GANNETT FLEMING ENGINEERS, P.C.
100 Crossways Park Drive West
Suite 300
Woodbury, NY 11797

Office: (516) 671-4140
Fax: (516) 921-1565
Internet:www.gannettfleming.com

July 24, 2014
Project # 53319.008

Ainura Doronova, Environmental Engineer 1
New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 2
47-40 21st Street
Long Island City, NY 11101-5407

Re: Fifth Post-Remediation Performance Monitoring Letter Report
NYSDEC Spill No. 1100020
Cooper Tank and Welding Corporation
225 Moore Street, Brooklyn, NY

Dear Ms. Doronova:

Gannett Fleming Engineers, P.C. (GF), on behalf of Cooper Tank and Welding Corporation (Cooper), has prepared this Fifth Post-Remediation Performance Monitoring Letter Report (Fifth Report) to document and summarize the groundwater analytical results from the post-remedial groundwater performance monitoring program which followed completion of the remedial injection program (remedy) implemented at Cooper, 225 Moore Street, Brooklyn, New York (the "Site") from September 17 through September 28, 2012. This report evaluates the concentration trends of Constituents of Concern (COC's) at Cooper through five groundwater sampling events following completion of the remedy. Performance monitoring was conducted in accordance with the New York State Department of Environmental Conservation (NYSDEC)-approved Remedial Action Work Plan (RAWP) dated May, 2012, the 8/13/2013 letter from NYSDEC requesting two additional monitoring events, and the June 5, 2014 request from NYSDEC to sample monitoring well MW-SE-7 in the area of the site historically referred to as "AOC-1". This Fifth Report follows submittal of the *11/14/2012 Status Report*, the *6/7/2013 Second Quarterly Post-Remediation Performance Monitoring Letter Report*, the *10/22/2013 Third Quarterly Post-Remediation Performance Monitoring Letter Report*, and the *1/29/2014 Fourth Quarterly Post-Remediation Performance Monitoring Letter Report* prepared by GF.

Post-Remedial Data Evaluation

As per the June 5, 2014 request of NYSDEC, a fifth performance monitoring event was conducted on June 12, 2014, approximately 20 months after completion of the remedy. The June 12, 2014 performance monitoring event required sampling from only one monitoring well (MW-SE-7) in AOC-1.

Groundwater samples during all sampling events were consistently laboratory analyzed for the VOC's listed in Table 2 of CP-51 SCG, by USEPA Method 8260. Free product had not been detected on or off-site in any of the historical investigations conducted by GF, was not detected during baseline sampling, and was not detected during the fifth post-remedial groundwater monitoring event. As detailed in Table 1 and plotted on attached Figures 2 through 4, post-remedial groundwater data supports the following conclusions:

- Groundwater analytical results from MW-SE-7 within the primary Area Of Concern (AOC-1) demonstrate a 93% reduction in Benzene (3,300 µg/L in August 2012 to 240 µg/L in June 2014), 96% reduction in Benzene, Toluene, Ethylbenzene, and total Xylenes (BTEX) compounds (11,290 µg/L in August 2012 to 432 µg/L in June 2014), and 96% reduction in total VOC's (14,746 µg/L in August 2012 to 650 µg/L in June 2014).

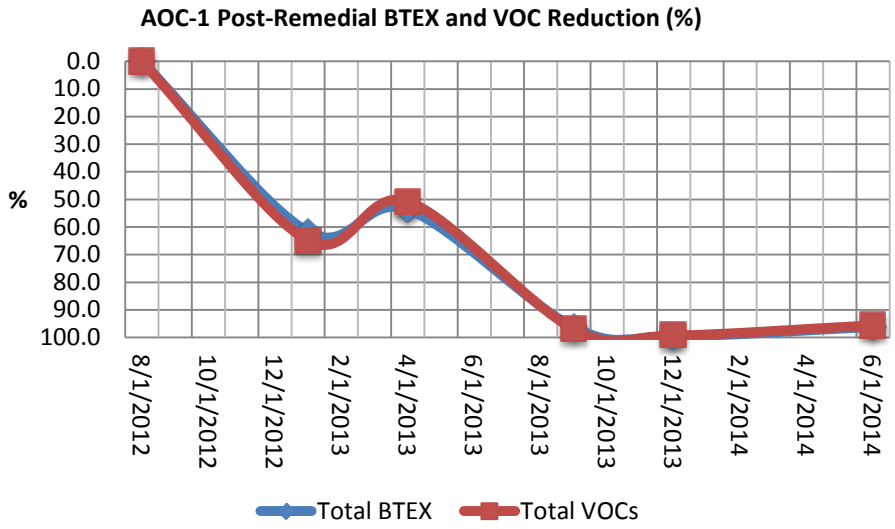


Figure 2.

Concentrations of Total BTEX and Total VOCs in AOC-1 plotted from 8/7/2012 through 6/12/2014 demonstrating a sharp and steady decreasing trend of COCs in AOC-1 since completion of the remedy.

- As previously reported, groundwater analytical results from on-site monitoring wells required for sampling during the 9/25/2013 and 12/20/2013 monitoring events (MW-SE-7 and MW-SE-9) representing AOC-1 and AOC-2 demonstrated a 98% reduction in Benzene (3,440 µg/L in August 2012 to 75 µg/L in December 2013), 99% reduction in BTEX compounds (11,458 µg/L in August 2012 to 138.8 µg/L in December 2013), and 98% reduction in total measured VOC's (15,290 µg/L in August 2012 to 263.1 µg/L in December 2013).

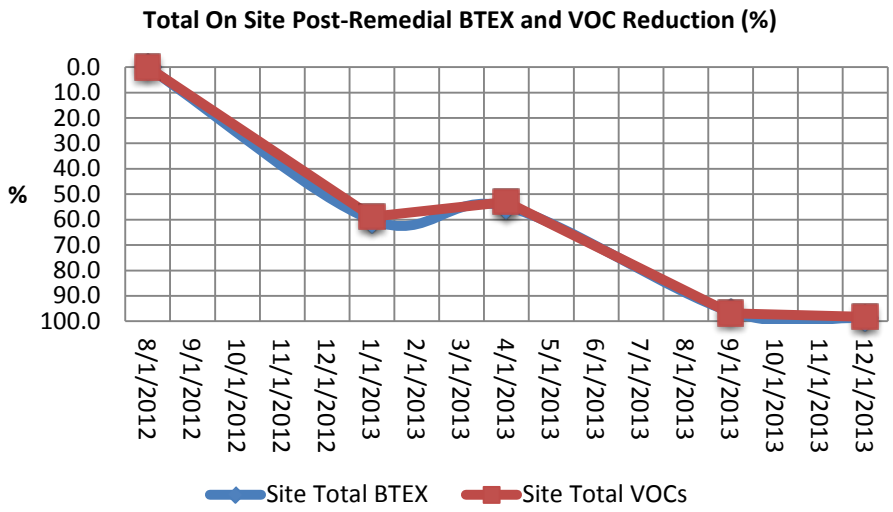


Figure 3.

Concentrations of Total BTEX and Total VOCs measured from all on-site monitoring wells in AOC-1 and AOC-2 plotted from 8/7/2012 through 12/20/2013 demonstrated a sharp and steady decreasing trend of COCs on site since completion of the remedy.

- Also, groundwater analytical results from offsite monitoring well MW-SE-8 demonstrated a 71% reduction in Benzene (700 µg/L in August 2012 to 200 µg/L in December 2013), 77% reduction in BTEX compounds (1,041 µg/L in August 2012 to 235 µg/L in December 2013), and 86% reduction in total measured VOC's (1,972 µg/L in August 2012 to 264 µg/L in December 2013).

- Levels of Dissolved Oxygen (DO) and Oxidation-reduction potential (ORP) in AOC-1 sharply increased following completion of the remedy and remain elevated, indicating that conditions on site are favorable for continued aerobic biodegradation of COC's.

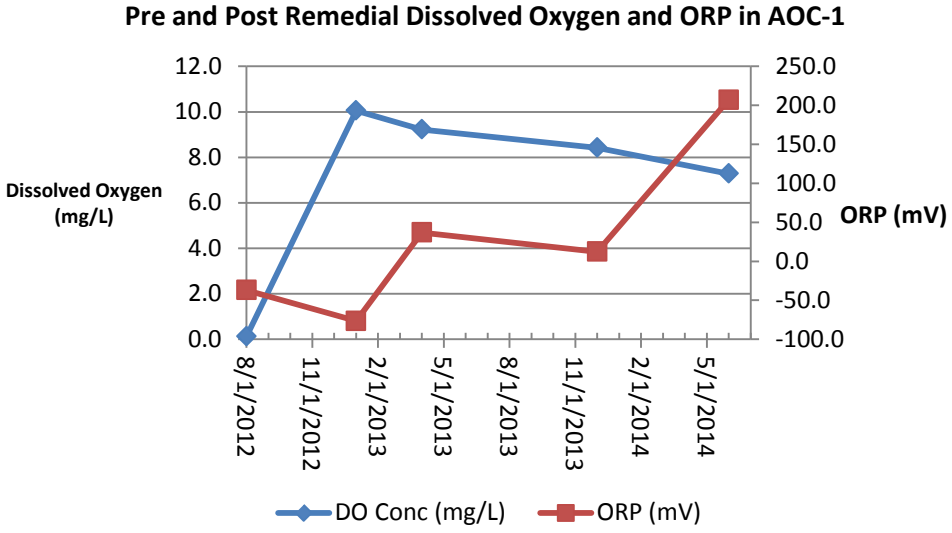


Figure 4.

Levels of DO and ORP in AOC-1 plotted from 8/7/2012 through 6/12/2014. DO and ORP are important site indicators for bioremediation. On- site concentrations of these two parameters demonstrate that conditions on site are favorable for continued aerobic biodegradation of target COC's since implementation of the remedy.

Conclusions and Recommendations

The groundwater data presented herein demonstrates that the injection strategy was successful in substantially reducing target COC's on and offsite, and creating groundwater conditions that are favorable for aerobic biodegradation of target COC's. Documentation presented from previous investigations conducted by GF on behalf of Cooper provided evidence of an offsite source of petroleum contamination that has impacted groundwater quality on White Street adjacent to Cooper. Cooper has demonstrated that other than the Sanborn map illustrating a pre-1981 historical presence of an UST, no such petroleum source exists on its property nor has Cooper ever stored/used gasoline since their property ownership.

Based on the best practical efforts completed by Cooper to remediate groundwater quality within Lot 47 of 225 Moore Street and the substantial improvement in groundwater quality on and off-site demonstrated in this report, GF concludes that no further investigation or remedial action for these soils or groundwater is warranted by Cooper. GF is requesting that no further action be required by Cooper for conditions associated with Spill # 1100020 and that this Spill case be closed as it relates to Cooper.

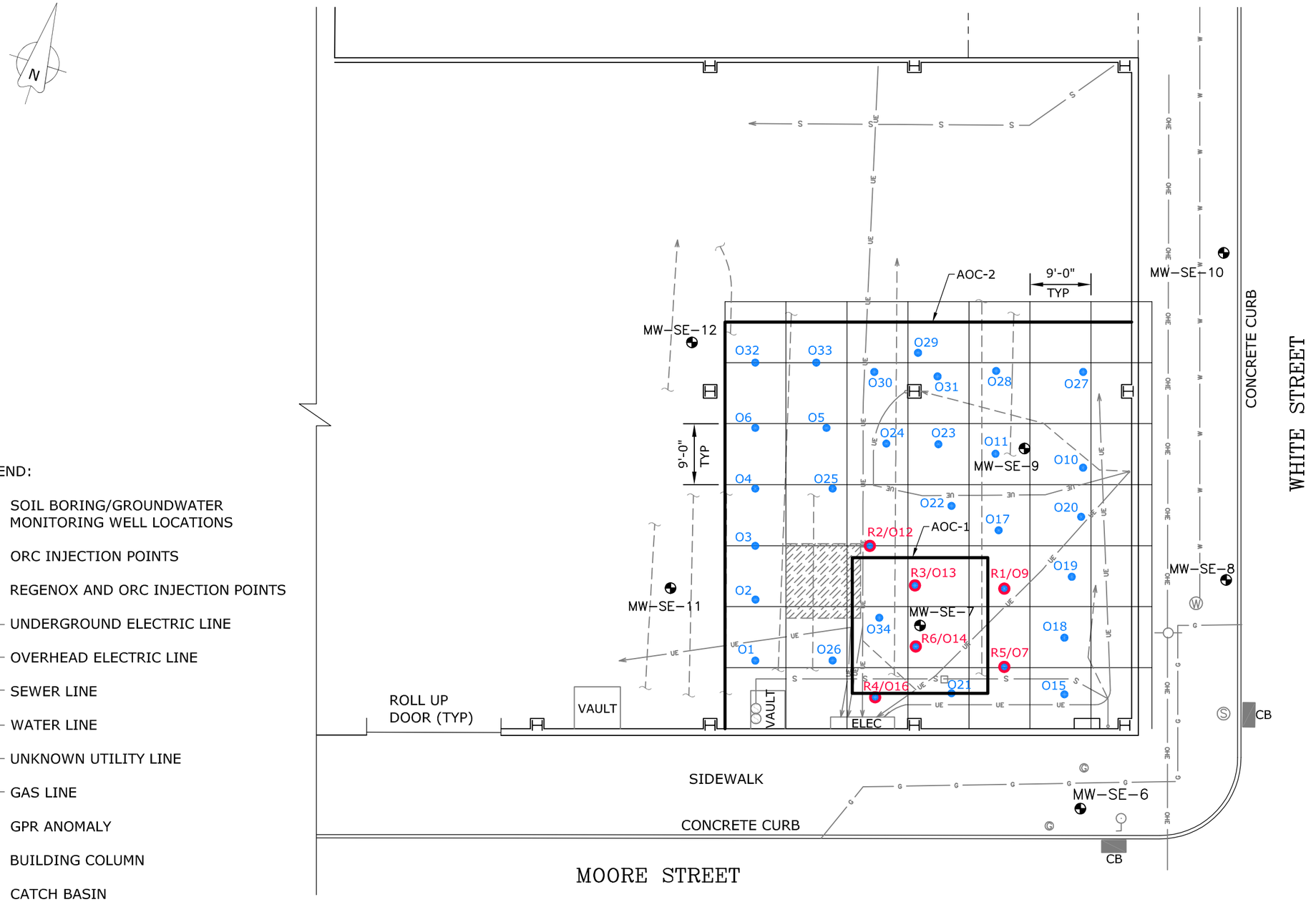
We are available at your convenience to further discuss these findings and conclusions. Please contact us if you have any questions or require further clarification.

Very truly yours,

GANNETT FLEMING ENGINEERS, P.C.

VINCENT FRISINA, P.E.
Vice President/Director of Environmental Services

cc: David Hillcoat – Cooper Tank and Welding Corp.
F. Inyard, P.E. (GF)



LEGEND:

- SOIL BORING/GROUNDWATER MONITORING WELL LOCATIONS
- O1 ORC INJECTION POINTS
- REGENOX AND ORC INJECTION POINTS
- UE UNDERGROUND ELECTRIC LINE
- OVERHEAD ELECTRIC LINE
- S SEWER LINE
- W WATER LINE
- UNKNOWN UTILITY LINE
- G GAS LINE
- GPR ANOMALY
- BUILDING COLUMN
- CB CATCH BASIN
- ELEC ELECTRIC PANEL
- STREET LIGHT
- AOC AREA OF CONCERN

0 8 32

SCALE: 1/16" = 1'-0"

REMEDIAL INJECTION POINTS

COOPER TANK & WELDING CORP.
215 MOORE STREET, BROOKLYN, NY

TABLE 1
SUMMARY OF WATER SAMPLE RESULTS
CP-51 LIST VOLATILE ORGANIC COMPOUNDS

COOPER TANK
225 MOORE STREET
BROOKLYN, NEW YORK

SAMPLE ID:	MW SE-11	MW SE-11	MW SE-11	MW SE-6	MW SE-6
SAMPLE TYPE:	Water	Water	Water	Water	Water
SAMPLE DATE:	8/7/2012	1/8/2013	4/18/2013	9/25/2013	12/20/2013
GC/MS VOA (ppb) - 8260B					
1,2,4-Trimethylbenzene	4.8	1.1	1.0 U	13	1.9
1,3,5-Trimethylbenzene	1.6	1.0 U	1.0 U	3.2	1 U
Benzene	80	17	22	17	2.6
Ethylbenzene	3.8	1.0 U	1.0 U	11	13
Isopropylbenzene	3.2	1.2	1.3	10	28
m+p Xylene	13	3.2	3.4	24	6.2
Methyl tert-Butyl Ether	0.35 U	1.0 U	1.0 U	2 U	1 U
Naphthalene	1.1	2 U	2.0 U	9.5	2.9
n-Butylbenzene	0.71 J	1.0 U	1.0 U	3.9	11
n-Propylbenzene	4.1	1.2	1.2	19	62
o-Xylene	2.4	1.0 U	1.0 U	6.3	1.3
p-Isopropyltoluene	0.43 U	1.0 U	1.0 U	2 U	2.4
sec-Butylbenzene	0.46 U	1.0 U	1.0 U	2.3	7.6
tert-Butylbenzene	0.44 U	1.0 U	1.0 U	2 U	1 U
Toluene	4.1	1.0 U	1.0 U	3.1	1 U
Total BTEX	103.3	20.2	25.4	61.4	23.1
TOTAL VOCs	118.1	23.7	27.9	122.3	138.9

SAMPLE ID:	MW SE-9	MW SE-9	MW SE-9	MW SE-9	MW SE-9
SAMPLE TYPE:	Water	Water	Water	Water	Water
SAMPLE DATE:	8/7/2012	1/8/2013	4/18/2013	9/25/2013	12/20/2013
GC/MS VOA (ppb) - 8260B					
1,2,4-Trimethylbenzene	2.1	67	10 U	2.2	3.2
1,3,5-Trimethylbenzene	1.3	27	11	2 U	1.1
Benzene	140	160	10 U	26	75
Ethylbenzene	11	48	10 U	2 U	4.2
Isopropylbenzene	110	130	10 U	4.5	16
m+p Xylene	7.6	66	20 U	4 U	4.4
Methyl tert-Butyl Ether	0.35 U	10 U	10 U	2 U	1 U
Naphthalene	3.6	58	20 U	7.7	2.1
n-Butylbenzene	39	160	10 U	2.2	6
n-Propylbenzene	190	360	10 U	5.5	35
o-Xylene	2.7	13	10 U	2 U	2.4
p-Isopropyltoluene	0.88 J	10 U	10 U	2 U	1 U
sec-Butylbenzene	28	78	10 U	2 U	3.9
tert-Butylbenzene	1.7	10 U	10 U	2 U	1 U
Toluene	6.7	24	10 U	2 U	3.8
Total BTEX	168	311	ND	26	89.8
TOTAL VOCs	543.7	1191	11	48.1	157.1
					138.8

SAMPLE ID:	MW SE-12	MW SE-12	MW SE-12
SAMPLE TYPE:	Water	Water	Water
SAMPLE DATE:	8/7/2012	1/8/2013	4/18/2013
GC/MS VOA (ppb) - 8260B			
1,2,4-Trimethylbenzene	4.5	1.0 U	1.0 U
1,3,5-Trimethylbenzene	1.5	1.0 U	1.0 U
Benzene	77	1.0 U	1.0 U
Ethylbenzene	3.6	1.0 U	1.0 U
Isopropylbenzene	3.1	1.0 U	1.0 U
m+p Xylene	13	2 U	2 U
Methyl tert-Butyl Ether	0.35 U	1.0 U	1.0 U
Naphthalene	1.0	2 U	2 U
n-Butylbenzene	0.66 J	1.0 U	1.0 U
n-Propylbenzene	3.8	1.0 U	1.0 U
o-Xylene	2.3	1.0 U	1.0 U
p-Isopropyltoluene	0.43 U	1.0 U	1.0 U
sec-Butylbenzene	0.46 U	1.0 U	1.0 U
tert-Butylbenzene	0.44 U	1.0 U	1.0 U
Toluene	4	1.0 U	1.0 U
Total BTEX	99.9	ND	ND
TOTAL VOCs	114.5	ND	ND

SAMPLE ID:	MW SE-7	MW SE-7	MW SE-7	MW SE-7	MW SE-7	MW SE-7
SAMPLE TYPE:	Water	Water	Water	Water	Water	Water
SAMPLE DATE:	8/7/2012	1/8/2013	4/18/2013	9/25/2013	12/20/2013	6/13/2014
GC/MS VOA (ppb) - 8260B						
1,2,4-Trimethylbenzene	2000 D	480	1000	11.0	4.0 U	1.0 U
1,3,5-Trimethylbenzene	540 D	110	370	2.8	57.0	210.0
Benzene	3300 D	1700	1700	330.0	4.0 U	240.0
Ethylbenzene	1900 D	580	830	14.0	19.0	1.0 U
Isopropylbenzene	180	50	100	3.9	4.0 U	1.0 U
m+p Xylene	5500 D	1300	2000	40	8 U	1.0 U
Methyl tert-Butyl Ether	0.35 U	25 U	50 U	1.0 U	4.0 U	0.5 U
Naphthalene	490 D	140	270	6.1	8 U	NA U
n-Butylbenzene	25	25 U	68	1.0 U	4.0 U	1.0 U
n-Propylbenzene	190	78	210	5.4	4.0 U	1.0 U
o-Xylene	380 D	290	400	13.0	30.0	160.0
p-Isopropyltoluene	14	25 U	50 U	1.0 U	4.0 U	4.4
sec-Butylbenzene	15	25 U	50 U	1.0 U	4.0 U	2.4
tert-Butylbenzene	1.8	25 U	50 U	1.0 U	4.0 U	1.1
Toluene	210 D	450	310	14.0	4.0 U	32.0
Total BTEX	11290	4320	5240	411	49.0	432.0
TOTAL VOCs	14746.15	5178	7258	440.2	106.0	649.9
					263.1	

SAMPLE ID:	MW SE-8	MW SE-8	MW SE-8	MW SE-8	MW SE-8
SAMPLE TYPE:	Water	Water	Water	Water	Water
SAMPLE DATE:	8/7/2012	1/8/2013	4/18/2013	9/25/2013	12/20/2013
GC/MS VOA (ppb) - 8260B					
1,2,4-Trimethylbenzene	500 D	220	220	280.0	6.6
1,3,5-Trimethylbenzene	71	49	52	68.0	5.0
Benzene	700 D	450	570	3400.0	200.0
Ethylbenzene	190	110	120	330.0	9.7
Isopropylbenzene	10.0	76	86	55.0	3.2
m+p Xylene	110	66	91	880	16
Methyl tert-Butyl Ether	0.35 U	5 U	10 U	10.0 U	1.0 U
Naphthalene	59	44	62	67	3.6
n-Butylbenzene	25	28	23	20.0	2.1
n-Propylbenzene	150	130	140	82.0	4.4
o-Xylene	10	8.8	16	300.0	3.7
p-Isopropyltoluene	17	17	15	11.0	4.7
sec-Butylbenzene	11	11	10 U	10.0 U	1.0 U
tert-Butylbenzene	2.1	5 U	10 U	10.0 U	1.0 U
Toluene	31	27	30	270.0	5.3
Total BTEX	1041	662	827	5180	235
TOTAL VOCs	1972	1237	1425	5763	264

SAMPLE ID:	SITE TOTAL	SITE TOTAL	SITE TOTAL	SITE TOTAL	SITE TOTAL
SAMPLE TYPE:	Water	Water	Water	Water	Water
SAMPLE DATE:	8/7/2012	1/8/2013	4/18/2013	9/25/2013	12/20/2013
GC/MS VOA (ppb) - 8260B					
1,2,4-Trimethylbenzene					
1,3,5-Trimethylbenzene					
Benzene	3597	1877	1722	356	75
Ethylbenzene					
Isopropylbenzene					
m+p Xylene					
Methyl tert-Butyl Ether					
Naphthalene					
n-Butylbenzene					
n-Propylbenzene					
o-Xylene					
p-Isopropyltoluene					
sec-Butylbenzene					
tert-Butylbenzene					
Toluene					
Total BTEX	11661	4651	5265	437	139
TOTAL VOCs	15522	6393	7297	488	263.1

SAMPLE ID / DATE	Total BTEX CONCENTRATION CHANGE (+/-%)	Total Benzene CONCENTRATION CHANGE (+/-%)	TOTAL MEASURED VOCs CONCENTRATION CHANGE (+/-%)
MW SE-11 1/8/2013	-80.45	-78.75	-79.93
MW SE-11 4/18/2013	-75.41	-72.50	-76.38
MW SE-9 1/8/2013	85.12	14.29	119.05
MW SE-9 4/18/2013	-100.00	-100.00	-97.98
MW SE-9 9/25/2013	-84.52	-81.43	-91.15
MW SE-9 12/20/2013	-46.55	-46.43	-71.11
MW SE-12 1/8/2013	-100.00	-100.00	-100.00
MW SE-12 4/18/2013	-100.00	-100.00	-100.00
MW SE-7 1/8/2013	-61.74	-48.48	-64.89
MW SE-7 4/18/2013	-53.59	-48.48	-50.78
MW SE-7 9/25/2013	-96.36	-90.00	-97.01
MW SE-7 12/20/2013	-99.57	-100.00	-99.28
MW SE-7 6/13/2014	-96.17	-92.73	-95.59
MW SE-8 1/8/2013	-36.43	-35.71	-37.29
MW SE-8 4/18/2013	-20.58	-18.57	-27.74
MW SE-8 9/25/2013	397.60	385.71	192.23
MW SE-8 12/20/2013	-77.45	-71.43	-86.60
SITE TOTAL (MW-SE7 and MW-SE9) 12/20/2013	-98.79	-97.82	-98.28

Notes:
Site total concentrations through 4/18/13 include measured analytical concentrations in all wells except offsite well MW-8
Site total concentrations for 9/25/13 and 12/20/13 include measured analytical concentrations in wells MW-SE7 and MW-SE9, as required by NYSDEC
Monitoring well MW-SE6 had not been required for baseline and post remedial sampling, therefore baseline sampling data does not exist for MW-SE6

-	Indicates a percent-reduction in concentration from the August 2012 baseline event
J	Indicates an estimated value.
U	Analyzed for but not detected.
NA	Not Analyzed
ND	Not Detected
µg/L	Micrograms per liter
(shaded)	Shaded areas indicate August 2012 Baseline Sampling Event

ATTACHMENT 1

LABORATORY REPORT FOR 6/13/2014 SAMPLING EVENT

HC·V
HAMPTONCLARKE·VERITECH

175 ROUTE 46 WEST, UNIT D · FAIRFIELD, NJ 07004
2 MADISON ROAD, FAIRFIELD, NJ 07004
800-426-9992 · 973-244-9770
FAX: 973-244-9787

WWW.HCVLAB.COM

Project: Cooper

Client PO: Not Available

Report To: Gannett Fleming
Suite 300
100 Crossways Park West
Woodbury, NY 11757

Attn: Scott Narod

Received Date: 6/12/2014

Report Date: 7/3/2014

Deliverables: NYDOH-CatB

Lab ID: AC79170

Lab Project No: 4061226

Robin Cousineau - Quality Assurance Director OR **Stanley Gilewicz - Laboratory Director**

NJ (07071) NY (ELAP11408) CT (PH-0671)
PA (68-00463) KY (90124)

Table of Contents

SDG Narrative

HCV Case Narrative

Client: Gannett Fleming
Project: Cooper

HCV Project: 4061226

Hampton-Clarke/Veritech (HC·V) received the following samples on June 12, 2014:

Client ID	HCV Sample ID	Matrix	Analysis
MW-SE-7	AC79170-001	Aqueous	VO (8260C)
FB	AC79170-002	Aqueous	VO (8260C)
TB	AC79170-003	Aqueous	VO (8260C)

This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.

Volatile Organic Analysis:

The Matrix Spike and Matrix Spike Duplicate for batch 36480 had recoveries outside QC limits. However, since the associated Method Blank and Laboratory Control Sample were within control, no corrective action was necessary.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Robin Cousineau
Quality Assurance Director

Or

Stanley Gilewicz
Laboratory Director

7/3/2014
Date

Reporting Limit Definitions

HCV Reporting Limit Definitions/Data Qualifiers

REPORTING DEFINITIONS

DF = Dilution Factor

MDL = Method Detection Limit

RL* = Reporting Limit

ND = Not Detected

RT = Retention Time

NA = Not Applicable

**Samples with elevated Reporting Limits (RLs) as a result of a dilution may not achieve client reporting limits in some cases. The elevated RLs are unavoidable consequences of sample dilution required to quantitate target analytes that exceed the calibration range of the instrument.*

DATA QUALIFIERS

B- Indicates analyte was present in the Method Blank and sample.

d- For Pesticide and PCB analysis, the concentration between primary and secondary columns is greater than 40%. The lower concentration is generally reported.

E- Indicates the concentration exceeded the upper calibration range of the instrument.

J- Indicates the value is estimated because it is either a Tentatively Identified Compound (TIC) or the reported concentration is greater than the MDL but less than the RL. For samples results between the MDL and RL there is a possibility of false positives or misidentification at the quantitation levels. Additionally, the acceptance criteria for QC samples may not be met.

Data Package Summary Forms

HCV Report Of Analysis

Client: Gannett Fleming
Project: Cooper

HCV Project #: 4061226

Sample ID: MW-SE-7
Lab#: AC79170-001
Matrix: Aqueous

Collection Date: 6/12/2014
Receipt Date: 6/12/2014

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	1	ug/l	1.0	ND
1,3,5-Trimethylbenzene	**1**	**ug/l**	**1.0**	**210**
4-Isopropyltoluene	**1**	**ug/l**	**1.0**	**4.4**
Benzene	**1**	**ug/l**	**0.50**	**240**
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
n-Butylbenzene	1	ug/l	1.0	ND
n-Propylbenzene	1	ug/l	1.0	ND
o-Xylene	**1**	**ug/l**	**1.0**	**160**
sec-Butylbenzene	**1**	**ug/l**	**1.0**	**2.4**
t-Butylbenzene	**1**	**ug/l**	**1.0**	**1.1**
Toluene	**1**	**ug/l**	**1.0**	**32**
Trichloroethene	1	ug/l	1.0	ND
Xylenes (Total)	**1**	**ug/l**	**1.0**	**160**

Sample ID: FB
Lab#: AC79170-002
Matrix: Aqueous

Collection Date: 6/12/2014
Receipt Date: 6/12/2014

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	1	ug/l	1.0	ND
1,3,5-Trimethylbenzene	1	ug/l	1.0	ND
4-Isopropyltoluene	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
n-Butylbenzene	1	ug/l	1.0	ND
n-Propylbenzene	1	ug/l	1.0	ND
o-Xylene	1	ug/l	1.0	ND
sec-Butylbenzene	1	ug/l	1.0	ND
t-Butylbenzene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: TB
Lab#: AC79170-003
Matrix: Aqueous

Collection Date: 6/12/2014
Receipt Date: 6/12/2014

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,2,4-Trimethylbenzene	1	ug/l	1.0	ND
1,3,5-Trimethylbenzene	1	ug/l	1.0	ND
4-Isopropyltoluene	1	ug/l	1.0	ND
Benzene	1	ug/l	0.50	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
n-Butylbenzene	1	ug/l	1.0	ND
n-Propylbenzene	1	ug/l	1.0	ND
o-Xylene	1	ug/l	1.0	ND
sec-Butylbenzene	1	ug/l	1.0	ND
t-Butylbenzene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC79170-001
Client Id: MW-SE-7
Data File: 2M17670.D
Analysis Date: 06/17/14 18:23
Date Rec/Extracted: 06/12/14-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
108-67-8	**1,3,5-Trimethylbenzene**	**1.0**	**210**	103-65-1	n-Propylbenzene	1.0	U
99-87-6	**4-Isopropyltoluene**	**1.0**	**4.4**	**95-47-6**	**o-Xylene**	**1.0**	**160**
71-43-2	**Benzene**	**0.50**	**240**	**135-98-8**	**sec-Butylbenzene**	**1.0**	**2.4**
100-41-4	Ethylbenzene	1.0	U	**98-06-6**	**t-Butylbenzene**	**1.0**	**1.1**
98-82-8	Isopropylbenzene	1.0	U	**108-88-3**	**Toluene**	**1.0**	**32**
136777612	m&p-Xylenes	1.0	U	79-01-6	Trichloroethene	1.0	U
1634-04-4	Methyl-t-butyl ether	0.50	U	**1330-20-7**	**Xylenes (Total)**	**1.0**	**160**

Worksheet #: 306528

Total Target Concentration 650

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC79170-002
Client Id: FB
Data File: 2M17686.D
Analysis Date: 06/17/14 22:43
Date Rec/Extracted: 06/12/14-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	103-65-1	n-Propylbenzene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	95-47-6	o-Xylene	1.0	U
71-43-2	Benzene	0.50	U	135-98-8	sec-Butylbenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	108-88-3	Toluene	1.0	U
136777612	m&p-Xylenes	1.0	U	79-01-6	Trichloroethene	1.0	U
1634-04-4	Methyl-t-butyl ether	0.50	U	1330-20-7	Xylenes (Total)	1.0	U

Worksheet #: 306528

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC79170-003
Client Id: TB
Data File: 2M17687.D
Analysis Date: 06/17/14 22:59
Date Rec/Extracted: 06/12/14-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	103-65-1	n-Propylbenzene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	95-47-6	o-Xylene	1.0	U
71-43-2	Benzene	0.50	U	135-98-8	sec-Butylbenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	108-88-3	Toluene	1.0	U
136777612	m&p-Xylenes	1.0	U	79-01-6	Trichloroethene	1.0	U
1634-04-4	Methyl-t-butyl ether	0.50	U	1330-20-7	Xylenes (Total)	1.0	U

Worksheet #: 306528

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chain of Custody Forms

4061226 0013

HamptonClarke-Veritech Laboratories
175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056

HC-V HamptonClarke Veritech Laboratories
A Women-Owned, Disadvantaged, Small Business Enterprise

NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124

CHAIN OF CUSTODY RECORD

4061226 Page ____ of ____

Customer Information

1a) Customer: Scott Narod (Gannett Fleming)
Address: 100 Crossways Park Dr West, Suite 300
1b) Email/Cell/Fax/Ph: 646-961-8603 snarod@gfnet.com
1c) Send Invoice to: Scott Narod
1d) Send Report to:

Project Information

2a) Project: Cooper
2b) Project Mgr: Scott Narod
2c) Project Location (City/State): Brooklyn, NY
2d) Quote/PO # (If Applicable):

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Deliv.
24 Hours (100%)	Data Summary	Hazsite/CSV
48 Hours (75%)	Waste	EQuIS 4-File / EZ / NYS
72 Hours (50%)	Red - NJ / NY / PA	EQuIS EPA Region 2 or 5
4 Days (35%; TPH)	CLP	Excel - NJ Regulatory
1 Week (25%; EPH)	Full / Category B	Excel - NY Regulatory
10 Days (10%)	Category A	Excel - PA Regulatory
2 Weeks	Other: ____	PDF
Other: STD		Other: ____

Expedited TAT Not Always Available. Please Check with Lab.

FOR LAB USE ONLY

Batch # AC19170

Check If Contingent ===>

Matrix Codes
DW - Drinking Water; S - Soil; A - Air; GW - Ground Water; SL - Sludge; WW - Waste Water; OL - Oil; OT - Other (please specify under item 9, Comments)

7) Analysis Request

<=== Check If Contingent

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Sample Type: Composite (C)	Sample Type: Grab (G)	CP-51, Table 2 VOCs	8) # of Bottles: None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other:	9) Comments
-001	MW-SE-7	GW	6/12/14	1115		G	X					3				clean-non-GW
-002	FB	OT	6/12/14	1130		G	X					3				present for
-003	TB	OT	6/12/14	0000		G	X					3				FB + TB
																-RLs should
																be consistent
																with TOGS
																GW standards

10) Relinquished by:	Accepted by:	Date	Time
		6/12/14	1245
		6/12/14	1420

Comments, Notes, Special Requirements, HAZARDS

Note: Check if low-level groundwater methods required to meet current standards in NJ or PA:
- ☐ BN or BNA (8270C SIM)
- ☐ VOC (8260B SIM or 8011)
- ☐ Metals (ICP-MS 200.8 or 6020)
- ☐ Metals-Soil (ICP-MS 6020 for Be & Ag)

Note: Check if applicable:
- ☐ Project-Specific Reporting Limits
- ☐ High Contaminant Concentrations
- ☐ NJ LSRP Project

Cooler Temperature: 2.9

Additional Notes

11) Sampler (print name): Date:

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

CONDITION UPON RECEIPT

Batch Number AC79170 Entered By: Frantz

Date Entered 6/12/2014 3:24:00 PM

1	Yes	Is there a corresponding COC included with the samples?
2	Yes	Are the samples in a container such as a cooler or Ice chest?
3	Yes	Are the COC seals intact?
4	Yes	Please specify the Temperature inside the container (in degC) 2.9
5	Yes	Are the samples refrigerated (where required)/have they arrived on ice?
6	Yes	Are the samples within the holding times for the parameters listed on the COC? IF no, list parameters and samples:
7	Yes	Are all of the sample bottles intact? If no, specify sample numbers broken/leaking
8	Yes	Are all of the sample labels or numbers legible? If no specify:
9	Yes	Do the contents match the COC? If no, specify
10	Yes	Is there enough sample sent for the analyses listed on the COC? If no, specify:
11	NO	Are samples preserved correctly?
12	Yes	Was temperature blank present (Place comment below if not)? If not was temperature of samples verified?
13	YES	Other comments ...Specify No custody seals on Trip Blanks, Trip blank was not prepped at HCV.
14	NA	Corrective actions (Specify item number and corrective action taken).

PRESERVATION DOCUMENT

Batch Number AC79170

Entered By: Frantz

Date Entered 6/12/2014 3:25:00 PM

Lab#:	Container Siz	Container Typ	Paramete	Preservative	PH
AC79170-001	40ML	G	VO	HCL	7
AC79170-002	40ML	G	VO	HCL	1
AC79170-003	40ML	G	VO	HCL	1

Internal Chain of Custody

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis
AC79170-001	06/12/14 14:20	FRAN	0	M	Received
AC79170-001	06/12/14 15:23	FRAN	0	M	Login
AC79170-001	06/13/14 07:08	R31	4	A	NONE
AC79170-001	06/13/14 07:08	R31	5	A	NONE
AC79170-001	06/17/14 20:44	WP	5	A	VOA
AC79170-001	06/13/14 07:08	R31	6	A	NONE
AC79170-002	06/12/14 14:20	FRAN	0	M	Received
AC79170-002	06/12/14 15:23	FRAN	0	M	Login
AC79170-002	06/13/14 07:08	R31	4	A	NONE
AC79170-002	06/17/14 18:05	WP	4	A	VOA
AC79170-002	06/13/14 07:08	R31	5	A	NONE
AC79170-002	06/13/14 07:08	R31	6	A	NONE
AC79170-003	06/12/14 14:20	FRAN	0	M	Received
AC79170-003	06/12/14 15:23	FRAN	0	M	Login
AC79170-003	06/13/14 07:08	R31	4	A	NONE
AC79170-003	06/17/14 18:05	WP	4	A	VOA
AC79170-003	06/13/14 07:08	R31	5	A	NONE
AC79170-003	06/13/14 07:08	R31	6	A	NONE

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis

Samples marked as received are stored in coolers or refrigerator R12, or R24 at 4 deg C until Login

GC/MS Volatile Data

GC/MS Volatile Data
QC Summary

FORM2

Surrogate Recovery

Method: EPA 8260C

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
2M17662.D	DAILY BLANK	Aqueous	06/17/14 16:15	1		123	121	92	90		
2M17670.D	AC79170-001	Aqueous	06/17/14 18:23	1		113	121	90	101		
2M17686.D	AC79170-002	Aqueous	06/17/14 22:43	1		115	117	92	96		
2M17687.D	AC79170-003	Aqueous	06/17/14 22:59	1		120	110	89	94		
2M17663.D	MBS36472	Aqueous	06/17/14 16:31	1		111	108	95	96		
2M17673.D	AC79132-002(	Aqueous	06/17/14 19:11	1		118	126	95	95		
2M17682.D	AC79132-002(	Aqueous	06/17/14 21:39	1		110	109	98	100		
2M17683.D	AC79132-002(	Aqueous	06/17/14 21:55	1		110	110	94	97		
2M17684.D	MBS36480	Aqueous	06/17/14 22:11	1		110	110	96	95		

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8260C

Aqueous Limits

Compound	Spike Amt	Limits
S1=Dibromofluoromethane	30	73-131
S2=1,2-Dichloroethane-d4	30	78-128
S3=Toluene-d8	30	79-111
S4=Bromofluorobenzene	30	82-112

Form3
Recovery Data
QC Batch: MBS36472

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2M17663.D	MBS36472	6/17/2014 4:31:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8260C | Matrix: Aqueous | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Vinyl Chloride	1	17.6257	0	20	88	20	130
1,1-Dichloroethene	1	22.354	0	20	112	50	130
1,1-Dichloroethane	1	20.468	0	20	102	50	130
Chloroform	1	19.9001	0	20	100	50	130
1,2-Dichloroethane	1	21.5724	0	20	108	50	130
2-Butanone	1	18.3852	0	20	92	20	130
Carbon Tetrachloride	1	21.6327	0	20	108	50	130
Trichloroethene	1	19.5842	0	20	98	50	130
Benzene	1	19.7241	0	20	99	50	130
Tetrachloroethene	1	17.6222	0	20	88	50	130
Toluene	1	16.7672	0	20	84	50	130
Chlorobenzene	1	16.8004	0	20	84	50	130
1,4-Dichlorobenzene	1	15.6837	0	20	78	50	130
1,2-Dichlorobenzene	1	14.9105	0	20	75	50	130
n-Propylbenzene	1	16.6432	0	20	83	50	130
sec-Butylbenzene	1	16.1888	0	20	81	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data
QC Batch: MBS36480

Data File	Sample ID:	Analysis Date
Spike or Dup: 2M17684.D	MBS36480	6/17/2014 10:11:00 PM
Non Spike(If applicable):		
Inst Blank(If applicable):		

Method: 8260C | Matrix: Aqueous | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Vinyl Chloride	1	18.2895	0	20	91	20	130
1,1-Dichloroethene	1	22.091	0	20	110	50	130
1,1-Dichloroethane	1	18.8333	0	20	94	50	130
Chloroform	1	19.2803	0	20	96	50	130
1,2-Dichloroethane	1	19.5324	0	20	98	50	130
2-Butanone	1	17.7932	0	20	89	20	130
Carbon Tetrachloride	1	20.3548	0	20	102	50	130
Trichloroethene	1	18.7639	0	20	94	50	130
Benzene	1	18.3544	0	20	92	50	130
Tetrachloroethene	1	17.671	0	20	88	50	130
Toluene	1	16.5627	0	20	83	50	130
Chlorobenzene	1	16.2234	0	20	81	50	130
1,4-Dichlorobenzene	1	14.7716	0	20	74	50	130
1,2-Dichlorobenzene	1	14.8397	0	20	74	50	130
n-Propylbenzene	1	16.0392	0	20	80	50	130
sec-Butylbenzene	1	15.9953	0	20	80	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data
QC Batch: MBS36480

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2M17682.D	AC79132-002(T:MS)	6/17/2014 9:39:00 PM
Non Spike(If applicable):	2M17673.D	AC79132-002(T)	6/17/2014 7:11:00 PM
Inst Blank(If applicable):			

Method: 8260C Matrix: Aqueous QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Vinyl Chloride	1	13.0439	0	20	65	20	130
1,1-Dichloroethene	1	16.5829	0	20	83	50	130
1,1-Dichloroethane	1	17.2757	0	20	86	50	130
Chloroform	1	17.3927	0	20	87	50	130
1,2-Dichloroethane	1	16.6677	0	20	83	50	130
2-Butanone	1	17.7459	0	20	89	20	130
Carbon Tetrachloride	1	16.0786	0	20	80	50	130
Trichloroethene	1	12.9741	0	20	65	50	130
Benzene	1	15.8153	0	20	79	50	130
Tetrachloroethene	1	12.6612	0	20	63	50	130
Toluene	1	13.4206	0	20	67	50	130
Chlorobenzene	1	11.997	0	20	60	50	130
1,4-Dichlorobenzene	1	7.672	0	20	38*	50	130
1,2-Dichlorobenzene	1	9.5696	0	20	48*	50	130
n-Propylbenzene	1	10.2108	0	20	51	50	130
sec-Butylbenzene	1	10.308	0	20	52	50	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2M17683.D	AC79132-002(T:MSD)	6/17/2014 9:55:00 PM
Non Spike(If applicable):	2M17673.D	AC79132-002(T)	6/17/2014 7:11:00 PM
Inst Blank(If applicable):			

Method: 8260C Matrix: Aqueous QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Vinyl Chloride	1	12.8005	0	20	64	20	130
1,1-Dichloroethene	1	13.2851	0	20	66	50	130
1,1-Dichloroethane	1	15.5749	0	20	78	50	130
Chloroform	1	16.3455	0	20	82	50	130
1,2-Dichloroethane	1	15.7471	0	20	79	50	130
2-Butanone	1	15.2465	0	20	76	20	130
Carbon Tetrachloride	1	15.0733	0	20	75	50	130
Trichloroethene	1	13.0559	0	20	65	50	130
Benzene	1	14.9756	0	20	75	50	130
Tetrachloroethene	1	11.8592	0	20	59	50	130
Toluene	1	12.7344	0	20	64	50	130
Chlorobenzene	1	10.9038	0	20	55	50	130
1,4-Dichlorobenzene	1	7.6697	0	20	38*	50	130
1,2-Dichlorobenzene	1	9.9207	0	20	50	50	130
n-Propylbenzene	1	10.1796	0	20	51	50	130
sec-Butylbenzene	1	10.5532	0	20	53	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD DATA
QC Batch: MBS36480

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2M17683.D	AC79132-002(T:MSD)	6/17/2014 9:55:00 PM
Duplicate(If applicable):	2M17682.D	AC79132-002(T:MS)	6/17/2014 9:39:00 PM
Inst Blank(If applicable):			

Method: 8260C Matrix: Aqueous QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Vinyl Chloride	1	12.8005	13.0439	1.9	40
1,1-Dichloroethene	1	13.2851	16.5829	22	40
1,1-Dichloroethane	1	15.5749	17.2757	10	40
Chloroform	1	16.3455	17.3927	6.2	40
1,2-Dichloroethane	1	15.7471	16.6677	5.7	40
2-Butanone	1	15.2465	17.7459	15	40
Carbon Tetrachloride	1	15.0733	16.0786	6.5	40
Trichloroethene	1	13.0559	12.9741	0.63	40
Benzene	1	14.9756	15.8153	5.5	40
Tetrachloroethene	1	11.8592	12.6612	6.5	40
Toluene	1	12.7344	13.4206	5.2	40
Chlorobenzene	1	10.9038	11.997	9.5	40
1,4-Dichlorobenzene	1	7.6697	7.672	0.03	40
1,2-Dichlorobenzene	1	9.9207	9.5696	3.6	40
n-Propylbenzene	1	10.1796	10.2108	0.31	40
sec-Butylbenzene	1	10.5532	10.308	2.4	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 2M17662.D
Matrix: Aqueous

Blank Analysis Date: 06/17/14 16:15
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8260C

Sample Number	Data File	Analysis Date
AC79170-001	2M17670.D	06/17/14 18:23
AC79170-002	2M17686.D	06/17/14 22:43
AC79170-003	2M17687.D	06/17/14 22:59
MBS36472	2M17663.D	06/17/14 16:31
MBS36480	2M17684.D	06/17/14 22:11
AC79132-002(T:M	2M17683.D	06/17/14 21:55
AC79132-002(T:M	2M17682.D	06/17/14 21:39
AC79132-002(T)	2M17673.D	06/17/14 19:11

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 2
Data File: 2M16102.D
Analysis Date: 05/20/14 15:14
Method: EPA 8260C

Tune Scan/Time Range: Average of 4.547 to 4.606 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	21.8	3644	PASS
75	95	30	60	50.0	8367	PASS
95	95	100	100	100.0	16746	PASS
96	95	5	9	6.0	1012	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	88.2	14772	PASS
175	174	5	9	8.8	1301	PASS
176	174	95	101	95.6	14121	PASS
177	176	5	9	7.3	1033	PASS

Data File	Sample Number	Analysis Date:
2M16103.D	20 PPB	05/20/14 15:30
2M16104.D	BLK	05/20/14 15:50
2M16105.D	CAL @ 20 PPB	05/20/14 16:06
2M16106.D	BLK	05/20/14 16:22
2M16111.D	CAL @ 0.5 PPB	05/20/14 17:45
2M16112.D	CAL @ 1 PPB	05/20/14 18:01
2M16113.D	CAL @ 5 PPB	05/20/14 18:17
2M16114.D	CAL @ 10 PPB	05/20/14 18:33
2M16115.D	CAL @ 20 PPB	05/20/14 18:49
2M16116.D	BLK	05/20/14 19:05
2M16117.D	CAL @ 50 PPB	05/20/14 19:21
2M16118.D	CAL @ 100 PPB	05/20/14 19:37
2M16119.D	BLK	05/20/14 19:53
2M16120.D	BLK	05/20/14 20:09
2M16121.D	CAL @250 PPB	05/20/14 20:25
2M16122.D	BLK	05/20/14 20:41
2M16123.D	BLK	05/20/14 20:56
2M16124.D	CAL @ 500 PPB	05/20/14 21:12
2M16125.D	BLK	05/20/14 21:28
2M16126.D	BLK	05/20/14 21:44
2M16127.D	BLK	05/20/14 22:00
2M16128.D	BLK	05/20/14 22:16
2M16129.D	ICV	05/20/14 22:32
2M16130.D	ICV	05/20/14 22:48
2M16131.D	BLK	05/20/14 23:04
2M16132.D	DAILY BLANK	05/20/14 23:20
2M16133.D	DAILY BLANK	05/20/14 23:36
2M16134.D	AC78679-001	05/20/14 23:52
2M16135.D	AC78677-001	05/21/14 00:08
2M16136.D	AC78740-004	05/21/14 00:24
2M16137.D	AC78740-003	05/21/14 00:40
2M16138.D	AC78629-005	05/21/14 00:56
2M16139.D	AC78682-003	05/21/14 01:12
2M16140.D	BLK	05/21/14 01:28
2M16141.D	AC78716-002(400u	05/21/14 01:43
2M16142.D	MBS35793	05/21/14 01:59
2M16143.D	MBS35794	05/21/14 02:15
2M16144.D	MBS35795	05/21/14 02:31
2M16146.D	STD	05/21/14 09:19
2M16147.D	STD	05/21/14 09:35
2M16148.D	BLK	05/21/14 09:51
2M16149.D	AC78732-001	05/21/14 10:16
2M16150.D	AC78732-016	05/21/14 10:33
2M16151.D	AC78722-009	05/21/14 10:50
2M16152.D	AC78732-009	05/21/14 11:06
2M16153.D	AC78732-008	05/21/14 11:22
2M16154.D	AC78732-010	05/21/14 11:38
2M16155.D	AC78732-011	05/21/14 11:54

Form 5

Tune Name: BFB TUNE **Data File:** 2M17649.D
Instrument: GCMS 2 **Analysis Date:** 06/17/14 12:49
Method: EPA 8260C

Tune Scan/Time Range: Average of 4.508 to 4.528 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	19.3	2283	PASS
75	95	30	60	54.9	6477	PASS
95	95	100	100	100.0	11802	PASS
96	95	5	9	5.6	666	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	99.1	11698	PASS
175	174	5	9	8.1	944	PASS
176	174	95	101	96.6	11306	PASS
177	176	5	9	8.9	1002	PASS

Data File	Sample Number	Analysis Date:
2M17650.D	20 PPB	06/17/14 12:59
2M17651.D	BLK	06/17/14 13:15
2M17652.D	CAL @ 20 PPB	06/17/14 13:31
2M17653.D	BLK	06/17/14 13:47
2M17654.D	BLK	06/17/14 14:03
2M17655.D	BLK	06/17/14 14:19
2M17656.D	BLK	06/17/14 14:41
2M17657.D	BLK	06/17/14 14:57
2M17658.D	BLK	06/17/14 15:13
2M17659.D	BLK	06/17/14 15:29
2M17660.D	BLKBLK	06/17/14 15:45
2M17661.D	BLKBLK	06/17/14 16:00
2M17662.D	DAILY BLANK	06/17/14 16:15
2M17663.D	MBS36472	06/17/14 16:31
2M17664.D	AC79174-025(T)	06/17/14 16:47
2M17665.D	AC79174-026(T)	06/17/14 17:03
2M17666.D	BLK	06/17/14 17:19
2M17667.D	BLK	06/17/14 17:35
2M17668.D	79225-001	06/17/14 17:51
2M17669.D	AC79162-017	06/17/14 18:07
2M17670.D	AC79170-001	06/17/14 18:23
2M17671.D	AC79123-023(MS)	06/17/14 18:39
2M17672.D	AC79123-023(MSD	06/17/14 18:55
2M17673.D	AC79132-002(T)	06/17/14 19:11
2M17674.D	EF-1-V-188693(061	06/17/14 19:27
2M17675.D	AC79132-004(T)	06/17/14 19:43
2M17676.D	AC79132-006(T)	06/17/14 20:03
2M17677.D	AC79132-008(T)	06/17/14 20:19
2M17678.D	AC79197-001(T)	06/17/14 20:35
2M17679.D	AC79197-002(T)	06/17/14 20:51
2M17680.D	AC79197-003(T)	06/17/14 21:07
2M17681.D	AC79207-001(T)	06/17/14 21:23
2M17682.D	AC79132-002(T:M	06/17/14 21:39
2M17683.D	AC79132-002(T:M	06/17/14 21:55
2M17684.D	MBS36480	06/17/14 22:11
2M17685.D	BLK	06/17/14 22:27
2M17686.D	AC79170-002	06/17/14 22:43
2M17687.D	AC79170-003	06/17/14 22:59
2M17688.D	AC79188-006	06/17/14 23:15
2M17689.D	AC79188-007	06/17/14 23:31
2M17690.D	AC79188-008	06/17/14 23:47
2M17691.D	AC79188-009	06/18/14 00:03
2M17692.D	BLK	06/18/14 00:18
2M17693.D	BLK	06/18/14 00:34
2M17694.D	BLK	06/18/14 00:50
2M17695.D	MBS36481	06/18/14 01:06
2M17696.D	BLK	06/18/14 01:22
2M17697.D	AC79175-003	06/18/14 01:38
2M17698.D	AC79175-005	06/18/14 01:54
2M17699.D	AC79175-007	06/18/14 02:10
2M17700.D	BLK	06/18/14 02:25
2M17701.D	AC79175-001(200X	06/18/14 02:41
2M17702.D	AC79175-006(200X	06/18/14 02:57
2M17703.D	79135-006(50X)	06/18/14 03:13
2M17704.D	79135-007(50X)	06/18/14 03:29
2M17705.D	79135-004(50X)	06/18/14 03:46
2M17706.D	79135-003(20X)	06/18/14 04:02
2M17707.D	AC79175-002(20X)	06/18/14 04:18
2M17708.D	AC79175-004(5X)	06/18/14 04:34
2M17709.D	MBS36482	06/18/14 04:49
2M17710.D	AC79195-002(MS)	06/18/14 05:05
2M17711.D	AC79195-002(MSD	06/18/14 05:22

FORM8

Internal Standard Areas

Evaluation Std Data File: 2M16115.D Method: EPA 8260C

Analysis Date/Time: 05/20/14 18:49

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	282519	4.65	229766	6.49	149903	7.92						
Eval File Area Limit:	141260-565038		114883-459532		74952-299806							
Eval File Rt Limit:	4.15-5.15		5.99-6.99		7.42-8.42							

Data File	Sample						
2M16103.D	20 PPB	437233	4.63	398040	6.47	247053	7.90
2M16104.D	BLK	194098	4.63	180279	6.48	104395	7.90
2M16106.D	BLK	193879	4.64	181481	6.48	111346	7.90
2M16111.D	CAL @ 0.5 PF	251813	4.64	217414	6.48	129126	7.90
2M16112.D	CAL @ 1 PPB	253422	4.63	220999	6.48	130481	7.90
2M16113.D	CAL @ 5 PPB	269365	4.63	220640	6.48	138197	7.90
2M16114.D	CAL @ 10 PP	278569	4.63	233318	6.48	149692	7.90
2M16115.D	CAL @ 20 PP	282519	4.65	229766	6.49	149903	7.92
2M16116.D	BLK	265146	4.63	219193	6.48	130890	7.90
2M16117.D	CAL @ 50 PP	289274	4.64	244421	6.48	156555	7.90
2M16118.D	CAL @ 100 P	288317	4.63	248682	6.48	146176	7.90
2M16119.D	BLK	277666	4.63	238849	6.48	140902	7.90
2M16120.D	BLK	272441	4.63	230928	6.48	137735	7.90
2M16121.D	CAL @250 PF	294568	4.63	244247	6.48	144583	7.90
2M16122.D	BLK	274732	4.63	233654	6.48	144429	7.90
2M16123.D	BLK	272180	4.63	229047	6.48	140478	7.90
2M16124.D	CAL @ 500 P	300096	4.63	244917	6.48	138400	7.90
2M16125.D	BLK	274479	4.63	236365	6.48	146681	7.90
2M16126.D	BLK	271142	4.63	232057	6.48	140966	7.90
2M16127.D	BLK	268647	4.63	233213	6.48	135381	7.90
2M16128.D	BLK	264961	4.64	222871	6.48	131809	7.90
2M16129.D	ICV	280466	4.63	240672	6.48	150242	7.90
2M16130.D	ICV	274939	4.63	230816	6.48	144821	7.90
2M16131.D	BLK	268693	4.63	236307	6.48	139317	7.90
2M16132.D	DAILY BLANK	249919	4.63	217131	6.47	127861	7.90
2M16133.D	DAILY BLANK	256333	4.64	212069	6.47	122063	7.90
2M16134.D	AC78679-001	253403	4.63	223924	6.47	130039	7.90
2M16135.D	AC78677-001	249620	4.63	209429	6.47	123717	7.90
2M16136.D	AC78740-004	254139	4.63	223776	6.48	125801	7.90
2M16137.D	AC78740-003	245999	4.63	211041	6.48	124356	7.90
2M16138.D	AC78629-005	261945	4.63	225221	6.47	141066	7.90
2M16139.D	AC78682-003	251190	4.63	218443	6.47	125769	7.90
2M16140.D	BLK	279028	4.63	243523	6.48	145282	7.90
2M16141.D	AC78716-002	268155	4.63	244156	6.48	150900	7.90
2M16142.D	MBS35793	283687	4.63	244666	6.48	142702	7.90
2M16143.D	MBS35794	281666	4.63	247263	6.48	151220	7.90
2M16144.D	MBS35795	266551	4.63	228624	6.48	141641	7.90
2M16146.D	STD	311194	4.63	255892	6.47	140296	7.90
2M16147.D	STD	259672	4.63	214964	6.47	125694	7.90
2M16148.D	BLK	253490	4.63	221391	6.47	132948	7.90

I1 =	Fluorobenzene	I4 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =	624/8260 Internal Standard concentration = 30ug/L
I3 =	1.4-Dichlorobenzene-d4	I6 =	524 Internal Standard concentration =5ug/L

QC Limits:

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 2M17652.D Method: EPA 8260C

Analysis Date/Time: 06/17/14 13:31

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	198923	4.64	184635	6.49	119024	7.92						
Eval File Area Limit:	99462-397846		92318-369270		59512-238048							
Eval File Rt Limit:	4.14-5.14		5.99-6.99		7.42-8.42							

Data File	Sample											
2M17650.D	20 PPB	186719	4.64	170426	6.49	113019	7.92					
2M17651.D	BLK	175735	4.64	171752	6.49	102370	7.92					
2M17653.D	BLK	179732	4.64	175790	6.49	102277	7.92					
2M17654.D	BLK	176677	4.64	171727	6.49	99891	7.92					
2M17655.D	BLK	164623	4.65	159850	6.49	92543	7.93					
2M17656.D	BLK	17610 A	4.64	34752 A	6.50	47320 A	7.92					
2M17657.D	BLK	169862	4.65	167294	6.49	96946	7.92					
2M17658.D	BLK	170815	4.65	162192	6.49	94351	7.92					
2M17659.D	BLK	236280	4.65	226790	6.49	137244	7.93					
2M17660.D	BLKBLK	169397	4.65	167057	6.49	96471	7.93					
2M17661.D	BLKBLK	167346	4.65	165719	6.50	90965	7.92					
2M17662.D	DAILY BLANK	166600	4.65	160727	6.50	98797	7.93					
2M17663.D	MBS36472	197181	4.65	189128	6.49	119297	7.93					
2M17664.D	AC79174-025(	178986	4.65	170778	6.49	101850	7.92					
2M17665.D	AC79174-026(	180759	4.65	173401	6.49	102899	7.93					
2M17666.D	BLK	174321	4.65	171548	6.49	99889	7.93					
2M17667.D	BLK	180987	4.65	178077	6.50	104530	7.92					
2M17668.D	79225-001	170153	4.65	169483	6.49	97208	7.93					
2M17669.D	AC79162-017	173511	4.65	171511	6.49	101209	7.93					
2M17670.D	AC79170-001	202241	4.65	200640	6.49	117777	7.93					
2M17671.D	AC79123-023(	200746	4.65	189781	6.49	116146	7.93					
2M17672.D	AC79123-023(	205629	4.65	197772	6.50	123458	7.93					
2M17673.D	AC79132-002(	187096	4.65	182851	6.49	107669	7.93					
2M17674.D	EF-1-V-18869	191204	4.65	180048	6.49	105344	7.93					
2M17675.D	AC79132-004(	204647	4.65	183663	6.49	109852	7.93					
2M17676.D	AC79132-006(	206322	4.65	177146	6.49	103417	7.93					
2M17677.D	AC79132-008(	192575	4.65	168336	6.49	100638	7.93					
2M17678.D	AC79197-001(	192785	4.65	171786	6.49	107553	7.93					
2M17679.D	AC79197-002(	187673	4.65	176152	6.49	104570	7.93					
2M17680.D	AC79197-003(	192671	4.65	176525	6.49	106141	7.93					
2M17681.D	AC79207-001(	207391	4.65	183074	6.49	106924	7.93					
2M17682.D	AC79132-002(	198917	4.65	183334	6.49	116359	7.93					
2M17683.D	AC79132-002(	206636	4.65	192104	6.49	116598	7.93					
2M17684.D	MBS36480	206265	4.65	186823	6.49	121271	7.93					
2M17685.D	BLK	198260	4.65	180406	6.49	105249	7.93					
2M17686.D	AC79170-002	189550	4.65	180633	6.49	103590	7.93					
2M17687.D	AC79170-003	187162	4.65	178700	6.49	103700	7.93					
2M17688.D	AC79188-006	184606	4.65	175914	6.49	107819	7.93					
2M17689.D	AC79188-007	186774	4.65	178337	6.49	101604	7.93					
2M17690.D	AC79188-008	190798	4.65	180585	6.50	108200	7.93					
2M17691.D	AC79188-009	187133	4.66	175552	6.51	109663	7.95					
2M17692.D	BLK	178903	4.65	177389	6.50	102747	7.93					
2M17693.D	BLK	182877	4.65	178818	6.50	108970	7.93					
2M17694.D	BLK	179523	4.65	173292	6.50	103983	7.93					
2M17695.D	MBS36481	192894	4.65	181884	6.50	119953	7.93					
2M17696.D	BLK	175064	4.65	179623	6.50	106104	7.93					
2M17700.D	BLK	190248	4.65	183182	6.49	106115	7.93					
2M17703.D	79135-006(50	194810	4.65	184071	6.50	112937	7.93					
2M17704.D	79135-007(50	182955	4.65	177282	6.50	104137	7.93					
2M17705.D	79135-004(50	180873	4.65	177504	6.50	102515	7.93					
2M17706.D	79135-003(20	197653	4.65	182866	6.50	103929	7.93					
2M17709.D	MBS36482	195271	4.65	185285	6.50	119527	7.93					
2M17710.D	AC79195-002(	199067	4.65	189197	6.50	120984	7.93					

I1 =	Fluorobenzene	I4 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =	624/8260 Internal Standard concentration = 30ug/L
I3 =	1.4-Dichlorobenzene-d4	I6 =	524 Internal Standard concentration =5ug/L

QC Limits:

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 2M17652.D Method: EPA 8260C

Analysis Date/Time: 06/17/14 13:31

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	198923	4.64	184635	6.49	119024	7.92						
Eval File Area Limit:	99462-397846		92318-369270		59512-238048							
Eval File Rt Limit:	4.14-5.14		5.99-6.99		7.42-8.42							
Data File	Sample											
2M17711.D	AC79195-002(	199039	4.65	197673	6.50	120473	7.93					

I1 =	Fluorobenzene	I4 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =	624/8260 Internal Standard concentration = 30ug/L
I3 =	1.4-Dichlorobenzene-d4	I6 =	524 Internal Standard concentration =5ug/L

QC Limits:

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

GC/MS Volatile Data
Sample Data

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC79170-001
Client Id: MW-SE-7
Data File: 2M17670.D
Analysis Date: 06/17/14 18:23
Date Rec/Extracted: 06/12/14-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
108-67-8	**1,3,5-Trimethylbenzene**	**1.0**	**210**	103-65-1	n-Propylbenzene	1.0	U
99-87-6	**4-Isopropyltoluene**	**1.0**	**4.4**	**95-47-6**	**o-Xylene**	**1.0**	**160**
71-43-2	**Benzene**	**0.50**	**240**	**135-98-8**	**sec-Butylbenzene**	**1.0**	**2.4**
100-41-4	Ethylbenzene	1.0	U	**98-06-6**	**t-Butylbenzene**	**1.0**	**1.1**
98-82-8	Isopropylbenzene	1.0	U	**108-88-3**	**Toluene**	**1.0**	**32**
136777612	m&p-Xylenes	1.0	U	79-01-6	Trichloroethene	1.0	U
1634-04-4	Methyl-t-butyl ether	0.50	U	**1330-20-7**	**Xylenes (Total)**	**1.0**	**160**

Worksheet #: 306528

Total Target Concentration 650

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Quantitation Report (QT Reviewed)

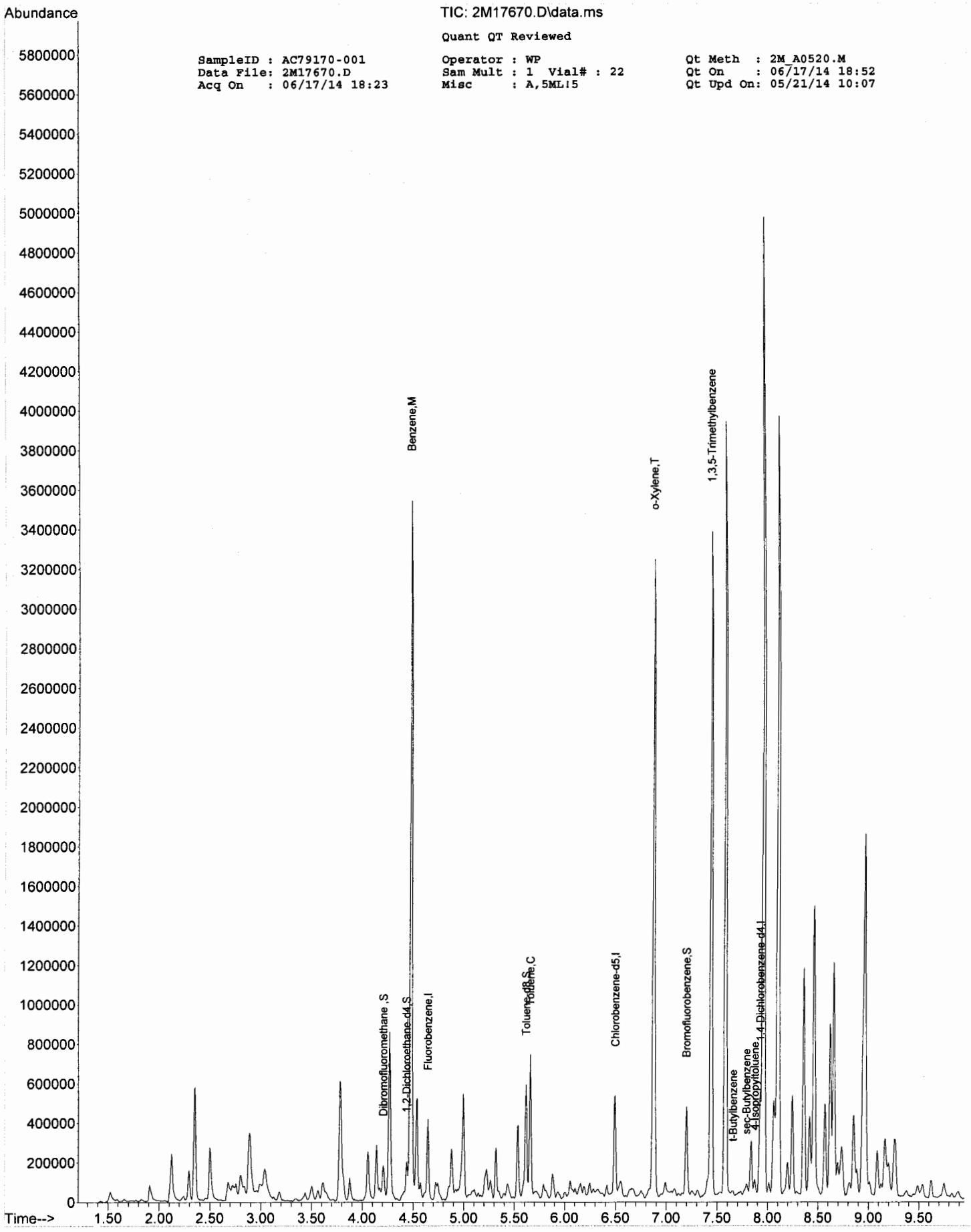
4061226 0032

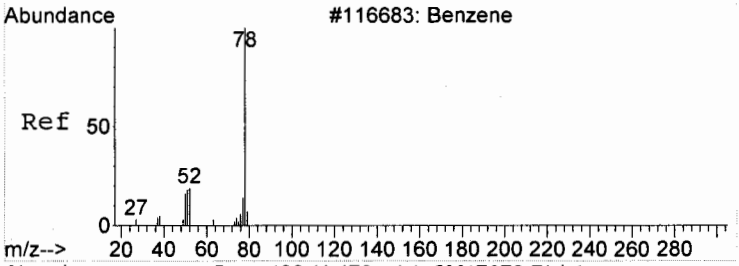
SampleID : AC79170-001 Operator : WP Qt Meth : 2M_A0520.M
Data File: 2M17670.D Sam Mult : 1 Vial# : 22 Qt On : 06/17/14 18:52
Acq On : 06/17/14 18:23 Misc : A,5ML!5 Qt Upd On: 05/21/14 10:07

Data Path : G:\GcMsData\2014\GCMS_2\Data\06-17-14\
Qt Path : G:\GcMsData\2014\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.646	96	202241	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.494	117	200640	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.927	152	117777	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.207	111	84098	33.83	ug/l	0.00
Spiked Amount 30.000			Recovery = 112.77%			
39) 1,2-Dichloroethane-d4	4.436	67	50176	36.39	ug/l	0.00
Spiked Amount 30.000			Recovery = 121.30%			
66) Toluene-d8	5.615	98	223877	27.09	ug/l	0.00
Spiked Amount 30.000			Recovery = 90.30%			
76) Bromofluorobenzene	7.199	174	103568	30.28	ug/l	0.00
Spiked Amount 30.000			Recovery = 100.93%			
Target Compounds						Qvalue
50) Benzene	4.478	78	1819687	235.9531	ug/l	100
67) Toluene	5.658	92	194424	31.6942	ug/l	92
79) o-Xylene	6.874	106	611920	163.6877	ug/l	85
93) 1,3,5-Trimethylbenzene	7.439	105	1499772	208.0782	ug/l	92
95) t-Butylbenzene	7.656	119	7784	1.1403	ug/l	84
97) sec-Butylbenzene	7.789	105	17889	2.4127	ug/l	85
98) 4-Isopropyltoluene	7.873	119	29081	4.3881	ug/l	93

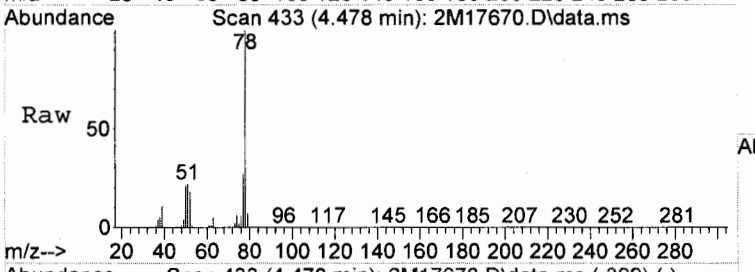
(#) = qualifier out of range (m) = manual integration (+) = signals summed

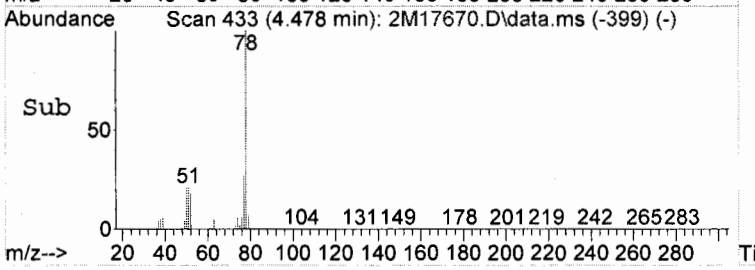

Abundance
TIC: 2M17670.D\data.ms
Quant QT Reviewed
SampleID : AC79170-001
Data File: 2M17670.D
Acq On : 06/17/14 18:23
Operator : WP
Sam Mult : 1 Vial# : 22
Misc : A,5ML;5
Qt Meth : 2M_A0520.M
Qt On : 06/17/14 18:52
Qt Upd On: 05/21/14 10:07
Benzene,M
o-Xylene,T
1,3,5-Trimethylbenzene
Dibromofluoromethane ,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Toluene,C
Chlorobenzene-d5,I
Bromofluorobenzene,S
t-Butylbenzene
sec-Butylbenzene
4-Isopropyltoluene
1,4-Dichlorobenzene-d4,I
Time-->

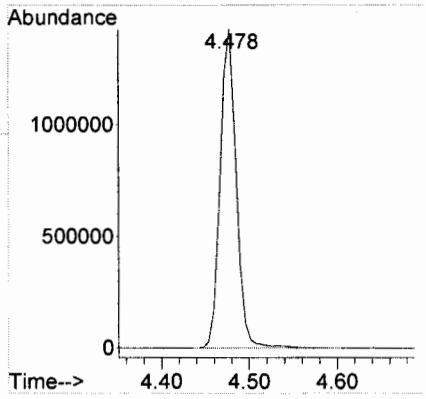


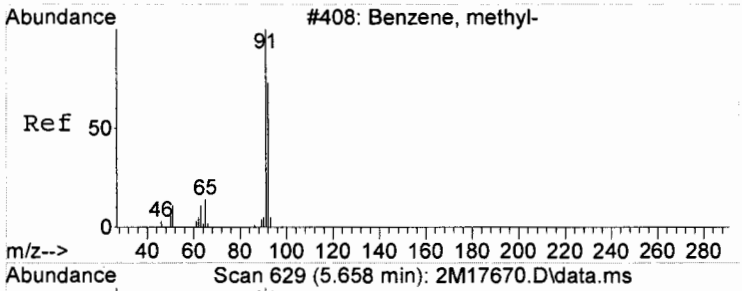
#50
Benzene
Concen: 235.95 ug/l
RT: 4.478 min Scan# 433
Delta R.T. 0.005 min
Lab File: 2M17670.D
Acq: 17 Jun 2014 18:23

Tgt Ion: 78 Resp: 1819687





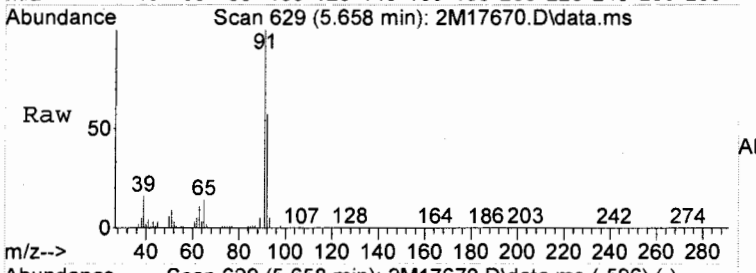


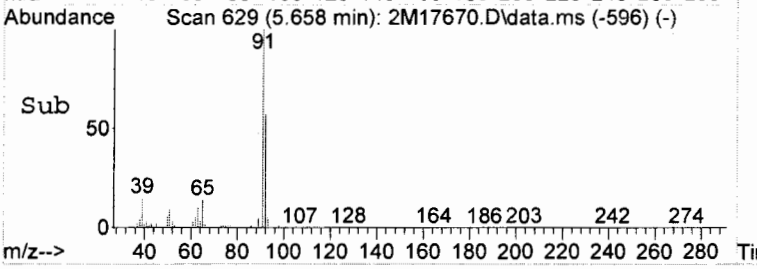


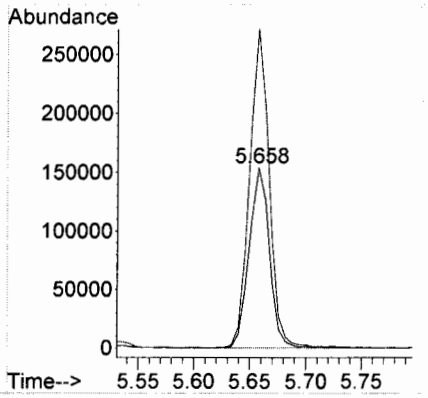
#67
Toluene
Concen: 31.69 ug/l
RT: 5.658 min Scan# 629
Delta R.T. -0.001 min
Lab File: 2M17670.D
Acq: 17 Jun 2014 18:23

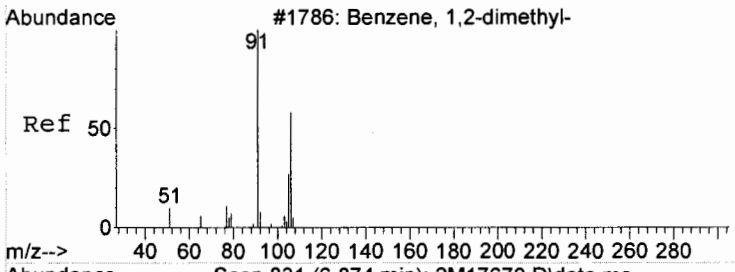
Tgt Ion: 92 Resp: 194424

Ion	Ratio	Lower	Upper
92	100		
91	176.2	99.4	231.8





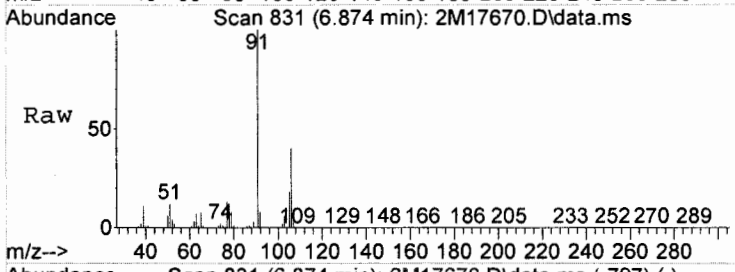


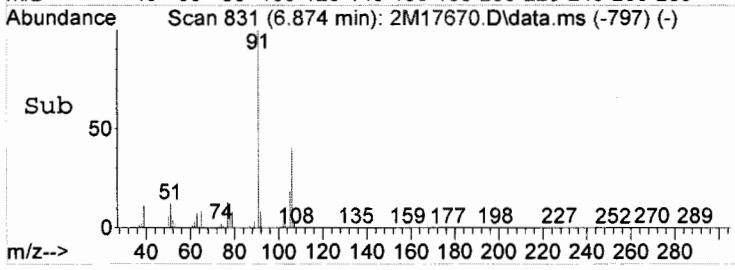


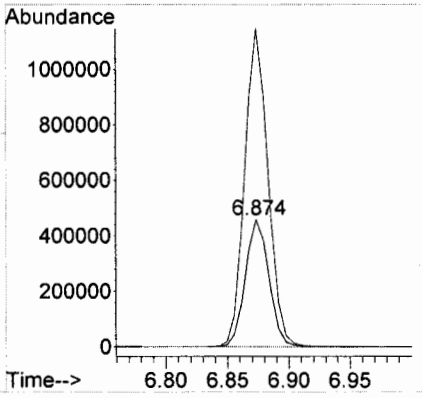
#79
o-Xylene
Concen: 163.69 ug/l
RT: 6.874 min Scan# 831
Delta R.T. 0.005 min
Lab File: 2M17670.D
Acq: 17 Jun 2014 18:23

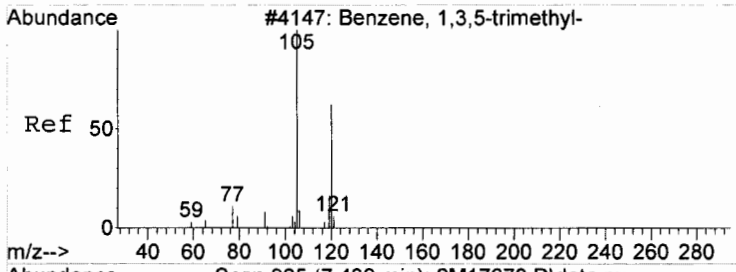
Tgt Ion:106 Resp: 611920

Ion	Ratio	Lower	Upper
106	100		
91	250.2	45.0	405.0





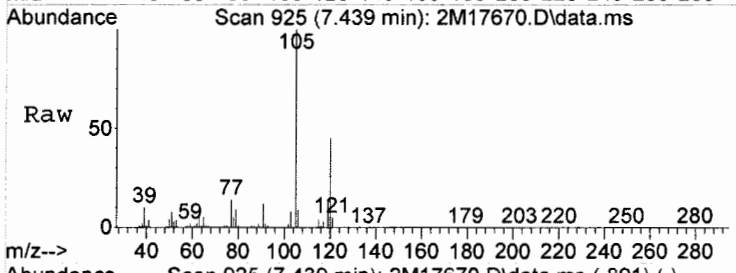


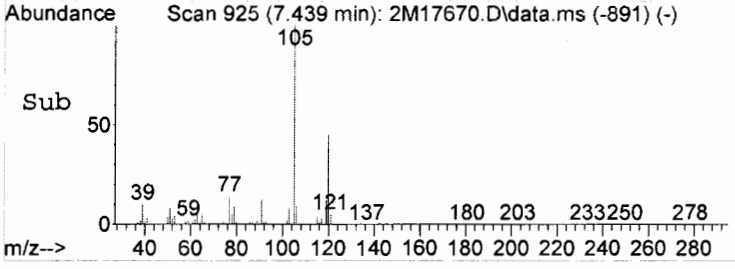


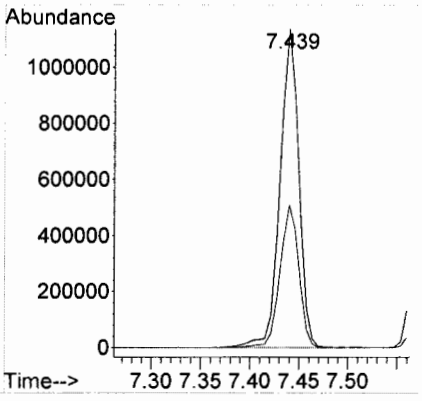
#93
1,3,5-Trimethylbenzene
Concen: 208.08 ug/l
RT: 7.439 min Scan# 925
Delta R.T. 0.005 min
Lab File: 2M17670.D
Acq: 17 Jun 2014 18:23

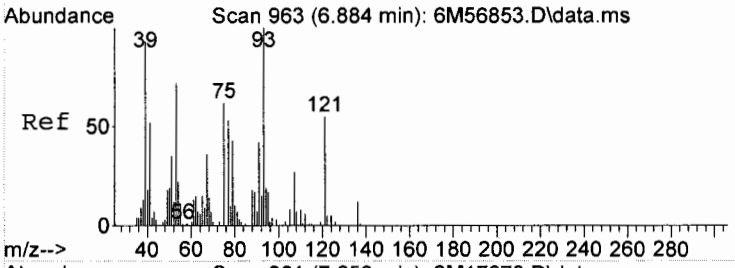
Tgt Ion:105 Resp: 1499772

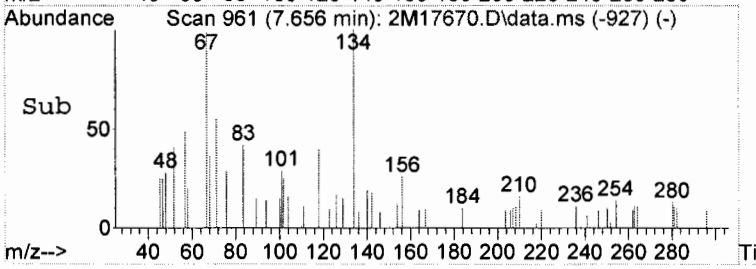
Ion	Ratio	Lower	Upper
105	100		
120	44.9	0.0	80.0







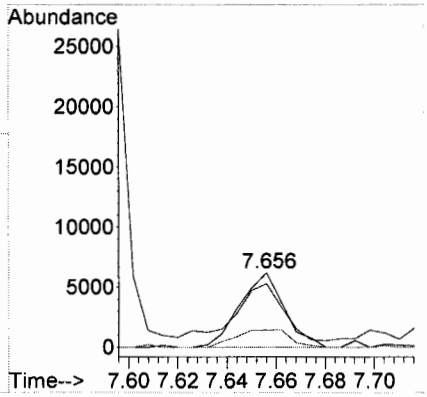


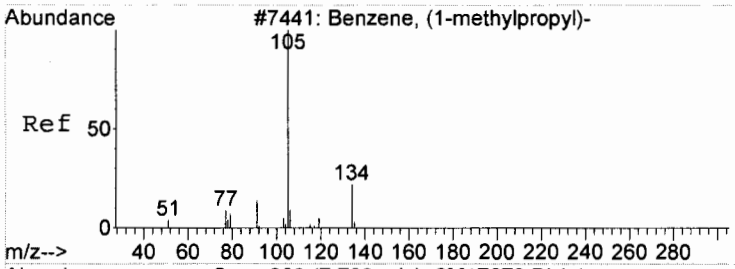


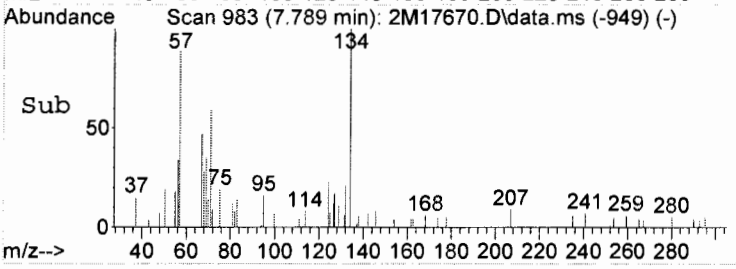
#95
t-Butylbenzene
Concen: 1.14 ug/l
RT: 7.656 min Scan# 961
Delta R.T. 0.005 min
Lab File: 2M17670.D
Acq: 17 Jun 2014 18:23

Tgt Ion:119 Resp: 7784

Ion	Ratio	Lower	Upper
119	100		
91	81.1	57.0	137.0
134	28.9	0.0	60.8



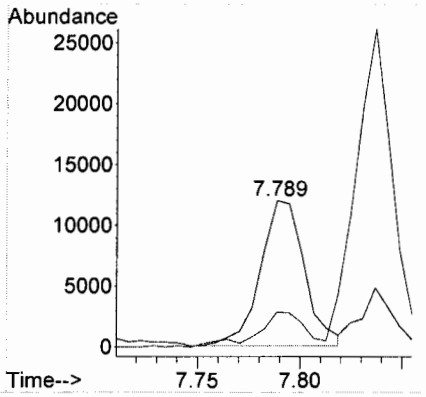


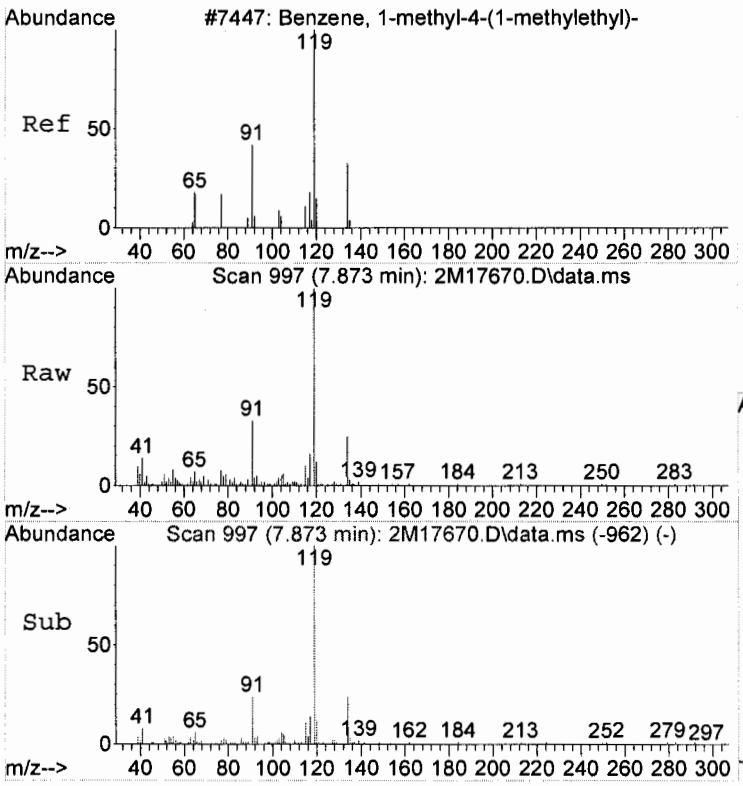


#97
sec-Butylbenzene
Concen: 2.41 ug/l
RT: 7.789 min Scan# 983
Delta R.T. 0.005 min
Lab File: 2M17670.D
Acq: 17 Jun 2014 18:23

Tgt Ion:105 Resp: 17889

Ion	Ratio	Lower	Upper
105	100		
134	26.4	0.0	59.7

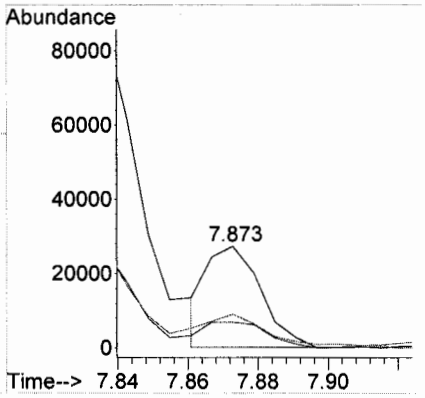




#98
4-Isopropyltoluene
Concen: 4.39 ug/l
RT: 7.873 min Scan# 997
Delta R.T. 0.011 min
Lab File: 2M17670.D
Acq: 17 Jun 2014 18:23

Tgt Ion:119 Resp: 29081

Ion	Ratio	Lower	Upper
119	100		
134	28.5	0.0	63.0
91	36.0	0.0	73.9



Form1

ORGANICS VOLATILE REPORT

Sample Number: AC79170-002
Client Id: FB
Data File: 2M17686.D
Analysis Date: 06/17/14 22:43
Date Rec/Extracted: 06/12/14-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	103-65-1	n-Propylbenzene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	95-47-6	o-Xylene	1.0	U
71-43-2	Benzene	0.50	U	135-98-8	sec-Butylbenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	108-88-3	Toluene	1.0	U
136777612	m&p-Xylenes	1.0	U	79-01-6	Trichloroethene	1.0	U
1634-04-4	Methyl-t-butyl ether	0.50	U	1330-20-7	Xylenes (Total)	1.0	U

Worksheet #: 306528

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Quantitation Report (QT Reviewed)

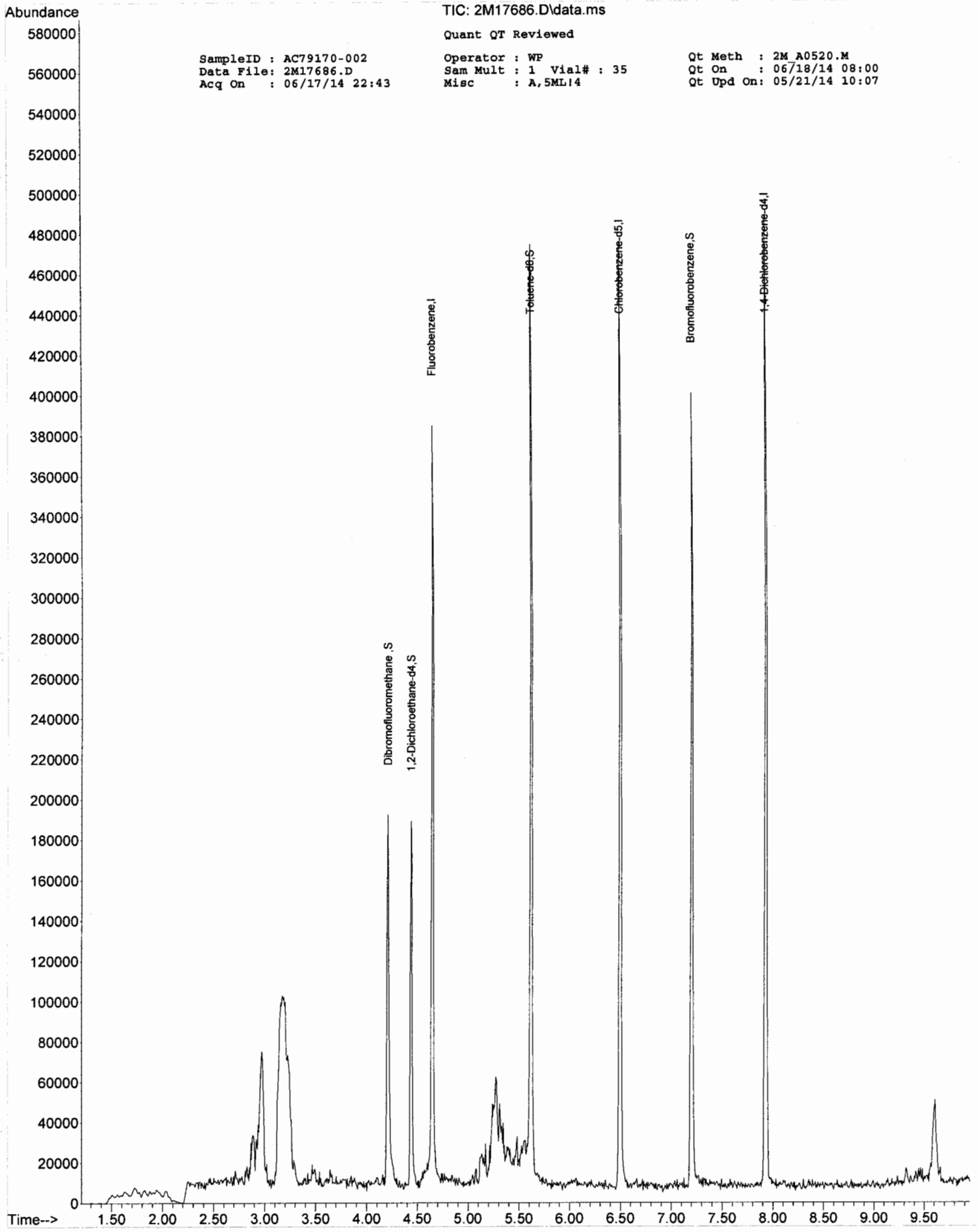
SampleID : AC79170-002 Operator : WP Qt Meth : 2M_A0520.M
Data File: 2M17686.D Sam Mult : 1 Vial# : 35 Qt On : 06/18/14 08:00
Acq On : 06/17/14 22:43 Misc : A,5ML!4 Qt Upd On: 05/21/14 10:07

Data Path : G:\GcMsData\2014\GCMS_2\Data\06-17-14\
Qt Path : G:\GcMsData\2014\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.646	96	189550	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.494	117	180633	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.927	152	103590	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.207	111	80394	34.50	ug/l	0.00
Spiked Amount 30.000			Recovery =	115.00%		
39) 1,2-Dichloroethane-d4	4.436	67	45401	35.14	ug/l	0.00
Spiked Amount 30.000			Recovery =	117.13%		
66) Toluene-d8	5.621	98	204907	27.54	ug/l	0.00
Spiked Amount 30.000			Recovery =	91.80%		
76) Bromofluorobenzene	7.199	174	87077	28.95	ug/l	0.00
Spiked Amount 30.000			Recovery =	96.50%		

Target Compounds Qvalue

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


Abundance
TIC: 2M17686.D\data.ms
Quant QT Reviewed
SampleID : AC79170-002
Data File: 2M17686.D
Acq On : 06/17/14 22:43
Operator : WP
Sam Mult : 1 Vial# : 35
Misc : A,5ML!4
Qt Meth : 2M_A0520.M
Qt On : 06/18/14 08:00
Qt Upd On: 05/21/14 10:07
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: AC79170-003
Client Id: TB
Data File: 2M17687.D
Analysis Date: 06/17/14 22:59
Date Rec/Extracted: 06/12/14-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	103-65-1	n-Propylbenzene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	95-47-6	o-Xylene	1.0	U
71-43-2	Benzene	0.50	U	135-98-8	sec-Butylbenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	108-88-3	Toluene	1.0	U
136777612	m&p-Xylenes	1.0	U	79-01-6	Trichloroethene	1.0	U
1634-04-4	Methyl-t-butyl ether	0.50	U	1330-20-7	Xylenes (Total)	1.0	U

Worksheet #: 306528

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

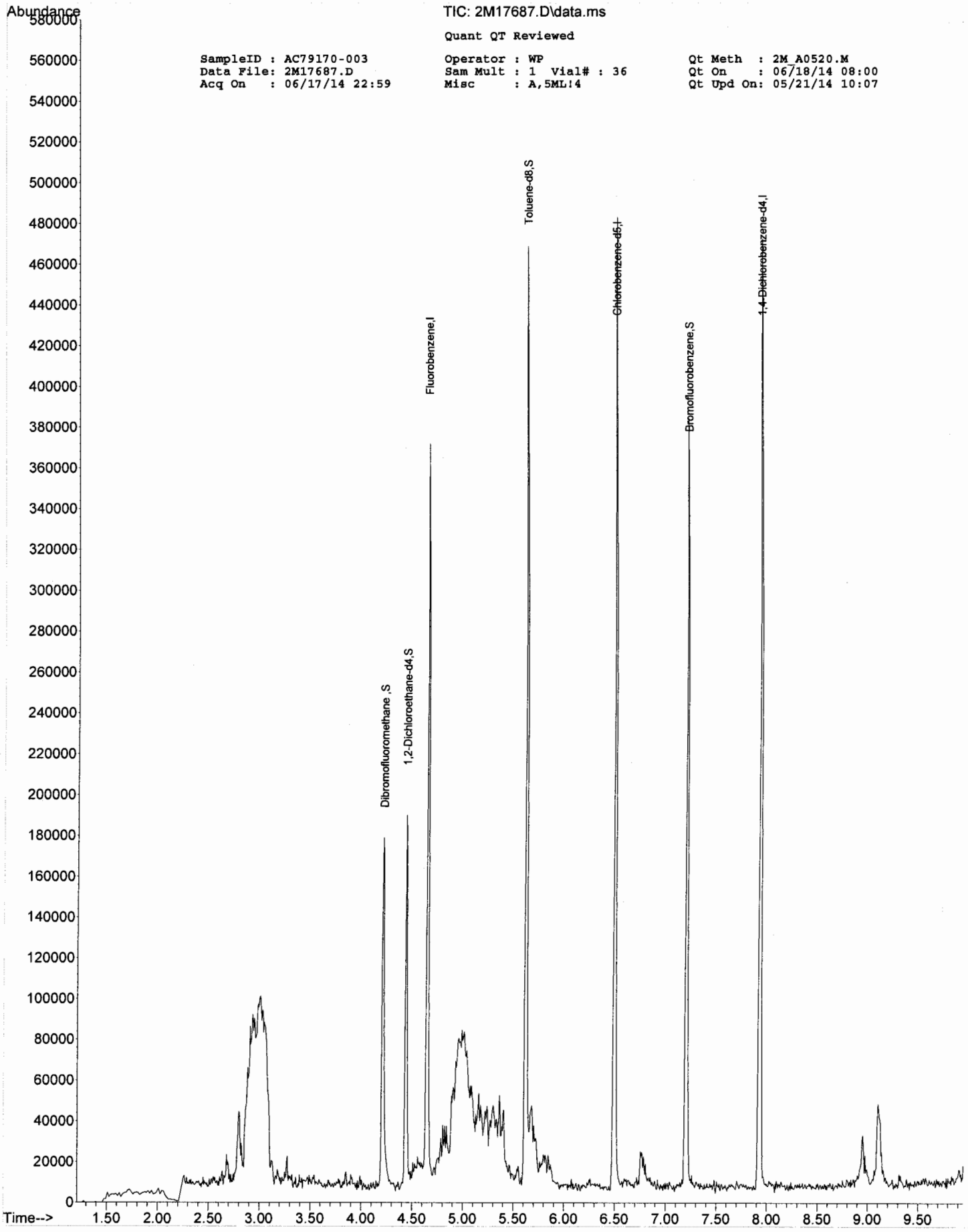
4061226 0042

SampleID : AC79170-003 Operator : WP Qt Meth : 2M_A0520.M
Data File: 2M17687.D Sam Mult : 1 Vial# : 36 Qt On : 06/18/14 08:00
Acq On : 06/17/14 22:59 Misc : A,5ML!4 Qt Upd On: 05/21/14 10:07

Data Path : G:\GcMsData\2014\GCMS_2\Data\06-17-14\
Qt Path : G:\GcMsData\2014\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.647	96	187162	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.495	117	178700	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.927	152	103700	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.213	111	82933	36.05	ug/l	0.00
Spiked Amount 30.000			Recovery = 120.17%			
39) 1,2-Dichloroethane-d4	4.436	67	42111	33.01	ug/l	0.00
Spiked Amount 30.000			Recovery = 110.03%			
66) Toluene-d8	5.622	98	197464	26.83	ug/l	0.00
Spiked Amount 30.000			Recovery = 89.43%			
76) Bromofluorobenzene	7.205	174	84560	28.08	ug/l	0.01
Spiked Amount 30.000			Recovery = 93.60%			
Target Compounds						Qvalue

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


Abundance
TIC: 2M17687.D\data.ms
Quant QT Reviewed
SampleID : AC79170-003
Data File: 2M17687.D
Acq On : 06/17/14 22:59
Operator : WP
Sam Mult : 1 Vial# : 36
Misc : A,5ML!4
Qt Meth : 2M_A0520.M
Qt On : 06/18/14 08:00
Qt Upd On: 05/21/14 10:07
Dibromofluoromethane ,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

GC/MS Volatile Data
Standards Data

4061226 0045

Form 6
Initial Calibration

Method: EPA 8260C

Instrument: GCMS_2

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	2M16115.	CAL @ 20 PPB	05/20/14 18:49	2	2M16113.	CAL @ 5 PPB	05/20/14 18:17
3	2M16114.	CAL @ 10 PPB	05/20/14 18:33	4	2M16117.	CAL @ 50 PPB	05/20/14 19:21
5	2M16118.	CAL @ 100 PPB	05/20/14 19:37	6	2M16121.	CAL @250 PPB	05/20/14 20:25
7	2M16124.	CAL @ 500 PPB	05/20/14 21:12	8	2M16112.	CAL @ 1 PPB	05/20/14 18:01
9	2M16111.	CAL @ 0.5 PPB	05/20/14 17:45				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd			Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9	
Chlorodifluoromethane	1	0	Avg	0.5469	0.5907	0.6215	0.6249	0.6113	0.4994	0.4808	0.5810	-----	0.570	1.33	0.997	0.998	9.7	0.10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00		
Dichlorodifluoromethan	1	0	Avg	0.3991	0.3519	0.3949	0.3828	0.4224	0.3731	0.3489	0.3241	-----	0.375	1.33	0.998	1.00	8.5			20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00		
Chloromethane	1	0	Avg	0.2939	0.3036	0.3133	0.2903	0.2838	0.2992	0.2948	0.3132	-----	0.299	1.46	1.00	1.00	3.5	0.10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00		
Bromomethane	1	0	Avg	0.1814	0.1915	0.2178	0.1909	0.1789	0.1602	-----	0.1653	-----	0.184	1.79	0.997	1.00	10	0.10		20.00	5.00	10.00	50.00	100.0	250.0		1.00		
Vinyl Chloride	1	0	Avg	0.2419	0.2360	0.2634	0.2608	0.2520	0.2585	0.2501	0.2707	-----	0.254	1.53	1.00	1.00	4.5	0.10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00		
Chloroethane	1	0	Qua	0.1626	0.1655	0.1587	0.1576	0.1496	0.1530	0.1348	0.2850	-----	0.171	1.86	0.996	1.00	28	0.10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00		
Trichlorofluoromethane	1	0	Avg	0.4027	0.3746	0.4165	0.4036	0.4299	0.3826	0.3665	0.4151	-----	0.399	2.04	0.999	1.00	5.6	0.10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00		
Ethyl ether	1	0	Avg	0.1735	0.1506	0.1913	0.2390	0.2226	0.2294	0.2082	0.2039	-----	0.202	2.28	0.997	1.00	15			20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00		
Furan	1	0	Avg	0.5490	0.5539	0.5782	0.5917	0.5505	0.6701	0.6325	0.5882	-----	0.589	2.31	0.998	0.998	7.3			20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00		
1.1.2-Trichloro-1.2.2-tri	1	0	Avg	0.2312	0.2098	0.2428	0.2172	0.2407	0.2046	0.1903	0.1754	-----	0.214	2.44	0.997	0.999	11	0.10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00		
Methylene Chloride	1	0	Avg	0.2819	0.3008	0.2975	0.2994	0.2772	0.2876	0.2621	0.3463	-----	0.294	2.82	0.998	1.00	8.4	0.10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00		
Acrolein	1	0	Qua	0.0403	0.0249	0.0372	0.0441	0.0413	0.0425	0.0398	0.0245	-----	0.0369	2.38	0.999	1.00	21			100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00		
Acrylonitrile	1	0	Avg	0.1074	0.0874	0.0967	0.1008	0.1043	0.0968	0.0932	0.1154	-----	0.100	3.03	0.999	1.00	8.7			20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00		
Iodomethane	1	0	Avg	0.4607	0.4373	0.4510	0.4750	0.4491	0.4568	0.4128	0.4378	-----	0.448	2.58	0.998	1.00	4.2			20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00		
Acetone	1	0	Avg	0.0791	0.0655	0.0808	0.0811	0.0745	0.0765	0.0706	0.0748	-----	0.0754	2.50	0.998	1.00	7.1	0.10	a	100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00		
Carbon Disulfide	1	0	Avg	0.6809	0.6413	0.6786	0.7199	0.7410	0.7264	0.6830	0.7234	-----	0.699	2.63	0.999	1.00	4.8	0.10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00		
t-Butyl Alcohol	1	0	Avg	0.0132	0.0110	0.0103	0.0135	0.0136	0.0132	0.0128	0.0097	-----	0.0122	2.91	1.00	1.00	13			100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00		
n-Hexane	1	0	Avg	0.1989	0.1365	0.1851	0.2223	0.2552	0.2150	0.1974	0.1936	-----	0.201	3.26	0.996	0.999	17			20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00		
Di-isopropyl-ether	1	0	Avg	0.8953	0.7469	0.8332	0.9470	0.8993	0.9468	0.8775	0.7415	-----	0.861	3.43	0.999	1.00	9.4			20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00		
1.1-Dichloroethene	1	0	Avg	0.3946	0.3294	0.3744	0.4060	0.4067	0.3918	0.3610	0.3904	-----	0.382	2.45	0.998	1.00	6.8	0.10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00		
Methyl Acetate	1	0	Avg	0.2798	0.2440	0.2692	0.2799	0.2618	0.2739	0.2609	0.3178	-----	0.273	2.74	0.999	1.00	7.9	0.10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00		
Methyl-t-butyl ether	1	0	Avg	0.5024	0.4188	0.4718	0.5203	0.5035	0.5058	0.4590	0.4054	0.5785	0.485	3.04	0.998	1.00	11	0.10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50	
1.1-Dichloroethane	1	0	Avg	0.4898	0.4820	0.4670	0.5140	0.4924	0.4957	0.4627	0.4551	-----	0.482	3.39	0.999	1.00	4.1	0.20		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00		
trans-1.2-Dichloroether	1	0	Avg	0.2671	0.2528	0.2542	0.2742	0.2733	0.2615	0.2316	0.2723	-----	0.261	3.04	0.996	1.00	5.5	0.10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00		
Ethyl-t-butyl ether	1	0	Avg	0.2063	0.1758	0.1838	0.2199	0.2077	0.2218	0.2146	0.1804	-----	0.201	3.74	1.00	1.00	9.2			20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00		
cis-1.2-Dichloroethene	1	0	Avg	0.5158	0.5322	0.5224	0.5279	0.4127	0.5114	0.4551	0.4679	-----	0.493	3.86	0.996	0.997	8.7	0.10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00		
Bromochloromethane	1	0	Avg	0.2499	0.2578	0.2515	0.2474	0.2343	0.2311	0.2143	0.3687	-----	0.257	4.04	0.999	1.00	18			20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00		
2.2-Dichloropropane	1	0	Avg	0.3460	0.3040	0.3233	0.3504	0.3498	0.3170	0.2770	0.2967	-----	0.321	3.86	0.994	1.00	8.5			20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00		
Ethyl acetate	1	0	Avg	0.2778	0.2358	0.2406	0.2947	0.3000	0.2959	0.2821	0.2456	-----	0.272	3.91	0.999	1.00	9.8			20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00		
1.4-Dioxane	1	0	Avg	0.0029	0.0025	0.0026	0.0029	0.0029	0.0026	0.0023	0.0020	-----	0.00263	5.10	0.996	1.00	12			1000.	250.0	500.0	2500.	5000.	1250	2500	50.00		
1.1-Dichloropropene	1	0	Avg	0.4159	0.3054	0.3883	0.4213	0.4122	0.3877	0.3342	0.3747	-----	0.380	4.33	0.994	1.00	11			20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00		
Chloroform	1	0	Avg	0.5704	0.5645	0.5672	0.5793	0.5445	0.5508	0.5087	0.5904	-----	0.560	4.09	0.998	1.00	4.5	0.20		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00		
Dibromofluoromethane	1	0	Avg	0.3687	0.3845	0.3772	0.3676	0.3686	0.3452	0.2961	0.3982	0.4125	0.369	4.21	-1	-1	9.1			30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	
Cyclohexane	1	0	Avg	0.3626	0.2650	0.3572	0.3735	0.4218	0.3905	0.3596	0.2980	-----	0.354	4.27	0.998	1.00	14	0.10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00		
1.2-Dichloroethane-d4	1	0	Avg	0.2030	0.2092	0.2141	0.1975	0.1963	0.1880	0.1780	0.2334	0.2207	0.205	4.44	-1	-1	8.3			30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	
1.2-Dichloroethane	1	0	Avg	0.5679	0.5375	0.5767	0.5738	0.5202	0.5006	0.4335	0.6200	0.6821	0.557	4.48	0.994	1.00	13	0.10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50	
2-Butanone	1	0	Avg	0.1326	0.0976	0.1266	0.1317	0.1234	0.1226	0.1148	0.0699	-----	0.115	3.88	0.999	1.00	19	0.10	a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00		
1.1.1-Trichloroethane	1	0	Avg	0.5242	0.4762	0.5116	0.5318	0.5301	0.5225	0.4655	0.5233	-----	0.511	4.23	0.997	1.00	5.0	0.10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00		
Carbon Tetrachloride	1	0	Avg	0.4870	0.4047	0.4639	0.4961	0.4917	0.4431	0.3834	0.5579	-----	0.466	4.34	0.993	1.00	12	0.10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00		
Vinyl Acetate	1	0	Avg	0.7870	0.6693	0.7116	0.8494	0.8093	0.8294	0.7753	0.5183	-----	0.744	3.43	0.999	1.00	15			20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00		
Bromodichloromethane	1	0	Avg	0.5431	0.4519	0.5391	0.5540	0.5171	0.5278	0.4745	0.5180	-----	0.516	5.18	0.997	1.00	6.8	0.20		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00		

Avg Rsd: 10.6

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note:

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Form 6
Initial Calibration

Method: EPA 8260C

Instrument: GCMS_2

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	2M16115.	CAL @ 20 PPB	05/20/14 18:49	2	2M16113.	CAL @ 5 PPB	05/20/14 18:17
3	2M16114.	CAL @ 10 PPB	05/20/14 18:33	4	2M16117.	CAL @ 50 PPB	05/20/14 19:21
5	2M16118.	CAL @ 100 PPB	05/20/14 19:37	6	2M16121.	CAL @250 PPB	05/20/14 20:25
7	2M16124.	CAL @ 500 PPB	05/20/14 21:12	8	2M16112.	CAL @ 1 PPB	05/20/14 18:01
9	2M16111.	CAL @ 0.5 PPB	05/20/14 17:45				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Methylcyclohexane	1	0	Avg	0.3071	0.2122	0.2761	0.3228	0.3662	0.3159	0.2864	0.2796	-----	0.296	5.00	0.995	0.999	15	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromomethane	1	0	Avg	0.3197	0.3134	0.3575	0.3289	0.2941	0.2819	0.2406	0.3875	-----	0.316	5.09	0.993	1.00	14		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1.2-Dichloropropane	1	0	Avg	0.3104	0.3101	0.3222	0.3201	0.3108	0.3142	0.2883	0.3391	-----	0.314	5.01	0.998	1.00	4.6	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Trichloroethene	1	0	Avg	0.3598	0.3585	0.3690	0.3811	0.3554	0.3514	0.3103	0.3520	-----	0.355	4.87	0.996	1.00	5.8	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Benzene	1	0	Avg	1.1811	1.0706	1.1836	1.2005	1.1385	1.1283	1.0043	0.9914	1.3972	1.14	4.47	0.997	1.00	11	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
tert-Amyl methyl ether	1	0	Avg	0.4418	0.4102	0.4446	0.4698	0.4606	0.4552	0.4193	0.4352	-----	0.442	4.53	0.998	1.00	4.6		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Iso-propylacetate	1	0	Avg	0.5602	0.4257	0.4772	0.6133	0.6037	0.6412	0.6208	0.3946	-----	0.542	4.50	1.00	1.00	18		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methyl methacrylate	1	0	Avg	0.3581	0.2899	0.3156	0.3591	0.3530	0.3689	0.3528	0.2011	-----	0.325	5.06	1.00	1.00	17		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromochloromethane	1	0	Avg	0.5515	0.4953	0.4567	0.5358	0.4860	0.5101	0.4567	0.6000	-----	0.512	6.14	0.997	1.00	9.6	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Chloroethylvinylether	1	0	Qua	0.1988	0.1543	0.1741	0.2148	0.2152	0.2352	0.2242	0.1079	-----	0.191	5.35	0.999	1.00	22		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
cis-1.3-Dichloropropene	1	0	Avg	0.6135	0.5056	0.5379	0.6240	0.5938	0.6402	0.5963	0.5299	-----	0.580	5.45	0.999	1.00	8.5	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
trans-1.3-Dichloropropene	1	0	Avg	0.5423	0.4098	0.5058	0.5941	0.5691	0.6024	0.5692	0.3367	-----	0.516	5.78	0.999	1.00	18	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl methacrylate	1	0	Avg	0.3849	0.2795	0.3159	0.3988	0.4008	0.4198	0.3999	0.3146	-----	0.364	5.81	0.999	1.00	14		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1.1.2-Trichloroethane	1	0	Avg	0.3611	0.3318	0.3480	0.3532	0.3289	0.3455	0.3150	0.4843	-----	0.359	5.89	0.998	1.00	15	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1.2-Dibromoethane	1	0	Avg	0.3990	0.3492	0.3670	0.3930	0.3691	0.3807	0.3509	0.3704	-----	0.372	6.22	0.998	1.00	4.8	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1.3-Dichloropropane	1	0	Avg	0.6475	0.5877	0.6092	0.6292	0.5710	0.5832	0.5170	0.6589	-----	0.601	6.00	0.996	1.00	7.7		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Methyl-2-Pentanone	1	0	Qua	0.3133	0.2138	0.2821	0.3386	0.3445	0.3656	0.3561	0.1886	-----	0.300	5.53	1.00	1.00	22	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Hexanone	1	0	Qua	0.2030	0.1718	0.1920	0.2426	0.2410	0.2494	0.2426	0.1106	-----	0.207	6.03	1.00	1.00	23	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Tetrachloroethene	1	0	Avg	0.4210	0.3837	0.3984	0.4051	0.3683	0.3444	0.2882	0.4293	-----	0.380	5.99	0.991	1.00	12	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Toluene-d8	1	0	Avg	1.2796	1.2106	1.2393	1.2166	1.2259	1.2810	1.2743	1.1830	1.2088	1.24	5.62	-1	-1	2.9		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Toluene	1	0	Avg	0.9521	0.9372	0.9307	0.9643	0.8974	0.9249	0.8327	0.8982	-----	0.917	5.66	0.997	1.00	4.5	0.40	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1.1.1.2-Tetrachloroethane	1	0	Avg	0.4721	0.4234	0.4413	0.4370	0.3933	0.3848	0.3224	0.4474	-----	0.415	6.55	0.992	1.00	11		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chlorobenzene	1	0	Avg	1.1769	1.1109	1.0725	1.1448	1.0222	1.0716	0.9692	1.1700	-----	1.09	6.51	0.998	1.00	6.7	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Butyl acrylate	1	0	Qua	0.9881	0.7398	0.8462	1.1288	1.2389	1.3420	1.3580	0.7042	-----	1.04	6.80	1.00	1.00	25		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Amyl acetate	1	0	Qua	0.8286	0.5138	0.6652	0.9406	1.0556	1.1232	1.1448	0.5559	-----	0.854	6.93	1.00	1.00	30		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromoform	1	0	Avg	0.6471	0.5833	0.6115	0.6604	0.6504	0.6726	0.6209	0.7267	-----	0.647	7.01	0.998	1.00	6.7	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethylbenzene	1	0	Avg	0.6349	0.5755	0.6137	0.6816	0.6764	0.6229	0.5191	0.4968	-----	0.603	6.56	0.990	1.00	11	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1.1.2.2-Tetrachloroethane	1	0	Avg	0.6276	0.6007	0.5931	0.6163	0.6329	0.6513	0.6000	0.6405	-----	0.620	7.26	0.998	1.00	3.4	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromofluorobenzene	1	0	Avg	0.8582	0.8438	0.8420	0.8351	0.8897	0.9127	0.8981	0.8839	0.8766	0.871	7.19	-1	-1	3.2		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Styrene	1	0	Avg	1.7746	1.5827	1.7233	1.8010	1.7592	1.7032	1.4778	1.3013	-----	1.64	6.87	0.995	1.00	11	0.30	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
m&p-Xylenes	1	0	Avg	1.0112	0.9295	0.9369	1.0219	0.9821	0.9433	0.8058	0.8454	0.8993	0.931	6.62	0.993	1.00	7.7	0.10	40.00	10.00	20.00	100.0	200.0	500.0	1000.	2.00	1.00
o-Xylene	1	0	Avg	1.0336	0.9048	0.9754	1.0387	0.9922	0.9460	0.8152	0.9116	-----	0.952	6.87	0.994	1.00	7.8	0.30	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
trans-1.4-Dichloro-2-bu	1	0	Avg	0.3114	0.3111	0.3599	0.3383	0.3544	0.3321	0.3045	0.4306	-----	0.343	7.29	0.998	1.00	12		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1.3-Dichlorobenzene	1	0	Avg	1.3879	1.3644	1.3206	1.3392	1.3037	1.3028	1.1606	1.5216	-----	1.34	7.88	0.997	1.00	7.5	0.60	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1.4-Dichlorobenzene	1	0	Avg	1.4319	1.3722	1.4085	1.3912	1.3509	1.3540	1.2177	1.6997	-----	1.40	7.93	0.997	1.00	9.7	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1.2-Dichlorobenzene	1	0	Avg	1.3221	1.2692	1.2470	1.3000	1.2611	1.2618	1.1629	1.4077	-----	1.28	8.18	0.998	1.00	5.5	0.40	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Isopropylbenzene	1	0	Avg	2.3610	1.9326	2.2600	2.4880	2.5269	2.4964	2.3408	1.8239	-----	2.28	7.08	0.999	1.00	12		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Cyclohexanone	1	0	Avg	0.0143	0.0171	0.0174	0.0149	0.0183	0.0166	0.0168	0.0182	-----	0.0167	7.17	0.999	0.999	8.6		100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
Camphene	1	0	Avg	0.5651	0.4477	0.5007	0.5540	0.6233	0.5861	0.5531	0.4074	-----	0.530	7.27	0.999	1.00	14		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1.2.3-Trichloropropane	1	0	Avg	0.8164	0.7217	0.7914	0.8101	0.8169	0.8305	0.7498	0.7626	-----	0.787	7.30	0.997	1.00	4.9		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Chlorotoluene	1	0	Avg	1.6678	1.4640	1.5623	1.5165	1.4991	1.4549	1.2408	1.3735	-----	1.47	7.41	0.993	1.00	8.6		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Avg Rsd: 10.6

Note:

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Method: EPA 8260C

Form 6
Initial Calibration

Instrument: GCMS_2

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	2M16115.	CAL @ 20 PPB	05/20/14 18:49	2	2M16113.	CAL @ 5 PPB	05/20/14 18:17
3	2M16114.	CAL @ 10 PPB	05/20/14 18:33	4	2M16117.	CAL @ 50 PPB	05/20/14 19:21
5	2M16118.	CAL @ 100 PPB	05/20/14 19:37	6	2M16121.	CAL @250 PPB	05/20/14 20:25
7	2M16124.	CAL @ 500 PPB	05/20/14 21:12	8	2M16112.	CAL @ 1 PPB	05/20/14 18:01
9	2M16111.	CAL @ 0.5 PPB	05/20/14 17:45				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
p-Ethyltoluene	1	0	Avg	2.3761	2.0686	2.4266	2.5084	2.4466	2.3354	1.9943	2.0140	-----	2.27	7.40	0.993	1.00	9.3		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Chlorotoluene	1	0	Avg	1.5408	1.5414	1.5271	1.6046	1.5474	1.4788	1.4439	1.4404	-----	1.52	7.48	1.00	1.00	3.7		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Propylbenzene	1	0	Avg	2.7051	2.4150	2.6489	2.7847	2.7756	2.8576	2.6242	2.2909	-----	2.64	7.34	0.998	1.00	7.4		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromobenzene	1	0	Avg	1.6973	1.7070	1.7027	1.7586	1.7347	1.7145	1.5558	1.4956	-----	1.67	7.30	0.998	1.00	5.6		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,3,5-Trimethylbenzene	1	0	Avg	2.0455	1.9169	1.8299	1.8720	1.8531	1.8762	1.6658	1.6278	-----	1.84	7.43	0.997	1.00	7.3		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Butyl methacrylate	1	0	Avg	0.8296	0.7188	0.7272	0.9459	0.9353	1.0100	0.9509	0.7851	-----	0.863	7.45	0.999	1.00	13		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
t-Butylbenzene	1	0	Avg	1.8218	1.5775	1.6553	1.9063	1.8812	1.8911	1.7221	1.4549	-----	1.74	7.65	0.998	1.00	9.5		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trimethylbenzene	1	0	Avg	2.1157	1.8168	1.9610	2.1315	2.0833	2.1187	1.9353	1.4526	-----	1.95	7.67	0.998	1.00	12		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
sec-Butylbenzene	1	0	Avg	1.9344	1.6136	1.7752	2.0376	2.0918	2.0650	1.9619	1.6292	-----	1.89	7.78	0.999	1.00	10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Isopropyltoluene	1	0	Avg	1.7661	1.5406	1.6335	1.8746	1.8586	1.8185	1.6618	1.3505	-----	1.69	7.86	0.998	1.00	11		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Butylbenzene	1	0	Avg	1.8835	1.5134	1.7409	1.9570	1.9246	1.9098	1.7823	1.4551	-----	1.77	8.13	0.999	1.00	11		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
p-Diethylbenzene	1	0	Avg	1.0145	0.8843	0.9498	1.0964	1.1004	1.1087	1.0050	0.6778	-----	0.980	8.11	0.998	1.00	15		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4,5-Tetramethylber	1	0	Qua	1.4723	0.9576	1.2261	1.6395	1.7185	1.7700	1.6806	1.0461	-----	1.44	8.61	0.999	1.00	22		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dibromo-3-Chloropr	1	0	Avg	0.1441	0.1241	0.1165	0.1400	0.1418	0.1440	0.1436	0.1163	-----	0.134	8.68	1.00	1.00	9.4	0.05	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Camphor	1	0	Qua	0.0343	0.0199	0.0263	0.0393	0.0487	0.0480	0.0476	0.0206	0.0228	0.0342	9.16	1.00	1.00	36		200.0	50.00	100.0	500.0	1000.	2500.	5000.	10.00	5.00
Hexachlorobutadiene	1	0	Avg	0.6288	0.5825	0.6372	0.6043	0.5973	0.5488	0.4803	0.7359	-----	0.602	9.31	0.995	1.00	12		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trichlorobenzene	1	0	Avg	0.7450	0.6261	0.7019	0.7444	0.7517	0.7091	0.6519	0.7562	-----	0.711	9.22	0.998	1.00	6.9	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,3-Trichlorobenzene	1	0	Avg	0.5710	0.5136	0.5721	0.5570	0.5992	0.5447	0.4940	0.5775	-----	0.554	9.56	0.997	1.00	6.3		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Naphthalene	1	0	Qua	1.0646	0.6855	0.8972	1.0721	1.2804	1.1621	1.1262	0.6989	-----	0.998	9.40	0.999	1.00	22		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 10.6
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Quantitation Report (QT Reviewed)

SampleID : CAL @ 20 PPB
Data File: 2M16115.D
Acq On : 05/20/14 18:49

Operator : WP
Sam Mult : 1 Vial# : 11
Misc : A,5ML

Qt Meth : 2M_A0520.M
Qt On : 05/21/14 09:43
Qt Upd On: 05/21/14 09:30

Data Path : G:\GcMsData\2014\GCMS_2\Data\05-20-14\
Qt Path : G:\GcMsData\2014\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.647	96	282519	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.489	117	229766	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.922	152	149903	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.208	111	104185	34.11	ug/l	0.00
Spiked Amount 30.000			Recovery = 113.70%			
39) 1,2-Dichloroethane-d4	4.436	67	57360	31.32	ug/l	0.00
Spiked Amount 30.000			Recovery = 104.40%			
66) Toluene-d8	5.616	98	294017	29.88	ug/l	0.00
Spiked Amount 30.000			Recovery = 99.60%			
76) Bromofluorobenzene	7.193	174	128649	31.03	ug/l	0.00
Spiked Amount 30.000			Recovery = 103.43%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.326	51	103018	20.4827	ug/l	83
6) Dichlorodifluoromethane	1.326	85	75183	21.9789	ug/l	91
7) Chloromethane	1.459	50	55364	21.0408	ug/l	82
8) Bromomethane	1.792	94	34178	26.2968	ug/l	92
9) Vinyl Chloride	1.525	62	45571	23.1623	ug/l	99
10) Chloroethane	1.859	64	30626	24.0761	ug/l	98
11) Trichlorofluoromethane	2.042	101	75852	31.0820	ug/l	91
12) Ethyl ether	2.275	59	32687m	14.9233	ug/l	
13) Furan	2.305	39	103405m	17.9374	ug/l	
14) 1,1,2-Trichloro-1,2,2-...	2.444	101	43546m	30.6614	ug/l	
15) Methylene Chloride	2.823	84	53109	22.2536	ug/l	97
16) Acrolein	2.378	56	38003m	164.3622	ug/l	
17) Acrylonitrile	3.034	53	20241m	25.5868	ug/l	
18) Iodomethane	2.576	142	86778	25.9853	ug/l	98
19) Acetone	2.498	43	74502	105.5706	ug/l	98
20) Carbon Disulfide	2.630	76	128255	19.8678	ug/l	100
21) t-Butyl Alcohol	2.913	59	12511	128.7865	ug/l	64
22) n-Hexane	3.262	57	37467	20.4868	ug/l	84
23) Di-isopropyl-ether	3.431	45	168633	20.5998	ug/l	94
24) 1,1-Dichloroethene	2.450	61	74324	24.0339	ug/l	99
25) Methyl Acetate	2.745	43	52713m	24.4928	ug/l	
26) Methyl-t-butyl ether	3.040	73	94641	21.9217	ug/l	82
27) 1,1-Dichloroethane	3.389	63	92255m	24.8780	ug/l	
28) trans-1,2-Dichloroethene	3.040	96	50313	25.3198	ug/l	79
29) Ethyl-t-butyl ether	3.738	59	38855	8.2828	ug/l	95
30) cis-1,2-Dichloroethene	3.864	61	97155m	27.5099	ug/l	
31) Bromochloromethane	4.039	49	47078	22.6883	ug/l	79
32) 2,2-Dichloropropane	3.864	77	65171	24.3697	ug/l	91
33) Ethyl acetate	3.913	43	52334	19.1584	ug/l	99
34) 1,4-Dioxane	5.098	88	27363	1291.0085	ug/l	96
35) 1,1-Dichloropropene	4.334	75	78349	24.2121	ug/l	97
36) Chloroform	4.093	83	107445	24.2031	ug/l	80
38) Cyclohexane	4.268	56	68305	20.1827	ug/l	98
40) 1,2-Dichloroethane	4.484	62	106965	23.5949	ug/l	95
41) 2-Butanone	3.876	43	24978	22.1863	ug/l	89
42) 1,1,1-Trichloroethane	4.226	97	98738	27.1407	ug/l	90
43) Carbon Tetrachloride	4.340	117	91731	29.9656	ug/l	99
44) Vinyl Acetate	3.425	43	148243	19.8876	ug/l	100
45) Bromodichloromethane	5.177	83	102299	24.5743	ug/l	87
46) Methylcyclohexane	4.996	83	57852	22.0751	ug/l	96
47) Dibromomethane	5.092	174	60219	27.7353	ug/l	97
48) 1,2-Dichloropropane	5.014	63	58476	21.7687	ug/l	99
49) Trichloroethene	4.870	130	67770	24.2234	ug/l	90
50) Benzene	4.472	78	222464	22.7884	ug/l	100
51) tert-Amyl methyl ether	4.533	73	83221	21.0466	ug/l	93
53) Iso-propylacetate	4.503	43	85818	20.1369	ug/l	77
54) Methyl methacrylate	5.062	41	54861	21.6193	ug/l	89
55) Dibromochloromethane	6.140	129	84477	28.1514	ug/l	98
56) 2-Chloroethylvinylether	5.345	63	30459	19.3216	ug/l	84
57) cis-1,3-Dichloropropene	5.448	75	93984	22.9621	ug/l	87
58) trans-1,3-Dichloropropene	5.779	75	83078	22.7892	ug/l	93
59) Ethyl methacrylate	5.809	41	58968	19.9768	ug/l	82
60) 1,1,2-Trichloroethane	5.893	97	55326	23.1518	ug/l	90
61) 1,2-Dibromoethane	6.224	107	61119	23.9257	ug/l	99
62) 1,3-Dichloropropane	5.995	76	99185	23.0660	ug/l	99
63) 4-Methyl-2-Pentanone	5.532	43	47993	19.4101	ug/l	88
64) 2-Hexanone	6.025	43	31108	19.3547	ug/l	88
65) Tetrachloroethene	5.989	164	64494	29.5019	ug/l	93
67) Toluene	5.658	92	145848	22.9785	ug/l	96

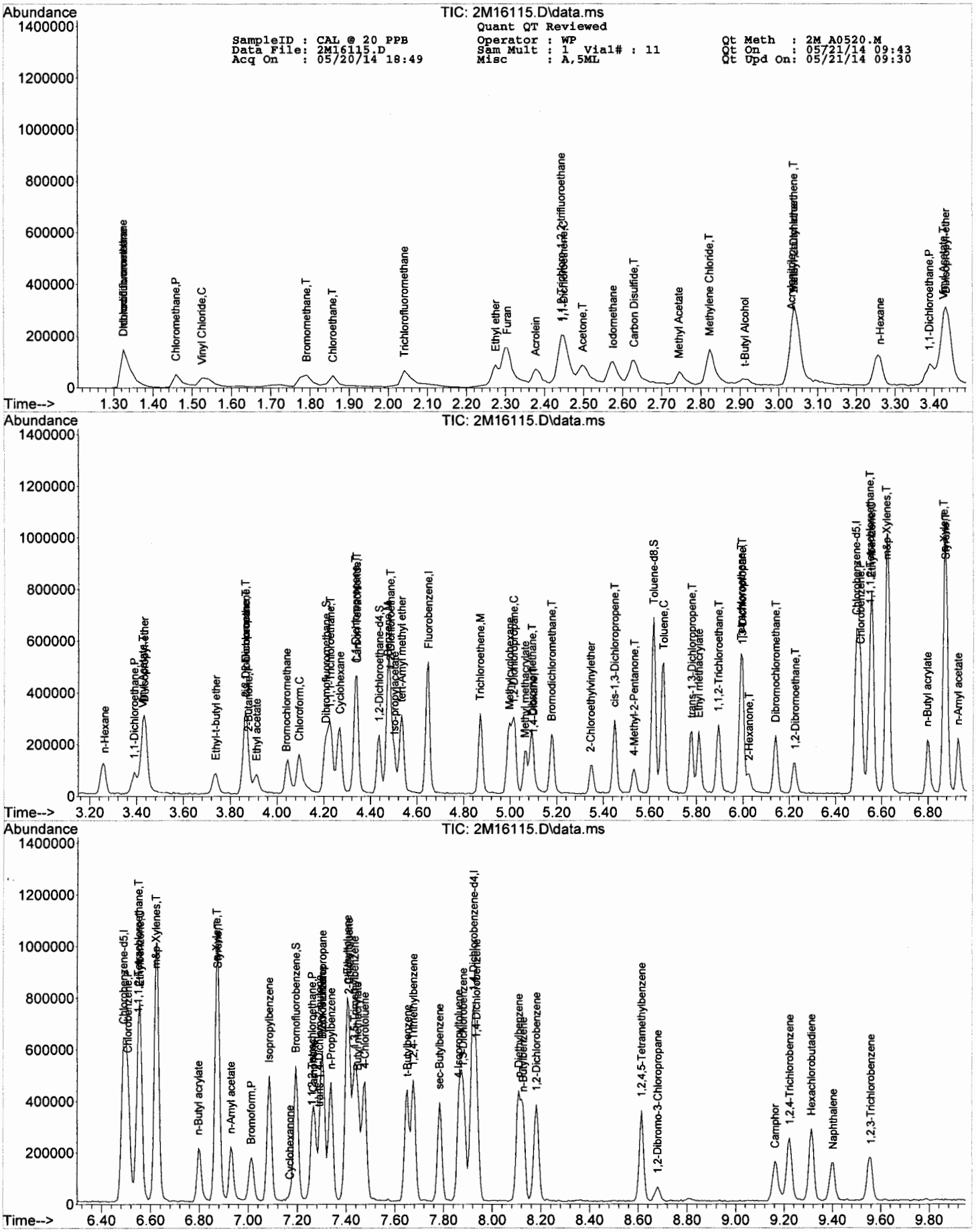
Quantitation Report (QT Reviewed)

SampleID : CAL @ 20 PPB Operator : WP Qt Meth : 2M_A0520.M
Data File: 2M16115.D Sam Mult : 1 Vial# : 11 Qt On : 05/21/14 09:43
Acq On : 05/20/14 18:49 Misc : A,5ML Qt Upd On: 05/21/14 09:30

Data Path : G:\GcMsData\2014\GCMS_2\Data\05-20-14\
Qt Path : G:\GcMsData\2014\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1,1,1,2-Tetrachloroethane	6.549	133	72315	29.6744	ug/l	79
69) Chlorobenzene	6.507	112	180280	25.0635	ug/l	99
71) n-Butyl acrylate	6.796	55	98751	16.2955	ug/l	95
72) n-Amyl acetate	6.928	43	82815	16.2177	ug/l	77
73) Bromoform	7.013	173	64671	26.3902	ug/l	97
74) Ethylbenzene	6.555	106	63456	21.9180	ug/l	91
75) 1,1,2,2-Tetrachloroethane	7.259	83	62724	22.1894	ug/l	94
77) Styrene	6.874	104	177352	22.0672	ug/l	94
78) m&p-Xylenes	6.621	106	202128	43.9041	ug/l	88
79) o-Xylene	6.868	106	103293	22.9968	ug/l	94
80) trans-1,4-Dichloro-2-b...	7.290	53	31125	18.4745	ug/l	86
81) 1,3-Dichlorobenzene	7.880	146	138701	24.5727	ug/l	88
82) 1,4-Dichlorobenzene	7.934	146	143097	24.6298	ug/l	94
83) 1,2-Dichlorobenzene	8.180	146	132127	24.8691	ug/l	89
84) Isopropylbenzene	7.085	105	235947	21.4870	ug/l	94
85) Cyclohexanone	7.169	55	7152	68.0354	ug/l	82
86) Camphene	7.266	93	56475	20.4839	ug/l	92
87) 1,2,3-Trichloropropane	7.302	75	81587	21.7700	ug/l	96
88) 2-Chlorotoluene	7.410	91	166681	24.3034	ug/l	96
89) p-Ethyltoluene	7.404	105	237462	20.8182	ug/l	82
90) 4-Chlorotoluene	7.476	91	153984	21.7762	ug/l	90
91) n-Propylbenzene	7.338	91	270344	21.2518	ug/l	94
92) Bromobenzene	7.302	77	169620	21.6708	ug/l	91
93) 1,3,5-Trimethylbenzene	7.434	105	204427	24.4590	ug/l	89
94) Butyl methacrylate	7.446	41	82914	17.2482	ug/l	88
95) t-Butylbenzene	7.651	119	182067	23.7437	ug/l	85
96) 1,2,4-Trimethylbenzene	7.675	105	211433	22.4324	ug/l	91
97) sec-Butylbenzene	7.783	105	193315	21.6864	ug/l	94
98) 4-Isopropyltoluene	7.861	119	176502	23.9030	ug/l	93
99) n-Butylbenzene	8.126	91	188230	22.6057	ug/l	90
100) p-Diethylbenzene	8.108	119	101390	20.8415	ug/l	88
101) 1,2,4,5-Tetramethylben...	8.614	119	147136	20.4897	ug/l	93
102) 1,2-Dibromo-3-Chloropr...	8.680	157	14406	29.0119	ug/l	61
103) Camphor	9.162	95	34335	183.6611	ug/l	86
104) Hexachlorobutadiene	9.312	225	62845	34.3949	ug/l	98
105) 1,2,4-Trichlorobenzene	9.222	180	74455	26.7029	ug/l	97
106) 1,2,3-Trichlorobenzene	9.559	180	57067m	26.0414	ug/l	
107) Naphthalene	9.402	128	106391	22.6391	ug/l	100

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


TIC: 2M16115.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 20 PPB
Data File: 2M16115.D
Acq On : 05/20/14 18:49
Operator : WP
Sam Mult : 1 Vial# : 11
Misc : A,5ML
Qt Meth : 2M_A0520.M
Qt On : 05/21/14 09:43
Qt Upd On: 05/21/14 09:30
Abundance
Time-->
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
1,1-Dichloroethane,P
n-Hexane
1,1-Dichloroethane,P
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,C
Cyclohexane
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Trichloroethene,M
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
n-Propylbenzene
t-Butylbenzene
sec-Butylbenzene
1,4-Dichlorobenzene-d4,I
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene

Quantitation Report (QT Reviewed)

SampleID : CAL @ 5 PPB
Data File: 2M16113.D
Acq On : 05/20/14 18:17

Operator : WP
Sam Mult : 1 Vial# : 9
Misc : A,5ML

Qt Meth : 2M_A0520.M
Qt On : 05/21/14 09:47
Qt Upd On: 05/21/14 09:30

Data Path : G:\GcMsData\2014\GCMS_2\Data\05-20-14\
Qt Path : G:\GcMsData\2014\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.634	96	269365	30.00	ug/l	-0.01
52) Chlorobenzene-d5	6.476	117	220640	30.00	ug/l	-0.01
70) 1,4-Dichlorobenzene-d4	7.903	152	138197	30.00	ug/l	-0.02
System Monitoring Compounds						
37) Dibromofluoromethane	4.195	111	103576	35.57	ug/l	-0.01
Spiked Amount 30.000			Recovery = 118.57%			
39) 1,2-Dichloroethane-d4	4.424	67	56367	32.28	ug/l	-0.01
Spiked Amount 30.000			Recovery = 107.60%			
66) Toluene-d8	5.603	98	267126	28.27	ug/l	-0.01
Spiked Amount 30.000			Recovery = 94.23%			
76) Bromofluorobenzene	7.181	174	116611	30.50	ug/l	-0.01
Spiked Amount 30.000			Recovery = 101.67%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.325	51	26523	5.5310	ug/l	99
6) Dichlorodifluoromethane	1.325	85	15799	4.8442	ug/l	83
7) Chloromethane	1.458	50	13634	5.4346	ug/l	71
8) Bromomethane	1.775	94	8600m	6.9400	ug/l	
9) Vinyl Chloride	1.541	62	10596	5.6486	ug/l	92
10) Chloroethane	1.858	64	7431	6.1270	ug/l	69
11) Trichlorofluoromethane	2.041	101	16818	7.2281	ug/l	93
12) Ethyl ether	2.275	59	6762m	3.2380	ug/l	
13) Furan	2.299	39	24870m	4.5248	ug/l	
14) 1,1,2-Trichloro-1,2,2-...	2.443	101	9421	6.9574	ug/l	90
15) Methylene Chloride	2.822	84	13508	5.9365	ug/l	100
16) Acrolein	2.377	56	5599	25.3981	ug/l	57
17) Acrylonitrile	3.027	53	3926m	5.2052	ug/l	
18) Iodomethane	2.570	142	19636	6.1671	ug/l	85
19) Acetone	2.497	43	14722	21.8801	ug/l	93
20) Carbon Disulfide	2.624	76	28793	4.6781	ug/l	100
21) t-Butyl Alcohol	2.913	59	2483	26.8078	ug/l	1
22) n-Hexane	3.256	57	6129	3.5150	ug/l	88
23) Di-isopropyl-ether	3.424	45	33533	4.2963	ug/l	99
24) 1,1-Dichloroethene	2.449	61	14791	5.0165	ug/l	89
25) Methyl Acetate	2.744	43	10958	5.3402	ug/l	100
26) Methyl-t-butyl ether	3.039	73	18802	4.5678	ug/l	85
27) 1,1-Dichloroethane	3.382	63	21641m	6.1208	ug/l	
28) trans-1,2-Dichloroethene	3.045	96	11353	5.9923	ug/l	76
29) Ethyl-t-butyl ether	3.731	59	7895	1.7652	ug/l	90
30) cis-1,2-Dichloroethene	3.858	61	23895m	7.0964	ug/l	
31) Bromochloromethane	4.038	49	11577	5.8518	ug/l	84
32) 2,2-Dichloropropane	3.864	77	13652	5.3543	ug/l	91
33) Ethyl acetate	3.906	43	10589	4.0657	ug/l	99
34) 1,4-Dioxane	5.080	88	5605m	277.3623	ug/l	
35) 1,1-Dichloropropene	4.327	75	13711	4.4440	ug/l	93
36) Chloroform	4.086	83	25345	5.9880	ug/l	82
38) Cyclohexane	4.255	56	11897	3.6870	ug/l	96
40) 1,2-Dichloroethane	4.472	62	24133	5.5833	ug/l	97
41) 2-Butanone	3.876	43	4384	4.0842	ug/l	85
42) 1,1,1-Trichloroethane	4.213	97	21382	6.1644	ug/l	100
43) Carbon Tetrachloride	4.327	117	18171	6.2258	ug/l	95
44) Vinyl Acetate	3.424	43	30051	4.2284	ug/l	100
45) Bromodichloromethane	5.164	83	20288	5.1116	ug/l	86
46) Methylcyclohexane	4.983	83	9530	3.8140	ug/l	97
47) Dibromomethane	5.080	174	14072	6.7977	ug/l	92
48) 1,2-Dichloropropane	5.001	63	13923	5.4362	ug/l	85
49) Trichloroethene	4.863	130	16096	6.0342	ug/l	75
50) Benzene	4.466	78	48067	5.1643	ug/l	100
51) tert-Amyl methyl ether	4.526	73	18417	4.8851	ug/l	87
53) Iso-propylacetate	4.490	43	15657	3.8258	ug/l	65
54) Methyl methacrylate	5.056	41	10664	4.3762	ug/l	83
55) Dibromochloromethane	6.127	129	18216	6.3214	ug/l	99
56) 2-Chloroethylvinylether	5.333	63	5675	3.7488	ug/l	76
57) cis-1,3-Dichloropropene	5.435	75	18596	4.7313	ug/l	100
58) trans-1,3-Dichloropropene	5.766	75	15072	4.3054	ug/l	84
59) Ethyl methacrylate	5.796	41	10279	3.6263	ug/l	85
60) 1,1,2-Trichloroethane	5.880	97	12204	5.3181	ug/l	86
61) 1,2-Dibromoethane	6.205	107	12842	5.2351	ug/l	95
62) 1,3-Dichloropropane	5.989	76	21615	5.2346	ug/l	89
63) 4-Methyl-2-Pentanone	5.519	43	7863m	3.3116	ug/l	
64) 2-Hexanone	6.013	43	6319	4.0942	ug/l	53
65) Tetrachloroethene	5.977	164	14113	6.7228	ug/l	87
67) Toluene	5.646	92	34466	5.6548	ug/l	94

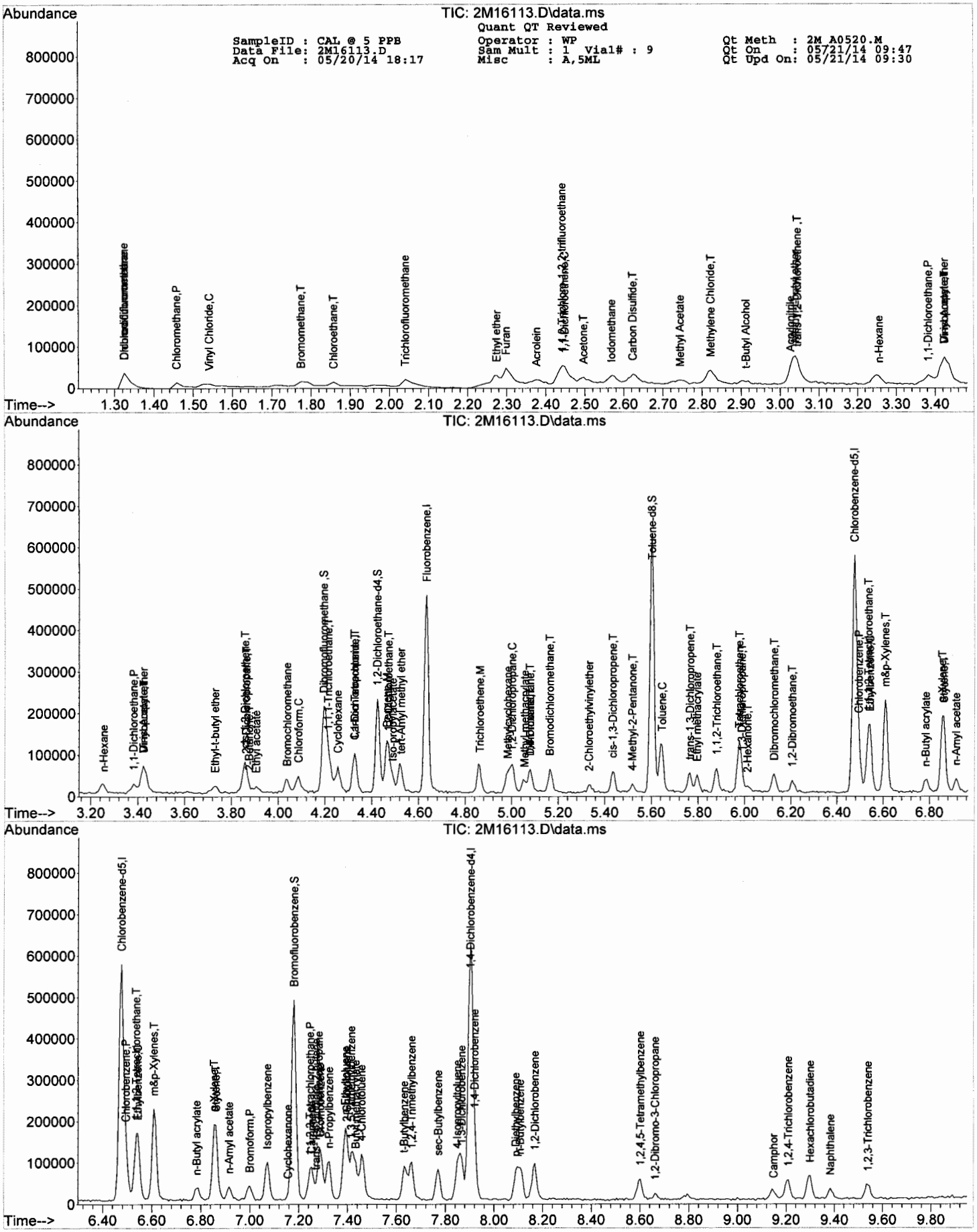
Quantitation Report (QT Reviewed)

SampleID : CAL @ 5 PPB Operator : WP Qt Meth : 2M_A0520.M
Data File: 2M16113.D Sam Mult : 1 Vial# : 9 Qt On : 05/21/14 09:47
Acq On : 05/20/14 18:17 Misc : A,5ML Qt Upd On: 05/21/14 09:30

Data Path : G:\GcMsData\2014\GCMS_2\Data\05-20-14\
Qt Path : G:\GcMsData\2014\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.536	133	15570	6.6534	ug/l	91
69)	Chlorobenzene	6.494	112	40854	5.9147	ug/l	96
71)	n-Butyl acrylate	6.783	55	17041	3.0502	ug/l	94
72)	n-Amyl acetate	6.916	43	11835m	2.5140	ug/l	
73)	Bromoform	7.000	173	13436	5.9472	ug/l	96
74)	Ethylbenzene	6.542	106	13256	4.9665	ug/l	87
75)	1,1,2,2-Tetrachloroethane	7.247	83	13838	5.3100	ug/l	83
77)	Styrene	6.861	104	36456	4.9203	ug/l	99
78)	m&p-Xylenes	6.609	106	42819	10.0885	ug/l	86
79)	o-Xylene	6.855	106	20841	5.0330	ug/l	95
80)	trans-1,4-Dichloro-2-b...	7.271	53	7167m	4.6144	ug/l	
81)	1,3-Dichlorobenzene	7.867	146	31426	6.0391	ug/l	86
82)	1,4-Dichlorobenzene	7.921	146	31606	5.9008	ug/l	97
83)	1,2-Dichlorobenzene	8.168	146	29235	5.9688	ug/l	92
84)	Isopropylbenzene	7.072	105	44515	4.3972	ug/l	89
85)	Cyclohexanone	7.156	55	1975m	20.3792	ug/l	
86)	Camphene	7.253	93	10313	4.0575	ug/l	87
87)	1,2,3-Trichloropropane	7.283	75	16623	4.8112	ug/l	97
88)	2-Chlorotoluene	7.397	91	33720	5.3331	ug/l	98
89)	p-Ethyltoluene	7.391	105	47646	4.5309	ug/l	88
90)	4-Chlorotoluene	7.457	91	35504	5.4462	ug/l	95
91)	n-Propylbenzene	7.325	91	55625	4.7431	ug/l	95
92)	Bromobenzene	7.289	77	39319	5.4489	ug/l	94
93)	1,3,5-Trimethylbenzene	7.415	105	44152	5.7301	ug/l	91
94)	Butyl methacrylate	7.433	41	16557	3.7360	ug/l	86
95)	t-Butylbenzene	7.632	119	36336	5.1400	ug/l	81
96)	1,2,4-Trimethylbenzene	7.662	105	41847	4.8159	ug/l	91
97)	sec-Butylbenzene	7.770	105	37167	4.5226	ug/l	94
98)	4-Isopropyltoluene	7.849	119	35485	5.2126	ug/l	93
99)	n-Butylbenzene	8.108	91	34859	4.5411	ug/l	92
100)	p-Diethylbenzene	8.089	119	20369	4.5417	ug/l	87
101)	1,2,4,5-Tetramethylben...	8.601	119	22057	3.3318	ug/l	82
102)	1,2-Dibromo-3-Chloropr...	8.661	157	2860	6.2476	ug/l	77
103)	Camphor	9.149	95	4596	26.6669	ug/l	85
104)	Hexachlorobutadiene	9.299	225	13417	7.9651	ug/l	97
105)	1,2,4-Trichlorobenzene	9.209	180	14421	5.6101	ug/l	94
106)	1,2,3-Trichlorobenzene	9.540	180	11830m	5.8557	ug/l	
107)	Naphthalene	9.384	128	15791m	3.6448	ug/l	

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


Abundance
TIC: 2M16113.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 5 PPB
Data File: 2M16113.D
Acq On : 05/20/14 18:17
Operator : WP
Sam Mult : 1 Vial# : 9
Misc : A,5ML
Qt Meth : 2M_A0520.M
Qt On : 05/21/14 09:47
Qt Upd On: 05/21/14 09:30
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
1,1-Dichloroethane,P
Time-->

Abundance
TIC: 2M16113.D\data.ms
n-Hexane
1,1-Dichloroethane,P
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,C
Cyclohexane
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Chlorobenzene,P
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Time-->

Abundance
TIC: 2M16113.D\data.ms
Chlorobenzene-d5,I
Chlorobenzene,P
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
n-Propylbenzene
t-Butylbenzene
1,2,4-Trimethylbenzene
sec-Butylbenzene
1,4-Dichlorobenzene-d4,I
1,4-Dichlorobenzene
n-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @ 10 PPB
Data File: 2M16114.D
Acq On : 05/20/14 18:33

Operator : WP
Sam Mult : 1 Vial# : 10
Misc : A,5ML

Qt Meth : 2M_A0520.M
Qt On : 05/21/14 09:45
Qt Upd On: 05/21/14 09:30

Data Path : G:\GcMsData\2014\GCMS_2\Data\05-20-14\
Qt Path : G:\GcMsData\2014\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.635	96	278569	30.00	ug/l	-0.01
52) Chlorobenzene-d5	6.477	117	233318	30.00	ug/l	-0.01
70) 1,4-Dichlorobenzene-d4	7.903	152	149692	30.00	ug/l	-0.02
System Monitoring Compounds						
37) Dibromofluoromethane	4.195	111	105094	34.90	ug/l	-0.01
Spiked Amount 30.000			Recovery = 116.33%			
39) 1,2-Dichloroethane-d4	4.424	67	59657	33.04	ug/l	-0.01
Spiked Amount 30.000			Recovery = 110.13%			
66) Toluene-d8	5.604	98	289173	28.94	ug/l	-0.01
Spiked Amount 30.000			Recovery = 96.47%			
76) Bromofluorobenzene	7.181	174	126052	30.44	ug/l	-0.01
Spiked Amount 30.000			Recovery = 101.47%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.325	51	57714	11.6378	ug/l	95
6) Dichlorodifluoromethane	1.325	85	36671	10.8724	ug/l	92
7) Chloromethane	1.458	50	29092	11.2131	ug/l	73
8) Bromomethane	1.791	94	20232	15.7874	ug/l	91
9) Vinyl Chloride	1.525	62	24459	12.6080	ug/l	89
10) Chloroethane	1.858	64	14739	11.7511	ug/l	83
11) Trichlorofluoromethane	2.041	101	38677	16.0735	ug/l	93
12) Ethyl ether	2.275	59	17764m	8.2252	ug/l	
13) Furan	2.299	39	53694m	9.4462	ug/l	
14) 1,1,2-Trichloro-1,2,2-...	2.438	101	22553	16.1051	ug/l	98
15) Methylene Chloride	2.823	84	27630	11.7416	ug/l	98
16) Acrolein	2.377	56	17283m	75.8085	ug/l	
17) Acrylonitrile	3.027	53	8986m	11.5204	ug/l	
18) Iodomethane	2.570	142	41881	12.7189	ug/l	98
19) Acetone	2.498	43	37535m	53.9419	ug/l	
20) Carbon Disulfide	2.624	76	63012	9.8995	ug/l	100
21) t-Butyl Alcohol	2.913	59	4790	50.0067	ug/l	91
22) n-Hexane	3.256	57	17194	9.5349	ug/l	83
23) Di-isopropyl-ether	3.425	45	77371	9.5855	ug/l	94
24) 1,1-Dichloroethene	2.450	61	34774	11.4042	ug/l	84
25) Methyl Acetate	2.745	43	24999	11.7804	ug/l	100
26) Methyl-t-butyl ether	3.040	73	43814	10.2926	ug/l	82
27) 1,1-Dichloroethane	3.383	63	43370	11.8612	ug/l	99
28) trans-1,2-Dichloroethene	3.040	96	23611m	12.0506	ug/l	
29) Ethyl-t-butyl ether	3.726	59	17070m	3.6905	ug/l	
30) cis-1,2-Dichloroethene	3.858	61	48513	13.9315	ug/l	95
31) Bromochloromethane	4.033	49	23360	11.4175	ug/l	92
32) 2,2-Dichloropropane	3.858	77	30021	11.3851	ug/l	96
33) Ethyl acetate	3.906	43	22345	8.2961	ug/l	99
34) 1,4-Dioxane	5.080	88	12381	592.4286	ug/l	87
35) 1,1-Dichloropropene	4.328	75	36056	11.3003	ug/l	98
36) Chloroform	4.081	83	52669	12.0325	ug/l	79
38) Cyclohexane	4.255	56	33173	9.9409	ug/l	94
40) 1,2-Dichloroethane	4.472	62	53551	11.9800	ug/l	99
41) 2-Butanone	3.870	43	11763	10.5965	ug/l	99
42) 1,1,1-Trichloroethane	4.219	97	47508	13.2440	ug/l	99
43) Carbon Tetrachloride	4.328	117	43076	14.2711	ug/l	97
44) Vinyl Acetate	3.419	43	66083	8.9911	ug/l	100
45) Bromodichloromethane	5.164	83	50059	12.1957	ug/l	91
46) Methylcyclohexane	4.984	83	25642	9.9232	ug/l	94
47) Dibromomethane	5.080	174	33196	15.5060	ug/l	83
48) 1,2-Dichloropropane	5.002	63	29918	11.2954	ug/l	94
49) Trichloroethene	4.857	130	34267	12.4219	ug/l	92
50) Benzene	4.466	78	109911	11.4186	ug/l	100
51) tert-Amyl methyl ether	4.520	73	41289	10.5900	ug/l	93
53) Iso-propylacetate	4.490	43	37114	8.5761	ug/l	66
54) Methyl methacrylate	5.050	41	24545	9.5253	ug/l	77
55) Dibromochloromethane	6.128	129	35524	11.6579	ug/l	79
56) 2-Chloroethylvinylether	5.333	63	13543	8.4602	ug/l	88
57) cis-1,3-Dichloropropene	5.435	75	41838	10.0662	ug/l	99
58) trans-1,3-Dichloropropene	5.760	75	39342	10.6277	ug/l	94
59) Ethyl methacrylate	5.797	41	24570	8.1969	ug/l	87
60) 1,1,2-Trichloroethane	5.881	97	27070	11.1553	ug/l	81
61) 1,2-Dibromoethane	6.206	107	28545	11.0042	ug/l	87
62) 1,3-Dichloropropane	5.983	76	47385	10.8519	ug/l	93
63) 4-Methyl-2-Pentanone	5.520	43	21944	8.7398	ug/l	98
64) 2-Hexanone	6.013	43	14937	9.1520	ug/l	93
65) Tetrachloroethene	5.977	164	30988	13.9592	ug/l	94
67) Toluene	5.646	92	72384	11.2306	ug/l	94

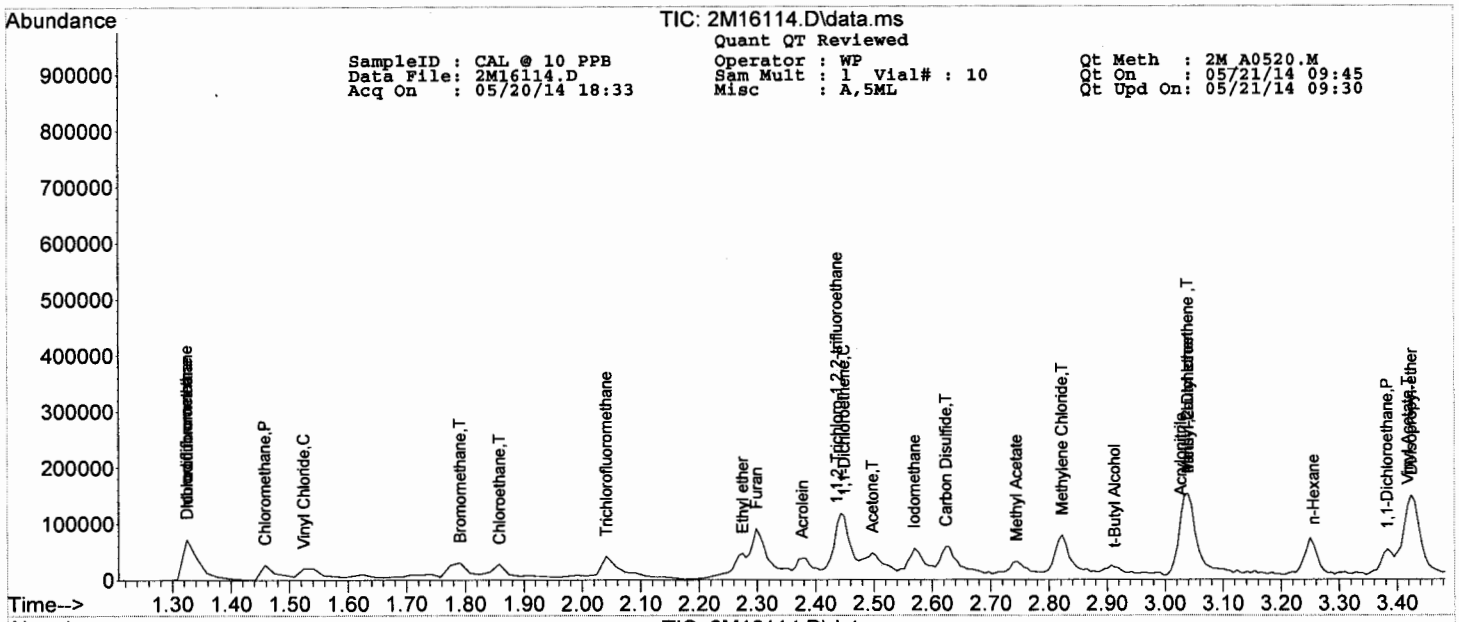
Quantitation Report (QT Reviewed)

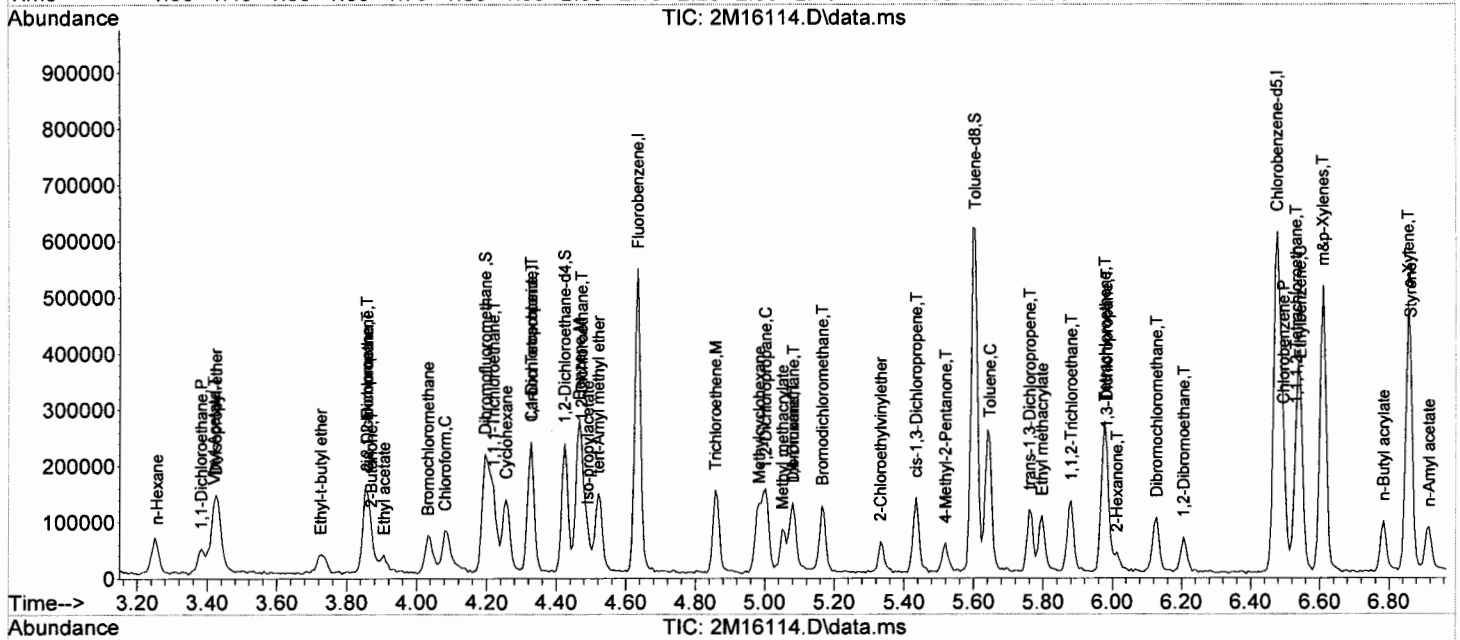
SampleID : CAL @ 10 PPB Operator : WP Qt Meth : 2M_A0520.M
Data File: 2M16114.D Sam Mult : 1 Vial# : 10 Qt On : 05/21/14 09:45
Acq On : 05/20/14 18:33 Misc : A,5ML Qt Upd On: 05/21/14 09:30

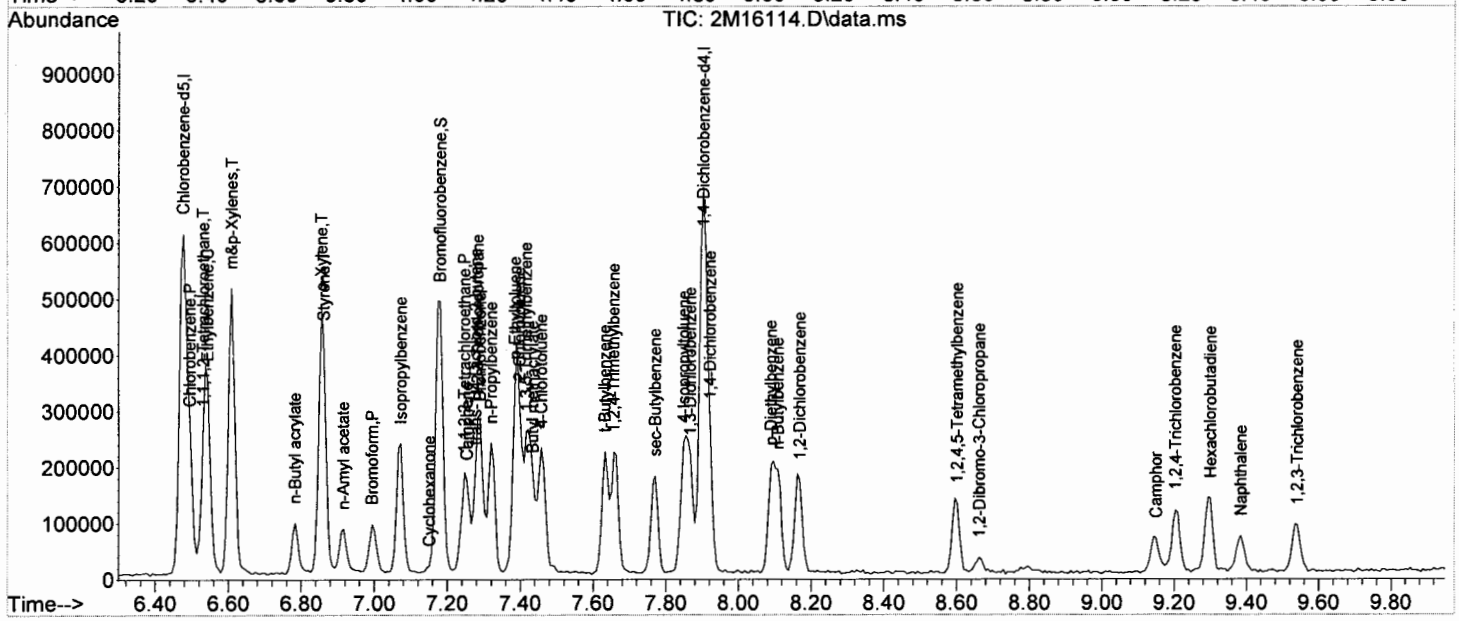
Data Path : G:\GcMsData\2014\GCMS_2\Data\05-20-14\
Qt Path : G:\GcMsData\2014\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1,1,1,2-Tetrachloroethane	6.531	133	34324	13.8704	ug/l	85
69) Chlorobenzene	6.495	112	83411	11.4197	ug/l	91
71) n-Butyl acrylate	6.784	55	42224	6.9774	ug/l	99
72) n-Amyl acetate	6.916	43	33192	6.5092	ug/l	77
73) Bromoform	6.994	173	30512	12.4685	ug/l	94
74) Ethylbenzene	6.543	106	30624	10.5926	ug/l	92
75) 1,1,2,2-Tetrachloroethane	7.247	83	29594	10.4840	ug/l	94
77) Styrene	6.862	104	85991	10.7146	ug/l	100
78) m&p-Xylenes	6.609	106	93498	20.3373	ug/l	92
79) o-Xylene	6.856	106	48672	10.8514	ug/l	83
80) trans-1,4-Dichloro-2-b...	7.277	53	17960m	10.6753	ug/l	
81) 1,3-Dichlorobenzene	7.867	146	65899	11.6913	ug/l	90
82) 1,4-Dichlorobenzene	7.921	146	70282	12.1140	ug/l	95
83) 1,2-Dichlorobenzene	8.168	146	62223	11.7282	ug/l	90
84) Isopropylbenzene	7.073	105	112772	10.2843	ug/l	91
85) Cyclohexanone	7.151	55	4358	41.5151	ug/l	81
86) Camphene	7.253	93	24986	9.0754	ug/l	98
87) 1,2,3-Trichloropropane	7.283	75	39492	10.5526	ug/l	96
88) 2-Chlorotoluene	7.398	91	77958	11.3829	ug/l	96
89) p-Ethyltoluene	7.386	105	121085	10.6304	ug/l	81
90) 4-Chlorotoluene	7.458	91	76200	10.7913	ug/l	91
91) n-Propylbenzene	7.319	91	132173	10.4048	ug/l	96
92) Bromobenzene	7.289	77	84961	10.8700	ug/l	89
93) 1,3,5-Trimethylbenzene	7.416	105	91308	10.9401	ug/l	88
94) Butyl methacrylate	7.434	41	36289	7.5597	ug/l	88
95) t-Butylbenzene	7.633	119	82599	10.7871	ug/l	87
96) 1,2,4-Trimethylbenzene	7.657	105	97851	10.3963	ug/l	89
97) sec-Butylbenzene	7.771	105	88581	9.9512	ug/l	95
98) 4-Isopropyltoluene	7.849	119	81508	11.0539	ug/l	91
99) n-Butylbenzene	8.108	91	86868	10.4472	ug/l	90
100) p-Diethylbenzene	8.090	119	47393	9.7557	ug/l	85
101) 1,2,4,5-Tetramethylben...	8.602	119	61183	8.5322	ug/l	87
102) 1,2-Dibromo-3-Chloropr...	8.662	157	5815	11.7272	ug/l	79
103) Camphor	9.149	95	13148	70.4290	ug/l	99
104) Hexachlorobutadiene	9.300	225	31797	17.4270	ug/l	99
105) 1,2,4-Trichlorobenzene	9.204	180	35025	12.5792	ug/l	94
106) 1,2,3-Trichlorobenzene	9.541	180	28547m	13.0452	ug/l	
107) Naphthalene	9.384	128	44771	9.5403	ug/l	100

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


Abundance
TIC: 2M16114.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 10 PPB
Data File: 2M16114.D
Acq On : 05/20/14 18:33
Operator : WP
Sam Mult : 1 Vial# : 10
Misc : A,5ML
Qt Meth : 2M_A0520.M
Qt On : 05/21/14 09:45
Qt Upd On: 05/21/14 09:30
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
1,1-Dichloroethane,P
Time-->


Abundance
TIC: 2M16114.D\data.ms
n-Hexane
1,1-Dichloroethane,P
Ethyl-t-butyl ether
Ethyl acetate
Bromochloromethane
Chloroform,C
Cyclohexane
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
Ethyl methacrylate
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Chlorobenzene,P
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Time-->


Abundance
TIC: 2M16114.D\data.ms
Chlorobenzene-d5,I
Chlorobenzene,P
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
n-Propylbenzene
1,4-Dichlorobenzene-d4,I
1,4-Dichlorobenzene
1,2-Dichlorobenzene
sec-Butylbenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @ 50 PPB
Data File: 2M16117.D
Acq On : 05/20/14 19:21

Operator : WP
Sam Mult : 1 Vial# : 13
Misc : A,5ML

Qt Meth : 2M_A0520.M
Qt On : 05/21/14 09:40
Qt Upd On: 05/21/14 09:30

Data Path : G:\GcMsData\2014\GCMS_2\Data\05-20-14\
Qt Path : G:\GcMsData\2014\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.635	96	289274	30.00	ug/l	-0.01
52) Chlorobenzene-d5	6.477	117	244421	30.00	ug/l	-0.01
70) 1,4-Dichlorobenzene-d4	7.904	152	156555	30.00	ug/l	-0.02
System Monitoring Compounds						
37) Dibromofluoromethane	4.196	111	106356	34.01	ug/l	-0.01
Spiked Amount 30.000			Recovery = 113.37%			
39) 1,2-Dichloroethane-d4	4.425	67	57133	30.47	ug/l	-0.01
Spiked Amount 30.000			Recovery = 101.57%			
66) Toluene-d8	5.598	98	297371	28.41	ug/l	-0.02
Spiked Amount 30.000			Recovery = 94.70%			
76) Bromofluorobenzene	7.181	174	130743	30.19	ug/l	-0.01
Spiked Amount 30.000			Recovery = 100.63%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.326	51	301291	58.5057	ug/l	98
6) Dichlorodifluoromethane	1.326	85	184589	52.7025	ug/l	91
7) Chloromethane	1.459	50	139988	51.9595	ug/l	81
8) Bromomethane	1.776	94	92083	69.1948	ug/l	78
9) Vinyl Chloride	1.526	62	125776	62.4350	ug/l	97
10) Chloroethane	1.859	64	75992	58.3448	ug/l	89
11) Trichlorofluoromethane	2.042	101	194596	77.8779	ug/l	89
12) Ethyl ether	2.269	59	115237	51.3830	ug/l	76
13) Furan	2.300	39	285272m	48.3299	ug/l	
14) 1,1,2-Trichloro-1,2,2-...	2.444	101	104757	72.0385	ug/l	89
15) Methylene Chloride	2.817	84	144393	59.0904	ug/l	93
16) Acrolein	2.378	56	106423	449.5291	ug/l	96
17) Acrylonitrile	3.022	53	48608	60.0110	ug/l	87
18) Iodomethane	2.570	142	229051	66.9868	ug/l	96
19) Acetone	2.492	43	195626	270.7322	ug/l	82
20) Carbon Disulfide	2.625	76	347085	52.5110	ug/l	100
21) t-Butyl Alcohol	2.908	59	32532	327.0598	ug/l	84
22) n-Hexane	3.251	57	107203	57.2493	ug/l	85
23) Di-isopropyl-ether	3.425	45	456569	54.4709	ug/l	98
24) 1,1-Dichloroethene	2.444	61	195780	61.8304	ug/l	97
25) Methyl Acetate	2.745	43	134992	61.2586	ug/l	100
26) Methyl-t-butyl ether	3.034	73	250856	56.7491	ug/l	82
27) 1,1-Dichloroethane	3.383	63	247819	65.2677	ug/l	91
28) trans-1,2-Dichloroethene	3.040	96	132221	64.9857	ug/l	88
29) Ethyl-t-butyl ether	3.726	59	106060	22.0812	ug/l	97
30) cis-1,2-Dichloroethene	3.859	61	254536m	70.3902	ug/l	
31) Bromochloromethane	4.033	49	119289	56.1466	ug/l	91
32) 2,2-Dichloropropane	3.853	77	168963	61.7058	ug/l	99
33) Ethyl acetate	3.901	43	142082	50.7988	ug/l	98
34) 1,4-Dioxane	5.081	88	70841	3264.2869	ug/l	91
35) 1,1-Dichloropropene	4.322	75	203132	61.3077	ug/l	98
36) Chloroform	4.087	83	279329	61.4525	ug/l	91
38) Cyclohexane	4.256	56	180114	51.9772	ug/l	97
40) 1,2-Dichloroethane	4.473	62	276651	59.6000	ug/l	100
41) 2-Butanone	3.865	43	63506	55.0910	ug/l	91
42) 1,1,1-Trichloroethane	4.220	97	256396	68.8314	ug/l	99
43) Carbon Tetrachloride	4.328	117	239227	76.3230	ug/l	94
44) Vinyl Acetate	3.419	43	409547	53.6599	ug/l	100
45) Bromodichloromethane	5.165	83	267121	62.6694	ug/l	95
46) Methylcyclohexane	4.984	83	155658	58.0088	ug/l	95
47) Dibromomethane	5.081	174	158606	71.3439	ug/l	98
48) 1,2-Dichloropropane	5.002	63	154339	56.1136	ug/l	86
49) Trichloroethene	4.858	130	183776	64.1543	ug/l	88
50) Benzene	4.467	78	578821	57.9079	ug/l	100
51) tert-Amyl methyl ether	4.521	73	226503	55.9450	ug/l	91
53) Iso-propylacetate	4.485	43	249837	55.1085	ug/l	77
54) Methyl methacrylate	5.051	41	146295	54.1944	ug/l	83
55) Dibromochloromethane	6.128	129	218288	68.3816	ug/l	99
56) 2-Chloroethylvinylether	5.333	63	87531	52.1961	ug/l	89
57) cis-1,3-Dichloropropene	5.436	75	254202	58.3826	ug/l	96
58) trans-1,3-Dichloropropene	5.761	75	242028	62.4104	ug/l	99
59) Ethyl methacrylate	5.797	41	162482	51.7442	ug/l	89
60) 1,1,2-Trichloroethane	5.881	97	143895	56.6043	ug/l	89
61) 1,2-Dibromoethane	6.206	107	160128	58.9256	ug/l	90
62) 1,3-Dichloropropane	5.984	76	256337	56.0382	ug/l	97
63) 4-Methyl-2-Pentanone	5.520	43	137957	52.4494	ug/l	80
64) 2-Hexanone	6.008	43	98864	57.8228	ug/l	91
65) Tetrachloroethene	5.972	164	165060	70.9773	ug/l	98
67) Toluene	5.640	92	392832	58.1803	ug/l	98

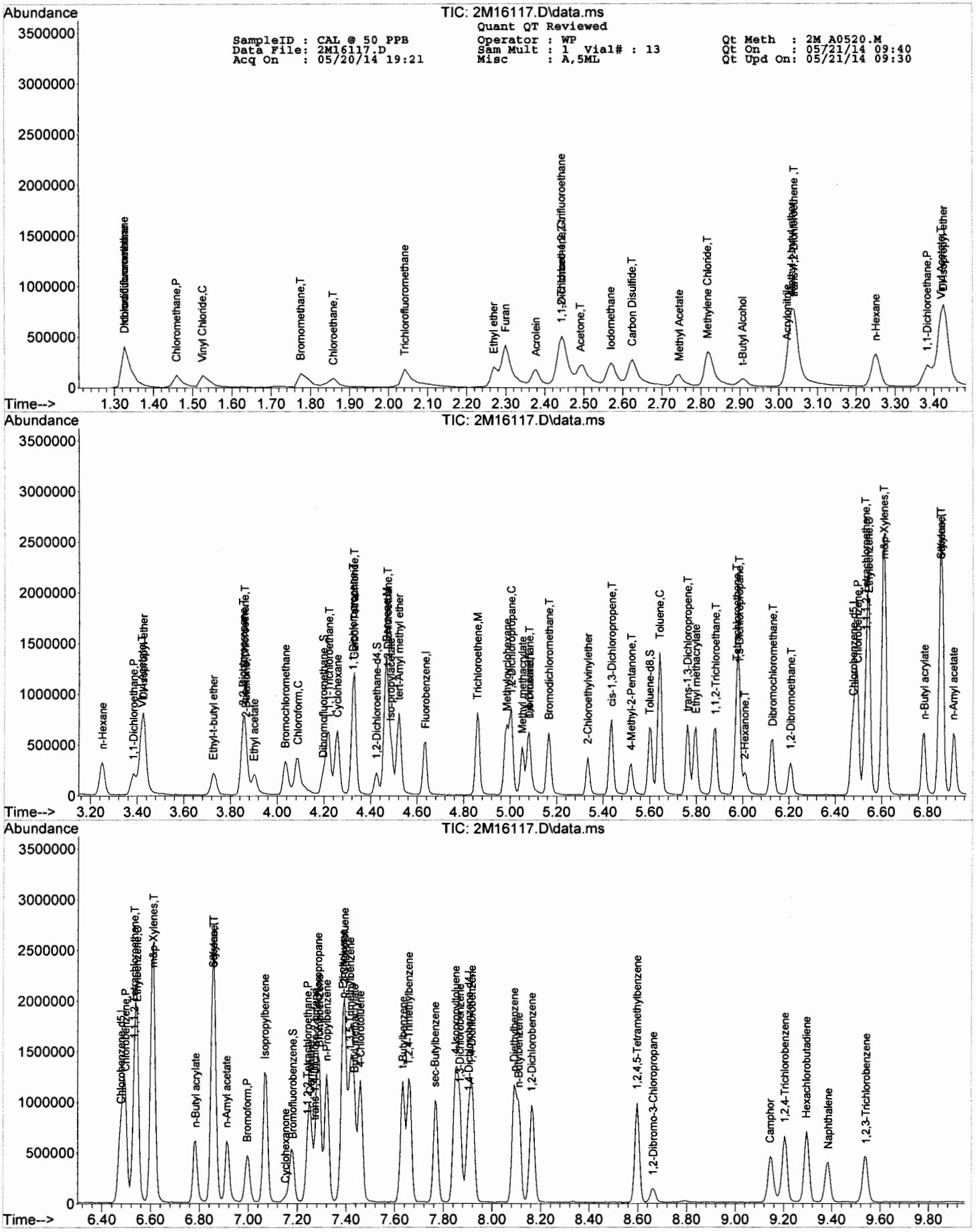
Quantitation Report (QT Reviewed)

SampleID : CAL @ 50 PPB Operator : WP Qt Meth : 2M_A0520.M
Data File: 2M16117.D Sam Mult : 1 Vial# : 13 Qt On : 05/21/14 09:40
Acq On : 05/20/14 19:21 Misc : A,5ML Qt Upd On: 05/21/14 09:30

Data Path : G:\GcMsData\2014\GCMS_2\Data\05-20-14\
Qt Path : G:\GcMsData\2014\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.531	133	178051	68.6823	ug/l	87
69)	Chlorobenzene	6.495	112	466375	60.9505	ug/l	97
71)	n-Butyl acrylate	6.784	55	294549	46.5400	ug/l	96
72)	n-Amyl acetate	6.911	43	245436	46.0217	ug/l	77
73)	Bromoform	6.995	173	172325	67.3324	ug/l	90
74)	Ethylbenzene	6.543	106	177856	58.8222	ug/l	87
75)	1,1,2,2-Tetrachloroethane	7.242	83	160830	54.4782	ug/l	96
77)	Styrene	6.856	104	469928	55.9869	ug/l	97
78)	m&p-Xylenes	6.610	106	533292	110.9142	ug/l	91
79)	o-Xylene	6.856	106	271022	57.7756	ug/l	91
80)	trans-1,4-Dichloro-2-b...	7.272	53	88283	50.1746	ug/l	86
81)	1,3-Dichlorobenzene	7.868	146	349436	59.2768	ug/l	89
82)	1,4-Dichlorobenzene	7.916	146	363013	59.8269	ug/l	94
83)	1,2-Dichlorobenzene	8.163	146	339222	61.1359	ug/l	88
84)	Isopropylbenzene	7.067	105	649200	56.6086	ug/l	95
85)	Cyclohexanone	7.151	55	19456	177.2166	ug/l	99
86)	Camphene	7.254	93	144577	50.2110	ug/l	100
87)	1,2,3-Trichloropropane	7.284	75	211399	54.0111	ug/l	95
88)	2-Chlorotoluene	7.392	91	395697	55.2442	ug/l	97
89)	p-Ethyltoluene	7.386	105	654517	54.9431	ug/l	86
90)	4-Chlorotoluene	7.458	91	418699	56.6960	ug/l	94
91)	n-Propylbenzene	7.320	91	726614	54.6923	ug/l	94
92)	Bromobenzene	7.290	77	458865	56.1340	ug/l	92
93)	1,3,5-Trimethylbenzene	7.416	105	488468	55.9604	ug/l	86
94)	Butyl methacrylate	7.434	41	246815	49.1620	ug/l	89
95)	t-Butylbenzene	7.633	119	497413	62.1124	ug/l	83
96)	1,2,4-Trimethylbenzene	7.657	105	556170	56.5008	ug/l	88
97)	sec-Butylbenzene	7.765	105	531681	57.1106	ug/l	95
98)	4-Isopropyltoluene	7.850	119	489131	63.4265	ug/l	92
99)	n-Butylbenzene	8.108	91	510644	58.7207	ug/l	88
100)	p-Diethylbenzene	8.090	119	286096	56.3104	ug/l	90
101)	1,2,4,5-Tetramethylben...	8.596	119	427797	57.0423	ug/l	90
102)	1,2-Dibromo-3-Chloropr...	8.662	157	36548	70.4757	ug/l	63
103)	Camphor	9.144	95	102678	525.8973	ug/l	89
104)	Hexachlorobutadiene	9.294	225	157697	82.6401	ug/l	96
105)	1,2,4-Trichlorobenzene	9.204	180	194240	66.7032	ug/l	95
106)	1,2,3-Trichlorobenzene	9.541	180	145358m	63.5128	ug/l	
107)	Naphthalene	9.385	128	279754	56.9998	ug/l	100

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


Abundance
TIC: 2M16117.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 50 PPB
Data File: 2M16117.D
Acq On : 05/20/14 19:21
Operator : WP
Sam Mult : 1 Vial# : 13
Misc : A,5ML
Qt Meth : 2M_A0520.M
Qt On : 05/21/14 09:40
Qt Upd On: 05/21/14 09:30
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
1,1-Dichloroethane,P
Time-->

Abundance
TIC: 2M16117.D\data.ms
n-Hexane
1,1-Dichloroethane,P
Ethyl-t-butyl ether
Ethyl acetate
Bromochloromethane
Chloroform,C
Cyclohexane
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
Ethyl methacrylate
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
n-Butyl acrylate
n-Amyl acetate
Time-->

Abundance
TIC: 2M16117.D\data.ms
Bromofluorobenzene,S
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone
n-Propylbenzene
sec-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (QT Reviewed)

4061226 0060

SampleID : CAL @ 100 PPB Operator : WP Qt Meth : 2M_A0520.M
Data File: 2M16118.D Sam Mult : 1 Vial# : 14 Qt On : 05/21/14 09:39
Acq On : 05/20/14 19:37 Misc : A,5ML Qt Upd On: 05/21/14 09:30

Data Path : G:\GcMsData\2014\GCMS_2\Data\05-20-14\
Qt Path : G:\GcMsData\2014\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.635	96	288317	30.00	ug/l	-0.01
52) Chlorobenzene-d5	6.477	117	248682	30.00	ug/l	-0.01
70) 1,4-Dichlorobenzene-d4	7.904	152	146176	30.00	ug/l	-0.02
System Monitoring Compounds						
37) Dibromofluoromethane	4.196	111	106278	34.10	ug/l	-0.01
Spiked Amount 30.000			Recovery = 113.67%			
39) 1,2-Dichloroethane-d4	4.424	67	56621	30.29	ug/l	-0.01
Spiked Amount 30.000			Recovery = 100.97%			
66) Toluene-d8	5.604	98	304861	28.63	ug/l	-0.01
Spiked Amount 30.000			Recovery = 95.43%			
76) Bromofluorobenzene	7.181	174	130058	32.16	ug/l	-0.01
Spiked Amount 30.000			Recovery = 107.20%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.326	51	587576	114.4761	ug/l	88
6) Dichlorodifluoromethane	1.326	85	406040	116.3144	ug/l	91
7) Chloromethane	1.459	50	272839	101.6061	ug/l	83
8) Bromomethane	1.775	94	171954	129.6419	ug/l	86
9) Vinyl Chloride	1.525	62	242221	120.6373	ug/l	99
10) Chloroethane	1.859	64	143786	110.7617	ug/l	95
11) Trichlorofluoromethane	2.042	101	413223	165.9220	ug/l	88
12) Ethyl ether	2.269	59	213970	95.7237	ug/l	83
13) Furan	2.299	39	529077m	89.9321	ug/l	
14) 1,1,2-Trichloro-1,2,2-...	2.444	101	231331	159.6080	ug/l	98
15) Methylene Chloride	2.823	84	266469	109.4099	ug/l	91
16) Acrolein	2.378	56	198846	842.7104	ug/l	97
17) Acrylonitrile	3.022	53	100291	124.2293	ug/l	99
18) Iodomethane	2.570	142	431642	126.6543	ug/l	97
19) Acetone	2.492	43	358372	497.6071	ug/l	92
20) Carbon Disulfide	2.624	76	712209	108.1088	ug/l	100
21) t-Butyl Alcohol	2.907	59	65387	659.5489	ug/l	90
22) n-Hexane	3.250	57	245343	131.4547	ug/l	85
23) Di-isopropyl-ether	3.425	45	864333	103.4614	ug/l	98
24) 1,1-Dichloroethene	2.450	61	390941	123.8751	ug/l	97
25) Methyl Acetate	2.745	43	251622	114.5637	ug/l	100
26) Methyl-t-butyl ether	3.034	73	483971	109.8481	ug/l	80
27) 1,1-Dichloroethane	3.383	63	473233	125.0484	ug/l	97
28) trans-1,2-Dichloroethene	3.040	96	262661	129.5246	ug/l	85
29) Ethyl-t-butyl ether	3.726	59	199633	41.7006	ug/l	96
30) cis-1,2-Dichloroethene	3.858	61	396709	110.0713	ug/l	84
31) Bromochloromethane	4.033	49	225253	106.3733	ug/l	97
32) 2,2-Dichloropropane	3.858	77	336178	123.1808	ug/l	98
33) Ethyl acetate	3.901	43	288349	103.4361	ug/l	96
34) 1,4-Dioxane	5.080	88	142145	6571.6493	ug/l	93
35) 1,1-Dichloropropene	4.328	75	396215	119.9794	ug/l	97
36) Chloroform	4.087	83	523293	115.5069	ug/l	90
38) Cyclohexane	4.256	56	405454	117.3941	ug/l	98
40) 1,2-Dichloroethane	4.472	62	499961	108.0660	ug/l	93
41) 2-Butanone	3.864	43	118611	103.2358	ug/l	100
42) 1,1,1-Trichloroethane	4.220	97	509529	137.2409	ug/l	100
43) Carbon Tetrachloride	4.328	117	472637	151.2906	ug/l	95
44) Vinyl Acetate	3.419	43	777787	102.2459	ug/l	100
45) Bromodichloromethane	5.165	83	497010	116.9909	ug/l	94
46) Methylcyclohexane	4.984	83	352017	131.6211	ug/l	92
47) Dibromomethane	5.080	174	282707	127.5890	ug/l	91
48) 1,2-Dichloropropane	5.002	63	298696	108.9585	ug/l	99
49) Trichloroethene	4.858	130	341606	119.6469	ug/l	95
50) Benzene	4.466	78	1094188	109.8308	ug/l	100
51) tert-Amyl methyl ether	4.521	73	442722	109.7128	ug/l	88
53) Iso-propylacetate	4.491	43	500451	108.4970	ug/l	79
54) Methyl methacrylate	5.050	41	292685	106.5662	ug/l	86
55) Dibromochloromethane	6.128	129	402936	124.0622	ug/l	95
56) 2-Chloroethylvinylether	5.333	63	178391	104.5545	ug/l	85
57) cis-1,3-Dichloropropene	5.436	75	492254	111.1189	ug/l	92
58) trans-1,3-Dichloropropene	5.761	75	471762	119.5661	ug/l	96
59) Ethyl methacrylate	5.797	41	332244	103.9939	ug/l	87
60) 1,1,2-Trichloroethane	5.881	97	272667	105.4218	ug/l	90
61) 1,2-Dibromoethane	6.206	107	306019	110.6825	ug/l	91
62) 1,3-Dichloropropane	5.983	76	473391	101.7155	ug/l	99
63) 4-Methyl-2-Pentanone	5.520	43	285570	106.7096	ug/l	92
64) 2-Hexanone	6.013	43	199771	114.8386	ug/l	90
65) Tetrachloroethene	5.977	164	305312	129.0373	ug/l	99
67) Toluene	5.640	92	743910	108.2888	ug/l	96

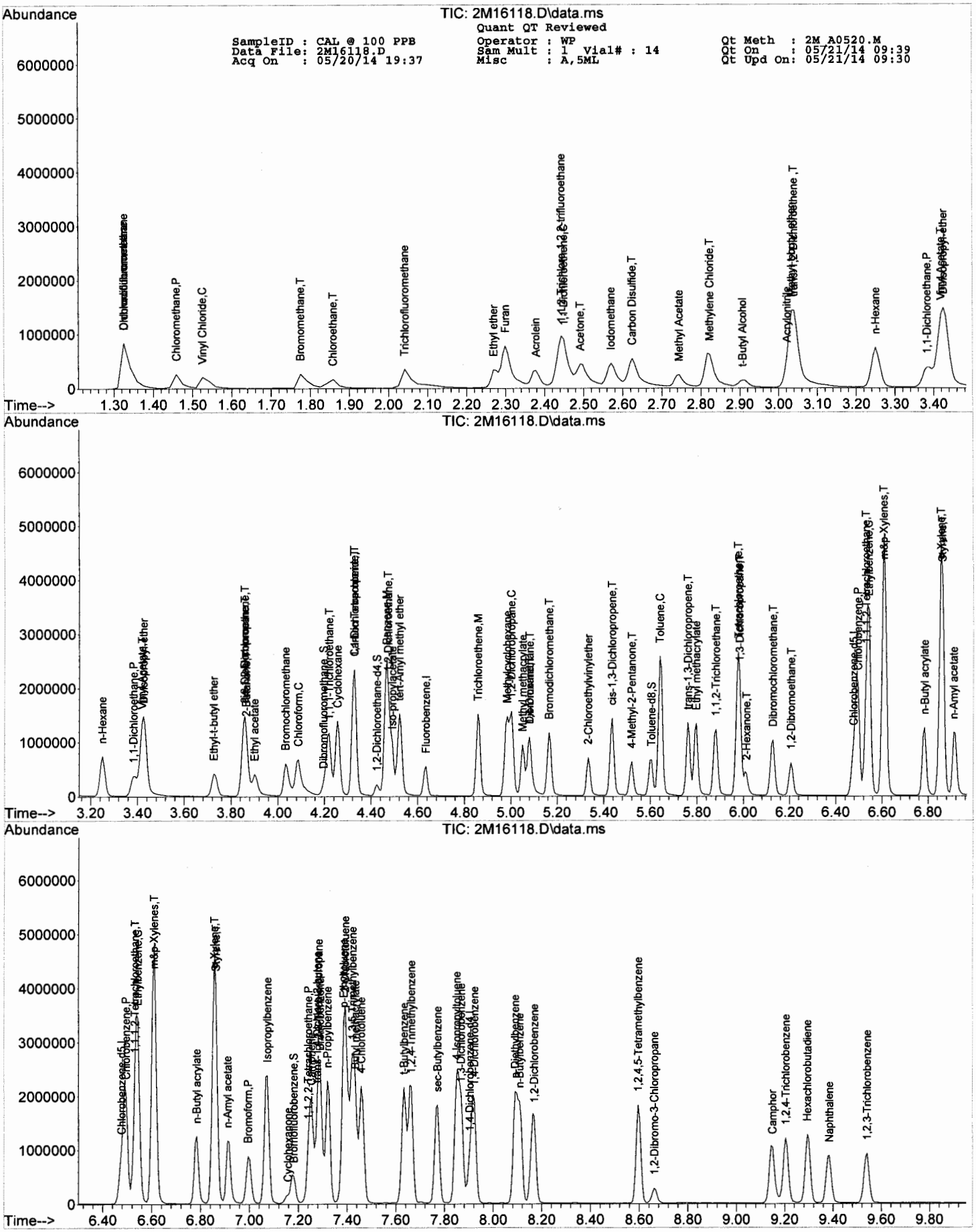
Quantitation Report (QT Reviewed)

SampleID : CAL @ 100 PPB Operator : WP Qt Meth : 2M_A0520.M
Data File: 2M16118.D Sam Mult : 1 Vial# : 14 Qt On : 05/21/14 09:39
Acq On : 05/20/14 19:37 Misc : A,5ML Qt Upd On: 05/21/14 09:30

Data Path : G:\GcMsData\2014\GCMS_2\Data\05-20-14\
Qt Path : G:\GcMsData\2014\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1,1,1,2-Tetrachloroethane	6.531	133	326022	123.6065	ug/l	81
69) Chlorobenzene	6.495	112	847405	108.8497	ug/l	95
71) n-Butyl acrylate	6.784	55	603690	102.1582	ug/l	94
72) n-Amyl acetate	6.910	43	514343	103.2924	ug/l	85
73) Bromoform	6.995	173	316914	132.6198	ug/l	93
74) Ethylbenzene	6.543	106	329600	116.7483	ug/l	85
75) 1,1,2,2-Tetrachloroethane	7.241	83	308420	111.8895	ug/l	91
77) Styrene	6.862	104	857193	109.3766	ug/l	96
78) m&p-Xylenes	6.609	106	957077	213.1865	ug/l	95
79) o-Xylene	6.856	106	483462	110.3807	ug/l	95
80) trans-1,4-Dichloro-2-b...	7.278	53	172690	105.1150	ug/l	84
81) 1,3-Dichlorobenzene	7.867	146	635252	115.4128	ug/l	89
82) 1,4-Dichlorobenzene	7.922	146	658269	116.1900	ug/l	92
83) 1,2-Dichlorobenzene	8.168	146	614482	118.6075	ug/l	88
84) Isopropylbenzene	7.073	105	1231267	114.9866	ug/l	94
85) Cyclohexanone	7.157	55	44683	435.8973	ug/l	98
86) Camphene	7.253	93	303708	112.9658	ug/l	99
87) 1,2,3-Trichloropropane	7.284	75	398074	108.9268	ug/l	96
88) 2-Chlorotoluene	7.392	91	730448	109.2204	ug/l	96
89) p-Ethyltoluene	7.386	105	1192156	107.1805	ug/l	84
90) 4-Chlorotoluene	7.458	91	753981	109.3458	ug/l	92
91) n-Propylbenzene	7.320	91	1352454	109.0274	ug/l	94
92) Bromobenzene	7.290	77	845274	110.7463	ug/l	92
93) 1,3,5-Trimethylbenzene	7.422	105	902931	110.7873	ug/l	88
94) Butyl methacrylate	7.434	41	455742	97.2228	ug/l	91
95) t-Butylbenzene	7.633	119	916666	122.5923	ug/l	86
96) 1,2,4-Trimethylbenzene	7.663	105	1015119	110.4472	ug/l	88
97) sec-Butylbenzene	7.771	105	1019266	117.2584	ug/l	97
98) 4-Isopropyltoluene	7.849	119	905643	125.7747	ug/l	93
99) n-Butylbenzene	8.108	91	937799	115.4978	ug/l	89
100) p-Diethylbenzene	8.090	119	536196	113.0294	ug/l	91
101) 1,2,4,5-Tetramethylben...	8.596	119	837386	119.5848	ug/l	95
102) 1,2-Dibromo-3-Chloropr...	8.662	157	69125	142.7584	ug/l	64
103) Camphor	9.150	95	237602	1303.3603	ug/l	91
104) Hexachlorobutadiene	9.294	225	291070	163.3637	ug/l	97
105) 1,2,4-Trichlorobenzene	9.204	180	366293	134.7186	ug/l	96
106) 1,2,3-Trichlorobenzene	9.541	180	291963m	136.6284	ug/l	
107) Naphthalene	9.384	128	623896	136.1445	ug/l	100

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


Abundance
TIC: 2M16118.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 100 PPB
Data File: 2M16118.D
Acq On : 05/20/14 19:37
Operator : WP
Sam Mult : 1 Vial# : 14
Misc : A,5ML
Qt Meth : 2M_A0520.M
Qt On : 05/21/14 09:39
Qt Upd On: 05/21/14 09:30
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
1,1-Dichloroethane,P
Time-->

Abundance
TIC: 2M16118.D\data.ms
n-Hexane
1,1-Dichloroethane,P
Ethyl-t-butyl ether
Ethyl acetate
Bromochloromethane
Chloroform,C
Cyclohexane
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
Ethyl methacrylate
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Time-->

Abundance
TIC: 2M16118.D\data.ms
Chlorobenzene-d5,I
Chlorobenzene,P
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone,S
n-Propylbenzene
4-Chlorotoluene
t-Butylbenzene
1,2,4-Trimethylbenzene
sec-Butylbenzene
n-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @250 PPB
Data File: 2M16121.D
Acq On : 05/20/14 20:25

Operator : WP
Sam Mult : 1 Vial# : 17
Misc : A,5ML

Qt Meth : 2M_A0520.M
Qt On : 05/21/14 09:36
Qt Upd On: 05/21/14 09:30

Data Path : G:\GcMsData\2014\GCMS_2\Data\05-20-14\
Qt Path : G:\GcMsData\2014\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.634	96	294568	30.00	ug/l	-0.01
52) Chlorobenzene-d5	6.476	117	244247	30.00	ug/l	-0.01
70) 1,4-Dichlorobenzene-d4	7.903	152	144583	30.00	ug/l	-0.02
System Monitoring Compounds						
37) Dibromofluoromethane	4.201	111	101695	31.93	ug/l	0.00
Spiked Amount 30.000			Recovery = 106.43%			
39) 1,2-Dichloroethane-d4	4.430	67	55386	29.00	ug/l	0.00
Spiked Amount 30.000			Recovery = 96.67%			
66) Toluene-d8	5.603	98	312896	29.92	ug/l	-0.01
Spiked Amount 30.000			Recovery = 99.73%			
76) Bromofluorobenzene	7.180	174	131966	33.00	ug/l	-0.01
Spiked Amount 30.000			Recovery = 110.00%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.326	51	1226107	233.8105	ug/l	81
6) Dichlorodifluoromethane	1.326	85	916070	256.8490	ug/l	88
7) Chloromethane	1.459	50	734496	267.7240	ug/l	80
8) Bromomethane	1.775	94	393375	290.2849	ug/l	83
9) Vinyl Chloride	1.526	62	634692	309.3980	ug/l	99
10) Chloroethane	1.842	64	375686	283.2584	ug/l	91
11) Trichlorofluoromethane	2.042	101	939324	369.1643	ug/l	90
12) Ethyl ether	2.275	59	563197	246.6106	ug/l	81
13) Furan	2.299	39	1645134	273.7045	ug/l	86
14) 1,1,2-Trichloro-1,2,2-...	2.437	101	502354	339.2465	ug/l	92
15) Methylene Chloride	2.822	84	706202	283.8072	ug/l	93
16) Acrolein	2.377	56	521891	2164.8409	ug/l	97
17) Acrylonitrile	3.021	53	237784	288.2900	ug/l	92
18) Iodomethane	2.569	142	1121494	322.0904	ug/l	99
19) Acetone	2.497	43	939308	1276.5716	ug/l	94
20) Carbon Disulfide	2.624	76	1783183	264.9317	ug/l	100
21) t-Butyl Alcohol	2.913	59	162140	1600.7756	ug/l	84
22) n-Hexane	3.250	57	527962	276.8788	ug/l	86
23) Di-isopropyl-ether	3.430	45	2324213	272.3065	ug/l	98
24) 1,1-Dichloroethene	2.443	61	961755	298.2786	ug/l	95
25) Methyl Acetate	2.738	43	672582	299.7286	ug/l	100
26) Methyl-t-butyl ether	3.039	73	1241799	275.8730	ug/l	79
27) 1,1-Dichloroethane	3.382	63	1216866	314.7245	ug/l	98
28) trans-1,2-Dichloroethene	3.039	96	642122	309.9267	ug/l	91
29) Ethyl-t-butyl ether	3.731	59	544639	111.3532	ug/l	97
30) cis-1,2-Dichloroethene	3.858	61	1255567	340.9782	ug/l	83
31) Bromochloromethane	4.032	49	567361	262.2443	ug/l	94
32) 2,2-Dichloropropane	3.858	77	778354	279.1487	ug/l	92
33) Ethyl acetate	3.900	43	726444	255.0588	ug/l	97
34) 1,4-Dioxane	5.080	88	321979	14569.8482	ug/l	87
35) 1,1-Dichloropropene	4.327	75	951693	282.0702	ug/l	95
36) Chloroform	4.086	83	1352147	292.1268	ug/l	87
38) Cyclohexane	4.255	56	958672	271.6811	ug/l	99
40) 1,2-Dichloroethane	4.472	62	1229024	260.0148	ug/l	97
41) 2-Butanone	3.864	43	301132	256.5351	ug/l	94
42) 1,1,1-Trichloroethane	4.219	97	1282617	338.1397	ug/l	96
43) Carbon Tetrachloride	4.327	117	1087804	340.8157	ug/l	94
44) Vinyl Acetate	3.418	43	2036058	261.9751	ug/l	100
45) Bromodichloromethane	5.164	83	1295734	298.5296	ug/l	93
46) Methylcyclohexane	4.983	83	775469	283.7991	ug/l	94
47) Dibromomethane	5.080	174	692023	305.6904	ug/l	93
48) 1,2-Dichloropropane	5.001	63	771359	275.4057	ug/l	93
49) Trichloroethene	4.857	130	862583	295.7069	ug/l	92
50) Benzene	4.466	78	2769684	272.1117	ug/l	100
51) tert-Amyl methyl ether	4.526	73	1117574	271.0735	ug/l	87
53) Iso-propylacetate	4.490	43	1305131	288.0881	ug/l	80
54) Methyl methacrylate	5.050	41	750892	278.3631	ug/l	86
55) Dibromochloromethane	6.127	129	1038259	325.4799	ug/l	96
56) 2-Chloroethylvinylether	5.332	63	478740	285.6832	ug/l	84
57) cis-1,3-Dichloropropene	5.435	75	1303088	299.4936	ug/l	91
58) trans-1,3-Dichloropropene	5.760	75	1226313	316.4475	ug/l	95
59) Ethyl methacrylate	5.796	41	854621	272.3576	ug/l	88
60) 1,1,2-Trichloroethane	5.880	97	703355	276.8773	ug/l	89
61) 1,2-Dibromoethane	6.205	107	774968	285.3839	ug/l	86
62) 1,3-Dichloropropane	5.983	76	1187175	259.7150	ug/l	97
63) 4-Methyl-2-Pentanone	5.519	43	744270	283.1630	ug/l	92
64) 2-Hexanone	6.013	43	507673	297.1355	ug/l	90
65) Tetrachloroethene	5.977	164	701176	301.7267	ug/l	99
67) Toluene	5.645	92	1882529	279.0102	ug/l	94

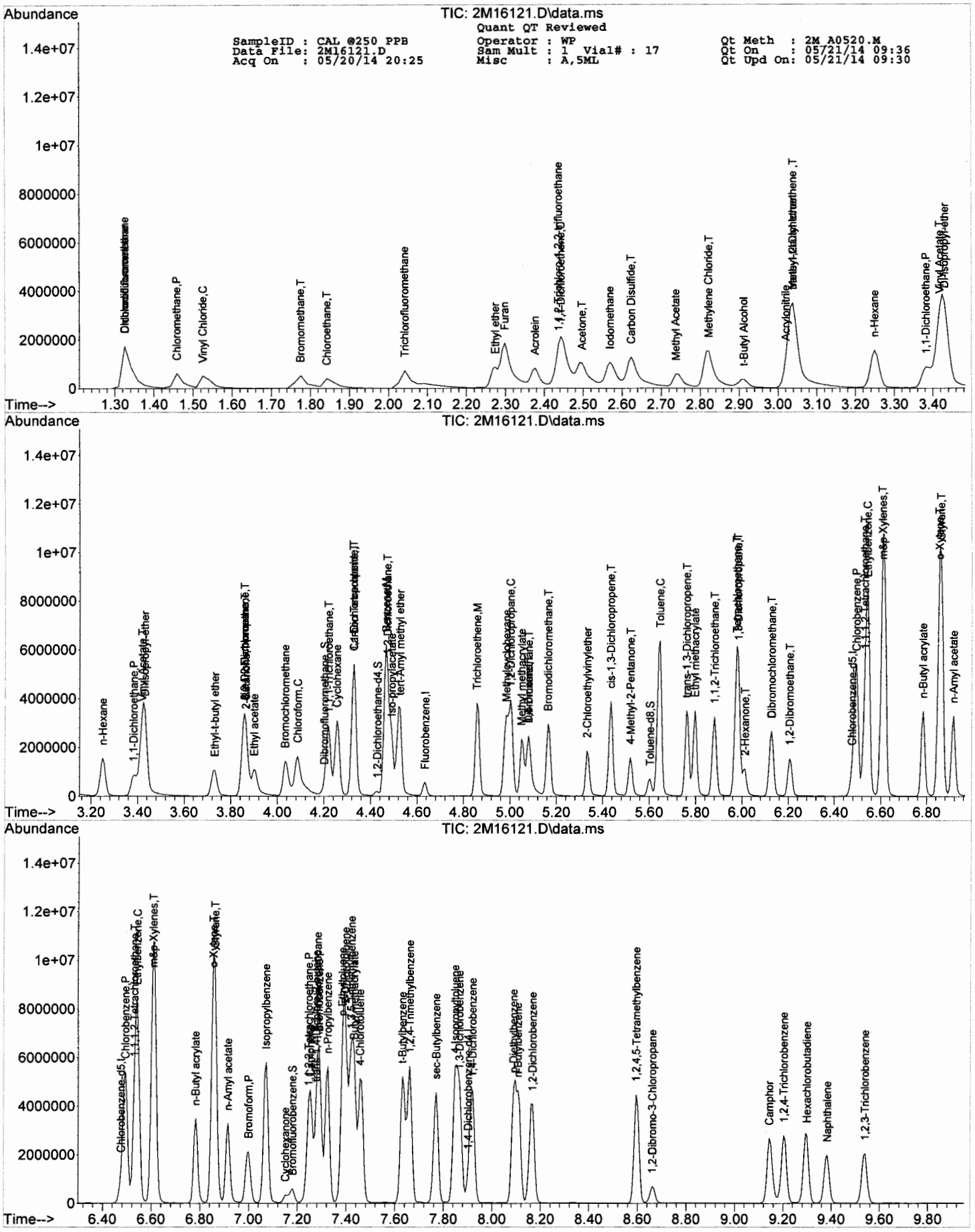
Quantitation Report (QT Reviewed)

SampleID : CAL @250 PPB Operator : WP Qt Meth : 2M_A0520.M
Data File: 2M16121.D Sam Mult : 1 Vial# : 17 Qt On : 05/21/14 09:36
Acq On : 05/20/14 20:25 Misc : A,5ML Qt Upd On: 05/21/14 09:30

Data Path : G:\GcMsData\2014\GCMS_2\Data\05-20-14\
Qt Path : G:\GcMsData\2014\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1,1,1,2-Tetrachloroethane	6.530	133	783263	302.3549	ug/l	84
69) Chlorobenzene	6.494	112	2181272	285.2733	ug/l	96
71) n-Butyl acrylate	6.783	55	1617021	276.6520	ug/l	94
72) n-Amyl acetate	6.916	43	1353387	274.7872	ug/l	84
73) Bromoform	7.000	173	810422	342.8759	ug/l	95
74) Ethylbenzene	6.542	106	750560	268.7866	ug/l	93
75) 1,1,2,2-Tetrachloroethane	7.247	83	784813	287.8537	ug/l	93
77) Styrene	6.861	104	2052122	264.7329	ug/l	97
78) m&p-Xylenes	6.609	106	2273210	511.9308	ug/l	96
79) o-Xylene	6.855	106	1139891	263.1196	ug/l	89
80) trans-1,4-Dichloro-2-b...	7.277	53	400240	246.3070	ug/l	77
81) 1,3-Dichlorobenzene	7.867	146	1569739	288.3329	ug/l	88
82) 1,4-Dichlorobenzene	7.921	146	1631404	291.1292	ug/l	94
83) 1,2-Dichlorobenzene	8.168	146	1520289	296.6798	ug/l	90
84) Isopropylbenzene	7.072	105	3007822	283.9919	ug/l	94
85) Cyclohexanone	7.150	55	100373	989.9598	ug/l	94
86) Camphene	7.253	93	706221	265.5769	ug/l	99
87) 1,2,3-Trichloropropane	7.283	75	1000663	276.8329	ug/l	91
88) 2-Chlorotoluene	7.397	91	1752968	265.0010	ug/l	98
89) p-Ethyltoluene	7.385	105	2813891	255.7696	ug/l	83
90) 4-Chlorotoluene	7.457	91	1781809	261.2532	ug/l	91
91) n-Propylbenzene	7.325	91	3443098	280.6217	ug/l	96
92) Bromobenzene	7.289	77	2065811	273.6411	ug/l	93
93) 1,3,5-Trimethylbenzene	7.421	105	2260632	280.4297	ug/l	88
94) Butyl methacrylate	7.433	41	1217013	262.4843	ug/l	90
95) t-Butylbenzene	7.632	119	2278530	308.0816	ug/l	84
96) 1,2,4-Trimethylbenzene	7.662	105	2552741	280.8041	ug/l	88
97) sec-Butylbenzene	7.770	105	2488118	289.3917	ug/l	95
98) 4-Isopropyltoluene	7.849	119	2191073	307.6465	ug/l	92
99) n-Butylbenzene	8.107	91	2301101	286.5224	ug/l	89
100) p-Diethylbenzene	8.089	119	1335826	284.6930	ug/l	91
101) 1,2,4,5-Tetramethylben...	8.595	119	2132612	307.9080	ug/l	93
102) 1,2-Dibromo-3-Chloropr...	8.661	157	173594	362.4600	ug/l	67
103) Camphor	9.143	95	579195	3212.1664	ug/l	91
104) Hexachlorobutadiene	9.299	225	661271	375.2291	ug/l	96
105) 1,2,4-Trichlorobenzene	9.203	180	854471	317.7276	ug/l	96
106) 1,2,3-Trichlorobenzene	9.540	180	656380m	310.5469	ug/l	
107) Naphthalene	9.384	128	1400276	308.9303	ug/l	100

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


Abundance
TIC: 2M16121.D\data.ms
Quant QT Reviewed
SampleID : CAL @250 PPB
Data File: 2M16121.D
Acq On : 05/20/14 20:25
Operator : WP
Sam Mult : 1 Vial# : 17
Misc : A,5ML
Qt Meth : 2M_A0520.M
Qt On : 05721/14 09:36
Qt Upd On: 05/21/14 09:30
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @ 500 PPB
Data File: 2M16124.D
Acq On : 05/20/14 21:12

Operator : WP
Sam Mult : 1 Vial# : 20
Misc : A,5ML

Qt Meth : 2M_A0520.M
Qt On : 05/21/14 09:30
Qt Upd On: 05/21/14 09:30

Data Path : G:\GcMsData\2014\GCMS_2\Data\05-20-14\
Qt Path : G:\GcMsData\2014\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.634	96	300096	30.00	ug/l	-0.01
52) Chlorobenzene-d5	6.476	117	244917	30.00	ug/l	-0.01
70) 1,4-Dichlorobenzene-d4	7.903	152	138400	30.00	ug/l	-0.02
System Monitoring Compounds						
37) Dibromofluoromethane	4.201	111	88880	27.39	ug/l	0.00
Spiked Amount 30.000			Recovery = 91.30%			
39) 1,2-Dichloroethane-d4	4.430	67	53420	27.46	ug/l	0.00
Spiked Amount 30.000			Recovery = 91.53%			
66) Toluene-d8	5.604	98	312112	29.76	ug/l	-0.01
Spiked Amount 30.000			Recovery = 99.20%			
76) Bromofluorobenzene	7.181	174	124303	32.47	ug/l	-0.01
Spiked Amount 30.000			Recovery = 108.23%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.325	51	2404796	450.1313	ug/l	83
6) Dichlorodifluoromethane	1.325	85	1745504	480.3916	ug/l	90
7) Chloromethane	1.458	50	1474860	527.6841	ug/l	81
8) Bromomethane	1.758	94	445626	322.7852	ug/l	84
9) Vinyl Chloride	1.525	62	1251225	598.7082	ug/l	97
10) Chloroethane	1.841	64	674580	499.2484	ug/l	89
11) Trichlorofluoromethane	2.041	101	1833222	707.2039	ug/l	88
12) Ethyl ether	2.269	59	1041456	447.6284	ug/l	80
13) Furan	2.293	39	3163975	516.7008	ug/l	84
14) 1,1,2-Trichloro-1,2,2-...	2.437	101	951800	630.9233	ug/l	93
15) Methylene Chloride	2.817	84	1311269	517.2633	ug/l	94
16) Acrolein	2.377	56	997296	4060.6505	ug/l	98
17) Acrylonitrile	3.021	53	466507	555.1757	ug/l	96
18) Iodomethane	2.570	142	2064846	582.0950	ug/l	98
19) Acetone	2.497	43	1765764	2355.5654	ug/l	92
20) Carbon Disulfide	2.618	76	3416392	498.2314	ug/l	100
21) t-Butyl Alcohol	2.913	59	322282	3123.2137	ug/l	81
22) n-Hexane	3.250	57	987755	508.4657	ug/l	87
23) Di-isopropyl-ether	3.431	45	4388970	504.7427	ug/l	96
24) 1,1-Dichloroethene	2.443	61	1805619	549.6789	ug/l	95
25) Methyl Acetate	2.738	43	1305048	570.8668	ug/l	100
26) Methyl-t-butyl ether	3.033	73	2296087	500.6932	ug/l	80
27) 1,1-Dichloroethane	3.382	63	2314528	587.5917	ug/l	99
28) trans-1,2-Dichloroethene	3.039	96	1158588	548.9033	ug/l	92
29) Ethyl-t-butyl ether	3.732	59	1073603	215.4583	ug/l	98
30) cis-1,2-Dichloroethene	3.858	61	2276571m	606.8666	ug/l	
31) Bromochloromethane	4.032	49	1071834	486.2946	ug/l	93
32) 2,2-Dichloropropane	3.858	77	1385477	487.7341	ug/l	93
33) Ethyl acetate	3.900	43	1411000	486.2847	ug/l	97
34) 1,4-Dioxane	5.086	88	593841	26376.8553	ug/l	88
35) 1,1-Dichloropropene	4.327	75	1671669	486.3356	ug/l	97
36) Chloroform	4.087	83	2544635	539.6328	ug/l	89
38) Cyclohexane	4.255	56	1798800	500.3774	ug/l	97
40) 1,2-Dichloroethane	4.478	62	2168578	450.3374	ug/l	97
41) 2-Butanone	3.864	43	574353	480.2796	ug/l	89
42) 1,1,1-Trichloroethane	4.219	97	2328581	602.5817	ug/l	98
43) Carbon Tetrachloride	4.333	117	1917942	589.8340	ug/l	92
44) Vinyl Acetate	3.418	43	3877748	489.7504	ug/l	100
45) Bromodichloromethane	5.164	83	2373732	536.8199	ug/l	94
46) Methylcyclohexane	4.984	83	1432681	514.6612	ug/l	96
47) Dibromomethane	5.080	174	1203818	521.9723	ug/l	93
48) 1,2-Dichloropropane	5.002	63	1442113	505.4068	ug/l	98
49) Trichloroethene	4.857	130	1551997	522.2480	ug/l	92
50) Benzene	4.466	78	5023552	484.4549	ug/l	100
51) tert-Amyl methyl ether	4.526	73	2097272	499.3338	ug/l	87
53) Iso-propylacetate	4.490	43	2534350	557.8893	ug/l	82
54) Methyl methacrylate	5.050	41	1440395	532.5079	ug/l	87
55) Dibromochloromethane	6.127	129	1864225	582.8102	ug/l	97
56) 2-Chloroethylvinylether	5.333	63	915464	544.7994	ug/l	85
57) cis-1,3-Dichloropropene	5.435	75	2434380	557.9721	ug/l	90
58) trans-1,3-Dichloropropene	5.760	75	2323719	597.9905	ug/l	98
59) Ethyl methacrylate	5.796	41	1632398	518.8029	ug/l	87
60) 1,1,2-Trichloroethane	5.880	97	1285979	504.8437	ug/l	90
61) 1,2-Dibromoethane	6.206	107	1432366	526.0294	ug/l	91
62) 1,3-Dichloropropane	5.983	76	2110718	460.4927	ug/l	98
63) 4-Methyl-2-Pentanone	5.519	43	1453955	551.6546	ug/l	95
64) 2-Hexanone	6.013	43	990525	578.1577	ug/l	91
65) Tetrachloroethene	5.977	164	1176422	504.8474	ug/l	98
67) Toluene	5.646	92	3399349	502.4403	ug/l	93

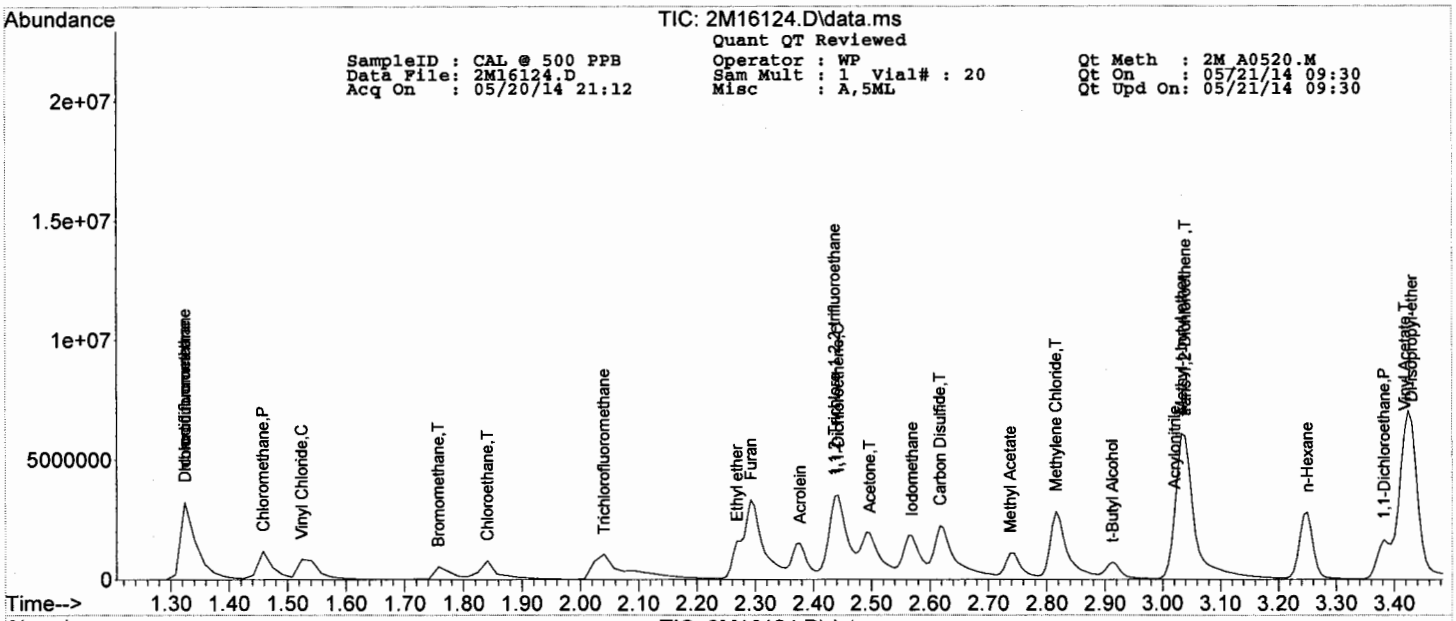
Quantitation Report (QT Reviewed)

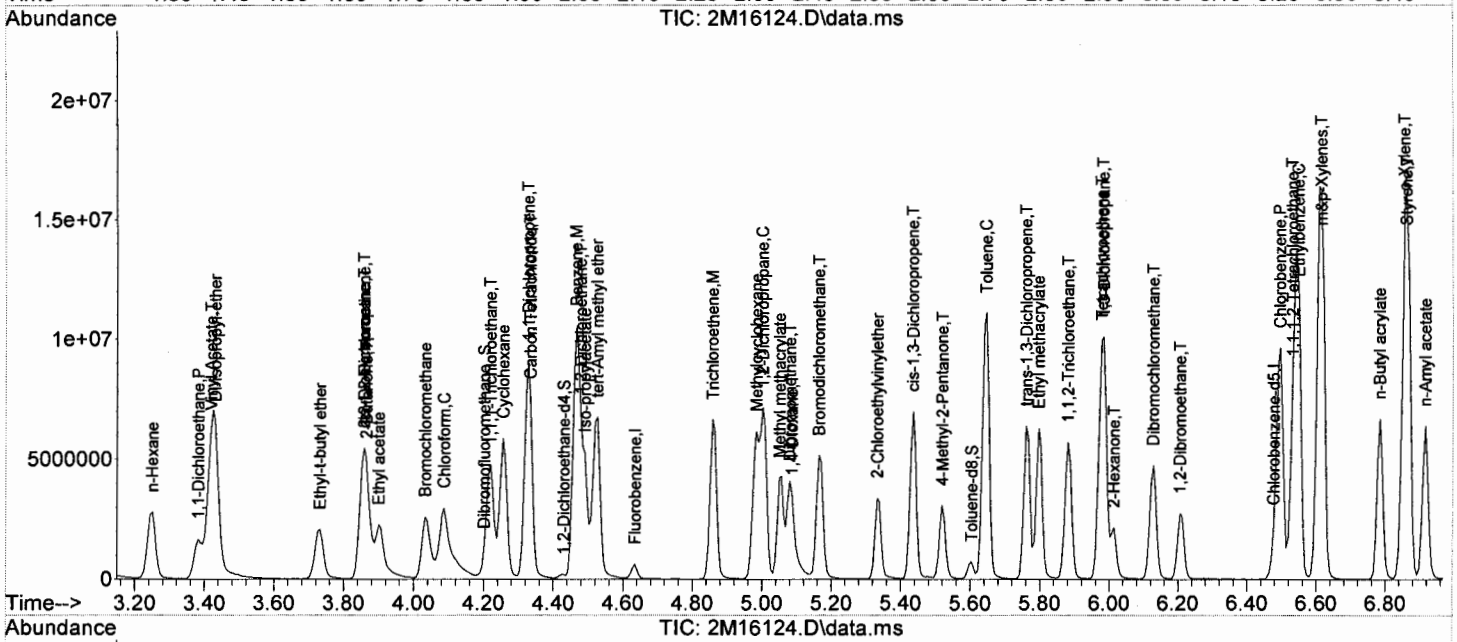
SampleID : CAL @ 500 PPB Operator : WP Qt Meth : 2M_A0520.M
Data File: 2M16124.D Sam Mult : 1 Vial# : 20 Qt On : 05/21/14 09:30
Acq On : 05/20/14 21:12 Misc : A,5ML Qt Upd On: 05/21/14 09:30

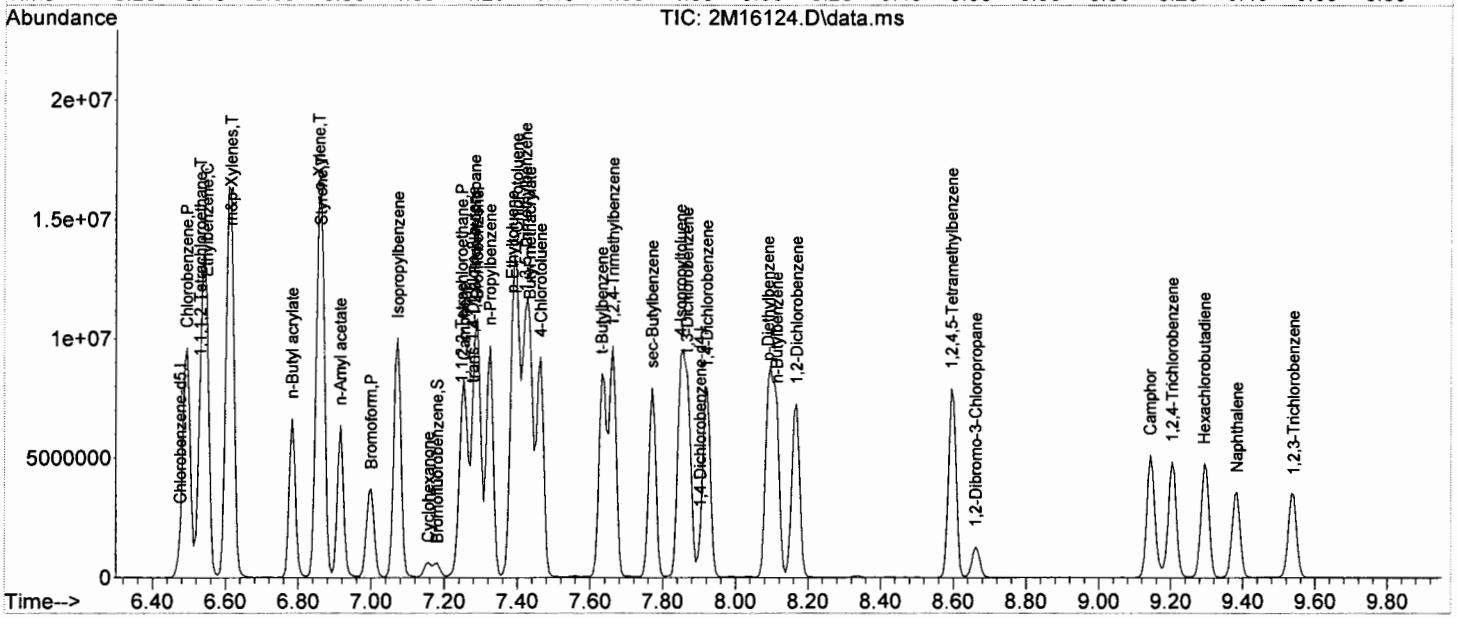
Data Path : G:\GcMsData\2014\GCMS_2\Data\05-20-14\
Qt Path : G:\GcMsData\2014\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1,1,1,2-Tetrachloroethane	6.531	133	1316340	506.7431	ug/l	82
69) Chlorobenzene	6.495	112	3956429	516.0182	ug/l	99
71) n-Butyl acrylate	6.783	55	3132634	559.8981	ug/l	94
72) n-Amyl acetate	6.916	43	2640773	560.1273	ug/l	86
73) Bromoform	7.000	173	1432372	633.0860	ug/l	97
74) Ethylbenzene	6.549	106	1197568	448.0263	ug/l	95
75) 1,1,2,2-Tetrachloroethane	7.247	83	1384006	530.3038	ug/l	93
77) Styrene	6.862	104	3408902	459.4099	ug/l	99
78) m&p-Xylenes	6.615	106	3717772	874.6526	ug/l	99
79) o-Xylene	6.856	106	1880613	453.4928	ug/l	84
80) trans-1,4-Dichloro-2-b...	7.277	53	702588	451.6876	ug/l	75
81) 1,3-Dichlorobenzene	7.867	146	2677329	513.7474	ug/l	88
82) 1,4-Dichlorobenzene	7.921	146	2808833	523.6381	ug/l	94
83) 1,2-Dichlorobenzene	8.168	146	2682463	546.8608	ug/l	90
84) Isopropylbenzene	7.072	105	5399619	532.5963	ug/l	94
85) Cyclohexanone	7.157	55	194422	2003.2134	ug/l	97
86) Camphene	7.253	93	1275904	501.2435	ug/l	97
87) 1,2,3-Trichloropropane	7.283	75	1729710	499.9013	ug/l	89
88) 2-Chlorotoluene	7.397	91	2862289	452.0309	ug/l	97
89) p-Ethyltoluene	7.385	105	4600204	436.8173	ug/l	83
90) 4-Chlorotoluene	7.464	91	3330615	510.1596	ug/l	93
91) n-Propylbenzene	7.325	91	6053218	515.3940	ug/l	96
92) Bromobenzene	7.289	77	3588767	496.6119	ug/l	91
93) 1,3,5-Trimethylbenzene	7.422	105	3842608	497.9679	ug/l	88
94) Butyl methacrylate	7.434	41	2193401	494.2052	ug/l	91
95) t-Butylbenzene	7.632	119	3972343	561.0982	ug/l	84
96) 1,2,4-Trimethylbenzene	7.662	105	4464092	512.9925	ug/l	89
97) sec-Butylbenzene	7.771	105	4525479	549.8710	ug/l	97
98) 4-Isopropyltoluene	7.849	119	3833356	562.2835	ug/l	92
99) n-Butylbenzene	8.114	91	4111365	534.7983	ug/l	90
100) p-Diethylbenzene	8.090	119	2318394	516.1729	ug/l	91
101) 1,2,4,5-Tetramethylben...	8.595	119	3876622	584.7143	ug/l	93
102) 1,2-Dibromo-3-Chloropr...	8.662	157	331230	722.4972	ug/l	66
103) Camphor	9.143	95	1099466	6369.9522	ug/l	92
104) Hexachlorobutadiene	9.294	225	1107973	656.7912	ug/l	96
105) 1,2,4-Trichlorobenzene	9.203	180	1503752	584.1374	ug/l	96
106) 1,2,3-Trichlorobenzene	9.540	180	1139505m	563.2086	ug/l	
107) Naphthalene	9.384	128	2597805	598.7348	ug/l	100

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


Abundance
TIC: 2M16124.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 500 PPB
Data File: 2M16124.D
Acq On : 05/20/14 21:12
Operator : WP
Sam Mult : 1 Vial# : 20
Misc : A,5ML
Qt Meth : 2M_A0520.M
Qt On : 05/21/14 09:30
Qt Upd On: 05/21/14 09:30
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
1,1-Dichloroethane,P
Time-->


Abundance
TIC: 2M16124.D\data.ms
n-Hexane
1,1-Dichloroethane,P
Ethyl-t-butyl ether
Ethyl acetate
Bromochloromethane
Chloroform,C
Cyclohexane
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Trichloroethene,M
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
Trans-1,3-Dichloropropene,T
Ethyl methacrylate
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Chlorobenzene,P
Ethylbenzene,C
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Time-->


Abundance
TIC: 2M16124.D\data.ms
Chlorobenzene-d5,I
Chlorobenzene,P
Ethylbenzene,C
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone
4-Chlorotoluene
t-Butylbenzene
1,2,4-Trimethylbenzene
sec-Butylbenzene
1,4-Dichlorobenzene-d4,I
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @ 1 PPB
Data File: 2M16112.D
Acq On : 05/20/14 18:01

Operator : WP
Sam Mult : 1 Vial# : 8
Misc : A,5ML

Qt Meth : 2M_A0520.M
Qt On : 05/21/14 09:50
Qt Upd On: 05/21/14 09:30

Data Path : G:\GcMsData\2014\GCMS_2\Data\05-20-14\
Qt Path : G:\GcMsData\2014\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.634	96	253422	30.00	ug/l	-0.01
52) Chlorobenzene-d5	6.476	117	220999	30.00	ug/l	-0.01
70) 1,4-Dichlorobenzene-d4	7.903	152	130481	30.00	ug/l	-0.02
System Monitoring Compounds						
37) Dibromofluoromethane	4.195	111	100931	36.84	ug/l	-0.01
Spiked Amount 30.000			Recovery = 122.80%			
39) 1,2-Dichloroethane-d4	4.424	67	59163	36.01	ug/l	-0.01
Spiked Amount 30.000			Recovery = 120.03%			
66) Toluene-d8	5.603	98	261448	27.63	ug/l	-0.01
Spiked Amount 30.000			Recovery = 92.10%			
76) Bromofluorobenzene	7.181	174	115341	31.96	ug/l	-0.01
Spiked Amount 30.000			Recovery = 106.53%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.326	51	4908	1.0879	ug/l	94
6) Dichlorodifluoromethane	1.326	85	2738	0.8923	ug/l	97
7) Chloromethane	1.459	50	2646	1.1211	ug/l	93
8) Bromomethane	1.776	94	1397	1.1983	ug/l	87
9) Vinyl Chloride	1.526	62	2287	1.2959	ug/l	70
10) Chloroethane	1.859	64	2408	2.1104	ug/l	90
11) Trichlorofluoromethane	2.042	101	3507	1.6021	ug/l	80
12) Ethyl ether	2.275	59	1723	0.8770	ug/l	50
13) Furan	2.305	39	4969m	0.9609	ug/l	
14) 1,1,2-Trichloro-1,2,2-...	2.449	101	1482m	1.1633	ug/l	
15) Methylene Chloride	2.822	84	2926m	1.3668	ug/l	
16) Acrolein	2.389	56	1037m	5.0000	ug/l	
17) Acrylonitrile	3.045	53	975m	1.3740	ug/l	
18) Iodomethane	2.576	142	3699	1.2348	ug/l	74
19) Acetone	2.503	43	3161m	4.9935	ug/l	
20) Carbon Disulfide	2.624	76	6111m	1.0553	ug/l	
21) t-Butyl Alcohol	2.907	59	413	4.7395	ug/l	50
22) n-Hexane	3.250	57	1636m	0.9973	ug/l	
23) Di-isopropyl-ether	3.424	45	6264	0.8531	ug/l	71
24) 1,1-Dichloroethene	2.443	61	3298m	1.1889	ug/l	
25) Methyl Acetate	2.744	43	2685	1.3908	ug/l	100
26) Methyl-t-butyl ether	3.033	73	3425m	0.8844	ug/l	
27) 1,1-Dichloroethane	3.376	63	3845m	1.1559	ug/l	
28) trans-1,2-Dichloroethene	3.033	96	2301m	1.2909	ug/l	
29) Ethyl-t-butyl ether	3.731	59	1524	0.3622	ug/l	79
30) cis-1,2-Dichloroethene	3.858	61	3953	1.2478	ug/l	81
31) Bromochloromethane	4.044	49	3115m	1.6736	ug/l	
32) 2,2-Dichloropropane	3.858	77	2507	1.0451	ug/l	91
33) Ethyl acetate	3.906	43	2075m	0.8468	ug/l	
34) 1,4-Dioxane	5.092	88	861m	45.2868	ug/l	
35) 1,1-Dichloropropene	4.327	75	3166	1.0907	ug/l	68
36) Chloroform	4.081	83	4988	1.2526	ug/l	82
38) Cyclohexane	4.255	56	2518	0.8294	ug/l	85
40) 1,2-Dichloroethane	4.472	62	5238	1.2881	ug/l	88
41) 2-Butanone	3.876	43	591m	0.5852	ug/l	
42) 1,1,1-Trichloroethane	4.219	97	4421	1.3548	ug/l	80
43) Carbon Tetrachloride	4.321	117	4713m	1.7164	ug/l	
44) Vinyl Acetate	3.430	43	4379m	0.6549	ug/l	
45) Bromodichloromethane	5.164	83	4376	1.1719	ug/l	92
46) Methylcyclohexane	4.983	83	2362	1.0048	ug/l	94
47) Dibromomethane	5.080	174	3274	1.6811	ug/l	78
48) 1,2-Dichloropropane	5.002	63	2865	1.1890	ug/l	44
49) Trichloroethene	4.863	130	2974	1.1851	ug/l	68
50) Benzene	4.466	78	8375	0.9564	ug/l	100
51) tert-Amyl methyl ether	4.526	73	3677	1.0367	ug/l	75
53) Iso-propylacetate	4.484	43	2907m	0.7092	ug/l	
54) Methyl methacrylate	5.050	41	1482	0.6072	ug/l	86
55) Dibromochloromethane	6.121	129	4420	1.5314	ug/l	70
56) 2-Chloroethylvinylether	5.333	63	795	0.5243	ug/l	78
57) cis-1,3-Dichloropropene	5.441	75	3904	0.9917	ug/l	72
58) trans-1,3-Dichloropropene	5.766	75	2481	0.7076	ug/l	87
59) Ethyl methacrylate	5.796	41	2318	0.8164	ug/l	60
60) 1,1,2-Trichloroethane	5.874	97	3568m	1.5523	ug/l	
61) 1,2-Dibromoethane	6.205	107	2729	1.1107	ug/l	99
62) 1,3-Dichloropropane	5.983	76	4854	1.1736	ug/l	82
63) 4-Methyl-2-Pentanone	5.519	43	1390m	0.5845	ug/l	
64) 2-Hexanone	6.007	43	815m	0.5272	ug/l	
65) Tetrachloroethene	5.971	164	3163	1.5043	ug/l	71
67) Toluene	5.640	92	6617	1.0839	ug/l	91

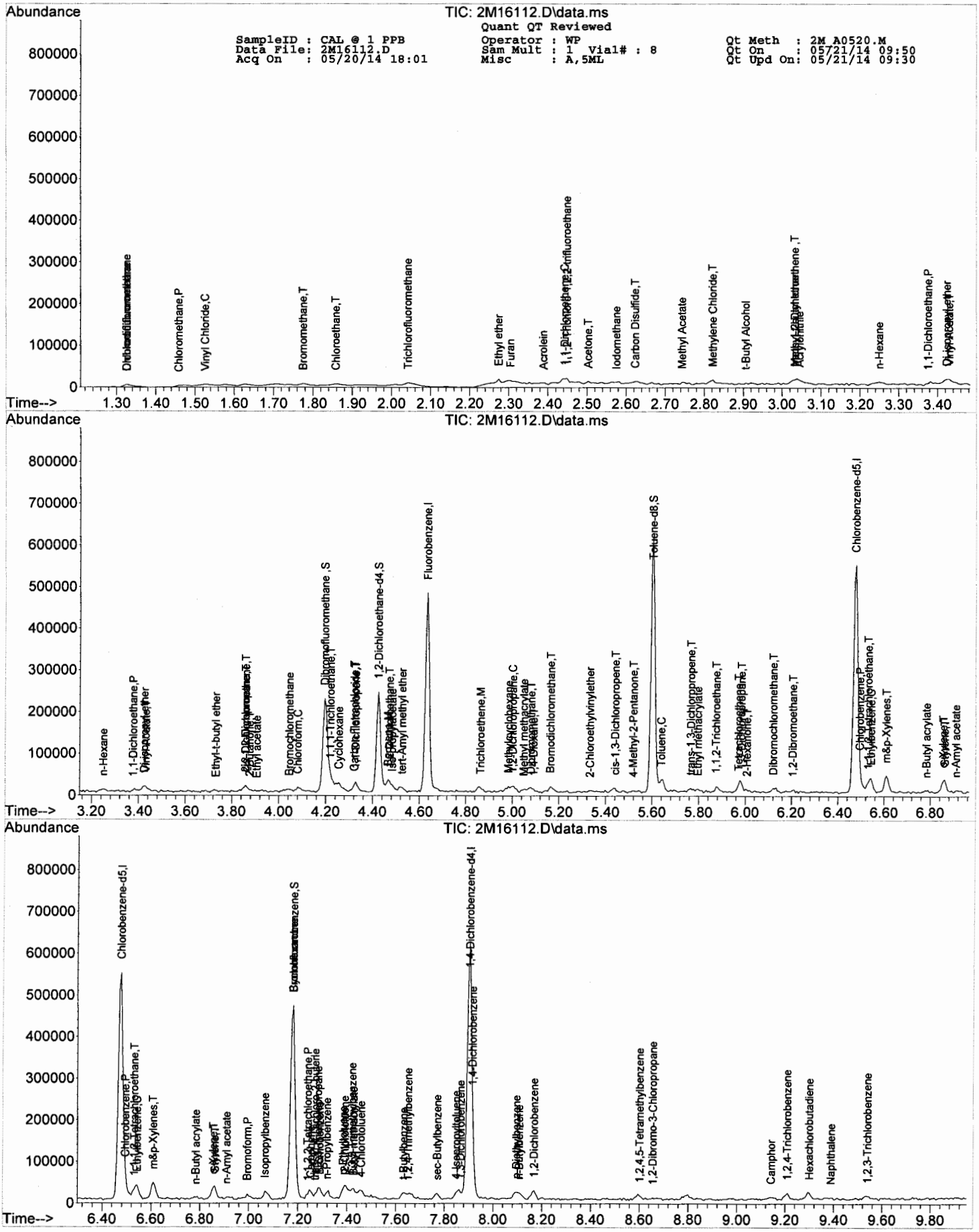
Quantitation Report (QT Reviewed)

SampleID : CAL @ 1 PPB Operator : WP Qt Meth : 2M_A0520.M
Data File: 2M16112.D Sam Mult : 1 Vial# : 8 Qt On : 05/21/14 09:50
Acq On : 05/20/14 18:01 Misc : A,5ML Qt Upd On: 05/21/14 09:30

Data Path : G:\GcMsData\2014\GCMS_2\Data\05-20-14\
Qt Path : G:\GcMsData\2014\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1,1,1,2-Tetrachloroethane	6.531	133	3296	1.4062	ug/l	59
69) Chlorobenzene	6.494	112	8619	1.2458	ug/l	90
71) n-Butyl acrylate	6.783	55	3063	0.5807	ug/l	92
72) n-Amyl acetate	6.910	43	2418	0.5440	ug/l	82
73) Bromoform	6.994	173	3161	1.4819	ug/l	66
74) Ethylbenzene	6.543	106	2161	0.8575	ug/l	37
75) 1,1,2,2-Tetrachloroethane	7.241	83	2786m	1.1323	ug/l	
77) Styrene	6.862	104	5660	0.8091	ug/l	66
78) m&p-Xylenes	6.609	106	7354	1.8351	ug/l	91
79) o-Xylene	6.856	106	3965	1.0142	ug/l	66
80) trans-1,4-Dichloro-2-b...	7.271	53	1873	1.2772	ug/l	78
81) 1,3-Dichlorobenzene	7.867	146	6618	1.3470	ug/l	80
82) 1,4-Dichlorobenzene	7.915	146	7393	1.4619	ug/l	80
83) 1,2-Dichlorobenzene	8.168	146	6123	1.3240	ug/l	89
84) Isopropylbenzene	7.066	105	7933	0.8300	ug/l	84
85) Cyclohexanone	7.181	55	396m	4.3278	ug/l	
86) Camphene	7.253	93	1772	0.7384	ug/l	100
87) 1,2,3-Trichloropropane	7.283	75	3317	1.0168	ug/l	75
88) 2-Chlorotoluene	7.391	91	5974	1.0007	ug/l	85
89) p-Ethyltoluene	7.385	105	8760	0.8823	ug/l	85
90) 4-Chlorotoluene	7.458	91	6265	1.0179	ug/l	91
91) n-Propylbenzene	7.319	91	9964	0.8999	ug/l	98
92) Bromobenzene	7.289	77	6505	0.9548	ug/l	82
93) 1,3,5-Trimethylbenzene	7.421	105	7080	0.9732	ug/l	88
94) Butyl methacrylate	7.427	41	3415	0.8161	ug/l	75
95) t-Butylbenzene	7.632	119	6328	0.9481	ug/l	81
96) 1,2,4-Trimethylbenzene	7.650	105	6318	0.7701	ug/l	68
97) sec-Butylbenzene	7.771	105	7086	0.9132	ug/l	91
98) 4-Isopropyltoluene	7.849	119	5874	0.9139	ug/l	90
99) n-Butylbenzene	8.108	91	6329	0.8732	ug/l	95
100) p-Diethylbenzene	8.096	119	2948m	0.6962	ug/l	
101) 1,2,4,5-Tetramethylben...	8.601	119	4550	0.7279	ug/l	88
102) 1,2-Dibromo-3-Chloropr...	8.655	157	506m	1.1707	ug/l	
103) Camphor	9.143	95	897	5.5123	ug/l	84
104) Hexachlorobutadiene	9.300	225	3201	2.0127	ug/l	89
105) 1,2,4-Trichlorobenzene	9.209	180	3289	1.3552	ug/l	94
106) 1,2,3-Trichlorobenzene	9.540	180	2512m	1.3169	ug/l	
107) Naphthalene	9.390	128	3040	0.7432	ug/l	100

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


Abundance
TIC: 2M16112.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 1 PPB
Data File: 2M16112.D
Acq On : 05/20/14 18:01
Operator : WP
Sam Mult : 1 Vial# : 8
Misc : A,5ML
Qt Meth : 2M_A0520.M
Qt On : 05721/14 09:50
Qt Upd On: 05/21/14 09:30
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @ 0.5 PPB
Data File: 2M16111.D
Acq On : 05/20/14 17:45

Operator : WP
Sam Mult : 1 Vial# : 7
Misc : A,5ML

Qt Meth : 2M_A0520.M
Qt On : 05/21/14 09:55
Qt Upd On: 05/21/14 09:30

Data Path : G:\GcMsData\2014\GCMS_2\Data\05-20-14\
Qt Path : G:\GcMsData\2014\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.635	96	251813	30.00	ug/l	-0.01
52) Chlorobenzene-d5	6.477	117	217414	30.00	ug/l	-0.01
70) 1,4-Dichlorobenzene-d4	7.904	152	129126	30.00	ug/l	-0.02
System Monitoring Compounds						
37) Dibromofluoromethane	4.196	111	103884	38.16	ug/l	-0.01
Spiked Amount 30.000			Recovery = 127.20%			
39) 1,2-Dichloroethane-d4	4.425	67	55593	34.06	ug/l	-0.01
Spiked Amount 30.000			Recovery = 113.53%			
66) Toluene-d8	5.598	98	262828	28.23	ug/l	-0.02
Spiked Amount 30.000			Recovery = 94.10%			
76) Bromofluorobenzene	7.181	174	113198	31.69	ug/l	-0.01
Spiked Amount 30.000			Recovery = 105.63%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	0.000		0	N.D.	d	
6) Dichlorodifluoromethane	0.000		0	N.D.	d	
7) Chloromethane	0.000		0	N.D.	d	
8) Bromomethane	0.000		0	N.D.	d	
9) Vinyl Chloride	0.000		0	N.D.	d	
10) Chloroethane	0.000		0	N.D.		
11) Trichlorofluoromethane	0.000		0	N.D.	d	
12) Ethyl ether	0.000		0	N.D.	d	
13) Furan	0.000		0	N.D.	d	
14) 1,1,2-Trichloro-1,2,2-...	0.000		0	N.D.	d	
15) Methylene Chloride	0.000		0	N.D.	d	
16) Acrolein	0.000		0	N.D.	d	
17) Acrylonitrile	0.000		0	N.D.	d	
18) Iodomethane	0.000		0	N.D.	d	
19) Acetone	0.000		0	N.D.	d	
20) Carbon Disulfide	0.000		0	N.D.	d	
21) t-Butyl Alcohol	0.000		0	N.D.	d	
22) n-Hexane	0.000		0	N.D.	d	
23) Di-isopropyl-ether	0.000		0	N.D.	d	
24) 1,1-Dichloroethene	0.000		0	N.D.	d	
25) Methyl Acetate	0.000		0	N.D.	d	
26) Methyl-t-butyl ether	3.028	73	2428	0.6310	ug/l	73
27) 1,1-Dichloroethane	0.000		0	N.D.	d	
28) trans-1,2-Dichloroethene	0.000		0	N.D.	d	
29) Ethyl-t-butyl ether	0.000		0	N.D.	d	
30) cis-1,2-Dichloroethene	0.000		0	N.D.	d	
31) Bromochloromethane	0.000		0	N.D.	d	
32) 2,2-Dichloropropane	0.000		0	N.D.	d	
33) Ethyl acetate	0.000		0	N.D.	d	
34) 1,4-Dioxane	0.000		0	N.D.	d	
35) 1,1-Dichloropropene	0.000		0	N.D.	d	
36) Chloroform	0.000		0	N.D.	d	
38) Cyclohexane	0.000		0	N.D.	d	
40) 1,2-Dichloroethane	4.473	62	2863	0.7085	ug/l	89
41) 2-Butanone	0.000		0	N.D.	d	
42) 1,1,1-Trichloroethane	0.000		0	N.D.	d	
43) Carbon Tetrachloride	0.000		0	N.D.	d	
44) Vinyl Acetate	0.000		0	N.D.	d	
45) Bromodichloromethane	0.000		0	N.D.	d	
46) Methylcyclohexane	0.000		0	N.D.	d	
47) Dibromomethane	0.000		0	N.D.	d	
48) 1,2-Dichloropropane	0.000		0	N.D.	d	
49) Trichloroethene	0.000		0	N.D.	d	
50) Benzene	4.461	78	5864m	0.6739	ug/l	
51) tert-Amyl methyl ether	0.000		0	N.D.	d	
53) Iso-propylacetate	0.000		0	N.D.	d	
54) Methyl methacrylate	0.000		0	N.D.	d	
55) Dibromochloromethane	0.000		0	N.D.	d	
56) 2-Chloroethylvinylether	0.000		0	N.D.	d	
57) cis-1,3-Dichloropropene	0.000		0	N.D.	d	
58) trans-1,3-Dichloropropene	0.000		0	N.D.	d	
59) Ethyl methacrylate	0.000		0	N.D.	d	
60) 1,1,2-Trichloroethane	0.000		0	N.D.	d	
61) 1,2-Dibromoethane	0.000		0	N.D.	d	
62) 1,3-Dichloropropane	0.000		0	N.D.	d	
63) 4-Methyl-2-Pentanone	0.000		0	N.D.	d	
64) 2-Hexanone	0.000		0	N.D.	d	
65) Tetrachloroethene	0.000		0	N.D.	d	
67) Toluene	0.000		0	N.D.	d	

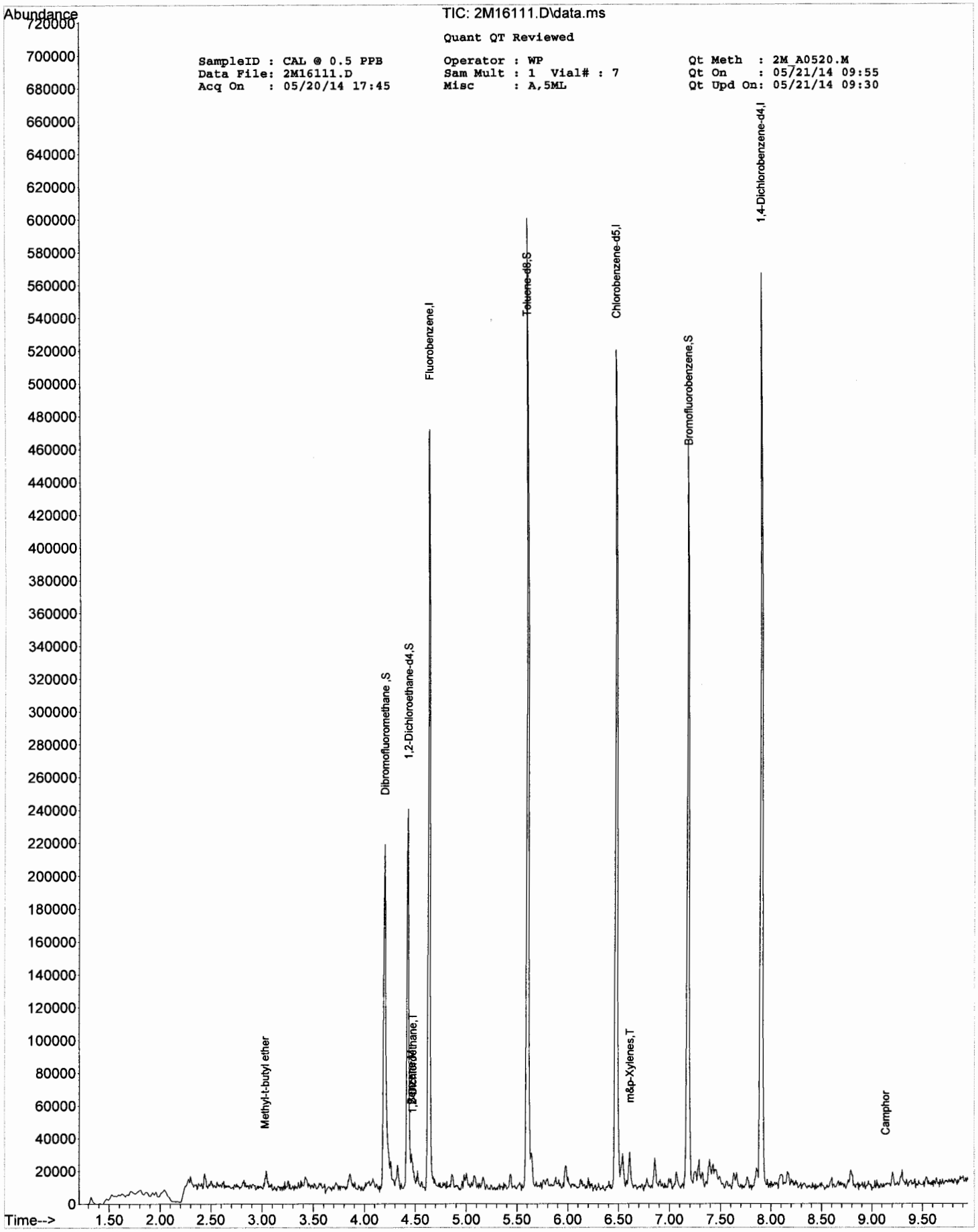
Quantitation Report (QT Reviewed)

SampleID : CAL @ 0.5 PPB Operator : WP Qt Meth : 2M_A0520.M
Data File: 2M16111.D Sam Mult : 1 Vial# : 7 Qt On : 05/21/14 09:55
Acq On : 05/20/14 17:45 Misc : A,5ML Qt Upd On: 05/21/14 09:30

Data Path : G:\GcMsData\2014\GCMS_2\Data\05-20-14\
Qt Path : G:\GcMsData\2014\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	0.000		0	N.D.	d	
69)	Chlorobenzene	0.000		0	N.D.	d	
71)	n-Butyl acrylate	0.000		0	N.D.	d	
72)	n-Amyl acetate	0.000		0	N.D.	d	
73)	Bromoform	0.000		0	N.D.	d	
74)	Ethylbenzene	0.000		0	N.D.	d	
75)	1,1,2,2-Tetrachloroethane	0.000		0	N.D.	d	
77)	Styrene	0.000		0	N.D.	d	
78)	m&p-Xylenes	6.610	106	3871	0.9761	ug/l	79
79)	o-Xylene	0.000		0	N.D.	d	
80)	trans-1,4-Dichloro-2-b...	0.000		0	N.D.	d	
81)	1,3-Dichlorobenzene	0.000		0	N.D.	d	
82)	1,4-Dichlorobenzene	0.000		0	N.D.	d	
83)	1,2-Dichlorobenzene	0.000		0	N.D.	d	
84)	Isopropylbenzene	0.000		0	N.D.	d	
85)	Cyclohexanone	0.000		0	N.D.	d	
86)	Camphene	0.000		0	N.D.	d	
87)	1,2,3-Trichloropropane	0.000		0	N.D.	d	
88)	2-Chlorotoluene	0.000		0	N.D.	d	
89)	p-Ethyltoluene	0.000		0	N.D.	d	
90)	4-Chlorotoluene	0.000		0	N.D.	d	
91)	n-Propylbenzene	0.000		0	N.D.	d	
92)	Bromobenzene	0.000		0	N.D.	d	
93)	1,3,5-Trimethylbenzene	0.000		0	N.D.	d	
94)	Butyl methacrylate	0.000		0	N.D.	d	
95)	t-Butylbenzene	0.000		0	N.D.	d	
96)	1,2,4-Trimethylbenzene	0.000		0	N.D.	d	
97)	sec-Butylbenzene	0.000		0	N.D.	d	
98)	4-Isopropyltoluene	0.000		0	N.D.	d	
99)	n-Butylbenzene	0.000		0	N.D.	d	
100)	p-Diethylbenzene	0.000		0	N.D.	d	
101)	1,2,4,5-Tetramethylben...	0.000		0	N.D.	d	
102)	1,2-Dibromo-3-Chloropr...	0.000		0	N.D.	d	
103)	Camphor	9.132	95	491m	3.0490	ug/l	
104)	Hexachlorobutadiene	0.000		0	N.D.	d	
105)	1,2,4-Trichlorobenzene	0.000		0	N.D.	d	
106)	1,2,3-Trichlorobenzene	0.000		0	N.D.	d	
107)	Naphthalene	0.000		0	N.D.	d	

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


Abundance
TIC: 2M16111.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 0.5 PPB
Data File: 2M16111.D
Acq On : 05/20/14 17:45
Operator : WP
Sam Mult : 1 Vial# : 7
Misc : A,5ML
Qt Meth : 2M_A0520.M
Qt On : 05/21/14 09:55
Qt Upd On: 05/21/14 09:30
Methyl-t-butyl ether
Dibromofluoromethane ,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
m&p-Xylenes,T
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Camphor
Time-->

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 2M17652.D **Instrument:** GCMS 2

Cont Calibration Date/Time 6/17/2014 1:31:00 P Method: EPA 8260C

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Fluorobenzene	1	0	I	4.64	30.00	30	**			0.000	0.00	
Chlorodifluoromethane	1	0		1.32	9.64	20	20	0.1	0.570	0.274	51.82	C1
Dichlorodifluoromethane	1	0		1.32	15.24	20	20		0.375	0.285	23.82	C1
Chloromethane	1	0		1.46	19.22	20	20	0.1	0.299	0.287	3.92	
Bromomethane	1	0		1.79	23.07	20	20	0.1	0.184	0.212	15.34	
Vinyl Chloride	1	0		1.54	19.40	20	20	0.1	0.254	0.247	3.02	
Chloroethane	1	0		1.86	23.00	20	20	0.1	0.171	0.188	15.00	
Trichlorofluoromethane	1	0		2.04	22.97	20	20	0.1	0.399	0.458	14.86	
Ethyl ether	1	0		2.27	18.91	20	20		0.202	0.191	5.47	
Furan	1	0		2.30	22.02	20	20		0.589	0.649	10.11	
1,1,2-Trichloro-1,2,2-trifluoroetha	1	0		2.44	25.23	20	20	0.1	0.214	0.270	26.15	C1
Methylene Chloride	1	0		2.82	23.87	20	20	0.1	0.294	0.351	19.33	
Acrolein	1	0		2.38	100.00	100	20		0.037	0.044	0.00	
Acrylonitrile	1	0		3.03	18.64	20	20		0.100	0.093	6.80	
Iodomethane	1	0		2.58	25.53	20	20		0.448	0.571	27.63	C1
Acetone	1	0		2.50	122.37	100	20	0.1	0.075	0.092	22.37	C1
Carbon Disulfide	1	0		2.63	25.21	20	20	0.1	0.699	0.881	26.04	C1
t-Butyl Alcohol	1	0		2.91	112.03	100	20		0.012	0.014	12.03	
n-Hexane	1	0		3.26	21.86	20	20		0.201	0.219	9.31	
Di-isopropyl-ether	1	0		3.43	24.86	20	20		0.861	1.070	24.31	C1
1,1-Dichloroethene	1	0		2.45	21.92	20	20	0.1	0.382	0.419	9.62	
Methyl Acetate	1	0		2.74	22.29	20	20	0.1	0.273	0.305	11.45	
Methyl-t-butyl ether	1	0		3.04	22.84	20	20	0.1	0.485	0.554	14.19	
1,1-Dichloroethane	1	0		3.39	23.71	20	20	0.2	0.482	0.572	18.56	
trans-1,2-Dichloroethene	1	0		3.05	23.14	20	20	0.1	0.261	0.302	15.68	
Ethyl-t-butyl ether	1	0		3.73	59.47	20	20		0.201	0.599	197.37	C1
cis-1,2-Dichloroethene	1	0		3.86	23.07	20	20	0.1	0.493	0.569	15.36	
Bromochloromethane	1	0		4.04	22.91	20	20		0.257	0.294	14.53	
2,2-Dichloropropane	1	0		3.86	26.71	20	20		0.321	0.428	33.56	C1
Ethyl acetate	1	0		3.91	27.58	20	20		0.272	0.375	37.90	C1
1,4-Dioxane	1	0		5.09	1250.87	1000	20		0.003	0.003	25.09	C1
1,1-Dichloropropene	1	0		4.33	24.13	20	20		0.380	0.459	20.67	C1
Chloroform	1	0		4.09	26.07	20	20	0.2	0.560	0.729	30.37	C1
Dibromofluoromethane	1	0	S	4.20	32.05	30	**		0.369	0.394	6.82	
Cyclohexane	1	0		4.26	21.39	20	20	0.1	0.354	0.378	6.93	
1,2-Dichloroethane-d4	1	0	S	4.43	32.14	30	**		0.205	0.219	7.14	
1,2-Dichloroethane	1	0		4.48	25.69	20	20	0.1	0.557	0.716	28.47	C1
2-Butanone	1	0		3.88	23.68	20	20	0.1	0.115	0.136	18.39	
1,1,1-Trichloroethane	1	0		4.23	23.96	20	20	0.1	0.511	0.612	19.78	
Carbon Tetrachloride	1	0		4.34	22.33	20	20	0.1	0.466	0.520	11.64	
Vinyl Acetate	1	0		3.42	25.52	20	20		0.744	0.949	27.58	C1
Bromodichloromethane	1	0		5.18	25.09	20	20	0.2	0.516	0.647	25.46	C1
Methylcyclohexane	1	0		4.99	20.45	20	20	0.1	0.296	0.302	2.24	
Dibromomethane	1	0		5.09	22.81	20	20		0.316	0.360	14.05	
1,2-Dichloropropane	1	0		5.01	23.87	20	20	0.1	0.314	0.375	19.36	
Trichloroethene	1	0		4.87	22.93	20	20	0.2	0.355	0.407	14.64	
Benzene	1	0		4.47	23.28	20	20	0.5	1.144	1.332	16.42	
tert-Amyl methyl ether	1	0		4.53	22.56	20	20		0.442	0.499	12.81	
Chlorobenzene-d5	1	0	I	6.49	30.00	30	**			0.000	0.00	
Iso-propylacetate	1	0		4.50	20.82	20	20		0.542	0.564	4.11	
Methyl methacrylate	1	0		5.06	23.11	20	20		0.325	0.375	15.57	
Dibromochloromethane	1	0		6.14	20.92	20	20	0.1	0.512	0.535	4.61	

S -Surrogate Compound I -Internal Standard Compound

N/O or N/Q - Not applicable for this run ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 2M17652.D **Instrument:** GCMS 2

Cont Calibration Date/Time 6/17/2014 1:31:00 P Method: EPA 8260C

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.34	16.40	20	20		0.191	0.191	18.02	
cis-1,3-Dichloropropene	1	0		5.45	20.73	20	20	0.2	0.580	0.601	3.64	
trans-1,3-Dichloropropene	1	0		5.78	21.38	20	20	0.1	0.516	0.552	6.92	
Ethyl methacrylate	1	0		5.81	22.61	20	20		0.364	0.412	13.06	
1,1,2-Trichloroethane	1	0		5.89	21.13	20	20	0.1	0.359	0.379	5.65	
1,2-Dibromoethane	1	0		6.22	20.95	20	20	0.1	0.372	0.390	4.75	
1,3-Dichloropropane	1	0		5.99	22.00	20	20		0.601	0.661	9.99	
4-Methyl-2-Pentanone	1	0		5.53	16.68	20	20	0.1	0.300	0.301	16.60	
2-Hexanone	1	0		6.03	17.99	20	20	0.1	0.207	0.224	10.07	
Tetrachloroethene	1	0		5.99	20.44	20	20	0.2	0.380	0.388	2.19	
Toluene-d8	1	0	S	5.62	28.46	30	**		1.236	1.172	5.14	
Toluene	1	0		5.66	20.65	20	20	0.4	0.917	0.947	3.26	
1,1,1,2-Tetrachloroethane	1	0		6.55	21.82	20	20		0.415	0.453	9.08	
Chlorobenzene	1	0		6.51	20.14	20	20	0.5	1.092	1.100	0.68	
1,4-Dichlorobenzene-d4	1	0	I	7.92	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		6.80	16.71	20	20		1.043	1.061	16.47	
n-Amyl acetate	1	0		6.93	17.32	20	20		0.854	0.921	13.42	
Bromoform	1	0		7.01	18.12	20	20	0.1	0.647	0.586	9.40	
Ethylbenzene	1	0		6.55	20.19	20	20	0.1	0.603	0.608	0.93	
1,1,2,2-Tetrachloroethane	1	0		7.26	18.77	20	20	0.1	0.620	0.582	6.14	
Bromofluorobenzene	1	0	S	7.20	29.31	30	**		0.871	0.851	2.31	
Styrene	1	0		6.87	21.28	20	20	0.3	1.640	1.745	6.39	
m&p-Xylenes	1	0		6.63	40.50	40	20	0.1	0.931	0.942	1.26	
o-Xylene	1	0		6.87	20.53	20	20	0.3	0.952	0.977	2.64	
trans-1,4-Dichloro-2-butene	1	0		7.29	21.75	20	20		0.343	0.373	8.74	
1,3-Dichlorobenzene	1	0		7.89	19.74	20	20	0.6	1.338	1.320	1.31	
1,4-Dichlorobenzene	1	0		7.94	19.25	20	20	0.5	1.403	1.351	3.76	
1,2-Dichlorobenzene	1	0		8.19	19.10	20	20	0.4	1.279	1.221	4.50	
Isopropylbenzene	1	0		7.08	20.45	20	20		2.279	2.330	2.26	
Cyclohexanone	1	0		7.16	118.19	100	20		0.017	0.020	18.19	
Camphene	1	0		7.27	18.19	20	20		0.530	0.482	9.07	
1,2,3-Trichloropropane	1	0		7.30	20.54	20	20		0.787	0.809	2.69	
2-Chlorotoluene	1	0		7.41	20.54	20	20		1.472	1.512	2.72	
p-Ethyltoluene	1	0		7.40	20.88	20	20		2.271	2.371	4.38	
4-Chlorotoluene	1	0		7.48	21.97	20	20		1.516	1.665	9.85	
n-Propylbenzene	1	0		7.34	19.57	20	20		2.638	2.581	2.14	
Bromobenzene	1	0		7.31	20.90	20	20		1.671	1.746	4.48	
1,3,5-Trimethylbenzene	1	0		7.43	19.51	20	20		1.836	1.791	2.45	
Butyl methacrylate	1	0		7.45	21.96	20	20		0.863	0.947	9.79	
t-Butylbenzene	1	0		7.65	19.26	20	20		1.739	1.675	3.68	
1,2,4-Trimethylbenzene	1	0		7.67	20.31	20	20		1.952	1.982	1.56	
sec-Butylbenzene	1	0		7.79	18.19	20	20		1.889	1.718	9.04	
4-Isopropyltoluene	1	0		7.87	18.81	20	20		1.688	1.588	5.95	
n-Butylbenzene	1	0		8.13	20.00	20	20		1.771	1.771	0.00	
p-Diethylbenzene	1	0		8.11	19.29	20	20		0.980	0.945	3.53	
1,2,4,5-Tetramethylbenzene	1	0		8.62	16.08	20	20		1.439	1.440	19.62	
1,2-Dibromo-3-Chloropropane	1	0		8.69	16.97	20	20	0.05	0.134	0.114	15.15	
Camphor	1	0		9.17	117.60	200	20		0.034	0.028	41.20	C1
Hexachlorobutadiene	1	0		9.32	16.07	20	20		0.602	0.484	19.63	
1,2,4-Trichlorobenzene	1	0		9.23	18.03	20	20	0.2	0.711	0.641	9.84	
1,2,3-Trichlorobenzene	1	0		9.56	17.97	20	20		0.554	0.497	10.15	
Naphthalene	1	0		9.40	15.06	20	20		0.998	0.913	24.71	C1

S -Surrogate Compound I -Internal Standard Compound

N/O or N/Q - Not applicable for this run ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Quantitation Report (QT Reviewed)

SampleID : CAL @ 20 PPB
Data File: 2M17652.D
Acq On : 06/17/14 13:31

Operator : WP
Sam Mult : 1 Vial# : 5
Misc : A,5ML

Qt Meth : 2M_A0520.M
Qt On : 06/17/14 13:43
Qt Upd On: 05/21/14 10:07

Data Path : G:\GcMsData\2014\GCMS_2\Data\06-17-14\
Qt Path : G:\GcMsData\2014\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.641	96	198923	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.489	117	184635	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.921	152	119024	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.201	111	78361	32.05	ug/l	0.00
Spiked Amount 30.000			Recovery = 106.83%			
39) 1,2-Dichloroethane-d4	4.430	67	43586	32.14	ug/l	0.00
Spiked Amount 30.000			Recovery = 107.13%			
66) Toluene-d8	5.616	98	216404	28.46	ug/l	0.00
Spiked Amount 30.000			Recovery = 94.87%			
76) Bromofluorobenzene	7.199	174	101290	29.31	ug/l	0.00
Spiked Amount 30.000			Recovery = 97.70%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.325	51	36393	9.6355	ug/l	41
6) Dichlorodifluoromethane	1.325	85	37856m	15.2362	ug/l	
7) Chloromethane	1.458	50	38105	19.2155	ug/l	87
8) Bromomethane	1.791	94	28110	23.0675	ug/l	87
9) Vinyl Chloride	1.541	62	32695	19.3959	ug/l	98
10) Chloroethane	1.858	64	24995	23.0003	ug/l	99
11) Trichlorofluoromethane	2.041	101	60771	22.9714	ug/l	87
12) Ethyl ether	2.275	59	25367m	18.9066	ug/l	
13) Furan	2.305	39	86055	22.0227	ug/l	99
14) 1,1,2-Trichloro-1,2,2-...	2.443	101	35806m	25.2291	ug/l	
15) Methylene Chloride	2.823	84	46553m	23.8657	ug/l	
16) Acrolein	2.377	56	29112	100.0007	ug/l	94
17) Acrylonitrile	3.033	53	12397	18.6397	ug/l	98
18) Iodomethane	2.576	142	75761m	25.5254	ug/l	
19) Acetone	2.498	43	61186	122.3715	ug/l	86
20) Carbon Disulfide	2.630	76	116891	25.2072	ug/l	100
21) t-Butyl Alcohol	2.913	59	9067	112.0348	ug/l	76
22) n-Hexane	3.256	57	29075	21.8629	ug/l	80
23) Di-isopropyl-ether	3.431	45	141935	24.8622	ug/l	98
24) 1,1-Dichloroethene	2.449	61	55506	21.9232	ug/l	91
25) Methyl Acetate	2.744	43	40419	22.2901	ug/l	100
26) Methyl-t-butyl ether	3.039	73	73462	22.8382	ug/l	88
27) 1,1-Dichloroethane	3.388	63	75844m	23.7122	ug/l	
28) trans-1,2-Dichloroethene	3.045	96	40030	23.1363	ug/l	87
29) Ethyl-t-butyl ether	3.732	59	79396	59.4743	ug/l	96
30) cis-1,2-Dichloroethene	3.864	61	75459	23.0724	ug/l	88
31) Bromochloromethane	4.039	49	39021	22.9051	ug/l	89
32) 2,2-Dichloropropane	3.864	77	56781	26.7128	ug/l	92
33) Ethyl acetate	3.912	43	49668	27.5795	ug/l	95
34) 1,4-Dioxane	5.092	88	21775	1250.8716	ug/l	68
35) 1,1-Dichloropropene	4.334	75	60808	24.1331	ug/l	94
36) Chloroform	4.093	83	96738	26.0745	ug/l	81
38) Cyclohexane	4.261	56	50142	21.3870	ug/l	98
40) 1,2-Dichloroethane	4.478	62	94889	25.6934	ug/l	98
41) 2-Butanone	3.876	43	18047	23.6784	ug/l	92
42) 1,1,1-Trichloroethane	4.225	97	81120m	23.9554	ug/l	
43) Carbon Tetrachloride	4.340	117	68996	22.3280	ug/l	93
44) Vinyl Acetate	3.425	43	125833	25.5154	ug/l	100
45) Bromodichloromethane	5.176	83	85807	25.0921	ug/l	93
46) Methylcyclohexane	4.990	83	40112	20.4484	ug/l	96
47) Dibromomethane	5.092	174	47719	22.8103	ug/l	91
48) 1,2-Dichloropropane	5.014	63	49769	23.8710	ug/l	94
49) Trichloroethene	4.869	130	53930	22.9287	ug/l	90
50) Benzene	4.472	78	176620	23.2838	ug/l	100
51) tert-Amyl methyl ether	4.532	73	66145	22.5621	ug/l	96
53) Iso-propylacetate	4.496	43	69472	20.8220	ug/l	75
54) Methyl methacrylate	5.062	41	46212	23.1132	ug/l	90
55) Dibromochloromethane	6.139	129	65866	20.9211	ug/l	86
56) 2-Chloroethylvinylether	5.345	63	23512	16.3965	ug/l	88
57) cis-1,3-Dichloropropene	5.447	75	74016	20.7279	ug/l	96
58) trans-1,3-Dichloropropene	5.778	75	67939	21.3835	ug/l	93
59) Ethyl methacrylate	5.808	41	50702	22.6128	ug/l	87
60) 1,1,2-Trichloroethane	5.893	97	46624	21.1296	ug/l	90
61) 1,2-Dibromoethane	6.224	107	48023	20.9501	ug/l	91
62) 1,3-Dichloropropane	5.995	76	81301	21.9975	ug/l	98
63) 4-Methyl-2-Pentanone	5.531	43	37069	16.6801	ug/l	78
64) 2-Hexanone	6.025	43	27605	17.9870	ug/l	96
65) Tetrachloroethene	5.989	164	47778	20.4371	ug/l	99
67) Toluene	5.658	92	116584	20.6525	ug/l	97

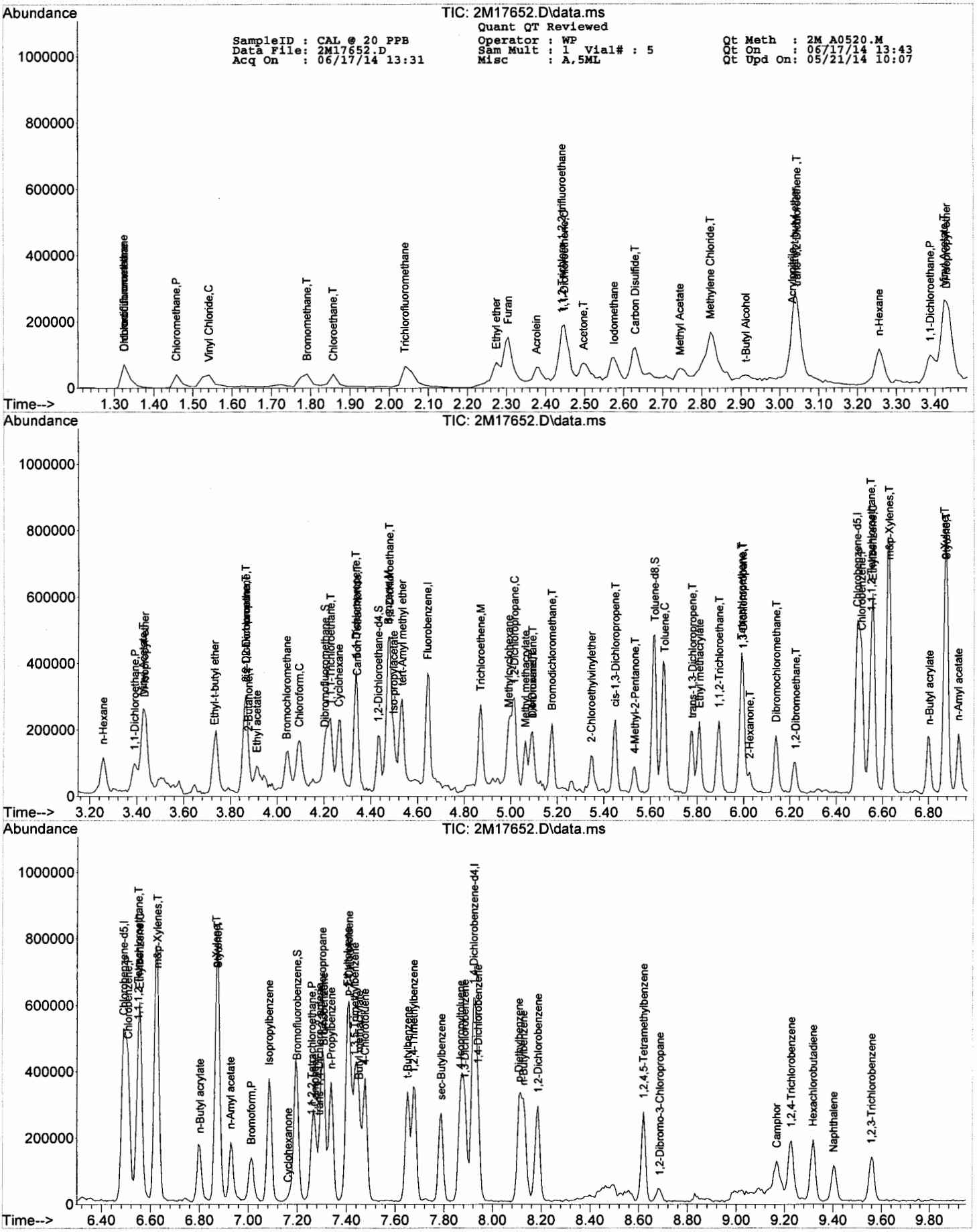
Quantitation Report (QT Reviewed)

SampleID : CAL @ 20 PPB Operator : WP Qt Meth : 2M_A0520.M
Data File: 2M17652.D Sam Mult : 1 Vial# : 5 Qt On : 06/17/14 13:43
Acq On : 06/17/14 13:31 Misc : A,5ML Qt Upd On: 05/21/14 10:07

Data Path : G:\GcMsData\2014\GCMS_2\Data\06-17-14\
Qt Path : G:\GcMsData\2014\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.549	133	55752	21.8155	ug/l	74
69)	Chlorobenzene	6.507	112	135371	20.1367	ug/l	95
71)	n-Butyl acrylate	6.802	55	84203	16.7058	ug/l	94
72)	n-Amyl acetate	6.928	43	73066	17.3163	ug/l	84
73)	Bromoform	7.012	173	46490	18.1208	ug/l	91
74)	Ethylbenzene	6.555	106	48264	20.1854	ug/l	83
75)	1,1,2,2-Tetrachloroethane	7.259	83	46201	18.7715	ug/l	94
77)	Styrene	6.874	104	138480	21.2773	ug/l	95
78)	m&p-Xylenes	6.627	106	149545	40.5021	ug/l	98
79)	o-Xylene	6.868	106	77551	20.5274	ug/l	96
80)	trans-1,4-Dichloro-2-b...	7.289	53	29583	21.7488	ug/l	99
81)	1,3-Dichlorobenzene	7.885	146	104748	19.7376	ug/l	89
82)	1,4-Dichlorobenzene	7.939	146	107163	19.2478	ug/l	95
83)	1,2-Dichlorobenzene	8.186	146	96920	19.0996	ug/l	90
84)	Isopropylbenzene	7.085	105	184902	20.4518	ug/l	96
85)	Cyclohexanone	7.163	55	7849	118.1868	ug/l	89
86)	Camphene	7.271	93	38219	18.1855	ug/l	98
87)	1,2,3-Trichloropropane	7.301	75	64165	20.5376	ug/l	97
88)	2-Chlorotoluene	7.410	91	120008	20.5433	ug/l	96
89)	p-Ethyltoluene	7.404	105	188122	20.8762	ug/l	78
90)	4-Chlorotoluene	7.476	91	132106	21.9699	ug/l	96
91)	n-Propylbenzene	7.337	91	204831	19.5723	ug/l	96
92)	Bromobenzene	7.307	77	138518	20.8961	ug/l	94
93)	1,3,5-Trimethylbenzene	7.434	105	142105	19.5091	ug/l	83
94)	Butyl methacrylate	7.452	41	75176	21.9586	ug/l	85
95)	t-Butylbenzene	7.650	119	132895	19.2637	ug/l	89
96)	1,2,4-Trimethylbenzene	7.674	105	157289	20.3110	ug/l	87
97)	sec-Butylbenzene	7.789	105	136312	18.1917	ug/l	95
98)	4-Isopropyltoluene	7.867	119	125976	18.8099	ug/l	93
99)	n-Butylbenzene	8.126	91	140517	19.9999	ug/l	91
100)	p-Diethylbenzene	8.108	119	74992	19.2943	ug/l	92
101)	1,2,4,5-Tetramethylben...	8.619	119	114256m	16.0761	ug/l	
102)	1,2-Dibromo-3-Chloropr...	8.686	157	9012	16.9701	ug/l	83
103)	Camphor	9.167	95	22125	117.6047	ug/l	94
104)	Hexachlorobutadiene	9.318	225	38386m	16.0734	ug/l	
105)	1,2,4-Trichlorobenzene	9.227	180	50852	18.0316	ug/l	97
106)	1,2,3-Trichlorobenzene	9.559	180	39474m	17.9698	ug/l	
107)	Naphthalene	9.402	128	72445	15.0574	ug/l	100

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


Abundance
TIC: 2M17652.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 20 PPB
Data File: 2M17652.D
Acq On : 06/17/14 13:31
Operator : WP
Sam Mult : 1 Vial# : 5
Misc : A,5ML
Qt Meth : 2M_A0520.M
Qt On : 06/17/14 13:43
Qt Upd On: 05/21/14 10:07
Time-->

GC/MS Volatile Data
Raw QC Data

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 2
Data File: 2M16102.D
Analysis Date: 05/20/14 15:14
Method: EPA 8260C

Tune Scan/Time Range: Average of 4.547 to 4.606 min

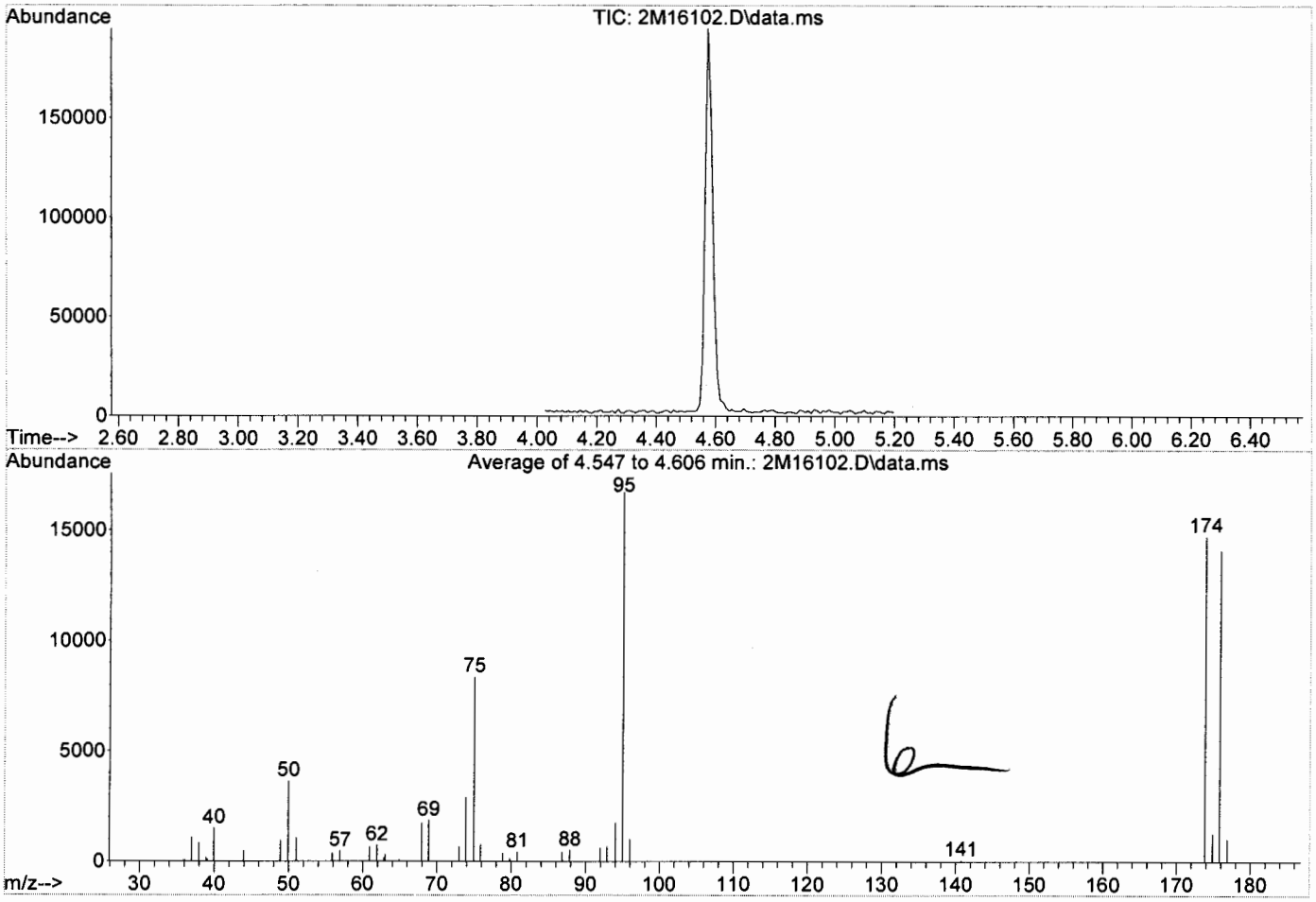
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	21.8	3644	PASS
75	95	30	60	50.0	8367	PASS
95	95	100	100	100.0	16746	PASS
96	95	5	9	6.0	1012	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	88.2	14772	PASS
175	174	5	9	8.8	1301	PASS
176	174	95	101	95.6	14121	PASS
177	176	5	9	7.3	1033	PASS

Data File	Sample Number	Analysis Date:
2M16103.D	20 PPB	05/20/14 15:30
2M16104.D	BLK	05/20/14 15:50
2M16105.D	CAL @ 20 PPB	05/20/14 16:06
2M16106.D	BLK	05/20/14 16:22
2M16111.D	CAL @ 0.5 PPB	05/20/14 17:45
2M16112.D	CAL @ 1 PPB	05/20/14 18:01
2M16113.D	CAL @ 5 PPB	05/20/14 18:17
2M16114.D	CAL @ 10 PPB	05/20/14 18:33
2M16115.D	CAL @ 20 PPB	05/20/14 18:49
2M16116.D	BLK	05/20/14 19:05
2M16117.D	CAL @ 50 PPB	05/20/14 19:21
2M16118.D	CAL @ 100 PPB	05/20/14 19:37
2M16119.D	BLK	05/20/14 19:53
2M16120.D	BLK	05/20/14 20:09
2M16121.D	CAL @250 PPB	05/20/14 20:25
2M16122.D	BLK	05/20/14 20:41
2M16123.D	BLK	05/20/14 20:56
2M16124.D	CAL @ 500 PPB	05/20/14 21:12
2M16125.D	BLK	05/20/14 21:28
2M16126.D	BLK	05/20/14 21:44
2M16127.D	BLK	05/20/14 22:00
2M16128.D	BLK	05/20/14 22:16
2M16129.D	ICV	05/20/14 22:32
2M16130.D	ICV	05/20/14 22:48
2M16131.D	BLK	05/20/14 23:04
2M16132.D	DAILY BLANK	05/20/14 23:20
2M16133.D	DAILY BLANK	05/20/14 23:36
2M16134.D	AC78679-001	05/20/14 23:52
2M16135.D	AC78677-001	05/21/14 00:08
2M16136.D	AC78740-004	05/21/14 00:24
2M16137.D	AC78740-003	05/21/14 00:40
2M16138.D	AC78629-005	05/21/14 00:56
2M16139.D	AC78682-003	05/21/14 01:12
2M16140.D	BLK	05/21/14 01:28
2M16141.D	AC78716-002(400u	05/21/14 01:43
2M16142.D	MBS35793	05/21/14 01:59
2M16143.D	MBS35794	05/21/14 02:15
2M16144.D	MBS35795	05/21/14 02:31
2M16146.D	STD	05/21/14 09:19
2M16147.D	STD	05/21/14 09:35
2M16148.D	BLK	05/21/14 09:51
2M16149.D	AC78732-001	05/21/14 10:16
2M16150.D	AC78732-016	05/21/14 10:33
2M16151.D	AC78722-009	05/21/14 10:50
2M16152.D	AC78732-009	05/21/14 11:06
2M16153.D	AC78732-008	05/21/14 11:22
2M16154.D	AC78732-010	05/21/14 11:38
2M16155.D	AC78732-011	05/21/14 11:54

Data Path : G:\GcMsData\2014\GCMS_2\Data\05-20-14\
Data File : 2M16102.D
Acq On : 20 May 2014 15:14
Operator : WP
Sample : BFB TUNE
Misc : A,5ML
ALS Vial : 4 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2014\GCMS_2\MethodQt\2M_A0520.M
Title : @GCMS_2,ug,624,8260
Last Update : Wed May 21 10:02:31 2014



Spectrum Information: Average of 4.547 to 4.606 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.8	3644	PASS
75	95	30	60	50.0	8367	PASS
95	95	100	100	100.0	16746	PASS
96	95	5	9	6.0	1012	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	88.2	14772	PASS
175	174	5	9	8.8	1301	PASS
176	174	95	101	95.6	14121	PASS
177	176	5	9	7.3	1033	PASS

Form 5

Tune Name: BFB TUNE **Data File:** 2M17649.D
Instrument: GCMS 2 **Analysis Date:** 06/17/14 12:49
Method: EPA 8260C
Tune Scan/Time Range: Average of 4.508 to 4.528 min

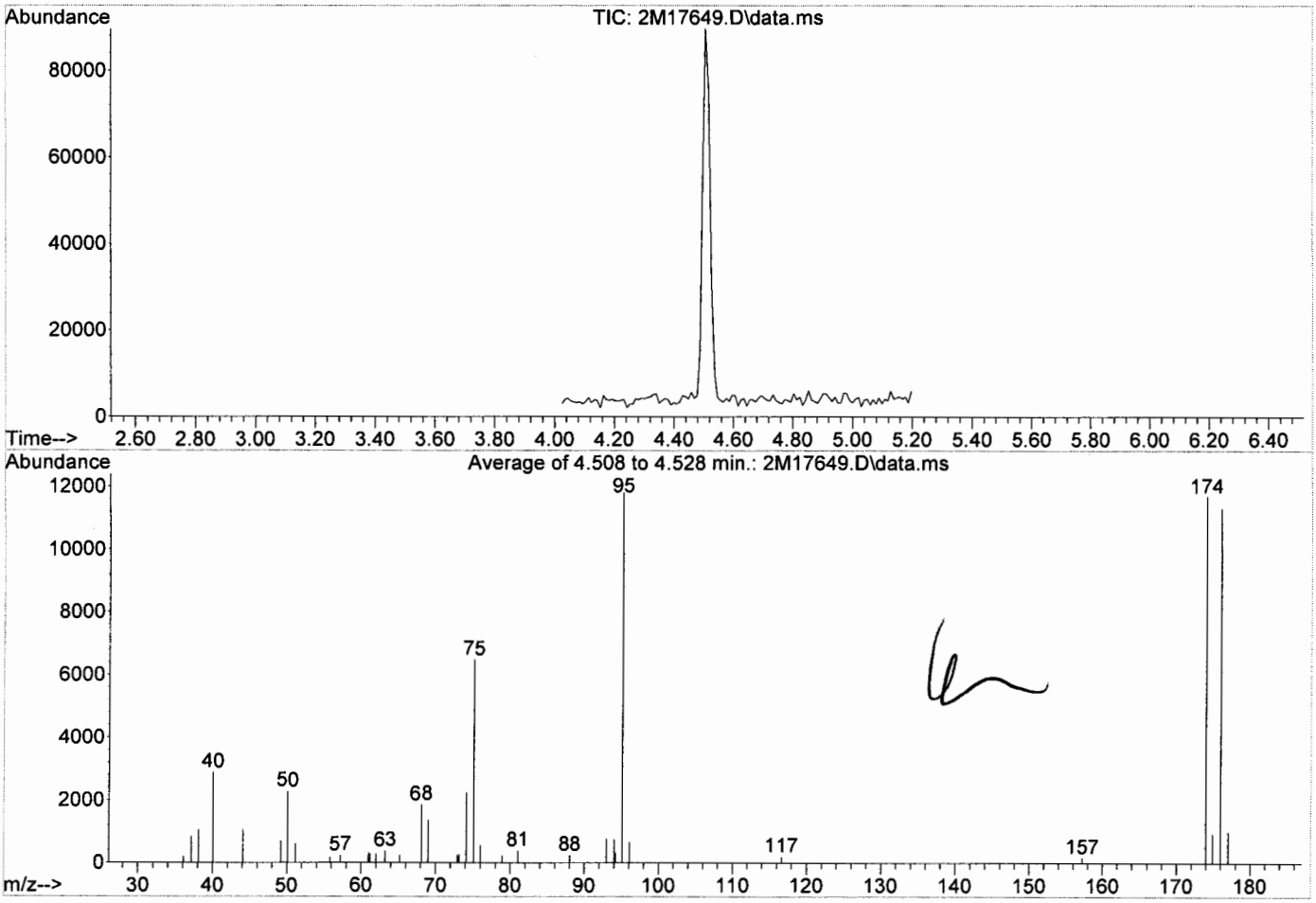
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	19.3	2283	PASS
75	95	30	60	54.9	6477	PASS
95	95	100	100	100.0	11802	PASS
96	95	5	9	5.6	666	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	99.1	11698	PASS
175	174	5	9	8.1	944	PASS
176	174	95	101	96.6	11306	PASS
177	176	5	9	8.9	1002	PASS

Data File	Sample Number	Analysis Date:
2M17650.D	20 PPB	06/17/14 12:59
2M17651.D	BLK	06/17/14 13:15
2M17652.D	CAL @ 20 PPB	06/17/14 13:31
2M17653.D	BLK	06/17/14 13:47
2M17654.D	BLK	06/17/14 14:03
2M17655.D	BLK	06/17/14 14:19
2M17656.D	BLK	06/17/14 14:41
2M17657.D	BLK	06/17/14 14:57
2M17658.D	BLK	06/17/14 15:13
2M17659.D	BLK	06/17/14 15:29
2M17660.D	BLKBLK	06/17/14 15:45
2M17661.D	BLKBLK	06/17/14 16:00
2M17662.D	DAILY BLANK	06/17/14 16:15
2M17663.D	MBS36472	06/17/14 16:31
2M17664.D	AC79174-025(T)	06/17/14 16:47
2M17665.D	AC79174-026(T)	06/17/14 17:03
2M17666.D	BLK	06/17/14 17:19
2M17667.D	BLK	06/17/14 17:35
2M17668.D	79225-001	06/17/14 17:51
2M17669.D	AC79162-017	06/17/14 18:07
2M17670.D	AC79170-001	06/17/14 18:23
2M17671.D	AC79123-023(MS)	06/17/14 18:39
2M17672.D	AC79123-023(MSD	06/17/14 18:55
2M17673.D	AC79132-002(T)	06/17/14 19:11
2M17674.D	EF-1-V-188693(061	06/17/14 19:27
2M17675.D	AC79132-004(T)	06/17/14 19:43
2M17676.D	AC79132-006(T)	06/17/14 20:03
2M17677.D	AC79132-008(T)	06/17/14 20:19
2M17678.D	AC79197-001(T)	06/17/14 20:35
2M17679.D	AC79197-002(T)	06/17/14 20:51
2M17680.D	AC79197-003(T)	06/17/14 21:07
2M17681.D	AC79207-001(T)	06/17/14 21:23
2M17682.D	AC79132-002(T:M	06/17/14 21:39
2M17683.D	AC79132-002(T:M	06/17/14 21:55
2M17684.D	MBS36480	06/17/14 22:11
2M17685.D	BLK	06/17/14 22:27
2M17686.D	AC79170-002	06/17/14 22:43
2M17687.D	AC79170-003	06/17/14 22:59
2M17688.D	AC79188-006	06/17/14 23:15
2M17689.D	AC79188-007	06/17/14 23:31
2M17690.D	AC79188-008	06/17/14 23:47
2M17691.D	AC79188-009	06/18/14 00:03
2M17692.D	BLK	06/18/14 00:18
2M17693.D	BLK	06/18/14 00:34
2M17694.D	BLK	06/18/14 00:50
2M17695.D	MBS36481	06/18/14 01:06
2M17696.D	BLK	06/18/14 01:22
2M17697.D	AC79175-003	06/18/14 01:38
2M17698.D	AC79175-005	06/18/14 01:54
2M17699.D	AC79175-007	06/18/14 02:10
2M17700.D	BLK	06/18/14 02:25
2M17701.D	AC79175-001(200X	06/18/14 02:41
2M17702.D	AC79175-006(200X	06/18/14 02:57
2M17703.D	79135-006(50X)	06/18/14 03:13
2M17704.D	79135-007(50X)	06/18/14 03:29
2M17705.D	79135-004(50X)	06/18/14 03:46
2M17706.D	79135-003(20X)	06/18/14 04:02
2M17707.D	AC79175-002(20X)	06/18/14 04:18
2M17708.D	AC79175-004(5X)	06/18/14 04:34
2M17709.D	MBS36482	06/18/14 04:49
2M17710.D	AC79195-002(MS)	06/18/14 05:05
2M17711.D	AC79195-002(MSD	06/18/14 05:22

Data Path : G:\GcMsData\2014\GCMS_2\Data\06-17-14\
Data File : 2M17649.D
Acq On : 17 Jun 2014 12:49
Operator : WP
Sample : BFB TUNE
Misc : A,5ML
ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2014\GCMS_2\MethodQt\2M_A0520.M
Title : @GCMS_2,ug,624,8260
Last Update : Wed May 21 10:02:31 2014



Spectrum Information: Average of 4.508 to 4.528 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.3	2283	PASS
75	95	30	60	54.9	6477	PASS
95	95	100	100	100.0	11802	PASS
96	95	5	9	5.6	666	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	99.1	11698	PASS
175	174	5	9	8.1	944	PASS
176	174	95	101	96.6	11306	PASS
177	176	5	9	8.9	1002	PASS

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 2M17662.D
Analysis Date: 06/17/14 16:15
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
95-63-6	1,2,4-Trimethylbenzene	1.0	U	104-51-8	n-Butylbenzene	1.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U	103-65-1	n-Propylbenzene	1.0	U
99-87-6	4-Isopropyltoluene	1.0	U	95-47-6	o-Xylene	1.0	U
71-43-2	Benzene	0.50	U	135-98-8	sec-Butylbenzene	1.0	U
100-41-4	Ethylbenzene	1.0	U	98-06-6	t-Butylbenzene	1.0	U
98-82-8	Isopropylbenzene	1.0	U	108-88-3	Toluene	1.0	U
136777612	m&p-Xylenes	1.0	U	79-01-6	Trichloroethene	1.0	U
1634-04-4	Methyl-t-butyl ether	0.50	U				

Worksheet #: 306528

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

4061226 0086

SampleID : DAILY BLANK Operator : WP Qt Meth : 2M_A0520.M
Data File: 2M17662.D Sam Mult : 1 Vial# : 15 Qt On : 06/17/14 16:26
Acq On : 06/17/14 16:15 Misc : A,5ML Qt Upd On: 05/21/14 10:07

Data Path : G:\GcMsData\2014\GCMS_2\Data\06-17-14\
Qt Path : G:\GcMsData\2014\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.648	96	166600	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.496	117	160727	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.928	152	98797	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.208	111	75456	36.84	ug/l	0.00
Spiked Amount 30.000			Recovery = 122.80%			
39) 1,2-Dichloroethane-d4	4.437	67	41243	36.31	ug/l	0.00
Spiked Amount 30.000			Recovery = 121.03%			
66) Toluene-d8	5.617	98	183310	27.69	ug/l	0.00
Spiked Amount 30.000			Recovery = 92.30%			
76) Bromofluorobenzene	7.200	174	77825	27.13	ug/l	0.00
Spiked Amount 30.000			Recovery = 90.43%			

Target Compounds Qvalue

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

lcw

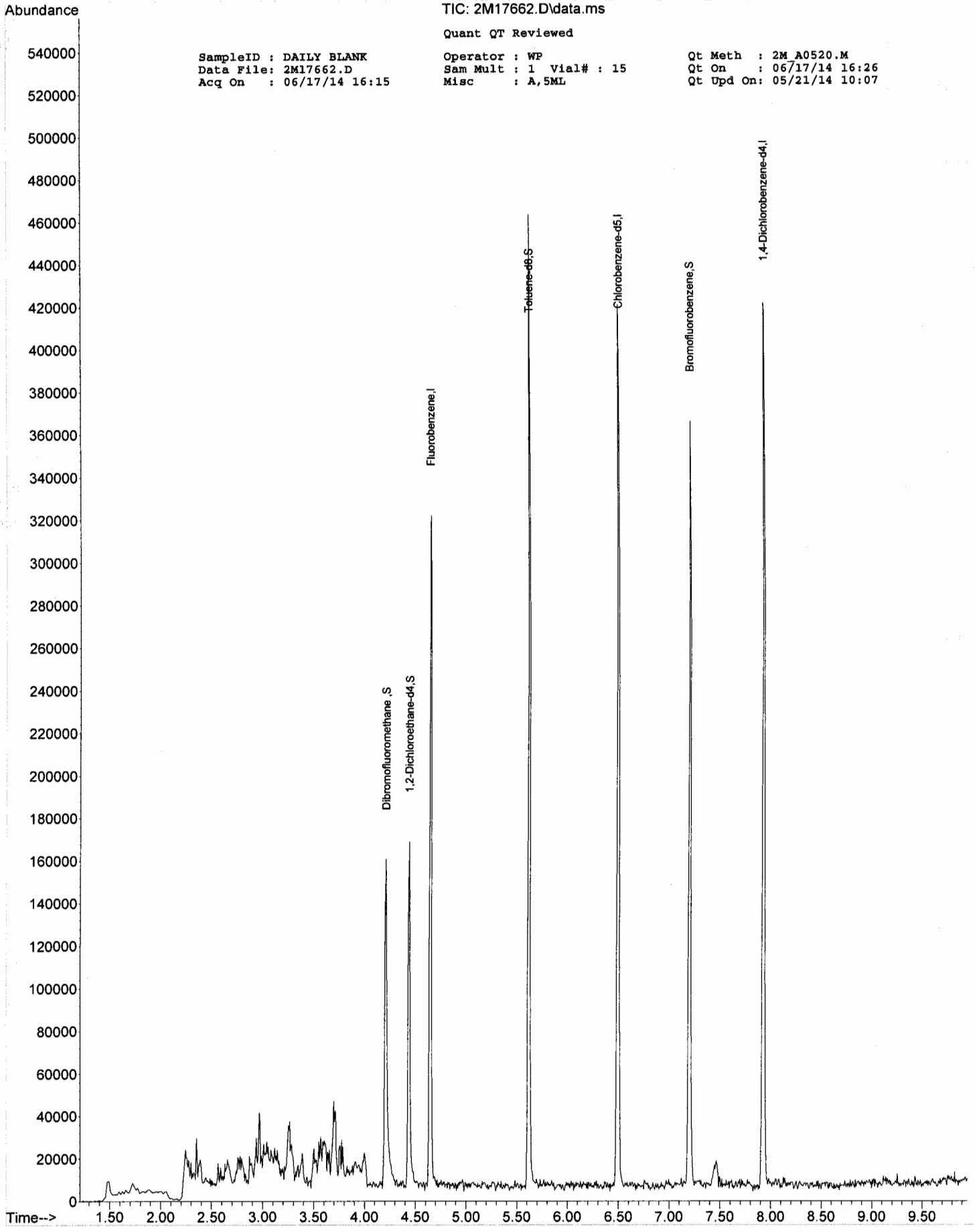
TIC: 2M17662.D\data.ms

Quant QT Reviewed

SampleID : DAILY BLANK
Data File: 2M17662.D
Acq On : 06/17/14 16:15

Operator : WP
Sam Mult : 1 Vial# : 15
Misc : A,5ML

Qt Meth : 2M_A0520.M
Qt On : 06/17/14 16:26
Qt Upd On: 05/21/14 10:07



Form3
Recovery Data
QC Batch: MBS36472

Data File	Sample ID:	Analysis Date
Spike or Dup: 2M17663.D	MBS36472	6/17/2014 4:31:00 PM
Non Spike(If applicable):		
Inst Blank(If applicable):		

Method: 8260C | Matrix: Aqueous | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Vinyl Chloride	1	17.6257	0	20	88	20	130
1,1-Dichloroethene	1	22.354	0	20	112	50	130
1,1-Dichloroethane	1	20.468	0	20	102	50	130
Chloroform	1	19.9001	0	20	100	50	130
1,2-Dichloroethane	1	21.5724	0	20	108	50	130
2-Butanone	1	18.3852	0	20	92	20	130
Carbon Tetrachloride	1	21.6327	0	20	108	50	130
Trichloroethene	1	19.5842	0	20	98	50	130
Benzene	1	19.7241	0	20	99	50	130
Tetrachloroethene	1	17.6222	0	20	88	50	130
Toluene	1	16.7672	0	20	84	50	130
Chlorobenzene	1	16.8004	0	20	84	50	130
1,4-Dichlorobenzene	1	15.6837	0	20	78	50	130
1,2-Dichlorobenzene	1	14.9105	0	20	75	50	130
n-Propylbenzene	1	16.6432	0	20	83	50	130
sec-Butylbenzene	1	16.1888	0	20	81	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Quantitation Report (QT Reviewed)

SampleID : MBS
Data File: 2M17663.D
Acq On : 06/17/14 16:31

Operator : WP
Sam Mult : 1 Vial# : 16
Misc : A,5ML

Qt Meth : 2M_A0520.M
Qt On : 06/17/14 16:54
Qt Upd On: 05/21/14 10:07

Data Path : G:\GcMsData\2014\GCMS_2\Data\06-17-14\
Qt Path : G:\GcMsData\2014\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.646	96	197181	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.494	117	189128	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.927	152	119297	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.206	111	80868	33.36	ug/l	0.00
Spiked Amount 30.000			Recovery =	111.20%		
39) 1,2-Dichloroethane-d4	4.435	67	43513	32.37	ug/l	0.00
Spiked Amount 30.000			Recovery =	107.90%		
66) Toluene-d8	5.615	98	221163	28.39	ug/l	0.00
Spiked Amount 30.000			Recovery =	94.63%		
76) Bromofluorobenzene	7.198	174	99528	28.73	ug/l	0.00
Spiked Amount 30.000			Recovery =	95.77%		
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.326	51	92478	24.7010	ug/l	78
6) Dichlorodifluoromethane	1.326	85	39775	16.1500	ug/l	86
7) Chloromethane	1.459	50	42453	21.5973	ug/l	77
8) Bromomethane	1.792	94	24093	19.9458	ug/l	72
9) Vinyl Chloride	1.542	62	29451	17.6257	ug/l	93
10) Chloroethane	1.859	64	25215	23.4113	ug/l	100
11) Trichlorofluoromethane	2.042	101	57810	22.0452	ug/l	86
12) Ethyl ether	2.280	59	31880	23.9708	ug/l	90
13) Furan	2.304	39	73428	18.9573	ug/l	98
14) 1,1,2-Trichloro-1,2,2-...	2.443	101	33728	23.9748	ug/l	90
15) Methylene Chloride	2.828	84	36726	18.9942	ug/l	97
16) Acrolein	2.382	56	24636	85.3259	ug/l	92
17) Acrylonitrile	3.033	53	11164	16.9341	ug/l	80
18) Iodomethane	2.581	142	56707	19.2745	ug/l	96
19) Acetone	2.503	43	50390	101.6699	ug/l	90
20) Carbon Disulfide	2.635	76	97303	21.1684	ug/l	100
21) t-Butyl Alcohol	2.918	59	6622	82.5465	ug/l	81
22) n-Hexane	3.255	57	26946	20.4410	ug/l	82
23) Di-isopropyl-ether	3.436	45	111435	19.6921	ug/l	96
24) 1,1-Dichloroethene	2.455	61	56101	22.3540	ug/l	94
25) Methyl Acetate	2.750	43	29152	16.2186	ug/l	100
26) Methyl-t-butyl ether	3.045	73	54582	17.1186	ug/l	88
27) 1,1-Dichloroethane	3.394	63	64894	20.4680	ug/l	95
28) trans-1,2-Dichloroethene	3.051	96	32081	18.7058	ug/l	82
29) Ethyl-t-butyl ether	3.737	59	60806	45.9512	ug/l	96
30) cis-1,2-Dichloroethene	3.869	61	73671m	22.7247	ug/l	
31) Bromochloromethane	4.044	49	31726	18.7875	ug/l	98
32) 2,2-Dichloropropane	3.863	77	49817	23.6436	ug/l	93
33) Ethyl acetate	3.911	43	35416	19.8394	ug/l	94
34) 1,4-Dioxane	5.097	88	13643	790.6502	ug/l	90
35) 1,1-Dichloropropene	4.339	75	52523	21.0292	ug/l	96
36) Chloroform	4.092	83	73184	19.9001	ug/l	89
38) Cyclohexane	4.267	56	46451	19.9877	ug/l	97
40) 1,2-Dichloroethane	4.483	62	78972	21.5724	ug/l	95
41) 2-Butanone	3.875	43	13890	18.3852	ug/l	99
42) 1,1,1-Trichloroethane	4.231	97	71341	21.2537	ug/l	99
43) Carbon Tetrachloride	4.339	117	66262	21.6327	ug/l	98
44) Vinyl Acetate	3.430	43	99271	20.3072	ug/l	100
45) Bromodichloromethane	5.182	83	69520	20.5090	ug/l	92
46) Methylcyclohexane	4.995	83	39839	20.4887	ug/l	91
47) Dibromomethane	5.091	174	41999	20.2534	ug/l	91
48) 1,2-Dichloropropane	5.019	63	36824	17.8182	ug/l	99
49) Trichloroethene	4.875	130	45660	19.5842	ug/l	85
50) Benzene	4.477	78	148308	19.7241	ug/l	100
51) tert-Amyl methyl ether	4.532	73	46650	16.0529	ug/l	93
53) Iso-propylacetate	4.501	43	49900	14.6006	ug/l	77
54) Methyl methacrylate	5.067	41	36022	17.5886	ug/l	95
55) Dibromochloromethane	6.145	129	56457	17.5065	ug/l	95
56) 2-Chloroethylvinylether	5.350	63	18266	12.4320	ug/l	90
57) cis-1,3-Dichloropropene	5.452	75	59243	16.1966	ug/l	87
58) trans-1,3-Dichloropropene	5.778	75	57444	17.6507	ug/l	98
59) Ethyl methacrylate	5.814	41	38767	16.8791	ug/l	87
60) 1,1,2-Trichloroethane	5.898	97	35226	15.5849	ug/l	90
61) 1,2-Dibromoethane	6.223	107	40304	17.1650	ug/l	96
62) 1,3-Dichloropropane	6.000	76	65642	17.3387	ug/l	92
63) 4-Methyl-2-Pentanone	5.531	43	30435	13.3686	ug/l	98
64) 2-Hexanone	6.024	43	20421	12.9864	ug/l	88
65) Tetrachloroethene	5.988	164	42200	17.6222	ug/l	99
67) Toluene	5.657	92	96955	16.7672	ug/l	91

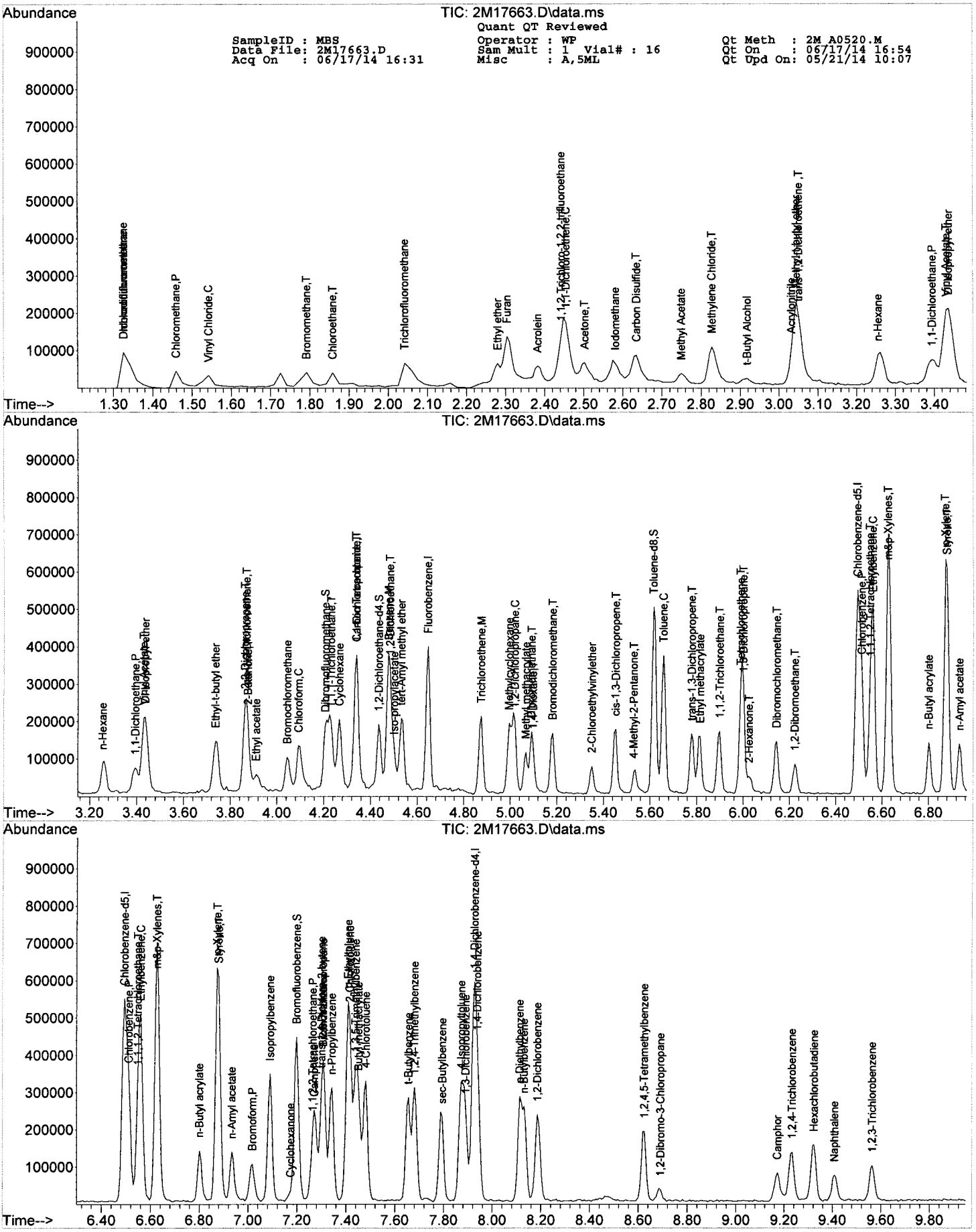
Quantitation Report (QT Reviewed)

SampleID : MBS
Data File: 2M17663.D
Acq On : 06/17/14 16:31
Operator : WP
Sam Mult : 1 Vial# : 16
Misc : A,5ML
Qt Meth : 2M_A0520.M
Qt On : 06/17/14 16:54
Qt Upd On: 05/21/14 10:07

Data Path : G:\GcMsData\2014\GCMS_2\Data\06-17-14\
Qt Path : G:\GcMsData\2014\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1,1,1,2-Tetrachloroethane	6.548	133	46021	17.5800	ug/l	74
69) Chlorobenzene	6.512	112	115691	16.8004	ug/l	96
71) n-Butyl acrylate	6.801	55	61259	12.1341	ug/l	94
72) n-Amyl acetate	6.933	43	50096	11.8559	ug/l	78
73) Bromoform	7.018	173	37864	14.7248	ug/l	97
74) Ethylbenzene	6.560	106	44968	18.7638	ug/l	83
75) 1,1,2,2-Tetrachloroethane	7.264	83	34882	14.1401	ug/l	87
77) Styrene	6.879	104	112099	17.1844	ug/l	88
78) m&p-Xylenes	6.626	106	133472	36.0662	ug/l	99
79) o-Xylene	6.873	106	65607	17.3262	ug/l	97
80) trans-1,4-Dichloro-2-b...	7.301	53	23934	17.5555	ug/l	95
81) 1,3-Dichlorobenzene	7.890	146	84822	15.9464	ug/l	90
82) 1,4-Dichlorobenzene	7.939	146	87520	15.6837	ug/l	94
83) 1,2-Dichlorobenzene	8.185	146	75836	14.9105	ug/l	94
84) Isopropylbenzene	7.090	105	156712	17.2941	ug/l	96
85) Cyclohexanone	7.174	55	6771	101.7215	ug/l	92
86) Camphene	7.270	93	36124	17.1493	ug/l	98
87) 1,2,3-Trichloropropane	7.307	75	54005	17.2461	ug/l	94
88) 2-Chlorotoluene	7.415	91	107005	18.2755	ug/l	96
89) p-Ethyltoluene	7.409	105	154623	17.1195	ug/l	86
90) 4-Chlorotoluene	7.481	91	107032	17.7592	ug/l	92
91) n-Propylbenzene	7.343	91	174577	16.6432	ug/l	96
92) Bromobenzene	7.307	77	115893	17.4430	ug/l	94
93) 1,3,5-Trimethylbenzene	7.439	105	135930	18.6186	ug/l	92
94) Butyl methacrylate	7.451	41	56017	16.3249	ug/l	88
95) t-Butylbenzene	7.656	119	114795	16.6019	ug/l	86
96) 1,2,4-Trimethylbenzene	7.680	105	136673	17.6084	ug/l	92
97) sec-Butylbenzene	7.794	105	121582	16.1888	ug/l	96
98) 4-Isopropyltoluene	7.872	119	113109	16.8500	ug/l	95
99) n-Butylbenzene	8.131	91	120613	17.1276	ug/l	90
100) p-Diethylbenzene	8.113	119	63246	16.2350	ug/l	90
101) 1,2,4,5-Tetramethylben...	8.625	119	88270	12.3857	ug/l	100
102) 1,2-Dibromo-3-Chloropr...	8.691	157	6918	12.9971	ug/l	76
103) Camphor	9.173	95	15103	80.0998	ug/l	97
104) Hexachlorobutadiene	9.323	225	32313	13.4995	ug/l	91
105) 1,2,4-Trichlorobenzene	9.233	180	39167	13.8565	ug/l	95
106) 1,2,3-Trichlorobenzene	9.564	180	28571m	12.9767	ug/l	
107) Naphthalene	9.407	128	47793	9.9033	ug/l	100

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


Abundance
TIC: 2M17663.D\data.ms
Quant QT Reviewed
SampleID : MBS
Data File: 2M17663.D
Acq On : 06/17/14 16:31
Operator : WP
Sam Mult : 1 Vial# : 16
Misc : A,5ML
Qt Meth : 2M_A0520.M
Qt On : 06/17/14 16:54
Qt Upd On: 05/21/14 10:07
Time-->

Form3
Recovery Data
QC Batch: MBS36480

Data File	Sample ID:	Analysis Date
Spike or Dup: 2M17684.D	MBS36480	6/17/2014 10:11:00 PM
Non Spike(If applicable):		
Inst Blank(If applicable):		

Method: 8260C | Matrix: Aqueous | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Vinyl Chloride	1	18.2895	0	20	91	20	130
1,1-Dichloroethene	1	22.091	0	20	110	50	130
1,1-Dichloroethane	1	18.8333	0	20	94	50	130
Chloroform	1	19.2803	0	20	96	50	130
1,2-Dichloroethane	1	19.5324	0	20	98	50	130
2-Butanone	1	17.7932	0	20	89	20	130
Carbon Tetrachloride	1	20.3548	0	20	102	50	130
Trichloroethene	1	18.7639	0	20	94	50	130
Benzene	1	18.3544	0	20	92	50	130
Tetrachloroethene	1	17.671	0	20	88	50	130
Toluene	1	16.5627	0	20	83	50	130
Chlorobenzene	1	16.2234	0	20	81	50	130
1,4-Dichlorobenzene	1	14.7716	0	20	74	50	130
1,2-Dichlorobenzene	1	14.8397	0	20	74	50	130
n-Propylbenzene	1	16.0392	0	20	80	50	130
sec-Butylbenzene	1	15.9953	0	20	80	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Quantitation Report (QT Reviewed)

SampleID : MBS
Data File: 2M17684.D
Acq On : 06/17/14 22:11

Operator : WP
Sam Mult : 1 Vial# : 29
Misc : A,5ML

Qt Meth : 2M_A0520.M
Qt On : 06/18/14 08:00
Qt Upd On: 05/21/14 10:07

Data Path : G:\GcMsData\2014\GCMS_2\Data\06-17-14\
Qt Path : G:\GcMsData\2014\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.646	96	206265	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.494	117	186823	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.927	152	121271	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.207	111	83729	33.02	ug/l	0.00
Spiked Amount 30.000			Recovery = 110.07%			
39) 1,2-Dichloroethane-d4	4.435	67	46285	32.92	ug/l	0.00
Spiked Amount 30.000			Recovery = 109.73%			
66) Toluene-d8	5.615	98	222705	28.95	ug/l	0.00
Spiked Amount 30.000			Recovery = 96.50%			
76) Bromofluorobenzene	7.198	174	100618	28.57	ug/l	0.00
Spiked Amount 30.000			Recovery = 95.23%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.331	51	119493	30.5111	ug/l	59
6) Dichlorodifluoromethane	1.331	85	34918	13.5535	ug/l	88
7) Chloromethane	1.464	50	28909	14.0593	ug/l	85
8) Bromomethane	1.780	94	23191	18.3535	ug/l	79
9) Vinyl Chloride	1.530	62	31968	18.2895	ug/l	98
10) Chloroethane	1.864	64	22259	19.7298	ug/l	96
11) Trichlorofluoromethane	2.047	101	60996	22.2357	ug/l	94
12) Ethyl ether	2.280	59	23412m	16.8284	ug/l	
13) Furan	2.304	39	70381m	17.3704	ug/l	
14) 1,1,2-Trichloro-1,2,2-...	2.449	101	34167	23.2173	ug/l	87
15) Methylene Chloride	2.834	84	36493	18.0425	ug/l	86
16) Acrolein	2.383	56	21013	69.5312	ug/l	91
17) Acrylonitrile	3.033	53	12039	17.4571	ug/l	85
18) Iodomethane	2.581	142	53107	17.2559	ug/l	94
19) Acetone	2.503	43	48791	94.1082	ug/l	82
20) Carbon Disulfide	2.636	76	91481	19.0254	ug/l	100
21) t-Butyl Alcohol	2.918	59	9013	107.4035	ug/l	85
22) n-Hexane	3.262	57	29128	21.1232	ug/l	81
23) Di-isopropyl-ether	3.436	45	112290	18.9693	ug/l	97
24) 1,1-Dichloroethene	2.455	61	57995	22.0910	ug/l	96
25) Methyl Acetate	2.750	43	26729	14.2157	ug/l	100
26) Methyl-t-butyl ether	3.045	73	53357	15.9974	ug/l	85
27) 1,1-Dichloroethane	3.394	63	62462	18.8333	ug/l	98
28) trans-1,2-Dichloroethene	3.051	96	33845m	18.8652	ug/l	
29) Ethyl-t-butyl ether	3.743	59	59052	42.6604	ug/l	96
30) cis-1,2-Dichloroethene	3.870	61	64799m	19.1078	ug/l	
31) Bromochloromethane	4.044	49	29621	16.7684	ug/l	91
32) 2,2-Dichloropropane	3.870	77	48876	22.1754	ug/l	93
33) Ethyl acetate	3.918	43	32542m	17.4266	ug/l	
34) 1,4-Dioxane	5.098	88	16781	929.6765	ug/l	91
35) 1,1-Dichloropropene	4.339	75	54829	20.9856	ug/l	92
36) Chloroform	4.098	83	74171	19.2803	ug/l	91
38) Cyclohexane	4.267	56	50245	20.6681	ug/l	98
40) 1,2-Dichloroethane	4.490	62	74798	19.5324	ug/l	100
41) 2-Butanone	3.876	43	14062	17.7932	ug/l	77
42) 1,1,1-Trichloroethane	4.231	97	67970	19.3576	ug/l	96
43) Carbon Tetrachloride	4.339	117	65220	20.3548	ug/l	96
44) Vinyl Acetate	3.430	43	99133	19.3859	ug/l	100
45) Bromodichloromethane	5.182	83	67058	18.9115	ug/l	82
46) Methylcyclohexane	4.995	83	45314	22.2781	ug/l	94
47) Dibromomethane	5.091	174	38531	17.7627	ug/l	92
48) 1,2-Dichloropropane	5.013	63	36487	16.8776	ug/l	99
49) Trichloroethene	4.875	130	45763	18.7639	ug/l	91
50) Benzene	4.478	78	144367	18.3544	ug/l	100
51) tert-Amyl methyl ether	4.532	73	48956	16.1045	ug/l	97
53) Iso-propylacetate	4.502	43	50495	14.9570	ug/l	76
54) Methyl methacrylate	5.067	41	36140	17.8639	ug/l	92
55) Dibromochloromethane	6.145	129	51367	16.1247	ug/l	100
56) 2-Chloroethylvinylether	5.350	63	17279	11.9049	ug/l	93
57) cis-1,3-Dichloropropene	5.453	75	59067	16.3477	ug/l	81
58) trans-1,3-Dichloropropene	5.778	75	56155	17.4676	ug/l	98
59) Ethyl methacrylate	5.814	41	38582	17.0058	ug/l	83
60) 1,1,2-Trichloroethane	5.898	97	34179	15.3082	ug/l	90
61) 1,2-Dibromoethane	6.223	107	36180	15.5988	ug/l	93
62) 1,3-Dichloropropane	6.000	76	59252	15.8440	ug/l	98
63) 4-Methyl-2-Pentanone	5.537	43	28219	12.5479	ug/l	98
64) 2-Hexanone	6.031	43	19006	12.2352	ug/l	95
65) Tetrachloroethene	5.994	164	41801	17.6710	ug/l	94
67) Toluene	5.657	92	94605	16.5627	ug/l	92

Quantitation Report (QT Reviewed)

SampleID : MBS
Data File: 2M17684.D
Acq On : 06/17/14 22:11

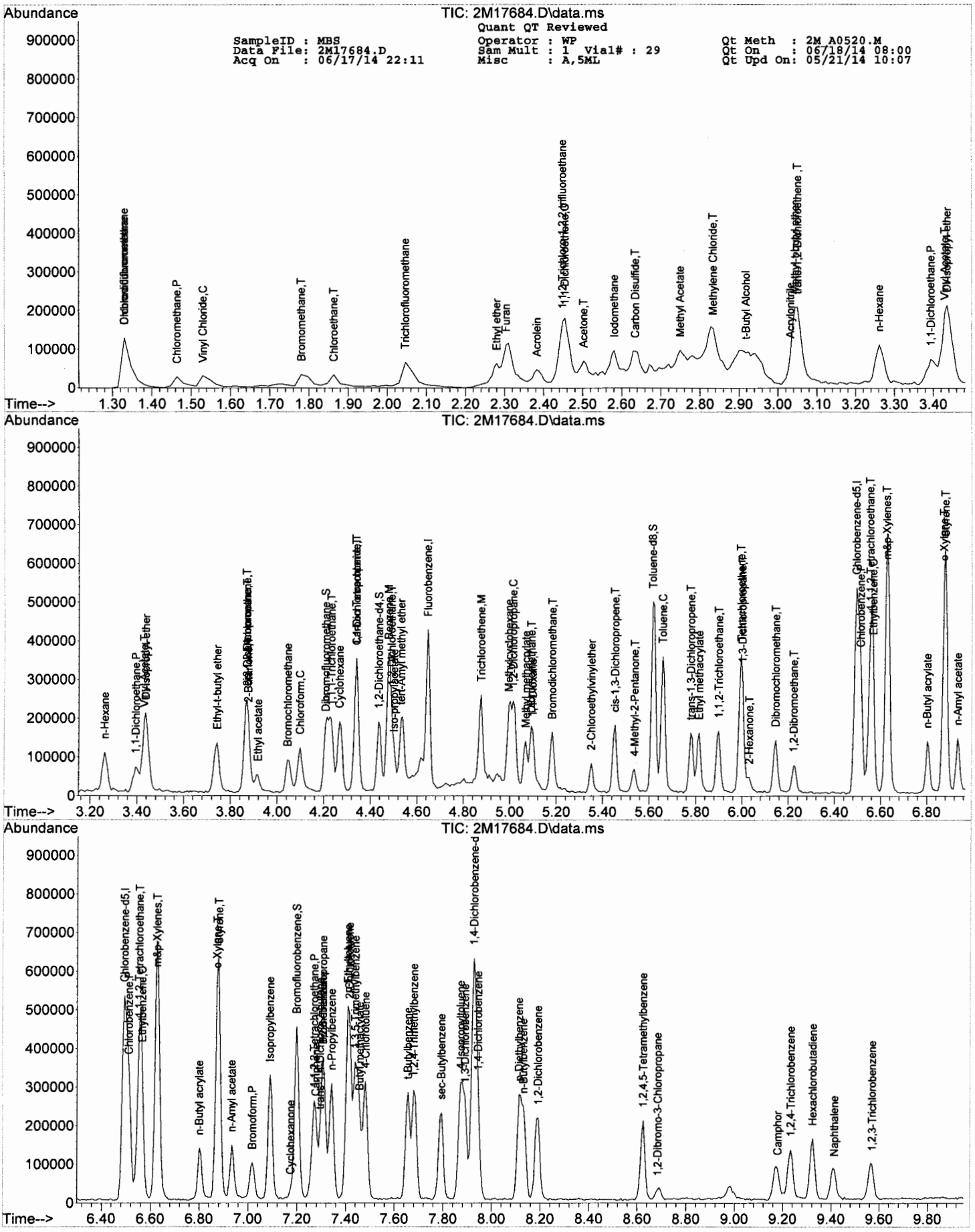
Operator : WP
Sam Mult : 1 Vial# : 29
Misc : A,5ML

Qt Meth : 2M_A0520.M
Qt On : 06/18/14 08:00
Qt Upd On: 05/21/14 10:07

Data Path : G:\GcMsData\2014\GCMS_2\Data\06-17-14\
Qt Path : G:\GcMsData\2014\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.554	133	45367	17.5440	ug/l	76
69)	Chlorobenzene	6.512	112	110356	16.2234	ug/l	96
71)	n-Butyl acrylate	6.801	55	62059	12.0926	ug/l	95
72)	n-Amyl acetate	6.934	43	55182	12.8449	ug/l	81
73)	Bromoform	7.018	173	34424	13.1691	ug/l	83
74)	Ethylbenzene	6.566	106	40096	16.4586	ug/l	76
75)	1,1,2,2-Tetrachloroethane	7.271	83	37373	14.9033	ug/l	78
77)	Styrene	6.879	104	108669	16.3875	ug/l	96
78)	m&p-Xylenes	6.627	106	127557	33.9068	ug/l	99
79)	o-Xylene	6.873	106	62628	16.2702	ug/l	97
80)	trans-1,4-Dichloro-2-b...	7.295	53	25097	18.1089	ug/l	96
81)	1,3-Dichlorobenzene	7.891	146	80820	14.9467	ug/l	89
82)	1,4-Dichlorobenzene	7.945	146	83794	14.7716	ug/l	91
83)	1,2-Dichlorobenzene	8.192	146	76725	14.8397	ug/l	89
84)	Isopropylbenzene	7.090	105	149247	16.2022	ug/l	94
85)	Cyclohexanone	7.174	55	7397	109.3171	ug/l	81
86)	Camphene	7.277	93	38992	18.2095	ug/l	97
87)	1,2,3-Trichloropropane	7.307	75	49161	15.4436	ug/l	97
88)	2-Chlorotoluene	7.415	91	101112	16.9879	ug/l	95
89)	p-Ethyltoluene	7.409	105	159033	17.3211	ug/l	80
90)	4-Chlorotoluene	7.481	91	106416	17.3696	ug/l	94
91)	n-Propylbenzene	7.343	91	171025	16.0392	ug/l	93
92)	Bromobenzene	7.307	77	111105	16.4502	ug/l	96
93)	1,3,5-Trimethylbenzene	7.439	105	119957	16.1633	ug/l	83
94)	Butyl methacrylate	7.457	41	59360	17.0176	ug/l	79
95)	t-Butylbenzene	7.656	119	112109	15.9496	ug/l	87
96)	1,2,4-Trimethylbenzene	7.680	105	128742	16.3166	ug/l	89
97)	sec-Butylbenzene	7.794	105	122117	15.9953	ug/l	97
98)	4-Isopropyltoluene	7.873	119	108912	15.9607	ug/l	95
99)	n-Butylbenzene	8.131	91	113896	15.9105	ug/l	90
100)	p-Diethylbenzene	8.113	119	60356	15.2410	ug/l	92
101)	1,2,4,5-Tetramethylben...	8.625	119	83233	11.4876	ug/l	92
102)	1,2-Dibromo-3-Chloropr...	8.685	157	6233	11.5196	ug/l	92
103)	Camphor	9.179	95	20673m	107.8520	ug/l	
104)	Hexachlorobutadiene	9.323	225	32805	13.4819	ug/l	100
105)	1,2,4-Trichlorobenzene	9.233	180	37275	12.9724	ug/l	94
106)	1,2,3-Trichlorobenzene	9.570	180	27649m	12.3535	ug/l	
107)	Naphthalene	9.414	128	55014	11.2162	ug/l	100

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


Abundance
TIC: 2M17684.D\data.ms
Quant QT Reviewed
SampleID : MBS
Data File: 2M17684.D
Acq On : 06/17/14 22:11
Operator : WP
Sam Mult : 1 Vial# : 29
Misc : A,5ML
Qt Meth : 2M_A0520.M
Qt On : 06/18/14 08:00
Qt Upd On: 05/21/14 10:07
Time-->

Form3
Recovery Data
QC Batch: MBS36480

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2M17682.D	AC79132-002(T:MS)	6/17/2014 9:39:00 PM
Non Spike(If applicable):	2M17673.D	AC79132-002(T)	6/17/2014 7:11:00 PM
Inst Blank(If applicable):			

Method: 8260C Matrix: Aqueous QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Vinyl Chloride	1	13.0439	0	20	65	20	130
1,1-Dichloroethene	1	16.5829	0	20	83	50	130
1,1-Dichloroethane	1	17.2757	0	20	86	50	130
Chloroform	1	17.3927	0	20	87	50	130
1,2-Dichloroethane	1	16.6677	0	20	83	50	130
2-Butanone	1	17.7459	0	20	89	20	130
Carbon Tetrachloride	1	16.0786	0	20	80	50	130
Trichloroethene	1	12.9741	0	20	65	50	130
Benzene	1	15.8153	0	20	79	50	130
Tetrachloroethene	1	12.6612	0	20	63	50	130
Toluene	1	13.4206	0	20	67	50	130
Chlorobenzene	1	11.997	0	20	60	50	130
1,4-Dichlorobenzene	1	7.672	0	20	38 *	50	130
1,2-Dichlorobenzene	1	9.5696	0	20	48 *	50	130
n-Propylbenzene	1	10.2108	0	20	51	50	130
sec-Butylbenzene	1	10.308	0	20	52	50	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2M17683.D	AC79132-002(T:MSD)	6/17/2014 9:55:00 PM
Non Spike(If applicable):	2M17673.D	AC79132-002(T)	6/17/2014 7:11:00 PM
Inst Blank(If applicable):			

Method: 8260C Matrix: Aqueous QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Vinyl Chloride	1	12.8005	0	20	64	20	130
1,1-Dichloroethene	1	13.2851	0	20	66	50	130
1,1-Dichloroethane	1	15.5749	0	20	78	50	130
Chloroform	1	16.3455	0	20	82	50	130
1,2-Dichloroethane	1	15.7471	0	20	79	50	130
2-Butanone	1	15.2465	0	20	76	20	130
Carbon Tetrachloride	1	15.0733	0	20	75	50	130
Trichloroethene	1	13.0559	0	20	65	50	130
Benzene	1	14.9756	0	20	75	50	130
Tetrachloroethene	1	11.8592	0	20	59	50	130
Toluene	1	12.7344	0	20	64	50	130
Chlorobenzene	1	10.9038	0	20	55	50	130
1,4-Dichlorobenzene	1	7.6697	0	20	38 *	50	130
1,2-Dichlorobenzene	1	9.9207	0	20	50	50	130
n-Propylbenzene	1	10.1796	0	20	51	50	130
sec-Butylbenzene	1	10.5532	0	20	53	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD DATA
QC Batch: MBS36480

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2M17683.D	AC79132-002(T:MSD)	6/17/2014 9:55:00 PM
Duplicate(If applicable):	2M17682.D	AC79132-002(T:MS)	6/17/2014 9:39:00 PM
Inst Blank(If applicable):			

Method: 8260C Matrix: Aqueous QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Vinyl Chloride	1	12.8005	13.0439	1.9	40
1,1-Dichloroethene	1	13.2851	16.5829	22	40
1,1-Dichloroethane	1	15.5749	17.2757	10	40
Chloroform	1	16.3455	17.3927	6.2	40
1,2-Dichloroethane	1	15.7471	16.6677	5.7	40
2-Butanone	1	15.2465	17.7459	15	40
Carbon Tetrachloride	1	15.0733	16.0786	6.5	40
Trichloroethene	1	13.0559	12.9741	0.63	40
Benzene	1	14.9756	15.8153	5.5	40
Tetrachloroethene	1	11.8592	12.6612	6.5	40
Toluene	1	12.7344	13.4206	5.2	40
Chlorobenzene	1	10.9038	11.997	9.5	40
1,4-Dichlorobenzene	1	7.6697	7.672	0.03	40
1,2-Dichlorobenzene	1	9.9207	9.5696	3.6	40
n-Propylbenzene	1	10.1796	10.2108	0.31	40
sec-Butylbenzene	1	10.5532	10.308	2.4	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

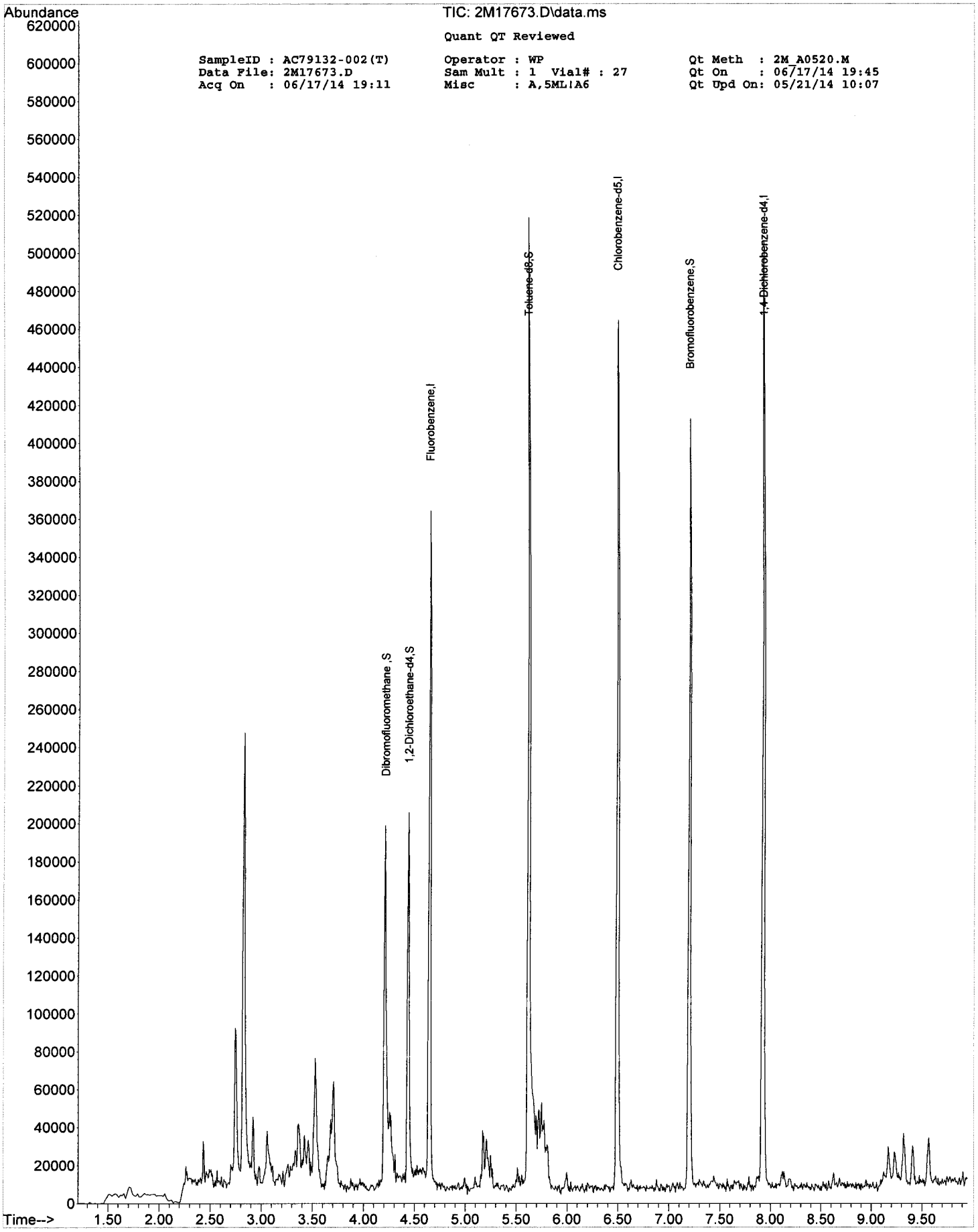
Quantitation Report (QT Reviewed)

SampleID : AC79132-002(T) Operator : WP Qt Meth : 2M_A0520.M
Data File: 2M17673.D Sam Mult : 1 Vial# : 27 Qt On : 06/17/14 19:45
Acq On : 06/17/14 19:11 Misc : A,5ML!A6 Qt Upd On: 05/21/14 10:07

Data Path : G:\GCMSDATA\2014\GCMS_2\DATA\06-17-14\
Qt Path : G:\GcMsData\2014\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.647	96	187096	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.495	117	182851	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.927	152	107669	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.207	111	81526	35.45	ug/l	0.00
Spiked Amount 30.000			Recovery = 118.17%			
39) 1,2-Dichloroethane-d4	4.436	67	48208	37.80	ug/l	0.00
Spiked Amount 30.000			Recovery = 126.00%			
66) Toluene-d8	5.616	98	215189	28.58	ug/l	0.00
Spiked Amount 30.000			Recovery = 95.27%			
76) Bromofluorobenzene	7.199	174	89573	28.65	ug/l	0.00
Spiked Amount 30.000			Recovery = 95.50%			
Target Compounds						Qvalue

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


Abundance
TIC: 2M17673.D\data.ms
Quant QT Reviewed
SampleID : AC79132-002(T)
Data File: 2M17673.D
Acq On : 06/17/14 19:11
Operator : WP
Sam Mult : 1 Vial# : 27
Misc : A,5ML!A6
Qt Meth : 2M_A0520.M
Qt On : 06/17/14 19:45
Qt Upd On: 05/21/14 10:07
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Quantitation Report (QT Reviewed)

SampleID : AC79132-002(T:MS) Operator : WP Qt Meth : 2M_A0520.M
Data File: 2M17682.D Sam Mult : 1 Vial# : 27 Qt On : 06/18/14 08:00
Acq On : 06/17/14 21:39 Misc : A,5ML!A6 Qt Upd On: 05/21/14 10:07

Data Path : G:\GcMsData\2014\GCMS_2\Data\06-17-14\
Qt Path : G:\GcMsData\2014\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.646	96	198917	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.494	117	183334	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.927	152	116359	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.207	111	80369	32.87	ug/l	0.00
Spiked Amount 30.000			Recovery = 109.57%			
39) 1,2-Dichloroethane-d4	4.436	67	44486	32.81	ug/l	0.00
Spiked Amount 30.000			Recovery = 109.37%			
66) Toluene-d8	5.615	98	221009	29.27	ug/l	0.00
Spiked Amount 30.000			Recovery = 97.57%			
76) Bromofluorobenzene	7.205	174	101060	29.91	ug/l	0.01
Spiked Amount 30.000			Recovery = 99.70%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.341	51	88294	23.3777	ug/l	58
6) Dichlorodifluoromethane	1.325	85	25249	10.1625	ug/l	89
7) Chloromethane	1.458	50	31552	15.9115	ug/l	85
8) Bromomethane	1.791	94	17452	14.3218	ug/l	64
9) Vinyl Chloride	1.541	62	21987	13.0439	ug/l	91
10) Chloroethane	1.858	64	18348	16.8462	ug/l	99
11) Trichlorofluoromethane	2.041	101	44176	16.6990	ug/l	87
12) Ethyl ether	2.275	59	19602m	14.6102	ug/l	
13) Furan	2.305	39	61143m	15.6478	ug/l	
14) 1,1,2-Trichloro-1,2,2-...	2.449	101	24616	17.3451	ug/l	93
15) Methylene Chloride	2.828	84	103950	53.2924	ug/l	87
16) Acrolein	2.377	56	19569	67.1390	ug/l	76
17) Acrylonitrile	3.039	53	11088	16.6720	ug/l	65
18) Iodomethane	2.582	142	41979	14.1440	ug/l	97
19) Acetone	2.503	43	46451	92.9044	ug/l	94
20) Carbon Disulfide	2.630	76	60948	13.1436	ug/l	100
21) t-Butyl Alcohol	2.919	59	6535	80.7510	ug/l	82
22) n-Hexane	3.262	57	10393	7.8152	ug/l	89
23) Di-isopropyl-ether	3.430	45	87085	15.2548	ug/l	97
24) 1,1-Dichloroethene	2.455	61	41984m	16.5829	ug/l	
25) Methyl Acetate	2.750	43	83324	45.9525	ug/l	100
26) Methyl-t-butyl ether	3.045	73	49904	15.5148	ug/l	86
27) 1,1-Dichloroethane	3.394	63	55255m	17.2757	ug/l	
28) trans-1,2-Dichloroethene	3.045	96	23840	13.7793	ug/l	88
29) Ethyl-t-butyl ether	3.737	59	48758	36.5249	ug/l	94
30) cis-1,2-Dichloroethene	3.864	61	54370m	16.6247	ug/l	
31) Bromochloromethane	4.044	49	25196	14.7903	ug/l	94
32) 2,2-Dichloropropane	3.870	77	42237	19.8711	ug/l	87
33) Ethyl acetate	3.918	43	32264	17.9160	ug/l	97
34) 1,4-Dioxane	5.092	88	12039	691.6049	ug/l	73
35) 1,1-Dichloropropene	4.339	75	35098	13.9299	ug/l	91
36) Chloroform	4.098	83	64526	17.3927	ug/l	83
38) Cyclohexane	4.273	56	32640	13.9223	ug/l	99
40) 1,2-Dichloroethane	4.484	62	61554	16.6677	ug/l	88
41) 2-Butanone	3.882	43	13525	17.7459	ug/l	84
42) 1,1,1-Trichloroethane	4.231	97	54239	16.0177	ug/l	98
43) Carbon Tetrachloride	4.339	117	49683	16.0786	ug/l	90
44) Vinyl Acetate	3.430	43	83342	16.8999	ug/l	100
45) Bromodichloromethane	5.182	83	55139	16.1245	ug/l	97
46) Methylcyclohexane	4.995	83	25838	13.1722	ug/l	95
47) Dibromomethane	5.098	174	31148	14.8896	ug/l	84
48) 1,2-Dichloropropane	5.019	63	30502	14.6303	ug/l	87
49) Trichloroethene	4.875	130	30515	12.9741	ug/l	96
50) Benzene	4.478	78	119964	15.8153	ug/l	100
51) tert-Amyl methyl ether	4.532	73	42824	14.6077	ug/l	97
53) Iso-propylacetate	4.502	43	47843	14.4411	ug/l	75
54) Methyl methacrylate	5.068	41	29644	14.9318	ug/l	87
55) Dibromochloromethane	6.145	129	40598	12.9867	ug/l	98
56) 2-Chloroethylvinylether	5.351	63	14323	10.0547	ug/l	80
57) cis-1,3-Dichloropropene	5.453	75	42947	12.1125	ug/l	98
58) trans-1,3-Dichloropropene	5.778	75	39399	12.4887	ug/l	86
59) Ethyl methacrylate	5.814	41	35167	15.7956	ug/l	85
60) 1,1,2-Trichloroethane	5.898	97	28871	13.1769	ug/l	89
61) 1,2-Dibromoethane	6.223	107	29729	13.0614	ug/l	97
62) 1,3-Dichloropropane	6.001	76	50974	13.8898	ug/l	93
63) 4-Methyl-2-Pentanone	5.537	43	27362	12.3983	ug/l	98
64) 2-Hexanone	6.031	43	19105	12.5332	ug/l	99
65) Tetrachloroethene	5.995	164	29391	12.6612	ug/l	85
67) Toluene	5.658	92	75226	13.4206	ug/l	95

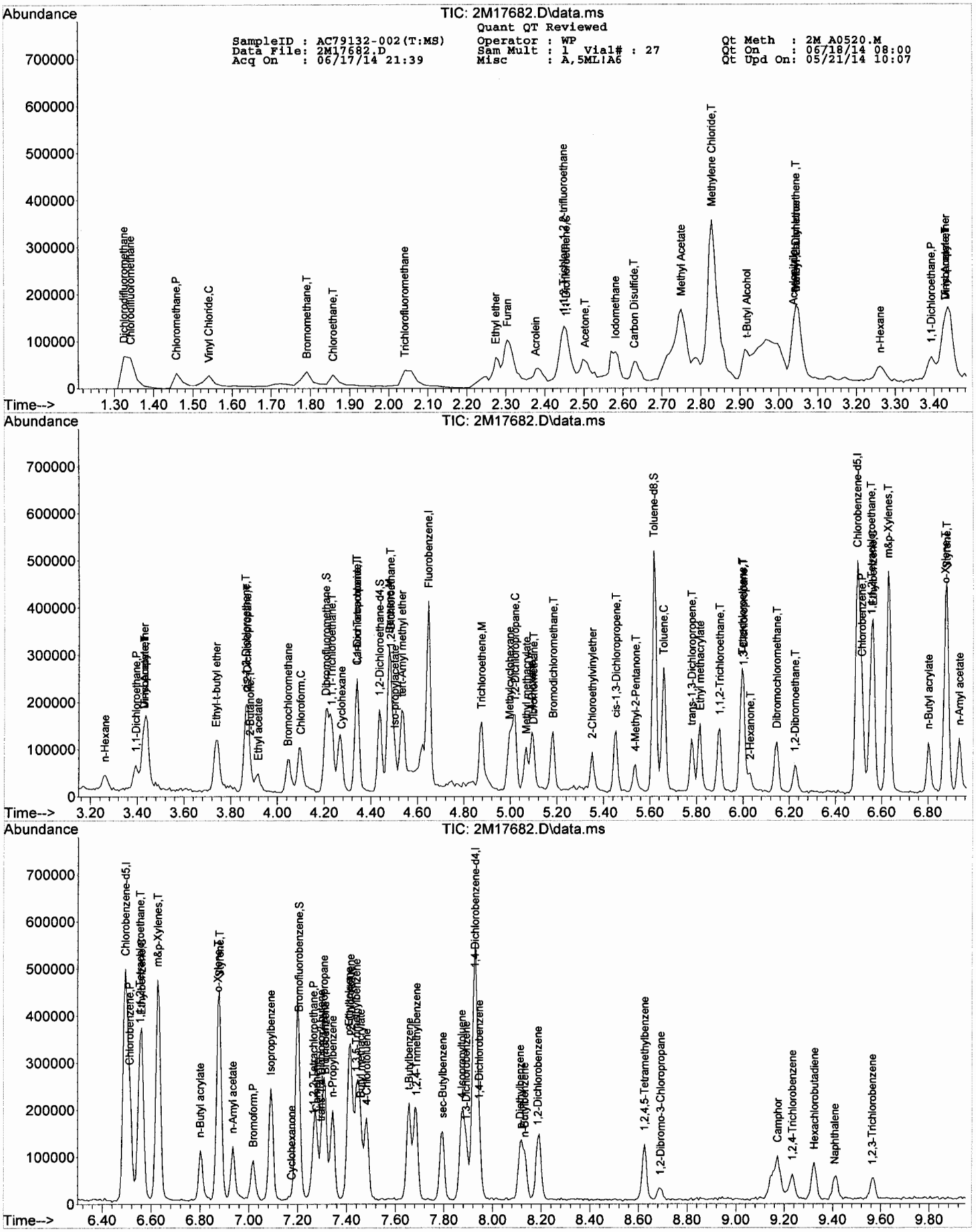
Quantitation Report (QT Reviewed)

SampleID : AC79132-002(T:MS) Operator : WP Qt Meth : 2M_A0520.M
Data File: 2M17682.D Sam Mult : 1 Vial# : 27 Qt On : 06/18/14 08:00
Acq On : 06/17/14 21:39 Misc : A,5ML!A6 Qt Upd On: 05/21/14 10:07

Data Path : G:\GcMsData\2014\GCMS_2\Data\06-17-14\
Qt Path : G:\GcMsData\2014\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.554	133	36832	14.5145	ug/l	72
69)	Chlorobenzene	6.512	112	80083	11.9970	ug/l	89
71)	n-Butyl acrylate	6.801	55	48750	9.9034	ug/l	93
72)	n-Amyl acetate	6.934	43	43599	10.5810	ug/l	77
73)	Bromoform	7.018	173	29212	11.6470	ug/l	98
74)	Ethylbenzene	6.560	106	30296	12.9608	ug/l	87
75)	1,1,2,2-Tetrachloroethane	7.265	83	33325	13.8501	ug/l	98
77)	Styrene	6.880	104	71969	11.3112	ug/l	89
78)	m&p-Xylenes	6.627	106	90769	25.1465	ug/l	90
79)	o-Xylene	6.873	106	48144	13.0354	ug/l	84
80)	trans-1,4-Dichloro-2-b...	7.295	53	16968	12.7602	ug/l	100
81)	1,3-Dichlorobenzene	7.891	146	42055	8.1059	ug/l	91
82)	1,4-Dichlorobenzene	7.945	146	41758	7.6720	ug/l	96
83)	1,2-Dichlorobenzene	8.186	146	47473	9.5696	ug/l	90
84)	Isopropylbenzene	7.090	105	108557	12.2824	ug/l	93
85)	Cyclohexanone	7.174	55	4561	70.2505	ug/l	92
86)	Camphene	7.277	93	26590	12.9419	ug/l	96
87)	1,2,3-Trichloropropane	7.307	75	40387	13.2229	ug/l	98
88)	2-Chlorotoluene	7.415	91	71896	12.5892	ug/l	96
89)	p-Ethyltoluene	7.409	105	97772	11.0984	ug/l	75
90)	4-Chlorotoluene	7.481	91	61704	10.4967	ug/l	94
91)	n-Propylbenzene	7.343	91	104467	10.2108	ug/l	96
92)	Bromobenzene	7.313	77	75785	11.6944	ug/l	94
93)	1,3,5-Trimethylbenzene	7.439	105	84050	11.8032	ug/l	82
94)	Butyl methacrylate	7.457	41	44398	13.2655	ug/l	81
95)	t-Butylbenzene	7.656	119	81980	12.1555	ug/l	87
96)	1,2,4-Trimethylbenzene	7.686	105	91291	12.0585	ug/l	94
97)	sec-Butylbenzene	7.794	105	75509	10.3080	ug/l	96
98)	4-Isopropyltoluene	7.873	119	70064	10.7011	ug/l	94
99)	n-Butylbenzene	8.132	91	48629	7.0799	ug/l	85
100)	p-Diethylbenzene	8.114	119	31066	8.1759	ug/l	90
101)	1,2,4,5-Tetramethylben...	8.625	119	52975	7.6164	ug/l	99
102)	1,2-Dibromo-3-Chloropr...	8.691	157	5111	9.8447	ug/l	85
103)	Camphor	9.173	95	16834	91.5332	ug/l	82
104)	Hexachlorobutadiene	9.323	225	16716	7.1598	ug/l	98
105)	1,2,4-Trichlorobenzene	9.233	180	13375	4.8513	ug/l	95
106)	1,2,3-Trichlorobenzene	9.564	180	13343m	6.2133	ug/l	
107)	Naphthalene	9.408	128	35556m	7.5510	ug/l	

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


Abundance
TIC: 2M17682.D\data.ms
Quant QT Reviewed
SampleID : AC79132-002(T:MS)
Data File: 2M17682.D
Acq On : 06/17/14 21:39
Operator : WP
Sam Mult : 1 Vial# : 27
Misc : A,5ML!A6
Qt Meth : 2M_A0520.M
Qt On : 06/18/14 08:00
Qt Upd On: 05/21/14 10:07
Time-->

Quantitation Report (QT Reviewed)

SampleID : AC79132-002(T:MSD) Operator : WP Qt Meth : 2M_A0520.M
Data File: 2M17683.D Sam Mult : 1 Vial# : 28 Qt On : 06/18/14 08:00
Acq On : 06/17/14 21:55 Misc : A,5ML!A6 Qt Upd On: 05/21/14 10:07

Data Path : G:\GcMsData\2014\GCMS_2\Data\06-17-14\
Qt Path : G:\GcMsData\2014\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.646	96	206636	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.494	117	192104	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	7.927	152	116598	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.213	111	83694	32.95	ug/l	0.00
Spiked Amount 30.000			Recovery = 109.83%			
39) 1,2-Dichloroethane-d4	4.436	67	46535	33.04	ug/l	0.00
Spiked Amount 30.000			Recovery = 110.13%			
66) Toluene-d8	5.616	98	222985	28.18	ug/l	0.00
Spiked Amount 30.000			Recovery = 93.93%			
76) Bromofluorobenzene	7.199	174	98984	29.23	ug/l	0.00
Spiked Amount 30.000			Recovery = 97.43%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.341	51	82079	20.9203	ug/l	58
6) Dichlorodifluoromethane	1.325	85	23424	9.0757	ug/l	95
7) Chloromethane	1.458	50	31975	15.5224	ug/l	90
8) Bromomethane	1.791	94	19849	15.6804	ug/l	84
9) Vinyl Chloride	1.541	62	22414	12.8005	ug/l	93
10) Chloroethane	1.858	64	18364	16.2273	ug/l	95
11) Trichlorofluoromethane	2.057	101	47534	17.2971	ug/l	79
12) Ethyl ether	2.275	59	26297	18.8681	ug/l	82
13) Furan	2.311	39	58385	14.3838	ug/l	100
14) 1,1,2-Trichloro-1,2,2-...	2.449	101	24029	16.2990	ug/l	96
15) Methylene Chloride	2.829	84	110023	54.2988	ug/l	93
16) Acrolein	2.383	56	18880	62.3441	ug/l	89
17) Acrylonitrile	3.033	53	9961m	14.4180	ug/l	
18) Iodomethane	2.582	142	38941	12.6303	ug/l	100
19) Acetone	2.503	43	48520m	93.4174	ug/l	
20) Carbon Disulfide	2.630	76	56568	11.7434	ug/l	100
21) t-Butyl Alcohol	2.913	59	6344	75.4626	ug/l	94
22) n-Hexane	3.268	57	9423	6.8211	ug/l	79
23) Di-isopropyl-ether	3.436	45	91998	15.5134	ug/l	96
24) 1,1-Dichloroethene	2.455	61	34940	13.2851	ug/l	95
25) Methyl Acetate	2.750	43	91407	48.5271	ug/l	100
26) Methyl-t-butyl ether	3.045	73	49842	14.9167	ug/l	88
27) 1,1-Dichloroethane	3.400	63	51748	15.5749	ug/l	89
28) trans-1,2-Dichloroethene	3.051	96	23295	12.9613	ug/l	93
29) Ethyl-t-butyl ether	3.737	59	52088	37.5619	ug/l	94
30) cis-1,2-Dichloroethene	3.870	61	54112	15.9278	ug/l	99
31) Bromochloromethane	4.044	49	24793	14.0101	ug/l	81
32) 2,2-Dichloropropane	3.870	77	41534	18.8105	ug/l	94
33) Ethyl acetate	3.918	43	31540	16.8597	ug/l	100
34) 1,4-Dioxane	5.098	88	13187	729.2553	ug/l	71
35) 1,1-Dichloropropene	4.339	75	31664	12.0975	ug/l	92
36) Chloroform	4.093	83	62994	16.3455	ug/l	82
38) Cyclohexane	4.267	56	32664	13.4121	ug/l	94
40) 1,2-Dichloroethane	4.484	62	60411	15.7471	ug/l	90
41) 2-Butanone	3.876	43	12071	15.2465	ug/l	93
42) 1,1,1-Trichloroethane	4.231	97	53075	15.0884	ug/l	97
43) Carbon Tetrachloride	4.339	117	48384	15.0733	ug/l	87
44) Vinyl Acetate	3.436	43	86787	16.9411	ug/l	100
45) Bromodichloromethane	5.182	83	57165	16.0925	ug/l	96
46) Methylcyclohexane	4.996	83	24971	12.2546	ug/l	99
47) Dibromomethane	5.098	174	30845	14.1940	ug/l	94
48) 1,2-Dichloropropane	5.020	63	31198	14.4052	ug/l	99
49) Trichloroethene	4.875	130	31899	13.0559	ug/l	90
50) Benzene	4.478	78	118003	14.9756	ug/l	100
51) tert-Amyl methyl ether	4.532	73	43134	14.1638	ug/l	98
53) Iso-propylacetate	4.502	43	45062	12.9808	ug/l	83
54) Methyl methacrylate	5.068	41	30551	14.6862	ug/l	88
55) Dibromochloromethane	6.145	129	42746	13.0496	ug/l	100
56) 2-Chloroethylvinylether	5.351	63	15181	10.1706	ug/l	73
57) cis-1,3-Dichloropropene	5.453	75	40736	10.9644	ug/l	97
58) trans-1,3-Dichloropropene	5.778	75	37883	11.4599	ug/l	91
59) Ethyl methacrylate	5.814	41	34102	14.6180	ug/l	77
60) 1,1,2-Trichloroethane	5.899	97	28652	12.4800	ug/l	86
61) 1,2-Dibromoethane	6.224	107	29025	12.1699	ug/l	87
62) 1,3-Dichloropropane	6.001	76	51756	13.4591	ug/l	92
63) 4-Methyl-2-Pentanone	5.537	43	26616m	11.5094	ug/l	
64) 2-Hexanone	6.031	43	19685	12.3240	ug/l	94
65) Tetrachloroethene	5.995	164	28846	11.8592	ug/l	96
67) Toluene	6.658	92	74794	12.7344	ug/l	99

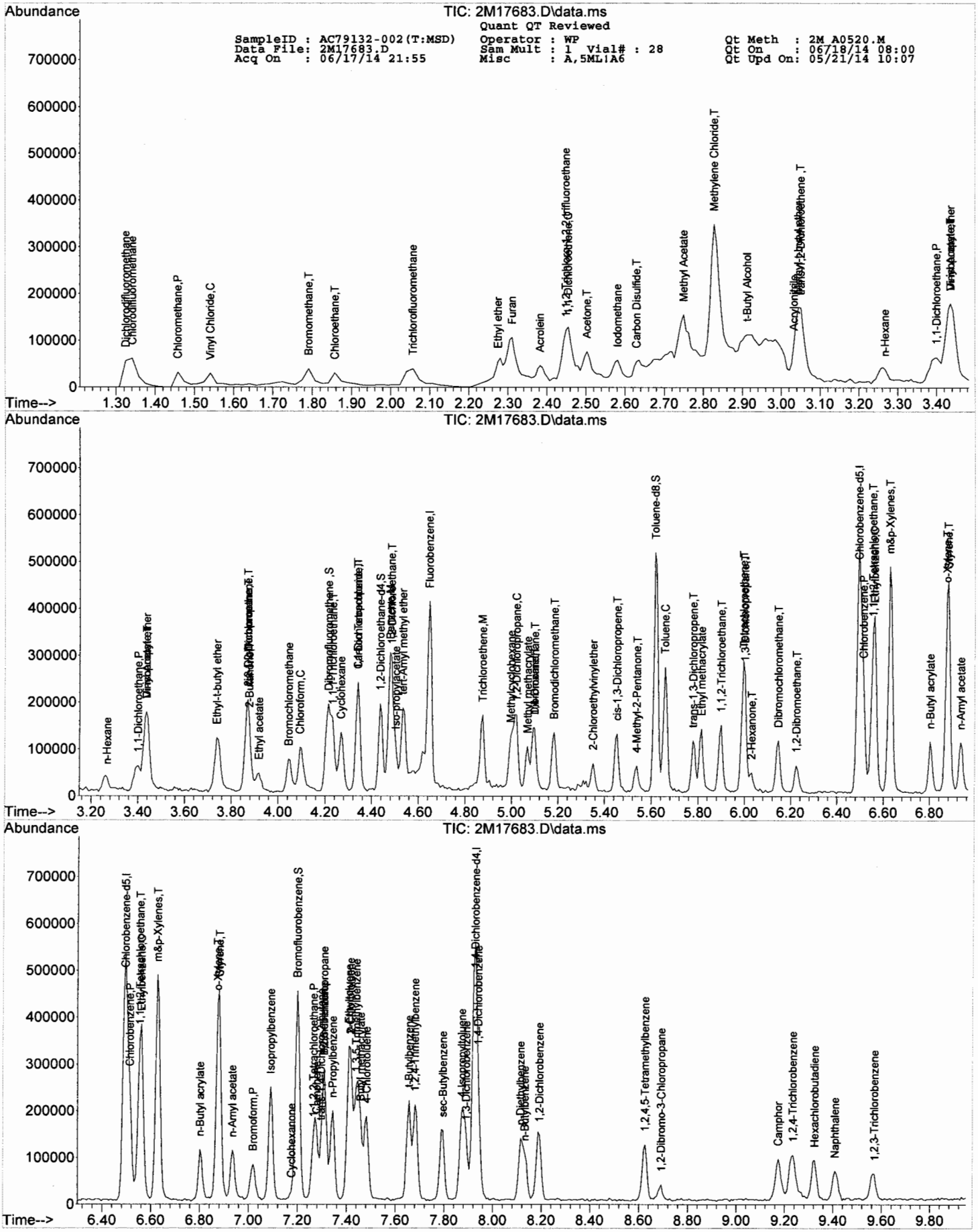
Quantitation Report (QT Reviewed)

SampleID : AC79132-002(T:MSD) Operator : WP Qt Meth : 2M_A0520.M
Data File: 2M17683.D Sam Mult : 1 Vial# : 28 Qt On : 06/18/14 08:00
Acq On : 06/17/14 21:55 Misc : A,5ML!A6 Qt Upd On: 05/21/14 10:07

Data Path : G:\GcMsData\2014\GCMS_2\Data\06-17-14\
Qt Path : G:\GcMsData\2014\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.555	133	40014	15.0486	ug/l	77
69)	Chlorobenzene	6.513	112	76267	10.9038	ug/l	100
71)	n-Butyl acrylate	6.801	55	47944	9.7200	ug/l	92
72)	n-Amyl acetate	6.934	43	44616	10.8052	ug/l	76
73)	Bromoform	7.018	173	27454	10.9237	ug/l	89
74)	Ethylbenzene	6.561	106	30104	12.8523	ug/l	85
75)	1,1,2,2-Tetrachloroethane	7.265	83	32067	13.2999	ug/l	92
77)	Styrene	6.880	104	72695	11.4019	ug/l	88
78)	m&p-Xylenes	6.627	106	90834	25.1129	ug/l	91
79)	o-Xylene	6.874	106	48903	13.2138	ug/l	84
80)	trans-1,4-Dichloro-2-b...	7.295	53	17378	13.0418	ug/l	94
81)	1,3-Dichlorobenzene	7.891	146	45021	8.6598	ug/l	88
82)	1,4-Dichlorobenzene	7.939	146	41831	7.6697	ug/l	93
83)	1,2-Dichlorobenzene	8.192	146	49316	9.9207	ug/l	94
84)	Isopropylbenzene	7.090	105	108586	12.2605	ug/l	94
85)	Cyclohexanone	7.175	55	4971	76.4086	ug/l	82
86)	Camphene	7.277	93	24707	12.0008	ug/l	90
87)	1,2,3-Trichloropropane	7.307	75	38998	12.7420	ug/l	93
88)	2-Chlorotoluene	7.415	91	72390	12.6498	ug/l	99
89)	p-Ethyltoluene	7.409	105	89957	10.1904	ug/l	83
90)	4-Chlorotoluene	7.482	91	56048	9.5150	ug/l	94
91)	n-Propylbenzene	7.343	91	104362	10.1796	ug/l	98
92)	Bromobenzene	7.307	77	74963	11.5438	ug/l	96
93)	1,3,5-Trimethylbenzene	7.440	105	91948	12.8858	ug/l	88
94)	Butyl methacrylate	7.458	41	44992	13.4154	ug/l	78
95)	t-Butylbenzene	7.656	119	81207	12.0162	ug/l	88
96)	1,2,4-Trimethylbenzene	7.680	105	92167	12.1493	ug/l	88
97)	sec-Butylbenzene	7.795	105	77464	10.5532	ug/l	99
98)	4-Isopropyltoluene	7.873	119	69248	10.5548	ug/l	93
99)	n-Butylbenzene	8.132	91	48766	7.0853	ug/l	89
100)	p-Diethylbenzene	8.114	119	28717	7.5422	ug/l	98
101)	1,2,4,5-Tetramethylben...	8.625	119	57041	8.1848	ug/l	98
102)	1,2-Dibromo-3-Chloropr...	8.692	157	6685	12.8501	ug/l	69
103)	Camphor	9.173	95	20605m	111.8049	ug/l	
104)	Hexachlorobutadiene	9.324	225	17030	7.2794	ug/l	90
105)	1,2,4-Trichlorobenzene	9.233	180	17116	6.1954	ug/l	98
106)	1,2,3-Trichlorobenzene	9.570	180	18118m	8.4195	ug/l	
107)	Naphthalene	9.408	128	42131m	8.9308	ug/l	

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


Abundance
TIC: 2M17683.D\data.ms
Quant QT Reviewed
SampleID : AC79132-002(T:MSD)
Data File: 2M17683.D
Acq On : 06/17/14 21:55
Operator : WP
Sam Mult : 1 Vial# : 28
Misc : A,5ML!A6
Qt Meth : 2M_A0520.M
Qt On : 06/18/14 08:00
Qt Upd On: 05/21/14 10:07
Dichlorodifluoromethane
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
1,1-Dichloroethane,P
Time-->
n-Hexane
1,1-Dichloroethane,P
Ethyl-t-butyl ether
Ethyl acetate
Bromochloromethane
Chloroform,C
Cyclohexane
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
Ethyl methacrylate
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Chlorobenzene,P
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Time-->
Chlorobenzene-d5,I
Chlorobenzene,P
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
n-Propylbenzene
1,4-Dichlorobenzene-d4,I
sec-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

GC/MS Volatile Data
Logbook Data

RUN LOG

1-1-2M16102

Instrument: G4061226.0107
Analyst: WP

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
2M16102.D	BFB TUNE		V-182113,V183755,V-186273	WP 05/22/14						05/20 15:14
2M16103.D	20 PPB	CnAnc	-	KL 05/21/14		Aqueous	1	1	624\826	05/20 15:30
2M16104.D	BLK	CnAnc	-	KL 05/21/14		Aqueous	1	1	624\826	05/20 15:50
2M16105.D	CAL @ 20 PPB	C16C18	-	KL 05/21/14		Aqueous	1	1	624\826	05/20 16:06
2M16106.D	BLK	C8fC6f	-	KL 05/21/14		Aqueous	1	1	624\826	05/20 16:22
2M16111.D	CAL @ 0.5 PPB		B-17408	WP 05/22/14		Aqueous	1	1	624\826	05/20 17:45
2M16112.D	CAL @ 1 PPB		B-17408	WP 05/22/14		Aqueous	1	1	624\826	05/20 18:01
2M16113.D	CAL @ 5 PPB		B-17408	WP 05/22/14		Aqueous	1	1	624\826	05/20 18:17
2M16114.D	CAL @ 10 PPB		B-17408	WP 05/22/14		Aqueous	1	1	624\826	05/20 18:33
2M16115.D	CAL @ 20 PPB		B-17408	WP 05/22/14		Aqueous	1	1	624\826	05/20 18:49
2M16116.D	BLK	Is	-	KL 05/21/14		Aqueous	1	1	624\826	05/20 19:05
2M16117.D	CAL @ 50 PPB		B-17408	WP 05/22/14		Aqueous	1	1	624\826	05/20 19:21
2M16118.D	CAL @ 100 PPB		B-17408	WP 05/22/14		Aqueous	1	1	624\826	05/20 19:37
2M16119.D	BLK		-	KL 05/21/14		Aqueous	1	1	624\826	05/20 19:53
2M16120.D	BLK		-	KL 05/21/14		Aqueous	1	1	624\826	05/20 20:09
2M16121.D	CAL @250 PPB		B-17408	WP 05/22/14		Aqueous	1	1	624\826	05/20 20:25
2M16122.D	BLK		-	KL 05/21/14		Aqueous	1	1	624\826	05/20 20:41
2M16123.D	BLK		-	KL 05/21/14		Aqueous	1	1	624\826	05/20 20:56
2M16124.D	CAL @ 500 PPB		B-17408	WP 05/22/14		Aqueous	1	1	624\826	05/20 21:12
2M16125.D	BLK		-	KL 05/21/14		Aqueous	1	1	624\826	05/20 21:28
2M16126.D	BLK		-	KL 05/21/14		Aqueous	1	1	624\826	05/20 21:44
2M16127.D	BLK		-	KL 05/21/14		Aqueous	1	1	624\826	05/20 22:00
2M16128.D	BLK		-	KL 05/21/14		Aqueous	1	1	624\826	05/20 22:16
2M16129.D	ICV	Ivo	V-187291	WP 05/22/14		Aqueous	1	1	624\826	05/20 22:32
2M16130.D	ICV	Ivo	-	WP 05/22/14		Aqueous	1	1	624\826	05/20 22:48
2M16131.D	BLK		-	KL 05/21/14		Methano	1	1	8260C	05/20 23:04
2M16132.D	DAILY BLANK		OK	KL 05/21/14		Methano	1	1	8260C	05/20 23:20
2M16133.D	DAILY BLANK		OK	KL 05/21/14		Aqueous	1	1	624\826	05/20 23:36
2M16134.D	AC78679-001		OK	KL 05/21/14	VO15-8260	Aqueous	1	1	8260C	05/20 23:52
2M16135.D	AC78677-001		OK	KL 05/21/14	VO15-8260	Aqueous	1	1	8260C	05/21 00:08
2M16136.D	AC78740-004		OK	KL 05/21/14	VO-8260	Aqueous	1	1	8260C	05/21 00:24
2M16137.D	AC78740-003		OK	KL 05/21/14	VO-8260	Aqueous	1	1	8260C	05/21 00:40
2M16138.D	AC78629-005		OK	KL 05/21/14	VO-8260	Methano	1	1	8260C	05/21 00:56
2M16139.D	AC78682-003		OK	KL 05/21/14	VO-8260	Methano	1	1	8260C	05/21 01:12
2M16140.D	BLK		-	KL 05/21/14		Aqueous	1	1	624\826	05/21 01:28
2M16141.D	AC78716-002(400u		OK	KL 05/21/14	VO-8260	Methano	1	2	8260C	05/21 01:43
2M16142.D	MBS35793		OK MBS35793	KL 05/21/14		Aqueous	1	1	624\826	05/21 01:59
2M16143.D	MBS35794		OK,NG MBS35794	KL 05/21/14		Aqueous	1	1	624\826	05/21 02:15
2M16144.D	MBS35795		OK MBS35795	KL 05/21/14		Methano	1	1	8260C	05/21 02:31
2M16146.D	STD	Ti8	-	KL 05/21/14		Aqueous	1	1	624\826	05/21 09:19
2M16147.D	STD	Ti8	-	KL 05/21/14		Aqueous	1	1	624\826	05/21 09:35
2M16148.D	BLK	Ti8	-	KL 05/21/14		Aqueous	1	1	624\826	05/21 09:51
2M16149.D	AC78732-001		OK	KL 05/21/14	VOBTEX-624	Aqueous	1	1	624	05/21 10:16
2M16150.D	AC78732-016		OK	KL 05/21/14	VOBTEX-624	Aqueous	1	1	624	05/21 10:33
2M16151.D	AC78722-009		OK	KL 05/21/14	VOBTEX-624	Aqueous	1	1	624	05/21 10:50
2M16152.D	AC78732-009		OK	KL 05/21/14	VOBTEX-624	Aqueous	1	1	624	05/21 11:06
2M16153.D	AC78732-008		OK	KL 05/21/14	VOBTEX-624	Aqueous	1	1	624	05/21 11:22
2M16154.D	AC78732-010		OK	KL 05/21/14	VOBTEX-624	Aqueous	1	1	624	05/21 11:38
2M16155.D	AC78732-011		OK	KL 05/21/14	VOBTEX-624	Aqueous	1	1	624	05/21 11:54

Anc	Area Not Checked	Eo	Extractinn Performed Past Hnld	Co	Warnino Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missinn/Not check'd	CRN	Warnino c30/c20... nnt checked
B6m	Blank 600 series missino	Etn	Tcln/Solvent Extraction Date Missino/Nnt check'd	Cro	C30/C20 failed fnr enh
B8m	Blank 8000 series missino	Eto	Tcln Extractinn Performed Outside of Hnld	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assioned	Ev	Eval Time Exceaded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evrc	Eval Mix missino ddt nr endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hnld time	R16,R26	Rnd Out on MsMsd (col1 and nr col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16,I26	Initial cal 600 series failed Column 1 and nr 2	R18,R28	Rnd Out on MsMsd (col1 and nr col2) 8000 series
C28	Calibratinn Column 2 Out (8000 Series)	I18,I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passino cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passino cal	Iv	Prob with calmt.csv for init calibration chek rfs	S6	600 series surrnnate out
Cme	Endinn Cal missino for sample (8000 series)	Iw	Initial cal warnino..Ini cal file <> method.	S8	8000 series surrnnate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6,Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

Instrument: G4061226.0108
Analyst: WP

1-1-2M17649

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
2M17649.D	BFB TUNE		6/20/14 V-183113,V-183755,V-186273,V-188723	SGG 06/18/14						06/17 12:49
2M17650.D	20 PPB	CnAnc	-	SGG 06/18/14		Aqueous	1	1	624\826	06/17 12:59
2M17651.D	BLK	CnAnc	-	SGG 06/18/14		Aqueous	1	1	624\826	06/17 13:15
2M17652.D	CAL @ 20 PPB		OK	SGG 06/18/14		Aqueous	1	1	624\826	06/17 13:31
2M17653.D	BLK		-	SGG 06/18/14		Aqueous	1	1	624\826	06/17 13:47
2M17654.D	BLK	B8m	-	SGG 06/18/14		Methano	1	1	8260C	06/17 14:03
2M17655.D	BLK		-	SGG 06/18/14		Aqueous	1	1	624\826	06/17 14:19
2M17656.D	BLK	S6S8Ao	-	SGG 06/18/14		Aqueous	1	1	624\826	06/17 14:41
2M17657.D	BLK		-	SGG 06/18/14		Aqueous	1	1	624\826	06/17 14:57
2M17658.D	BLK		-	SGG 06/18/14		Aqueous	1	1	624\826	06/17 15:13
2M17659.D	BLK		-	SGG 06/18/14		Aqueous	1	1	624\826	06/17 15:29
2M17660.D	BLKBLK		-	SGG 06/18/14		Aqueous	1	1	624\826	06/17 15:45
2M17661.D	BLKBLK		-	SGG 06/18/14		Aqueous	1	1	624\826	06/17 16:00
2M17662.D	DAILY BLANK		OK	SGG 06/18/14		Aqueous	1	1	624\826	06/17 16:15
2M17663.D	MBS36472		OK MBS36472	SGG 06/18/14		Aqueous	1	1	624\826	06/17 16:31
2M17664.D	AC79174-025(T)		OK	SGG 06/18/14	VOTCLP-826	Aqueous	1	1	8260C	06/17 16:47
2M17665.D	AC79174-026(T)		OK	SGG 06/18/14	VOTCLP-826	Aqueous	1	1	8260C	06/17 17:03
2M17666.D	BLK		-	SGG 06/18/14		Aqueous	1	1	624\826	06/17 17:19
2M17667.D	BLK		-	SGG 06/18/14		Aqueous	1	1	624\826	06/17 17:35
2M17668.D	79225-001		-	SGG 06/18/14		Aqueous	1	1	624\826	06/17 17:51
2M17669.D	AC79162-017		OK	SGG 06/18/14	VO-8260	Aqueous	1	1	8260C	06/17 18:07
2M17670.D	AC79170-001		OK	SGG 06/18/14	VO-8260	Aqueous	1	1	8260C	06/17 18:23
2M17671.D	AC79123-023(MS)		OK MBS36472	SGG 06/18/14	VO15-624	Aqueous	1	1	624\826	06/17 18:39
2M17672.D	AC79123-023(MSD)		OK MBS36472	SGG 06/18/14	VO15-624	Aqueous	1	1	624\826	06/17 18:55
2M17673.D	AC79132-002(T)		OK MBS36480	SGG 06/18/14	VOTCLP-826	Aqueous	1	1	8260C	06/17 19:11
2M17674.D	EF-1-V-188693(061		OK	SGG 06/18/14		Aqueous	1	6171	8260C	06/17 19:27
2M17675.D	AC79132-004(T)	Oc	OK	SGG 06/18/14	VOTCLP-826	Aqueous	1	1	8260C	06/17 19:43
2M17676.D	AC79132-006(T)		OK	SGG 06/18/14	VOTCLP-826	Aqueous	1	1	8260C	06/17 20:03
2M17677.D	AC79132-008(T)		OK	SGG 06/18/14	VOTCLP-826	Aqueous	1	1	8260C	06/17 20:19
2M17678.D	AC79197-001(T)		OK	SGG 06/18/14	VOTCLP-826	Aqueous	1	1	8260C	06/17 20:35
2M17679.D	AC79197-002(T)		OK	SGG 06/18/14	VOTCLP-826	Aqueous	1	1	8260C	06/17 20:51
2M17680.D	AC79197-003(T)		OK	SGG 06/18/14	VOTCLP-826	Aqueous	1	1	8260C	06/17 21:07
2M17681.D	AC79207-001(T)		OK	SGG 06/18/14	VOTCLP-826	Aqueous	1	1	8260C	06/17 21:23
2M17682.D	AC79132-002(T:MS	M16M18	OK MBS36480	SGG 06/18/14	VOTCLP-826	Aqueous	1	1	624\826	06/17 21:39
2M17683.D	AC79132-002(T:MS	M16M18	OK MBS36480	SGG 06/18/14	VOTCLP-826	Aqueous	1	1	624\826	06/17 21:55
2M17684.D	MBS36480		OK MBS36480	SGG 06/18/14		Aqueous	1	1	624\826	06/17 22:11
2M17685.D	BLK		-	SGG 06/18/14		Aqueous	1	1	624\826	06/17 22:27
2M17686.D	AC79170-002		OK	SGG 06/18/14	VO-8260	Aqueous	1	1	8260C	06/17 22:43
2M17687.D	AC79170-003		OK	SGG 06/18/14	VO-8260	Aqueous	1	1	8260C	06/17 22:59
2M17688.D	AC79188-006		OK	SGG 06/18/14	VO-8260	Aqueous	1	1	8260C	06/17 23:15
2M17689.D	AC79188-007		OK	SGG 06/18/14	VO-8260	Aqueous	1	1	8260C	06/17 23:31
2M17690.D	AC79188-008		OK	SGG 06/18/14	VO-8260	Aqueous	1	1	8260C	06/17 23:47
2M17691.D	AC79188-009		OK	SGG 06/18/14	VO-8260	Aqueous	1	1	8260C	06/18 00:03
2M17692.D	BLK		-	SGG 06/18/14		Aqueous	1	1	624\826	06/18 00:18
2M17693.D	BLK		-	SGG 06/18/14		Aqueous	1	1	624\826	06/18 00:34
2M17694.D	BLK	Ti8	OK	SGG 06/18/14		Aqueous	1	1	624\826	06/18 00:50
2M17695.D	MBS36481	Ti8	OK MBS36481	SGG 06/18/14		Aqueous	1	1	624\826	06/18 01:06
2M17696.D	BLK	Ti8	-	SGG 06/18/14		Aqueous	1	1	624\826	06/18 01:22
2M17697.D	AC79175-003	Ocf	RR-50X	SGG 06/18/14	VOBTEXM-62	Aqueous	1	1	624	06/18 01:38
2M17698.D	AC79175-005		RR-1X	SGG 06/18/14	VOBTEXM-62	Aqueous	1	1	624	06/18 01:54
2M17699.D	AC79175-007		RR-1X	SGG 06/18/14	VOBTEXM-62	Aqueous	1	1	624	06/18 02:10
2M17700.D	BLK	Ti8	-	SGG 06/18/14		Aqueous	1	1	624\826	06/18 02:25
2M17701.D	AC79175-001(200X)		RR-5X	SGG 06/18/14	VOBTEXM-62	Aqueous	1	200	624	06/18 02:41
2M17702.D	AC79175-006(200X)		OK	SGG 06/18/14	VOBTEXM-62	Aqueous	1	200	624	06/18 02:57
2M17703.D	79135-006(50X)	Ti8	-	SGG 06/18/14		Aqueous	1	50	624\826	06/18 03:13
2M17704.D	79135-007(50X)	Ti8	-	SGG 06/18/14		Aqueous	1	50	624\826	06/18 03:29

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20... not checked
B6m	Blank 600 series missing	Etn	Tcln/Solvent Extraction Date Missing/Not check'd	Cm	C30/C20 failed for enh
B8m	Blank 8000 series missing	Eto	Tcln Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16,R26	Rnd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16,I26	Initial cal 600 series failed Column 1 and or 2	R18,R28	Rnd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18,I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt.csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Endino Cal missing for sample (8000 series)	Iw	Initial cal warning..Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6,Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

Instrument: GC4061226..0109
Analyst: WP

1-1-2M17705

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
2M17705.D	79135-004(50X)	Ti8	-	SGG 06/18/14		Aqueous	1	50	624\826	06/18 03:46
2M17706.D	79135-003(20X)	Ti8	-	SGG 06/18/14		Aqueous	1	20	624\826	06/18 04:02
2M17707.D	AC79175-002(20X)	Ocf	RR-100X	SGG 06/18/14	VOBTEXM-62	Aqueous	1	20	624	06/18 04:18
2M17708.D	AC79175-004(5X)		RR-5X	SGG 06/18/14	VOBTEXM-62	Aqueous	1	5	624	06/18 04:34
2M17709.D	MBS36482	Ti8	OK MBS36482	SGG 06/18/14		Aqueous	1	1	624\826	06/18 04:49
2M17710.D	AC79195-002(MS)	Ti8	OK MBS36482	SGG 06/18/14	VO15-624	Aqueous	1	1	624\826	06/18 05:05
2M17711.D	AC79195-002(MSD)	Ti8	OK MBS36482	SGG 06/18/14	VO15-624	Aqueous	1	1	624\826	06/18 05:22

Anc	Area Not Checked	En	Extraction Performed Past Hold	Co	Warning Possible Carry Over
An	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 ... not checked
B6m	Blank 600 series missing	Etn	Tdn/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for eoh
B8m	Blank 8000 series missing	Eto	Tdn Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evro	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16.R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16.I26	Initial cal 600 series failed Column 1 and or 2	R18.R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18.I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt.csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning..Ini cal file <> method..	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6.Sb6	Acid and or BN Surrogate Out (600 series)

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-172965

Prepared By: Batelli, Daniel | Department: Organics | ApprovedBy: DAN
Description: Ethyl ether/Furan Mix | BatchNumber: | ApproveDate: 09/18/13
Prep Date: 9/13/2013 | Concentration: 5000 ppm | Checked: Yes
Expiration Date: 9/13/2014 | Final Volume: 10 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
5555	Ethyl ether	50 mg	NEAT	5000 ppm
8141	Furan	50 mg	Neat neat	5000 ppm
1230	METHANOL	10 ml	NEAT	

Veritech Lot Number: V-172966

Prepared By: Batelli, Daniel | Department: Organics | ApprovedBy: DAN
Description: Ethyl ether/Furan Mix(2nd Source) | BatchNumber: | ApproveDate: 09/18/13
Prep Date: 9/13/2013 | Concentration: 5000 ppm | Checked: Yes
Expiration Date: 9/13/2014 | Final Volume: 10 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
5555	Ethyl ether	50 mg	NEAT	5000 ppm
8141	Furan	50 mg	Neat neat	5000 ppm
1230	METHANOL	10 ml	NEAT	

Veritech Lot Number: V-172993

Prepared By: Batelli, Daniel | Department: Organics | ApprovedBy: DAN
Description: VOA STOCK INT/SURR MIX | BatchNumber: | ApproveDate: 09/19/13
Prep Date: 9/19/2013 | Concentration: 1500 ppm | Checked: Yes
Expiration Date: 8/31/2014 | Final Volume: 100 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
6948	1,4-Dichlorobenzene(D4)	150 mg	neat neat	1500 ppm
1297	TOLUENE-D8	150 mg	NEAT	1500 ppm
8033	Fluorobenzene	150 mg	NEAT neat	1500 ppm
5769	Dibromofluoromethane	150 mg	NEAT	1500 ppm
8047	Chlorobenzene-d5	150 mg	NEAT neat	1500 ppm
8034	1,2-Dichloroethane-d4	150 mg	NEAT neat	1500 ppm
7966	Methanol	100 ml	neat neat	
5746	4-BROMOFLUOROBENZENE(1-BROMO-4-FLUOROBEN	150 mg	NEAT	1500 ppm

Veritech Lot Number: V-179161

Prepared By: Hamid, Akmal | Department: Organics | ApprovedBy: jean
Description: VOA ADD MIX | BatchNumber: | ApproveDate: 01/20/14
Prep Date: 12/30/2013 | Concentration: 5000 ppm | Checked: Yes
Expiration Date: 7/31/2014 | Final Volume: 10 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
2889	1,2,4,5-TETRAMETHYLBENZENE	50 mg	NEAT	5000 ppm
7554	p-Diethylbenzene	50 mg	Neat neat	5000 ppm
5533	p-Ethyltoluene	50 mg	Neat neat	5000 ppm
5531	Cyclohexanone	250 mg	Neat neat	25000 ppm
8315	Methanol		neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-182113

Prepared By: Previlon, Wilner
Description: VOA WORKING INT/SURR MIX
Prep Date: 2/27/2014
Expiration Date: 8/31/2014
Department: Organics
BatchNumber:
Concentration: 150 ppm
Final Volume: 250 ml
ApprovedBy: jean
ApproveDate: 03/03/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
7966	Methanol	225 ml	neat neat	
V-172993	VOA STOCK INT/SURR MIX	25 ml	1500 ppm	150 ppm

Veritech Lot Number: V-183755

Prepared By: Goring, Shawn
Description: BFB Tune Mix
Prep Date: 3/18/2014
Expiration Date: 8/31/2014
Department: Organics
BatchNumber:
Concentration: 50 ppm
Final Volume: 1.5 ml
ApprovedBy: jean
ApproveDate: 03/25/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-182113	VOA WORKING INT/SURR MIX	500 ul	150 ppm	50 ppm
1230	METHANOL	1000 ul	NEAT	

Veritech Lot Number: V-184432

Prepared By: Revolus, Jean
Description: Voa Extra Add Mix
Prep Date: 3/26/2014
Expiration Date: 6/30/2014
Department: Organics
BatchNumber:
Concentration: 2000-20000 p
Final Volume: 10 ml
ApprovedBy: jean
ApproveDate: 04/02/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
5101	Methyl methacrylate	20 mg	Neat	2000 ppm
7781	Ethyl methacrylate	20 mg	NEAT neat	2000 ppm
7780	Butyl methacrylate	20 mg	NEAT neat	2000 ppm
5098	n-Butyl acrylate	20 mg	Neat	2000 ppm
5097	n-Amyl acetate	20 mg	Neat	2000 ppm
5096	Iso-propyl acetate	20 mg	Neat	2000 ppm
5095	Ethyl acetate	20 mg	Neat	2000 ppm
7773	Methanol	10 ml	neat neat	
5013	d-Camphor	200 mg	NEAT	20000 ppm
5014	Camphene	20 mg	NEAT	2000 ppm

Veritech Lot Number: V-184443

Prepared By: Revolus, Jean
Description: Voa Extra Add Mix(2nd Source)
Prep Date: 3/26/2014
Expiration Date: 6/30/2014
Department: Organics
BatchNumber:
Concentration: 2000-20000 p
Final Volume: 10 ml
ApprovedBy: jean
ApproveDate: 04/02/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
5101	Methyl methacrylate	20 mg	Neat	2000 ppm
7781	Ethyl methacrylate	20 mg	NEAT neat	2000 ppm
7780	Butyl methacrylate	20 mg	NEAT neat	2000 ppm
5098	n-Butyl acrylate	20 mg	Neat	2000 ppm
5097	n-Amyl acetate	20 mg	Neat	2000 ppm
5096	Iso-propyl acetate	20 mg	Neat	2000 ppm
5095	Ethyl acetate	20 mg	Neat	2000 ppm
7773	Methanol	10 ml	neat neat	
5013	d-Camphor	200 mg	NEAT	20000 ppm
5014	Camphene	20 mg	NEAT	2000 ppm

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-186272

Prepared By: Goring, Shawn
Description: 200ppm VOA Working Std
Prep Date: 5/5/2014
Expiration Date: 6/30/2014
Department: Organics
BatchNumber:
Concentration: VARIOUS pp
Final Volume: 1 ml
ApprovedBy: jean
ApproveDate: 05/08/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
1230	METHANOL	220 ul	NEAT	neat
8203	Gases	100 ul	2000 ppm	200 ppm
8531	502/524 VOA CAL MIX	100 ul	2000 ppm	200 ppm
8530	8260 ADDITIONS(CAL MIX2)	100 ul	2000 ppm	200 ppm
8565	CUSTOM VOC STANDARD	100 ul	VARIOUS	various ppm
8211	tert-Amyl methyl ether	100 ul	2000 ppm	200 ppm
V-179161	VOA ADD MIX	40 ul	5000 ppm	various ppm
V-172965	Ethyl ether/Furan Mix	40 ul	5000 ppm	200 ppm
V-184432	Voa Extra Add Mix	100 ul	2000-20000 p	200 ppm
8245	Ethyl-tert-Butyl Ether(ETBE)	100 ul	2000 ppm	200 ppm

Veritech Lot Number: V-186273

Prepared By: Goring, Shawn
Description: MBS
Prep Date: 5/5/2014
Expiration Date: 6/30/2014
Department: Organics
BatchNumber:
Concentration: 100 ppm
Final Volume: 1 ml
ApprovedBy: jean
ApproveDate: 05/08/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
1230	METHANOL	610 ul	NEAT	neat neat
8192	Gases	50 ul	2000 ppm	100 ppm
8202	502/524 MegaMix	50 ul	2000 ppm	100 ppm
8650	ss 8260 Cal.Mix 2	50 ul	2000 ppm	100 ppm
8569	CUSTOM VOC STANDARD(2nd Source)	50 ul	VARIOUS	various ppm
7936	tert-Amyl methyl ether	50 ul	2000 ppm	100 ppm
V-179161	VOA ADD MIX	20 ul	5000 ppm	various ppm
V-184443	Voa Extra Add Mix(2nd Source)	50 ul	2000-20000 p	100-1000 pp
V-172966	Ethyl ether/Furan Mix(2nd Source)	20 ul	5000 ppm	100 ppm
7563	Ethyl-tert-Butyl Ether	50 ul	2000 ppm	100 ppm

Veritech Lot Number: V-187282

Prepared By: Previlon, Wilner
Description: 624/8260 CAL @ 250 PPB
Prep Date: 5/20/2014
Expiration Date: 5/27/2014
Department: Organics
BatchNumber: B-17408
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: jean
ApproveDate: 05/22/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-186272	200ppm VOA Working Std	125 ul	VARIOUS pp	250 ppb
5381	P&T Water	100 ml	Neat neat	
8197	Chlorodifluoromethane	125 ul	200 ppm	250 ppb

Veritech Lot Number: V-187283

Prepared By: Previlon, Wilner
Description: 624/8260 CAL @ 100 PPB
Prep Date: 5/20/2014
Expiration Date: 5/27/2014
Department: Organics
BatchNumber: B-17408
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: jean
ApproveDate: 05/22/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-186272	200ppm VOA Working Std	50 ul	VARIOUS pp	100 ppb
5381	P&T Water	100 ml	Neat neat	
8197	Chlorodifluoromethane	50 ul	200 ppm	100 ppb

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-187284

Prepared By: Previlon, Wilner | Department: Organics | ApprovedBy: jean
Description: 624/8260 CAL @ 50 PPB | BatchNumber: B-17408 | ApproveDate: 05/22/14
Prep Date: 5/20/2014 | Concentration: VARIOUS ppb | Checked: Yes
Expiration Date: 5/27/2014 | Final Volume: 100 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-186272	200ppm VOA Working Std	25 ul	VARIOUS pp	50 ppb
5381	P&T Water	100 ml	Neat neat	
8197	Chlorodifluoromethane	25 ul	200 ppm	50 ppb

Veritech Lot Number: V-187285

Prepared By: Previlon, Wilner | Department: Organics | ApprovedBy: jean
Description: 624/8260 CAL @ 20 PPB | BatchNumber: B-17408 | ApproveDate: 05/22/14
Prep Date: 5/20/2014 | Concentration: VARIOUS ppb | Checked: Yes
Expiration Date: 5/27/2014 | Final Volume: 100 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-186272	200ppm VOA Working Std	10 ul	VARIOUS pp	20 ppb
5381	P&T Water	100 ml	Neat neat	
8197	Chlorodifluoromethane	10 ul	200 ppm	20 ppb

Veritech Lot Number: V-187286

Prepared By: Previlon, Wilner | Department: Organics | ApprovedBy: jean
Description: 624/8260 CAL @ 10 PPB | BatchNumber: B-17408 | ApproveDate: 05/22/14
Prep Date: 5/20/2014 | Concentration: VARIOUS ppb | Checked: Yes
Expiration Date: 5/27/2014 | Final Volume: 100 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-186272	200ppm VOA Working Std	5 ul	VARIOUS pp	10 ppb
5381	P&T Water	100 ml	Neat neat	
8197	Chlorodifluoromethane	5 ul	200 ppm	10 ppb

Veritech Lot Number: V-187287

Prepared By: Previlon, Wilner | Department: Organics | ApprovedBy: jean
Description: 624/8260 CAL @ 5 PPB | BatchNumber: B-17408 | ApproveDate: 05/22/14
Prep Date: 5/20/2014 | Concentration: VARIOUS ppb | Checked: Yes
Expiration Date: 5/27/2014 | Final Volume: 100 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-186272	200ppm VOA Working Std	2.5 ul	VARIOUS pp	5 ppb
5381	P&T Water	100 ml	Neat neat	
8197	Chlorodifluoromethane	2.5 ul	200 ppm	5 ppb

Veritech Lot Number: V-187288

Prepared By: Previlon, Wilner | Department: Organics | ApprovedBy: jean
Description: 624/8260 CAL @ 1 PPB | BatchNumber: B-17408 | ApproveDate: 05/22/14
Prep Date: 5/20/2014 | Concentration: VARIOUS ppb | Checked: Yes
Expiration Date: 5/27/2014 | Final Volume: 100 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-186272	200ppm VOA Working Std	.5 ul	VARIOUS pp	1 ppb
5381	P&T Water	100 ml	Neat neat	
8197	Chlorodifluoromethane	.5 ul	200 ppm	1 ppb

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-187289

Prepared By: Previlon, Wilner
Description: 624/8260 CAL @ 0.5 PPB
Prep Date: 5/20/2014
Expiration Date: 5/27/2014
Department: Organics
BatchNumber: B-17408
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: jean
ApproveDate: 05/22/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-186272	200ppm VOA Working Std	.25 ul	VARIOUS pp	0.5 ppb
5381	P&T Water	100 ml	Neat neat	
8197	Chlorodifluoromethane	.25 ul	200 ppm	0.5 ppb

Veritech Lot Number: V-187290

Prepared By: Previlon, Wilner
Description: 624/8260 CAL @ 500 PPB
Prep Date: 5/20/2014
Expiration Date: 5/27/2014
Department: Organics
BatchNumber: B-17408
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: jean
ApproveDate: 05/22/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-186272	200ppm VOA Working Std	250 ul	VARIOUS pp	500 ppb
5381	P&T Water	100 ml	Neat neat	
8197	Chlorodifluoromethane	250 ul	200 ppm	500 ppb

Veritech Lot Number: V-187291

Prepared By: Previlon, Wilner
Description: ICV CAL @ 20 PPB
Prep Date: 5/20/2014
Expiration Date: 5/27/2014
Department: Organics
BatchNumber:
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: jean
ApproveDate: 05/22/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-186273	MBS	10 ul	100 ppm	20 ppb
5381	P&T Water	100 ml	Neat neat	neat
8197	Chlorodifluoromethane	20 ul	200 ppm	20 ppb

Veritech Lot Number: V-188723

Prepared By: Goring, Shawn
Description: CAL @ 20 PPB
Prep Date: 6/17/2014
Expiration Date: 6/24/2014
Department: Organics
BatchNumber:
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: jean
ApproveDate: 06/19/14
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-186272	200ppm VOA Working Std	10 ul	VARIOUS pp	20 ppb
5381	P&T Water	100 ml	Neat neat	
7414	Chlorodifluoromethane	10 ul	200 ppm	20 ppb

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 1230

Description
METHANOL

ApprovedBy: jean
ApproveDate: 07/30/09
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
FISHER	A453-1	045850	06/22/05	06/22/15	Revolus, Jean	36	1L	NEAT	

Veritech Control/Receipt Number: 1297

Description
TOLUENE-D8

ApprovedBy: jean
ApproveDate: 07/30/09
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SIGMA-ALDRICH	434388-5G	02504HB	09/06/05	09/30/15	Revolus, Jean	1	5g	NEAT	

Veritech Control/Receipt Number: 2889

Description
1,2,4,5-TETRAMETHYLBENZENE

ApprovedBy: jean
ApproveDate: 07/30/09
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ACROS ORGANI	409390050	A0214190	11/20/07	11/30/20	Revolus, Jean	1	1ML	NEAT	

Veritech Control/Receipt Number: 5013

Description
d-Camphor

ApprovedBy: jean
ApproveDate: 06/29/10
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CHEMSERVICE	F2404	402-140B	06/21/10	06/30/14	Revolus, Jean	1	2g	NEAT	

Veritech Control/Receipt Number: 5014

Description
Camphene

ApprovedBy: jean
ApproveDate: 06/29/10
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CHEMSERVICE	O-747	419-138A	06/21/10	03/31/15	Revolus, Jean	1	2g	NEAT	

Veritech Control/Receipt Number: 5095

Description
Ethyl acetate

ApprovedBy: jean
ApproveDate: 07/26/10
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CHEM SERVICE	O-412	433-138B	07/26/10	03/31/15	Revolus, Jean	1	1g	Neat	

Veritech Control/Receipt Number: 5096

Description
Iso-propyl acetate

ApprovedBy: jean
ApproveDate: 07/26/10
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CHEM SERVICE	F2536	428-14A	07/26/10	07/31/14	Revolus, Jean	1	5g	Neat	

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 5097

Description
n-Amyl acetate

ApprovedBy: jean
ApproveDate: 07/26/10
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CHEM SERVICE	o-2003	414-70B	07/26/10	11/30/14	Revolus, Jean	1	5g	Neat	

Veritech Control/Receipt Number: 5098

Description
n-Butyl acrylate

ApprovedBy: jean
ApproveDate: 07/26/10
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CHEM SERVICE	O-1004	409-80A	07/26/10	09/30/14	Revolus, Jean	1	10g	Neat	

Veritech Control/Receipt Number: 5101

Description
Methyl methacrylate

ApprovedBy: jean
ApproveDate: 07/26/10
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CHEM SERVICE	F982	422-28B	07/26/10	04/30/15	Revolus, Jean	1	5g	Neat	

Veritech Control/Receipt Number: 5381

Description
P&T Water

ApprovedBy: DAN
ApproveDate: 10/27/10
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Veritech	N/A	N/A	10/01/10	10/01/15	Batelli, Daniel	1	N/A	Neat	Neat

Veritech Control/Receipt Number: 5531

Description
Cyclohexanone

ApprovedBy: DAN
ApproveDate: 01/07/11
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ChemService	F2326	428-78B	12/28/10	07/31/14	Batelli, Daniel	1	5g	Neat	Neat

Veritech Control/Receipt Number: 5533

Description
p-Ethyltoluene

ApprovedBy: DAN
ApproveDate: 01/07/11
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ChemService	O-2413	453-143B	12/28/10	12/31/15	Batelli, Daniel	1	1g	Neat	Neat

Veritech Control/Receipt Number: 5555

Description
Ethyl ether

ApprovedBy: jean
ApproveDate: 01/19/11
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CHEMSERVICE	O-569	444-37B	01/18/11	03/31/15	Revolus, Jean	1	2g	NEAT	

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 5746

Description
4-BROMOFLUOROBENZENE(1-BROMO-4-FLUOROBENE

ApprovedBy: jean
ApproveDate: 03/15/11
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CHEM SERVICE	F833	426-67B	03/09/11	08/31/14	Revolus, Jean	1	5g	NEAT	

Veritech Control/Receipt Number: 5769

Description
Dibromofluoromethane

ApprovedBy: akmal
ApproveDate: 03/24/11
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
RESTEK	30634	A069728	03/21/11	08/31/14	Revolus, Jean	4	100 m	NEAT	

Veritech Control/Receipt Number: 6948

Description
1,4-Dichlorobenzene(D4)

ApprovedBy: akmal
ApproveDate: 04/23/12
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CIL	DLM-268-0	PR-18488/07257CB2	04/19/12	04/19/20	Hamid, Akmal	1	5g	neat	neat

Veritech Control/Receipt Number: 7414

Description
Chlorodifluoromethane

ApprovedBy: DAN
ApproveDate: 11/05/12
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Accustandard	ALR-CFC-003S-2X	211111240	10/23/12	11/17/21	Batelli, Daniel	30	1mL	200	ppm

Veritech Control/Receipt Number: 7554

Description
p-Diethylbenzene

ApprovedBy: dan
ApproveDate: 01/02/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ChemService	O-2296	1132000	12/31/13	12/31/16	Batelli, Daniel	1	100m	Neat	Neat

Veritech Control/Receipt Number: 7563

Description
Ethyl-tert-Butyl Ether

ApprovedBy: dan
ApproveDate: 01/04/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Restek	30628	A088495	01/02/13	05/31/17	Batelli, Daniel	2	1mL	2000	ppm

Veritech Control/Receipt Number: 7773

Description
Methanol

ApprovedBy: jean
ApproveDate: 04/17/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Spectrum	PT705	2BL0039	03/12/13	03/11/23	Lopez, Jose	30	1L	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 7780

Description
Butyl methacrylate

ApprovedBy: dan
ApproveDate: 03/13/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ChemService	N-11371-1G	605200	03/13/13	01/30/16	Batelli, Daniel	1	1g	NEAT	NEAT

Veritech Control/Receipt Number: 7781

Description
Ethyl methacrylate

ApprovedBy: dan
ApproveDate: 03/13/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ChemService	N-11903-5G	1188000	03/13/13	01/31/17	Batelli, Daniel	1	5g	NEAT	NEAT

Veritech Control/Receipt Number: 7936

Description
tert-Amyl methyl ether

ApprovedBy: dan
ApproveDate: 05/31/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Restek	506737	A078931	05/20/13	01/31/16	Batelli, Daniel	3	1mL	2000	ppm

Veritech Control/Receipt Number: 7966

Description
Methanol

ApprovedBy: jean
ApproveDate: 06/20/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
spectrum	PT705-02	2CE0318	06/19/13	06/18/18	Lopez, Jose	30	1L	neat	neat

Veritech Control/Receipt Number: 8033

Description
Fluorobenzene

ApprovedBy: dan
ApproveDate: 08/01/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ChemService	F839	1361700	07/30/13	03/31/19	Batelli, Daniel	1	2g	NEAT	NEAT

Veritech Control/Receipt Number: 8034

Description
1,2-Dichloroethane-d4

ApprovedBy: dan
ApproveDate: 08/01/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	44-2228	LB98031V	07/30/13	02/29/16	Batelli, Daniel	1	1000	NEAT	NEAT

Veritech Control/Receipt Number: 8047

Description
Chlorobenzene-d5

ApprovedBy: dan
ApproveDate: 08/13/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	44-2517	LC00086V	08/09/13	07/31/16	Batelli, Daniel	1	500m	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 8141

Description
Furan

ApprovedBy: DAN
ApproveDate: 09/18/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ChemService	N-12101-10G	1927800	09/13/13	09/30/16	Batelli, Daniel	1	10g	Neat	Neat

Veritech Control/Receipt Number: 8192

Description
Gases

ApprovedBy: dan
ApproveDate: 10/11/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	48799-U	LCS00573	10/10/13	07/18/14	Batelli, Daniel	4	1mL	2000	ppm

Veritech Control/Receipt Number: 8197

Description
Chlorodifluoromethane

ApprovedBy: dan
ApproveDate: 10/11/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Accustandard	M-REF-03	211111240	10/10/13	11/17/21	Batelli, Daniel	30	1mL	200	ppm

Veritech Control/Receipt Number: 8202

Description
502/524 MegaMix

ApprovedBy: DAN
ApproveDate: 10/11/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Restek	30431	A094950	10/10/13	04/30/15	Batelli, Daniel	3	1mL	2000	ppm

Veritech Control/Receipt Number: 8203

Description
Gases

ApprovedBy: jean
ApproveDate: 01/09/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Restek	30042	A095831	10/10/13	02/29/20	Batelli, Daniel	4	1mL	2000	ppm

Veritech Control/Receipt Number: 8211

Description
tert-Amyl methyl ether

ApprovedBy: jean
ApproveDate: 01/09/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	5-06737	LB86221	10/15/13	07/31/14	Batelli, Daniel	4	1mL	2000	ppm

Veritech Control/Receipt Number: 8245

Description
Ethyl-tert-Butyl Ether(ETBE)

ApprovedBy: jean
ApproveDate: 01/09/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
RESTEK	30628	A098786	10/31/13	10/31/18	Revolus, Jean	4	1ml	2000	PPM

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 8315

Description
Methanol

ApprovedBy: jean
ApproveDate: 01/09/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Spectrum	PT705	2CH0087	12/04/13	07/27/15	Lopez, Jose	48	1L	neat	neat

Veritech Control/Receipt Number: 8530

Description
8260 ADDITIONS(CAL MIX2)

ApprovedBy: jean
ApproveDate: 02/28/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SUPELCO	46831-U	LC02539	02/28/14	07/31/16	Revolus, Jean	4	1ml	2000	PPM

Veritech Control/Receipt Number: 8531

Description
502/524 VOA CAL MIX

ApprovedBy: jean
ApproveDate: 02/28/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SUPELCO	5-02111	LC03979	02/28/14	10/31/15	Revolus, Jean	2	1ml	2000	PPM

Veritech Control/Receipt Number: 8565

Description
CUSTOM VOC STANDARD

ApprovedBy: jean
ApproveDate: 04/22/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ACCUSTANDAR	S-16418	214031149	03/18/14	09/14/14	Revolus, Jean	5	1ml	VARIOU	

Veritech Control/Receipt Number: 8569

Description
CUSTOM VOC STANDARD(2nd Source)

ApprovedBy: jean
ApproveDate: 04/22/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ACCUSTANDAR	S-16418	214031157	03/18/14	09/14/14	Revolus, Jean	5	1ml	VARIOU	

Veritech Control/Receipt Number: 8650

Description
ss 8260 Cal.Mix 2

ApprovedBy: jean
ApproveDate: 04/22/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	4S6831-U	LC01014	04/16/14	07/31/15	Hamid, Akmal	4	1ml	2000	PPM

HC·V
HAMPTONCLARKE·VERITECH

Last Page of Report