0.325	0.3759
5	6.28	Sulfate	BM *	2.254	12.664	8.1304
6	6.88	Nitrate	M *	0.343	1.991	0.3874
TOTAL:				4.36	32.51	13.31



Peak Integration Report

Sample Name:	L2539898-04 DUP	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	26-Jun-2025 / 17:13	Run Time:	10.00

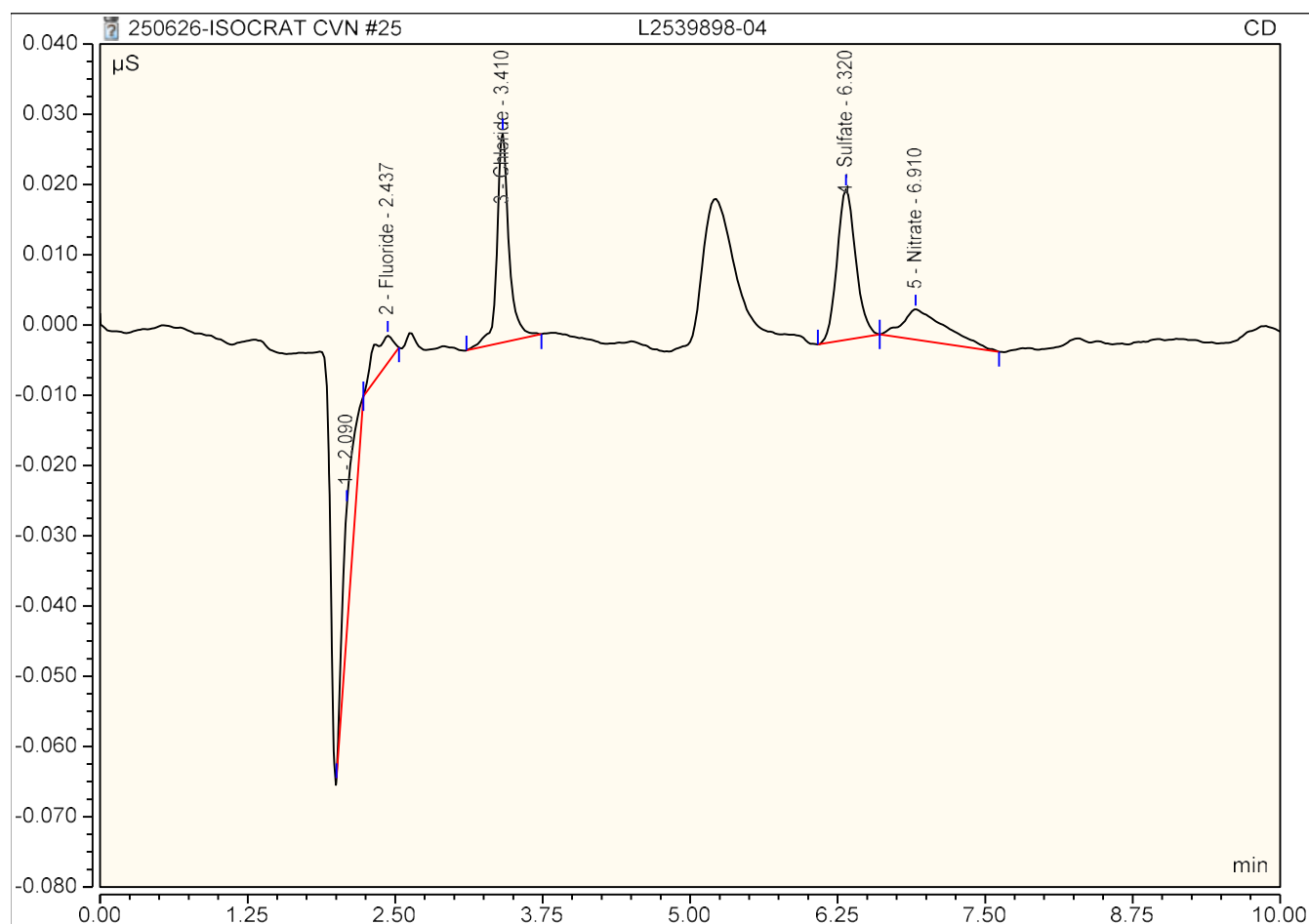
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.32	Fluoride	BMB	0.001	0.009	0.0295
3	3.40	Chloride	BMB	0.003	0.029	0.1028
4	6.36	Sulfate	BMB	0.004	0.021	0.7111
5	6.97	Nitrate	BMB	0.001	0.005	0.0284
TOTAL:				0.01	0.06	0.87



Peak Integration Report

Sample Name:	L2539898-04	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	26-Jun-2025 / 17:25	Run Time:	10.00

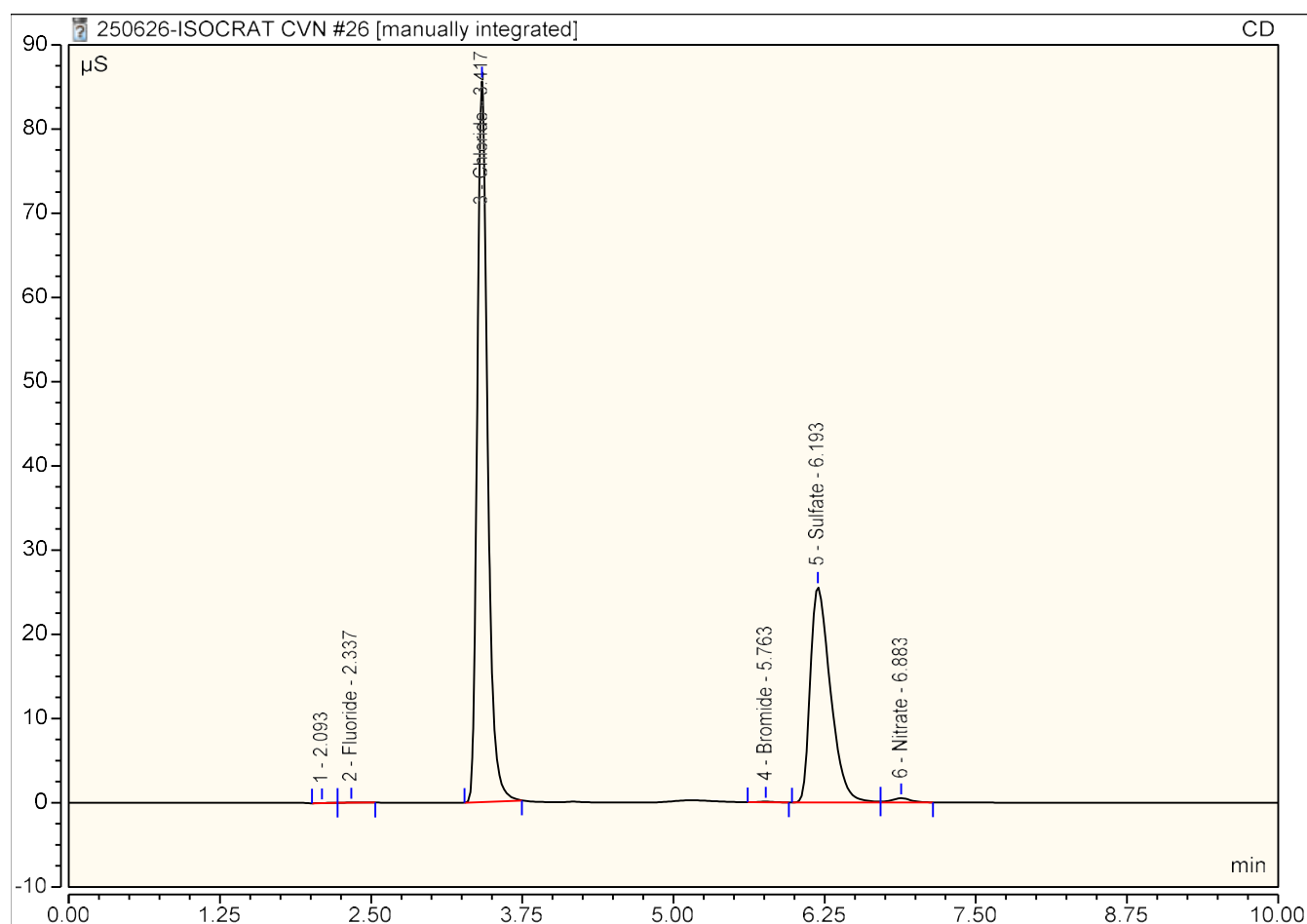
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.44	Fluoride	BMB	0.001	0.004	0.0289
3	3.41	Chloride	BMB	0.004	0.030	0.1044
4	6.32	Sulfate	BMB	0.004	0.021	0.7108
5	6.91	Nitrate	BMB	0.002	0.004	0.0289
TOTAL:				0.01	0.06	0.87



Peak Integration Report

Sample Name:	L2539970-05 CL SO4 NO3; 50X	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	50.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	26-Jun-2025 / 17:37	Run Time:	10.00

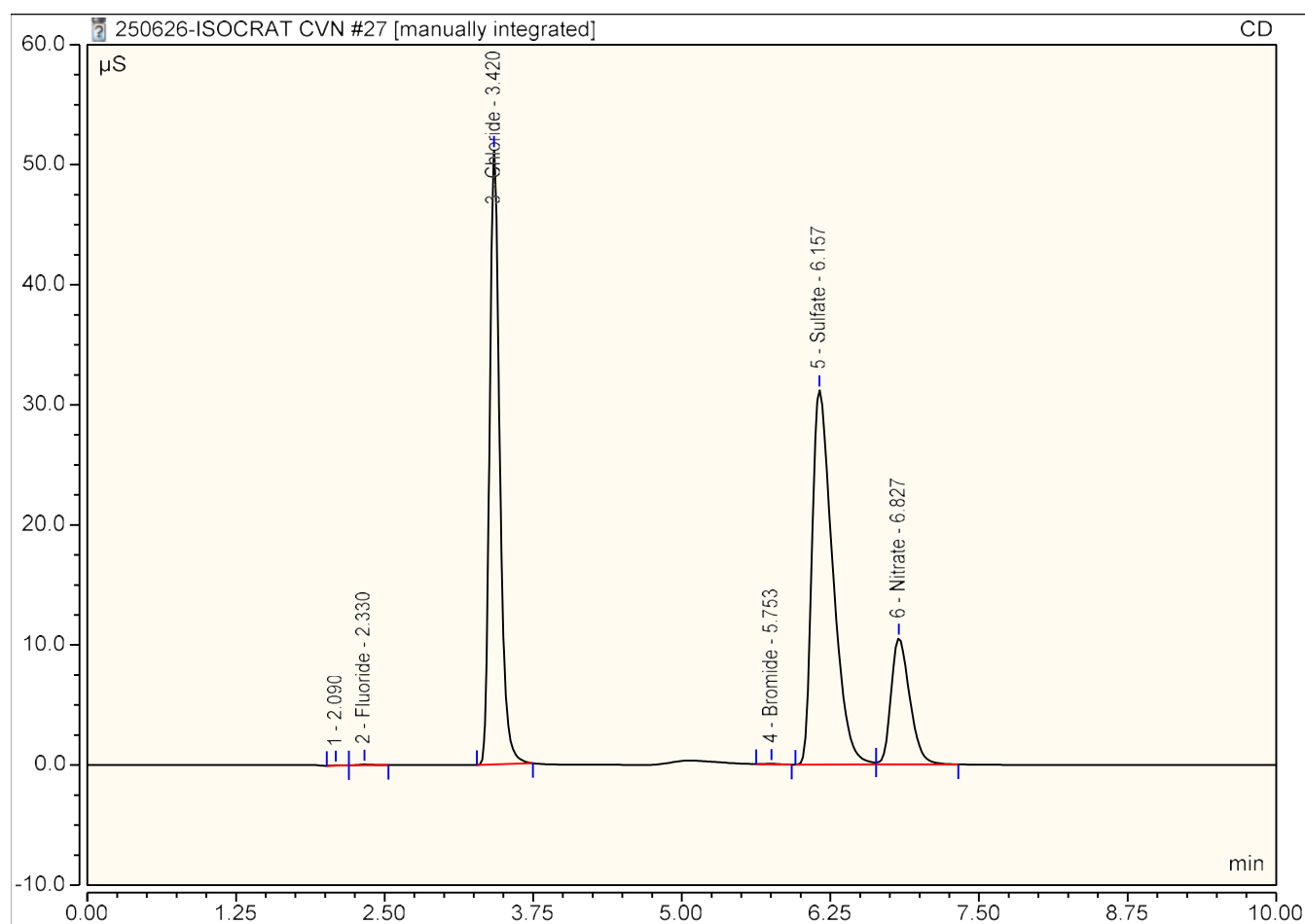
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.34	Fluoride	BMB	0.004	0.028	1.7141
3	3.42	Chloride	BMB	8.607	85.564	1119.2585
4	5.76	Bromide	BMB	0.013	0.096	6.6116
5	6.19	Sulfate	BM *	4.949	25.604	850.8268
6	6.88	Nitrate	MB*	0.090	0.502	6.0625
TOTAL:				13.66	111.79	1984.47



Peak Integration Report

Sample Name:	L2538382-01 BR	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	26-Jun-2025 / 17:49	Run Time:	10.00

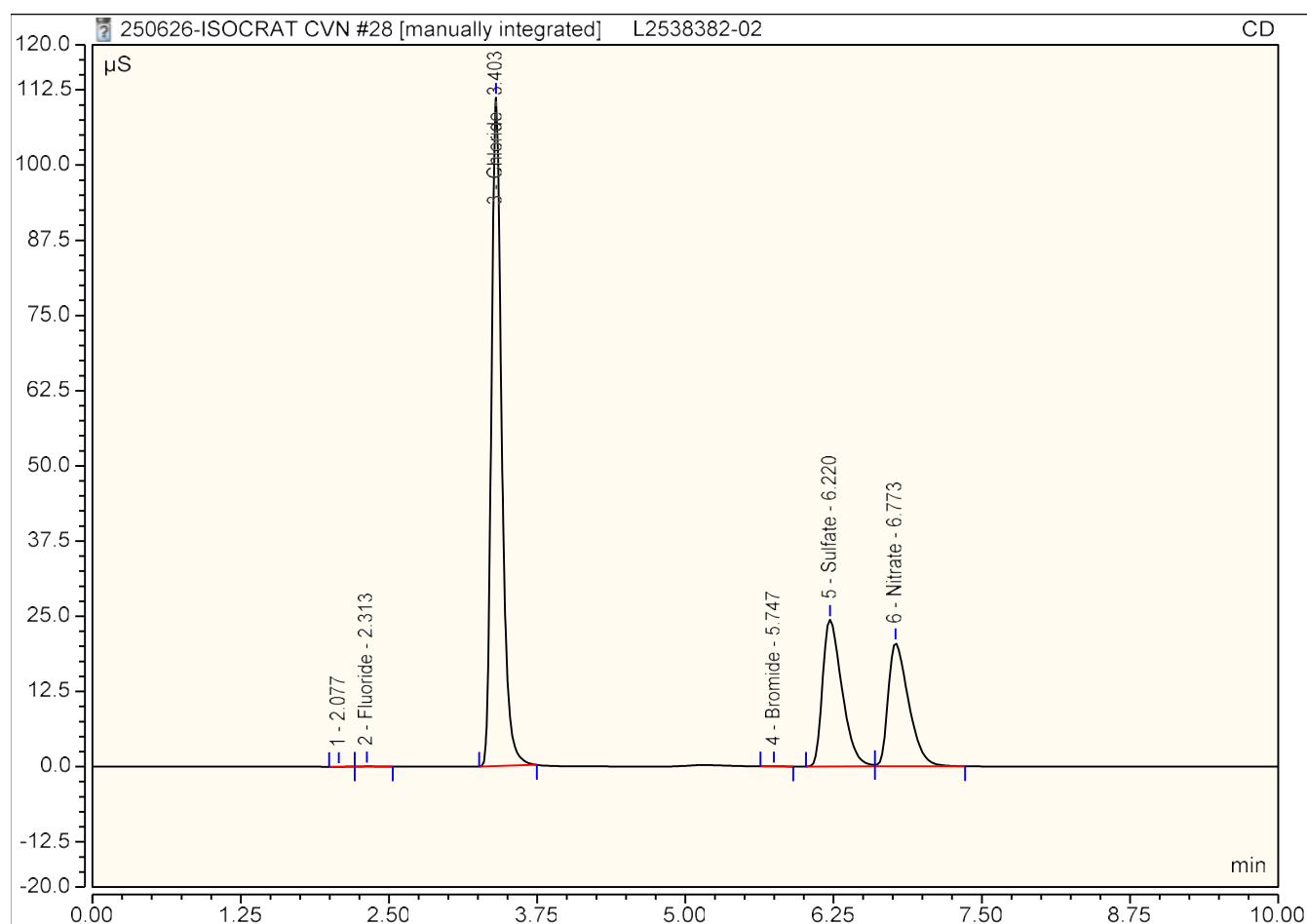
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.33	Fluoride	BMB	0.007	0.066	0.0401
3	3.42	Chloride	BMB	5.086	51.120	13.2672
4	5.75	Bromide	BMB	0.005	0.041	0.0765
5	6.16	Sulfate	BM *	6.295	31.184	21.4562
6	6.83	Nitrate	MB*	1.921	10.508	2.0452
TOTAL:				13.31	92.92	36.89



Peak Integration Report

Sample Name:	L2538382-02	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	26-Jun-2025 / 18:02	Run Time:	10.00

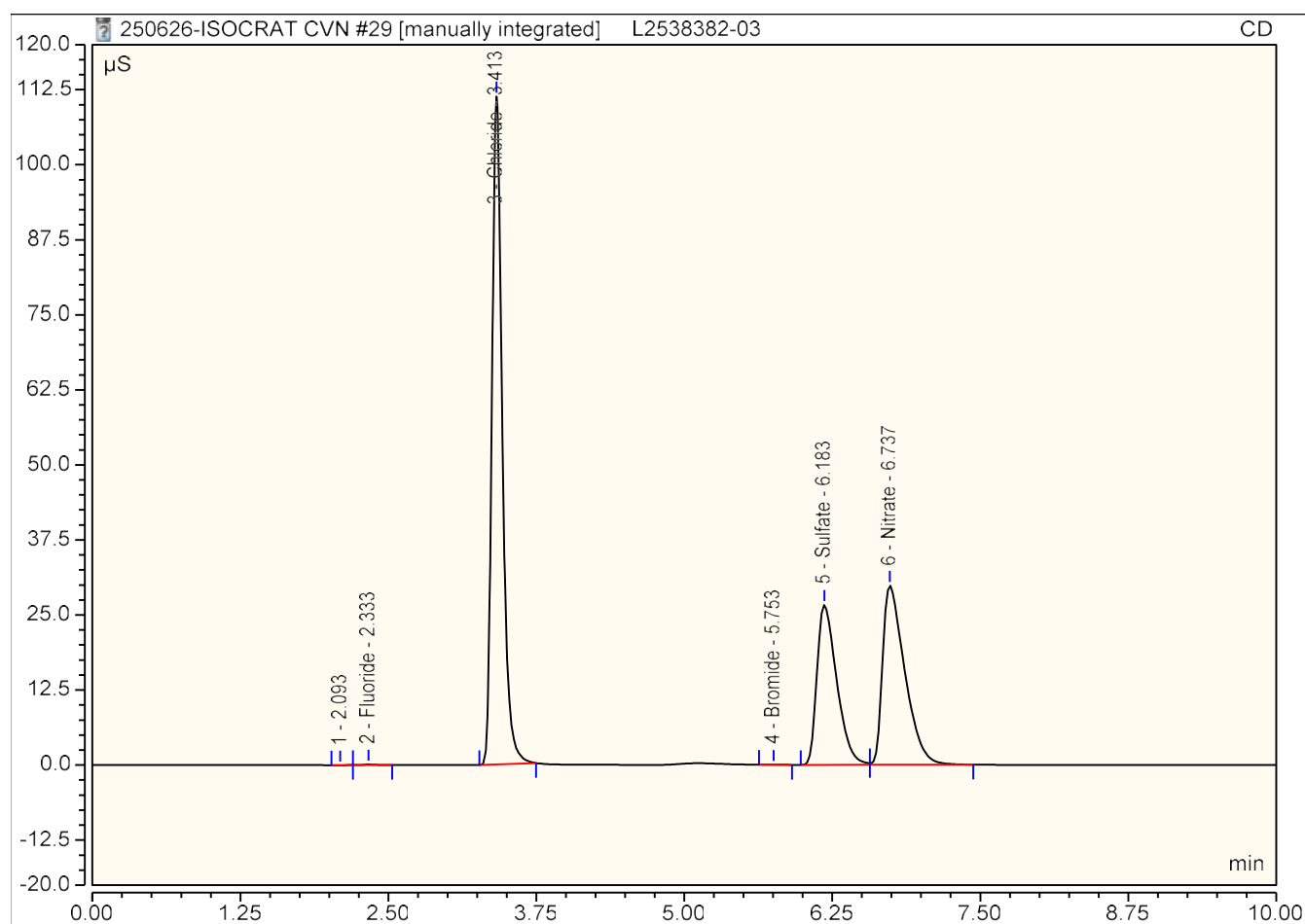
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.31	Fluoride	BMB	0.008	0.074	0.0419
3	3.40	Chloride	BMB	11.241	111.130	29.2075
4	5.75	Bromide	BMB	0.002	0.018	0.0541
5	6.22	Sulfate	BM *	4.648	24.385	16.0248
6	6.77	Nitrate	MB*	4.100	20.495	4.3337
TOTAL:				20.00	156.10	49.66



Peak Integration Report

Sample Name:	L2538382-03	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	26-Jun-2025 / 18:14	Run Time:	10.00

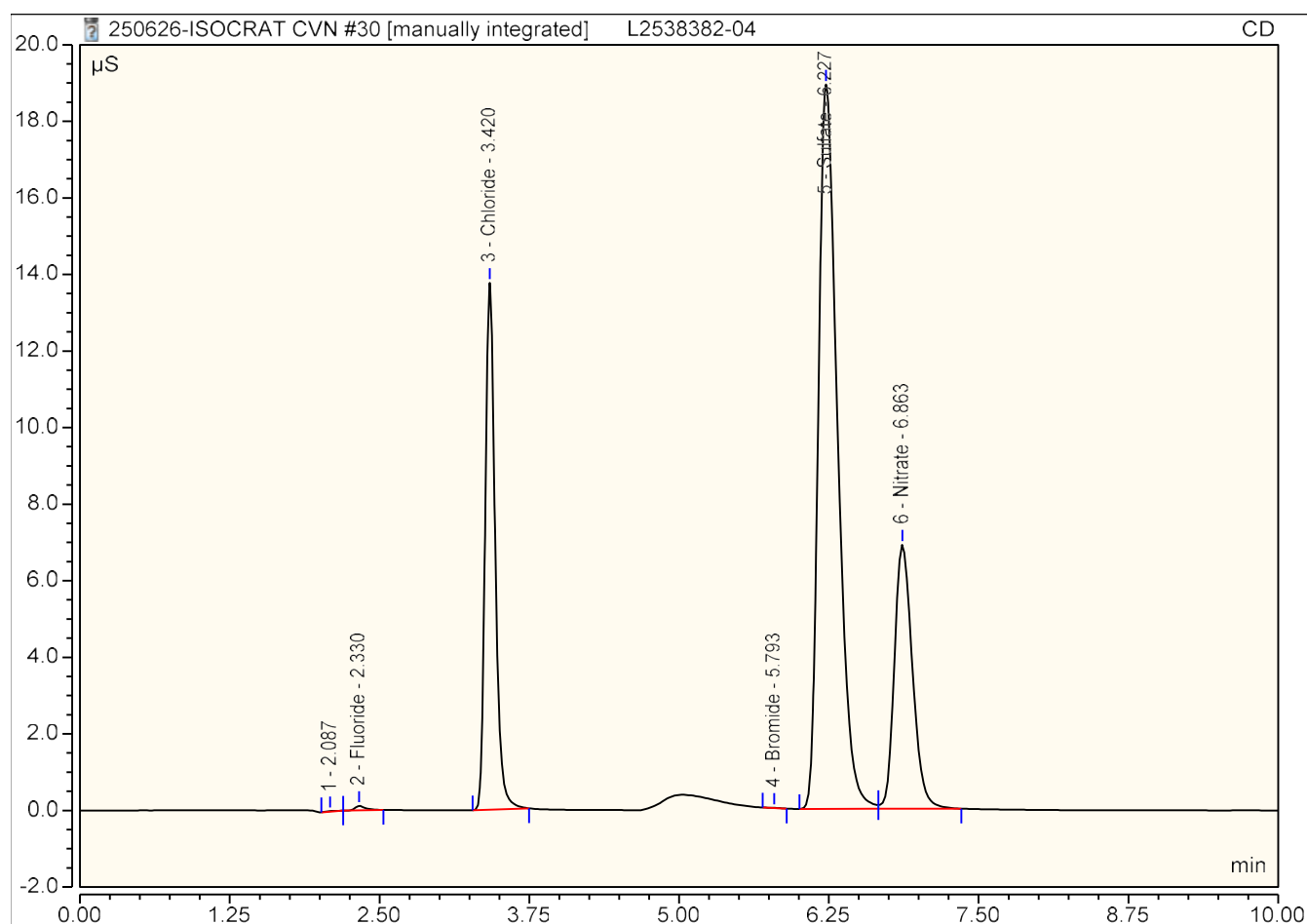
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.33	Fluoride	BMB	0.011	0.111	0.0478
3	3.41	Chloride	BMB	11.252	111.296	29.2338
4	5.75	Bromide	BMB	0.004	0.033	0.0681
5	6.18	Sulfate	BM *	5.156	26.662	17.6987
6	6.74	Nitrate	MB*	6.490	29.855	6.8446
TOTAL:				22.91	167.96	53.89



Peak Integration Report

Sample Name:	L2538382-04	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	26-Jun-2025 / 18:26	Run Time:	10.00

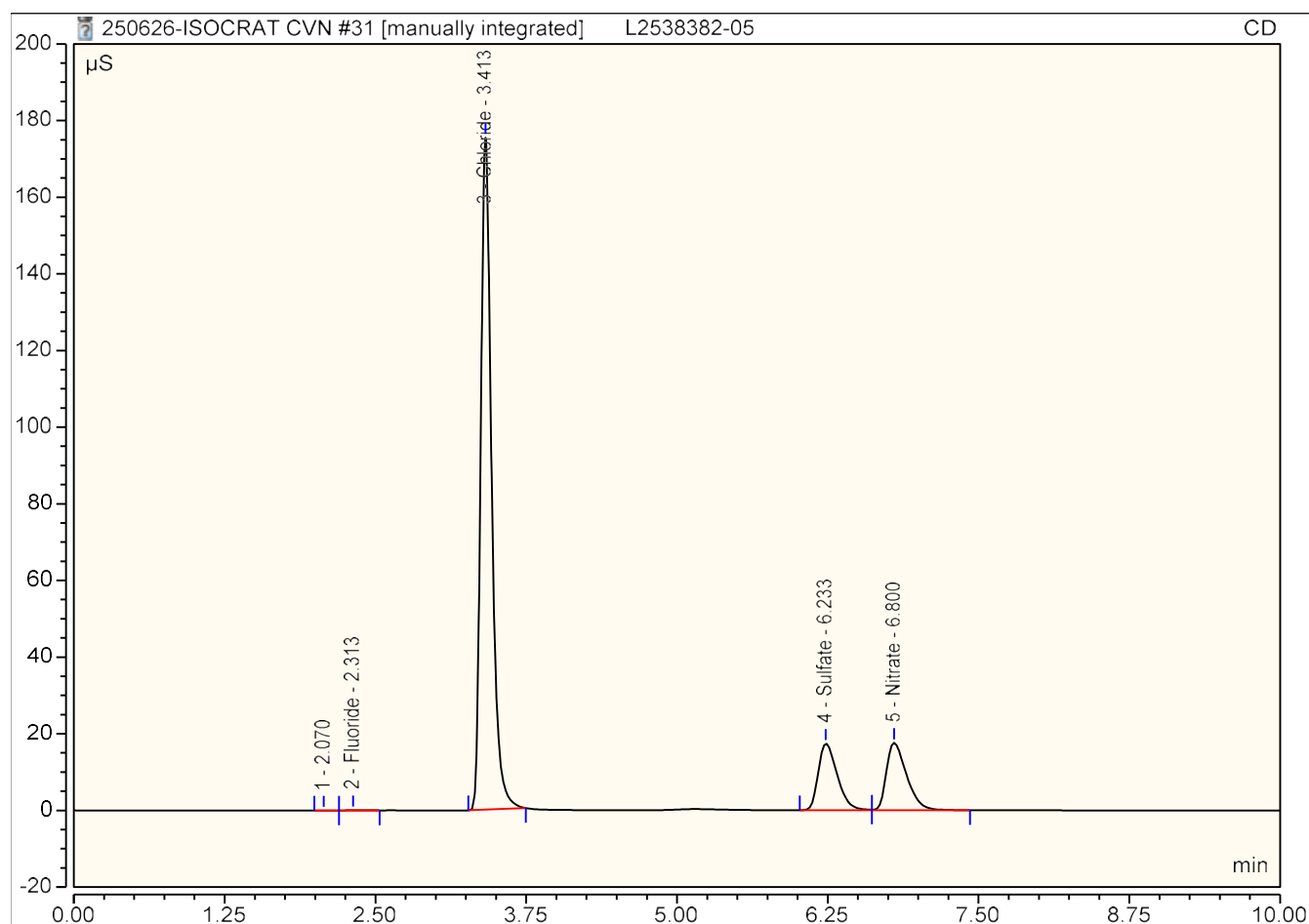
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.33	Fluoride	BMB	0.012	0.118	0.0490
3	3.42	Chloride	BMB	1.324	13.759	3.5229
4	5.79	Bromide	BMB	0.000	0.004	0.0401
5	6.23	Sulfate	BM *	3.493	18.920	12.2175
6	6.86	Nitrate	MB*	1.209	6.899	1.2971
TOTAL:				6.04	39.70	17.13



Peak Integration Report

Sample Name:	L2538382-05	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	26-Jun-2025 / 18:38	Run Time:	10.00

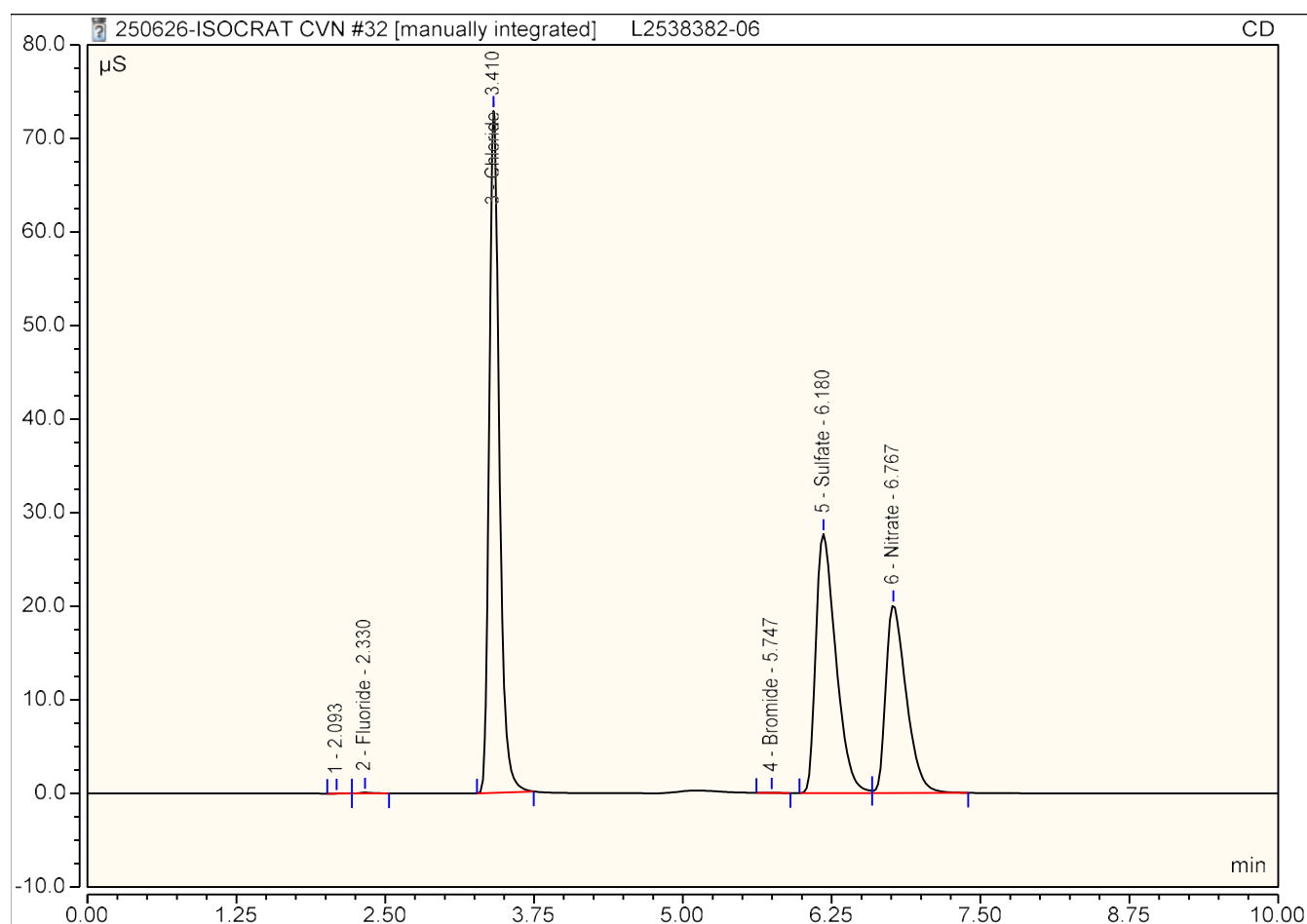
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.31	Fluoride	BMB	0.008	0.069	0.0408
3	3.41	Chloride	BMB	18.159	175.353	47.1225
4	6.23	Sulfate	BM *	3.165	17.392	11.1357
5	6.80	Nitrate	MB*	3.411	17.562	3.6105
TOTAL:				24.74	210.38	61.91



Peak Integration Report

Sample Name:	L2538382-06	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	26-Jun-2025 / 18:50	Run Time:	10.00

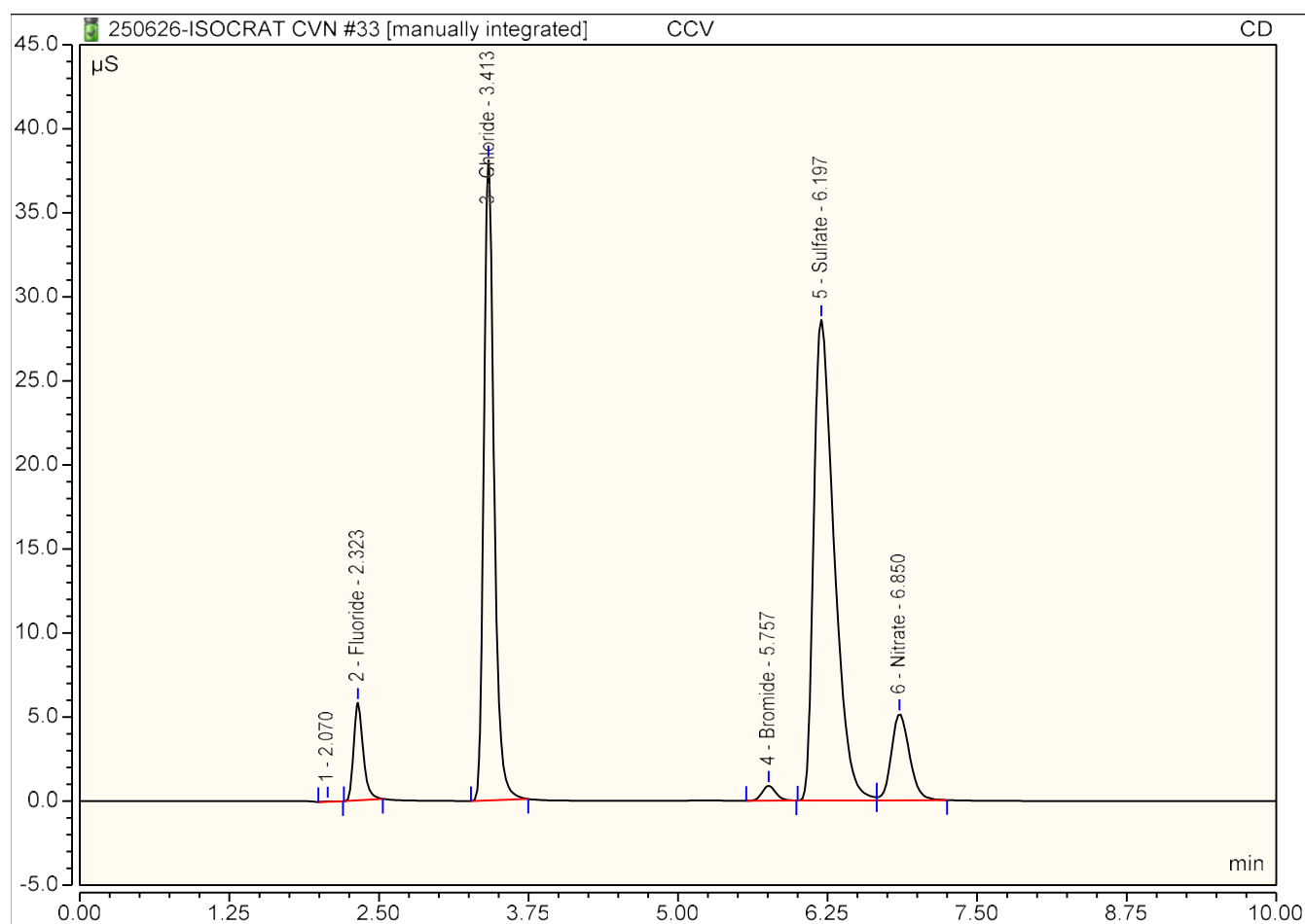
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.33	Fluoride	BMB	0.012	0.113	0.0482
3	3.41	Chloride	BMB	7.248	72.873	18.8653
4	5.75	Bromide	BMB	0.004	0.035	0.0697
5	6.18	Sulfate	BM *	5.404	27.695	18.5194
6	6.77	Nitrate	MB*	3.993	20.072	4.2214
TOTAL:				16.66	120.79	41.72



Peak Integration Report

Sample Name:	CCV	Inj. Vol.:	25.00
Injection Type:	Check Standard	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	26-Jun-2025 / 19:02	Run Time:	10.00

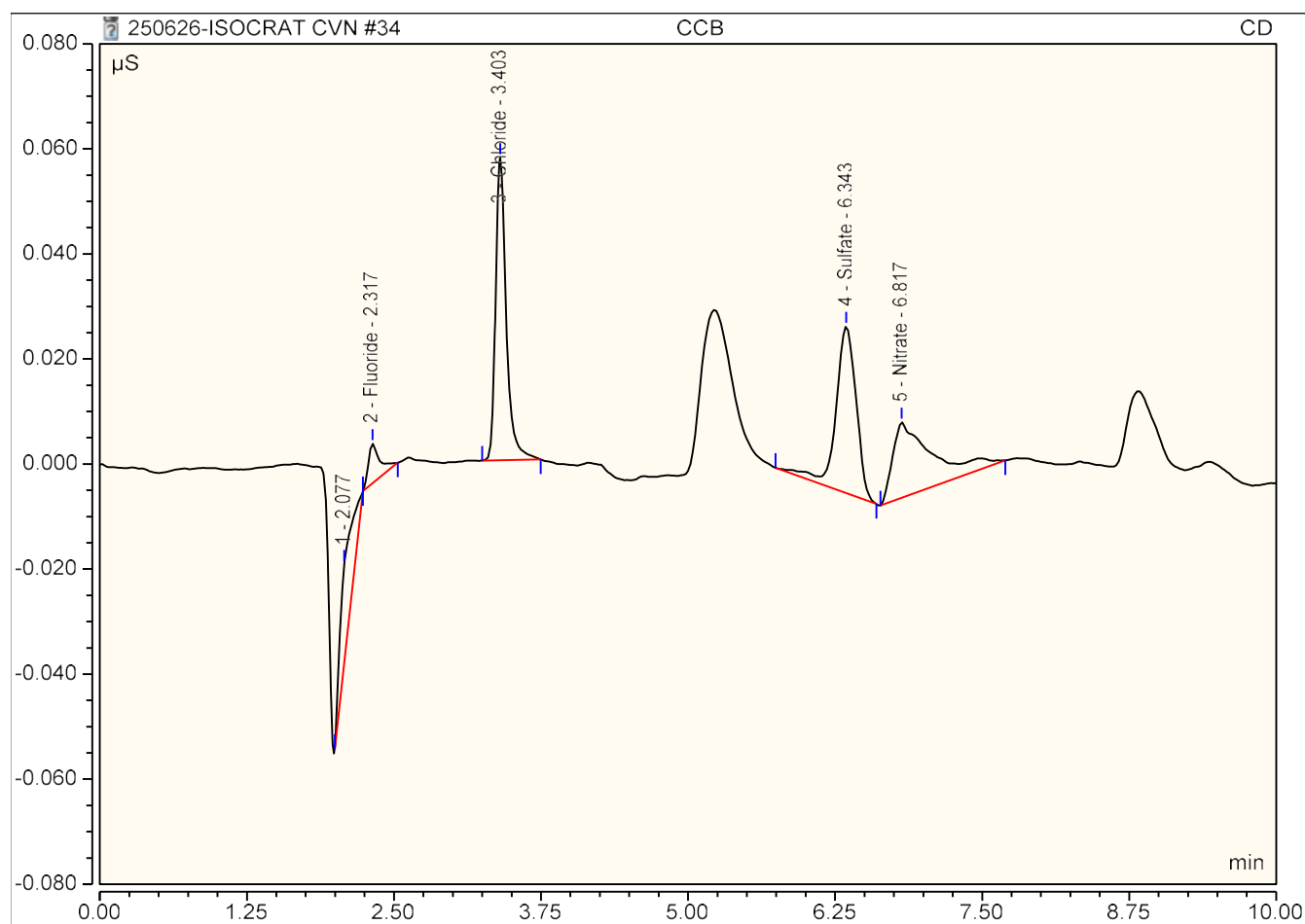
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.32	Fluoride	BMB	0.530	5.815	0.9834
3	3.41	Chloride	BMB	3.795	38.086	9.9233
4	5.76	Bromide	BMB	0.121	0.897	0.9324
5	6.20	Sulfate	BM *	5.645	28.595	19.3131
6	6.85	Nitrate	MB*	0.905	5.130	0.9777
TOTAL:				11.00	78.52	32.13



Peak Integration Report

Sample Name:	CCB	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	26-Jun-2025 / 19:14	Run Time:	10.00

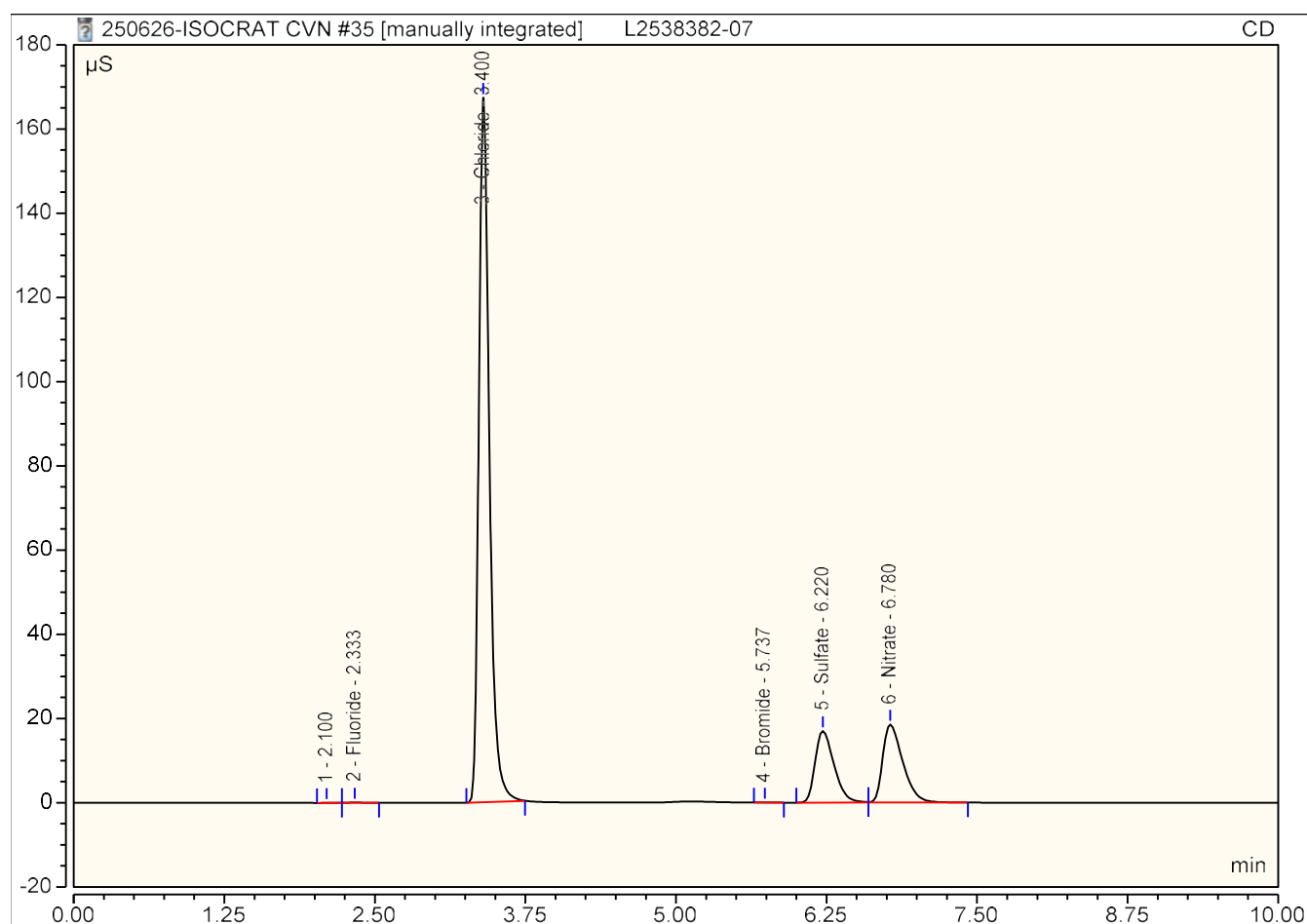
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.32	Fluoride	BMB	0.001	0.008	0.0288
3	3.40	Chloride	BMB	0.006	0.058	0.1109
4	6.34	Sulfate	BMB	0.006	0.032	0.7187
5	6.82	Nitrate	BMB	0.005	0.014	0.0326
TOTAL:				0.02	0.11	0.89



Peak Integration Report

Sample Name:	L2538382-07	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	26-Jun-2025 / 19:26	Run Time:	10.00

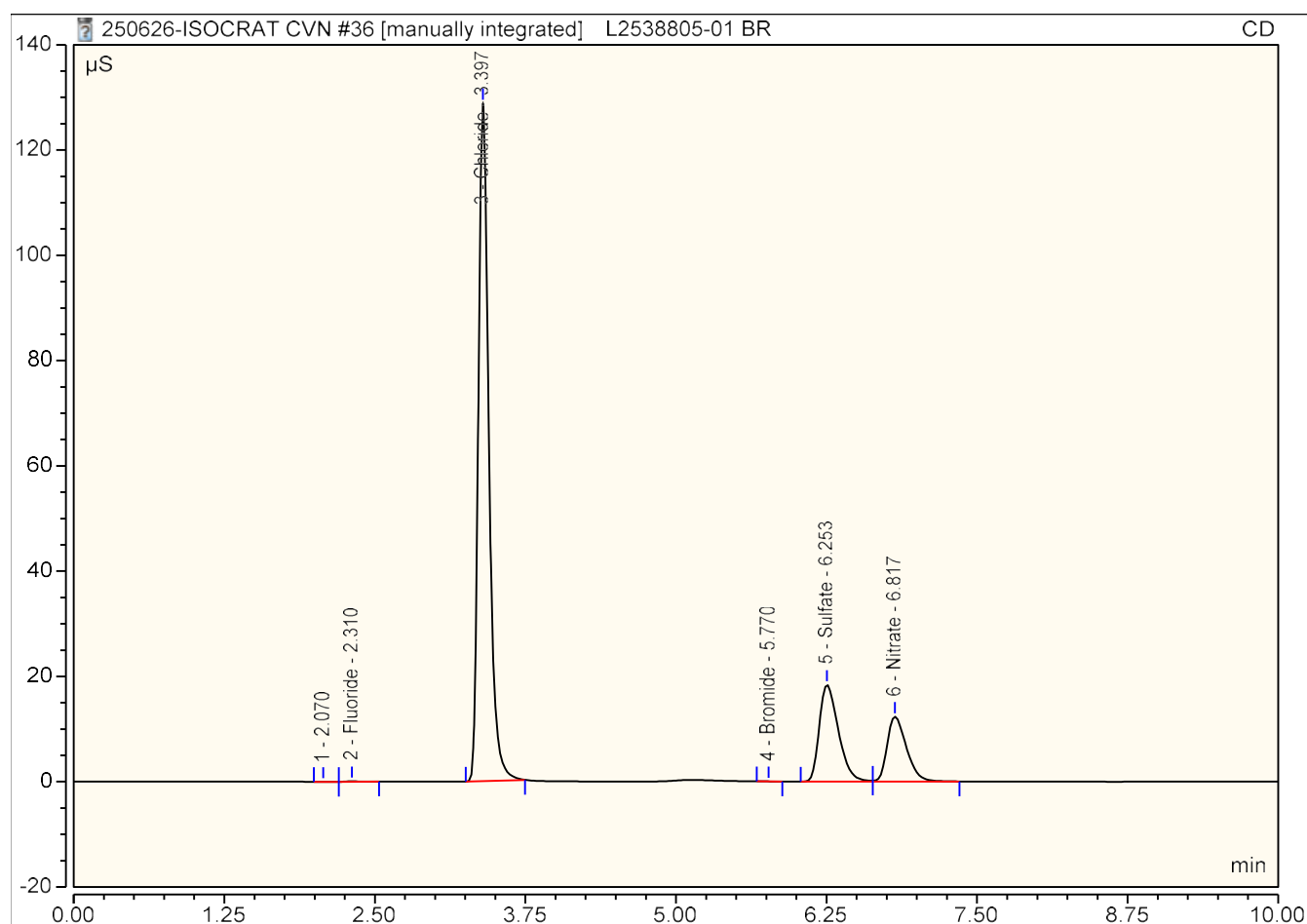
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.33	Fluoride	BMB	0.007	0.071	0.0408
3	3.40	Chloride	BMB	16.960	167.288	44.0183
4	5.74	Bromide	BMB	0.001	0.009	0.0467
5	6.22	Sulfate	BM *	3.095	17.007	10.9051
6	6.78	Nitrate	MB*	3.595	18.561	3.8032
TOTAL:				23.66	202.94	58.81



Peak Integration Report

Sample Name:	L2538805-01 BR	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	26-Jun-2025 / 19:38	Run Time:	10.00

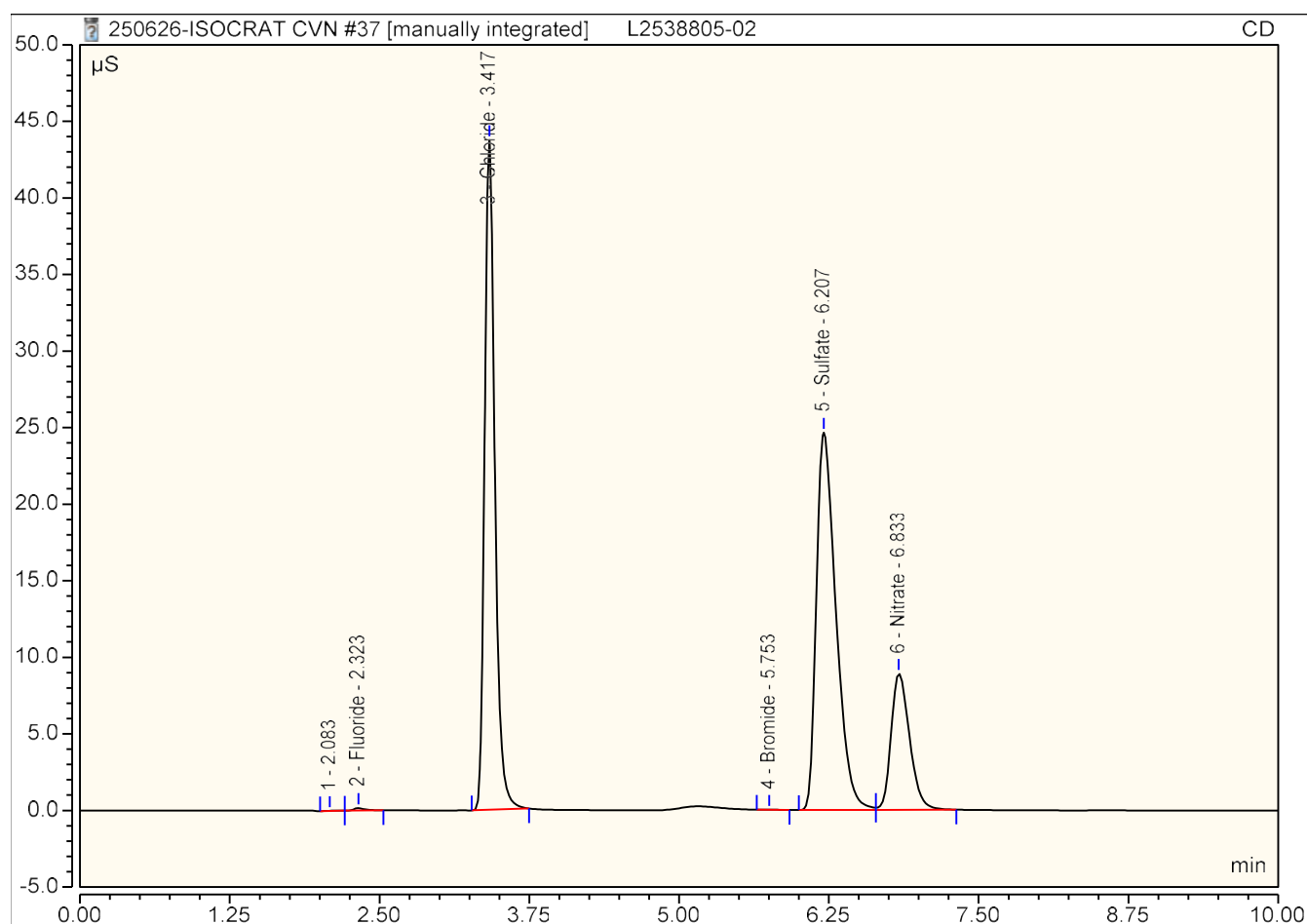
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.31	Fluoride	BMB	0.011	0.107	0.0475
3	3.40	Chloride	BMB	13.007	128.766	33.7801
4	5.77	Bromide	BMB	0.001	0.006	0.0418
5	6.25	Sulfate	BM *	3.372	18.376	11.8179
6	6.82	Nitrate	MB*	2.280	12.292	2.4224
TOTAL:				18.67	159.55	48.11



Peak Integration Report

Sample Name:	L2538805-02	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	26-Jun-2025 / 19:50	Run Time:	10.00

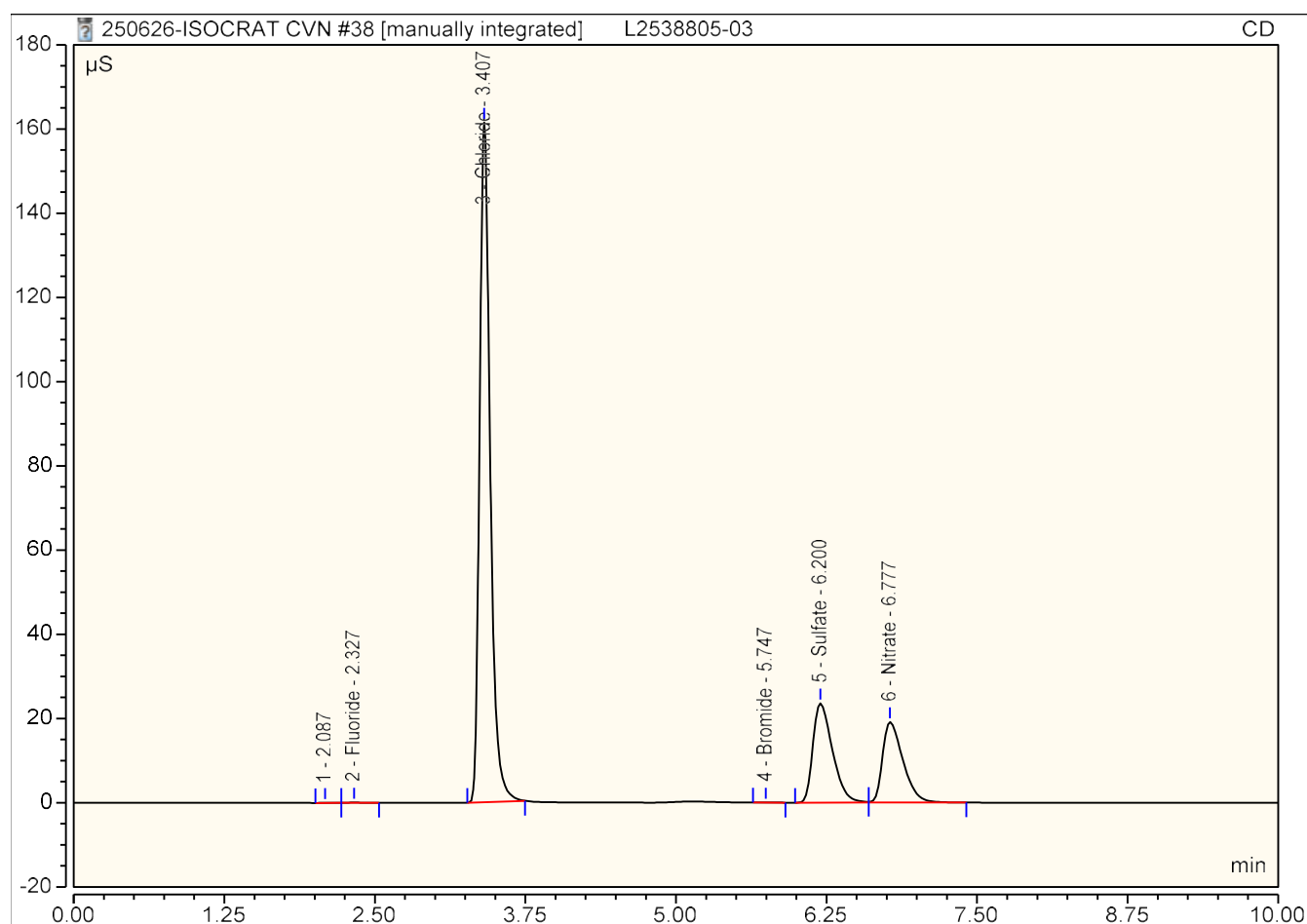
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.32	Fluoride	BMB	0.016	0.167	0.0565
3	3.42	Chloride	BMB	4.327	43.740	11.3022
4	5.75	Bromide	BMB	0.002	0.015	0.0511
5	6.21	Sulfate	BM *	4.668	24.645	16.0914
6	6.83	Nitrate	MB*	1.596	8.896	1.7031
TOTAL:				10.61	77.46	29.20



Peak Integration Report

Sample Name:	L2538805-03	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	26-Jun-2025 / 20:02	Run Time:	10.00

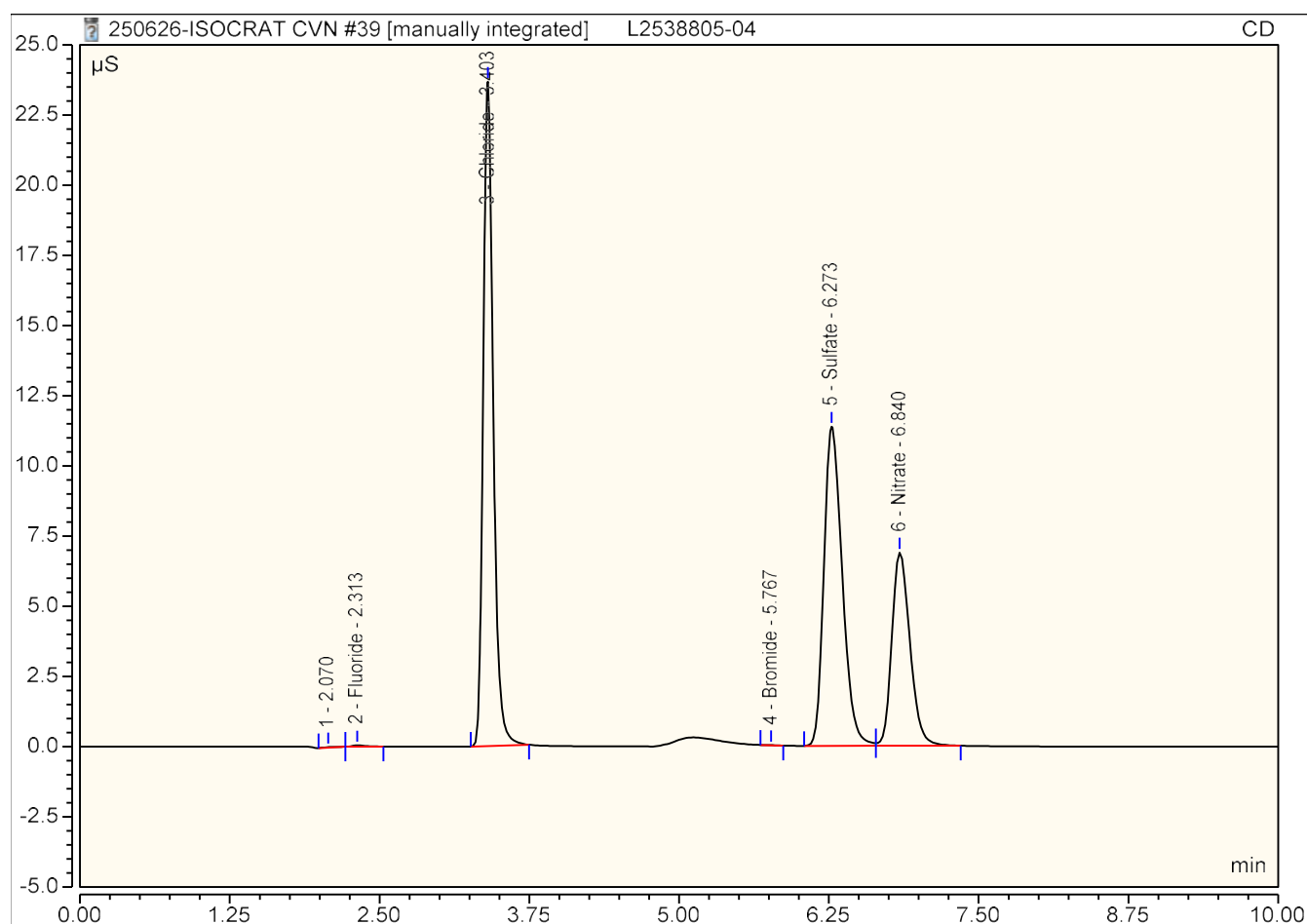
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.33	Fluoride	BMB	0.007	0.069	0.0405
3	3.41	Chloride	BMB	16.440	161.406	42.6701
4	5.75	Bromide	BMB	0.002	0.016	0.0524
5	6.20	Sulfate	BM *	4.451	23.622	15.3757
6	6.78	Nitrate	MB*	3.760	19.131	3.9763
TOTAL:				24.66	204.24	62.11



Peak Integration Report

Sample Name:	L2538805-04	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	26-Jun-2025 / 20:14	Run Time:	10.00

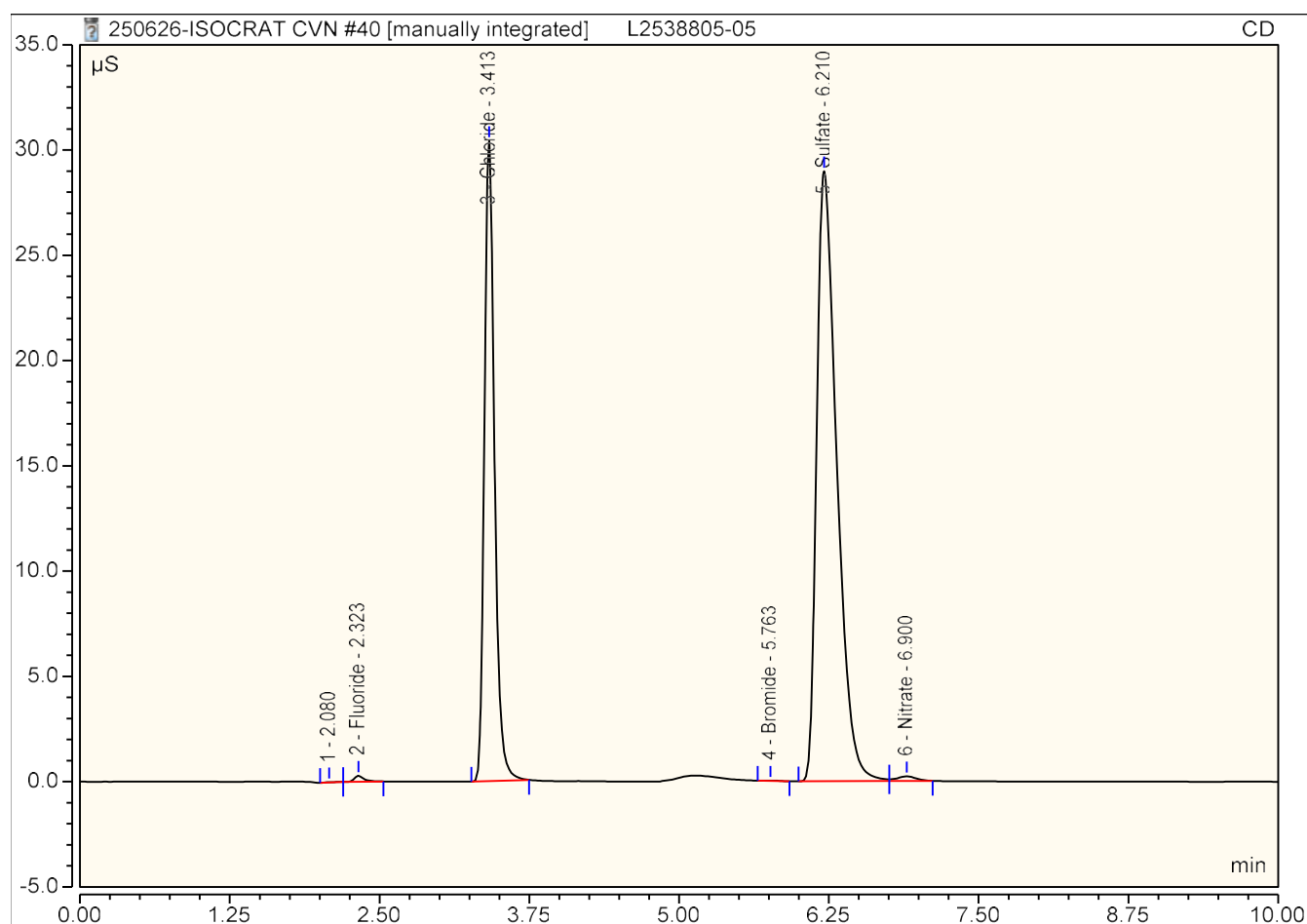
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.31	Fluoride	BMB	0.006	0.051	0.0378
3	3.40	Chloride	BMB	2.302	23.665	6.0559
4	5.77	Bromide	BMB	0.000	0.003	0.0391
5	6.27	Sulfate	BM *	2.015	11.371	7.3416
6	6.84	Nitrate	MB*	1.212	6.885	1.3005
TOTAL:				5.53	41.97	14.77



Peak Integration Report

Sample Name:	L2538805-05	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	26-Jun-2025 / 20:26	Run Time:	10.00

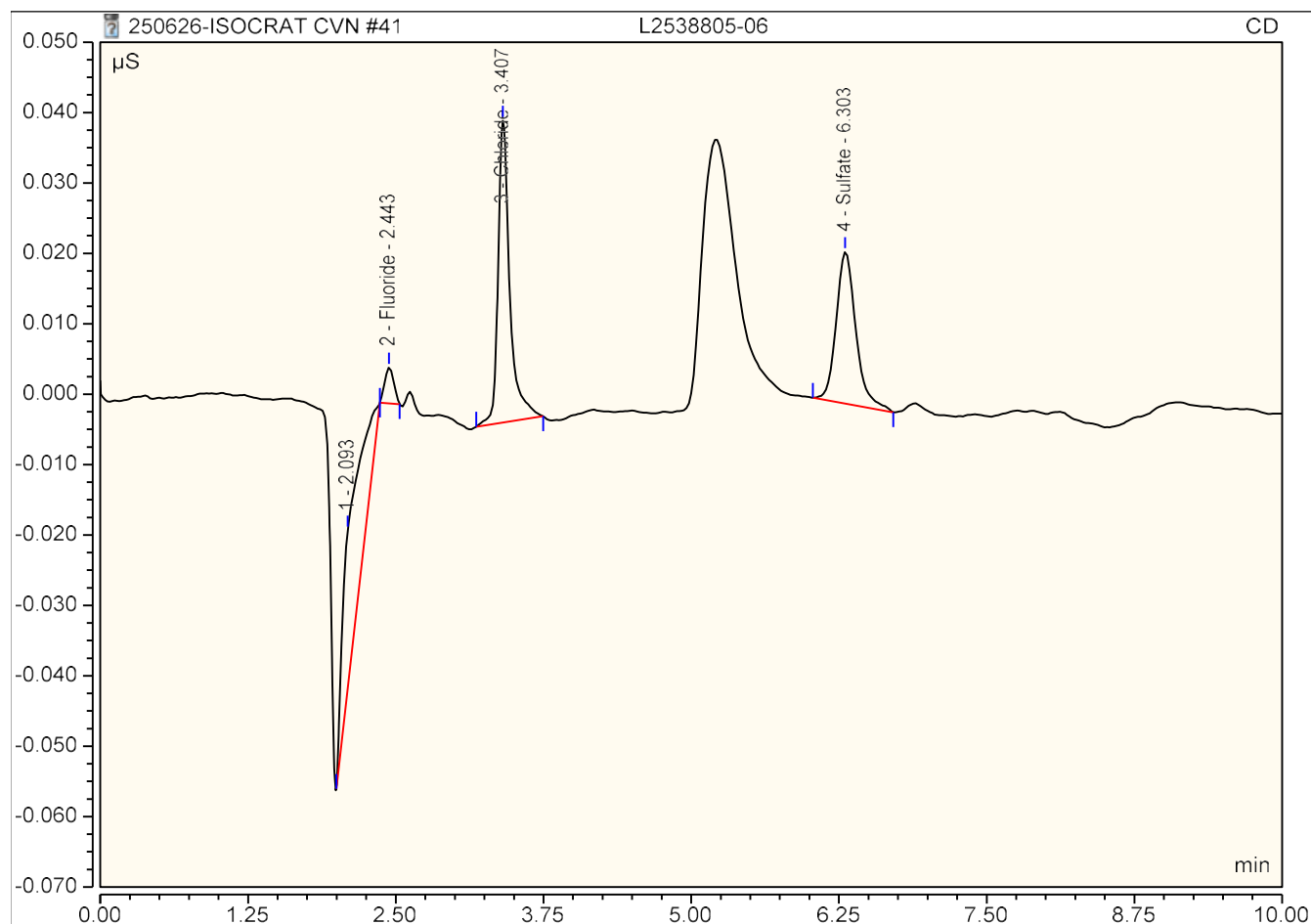
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.32	Fluoride	BMB	0.026	0.282	0.0744
3	3.41	Chloride	BMB	2.977	30.404	7.8054
4	5.76	Bromide	BMB	0.002	0.017	0.0529
5	6.21	Sulfate	BM *	5.640	28.968	19.2960
6	6.90	Nitrate	MB*	0.041	0.222	0.0696
TOTAL:				8.69	59.89	27.30



Peak Integration Report

Sample Name:	L2538805-06	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	26-Jun-2025 / 20:39	Run Time:	10.00

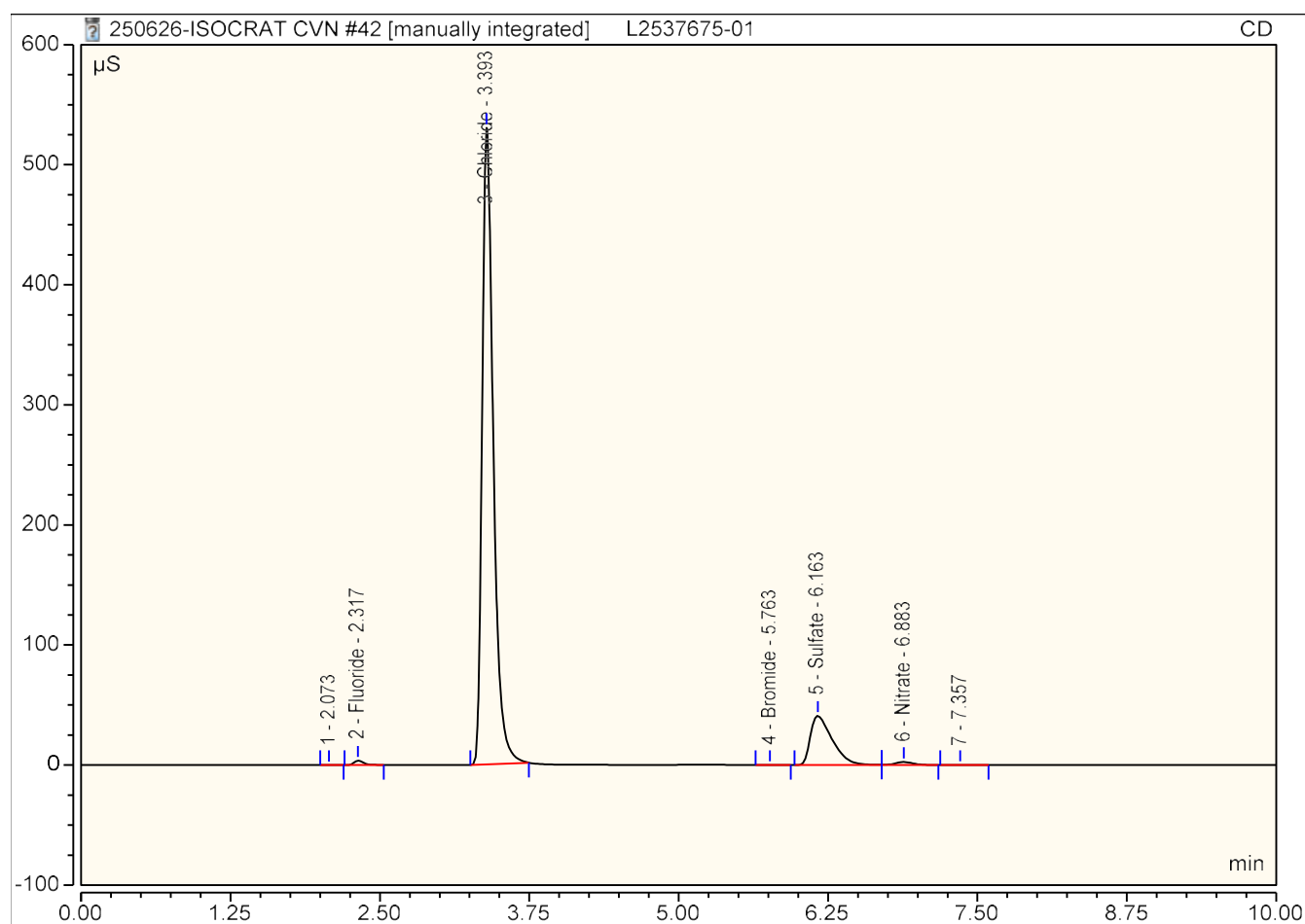
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.44	Fluoride	BMB	0.000	0.005	0.0281
3	3.41	Chloride	BMB	0.005	0.043	0.1080
4	6.30	Sulfate	BMB	0.004	0.022	0.7115
TOTAL:				0.01	0.07	0.85



Peak Integration Report

Sample Name:	L2537675-01	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	26-Jun-2025 / 20:51	Run Time:	10.00

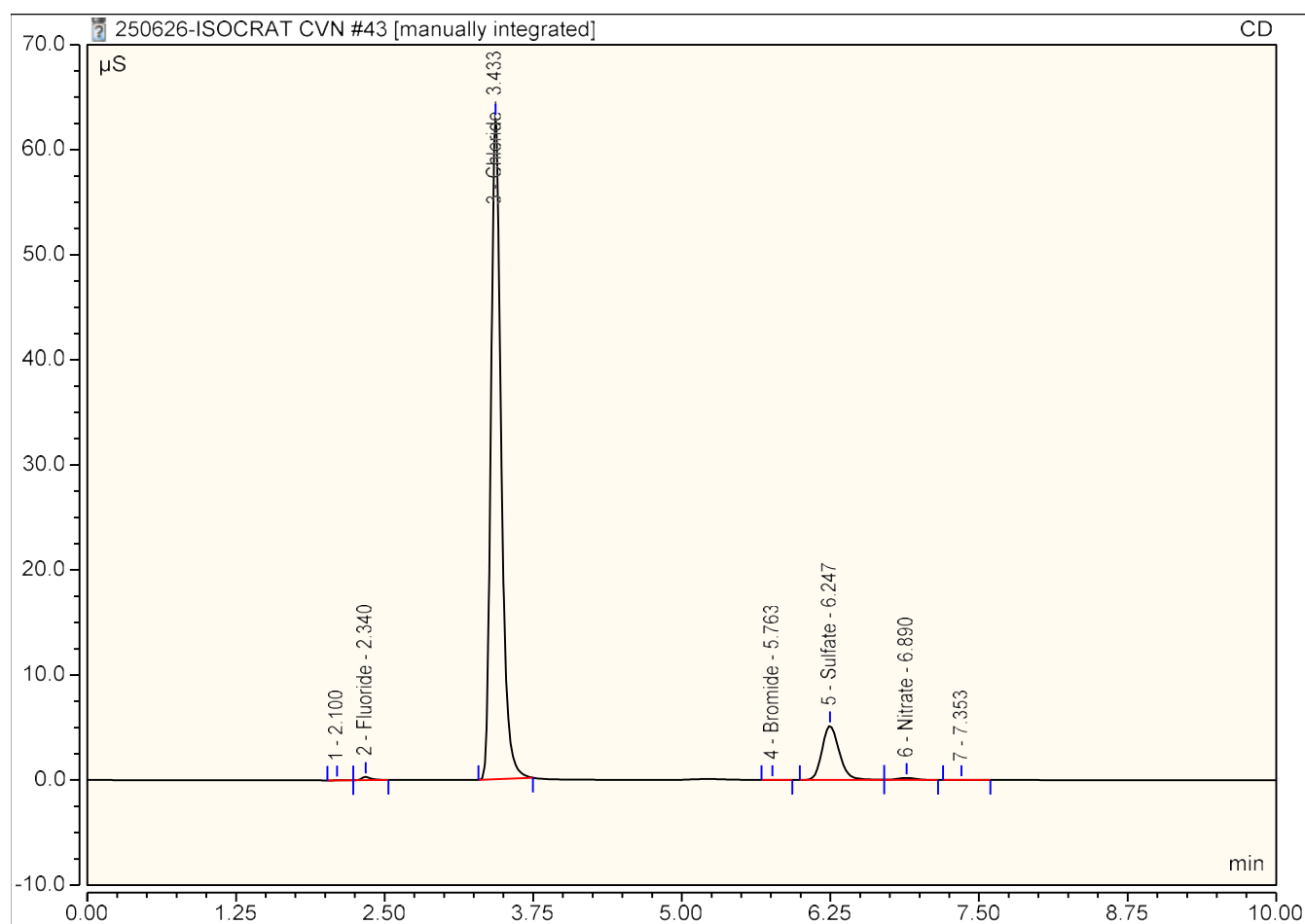
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.32	Fluoride	BMB	0.342	3.739	0.6430
3	3.39	Chloride	BMB	57.566	530.122	149.1746
4	5.76	Bromide	BMB	0.004	0.031	0.0676
5	6.16	Sulfate	BM *	8.635	40.954	29.1727
6	6.88	Nitrate	MB*	0.416	2.450	0.4636
TOTAL:				66.96	577.30	179.52



Peak Integration Report

Sample Name:	L2537675-01; 10X	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	10.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	26-Jun-2025 / 21:03	Run Time:	10.00

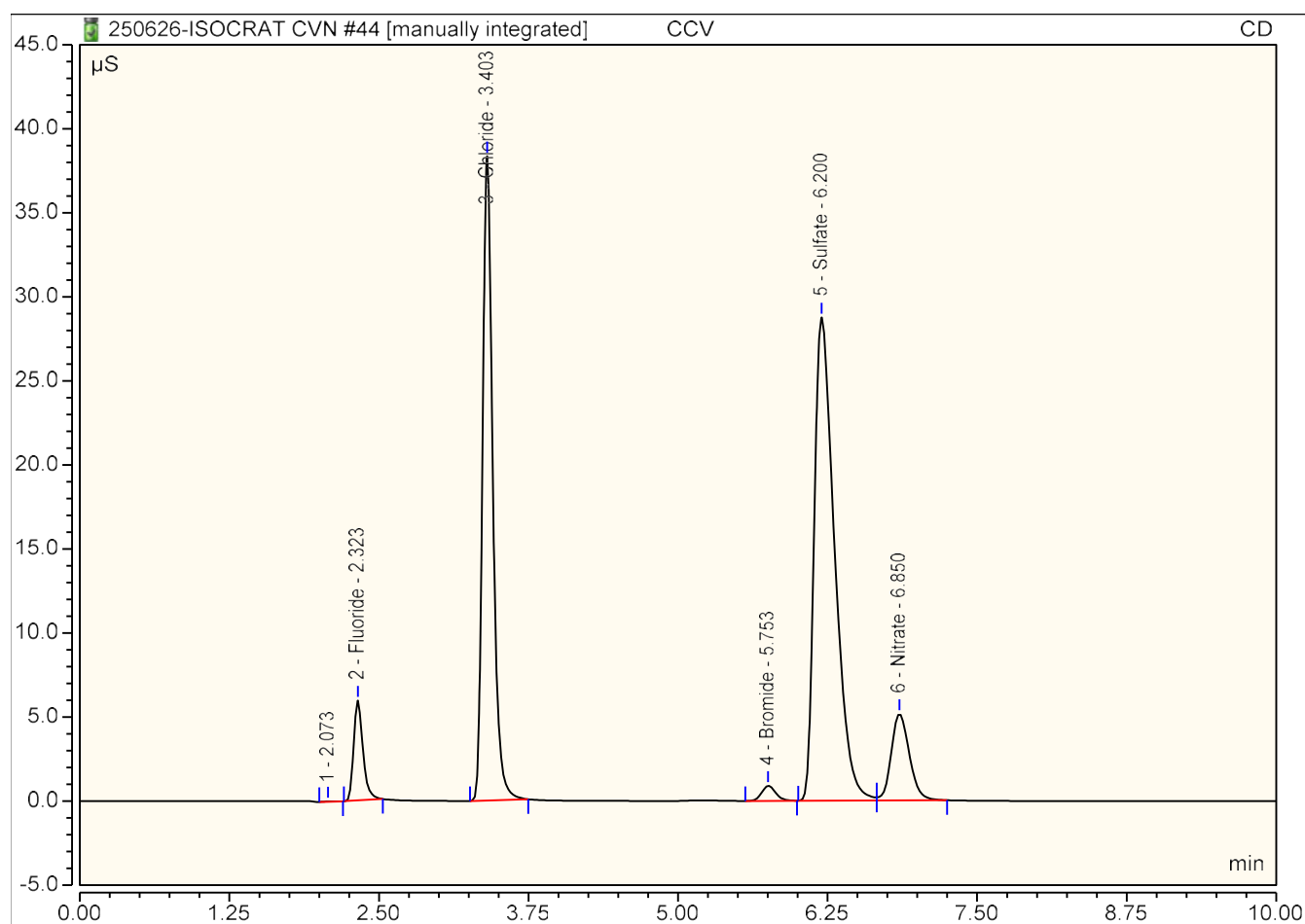
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.34	Fluoride	BMB	0.027	0.299	0.7507
3	3.43	Chloride	BMB	6.310	62.896	164.3585
4	5.76	Bromide	BMB	0.000	0.002	0.3969
5	6.25	Sulfate	BM *	0.866	5.139	35.5190
6	6.89	Nitrate	MB*	0.035	0.197	0.6377
TOTAL:				7.24	68.53	201.66



Peak Integration Report

Sample Name:	CCV	Inj. Vol.:	25.00
Injection Type:	Check Standard	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	26-Jun-2025 / 21:15	Run Time:	10.00

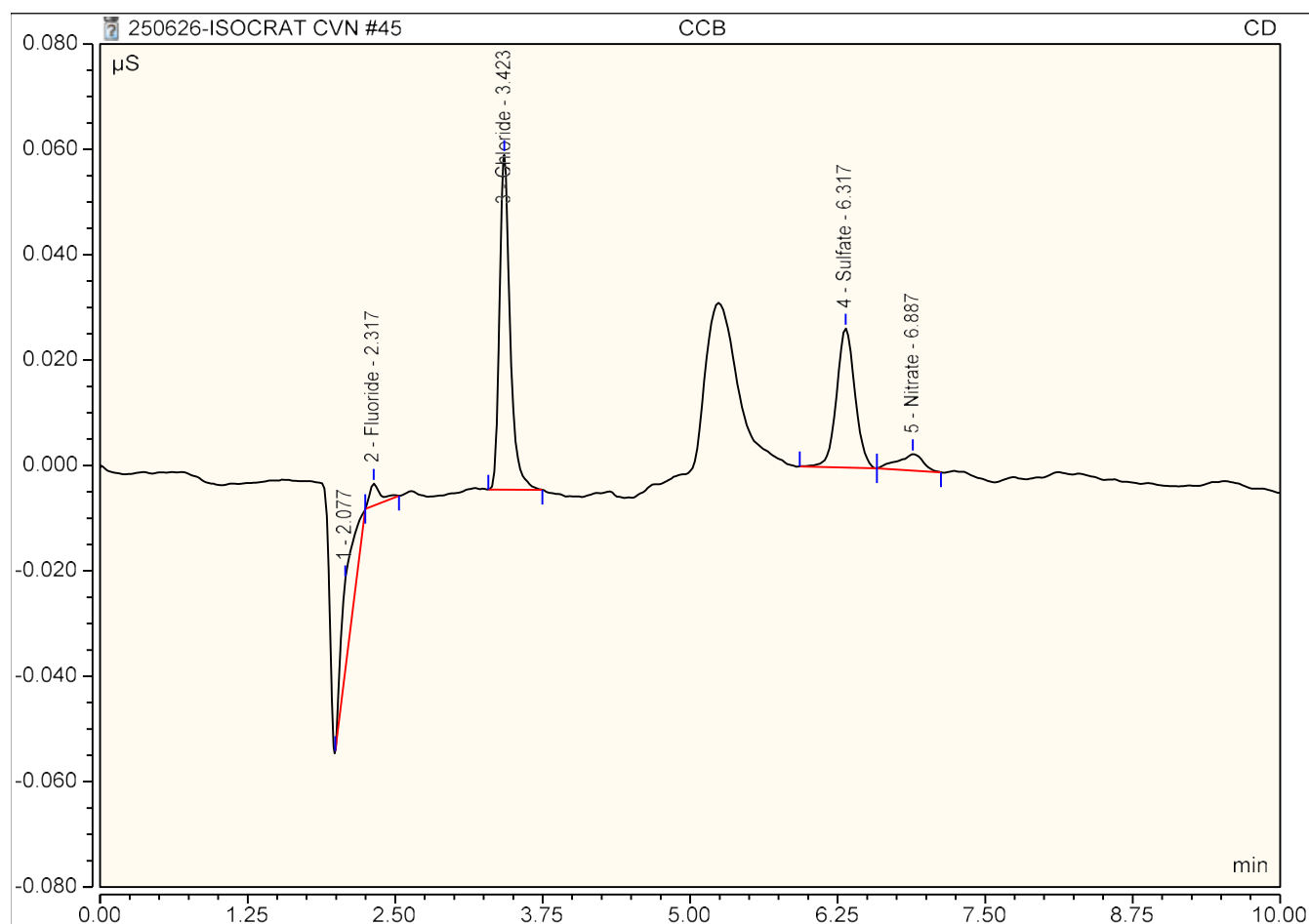
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.32	Fluoride	BMB	0.532	5.939	0.9855
3	3.40	Chloride	BMB	3.794	38.320	9.9209
4	5.75	Bromide	BMB	0.121	0.896	0.9342
5	6.20	Sulfate	BM *	5.643	28.749	19.3069
6	6.85	Nitrate	MB*	0.905	5.143	0.9779
TOTAL:				11.00	79.05	32.13



Peak Integration Report

Sample Name:	CCB	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	26-Jun-2025 / 21:27	Run Time:	10.00

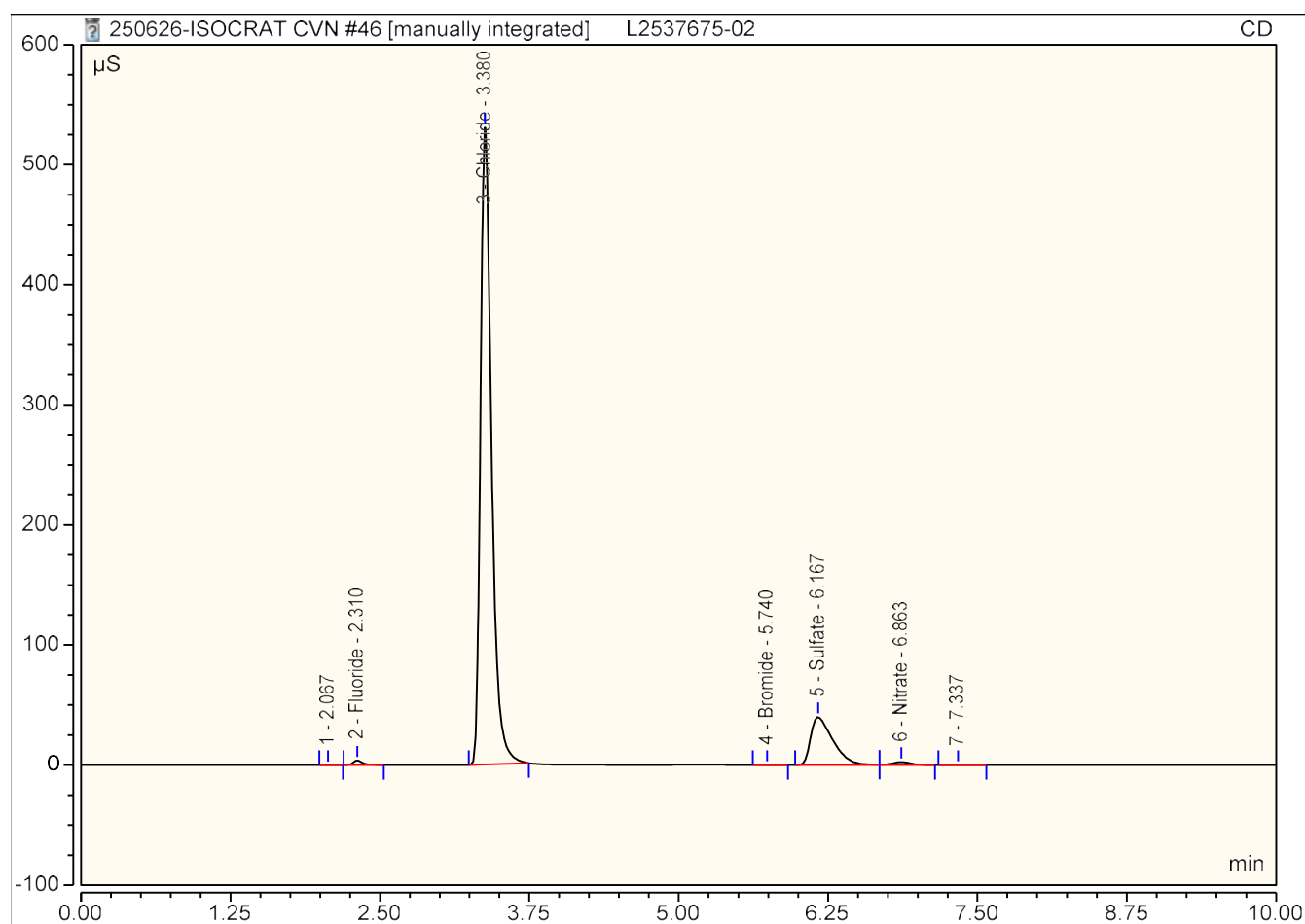
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.32	Fluoride	BMB	0.000	0.004	0.0281
3	3.42	Chloride	BMB	0.007	0.064	0.1124
4	6.32	Sulfate	BMB	0.005	0.026	0.7134
5	6.89	Nitrate	BMB	0.001	0.003	0.0277
TOTAL:				0.01	0.10	0.88



Peak Integration Report

Sample Name:	L2537675-02	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	26-Jun-2025 / 21:39	Run Time:	10.00

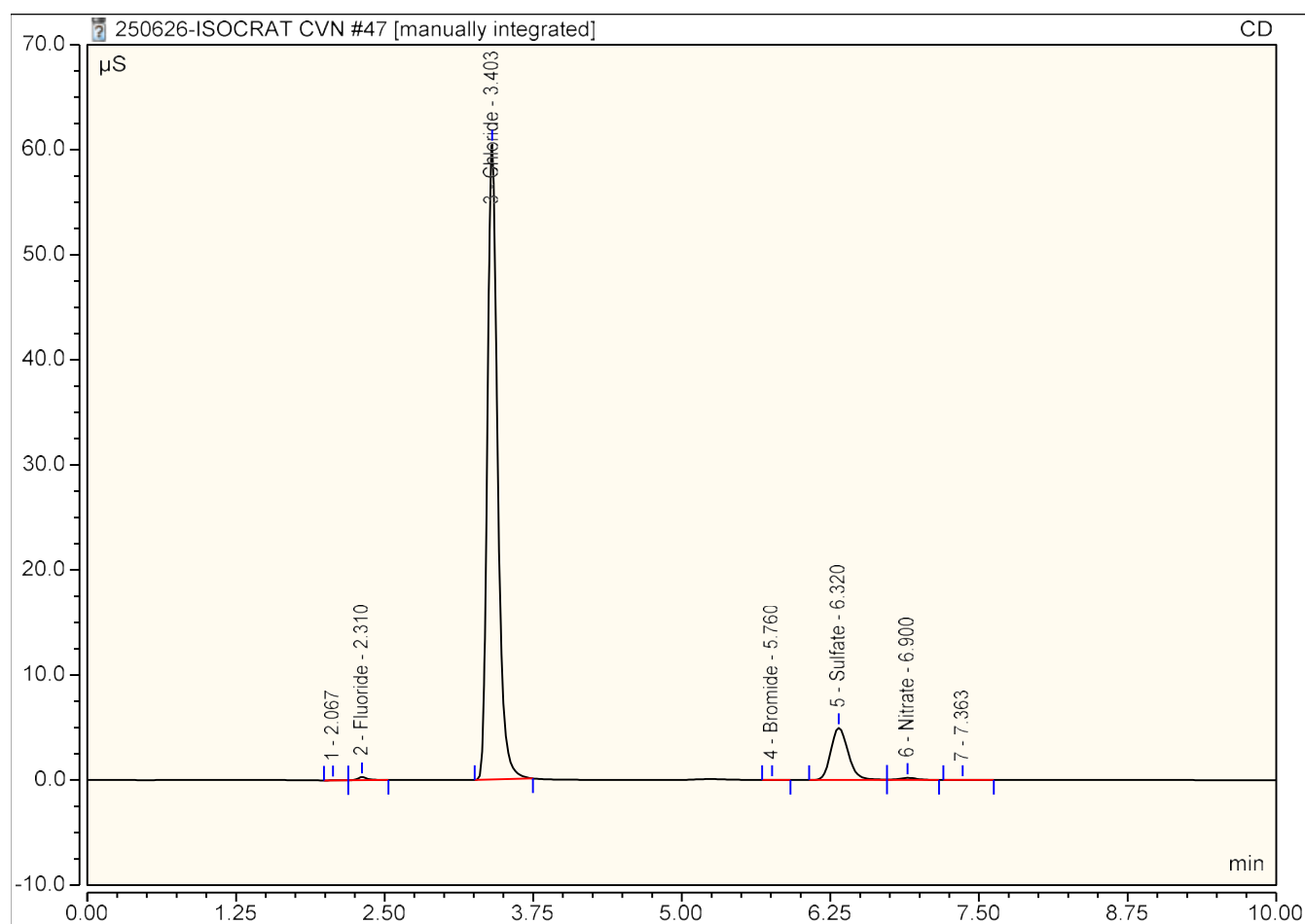
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.31	Fluoride	BMB	0.341	3.750	0.6427
3	3.38	Chloride	BMB	56.690	530.533	146.9065
4	5.74	Bromide	BMB	0.004	0.029	0.0649
5	6.17	Sulfate	BM *	8.537	39.894	28.8479
6	6.86	Nitrate	MB*	0.417	2.437	0.4648
TOTAL:				65.99	576.64	176.93



Peak Integration Report

Sample Name:	L2537675-02; 10X	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	10.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	26-Jun-2025 / 21:51	Run Time:	10.00

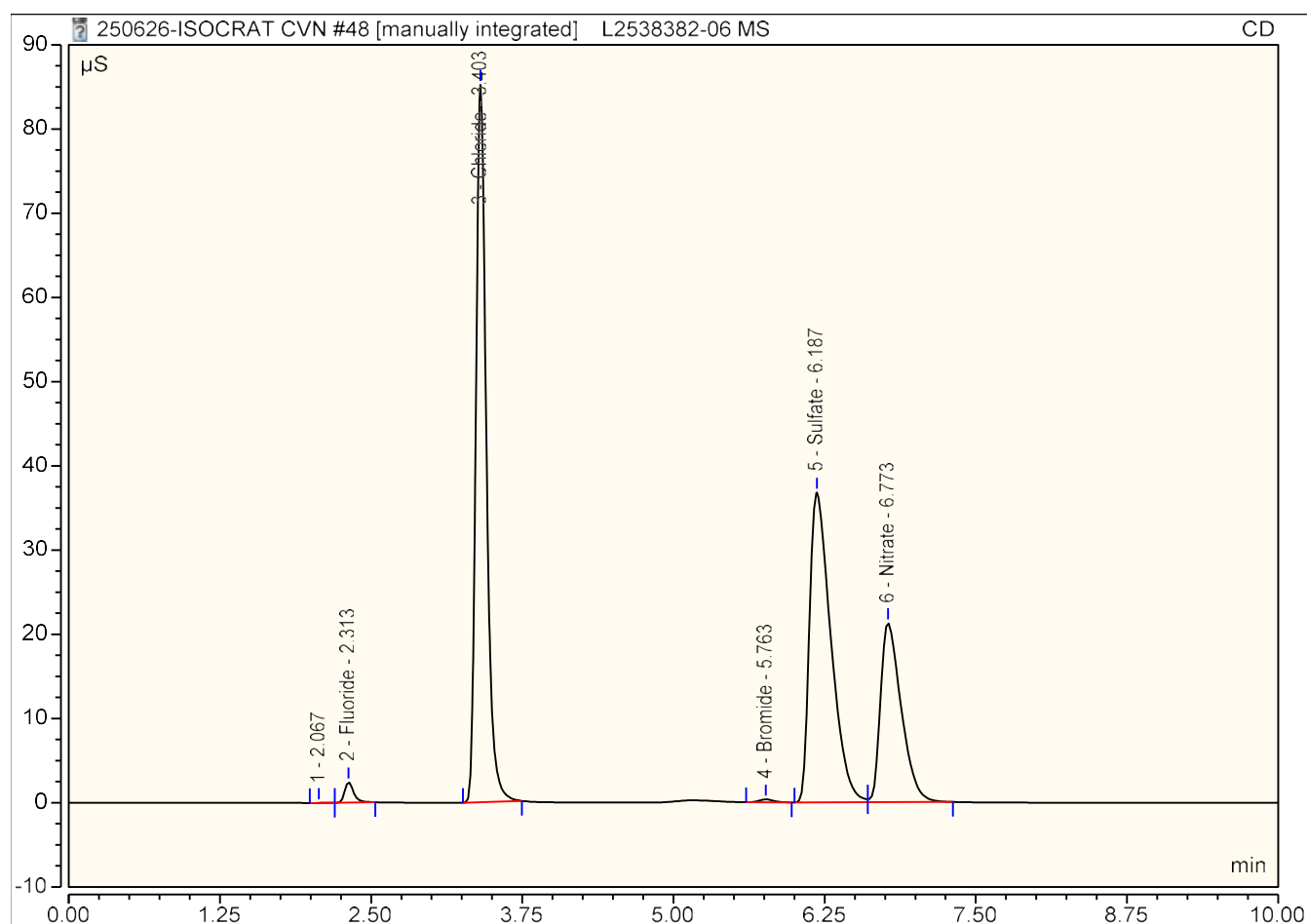
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.31	Fluoride	BMB	0.026	0.290	0.7469
3	3.40	Chloride	BMB	6.045	60.459	157.4900
4	5.76	Bromide	BMB	0.000	0.002	0.3929
5	6.32	Sulfate	BM *	0.840	4.947	34.6775
6	6.90	Nitrate	MB*	0.035	0.197	0.6414
TOTAL:				6.95	65.89	193.95



Peak Integration Report

Sample Name:	L2538382-06 MS	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	26-Jun-2025 / 22:03	Run Time:	10.00

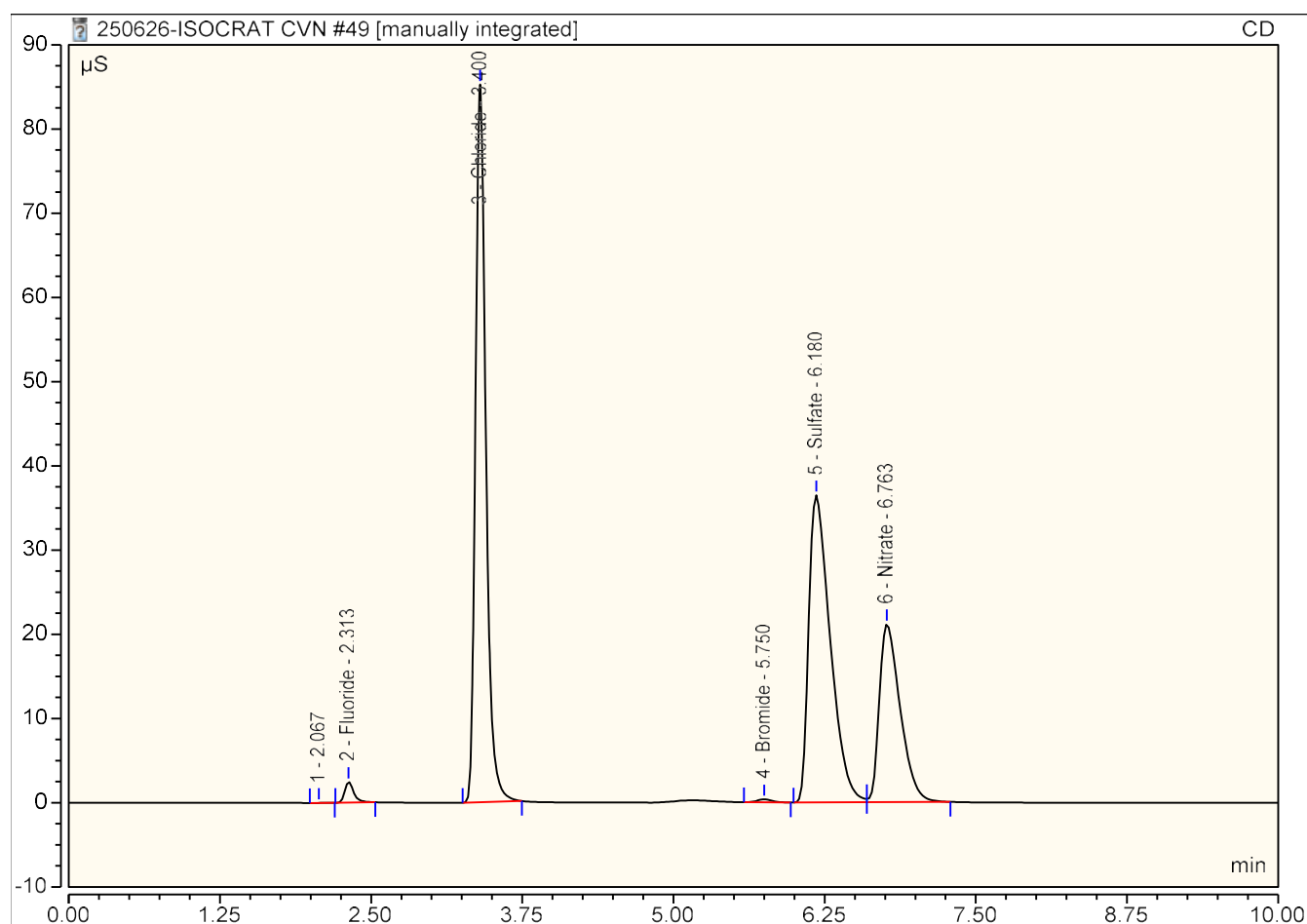
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.31	Fluoride	BMB	0.212	2.440	0.4090
3	3.40	Chloride	BMB	8.531	85.194	22.1891
4	5.76	Bromide	BMB	0.048	0.361	0.3941
5	6.19	Sulfate	BM *	7.532	36.808	25.5368
6	6.77	Nitrate	MB*	4.226	21.274	4.4658
TOTAL:				20.55	146.08	52.99



Peak Integration Report

Sample Name:	L2538382-06 MSD	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	26-Jun-2025 / 22:15	Run Time:	10.00

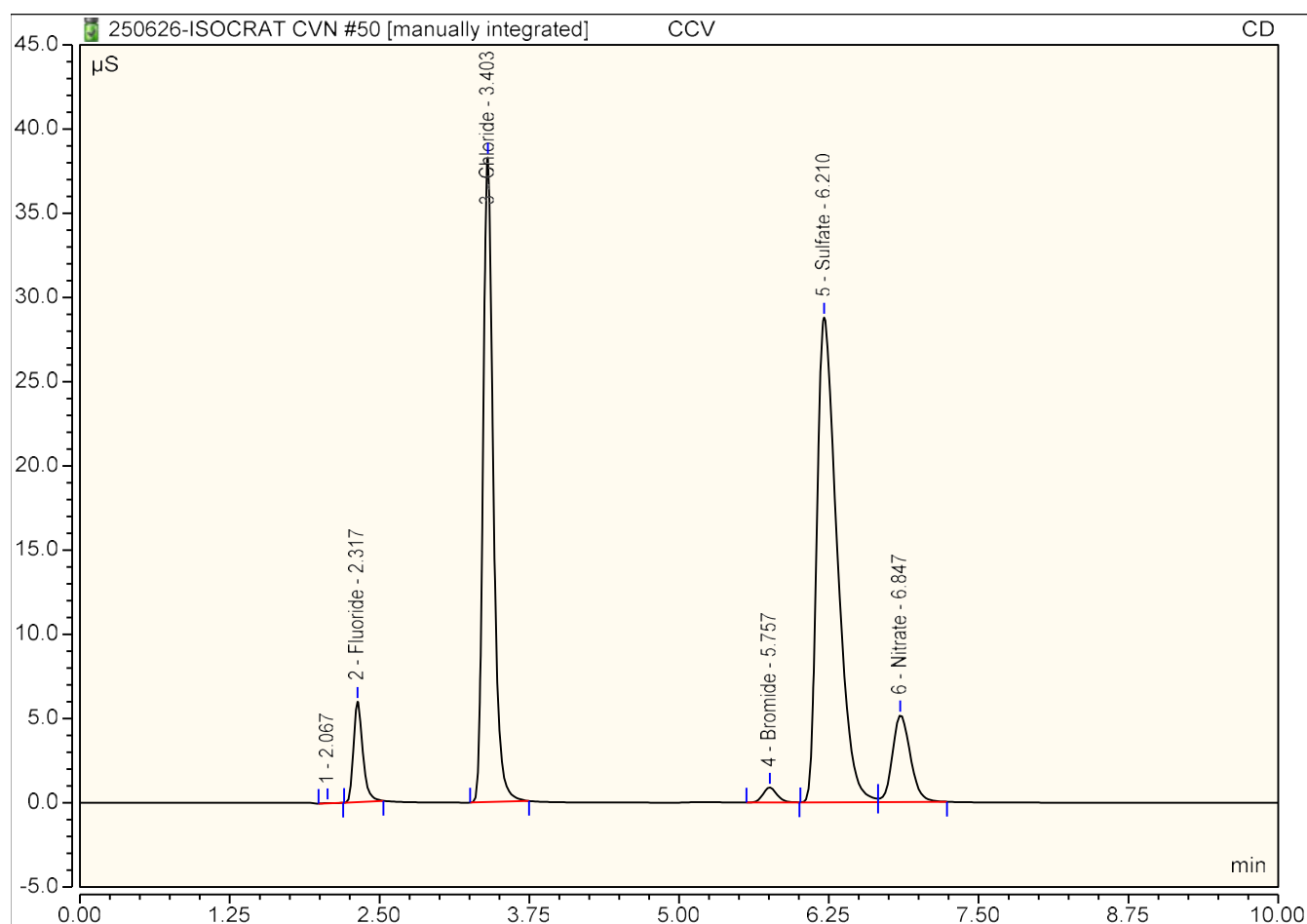
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.31	Fluoride	BMB	0.213	2.453	0.4120
3	3.40	Chloride	BMB	8.510	85.204	22.1334
4	5.75	Bromide	BMB	0.048	0.362	0.3943
5	6.18	Sulfate	BM *	7.522	36.461	25.5010
6	6.76	Nitrate	MB*	4.222	21.121	4.4616
TOTAL:				20.51	145.60	52.90



Peak Integration Report

Sample Name:	CCV	Inj. Vol.:	25.00
Injection Type:	Check Standard	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	26-Jun-2025 / 22:27	Run Time:	10.00

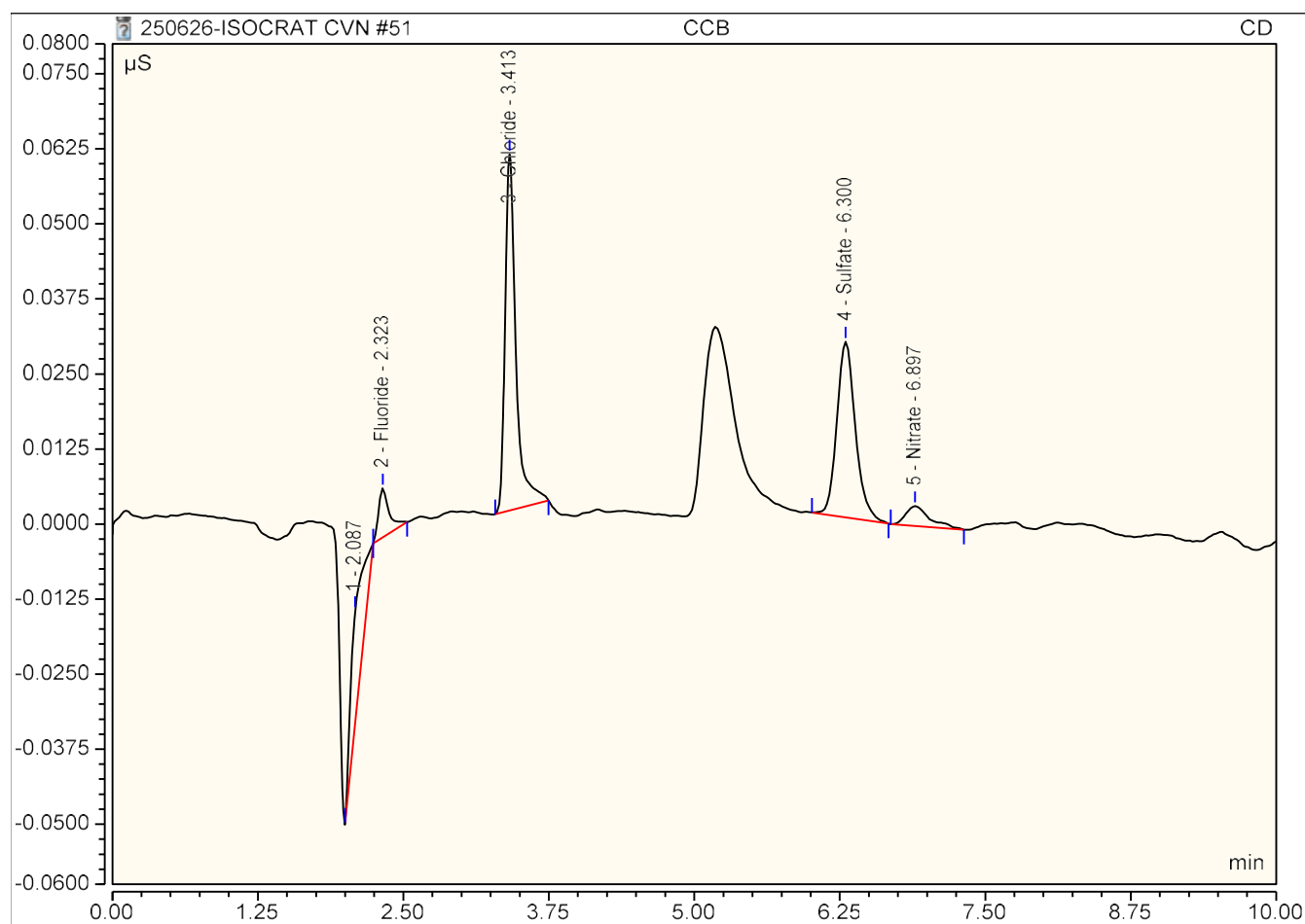
No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.32	Fluoride	BMB	0.531	5.966	0.9847
3	3.40	Chloride	BMB	3.788	38.277	9.9062
4	5.76	Bromide	BMB	0.121	0.895	0.9354
5	6.21	Sulfate	BM *	5.636	28.784	19.2846
6	6.85	Nitrate	MB*	0.899	5.147	0.9710
TOTAL:				10.98	79.07	32.08



Peak Integration Report

Sample Name:	CCB	Inj. Vol.:	25.00
Injection Type:	Unknown	Dilution Factor:	1.0000
Instrument Method:	Anions_050420_ThermoFisher	Operator:	IC 4
Inj. Date / Time:	26-Jun-2025 / 22:39	Run Time:	10.00

No.	Time min	Peak Name	Peak Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount
2	2.32	Fluoride	BMB	0.001	0.008	0.0288
3	3.41	Chloride	BMB	0.006	0.059	0.1118
4	6.30	Sulfate	BMB	0.005	0.029	0.7157
5	6.90	Nitrate	BMB	0.001	0.003	0.0277
TOTAL:				0.01	0.10	0.88



Anion Summary Report

No.	Name	Dilution	Amount CD Fluoride	Amount CD Chloride	Amount CD Nitrate	Amount CD Sulfate	Amount CD Bromide
1	BLANK	1.0	0.0440	0.1000	n.a.	n.a.	n.a.
2	STD 0.5	1.0	0.0418	0.2829	0.0429	1.0180	0.0511
3	STD 1.0	1.0	0.0555	0.5048	0.0622	1.4554	0.0744
4	STD 2.0	1.0	0.1773	1.9278	0.1949	4.1152	0.1845
5	STD 3.0	1.0	0.4593	4.8782	0.4665	9.9062	0.4524
6	STD 4.0	1.0	2.0605	20.2356	2.0083	38.3461	2.0125
7	STD 5.0	1.0	4.9806	49.9206	5.0460	100.6592	4.8837
8	RINSE	1.0	0.0393	0.1272	0.0293	0.7192	n.a.
9	CCV	1.0	0.9765	9.8990	0.9984	19.4599	0.9661
10	CCB	1.0	0.0291	0.1064	0.0271	0.7153	n.a.
11	ICV	1.0	0.7436	8.1895	0.7817	8.0481	0.7676
12	ICB	1.0	0.0306	0.1082	0.0272	0.7182	n.a.
13	BLK	1.0	0.0288	0.1130	0.0272	0.7223	n.a.
14	LCS	1.0	0.7311	8.1053	0.7718	7.9863	0.7525
15	L2539898-01	1.0	0.5957	78.3992	0.5526	9.5501	0.0385
16	L2539898-01; 10X	10.0	0.7314	83.1789	0.6667	14.4691	n.a.
17	L2539898-02 MS	1.0	0.3678	4.1598	0.3959	8.3634	0.3826
18	L2539898-02 DUP	1.0	n.a.	0.0972	n.a.	0.7050	n.a.
19	L2539898-02	1.0	n.a.	0.0976	n.a.	0.7045	n.a.
20	L2539898-03	1.0	0.0331	0.1047	n.a.	0.7128	n.a.
21	CCV	1.0	0.9400	9.8987	0.9761	19.1896	0.9419
22	CCB	1.0	0.0297	0.1106	0.0273	0.7176	n.a.
23	L2539898-04 MS	1.0	0.3623	4.0576	0.3874	8.1304	0.3759
24	L2539898-04 DUP	1.0	0.0295	0.1028	0.0284	0.7111	n.a.
25	L2539898-04	1.0	0.0289	0.1044	0.0289	0.7108	n.a.
26	L2539970-05 CL SO4 NO3; 50X	50.0	1.7141	1119.2585	6.0625	850.8268	6.6116
27	L2538382-01 BR	1.0	0.0401	13.2672	2.0452	21.4562	0.0765
28	L2538382-02	1.0	0.0419	29.2075	4.3337	16.0248	0.0541
29	L2538382-03	1.0	0.0478	29.2338	6.8446	17.6987	0.0681
30	L2538382-04	1.0	0.0490	3.5229	1.2971	12.2175	0.0401
31	L2538382-05	1.0	0.0408	47.1225	3.6105	11.1357	n.a.
32	L2538382-06	1.0	0.0482	18.8653	4.2214	18.5194	0.0697
33	CCV	1.0	0.9834	9.9233	0.9777	19.3131	0.9324
34	CCB	1.0	0.0288	0.1109	0.0326	0.7187	n.a.
35	L2538382-07	1.0	0.0408	44.0183	3.8032	10.9051	0.0467
36	L2538805-01 BR	1.0	0.0475	33.7801	2.4224	11.8179	0.0418
37	L2538805-02	1.0	0.0565	11.3022	1.7031	16.0914	0.0511
38	L2538805-03	1.0	0.0405	42.6701	3.9763	15.3757	0.0524
39	L2538805-04	1.0	0.0378	6.0559	1.3005	7.3416	0.0391
40	L2538805-05	1.0	0.0744	7.8054	0.0696	19.2960	0.0529
41	L2538805-06	1.0	0.0281	0.1080	n.a.	0.7115	n.a.

42	L2537675-01	1.0	0.6430	149.1746	0.4636	29.1727	0.0676
43	L2537675-01; 10X	10.0	0.7507	164.3585	0.6377	35.5190	0.3969
44	CCV	1.0	0.9855	9.9209	0.9779	19.3069	0.9342
45	CCB	1.0	0.0281	0.1124	0.0277	0.7134	n.a.
46	L2537675-02	1.0	0.6427	146.9065	0.4648	28.8479	0.0649
47	L2537675-02; 10X	10.0	0.7469	157.4900	0.6414	34.6775	0.3929
48	L2538382-06 MS	1.0	0.4090	22.1891	4.4658	25.5368	0.3941
49	L2538382-06 MSD	1.0	0.4120	22.1334	4.4616	25.5010	0.3943
50	CCV	1.0	0.9847	9.9062	0.9710	19.2846	0.9354
51	CCB	1.0	0.0288	0.1118	0.0277	0.7157	n.a.
	Sum:	127.000	22.4673		69.3866	1526.5590	23.6006
	Average:	2.490	0.4585		1.5084	30.5312	0.6941
	Rel.Std.Dev:	285.697 %	1.7598		1.2229	3.9140	1.9751

Inject Time	Comment
21/May/2025 19:51	AU
21/May/2025 20:04	LOT#250516-0.5
21/May/2025 20:16	LOT#250516-1.0
21/May/2025 20:28	LOT#250516-2.0
21/May/2025 20:40	LOT#250516-3.0
21/May/2025 20:52	LOT#250516-4.0
21/May/2025 21:04	LOT#250516-5.0
26/Jun/2025 14:00	WG2083986-7
26/Jun/2025 14:12	LOT#250625-C
26/Jun/2025 14:24	CVN
26/Jun/2025 14:36	LOT#250625-I
26/Jun/2025 14:48	CVN
26/Jun/2025 15:00	CVN
26/Jun/2025 15:12	LOT#250625-I
26/Jun/2025 15:24	CVN
26/Jun/2025 15:37	CVN
26/Jun/2025 15:49	CVN
26/Jun/2025 16:01	CVN
26/Jun/2025 16:13	CVN
26/Jun/2025 16:25	CVN
26/Jun/2025 16:37	LOT#250625-C
26/Jun/2025 16:49	CVN
26/Jun/2025 17:01	CVN
26/Jun/2025 17:13	CVN
26/Jun/2025 17:25	CVN
26/Jun/2025 17:37	CVN
26/Jun/2025 17:49	CVN
26/Jun/2025 18:02	CVN
26/Jun/2025 18:14	CVN
26/Jun/2025 18:26	CVN
26/Jun/2025 18:38	CVN
26/Jun/2025 18:50	CVN
26/Jun/2025 19:02	LOT#250625-C
26/Jun/2025 19:14	CVN
26/Jun/2025 19:26	CVN
26/Jun/2025 19:38	CVN
26/Jun/2025 19:50	CVN
26/Jun/2025 20:02	CVN
26/Jun/2025 20:14	CVN
26/Jun/2025 20:26	CVN
26/Jun/2025 20:39	CVN

26/Jun/2025 20:51	CVN
26/Jun/2025 21:03	CVN
26/Jun/2025 21:15	LOT#250625-C
26/Jun/2025 21:27	CVN
26/Jun/2025 21:39	CVN
26/Jun/2025 21:51	CVN
26/Jun/2025 22:03	CVN
26/Jun/2025 22:15	CVN
26/Jun/2025 22:27	LOT#250625-C
26/Jun/2025 22:39	CVN
	0.000
	#DIV/0!
	#DIV/0!

Quality Control

Form 5a Matrix Spike

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : NA
 Lab Sample ID : L2539898-04
 Matrix Spike : WG2083987-3
 Matrix Spike Dup :

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Matrix : WATER
 MS Analysis Date : 06/26/25 17:01
 MSD Analysis Date :

Parameter	Sample Conc. (mg/l)	Matrix Spike Sample		%R	Matrix Spike Duplicate		%R	RPD	Recovery Limits	RPD Limit
		Spike Added (mg/l)	Spike Conc. (mg/l)		Spike Added (mg/l)	Spike Conc. (mg/l)				
Bromide	ND	0.4	0.376	94					90-110	20

Form 5a Matrix Spike

Client : Roux Env. Eng. & Geology, DPC
Project Name : CORAM MATERIALS
Client Sample ID : MW-12D
Lab Sample ID : L2538382-06
Matrix Spike : WG2083987-5
Matrix Spike Dup : WG2083987-6

Lab Number : L2538382
Project Number : 2232.0006Y005
Matrix : WATER
MS Analysis Date : 06/26/25 22:03
MSD Analysis Date : 06/26/25 22:15

Parameter	Sample Conc. (mg/l)	Matrix Spike Sample			%R	Matrix Spike Duplicate			RPD	Recovery Limits	RPD Limit	
		Spike Added (mg/l)	Spike Conc. (mg/l)			Spike Added (mg/l)	Spike Conc. (mg/l)					
Bromide	0.069	0.4	0.394	80	Q	0.4	0.394	80	Q	0	90-110	20



Form 6 Lab Duplicates

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2538382
Project Name	: CORAM MATERIALS	Project Number	: 2232.0006Y005
Client Sample ID	: NA	Matrix	: WATER
Lab Sample ID	: NA	Analysis Date	: 06/26/25 17:25
Dup Sample ID	: WG2083987-4	DUP Analysis Date	: 06/26/25 17:13

Parameter	Sample Concentration (mg/l)	Duplicate Concentration (mg/l)	RPD	RPD Limit
Bromide	ND	ND	NC	20



Form 7

Laboratory Control Sample

Client : Roux Env. Eng. & Geology, DPC
 Project Name : CORAM MATERIALS
 Client Sample ID : NA
 Lab Sample ID : WG2083987-2
 Dup Sample ID :

Lab Number : L2538382
 Project Number : 2232.0006Y005
 Matrix : WATER
 LCS Analysis Date : 06/26/25 15:12
 LCSD Analysis Date :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (mg/l)	Found (mg/l)	%R	True (mg/l)	Found (mg/l)	%R			
Bromide	0.800	0.752	94.					90-110	20



Date Created: 11/11/21
Created By: Jason Hebert
File: PM11467-1
Page: 1

WETCHEM (WATER)

[illegible]

Please Note that the RL Information provided in this table is calculated using a 100% Solids factor. (Soll/Solids only)
Please Note that the Information provided in this table is subject to change at anytime at the discretion of the laboratory.

Calculations of Anions by Ion Chromatography

Aqueous samples:

The Dionex calculates the area of the peaks produced by the instrument, compares them to the peak area of the calibration standard stored in its memory, and calculates result in mg/L.

If the sample was manually diluted prior to analysis, the calculated mean must be manually multiplied by the dilution factor. The Reported Detection Limit is also multiplied by the same dilution factor.

$$\text{Result, mg/L} = \frac{\text{area} - \text{y-intercept}}{\text{slope}} \times \text{Dilution Factor}$$

Subcontracted Data



June 25, 2025

Reports
Pace - West Borough
8 Walkup Drive
Westborough, MA 01581

RE: Project: L2538382
Pace Project No.: 70362344

Dear Reports:

Enclosed are the analytical results for sample(s) received by the laboratory on June 20, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Brianna Rivera".

Brianna D. Rivera
brianna.rivera@pacelabs.com
516-370-6007
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: L2538382

Pace Project No.: 70362344

Pace Analytical Services, LLC - Melville, NY

575 Broad Hollow Rd, Melville, NY 11747

Connecticut Certification #: PH-0435

Delaware Certification # NY 10478

Maryland Certification #: 208

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

New Jersey Certification #: NY158

New York Certification #: 10478 Primary Accrediting Body

Pennsylvania Certification #: 68-00350

Rhode Island Certification #: LAO00340

Texas Certification #: T104704582

Florida Certification #: E871198

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SAMPLE SUMMARY

Project: L2538382

Pace Project No.: 70362344

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70362344001	MW-8S	Water	06/18/25 09:00	06/20/25 06:00
70362344002	MW-8D	Water	06/18/25 09:05	06/20/25 06:00
70362344003	MW-5D	Water	06/18/25 10:30	06/20/25 06:00
70362344004	PZ-5	Water	06/18/25 10:45	06/20/25 06:00
70362344005	MW-12S	Water	06/18/25 13:20	06/20/25 06:00
70362344006	MW-12D	Water	06/18/25 13:22	06/20/25 06:00
70362344007	DUP_06182025	Water	06/18/25 12:00	06/20/25 06:00

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SAMPLE ANALYTE COUNT

Project: L2538382

Pace Project No.: 70362344

Lab ID	Sample ID	Method	Analysts	Analytes Reported
70362344001	MW-8S	SM 4500-S2 F-2011	GEL	1
70362344002	MW-8D	SM 4500-S2 F-2011	GEL	1
70362344003	MW-5D	SM 4500-S2 F-2011	GEL	1
70362344004	PZ-5	SM 4500-S2 F-2011	GEL	1
70362344005	MW-12S	SM 4500-S2 F-2011	GEL	1
70362344006	MW-12D	SM 4500-S2 F-2011	GEL	1
70362344007	DUP_06182025	SM 4500-S2 F-2011	GEL	1

PACE-MV = Pace Analytical Services - Melville

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ANALYTICAL RESULTS

Project: L2538382

Pace Project No.: 70362344

Sample: MW-8S		Lab ID: 70362344001		Collected: 06/18/25 09:00		Received: 06/20/25 06:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric		Analytical Method: SM 4500-S2 F-2011 Pace Analytical Services - Melville							
Sulfide	<2.0	mg/L	2.0	0.20	1		06/25/25 14:10		

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ANALYTICAL RESULTS

Project: L2538382

Pace Project No.: 70362344

Sample: MW-8D		Lab ID: 70362344002		Collected: 06/18/25 09:05		Received: 06/20/25 06:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric		Analytical Method: SM 4500-S2 F-2011 Pace Analytical Services - Melville							
Sulfide	<2.0	mg/L	2.0	0.20	1		06/25/25 14:15		

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ANALYTICAL RESULTS

Project: L2538382

Pace Project No.: 70362344

Sample: MW-5D		Lab ID: 70362344003		Collected: 06/18/25 10:30		Received: 06/20/25 06:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric		Analytical Method: SM 4500-S2 F-2011 Pace Analytical Services - Melville							
Sulfide	<2.0	mg/L	2.0	0.20	1		06/25/25 14:22		

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ANALYTICAL RESULTS

Project: L2538382

Pace Project No.: 70362344

Sample: PZ-5		Lab ID: 70362344004		Collected: 06/18/25 10:45		Received: 06/20/25 06:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric		Analytical Method: SM 4500-S2 F-2011 Pace Analytical Services - Melville							
Sulfide	<2.0	mg/L	2.0	0.20	1		06/25/25 14:57		

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ANALYTICAL RESULTS

Project: L2538382

Pace Project No.: 70362344

Sample: MW-12S		Lab ID: 70362344005		Collected: 06/18/25 13:20		Received: 06/20/25 06:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric		Analytical Method: SM 4500-S2 F-2011 Pace Analytical Services - Melville							
Sulfide	<2.0	mg/L	2.0	0.20	1		06/25/25 15:05		

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ANALYTICAL RESULTS

Project: L2538382

Pace Project No.: 70362344

Sample: MW-12D		Lab ID: 70362344006		Collected: 06/18/25 13:22		Received: 06/20/25 06:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric		Analytical Method: SM 4500-S2 F-2011 Pace Analytical Services - Melville							
Sulfide	<2.0	mg/L	2.0	0.20	1		06/25/25 15:11		M1

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ANALYTICAL RESULTS

Project: L2538382

Pace Project No.: 70362344

Sample: DUP_06182025		Lab ID: 70362344007		Collected: 06/18/25 12:00		Received: 06/20/25 06:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric		Analytical Method: SM 4500-S2 F-2011 Pace Analytical Services - Melville							
Sulfide	<2.0	mg/L	2.0	0.20	1		06/25/25 15:30		

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QUALITY CONTROL DATA

Project: L2538382

Pace Project No.: 70362344

QC Batch:	406223	Analysis Method:	SM 4500-S2 F-2011
QC Batch Method:	SM 4500-S2 F-2011	Analysis Description:	4500S2F W Sulfide Iodometric
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70362344001, 70362344002, 70362344003, 70362344004, 70362344005, 70362344006, 70362344007

METHOD BLANK:	2150349	Matrix:	Water
---------------	---------	---------	-------

Associated Lab Samples: 70362344001, 70362344002, 70362344003, 70362344004, 70362344005, 70362344006, 70362344007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	2.0	0.20	06/25/25 15:56	

LABORATORY CONTROL SAMPLE: 2150350

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	14	14.0	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2150351 2150352

Parameter	Units	70362344006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	<2.0	11.2	11.2	<2.0	<2.0	-1	-1	70-130		20	M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: L2538382
Pace Project No.: 70362344

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L2538382

Pace Project No.: 70362344

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70362344001	MW-8S	SM 4500-S2 F-2011	406223		
70362344002	MW-8D	SM 4500-S2 F-2011	406223		
70362344003	MW-5D	SM 4500-S2 F-2011	406223		
70362344004	PZ-5	SM 4500-S2 F-2011	406223		
70362344005	MW-12S	SM 4500-S2 F-2011	406223		
70362344006	MW-12D	SM 4500-S2 F-2011	406223		
70362344007	DUP_06182025	SM 4500-S2 F-2011	406223		

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A

WO#: 70362344



70362344

Subcontract Chain of Custody

Pace Analytical (Melville)
575 Broad Hollow Road
Melville, NY 11747

Pace Job Number
L2538382

Page 1

Client Information				Project Information			Regulatory Requirements/Report Limits		
Client: Pace Analytical Labs Address: Eight Walkup Drive Westborough, MA 01581-1019 Report To: west.subreports@pacelabs.com Bill To: invoices@pacelabs.couponhost.com Phone: 716.427.5228 Email: Jennifer.Byrnes@pacelabs.com				Project Location: NY Project Manager: Jennifer Byrnes			State/Federal Program: Regulatory Criteria:		
				Turnaround & Deliverables Information					
				Due Date: Deliverables: Subcontract - Data Deliverable Package			Report to MDL		
Project Specific Requirements and/or Report Requirements									
Reference following Pace Job Number on final report/deliverables: L2538382 Report to include Method and/or Regulatory required batch QC									
Additional Comments: REPORT TO MDL, ASP B Package TAT= 1-2 Days after final report per Mike Miller", needs NYSDEC Equis EDD									
Lab ID	Pace ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Sample Level Comments	Sample Specific QC	Container Count	
L2538382-01	MW-8S		06-18-25 09:00	WATER	Sulfide			2	
L2538382-02	MW-8D		06-18-25 09:05	WATER	Sulfide			2	
L2538382-03	MW-5D		06-18-25 10:30	WATER	Sulfide			2	
L2538382-04	PZ-5		06-18-25 10:45	WATER	Sulfide			2	
L2538382-05	MW-12S		06-18-25 13:20	WATER	Sulfide		MS,MSD	2	
L2538382-06	MW-12D		06-18-25 13:22	WATER	Sulfide			6	
L2538382-07	DUP_06182025		06-18-25 12:00	WATER	Sulfide			2	
Relinquished By:			Date/Time:			Received By:			Date/Time:
			06/25/17 17:21						06/19/17 17:21
			06/25/17 17:21						06/20/17 17:21
Form No: AL_subcoc									

Effective Date: 4/12/2024

Client Name:

ALPHA

Project #

WO#: 70362344

PM: BDR

Due Date: 06/27/25

CLIENT: ALPHA

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☒ No Temperature Blank Present: ☐ Yes ☒ NoPacking Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☐ None ☐ Other Type of Ice: ☒ Wet ☐ Blue ☐ NoneThermometer Used: HygCorrection Factor: R-2☐ Samples on ice, cooling process has begunCooler Temperature(°C): 0.4Cooler Temperature Corrected(°C): 0.6

Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☒ N/A, water sample)Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ Yes ☐ NoDid samples originate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.

Date and Initials of person examining contents: 6/20/25 CT

	COMMENTS:
Chain of Custody Present: ☒ Yes ☐ No	1.
Chain of Custody Filled Out: ☒ Yes ☐ No	2.
Chain of Custody Relinquished: ☒ Yes ☐ No	3.
Sampler Name & Signature on COC: ☒ Yes ☐ No ☐ N/A	4.
Samples Arrived within Hold Time: ☒ Yes ☐ No	5.
Short Hold Time Analysis (<72hr): ☐ Yes ☒ No	6.
Rush Turn Around Time Requested: ☐ Yes ☒ No	7.
Sufficient Volume: (Triple volume provided for MS/MSD) ☒ Yes ☐ No	8.
Correct Containers Used: ☒ Yes ☐ No	9.
-Pace Containers Used: ☒ Yes ☐ No	
Containers Intact: ☒ Yes ☐ No	10.
Filtered volume received for Dissolved tests ☐ Yes ☐ No ☒ N/A	11. Note: if sediment is visible in the dissolved container.
Sample Labels match COC: ☒ Yes ☐ No	12.
-Includes date/time/ID/Analysis Matrix: ☒ SL ☐ WT ☐ OIL ☐ OTHER	

Date and Initials of person checking preservation: 6/20/25 CT

All containers needing preservation have been ☒ Yes ☐ No ☐ N/A	13. ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ NaOH ☐ HCl
pH paper Lot # <u>23124</u>	Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH>9 Sulfide, ☒ Yes ☐ No ☐ N/A	
NAOH>12 Cyanide)	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water).	Initial when completed: Lot # of added preservative: Date/Time preservative added:
Per Method, VOA pH is checked after analysis	
Samples checked for dechlorination: ☐ Yes ☐ No ☒ N/A	14.
KI starch test strips Lot #	Positive for Res. Chlorine? Y N
Residual chlorine strips Lot #	
SM 4500 CN samples checked for sulf ☐ Yes ☐ No ☒ N/A	15.
Lead Acetate Strips Lot #	Positive for Sulfide? Y N
Headspace in ALK Bottle (>6mm): ☐ Yes ☐ No ☒ N/A	
Headspace in VOA Vials (>6mm): ☐ Yes ☐ No ☒ N/A	16.
Trip Blank Present: ☐ Yes ☐ No ☒ N/A	
Trip Blank Custody Seals Present ☐ Yes ☐ No ☒ N/A	17.

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

* PM (Project Manager) review (which includes the SCUR) is documented electronically in LIMS.



July 01, 2025

Jennifer Byrnes
Pace MA
Eight Walkup Drive
Westborough, MA 01581

RE: Project: L2538382
Pace Project No.: 50405253

Dear Jennifer Byrnes:

Enclosed are the analytical results for sample(s) received by the laboratory on June 20, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tina Sayer
tina.sayer@pacelabs.com
(317)228-3127
Project Manager

Enclosures

cc: Pace MA, Pace MA



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: L2538382
Pace Project No.: 50405253

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Louisiana Certification #: 04076

Michigan Drinking Water Laboratory #9050
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Washington Dept of Ecology #: C1081
Wisconsin Laboratory #: 999788130
USDA Foreign Soil Permit #: 525-23-13-23119
USDA Compliance Agreement #: IN-SL-22-001

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SAMPLE SUMMARY

Project: L2538382

Pace Project No.: 50405253

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50405253001	MW-8S	Water	06/18/25 09:00	06/20/25 08:30
50405253002	MW-8D	Water	06/18/25 09:05	06/20/25 08:30
50405253003	MW-5D	Water	06/18/25 10:30	06/20/25 08:30
50405253004	PZ-5	Water	06/18/25 10:45	06/20/25 08:30
50405253005	MW-12S	Water	06/18/25 13:20	06/20/25 08:30
50405253006	MW-12D	Water	06/18/25 13:22	06/20/25 08:30
50405253007	DUP_06182025	Water	06/18/25 12:00	06/20/25 08:30

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SAMPLE ANALYTE COUNT

Project: L2538382

Pace Project No.: 50405253

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50405253001	MW-8S	EPA 9056	MTW	1
50405253002	MW-8D	EPA 9056	MTW	1
50405253003	MW-5D	EPA 9056	MTW	1
50405253004	PZ-5	EPA 9056	MTW	1
50405253005	MW-12S	EPA 9056	MTW	1
50405253006	MW-12D	EPA 9056	MTW	1
50405253007	DUP_06182025	EPA 9056	MTW	1

PASI-I = Pace Analytical Services - Indianapolis

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ANALYTICAL RESULTS

Project: L2538382

Pace Project No.: 50405253

Sample: MW-8S		Lab ID: 50405253001		Collected: 06/18/25 09:00		Received: 06/20/25 08:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Iodide	ND	mg/L	0.50	0.15	1		06/28/25 19:46		

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ANALYTICAL RESULTS

Project: L2538382

Pace Project No.: 50405253

Sample: MW-8D		Lab ID: 50405253002		Collected: 06/18/25 09:05		Received: 06/20/25 08:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Iodide	ND	mg/L	0.50	0.15	1		06/28/25 20:06		

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ANALYTICAL RESULTS

Project: L2538382

Pace Project No.: 50405253

Sample: MW-5D		Lab ID: 50405253003		Collected: 06/18/25 10:30		Received: 06/20/25 08:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Iodide	ND	mg/L	0.50	0.15	1		06/28/25 20:25		

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ANALYTICAL RESULTS

Project: L2538382

Pace Project No.: 50405253

Sample: PZ-5		Lab ID: 50405253004		Collected: 06/18/25 10:45		Received: 06/20/25 08:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Iodide	ND	mg/L	0.50	0.15	1		06/28/25 20:44		

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ANALYTICAL RESULTS

Project: L2538382

Pace Project No.: 50405253

Sample: MW-12S		Lab ID: 50405253005		Collected: 06/18/25 13:20		Received: 06/20/25 08:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Iodide	ND	mg/L	0.50	0.15	1		06/28/25 21:03		

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ANALYTICAL RESULTS

Project: L2538382

Pace Project No.: 50405253

Sample: MW-12D		Lab ID: 50405253006		Collected: 06/18/25 13:22		Received: 06/20/25 08:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Iodide	ND	mg/L	0.50	0.15	1		06/28/25 21:23		

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ANALYTICAL RESULTS

Project: L2538382

Pace Project No.: 50405253

Sample: DUP_06182025		Lab ID: 50405253007		Collected: 06/18/25 12:00		Received: 06/20/25 08:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Iodide	ND	mg/L	0.50	0.15	1		06/28/25 22:59		

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QUALITY CONTROL DATA

Project: L2538382

Pace Project No.: 50405253

QC Batch:	851349	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 Iodide by IC
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50405253001, 50405253002, 50405253003, 50405253004, 50405253005, 50405253006, 50405253007

METHOD BLANK: 3899525 Matrix: Water

Associated Lab Samples: 50405253001, 50405253002, 50405253003, 50405253004, 50405253005, 50405253006, 50405253007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iodide	mg/L	ND	0.50	0.15	06/29/25 01:14	

LABORATORY CONTROL SAMPLE: 3899526

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iodide	mg/L	5	5.1	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3899527 3899528

Parameter	Units	50405253006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iodide	mg/L	ND	5	5	4.6	4.5	91	91	80-120	1	15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: L2538382

Pace Project No.: 50405253

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L2538382

Pace Project No.: 50405253

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50405253001	MW-8S	EPA 9056	851349		
50405253002	MW-8D	EPA 9056	851349		
50405253003	MW-5D	EPA 9056	851349		
50405253004	PZ-5	EPA 9056	851349		
50405253005	MW-12S	EPA 9056	851349		
50405253006	MW-12D	EPA 9056	851349		
50405253007	DUP_06182025	EPA 9056	851349		

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WO# : 50405253



50405253

Page 1

		Subcontract Chain of Custody Pace Analytical (Indianapolis, IN) 7726 Moller Road Indianapolis, IN 46268						
Client Information Client: Pace Analytical Labs Address: Eight Walkup Drive Westborough, MA 01581-1019 Report To: west.subreports@pacelabs.com Bill To: invoices@pacelabs.coupahost.com Phone: 716.427.5228 Email: Jennifer.Byrnes@pacelabs.com		Project Information Project Location: NY Project Manager: Jennifer Byrnes		Regulatory Requirements/Report Limits State/Federal Program: Regulatory Criteria: Report to MDL				
		Turnaround & Deliverables Information Due Date: Deliverables: Subcontract - Data Deliverable Package						
Project Specific Requirements and/or Report Requirements								
Reference following Pace Job Number on final report/deliverables: L2538382 Report to include Method and/or Regulatory required batch QC								
Additional Comments: Profile # 11706: needs L4 and EDD 265 NY EQUIS								
Lab ID	Pace ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Sample Level Comments	Sample Specific QC	Container Count
	L2538382-01 L2538382-02 L2538382-03 L2538382-04 L2538382-05 L2538382-06 L2538382-07	MW-8S MW-8D MW-5D PZ-5 MW-12S MW-12D DUP_06182025	06-18-25 09:00 06-18-25 09:05 06-18-25 10:30 06-18-25 10:45 06-18-25 13:20 06-18-25 13:22 06-18-25 12:00	WATER WATER WATER WATER WATER WATER WATER	Iodide EPA 9056 Iodide EPA 9056 Iodide EPA 9056 Iodide EPA 9056 Iodide EPA 9056 Iodide EPA 9056 Iodide EPA 9056		MS,MSD	1 1 1 1 1 3 1
Relinquished By:			Date/Time:		Received By:		Date/Time:	
 C. G. Goleau					 Felix			
Felix			06/20/25 0830		 Maria Vintola		06/20/25 0830	
Form No: AL_subcoc								



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 6/20/25 1539-MDW

1. <u>Thermometer:</u> 1 2 3 4 5 6 7 8 9 <u>A B C D E F G H I</u>		3. <u>Packing Material:</u> Bubble Wrap Bubble Bags None Other _____	
2. <u>Cooler Temperature(s):</u> <u>2.2/2.0</u> <u> </u> <u> </u> <u> </u> (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)		4. <u>Ice Type:</u> Wet Blue None	
3. Was the PM notified of out of temp cooler?: (leave blank if samples are in temp) Yes No		5. <u>Courier:</u> Fed Ex UPS Client Pace Now/Jett Other	
Cooler temp should be above freezing to 6°C If the PM was contacted in the comments below please write how they instructed the project to proceed		6. <u>Custody Seal on Cooler/Box Present:</u> Yes No (If yes)Seals Intact: Yes No (leave blank if no seals were present)	

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		☒	All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl. Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			
Short Hold Time Analysis (48 hours or less)? Analysis:		☒				☒
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine Check (SVOC 625 Pest/PCB 608)	<u>Present</u>	<u>Absent</u>	<u>N/A</u>
Rush TAT Requested (4 days or less):		☒	Residual Chlorine Check (Total/Amenable/Free Cyanide)			☒
Custody Signatures Present?	☒		Headspace in VOA Vials (>6mm): See Container Count form for details	<u>Present</u>	<u>Absent</u>	No VOA Vials Sent
Containers Intact?:	☒		Trip Blank Present?		☒	
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	☒		Trip Blank Custody Seals?:			☒
Comments:			Extra labels on Terracore Vials? (soils only)			

Sample Container Count

** Place a PINK dot on containers
that are out of conformance.**

COC Line Item	WG <u>F</u> U	WG <u>K</u> U	BG <u>1</u> U	MeOH (99%)	VOA VIAL HS (≥6mm)	VG <u>9</u> H	VG <u>9</u> U	VG <u>9</u> T	AMBER GLASS							PLASTIC							OTHER				Matrix	Nitric Red	Sulfuric Yellow	Sodium Hydroxide Green	Sodium Hydroxide ZnAc Black																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
				SBS					AG <u>0</u> U	AG <u>1</u> H	AG <u>1</u> U	AG <u>3</u> U	AG <u>3</u> S	AG <u>3</u> SF	AG <u>3</u> B	BP <u>1</u> U	BP <u>1</u> N	BP <u>2</u> U	BP <u>3</u> U	BP <u>3</u> N	BP <u>3</u> F	BP <u>3</u> S	BP <u>3</u> B	BP <u>3</u> Z	CG <u>3</u> H	CG <u>3</u> F						Syringe Kit																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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Container Codes

Glass				Plastic			
DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic	NT3U	Non Teflon 250mL unpreserved plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic	BP4U	125mL unpreserved plastic
DG9S	40mL H2SO4 amber vial	CG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic	BP4N	125mL HNO3 plastic
DG9T	40mL Na Thio amber vial	CG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic	BP4S	125mL H2SO4 plastic
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac	Miscellaneous	
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic		
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic	Syringe Kit	LL Cr+6 sampling kit
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic	ZPLC	Ziploc Bag
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic	R	Terracore Kit
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac	SP5T	120mL Coliform Sodium Thiosulfate
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic	GN	General Container
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic	U	Summa Can (air sample)
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered	WT	Water
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic	SL	Solid
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic	OL	Oil
BG1S	1L H2SO4 clear glass	AG3B	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic	NAL	Non-aqueous liquid
						WP	Wipe

Laboratory Report

Report prepared for:

Jennifer Byrnes
Pace Analytical Services, LLC
8 Walkup Drive
Westborough, MA 01581

Email: jennifer.byrnes@pacelabs.com, west.subreports@pacelabs.com

Report prepared by:

Debbie S Robertson

Purchase Order:**For further assistance, contact:**

Debbie S Robertson
Report Production Coordinator
2323 Sycamore Dr
Knoxville, TN 37921
(865) 546-1335
debbierobertson@galbraith.com

Sample: MW-8S L2538382		Received: 2025-06-20			
Lab ID: 2025-W-1871					
Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	213.14 mg	2025-06-30

Sample: MW-8D L2538382		Received: 2025-06-20			
Lab ID: 2025-W-1872					
Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	212.69 mg	2025-06-30

Sample: MW-5D L2538382		Received: 2025-06-20			
Lab ID: 2025-W-1873					
Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	212.30 mg	2025-06-30

Sample: PZ-5 L2538382		Received: 2025-06-20			
Lab ID: 2025-W-1874					
Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	212.71 mg	2025-06-30

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Reported results are only applicable to the item tested.

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Sample: MW-12S L2538382		Received: 2025-06-20			
Lab ID: 2025-W-1875					
Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	212.63 mg	2025-06-30

Sample: MW-12D L2538382		Received: 2025-06-20			
Lab ID: 2025-W-1876					
Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	212.63 mg	2025-06-30

Sample: MW-12D +MS L2538382		Received: 2025-06-20			
Lab ID: 2025-W-1877					
Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	212.75 mg	2025-06-30

Sample: MW-12D +SD L2538382		Received: 2025-06-20			
Lab ID: 2025-W-1878					
Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	212.40 mg	2025-06-30

Sample: DUP_06182025 L2538382		Received: 2025-06-20			
Lab ID: 2025-W-1879					
Analysis	Method	Result	Basis	Sample Amount Used	Date (Time)
711: Ammonium					
	GLI Procedure ME-4D	< 5 ppm	As Received	212.99 mg	2025-06-30

Signatures:

Published By: Debbie.S.Robertson
Created By: Debbie.S.Robertson

2025-07-02T20:05:35.63-04:00
2025-07-02T20:05:15.317-04:00

- Physical signatures are on file.
- "Published By" signature indicates authorized release of data.



Analytical Data Package

Prepared by:

Pace Analytical Services

Pace Project No.: 70362344

Table Of Contents



Project Overview

Final Report with COC/SCUR	1
Certifications	2
Sample Summary	3
Sample Analyte Count	4
Project Narrative	5
Analytical Results	6
Quality Control Data	13
Qualifiers	14
Quality Control Data Cross Reference Table	15
Chain of Custody	16

InOrganic

Wet Chemistry

Analytical Results (Form 1-IN)	19
Blanks (Form 3-IN)	26
Matrix Spike Recovery (Form 5A-IN)	27
Duplicates (Form 6-IN)	29
Laboratory Control Spike (Form 7-IN)	30
Preparation Log (Form 12-IN)	31
Analysis Run Log (Form 13-IN)	32
Preparation Logs Raw Data	33



July 31, 2025

Reports
Pace - West Borough
8 Walkup Drive
Westborough, MA 01581

RE: Project: L2538382
Pace Project No.: 70362344

Dear Reports:

Enclosed are the analytical results for sample(s) received by the laboratory on June 20, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Brianna D. Rivera
brianna.rivera@pacelabs.com
516-370-6007
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: L2538382

Pace Project No.: 70362344

Pace Analytical Services, LLC - Melville, NY

575 Broad Hollow Rd, Melville, NY 11747

Connecticut Certification #: PH-0435

Delaware Certification # NY 10478

Maryland Certification #: 208

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

New Jersey Certification #: NY158

New York Certification #: 10478 Primary Accrediting Body

Pennsylvania Certification #: 68-00350

Rhode Island Certification #: LAO00340

Texas Certification #: T104704582

Florida Certification #: E871198

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SAMPLE SUMMARY

Project: L2538382

Pace Project No.: 70362344

Lab ID	Sample ID	Matrix	Date Collected	Date Received
70362344001	MW-8S	Water	06/18/25 09:00	06/20/25 06:00
70362344002	MW-8D	Water	06/18/25 09:05	06/20/25 06:00
70362344003	MW-5D	Water	06/18/25 10:30	06/20/25 06:00
70362344004	PZ-5	Water	06/18/25 10:45	06/20/25 06:00
70362344005	MW-12S	Water	06/18/25 13:20	06/20/25 06:00
70362344006	MW-12D	Water	06/18/25 13:22	06/20/25 06:00
70362344007	DUP_06182025	Water	06/18/25 12:00	06/20/25 06:00

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SAMPLE ANALYTE COUNT

Project: L2538382

Pace Project No.: 70362344

Lab ID	Sample ID	Method	Analysts	Analytes Reported
70362344001	MW-8S	SM 4500-S2 F-2011	GEL	1
70362344002	MW-8D	SM 4500-S2 F-2011	GEL	1
70362344003	MW-5D	SM 4500-S2 F-2011	GEL	1
70362344004	PZ-5	SM 4500-S2 F-2011	GEL	1
70362344005	MW-12S	SM 4500-S2 F-2011	GEL	1
70362344006	MW-12D	SM 4500-S2 F-2011	GEL	1
70362344007	DUP_06182025	SM 4500-S2 F-2011	GEL	1

PACE-MV = Pace Analytical Services - Melville

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: L2538382
Pace Project No.: 70362344

Method: SM 4500-S2 F-2011
Description: 4500S2F W Sulfide Iodometric
Client: Pace Westborough
Date: July 31, 2025

General Information:

7 samples were analyzed for SM 4500-S2 F-2011 by Pace Analytical Services Melville. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 406223

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 70362344006

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 2150351)
 - Sulfide
- MSD (Lab ID: 2150352)
 - Sulfide

Additional Comments:

Batch Comments:

Batch MS and MSD (2150351 and 3150352) were not spiked.

- QC Batch: 406223

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: L2538382

Pace Project No.: 70362344

Sample: MW-8S		Lab ID: 70362344001		Collected: 06/18/25 09:00		Received: 06/20/25 06:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric		Analytical Method: SM 4500-S2 F-2011 Pace Analytical Services - Melville							
Sulfide	<2.0	mg/L	2.0	0.20	1		06/25/25 14:10		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: L2538382

Pace Project No.: 70362344

Sample: MW-8D		Lab ID: 70362344002		Collected: 06/18/25 09:05		Received: 06/20/25 06:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric		Analytical Method: SM 4500-S2 F-2011 Pace Analytical Services - Melville							
Sulfide	<2.0	mg/L	2.0	0.20	1		06/25/25 14:15		

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ANALYTICAL RESULTS

Project: L2538382

Pace Project No.: 70362344

Sample: MW-5D		Lab ID: 70362344003		Collected: 06/18/25 10:30		Received: 06/20/25 06:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric		Analytical Method: SM 4500-S2 F-2011 Pace Analytical Services - Melville							
Sulfide	<2.0	mg/L	2.0	0.20	1		06/25/25 14:22		

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ANALYTICAL RESULTS

Project: L2538382

Pace Project No.: 70362344

Sample: PZ-5		Lab ID: 70362344004		Collected: 06/18/25 10:45		Received: 06/20/25 06:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric		Analytical Method: SM 4500-S2 F-2011 Pace Analytical Services - Melville							
Sulfide	<2.0	mg/L	2.0	0.20	1		06/25/25 14:57		

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ANALYTICAL RESULTS

Project: L2538382

Pace Project No.: 70362344

Sample: MW-12S		Lab ID: 70362344005		Collected: 06/18/25 13:20		Received: 06/20/25 06:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric		Analytical Method: SM 4500-S2 F-2011 Pace Analytical Services - Melville							
Sulfide	<2.0	mg/L	2.0	0.20	1		06/25/25 15:05		

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ANALYTICAL RESULTS

Project: L2538382

Pace Project No.: 70362344

Sample: MW-12D		Lab ID: 70362344006		Collected: 06/18/25 13:22		Received: 06/20/25 06:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric		Analytical Method: SM 4500-S2 F-2011 Pace Analytical Services - Melville							
Sulfide	<2.0	mg/L	2.0	0.20	1		06/25/25 15:11		M1

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ANALYTICAL RESULTS

Project: L2538382

Pace Project No.: 70362344

Sample: DUP_06182025		Lab ID: 70362344007		Collected: 06/18/25 12:00		Received: 06/20/25 06:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
4500S2F W Sulfide Iodometric		Analytical Method: SM 4500-S2 F-2011 Pace Analytical Services - Melville							
Sulfide	<2.0	mg/L	2.0	0.20	1		06/25/25 15:30		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: L2538382

Pace Project No.: 70362344

QC Batch:	406223	Analysis Method:	SM 4500-S2 F-2011
QC Batch Method:	SM 4500-S2 F-2011	Analysis Description:	4500S2F W Sulfide Iodometric
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70362344001, 70362344002, 70362344003, 70362344004, 70362344005, 70362344006, 70362344007

METHOD BLANK:	2150349	Matrix:	Water
---------------	---------	---------	-------

Associated Lab Samples: 70362344001, 70362344002, 70362344003, 70362344004, 70362344005, 70362344006, 70362344007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	2.0	0.20	06/25/25 13:56	

LABORATORY CONTROL SAMPLE: 2150350

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	14	14.0	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2150351 2150352

Parameter	Units	70362344006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	<2.0	11.2	11.2	<2.0	<2.0	-1	-1	70-130		20	M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: L2538382

Pace Project No.: 70362344

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 406223

[1] Batch MS and MSD (2150351 and 3150352) were not spiked.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L2538382

Pace Project No.: 70362344

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70362344001	MW-8S	SM 4500-S2 F-2011	406223		
70362344002	MW-8D	SM 4500-S2 F-2011	406223		
70362344003	MW-5D	SM 4500-S2 F-2011	406223		
70362344004	PZ-5	SM 4500-S2 F-2011	406223		
70362344005	MW-12S	SM 4500-S2 F-2011	406223		
70362344006	MW-12D	SM 4500-S2 F-2011	406223		
70362344007	DUP_06182025	SM 4500-S2 F-2011	406223		

REPORT OF LABORATORY ANALYSIS

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A

WO#: 70362344



70362344

Subcontract Chain of Custody

Pace Analytical (Melville)
575 Broad Hollow Road
Melville, NY 11747

Pace Job Number
L2538382

Page 1

Client Information				Project Information			Regulatory Requirements/Report Limits		
Client: Pace Analytical Labs Address: Eight Walkup Drive Westborough, MA 01581-1019 Report To: west.subreports@pacelabs.com Bill To: invoices@pacelabs.couponhost.com Phone: 716.427.5228 Email: Jennifer.Byrnes@pacelabs.com				Project Location: NY Project Manager: Jennifer Byrnes			State/Federal Program: Regulatory Criteria:		
				Turnaround & Deliverables Information					
				Due Date: Deliverables: Subcontract - Data Deliverable Package			Report to MDL		
Project Specific Requirements and/or Report Requirements									
Reference following Pace Job Number on final report/deliverables: L2538382 Report to include Method and/or Regulatory required batch QC									
Additional Comments: REPORT TO MDL, ASP B Package TAT= 1-2 Days after final report per Mike Miller", needs NYSDEC Equis EDD									
Lab ID	Pace ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Sample Level Comments	Sample Specific QC	Container Count	
L2538382-01	MW-8S		06-18-25 09:00	WATER	Sulfide			2	
L2538382-02	MW-8D		06-18-25 09:05	WATER	Sulfide			2	
L2538382-03	MW-5D		06-18-25 10:30	WATER	Sulfide			2	
L2538382-04	PZ-5		06-18-25 10:45	WATER	Sulfide			2	
L2538382-05	MW-12S		06-18-25 13:20	WATER	Sulfide		MS,MSD	2	
L2538382-06	MW-12D		06-18-25 13:22	WATER	Sulfide			6	
L2538382-07	DUP_06182025		06-18-25 12:00	WATER	Sulfide			2	
Relinquished By:			Date/Time:			Received By:			Date/Time:
			06/25/17 12:11						06/19/17
			06/25/17 12:11						06/20/17 6:00
Form No: AL_subcoc									

Effective Date: 4/12/2024

Client Name:

ALPHA

Project #

WO#: 70362344

PM: BDR

Due Date: 06/27/25

CLIENT: ALPHA

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace ☐ Other

Tracking #:

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☒ No Temperature Blank Present: ☐ Yes ☒ NoPacking Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☐ None ☐ Other Type of Ice: ☒ Wet ☐ Blue ☐ NoneThermometer Used: HygCorrection Factor: R-2☐ Samples on ice, cooling process has begunCooler Temperature(°C): 0.4Cooler Temperature Corrected(°C): 0.6

Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☒ N/A, water sample)Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ Yes ☐ NoDid samples originate from a foreign source including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MELV-0076) and include with SCUR/COC paperwork.

Date and Initials of person examining contents: 6/20/25 CT

	COMMENTS:
Chain of Custody Present: ☒ Yes ☐ No	1.
Chain of Custody Filled Out: ☒ Yes ☐ No	2.
Chain of Custody Relinquished: ☒ Yes ☐ No	3.
Sampler Name & Signature on COC: ☒ Yes ☐ No ☐ N/A	4.
Samples Arrived within Hold Time: ☒ Yes ☐ No	5.
Short Hold Time Analysis (<72hr): ☐ Yes ☒ No	6.
Rush Turn Around Time Requested: ☐ Yes ☒ No	7.
Sufficient Volume: (Triple volume provided for MS/MSD) ☒ Yes ☐ No	8.
Correct Containers Used: ☒ Yes ☐ No	9.
-Pace Containers Used: ☒ Yes ☐ No	
Containers Intact: ☒ Yes ☐ No	10.
Filtered volume received for Dissolved tests ☐ Yes ☐ No ☒ N/A	11. Note: if sediment is visible in the dissolved container.
Sample Labels match COC: ☒ Yes ☐ No	12.
-Includes date/time/ID/Analysis Matrix: ☒ SL ☐ WT ☐ OIL ☐ OTHER	

Date and Initials of person checking preservation: 6/20/25 CT

All containers needing preservation have been ☒ Yes ☐ No ☐ N/A	13. ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ NaOH ☐ HCl
pH paper Lot # <u>23124</u>	Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH>9 Sulfide, ☒ Yes ☐ No ☐ N/A	
NAOH>12 Cyanide)	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water).	Initial when completed: Lot # of added preservative: Date/Time preservative added:
Per Method, VOA pH is checked after analysis	
Samples checked for dechlorination: ☐ Yes ☐ No ☒ N/A	14.
KI starch test strips Lot #	Positive for Res. Chlorine? Y N
Residual chlorine strips Lot #	
SM 4500 CN samples checked for sulf ☐ Yes ☐ No ☒ N/A	15.
Lead Acetate Strips Lot #	Positive for Sulfide? Y N
Headspace in ALK Bottle (>6mm): ☐ Yes ☐ No ☒ N/A	
Headspace in VOA Vials (>6mm): ☐ Yes ☐ No ☒ N/A	16.
Trip Blank Present: ☐ Yes ☐ No ☒ N/A	
Trip Blank Custody Seals Present ☐ Yes ☐ No ☒ N/A	17.

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

* PM (Project Manager) review (which includes the SCUR) is documented electronically in LIMS.

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-8S

Lab Name: Pace Analytical - New York SDG No. : 70362344 Contract: L2538382
Lab Sample ID: 70362344001 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Sulfide	<2.0	U	mg/L	1	06/25/2025 14:10

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-8D

Lab Name: Pace Analytical - New York SDG No. : 70362344 Contract: L2538382
Lab Sample ID: 70362344002 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Sulfide	<2.0	U	mg/L	1	06/25/2025 14:15

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-5D

Lab Name: Pace Analytical - New York SDG No. : 70362344 Contract: L2538382
Lab Sample ID: 70362344003 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Sulfide	<2.0	U	mg/L	1	06/25/2025 14:22

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

PZ-5

Lab Name: Pace Analytical - New York SDG No. : 70362344 Contract: L2538382
Lab Sample ID: 70362344004 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Sulfide	<2.0	U	mg/L	1	06/25/2025 14:57

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-12S

Lab Name: Pace Analytical - New York SDG No. : 70362344 Contract: L2538382
Lab Sample ID: 70362344005 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Sulfide	<2.0	U	mg/L	1	06/25/2025 15:05

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-12D

Lab Name: Pace Analytical - New York SDG No. : 70362344 Contract: L2538382
Lab Sample ID: 70362344006 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Sulfide	<2.0	U	mg/L	1	06/25/2025 15:11

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

DUP_06182025

Lab Name: Pace Analytical - New York SDG No. : 70362344 Contract: L2538382
Lab Sample ID: 70362344007 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Sulfide	<2.0	U	mg/L	1	06/25/2025 15:30

FORM III INORGANIC-1
BLANKS

Lab Name: Pace Analytical - New York SDG No. : 70362344 Contract : L2538382

Method Blank Matrix: Water Instrument ID: 70WETO

Method Blank Concentration Units: mg/L

Analyte	Initial Calibration Blank		Continuing Calibration Blank						Method Blank	
		C		C		C		C	2150349	C
Sulfide									ND	U

FORM V INORGANIC-1
MATRIX SPIKE SAMPLE RECOVERY

SAMPLE NO.

2150351MS

Lab Name: Pace Analytical - New York SDG No. : 70362344 Contract: L2538382

Matrix: Water Basis: Wet Parent Sample ID: MW-12D

Percent Moisture: _____

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Sulfide	mg/L	70-130	<2.0	<2.0	11.2	-1*

* Spike Recovery outside QC Limits

FORM V INORGANIC-2
MATRIX SPIKE SAMPLE RECOVERY

SAMPLE NO.

2150352MSD

Lab Name: Pace Analytical - New York SDG No. : 70362344 Contract: L2538382

Matrix: Water Basis: Wet Parent Sample ID: MW-12D

Percent Moisture: _____

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Sulfide	mg/L	70-130	<2.0	<2.0	11.2	-1*

* Spike Recovery outside QC Limits

SAMPLE NO.

FORM VI INORGANIC-1
DUPLICATES

2150352MSD

Lab Name: Pace Analytical - New York SDG No. : 70362344 Contract: L2538382Matrix: Water Concentration Units: mg/LPercent Moisture: Basis: Wet

Analyte	RPD Control Limit	Sample	Duplicate	RPD
Sulfide	20	<2.0	<2.0	

FORM VII INORGANIC-1
LABORATORY CONTROL SAMPLE

SAMPLE NO.

2150350LCS

Lab Name: Pace Analytical - New York SDG No. : 70362344 Contract: L2538382

Matrix: Water

Analyte	Units	True	Found	%R	Limits	
Sulfide	mg/L	14.0	14.0	100	85	115

FORM XII INORGANIC-1
PREPARATION LOG

Lab Name: Pace Analytical - New York SDG No. : 70362344 Contract: L2538382

Preparation Method: SM 4500-S2 F-2011 Batch: WET 92243

Lab Sample ID	Sample Name	Preparation Date	Initial Volume (mL)	Final Volume (mL)
2150349	2150349BLANK	06/25/2025	200	200
2150350	2150350LCS	06/25/2025	200	200
2150351	2150351MS	06/25/2025	250	250
2150352	2150352MSD	06/25/2025	250	250
70362344001	MW-8S	06/25/2025	250	250
70362344002	MW-8D	06/25/2025	250	250
70362344003	MW-5D	06/25/2025	250	250
70362344004	PZ-5	06/25/2025	250	250
70362344005	MW-12S	06/25/2025	250	250
70362344006	MW-12D	06/25/2025	250	250
70362344007	DUP_06182025	06/25/2025	250	250

FORM XIII INORGANIC-1
ANALYSIS RUN LOG

Lab Name: Pace Analytical - New York SDG No. : 70362344 Contract: L2538382

Instrument ID: 70WETO Analysis Method: SM 4500-S2 F-2011

Start Date: 06/25/2025 13:56 End Date: 06/25/2025 15:30

Sample Name	Lab Sample ID	D/F	Date	Time	sulf
2150349BLANK	2150349	1	06/25/2025	13:56	X
2150350LCS	2150350	1	06/25/2025	13:56	X
MW-8S	70362344001	1	06/25/2025	14:10	X
MW-8D	70362344002	1	06/25/2025	14:15	X
MW-5D	70362344003	1	06/25/2025	14:22	X
PZ-5	70362344004	1	06/25/2025	14:57	X
MW-12S	70362344005	1	06/25/2025	15:05	X
MW-12D	70362344006	1	06/25/2025	15:11	X
2150351MS	2150351	1	06/25/2025	15:18	X
2150352MSD	2150352	1	06/25/2025	15:24	X
DUP_06182025	70362344007	1	06/25/2025	15:30	X



Prep Log Report

Batch Information: WET_SULFIDE_92243_6/25/25

4500S2F | Sulfide

Analysis Method	SM 4500-S2 F-2011
Starch Indicator Solution	204544

Instrument	70WET0
Reviewed By	SDO

Analyzed By	GEL
Reviewed By Date	07/15/2025 11:32

1:1 HCl	214628
Batch Notes	

Sample Information:

QC Rule	Sample Type	Lab Sample ID	Select	Initial Volume (mL)	Iodine 0.025N (mL)	Thio Start (mL)	Thio End (mL)	Sodium Thiosulfate 0.025N (g)	Sulfide	Units	Run Date/Time	Filtered	Glass Fiber Filters ()	Sample Notes
4500S2F W	BLANK	2150349	Y	200	209580 (5)	3.9	8.9	211172 (5.00)	0.00	mg/L	06/25/2025 13:56:25	Yes	188807 ()	
4500S2F W	LCS	2150350	Y	200	209580 (10)	8.9	11.9	211172 (3.00)	14.00	mg/L	06/25/2025 13:56:28	Yes	188807 ()	
4500S2F W	PS	70362344001	Y	250	209580 (5)	11.9	16.6	211172 (4.70)	0.48	mg/L	06/25/2025 14:10:52	Yes	188807 ()	
4500S2F W	PS	70362344002	Y	250	209580 (5)	16.8	21.8	211172 (5.00)	0.00	mg/L	06/25/2025 14:15:30	Yes	188807 ()	
4500S2F W	PS	70362344003	Y	250	209580 (5)	22.1	27	211172 (4.90)	0.16	mg/L	06/25/2025 14:22:14	Yes	188807 ()	
4500S2F W	PS	70362344004	Y	250	209580 (5)	27.8	32.8	211172 (5.00)	0.00	mg/L	06/25/2025 14:57:17	Yes	188807 ()	
4500S2F W	PS	70362344005	Y	250	209580 (5)	32.9	37.8	211172 (4.90)	0.16	mg/L	06/25/2025 15:05:07	Yes	188807 ()	
4500S2F W	RQS	70362344006	Y	250	209580 (5)	8.8	13.2	211172 (4.40)	0.96	mg/L	06/25/2025 15:11:47	Yes	188807 ()	
4500S2F W	MS	2150351	Y	250	209580 (5)	13.8	18.3	211172 (4.50)	0.80	mg/L	06/25/2025 15:18:11	Yes	188807 ()	
4500S2F W	MSD	2150352	Y	250	209580 (5)	13.3	17.8	211172 (4.50)	0.80	mg/L	06/25/2025 15:24:56	Yes	188807 ()	
4500S2F W	PS	70362344007	Y	250	209580 (5)	37.9	42.8	211172 (4.90)	0.16	mg/L	06/25/2025 15:30:57	Yes	188807 ()	
4500S2F W	PS	70362347003	Y	250	209580 (5)	42.8	47.7	211172 (4.90)	0.16	mg/L	06/25/2025 15:35:38	Yes	188807 ()	
4500S2F W	PS	70362495001	Y	250	209580 (5)	16.6	21.6	211172 (5.00)	0.00	mg/L	06/25/2025 15:39:22	Yes	188807 ()	
4500S2F W	PS	70362495002	Y	250	209580 (5)	21.7	26.7	211172 (5.00)	0.00	mg/L	06/25/2025 15:42:10	Yes	188807 ()	
4500S2F W	PS	70362495003	Y	250	209580 (5)	26.7	31.7	211172 (5.00)	0.00	mg/L	06/25/2025 15:45:01	Yes	188807 ()	
4500S2F W	PS	70362495004	Y	250	209580 (5)	31.7	36.7	211172 (5.00)	0.00	mg/L	06/25/2025 15:47:38	Yes	188807 ()	
4500S2F W	PS	70362495005	Y	250	209580 (5)	36.7	41.7	211172 (5.00)	0.00	mg/L	06/25/2025 15:50:17	Yes	188807 ()	
4500S2F W	PS	70362495006	Y	250	209580 (5)	41.7	46.7	211172 (5.00)	0.00	mg/L	06/25/2025 15:53:56	Yes	188807 ()	



Prep Log Report

QC Rule	Sample Type	Lab Sample ID	S-SPK (mL)
4500S2F W	BLANK	2150349	
4500S2F W	LCS	2150350	211939 (1)
4500S2F W	PS	70362344001	
4500S2F W	PS	70362344002	
4500S2F W	PS	70362344003	
4500S2F W	PS	70362344004	
4500S2F W	PS	70362344005	
4500S2F W	RQS	70362344006	
4500S2F W	MS	2150351	211939 (1)
4500S2F W	MSD	2150352	211939 (1)
4500S2F W	PS	70362344007	
4500S2F W	PS	70362347003	
4500S2F W	PS	70362495001	
4500S2F W	PS	70362495002	
4500S2F W	PS	70362495003	
4500S2F W	PS	70362495004	
4500S2F W	PS	70362495005	
4500S2F W	PS	70362495006	

Standard Notes:

211939: Wet Sulfide LCS/ Second Source 5mL



Analytical Data Package

Prepared by:

Pace Analytical Services

Pace Project No.: 50405253

Project Overview

Final Report with COC/SCUR	1
Certifications	2
Sample Summary	3
Sample Analyte Count	4
Analytical Results	5
Quality Control Data	12
Qualifiers	13
Quality Control Data Cross Reference Table	14
Chain of Custody	15

InOrganic

Ion Chromatography

Analytical Results (Form 1-IN)	18
Initial & Continuing Calibration Verification (Form 2A-IN)	25
Blanks (Form 3-IN)	27
Matrix Spike Recovery (Form 5A-IN)	28
Duplicates (Form 6-IN)	30
Laboratory Control Spike (Form 7-IN)	31
Preparation Log (Form 12-IN)	32
Analysis Run Log (Form 13-IN)	33
Ion Chromatography Raw Data (Multiple Schedules/Sample)	34



July 01, 2025

Jennifer Byrnes
Pace MA
Eight Walkup Drive
Westborough, MA 01581

RE: Project: L2538382
Pace Project No.: 50405253

Dear Jennifer Byrnes:

Enclosed are the analytical results for sample(s) received by the laboratory on June 20, 2025. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Indianapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tina Sayer
tina.sayer@pacelabs.com
(317)228-3127
Project Manager

Enclosures

cc: Pace MA, Pace MA



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: L2538382
Pace Project No.: 50405253

Pace Analytical Services Indianapolis

7726 Moller Road, Indianapolis, IN 46268
Illinois Accreditation #: 200074
Indiana Drinking Water Laboratory #: C-49-06
Kansas/TNI Certification #: E-10177
Kentucky UST Agency Interest #: 80226
Kentucky WW Laboratory ID #: 98019
Louisiana Certification #: 04076

Michigan Drinking Water Laboratory #9050
Oklahoma Laboratory #: 9204
Texas Certification #: T104704355
Washington Dept of Ecology #: C1081
Wisconsin Laboratory #: 999788130
USDA Foreign Soil Permit #: 525-23-13-23119
USDA Compliance Agreement #: IN-SL-22-001

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SAMPLE SUMMARY

Project: L2538382

Pace Project No.: 50405253

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50405253001	MW-8S	Water	06/18/25 09:00	06/20/25 08:30
50405253002	MW-8D	Water	06/18/25 09:05	06/20/25 08:30
50405253003	MW-5D	Water	06/18/25 10:30	06/20/25 08:30
50405253004	PZ-5	Water	06/18/25 10:45	06/20/25 08:30
50405253005	MW-12S	Water	06/18/25 13:20	06/20/25 08:30
50405253006	MW-12D	Water	06/18/25 13:22	06/20/25 08:30
50405253007	DUP_06182025	Water	06/18/25 12:00	06/20/25 08:30

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SAMPLE ANALYTE COUNT

Project: L2538382

Pace Project No.: 50405253

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50405253001	MW-8S	EPA 9056	MTW	1
50405253002	MW-8D	EPA 9056	MTW	1
50405253003	MW-5D	EPA 9056	MTW	1
50405253004	PZ-5	EPA 9056	MTW	1
50405253005	MW-12S	EPA 9056	MTW	1
50405253006	MW-12D	EPA 9056	MTW	1
50405253007	DUP_06182025	EPA 9056	MTW	1

PASI-I = Pace Analytical Services - Indianapolis

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ANALYTICAL RESULTS

Project: L2538382

Pace Project No.: 50405253

Sample: MW-8S		Lab ID: 50405253001		Collected: 06/18/25 09:00		Received: 06/20/25 08:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Iodide	ND	mg/L	0.50	0.15	1		06/28/25 19:46		

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ANALYTICAL RESULTS

Project: L2538382
Pace Project No.: 50405253

Sample: MW-8D		Lab ID: 50405253002		Collected: 06/18/25 09:05		Received: 06/20/25 08:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC									
Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis									
Iodide	ND	mg/L	0.50	0.15	1		06/28/25 20:06		

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ANALYTICAL RESULTS

Project: L2538382
Pace Project No.: 50405253

Sample: MW-5D		Lab ID: 50405253003		Collected: 06/18/25 10:30		Received: 06/20/25 08:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC									
Analytical Method: EPA 9056 Pace Analytical Services - Indianapolis									
Iodide	ND	mg/L	0.50	0.15	1		06/28/25 20:25		

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ANALYTICAL RESULTS

Project: L2538382

Pace Project No.: 50405253

Sample: PZ-5		Lab ID: 50405253004		Collected: 06/18/25 10:45		Received: 06/20/25 08:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Iodide	ND	mg/L	0.50	0.15	1		06/28/25 20:44		

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ANALYTICAL RESULTS

Project: L2538382

Pace Project No.: 50405253

Sample: MW-12S		Lab ID: 50405253005		Collected: 06/18/25 13:20		Received: 06/20/25 08:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Iodide	ND	mg/L	0.50	0.15	1		06/28/25 21:03		

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ANALYTICAL RESULTS

Project: L2538382

Pace Project No.: 50405253

Sample: MW-12D		Lab ID: 50405253006		Collected: 06/18/25 13:22		Received: 06/20/25 08:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Iodide	ND	mg/L	0.50	0.15	1		06/28/25 21:23		

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ANALYTICAL RESULTS

Project: L2538382

Pace Project No.: 50405253

Sample: DUP_06182025		Lab ID: 50405253007		Collected: 06/18/25 12:00		Received: 06/20/25 08:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9056 Iodide by IC									
Analytical Method: EPA 9056									
Pace Analytical Services - Indianapolis									
Iodide	ND	mg/L	0.50	0.15	1		06/28/25 22:59		

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QUALITY CONTROL DATA

Project: L2538382

Pace Project No.: 50405253

QC Batch:	851349	Analysis Method:	EPA 9056
QC Batch Method:	EPA 9056	Analysis Description:	9056 Iodide by IC
		Laboratory:	Pace Analytical Services - Indianapolis

Associated Lab Samples: 50405253001, 50405253002, 50405253003, 50405253004, 50405253005, 50405253006, 50405253007

METHOD BLANK: 3899525

Matrix: Water

Associated Lab Samples: 50405253001, 50405253002, 50405253003, 50405253004, 50405253005, 50405253006, 50405253007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iodide	mg/L	ND	0.50	0.15	06/29/25 01:14	

LABORATORY CONTROL SAMPLE: 3899526

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iodide	mg/L	5	5.1	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3899527 3899528

Parameter	Units	50405253006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iodide	mg/L	ND	5	5	4.6	4.5	91	91	80-120	1	15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: L2538382

Pace Project No.: 50405253

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L2538382

Pace Project No.: 50405253

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50405253001	MW-8S	EPA 9056	851349		
50405253002	MW-8D	EPA 9056	851349		
50405253003	MW-5D	EPA 9056	851349		
50405253004	PZ-5	EPA 9056	851349		
50405253005	MW-12S	EPA 9056	851349		
50405253006	MW-12D	EPA 9056	851349		
50405253007	DUP_06182025	EPA 9056	851349		

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WO# : 50405253



50405253

Page 1

		Subcontract Chain of Custody Pace Analytical (Indianapolis, IN) 7726 Moller Road Indianapolis, IN 46268						
Client Information Client: Pace Analytical Labs Address: Eight Walkup Drive Westborough, MA 01581-1019 Report To: west.subreports@pacelabs.com Bill To: invoices@pacelabs.coupahost.com Phone: 716.427.5228 Email: Jennifer.Byrnes@pacelabs.com		Project Information Project Location: NY Project Manager: Jennifer Byrnes						
		Regulatory Requirements/Report Limits State/Federal Program: Regulatory Criteria: Report to MDL						
		Turnaround & Deliverables Information Due Date: Deliverables: Subcontract - Data Deliverable Package						
Project Specific Requirements and/or Report Requirements Reference following Pace Job Number on final report/deliverables: L2538382 Report to include Method and/or Regulatory required batch QC Additional Comments: Profile # 11706: needs L4 and EDD 265 NY EQUIS								
Lab ID	Pace ID	Client ID	Collection Date/Time	Sample Matrix	Analysis	Sample Level Comments	Sample Specific QC	Container Count
	L2538382-01 L2538382-02 L2538382-03 L2538382-04 L2538382-05 L2538382-06 L2538382-07	MW-8S MW-8D MW-5D PZ-5 MW-12S MW-12D DUP_06182025	06-18-25 09:00 06-18-25 09:05 06-18-25 10:30 06-18-25 10:45 06-18-25 13:20 06-18-25 13:22 06-18-25 12:00	WATER WATER WATER WATER WATER WATER WATER	Iodide EPA 9056 Iodide EPA 9056 Iodide EPA 9056 Iodide EPA 9056 Iodide EPA 9056 Iodide EPA 9056 Iodide EPA 9056		MS,MSD	1 1 1 1 1 3 1
		Relinquished By:		Date/Time:	Received By:		Date/Time:	
		C. G. Greaux			Felix			
		Felix		6/20/25 0830	Mara Winkler		6/20/25 0830	
Form No: AL_subcoc								



SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 6/20/25 1539-MDW

1. <u>Thermometer:</u> 1 2 3 4 5 6 7 8 9 <u>A B C D E F G H I</u>		3. <u>Packing Material:</u> Bubble Wrap Bubble Bags None Other _____	
2. <u>Cooler Temperature(s):</u> <u>2.2/2.0</u> <u> </u> <u> </u> <u> </u> (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)		4. <u>Ice Type:</u> Wet Blue None	
3. Was the PM notified of out of temp cooler?: (leave blank if samples are in temp) Yes No		5. <u>Courier:</u> Fed Ex UPS Client Pace Now/Jett Other	
Cooler temp should be above freezing to 6°C If the PM was contacted in the comments below please write how they instructed the project to proceed		6. <u>Custody Seal on Cooler/Box Present:</u> Yes No (If yes)Seals Intact: Yes No (leave blank if no seals were present)	

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		☒	All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl. Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			
Short Hold Time Analysis (48 hours or less)? Analysis:		☒				☒
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine Check (SVOC 625 Pest/PCB 608)	<u>Present</u>	<u>Absent</u>	<u>N/A</u>
Rush TAT Requested (4 days or less):		☒	Residual Chlorine Check (Total/Amenable/Free Cyanide)			☒
Custody Signatures Present?	☒		Headspace in VOA Vials (>6mm): See Container Count form for details	<u>Present</u>	<u>Absent</u>	No VOA Vials Sent
Containers Intact?:	☒		Trip Blank Present?		☒	
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	☒		Trip Blank Custody Seals?:			☒
Comments:			Extra labels on Terracore Vials? (soils only)			

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-8S

Lab Name: Pace Analytical - Indiana SDG No. : 50405253 Contract: L2538382
Lab Sample ID: 50405253001 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Iodide	ND	U	mg/L	1	06/28/2025 19:46

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-8D

Lab Name: Pace Analytical - Indiana SDG No. : 50405253 Contract: L2538382
Lab Sample ID: 50405253002 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Iodide	ND	U	mg/L	1	06/28/2025 20:06

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-5D

Lab Name: Pace Analytical - Indiana SDG No. : 50405253 Contract: L2538382
Lab Sample ID: 50405253003 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Iodide	ND	U	mg/L	1	06/28/2025 20:25

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

PZ-5

Lab Name: Pace Analytical - Indiana SDG No. : 50405253 Contract: L2538382
Lab Sample ID: 50405253004 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Iodide	ND	U	mg/L	1	06/28/2025 20:44

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-12S

Lab Name: Pace Analytical - Indiana SDG No. : 50405253 Contract: L2538382
Lab Sample ID: 50405253005 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Iodide	ND	U	mg/L	1	06/28/2025 21:03

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

MW-12D

Lab Name: Pace Analytical - Indiana SDG No. : 50405253 Contract: L2538382
Lab Sample ID: 50405253006 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Iodide	ND	U	mg/L	1	06/28/2025 21:23

FORM I INORGANIC-1
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

DUP_06182025

Lab Name: Pace Analytical - Indiana SDG No. : 50405253 Contract: L2538382
Lab Sample ID: 50405253007 Percent Moisture: _____

CAS No.	Analyte	Concentration	Q	Units	DF	Analysis Date/Time
	Iodide	ND	U	mg/L	1	06/28/2025 22:59

FORM II INORGANIC-1
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Indiana SDG No. : 50405253 Contract: L2538382

Initial Calibration Verification Source: 412748

Continuing Calibration Verification Source: 412749

Concentration Units: mg/L Instrument ID: 50IC04

	Initial Calibration Verification				Continuing Calibration Verification						
	04/11/2025 09:03				06/28/2025 18:29			06/28/2025 22:20			Control Limit
Analyte	True	Found	%R	Control Limit	True	Found	%R	True	Found	%R	
Iodide	5.0	5.1	102.5	90-110	1.0	1.2	119.1	1.0	1.1	108.7	90-110

FORM II INORGANIC-2
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Pace Analytical - Indiana SDG No. : 50405253 Contract: L2538382

Initial Calibration Verification Source: _____

Continuing Calibration Verification Source: 412749

Concentration Units: mg/L Instrument ID: 50IC04

	Continuing Calibration Verification			
	06/29/2025 01:53			Control Limit
Analyte	True	Found	%R	
Iodide	1.0	0.93	93.1	90-110

FORM III INORGANIC-1
BLANKS

Lab Name: Pace Analytical - Indiana SDG No. : 50405253 Contract : L2538382

Method Blank Matrix: Water Instrument ID: 50IC04

Method Blank Concentration Units: mg/L

Analyte	Initial Calibration Blank (mg/L)		Continuing Calibration Blank (mg/L)						Method Blank	
	04/11/2025 09:22	C	06/28/2025 18:48	C	06/28/2025 22:40	C	06/29/2025 02:12	C	3899525	C
Iodide	0.034	U	0.034	U	0.034	U	0.034	U	ND	U

FORM V INORGANIC-1
MATRIX SPIKE SAMPLE RECOVERY

SAMPLE NO.

3899527MS

Lab Name: Pace Analytical - Indiana SDG No. : 50405253 Contract: L2538382

Matrix: Water Basis: Wet Parent Sample ID: MW-12D

Percent Moisture: _____

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Iodide	mg/L	80-120	4.6	ND	5.0	91

FORM V INORGANIC-2
MATRIX SPIKE SAMPLE RECOVERY

SAMPLE NO.

3899528MSD

Lab Name: Pace Analytical - Indiana SDG No. : 50405253 Contract: L2538382

Matrix: Water Basis: Wet Parent Sample ID: MW-12D

Percent Moisture: _____

Analyte	Units	Control Limit %R	Spiked Sample Result (SSR)	Sample Result (SR)	Spike Added (SA)	%R
Iodide	mg/L	80-120	4.5	ND	5.0	91

FORM VI INORGANIC-1
DUPLICATES

3899528MSD

Lab Name: Pace Analytical - Indiana SDG No. : 50405253 Contract: L2538382Matrix: Water Concentration Units: mg/LPercent Moisture: Basis: Wet

Analyte	RPD Control Limit	Sample	Duplicate	RPD
Iodide	15	4.6	4.5	1

FORM VII INORGANIC-1
LABORATORY CONTROL SAMPLE

SAMPLE NO.

3899526LCS

Lab Name: Pace Analytical - Indiana SDG No. : 50405253 Contract: L2538382

Matrix: Water

Analyte	Units	True	Found	%R	Limits	
Iodide	mg/L	5.0	5.1	101	80	120

FORM XII INORGANIC-1
PREPARATION LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50405253 Contract: L2538382

Preparation Method: EPA 9056 Batch: GCSV 61062

Lab Sample ID	Sample Name	Preparation Date	Initial Volume (mL)	Final Volume (mL)
3899525	3899525BLANK	06/29/2025	10	10
3899526	3899526LCS	06/29/2025	10	10
3899527	3899527MS	06/28/2025	10	10
3899528	3899528MSD	06/28/2025	10	10
50405253001	MW-8S	06/28/2025	10	10
50405253002	MW-8D	06/28/2025	10	10
50405253003	MW-5D	06/28/2025	10	10
50405253004	PZ-5	06/28/2025	10	10
50405253005	MW-12S	06/28/2025	10	10
50405253006	MW-12D	06/28/2025	10	10
50405253007	DUP_06182025	06/28/2025	10	10

FORM XIII INORGANIC-1
ANALYSIS RUN LOG

Lab Name: Pace Analytical - Indiana SDG No. : 50405253 Contract: L2538382

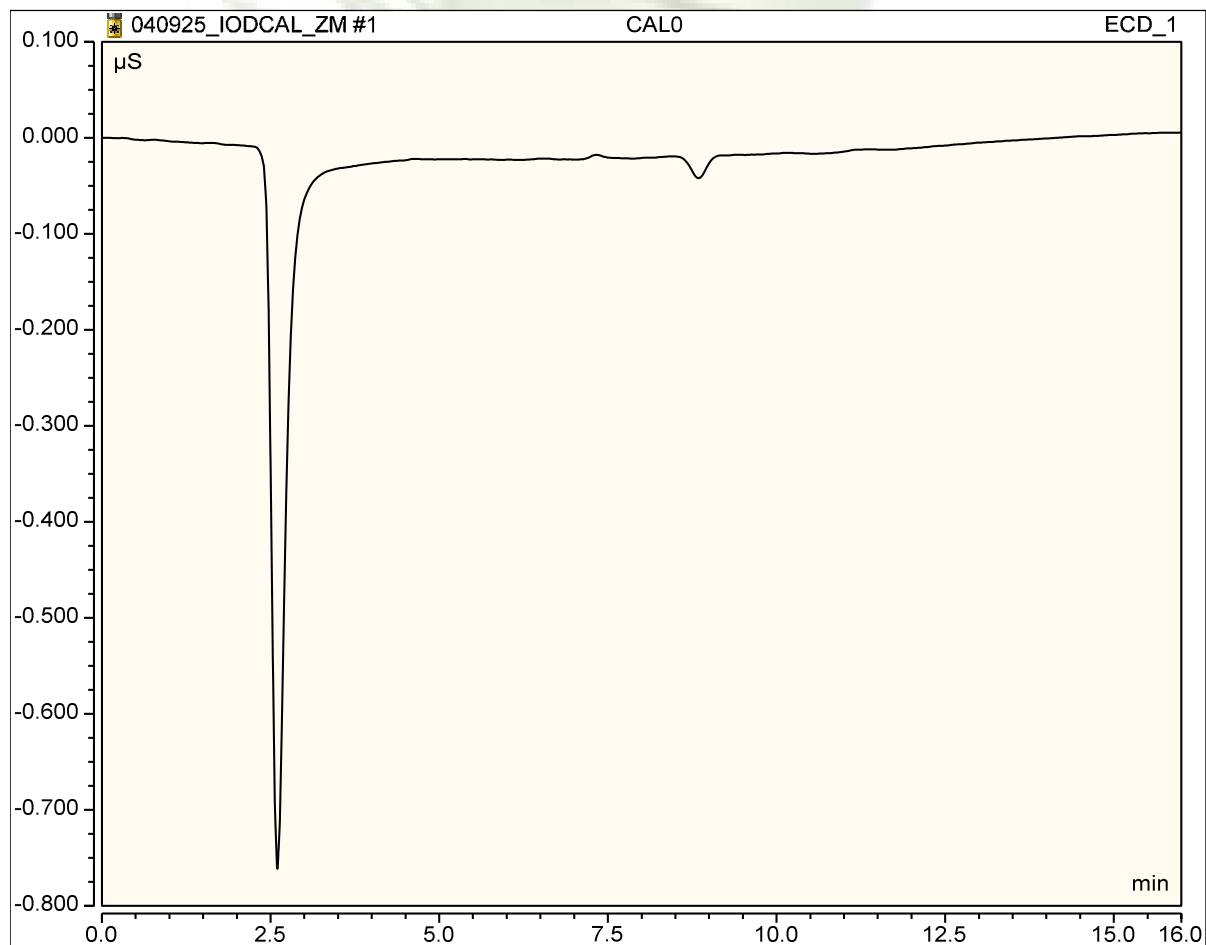
Instrument ID: 50IC04 Analysis Method: EPA 9056

Start Date: 04/09/2025 15:04 End Date: 06/29/2025 02:12

Sample Name	Lab Sample ID	D/F	Date	Time	iodi
26697031CAL0	26697031CAL0	1	04/09/2025	15:04	X
26697032CAL1	26697032CAL1	1	04/09/2025	15:24	X
26697033CAL2	26697033CAL2	1	04/09/2025	15:43	X
26697034CAL3	26697034CAL3	1	04/09/2025	16:02	X
26697035CAL4	26697035CAL4	1	04/09/2025	16:21	X
26697036CAL5	26697036CAL5	1	04/09/2025	16:41	X
26697039ICV	26697039ICV	1	04/11/2025	09:03	X
26697040ICB	26697040ICB	1	04/11/2025	09:22	X
27187170CCV	27187170CCV	1	06/28/2025	18:29	X
27187171CCB	27187171CCB	1	06/28/2025	18:48	X
MW-8S	50405253001	1	06/28/2025	19:46	X
MW-8D	50405253002	1	06/28/2025	20:06	X
MW-5D	50405253003	1	06/28/2025	20:25	X
PZ-5	50405253004	1	06/28/2025	20:44	X
MW-12S	50405253005	1	06/28/2025	21:03	X
MW-12D	50405253006	1	06/28/2025	21:23	X
3899527MS	3899527	1	06/28/2025	21:42	X
3899528MSD	3899528	1	06/28/2025	22:01	X
27183231CCV	27183231CCV	1	06/28/2025	22:20	X
27183232CCB	27183232CCB	1	06/28/2025	22:40	X
DUP_06182025	50405253007	1	06/28/2025	22:59	X
3899525BLANK	3899525	1	06/29/2025	01:14	X
3899526LCS	3899526	1	06/29/2025	01:33	X
27183233CCV	27183233CCV	1	06/29/2025	01:53	X
27183234CCB	27183234CCB	1	06/29/2025	02:12	X

CAL0			
412755			
Sample Name:	CAL0	Injection Volume (uL):	25.00
Vial Number:	RA1	Channel:	ECD_1
Sample Type:	Calibration Standard	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	412167
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	04/09/2025 15:04	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

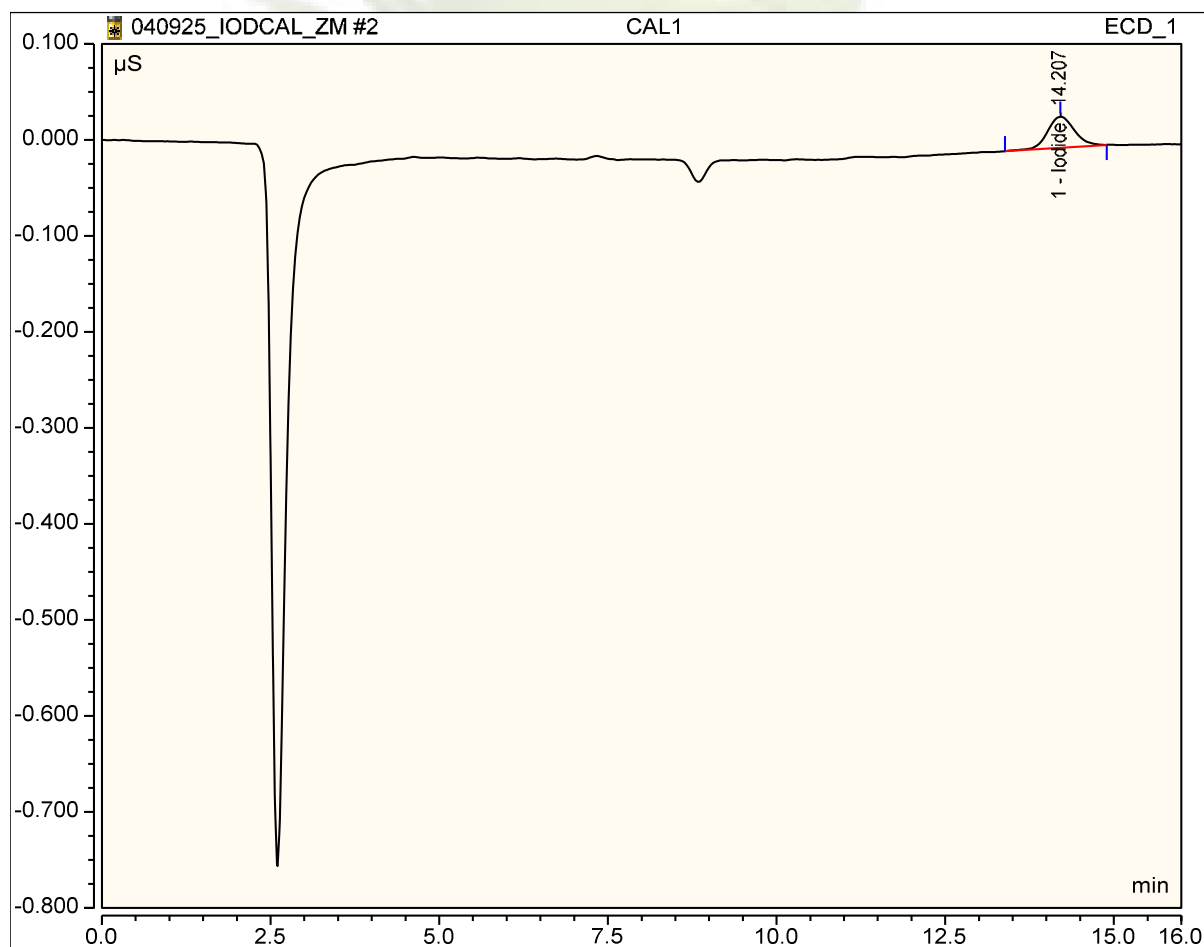
No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
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CAL1 412754

Sample Name:	CAL1	Injection Volume (uL):	25.00
Vial Number:	RA2	Channel:	ECD_1
Sample Type:	Calibration Standard	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	412167
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	04/09/2025 15:24	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

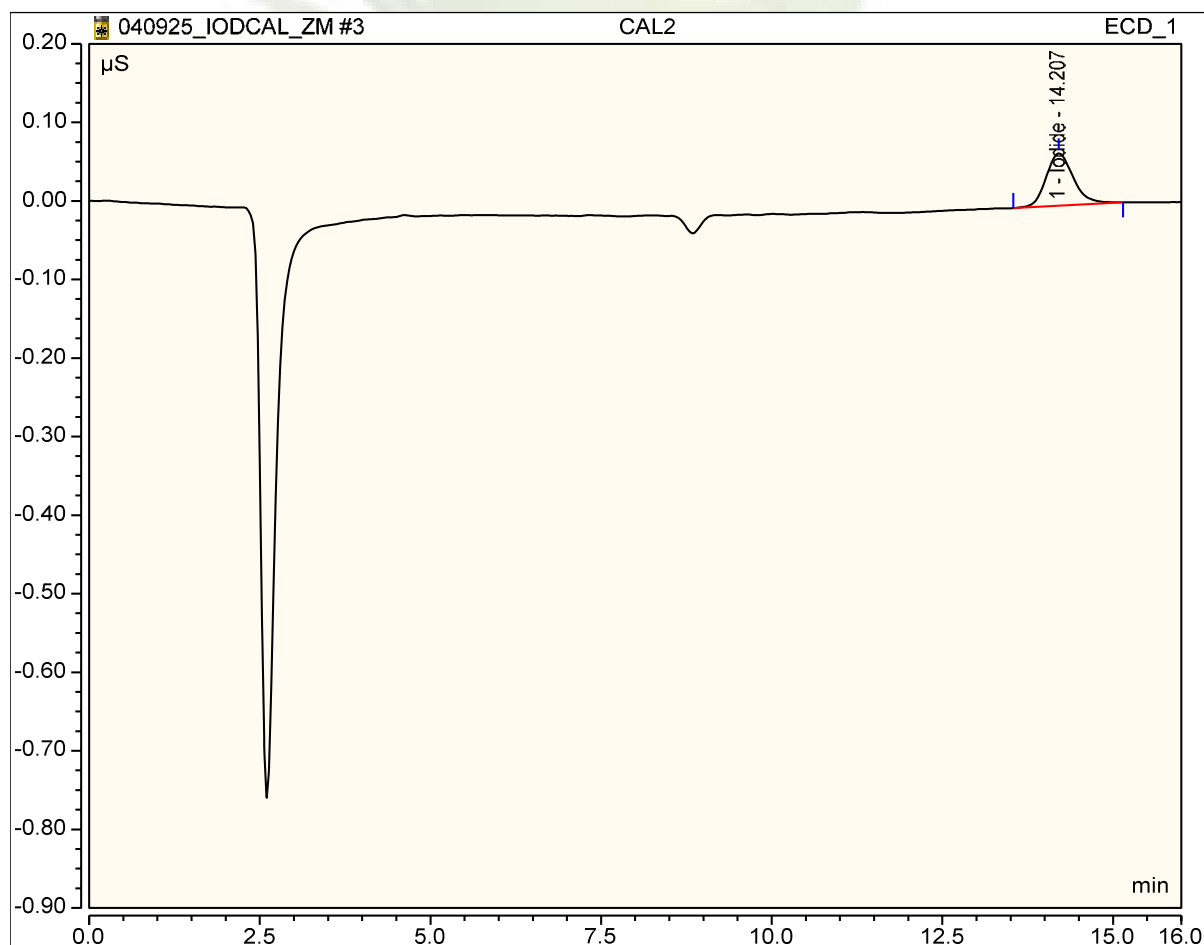
No.	Retention Time min	Name	Amount mg/L	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
1	14.21	Iodide	0.5012	0.015	0.032	BMB



CAL2 412753

Sample Name:	CAL2	Injection Volume (uL):	25.00
Vial Number:	RA3	Channel:	ECD_1
Sample Type:	Calibration Standard	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	412167
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	04/09/2025 15:43	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

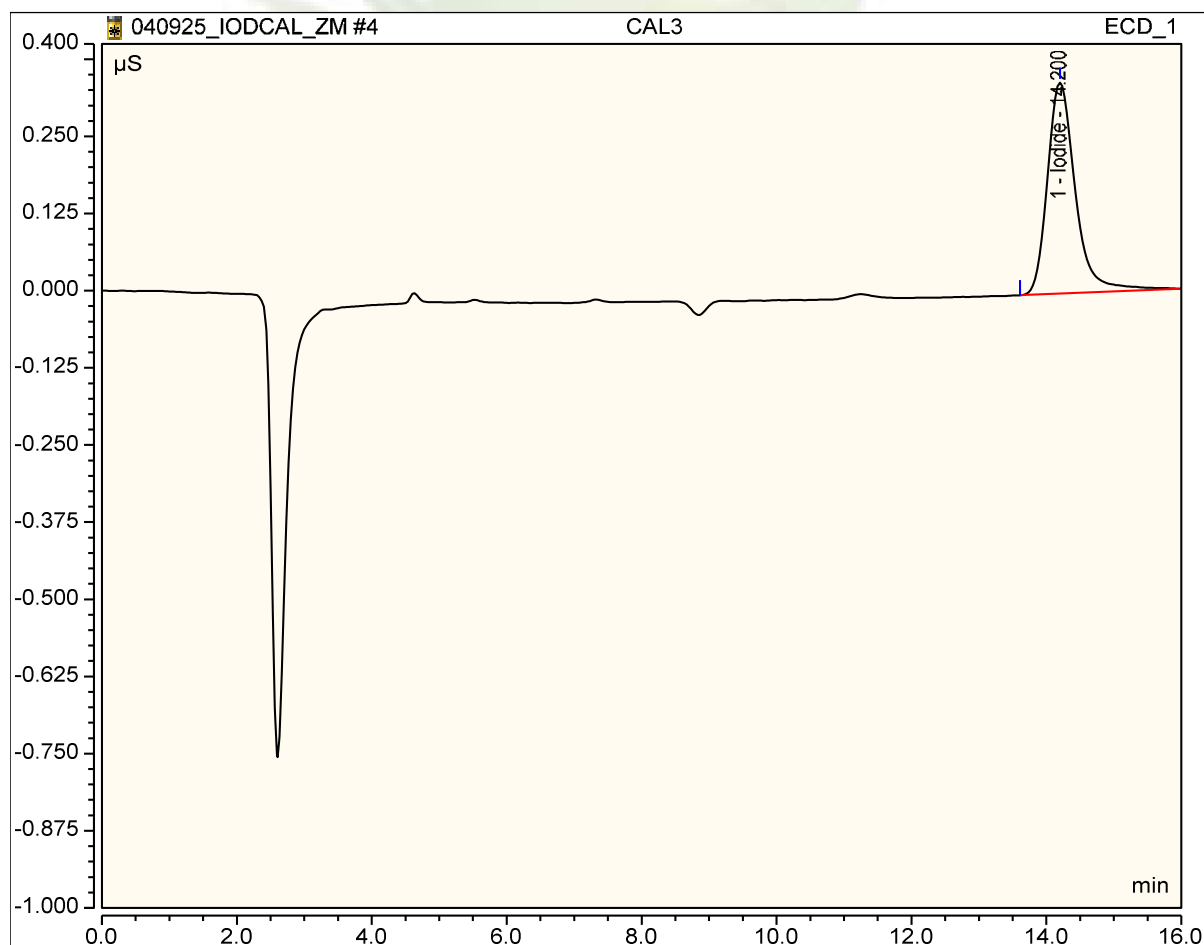
No.	Retention Time min	Name	Amount mg/L	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
1	14.21	Iodide	0.9935	0.031	0.067	BMB



CAL3 412752

Sample Name:	CAL3	Injection Volume (uL):	25.00
Vial Number:	RA4	Channel:	ECD_1
Sample Type:	Calibration Standard	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	412167
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	04/09/2025 16:02	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

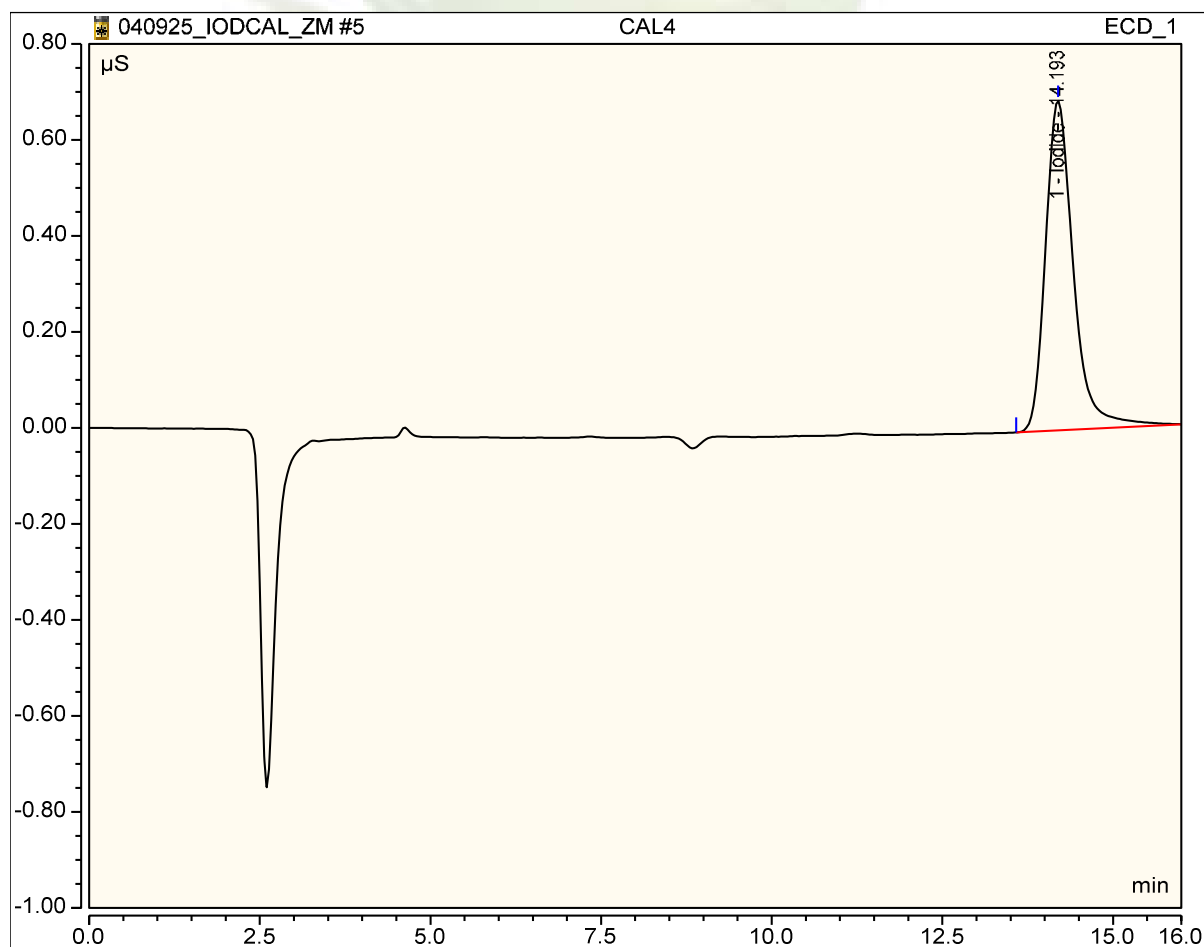
No.	Retention Time min	Name	Amount mg/L	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
1	14.20	Iodide	5.0400	0.163	0.342	BMB



CAL4 412751

Sample Name:	CAL4	Injection Volume (uL):	25.00
Vial Number:	RA5	Channel:	ECD_1
Sample Type:	Calibration Standard	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	412167
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	04/09/2025 16:21	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

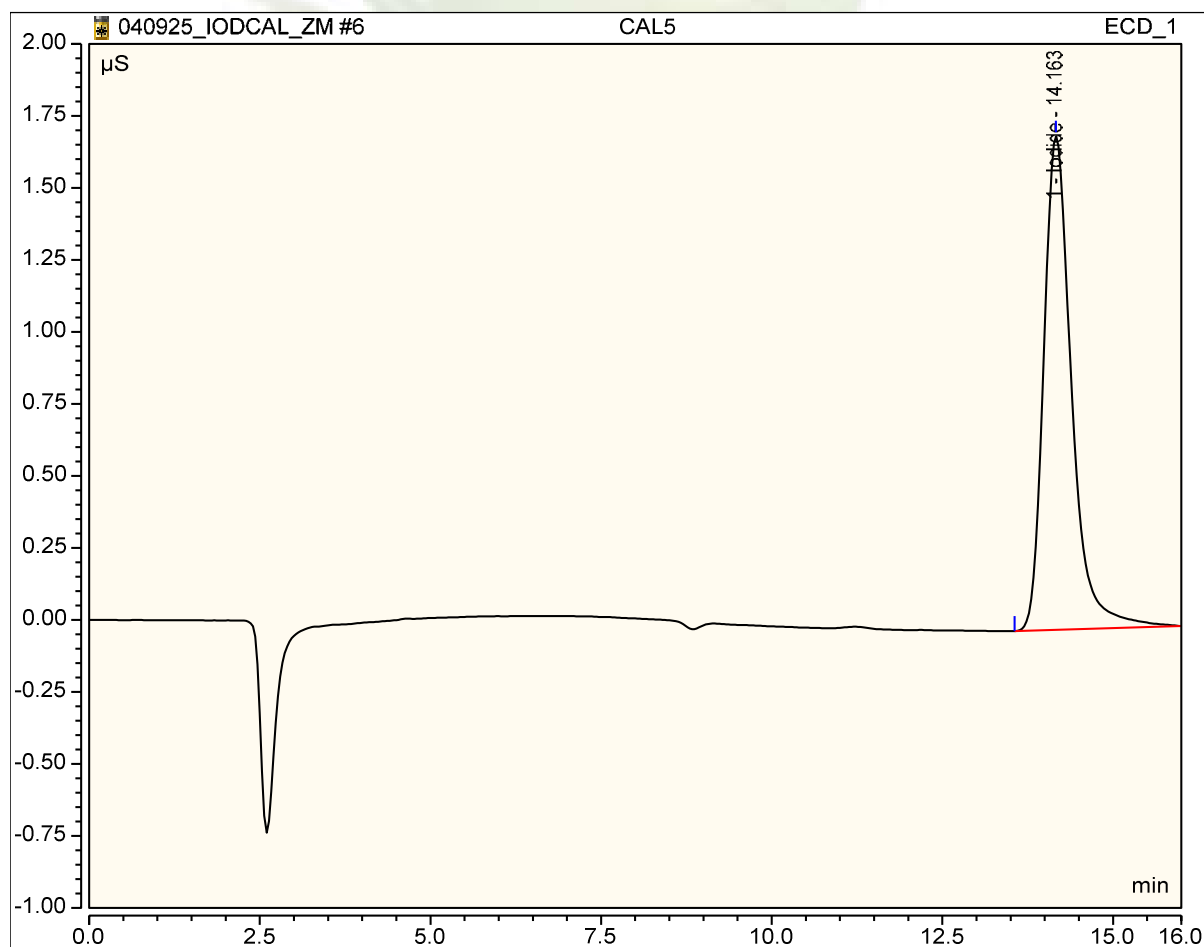
No.	Retention Time min	Name	Amount mg/L	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
1	14.19	Iodide	10.0144	0.326	0.687	BMB



CAL5 412750

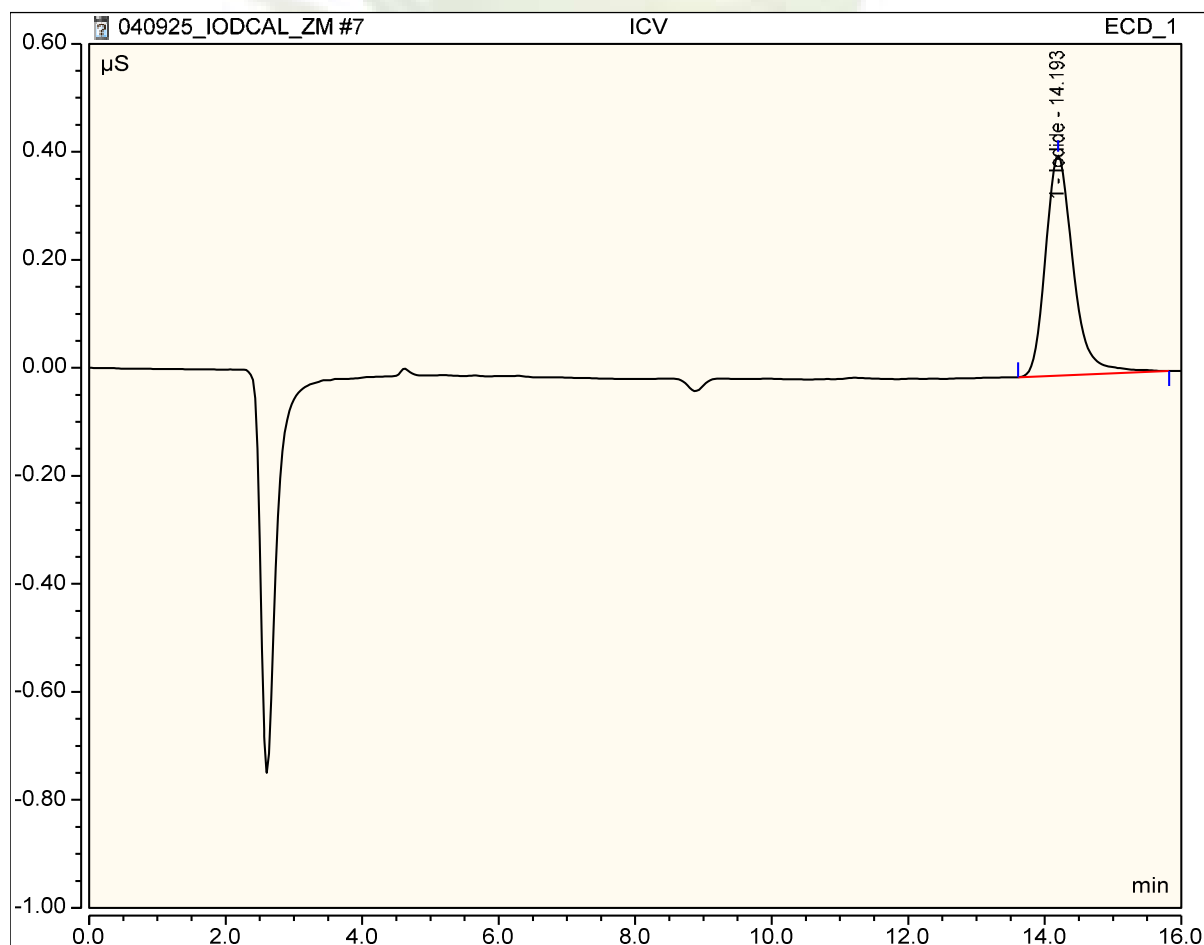
Sample Name:	CAL5	Injection Volume (uL):	25.00
Vial Number:	RA6	Channel:	ECD_1
Sample Type:	Calibration Standard	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	412167
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	04/09/2025 16:41	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

No.	Retention Time min	Name	Amount mg/L	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
1	14.16	Iodide	24.8642	0.811	1.715	BMB



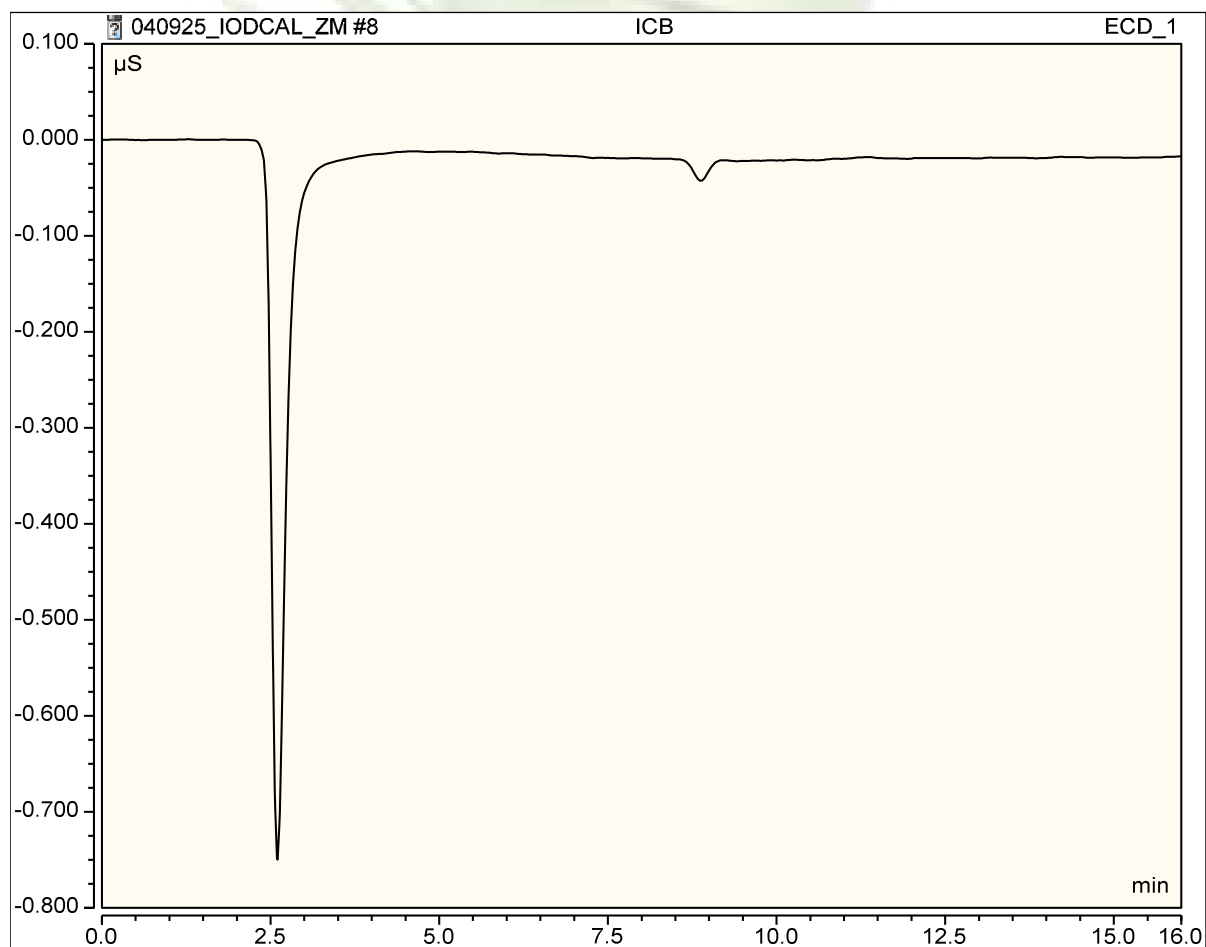
ICV			
412748			
Sample Name:	ICV	Injection Volume (uL):	25.00
Vial Number:	B3	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	412167
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	04/09/2025 17:00	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

No.	Retention Time min	Name	Amount mg/L	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
1	14.19	Iodide	5.9063	0.192	0.408	BMB



ICB			
340111			
Sample Name:	ICB	Injection Volume (uL):	25.00
Vial Number:	B1	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	412167
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	04/09/2025 17:19	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

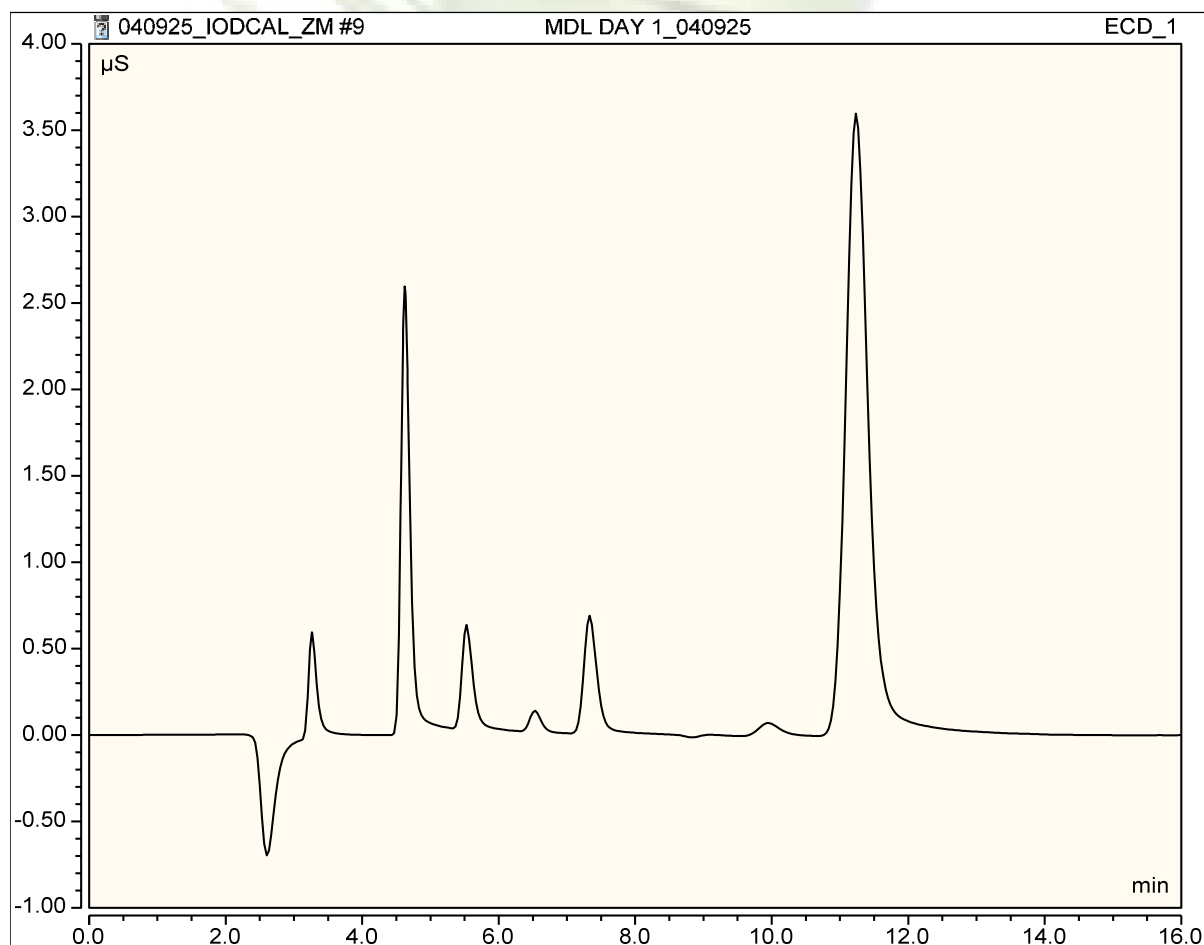
No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
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MDL DAY 1_040925

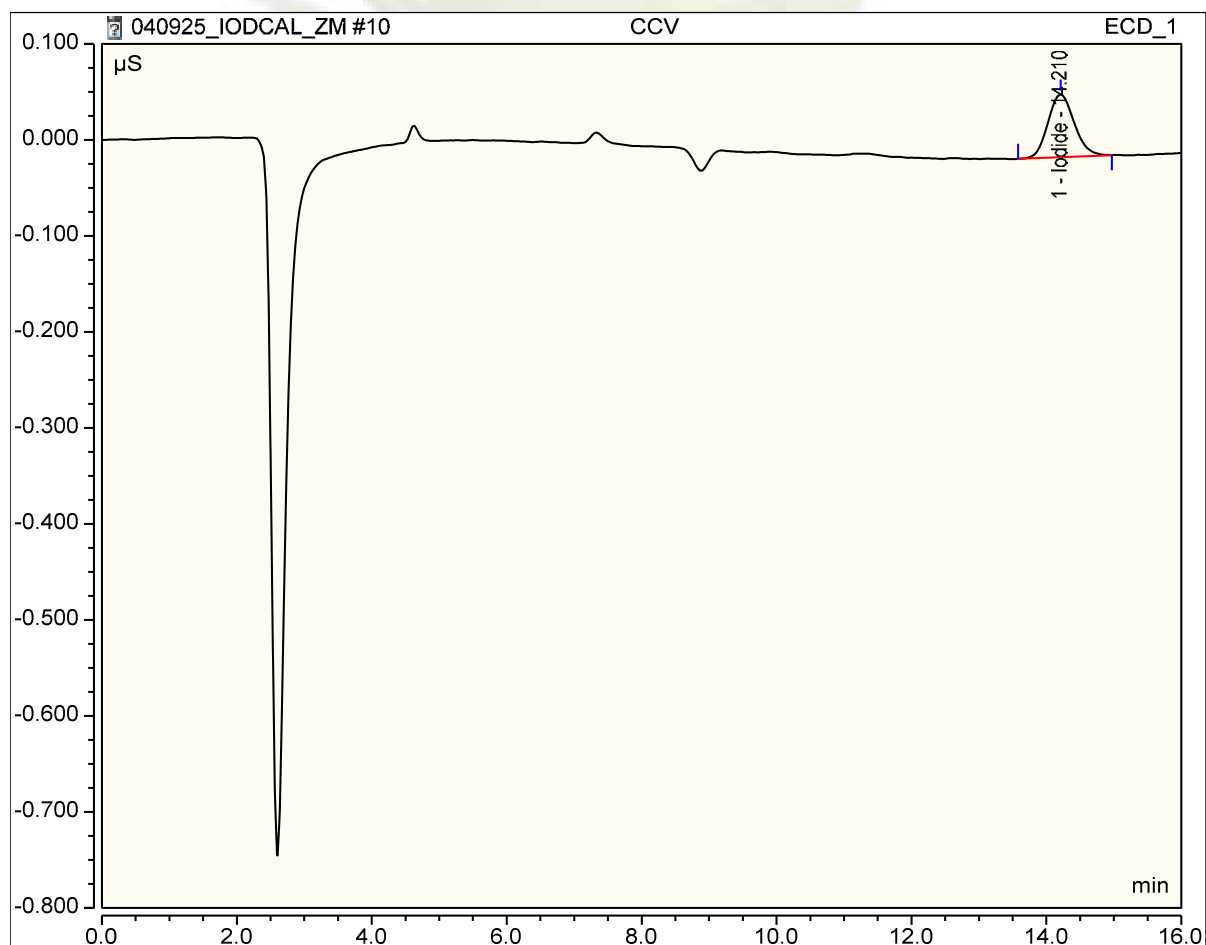
Sample Name:	MDL DAY 1_040925	Injection Volume (uL):	25.00
Vial Number:	BA7	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	412167
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	04/09/2025 17:39	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
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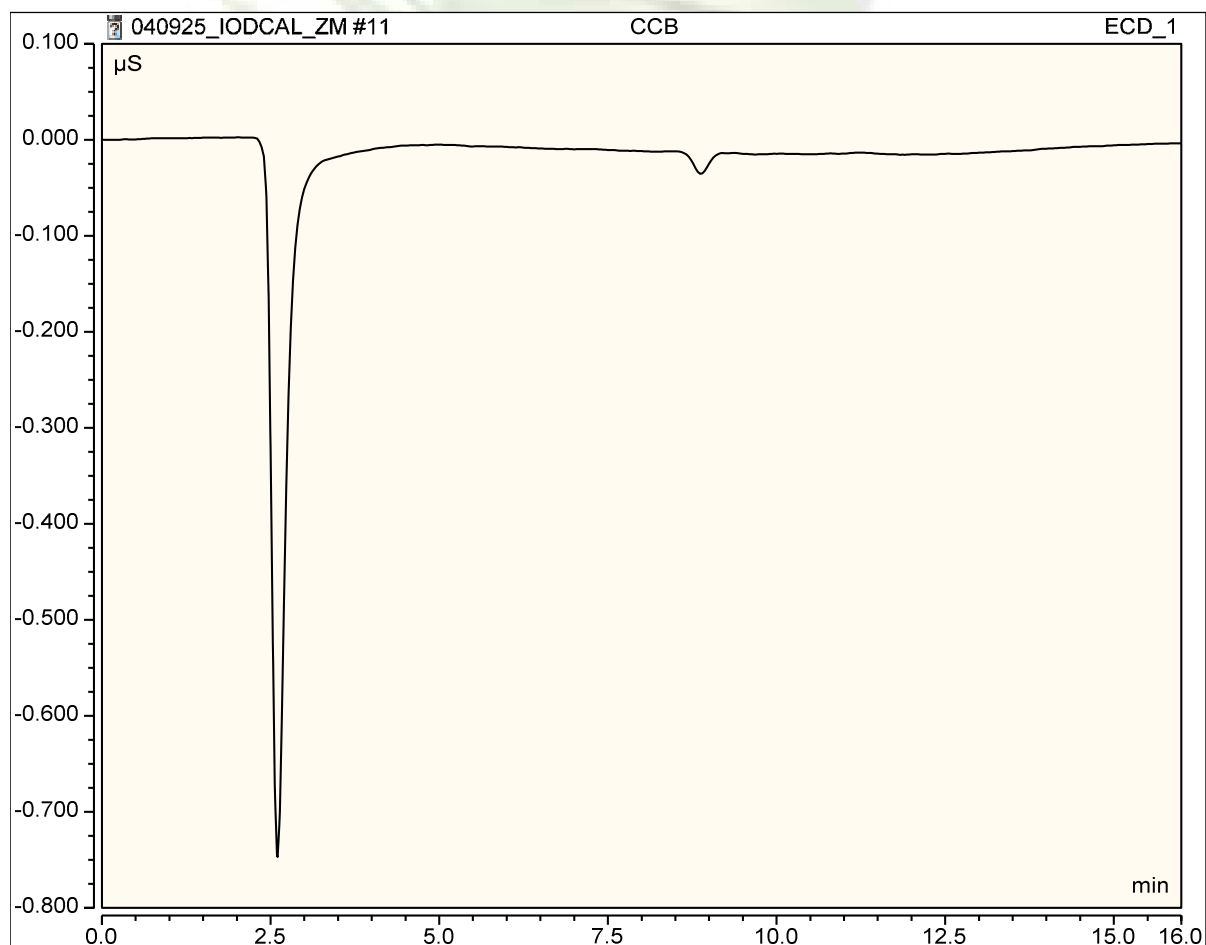
CCV			
412749			
Sample Name:	CCV	Injection Volume (uL):	25.00
Vial Number:	B2	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	412167
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	04/09/2025 17:58	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

No.	Retention Time min	Name	Amount mg/L	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
1	14.21	Iodide	0.9407	0.029	0.065	BMB



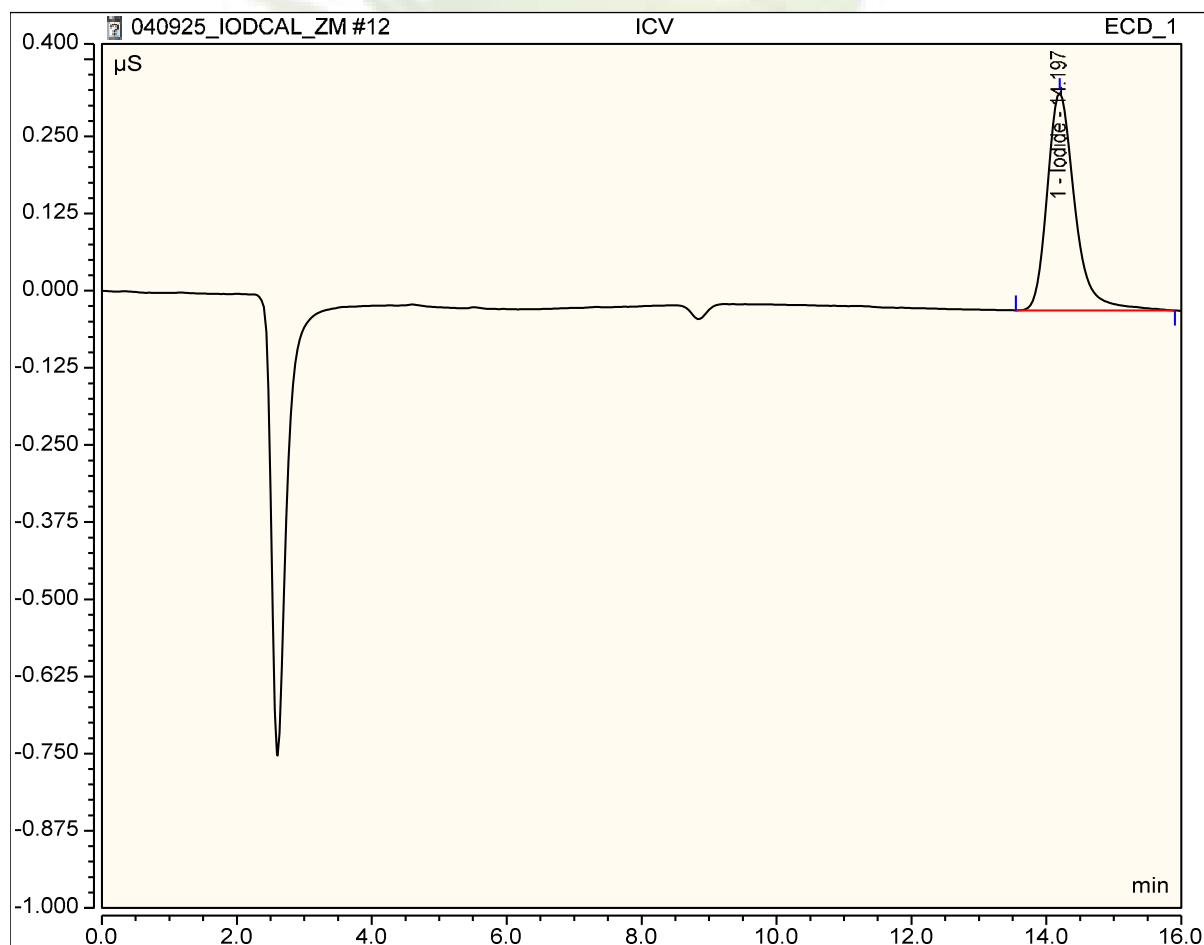
CCB			
340111			
Sample Name:	CCB	Injection Volume (uL):	25.00
Vial Number:	B1	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	412167
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	04/09/2025 18:17	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
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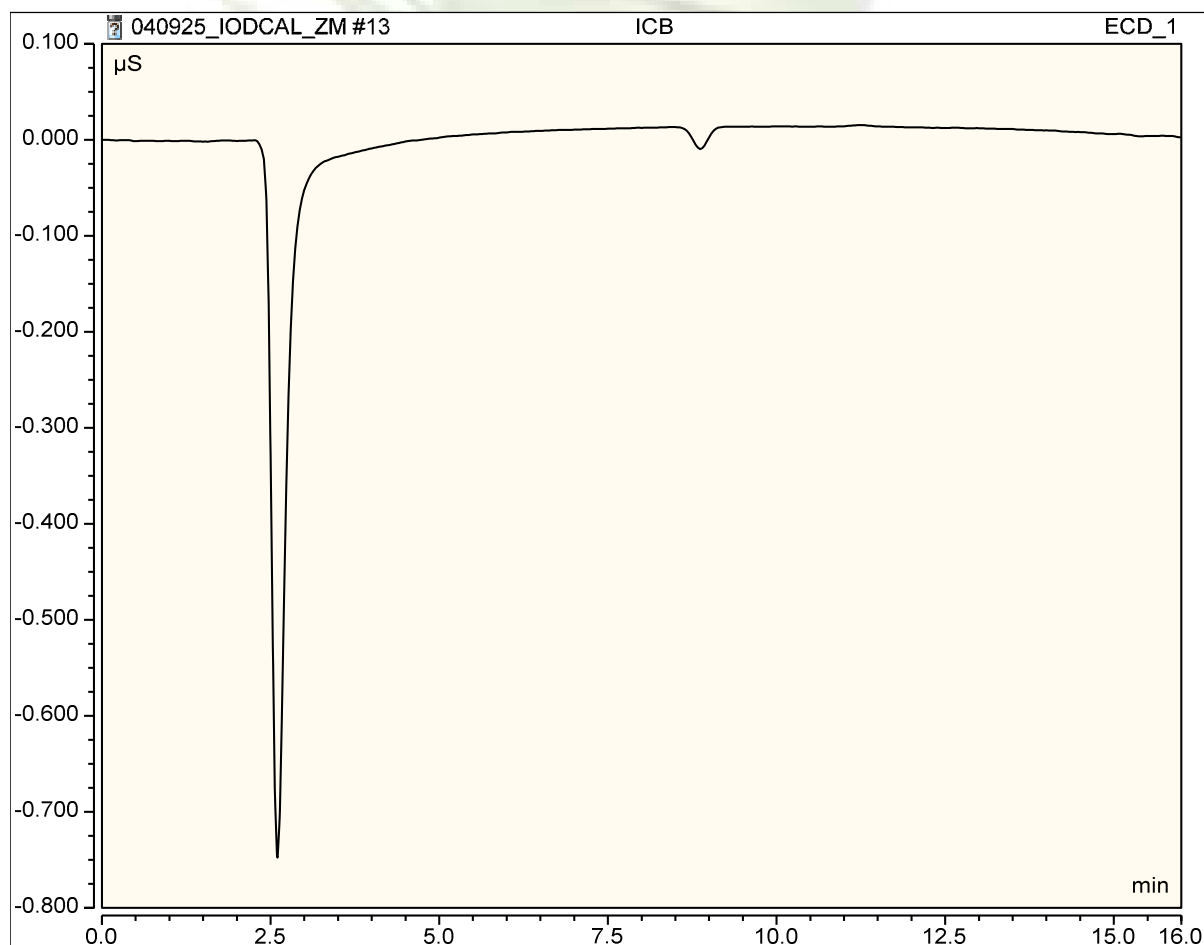
ICV			
412748			
Sample Name:	ICV	Injection Volume (uL):	25.00
Vial Number:	B3	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	412167
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	04/11/2025 09:03	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

No.	Retention Time min	Name	Amount mg/L	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
1	14.20	Iodide	5.1241	0.166	0.352	BMB



ICB			
340111			
Sample Name:	ICB	Injection Volume (uL):	25.00
Vial Number:	B1	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	412167
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	04/11/2025 09:22	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

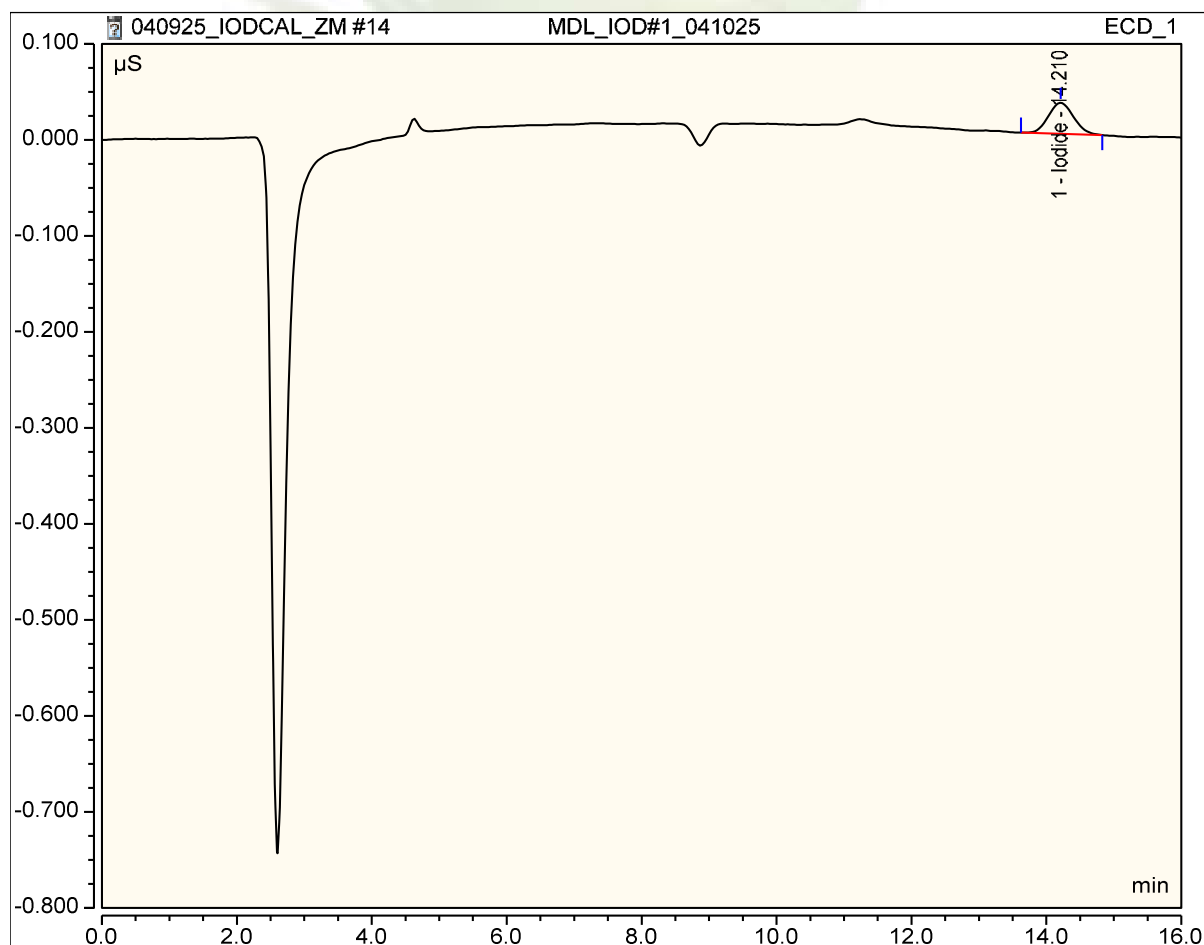
No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
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MDL_IOD#1_041025

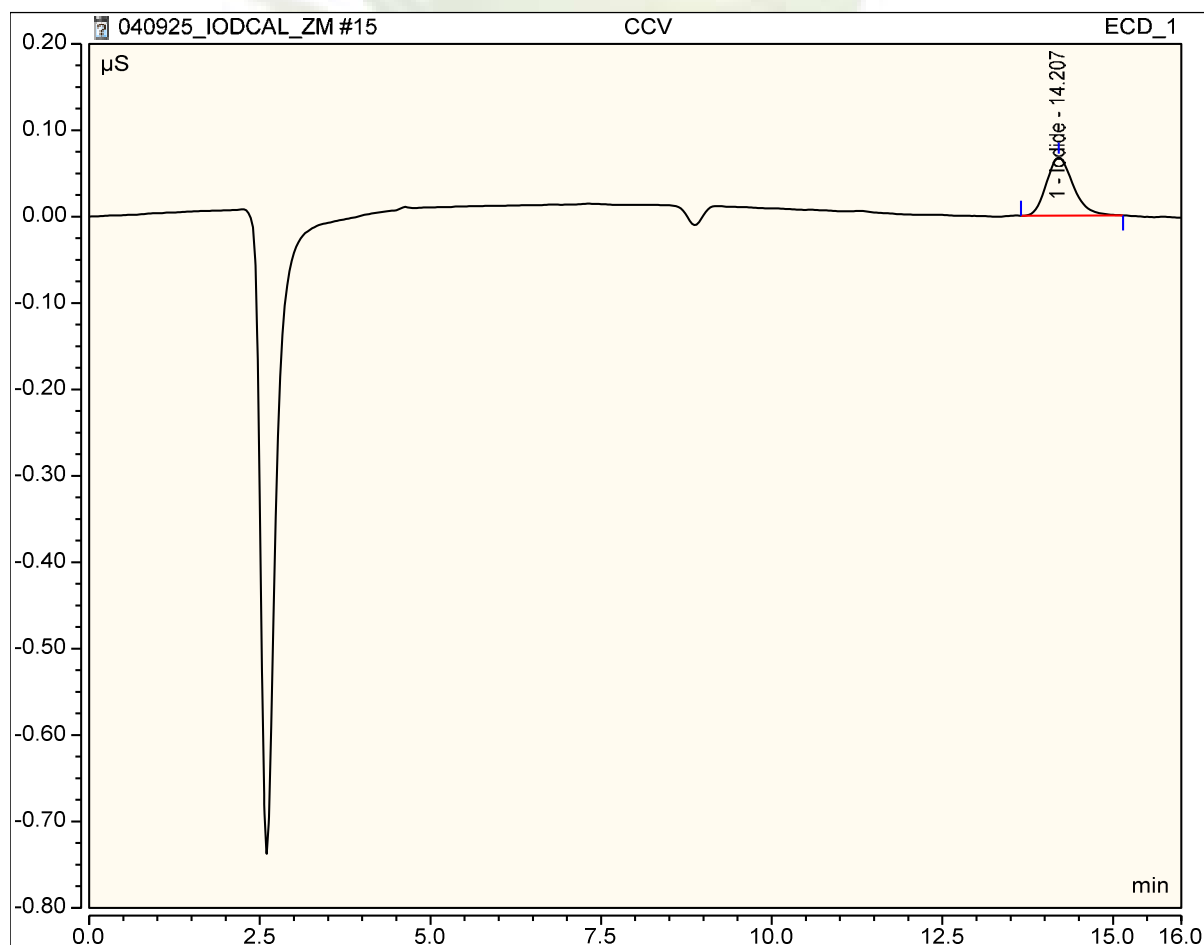
Sample Name:	MDL_IOD#1_041025	Injection Volume (uL):	25.00
Vial Number:	BA1	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	412167
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	04/11/2025 09:41	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

No.	Retention Time min	Name	Amount mg/L	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
1	14.21	Iodide	0.4739	0.014	0.032	BMB



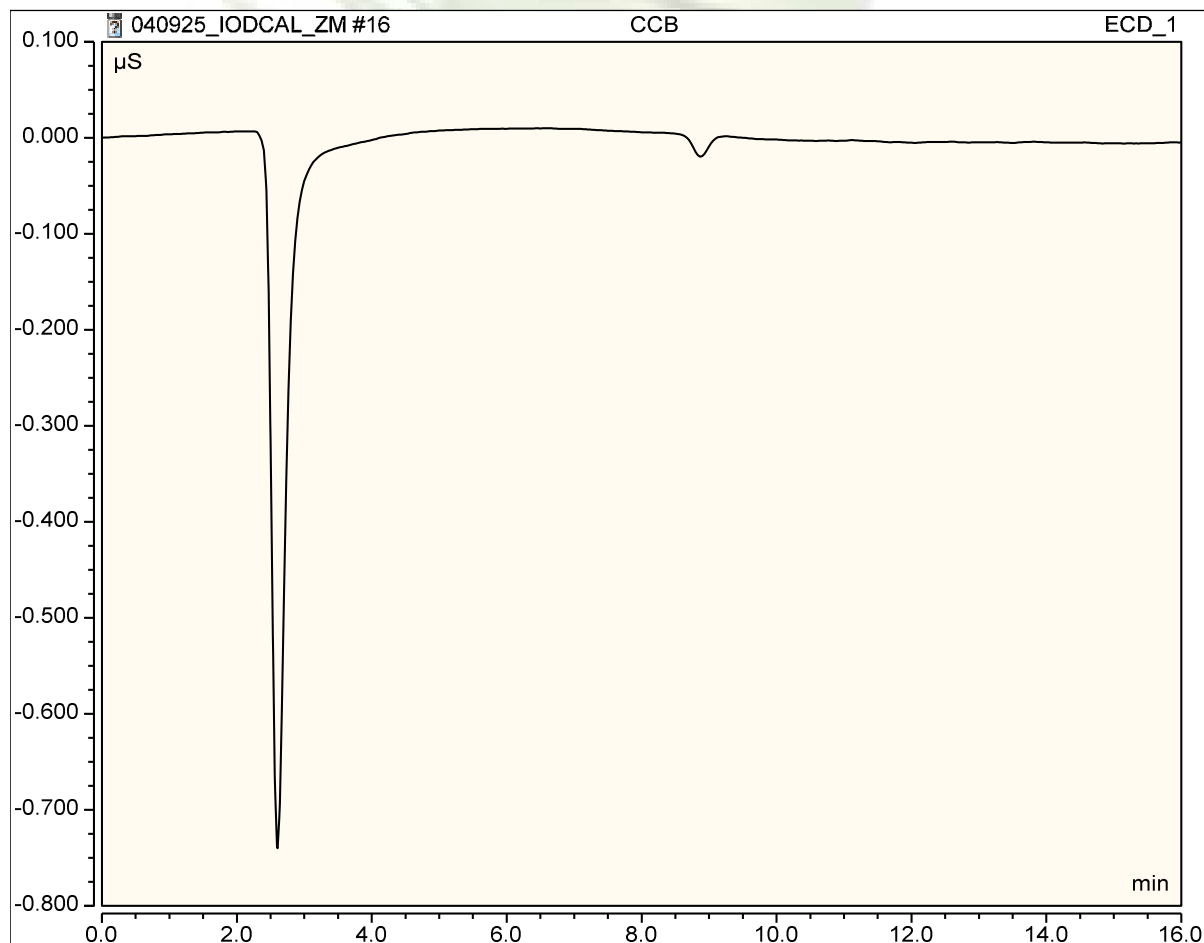
CCV			
412749			
Sample Name:	CCV	Injection Volume (uL):	25.00
Vial Number:	B2	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	412167
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	04/11/2025 10:01	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

No.	Retention Time min	Name	Amount mg/L	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
1	14.21	Iodide	0.9826	0.031	0.067	BMB



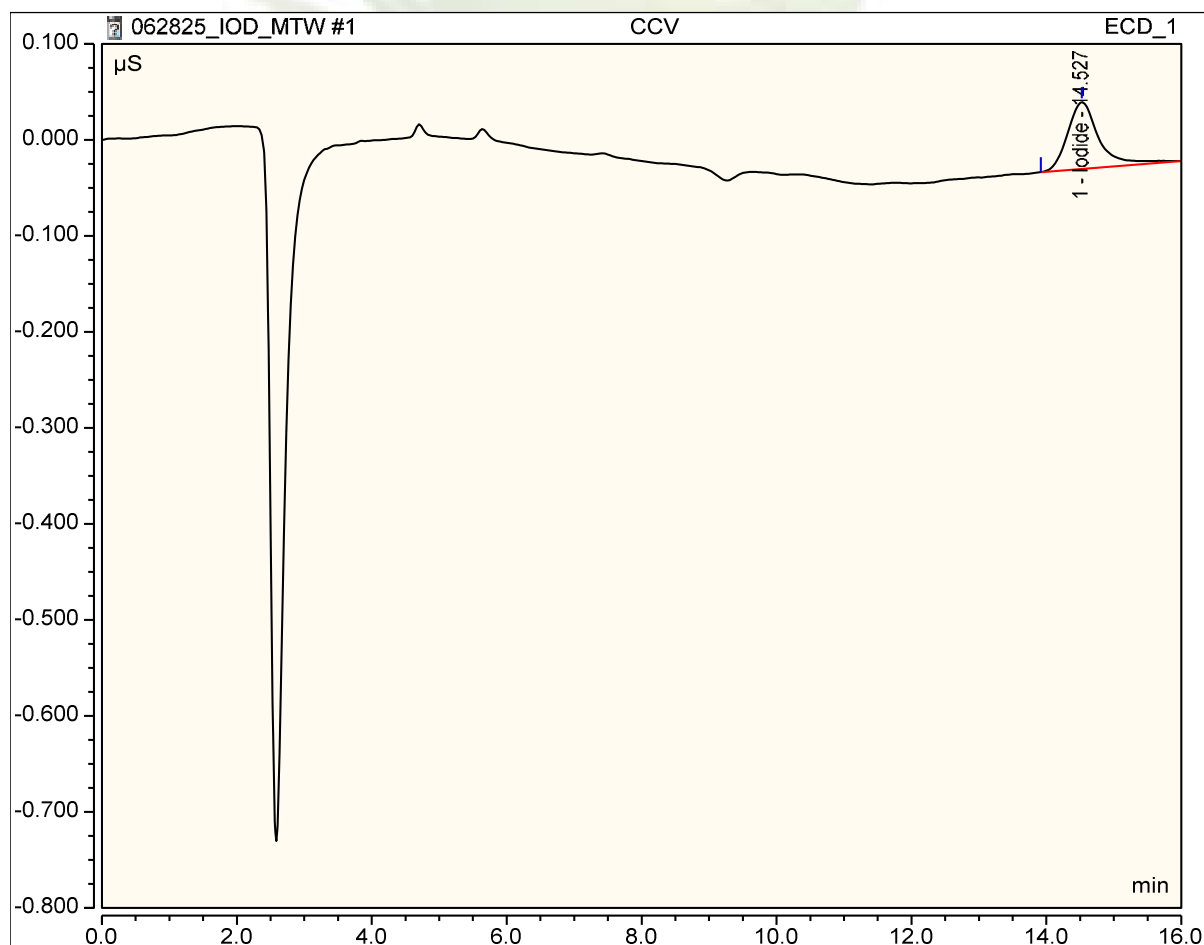
CCB			
340111			
Sample Name:	CCB	Injection Volume (uL):	25.00
Vial Number:	B1	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	412167
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	04/11/2025 10:20	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

No.	Retention Time min	Name	Amount n.a.	Area μS*min	Height μS	Type
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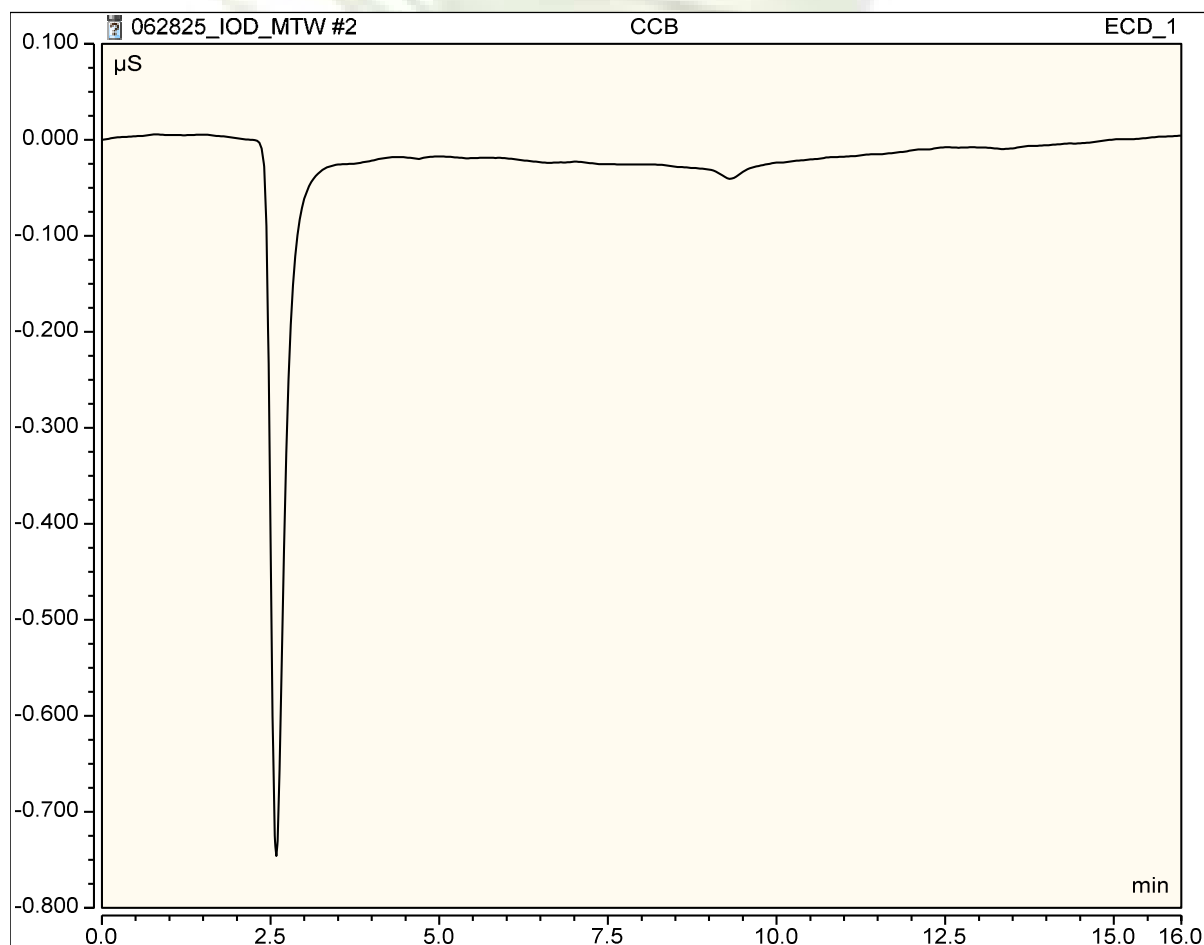
CCV			
412749			
Sample Name:	CCV	Injection Volume (uL):	25.00
Vial Number:	B2	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/28/2025 18:29	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

No.	Retention Time min	Name	Amount mg/L	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
1	14.53	Iodide	1.1911	0.037	0.070	BMB



CCB			
340111			
Sample Name:	CCB	Injection Volume (uL):	25.00
Vial Number:	B1	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/28/2025 18:48	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

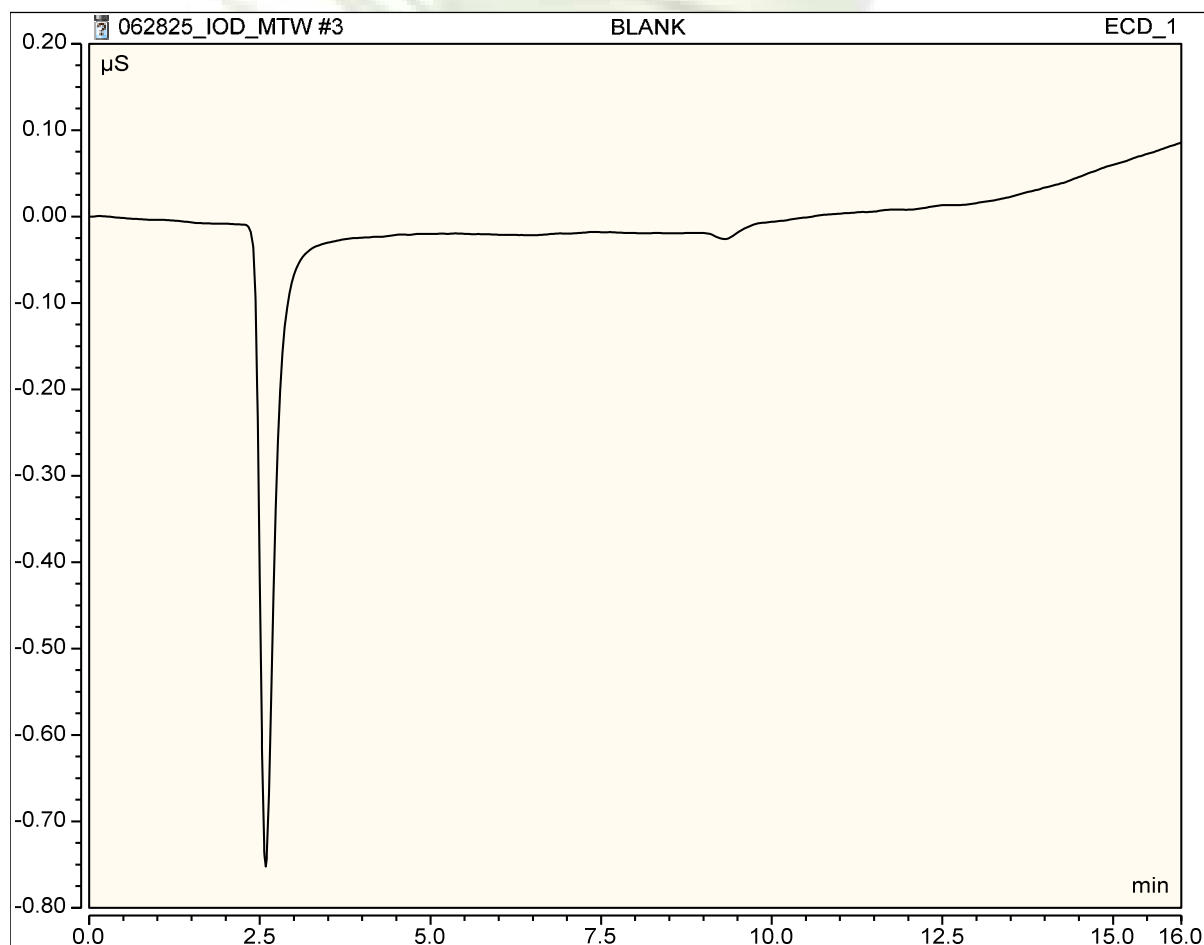
No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
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BLANK 340111

Sample Name:	BLANK	Injection Volume (uL):	25.00
Vial Number:	B4	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/28/2025 19:08	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

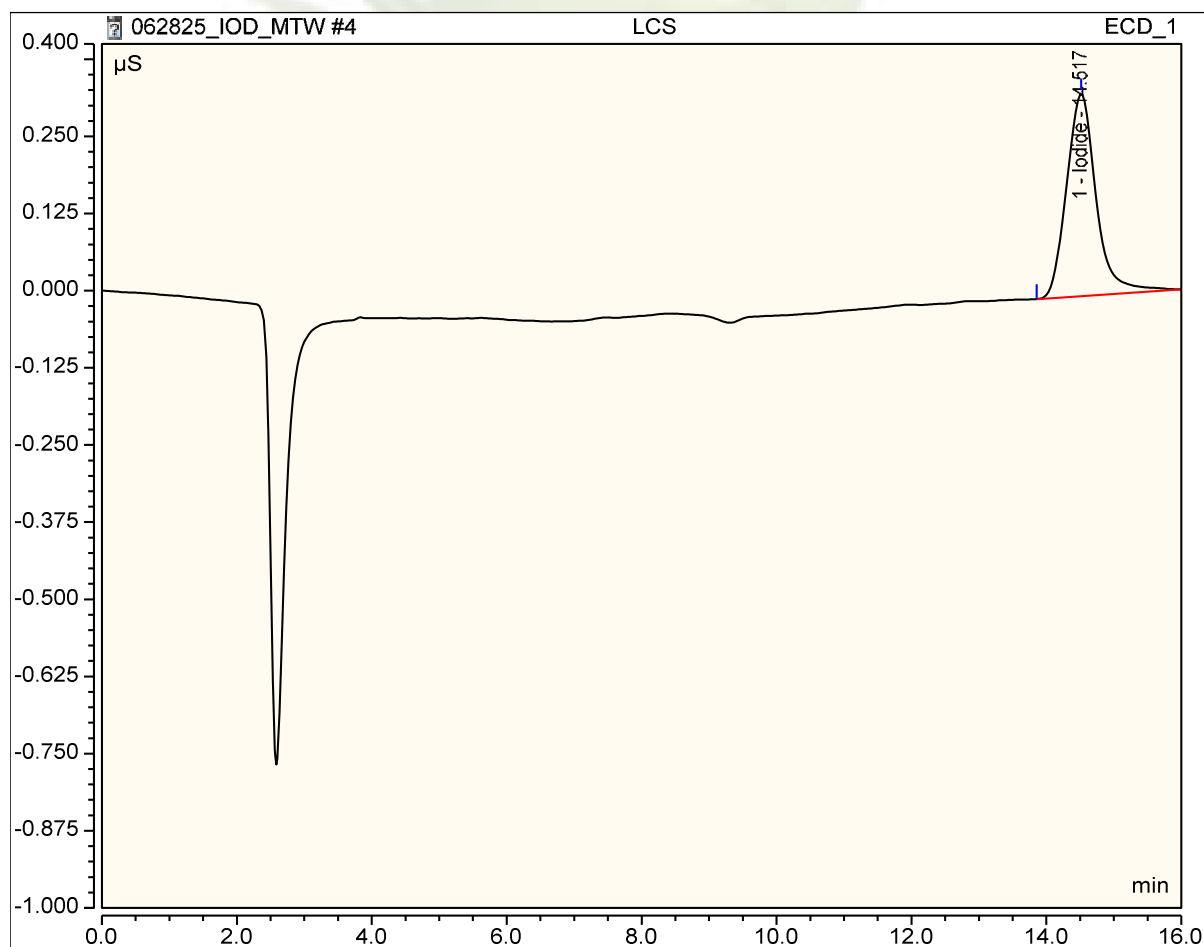
No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
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LCS

Sample Name:	LCS	Injection Volume (uL):	25.00
Vial Number:	B3	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/28/2025 19:27	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

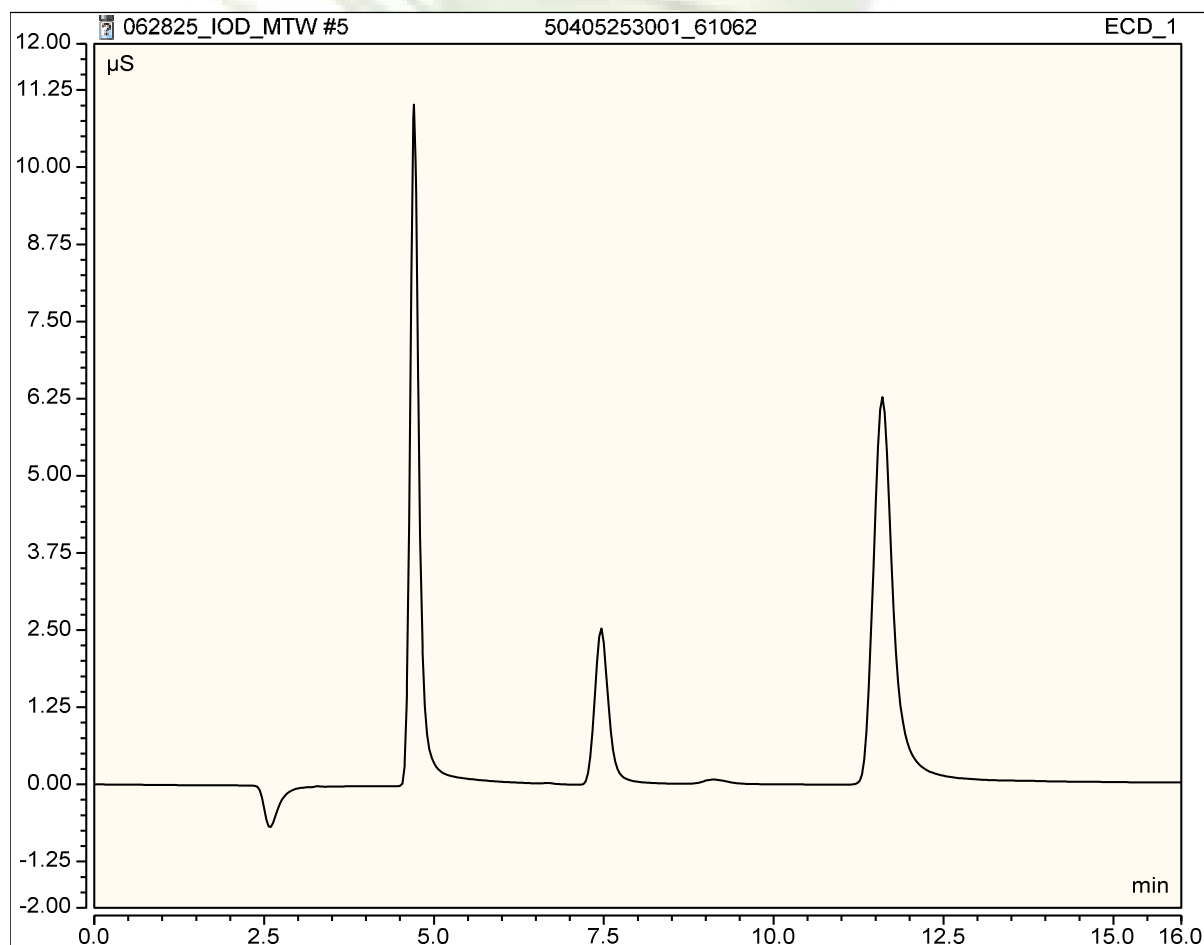
No.	Retention Time min	Name	Amount mg/L	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
1	14.52	Iodide	5.1418	0.167	0.328	BMB



50405253001_61062

Sample Name:	50405253001_61062	Injection Volume (uL):	25.00
Vial Number:	RA1	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/28/2025 19:46	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

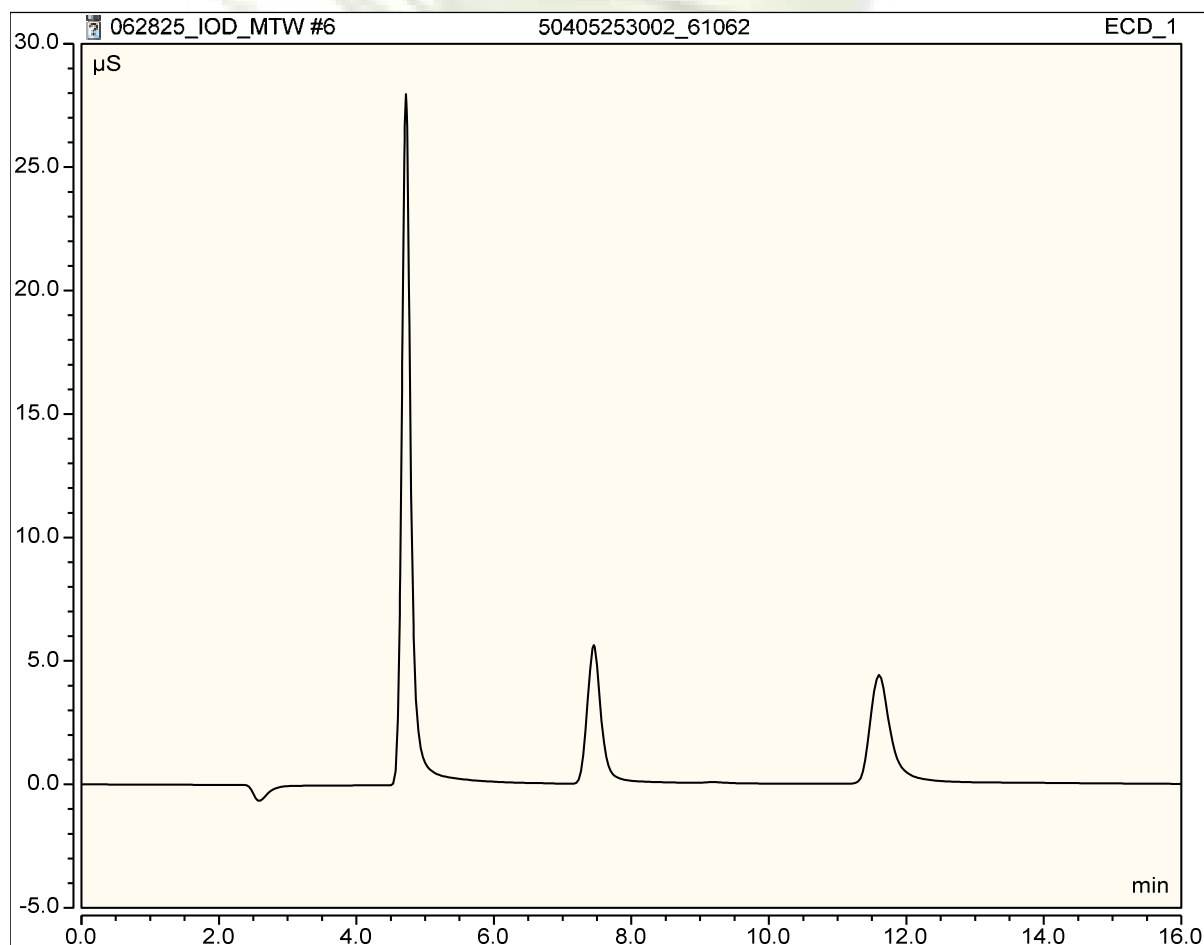
No.	Retention Time min	Name	Amount n.a.	Area μS*min	Height μS	Type
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50405253002_61062

Sample Name:	50405253002_61062	Injection Volume (uL):	25.00
Vial Number:	RA2	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/28/2025 20:06	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

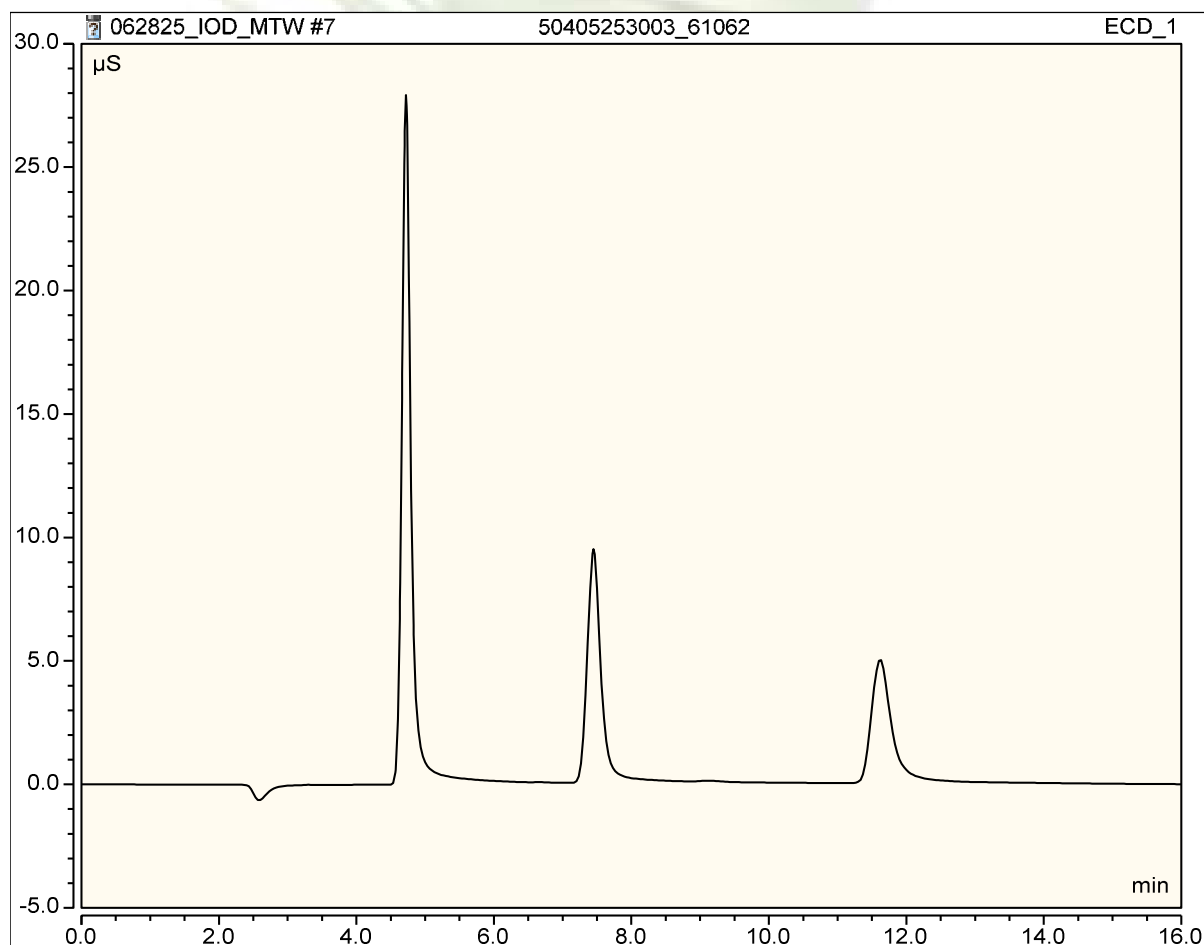
No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S} \cdot \text{min}$	Height μS	Type
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50405253003_61062

Sample Name:	50405253003_61062	Injection Volume (uL):	25.00
Vial Number:	RA3	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/28/2025 20:25	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

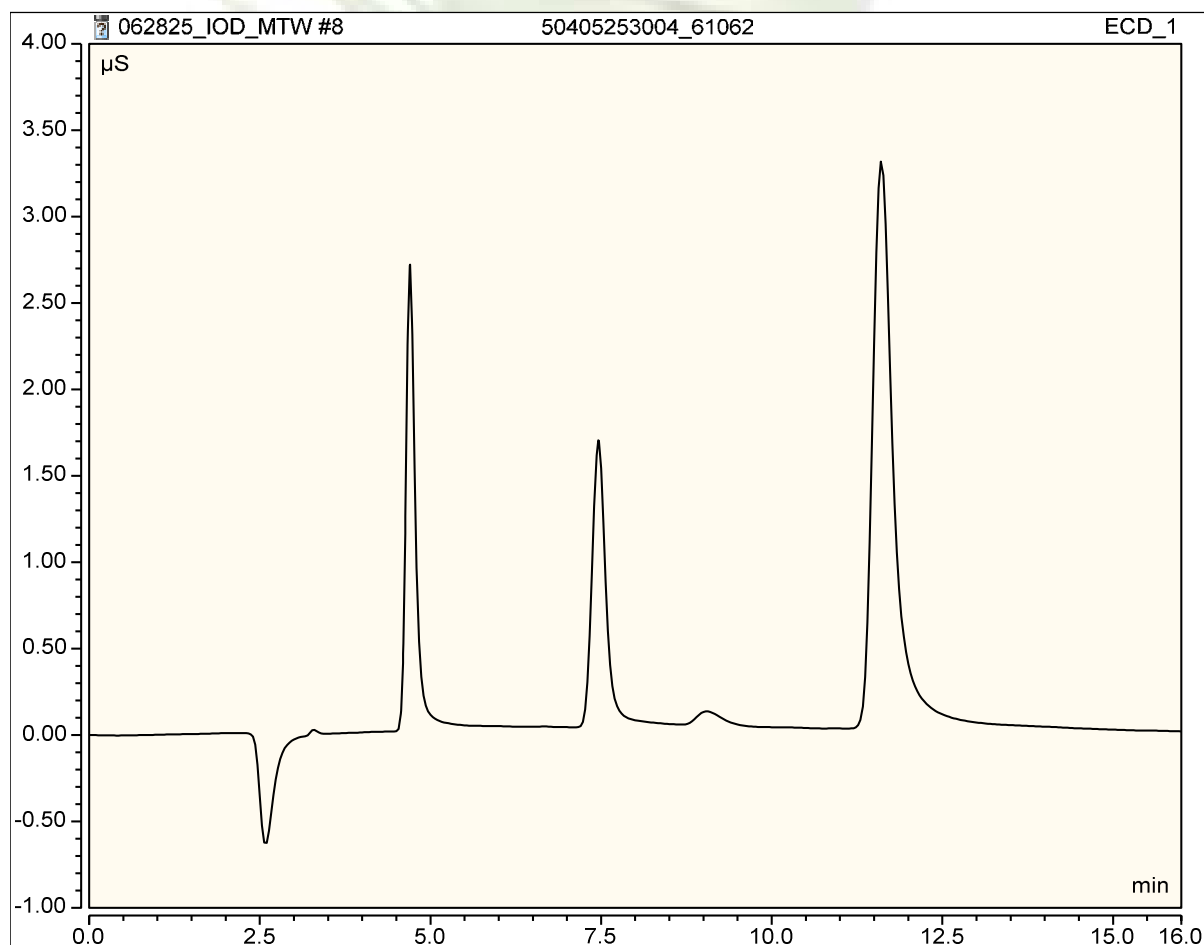
No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S} \cdot \text{min}$	Height μS	Type
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50405253004_61062

Sample Name:	50405253004_61062	Injection Volume (uL):	25.00
Vial Number:	RA4	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/28/2025 20:44	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

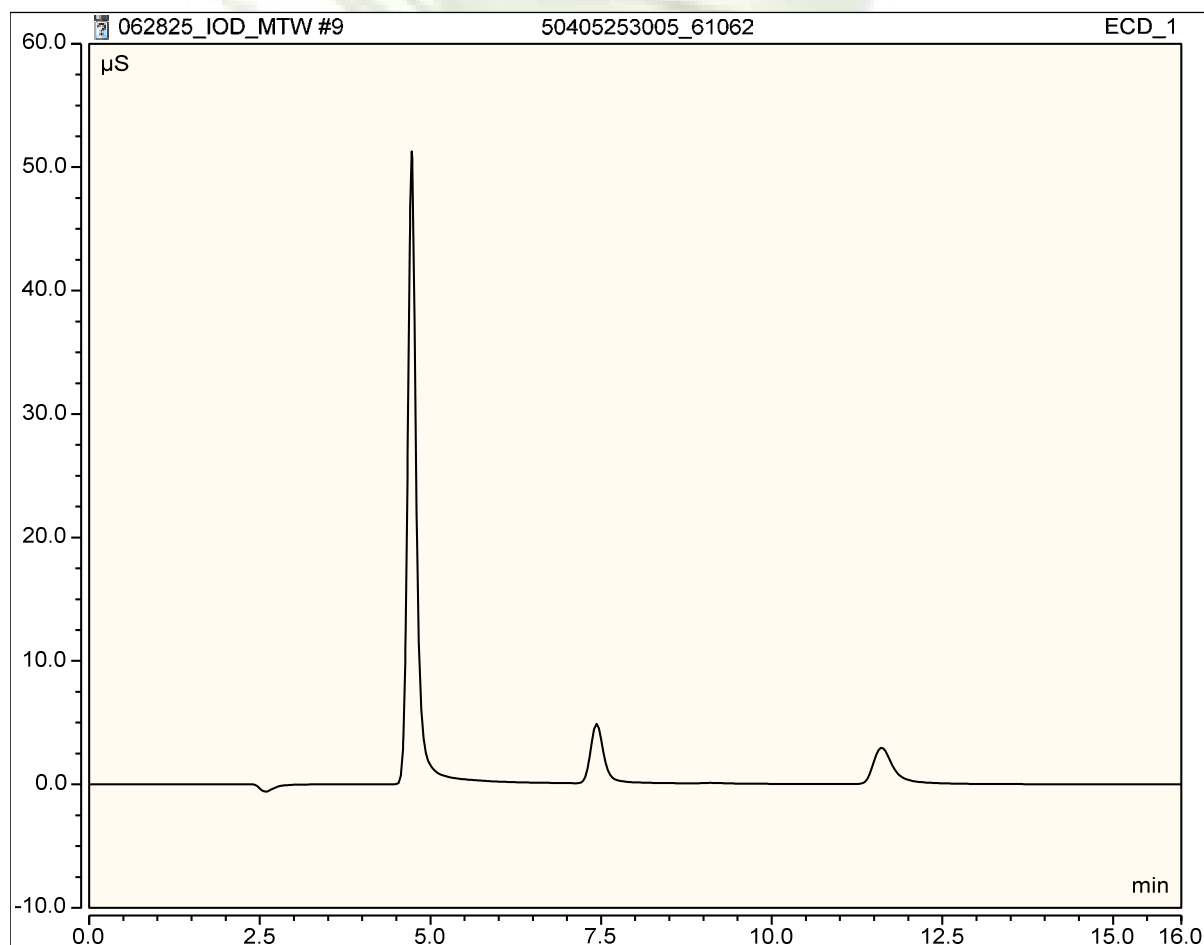
No.	Retention Time min	Name	Amount n.a.	Area μS*min	Height μS	Type
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50405253005_61062

Sample Name:	50405253005_61062	Injection Volume (uL):	25.00
Vial Number:	RA5	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/28/2025 21:03	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

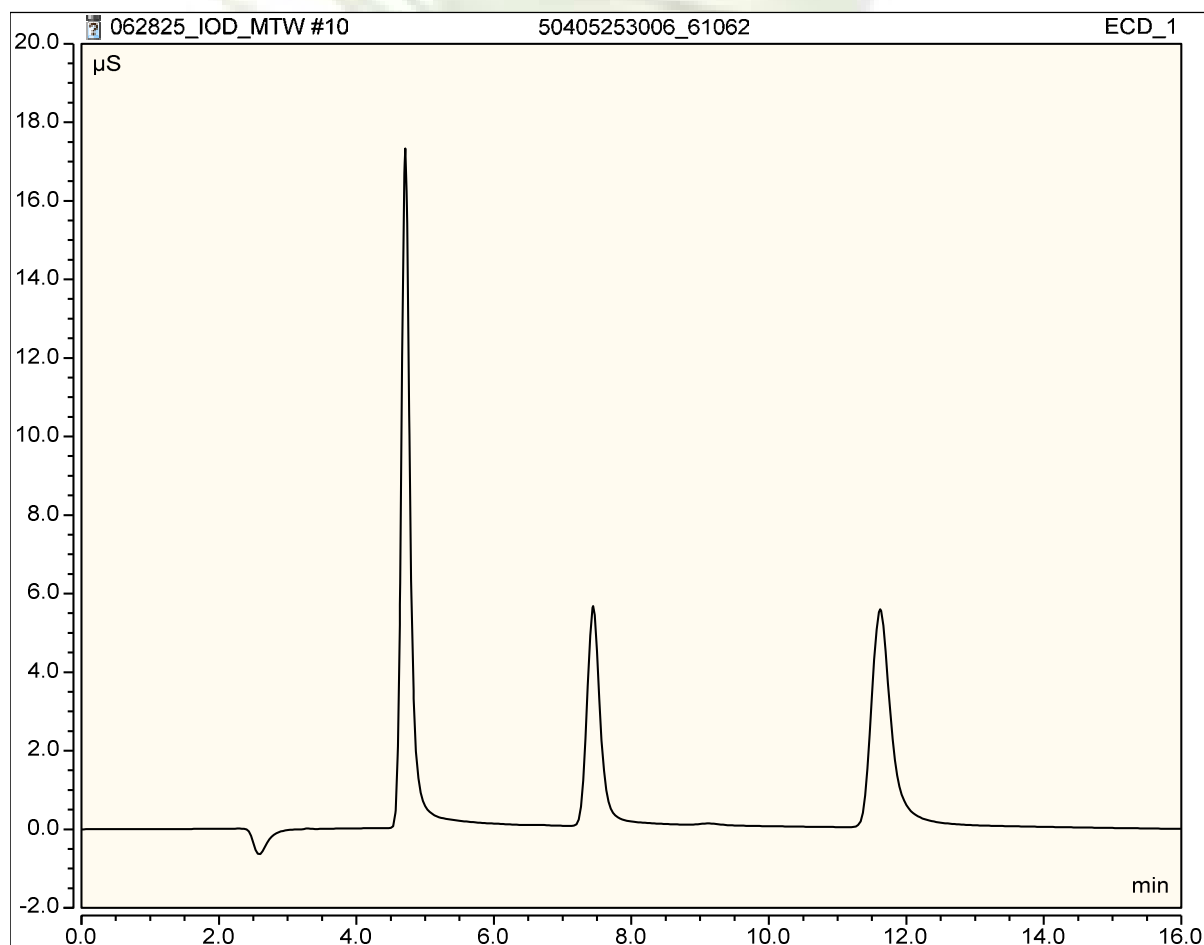
No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S} \cdot \text{min}$	Height μS	Type
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50405253006_61062

Sample Name:	50405253006_61062	Injection Volume (uL):	25.00
Vial Number:	RA6	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/28/2025 21:23	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
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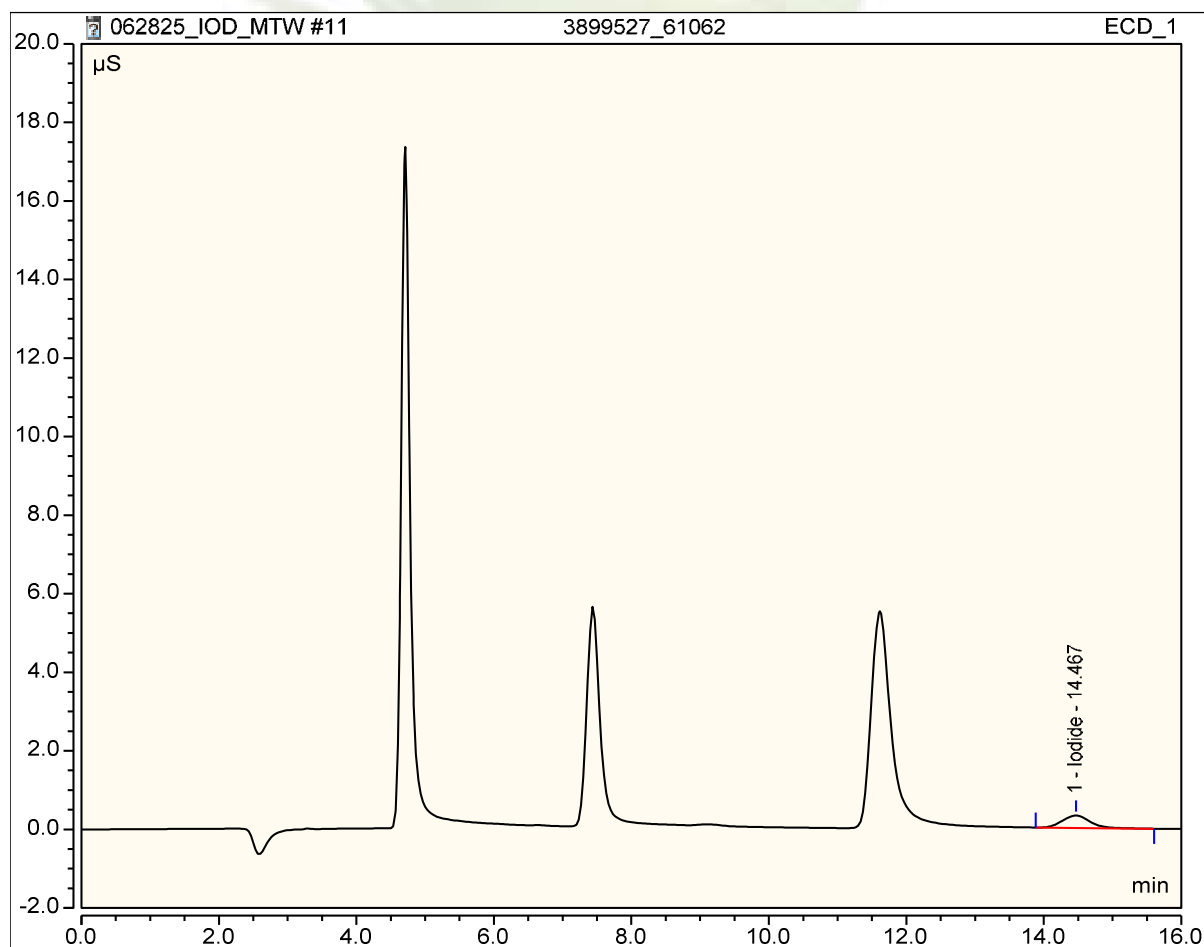


3899527_61062

412749

Sample Name:	3899527_61062	Injection Volume (uL):	25.00
Vial Number:	RA7	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/28/2025 21:42	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

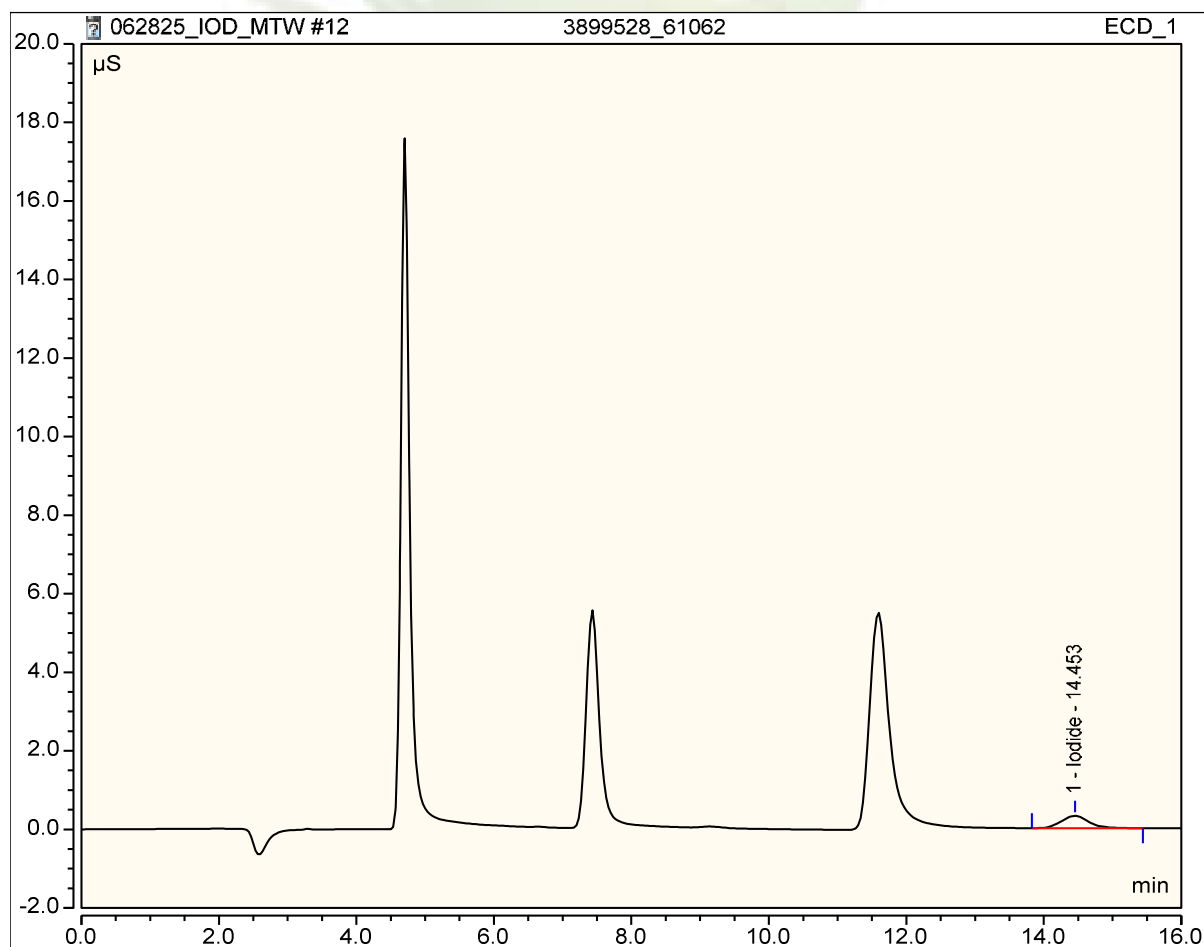
No.	Retention Time min	Name	Amount mg/L	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
1	14.47	Iodide	4.5578	0.147	0.317	BMB



3899528_61062 412749

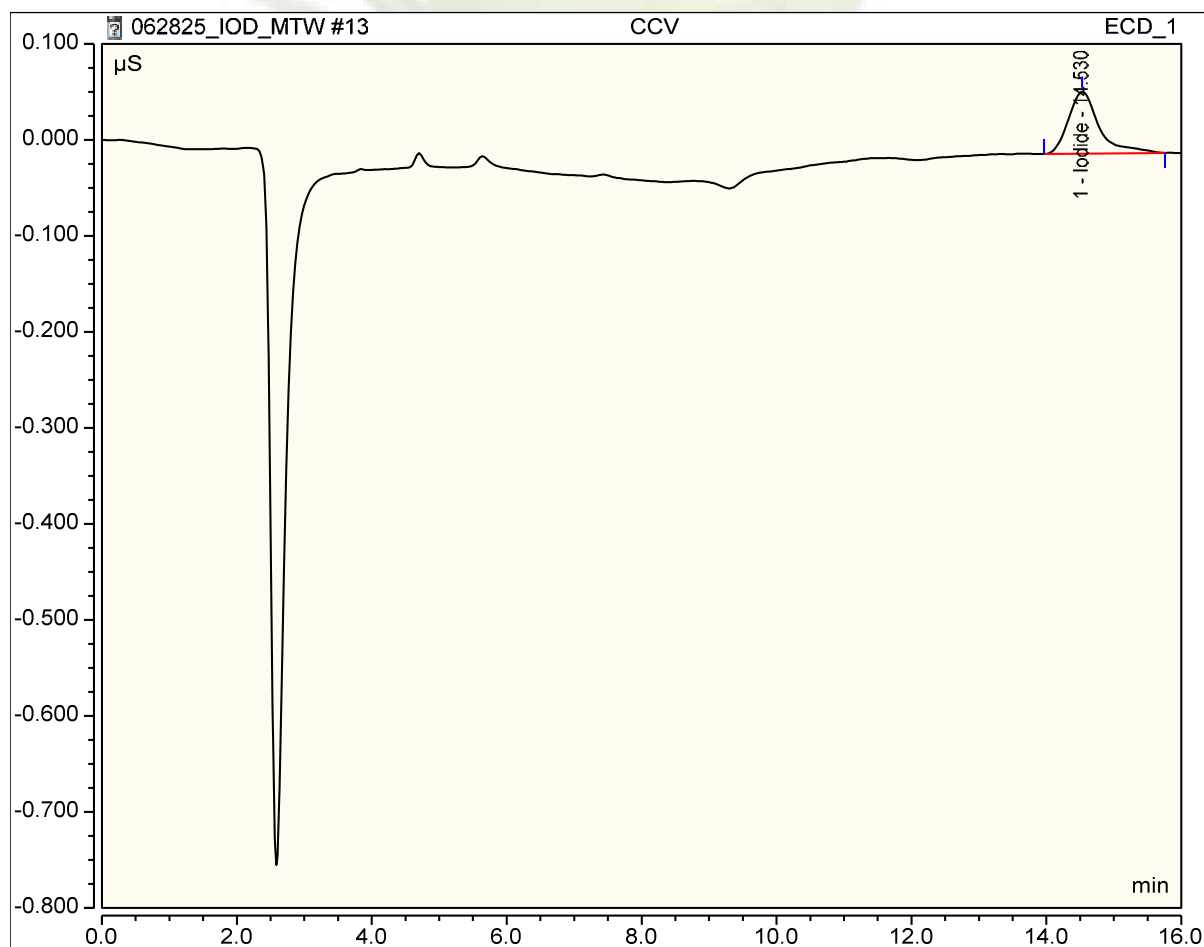
Sample Name:	3899528_61062	Injection Volume (uL):	25.00
Vial Number:	RA8	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/28/2025 22:01	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

No.	Retention Time min	Name	Amount mg/L	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
1	14.45	Iodide	4.5311	0.147	0.314	BMB



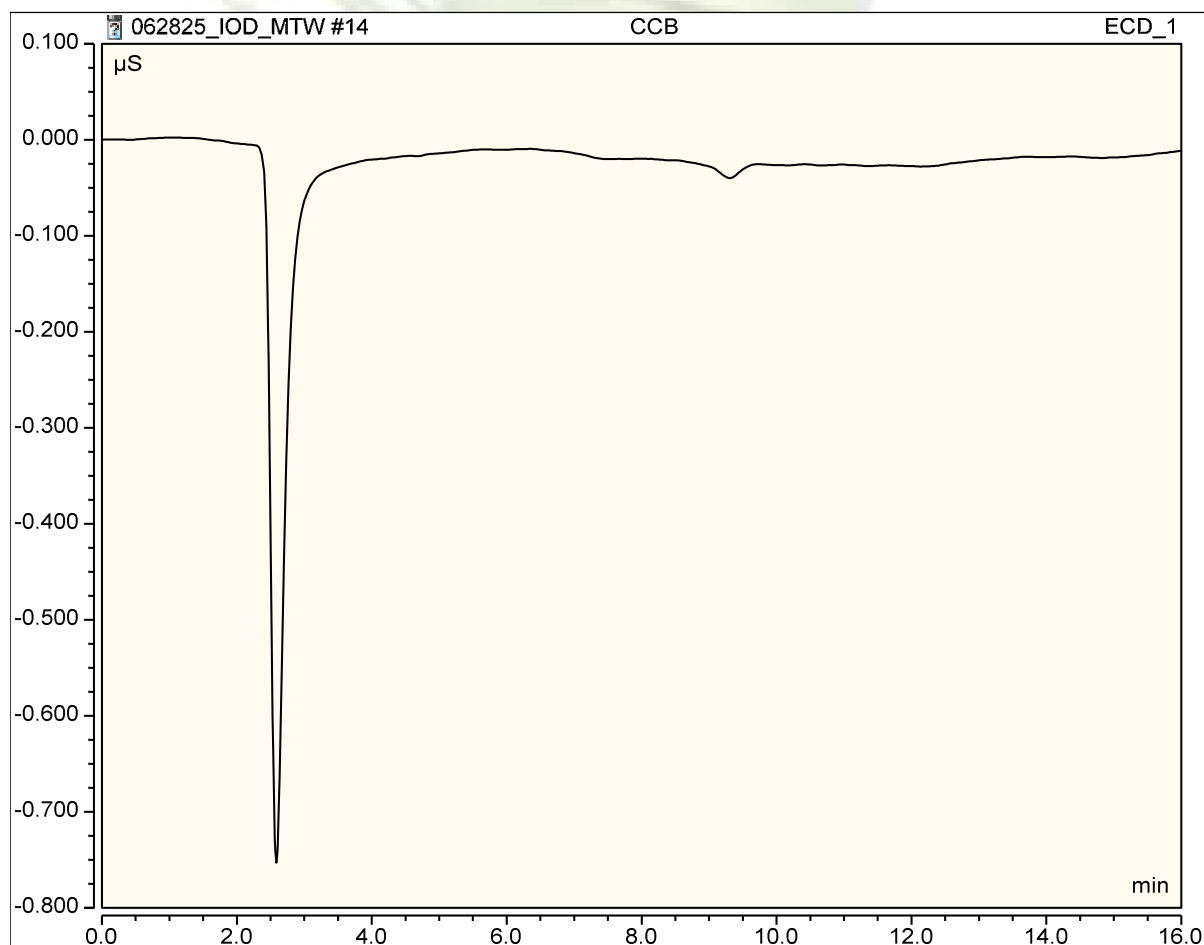
CCV			
412749			
Sample Name:	CCV	Injection Volume (uL):	25.00
Vial Number:	B2	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/28/2025 22:20	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

No.	Retention Time min	Name	Amount mg/L	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
1	14.53	Iodide	1.0874	0.034	0.065	BMB



CCB			
340111			
Sample Name:	CCB	Injection Volume (uL):	25.00
Vial Number:	B4	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/28/2025 22:40	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

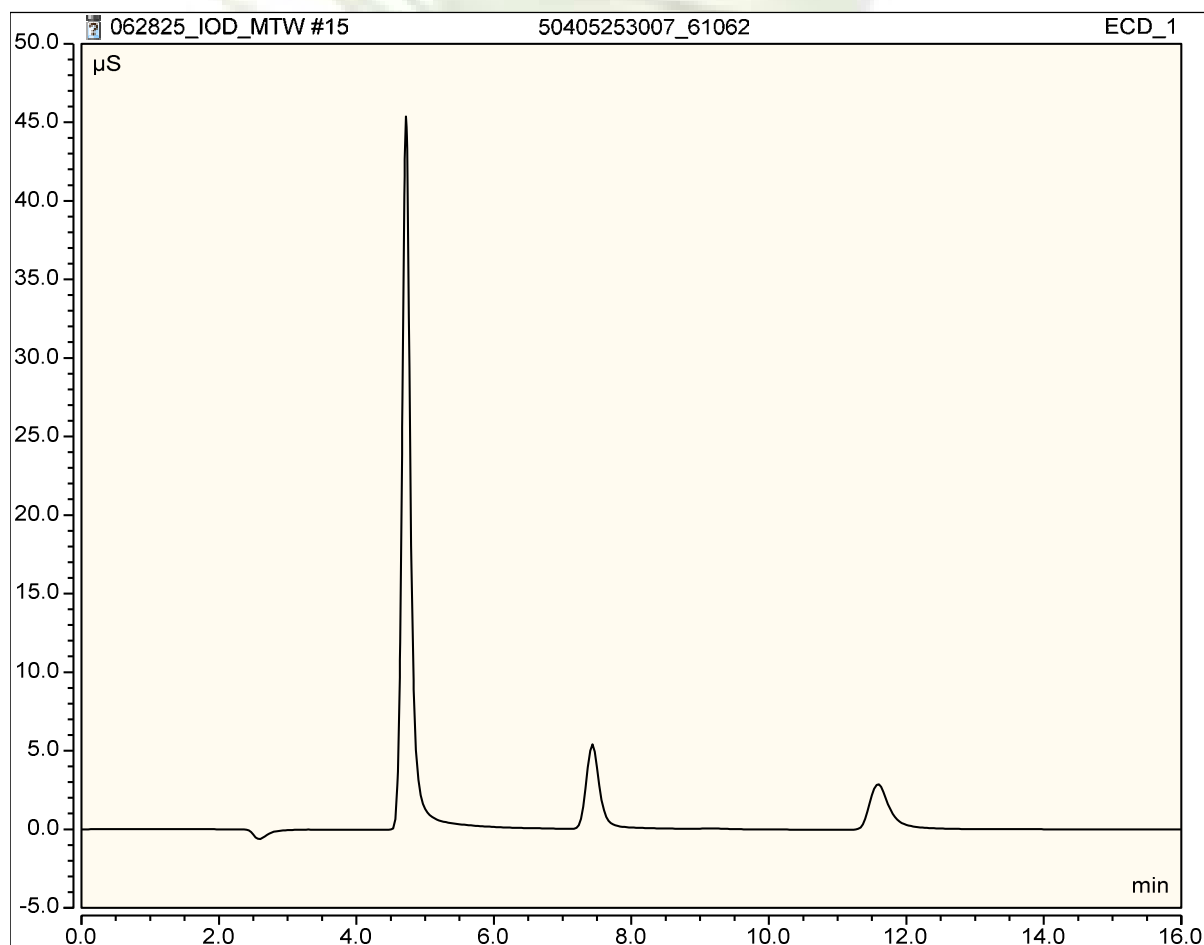
No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
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50405253007_61062

Sample Name:	50405253007_61062	Injection Volume (uL):	25.00
Vial Number:	RB1	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/28/2025 22:59	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

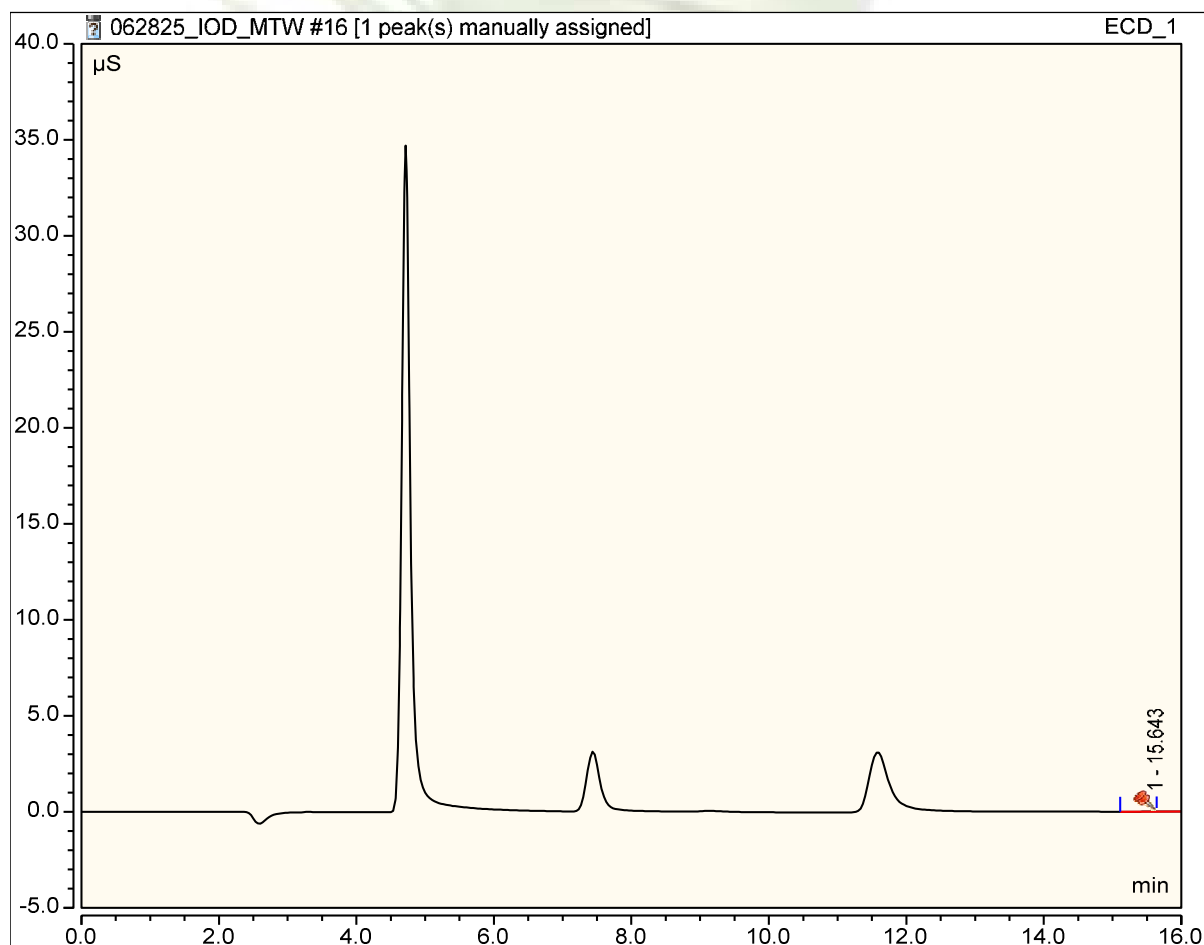
No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S} \cdot \text{min}$	Height μS	Type
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50405484001_61062

Sample Name:	50405484001_61062	Injection Volume (uL):	25.00
Vial Number:	RB2	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/28/2025 23:18	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

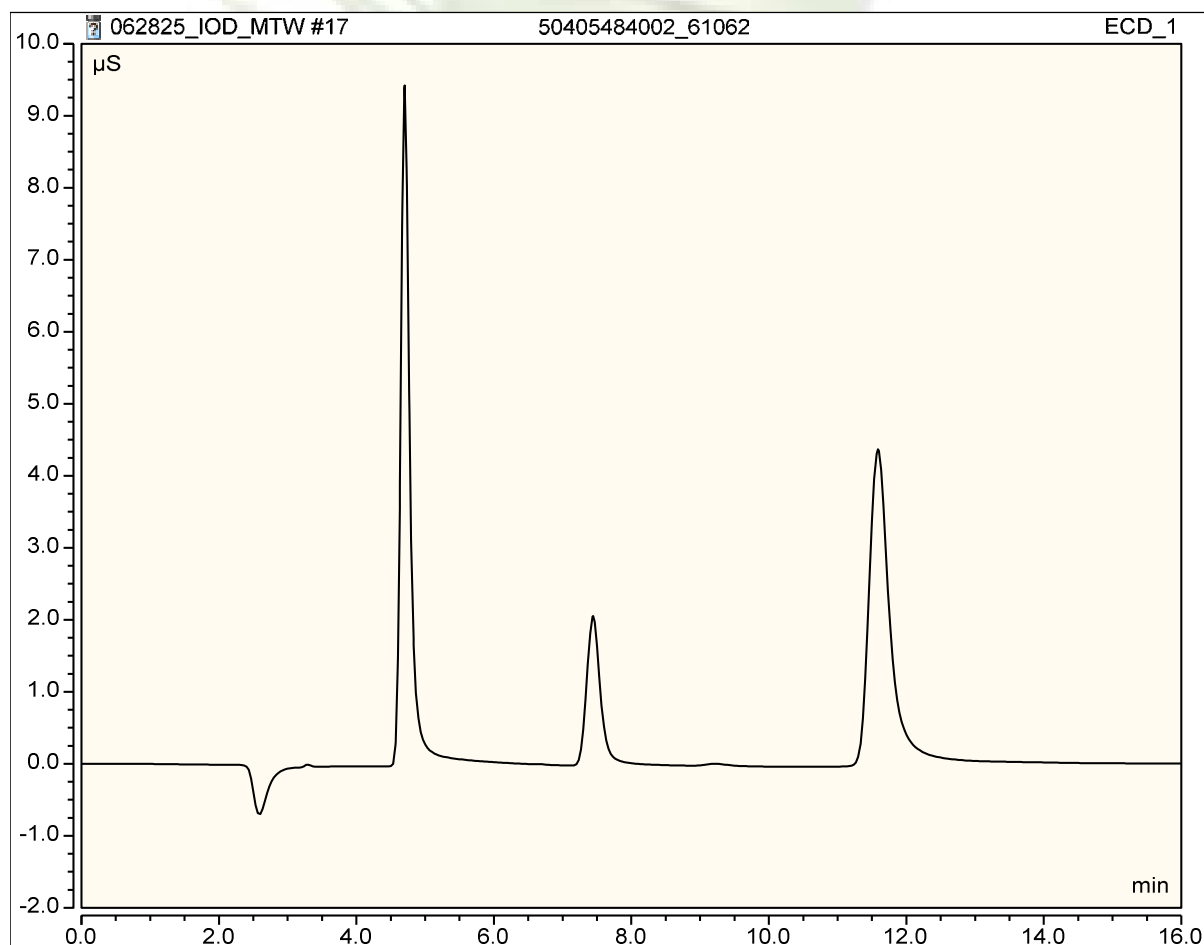
No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
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50405484002_61062

Sample Name:	50405484002_61062	Injection Volume (uL):	25.00
Vial Number:	RB3	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/28/2025 23:38	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

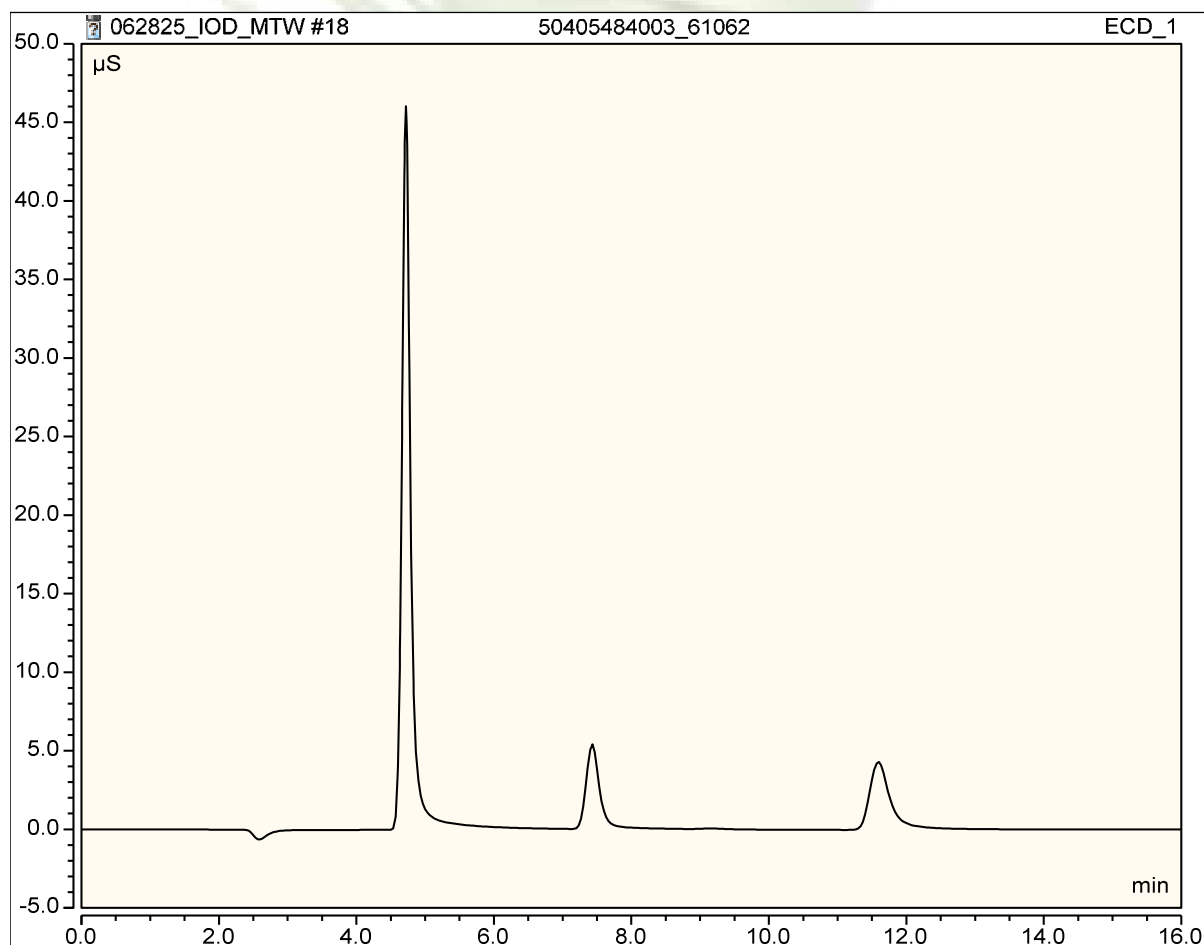
No.	Retention Time min	Name	Amount n.a.	Area μS*min	Height μS	Type
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50405484003_61062

Sample Name:	50405484003_61062	Injection Volume (uL):	25.00
Vial Number:	RB4	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/28/2025 23:57	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

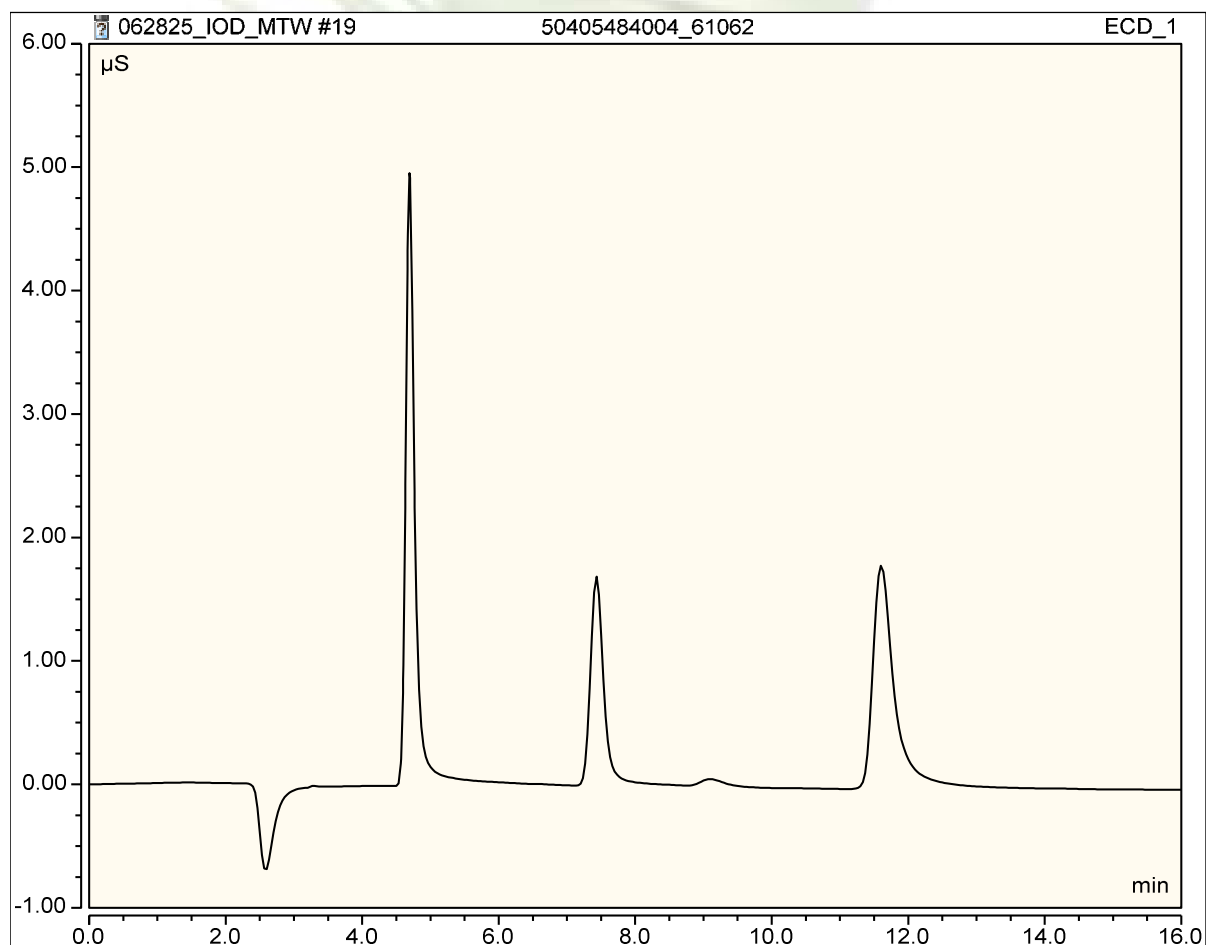
No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S} \cdot \text{min}$	Height μS	Type
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50405484004_61062

Sample Name:	50405484004_61062	Injection Volume (uL):	25.00
Vial Number:	RB5	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/29/2025 00:16	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

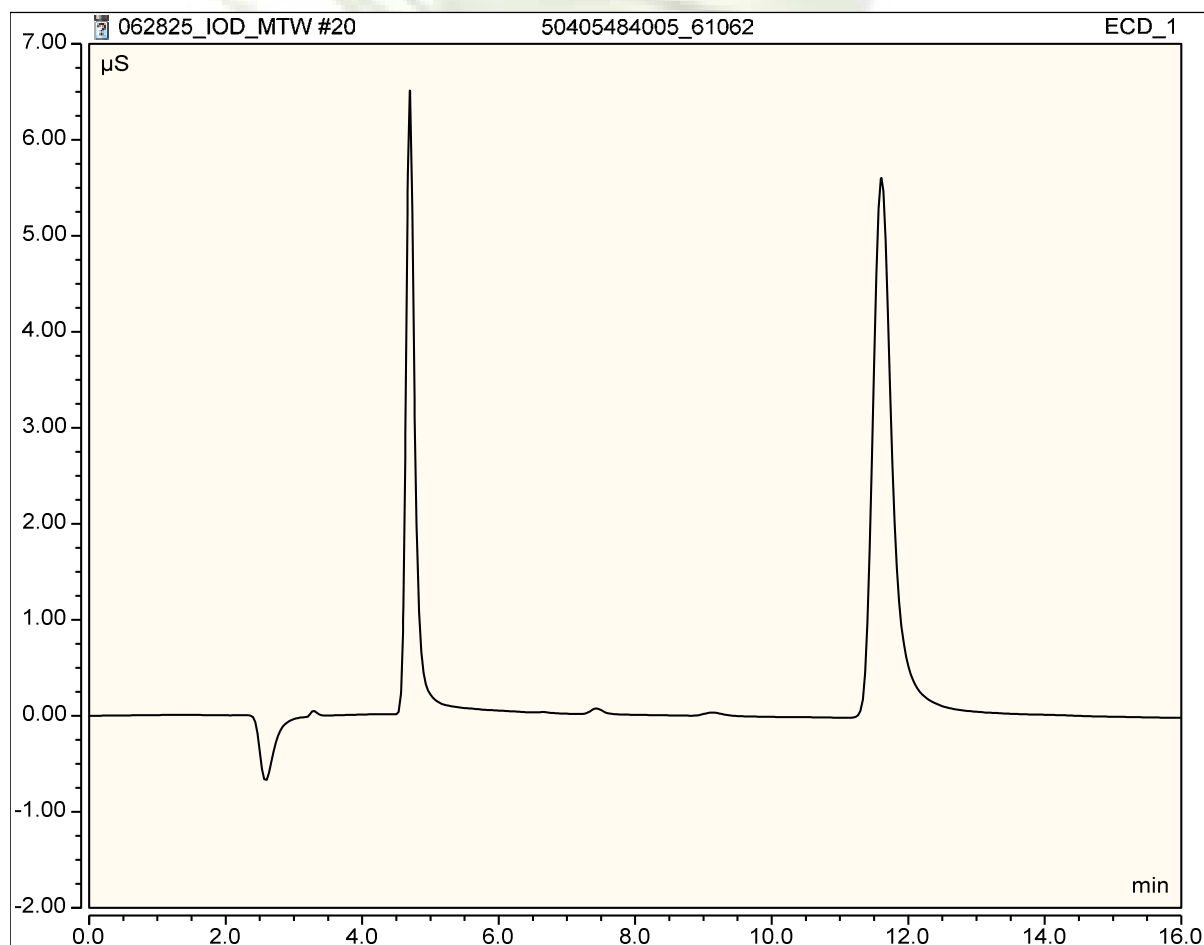
No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
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50405484005_61062

Sample Name:	50405484005_61062	Injection Volume (uL):	25.00
Vial Number:	RB6	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/29/2025 00:35	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

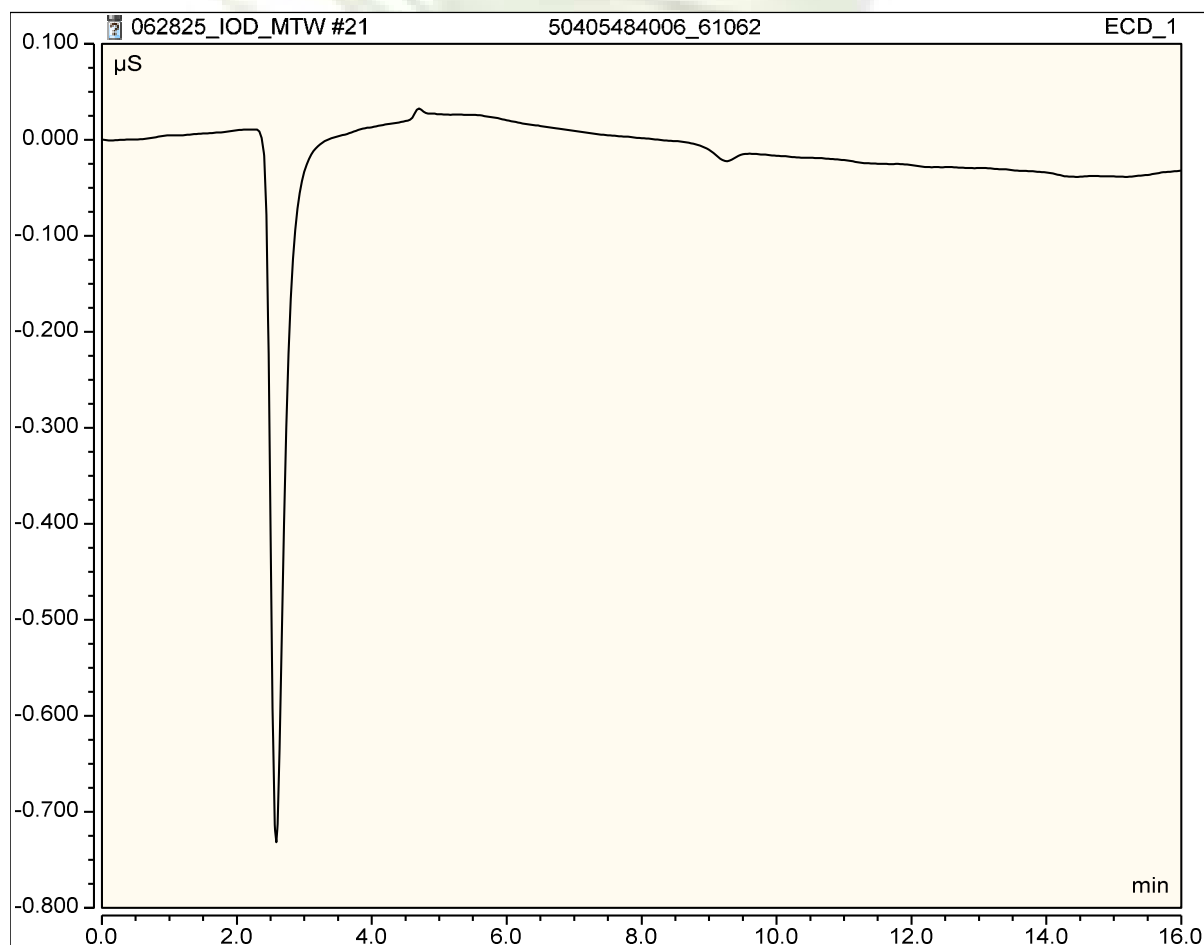
No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
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50405484006_61062

Sample Name:	50405484006_61062	Injection Volume (uL):	25.00
Vial Number:	RB7	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/29/2025 00:55	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

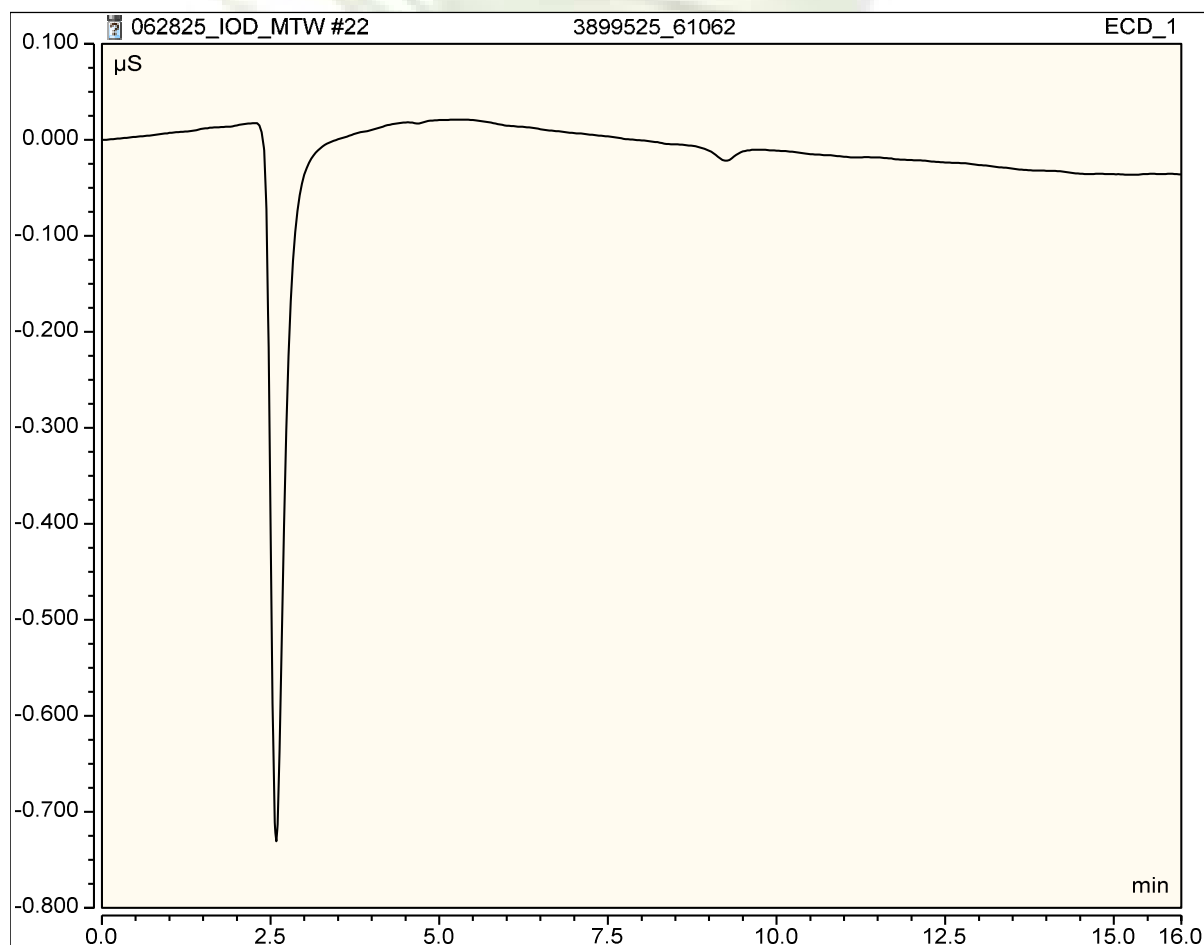
No.	Retention Time min	Name	Amount n.a.	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
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3899525_61062 **412749**

Sample Name:	3899525_61062	Injection Volume (uL):	25.00
Vial Number:	B4	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/29/2025 01:14	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

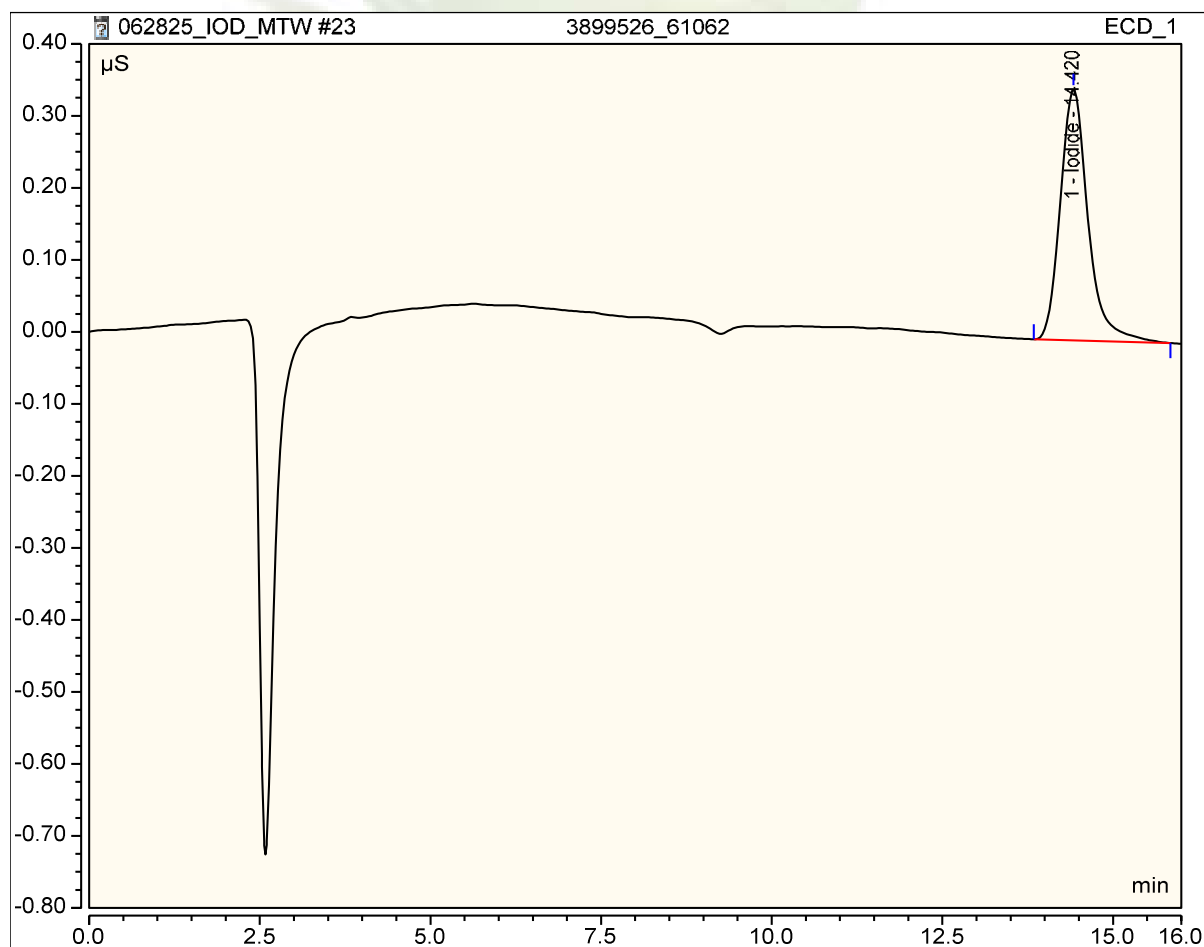
No.	Retention Time min	Name	Amount n.a.	Area μS*min	Height μS	Type
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3899526_61062 340111

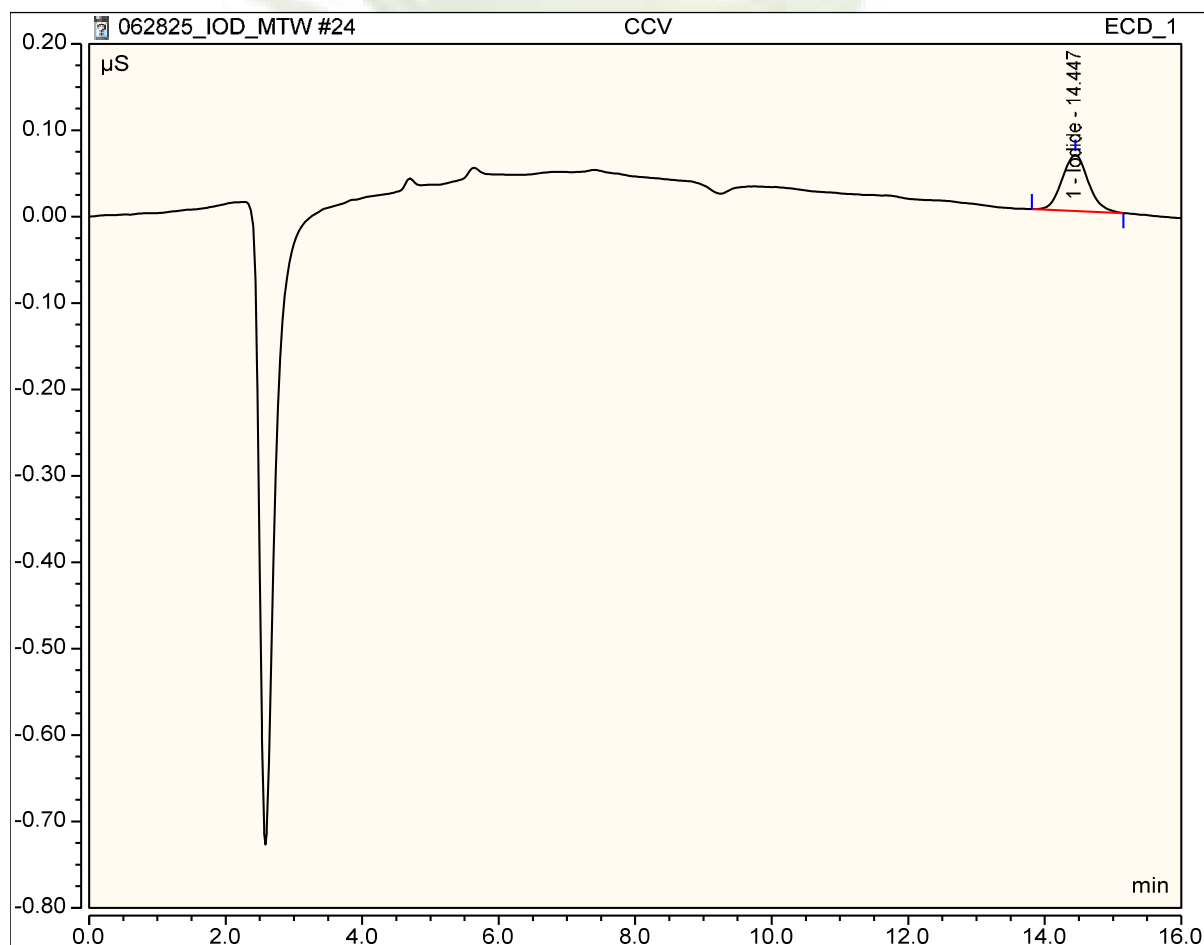
Sample Name:	3899526_61062	Injection Volume (uL):	25.00
Vial Number:	B3	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/29/2025 01:33	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

No.	Retention Time min	Name	Amount mg/L	Area $\mu\text{S}\cdot\text{min}$	Height μS	Type
1	14.42	Iodide	5.0684	0.164	0.349	BMB



CCV			
412749			
Sample Name:	CCV	Injection Volume (uL):	25.00
Vial Number:	B2	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/29/2025 01:53	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

No.	Retention Time min	Name	Amount mg/L	Area μS*min	Height μS	Type
1	14.45	Iodide	0.9313	0.029	0.065	BMB



CCB			
340111			
Sample Name:	CCB	Injection Volume (uL):	25.00
Vial Number:	B1	Channel:	ECD_1
Sample Type:	Unknown	Calibration:	04/10/25 16:14
Control Program:	50IC04IOD	Eluent Stock:	416359
Quantif. Method:	CAL_IODIDE04	Dilution Factor	1.0000
Recording Time:	06/29/2025 02:12	Sample Weight:	1.0000
Run Time (min):	16.00	System Name:	50IC04

No.	Retention Time min	Name	Amount n.a.	Area μS*min	Height μS	Type
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