ANALYTICAL REPORT

Job Number: 180-82446-1

Job Description: Harbor Isle

For:
Posillico Dev Company at Harbor Isle LLC
1750 New Highway
Farmingdale, NY 11735

Attention: James Smyth

Approved for release.
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Project Management Assistant I
10/17/2018 12:27 PM

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10/17/2018

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Job Number: 180-82446-1

Job Description: Harbor Isle

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Approved for release.
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Designee for
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CASE NARRATIVE

Client: Posillico Dev Company at Harbor Isle LLC

Project: Harbor Isle

Report Number: 180-82446-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT
The samples were received on 9/28/2018 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.0º C.

Receipt Exceptions

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): POS-SED-S12-S2 (5-10') (180-82446-2). The container labels list POS-SED-S12-S1 (5-10'), while the COC lists POS-SED-S12-S2 (5-10'). The client was contacted, and the lab was instructed to log in per the COC.

A trip blank was submitted for analysis with these samples; however, it was not listed on the Chain of Custody (COC). The client confirmed that the trip blank is to be analyzed for BTEX.

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. Mercury is not listed on the COC but it required for all samples.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

VOLATILE ORGANIC COMPOUNDS (GC-MS)
Samples POS-SED-S12-S1 (0-0.5') (180-82446-1), POS-SED-S12-S2 (5-10') (180-82446-2), POS-SED-R14-S1 (0-0.5') (180-82446-3), POS-SED-R14-S2 (5-10') (180-82446-4), POS-SED-L15-S1 (0-0.5') (180-82446-5) and POS-SED-L15-S2 (5-10') (180-82446-6) were analyzed for Volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260C. The samples were prepared and analyzed on 10/02/2018.

Internal standard (ISTD) response for TBA-d9 for the following sample was outside acceptance criteria: POS-SED-S12-S2 (5-10') (180-82446-2). This ISTD does not correspond to any of the requested target compounds; therefore, the data have been reported.

Refer to the QC report for details.

No other difficulties were encountered during the volatiles analysis.

All other quality control parameters were within the acceptance limits.

VOLATILE ORGANIC COMPOUNDS (GC-MS)
Sample TRIP BLANK (180-82446-7) was analyzed for Volatile organic compounds (GC-MS) in accordance with EPA SW-846 Methods 8260C. The samples were analyzed on 10/01/2018.

No difficulties were encountered during the volatiles analysis.

All quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS)
Samples POS-SED-S12-S1 (0-0.5') (180-82446-1), POS-SED-S12-S2 (5-10') (180-82446-2), POS-SED-R14-S1 (0-0.5') (180-82446-3), POS-SED-R14-S2 (5-10') (180-82446-4), POS-SED-L15-S1 (0-0.5') (180-82446-5) and POS-SED-L15-S2 (5-10') (180-82446-6) were analyzed for Semivolatile organic compounds (GC/MS) in accordance with EPA SW-846 Method 8270D Low Level (LL). The samples were prepared on 10/08/2018 and analyzed on 10/14/2018.

Benzo[g,h,i]perylene, Dibenz(a,h)anthracene and Indeno[1,2,3-cd]pyrene failed the recovery criteria high for the Matrix Spike Duplicate (MSD) of sample 180-82503-2 in batch 180-259743. Several analytes exceeded the RPD limit.

Refer to the QC report for details.

Samples POS-SED-S12-S1 (0-0.5') (180-82446-1)[4X], POS-SED-S12-S2 (5-10') (180-82446-2)[5X], POS-SED-R14-S1 (0-0.5') (180-82446-3)[10X], POS-SED-R14-S2 (5-10') (180-82446-4)[4X], POS-SED-L15-S1 (0-0.5') (180-82446-5)[10X] and POS-SED-L15-S2 (5-10') (180-82446-6)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

TOTAL METALS (ICP/MS)
Samples POS-SED-S12-S1 (0-0.5') (180-82446-1), POS-SED-S12-S2 (5-10') (180-82446-2), POS-SED-R14-S1 (0-0.5') (180-82446-3), POS-SED-R14-S2 (5-10') (180-82446-4), POS-SED-L15-S1 (0-0.5') (180-82446-5) and POS-SED-L15-S2 (5-10') (180-82446-6) were analyzed for Total Metals (ICP/MS) in accordance with EPA SW-846 Method 6020A. The samples were prepared on 10/02/2018 and analyzed on 10/09/2018.

Lead failed the recovery criteria high for the Matrix Spike/Matrix Spike Duplicate (MS/MSD) of sample 180-82502-5 in batch 180-259407.

Refer to the QC report for details.

No other difficulties were encountered during the Metals analysis.

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY
Samples POS-SED-S12-S1 (0-0.5') (180-82446-1), POS-SED-S12-S2 (5-10') (180-82446-2), POS-SED-R14-S1 (0-0.5') (180-82446-3), POS-SED-R14-S2 (5-10') (180-82446-4), POS-SED-L15-S1 (0-0.5') (180-82446-5) and POS-SED-L15-S2 (5-10') (180-82446-6) were analyzed for total mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared on 10/01/2018 and analyzed on 10/02/2018.

No difficulties were encountered during the Hg analysis.

All quality control parameters were within the acceptance limits.

LLOYD KAHN METHOD (TOTAL ORGANIC CARBON)
Samples POS-SED-S12-S1 (0-0.5') (180-82446-1), POS-SED-S12-S2 (5-10') (180-82446-2), POS-SED-R14-S1 (0-0.5') (180-82446-3), POS-SED-R14-S2 (5-10') (180-82446-4), POS-SED-L15-S1 (0-0.5') (180-82446-5) and POS-SED-L15-S2 (5-10') (180-82446-6) were analyzed for Lloyd Kahn Method (total organic carbon) in accordance with Lloyd Kahn Method. The samples were analyzed on 10/03/2018 and 10/04/2018.

Please note that the reporting limit for Lloyd Kahn TOC analysis is a nominal value and does not reflect adjustments in sample mass processed on an individual basis. POS-SED-S12-S2 (5-10') (180-82446-2), POS-SED-R14-S1 (0-0.5') (180-82446-3), POS-SED-R14-S2 (5-10') (180-82446-4), POS-SED-L15-S1 (0-0.5') (180-82446-5), POS-SED-L15-S2 (5-10') (180-82446-6), (180-82502-B-5), (180-82502-E-5 DU), (180-82502-B-5 MS) and (180-82502-B-5 MSD)

Please note that the reporting limit for Lloyd Kahn TOC analysis is a nominal value and does not reflect adjustments in sample mass processed on an individual basis. POS-SED-S12-S1 (0-0.5') (180-82446-1), POS-SED-R14-S1 (0-0.5') (180-82446-3), (180-82571-B-8), (180-82571-B-8 DU), (180-82571-B-8 MS) and (180-82571-B-8 MSD)

The sample duplicate (DUP) precision for analytical batch 180-258943 was outside control limits. Sample non-homogeneity is suspected as batch LCS passed required QC.

Refer to the QC report for details.

No other difficulties were encountered during the TOC analysis.

All other quality control parameters were within the acceptance limits.

PERCENT SOLIDS/PERCENT MOISTURE
Samples POS-SED-S12-S1 (0-0.5') (180-82446-1), POS-SED-S12-S2 (5-10') (180-82446-2), POS-SED-R14-S1 (0-0.5') (180-82446-3),

POS-SED-R14-S2 (5-10') (180-82446-4), POS-SED-L15-S1 (0-0.5') (180-82446-5) and POS-SED-L15-S2 (5-10') (180-82446-6) were analyzed for percent solids/percent moisture in accordance with EPA Method CLPISM01.2 (Exhibit D) Modified. The samples were analyzed on 10/10/2018.

No difficulties were encountered during the %solids/moisture analysis.

All quality control parameters were within the acceptance limits.

Sample Summary

Client: Posillico Dev Company at Harbor Isle LLC
Project/Site: Harbor Isle

TestAmerica Job ID: 180-82446-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-82446-1	POS-SED-S12-S1 (0-0.5')	Sediment	09/27/18 10:20	09/28/18 09:00
180-82446-2	POS-SED-S12-S2 (5-10')	Sediment	09/27/18 10:45	09/28/18 09:00
180-82446-3	POS-SED-R14-S1 (0-0.5')	Sediment	09/27/18 13:35	09/28/18 09:00
180-82446-4	POS-SED-R14-S2 (5-10')	Sediment	09/27/18 13:35	09/28/18 09:00
180-82446-5	POS-SED-L15-S1 (0-0.5')	Sediment	09/27/18 15:20	09/28/18 09:00
180-82446-6	POS-SED-L15-S2 (5-10')	Sediment	09/27/18 15:30	09/28/18 09:00
180-82446-7	TRIP BLANK	Water	09/27/18 00:00	09/28/18 09:00

Detection Summary

Client: Posillico Dev Company at Harbor Isle LLC
Project/Site: Harbor Isle

TestAmerica Job ID: 180-82446-1

Client Sample ID: POS-SED-S12-S1 (0-0.5') — Lab Sample ID: 180-82446-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	34		16	4.1	ug/Kg	4	☼	EPA 8270D LL	Total/NA
Benzo[a]anthracene	37		16	3.0	ug/Kg	4	☼	EPA 8270D LL	Total/NA
Benzo[b]fluoranthene	54		16	3.9	ug/Kg	4	☼	EPA 8270D LL	Total/NA
Benzo[k]fluoranthene	26		16	4.8	ug/Kg	4	☼	EPA 8270D LL	Total/NA
Benzo[g,h,i]perylene	34		16	3.4	ug/Kg	4	☼	EPA 8270D LL	Total/NA
Benzo[a]pyrene	42		16	3.5	ug/Kg	4	☼	EPA 8270D LL	Total/NA
Chrysene	63		16	3.1	ug/Kg	4	☼	EPA 8270D LL	Total/NA
Dibenz(a,h)anthracene	9.0	J	16	3.6	ug/Kg	4	☼	EPA 8270D LL	Total/NA
Fluoranthene	81		16	4.2	ug/Kg	4	☼	EPA 8270D LL	Total/NA
Fluorene	6.4	J	16	3.1	ug/Kg	4	☼	EPA 8270D LL	Total/NA
Indeno[1,2,3-cd]pyrene	26		16	3.2	ug/Kg	4	☼	EPA 8270D LL	Total/NA
Phenanthrene	36		16	4.3	ug/Kg	4	☼	EPA 8270D LL	Total/NA
Pyrene	89		16	3.8	ug/Kg	4	☼	EPA 8270D LL	Total/NA
Acenaphthene	11	J	16	4.6	ug/Kg	4	☼	EPA 8270D LL	Total/NA
Acenaphthylene	8.1	J	16	3.5	ug/Kg	4	☼	EPA 8270D LL	Total/NA
Naphthalene	29		16	3.1	ug/Kg	4	☼	EPA 8270D LL	Total/NA
Arsenic	1.5		0.060	0.016	mg/Kg	1	☼	EPA 6020A	Total/NA
Cadmium	0.074		0.060	0.010	mg/Kg	1	☼	EPA 6020A	Total/NA
Chromium	6.5		0.12	0.040	mg/Kg	1	☼	EPA 6020A	Total/NA
Copper	6.8		0.12	0.068	mg/Kg	1	☼	EPA 6020A	Total/NA
Lead	13.3		0.060	0.022	mg/Kg	1	☼	EPA 6020A	Total/NA
Nickel	3.3		0.060	0.037	mg/Kg	1	☼	EPA 6020A	Total/NA
Silver	0.047	J	0.060	0.0084	mg/Kg	1	☼	EPA 6020A	Total/NA
Zinc	89.5		0.30	0.20	mg/Kg	1	☼	EPA 6020A	Total/NA
Mercury	0.017	J	0.020	0.0044	mg/Kg	1	☼	EPA 7471B	Total/NA
Total Organic Carbon - Duplicates	2180		1200	898	mg/Kg	1	☼	EPA-Lloyd Kahn	Total/NA

Client Sample ID: POS-SED-S12-S2 (5-10') — Lab Sample ID: 180-82446-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	97		22	5.6	ug/Kg	5	☼	EPA 8270D LL	Total/NA
Benzo[a]anthracene	130		22	4.1	ug/Kg	5	☼	EPA 8270D LL	Total/NA
Benzo[b]fluoranthene	150		22	5.3	ug/Kg	5	☼	EPA 8270D LL	Total/NA
Benzo[k]fluoranthene	50		22	6.5	ug/Kg	5	☼	EPA 8270D LL	Total/NA
Benzo[g,h,i]perylene	75		22	4.7	ug/Kg	5	☼	EPA 8270D LL	Total/NA
Benzo[a]pyrene	110		22	4.7	ug/Kg	5	☼	EPA 8270D LL	Total/NA
Chrysene	210		22	4.2	ug/Kg	5	☼	EPA 8270D LL	Total/NA
Dibenz(a,h)anthracene	18	J	22	4.8	ug/Kg	5	☼	EPA 8270D LL	Total/NA
Fluoranthene	290		22	5.7	ug/Kg	5	☼	EPA 8270D LL	Total/NA
Fluorene	26		22	4.2	ug/Kg	5	☼	EPA 8270D LL	Total/NA
Indeno[1,2,3-cd]pyrene	72		22	4.4	ug/Kg	5	☼	EPA 8270D LL	Total/NA
Phenanthrene	310		22	5.8	ug/Kg	5	☼	EPA 8270D LL	Total/NA
Pyrene	240		22	5.1	ug/Kg	5	☼	EPA 8270D LL	Total/NA
Acenaphthene	31		22	6.2	ug/Kg	5	☼	EPA 8270D LL	Total/NA
Acenaphthylene	15	J	22	4.7	ug/Kg	5	☼	EPA 8270D LL	Total/NA
Naphthalene	28		22	4.2	ug/Kg	5	☼	EPA 8270D LL	Total/NA
Arsenic	2.7		0.064	0.017	mg/Kg	1	☼	EPA 6020A	Total/NA
Cadmium	0.12		0.064	0.011	mg/Kg	1	☼	EPA 6020A	Total/NA
Chromium	12.6		0.13	0.042	mg/Kg	1	☼	EPA 6020A	Total/NA
Copper	7.1		0.13	0.073	mg/Kg	1	☼	EPA 6020A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: POS-SED-S12-S2 (5-10') (Continued) — Lab Sample ID: 180-82446-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	8.1		0.064	0.023	mg/Kg	1	☼	EPA 6020A	Total/NA
Nickel	5.4		0.064	0.040	mg/Kg	1	☼	EPA 6020A	Total/NA
Silver	0.074		0.064	0.0090	mg/Kg	1	☼	EPA 6020A	Total/NA
Zinc	16.5		0.32	0.21	mg/Kg	1	☼	EPA 6020A	Total/NA
Total Organic Carbon - Duplicates	3050		1290	964	mg/Kg	1	☼	EPA-Lloyd Kahn	Total/NA

Client Sample ID: POS-SED-R14-S1 (0-0.5') — Lab Sample ID: 180-82446-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	29	J	47	12	ug/Kg	10	☼	EPA 8270D LL	Total/NA
Benzo[a]anthracene	86		47	8.8	ug/Kg	10	☼	EPA 8270D LL	Total/NA
Benzo[b]fluoranthene	120		47	11	ug/Kg	10	☼	EPA 8270D LL	Total/NA
Benzo[k]fluoranthene	48		47	14	ug/Kg	10	☼	EPA 8270D LL	Total/NA
Benzo[g,h,i]perylene	80		47	10	ug/Kg	10	☼	EPA 8270D LL	Total/NA
Benzo[a]pyrene	95		47	10	ug/Kg	10	☼	EPA 8270D LL	Total/NA
Chrysene	93		47	9.1	ug/Kg	10	☼	EPA 8270D LL	Total/NA
Dibenz(a,h)anthracene	12	J	47	10	ug/Kg	10	☼	EPA 8270D LL	Total/NA
Fluoranthene	160		47	12	ug/Kg	10	☼	EPA 8270D LL	Total/NA
Fluorene	10	J	47	9.1	ug/Kg	10	☼	EPA 8270D LL	Total/NA
Indeno[1,2,3-cd]pyrene	59		47	9.4	ug/Kg	10	☼	EPA 8270D LL	Total/NA
Phenanthrene	70		47	12	ug/Kg	10	☼	EPA 8270D LL	Total/NA
Pyrene	210		47	11	ug/Kg	10	☼	EPA 8270D LL	Total/NA
Acenaphthylene	19	J	47	10	ug/Kg	10	☼	EPA 8270D LL	Total/NA
Naphthalene	13	J	47	9.1	ug/Kg	10	☼	EPA 8270D LL	Total/NA
Arsenic	1.9		0.070	0.018	mg/Kg	1	☼	EPA 6020A	Total/NA
Cadmium	0.10		0.070	0.012	mg/Kg	1	☼	EPA 6020A	Total/NA
Chromium	7.6		0.14	0.046	mg/Kg	1	☼	EPA 6020A	Total/NA
Copper	7.1		0.14	0.080	mg/Kg	1	☼	EPA 6020A	Total/NA
Lead	20.7		0.070	0.025	mg/Kg	1	☼	EPA 6020A	Total/NA
Nickel	3.6		0.070	0.044	mg/Kg	1	☼	EPA 6020A	Total/NA
Silver	0.093		0.070	0.0099	mg/Kg	1	☼	EPA 6020A	Total/NA
Zinc	21.3		0.35	0.24	mg/Kg	1	☼	EPA 6020A	Total/NA
Mercury	0.033		0.022	0.0049	mg/Kg	1	☼	EPA 7471B	Total/NA
Total Organic Carbon - Duplicates	5060		1390	1040	mg/Kg	1	☼	EPA-Lloyd Kahn	Total/NA

Client Sample ID: POS-SED-R14-S2 (5-10') — Lab Sample ID: 180-82446-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	5.2	J	19	4.9	ug/Kg	4	☼	EPA 8270D LL	Total/NA
Benzo[a]anthracene	15	J	19	3.6	ug/Kg	4	☼	EPA 8270D LL	Total/NA
Benzo[b]fluoranthene	22		19	4.7	ug/Kg	4	☼	EPA 8270D LL	Total/NA
Benzo[k]fluoranthene	10	J	19	5.7	ug/Kg	4	☼	EPA 8270D LL	Total/NA
Benzo[g,h,i]perylene	12	J	19	4.1	ug/Kg	4	☼	EPA 8270D LL	Total/NA
Benzo[a]pyrene	15	J	19	4.1	ug/Kg	4	☼	EPA 8270D LL	Total/NA
Chrysene	17	J	19	3.7	ug/Kg	4	☼	EPA 8270D LL	Total/NA
Fluoranthene	35		19	5.0	ug/Kg	4	☼	EPA 8270D LL	Total/NA
Indeno[1,2,3-cd]pyrene	12	J	19	3.8	ug/Kg	4	☼	EPA 8270D LL	Total/NA
Phenanthrene	16	J	19	5.1	ug/Kg	4	☼	EPA 8270D LL	Total/NA
Pyrene	36		19	4.5	ug/Kg	4	☼	EPA 8270D LL	Total/NA
Arsenic	4.3		0.072	0.019	mg/Kg	1	☼	EPA 6020A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: POS-SED-R14-S2 (5-10') (Continued) — Lab Sample ID: 180-82446-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.29		0.072	0.012	mg/Kg	1	☼	EPA 6020A	Total/NA
Chromium	17.7		0.14	0.048	mg/Kg	1	☼	EPA 6020A	Total/NA
Copper	7.3		0.14	0.082	mg/Kg	1	☼	EPA 6020A	Total/NA
Lead	7.3		0.072	0.026	mg/Kg	1	☼	EPA 6020A	Total/NA
Nickel	9.2		0.072	0.045	mg/Kg	1	☼	EPA 6020A	Total/NA
Silver	0.040	J	0.072	0.010	mg/Kg	1	☼	EPA 6020A	Total/NA
Zinc	25.6		0.36	0.24	mg/Kg	1	☼	EPA 6020A	Total/NA
Mercury	0.0084	J	0.024	0.0054	mg/Kg	1	☼	EPA 7471B	Total/NA
Total Organic Carbon - Duplicates	9530		1430	1070	mg/Kg	1	☼	EPA-Lloyd Kahn	Total/NA

Client Sample ID: POS-SED-L15-S1 (0-0.5') — Lab Sample ID: 180-82446-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	69		41	11	ug/Kg	10	☼	EPA 8270D LL	Total/NA
Benzo[a]anthracene	240		41	7.7	ug/Kg	10	☼	EPA 8270D LL	Total/NA
Benzo[b]fluoranthene	360		41	10	ug/Kg	10	☼	EPA 8270D LL	Total/NA
Benzo[k]fluoranthene	140		41	12	ug/Kg	10	☼	EPA 8270D LL	Total/NA
Benzo[g,h,i]perylene	230		41	8.8	ug/Kg	10	☼	EPA 8270D LL	Total/NA
Benzo[a]pyrene	280		41	8.9	ug/Kg	10	☼	EPA 8270D LL	Total/NA
Chrysene	300		41	8.0	ug/Kg	10	☼	EPA 8270D LL	Total/NA
Dibenz(a,h)anthracene	65		41	9.1	ug/Kg	10	☼	EPA 8270D LL	Total/NA
Fluoranthene	570		41	11	ug/Kg	10	☼	EPA 8270D LL	Total/NA
Fluorene	16	J	41	8.0	ug/Kg	10	☼	EPA 8270D LL	Total/NA
Indeno[1,2,3-cd]pyrene	190		41	8.3	ug/Kg	10	☼	EPA 8270D LL	Total/NA
Phenanthrene	200		41	11	ug/Kg	10	☼	EPA 8270D LL	Total/NA
Pyrene	440		41	9.7	ug/Kg	10	☼	EPA 8270D LL	Total/NA
Acenaphthene	21	J	41	12	ug/Kg	10	☼	EPA 8270D LL	Total/NA
Acenaphthylene	35	J	41	8.9	ug/Kg	10	☼	EPA 8270D LL	Total/NA
Arsenic	1.6		0.061	0.016	mg/Kg	1	☼	EPA 6020A	Total/NA
Cadmium	0.17		0.061	0.010	mg/Kg	1	☼	EPA 6020A	Total/NA
Chromium	7.4		0.12	0.041	mg/Kg	1	☼	EPA 6020A	Total/NA
Copper	15.5		0.12	0.070	mg/Kg	1	☼	EPA 6020A	Total/NA
Lead	46.2		0.061	0.022	mg/Kg	1	☼	EPA 6020A	Total/NA
Nickel	4.9		0.061	0.038	mg/Kg	1	☼	EPA 6020A	Total/NA
Silver	0.14		0.061	0.0086	mg/Kg	1	☼	EPA 6020A	Total/NA
Zinc	41.1		0.31	0.21	mg/Kg	1	☼	EPA 6020A	Total/NA
Mercury	0.026		0.021	0.0046	mg/Kg	1	☼	EPA 7471B	Total/NA
Total Organic Carbon - Duplicates	2640		1220	912	mg/Kg	1	☼	EPA-Lloyd Kahn	Total/NA

Client Sample ID: POS-SED-L15-S2 (5-10') — Lab Sample ID: 180-82446-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	24	J	26	6.8	ug/Kg	5	☼	EPA 8270D LL	Total/NA
Benzo[a]anthracene	68		26	5.0	ug/Kg	5	☼	EPA 8270D LL	Total/NA
Benzo[b]fluoranthene	100		26	6.5	ug/Kg	5	☼	EPA 8270D LL	Total/NA
Benzo[k]fluoranthene	49		26	7.9	ug/Kg	5	☼	EPA 8270D LL	Total/NA
Benzo[g,h,i]perylene	56		26	5.7	ug/Kg	5	☼	EPA 8270D LL	Total/NA
Benzo[a]pyrene	75		26	5.7	ug/Kg	5	☼	EPA 8270D LL	Total/NA
Chrysene	88		26	5.2	ug/Kg	5	☼	EPA 8270D LL	Total/NA
Dibenz(a,h)anthracene	17	J	26	5.9	ug/Kg	5	☼	EPA 8270D LL	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Posillico Dev Company at Harbor Isle LLC
Project/Site: Harbor Isle

TestAmerica Job ID: 180-82446-1

Client Sample ID: POS-SED-L15-S2 (5-10') (Continued) — Lab Sample ID: 180-82446-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	160		26	6.9	ug/Kg	5	☼	EPA 8270D LL	Total/NA
Fluorene	8.7	J	26	5.2	ug/Kg	5	☼	EPA 8270D LL	Total/NA
Indeno[1,2,3-cd]pyrene	49		26	5.3	ug/Kg	5	☼	EPA 8270D LL	Total/NA
Phenanthrene	110		26	7.1	ug/Kg	5	☼	EPA 8270D LL	Total/NA
Pyrene	190		26	6.2	ug/Kg	5	☼	EPA 8270D LL	Total/NA
Acenaphthene	8.8	J	26	7.6	ug/Kg	5	☼	EPA 8270D LL	Total/NA
Acenaphthylene	12	J	26	5.8	ug/Kg	5	☼	EPA 8270D LL	Total/NA
Naphthalene	5.5	J	26	5.1	ug/Kg	5	☼	EPA 8270D LL	Total/NA
Arsenic	9.1		0.080	0.021	mg/Kg	1	☼	EPA 6020A	Total/NA
Cadmium	0.49		0.080	0.014	mg/Kg	1	☼	EPA 6020A	Total/NA
Chromium	31.0		0.16	0.053	mg/Kg	1	☼	EPA 6020A	Total/NA
Copper	20.0		0.16	0.091	mg/Kg	1	☼	EPA 6020A	Total/NA
Lead	22.1		0.080	0.029	mg/Kg	1	☼	EPA 6020A	Total/NA
Nickel	15.0		0.080	0.049	mg/Kg	1	☼	EPA 6020A	Total/NA
Silver	0.22		0.080	0.011	mg/Kg	1	☼	EPA 6020A	Total/NA
Zinc	56.9		0.40	0.27	mg/Kg	1	☼	EPA 6020A	Total/NA
Mercury	0.15		0.026	0.0058	mg/Kg	1	☼	EPA 7471B	Total/NA
Total Organic Carbon - Duplicates	12300		1580	1180	mg/Kg	1	☼	EPA-Lloyd Kahn	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 180-82446-7

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Posillico Dev Company at Harbor Isle LLC
Project/Site: Harbor Isle

TestAmerica Job ID: 180-82446-1

Method	Method Description	Protocol	Laboratory
EPA 8260C	Volatile Organic Compounds by GC/MS	SW846	TAL PIT
EPA 8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL PIT
EPA 6020A	Metals (ICP/MS)	SW846	TAL PIT
EPA 7471B	Mercury (CVAA)	SW846	TAL PIT
3550B	Percent Moisture	SW846	TAL PIT
EPA-Lloyd Kahn	Organic Carbon, Total (TOC)	EPA	TAL PIT
3050B	Preparation, Metals	SW846	TAL PIT
3541	Automated Soxhlet Extraction (Low Level)	SW846	TAL PIT
5030C	Purge and Trap	SW846	TAL PIT
5035	Closed System Purge and Trap	SW846	TAL PIT
7471B	Preparation, Mercury	SW846	TAL PIT

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Client Sample Results

Client: Posillico Dev Company at Harbor Isle LLC
Project/Site: Harbor Isle

TestAmerica Job ID: 180-82446-1

Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: POS-SED-S12-S1 (0-0.5')
Date Collected: 09/27/18 10:20
Date Received: 09/28/18 09:00

Lab Sample ID: 180-82446-1
Matrix: Sediment
Percent Solids: 83.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.40	U	1.0	0.40	ug/Kg	☼	10/02/18 05:05	10/02/18 13:34	1
Toluene	0.34	U	1.0	0.34	ug/Kg	☼	10/02/18 05:05	10/02/18 13:34	1
Ethylbenzene	0.44	U	1.0	0.44	ug/Kg	☼	10/02/18 05:05	10/02/18 13:34	1
Xylenes, Total	0.88	U	2.0	0.88	ug/Kg	☼	10/02/18 05:05	10/02/18 13:34	1
m-Xylene & p-Xylene	0.38	U	1.0	0.38	ug/Kg	☼	10/02/18 05:05	10/02/18 13:34	1
o-Xylene	0.50	U	1.0	0.50	ug/Kg	☼	10/02/18 05:05	10/02/18 13:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*69 - 110*	*10/02/18 05:05*	*10/02/18 13:34*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 110*	*10/02/18 05:05*	*10/02/18 13:34*	*1*
Dibromofluoromethane (Surr)	*103*		*74 - 114*	*10/02/18 05:05*	*10/02/18 13:34*	*1*
Toluene-d8 (Surr)	*111*		*83 - 124*	*10/02/18 05:05*	*10/02/18 13:34*	*1*

Client Sample Results

Client: Posillico Dev Company at Harbor Isle LLC
Project/Site: Harbor Isle

TestAmerica Job ID: 180-82446-1

Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: POS-SED-S12-S2 (5-10')
Date Collected: 09/27/18 10:45
Date Received: 09/28/18 09:00

Lab Sample ID: 180-82446-2
Matrix: Sediment
Percent Solids: 77.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	3.0	U	7.6	3.0	ug/Kg	☼	10/02/18 05:05	10/02/18 12:19	1
Toluene	2.6	U	7.6	2.6	ug/Kg	☼	10/02/18 05:05	10/02/18 12:19	1
Ethylbenzene	3.3	U	7.6	3.3	ug/Kg	☼	10/02/18 05:05	10/02/18 12:19	1
Xylenes, Total	6.6	U	15	6.6	ug/Kg	☼	10/02/18 05:05	10/02/18 12:19	1
m-Xylene & p-Xylene	2.9	U	7.6	2.9	ug/Kg	☼	10/02/18 05:05	10/02/18 12:19	1
o-Xylene	3.7	U	7.6	3.7	ug/Kg	☼	10/02/18 05:05	10/02/18 12:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*69 - 110*	*10/02/18 05:05*	*10/02/18 12:19*	*1*
4-Bromofluorobenzene (Surr)	*84*		*70 - 110*	*10/02/18 05:05*	*10/02/18 12:19*	*1*
Dibromofluoromethane (Surr)	*89*		*74 - 114*	*10/02/18 05:05*	*10/02/18 12:19*	*1*
Toluene-d8 (Surr)	*112*		*83 - 124*	*10/02/18 05:05*	*10/02/18 12:19*	*1*

Client Sample Results

Client: Posillico Dev Company at Harbor Isle LLC
Project/Site: Harbor Isle

TestAmerica Job ID: 180-82446-1

Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: POS-SED-R14-S1 (0-0.5')
Date Collected: 09/27/18 13:35
Date Received: 09/28/18 09:00

Lab Sample ID: 180-82446-3
Matrix: Sediment
Percent Solids: 71.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	3.1	U	7.9	3.1	ug/Kg	☼	10/02/18 05:05	10/02/18 14:25	1
Toluene	2.6	U	7.9	2.6	ug/Kg	☼	10/02/18 05:05	10/02/18 14:25	1
Ethylbenzene	3.4	U	7.9	3.4	ug/Kg	☼	10/02/18 05:05	10/02/18 14:25	1
Xylenes, Total	6.8	U	16	6.8	ug/Kg	☼	10/02/18 05:05	10/02/18 14:25	1
m-Xylene & p-Xylene	2.9	U	7.9	2.9	ug/Kg	☼	10/02/18 05:05	10/02/18 14:25	1
o-Xylene	3.8	U	7.9	3.8	ug/Kg	☼	10/02/18 05:05	10/02/18 14:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*69 - 110*	*10/02/18 05:05*	*10/02/18 14:25*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 110*	*10/02/18 05:05*	*10/02/18 14:25*	*1*
Dibromofluoromethane (Surr)	*103*		*74 - 114*	*10/02/18 05:05*	*10/02/18 14:25*	*1*
Toluene-d8 (Surr)	*105*		*83 - 124*	*10/02/18 05:05*	*10/02/18 14:25*	*1*

Client Sample Results

Client: Posillico Dev Company at Harbor Isle LLC
Project/Site: Harbor Isle

TestAmerica Job ID: 180-82446-1

Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: POS-SED-R14-S2 (5-10')
Date Collected: 09/27/18 13:35
Date Received: 09/28/18 09:00

Lab Sample ID: 180-82446-4
Matrix: Sediment
Percent Solids: 69.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	3.4	U	8.6	3.4	ug/Kg	☼	10/02/18 05:05	10/02/18 13:09	1
Toluene	2.9	U	8.6	2.9	ug/Kg	☼	10/02/18 05:05	10/02/18 13:09	1
Ethylbenzene	3.7	U	8.6	3.7	ug/Kg	☼	10/02/18 05:05	10/02/18 13:09	1
Xylenes, Total	7.4	U	17	7.4	ug/Kg	☼	10/02/18 05:05	10/02/18 13:09	1
m-Xylene & p-Xylene	3.2	U	8.6	3.2	ug/Kg	☼	10/02/18 05:05	10/02/18 13:09	1
o-Xylene	4.2	U	8.6	4.2	ug/Kg	☼	10/02/18 05:05	10/02/18 13:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*69 - 110*	*10/02/18 05:05*	*10/02/18 13:09*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 110*	*10/02/18 05:05*	*10/02/18 13:09*	*1*
Dibromofluoromethane (Surr)	*105*		*74 - 114*	*10/02/18 05:05*	*10/02/18 13:09*	*1*
Toluene-d8 (Surr)	*106*		*83 - 124*	*10/02/18 05:05*	*10/02/18 13:09*	*1*

Client Sample Results

Client: Posillico Dev Company at Harbor Isle LLC
Project/Site: Harbor Isle

TestAmerica Job ID: 180-82446-1

Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: POS-SED-L15-S1 (0-0.5')
Date Collected: 09/27/18 15:20
Date Received: 09/28/18 09:00

Lab Sample ID: 180-82446-5
Matrix: Sediment
Percent Solids: 81.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.8	U	7.0	2.8	ug/Kg	☼	10/02/18 05:05	10/02/18 14:51	1
Toluene	2.4	U	7.0	2.4	ug/Kg	☼	10/02/18 05:05	10/02/18 14:51	1
Ethylbenzene	3.0	U	7.0	3.0	ug/Kg	☼	10/02/18 05:05	10/02/18 14:51	1
Xylenes, Total	6.1	U	14	6.1	ug/Kg	☼	10/02/18 05:05	10/02/18 14:51	1
m-Xylene & p-Xylene	2.6	U	7.0	2.6	ug/Kg	☼	10/02/18 05:05	10/02/18 14:51	1
o-Xylene	3.4	U	7.0	3.4	ug/Kg	☼	10/02/18 05:05	10/02/18 14:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*69 - 110*	*10/02/18 05:05*	*10/02/18 14:51*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 110*	*10/02/18 05:05*	*10/02/18 14:51*	*1*
Dibromofluoromethane (Surr)	*110*		*74 - 114*	*10/02/18 05:05*	*10/02/18 14:51*	*1*
Toluene-d8 (Surr)	*118*		*83 - 124*	*10/02/18 05:05*	*10/02/18 14:51*	*1*

Client Sample Results

Client: Posillico Dev Company at Harbor Isle LLC
Project/Site: Harbor Isle

TestAmerica Job ID: 180-82446-1

Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: POS-SED-L15-S2 (5-10')
Date Collected: 09/27/18 15:30
Date Received: 09/28/18 09:00

Lab Sample ID: 180-82446-6
Matrix: Sediment
Percent Solids: 63.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	4.2	U	11	4.2	ug/Kg	☼	10/02/18 05:05	10/02/18 15:17	1
Toluene	3.6	U	11	3.6	ug/Kg	☼	10/02/18 05:05	10/02/18 15:17	1
Ethylbenzene	4.6	U	11	4.6	ug/Kg	☼	10/02/18 05:05	10/02/18 15:17	1
Xylenes, Total	9.2	U	21	9.2	ug/Kg	☼	10/02/18 05:05	10/02/18 15:17	1
m-Xylene & p-Xylene	4.0	U	11	4.0	ug/Kg	☼	10/02/18 05:05	10/02/18 15:17	1
o-Xylene	5.2	U	11	5.2	ug/Kg	☼	10/02/18 05:05	10/02/18 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*69 - 110*	*10/02/18 05:05*	*10/02/18 15:17*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 110*	*10/02/18 05:05*	*10/02/18 15:17*	*1*
Dibromofluoromethane (Surr)	*113*		*74 - 114*	*10/02/18 05:05*	*10/02/18 15:17*	*1*
Toluene-d8 (Surr)	*121*		*83 - 124*	*10/02/18 05:05*	*10/02/18 15:17*	*1*

Client Sample Results

Client: Posillico Dev Company at Harbor Isle LLC
Project/Site: Harbor Isle

TestAmerica Job ID: 180-82446-1

Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Client Sample ID: TRIP BLANK
Date Collected: 09/27/18 00:00
Date Received: 09/28/18 09:00

Lab Sample ID: 180-82446-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.0	U	5.0	2.0	ug/L			10/01/18 11:25	1
Toluene	1.7	U	5.0	1.7	ug/L			10/01/18 11:25	1
Ethylbenzene	2.2	U	5.0	2.2	ug/L			10/01/18 11:25	1
Xylenes, Total	4.3	U	10	4.3	ug/L			10/01/18 11:25	1
m-Xylene & p-Xylene	1.9	U	5.0	1.9	ug/L			10/01/18 11:25	1
o-Xylene	2.4	U	5.0	2.4	ug/L			10/01/18 11:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*73 - 143*		*10/01/18 11:25*	*1*
4-Bromofluorobenzene (Surr)	*96*		*61 - 123*		*10/01/18 11:25*	*1*
Dibromofluoromethane (Surr)	*94*		*68 - 128*		*10/01/18 11:25*	*1*
Toluene-d8 (Surr)	*96*		*75 - 124*		*10/01/18 11:25*	*1*

Client Sample Results

Client: Posillico Dev Company at Harbor Isle LLC
Project/Site: Harbor Isle

TestAmerica Job ID: 180-82446-1

Method: EPA 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Client Sample ID: POS-SED-S12-S1 (0-0.5')
Date Collected: 09/27/18 10:20
Date Received: 09/28/18 09:00

Lab Sample ID: 180-82446-1
Matrix: Sediment
Percent Solids: 83.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	34		16	4.1	ug/Kg	☼	10/08/18 09:24	10/14/18 00:32	4
Benzo[a]anthracene	37		16	3.0	ug/Kg	☼	10/08/18 09:24	10/14/18 00:32	4
Benzo[b]fluoranthene	54		16	3.9	ug/Kg	☼	10/08/18 09:24	10/14/18 00:32	4
Benzo[k]fluoranthene	26		16	4.8	ug/Kg	☼	10/08/18 09:24	10/14/18 00:32	4
Benzo[g,h,i]perylene	34		16	3.4	ug/Kg	☼	10/08/18 09:24	10/14/18 00:32	4
Benzo[a]pyrene	42		16	3.5	ug/Kg	☼	10/08/18 09:24	10/14/18 00:32	4
Chrysene	63		16	3.1	ug/Kg	☼	10/08/18 09:24	10/14/18 00:32	4
Dibenz(a,h)anthracene	9.0	J	16	3.6	ug/Kg	☼	10/08/18 09:24	10/14/18 00:32	4
Fluoranthene	81		16	4.2	ug/Kg	☼	10/08/18 09:24	10/14/18 00:32	4
Fluorene	6.4	J	16	3.1	ug/Kg	☼	10/08/18 09:24	10/14/18 00:32	4
Indeno[1,2,3-cd]pyrene	26		16	3.2	ug/Kg	☼	10/08/18 09:24	10/14/18 00:32	4
Phenanthrene	36		16	4.3	ug/Kg	☼	10/08/18 09:24	10/14/18 00:32	4
Pyrene	89		16	3.8	ug/Kg	☼	10/08/18 09:24	10/14/18 00:32	4
Acenaphthene	11	J	16	4.6	ug/Kg	☼	10/08/18 09:24	10/14/18 00:32	4
Acenaphthylene	8.1	J	16	3.5	ug/Kg	☼	10/08/18 09:24	10/14/18 00:32	4
Naphthalene	29		16	3.1	ug/Kg	☼	10/08/18 09:24	10/14/18 00:32	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*102*		*39 - 105*	*10/08/18 09:24*	*10/14/18 00:32*	*4*
2-Fluorobiphenyl	*99*		*39 - 105*	*10/08/18 09:24*	*10/14/18 00:32*	*4*
Terphenyl-d14 (Surr)	*87*		*28 - 148*	*10/08/18 09:24*	*10/14/18 00:32*	*4*

Client Sample Results

Client: Posillico Dev Company at Harbor Isle LLC
Project/Site: Harbor Isle

TestAmerica Job ID: 180-82446-1

Method: EPA 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Client Sample ID: POS-SED-S12-S2 (5-10')
Date Collected: 09/27/18 10:45
Date Received: 09/28/18 09:00

Lab Sample ID: 180-82446-2
Matrix: Sediment
Percent Solids: 77.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	97		22	5.6	ug/Kg	☼	10/08/18 09:24	10/14/18 00:59	5
Benzo[a]anthracene	130		22	4.1	ug/Kg	☼	10/08/18 09:24	10/14/18 00:59	5
Benzo[b]fluoranthene	150		22	5.3	ug/Kg	☼	10/08/18 09:24	10/14/18 00:59	5
Benzo[k]fluoranthene	50		22	6.5	ug/Kg	☼	10/08/18 09:24	10/14/18 00:59	5
Benzo[g,h,i]perylene	75		22	4.7	ug/Kg	☼	10/08/18 09:24	10/14/18 00:59	5
Benzo[a]pyrene	110		22	4.7	ug/Kg	☼	10/08/18 09:24	10/14/18 00:59	5
Chrysene	210		22	4.2	ug/Kg	☼	10/08/18 09:24	10/14/18 00:59	5
Dibenz(a,h)anthracene	18	J	22	4.8	ug/Kg	☼	10/08/18 09:24	10/14/18 00:59	5
Fluoranthene	290		22	5.7	ug/Kg	☼	10/08/18 09:24	10/14/18 00:59	5
Fluorene	26		22	4.2	ug/Kg	☼	10/08/18 09:24	10/14/18 00:59	5
Indeno[1,2,3-cd]pyrene	72		22	4.4	ug/Kg	☼	10/08/18 09:24	10/14/18 00:59	5
Phenanthrene	310		22	5.8	ug/Kg	☼	10/08/18 09:24	10/14/18 00:59	5
Pyrene	240		22	5.1	ug/Kg	☼	10/08/18 09:24	10/14/18 00:59	5
Acenaphthene	31		22	6.2	ug/Kg	☼	10/08/18 09:24	10/14/18 00:59	5
Acenaphthylene	15	J	22	4.7	ug/Kg	☼	10/08/18 09:24	10/14/18 00:59	5
Naphthalene	28		22	4.2	ug/Kg	☼	10/08/18 09:24	10/14/18 00:59	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*97*		*39 - 105*	*10/08/18 09:24*	*10/14/18 00:59*	*5*
2-Fluorobiphenyl	*101*		*39 - 105*	*10/08/18 09:24*	*10/14/18 00:59*	*5*
Terphenyl-d14 (Surr)	*90*		*28 - 148*	*10/08/18 09:24*	*10/14/18 00:59*	*5*

Client Sample Results

Client: Posillico Dev Company at Harbor Isle LLC
Project/Site: Harbor Isle

TestAmerica Job ID: 180-82446-1

Method: EPA 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Client Sample ID: POS-SED-R14-S1 (0-0.5')
Date Collected: 09/27/18 13:35
Date Received: 09/28/18 09:00

Lab Sample ID: 180-82446-3
Matrix: Sediment
Percent Solids: 71.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	29	J	47	12	ug/Kg	☼	10/08/18 09:24	10/14/18 20:42	10
Benzo[a]anthracene	86		47	8.8	ug/Kg	☼	10/08/18 09:24	10/14/18 20:42	10
Benzo[b]fluoranthene	120		47	11	ug/Kg	☼	10/08/18 09:24	10/14/18 20:42	10
Benzo[k]fluoranthene	48		47	14	ug/Kg	☼	10/08/18 09:24	10/14/18 20:42	10
Benzo[g,h,i]perylene	80		47	10	ug/Kg	☼	10/08/18 09:24	10/14/18 20:42	10
Benzo[a]pyrene	95		47	10	ug/Kg	☼	10/08/18 09:24	10/14/18 20:42	10
Chrysene	93		47	9.1	ug/Kg	☼	10/08/18 09:24	10/14/18 20:42	10
Dibenz(a,h)anthracene	12	J	47	10	ug/Kg	☼	10/08/18 09:24	10/14/18 20:42	10
Fluoranthene	160		47	12	ug/Kg	☼	10/08/18 09:24	10/14/18 20:42	10
Fluorene	10	J	47	9.1	ug/Kg	☼	10/08/18 09:24	10/14/18 20:42	10
Indeno[1,2,3-cd]pyrene	59		47	9.4	ug/Kg	☼	10/08/18 09:24	10/14/18 20:42	10
Phenanthrene	70		47	12	ug/Kg	☼	10/08/18 09:24	10/14/18 20:42	10
Pyrene	210		47	11	ug/Kg	☼	10/08/18 09:24	10/14/18 20:42	10
Acenaphthene	13	U	47	13	ug/Kg	☼	10/08/18 09:24	10/14/18 20:42	10
Acenaphthylene	19	J	47	10	ug/Kg	☼	10/08/18 09:24	10/14/18 20:42	10
Naphthalene	13	J	47	9.1	ug/Kg	☼	10/08/18 09:24	10/14/18 20:42	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*54*		*39 - 105*	*10/08/18 09:24*	*10/14/18 20:42*	*10*
2-Fluorobiphenyl	*55*		*39 - 105*	*10/08/18 09:24*	*10/14/18 20:42*	*10*
Terphenyl-d14 (Surr)	*48*		*28 - 148*	*10/08/18 09:24*	*10/14/18 20:42*	*10*

Client Sample Results

Client: Posillico Dev Company at Harbor Isle LLC
Project/Site: Harbor Isle

TestAmerica Job ID: 180-82446-1

Method: EPA 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Client Sample ID: POS-SED-R14-S2 (5-10')
Date Collected: 09/27/18 13:35
Date Received: 09/28/18 09:00

Lab Sample ID: 180-82446-4
Matrix: Sediment
Percent Solids: 69.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	**5.2**	**J**	19	4.9	ug/Kg	☼	10/08/18 09:24	10/14/18 21:10	4
Benzo[a]anthracene	**15**	**J**	19	3.6	ug/Kg	☼	10/08/18 09:24	10/14/18 21:10	4
Benzo[b]fluoranthene	**22**		19	4.7	ug/Kg	☼	10/08/18 09:24	10/14/18 21:10	4
Benzo[k]fluoranthene	**10**	**J**	19	5.7	ug/Kg	☼	10/08/18 09:24	10/14/18 21:10	4
Benzo[g,h,i]perylene	**12**	**J**	19	4.1	ug/Kg	☼	10/08/18 09:24	10/14/18 21:10	4
Benzo[a]pyrene	**15**	**J**	19	4.1	ug/Kg	☼	10/08/18 09:24	10/14/18 21:10	4
Chrysene	**17**	**J**	19	3.7	ug/Kg	☼	10/08/18 09:24	10/14/18 21:10	4
Dibenz(a,h)anthracene	4.2	U	19	4.2	ug/Kg	☼	10/08/18 09:24	10/14/18 21:10	4
Fluoranthene	**35**		19	5.0	ug/Kg	☼	10/08/18 09:24	10/14/18 21:10	4
Fluorene	3.7	U	19	3.7	ug/Kg	☼	10/08/18 09:24	10/14/18 21:10	4
Indeno[1,2,3-cd]pyrene	**12**	**J**	19	3.8	ug/Kg	☼	10/08/18 09:24	10/14/18 21:10	4
Phenanthrene	**16**	**J**	19	5.1	ug/Kg	☼	10/08/18 09:24	10/14/18 21:10	4
Pyrene	**36**		19	4.5	ug/Kg	☼	10/08/18 09:24	10/14/18 21:10	4
Acenaphthene	5.5	U	19	5.5	ug/Kg	☼	10/08/18 09:24	10/14/18 21:10	4
Acenaphthylene	4.2	U	19	4.2	ug/Kg	☼	10/08/18 09:24	10/14/18 21:10	4
Naphthalene	3.7	U	19	3.7	ug/Kg	☼	10/08/18 09:24	10/14/18 21:10	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*70*		*39 - 105*	*10/08/18 09:24*	*10/14/18 21:10*	*4*
2-Fluorobiphenyl	*70*		*39 - 105*	*10/08/18 09:24*	*10/14/18 21:10*	*4*
Terphenyl-d14 (Surr)	*55*		*28 - 148*	*10/08/18 09:24*	*10/14/18 21:10*	*4*

Client Sample Results

Client: Posillico Dev Company at Harbor Isle LLC
Project/Site: Harbor Isle

TestAmerica Job ID: 180-82446-1

Method: EPA 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Client Sample ID: POS-SED-L15-S1 (0-0.5')
Date Collected: 09/27/18 15:20
Date Received: 09/28/18 09:00

Lab Sample ID: 180-82446-5
Matrix: Sediment
Percent Solids: 81.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	69		41	11	ug/Kg	☼	10/08/18 09:24	10/14/18 21:38	10
Benzo[a]anthracene	240		41	7.7	ug/Kg	☼	10/08/18 09:24	10/14/18 21:38	10
Benzo[b]fluoranthene	360		41	10	ug/Kg	☼	10/08/18 09:24	10/14/18 21:38	10
Benzo[k]fluoranthene	140		41	12	ug/Kg	☼	10/08/18 09:24	10/14/18 21:38	10
Benzo[g,h,i]perylene	230		41	8.8	ug/Kg	☼	10/08/18 09:24	10/14/18 21:38	10
Benzo[a]pyrene	280		41	8.9	ug/Kg	☼	10/08/18 09:24	10/14/18 21:38	10
Chrysene	300		41	8.0	ug/Kg	☼	10/08/18 09:24	10/14/18 21:38	10
Dibenz(a,h)anthracene	65		41	9.1	ug/Kg	☼	10/08/18 09:24	10/14/18 21:38	10
Fluoranthene	570		41	11	ug/Kg	☼	10/08/18 09:24	10/14/18 21:38	10
Fluorene	16	J	41	8.0	ug/Kg	☼	10/08/18 09:24	10/14/18 21:38	10
Indeno[1,2,3-cd]pyrene	190		41	8.3	ug/Kg	☼	10/08/18 09:24	10/14/18 21:38	10
Phenanthrene	200		41	11	ug/Kg	☼	10/08/18 09:24	10/14/18 21:38	10
Pyrene	440		41	9.7	ug/Kg	☼	10/08/18 09:24	10/14/18 21:38	10
Acenaphthene	21	J	41	12	ug/Kg	☼	10/08/18 09:24	10/14/18 21:38	10
Acenaphthylene	35	J	41	8.9	ug/Kg	☼	10/08/18 09:24	10/14/18 21:38	10
Naphthalene	7.9	U	41	7.9	ug/Kg	☼	10/08/18 09:24	10/14/18 21:38	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*71*		*39 - 105*	*10/08/18 09:24*	*10/14/18 21:38*	*10*
2-Fluorobiphenyl	*71*		*39 - 105*	*10/08/18 09:24*	*10/14/18 21:38*	*10*
Terphenyl-d14 (Surr)	*62*		*28 - 148*	*10/08/18 09:24*	*10/14/18 21:38*	*10*

Client Sample Results

Client: Posillico Dev Company at Harbor Isle LLC
Project/Site: Harbor Isle

TestAmerica Job ID: 180-82446-1

Method: EPA 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Client Sample ID: POS-SED-L15-S2 (5-10')
Date Collected: 09/27/18 15:30
Date Received: 09/28/18 09:00

Lab Sample ID: 180-82446-6
Matrix: Sediment
Percent Solids: 63.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	24	J	26	6.8	ug/Kg	☼	10/08/18 09:24	10/14/18 22:06	5
Benzo[a]anthracene	68		26	5.0	ug/Kg	☼	10/08/18 09:24	10/14/18 22:06	5
Benzo[b]fluoranthene	100		26	6.5	ug/Kg	☼	10/08/18 09:24	10/14/18 22:06	5
Benzo[k]fluoranthene	49		26	7.9	ug/Kg	☼	10/08/18 09:24	10/14/18 22:06	5
Benzo[g,h,i]perylene	56		26	5.7	ug/Kg	☼	10/08/18 09:24	10/14/18 22:06	5
Benzo[a]pyrene	75		26	5.7	ug/Kg	☼	10/08/18 09:24	10/14/18 22:06	5
Chrysene	88		26	5.2	ug/Kg	☼	10/08/18 09:24	10/14/18 22:06	5
Dibenz(a,h)anthracene	17	J	26	5.9	ug/Kg	☼	10/08/18 09:24	10/14/18 22:06	5
Fluoranthene	160		26	6.9	ug/Kg	☼	10/08/18 09:24	10/14/18 22:06	5
Fluorene	8.7	J	26	5.2	ug/Kg	☼	10/08/18 09:24	10/14/18 22:06	5
Indeno[1,2,3-cd]pyrene	49		26	5.3	ug/Kg	☼	10/08/18 09:24	10/14/18 22:06	5
Phenanthrene	110		26	7.1	ug/Kg	☼	10/08/18 09:24	10/14/18 22:06	5
Pyrene	190		26	6.2	ug/Kg	☼	10/08/18 09:24	10/14/18 22:06	5
Acenaphthene	8.8	J	26	7.6	ug/Kg	☼	10/08/18 09:24	10/14/18 22:06	5
Acenaphthylene	12	J	26	5.8	ug/Kg	☼	10/08/18 09:24	10/14/18 22:06	5
Naphthalene	5.5	J	26	5.1	ug/Kg	☼	10/08/18 09:24	10/14/18 22:06	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*61*		*39 - 105*	*10/08/18 09:24*	*10/14/18 22:06*	*5*
2-Fluorobiphenyl	*62*		*39 - 105*	*10/08/18 09:24*	*10/14/18 22:06*	*5*
Terphenyl-d14 (Surr)	*69*		*28 - 148*	*10/08/18 09:24*	*10/14/18 22:06*	*5*

Client Sample Results

Client: Posillico Dev Company at Harbor Isle LLC
Project/Site: Harbor Isle

TestAmerica Job ID: 180-82446-1

Method: EPA 6020A - Metals (ICP/MS)

Client Sample ID: POS-SED-S12-S1 (0-0.5')
Date Collected: 09/27/18 10:20
Date Received: 09/28/18 09:00

Lab Sample ID: 180-82446-1
Matrix: Sediment
Percent Solids: 83.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.5		0.060	0.016	mg/Kg	☼	10/02/18 17:31	10/09/18 22:26	1
Cadmium	0.074		0.060	0.010	mg/Kg	☼	10/02/18 17:31	10/09/18 22:26	1
Chromium	6.5		0.12	0.040	mg/Kg	☼	10/02/18 17:31	10/09/18 22:26	1
Copper	6.8		0.12	0.068	mg/Kg	☼	10/02/18 17:31	10/09/18 22:26	1
Lead	13.3		0.060	0.022	mg/Kg	☼	10/02/18 17:31	10/09/18 22:26	1
Nickel	3.3		0.060	0.037	mg/Kg	☼	10/02/18 17:31	10/09/18 22:26	1
Silver	0.047	J	0.060	0.0084	mg/Kg	☼	10/02/18 17:31	10/09/18 22:26	1
Zinc	89.5		0.30	0.20	mg/Kg	☼	10/02/18 17:31	10/09/18 22:26	1

Client Sample Results

Client: Posillico Dev Company at Harbor Isle LLC
Project/Site: Harbor Isle

TestAmerica Job ID: 180-82446-1

Method: EPA 6020A - Metals (ICP/MS)

Client Sample ID: POS-SED-S12-S2 (5-10')
Date Collected: 09/27/18 10:45
Date Received: 09/28/18 09:00

Lab Sample ID: 180-82446-2
Matrix: Sediment
Percent Solids: 77.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.7		0.064	0.017	mg/Kg	☼	10/02/18 17:31	10/09/18 22:43	1
Cadmium	0.12		0.064	0.011	mg/Kg	☼	10/02/18 17:31	10/09/18 22:43	1
Chromium	12.6		0.13	0.042	mg/Kg	☼	10/02/18 17:31	10/09/18 22:43	1
Copper	7.1		0.13	0.073	mg/Kg	☼	10/02/18 17:31	10/09/18 22:43	1
Lead	8.1		0.064	0.023	mg/Kg	☼	10/02/18 17:31	10/09/18 22:43	1
Nickel	5.4		0.064	0.040	mg/Kg	☼	10/02/18 17:31	10/09/18 22:43	1
Silver	0.074		0.064	0.0090	mg/Kg	☼	10/02/18 17:31	10/09/18 22:43	1
Zinc	16.5		0.32	0.21	mg/Kg	☼	10/02/18 17:31	10/09/18 22:43	1

Client Sample Results

Client: Posillico Dev Company at Harbor Isle LLC
Project/Site: Harbor Isle

TestAmerica Job ID: 180-82446-1

Method: EPA 6020A - Metals (ICP/MS)

Client Sample ID: POS-SED-R14-S1 (0-0.5')
Date Collected: 09/27/18 13:35
Date Received: 09/28/18 09:00

Lab Sample ID: 180-82446-3
Matrix: Sediment
Percent Solids: 71.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.9		0.070	0.018	mg/Kg	☼	10/02/18 17:31	10/09/18 22:48	1
Cadmium	0.10		0.070	0.012	mg/Kg	☼	10/02/18 17:31	10/09/18 22:48	1
Chromium	7.6		0.14	0.046	mg/Kg	☼	10/02/18 17:31	10/09/18 22:48	1
Copper	7.1		0.14	0.080	mg/Kg	☼	10/02/18 17:31	10/09/18 22:48	1
Lead	20.7		0.070	0.025	mg/Kg	☼	10/02/18 17:31	10/09/18 22:48	1
Nickel	3.6		0.070	0.044	mg/Kg	☼	10/02/18 17:31	10/09/18 22:48	1
Silver	0.093		0.070	0.0099	mg/Kg	☼	10/02/18 17:31	10/09/18 22:48	1
Zinc	21.3		0.35	0.24	mg/Kg	☼	10/02/18 17:31	10/09/18 22:48	1

Client Sample Results

Client: Posillico Dev Company at Harbor Isle LLC
Project/Site: Harbor Isle

TestAmerica Job ID: 180-82446-1

Method: EPA 6020A - Metals (ICP/MS)

Client Sample ID: POS-SED-R14-S2 (5-10')
Date Collected: 09/27/18 13:35
Date Received: 09/28/18 09:00

Lab Sample ID: 180-82446-4
Matrix: Sediment
Percent Solids: 69.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.3		0.072	0.019	mg/Kg	☼	10/02/18 17:31	10/09/18 22:53	1
Cadmium	0.29		0.072	0.012	mg/Kg	☼	10/02/18 17:31	10/09/18 22:53	1
Chromium	17.7		0.14	0.048	mg/Kg	☼	10/02/18 17:31	10/09/18 22:53	1
Copper	7.3		0.14	0.082	mg/Kg	☼	10/02/18 17:31	10/09/18 22:53	1
Lead	7.3		0.072	0.026	mg/Kg	☼	10/02/18 17:31	10/09/18 22:53	1
Nickel	9.2		0.072	0.045	mg/Kg	☼	10/02/18 17:31	10/09/18 22:53	1
Silver	0.040	J	0.072	0.010	mg/Kg	☼	10/02/18 17:31	10/09/18 22:53	1
Zinc	25.6		0.36	0.24	mg/Kg	☼	10/02/18 17:31	10/09/18 22:53	1

Client Sample Results

Client: Posillico Dev Company at Harbor Isle LLC
Project/Site: Harbor Isle

TestAmerica Job ID: 180-82446-1

Method: EPA 6020A - Metals (ICP/MS)

Client Sample ID: POS-SED-L15-S1 (0-0.5')
Date Collected: 09/27/18 15:20
Date Received: 09/28/18 09:00

Lab Sample ID: 180-82446-5
Matrix: Sediment
Percent Solids: 81.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.6		0.061	0.016	mg/Kg	☼	10/02/18 17:31	10/09/18 22:57	1
Cadmium	0.17		0.061	0.010	mg/Kg	☼	10/02/18 17:31	10/09/18 22:57	1
Chromium	7.4		0.12	0.041	mg/Kg	☼	10/02/18 17:31	10/09/18 22:57	1
Copper	15.5		0.12	0.070	mg/Kg	☼	10/02/18 17:31	10/09/18 22:57	1
Lead	46.2		0.061	0.022	mg/Kg	☼	10/02/18 17:31	10/09/18 22:57	1
Nickel	4.9		0.061	0.038	mg/Kg	☼	10/02/18 17:31	10/09/18 22:57	1
Silver	0.14		0.061	0.0086	mg/Kg	☼	10/02/18 17:31	10/09/18 22:57	1
Zinc	41.1		0.31	0.21	mg/Kg	☼	10/02/18 17:31	10/09/18 22:57	1

Client Sample Results

Client: Posillico Dev Company at Harbor Isle LLC
Project/Site: Harbor Isle

TestAmerica Job ID: 180-82446-1

Method: EPA 6020A - Metals (ICP/MS)

Client Sample ID: POS-SED-L15-S2 (5-10')
Date Collected: 09/27/18 15:30
Date Received: 09/28/18 09:00

Lab Sample ID: 180-82446-6
Matrix: Sediment
Percent Solids: 63.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.1		0.080	0.021	mg/Kg	☼	10/02/18 17:31	10/09/18 23:02	1
Cadmium	0.49		0.080	0.014	mg/Kg	☼	10/02/18 17:31	10/09/18 23:02	1
Chromium	31.0		0.16	0.053	mg/Kg	☼	10/02/18 17:31	10/09/18 23:02	1
Copper	20.0		0.16	0.091	mg/Kg	☼	10/02/18 17:31	10/09/18 23:02	1
Lead	22.1		0.080	0.029	mg/Kg	☼	10/02/18 17:31	10/09/18 23:02	1
Nickel	15.0		0.080	0.049	mg/Kg	☼	10/02/18 17:31	10/09/18 23:02	1
Silver	0.22		0.080	0.011	mg/Kg	☼	10/02/18 17:31	10/09/18 23:02	1
Zinc	56.9		0.40	0.27	mg/Kg	☼	10/02/18 17:31	10/09/18 23:02	1

Client Sample Results

Client: Posillico Dev Company at Harbor Isle LLC
Project/Site: Harbor Isle

TestAmerica Job ID: 180-82446-1

Method: EPA 7471B - Mercury (CVAA)

Client Sample ID: POS-SED-S12-S1 (0-0.5')
Date Collected: 09/27/18 10:20
Date Received: 09/28/18 09:00

Lab Sample ID: 180-82446-1
Matrix: Sediment
Percent Solids: 83.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.020	0.0044	mg/Kg	☼	10/01/18 17:56	10/02/18 16:37	1

Client Sample Results

Client: Posillico Dev Company at Harbor Isle LLC
Project/Site: Harbor Isle

TestAmerica Job ID: 180-82446-1

Method: EPA 7471B - Mercury (CVAA)

Client Sample ID: POS-SED-S12-S2 (5-10')
Date Collected: 09/27/18 10:45
Date Received: 09/28/18 09:00

Lab Sample ID: 180-82446-2
Matrix: Sediment
Percent Solids: 77.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0048	U	0.021	0.0048	mg/Kg	☼	10/01/18 17:56	10/02/18 16:38	1

Client Sample Results

Client: Posillico Dev Company at Harbor Isle LLC
Project/Site: Harbor Isle

TestAmerica Job ID: 180-82446-1

Method: EPA 7471B - Mercury (CVAA)

Client Sample ID: POS-SED-R14-S1 (0-0.5')
Date Collected: 09/27/18 13:35
Date Received: 09/28/18 09:00

Lab Sample ID: 180-82446-3
Matrix: Sediment
Percent Solids: 71.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.022	0.0049	mg/Kg	☼	10/01/18 17:56	10/02/18 16:39	1

Client Sample Results

Client: Posillico Dev Company at Harbor Isle LLC
Project/Site: Harbor Isle

TestAmerica Job ID: 180-82446-1

Method: EPA 7471B - Mercury (CVAA)

Client Sample ID: POS-SED-R14-S2 (5-10')
Date Collected: 09/27/18 13:35
Date Received: 09/28/18 09:00

Lab Sample ID: 180-82446-4
Matrix: Sediment
Percent Solids: 69.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0084	J	0.024	0.0054	mg/Kg	☼	10/01/18 17:56	10/02/18 16:41	1

Client Sample Results

Client: Posillico Dev Company at Harbor Isle LLC
Project/Site: Harbor Isle

TestAmerica Job ID: 180-82446-1

Method: EPA 7471B - Mercury (CVAA)

Client Sample ID: POS-SED-L15-S1 (0-0.5')
Date Collected: 09/27/18 15:20
Date Received: 09/28/18 09:00

Lab Sample ID: 180-82446-5
Matrix: Sediment
Percent Solids: 81.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.021	0.0046	mg/Kg	☼	10/01/18 17:56	10/02/18 16:42	1

Client Sample Results

Client: Posillico Dev Company at Harbor Isle LLC
Project/Site: Harbor Isle

TestAmerica Job ID: 180-82446-1

Method: EPA 7471B - Mercury (CVAA)

Client Sample ID: POS-SED-L15-S2 (5-10')
Date Collected: 09/27/18 15:30
Date Received: 09/28/18 09:00

Lab Sample ID: 180-82446-6
Matrix: Sediment
Percent Solids: 63.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.15		0.026	0.0058	mg/Kg	☼	10/01/18 17:56	10/02/18 16:43	1

General Chemistry

Client Sample ID: POS-SED-S12-S1 (0-0.5')
Date Collected: 09/27/18 10:20
Date Received: 09/28/18 09:00

Lab Sample ID: 180-82446-1
Matrix: Sediment
Percent Solids: 83.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	2180		1200	898	mg/Kg	☼		10/04/18 16:36	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	17.0		0.1	0.1	%			10/10/18 10:28	1
Percent Solids	83.0		0.1	0.1	%			10/10/18 10:28	1

General Chemistry

Client Sample ID: POS-SED-S12-S2 (5-10')
Date Collected: 09/27/18 10:45
Date Received: 09/28/18 09:00

Lab Sample ID: 180-82446-2
Matrix: Sediment
Percent Solids: 77.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	3050		1290	964	mg/Kg	☼		10/03/18 16:02	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	22.6		0.1	0.1	%			10/10/18 10:28	1
Percent Solids	77.4		0.1	0.1	%			10/10/18 10:28	1

General Chemistry

Client Sample ID: POS-SED-R14-S1 (0-0.5')
Date Collected: 09/27/18 13:35
Date Received: 09/28/18 09:00

Lab Sample ID: 180-82446-3
Matrix: Sediment
Percent Solids: 71.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	5060		1390	1040	mg/Kg	☼		10/04/18 16:26	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	28.3		0.1	0.1	%			10/10/18 10:28	1
Percent Solids	71.7		0.1	0.1	%			10/10/18 10:28	1

General Chemistry

Client Sample ID: POS-SED-R14-S2 (5-10')
Date Collected: 09/27/18 13:35
Date Received: 09/28/18 09:00

Lab Sample ID: 180-82446-4
Matrix: Sediment
Percent Solids: 69.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	9530		1430	1070	mg/Kg	☼		10/03/18 16:23	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	30.2		0.1	0.1	%			10/10/18 10:28	1
Percent Solids	69.8		0.1	0.1	%			10/10/18 10:28	1

General Chemistry

Client Sample ID: POS-SED-L15-S1 (0-0.5')
Date Collected: 09/27/18 15:20
Date Received: 09/28/18 09:00

Lab Sample ID: 180-82446-5
Matrix: Sediment
Percent Solids: 81.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	2640		1220	912	mg/Kg	☼		10/03/18 16:33	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18.2		0.1	0.1	%			10/10/18 11:06	1
Percent Solids	81.8		0.1	0.1	%			10/10/18 11:06	1

General Chemistry

Client Sample ID: POS-SED-L15-S2 (5-10')
Date Collected: 09/27/18 15:30
Date Received: 09/28/18 09:00

Lab Sample ID: 180-82446-6
Matrix: Sediment
Percent Solids: 63.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	12300		1580	1180	mg/Kg	☼		10/03/18 16:43	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	36.6		0.1	0.1	%			10/10/18 11:06	1
Percent Solids	63.4		0.1	0.1	%			10/10/18 11:06	1

Surrogate Summary

Client: Posillico Dev Company at Harbor Isle LLC
Project/Site: Harbor Isle

TestAmerica Job ID: 180-82446-1

Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Matrix: Sediment **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(69-110)	(70-110)	(74-114)	(83-124)
180-82446-1	POS-SED-S12-S1 (0-0.5')	95	96	103	111
180-82446-2	POS-SED-S12-S2 (5-10')	86	84	89	112
180-82446-3	POS-SED-R14-S1 (0-0.5')	101	100	103	105
180-82446-4	POS-SED-R14-S2 (5-10')	101	96	105	106
180-82446-5	POS-SED-L15-S1 (0-0.5')	105	100	110	118
180-82446-6	POS-SED-L15-S2 (5-10')	108	93	113	121
LCS 180-258478/5	Lab Control Sample	100	100	101	104
LCSD 180-258478/6	Lab Control Sample Dup	100	102	99	109
MB 180-258478/7	Method Blank	99	99	99	103

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(73-143)	(61-123)	(68-128)	(75-124)
180-82446-7	TRIP BLANK	112	96	94	96
LCS 180-258369/3	Lab Control Sample	101	99	96	100
MB 180-258369/5	Method Blank	100	95	90	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: EPA 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Matrix: Sediment **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		NBZ	FBP	TPHL
Lab Sample ID	Client Sample ID	(39-105)	(39-105)	(28-148)
180-82446-1	POS-SED-S12-S1 (0-0.5')	102	99	87
180-82446-2	POS-SED-S12-S2 (5-10')	97	101	90
180-82446-3	POS-SED-R14-S1 (0-0.5')	54	55	48
180-82446-4	POS-SED-R14-S2 (5-10')	70	70	55
180-82446-5	POS-SED-L15-S1 (0-0.5')	71	71	62
180-82446-6	POS-SED-L15-S2 (5-10')	61	62	69
180-82503-A-2-A MS	Matrix Spike	64	64	56
180-82503-A-2-B MSD	Matrix Spike Duplicate	87	81	79
LCS 180-259105/2-A	Lab Control Sample	79	82	80
MB 180-259105/1-A	Method Blank	81	84	129

Surrogate Legend

Surrogate Summary

Client: Posillico Dev Company at Harbor Isle LLC
Project/Site: Harbor Isle

TestAmerica Job ID: 180-82446-1

NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl
TPHL = Terphenyl-d14 (Surr)

Method: EPA 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 180-258369/5
Matrix: Water
Analysis Batch: 258369

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.0	U	5.0	2.0	ug/L			10/01/18 08:08	1
Toluene	1.7	U	5.0	1.7	ug/L			10/01/18 08:08	1
Ethylbenzene	2.2	U	5.0	2.2	ug/L			10/01/18 08:08	1
Xylenes, Total	4.3	U	10	4.3	ug/L			10/01/18 08:08	1
m-Xylene & p-Xylene	1.9	U	5.0	1.9	ug/L			10/01/18 08:08	1
o-Xylene	2.4	U	5.0	2.4	ug/L			10/01/18 08:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*73 - 143*		*10/01/18 08:08*	*1*
4-Bromofluorobenzene (Surr)	*95*		*61 - 123*		*10/01/18 08:08*	*1*
Dibromofluoromethane (Surr)	*90*		*68 - 128*		*10/01/18 08:08*	*1*
Toluene-d8 (Surr)	*98*		*75 - 124*		*10/01/18 08:08*	*1*

Lab Sample ID: LCS 180-258369/3
Matrix: Water
Analysis Batch: 258369

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	10.0	10.2		ug/L		102	66 - 124
Toluene	10.0	10.4		ug/L		104	68 - 127
Ethylbenzene	10.0	10.3		ug/L		103	73 - 120
Xylenes, Total	20.0	20.3		ug/L		101	74 - 120
m-Xylene & p-Xylene	10.0	10.2		ug/L		102	74 - 120
o-Xylene	10.0	10.1		ug/L		101	72 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*73 - 143*
4-Bromofluorobenzene (Surr)	*99*		*61 - 123*
Dibromofluoromethane (Surr)	*96*		*68 - 128*
Toluene-d8 (Surr)	*100*		*75 - 124*

Lab Sample ID: MB 180-258478/7
Matrix: Sediment
Analysis Batch: 258478

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.0	U	5.0	2.0	ug/Kg			10/02/18 10:36	1
Toluene	1.7	U	5.0	1.7	ug/Kg			10/02/18 10:36	1
Ethylbenzene	2.2	U	5.0	2.2	ug/Kg			10/02/18 10:36	1
Xylenes, Total	4.3	U	10	4.3	ug/Kg			10/02/18 10:36	1
m-Xylene & p-Xylene	1.9	U	5.0	1.9	ug/Kg			10/02/18 10:36	1
o-Xylene	2.4	U	5.0	2.4	ug/Kg			10/02/18 10:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*69 - 110*		*10/02/18 10:36*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 110*		*10/02/18 10:36*	*1*
Dibromofluoromethane (Surr)	*99*		*74 - 114*		*10/02/18 10:36*	*1*

Method: EPA 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 180-258478/7
Matrix: Sediment
Analysis Batch: 258478

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		83 - 124		10/02/18 10:36	1

Lab Sample ID: LCS 180-258478/5
Matrix: Sediment
Analysis Batch: 258478

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	40.0	40.4		ug/Kg		101	75 - 121
Toluene	40.0	40.2		ug/Kg		101	79 - 123
Ethylbenzene	40.0	37.5		ug/Kg		94	79 - 120
Xylenes, Total	80.0	76.2		ug/Kg		95	79 - 119
m-Xylene & p-Xylene	40.0	39.4		ug/Kg		99	79 - 119
o-Xylene	40.0	36.7		ug/Kg		92	79 - 119

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		69 - 110
4-Bromofluorobenzene (Surr)	100		70 - 110
Dibromofluoromethane (Surr)	101		74 - 114
Toluene-d8 (Surr)	104		83 - 124

Lab Sample ID: LCSD 180-258478/6
Matrix: Sediment
Analysis Batch: 258478

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	40.0	39.5		ug/Kg		99	75 - 121	2	20
Toluene	40.0	40.2		ug/Kg		100	79 - 123	0	20
Ethylbenzene	40.0	37.1		ug/Kg		93	79 - 120	1	20
Xylenes, Total	80.0	75.8		ug/Kg		95	79 - 119	0	20
m-Xylene & p-Xylene	40.0	38.4		ug/Kg		96	79 - 119	3	20
o-Xylene	40.0	37.4		ug/Kg		93	79 - 119	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		69 - 110
4-Bromofluorobenzene (Surr)	102		70 - 110
Dibromofluoromethane (Surr)	99		74 - 114
Toluene-d8 (Surr)	109		83 - 124

Method: EPA 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 180-259105/1-A
Matrix: Sediment
Analysis Batch: 259743

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259105

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	0.87	U	3.4	0.87	ug/Kg		10/08/18 09:24	10/13/18 13:56	1
Benzo[a]anthracene	0.63	U	3.4	0.63	ug/Kg		10/08/18 09:24	10/13/18 13:56	1

Method: EPA 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 180-259105/1-A
Matrix: Sediment
Analysis Batch: 259743

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259105

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	0.82	U	3.4	0.82	ug/Kg		10/08/18 09:24	10/13/18 13:56	1
Benzo[k]fluoranthene	1.0	U	3.4	1.0	ug/Kg		10/08/18 09:24	10/13/18 13:56	1
Benzo[g,h,i]perylene	0.72	U	3.4	0.72	ug/Kg		10/08/18 09:24	10/13/18 13:56	1
Benzo[a]pyrene	0.73	U	3.4	0.73	ug/Kg		10/08/18 09:24	10/13/18 13:56	1
Chrysene	0.66	U	3.4	0.66	ug/Kg		10/08/18 09:24	10/13/18 13:56	1
Dibenz(a,h)anthracene	0.75	U	3.4	0.75	ug/Kg		10/08/18 09:24	10/13/18 13:56	1
Fluoranthene	0.88	U	3.4	0.88	ug/Kg		10/08/18 09:24	10/13/18 13:56	1
Fluorene	0.66	U	3.4	0.66	ug/Kg		10/08/18 09:24	10/13/18 13:56	1
Indeno[1,2,3-cd]pyrene	0.68	U	3.4	0.68	ug/Kg		10/08/18 09:24	10/13/18 13:56	1
Phenanthrene	0.90	U	3.4	0.90	ug/Kg		10/08/18 09:24	10/13/18 13:56	1
Pyrene	0.79	U	3.4	0.79	ug/Kg		10/08/18 09:24	10/13/18 13:56	1
Acenaphthene	0.96	U	3.4	0.96	ug/Kg		10/08/18 09:24	10/13/18 13:56	1
Acenaphthylene	0.73	U	3.4	0.73	ug/Kg		10/08/18 09:24	10/13/18 13:56	1
Naphthalene	0.65	U	3.4	0.65	ug/Kg		10/08/18 09:24	10/13/18 13:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*81*		*39 - 105*	*10/08/18 09:24*	*10/13/18 13:56*	*1*
2-Fluorobiphenyl	*84*		*39 - 105*	*10/08/18 09:24*	*10/13/18 13:56*	*1*
Terphenyl-d14 (Surr)	*129*		*28 - 148*	*10/08/18 09:24*	*10/13/18 13:56*	*1*

Lab Sample ID: LCS 180-259105/2-A
Matrix: Sediment
Analysis Batch: 259743

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259105

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	333	316		ug/Kg		95	46 - 102
Benzo[a]anthracene	333	275		ug/Kg		82	47 - 100
Benzo[b]fluoranthene	333	278		ug/Kg		83	41 - 100
Benzo[k]fluoranthene	333	320		ug/Kg		96	44 - 100
Benzo[g,h,i]perylene	333	314		ug/Kg		94	43 - 101
Benzo[a]pyrene	333	317		ug/Kg		95	47 - 100
Chrysene	333	279		ug/Kg		84	45 - 100
Dibenz(a,h)anthracene	333	311		ug/Kg		93	45 - 102
Fluoranthene	333	282		ug/Kg		85	47 - 101
Fluorene	333	296		ug/Kg		89	47 - 100
Indeno[1,2,3-cd]pyrene	333	307		ug/Kg		92	45 - 102
Phenanthrene	333	307		ug/Kg		92	45 - 100
Pyrene	333	274		ug/Kg		82	40 - 105
Acenaphthene	333	301		ug/Kg		90	46 - 100
Acenaphthylene	333	284		ug/Kg		85	44 - 100
Naphthalene	333	260		ug/Kg		78	45 - 100

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*79*		*39 - 105*
2-Fluorobiphenyl	*82*		*39 - 105*
Terphenyl-d14 (Surr)	*80*		*28 - 148*

Method: EPA 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 180-82503-A-2-A MS
Matrix: Sediment
Analysis Batch: 259743

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 259105

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Anthracene	7.1	J F2	824	586		ug/Kg	☼	70	46 - 102
Benzo[a]anthracene	30	F2	824	557		ug/Kg	☼	64	47 - 100
Benzo[b]fluoranthene	140		824	647		ug/Kg	☼	61	41 - 100
Benzo[k]fluoranthene	31	F2	824	592		ug/Kg	☼	68	44 - 100
Benzo[g,h,i]perylene	87	F1 F2	824	756		ug/Kg	☼	81	43 - 101
Benzo[a]pyrene	57	F2	824	654		ug/Kg	☼	72	47 - 100
Chrysene	66	F2	824	606		ug/Kg	☼	65	45 - 100
Dibenz(a,h)anthracene	13	J F1 F2	824	647		ug/Kg	☼	77	45 - 102
Fluoranthene	66	F2	824	595		ug/Kg	☼	64	47 - 101
Fluorene	5.0	J F2	824	568		ug/Kg	☼	68	47 - 100
Indeno[1,2,3-cd]pyrene	66	F1 F2	824	708		ug/Kg	☼	78	45 - 102
Phenanthrene	39	F2	824	592		ug/Kg	☼	67	45 - 100
Pyrene	47	F2	824	543		ug/Kg	☼	60	40 - 105
Acenaphthene	4.7	U F2	824	578		ug/Kg	☼	70	46 - 100
Acenaphthylene	3.6	U F2	824	544		ug/Kg	☼	66	44 - 100
Naphthalene	3.4	J F2	824	488		ug/Kg	☼	59	45 - 100

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*64*		*39 - 105*
2-Fluorobiphenyl	*64*		*39 - 105*
Terphenyl-d14 (Surr)	*56*		*28 - 148*

Lab Sample ID: 180-82503-A-2-B MSD
Matrix: Sediment
Analysis Batch: 259743

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 259105

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Anthracene	7.1	J F2	802	824	F2	ug/Kg	☼	102	46 - 102	34	19
Benzo[a]anthracene	30	F2	802	749	F2	ug/Kg	☼	90	47 - 100	29	17
Benzo[b]fluoranthene	140		802	769		ug/Kg	☼	78	41 - 100	17	17
Benzo[k]fluoranthene	31	F2	802	779	F2	ug/Kg	☼	93	44 - 100	27	15
Benzo[g,h,i]perylene	87	F1 F2	802	948	F1 F2	ug/Kg	☼	107	43 - 101	23	19
Benzo[a]pyrene	57	F2	802	813	F2	ug/Kg	☼	94	47 - 100	22	17
Chrysene	66	F2	802	758	F2	ug/Kg	☼	86	45 - 100	22	19
Dibenz(a,h)anthracene	13	J F1 F2	802	856	F1 F2	ug/Kg	☼	105	45 - 102	28	18
Fluoranthene	66	F2	802	796	F2	ug/Kg	☼	91	47 - 101	29	17
Fluorene	5.0	J F2	802	767	F2	ug/Kg	☼	95	47 - 100	30	19
Indeno[1,2,3-cd]pyrene	66	F1 F2	802	904	F1 F2	ug/Kg	☼	104	45 - 102	24	18
Phenanthrene	39	F2	802	814	F2	ug/Kg	☼	97	45 - 100	32	17
Pyrene	47	F2	802	674	F2	ug/Kg	☼	78	40 - 105	22	21
Acenaphthene	4.7	U F2	802	780	F2	ug/Kg	☼	97	46 - 100	30	20
Acenaphthylene	3.6	U F2	802	739	F2	ug/Kg	☼	92	44 - 100	30	20
Naphthalene	3.4	J F2	802	688	F2	ug/Kg	☼	85	45 - 100	34	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Nitrobenzene-d5 (Surr)	*87*		*39 - 105*
2-Fluorobiphenyl	*81*		*39 - 105*

Method: EPA 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 180-82503-A-2-B MSD
Matrix: Sediment
Analysis Batch: 259743

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 259105

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Terphenyl-d14 (Surr)	*79*		*28 - 148*

Method: EPA 6020A - Metals (ICP/MS)

Lab Sample ID: MB 180-258603/1-A
Matrix: Sediment
Analysis Batch: 259407

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258603

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.013	U	0.050	0.013	mg/Kg		10/02/18 17:31	10/09/18 20:45	1
Cadmium	0.0085	U	0.050	0.0085	mg/Kg		10/02/18 17:31	10/09/18 20:45	1
Chromium	0.033	U	0.10	0.033	mg/Kg		10/02/18 17:31	10/09/18 20:45	1
Copper	0.057	U	0.10	0.057	mg/Kg		10/02/18 17:31	10/09/18 20:45	1
Lead	0.018	U	0.050	0.018	mg/Kg		10/02/18 17:31	10/09/18 20:45	1
Nickel	0.031	U	0.050	0.031	mg/Kg		10/02/18 17:31	10/09/18 20:45	1
Silver	0.0070	U	0.050	0.0070	mg/Kg		10/02/18 17:31	10/09/18 20:45	1
Zinc	0.17	U	0.25	0.17	mg/Kg		10/02/18 17:31	10/09/18 20:45	1

Lab Sample ID: LCS 180-258603/2-A
Matrix: Sediment
Analysis Batch: 259407

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258603

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	2.00	1.98		mg/Kg		99	80 - 120
Cadmium	2.50	2.68		mg/Kg		107	80 - 120
Chromium	10.0	9.59		mg/Kg		96	80 - 120
Copper	12.5	13.83		mg/Kg		111	80 - 120
Lead	1.00	1.09		mg/Kg		109	80 - 120
Nickel	25.0	24.66		mg/Kg		99	80 - 120
Silver	2.50	2.68		mg/Kg		107	80 - 120
Zinc	25.0	24.31		mg/Kg		97	80 - 120

Lab Sample ID: 180-82502-B-5-B MS
Matrix: Sediment
Analysis Batch: 259407

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 258603

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	5.2		2.74	7.94		mg/Kg	☼	101	75 - 125
Cadmium	0.38		3.42	3.81		mg/Kg	☼	100	75 - 125
Chromium	16.3		13.7	29.75		mg/Kg	☼	99	75 - 125
Copper	4.3		17.1	20.01		mg/Kg	☼	92	75 - 125
Lead	5.2	F1	1.37	6.94	F1	mg/Kg	☼	131	75 - 125
Nickel	8.2		34.2	38.28		mg/Kg	☼	88	75 - 125
Silver	0.029	J	3.42	3.47		mg/Kg	☼	101	75 - 125
Zinc	24.6		34.2	56.29		mg/Kg	☼	93	75 - 125

Method: EPA 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: 180-82502-B-5-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Sediment — **Prep Type: Total/NA**
Analysis Batch: 259407 — **Prep Batch: 258603**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	5.2		2.63	7.70		mg/Kg	☼	95	75 - 125	3	20
Cadmium	0.38		3.29	3.73		mg/Kg	☼	102	75 - 125	2	20
Chromium	16.3		13.1	29.32		mg/Kg	☼	99	75 - 125	1	20
Copper	4.3		16.4	19.04		mg/Kg	☼	90	75 - 125	5	20
Lead	5.2	F1	1.31	6.91	F1	mg/Kg	☼	134	75 - 125	1	20
Nickel	8.2		32.9	36.82		mg/Kg	☼	87	75 - 125	4	20
Silver	0.029	J	3.29	3.34		mg/Kg	☼	101	75 - 125	4	20
Zinc	24.6		32.9	54.34		mg/Kg	☼	91	75 - 125	4	20

Method: EPA 7471B - Mercury (CVAA)

Lab Sample ID: MB 180-258467/1-A — **Client Sample ID: Method Blank**
Matrix: Sediment — **Prep Type: Total/NA**
Analysis Batch: 258606 — **Prep Batch: 258467**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0037	U	0.017	0.0037	mg/Kg		10/01/18 17:56	10/02/18 16:30	1

Lab Sample ID: LCS 180-258467/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Sediment — **Prep Type: Total/NA**
Analysis Batch: 258606 — **Prep Batch: 258467**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.208	0.198		mg/Kg		95	80 - 120

Lab Sample ID: 180-82379-A-1-B MS — **Client Sample ID: Matrix Spike**
Matrix: Sediment — **Prep Type: Total/NA**
Analysis Batch: 258606 — **Prep Batch: 258467**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.018	J	0.0996	0.112		mg/Kg	☼	93	80 - 120

Lab Sample ID: 180-82379-A-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Sediment — **Prep Type: Total/NA**
Analysis Batch: 258606 — **Prep Batch: 258467**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.018	J	0.0972	0.133		mg/Kg	☼	117	80 - 120	17	20

Method: 3550B - Percent Moisture

Lab Sample ID: 180-82446-4 DU — **Client Sample ID: POS-SED-R14-S2 (5-10')**
Matrix: Sediment — **Prep Type: Total/NA**
Analysis Batch: 259377

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	30.2		33.8		%		11	20
Percent Solids	69.8		66.2		%		5	20

Method: 3550B - Percent Moisture (Continued)

Lab Sample ID: 180-82446-5 DU — **Client Sample ID: POS-SED-L15-S1 (0-0.5')**
Matrix: Sediment — **Prep Type: Total/NA**
Analysis Batch: 259389

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	18.2			17.1		%				6	20
Percent Solids	81.8			82.9		%				1	20

Method: EPA-Lloyd Kahn - Organic Carbon, Total (TOC)

Lab Sample ID: MB 180-258786/3 — **Client Sample ID: Method Blank**
Matrix: Sediment — **Prep Type: Total/NA**
Analysis Batch: 258786

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	746	U	1000	746	mg/Kg			10/03/18 14:08	1

Lab Sample ID: LCS 180-258786/4 — **Client Sample ID: Lab Control Sample**
Matrix: Sediment — **Prep Type: Total/NA**
Analysis Batch: 258786

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon - Duplicates			37800	30800		mg/Kg		81	75 - 125		

Lab Sample ID: 180-82502-B-5 MS — **Client Sample ID: Matrix Spike**
Matrix: Sediment — **Prep Type: Total/NA**
Analysis Batch: 258786

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon - Duplicates	2250		28400	25230		mg/Kg	☼	81	75 - 125		

Lab Sample ID: 180-82502-B-5 MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Sediment — **Prep Type: Total/NA**
Analysis Batch: 258786

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon - Duplicates	2250		27100	23370		mg/Kg	☼	78	75 - 125	8	20

Lab Sample ID: 180-82502-E-5 DU — **Client Sample ID: Duplicate**
Matrix: Sediment — **Prep Type: Total/NA**
Analysis Batch: 258786

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Organic Carbon - Duplicates	2250			2519		mg/Kg	☼			11	20

Lab Sample ID: MB 180-258943/3 — **Client Sample ID: Method Blank**
Matrix: Sediment — **Prep Type: Total/NA**
Analysis Batch: 258943

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	746	U	1000	746	mg/Kg			10/04/18 15:14	1

Method: EPA-Lloyd Kahn - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: LCS 180-258943/4
Matrix: Sediment
Analysis Batch: 258943

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon - Duplicates			37800	30500		mg/Kg		81	75 - 125		

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.
F1	MS and/or MSD Recovery is outside acceptance limits.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: Posillico Dev Company at Harbor Isle LLC
Project/Site: Harbor Isle

TestAmerica Job ID: 180-82446-1

GC/MS VOA

Analysis Batch: 258369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-82446-7	TRIP BLANK	Total/NA	Water	EPA 8260C	
MB 180-258369/5	Method Blank	Total/NA	Water	EPA 8260C	
LCS 180-258369/3	Lab Control Sample	Total/NA	Water	EPA 8260C	

Analysis Batch: 258478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-82446-1	POS-SED-S12-S1 (0-0.5')	Total/NA	Sediment	EPA 8260C	258519
180-82446-2	POS-SED-S12-S2 (5-10')	Total/NA	Sediment	EPA 8260C	258519
180-82446-3	POS-SED-R14-S1 (0-0.5')	Total/NA	Sediment	EPA 8260C	258519
180-82446-4	POS-SED-R14-S2 (5-10')	Total/NA	Sediment	EPA 8260C	258519
180-82446-5	POS-SED-L15-S1 (0-0.5')	Total/NA	Sediment	EPA 8260C	258519
180-82446-6	POS-SED-L15-S2 (5-10')	Total/NA	Sediment	EPA 8260C	258519
MB 180-258478/7	Method Blank	Total/NA	Sediment	EPA 8260C	
LCS 180-258478/5	Lab Control Sample	Total/NA	Sediment	EPA 8260C	
LCSD 180-258478/6	Lab Control Sample Dup	Total/NA	Sediment	EPA 8260C	

Prep Batch: 258519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-82446-1	POS-SED-S12-S1 (0-0.5')	Total/NA	Sediment	5035	
180-82446-2	POS-SED-S12-S2 (5-10')	Total/NA	Sediment	5035	
180-82446-3	POS-SED-R14-S1 (0-0.5')	Total/NA	Sediment	5035	
180-82446-4	POS-SED-R14-S2 (5-10')	Total/NA	Sediment	5035	
180-82446-5	POS-SED-L15-S1 (0-0.5')	Total/NA	Sediment	5035	
180-82446-6	POS-SED-L15-S2 (5-10')	Total/NA	Sediment	5035	

GC/MS Semi VOA

Prep Batch: 259105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-82446-1	POS-SED-S12-S1 (0-0.5')	Total/NA	Sediment	3541	
180-82446-2	POS-SED-S12-S2 (5-10')	Total/NA	Sediment	3541	
180-82446-3	POS-SED-R14-S1 (0-0.5')	Total/NA	Sediment	3541	
180-82446-4	POS-SED-R14-S2 (5-10')	Total/NA	Sediment	3541	
180-82446-5	POS-SED-L15-S1 (0-0.5')	Total/NA	Sediment	3541	
180-82446-6	POS-SED-L15-S2 (5-10')	Total/NA	Sediment	3541	
MB 180-259105/1-A	Method Blank	Total/NA	Sediment	3541	
LCS 180-259105/2-A	Lab Control Sample	Total/NA	Sediment	3541	
180-82503-A-2-A MS	Matrix Spike	Total/NA	Sediment	3541	
180-82503-A-2-B MSD	Matrix Spike Duplicate	Total/NA	Sediment	3541	

Analysis Batch: 259743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-82446-1	POS-SED-S12-S1 (0-0.5')	Total/NA	Sediment	EPA 8270D LL	259105
180-82446-2	POS-SED-S12-S2 (5-10')	Total/NA	Sediment	EPA 8270D LL	259105
MB 180-259105/1-A	Method Blank	Total/NA	Sediment	EPA 8270D LL	259105
LCS 180-259105/2-A	Lab Control Sample	Total/NA	Sediment	EPA 8270D LL	259105
180-82503-A-2-A MS	Matrix Spike	Total/NA	Sediment	EPA 8270D LL	259105
180-82503-A-2-B MSD	Matrix Spike Duplicate	Total/NA	Sediment	EPA 8270D LL	259105

GC/MS Semi VOA (Continued)

Analysis Batch: 259751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-82446-3	POS-SED-R14-S1 (0-0.5')	Total/NA	Sediment	EPA 8270D LL	259105
180-82446-4	POS-SED-R14-S2 (5-10')	Total/NA	Sediment	EPA 8270D LL	259105
180-82446-5	POS-SED-L15-S1 (0-0.5')	Total/NA	Sediment	EPA 8270D LL	259105
180-82446-6	POS-SED-L15-S2 (5-10')	Total/NA	Sediment	EPA 8270D LL	259105

Metals

Prep Batch: 258467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-82446-1	POS-SED-S12-S1 (0-0.5')	Total/NA	Sediment	7471B	
180-82446-2	POS-SED-S12-S2 (5-10')	Total/NA	Sediment	7471B	
180-82446-3	POS-SED-R14-S1 (0-0.5')	Total/NA	Sediment	7471B	
180-82446-4	POS-SED-R14-S2 (5-10')	Total/NA	Sediment	7471B	
180-82446-5	POS-SED-L15-S1 (0-0.5')	Total/NA	Sediment	7471B	
180-82446-6	POS-SED-L15-S2 (5-10')	Total/NA	Sediment	7471B	
MB 180-258467/1-A	Method Blank	Total/NA	Sediment	7471B	
LCS 180-258467/2-A	Lab Control Sample	Total/NA	Sediment	7471B	
180-82379-A-1-B MS	Matrix Spike	Total/NA	Sediment	7471B	
180-82379-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Sediment	7471B	

Prep Batch: 258603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-82446-1	POS-SED-S12-S1 (0-0.5')	Total/NA	Sediment	3050B	
180-82446-2	POS-SED-S12-S2 (5-10')	Total/NA	Sediment	3050B	
180-82446-3	POS-SED-R14-S1 (0-0.5')	Total/NA	Sediment	3050B	
180-82446-4	POS-SED-R14-S2 (5-10')	Total/NA	Sediment	3050B	
180-82446-5	POS-SED-L15-S1 (0-0.5')	Total/NA	Sediment	3050B	
180-82446-6	POS-SED-L15-S2 (5-10')	Total/NA	Sediment	3050B	
MB 180-258603/1-A	Method Blank	Total/NA	Sediment	3050B	
LCS 180-258603/2-A	Lab Control Sample	Total/NA	Sediment	3050B	
180-82502-B-5-B MS	Matrix Spike	Total/NA	Sediment	3050B	
180-82502-B-5-C MSD	Matrix Spike Duplicate	Total/NA	Sediment	3050B	

Analysis Batch: 258606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-82446-1	POS-SED-S12-S1 (0-0.5')	Total/NA	Sediment	EPA 7471B	258467
180-82446-2	POS-SED-S12-S2 (5-10')	Total/NA	Sediment	EPA 7471B	258467
180-82446-3	POS-SED-R14-S1 (0-0.5')	Total/NA	Sediment	EPA 7471B	258467
180-82446-4	POS-SED-R14-S2 (5-10')	Total/NA	Sediment	EPA 7471B	258467
180-82446-5	POS-SED-L15-S1 (0-0.5')	Total/NA	Sediment	EPA 7471B	258467
180-82446-6	POS-SED-L15-S2 (5-10')	Total/NA	Sediment	EPA 7471B	258467
MB 180-258467/1-A	Method Blank	Total/NA	Sediment	EPA 7471B	258467
LCS 180-258467/2-A	Lab Control Sample	Total/NA	Sediment	EPA 7471B	258467
180-82379-A-1-B MS	Matrix Spike	Total/NA	Sediment	EPA 7471B	258467
180-82379-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Sediment	EPA 7471B	258467

Analysis Batch: 259407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-82446-1	POS-SED-S12-S1 (0-0.5')	Total/NA	Sediment	EPA 6020A	258603
180-82446-2	POS-SED-S12-S2 (5-10')	Total/NA	Sediment	EPA 6020A	258603

Metals (Continued)

Analysis Batch: 259407 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-82446-3	POS-SED-R14-S1 (0-0.5')	Total/NA	Sediment	EPA 6020A	258603
180-82446-4	POS-SED-R14-S2 (5-10')	Total/NA	Sediment	EPA 6020A	258603
180-82446-5	POS-SED-L15-S1 (0-0.5')	Total/NA	Sediment	EPA 6020A	258603
180-82446-6	POS-SED-L15-S2 (5-10')	Total/NA	Sediment	EPA 6020A	258603
MB 180-258603/1-A	Method Blank	Total/NA	Sediment	EPA 6020A	258603
LCS 180-258603/2-A	Lab Control Sample	Total/NA	Sediment	EPA 6020A	258603
180-82502-B-5-B MS	Matrix Spike	Total/NA	Sediment	EPA 6020A	258603
180-82502-B-5-C MSD	Matrix Spike Duplicate	Total/NA	Sediment	EPA 6020A	258603

General Chemistry

Analysis Batch: 258786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-82446-2	POS-SED-S12-S2 (5-10')	Total/NA	Sediment	EPA-Lloyd Kahn	
180-82446-4	POS-SED-R14-S2 (5-10')	Total/NA	Sediment	EPA-Lloyd Kahn	
180-82446-5	POS-SED-L15-S1 (0-0.5')	Total/NA	Sediment	EPA-Lloyd Kahn	
180-82446-6	POS-SED-L15-S2 (5-10')	Total/NA	Sediment	EPA-Lloyd Kahn	
MB 180-258786/3	Method Blank	Total/NA	Sediment	EPA-Lloyd Kahn	
LCS 180-258786/4	Lab Control Sample	Total/NA	Sediment	EPA-Lloyd Kahn	
180-82502-B-5 MS	Matrix Spike	Total/NA	Sediment	EPA-Lloyd Kahn	
180-82502-B-5 MSD	Matrix Spike Duplicate	Total/NA	Sediment	EPA-Lloyd Kahn	
180-82502-E-5 DU	Duplicate	Total/NA	Sediment	EPA-Lloyd Kahn	

Analysis Batch: 258943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-82446-1	POS-SED-S12-S1 (0-0.5')	Total/NA	Sediment	EPA-Lloyd Kahn	
180-82446-3	POS-SED-R14-S1 (0-0.5')	Total/NA	Sediment	EPA-Lloyd Kahn	
MB 180-258943/3	Method Blank	Total/NA	Sediment	EPA-Lloyd Kahn	
LCS 180-258943/4	Lab Control Sample	Total/NA	Sediment	EPA-Lloyd Kahn	

Analysis Batch: 259377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-82446-1	POS-SED-S12-S1 (0-0.5')	Total/NA	Sediment	3550B	
180-82446-2	POS-SED-S12-S2 (5-10')	Total/NA	Sediment	3550B	
180-82446-3	POS-SED-R14-S1 (0-0.5')	Total/NA	Sediment	3550B	
180-82446-4	POS-SED-R14-S2 (5-10')	Total/NA	Sediment	3550B	
180-82446-4 DU	POS-SED-R14-S2 (5-10')	Total/NA	Sediment	3550B	

Analysis Batch: 259389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-82446-5	POS-SED-L15-S1 (0-0.5')	Total/NA	Sediment	3550B	
180-82446-6	POS-SED-L15-S2 (5-10')	Total/NA	Sediment	3550B	
180-82446-5 DU	POS-SED-L15-S1 (0-0.5')	Total/NA	Sediment	3550B	

Client Sample ID: POS-SED-S12-S1 (0-0.5')
Lab Sample ID: 180-82446-1

Date Collected: 09/27/18 10:20
Matrix: Sediment
Date Received: 09/28/18 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	3550B		1			259377	10/10/18 10:28	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: POS-SED-S12-S1 (0-0.5')
Lab Sample ID: 180-82446-1

Date Collected: 09/27/18 10:20
Matrix: Sediment
Date Received: 09/28/18 09:00
Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			405306.67 g	5 mL	258519	10/02/18 05:05	PJJ	TAL PIT
Total/NA	Analysis	EPA 8260C		1	5 mL	5 mL	258478	10/02/18 13:34	PJJ	TAL PIT
	Instrument ID: CHHP10									
Total/NA	Prep	3541			30.2 g	0.5 mL	259105	10/08/18 09:24	SAC	TAL PIT
Total/NA	Analysis	EPA 8270D LL		4	1 mL	1 mL	259743	10/14/18 00:32	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3050B			2.01 g	100 mL	258603	10/02/18 17:31	NAM	TAL PIT
Total/NA	Analysis	EPA 6020A		1			259407	10/09/18 22:26	WTR	TAL PIT
	Instrument ID: M									
Total/NA	Prep	7471B			1.20 g	100 mL	258467	10/01/18 17:56	KA	TAL PIT
Total/NA	Analysis	EPA 7471B		1			258606	10/02/18 16:37	KA	TAL PIT
	Instrument ID: HGZ									
Total/NA	Analysis	EPA-Lloyd Kahn		1			258943	10/04/18 16:36	JBF	TAL PIT
	Instrument ID: FLASHEA									

Client Sample ID: POS-SED-S12-S2 (5-10')
Lab Sample ID: 180-82446-2

Date Collected: 09/27/18 10:45
Matrix: Sediment
Date Received: 09/28/18 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	3550B		1			259377	10/10/18 10:28	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: POS-SED-S12-S2 (5-10')
Lab Sample ID: 180-82446-2

Date Collected: 09/27/18 10:45
Matrix: Sediment
Date Received: 09/28/18 09:00
Percent Solids: 77.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.2276 g	5 mL	258519	10/02/18 05:05	PJJ	TAL PIT
Total/NA	Analysis	EPA 8260C		1	5 mL	5 mL	258478	10/02/18 12:19	PJJ	TAL PIT
	Instrument ID: CHHP10									
Total/NA	Prep	3541			30.0 g	0.5 mL	259105	10/08/18 09:24	SAC	TAL PIT
Total/NA	Analysis	EPA 8270D LL		5	1 mL	1 mL	259743	10/14/18 00:59	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3050B			2.02 g	100 mL	258603	10/02/18 17:31	NAM	TAL PIT

Client Sample ID: POS-SED-S12-S2 (5-10')

Lab Sample ID: 180-82446-2
Date Collected: 09/27/18 10:45
Matrix: Sediment
Date Received: 09/28/18 09:00
Percent Solids: 77.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 6020A		1			259407	10/09/18 22:43	WTR	TAL PIT
	Instrument ID: M									
Total/NA	Prep	7471B			1.19 g	100 mL	258467	10/01/18 17:56	KA	TAL PIT
Total/NA	Analysis	EPA 7471B		1			258606	10/02/18 16:38	KA	TAL PIT
	Instrument ID: HGZ									
Total/NA	Analysis	EPA-Lloyd Kahn		1			258786	10/03/18 16:02	JBF	TAL PIT
	Instrument ID: FLASHEA									

Client Sample ID: POS-SED-R14-S1 (0-0.5')

Lab Sample ID: 180-82446-3
Date Collected: 09/27/18 13:35
Matrix: Sediment
Date Received: 09/28/18 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	3550B		1			259377	10/10/18 10:28	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: POS-SED-R14-S1 (0-0.5')

Lab Sample ID: 180-82446-3
Date Collected: 09/27/18 13:35
Matrix: Sediment
Date Received: 09/28/18 09:00
Percent Solids: 71.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.9261 g	5 mL	258519	10/02/18 05:05	PJJ	TAL PIT
Total/NA	Analysis	EPA 8260C		1	5 mL	5 mL	258478	10/02/18 14:25	PJJ	TAL PIT
	Instrument ID: CHHP10									
Total/NA	Prep	3541			30.0 g	0.5 mL	259105	10/08/18 09:24	SAC	TAL PIT
Total/NA	Analysis	EPA 8270D LL		10	1 mL	1 mL	259751	10/14/18 20:42	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3050B			1.98 g	100 mL	258603	10/02/18 17:31	NAM	TAL PIT
Total/NA	Analysis	EPA 6020A		1			259407	10/09/18 22:48	WTR	TAL PIT
	Instrument ID: M									
Total/NA	Prep	7471B			1.25 g	100 mL	258467	10/01/18 17:56	KA	TAL PIT
Total/NA	Analysis	EPA 7471B		1			258606	10/02/18 16:39	KA	TAL PIT
	Instrument ID: HGZ									
Total/NA	Analysis	EPA-Lloyd Kahn		1			258943	10/04/18 16:26	JBF	TAL PIT
	Instrument ID: FLASHEA									

Client Sample ID: POS-SED-R14-S2 (5-10')

Lab Sample ID: 180-82446-4
Date Collected: 09/27/18 13:35
Matrix: Sediment
Date Received: 09/28/18 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	3550B		1			259377	10/10/18 10:28	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: POS-SED-R14-S2 (5-10')

Lab Sample ID: 180-82446-4
Date Collected: 09/27/18 13:35
Matrix: Sediment
Date Received: 09/28/18 09:00
Percent Solids: 69.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.5492 g	5 mL	258519	10/02/18 05:05	PJJ	TAL PIT
Total/NA	Analysis	EPA 8260C		1	5 mL	5 mL	258478	10/02/18 13:09	PJJ	TAL PIT
	Instrument ID:	CHHP10								
Total/NA	Prep	3541			30.2 g	0.5 mL	259105	10/08/18 09:24	SAC	TAL PIT
Total/NA	Analysis	EPA 8270D LL		4	1 mL	1 mL	259751	10/14/18 21:10	DLF	TAL PIT
	Instrument ID:	CH71								
Total/NA	Prep	3050B			1.99 g	100 mL	258603	10/02/18 17:31	NAM	TAL PIT
Total/NA	Analysis	EPA 6020A		1			259407	10/09/18 22:53	WTR	TAL PIT
	Instrument ID:	M								
Total/NA	Prep	7471B			1.18 g	100 mL	258467	10/01/18 17:56	KA	TAL PIT
Total/NA	Analysis	EPA 7471B		1			258606	10/02/18 16:41	KA	TAL PIT
	Instrument ID:	HGZ								
Total/NA	Analysis	EPA-Lloyd Kahn		1			258786	10/03/18 16:23	JBF	TAL PIT
	Instrument ID:	FLASHEA								

Client Sample ID: POS-SED-L15-S1 (0-0.5')

Lab Sample ID: 180-82446-5
Date Collected: 09/27/18 15:20
Matrix: Sediment
Date Received: 09/28/18 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	3550B		1			259389	10/10/18 11:06	AVS	TAL PIT
	Instrument ID:	NOEQUIP								

Client Sample ID: POS-SED-L15-S1 (0-0.5')

Lab Sample ID: 180-82446-5
Date Collected: 09/27/18 15:20
Matrix: Sediment
Date Received: 09/28/18 09:00
Percent Solids: 81.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.1458 g	5 mL	258519	10/02/18 05:05	PJJ	TAL PIT
Total/NA	Analysis	EPA 8260C		1	5 mL	5 mL	258478	10/02/18 14:51	PJJ	TAL PIT
	Instrument ID:	CHHP10								
Total/NA	Prep	3541			30.0 g	0.5 mL	259105	10/08/18 09:24	SAC	TAL PIT
Total/NA	Analysis	EPA 8270D LL		10	1 mL	1 mL	259751	10/14/18 21:38	DLF	TAL PIT
	Instrument ID:	CH71								
Total/NA	Prep	3050B			1.99 g	100 mL	258603	10/02/18 17:31	NAM	TAL PIT
Total/NA	Analysis	EPA 6020A		1			259407	10/09/18 22:57	WTR	TAL PIT
	Instrument ID:	M								
Total/NA	Prep	7471B			1.18 g	100 mL	258467	10/01/18 17:56	KA	TAL PIT
Total/NA	Analysis	EPA 7471B		1			258606	10/02/18 16:42	KA	TAL PIT
	Instrument ID:	HGZ								
Total/NA	Analysis	EPA-Lloyd Kahn		1			258786	10/03/18 16:33	JBF	TAL PIT
	Instrument ID:	FLASHEA								

Lab Chronicle

Client: Posillico Dev Company at Harbor Isle LLC
Project/Site: Harbor Isle

TestAmerica Job ID: 180-82446-1

Client Sample ID: POS-SED-L15-S2 (5-10')

Lab Sample ID: 180-82446-6
Date Collected: 09/27/18 15:30
Matrix: Sediment
Date Received: 09/28/18 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	3550B		1			259389	10/10/18 11:06	AVS	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: POS-SED-L15-S2 (5-10')

Lab Sample ID: 180-82446-6
Date Collected: 09/27/18 15:30
Matrix: Sediment
Date Received: 09/28/18 09:00
Percent Solids: 63.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.0865 g	5 mL	258519	10/02/18 05:05	PJJ	TAL PIT
Total/NA	Analysis	EPA 8260C		1	5 mL	5 mL	258478	10/02/18 15:17	PJJ	TAL PIT
	Instrument ID: CHHP10									
Total/NA	Prep	3541			30.0 g	0.5 mL	259105	10/08/18 09:24	SAC	TAL PIT
Total/NA	Analysis	EPA 8270D LL		5	1 mL	1 mL	259751	10/14/18 22:06	DLF	TAL PIT
	Instrument ID: CH71									
Total/NA	Prep	3050B			1.98 g	100 mL	258603	10/02/18 17:31	NAM	TAL PIT
Total/NA	Analysis	EPA 6020A		1			259407	10/09/18 23:02	WTR	TAL PIT
	Instrument ID: M									
Total/NA	Prep	7471B			1.21 g	100 mL	258467	10/01/18 17:56	KA	TAL PIT
Total/NA	Analysis	EPA 7471B		1			258606	10/02/18 16:43	KA	TAL PIT
	Instrument ID: HGZ									
Total/NA	Analysis	EPA-Lloyd Kahn		1			258786	10/03/18 16:43	JBF	TAL PIT
	Instrument ID: FLASHEA									

Client Sample ID: TRIP BLANK

Lab Sample ID: 180-82446-7
Date Collected: 09/27/18 00:00
Matrix: Water
Date Received: 09/28/18 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 8260C		1	5 mL	5 mL	258369	10/01/18 11:25	KLG	TAL PIT
	Instrument ID: CHHP11									

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Prep

KA = Kayla Kalamasz

NAM = Nicole Marfisi

PJJ = Patrick Journet

SAC = Shawn Clemente

Batch Type: Analysis

AVS = Abbey Smith

DLF = Donald Ferguson

JBF = Joshua Fritsch

KA = Kayla Kalamasz

KLG = Kathy Gordon

PJJ = Patrick Journet

WTR = Bill Reinheimer

Accreditation/Certification Summary

Client: Posillico Dev Company at Harbor Isle LLC
Project/Site: Harbor Isle

TestAmerica Job ID: 180-82446-1

Laboratory: TestAmerica Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-19
California	State Program	9	2891	04-30-19
Connecticut	State Program	1	PH-0688	09-30-20
Florida	NELAP	4	E871008	06-30-19
Illinois	NELAP	5	200005	06-30-19
Kansas	NELAP	7	E-10350	01-31-19
Louisiana	NELAP	6	04041	06-30-19
Nevada	State Program	9	PA00164	07-31-19
New Hampshire	NELAP	1	2030	04-04-19
New Jersey	NELAP	2	PA005	06-30-19
New York	NELAP	2	11182	03-31-19
North Carolina (WW/SW)	State Program	4	434	12-31-18
Oregon	NELAP	10	PA-2151	01-28-19
Pennsylvania	NELAP	3	02-00416	04-30-19
South Carolina	State Program	4	89014	04-30-19
Texas	NELAP	6	T104704528-15-2	03-31-19
US Fish & Wildlife	Federal		LE94312A-1	07-31-19
USDA	Federal		P330-16-00211	06-26-19
Utah	NELAP	8	PA001462015-4	05-31-19
Virginia	NELAP	3	460189	09-14-19
West Virginia DEP	State Program	3	142	01-31-19
Wisconsin	State Program	5	998027800	08-31-19

Laboratory: TestAmerica Edison

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11452	04-01-19

Method 8260C

Volatile Organic Compounds (GC/MS) by Method 8260C

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Matrix: Sediment Level: Low

GC Column (1): DB-624 ID: 0.18(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
POS-SED-S12-S1 (0-0.5')	180-82446-1	103	95	111	96
POS-SED-S12-S2 (5-10')	180-82446-2	89	86	112	84
POS-SED-R14-S1 (0-0.5')	180-82446-3	103	101	105	100
POS-SED-R14-S2 (5-10')	180-82446-4	105	101	106	96
POS-SED-L15-S1 (0-0.5')	180-82446-5	110	105	118	100
POS-SED-L15-S2 (5-10')	180-82446-6	113	108	121	93
	MB 180-258478/7	99	99	103	99
	LCS 180-258478/5	101	100	104	100
	LCSD 180-258478/6	99	100	109	102

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	74-114
DCA = 1,2-Dichloroethane-d4 (Surr)	69-110
TOL = Toluene-d8 (Surr)	83-124
BFB = 4-Bromofluorobenzene (Surr)	70-110

Column to be used to flag recovery values

FORM II EPA 8260C

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
TRIP BLANK	180-82446-7	94	112	96	96
	MB 180-258369/5	90	100	98	95
	LCS 180-258369/3	96	101	100	99

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	68-128
DCA = 1,2-Dichloroethane-d4 (Surr)	73-143
TOL = Toluene-d8 (Surr)	75-124
BFB = 4-Bromofluorobenzene (Surr)	61-123

Column to be used to flag recovery values

FORM II EPA 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 11100103.D

Lab ID: LCS 180-258369/3 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Benzene	10.0	10.2	102	66-124	
Toluene	10.0	10.4	104	68-127	
Ethylbenzene	10.0	10.3	103	73-120	
Xylenes, Total	20.0	20.3	101	74-120	
m-Xylene & p-Xylene	10.0	10.2	102	74-120	
o-Xylene	10.0	10.1	101	72-122	

Column to be used to flag recovery and RPD values

FORM III EPA 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Matrix: Sediment Level: Low Lab File ID: 10100205.d

Lab ID: LCS 180-258478/5 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Benzene	40.0	40.4	101	75-121	
Toluene	40.0	40.2	101	79-123	
Ethylbenzene	40.0	37.5	94	79-120	
Xylenes, Total	80.0	76.2	95	79-119	
m-Xylene & p-Xylene	40.0	39.4	99	79-119	
o-Xylene	40.0	36.7	92	79-119	

Column to be used to flag recovery and RPD values

FORM III EPA 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Matrix: Sediment Level: Low Lab File ID: 10100206.d

Lab ID: LCSD 180-258478/6 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Benzene	40.0	39.5	99	2	20	75-121	
Toluene	40.0	40.2	100	0	20	79-123	
Ethylbenzene	40.0	37.1	93	1	20	79-120	
Xylenes, Total	80.0	75.8	95	0	20	79-119	
m-Xylene & p-Xylene	40.0	38.4	96	3	20	79-119	
o-Xylene	40.0	37.4	93	2	20	79-119	

Column to be used to flag recovery and RPD values

FORM III EPA 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Lab File ID: 10100207.d Lab Sample ID: MB 180-258478/7

Matrix: Sediment Heated Purge:(Y/N) N

Instrument ID: CHHP10 Date Analyzed: 10/02/2018 10:36

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 180-258478/5	10100205.d	10/02/2018 09:45
	LCSD 180-258478/6	10100206.d	10/02/2018 10:11
POS-SED-S12-S2 (5-10')	180-82446-2	10100211.d	10/02/2018 12:19
POS-SED-R14-S2 (5-10')	180-82446-4	10100213.d	10/02/2018 13:09
POS-SED-S12-S1 (0-0.5')	180-82446-1	10100214.d	10/02/2018 13:34
POS-SED-R14-S1 (0-0.5')	180-82446-3	10100216.d	10/02/2018 14:25
POS-SED-L15-S1 (0-0.5')	180-82446-5	10100217.d	10/02/2018 14:51
POS-SED-L15-S2 (5-10')	180-82446-6	10100218.d	10/02/2018 15:17

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Lab File ID: 11100105.D Lab Sample ID: MB 180-258369/5

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: CHHP11 Date Analyzed: 10/01/2018 08:08

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 180-258369/3	11100103.D	10/01/2018 07:14
TRIP BLANK	180-82446-7	11100111.D	10/01/2018 11:25

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Lab File ID: 10091201 .d BFB Injection Date: 09/12/2018

Instrument ID: CHHP10 BFB Injection Time: 06:23

Analysis Batch No.: 256523

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.6	
75	30.0 - 60.0 % of mass 95	48.2	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.5	(0.6) 1
174	50.0 - 120.00 % of mass 95	85.9	
175	5.0 - 9.0 % of mass 174	6.0	(7.0) 1
176	95.0 - 101.0 % of mass 174	82.6	(96.1) 1
177	5.0 - 9.0 % of mass 176	5.3	(6.4) 2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 180-256523/5	10091205.d	09/12/2018	09:19
	IC 180-256523/6	10091206.d	09/12/2018	09:44
	IC 180-256523/7	10091207.d	09/12/2018	10:10
	ICIS 180-256523/8	10091208.d	09/12/2018	10:36
	IC 180-256523/9	10091209.d	09/12/2018	11:01
	IC 180-256523/10	10091210.d	09/12/2018	11:27
	IC 180-256523/11	10091211.d	09/12/2018	11:52

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Lab File ID: 10100201 .d BFB Injection Date: 10/02/2018

Instrument ID: CHHP10 BFB Injection Time: 07:12

Analysis Batch No.: 258478

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.5	
75	30.0 - 60.0 % of mass 95	48.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	90.0	
175	5.0 - 9.0 % of mass 174	6.6	(7.3) 1
176	95.0 - 101.0 % of mass 174	87.5	(97.2) 1
177	5.0 - 9.0 % of mass 176	6.0	(6.9) 2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 180-258478/3	10100203.d	10/02/2018	08:51
	LCS 180-258478/5	10100205.d	10/02/2018	09:45
	LCSD 180-258478/6	10100206.d	10/02/2018	10:11
	MB 180-258478/7	10100207.d	10/02/2018	10:36
POS-SED-S12-S2 (5-10')	180-82446-2	10100211.d	10/02/2018	12:19
POS-SED-R14-S2 (5-10')	180-82446-4	10100213.d	10/02/2018	13:09
POS-SED-S12-S1 (0-0.5')	180-82446-1	10100214.d	10/02/2018	13:34
POS-SED-R14-S1 (0-0.5')	180-82446-3	10100216.d	10/02/2018	14:25
POS-SED-L15-S1 (0-0.5')	180-82446-5	10100217.d	10/02/2018	14:51
POS-SED-L15-S2 (5-10')	180-82446-6	10100218.d	10/02/2018	15:17

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Lab File ID: 11090101.D BFB Injection Date: 09/01/2018

Instrument ID: CHHP11 BFB Injection Time: 09:59

Analysis Batch No.: 255712

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.2	
75	30.0 - 60.0 % of mass 95	50.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	0.6	(0.6) 1
174	50.0 - 120.00 % of mass 95	93.1	
175	5.0 - 9.0 % of mass 174	6.6	(7.1) 1
176	95.0 - 101.0 % of mass 174	89.5	(96.1) 1
177	5.0 - 9.0 % of mass 176	6.0	(6.7) 2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 180-255712/3	11090103.D	09/01/2018	12:02
	IC 180-255712/4	11090104.D	09/01/2018	12:29
	ICIS 180-255712/5	11090105.D	09/01/2018	12:56
	IC 180-255712/6	11090106.D	09/01/2018	13:23
	IC 180-255712/7	11090107.D	09/01/2018	13:50
	IC 180-255712/8	11090108.D	09/01/2018	14:18
	IC 180-255712/9	11090109.D	09/01/2018	14:45
	IC 180-255712/10	11090110.D	09/01/2018	15:12

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Lab File ID: 11100101.D BFB Injection Date: 10/01/2018

Instrument ID: CHHP11 BFB Injection Time: 06:00

Analysis Batch No.: 258369

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.2	
75	30.0 - 60.0 % of mass 95	52.1	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.4	
173	Less than 2.0 % of mass 174	0.5	(0.6) 1
174	50.0 - 120.00 % of mass 95	93.4	
175	5.0 - 9.0 % of mass 174	6.8	(7.3) 1
176	95.0 - 101.0 % of mass 174	91.4	(97.9) 1
177	5.0 - 9.0 % of mass 176	5.9	(6.5) 2

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

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 180-258369/2	11100102.D	10/01/2018	06:47
	LCS 180-258369/3	11100103.D	10/01/2018	07:14
	MB 180-258369/5	11100105.D	10/01/2018	08:08
TRIP BLANK	180-82446-7	11100111.D	10/01/2018	11:25

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Sample No.: CCVIS 180-258478/3 Date Analyzed: 10/02/2018 08:51

Instrument ID: CHHP10 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 10100203.d Heated Purge: (Y/N) N

Calibration ID: 38562

		TBAd9		FB		CBNZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		197834	4.05	544701	7.02	130875	10.14
UPPER LIMIT		395668	4.55	1089402	7.52	261750	10.64
LOWER LIMIT		98917	3.55	272351	6.52	65438	9.64
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 180-258478/5		214476	4.02	528776	7.02	129501	10.14
LCSD 180-258478/6		224888	4.02	555984	7.02	129184	10.14
MB 180-258478/7		326941	3.98	638546	7.02	152239	10.14
180-82446-2	POS-SED-S12-S2 (5-10')	61357*	4.26	562008	7.00	120234	10.14
180-82446-4	POS-SED-R14-S2 (5-10')	192314	3.97	640590	7.02	153229	10.14
180-82446-1	POS-SED-S12-S1 (0-0.5')	159848	3.98	624024	7.02	141763	10.14
180-82446-3	POS-SED-R14-S1 (0-0.5')	232122	3.97	523490	7.02	126711	10.14
180-82446-5	POS-SED-L15-S1 (0-0.5')	171643	3.96	647727	7.02	147510	10.14
180-82446-6	POS-SED-L15-S2 (5-10')	241478	3.98	627393	7.02	140708	10.14

TBAd9 = TBA-d9 (IS)
FB = Fluorobenzene (IS)
CBNZd5 = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII EPA 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Sample No.: CCVIS 180-258478/3 Date Analyzed: 10/02/2018 08:51

Instrument ID: CHHP10 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 10100203.d Heated Purge: (Y/N) N

Calibration ID: 38562

		DCBd4					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		218102	12.48				
UPPER LIMIT		436204	12.98				
LOWER LIMIT		109051	11.98				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 180-258478/5		215210	12.48				
LCSD 180-258478/6		213302	12.49				
MB 180-258478/7		245749	12.48				
180-82446-2	POS-SED-S12-S2 (5-10')	158821	12.49				
180-82446-4	POS-SED-R14-S2 (5-10')	218709	12.49				
180-82446-1	POS-SED-S12-S1 (0-0.5')	200260	12.49				
180-82446-3	POS-SED-R14-S1 (0-0.5')	216649	12.49				
180-82446-5	POS-SED-L15-S1 (0-0.5')	203425	12.49				
180-82446-6	POS-SED-L15-S2 (5-10')	149756	12.49				

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII EPA 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Sample No.: CCVIS 180-258369/2 Date Analyzed: 10/01/2018 06:47

Instrument ID: CHHP11 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 11100102.D Heated Purge: (Y/N) N

Calibration ID: 38447

		TBAd9		FB		CBNZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		174719	4.58	819402	7.55	194056	10.66
UPPER LIMIT		349438	5.08	1638804	8.05	388112	11.16
LOWER LIMIT		87360	4.08	409701	7.05	97028	10.16
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 180-258369/3		156840	4.58	899083	7.55	206256	10.66
MB 180-258369/5		154470	4.57	1039242	7.56	243406	10.66
180-82446-7	TRIP BLANK	244867	4.57	1128473	7.55	271282	10.66

TBAd9 = TBA-d9 (IS)
FB = Fluorobenzene (IS)
CBNZd5 = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII EPA 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Sample No.: CCVIS 180-258369/2 Date Analyzed: 10/01/2018 06:47

Instrument ID: CHHP11 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): 11100102.D Heated Purge: (Y/N) N

Calibration ID: 38447

		DCBd4					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		342275	13.01				
UPPER LIMIT		684550	13.51				
LOWER LIMIT		171138	12.51				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 180-258369/3		364131	13.01				
MB 180-258369/5		412646	13.01				
180-82446-7	TRIP BLANK	468806	13.01				

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII EPA 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Client Sample ID: POS-SED-S12-S1 (0-0.5') Lab Sample ID: 180-82446-1

Matrix: Sediment Lab File ID: 10100214.d

Analysis Method: EPA 8260C Date Collected: 09/27/2018 10:20

Sample wt/vol: 405306.67(g) Date Analyzed: 10/02/2018 13:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: 17.0 Level: (low/med) Low

Analysis Batch No.: 258478 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	0.40	U	1.0	0.40
108-88-3	Toluene	0.34	U	1.0	0.34
100-41-4	Ethylbenzene	0.44	U	1.0	0.44
1330-20-7	Xylenes, Total	0.88	U	2.0	0.88
179601-23-1	m-Xylene & p-Xylene	0.38	U	1.0	0.38
95-47-6	o-Xylene	0.50	U	1.0	0.50

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		69-110
460-00-4	4-Bromofluorobenzene (Surr)	96		70-110
1868-53-7	Dibromofluoromethane (Surr)	103		74-114
2037-26-5	Toluene-d8 (Surr)	111		83-124

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP10\20181002-23895.b\10100214.d				
Lims ID:	180-82446-F-1-A				
Client ID:	POS-SED-S12-S1 (0-0.5')				
Sample Type:	Client				
Inject. Date:	02-Oct-2018 13:34:30	ALS Bottle#:	14	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	180-0023895-014				
Operator ID:	Patrick Journet	Instrument ID:	CHHP10		
Method:	\\ChromNA\Pittsburgh\ChromData\CHHP10\20181002-23895.b\MSVOA_CHHP10.m				
Limit Group:	VOA 8260C ICAL				
Last Update:	03-Oct-2018 06:34:45	Calib Date:	12-Sep-2018 11:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Pittsburgh\ChromData\CHHP10\20180912-23596.b\10091211.d				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK011				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	3.975	4.045	-0.070	100	159848	5000.0	
* 2 Fluorobenzene (IS)	96	7.022	7.016	0.006	98	624024	250.0	
* 3 Chlorobenzene-d5	119	10.139	10.139	0.000	86	141763	250.0	
* 4 1,4-Dichlorobenzene-d4	152	12.486	12.480	0.006	94	200260	250.0	
$ 5 Dibromofluoromethane (Surr	113	6.292	6.286	0.006	93	245570	257.7	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.663	6.657	0.006	0	272843	237.0	
$ 7 Toluene-d8 (Surr)	98	8.680	8.680	0.000	94	1103202	277.4	
$ 8 4-Bromofluorobenzene (Surr	95	11.327	11.327	0.000	91	336312	239.2	
73 Toluene	91	8.751	8.751	0.000	95	13499	2.73	

Reagents:

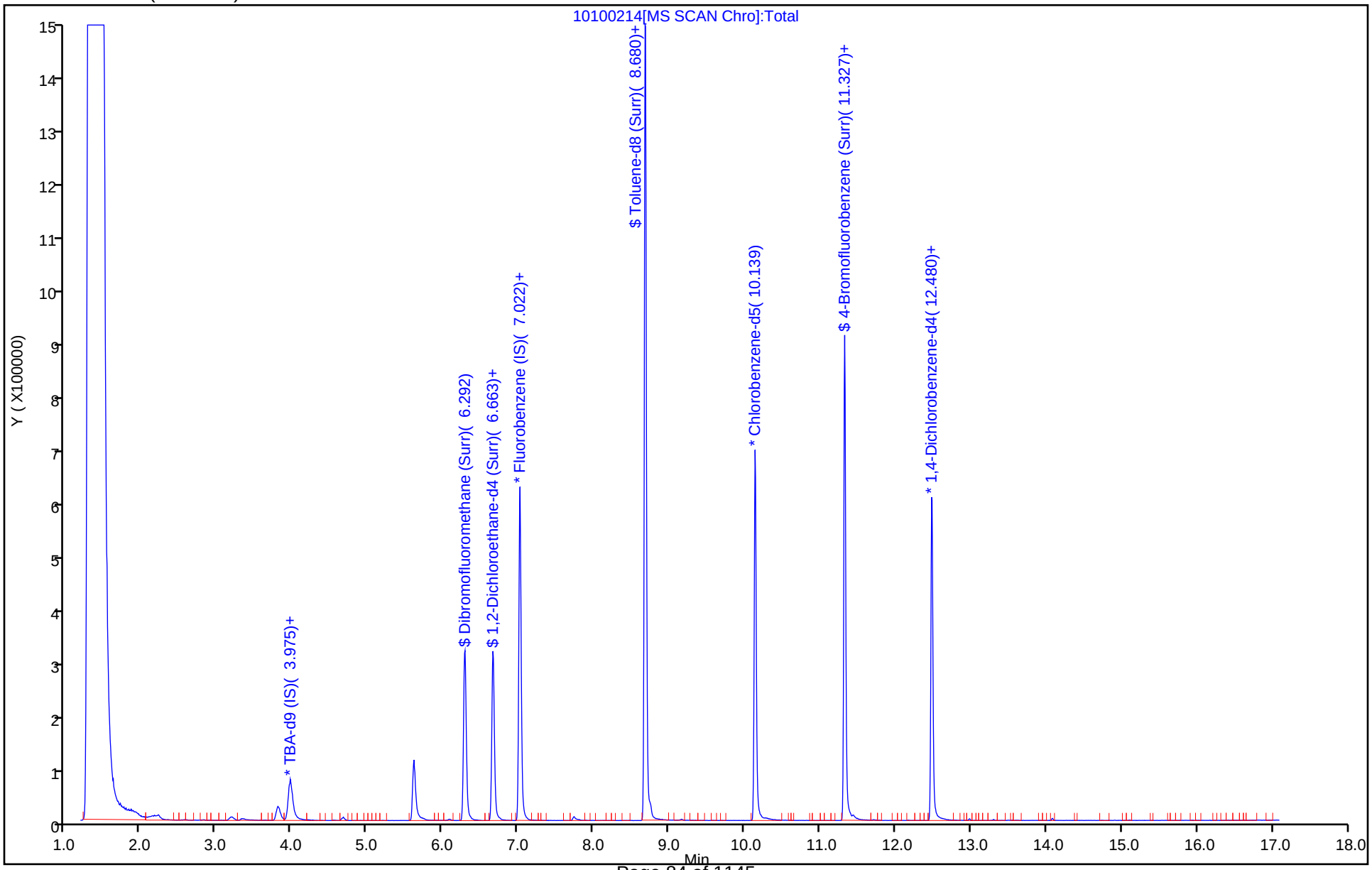
VOA8260SURR_00087	Amount Added: 10.00	Units: uL	Run Reagent
VOA8260INT_00087	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 03-Oct-2018 06:35:10 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP10\20181002-23895.b\10100214.d				
Injection Date:	02-Oct-2018 13:34:30	Instrument ID:	CHHP10	Operator ID:	Patrick Journet
Lims ID:	180-82446-F-1-A	Lab Sample ID:	180-82446-1	Worklist Smp#:	14
Client ID:	POS-SED-S12-S1 (0-0.5')				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	MSVOA_CHHP10	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-82446-1

SDG No.:

Client Sample ID: POS-SED-S12-S2 (5-10') | Lab Sample ID: 180-82446-2

Matrix: Sediment | Lab File ID: 10100211.d

Analysis Method: EPA 8260C | Date Collected: 09/27/2018 10:45

Sample wt/vol: 5.2276(g) | Date Analyzed: 10/02/2018 12:19

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: 22.6 | Level: (low/med) Low

Analysis Batch No.: 258478 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	3.0	U	7.6	3.0
108-88-3	Toluene	2.6	U	7.6	2.6
100-41-4	Ethylbenzene	3.3	U	7.6	3.3
1330-20-7	Xylenes, Total	6.6	U	15	6.6
179601-23-1	m-Xylene & p-Xylene	2.9	U	7.6	2.9
95-47-6	o-Xylene	3.7	U	7.6	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	86		69-110
460-00-4	4-Bromofluorobenzene (Surr)	84		70-110
1868-53-7	Dibromofluoromethane (Surr)	89		74-114
2037-26-5	Toluene-d8 (Surr)	112		83-124

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP10\20181002-23895.b\10100211.d				
Lims ID:	180-82446-F-2-A				
Client ID:	POS-SED-S12-S2 (5-10')				
Sample Type:	Client				
Inject. Date:	02-Oct-2018 12:19:30	ALS Bottle#:	11	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	180-0023895-011				
Operator ID:	Patrick Journet	Instrument ID:	CHHP10		
Method:	\\ChromNA\Pittsburgh\ChromData\CHHP10\20181002-23895.b\MSVOA_CHHP10.m				
Limit Group:	VOA 8260C ICAL				
Last Update:	03-Oct-2018 06:46:40	Calib Date:	12-Sep-2018 11:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Pittsburgh\ChromData\CHHP10\20180912-23596.b\10091211.d				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK011				

First Level Reviewer: journetp Date: 03-Oct-2018 06:46:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.263	4.045	0.218	99	61357	5000.0	sM
* 2 Fluorobenzene (IS)	96	7.004	7.016	-0.012	99	562008	250.0	
* 3 Chlorobenzene-d5	119	10.139	10.139	0.000	87	120234	250.0	
* 4 1,4-Dichlorobenzene-d4	152	12.486	12.480	0.006	94	158821	250.0	
$ 5 Dibromofluoromethane (Surr	113	6.287	6.286	0.001	93	191806	223.5	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.657	6.657	0.000	0	224055	216.1	
$ 7 Toluene-d8 (Surr)	98	8.680	8.680	0.000	94	942194	279.4	
$ 8 4-Bromofluorobenzene (Surr	95	11.327	11.327	0.000	89	250430	210.0	

QC Flag Legend

Processing Flags
s - Failed ISTD Recovery Test
Review Flags
M - Manually Integrated

Reagents:

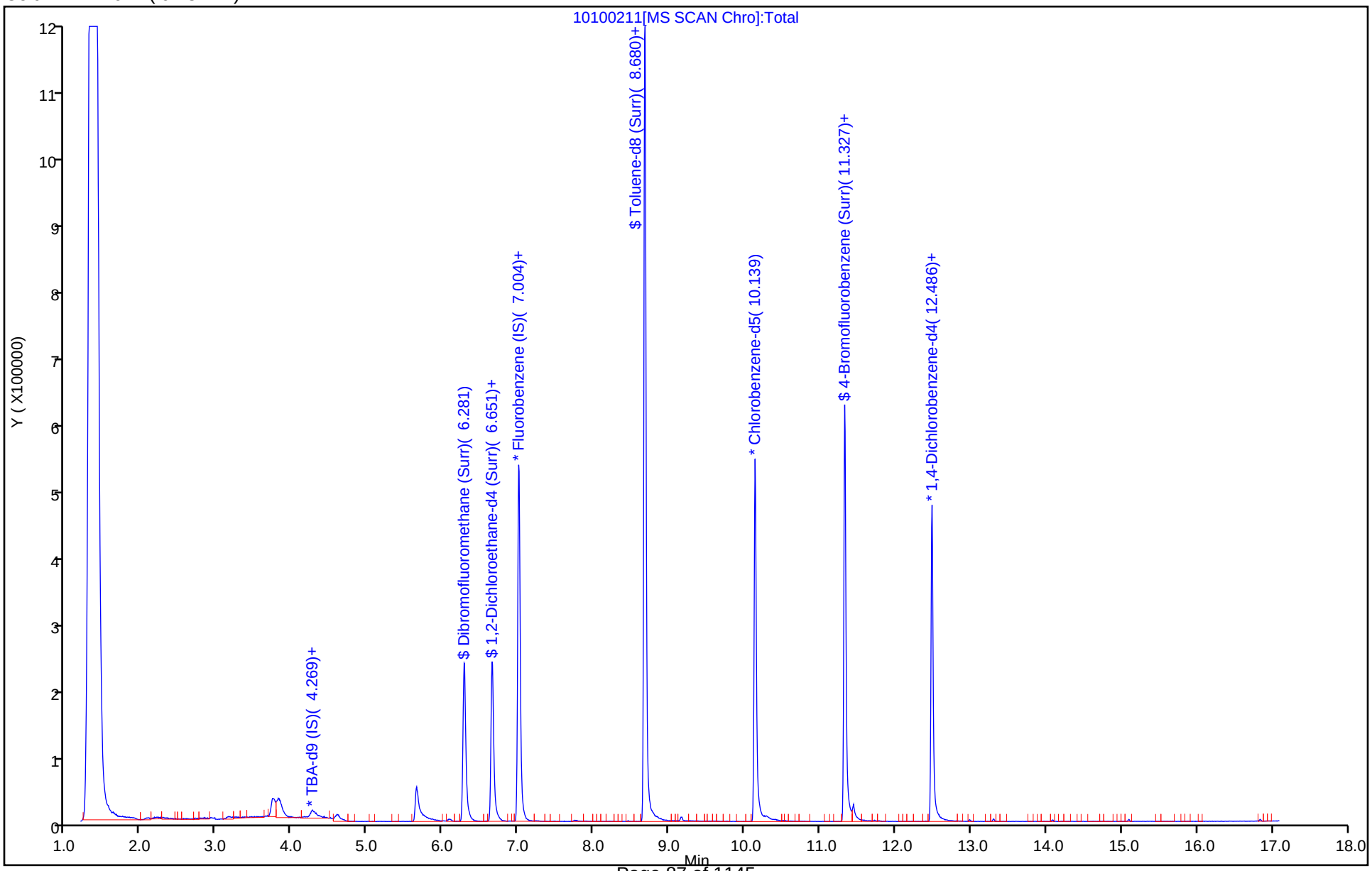
VOA8260SURR_00087	Amount Added: 10.00	Units: uL	Run Reagent
VOA8260INT_00087	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 03-Oct-2018 06:47:08 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP10\20181002-23895.b\10100211.d				
Injection Date:	02-Oct-2018 12:19:30	Instrument ID:	CHHP10	Operator ID:	Patrick Journet
Lims ID:	180-82446-F-2-A	Lab Sample ID:	180-82446-2	Worklist Smp#:	11
Client ID:	POS-SED-S12-S2 (5-10')				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	MSVOA_CHHP10	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

TestAmerica Pittsburgh

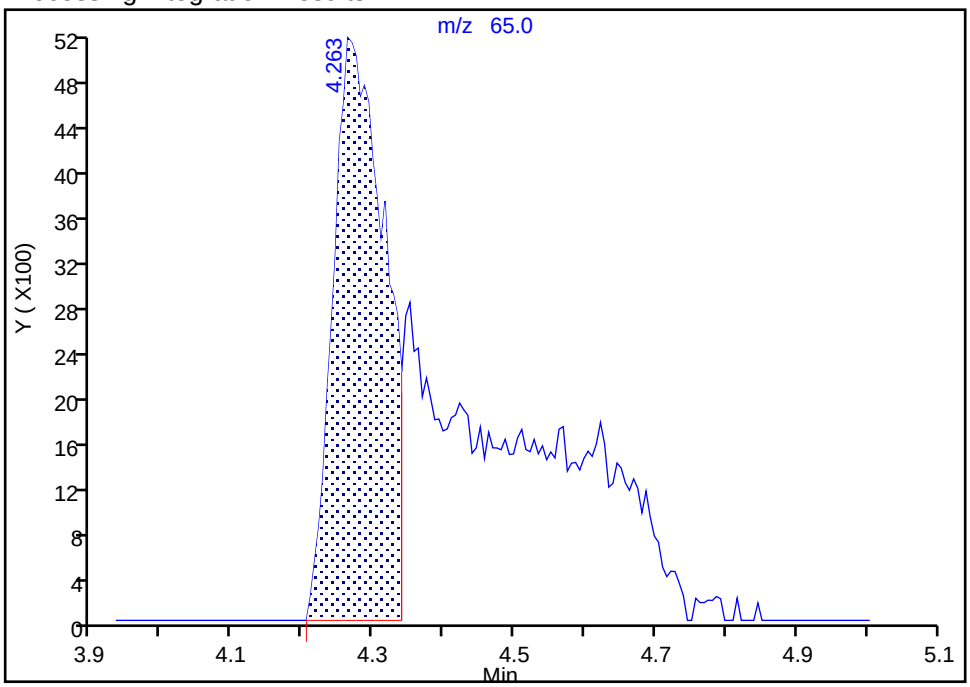
Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP10\20181002-23895.b\10100211.d				
Injection Date:	02-Oct-2018 12:19:30	Instrument ID:	CHHP10		
Lims ID:	180-82446-F-2-A	Lab Sample ID:	180-82446-2		
Client ID:	POS-SED-S12-S2 (5-10')				
Operator ID:	Patrick Journet	ALS Bottle#:	11	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP10	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

* 1 TBA-d9 (IS), CAS: 25725-11-5

Signal: 1

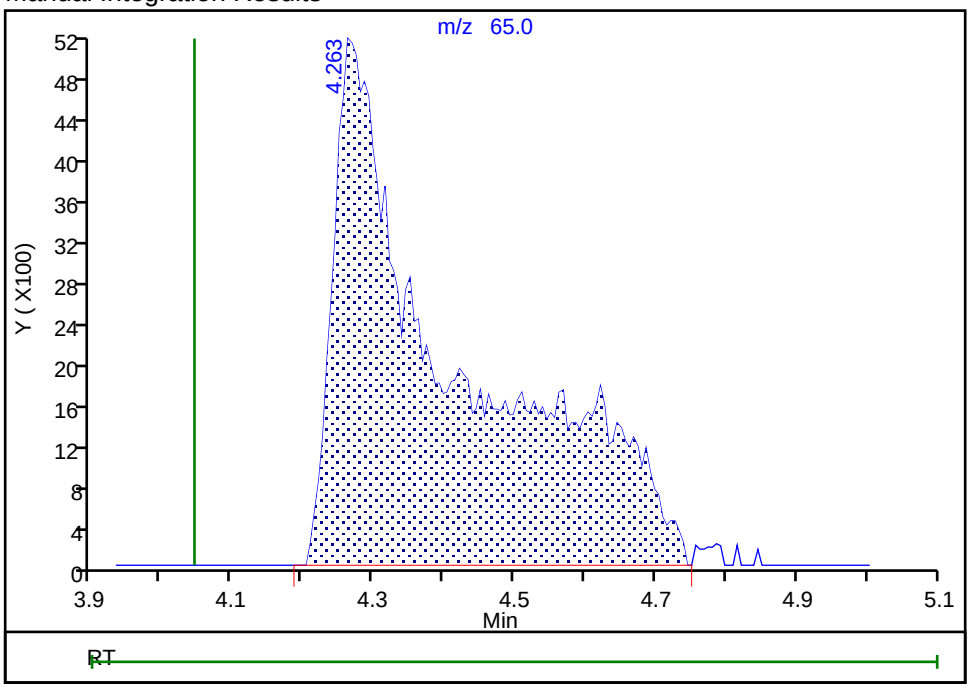
Processing Integration Results

RT: 4.26
Area: 26246
Amount: 5000.0000
Amount Units: ng



Manual Integration Results

RT: 4.26
Area: 61357
Amount: 5000.0000
Amount Units: ng



Reviewer: journetp, 03-Oct-2018 06:46:19

Audit Action: Manually Integrated Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-82446-1

SDG No.:

Client Sample ID: POS-SED-R14-S1 (0-0.5') | Lab Sample ID: 180-82446-3

Matrix: Sediment | Lab File ID: 10100216.d

Analysis Method: EPA 8260C | Date Collected: 09/27/2018 13:35

Sample wt/vol: 5.9261(g) | Date Analyzed: 10/02/2018 14:25

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: 28.3 | Level: (low/med) Low

Analysis Batch No.: 258478 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	3.1	U	7.9	3.1
108-88-3	Toluene	2.6	U	7.9	2.6
100-41-4	Ethylbenzene	3.4	U	7.9	3.4
1330-20-7	Xylenes, Total	6.8	U	16	6.8
179601-23-1	m-Xylene & p-Xylene	2.9	U	7.9	2.9
95-47-6	o-Xylene	3.8	U	7.9	3.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		69-110
460-00-4	4-Bromofluorobenzene (Surr)	100		70-110
1868-53-7	Dibromofluoromethane (Surr)	103		74-114
2037-26-5	Toluene-d8 (Surr)	105		83-124

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP10\20181002-23895.b\10100216.d				
Lims ID:	180-82446-E-3-A				
Client ID:	POS-SED-R14-S1 (0-0.5')				
Sample Type:	Client				
Inject. Date:	02-Oct-2018 14:25:30	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	180-0023895-016				
Operator ID:	Patrick Journet	Instrument ID:	CHHP10		
Method:	\\ChromNA\Pittsburgh\ChromData\CHHP10\20181002-23895.b\MSVOA_CHHP10.m				
Limit Group:	VOA 8260C ICAL				
Last Update:	03-Oct-2018 06:34:45	Calib Date:	12-Sep-2018 11:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Pittsburgh\ChromData\CHHP10\20180912-23596.b\10091211.d				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK011				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	3.969	4.045	-0.076	100	232122	5000.0	
* 2 Fluorobenzene (IS)	96	7.022	7.016	0.006	98	523490	250.0	
* 3 Chlorobenzene-d5	119	10.139	10.139	0.000	87	126711	250.0	
* 4 1,4-Dichlorobenzene-d4	152	12.486	12.480	0.006	93	216649	250.0	
$ 5 Dibromofluoromethane (Surr	113	6.286	6.286	0.000	94	205873	257.5	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.663	6.657	0.006	0	243584	252.2	
$ 7 Toluene-d8 (Surr)	98	8.680	8.680	0.000	94	935122	263.1	
$ 8 4-Bromofluorobenzene (Surr	95	11.327	11.327	0.000	90	313981	249.9	

Reagents:

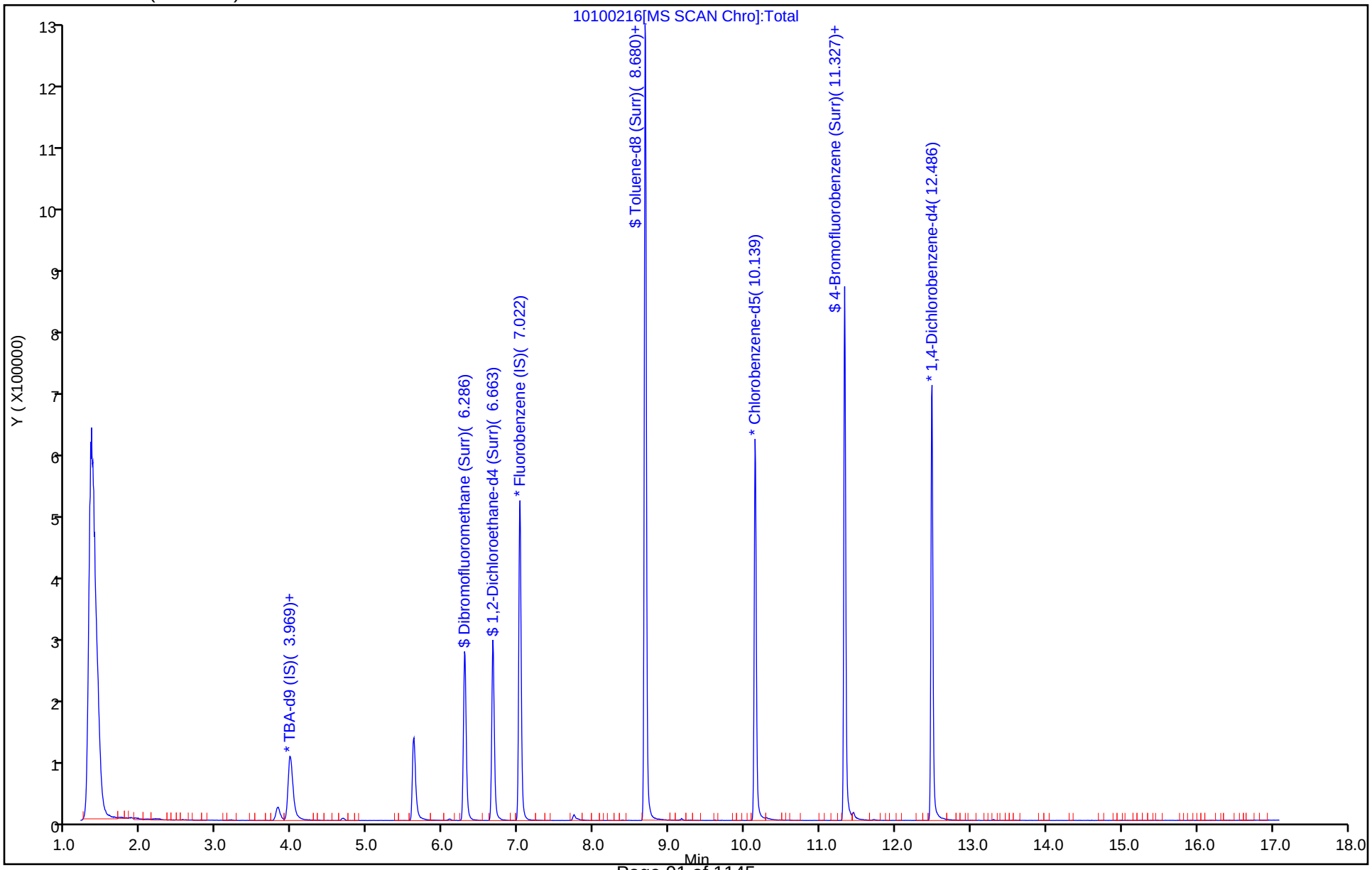
VOA8260SURR_00087	Amount Added: 10.00	Units: uL	Run Reagent
VOA8260INT_00087	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 03-Oct-2018 06:35:13 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP10\20181002-23895.b\10100216.d				
Injection Date:	02-Oct-2018 14:25:30	Instrument ID:	CHHP10	Operator ID:	Patrick Journet
Lims ID:	180-82446-E-3-A	Lab Sample ID:	180-82446-3	Worklist Smp#:	16
Client ID:	POS-SED-R14-S1 (0-0.5')				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	MSVOA_CHHP10	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-82446-1

SDG No.:

Client Sample ID: POS-SED-R14-S2 (5-10') | Lab Sample ID: 180-82446-4

Matrix: Sediment | Lab File ID: 10100213.d

Analysis Method: EPA 8260C | Date Collected: 09/27/2018 13:35

Sample wt/vol: 5.5492(g) | Date Analyzed: 10/02/2018 13:09

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: 30.2 | Level: (low/med) Low

Analysis Batch No.: 258478 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	3.4	U	8.6	3.4
108-88-3	Toluene	2.9	U	8.6	2.9
100-41-4	Ethylbenzene	3.7	U	8.6	3.7
1330-20-7	Xylenes, Total	7.4	U	17	7.4
179601-23-1	m-Xylene & p-Xylene	3.2	U	8.6	3.2
95-47-6	o-Xylene	4.2	U	8.6	4.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		69-110
460-00-4	4-Bromofluorobenzene (Surr)	96		70-110
1868-53-7	Dibromofluoromethane (Surr)	105		74-114
2037-26-5	Toluene-d8 (Surr)	106		83-124

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP10\20181002-23895.b\10100213.d				
Lims ID:	180-82446-F-4-A				
Client ID:	POS-SED-R14-S2 (5-10')				
Sample Type:	Client				
Inject. Date:	02-Oct-2018 13:09:30	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	180-0023895-013				
Operator ID:	Patrick Journet	Instrument ID:	CHHP10		
Method:	\\ChromNA\Pittsburgh\ChromData\CHHP10\20181002-23895.b\MSVOA_CHHP10.m				
Limit Group:	VOA 8260C ICAL				
Last Update:	03-Oct-2018 06:34:45	Calib Date:	12-Sep-2018 11:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Pittsburgh\ChromData\CHHP10\20180912-23596.b\10091211.d				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK011				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	3.969	4.045	-0.076	99	192314	5000.0	
* 2 Fluorobenzene (IS)	96	7.016	7.016	0.000	99	640590	250.0	
* 3 Chlorobenzene-d5	119	10.139	10.139	0.000	86	153229	250.0	
* 4 1,4-Dichlorobenzene-d4	152	12.486	12.480	0.006	93	218709	250.0	
$ 5 Dibromofluoromethane (Surr	113	6.287	6.286	0.001	94	257114	262.8	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.657	6.657	0.000	0	298357	252.4	
$ 7 Toluene-d8 (Surr)	98	8.681	8.680	0.001	94	1143188	266.0	
$ 8 4-Bromofluorobenzene (Surr	95	11.327	11.327	0.000	92	363442	239.2	

Reagents:

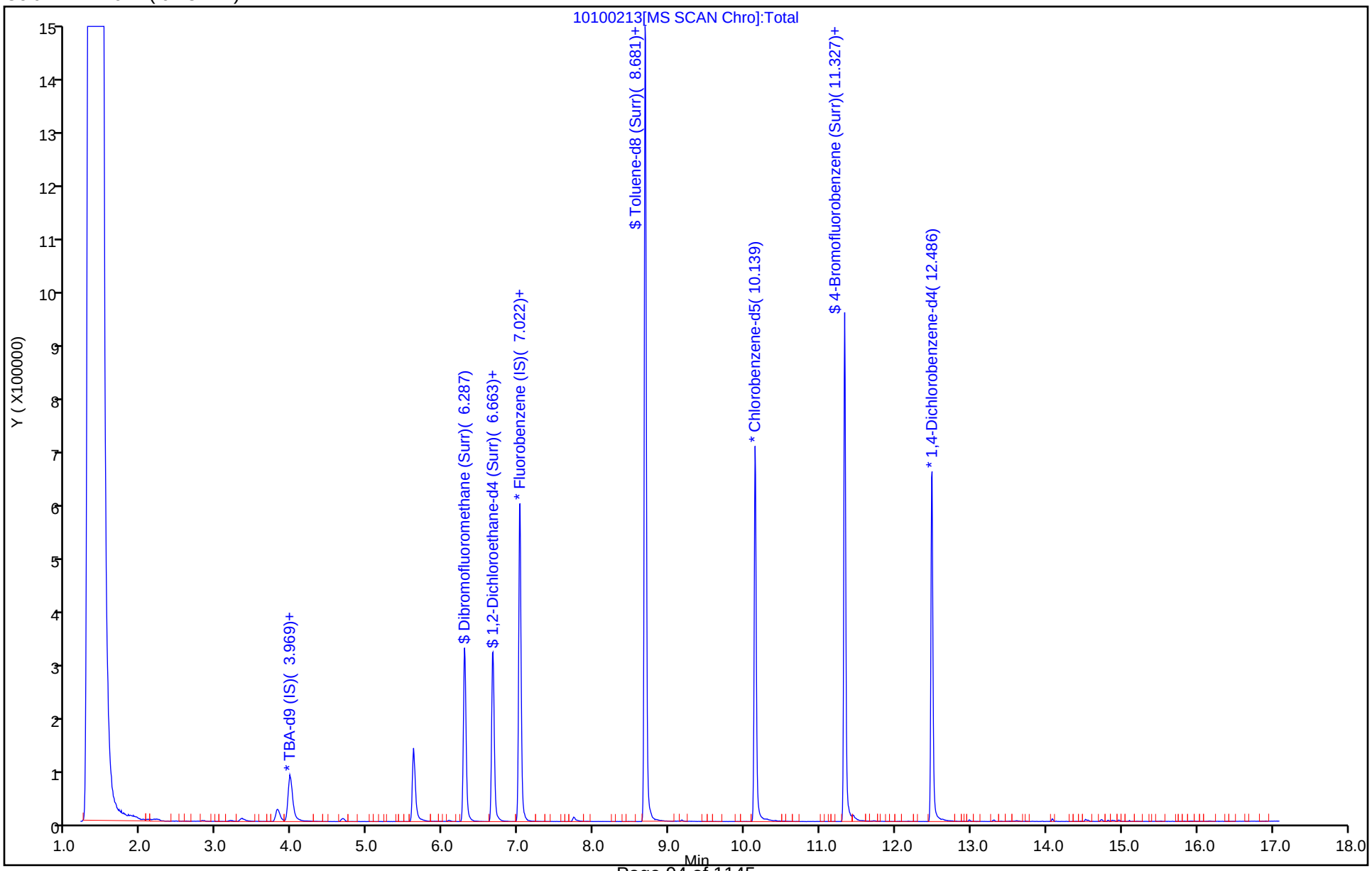
VOA8260SURR_00087	Amount Added: 10.00	Units: uL	Run Reagent
VOA8260INT_00087	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 03-Oct-2018 06:35:09 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP10\20181002-23895.b\10100213.d				
Injection Date:	02-Oct-2018 13:09:30	Instrument ID:	CHHP10	Operator ID:	Patrick Journet
Lims ID:	180-82446-F-4-A	Lab Sample ID:	180-82446-4	Worklist Smp#:	13
Client ID:	POS-SED-R14-S2 (5-10')				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	MSVOA_CHHP10	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-82446-1

SDG No.:

Client Sample ID: POS-SED-L15-S1 (0-0.5') | Lab Sample ID: 180-82446-5

Matrix: Sediment | Lab File ID: 10100217.d

Analysis Method: EPA 8260C | Date Collected: 09/27/2018 15:20

Sample wt/vol: 5.1458(g) | Date Analyzed: 10/02/2018 14:51

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: 18.2 | Level: (low/med) Low

Analysis Batch No.: 258478 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	2.8	U	7.0	2.8
108-88-3	Toluene	2.4	U	7.0	2.4
100-41-4	Ethylbenzene	3.0	U	7.0	3.0
1330-20-7	Xylenes, Total	6.1	U	14	6.1
179601-23-1	m-Xylene & p-Xylene	2.6	U	7.0	2.6
95-47-6	o-Xylene	3.4	U	7.0	3.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		69-110
460-00-4	4-Bromofluorobenzene (Surr)	100		70-110
1868-53-7	Dibromofluoromethane (Surr)	110		74-114
2037-26-5	Toluene-d8 (Surr)	118		83-124

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP10\20181002-23895.b\10100217.d				
Lims ID:	180-82446-F-5-A				
Client ID:	POS-SED-L15-S1 (0-0.5')				
Sample Type:	Client				
Inject. Date:	02-Oct-2018 14:51:30	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	180-0023895-017				
Operator ID:	Patrick Journet	Instrument ID:	CHHP10		
Method:	\\ChromNA\Pittsburgh\ChromData\CHHP10\20181002-23895.b\MSVOA_CHHP10.m				
Limit Group:	VOA 8260C ICAL				
Last Update:	03-Oct-2018 06:34:45	Calib Date:	12-Sep-2018 11:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Pittsburgh\ChromData\CHHP10\20180912-23596.b\10091211.d				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK011				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	3.957	4.045	-0.088	99	171643	5000.0	
* 2 Fluorobenzene (IS)	96	7.022	7.016	0.006	99	647727	250.0	
* 3 Chlorobenzene-d5	119	10.139	10.139	0.000	86	147510	250.0	
* 4 1,4-Dichlorobenzene-d4	152	12.486	12.480	0.006	93	203425	250.0	
$ 5 Dibromofluoromethane (Surr	113	6.292	6.286	0.006	93	271631	274.6	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.663	6.657	0.006	0	313475	262.3	
$ 7 Toluene-d8 (Surr)	98	8.681	8.680	0.001	94	1216503	294.0	
$ 8 4-Bromofluorobenzene (Surr	95	11.327	11.327	0.000	90	364789	249.4	

Reagents:

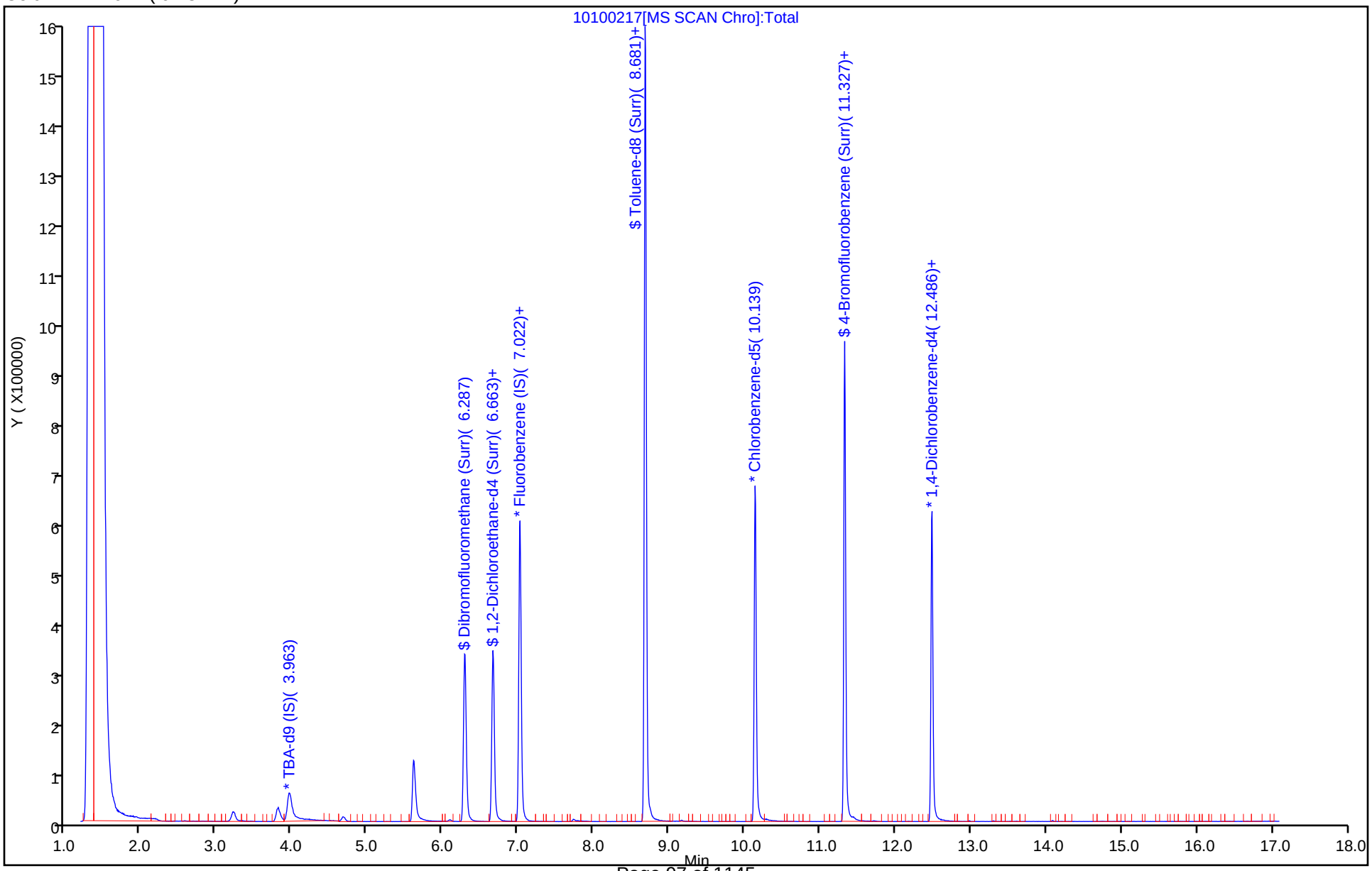
VOA8260SURR_00087	Amount Added: 10.00	Units: uL	Run Reagent
VOA8260INT_00087	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 03-Oct-2018 06:35:14 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP10\20181002-23895.b\10100217.d				
Injection Date:	02-Oct-2018 14:51:30	Instrument ID:	CHHP10	Operator ID:	Patrick Journet
Lims ID:	180-82446-F-5-A	Lab Sample ID:	180-82446-5	Worklist Smp#:	17
Client ID:	POS-SED-L15-S1 (0-0.5')				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	MSVOA_CHHP10	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-82446-1

SDG No.:

Client Sample ID: POS-SED-L15-S2 (5-10') | Lab Sample ID: 180-82446-6

Matrix: Sediment | Lab File ID: 10100218.d

Analysis Method: EPA 8260C | Date Collected: 09/27/2018 15:30

Sample wt/vol: 5.0865(g) | Date Analyzed: 10/02/2018 15:17

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: 36.6 | Level: (low/med) Low

Analysis Batch No.: 258478 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	4.2	U	11	4.2
108-88-3	Toluene	3.6	U	11	3.6
100-41-4	Ethylbenzene	4.6	U	11	4.6
1330-20-7	Xylenes, Total	9.2	U	21	9.2
179601-23-1	m-Xylene & p-Xylene	4.0	U	11	4.0
95-47-6	o-Xylene	5.2	U	11	5.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		69-110
460-00-4	4-Bromofluorobenzene (Surr)	93		70-110
1868-53-7	Dibromofluoromethane (Surr)	113		74-114
2037-26-5	Toluene-d8 (Surr)	121		83-124

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP10\20181002-23895.b\10100218.d				
Lims ID:	180-82446-F-6-A				
Client ID:	POS-SED-L15-S2 (5-10')				
Sample Type:	Client				
Inject. Date:	02-Oct-2018 15:17:30	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	180-0023895-018				
Operator ID:	Patrick Journet	Instrument ID:	CHHP10		
Method:	\\ChromNA\Pittsburgh\ChromData\CHHP10\20181002-23895.b\MSVOA_CHHP10.m				
Limit Group:	VOA 8260C ICAL				
Last Update:	03-Oct-2018 06:34:45	Calib Date:	12-Sep-2018 11:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Pittsburgh\ChromData\CHHP10\20180912-23596.b\10091211.d				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK011				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	3.981	4.045	-0.064	99	241478	5000.0	
* 2 Fluorobenzene (IS)	96	7.022	7.016	0.006	99	627393	250.0	
* 3 Chlorobenzene-d5	119	10.139	10.139	0.000	86	140708	250.0	
* 4 1,4-Dichlorobenzene-d4	152	12.486	12.480	0.006	93	149756	250.0	
$ 5 Dibromofluoromethane (Surr	113	6.287	6.286	0.001	93	270046	281.8	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.663	6.657	0.006	0	312232	269.7	
$ 7 Toluene-d8 (Surr)	98	8.686	8.680	0.006	93	1194424	302.6	
$ 8 4-Bromofluorobenzene (Surr	95	11.327	11.327	0.000	90	323545	231.9	

Reagents:

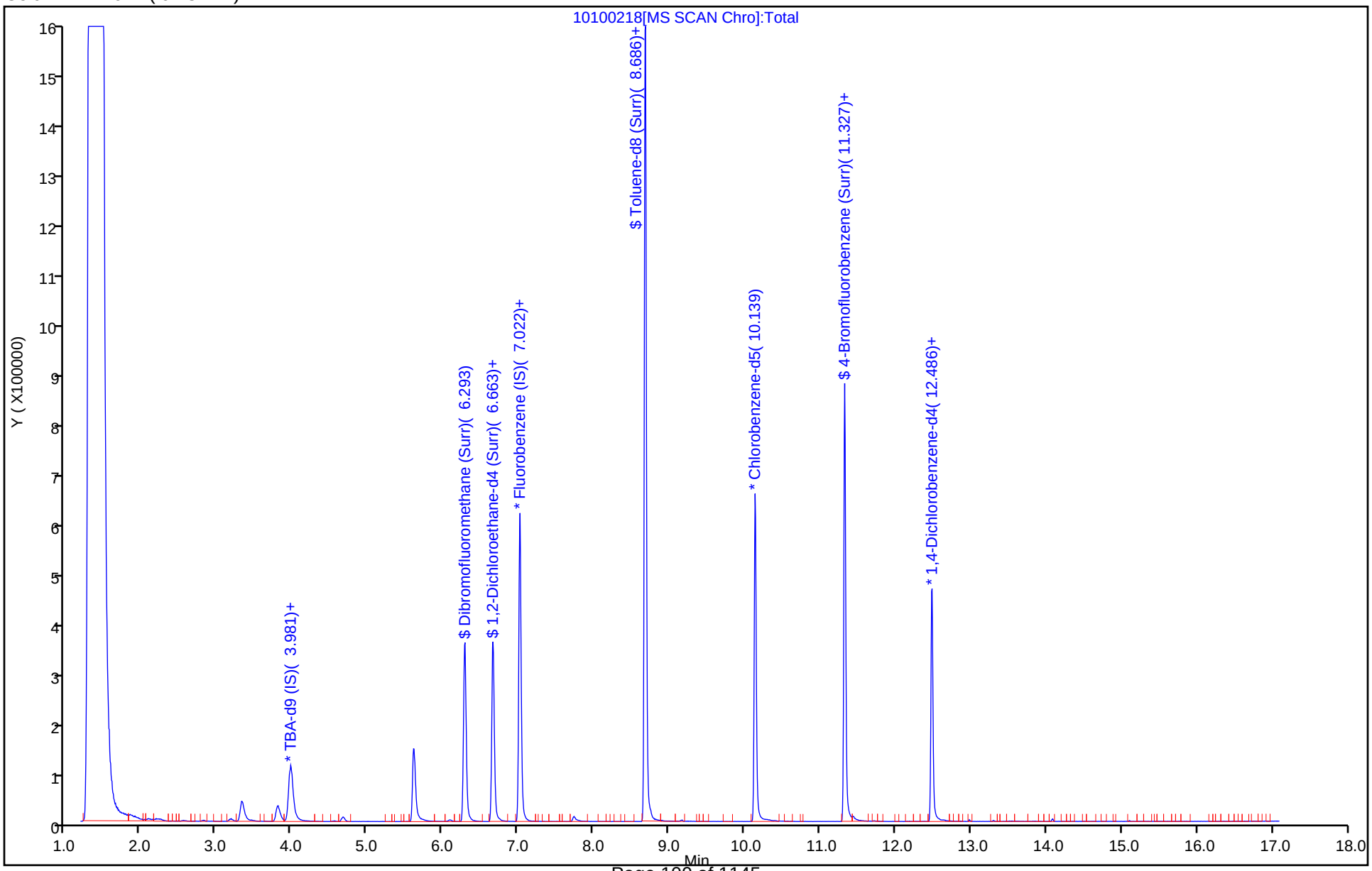
VOA8260SURR_00087	Amount Added: 10.00	Units: uL	Run Reagent
VOA8260INT_00087	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 03-Oct-2018 06:35:15 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP10\20181002-23895.b\10100218.d				
Injection Date:	02-Oct-2018 15:17:30	Instrument ID:	CHHP10	Operator ID:	Patrick Journet
Lims ID:	180-82446-F-6-A	Lab Sample ID:	180-82446-6	Worklist Smp#:	18
Client ID:	POS-SED-L15-S2 (5-10')				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	MSVOA_CHHP10	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-82446-1

SDG No.:

Client Sample ID: TRIP BLANK | Lab Sample ID: 180-82446-7

Matrix: Water | Lab File ID: 11100111.D

Analysis Method: EPA 8260C | Date Collected: 09/27/2018 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/01/2018 11:25

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 258369 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	2.0	U	5.0	2.0
108-88-3	Toluene	1.7	U	5.0	1.7
100-41-4	Ethylbenzene	2.2	U	5.0	2.2
1330-20-7	Xylenes, Total	4.3	U	10	4.3
179601-23-1	m-Xylene & p-Xylene	1.9	U	5.0	1.9
95-47-6	o-Xylene	2.4	U	5.0	2.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		73-143
460-00-4	4-Bromofluorobenzene (Surr)	96		61-123
1868-53-7	Dibromofluoromethane (Surr)	94		68-128
2037-26-5	Toluene-d8 (Surr)	96		75-124

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP11\20181001-23880.b\11100111.D				
Lims ID:	180-82446-B-7				
Client ID:	TRIP BLANK				
Sample Type:	Client				
Inject. Date:	01-Oct-2018 11:25:23	ALS Bottle#:	0	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	180-0023880-011				
Operator ID:	Patrick Journet	Instrument ID:	CHHP11		
Method:	\\ChromNA\Pittsburgh\ChromData\CHHP11\20181001-23880.b\MSVOA_CHHP11.m				
Limit Group:	VOA 8260C ICAL				
Last Update:	01-Oct-2018 12:28:25	Calib Date:	01-Sep-2018 15:12:00		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Pittsburgh\ChromData\CHHP11\20180901-23450.b\11090110.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX0325				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.569	4.580	-0.011	100	244867	1000.0	
* 2 Fluorobenzene (IS)	96	7.551	7.551	0.000	99	1128473	50.0	
* 3 Chlorobenzene-d5	119	10.657	10.657	0.000	84	271282	50.0	
* 4 1,4-Dichlorobenzene-d4	152	13.012	13.012	0.000	92	468806	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.829	6.829	0.000	58	251063	46.9	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.199	7.199	0.000	0	263291	55.9	
$ 7 Toluene-d8 (Surr)	98	9.201	9.201	0.000	93	1093316	48.2	
$ 8 4-Bromofluorobenzene (Surr	95	11.843	11.843	0.000	92	376085	48.2	

Reagents:

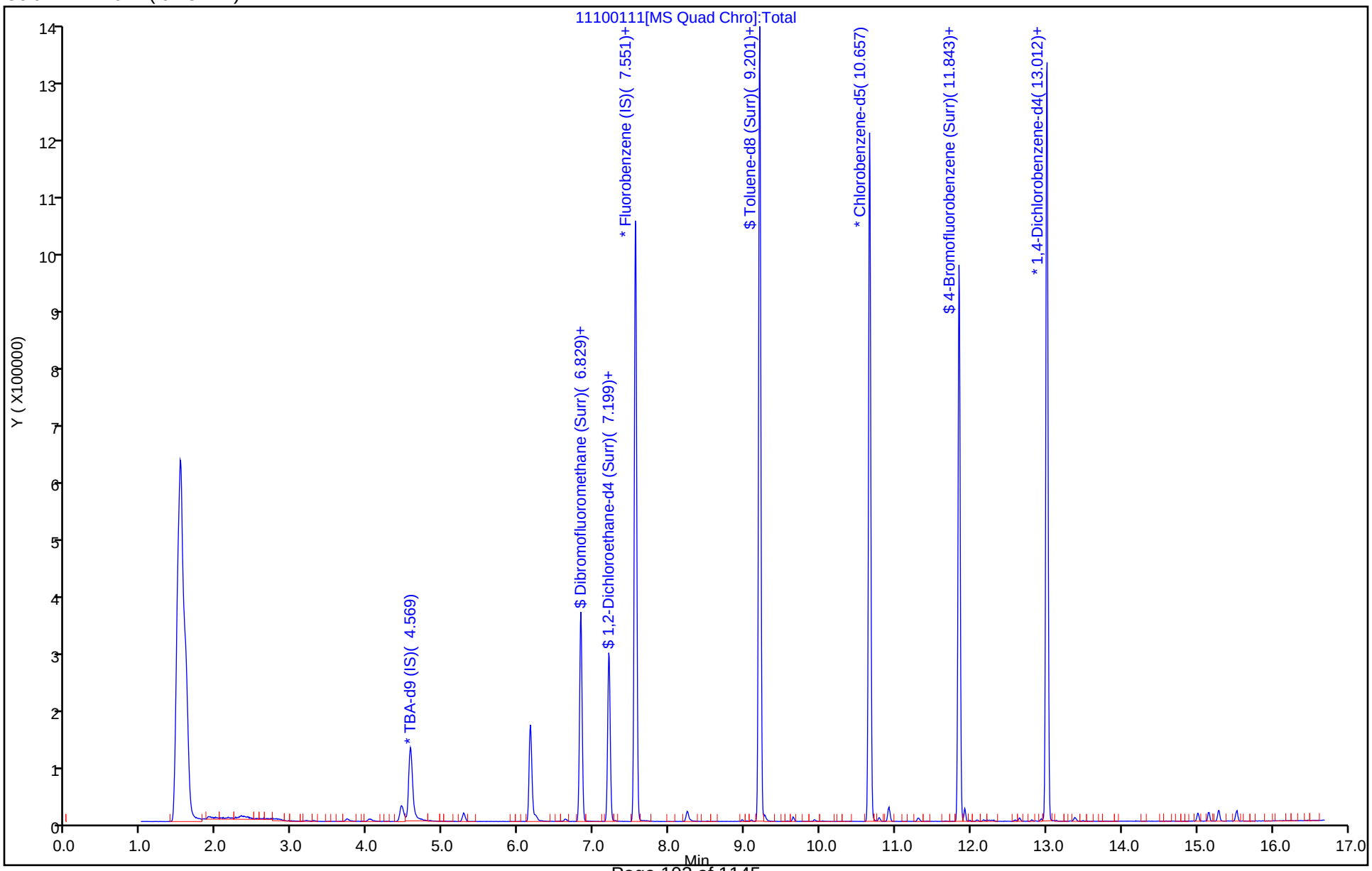
VOA8260INT_00087	Amount Added:	2.00	Units: uL	Run Reagent
VOA8260SURR_00087	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 01-Oct-2018 12:28:47 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP11\20181001-23880.b\11100111.D				
Injection Date:	01-Oct-2018 11:25:23	Instrument ID:	CHHP11	Operator ID:	Patrick Journet
Lims ID:	180-82446-B-7	Lab Sample ID:	180-82446-7	Worklist Smp#:	11
Client ID:	TRIP BLANK				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSVOA_CHHP11	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1 Analy Batch No.: 256523

SDG No.:

Instrument ID: CHHP10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/12/2018 09:19 Calibration End Date: 09/12/2018 11:52 Calibration ID: 38562

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-256523/5	10091205.d
Level 2	IC 180-256523/6	10091206.d
Level 3	IC 180-256523/7	10091207.d
Level 4	ICIS 180-256523/8	10091208.d
Level 5	IC 180-256523/9	10091209.d
Level 6	IC 180-256523/10	10091210.d
Level 7	IC 180-256523/11	10091211.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.6053 0.5980	0.5888 0.6287	0.5692	0.5418	0.4695	Ave		0.5716			0.1000	9.2		20.0			
Chloromethane	0.6590 0.5748	0.6344 0.5734	0.5526	0.5329	0.4758	Ave		0.5718			0.1000	10.7		20.0			
Vinyl chloride	0.5879 0.5982	0.5762 0.6372	0.5592	0.5348	0.4706	Ave		0.5663			0.1000	9.3		20.0			
1,3-Butadiene	0.5647 0.5521	0.5292 0.6138	0.5061	0.4947	0.4375	Ave		0.5283			0.0100	10.7		20.0			
Bromomethane	0.1649 0.1493	0.1637 0.1499	0.1449	0.1421	0.1312	Ave		0.1494			0.0500	8.0		20.0			
Chloroethane	0.1431 0.1195	0.1319 0.1279	0.1190	0.1142	0.1168	Ave		0.1246			0.0500	8.2		20.0			
Dichlorofluoromethane	0.4514 0.4711	0.4361 0.3807	0.3801	0.3663	0.3326	Ave		0.4026			0.0100	12.6		20.0			
Trichlorofluoromethane	0.4396 0.4662	0.4190 0.3675	0.3748	0.3575	0.3189	Ave		0.3919			0.1000	13.1		20.0			
Ethyl ether	0.2398 0.2777	0.2418 +++++	0.2413	0.1980	0.1903	Ave		0.2315			0.0100	14.0		20.0			
1,1-Dichloroethene	0.3006 0.3648	0.3060 0.3920	0.3045	0.3008	0.2656	Ave		0.3192			0.1000	13.6		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.3341 0.3763	0.3260 0.3963	0.3186	0.3176	0.2732	Ave		0.3346			0.1000	12.2		20.0			
Acetone	0.2307 0.1218	0.1466 0.1149	0.1264	0.1196	0.1093	Lin1	2.2970	0.1124			0.0500				0.9960		0.9900
Iodomethane	0.5109 0.5851	0.5074 0.6091	0.4903	0.4867	0.4453	Ave		0.5192			0.0100	11.1		20.0			
Carbon disulfide	1.0636 1.2620	1.0660 1.3541	1.0793	1.0669	0.9380	Ave		1.1185			0.1000	12.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1 Analy Batch No.: 256523

SDG No.:

Instrument ID: CHHP10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/12/2018 09:19 Calibration End Date: 09/12/2018 11:52 Calibration ID: 38562

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Allyl chloride	0.2123 0.2761	0.2270 0.2899	0.2185	0.2267	0.2061	Ave		0.2367			0.0100	13.8		20.0			
Methyl acetate	0.3005 0.2705	0.2693 0.2755	0.2185	0.2662	0.2462	Ave		0.2638			0.1000	9.7		20.0			
Methylene Chloride	0.5466 0.4372	0.4532 0.4505	0.3963	0.3974	0.3614	Ave		0.4347			0.1000	13.7		20.0			
tert-Butyl alcohol	1.4841 2.1138	1.7140 2.0394	1.8864	1.4317	1.9203	Ave		1.7985			0.0100	14.7		20.0			
Acrylonitrile	0.1324 0.1518	0.1270 0.1750	0.1158	0.1388	0.1347	Ave		0.1394			0.0100	13.7		20.0			
trans-1,2-Dichloroethene	0.3828 0.4512	0.3890 0.4752	0.3889	0.3838	0.3516	Ave		0.4032			0.1000	10.8		20.0			
Methyl tert-butyl ether	1.1275 1.3432	1.1012 1.4107	1.0960	1.1818	1.1500	Ave		1.2015			0.1000	10.4		20.0			
Hexane	0.8329 0.7933	0.7616 0.8376	0.7070	0.7027	0.6303	Ave		0.7522			0.0100	10.1		20.0			
1,1-Dichloroethane	0.7374 0.8447	0.7285 0.8794	0.7209	0.7312	0.6664	Ave		0.7584			0.2000	9.9		20.0			
2,2-Dichloropropane	0.0943 0.0947	0.0920 0.0881	0.0892	0.0828	0.0745	Ave		0.0879			0.0100	8.2		20.0			
cis-1,2-Dichloroethene	0.4619 0.5225	0.4570 0.5515	0.4431	0.4498	0.4178	Ave		0.4719			0.1000	10.0		20.0			
2-Butanone (MEK)	0.2212 0.2161	0.1863 0.2281	0.1764	0.2059	0.1761	Ave		0.2014			0.0500	10.8		20.0			
Chlorobromomethane	0.2021 0.2363	0.2018 0.2521	0.1950	0.2037	0.1943	Ave		0.2122			0.0100	10.7		20.0			
Tetrahydrofuran	0.1214 0.1427	0.1120 0.1599	0.1059	0.1285	0.1283	Ave		0.1284			0.0100	14.3		20.0			
Chloroform	0.7248 0.8279	0.7231 0.8755	0.7126	0.7189	0.6564	Ave		0.7485			0.2000	10.1		20.0			
1,1,1-Trichloroethane	0.5966 0.6866	0.5821 0.7194	0.5851	0.5802	0.5120	Ave		0.6089			0.1000	11.6		20.0			
Cyclohexane	0.7637 0.9213	0.7808 0.9689	0.7874	0.7898	0.6909	Ave		0.8147			0.1000	11.8		20.0			
Carbon tetrachloride	0.5594 0.6791	0.5685 0.7382	0.5666	0.5672	0.4967	Ave		0.5966			0.1000	13.8		20.0			
1,1-Dichloropropene	0.6020 0.7285	0.6127 0.7865	0.6120	0.6229	0.5502	Ave		0.6450			0.0100	12.7		20.0			
Benzene	1.7746 2.1145	1.7943 2.2455	1.8077	1.8430	1.6686	Ave		1.8926			0.5000	10.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1 Analy Batch No.: 256523

SDG No.:

Instrument ID: CHHP10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/12/2018 09:19 Calibration End Date: 09/12/2018 11:52 Calibration ID: 38562

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Isobutyl alcohol	0.0125 0.0175	0.0136 0.0174	0.0138	0.0154	0.0155	Ave		0.0151			0.0100	12.8		20.0			
1,2-Dichloroethane	0.5537 0.6324	0.5472 0.6474	0.5254	0.5775	0.5450	Ave		0.5755			0.1000	8.1		20.0			
n-Heptane	0.8126 0.8980	0.8004 0.9409	0.8073	0.7995	0.7162	Ave		0.8250			0.0100	8.9		20.0			
Trichloroethene	0.4579 0.5678	0.4630 0.6097	0.4732	0.4677	0.4192	Ave		0.4941			0.2000	13.8		20.0			
Methylcyclohexane	0.8642 1.0606	0.8937 1.1219	0.9212	0.9146	0.7970	Ave		0.9390			0.1000	12.1		20.0			
1,2-Dichloropropane	0.4287 0.5270	0.4414 0.5518	0.4352	0.4588	0.4296	Ave		0.4675			0.1000	10.8		20.0			
Dibromomethane	0.2348 0.2834	0.2259 0.3011	0.2211	0.2451	0.2365	Ave		0.2497			0.0100	12.2		20.0			
1,4-Dioxane	0.0019 +++++	0.0025 +++++	0.0030	0.0031	0.0031	Lin	-0.679	0.0032		*	0.0100				1.0000		0.9900
Dichlorobromomethane	0.5325 0.6870	0.5524 0.7253	0.5439	0.5773	0.5381	Ave		0.5938			0.2000	13.3		20.0			
cis-1,3-Dichloropropene	0.5936 0.8386	0.6257 0.8750	0.6462	0.7005	0.6700	Ave		0.7071			0.2000	15.3		20.0			
4-Methyl-2-pentanone (MIBK)	1.6639 1.9992	1.6003 2.1845	1.5655	1.8028	1.7868	Ave		1.8004			0.1000	12.4		20.0			
Toluene	8.1797 9.6368	8.2395 10.302	8.7541	8.4675	7.5506	Ave		8.7329			0.4000	10.8		20.0			
trans-1,3-Dichloropropene	2.2073 3.1061	2.3215 3.2576	2.5275	2.6035	2.5680	Ave		2.6559			0.1000	14.6		20.0			
Ethyl methacrylate	1.7629 2.6931	1.9410 2.9041	2.1420	2.3494	2.3206	Ave		2.3019			0.0100	17.4		20.0			
1,1,2-Trichloroethane	1.4719 1.7333	1.4715 1.8457	1.4459	1.5225	1.4689	Ave		1.5657			0.1000	10.1		20.0			
Tetrachloroethene	1.6543 1.9203	1.5984 2.1366	1.6100	1.5410	1.3848	Ave		1.6922			0.2000	14.9		20.0			
1,3-Dichloropropane	2.5548 3.0681	2.5938 3.1818	2.5857	2.7204	2.5887	Ave		2.7562			0.0100	9.4		20.0			
2-Hexanone	0.9252 1.4082	0.9697 1.5851	1.1255	1.2707	1.2648	Ave		1.2213			0.1000	19.3		20.0			
Chlorodibromomethane	1.5645 2.0338	1.6049 2.2038	1.6283	1.7202	1.6585	Ave		1.7734			0.1000	13.9		20.0			
1,2-Dibromoethane	1.3067 1.6643	1.3368 1.7979	1.3423	1.4544	1.4300	Ave		1.4761			0.1000	12.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1 Analy Batch No.: 256523

SDG No.:

Instrument ID: CHHP10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/12/2018 09:19 Calibration End Date: 09/12/2018 11:52 Calibration ID: 38562

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chlorobenzene	5.6970 6.3491	5.6809 6.5241	5.7767	5.5871	5.1287	Ave		5.8205			0.5000	8.1		20.0			
1,1,1,2-Tetrachloroethane	1.8393 2.3152	1.8894 2.3808	1.9908	1.9706	1.8464	Ave		2.0332			0.0100	11.0		20.0			
Ethylbenzene	2.8865 3.7118	3.0045 4.0416	3.1886	3.1121	2.8182	Ave		3.2519			0.1000	14.0		20.0			
m-Xylene & p-Xylene	3.6337 4.3945	3.6187 4.5575	3.8582	3.8120	3.4143	Ave		3.8984			0.1000	10.8		20.0			
o-Xylene	3.3894 4.3562	3.6644 4.4904	3.8492	3.7712	3.4237	Ave		3.8492			0.3000	11.1		20.0			
Styrene	5.8362 7.5644	6.0749 7.9129	6.4773	6.4586	5.9162	Ave		6.6058			0.3000	12.4		20.0			
Bromoform	0.9704 1.3510	0.9465 1.4205	1.0071	1.1265	1.1111	Ave		1.1333			0.1000	16.4		20.0			
Isopropylbenzene	9.0307 11.544	9.6234 11.499	10.185	9.9890	8.9701	Ave		10.120			0.1000	10.4		20.0			
Bromobenzene	1.3184 1.4955	1.3366 1.7267	1.2781	1.3250	1.2485	Ave		1.3898			0.0100	12.1		20.0			
1,1,2,2-Tetrachloroethane	2.1553 2.4407	2.1047 2.5184	2.0185	2.2658	2.2315	Ave		2.2478			0.3000	8.0		20.0			
trans-1,4-Dichloro-2-butene	0.2785 0.3705	0.2882 +++++	0.2827	0.3377	0.3311	Ave		0.3148			0.0100	11.8		20.0			
1,2,3-Trichloropropane	0.3453 0.3811	0.3453 0.4442	0.3160	0.3642	0.3525	Ave		0.3641			0.0100	11.1		20.0			
N-Propylbenzene	1.5892 1.8029	1.6115 1.9972	1.6101	1.5844	1.4512	Ave		1.6638			0.0100	10.8		20.0			
2-Chlorotoluene	1.3348 1.5080	1.3834 1.6430	1.3621	1.3489	1.2245	Ave		1.4007			0.0100	9.7		20.0			
1,3,5-Trimethylbenzene	4.5911 5.6066	4.8073 5.9833	4.8570	4.8514	4.3781	Ave		5.0107			0.0100	11.4		20.0			
4-Chlorotoluene	1.4285 1.6015	1.4282 1.7557	1.4509	1.4169	1.3028	Ave		1.4835			0.0100	10.0		20.0			
tert-Butylbenzene	3.9022 4.8278	4.1527 5.0555	4.2719	4.2057	3.8328	Ave		4.3212			0.0100	10.6		20.0			
1,2,4-Trimethylbenzene	4.7059 5.5890	4.8859 5.8282	5.0155	4.9329	4.5128	Ave		5.0672			0.0100	9.3		20.0			
sec-Butylbenzene	6.1074 7.2512	6.4489 7.5088	6.5301	6.4023	5.7882	Ave		6.5767			0.0100	9.2		20.0			
1,3-Dichlorobenzene	2.5702 3.0099	2.5881 3.2104	2.5536	2.6077	2.4223	Ave		2.7089			0.6000	10.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1 Analy Batch No.: 256523

SDG No.:

Instrument ID: CHHP10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/12/2018 09:19 Calibration End Date: 09/12/2018 11:52 Calibration ID: 38562

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
4-Isopropyltoluene	5.3613 6.4272	5.5923 6.4879	5.7339	5.5565	5.0925	Ave		5.7502			0.0100	9.1		20.0			
1,4-Dichlorobenzene	2.8862 3.1198	2.7885 3.2646	2.7724	2.7684	2.5618	Ave		2.8802			0.5000	8.3		20.0			
n-Butylbenzene	4.8356 5.9168	5.0653 5.7396	5.1708	5.1246	4.5533	Ave		5.2009			0.0100	9.2		20.0			
1,2-Dichlorobenzene	2.5908 2.8457	2.5395 2.8582	2.4813	2.5274	2.3131	Ave		2.5937			0.4000	7.6		20.0			
1,2-Dibromo-3-Chloropropane	0.2189 0.2812	0.2081 0.3090	0.2014	0.2459	0.2462	Ave		0.2444			0.0500	16.2		20.0			
1,2,4-Trichlorobenzene	1.7592 2.0200	1.7469 1.8657	1.7394	1.7612	1.6326	Ave		1.7893			0.2000	6.8		20.0			
Hexachlorobutadiene	1.0709 1.2077	1.0503 1.0895	1.0292	1.0265	0.9007	Ave		1.0535			0.0100	8.7		20.0			
Naphthalene	4.0125 4.4889	3.9286 4.3269	3.7244	4.1845	4.0289	Ave		4.0992			0.0100	6.2		20.0			
1,2,3-Trichlorobenzene	1.6662 1.8562	1.5996 1.6703	1.5536	1.6365	1.5331	Ave		1.6451			0.0100	6.5		20.0			
Dibromofluoromethane (Surr)	0.3510 0.4290	0.3644 0.4592	0.3479	0.3800	0.3412	Ave		0.3818				11.8		20.0			
1,2-Dichloroethane-d4 (Surr)	0.4587 0.4967	0.4321 0.5326	0.4056	0.4682	0.4351	Ave		0.4613				9.3		20.0			
Toluene-d8 (Surr)	6.4875 7.6066	6.6619 8.3180	6.8110	7.0620	6.1429	Ave		7.0128				10.5		20.0			
4-Bromofluorobenzene (Surr)	2.2004 2.7744	2.3340 2.7884	2.3438	2.5786	2.3356	Ave		2.4793				9.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1 Analy Batch No.: 256523

SDG No.:

Instrument ID: CHHP10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/12/2018 09:19 Calibration End Date: 09/12/2018 11:52 Calibration ID: 38562

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-256523/5	10091205.d
Level 2	IC 180-256523/6	10091206.d
Level 3	IC 180-256523/7	10091207.d
Level 4	ICIS 180-256523/8	10091208.d
Level 5	IC 180-256523/9	10091209.d
Level 6	IC 180-256523/10	10091210.d
Level 7	IC 180-256523/11	10091211.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	40703 933398	76289 1999149	195781	269079	327686	25.0 625	50.0 1250	125	200	250
Chloromethane	FB	Ave	44310 897206	82191 1823408	190078	264671	332142	25.0 625	50.0 1250	125	200	250
Vinyl chloride	FB	Ave	39533 933700	74655 2026453	192331	265627	328511	25.0 625	50.0 1250	125	200	250
1,3-Butadiene	FB	Ave	37968 861753	68565 1951793	174075	245689	305355	25.0 625	50.0 1250	125	200	250
Bromomethane	FB	Ave	11089 233029	21215 476655	49841	70571	91573	25.0 625	50.0 1250	125	200	250
Chloroethane	FB	Ave	9620 186512	17084 406833	40935	56699	81515	25.0 625	50.0 1250	125	200	250
Dichlorofluoromethane	FB	Ave	30353 735285	56506 1210488	130758	181948	232164	25.0 625	50.0 1250	125	200	250
Trichlorofluoromethane	FB	Ave	29560 727721	54285 1168618	128912	177542	222622	25.0 625	50.0 1250	125	200	250
Ethyl ether	FB	Ave	16122 433529	31334 +++++	82995	98325	132859	25.0 625	50.0 +++++	125	200	250
1,1-Dichloroethene	FB	Ave	20213 569465	39649 1246626	104753	149409	185394	25.0 625	50.0 1250	125	200	250
1,1,2-Trichloro-1,2,2-trifluoroetha ne	FB	Ave	22464 587301	42241 1260192	109576	157758	190713	25.0 625	50.0 1250	125	200	250
Acetone	FB	Lin1	15510 190111	18994 365455	43461	59416	76271	25.0 625	50.0 1250	125	200	250
Iodomethane	FB	Ave	34352 913271	65733 1936888	168636	241731	310844	25.0 625	50.0 1250	125	200	250
Carbon disulfide	FB	Ave	71514 1969790	138108 4306135	371238	529884	654710	25.0 625	50.0 1250	125	200	250
Allyl chloride	FB	Ave	14274 430998	29409 921843	75154	112600	143844	25.0 625	50.0 1250	125	200	250

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1 Analy Batch No.: 256523

SDG No.:

Instrument ID: CHHP10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/12/2018 09:19 Calibration End Date: 09/12/2018 11:52 Calibration ID: 38562

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Methyl acetate	FB	Ave	40410 844279	69785 1752306	150280	264394	343636	50.0 1250	100 2500	250	400	500
Methylene Chloride	FB	Ave	36755 682487	58716 1432713	136316	197354	252235	25.0 625	50.0 1250	125	200	250
tert-Butyl alcohol	TBAd 9	Ave	23166 880689	51520 1898897	140159	180934	347863	250 6250	500 12500	1250	2000	2500
Acrylonitrile	FB	Ave	89051 2369016	164555 5564639	398296	689388	939905	250 6250	500 12500	1250	2000	2500
trans-1,2-Dichloroethene	FB	Ave	25738 704303	50393 1511268	133779	190630	245420	25.0 625	50.0 1250	125	200	250
Methyl tert-butyl ether	FB	Ave	75814 2096604	142668 4486084	376979	586969	802728	25.0 625	50.0 1250	125	200	250
Hexane	FB	Ave	56007 1238294	98669 2663580	243194	349027	439973	25.0 625	50.0 1250	125	200	250
1,1-Dichloroethane	FB	Ave	49582 1318491	94389 2796407	247968	363185	465135	25.0 625	50.0 1250	125	200	250
2,2-Dichloropropane	FB	Ave	6344 147805	11917 280008	30682	41107	51977	25.0 625	50.0 1250	125	200	250
cis-1,2-Dichloroethene	FB	Ave	31061 815604	59203 1753797	152419	223413	291597	25.0 625	50.0 1250	125	200	250
2-Butanone (MEK)	FB	Ave	14872 337377	24134 725202	60693	102254	122943	25.0 625	50.0 1250	125	200	250
Chlorobromomethane	FB	Ave	13589 368911	26149 801620	67070	101157	135618	25.0 625	50.0 1250	125	200	250
Tetrahydrofuran	FB	Ave	16330 445530	29033 1017280	72882	127672	179176	50.0 1250	100 2500	250	400	500
Chloroform	FB	Ave	48738 1292194	93680 2784157	245100	357080	458182	25.0 625	50.0 1250	125	200	250
1,1,1-Trichloroethane	FB	Ave	40116 1071745	75423 2287820	201252	288174	357408	25.0 625	50.0 1250	125	200	250
Cyclohexane	FB	Ave	51352 1438058	101162 3081043	270823	392294	482262	25.0 625	50.0 1250	125	200	250
Carbon tetrachloride	FB	Ave	37617 1059938	73662 2347612	194908	281720	346734	25.0 625	50.0 1250	125	200	250
1,1-Dichloropropene	FB	Ave	40478 1137072	79379 2500959	210509	309378	384011	25.0 625	50.0 1250	125	200	250
Benzene	FB	Ave	119321 3300387	232467 7140819	621779	915361	1164717	25.0 625	50.0 1250	125	200	250
Isobutyl alcohol	FB	Ave	21039 682990	43905 1385352	118354	190792	270578	625 15625	1250 31250	3125	5000	6250
1,2-Dichloroethane	FB	Ave	37229 987049	70890 2058729	180725	286827	380411	25.0 625	50.0 1250	125	200	250

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1 Analy Batch No.: 256523

SDG No.:

Instrument ID: CHHP10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/12/2018 09:19 Calibration End Date: 09/12/2018 11:52 Calibration ID: 38562

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
n-Heptane	FB	Ave	54637 1401683	103703 2992031	277691	397097	499933	25.0 625	50.0 1250	125	200	250
Trichloroethene	FB	Ave	30789 886283	59992 1938712	162755	232317	292582	25.0 625	50.0 1250	125	200	250
Methylcyclohexane	FB	Ave	58106 1655528	115789 3567709	316849	454231	556328	25.0 625	50.0 1250	125	200	250
1,2-Dichloropropane	FB	Ave	28824 822559	57185 1754787	149691	227869	299891	25.0 625	50.0 1250	125	200	250
Dibromomethane	FB	Ave	15787 442353	29273 957615	76042	121745	165109	25.0 625	50.0 1250	125	200	250
1,4-Dioxane	FB	Lin	2611 +++++	6551 +++++	20307	30491	43244	500 +++++	1000 +++++	2500	4000	5000
Dichlorobromomethane	FB	Ave	35808 1072377	71574 2306591	187067	286730	375624	25.0 625	50.0 1250	125	200	250
cis-1,3-Dichloropropene	FB	Ave	39913 1308957	81068 2782362	222258	347908	467638	25.0 625	50.0 1250	125	200	250
4-Methyl-2-pentanone (MIBK)	CBNZ d5	Ave	25854 786822	48474 1748175	125510	220752	310650	25.0 625	50.0 1250	125	200	250
Toluene	CBNZ d5	Ave	127098 3792828	249577 8244374	701850	1036822	1312747	25.0 625	50.0 1250	125	200	250
trans-1,3-Dichloropropene	CBNZ d5	Ave	34297 1222473	70320 2606954	202643	318797	446478	25.0 625	50.0 1250	125	200	250
Ethyl methacrylate	CBNZ d5	Ave	27392 1059924	58794 2324041	171733	287681	403458	25.0 625	50.0 1250	125	200	250
1,1,2-Trichloroethane	CBNZ d5	Ave	22871 682174	44572 1477076	115920	186423	255387	25.0 625	50.0 1250	125	200	250
Tetrachloroethene	CBNZ d5	Ave	25705 755795	48416 1709891	129081	188693	240770	25.0 625	50.0 1250	125	200	250
1,3-Dichloropropane	CBNZ d5	Ave	39697 1207537	78567 2546260	207307	333104	450071	25.0 625	50.0 1250	125	200	250
2-Hexanone	CBNZ d5	Ave	14376 554246	29373 1268505	90239	155598	219901	25.0 625	50.0 1250	125	200	250
Chlorodibromomethane	CBNZ d5	Ave	24310 800450	48614 1763654	130546	210636	288355	25.0 625	50.0 1250	125	200	250
1,2-Dibromoethane	CBNZ d5	Ave	20304 655027	40493 1438820	107616	178085	248614	25.0 625	50.0 1250	125	200	250
Chlorobenzene	CBNZ d5	Ave	88521 2498869	172075 5221070	463145	684123	891674	25.0 625	50.0 1250	125	200	250
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	28580 911210	57229 1905260	159611	241291	321016	25.0 625	50.0 1250	125	200	250
Ethylbenzene	CBNZ d5	Ave	44852 1460879	91006 3234350	255640	381073	489982	25.0 625	50.0 1250	125	200	250

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1 Analy Batch No.: 256523

SDG No.:

Instrument ID: CHHP10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/12/2018 09:19 Calibration End Date: 09/12/2018 11:52 Calibration ID: 38562

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
m-Xylene & p-Xylene	CBNZ d5	Ave	56462 1729560	109611 3647256	309331	466773	593617	25.0 625	50.0 1250	125	200	250
o-Xylene	CBNZ d5	Ave	52666 1714495	110996 3593517	308606	461772	595248	25.0 625	50.0 1250	125	200	250
Styrene	CBNZ d5	Ave	90684 2977175	184009 6332429	519315	790842	1028598	25.0 625	50.0 1250	125	200	250
Bromoform	CBNZ d5	Ave	15078 531738	28670 1136766	80744	137941	193176	25.0 625	50.0 1250	125	200	250
Isopropylbenzene	CBNZ d5	Ave	140322 4543507	291496 9202093	816598	1223121	1559550	25.0 625	50.0 1250	125	200	250
Bromobenzene	DCBd 4	Ave	35046 1063493	69703 2217099	183875	290340	386934	25.0 625	50.0 1250	125	200	250
1,1,2,2-Tetrachloroethane	CBNZ d5	Ave	33490 960607	63752 2015365	161835	277443	387966	25.0 625	50.0 1250	125	200	250
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	7403 263484	15028 +++++	40673	73991	102623	25.0 625	50.0 +++++	125	200	250
1,2,3-Trichloropropane	DCBd 4	Ave	9179 271035	18007 570378	45464	79801	109254	25.0 625	50.0 1250	125	200	250
N-Propylbenzene	DCBd 4	Ave	42247 1282164	84044 2564467	231631	347181	449739	25.0 625	50.0 1250	125	200	250
2-Chlorotoluene	DCBd 4	Ave	35484 1072393	72145 2109626	195951	295567	379494	25.0 625	50.0 1250	125	200	250
1,3,5-Trimethylbenzene	DCBd 4	Ave	122046 3987159	250708 7682731	698733	1063056	1356863	25.0 625	50.0 1250	125	200	250
4-Chlorotoluene	DCBd 4	Ave	37975 1138899	74484 2254380	208724	310473	403764	25.0 625	50.0 1250	125	200	250
tert-Butylbenzene	DCBd 4	Ave	103732 3433294	216570 6491389	614567	921567	1187864	25.0 625	50.0 1250	125	200	250
1,2,4-Trimethylbenzene	DCBd 4	Ave	125096 3974588	254807 7483629	721539	1080896	1398592	25.0 625	50.0 1250	125	200	250
sec-Butylbenzene	DCBd 4	Ave	162354 5156700	336318 9641519	939428	1402875	1793855	25.0 625	50.0 1250	125	200	250
1,3-Dichlorobenzene	DCBd 4	Ave	68324 2140481	134971 4122211	367364	571401	750720	25.0 625	50.0 1250	125	200	250
4-Isopropyltoluene	DCBd 4	Ave	142519 4570695	291648 8330682	824891	1217544	1578259	25.0 625	50.0 1250	125	200	250
1,4-Dichlorobenzene	DCBd 4	Ave	76725 2218678	145425 4191809	398835	606618	793938	25.0 625	50.0 1250	125	200	250
n-Butylbenzene	DCBd 4	Ave	128544 4207764	264160 7369849	743880	1122903	1411160	25.0 625	50.0 1250	125	200	250
1,2-Dichlorobenzene	DCBd 4	Ave	68871 2023704	132438 3669984	356970	553816	716880	25.0 625	50.0 1250	125	200	250

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1 Analy Batch No.: 256523

SDG No.:

Instrument ID: CHHP10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/12/2018 09:19 Calibration End Date: 09/12/2018 11:52 Calibration ID: 38562

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	5820 199948	10852 396812	28975	53877	76310	25.0 625	50.0 1250	125	200	250
1,2,4-Trichlorobenzene	DCBd 4	Ave	46765 1436552	91105 2395553	250231	385921	505983	25.0 625	50.0 1250	125	200	250
Hexachlorobutadiene	DCBd 4	Ave	28469 858833	54773 1398942	148060	224929	279148	25.0 625	50.0 1250	125	200	250
Naphthalene	DCBd 4	Ave	106663 3192300	204881 5555911	535798	916911	1248630	25.0 625	50.0 1250	125	200	250
1,2,3-Trichlorobenzene	DCBd 4	Ave	44293 1320002	83423 2144656	223503	358595	475136	25.0 625	50.0 1250	125	200	250
Dibromofluoromethane (Surr)	FB	Ave	23600 669628	47212 1460185	119674	188754	238140	25.0 625	50.0 1250	125	200	250
1,2-Dichloroethane-d4 (Surr)	FB	Ave	30841 775238	55978 1693822	139513	232558	303694	25.0 625	50.0 1250	125	200	250
Toluene-d8 (Surr)	CBNZ d5	Ave	100804 2993767	201790 6656628	546068	864717	1068015	25.0 625	50.0 1250	125	200	250
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	34190 1091930	70697 2231445	187913	315745	406074	25.0 625	50.0 1250	125	200	250

Curve Type Legend:
Ave = Average ISTD
Lin = Linear ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP10\20180912-23596.b\10091205.d
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 12-Sep-2018 09:19:30 ALS Bottle#: 1 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 180-0023596-005
Operator ID: Patrick Journet Instrument ID: CHHP10
Sublist: chrom-MSVOA_CHHP10*sub3

Method: \\ChromNA\Pittsburgh\ChromData\CHHP10\20180912-23596.b\MSVOA_CHHP10.m
Limit Group: VOA 8260C ICAL
Last Update: 13-Sep-2018 17:50:19 Calib Date: 12-Sep-2018 11:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP10\20180912-23596.b\10091211.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: journetp Date: 13-Sep-2018 16:29:02

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.034	4.046	-0.012	98	312198	5000.0	5000.0	
* 2 Fluorobenzene (IS)	96	7.022	7.016	0.006	98	672395	250.0	250.0	
* 3 Chlorobenzene-d5	119	10.139	10.139	0.000	85	155383	250.0	250.0	
* 4 1,4-Dichlorobenzene-d4	152	12.480	12.486	-0.006	93	265830	250.0	250.0	
$ 5 Dibromofluoromethane (Surr	113	6.287	6.293	-0.006	93	23600	25.0	23.0	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.663	6.663	0.000	0	30841	25.0	24.9	
$ 7 Toluene-d8 (Surr)	98	8.681	8.681	0.000	93	100804	25.0	23.1	
$ 8 4-Bromofluorobenzene (Surr	95	11.327	11.328	-0.001	89	34190	25.0	22.2	
10 Dichlorodifluoromethane	85	1.499	1.511	-0.011	99	40703	25.0	26.5	
11 Chloromethane	50	1.652	1.658	-0.006	99	44310	25.0	28.8	
12 Vinyl chloride	62	1.781	1.787	-0.006	98	39533	25.0	26.0	
13 Butadiene	39	1.805	1.810	-0.005	95	37968	25.0	26.7	
14 Bromomethane	94	2.075	2.081	-0.006	92	11089	25.0	27.6	
15 Chloroethane	64	2.205	2.205	-0.001	92	9620	25.0	28.7	
17 Dichlorofluoromethane	67	2.463	2.457	0.006	90	30353	25.0	28.0	
16 Trichlorofluoromethane	101	2.475	2.469	0.006	91	29560	25.0	28.0	
18 Ethyl ether	59	2.816	2.822	-0.006	92	16122	25.0	25.9	
20 1,1-Dichloroethene	96	3.069	3.057	0.012	98	20213	25.0	23.5	
21 1,1,2-Trichloro-1,2,2-trif	101	3.134	3.140	-0.006	70	22464	25.0	25.0	
22 Acetone	43	3.199	3.199	0.000	63	15510	25.0	30.9	
23 Iodomethane	142	3.246	3.234	0.012	92	34352	25.0	24.6	
24 Carbon disulfide	76	3.322	3.316	0.006	96	71514	25.0	23.8	
26 3-Chloro-1-propene	76	3.587	3.593	-0.006	88	14274	25.0	22.4	
28 Methyl acetate	43	3.634	3.646	-0.012	94	40410	50.0	57.0	
29 Methylene Chloride	84	3.804	3.804	0.000	100	36755	25.0	31.4	
32 2-Methyl-2-propanol	59	4.151	4.175	-0.024	94	23166	250.0	206.3	
31 Acrylonitrile	53	4.216	4.222	-0.006	95	89051	250.0	237.6	
30 trans-1,2-Dichloroethene	96	4.222	4.228	-0.006	93	25738	25.0	23.7	
33 Methyl tert-butyl ether	73	4.275	4.269	0.006	93	75814	25.0	23.5	
34 Hexane	57	4.669	4.657	0.012	99	56007	25.0	27.7	
36 1,1-Dichloroethane	63	4.887	4.887	0.000	99	49582	25.0	24.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
42 2,2-Dichloropropane	97	5.657	5.651	0.006	100	6344	25.0	26.8	a
41 cis-1,2-Dichloroethene	96	5.663	5.657	0.006	81	31061	25.0	24.5	
43 2-Butanone (MEK)	43	5.693	5.698	-0.006	99	14872	25.0	27.4	
46 Chlorobromomethane	128	5.951	5.951	0.000	85	13589	25.0	23.8	
48 Tetrahydrofuran	42	5.987	5.993	-0.006	84	16330	50.0	47.3	
49 Chloroform	83	6.104	6.104	0.000	98	48738	25.0	24.2	
50 1,1,1-Trichloroethane	97	6.251	6.257	-0.006	93	40116	25.0	24.5	
52 Cyclohexane	56	6.328	6.322	0.006	96	51352	25.0	23.4	
53 Carbon tetrachloride	117	6.434	6.428	0.006	88	37617	25.0	23.4	
54 1,1-Dichloropropene	75	6.451	6.445	0.006	94	40478	25.0	23.3	
55 Benzene	78	6.663	6.663	0.000	88	119321	25.0	23.4	
51 Isobutyl alcohol	41	6.710	6.710	0.000	90	21039	625.0	518.4	
56 1,2-Dichloroethane	62	6.751	6.751	0.000	99	37229	25.0	24.1	
59 n-Heptane	43	7.039	7.040	-0.001	82	54637	25.0	24.6	
60 Trichloroethene	130	7.416	7.410	0.006	93	30789	25.0	23.2	
63 Methylcyclohexane	83	7.639	7.640	-0.001	94	58106	25.0	23.0	
64 1,2-Dichloropropane	63	7.687	7.687	-0.001	93	28824	25.0	22.9	
65 Dibromomethane	93	7.781	7.775	0.006	88	15787	25.0	23.5	
67 1,4-Dioxane	88	7.786	7.792	-0.006	30	2611	500.0	510.3	
68 Dichlorobromomethane	83	7.975	7.975	0.000	99	35808	25.0	22.4	
71 cis-1,3-Dichloropropene	75	8.428	8.428	0.000	98	39913	25.0	21.0	
72 4-Methyl-2-pentanone (MIBK	43	8.592	8.592	0.000	98	25854	25.0	23.1	
73 Toluene	91	8.751	8.751	0.000	94	127098	25.0	23.4	
74 trans-1,3-Dichloropropene	75	9.016	9.010	0.006	95	34297	25.0	20.8	
75 Ethyl methacrylate	69	9.081	9.081	0.000	94	27392	25.0	19.1	
76 1,1,2-Trichloroethane	97	9.204	9.204	0.000	98	22871	25.0	23.5	
77 Tetrachloroethene	164	9.269	9.263	0.006	96	25705	25.0	24.4	
78 1,3-Dichloropropane	76	9.363	9.357	0.006	95	39697	25.0	23.2	
79 2-Hexanone	43	9.439	9.434	0.005	96	14376	25.0	18.9	
81 Chlorodibromomethane	129	9.569	9.569	0.000	97	24310	25.0	22.1	
82 Ethylene Dibromide	107	9.680	9.681	-0.001	99	20304	25.0	22.1	
83 Chlorobenzene	112	10.169	10.169	0.000	94	88521	25.0	24.5	
84 1,1,1,2-Tetrachloroethane	131	10.263	10.263	0.000	95	28580	25.0	22.6	
85 Ethylbenzene	106	10.275	10.275	0.000	97	44852	25.0	22.2	
86 m-Xylene & p-Xylene	106	10.404	10.404	0.000	98	56462	25.0	23.3	
88 o-Xylene	106	10.786	10.786	0.000	96	52666	25.0	22.0	
89 Styrene	104	10.804	10.810	-0.006	94	90684	25.0	22.1	
90 Bromoform	173	10.986	10.986	0.000	99	15078	25.0	21.4	
91 Isopropylbenzene	105	11.151	11.151	0.000	97	140322	25.0	22.3	
94 Bromobenzene	156	11.463	11.463	0.000	98	35046	25.0	23.7	
93 1,1,2,2-Tetrachloroethane	83	11.469	11.475	-0.006	97	33490	25.0	24.0	
96 trans-1,4-Dichloro-2-buten	53	11.516	11.510	0.006	86	7403	25.0	22.1	
95 1,2,3-Trichloropropane	110	11.527	11.522	0.005	96	9179	25.0	23.7	
97 N-Propylbenzene	120	11.569	11.569	0.000	97	42247	25.0	23.9	
98 2-Chlorotoluene	126	11.651	11.657	-0.006	99	35484	25.0	23.8	
99 1,3,5-Trimethylbenzene	105	11.757	11.757	0.000	98	122046	25.0	22.9	
100 4-Chlorotoluene	126	11.780	11.780	0.000	97	37975	25.0	24.1	
101 tert-Butylbenzene	119	12.063	12.063	0.000	97	103732	25.0	22.6	
103 1,2,4-Trimethylbenzene	105	12.127	12.127	0.000	98	125096	25.0	23.2	
104 sec-Butylbenzene	105	12.286	12.286	0.000	98	162354	25.0	23.2	
105 1,3-Dichlorobenzene	146	12.404	12.404	0.000	97	68324	25.0	23.7	
106 4-Isopropyltoluene	119	12.445	12.445	0.000	97	142519	25.0	23.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
107 1,4-Dichlorobenzene	146	12.504	12.510	-0.006	92	76725	25.0	25.1	
110 n-Butylbenzene	91	12.857	12.851	0.006	94	128544	25.0	23.2	
111 1,2-Dichlorobenzene	146	12.863	12.863	0.000	89	68871	25.0	25.0	
112 1,2-Dibromo-3-Chloropropan	157	13.651	13.651	0.000	90	5820	25.0	22.4	
114 1,2,4-Trichlorobenzene	180	14.468	14.468	0.000	96	46765	25.0	24.6	
115 Hexachlorobutadiene	225	14.615	14.616	-0.001	96	28469	25.0	25.4	
116 Naphthalene	128	14.733	14.733	0.000	98	106663	25.0	24.5	
117 1,2,3-Trichlorobenzene	180	14.957	14.951	0.006	96	44293	25.0	25.3	
S 129 Xylenes, Total	106				0		50.0	45.3	
S 130 1,2-Dichloroethene, Total	96				0		50.0	48.2	
S 145 Total BTEX	1				0			114.4	
S 131 1,3-Dichloropropene, Total	1				0		50.0	41.8	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

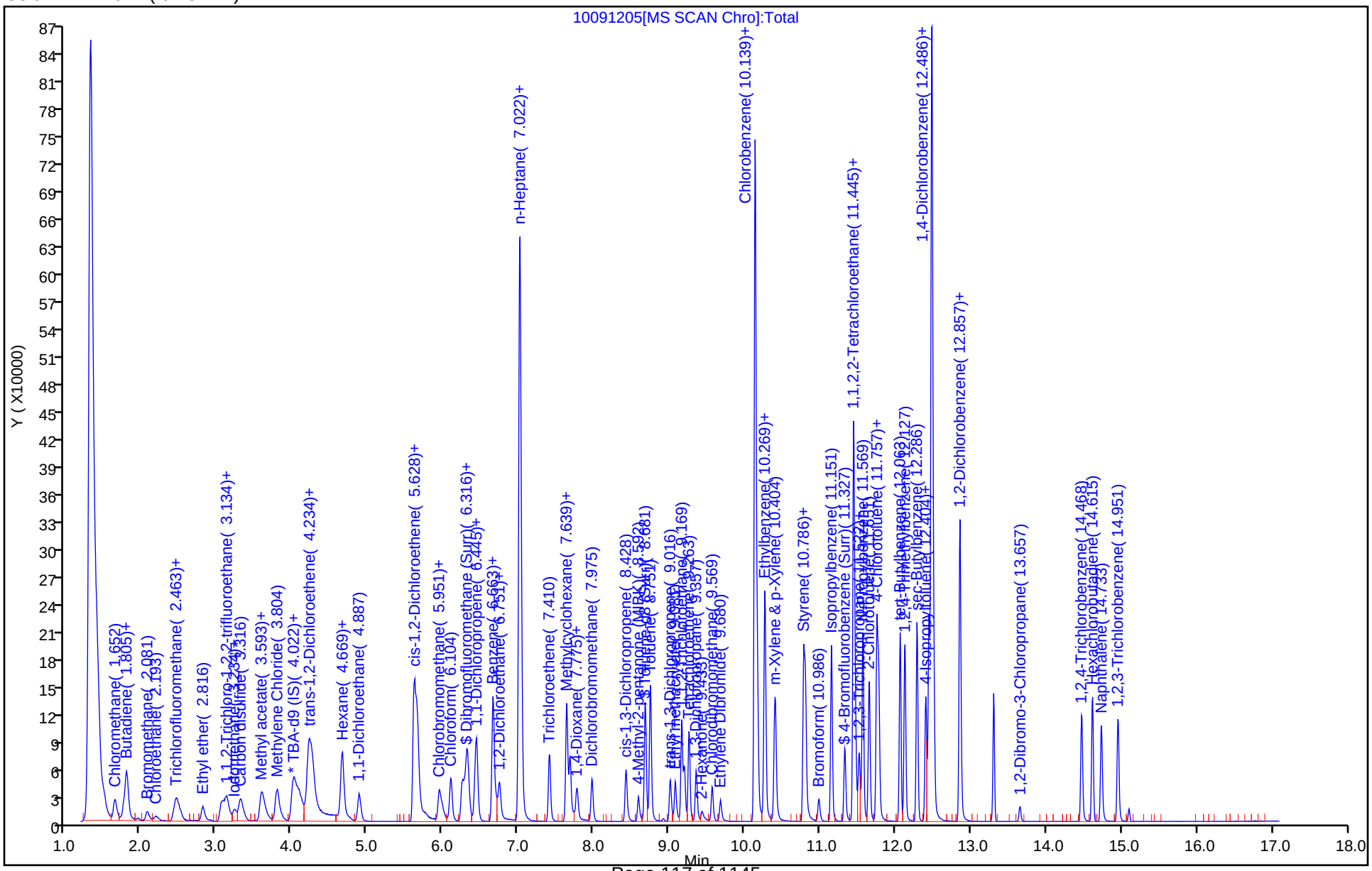
VOA8260INT_00086	Amount Added: 10.00	Units: uL
VOA8260SURR_00086	Amount Added: 1.00	Units: uL
VOA8260VOAPRI_00311	Amount Added: 1.00	Units: uL

Report Date: 13-Sep-2018 17:50:20 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP10\20180912-23596.b\10091205.d				
Injection Date:	12-Sep-2018 09:19:30	Instrument ID:	CHHP10	Operator ID:	Patrick Journet
Lims ID:	ic			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSVOA_CHHP10	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

TestAmerica Pittsburgh

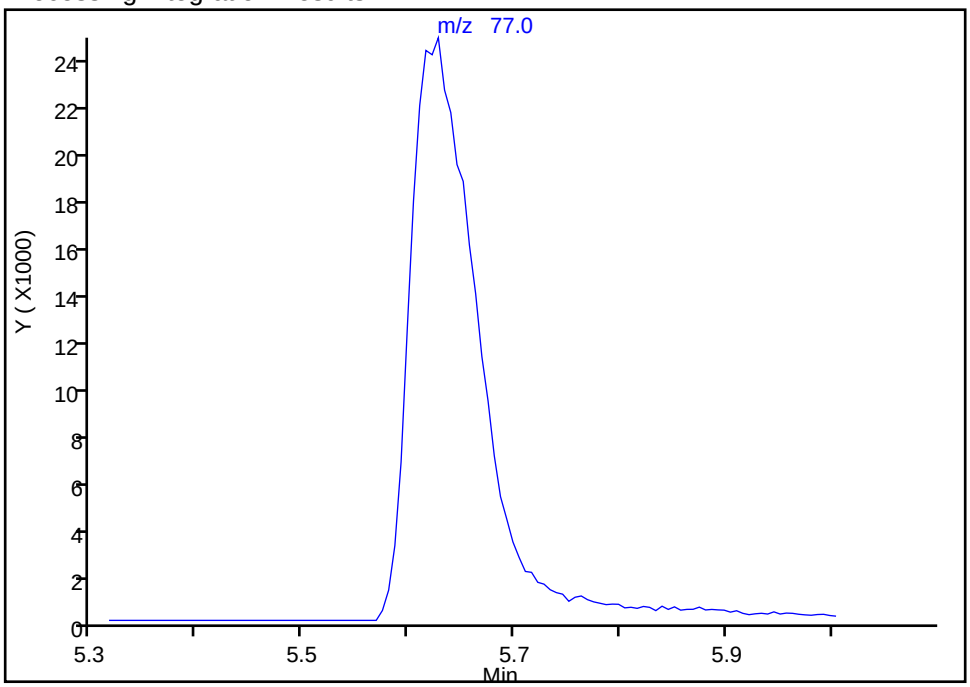
Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP10\20180912-23596.b\10091205.d				
Injection Date:	12-Sep-2018 09:19:30	Instrument ID:	CHHP10		
Lims ID:	ic				
Client ID:					
Operator ID:	Patrick Journet	ALS Bottle#:	1	Worklist Smp#:	5
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP10	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

42 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

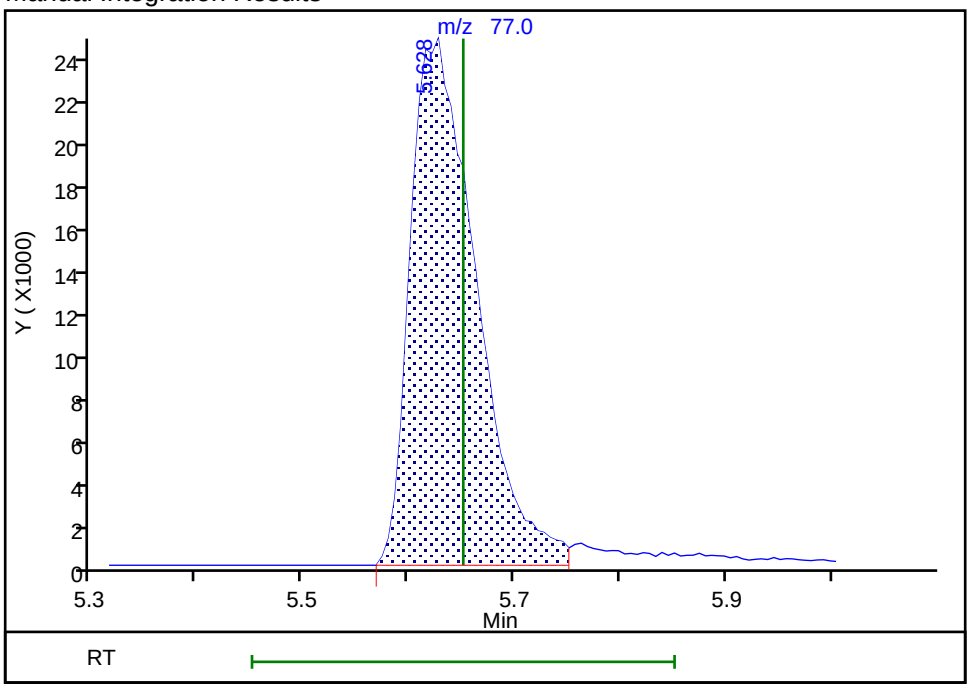
Not Detected
Expected RT: 5.65

Processing Integration Results



Manual Integration Results

RT: 5.63
Area: 107773
Amount: 26.825285
Amount Units: ng



Reviewer: journetp, 13-Sep-2018 16:20:26
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP10\20180912-23596.b\10091206.d
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 12-Sep-2018 09:44:30 ALS Bottle#: 1 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 180-0023596-006
Operator ID: Patrick Journet Instrument ID: CHHP10
Sublist: chrom-MSVOA_CHHP10*sub3

Method: \\ChromNA\Pittsburgh\ChromData\CHHP10\20180912-23596.b\MSVOA_CHHP10.m
Limit Group: VOA 8260C ICAL
Last Update: 13-Sep-2018 17:50:24 Calib Date: 12-Sep-2018 11:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP10\20180912-23596.b\10091211.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: journetp Date: 13-Sep-2018 16:29:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.028	4.046	-0.018	98	300590	5000.0	5000.0	
* 2 Fluorobenzene (IS)	96	7.022	7.016	0.006	98	647806	250.0	250.0	
* 3 Chlorobenzene-d5	119	10.139	10.139	0.000	86	151451	250.0	250.0	
* 4 1,4-Dichlorobenzene-d4	152	12.480	12.486	-0.006	94	260757	250.0	250.0	
$ 5 Dibromofluoromethane (Surr	113	6.287	6.293	-0.006	93	47212	50.0	47.7	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.663	6.663	0.000	0	55978	50.0	46.8	
$ 7 Toluene-d8 (Surr)	98	8.686	8.681	0.005	93	201790	50.0	47.5	
$ 8 4-Bromofluorobenzene (Surr	95	11.327	11.328	-0.001	91	70697	50.0	47.1	
10 Dichlorodifluoromethane	85	1.505	1.511	-0.005	99	76289	50.0	51.5	
11 Chloromethane	50	1.652	1.658	-0.006	99	82191	50.0	55.5	
12 Vinyl chloride	62	1.781	1.787	-0.006	98	74655	50.0	50.9	
13 Butadiene	39	1.810	1.810	0.000	94	68565	50.0	50.1	
14 Bromomethane	94	2.075	2.081	-0.006	92	21215	50.0	54.8	
15 Chloroethane	64	2.199	2.205	-0.006	94	17084	50.0	52.9	
17 Dichlorofluoromethane	67	2.457	2.457	0.000	87	56506	50.0	54.2	
16 Trichlorofluoromethane	101	2.469	2.469	0.000	88	54285	50.0	53.5	
18 Ethyl ether	59	2.810	2.822	-0.012	91	31334	50.0	52.2	
20 1,1-Dichloroethene	96	3.075	3.057	0.018	99	39649	50.0	47.9	
21 1,1,2-Trichloro-1,2,2-trif	101	3.128	3.140	-0.012	69	42241	50.0	48.7	
22 Acetone	43	3.199	3.199	0.000	63	18994	50.0	44.8	
23 Iodomethane	142	3.246	3.234	0.012	93	65733	50.0	48.9	
24 Carbon disulfide	76	3.322	3.316	0.006	97	138108	50.0	47.6	
26 3-Chloro-1-propene	76	3.593	3.593	0.000	89	29409	50.0	48.0	
28 Methyl acetate	43	3.640	3.646	-0.006	94	69785	100.0	102.1	
29 Methylene Chloride	84	3.804	3.804	0.000	99	58716	50.0	52.1	
32 2-Methyl-2-propanol	59	4.157	4.175	-0.018	95	51520	500.0	476.5	
31 Acrylonitrile	53	4.216	4.222	-0.006	95	164555	500.0	455.7	
30 trans-1,2-Dichloroethene	96	4.234	4.228	0.006	91	50393	50.0	48.2	
33 Methyl tert-butyl ether	73	4.275	4.269	0.006	96	142668	50.0	45.8	
34 Hexane	57	4.669	4.657	0.012	97	98669	50.0	50.6	
36 1,1-Dichloroethane	63	4.893	4.887	0.006	99	94389	50.0	48.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
42 2,2-Dichloropropane	97	5.651	5.651	0.000	100	11917	50.0	52.3	
41 cis-1,2-Dichloroethene	96	5.663	5.657	0.006	80	59203	50.0	48.4	
43 2-Butanone (MEK)	43	5.698	5.698	0.000	99	24134	50.0	46.2	
46 Chlorobromomethane	128	5.951	5.951	0.000	85	26149	50.0	47.6	
48 Tetrahydrofuran	42	5.993	5.993	-0.001	91	29033	100.0	87.2	
49 Chloroform	83	6.104	6.104	0.000	99	93680	50.0	48.3	
50 1,1,1-Trichloroethane	97	6.257	6.257	0.000	95	75423	50.0	47.8	
52 Cyclohexane	56	6.322	6.322	0.000	95	101162	50.0	47.9	
53 Carbon tetrachloride	117	6.428	6.428	0.000	85	73662	50.0	47.7	
54 1,1-Dichloropropene	75	6.451	6.445	0.006	94	79379	50.0	47.5	
55 Benzene	78	6.669	6.663	0.006	88	232467	50.0	47.4	
51 Isobutyl alcohol	41	6.710	6.710	0.000	94	43905	1250.0	1122.8	
56 1,2-Dichloroethane	62	6.751	6.751	0.000	99	70890	50.0	47.5	
59 n-Heptane	43	7.040	7.040	0.000	82	103703	50.0	48.5	
60 Trichloroethene	130	7.410	7.410	0.000	94	59992	50.0	46.9	
63 Methylcyclohexane	83	7.645	7.640	0.005	93	115789	50.0	47.6	
64 1,2-Dichloropropane	63	7.687	7.687	0.000	95	57185	50.0	47.2	
65 Dibromomethane	93	7.775	7.775	0.000	88	29273	50.0	45.2	
67 1,4-Dioxane	88	7.787	7.792	-0.006	27	6551	1000.0	991.8	
68 Dichlorobromomethane	83	7.975	7.975	0.000	98	71574	50.0	46.5	
71 cis-1,3-Dichloropropene	75	8.428	8.428	0.000	98	81068	50.0	44.2	
72 4-Methyl-2-pentanone (MIBK	43	8.592	8.592	0.000	97	48474	50.0	44.4	
73 Toluene	91	8.751	8.751	0.000	94	249577	50.0	47.2	
74 trans-1,3-Dichloropropene	75	9.016	9.010	0.006	94	70320	50.0	43.7	
75 Ethyl methacrylate	69	9.081	9.081	0.000	95	58794	50.0	42.2	
76 1,1,2-Trichloroethane	97	9.204	9.204	0.000	98	44572	50.0	47.0	
77 Tetrachloroethene	164	9.263	9.263	0.000	96	48416	50.0	47.2	
78 1,3-Dichloropropane	76	9.357	9.357	0.000	95	78567	50.0	47.1	
79 2-Hexanone	43	9.433	9.434	-0.001	96	29373	50.0	39.7	
81 Chlorodibromomethane	129	9.569	9.569	0.000	98	48614	50.0	45.2	
82 Ethylene Dibromide	107	9.681	9.681	-0.001	100	40493	50.0	45.3	
83 Chlorobenzene	112	10.169	10.169	0.000	93	172075	50.0	48.8	
84 1,1,1,2-Tetrachloroethane	131	10.263	10.263	0.000	96	57229	50.0	46.5	
85 Ethylbenzene	106	10.275	10.275	0.000	96	91006	50.0	46.2	
86 m-Xylene & p-Xylene	106	10.404	10.404	0.000	98	109611	50.0	46.4	
88 o-Xylene	106	10.780	10.786	-0.006	96	110996	50.0	47.6	
89 Styrene	104	10.810	10.810	0.000	94	184009	50.0	46.0	
90 Bromoform	173	10.986	10.986	0.000	99	28670	50.0	41.8	
91 Isopropylbenzene	105	11.151	11.151	0.000	97	291496	50.0	47.5	
94 Bromobenzene	156	11.463	11.463	0.000	98	69703	50.0	48.1	
93 1,1,2,2-Tetrachloroethane	83	11.475	11.475	-0.001	97	63752	50.0	46.8	
96 trans-1,4-Dichloro-2-buten	53	11.510	11.510	0.000	81	15028	50.0	45.8	
95 1,2,3-Trichloropropane	110	11.522	11.522	0.000	96	18007	50.0	47.4	
97 N-Propylbenzene	120	11.569	11.569	0.000	97	84044	50.0	48.4	
98 2-Chlorotoluene	126	11.651	11.657	-0.006	99	72145	50.0	49.4	
99 1,3,5-Trimethylbenzene	105	11.751	11.757	-0.006	97	250708	50.0	48.0	
100 4-Chlorotoluene	126	11.780	11.780	0.000	98	74484	50.0	48.1	
101 tert-Butylbenzene	119	12.063	12.063	0.000	96	216570	50.0	48.1	
103 1,2,4-Trimethylbenzene	105	12.127	12.127	0.000	98	254807	50.0	48.2	
104 sec-Butylbenzene	105	12.286	12.286	0.000	98	336318	50.0	49.0	
105 1,3-Dichlorobenzene	146	12.404	12.404	0.000	96	134971	50.0	47.8	
106 4-Isopropyltoluene	119	12.445	12.445	0.000	98	291648	50.0	48.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
107 1,4-Dichlorobenzene	146	12.510	12.510	0.000	94	145425	50.0	48.4	
110 n-Butylbenzene	91	12.851	12.851	0.000	96	264160	50.0	48.7	
111 1,2-Dichlorobenzene	146	12.863	12.863	0.000	90	132438	50.0	49.0	
112 1,2-Dibromo-3-Chloropropan	157	13.657	13.651	0.006	92	10852	50.0	42.6	
114 1,2,4-Trichlorobenzene	180	14.468	14.468	0.000	96	91105	50.0	48.8	
115 Hexachlorobutadiene	225	14.610	14.616	-0.006	96	54773	50.0	49.8	
116 Naphthalene	128	14.733	14.733	0.000	98	204881	50.0	47.9	
117 1,2,3-Trichlorobenzene	180	14.951	14.951	0.000	96	83423	50.0	48.6	
S 130 1,2-Dichloroethene, Total	96				0		100.0	96.6	
S 129 Xylenes, Total	106				0		100.0	94.0	
S 131 1,3-Dichloropropene, Total	1				0		100.0	88.0	
S 145 Total BTEX	1				0			234.8	

Reagents:

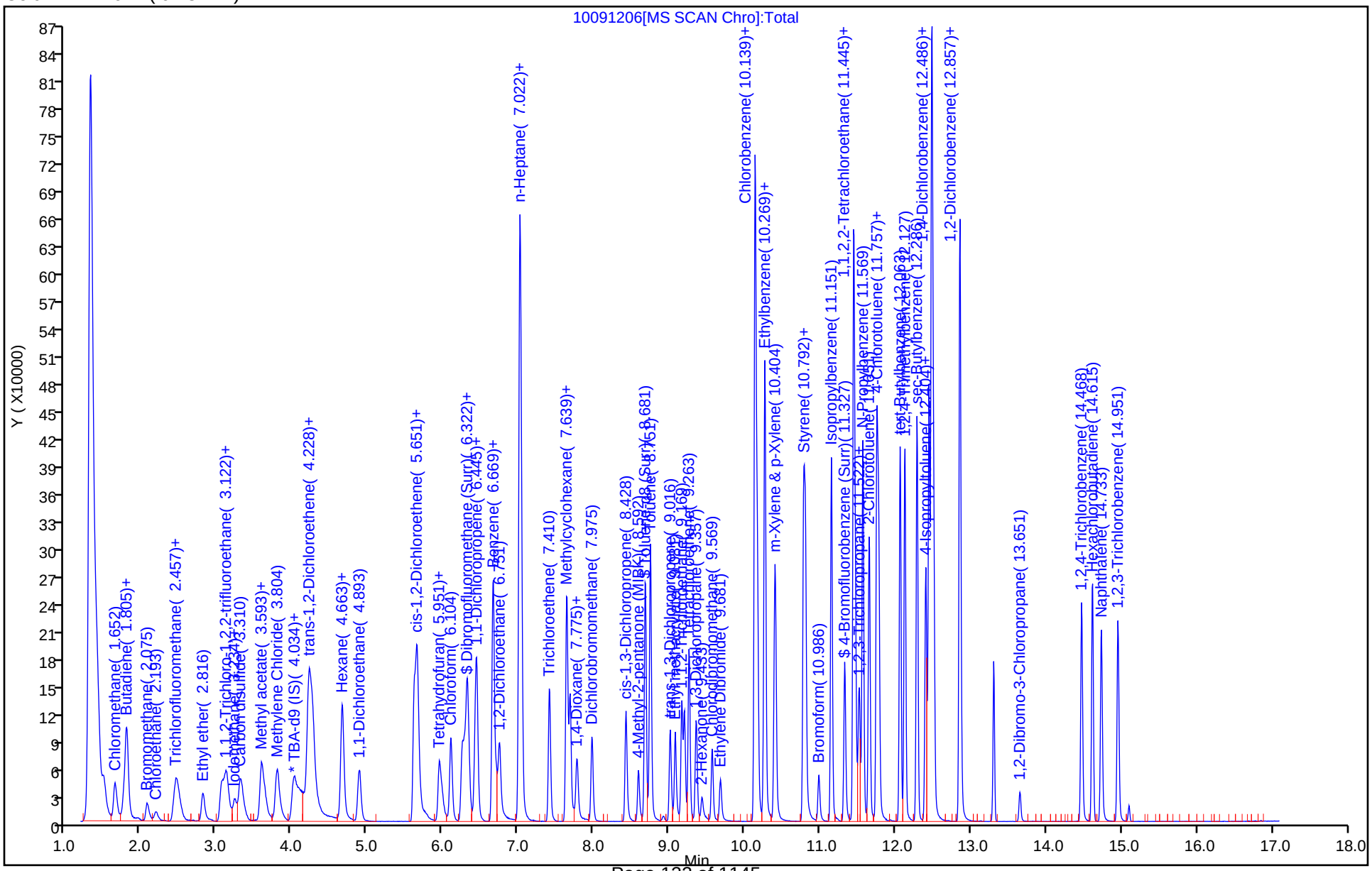
VOA8260INT_00086 Amount Added: 10.00 Units: uL
VOA8260SURR_00086 Amount Added: 2.00 Units: uL
VOA8260VOAPRI_00311 Amount Added: 2.00 Units: uL

Report Date: 13-Sep-2018 17:50:25 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP10\20180912-23596.b\10091206.d				
Injection Date:	12-Sep-2018 09:44:30	Instrument ID:	CHHP10	Operator ID:	Patrick Journet
Lims ID:	ic			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSVOA_CHHP10	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP10\20180912-23596.b\10091207.d
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 12-Sep-2018 10:10:30 ALS Bottle#: 1 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 180-0023596-007
Operator ID: Patrick Journet Instrument ID: CHHP10
Sublist: chrom-MSVOA_CHHP10*sub3

Method: \\ChromNA\Pittsburgh\ChromData\CHHP10\20180912-23596.b\MSVOA_CHHP10.m
Limit Group: VOA 8260C ICAL
Last Update: 13-Sep-2018 17:50:29 Calib Date: 12-Sep-2018 11:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP10\20180912-23596.b\10091211.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: journetp Date: 13-Sep-2018 16:30:15

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.028	4.046	-0.018	98	297205	5000.0	5000.0	
* 2 Fluorobenzene (IS)	96	7.022	7.016	0.006	99	687935	250.0	250.0	
* 3 Chlorobenzene-d5	119	10.139	10.139	0.000	86	160348	250.0	250.0	
* 4 1,4-Dichlorobenzene-d4	152	12.480	12.486	-0.006	94	287723	250.0	250.0	
$ 5 Dibromofluoromethane (Surr	113	6.287	6.293	-0.006	93	119674	125.0	113.9	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.663	6.663	0.000	0	139513	125.0	109.9	
$ 7 Toluene-d8 (Surr)	98	8.686	8.681	0.005	93	546068	125.0	121.4	
$ 8 4-Bromofluorobenzene (Surr	95	11.327	11.328	-0.001	89	187913	125.0	118.2	
10 Dichlorodifluoromethane	85	1.504	1.511	-0.006	99	195781	125.0	124.5	
11 Chloromethane	50	1.657	1.658	-0.001	99	190078	125.0	120.8	
12 Vinyl chloride	62	1.781	1.787	-0.006	98	192331	125.0	123.4	
13 Butadiene	39	1.810	1.810	0.000	97	174075	125.0	119.7	
14 Bromomethane	94	2.081	2.081	0.000	91	49841	125.0	121.2	
15 Chloroethane	64	2.199	2.205	-0.006	94	40935	125.0	119.4	
17 Dichlorofluoromethane	67	2.457	2.457	0.000	92	130758	125.0	118.0	
16 Trichlorofluoromethane	101	2.469	2.469	0.000	91	128912	125.0	119.5	
18 Ethyl ether	59	2.816	2.822	-0.006	94	82995	125.0	130.3	
20 1,1-Dichloroethene	96	3.063	3.057	0.006	98	104753	125.0	119.3	
21 1,1,2-Trichloro-1,2,2-trif	101	3.146	3.140	0.006	67	109576	125.0	119.0	
22 Acetone	43	3.193	3.199	-0.006	65	43461	125.0	120.1	
23 Iodomethane	142	3.246	3.234	0.012	93	168636	125.0	118.0	
24 Carbon disulfide	76	3.316	3.316	0.000	99	371238	125.0	120.6	
26 3-Chloro-1-propene	76	3.587	3.593	-0.006	88	75154	125.0	115.4	
28 Methyl acetate	43	3.640	3.646	-0.006	94	150280	250.0	207.0	
29 Methylene Chloride	84	3.798	3.804	-0.006	100	136316	125.0	114.0	
32 2-Methyl-2-propanol	59	4.157	4.175	-0.018	97	140159	1250.0	1311.1	
31 Acrylonitrile	53	4.216	4.222	-0.006	96	398296	1250.0	1038.7	
30 trans-1,2-Dichloroethene	96	4.222	4.228	-0.006	88	133779	125.0	120.6	
33 Methyl tert-butyl ether	73	4.275	4.269	0.006	96	376979	125.0	114.0	
34 Hexane	57	4.663	4.657	0.006	99	243194	125.0	117.5	
36 1,1-Dichloroethane	63	4.887	4.887	0.000	99	247968	125.0	118.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
42 2,2-Dichloropropane	97	5.651	5.651	0.000	100	30682	125.0	126.8	
41 cis-1,2-Dichloroethene	96	5.663	5.657	0.006	82	152419	125.0	117.4	
43 2-Butanone (MEK)	43	5.698	5.698	0.000	100	60693	125.0	109.5	
46 Chlorobromomethane	128	5.951	5.951	0.000	85	67070	125.0	114.9	
48 Tetrahydrofuran	42	5.992	5.993	-0.001	92	72882	250.0	206.2	
49 Chloroform	83	6.104	6.104	0.000	98	245100	125.0	119.0	
50 1,1,1-Trichloroethane	97	6.257	6.257	0.000	93	201252	125.0	120.1	
52 Cyclohexane	56	6.322	6.322	0.000	96	270823	125.0	120.8	
53 Carbon tetrachloride	117	6.428	6.428	0.000	86	194908	125.0	118.7	
54 1,1-Dichloropropene	75	6.451	6.445	0.006	90	210509	125.0	118.6	
55 Benzene	78	6.663	6.663	0.000	88	621779	125.0	119.4	
51 Isobutyl alcohol	41	6.710	6.710	0.000	94	118354	3125.0	2850.2	
56 1,2-Dichloroethane	62	6.751	6.751	0.000	99	180725	125.0	114.1	
59 n-Heptane	43	7.039	7.040	-0.001	97	277691	125.0	122.3	
60 Trichloroethene	130	7.410	7.410	0.000	93	162755	125.0	119.7	
63 Methylcyclohexane	83	7.639	7.640	-0.001	94	316849	125.0	122.6	
64 1,2-Dichloropropane	63	7.686	7.687	-0.001	96	149691	125.0	116.4	
65 Dibromomethane	93	7.775	7.775	0.000	87	76042	125.0	110.7	
67 1,4-Dioxane	88	7.792	7.792	0.000	41	20307	2500.0	2492.0	
68 Dichlorobromomethane	83	7.975	7.975	0.000	99	187067	125.0	114.5	
71 cis-1,3-Dichloropropene	75	8.428	8.428	0.000	98	222258	125.0	114.2	
72 4-Methyl-2-pentanone (MIBK	43	8.592	8.592	0.000	98	125510	125.0	108.7	
73 Toluene	91	8.751	8.751	0.000	94	701850	125.0	125.3	
74 trans-1,3-Dichloropropene	75	9.010	9.010	0.000	94	202643	125.0	119.0	
75 Ethyl methacrylate	69	9.080	9.081	-0.001	95	171733	125.0	116.3	
76 1,1,2-Trichloroethane	97	9.204	9.204	0.000	98	115920	125.0	115.4	
77 Tetrachloroethene	164	9.263	9.263	0.000	95	129081	125.0	118.9	
78 1,3-Dichloropropane	76	9.357	9.357	0.000	96	207307	125.0	117.3	
79 2-Hexanone	43	9.433	9.434	-0.001	98	90239	125.0	115.2	
81 Chlorodibromomethane	129	9.569	9.569	0.000	97	130546	125.0	114.8	
82 Ethylene Dibromide	107	9.680	9.681	-0.001	99	107616	125.0	113.7	
83 Chlorobenzene	112	10.169	10.169	0.000	92	463145	125.0	124.1	
84 1,1,1,2-Tetrachloroethane	131	10.263	10.263	0.000	97	159611	125.0	122.4	
85 Ethylbenzene	106	10.275	10.275	-0.001	96	255640	125.0	122.6	
86 m-Xylene & p-Xylene	106	10.404	10.404	0.000	98	309331	125.0	123.7	
88 o-Xylene	106	10.786	10.786	0.000	97	308606	125.0	125.0	
89 Styrene	104	10.804	10.810	-0.006	96	519315	125.0	122.6	
90 Bromoform	173	10.986	10.986	0.000	98	80744	125.0	111.1	
91 Isopropylbenzene	105	11.151	11.151	0.000	97	816598	125.0	125.8	
94 Bromobenzene	156	11.463	11.463	0.000	98	183875	125.0	115.0	
93 1,1,2,2-Tetrachloroethane	83	11.469	11.475	-0.006	98	161835	125.0	112.2	
96 trans-1,4-Dichloro-2-buten	53	11.510	11.510	0.000	88	40673	125.0	112.3	
95 1,2,3-Trichloropropane	110	11.521	11.522	-0.001	94	45464	125.0	108.5	
97 N-Propylbenzene	120	11.569	11.569	0.000	97	231631	125.0	121.0	
98 2-Chlorotoluene	126	11.651	11.657	-0.006	99	195951	125.0	121.6	
99 1,3,5-Trimethylbenzene	105	11.757	11.757	0.000	97	698733	125.0	121.2	
100 4-Chlorotoluene	126	11.780	11.780	0.000	98	208724	125.0	122.2	
101 tert-Butylbenzene	119	12.063	12.063	0.000	96	614567	125.0	123.6	
103 1,2,4-Trimethylbenzene	105	12.127	12.127	0.000	98	721539	125.0	123.7	
104 sec-Butylbenzene	105	12.286	12.286	0.000	98	939428	125.0	124.1	
105 1,3-Dichlorobenzene	146	12.404	12.404	0.000	96	367364	125.0	117.8	
106 4-Isopropyltoluene	119	12.445	12.445	0.000	97	824891	125.0	124.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
107 1,4-Dichlorobenzene	146	12.510	12.510	0.000	94	398835	125.0	120.3	
110 n-Butylbenzene	91	12.857	12.851	0.006	96	743880	125.0	124.3	
111 1,2-Dichlorobenzene	146	12.863	12.863	0.000	89	356970	125.0	119.6	
112 1,2-Dibromo-3-Chloropropan	157	13.651	13.651	0.000	92	28975	125.0	103.0	
114 1,2,4-Trichlorobenzene	180	14.468	14.468	0.000	97	250231	125.0	121.5	
115 Hexachlorobutadiene	225	14.615	14.616	-0.001	95	148060	125.0	122.1	
116 Naphthalene	128	14.733	14.733	0.000	98	535798	125.0	113.6	
117 1,2,3-Trichlorobenzene	180	14.951	14.951	0.000	96	223503	125.0	118.0	
S 129 Xylenes, Total	106				0		250.0	248.7	
S 130 1,2-Dichloroethene, Total	96				0		250.0	237.9	
S 145 Total BTEX	1				0			616.0	
S 131 1,3-Dichloropropene, Total	1				0		250.0	233.2	

Reagents:

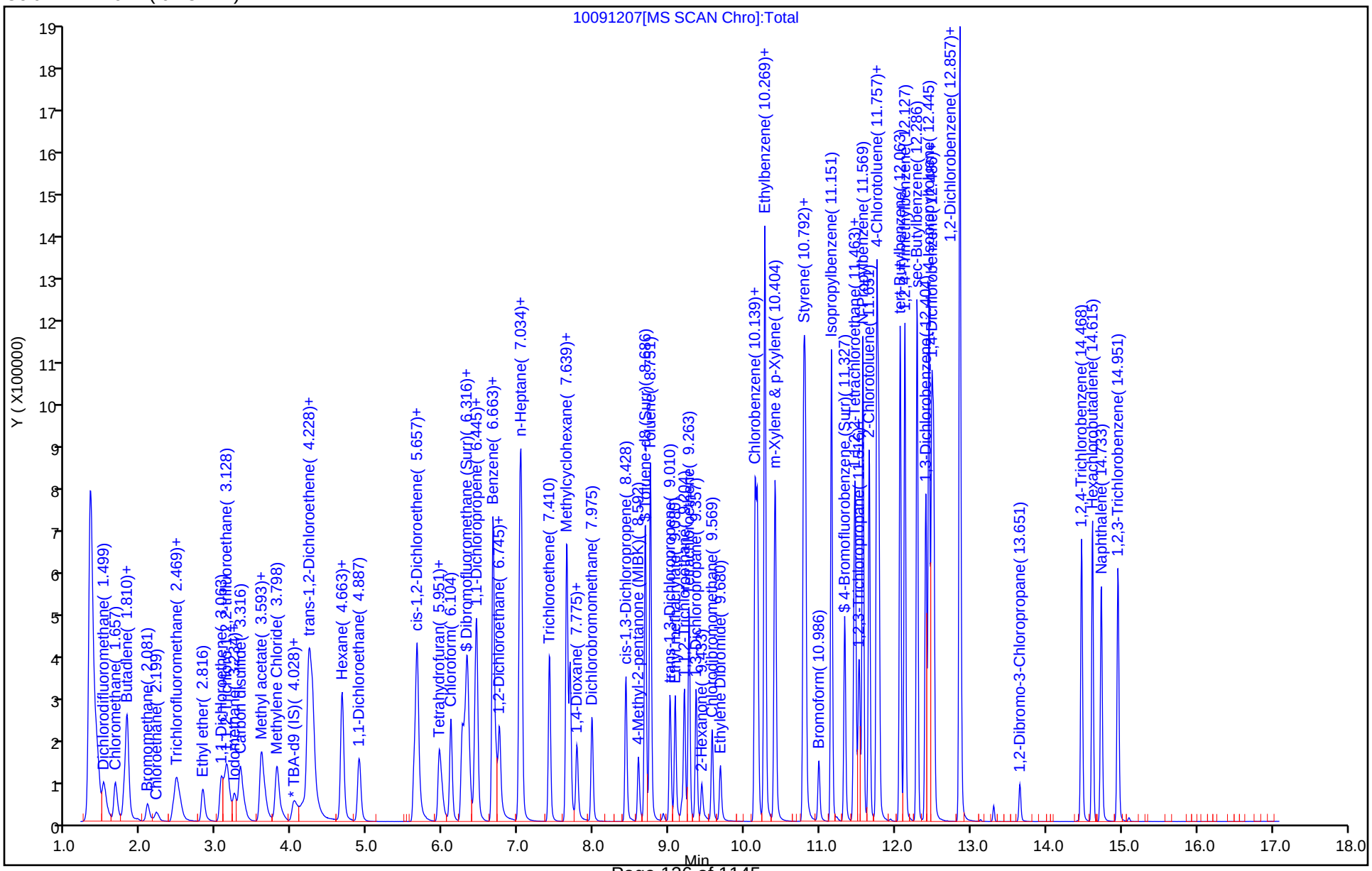
VOA8260INT_00086	Amount Added: 10.00	Units: uL
VOA8260SURR_00086	Amount Added: 5.00	Units: uL
VOA8260VOAPRI_00311	Amount Added: 5.00	Units: uL

Report Date: 13-Sep-2018 17:50:30 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP10\20180912-23596.b\10091207.d				
Injection Date:	12-Sep-2018 10:10:30	Instrument ID:	CHHP10	Operator ID:	Patrick Journet
Lims ID:	ic			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSVOA_CHHP10	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP10\20180912-23596.b\10091208.d
Lims ID: icis
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 12-Sep-2018 10:36:30 ALS Bottle#: 1 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 180-0023596-008
Operator ID: Patrick Journet Instrument ID: CHHP10
Sublist: chrom-MSVOA_CHHP10*sub3

Method: \\ChromNA\Pittsburgh\ChromData\CHHP10\20180912-23596.b\MSVOA_CHHP10.m
Limit Group: VOA 8260C ICAL
Last Update: 13-Sep-2018 17:50:34 Calib Date: 12-Sep-2018 11:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP10\20180912-23596.b\10091211.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: journetp Date: 13-Sep-2018 17:49:43

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.046	4.046	0.000	98	315952	5000.0	5000.0	
* 2 Fluorobenzene (IS)	96	7.016	7.016	0.000	99	620837	250.0	250.0	
* 3 Chlorobenzene-d5	119	10.139	10.139	0.000	87	153059	250.0	250.0	
* 4 1,4-Dichlorobenzene-d4	152	12.486	12.486	0.000	95	273902	250.0	250.0	
$ 5 Dibromofluoromethane (Surr	113	6.293	6.293	0.000	93	188754	200.0	199.1	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.663	6.663	0.000	0	232558	200.0	203.0	
$ 7 Toluene-d8 (Surr)	98	8.681	8.681	0.000	93	864717	200.0	201.4	
$ 8 4-Bromofluorobenzene (Surr	95	11.328	11.328	0.000	89	315745	200.0	208.0	
10 Dichlorodifluoromethane	85	1.511	1.511	0.000	99	269079	200.0	189.6	
11 Chloromethane	50	1.658	1.658	0.000	99	264671	200.0	186.4	
12 Vinyl chloride	62	1.787	1.787	0.000	98	265627	200.0	188.9	
13 Butadiene	39	1.810	1.810	0.000	97	245689	200.0	187.3	
14 Bromomethane	94	2.081	2.081	0.000	90	70571	200.0	190.2	
15 Chloroethane	64	2.205	2.205	0.000	94	56699	200.0	183.2	
17 Dichlorofluoromethane	67	2.457	2.457	0.000	85	181948	200.0	182.0	
16 Trichlorofluoromethane	101	2.469	2.469	0.000	86	177542	200.0	182.4	
18 Ethyl ether	59	2.822	2.822	0.000	98	98325	200.0	171.0	
20 1,1-Dichloroethene	96	3.057	3.057	0.000	98	149409	200.0	188.5	
21 1,1,2-Trichloro-1,2,2-trif	101	3.140	3.140	0.000	67	157758	200.0	189.9	
22 Acetone	43	3.199	3.199	0.000	81	59416	200.0	192.4	
23 Iodomethane	142	3.234	3.234	0.000	93	241731	200.0	187.5	
24 Carbon disulfide	76	3.316	3.316	0.000	98	529884	200.0	190.8	
26 3-Chloro-1-propene	76	3.593	3.593	0.000	88	112600	200.0	191.6	
28 Methyl acetate	43	3.646	3.646	0.000	94	264394	400.0	403.6	
29 Methylene Chloride	84	3.804	3.804	0.000	100	197354	200.0	182.8	
32 2-Methyl-2-propanol	59	4.175	4.175	0.000	91	180934	2000.0	1592.1	
31 Acrylonitrile	53	4.222	4.222	0.000	97	689388	2000.0	1992.1	
30 trans-1,2-Dichloroethene	96	4.228	4.228	0.000	91	190630	200.0	190.4	
33 Methyl tert-butyl ether	73	4.269	4.269	0.000	95	586969	200.0	196.7	
34 Hexane	57	4.657	4.657	0.000	98	349027	200.0	186.8	
36 1,1-Dichloroethane	63	4.887	4.887	0.000	99	363185	200.0	192.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
42 2,2-Dichloropropane	97	5.651	5.651	0.000	96	41107	200.0	188.3	
41 cis-1,2-Dichloroethene	96	5.657	5.657	0.000	81	223413	200.0	190.6	
43 2-Butanone (MEK)	43	5.698	5.698	0.000	100	102254	200.0	204.4	
46 Chlorobromomethane	128	5.951	5.951	0.000	85	101157	200.0	192.0	
48 Tetrahydrofuran	42	5.993	5.993	0.000	94	127672	400.0	400.3	
49 Chloroform	83	6.104	6.104	0.000	98	357080	200.0	192.1	
50 1,1,1-Trichloroethane	97	6.257	6.257	0.000	94	288174	200.0	190.6	
52 Cyclohexane	56	6.322	6.322	0.000	96	392294	200.0	193.9	
53 Carbon tetrachloride	117	6.428	6.428	0.000	86	281720	200.0	190.2	
54 1,1-Dichloropropene	75	6.445	6.445	0.000	93	309378	200.0	193.2	
55 Benzene	78	6.663	6.663	0.000	89	915361	200.0	194.8	
51 Isobutyl alcohol	41	6.710	6.710	0.000	94	190792	5000.0	5091.1	
56 1,2-Dichloroethane	62	6.751	6.751	0.000	99	286827	200.0	200.7	
59 n-Heptane	43	7.040	7.040	0.000	93	397097	200.0	193.8	
60 Trichloroethene	130	7.410	7.410	0.000	94	232317	200.0	189.3	
63 Methylcyclohexane	83	7.640	7.640	0.000	94	454231	200.0	194.8	
64 1,2-Dichloropropane	63	7.687	7.687	0.000	95	227869	200.0	196.3	
65 Dibromomethane	93	7.775	7.775	0.000	88	121745	200.0	196.3	
67 1,4-Dioxane	88	7.792	7.792	0.000	92	30491	4000.0	4006.7	
68 Dichlorobromomethane	83	7.975	7.975	0.000	99	286730	200.0	194.4	
71 cis-1,3-Dichloropropene	75	8.428	8.428	0.000	98	347908	200.0	198.1	
72 4-Methyl-2-pentanone (MIBK	43	8.592	8.592	0.000	98	220752	200.0	200.3	
73 Toluene	91	8.751	8.751	0.000	94	1036822	200.0	193.9	
74 trans-1,3-Dichloropropene	75	9.010	9.010	0.000	94	318797	200.0	196.1	
75 Ethyl methacrylate	69	9.081	9.081	0.000	95	287681	200.0	204.1	
76 1,1,2-Trichloroethane	97	9.204	9.204	0.000	98	186423	200.0	194.5	
77 Tetrachloroethene	164	9.263	9.263	0.000	95	188693	200.0	182.1	
78 1,3-Dichloropropane	76	9.357	9.357	0.000	95	333104	200.0	197.4	
79 2-Hexanone	43	9.434	9.434	0.000	98	155598	200.0	208.1	
81 Chlorodibromomethane	129	9.569	9.569	0.000	98	210636	200.0	194.0	
82 Ethylene Dibromide	107	9.681	9.681	0.000	98	178085	200.0	197.1	
83 Chlorobenzene	112	10.169	10.169	0.000	93	684123	200.0	192.0	
84 1,1,1,2-Tetrachloroethane	131	10.263	10.263	0.000	96	241291	200.0	193.8	
85 Ethylbenzene	106	10.275	10.275	0.000	95	381073	200.0	191.4	
86 m-Xylene & p-Xylene	106	10.404	10.404	0.000	98	466773	200.0	195.6	
88 o-Xylene	106	10.786	10.786	0.000	97	461772	200.0	195.9	
89 Styrene	104	10.810	10.810	0.000	93	790842	200.0	195.5	
90 Bromoform	173	10.986	10.986	0.000	99	137941	200.0	198.8	
91 Isopropylbenzene	105	11.151	11.151	0.000	97	1223121	200.0	197.4	
94 Bromobenzene	156	11.463	11.463	0.000	97	290340	200.0	190.7	
93 1,1,2,2-Tetrachloroethane	83	11.475	11.475	0.000	97	277443	200.0	201.6	
96 trans-1,4-Dichloro-2-buten	53	11.510	11.510	0.000	87	73991	200.0	214.5	
95 1,2,3-Trichloropropane	110	11.522	11.522	0.000	95	79801	200.0	200.1	
97 N-Propylbenzene	120	11.569	11.569	0.000	97	347181	200.0	190.5	
98 2-Chlorotoluene	126	11.657	11.657	0.000	99	295567	200.0	192.6	
99 1,3,5-Trimethylbenzene	105	11.757	11.757	0.000	97	1063056	200.0	193.6	
100 4-Chlorotoluene	126	11.780	11.780	0.000	98	310473	200.0	191.0	
101 tert-Butylbenzene	119	12.063	12.063	0.000	96	921567	200.0	194.7	
103 1,2,4-Trimethylbenzene	105	12.127	12.127	0.000	98	1080896	200.0	194.7	
104 sec-Butylbenzene	105	12.286	12.286	0.000	98	1402875	200.0	194.7	
105 1,3-Dichlorobenzene	146	12.404	12.404	0.000	95	571401	200.0	192.5	
106 4-Isopropyltoluene	119	12.445	12.445	0.000	97	1217544	200.0	193.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
107 1,4-Dichlorobenzene	146	12.510	12.510	0.000	94	606618	200.0	192.2	
110 n-Butylbenzene	91	12.851	12.851	0.000	95	1122903	200.0	197.1	
111 1,2-Dichlorobenzene	146	12.863	12.863	0.000	90	553816	200.0	194.9	
112 1,2-Dibromo-3-Chloropropan	157	13.651	13.651	0.000	91	53877	200.0	201.2	
114 1,2,4-Trichlorobenzene	180	14.468	14.468	0.000	97	385921	200.0	196.9	
115 Hexachlorobutadiene	225	14.616	14.616	0.000	95	224929	200.0	194.9	
116 Naphthalene	128	14.733	14.733	0.000	98	916911	200.0	204.2	
117 1,2,3-Trichlorobenzene	180	14.951	14.951	0.000	97	358595	200.0	199.0	
S 130 1,2-Dichloroethene, Total	96				0		400.0	381.0	
S 129 Xylenes, Total	106				0		400.0	391.5	
S 131 1,3-Dichloropropene, Total	1				0		400.0	394.2	

Reagents:

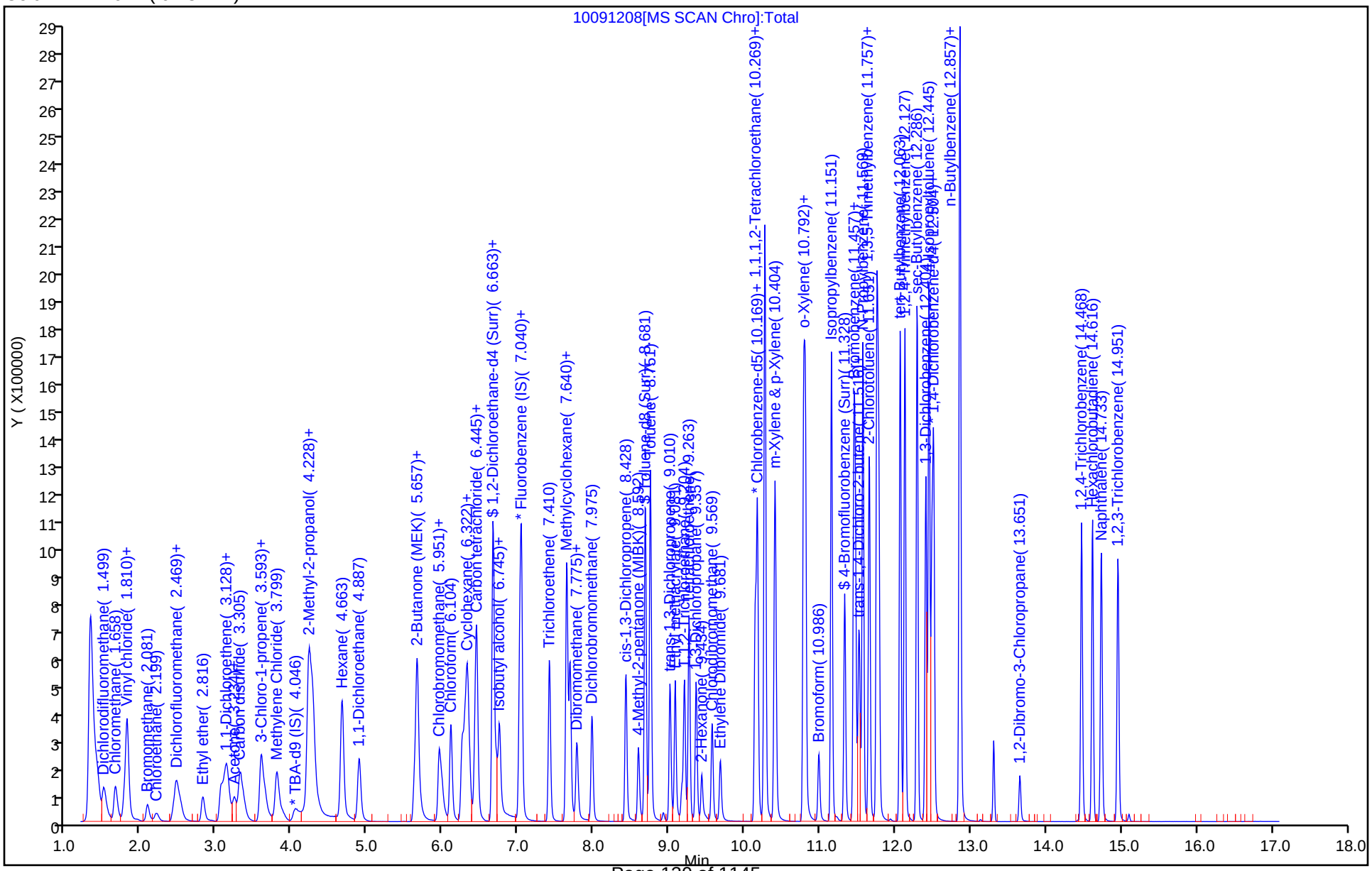
VOA8260INT_00086 Amount Added: 10.00 Units: uL
VOA8260SURR_00086 Amount Added: 8.00 Units: uL
VOA8260VOAPRI_00311 Amount Added: 8.00 Units: uL

Report Date: 13-Sep-2018 17:50:35 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP10\20180912-23596.b\10091208.d				
Injection Date:	12-Sep-2018 10:36:30	Instrument ID:	CHHP10	Operator ID:	Patrick Journet
Lims ID:	icis			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSVOA_CHHP10	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP10\20180912-23596.b\10091209.d
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 12-Sep-2018 11:01:30 ALS Bottle#: 1 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 180-0023596-009
Operator ID: Patrick Journet Instrument ID: CHHP10
Sublist: chrom-MSVOA_CHHP10*sub3

Method: \\ChromNA\Pittsburgh\ChromData\CHHP10\20180912-23596.b\MSVOA_CHHP10.m
Limit Group: VOA 8260C ICAL
Last Update: 13-Sep-2018 17:50:38 Calib Date: 12-Sep-2018 11:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP10\20180912-23596.b\10091211.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: journetp Date: 13-Sep-2018 16:31:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.034	4.046	-0.012	98	362303	5000.0	5000.0	
* 2 Fluorobenzene (IS)	96	7.022	7.016	0.006	99	698008	250.0	250.0	
* 3 Chlorobenzene-d5	119	10.139	10.139	0.000	85	173861	250.0	250.0	
* 4 1,4-Dichlorobenzene-d4	152	12.486	12.486	0.000	95	309918	250.0	250.0	
$ 5 Dibromofluoromethane (Surr	113	6.287	6.293	-0.007	93	238140	250.0	223.4	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.663	6.663	0.000	0	303694	250.0	235.8	
$ 7 Toluene-d8 (Surr)	98	8.686	8.681	0.005	94	1068015	250.0	219.0	
$ 8 4-Bromofluorobenzene (Surr	95	11.327	11.328	-0.001	89	406074	250.0	235.5	
10 Dichlorodifluoromethane	85	1.504	1.511	-0.006	99	327686	250.0	205.3	
11 Chloromethane	50	1.652	1.658	-0.006	99	332142	250.0	208.0	
12 Vinyl chloride	62	1.781	1.787	-0.006	98	328511	250.0	207.8	
13 Butadiene	39	1.810	1.810	0.000	96	305355	250.0	207.0	
14 Bromomethane	94	2.075	2.081	-0.006	90	91573	250.0	219.5	
15 Chloroethane	64	2.199	2.205	-0.006	95	81515	250.0	234.3	
17 Dichlorofluoromethane	67	2.463	2.457	0.006	87	232164	250.0	206.5	
16 Trichlorofluoromethane	101	2.469	2.469	0.000	88	222622	250.0	203.4	
18 Ethyl ether	59	2.810	2.822	-0.012	95	132859	250.0	205.6	
20 1,1-Dichloroethene	96	3.063	3.057	0.006	99	185394	250.0	208.0	
21 1,1,2-Trichloro-1,2,2-trif	101	3.134	3.140	-0.006	69	190713	250.0	204.2	
22 Acetone	43	3.198	3.199	-0.001	67	76271	250.0	222.6	
23 Iodomethane	142	3.234	3.234	0.000	92	310844	250.0	214.4	
24 Carbon disulfide	76	3.316	3.316	0.000	98	654710	250.0	209.6	
26 3-Chloro-1-propene	76	3.587	3.593	-0.006	88	143844	250.0	217.7	
28 Methyl acetate	43	3.640	3.646	-0.006	94	343636	500.0	466.6	
29 Methylene Chloride	84	3.798	3.804	-0.006	100	252235	250.0	207.8	
32 2-Methyl-2-propanol	59	4.169	4.175	-0.006	98	347863	2500.0	2669.3	
31 Acrylonitrile	53	4.222	4.222	0.000	96	939905	2500.0	2415.7	
30 trans-1,2-Dichloroethene	96	4.222	4.228	-0.006	93	245420	250.0	218.0	
33 Methyl tert-butyl ether	73	4.269	4.269	0.000	95	802728	250.0	239.3	
34 Hexane	57	4.657	4.657	0.000	99	439973	250.0	209.5	
36 1,1-Dichloroethane	63	4.887	4.887	0.000	99	465135	250.0	219.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
42 2,2-Dichloropropane	97	5.651	5.651	0.000	99	51977	250.0	211.7	
41 cis-1,2-Dichloroethene	96	5.657	5.657	0.000	81	291597	250.0	221.3	
43 2-Butanone (MEK)	43	5.698	5.698	0.000	100	122943	250.0	218.6	
46 Chlorobromomethane	128	5.951	5.951	0.000	85	135618	250.0	228.9	
48 Tetrahydrofuran	42	5.987	5.993	-0.006	89	179176	500.0	499.7	
49 Chloroform	83	6.104	6.104	0.000	98	458182	250.0	219.3	
50 1,1,1-Trichloroethane	97	6.257	6.257	0.000	93	357408	250.0	210.2	
52 Cyclohexane	56	6.322	6.322	0.000	96	482262	250.0	212.0	
53 Carbon tetrachloride	117	6.428	6.428	0.000	88	346734	250.0	208.2	
54 1,1-Dichloropropene	75	6.445	6.445	0.000	94	384011	250.0	213.3	
55 Benzene	78	6.663	6.663	0.000	89	1164717	250.0	220.4	
51 Isobutyl alcohol	41	6.710	6.710	0.000	95	270578	6250.0	6421.9	
56 1,2-Dichloroethane	62	6.751	6.751	0.000	99	380411	250.0	236.7	
59 n-Heptane	43	7.039	7.040	-0.001	91	499933	250.0	217.0	
60 Trichloroethene	130	7.410	7.410	0.000	93	292582	250.0	212.1	
63 Methylcyclohexane	83	7.645	7.640	0.005	94	556328	250.0	212.2	
64 1,2-Dichloropropane	63	7.686	7.687	-0.001	94	299891	250.0	229.8	
65 Dibromomethane	93	7.775	7.775	0.000	88	165109	250.0	236.8	
67 1,4-Dioxane	88	7.792	7.792	0.000	93	43244	5000.0	4999.3	
68 Dichlorobromomethane	83	7.975	7.975	0.000	99	375624	250.0	226.6	
71 cis-1,3-Dichloropropene	75	8.428	8.428	0.000	98	467638	250.0	236.9	
72 4-Methyl-2-pentanone (MIBK	43	8.592	8.592	0.000	98	310650	250.0	248.1	
73 Toluene	91	8.751	8.751	0.000	94	1312747	250.0	216.2	
74 trans-1,3-Dichloropropene	75	9.010	9.010	0.000	94	446478	250.0	241.7	
75 Ethyl methacrylate	69	9.080	9.081	-0.001	95	403458	250.0	252.0	
76 1,1,2-Trichloroethane	97	9.204	9.204	0.000	98	255387	250.0	234.6	
77 Tetrachloroethene	164	9.263	9.263	0.000	95	240770	250.0	204.6	
78 1,3-Dichloropropane	76	9.357	9.357	0.000	95	450071	250.0	234.8	
79 2-Hexanone	43	9.433	9.434	-0.001	98	219901	250.0	258.9	
81 Chlorodibromomethane	129	9.569	9.569	0.000	97	288355	250.0	233.8	
82 Ethylene Dibromide	107	9.680	9.681	-0.001	98	248614	250.0	242.2	
83 Chlorobenzene	112	10.169	10.169	0.000	93	891674	250.0	220.3	
84 1,1,1,2-Tetrachloroethane	131	10.263	10.263	0.000	96	321016	250.0	227.0	
85 Ethylbenzene	106	10.274	10.275	-0.001	97	489982	250.0	216.7	
86 m-Xylene & p-Xylene	106	10.404	10.404	0.000	98	593617	250.0	219.0	
88 o-Xylene	106	10.786	10.786	0.000	97	595248	250.0	222.4	
89 Styrene	104	10.810	10.810	0.000	93	1028598	250.0	223.9	
90 Bromoform	173	10.986	10.986	0.000	99	193176	250.0	245.1	
91 Isopropylbenzene	105	11.151	11.151	0.000	97	1559550	250.0	221.6	
94 Bromobenzene	156	11.463	11.463	0.000	93	386934	250.0	224.6	
93 1,1,2,2-Tetrachloroethane	83	11.474	11.475	-0.001	94	387966	250.0	248.2	
96 trans-1,4-Dichloro-2-buten	53	11.510	11.510	0.000	88	102623	250.0	263.0	
95 1,2,3-Trichloropropane	110	11.521	11.522	-0.001	94	109254	250.0	242.1	
97 N-Propylbenzene	120	11.569	11.569	-0.001	97	449739	250.0	218.0	
98 2-Chlorotoluene	126	11.657	11.657	0.000	99	379494	250.0	218.6	
99 1,3,5-Trimethylbenzene	105	11.757	11.757	0.000	97	1356863	250.0	218.4	
100 4-Chlorotoluene	126	11.780	11.780	0.000	98	403764	250.0	219.5	
101 tert-Butylbenzene	119	12.063	12.063	0.000	97	1187864	250.0	221.7	
103 1,2,4-Trimethylbenzene	105	12.127	12.127	0.000	98	1398592	250.0	222.6	
104 sec-Butylbenzene	105	12.286	12.286	0.000	98	1793855	250.0	220.0	
105 1,3-Dichlorobenzene	146	12.404	12.404	0.000	95	750720	250.0	223.6	
106 4-Isopropyltoluene	119	12.445	12.445	0.000	97	1578259	250.0	221.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
107 1,4-Dichlorobenzene	146	12.510	12.510	0.000	94	793938	250.0	222.4	
110 n-Butylbenzene	91	12.851	12.851	0.000	96	1411160	250.0	218.9	
111 1,2-Dichlorobenzene	146	12.863	12.863	0.000	90	716880	250.0	223.0	
112 1,2-Dibromo-3-Chloropropan	157	13.651	13.651	0.000	89	76310	250.0	251.9	
114 1,2,4-Trichlorobenzene	180	14.468	14.468	0.000	96	505983	250.0	228.1	
115 Hexachlorobutadiene	225	14.615	14.616	-0.001	96	279148	250.0	213.7	
116 Naphthalene	128	14.733	14.733	0.000	98	1248630	250.0	245.7	
117 1,2,3-Trichlorobenzene	180	14.951	14.951	0.000	96	475136	250.0	233.0	
S 129 Xylenes, Total	106				0		500.0	441.3	
S 130 1,2-Dichloroethene, Total	96				0		500.0	439.3	
S 145 Total BTEX	1				0			1094.5	
S 131 1,3-Dichloropropene, Total	1				0		500.0	478.6	

Reagents:

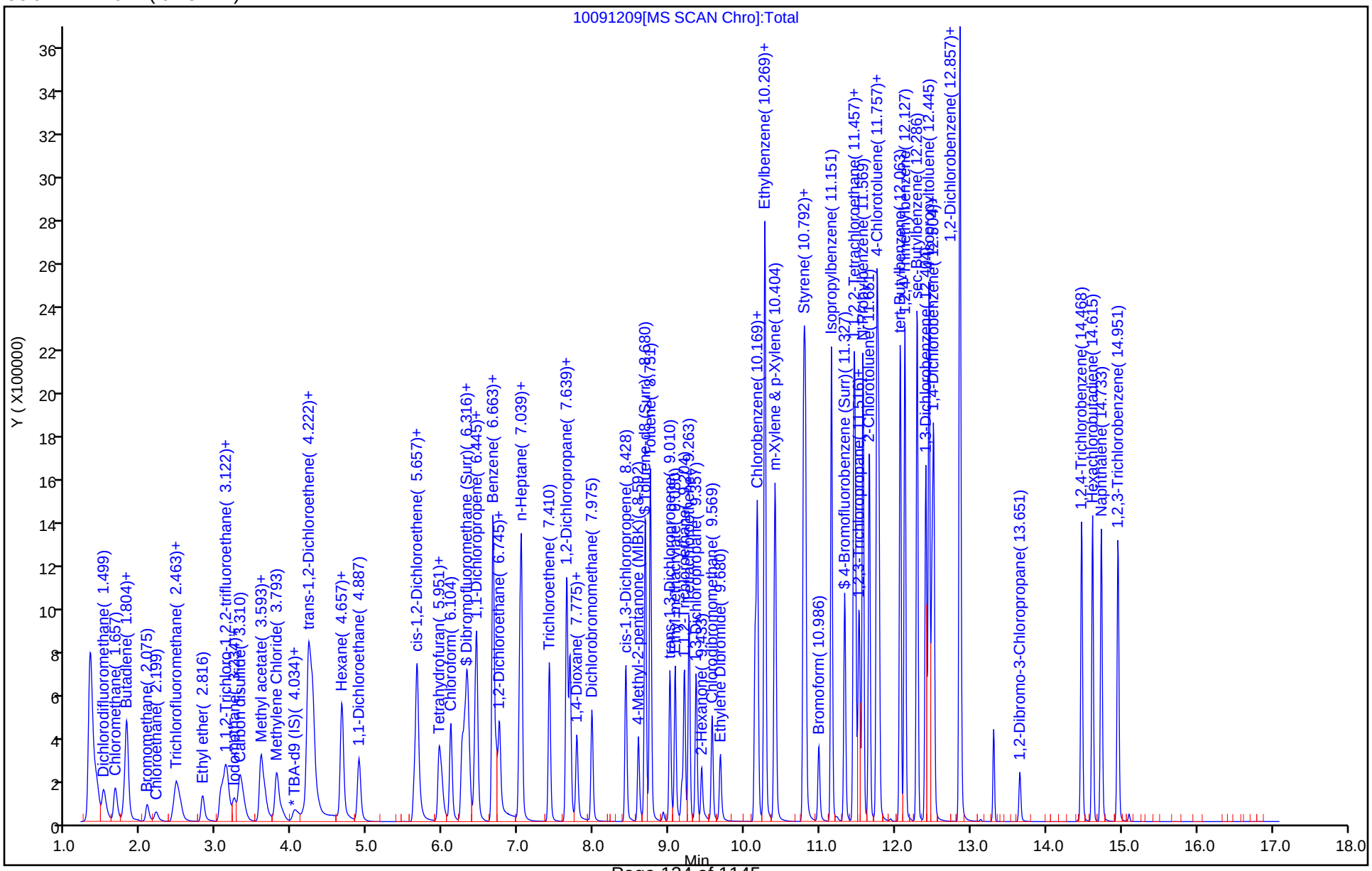
VOA8260INT_00086 Amount Added: 10.00 Units: uL
VOA8260SURR_00086 Amount Added: 10.00 Units: uL
VOA8260VOAPRI_00311 Amount Added: 10.00 Units: uL

Report Date: 13-Sep-2018 17:50:40 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP10\20180912-23596.b\10091209.d				
Injection Date:	12-Sep-2018 11:01:30	Instrument ID:	CHHP10	Operator ID:	Patrick Journet
Lims ID:	ic			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSVOA_CHHP10	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP10\20180912-23596.b\10091210.d
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 12-Sep-2018 11:27:30 ALS Bottle#: 1 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 180-0023596-010
Operator ID: Patrick Journet Instrument ID: CHHP10
Sublist: chrom-MSVOA_CHHP10*sub3

Method: \\ChromNA\Pittsburgh\ChromData\CHHP10\20180912-23596.b\MSVOA_CHHP10.m
Limit Group: VOA 8260C ICAL
Last Update: 13-Sep-2018 17:50:43 Calib Date: 12-Sep-2018 11:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP10\20180912-23596.b\10091211.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: journetp Date: 12-Sep-2018 13:58:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.034	4.046	-0.012	97	333318	5000.0	5000.0	
* 2 Fluorobenzene (IS)	96	7.016	7.016	0.000	99	624348	250.0	250.0	
* 3 Chlorobenzene-d5	119	10.145	10.139	0.006	84	157431	250.0	250.0	
* 4 1,4-Dichlorobenzene-d4	152	12.486	12.486	0.000	90	284460	250.0	250.0	
$ 5 Dibromofluoromethane (Surr	113	6.292	6.293	-0.001	93	669628	625.0	702.3	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.663	6.663	0.000	0	775238	625.0	672.9	
$ 7 Toluene-d8 (Surr)	98	8.686	8.681	0.005	93	2993767	625.0	677.9	
$ 8 4-Bromofluorobenzene (Surr	95	11.327	11.328	-0.001	89	1091930	625.0	699.4	
10 Dichlorodifluoromethane	85	1.510	1.511	0.000	99	933398	625.0	653.9	
11 Chloromethane	50	1.669	1.658	0.011	99	897206	625.0	628.2	
12 Vinyl chloride	62	1.799	1.787	0.012	98	933700	625.0	660.2	
13 Butadiene	39	1.816	1.810	0.006	98	861753	625.0	653.2	
14 Bromomethane	94	2.087	2.081	0.006	90	233029	625.0	624.4	
15 Chloroethane	64	2.204	2.205	-0.001	94	186512	625.0	599.3	
17 Dichlorofluoromethane	67	2.469	2.457	0.012	91	735285	625.0	731.3	
16 Trichlorofluoromethane	101	2.475	2.469	0.006	91	727721	625.0	743.5	
18 Ethyl ether	59	2.822	2.822	0.000	95	433529	625.0	749.9	
20 1,1-Dichloroethene	96	3.069	3.057	0.012	99	569465	625.0	714.3	
21 1,1,2-Trichloro-1,2,2-trif	101	3.146	3.140	0.006	74	587301	625.0	702.9	
22 Acetone	43	3.204	3.199	0.005	72	190111	625.0	656.8	
23 Iodomethane	142	3.246	3.234	0.012	93	913271	625.0	704.3	
24 Carbon disulfide	76	3.316	3.316	0.000	97	1969790	625.0	705.2	
26 3-Chloro-1-propene	76	3.593	3.593	0.000	88	430998	625.0	729.3	
28 Methyl acetate	43	3.640	3.646	-0.006	95	844279	1250.0	1281.6	
29 Methylene Chloride	84	3.804	3.804	0.000	99	682487	625.0	628.7	
32 2-Methyl-2-propanol	59	4.163	4.175	-0.012	95	880689	6250.0	7345.6	
31 Acrylonitrile	53	4.222	4.222	0.000	96	2369016	6250.0	6807.2	
30 trans-1,2-Dichloroethene	96	4.228	4.228	0.000	92	704303	625.0	699.4	
33 Methyl tert-butyl ether	73	4.275	4.269	0.006	94	2096604	625.0	698.7	
34 Hexane	57	4.663	4.657	0.006	99	1238294	625.0	659.2	
36 1,1-Dichloroethane	63	4.892	4.887	0.005	99	1318491	625.0	696.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
42 2,2-Dichloropropane	97	5.651	5.651	0.000	94	147805	625.0	673.1	
41 cis-1,2-Dichloroethene	96	5.663	5.657	0.006	81	815604	625.0	692.0	
43 2-Butanone (MEK)	43	5.698	5.698	0.000	100	337377	625.0	670.6	
46 Chlorobromomethane	128	5.957	5.951	0.006	87	368911	625.0	696.2	
48 Tetrahydrofuran	42	5.987	5.993	-0.006	86	445530	1250.0	1389.1	
49 Chloroform	83	6.104	6.104	0.000	98	1292194	625.0	691.3	
50 1,1,1-Trichloroethane	97	6.257	6.257	0.000	94	1071745	625.0	704.8	
52 Cyclohexane	56	6.328	6.322	0.006	97	1438058	625.0	706.8	
53 Carbon tetrachloride	117	6.434	6.428	0.006	83	1059938	625.0	711.4	
54 1,1-Dichloropropene	75	6.451	6.445	0.006	94	1137072	625.0	705.9	
55 Benzene	78	6.669	6.663	0.006	89	3300387	625.0	698.3	
51 Isobutyl alcohol	41	6.710	6.710	0.000	94	682990	15625	18123	
56 1,2-Dichloroethane	62	6.751	6.751	0.000	99	987049	625.0	686.8	
59 n-Heptane	43	7.045	7.040	0.005	86	1401683	625.0	680.3	
60 Trichloroethene	130	7.410	7.410	0.000	92	886283	625.0	718.3	
63 Methylcyclohexane	83	7.645	7.640	0.005	94	1655528	625.0	705.9	
64 1,2-Dichloropropane	63	7.686	7.687	-0.001	94	822559	625.0	704.5	
65 Dibromomethane	93	7.775	7.775	0.000	89	442353	625.0	709.3	
67 1,4-Dioxane	88	7.792	7.792	0.000	93	115158	12500	14468	
68 Dichlorobromomethane	83	7.975	7.975	0.000	98	1072377	625.0	723.1	
71 cis-1,3-Dichloropropene	75	8.428	8.428	0.000	97	1308957	625.0	741.3	
72 4-Methyl-2-pentanone (MIBK	43	8.592	8.592	0.000	98	786822	625.0	694.0	
73 Toluene	91	8.751	8.751	0.000	94	3792828	625.0	689.7	
74 trans-1,3-Dichloropropene	75	9.010	9.010	0.000	94	1222473	625.0	730.9	
75 Ethyl methacrylate	69	9.080	9.081	-0.001	94	1059924	625.0	731.2	
76 1,1,2-Trichloroethane	97	9.204	9.204	0.000	97	682174	625.0	691.9	
77 Tetrachloroethene	164	9.263	9.263	0.000	95	755795	625.0	709.2	
78 1,3-Dichloropropane	76	9.357	9.357	0.000	94	1207537	625.0	695.7	
79 2-Hexanone	43	9.433	9.434	-0.001	99	554246	625.0	720.6	
81 Chlorodibromomethane	129	9.569	9.569	0.000	98	800450	625.0	716.7	
82 Ethylene Dibromide	107	9.680	9.681	-0.001	99	655027	625.0	704.7	
83 Chlorobenzene	112	10.169	10.169	0.000	93	2498869	625.0	681.8	
84 1,1,1,2-Tetrachloroethane	131	10.269	10.263	0.006	97	911210	625.0	711.7	
85 Ethylbenzene	106	10.274	10.275	-0.001	97	1460879	625.0	713.4	
86 m-Xylene & p-Xylene	106	10.410	10.404	0.006	98	1729560	625.0	704.5	
88 o-Xylene	106	10.786	10.786	0.000	97	1714495	625.0	707.3	
89 Styrene	104	10.810	10.810	0.000	93	2977175	625.0	715.7	
90 Bromoform	173	10.986	10.986	0.000	98	531738	625.0	745.1	
91 Isopropylbenzene	105	11.157	11.151	0.006	97	4543507	625.0	712.9	
94 Bromobenzene	156	11.463	11.463	0.000	88	1063493	625.0	672.5	
93 1,1,2,2-Tetrachloroethane	83	11.474	11.475	-0.001	93	960607	625.0	678.6	
96 trans-1,4-Dichloro-2-buten	53	11.516	11.510	0.006	88	263484	625.0	735.6	
95 1,2,3-Trichloropropane	110	11.527	11.522	0.005	95	271035	625.0	654.2	
97 N-Propylbenzene	120	11.574	11.569	0.005	97	1282164	625.0	677.3	
98 2-Chlorotoluene	126	11.657	11.657	0.000	99	1072393	625.0	672.9	
99 1,3,5-Trimethylbenzene	105	11.757	11.757	0.000	98	3987159	625.0	699.3	
100 4-Chlorotoluene	126	11.780	11.780	0.000	97	1138899	625.0	674.7	
101 tert-Butylbenzene	119	12.068	12.063	0.005	96	3433294	625.0	698.3	
103 1,2,4-Trimethylbenzene	105	12.127	12.127	0.000	97	3974588	625.0	689.4	
104 sec-Butylbenzene	105	12.292	12.286	0.006	98	5156700	625.0	689.1	
105 1,3-Dichlorobenzene	146	12.410	12.404	0.006	94	2140481	625.0	694.5	
106 4-Isopropyltoluene	119	12.451	12.445	0.006	97	4570695	625.0	698.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
107 1,4-Dichlorobenzene	146	12.510	12.510	0.000	93	2218678	625.0	677.0	
110 n-Butylbenzene	91	12.857	12.851	0.006	96	4207764	625.0	711.0	
111 1,2-Dichlorobenzene	146	12.863	12.863	0.000	87	2023704	625.0	685.7	
112 1,2-Dibromo-3-Chloropropan	157	13.651	13.651	0.000	88	199948	625.0	719.0	
114 1,2,4-Trichlorobenzene	180	14.468	14.468	0.000	96	1436552	625.0	705.6	
115 Hexachlorobutadiene	225	14.615	14.616	-0.001	94	858833	625.0	716.4	
116 Naphthalene	128	14.733	14.733	0.000	98	3192300	625.0	684.4	
117 1,2,3-Trichlorobenzene	180	14.951	14.951	0.000	96	1320002	625.0	705.2	
S 130 1,2-Dichloroethene, Total	96				0		1250.0	1391.4	
S 129 Xylenes, Total	106				0		1250.0	1411.8	
S 131 1,3-Dichloropropene, Total	1				0		1250.0	1472.2	
S 145 Total BTEX	1				0			3513.2	

Reagents:

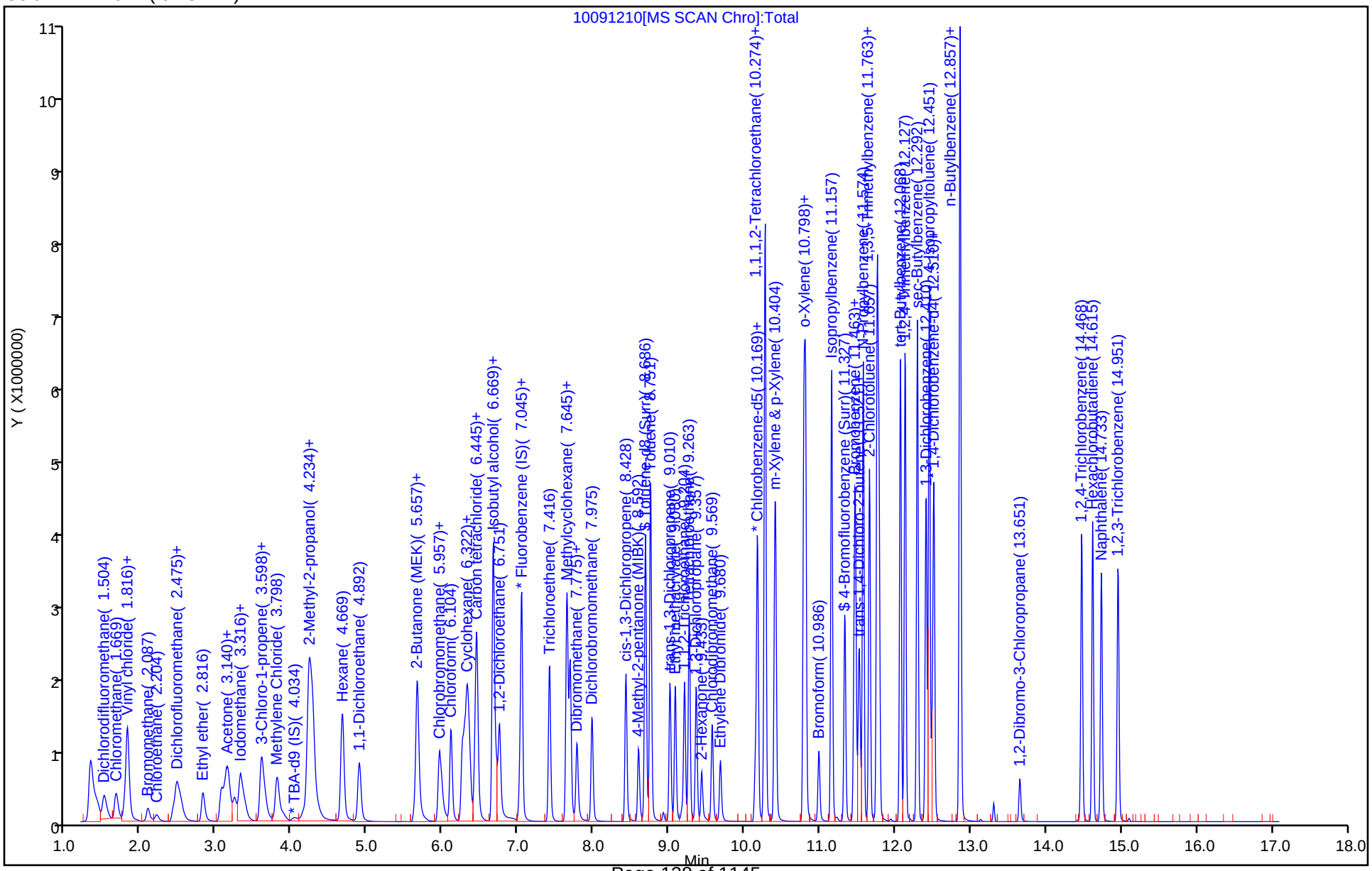
VOA8260INT_00086 Amount Added: 10.00 Units: uL
VOA8260SURR_00086 Amount Added: 25.00 Units: uL
VOA8260VOAPRI_00311 Amount Added: 25.00 Units: uL

Report Date: 13-Sep-2018 17:50:44 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP10\20180912-23596.b\10091210.d				
Injection Date:	12-Sep-2018 11:27:30	Instrument ID:	CHHP10	Operator ID:	Patrick Journet
Lims ID:	ic			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSVOA_CHHP10	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP10\20180912-23596.b\10091211.d
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 12-Sep-2018 11:52:30 ALS Bottle#: 1 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 180-0023596-011
Operator ID: Patrick Journet Instrument ID: CHHP10
Sublist: chrom-MSVOA_CHHP10*sub3

Method: \\ChromNA\Pittsburgh\ChromData\CHHP10\20180912-23596.b\MSVOA_CHHP10.m
Limit Group: VOA 8260C ICAL
Last Update: 13-Sep-2018 17:50:47 Calib Date: 12-Sep-2018 11:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP10\20180912-23596.b\10091211.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: journetp Date: 12-Sep-2018 13:48:16

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.063	4.046	0.017	97	372449	5000.0	5000.0	
* 2 Fluorobenzene (IS)	96	7.022	7.016	0.006	99	636000	250.0	250.0	
* 3 Chlorobenzene-d5	119	10.145	10.139	0.006	83	160054	250.0	250.0	
* 4 1,4-Dichlorobenzene-d4	152	12.486	12.486	0.000	89	256806	250.0	250.0	a
$ 5 Dibromofluoromethane (Surr	113	6.287	6.293	-0.006	93	1460185	1250.0	1503.3	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.663	6.663	0.000	0	1693822	1250.0	1443.4	
$ 7 Toluene-d8 (Surr)	98	8.687	8.681	0.005	93	6656628	1250.0	1482.6	
$ 8 4-Bromofluorobenzene (Surr	95	11.333	11.328	0.005	91	2231445	1250.0	1405.8	
10 Dichlorodifluoromethane	85	1.499	1.511	-0.011	99	1999149	1250.0	1374.8	
11 Chloromethane	50	1.663	1.658	0.005	99	1823408	1250.0	1253.4	
12 Vinyl chloride	62	1.793	1.787	0.006	98	2026453	1250.0	1406.6	
13 Butadiene	39	1.805	1.810	-0.005	98	1951793	1250.0	1452.3	
14 Bromomethane	94	2.081	2.081	0.000	90	476655	1250.0	1253.8	
15 Chloroethane	64	2.193	2.205	-0.012	95	406833	1250.0	1283.3	
17 Dichlorofluoromethane	67	2.463	2.457	0.006	89	1210488	1250.0	1181.8	
16 Trichlorofluoromethane	101	2.463	2.469	-0.006	90	1168618	1250.0	1172.1	
18 Ethyl ether	59	2.810	2.822	-0.012	92	570591	1250.0	968.9	
20 1,1-Dichloroethene	96	3.093	3.057	0.036	97	1246626	1250.0	1535.1	
21 1,1,2-Trichloro-1,2,2-trif	101	3.134	3.140	-0.006	72	1260192	1250.0	1480.5	
22 Acetone	43	3.199	3.199	0.000	62	365455	1250.0	1257.5	
23 Iodomethane	142	3.228	3.234	-0.006	93	1936888	1250.0	1466.3	
24 Carbon disulfide	76	3.305	3.316	-0.012	99	4306135	1250.0	1513.3	
26 3-Chloro-1-propene	76	3.581	3.593	-0.012	88	921843	1250.0	1531.2	
28 Methyl acetate	43	3.640	3.646	-0.006	97	1752306	2500.0	2611.1	
29 Methylene Chloride	84	3.793	3.804	-0.011	99	1432713	1250.0	1295.7	
32 2-Methyl-2-propanol	59	4.199	4.175	0.024	96	1898897	12500	14174	
31 Acrylonitrile	53	4.228	4.222	0.006	98	5564639	12500	15697	
30 trans-1,2-Dichloroethene	96	4.216	4.228	-0.012	93	1511268	1250.0	1473.3	
33 Methyl tert-butyl ether	73	4.275	4.269	0.006	92	4486084	1250.0	1467.7	
34 Hexane	57	4.651	4.657	-0.006	99	2663580	1250.0	1391.9	
36 1,1-Dichloroethane	63	4.887	4.887	0.000	99	2796407	1250.0	1449.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
42 2,2-Dichloropropane	97	5.651	5.651	0.000	94	280008	1250.0	1251.8	
41 cis-1,2-Dichloroethene	96	5.657	5.657	0.000	81	1753797	1250.0	1460.7	
43 2-Butanone (MEK)	43	5.698	5.698	0.000	100	725202	1250.0	1415.1	
46 Chlorobromomethane	128	5.946	5.951	-0.005	84	801620	1250.0	1485.0	
48 Tetrahydrofuran	42	5.987	5.993	-0.006	86	1017280	2500.0	3113.7	
49 Chloroform	83	6.104	6.104	0.000	97	2784157	1250.0	1462.2	
50 1,1,1-Trichloroethane	97	6.251	6.257	-0.006	95	2287820	1250.0	1477.0	
52 Cyclohexane	56	6.328	6.322	0.006	95	3081043	1250.0	1486.6	
53 Carbon tetrachloride	117	6.428	6.428	0.000	85	2347612	1250.0	1546.9	
54 1,1-Dichloropropene	75	6.445	6.445	0.000	94	2500959	1250.0	1524.3	
55 Benzene	78	6.669	6.663	0.006	88	7140819	1250.0	1483.1	
51 Isobutyl alcohol	41	6.716	6.710	0.006	95	1385352	31250	36086	
56 1,2-Dichloroethane	62	6.751	6.751	0.000	100	2058729	1250.0	1406.2	
59 n-Heptane	43	7.040	7.040	0.000	83	2992031	1250.0	1425.6	
60 Trichloroethene	130	7.416	7.410	0.006	92	1938712	1250.0	1542.4	
63 Methylcyclohexane	83	7.645	7.640	0.005	94	3567709	1250.0	1493.5	
64 1,2-Dichloropropane	63	7.687	7.687	0.000	95	1754787	1250.0	1475.5	
65 Dibromomethane	93	7.775	7.775	0.000	88	957615	1250.0	1507.4	
67 1,4-Dioxane	88	7.787	7.792	-0.005	92	235615	25000	28848	
68 Dichlorobromomethane	83	7.975	7.975	0.000	98	2306591	1250.0	1526.9	
71 cis-1,3-Dichloropropene	75	8.428	8.428	0.000	98	2782362	1250.0	1546.8	
72 4-Methyl-2-pentanone (MIBK	43	8.598	8.592	0.006	98	1748175	1250.0	1516.6	
73 Toluene	91	8.757	8.751	0.006	94	8244374	1250.0	1474.6	
74 trans-1,3-Dichloropropene	75	9.010	9.010	0.000	93	2606954	1250.0	1533.2	
75 Ethyl methacrylate	69	9.086	9.081	0.005	94	2324041	1250.0	1577.0	
76 1,1,2-Trichloroethane	97	9.204	9.204	0.000	97	1477076	1250.0	1473.6	
77 Tetrachloroethene	164	9.269	9.263	0.006	94	1709891	1250.0	1578.3	
78 1,3-Dichloropropane	76	9.363	9.357	0.006	95	2546260	1250.0	1443.0	
79 2-Hexanone	43	9.434	9.434	0.000	98	1268505	1250.0	1622.3	
81 Chlorodibromomethane	129	9.575	9.569	0.006	97	1763654	1250.0	1553.4	
82 Ethylene Dibromide	107	9.681	9.681	0.000	98	1438820	1250.0	1522.6	
83 Chlorobenzene	112	10.175	10.169	0.006	93	5221070	1250.0	1401.1	
84 1,1,1,2-Tetrachloroethane	131	10.269	10.263	0.006	97	1905260	1250.0	1463.7	
85 Ethylbenzene	106	10.281	10.275	0.006	97	3234350	1250.0	1553.5	
86 m-Xylene & p-Xylene	106	10.410	10.404	0.006	97	3647256	1250.0	1461.3	
88 o-Xylene	106	10.792	10.786	0.006	96	3593517	1250.0	1458.2	
89 Styrene	104	10.810	10.810	0.000	96	6332429	1250.0	1497.3	
90 Bromoform	173	10.986	10.986	0.000	98	1136766	1250.0	1566.7	
91 Isopropylbenzene	105	11.157	11.151	0.006	97	9202093	1250.0	1420.3	
94 Bromobenzene	156	11.463	11.463	0.000	81	2217099	1250.0	1553.0	
93 1,1,2,2-Tetrachloroethane	83	11.475	11.475	0.000	91	2015365	1250.0	1400.4	
96 trans-1,4-Dichloro-2-buten	53	11.516	11.510	0.006	87	572923	1250.0	1771.8	
95 1,2,3-Trichloropropane	110	11.527	11.522	0.005	94	570378	1250.0	1525.1	
97 N-Propylbenzene	120	11.580	11.569	0.011	97	2564467	1250.0	1500.5	
98 2-Chlorotoluene	126	11.663	11.657	0.006	99	2109626	1250.0	1466.3	
99 1,3,5-Trimethylbenzene	105	11.763	11.757	0.006	97	7682731	1250.0	1492.6	
100 4-Chlorotoluene	126	11.786	11.780	0.006	97	2254380	1250.0	1479.4	
101 tert-Butylbenzene	119	12.069	12.063	0.006	96	6491389	1250.0	1462.4	
103 1,2,4-Trimethylbenzene	105	12.133	12.127	0.006	98	7483629	1250.0	1437.7	
104 sec-Butylbenzene	105	12.298	12.286	0.012	98	9641519	1250.0	1427.2	
105 1,3-Dichlorobenzene	146	12.410	12.404	0.006	94	4122211	1250.0	1481.4	
106 4-Isopropyltoluene	119	12.451	12.445	0.006	97	8330682	1250.0	1410.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
107 1,4-Dichlorobenzene	146	12.516	12.510	0.006	92	4191809	1250.0	1416.8	
110 n-Butylbenzene	91	12.857	12.851	0.006	96	7369849	1250.0	1379.5	
111 1,2-Dichlorobenzene	146	12.869	12.863	0.006	92	3669984	1250.0	1377.4	
112 1,2-Dibromo-3-Chloropropan	157	13.651	13.651	0.000	87	396812	1250.0	1580.6	
114 1,2,4-Trichlorobenzene	180	14.474	14.468	0.006	96	2395553	1250.0	1303.3	
115 Hexachlorobutadiene	225	14.621	14.616	0.005	94	1398942	1250.0	1292.7	
116 Naphthalene	128	14.733	14.733	0.000	98	5555911	1250.0	1319.4	
117 1,2,3-Trichlorobenzene	180	14.957	14.951	0.006	96	2144656	1250.0	1269.1	
S 129 Xylenes, Total	106				0		2500.0	2919.5	
S 130 1,2-Dichloroethene, Total	96				0		2500.0	2934.0	
S 145 Total BTEX	1				0			7430.8	
S 131 1,3-Dichloropropene, Total	1				0		2500.0	3080.0	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

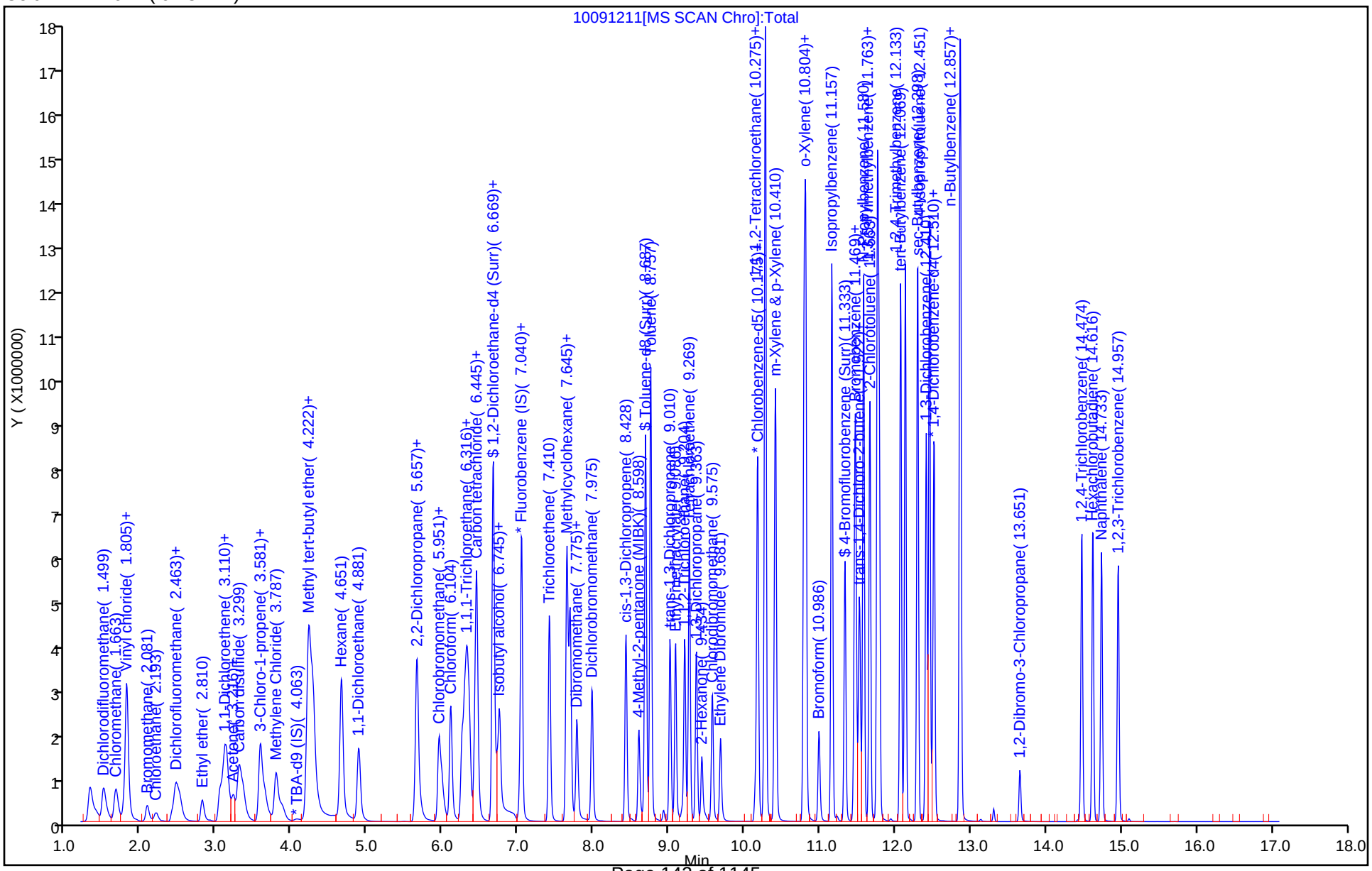
VOA8260INT_00086	Amount Added: 10.00	Units: uL
VOA8260SURR_00086	Amount Added: 50.00	Units: uL
VOA8260VOAPRI_00311	Amount Added: 50.00	Units: uL

Report Date: 13-Sep-2018 17:50:48 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP10\20180912-23596.b\10091211.d				
Injection Date:	12-Sep-2018 11:52:30	Instrument ID:	CHHP10	Operator ID:	Patrick Journet
Lims ID:	ic			Worklist Smp#:	11
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSVOA_CHHP10	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

TestAmerica Pittsburgh

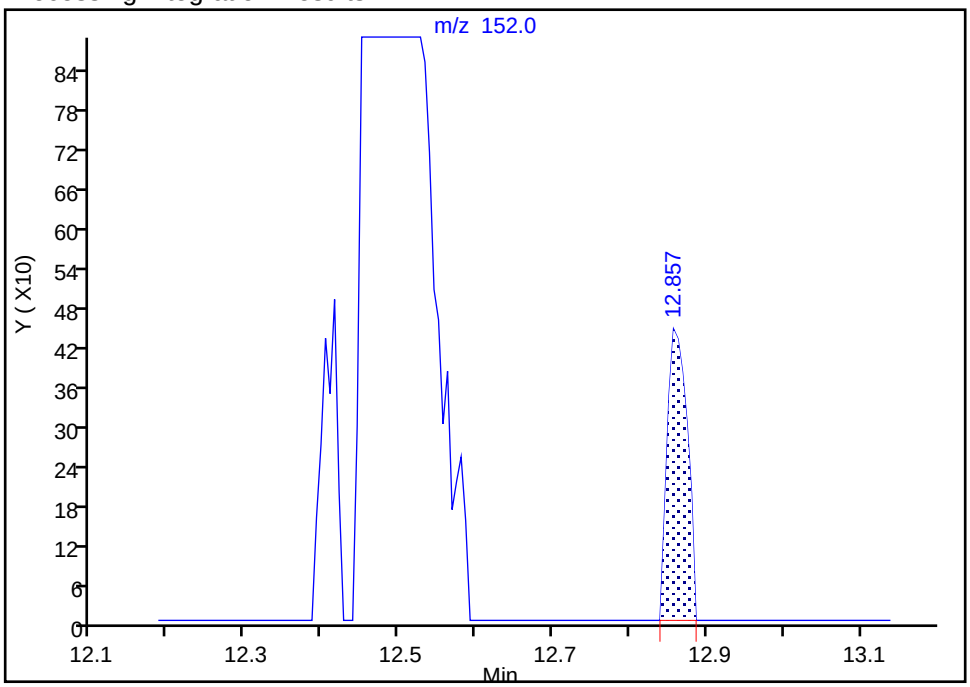
Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP10\20180912-23596.b\10091211.d				
Injection Date:	12-Sep-2018 11:52:30	Instrument ID:	CHHP10		
Lims ID:	ic				
Client ID:					
Operator ID:	Patrick Journet	ALS Bottle#:	1	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP10	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

* 4 1,4-Dichlorobenzene-d4, CAS: 3855-82-1

Signal: 1

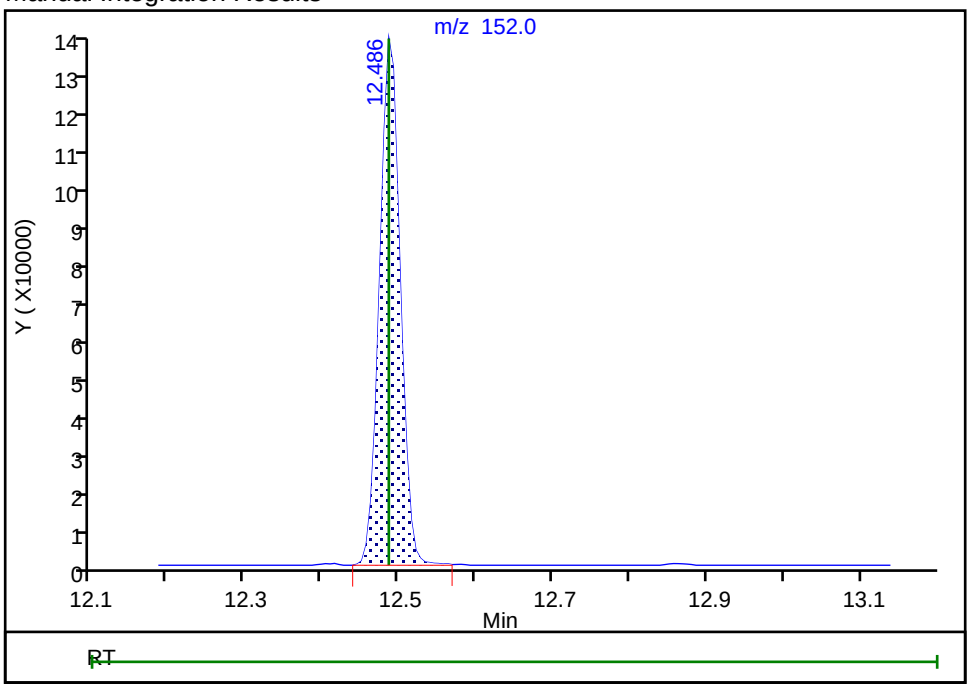
Processing Integration Results

RT: 12.86
Area: 791
Amount: 250.0000
Amount Units: ng



Manual Integration Results

RT: 12.49
Area: 256806
Amount: 250.0000
Amount Units: ng



Reviewer: journetp, 13-Sep-2018 08:58:38

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1 Analy Batch No.: 255712

SDG No.:

Instrument ID: CHHP11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/01/2018 12:02 Calibration End Date: 09/01/2018 15:12 Calibration ID: 38447

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-255712/3	11090103.D
Level 2	IC 180-255712/4	11090104.D
Level 3	ICIS 180-255712/5	11090105.D
Level 4	IC 180-255712/6	11090106.D
Level 5	IC 180-255712/7	11090107.D
Level 6	IC 180-255712/8	11090108.D
Level 7	IC 180-255712/9	11090109.D
Level 8	IC 180-255712/10	11090110.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.4289 0.3567	0.3928 0.3835	0.3777 0.3713	0.3313	0.3573	Ave		0.3749			0.1000	7.7		20.0			
Chloromethane	0.4232 0.2842	0.3065 0.3084	0.2998 0.3058	0.2628	0.2817	Lin2	0.6881	0.2834			0.1000				0.9960		0.9900
Vinyl chloride	0.4135 0.3307	0.3604 0.3542	0.3475 0.3453	0.3090	0.3306	Ave		0.3489			0.1000	8.8		20.0			
1,3-Butadiene	0.3951 0.2940	0.3378 0.3141	0.3114 0.3046	0.2679	0.2930	Ave		0.3147			0.0100	12.1		20.0			
Bromomethane	0.2808 0.1633	0.1946 0.1921	0.1701 0.1822	0.1903	0.1870	Lin2	0.5194	0.1757			0.0500				0.9960		0.9900
Chloroethane	0.2465 0.1924	0.1953 0.2038	0.1876 0.1946	0.1797	0.1897	Ave		0.1987			0.0500	10.3		20.0			
Trichlorofluoromethane	0.5126 0.4744	0.4641 0.5121	0.4878 0.5000	0.4338	0.4739	Ave		0.4823			0.1000	5.5		20.0			
Dichlorofluoromethane	0.6812 0.4794	0.5165 0.5170	0.5026 0.5097	0.4561	0.4790	Ave		0.5177			0.0100	13.4		20.0			
Ethyl ether	0.1703 0.1527	0.1365 0.1546	0.1487 0.1405	0.1346	0.1307	Ave		0.1461			0.0100	9.0		20.0			
1,1-Dichloroethene	0.3100 0.2530	0.2668 0.2722	0.2627 0.2618	0.2339	0.2515	Ave		0.2640			0.1000	8.3		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.3317 0.2755	0.2944 0.2969	0.2872 0.2870	0.2551	0.2726	Ave		0.2876			0.1000	7.8		20.0			
Acetone	0.0338 0.0332	0.0315 0.0304	0.0311 0.0266	0.0275	0.0264	Ave		0.0301		*	0.0500	9.7		20.0			
Iodomethane	0.5135 0.4491	0.4592 0.4799	0.4613 0.4682	0.4198	0.4419	Ave		0.4616			0.0100	6.0		20.0			
Carbon disulfide	0.8538 0.7648	0.8197 0.8159	0.8115 0.8016	0.7167	0.7692	Ave		0.7941			0.1000	5.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1 Analy Batch No.: 255712

SDG No.:

Instrument ID: CHHP11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/01/2018 12:02 Calibration End Date: 09/01/2018 15:12 Calibration ID: 38447

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Allyl chloride	0.2151 0.2046	0.1964 0.2255	0.1923 0.2127	0.1797	0.1965	Ave		0.2029			0.0100	7.2		20.0			
Methyl acetate	0.0785 0.0724	0.0596 0.0688	0.0679 0.0585	0.0603	0.0572	Ave		0.0654		*	0.1000	11.7		20.0			
Methylene Chloride	0.7326 0.2429	0.3151 0.2532	0.2797 0.2394	0.2454	0.2411	Lin2	2.5295	0.2244			0.1000				0.9980		0.9900
tert-Butyl alcohol	1.8010 1.0776	1.1396 1.0552	1.1017 1.0505	1.1353	1.1890	Qua	13.842	1.1636	-0.000050		0.0100				0.9990		0.9900
Acrylonitrile	0.0382 0.0366	0.0298 0.0351	0.0336 0.0304	0.0314	0.0288	Ave		0.0330			0.0100	10.4		20.0			
trans-1,2-Dichloroethene	0.3382 0.2858	0.2998 0.3081	0.2948 0.2969	0.2691	0.2838	Ave		0.2971			0.1000	6.9		20.0			
Methyl tert-butyl ether	0.4933 0.5002	0.4198 0.4988	0.4795 0.4471	0.4411	0.4183	Ave		0.4623			0.1000	7.5		20.0			
Hexane	0.5458 0.3959	0.4383 0.4319	0.4236 0.4088	0.3718	0.3966	Ave		0.4266			0.0100	12.4		20.0			
1,1-Dichloroethane	0.4900 0.4280	0.4428 0.4622	0.4412 0.4430	0.4085	0.4301	Ave		0.4432			0.2000	5.5		20.0			
cis-1,2-Dichloroethene	0.3261 0.2888	0.2909 0.3094	0.2939 0.2965	0.2768	0.2856	Ave		0.2960			0.1000	5.2		20.0			
2,2-Dichloropropane	0.0985 0.0796	0.0848 0.0856	0.0867 0.0851	0.0757	0.0789	Ave		0.0844			0.0100	8.2		20.0			
2-Butanone (MEK)	0.0268 0.0513	0.0428 0.0471	0.0464 +++++	0.0418	0.0395	Qua	-0.094	0.0395	0.0000243	*	0.0500				0.9900		0.9900
Chlorobromomethane	0.1221 0.1164	0.1080 0.1212	0.1150 0.1113	0.1072	0.1055	Ave		0.1133			0.0100	5.6		20.0			
Tetrahydrofuran	0.0472 0.0333	0.0291 0.0312	0.0314 +++++	0.0276	0.0251	Qua	0.3314	0.0216	0.0000247		0.0100				0.9900		0.9900
Chloroform	0.5177 0.4434	0.4584 0.4765	0.4558 0.4552	0.4320	0.4407	Ave		0.4600			0.2000	5.9		20.0			
1,1,1-Trichloroethane	0.5399 0.4570	0.4736 0.4941	0.4696 0.4774	0.4321	0.4584	Ave		0.4753			0.1000	6.7		20.0			
Cyclohexane	0.5625 0.4590	0.4939 0.4970	0.4851 0.4735	0.4305	0.4587	Ave		0.4825			0.1000	8.1		20.0			
Carbon tetrachloride	0.4813 0.4252	0.4414 0.4591	0.4318 0.4405	0.3945	0.4243	Ave		0.4373			0.1000	5.9		20.0			
1,1-Dichloropropene	0.4518 0.3782	0.4015 0.4101	0.3934 0.3903	0.3584	0.3796	Ave		0.3954			0.0100	7.0		20.0			
Isobutyl alcohol	0.0056 0.0046	0.0035 0.0041	0.0040 0.0033	0.0036	0.0033	Ave		0.0040		*	0.0100	19.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1 Analy Batch No.: 255712

SDG No.:

Instrument ID: CHHP11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/01/2018 12:02 Calibration End Date: 09/01/2018 15:12 Calibration ID: 38447

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Benzene	1.1564 0.9879	1.0203 1.0629	1.0168 1.0148	0.9447	0.9877	Ave		1.0239			0.5000	6.2		20.0			
1,2-Dichloroethane	0.2687 0.2555	0.2339 0.2605	0.2497 0.2406	0.2353	0.2284	Ave		0.2466			0.1000	5.8		20.0			
n-Heptane	0.5079 0.4125	0.4485 0.4457	0.4349 0.4239	0.3889	0.4086	Ave		0.4339			0.0100	8.3		20.0			
Trichloroethene	0.3637 0.3184	0.3290 0.3471	0.3262 0.3319	0.3031	0.3214	Ave		0.3301			0.2000	5.6		20.0			
Methylcyclohexane	0.6123 0.5254	0.5609 0.5656	0.5419 0.5409	0.4845	0.5187	Ave		0.5438			0.1000	6.9		20.0			
1,2-Dichloropropane	0.2545 0.2272	0.2243 0.2412	0.2290 0.2284	0.2184	0.2191	Ave		0.2303			0.1000	5.2		20.0			
Dibromomethane	0.1105 0.1077	0.0950 0.1092	0.1038 0.0991	0.0987	0.0950	Ave		0.1024			0.0100	6.2		20.0			
1,4-Dioxane	0.0016 0.0013	0.0011 0.0012	0.0013 +++++	0.0012	0.0011	Ave		0.0013		*	0.0100	14.3		20.0			
Dichlorobromomethane	0.3409 0.3193	0.2991 0.3346	0.3105 0.3138	0.3027	0.3005	Ave		0.3152			0.2000	5.0		20.0			
cis-1,3-Dichloropropene	0.3878 0.3700	0.3447 0.3883	0.3597 0.3611	0.3483	0.3466	Ave		0.3633			0.2000	4.8		20.0			
4-Methyl-2-pentanone (MIBK)	0.2535 0.5287	0.4159 0.4894	0.4713 +++++	0.4315	0.3989	Qua	-1.349	0.3984	0.0002822		0.1000				0.9900		0.9900
Toluene	5.7993 4.6671	5.0289 4.9227	4.8330 4.7893	4.6524	4.8009	Ave		4.9367			0.4000	7.5		20.0			
trans-1,3-Dichloropropene	1.2972 1.2318	1.1407 1.2432	1.1853 1.1475	1.1468	1.1195	Ave		1.1890			0.1000	5.2		20.0			
Ethyl methacrylate	1.0218 0.9111	0.7980 0.8815	0.8385 0.7779	0.8205	0.7659	Ave		0.8519			0.0100	9.9		20.0			
1,1,2-Trichloroethane	0.7561 0.6534	0.5974 0.6468	0.6367 0.5957	0.6141	0.5860	Ave		0.6358			0.1000	8.6		20.0			
Tetrachloroethene	1.3959 1.1608	1.2421 1.2469	1.1833 1.2082	1.1242	1.1798	Ave		1.2177			0.2000	6.8		20.0			
1,3-Dichloropropane	1.2211 1.1126	1.0286 1.1092	1.0796 1.0150	1.0399	0.9930	Ave		1.0749			0.0100	6.8		20.0			
2-Hexanone	0.1812 0.3603	0.2874 0.3378	0.3153 +++++	0.3056	0.2730	Lin2	-3.803	0.3417			0.1000				0.9900		0.9900
Chlorodibromomethane	1.0176 0.9134	0.8274 0.9155	0.8659 0.8428	0.8452	0.8206	Lin2	0.7677	0.8525			0.1000				0.9970		0.9900
1,2-Dibromoethane	0.6709 0.6217	0.5523 0.6146	0.5939 0.5564	0.5712	0.5405	Ave		0.5902			0.1000	7.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1 Analy Batch No.: 255712

SDG No.:

Instrument ID: CHHP11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/01/2018 12:02 Calibration End Date: 09/01/2018 15:12 Calibration ID: 38447

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Chlorobenzene	3.7663 3.0517	3.2278 3.2028	3.0884 3.0970	3.0277	3.0958	Ave		3.1947			0.5000	7.5		20.0			
1,1,1,2-Tetrachloroethane	1.4055 1.1515	1.1558 1.1806	1.1379 1.1450	1.1226	1.1232	Ave		1.1778			0.0100	8.0		20.0			
Ethylbenzene	2.1444 1.7739	1.8924 1.8891	1.8056 1.8334	1.7572	1.8327	Ave		1.8661			0.1000	6.6		20.0			
m-Xylene & p-Xylene	2.7397 2.1742	2.3606 2.3200	2.2116 2.2554	2.1723	2.2450	Ave		2.3098			0.1000	8.0		20.0			
o-Xylene	2.6203 2.1080	2.2253 2.2192	2.1296 2.1610	2.0856	2.1418	Ave		2.2113			0.3000	7.8		20.0			
Styrene	3.8784 3.3161	3.4385 3.4802	3.2884 3.3571	3.2965	3.3460	Ave		3.4251			0.3000	5.7		20.0			
Bromoform	0.6102 0.5483	0.4525 0.5311	0.4907 0.4860	0.4791	0.4626	Ave		0.5076			0.1000	10.4		20.0			
Isopropylbenzene	7.0730 5.7451	6.3444 6.0842	6.0028 5.9390	5.7901	6.0459	Ave		6.1281			0.1000	6.9		20.0			
1,1,2,2-Tetrachloroethane	0.9707 0.7548	0.6512 0.7186	0.7065 0.6377	0.6587	0.6281	Ave		0.7158			0.3000	15.6		20.0			
Bromobenzene	1.0240 0.7756	0.7677 0.7949	0.7943 0.7765	0.7666	0.7871	Ave		0.8108			0.0100	10.7		20.0			
trans-1,4-Dichloro-2-butene	0.1412 0.1075	0.0898 0.1024	0.0979 0.0911	0.0973	0.0934	Ave		0.1026			0.0100	16.2		20.0			
1,2,3-Trichloropropane	0.1879 0.1410	0.1262 0.1325	0.1373 0.1190	0.1288	0.1233	Ave		0.1370			0.0100	15.9		20.0			
N-Propylbenzene	1.2614 0.9835	1.0711 1.0433	1.0467 1.0370	0.9949	1.0770	Ave		1.0644			0.0100	8.1		20.0			
2-Chlorotoluene	1.0439 0.8023	0.8597 0.8393	0.8493 0.8316	0.8180	0.8692	Ave		0.8642			0.0100	8.8		20.0			
1,3,5-Trimethylbenzene	3.7219 2.8536	3.1621 2.9727	3.0642 2.9568	2.9229	3.1108	Ave		3.0956			0.0100	8.8		20.0			
4-Chlorotoluene	1.1176 0.8198	0.8759 0.8626	0.8556 0.8552	0.8355	0.8772	Ave		0.8874			0.0100	10.7		20.0			
tert-Butylbenzene	3.4312 2.6476	2.9120 2.7686	2.8503 2.7635	2.7051	2.9015	Ave		2.8725			0.0100	8.5		20.0			
1,2,4-Trimethylbenzene	3.7817 2.8489	3.1287 2.9595	3.0251 2.9363	2.9535	3.0992	Ave		3.0916			0.0100	9.5		20.0			
sec-Butylbenzene	5.0329 3.8299	4.2620 3.9940	4.1490 3.9628	3.9386	4.2044	Ave		4.1717			0.0100	9.1		20.0			
1,3-Dichlorobenzene	2.2812 1.5756	1.6749 1.6421	1.6334 1.6213	1.5986	1.6759	Ave		1.7129			0.6000	13.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1 Analy Batch No.: 255712

SDG No.:

Instrument ID: CHHP11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/01/2018 12:02 Calibration End Date: 09/01/2018 15:12 Calibration ID: 38447

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
4-Isopropyltoluene	4.4352 3.3969	3.7832 3.5481	3.6313 3.5381	3.4979	3.7143	Ave		3.6931			0.0100	8.8		20.0			
1,4-Dichlorobenzene	2.2476 1.5521	1.6507 1.6094	1.6053 1.5781	1.5791	1.6338	Ave		1.6820			0.5000	13.7		20.0			
n-Butylbenzene	4.0265 2.9142	3.3538 3.0664	3.1489 3.0543	3.0524	3.2601	Ave		3.2346			0.0100	10.7		20.0			
1,2-Dichlorobenzene	2.0255 1.4017	1.4364 1.4216	1.4468 1.3933	1.4108	1.4344	Ave		1.4963			0.4000	14.3		20.0			
1,2-Dibromo-3-Chloropropane	0.1374 0.1047	0.0843 0.0974	0.0958 0.0851	0.0901	0.0842	Ave		0.0974			0.0500	18.2		20.0			
1,2,4-Trichlorobenzene	1.7808 1.1366	1.1939 1.1518	1.1941 1.1353	1.1416	1.1599	Ave		1.2368			0.2000	17.9		20.0			
Hexachlorobutadiene	1.1310 0.7877	0.8823 0.8205	0.8553 0.8378	0.8055	0.8631	Ave		0.8729			0.0100	12.5		20.0			
Naphthalene	2.9841 1.6685	1.5418 1.5823	1.6973 1.4567	1.5491	1.5042	Lin2	7.3743	1.4733			0.0100				0.9930		0.9900
1,2,3-Trichlorobenzene	1.4675 0.9698	0.9641 0.9549	1.0177 0.9202	0.9516	0.9543	Ave		1.0250			0.0100	17.6		20.0			
Dibromofluoromethane (Surr)	0.2614 0.2373	0.2329 0.2444	0.2450 0.2329	0.2160	0.2271	Ave		0.2371				5.7		20.0			
1,2-Dichloroethane-d4 (Surr)	0.2384 0.2160	0.2006 0.2171	0.2183 0.1974	0.1914	0.1907	Ave		0.2087				7.9		20.0			
Toluene-d8 (Surr)	4.8836 4.0551	4.2884 4.1119	4.2518 4.0037	3.8055	4.0774	Ave		4.1847				7.6		20.0			
4-Bromofluorobenzene (Surr)	1.6713 1.4123	1.4615 1.4422	1.4416 1.3807	1.3180	1.3722	Ave		1.4375				7.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1 Analy Batch No.: 255712

SDG No.:

Instrument ID: CHHP11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/01/2018 12:02 Calibration End Date: 09/01/2018 15:12 Calibration ID: 38447

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-255712/3	11090103.D
Level 2	IC 180-255712/4	11090104.D
Level 3	ICIS 180-255712/5	11090105.D
Level 4	IC 180-255712/6	11090106.D
Level 5	IC 180-255712/7	11090107.D
Level 6	IC 180-255712/8	11090108.D
Level 7	IC 180-255712/9	11090109.D
Level 8	IC 180-255712/10	11090110.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	44058 1335421	209388 1527983	386017 1810300	506698	727469	5.00 175	25.0 200	50.0 250	75.0	100
Chloromethane	FB	Lin2	43469 1063888	163397 1228612	306341 1490844	401993	573401	5.00 175	25.0 200	50.0 250	75.0	100
Vinyl chloride	FB	Ave	42475 1238003	192108 1411267	355093 1683610	472599	673122	5.00 175	25.0 200	50.0 250	75.0	100
1,3-Butadiene	FB	Ave	40581 1100877	180075 1251541	318244 1485305	409713	596477	5.00 175	25.0 200	50.0 250	75.0	100
Bromomethane	FB	Lin2	28837 611419	103739 765552	173838 888323	291142	380784	5.00 175	25.0 200	50.0 250	75.0	100
Chloroethane	FB	Ave	25321 720434	104088 811964	191674 948548	274934	386164	5.00 175	25.0 200	50.0 250	75.0	100
Trichlorofluoromethane	FB	Ave	52655 1775971	247381 2040272	498514 2437950	663448	964762	5.00 175	25.0 200	50.0 250	75.0	100
Dichlorofluoromethane	FB	Ave	69973 1794715	275323 2060076	513590 2485218	697568	975108	5.00 175	25.0 200	50.0 250	75.0	100
Ethyl ether	FB	Ave	17492 571891	72772 615783	152003 684776	205846	266145	5.00 175	25.0 200	50.0 250	75.0	100
1,1-Dichloroethene	FB	Ave	31838 947258	142218 1084631	268450 1276614	357833	512010	5.00 175	25.0 200	50.0 250	75.0	100
1,1,2-Trichloro-1,2,2-trifluoroetha ne	FB	Ave	34070 1031633	156908 1182970	293548 1399497	390135	554955	5.00 175	25.0 200	50.0 250	75.0	100
Acetone	FB	Ave	17384 248622	33553 242214	63497 259074	84069	107511	25.0 350	50.0 400	100 500	150	200
Iodomethane	FB	Ave	52739 1681557	244776 1912039	471446 2282945	642094	899657	5.00 175	25.0 200	50.0 250	75.0	100
Carbon disulfide	FB	Ave	87697 2863516	436939 3250822	829348 3908032	1096146	1566007	5.00 175	25.0 200	50.0 250	75.0	100
Allyl chloride	FB	Ave	22089 766162	104706 898270	196517 1037061	274918	400109	5.00 175	25.0 200	50.0 250	75.0	100

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1 Analy Batch No.: 255712

SDG No.:

Instrument ID: CHHP11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/01/2018 12:02 Calibration End Date: 09/01/2018 15:12 Calibration ID: 38447

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Methyl acetate	FB	Ave	16132 541861	63573 548019	138691 570483	184459	233040	10.0 350	50.0 400	100 500	150	200
Methylene Chloride	FB	Lin2	75251 909267	167963 1008768	285804 1167064	375396	490791	5.00 175	25.0 200	50.0 250	75.0	100
tert-Butyl alcohol	TBAd 9	Qua	20613 601515	60737 542389	141480 531813	184528	221217	50.0 1750	250 2000	500 2500	750	1000
Acrylonitrile	FB	Ave	39233 1371219	158690 1397488	343720 1483438	480727	587088	50.0 1750	250 2000	500 2500	750	1000
trans-1,2-Dichloroethene	FB	Ave	34733 1070090	159784 1227710	301264 1447628	411645	577743	5.00 175	25.0 200	50.0 250	75.0	100
Methyl tert-butyl ether	FB	Ave	50667 1872643	223761 1987444	490043 2179783	674709	851590	5.00 175	25.0 200	50.0 250	75.0	100
Hexane	FB	Ave	56062 1482095	233658 1720867	432872 1992985	568681	807335	5.00 175	25.0 200	50.0 250	75.0	100
1,1-Dichloroethane	FB	Ave	50330 1602367	236051 1841557	450840 2159886	624835	875558	5.00 175	25.0 200	50.0 250	75.0	100
cis-1,2-Dichloroethene	FB	Ave	33490 1081410	155044 1232585	300357 1445715	423392	581489	5.00 175	25.0 200	50.0 250	75.0	100
2,2-Dichloropropane	FB	Ave	10119 297996	45218 341230	88649 414694	115843	160637	5.00 175	25.0 200	50.0 250	75.0	100
2-Butanone (MEK)	FB	Qua	13745 384233	45589 375538	94915 +++++	127935	161003	25.0 350	50.0 400	100 +++++	150	200
Chlorobromomethane	FB	Ave	12538 435862	57557 482865	117575 542696	163958	214806	5.00 175	25.0 200	50.0 250	75.0	100
Tetrahydrofuran	FB	Qua	9703 249607	31039 248607	64195 +++++	84356	102033	10.0 350	50.0 400	100 +++++	150	200
Chloroform	FB	Ave	53173 1660166	244337 1898422	465812 2219521	660819	897196	5.00 175	25.0 200	50.0 250	75.0	100
1,1,1-Trichloroethane	FB	Ave	55456 1711026	252468 1968514	479880 2327626	660884	933265	5.00 175	25.0 200	50.0 250	75.0	100
Cyclohexane	FB	Ave	57781 1718434	263255 1980138	495794 2308783	658535	933878	5.00 175	25.0 200	50.0 250	75.0	100
Carbon tetrachloride	FB	Ave	49439 1591758	235291 1829124	441265 2147620	603361	863839	5.00 175	25.0 200	50.0 250	75.0	100
1,1-Dichloropropene	FB	Ave	46408 1416143	214013 1634089	402026 1902735	548154	772895	5.00 175	25.0 200	50.0 250	75.0	100
Isobutyl alcohol	FB	Ave	14377 431020	46583 407362	101195 397951	138286	166831	125 4375	625 5000	1250 6250	1875	2500
Benzene	FB	Ave	118774 3698518	543897 4234780	1039082 4947651	1444882	2010847	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dichloroethane	FB	Ave	27600 956649	124672 1037862	255145 1173004	359924	464887	5.00 175	25.0 200	50.0 250	75.0	100

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1 Analy Batch No.: 255712

SDG No.:

Instrument ID: CHHP11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/01/2018 12:02 Calibration End Date: 09/01/2018 15:12 Calibration ID: 38447

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
n-Heptane	FB	Ave	52172 1544495	239080 1775618	444495 2066921	594833	831827	5.00 175	25.0 200	50.0 250	75.0	100
Trichloroethene	FB	Ave	37357 1191944	175400 1383019	333318 1618213	463635	654297	5.00 175	25.0 200	50.0 250	75.0	100
Methylcyclohexane	FB	Ave	62894 1966986	298992 2253707	553825 2637046	741093	1055979	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dichloropropane	FB	Ave	26137 850601	119583 961151	234061 1113474	333989	446146	5.00 175	25.0 200	50.0 250	75.0	100
Dibromomethane	FB	Ave	11352 403226	50628 435276	106128 483055	150905	193314	5.00 175	25.0 200	50.0 250	75.0	100
1,4-Dioxane	FB	Ave	3296 96325	11549 97772	26724 +++++	37772	43188	100 3500	500 4000	1000 +++++	1500	2000
Dichlorobromomethane	FB	Ave	35014 1195602	159421 1333291	317282 1530081	463002	611701	5.00 175	25.0 200	50.0 250	75.0	100
cis-1,3-Dichloropropene	FB	Ave	39837 1385288	183755 1547131	367633 1760742	532801	705609	5.00 175	25.0 200	50.0 250	75.0	100
4-Methyl-2-pentanone (MIBK)	CBNZ d5	Qua	30011 947984	101711 954459	228246 +++++	309494	382706	25.0 350	50.0 400	100 +++++	150	200
Toluene	CBNZ d5	Ave	137300 4183928	614904 4800083	1170365 5636695	1668608	2302831	5.00 175	25.0 200	50.0 250	75.0	100
trans-1,3-Dichloropropene	CBNZ d5	Ave	30712 1104293	139481 1212250	287030 1350581	411285	537003	5.00 175	25.0 200	50.0 250	75.0	100
Ethyl methacrylate	CBNZ d5	Ave	24192 816815	97576 859502	203041 915545	294283	367351	5.00 175	25.0 200	50.0 250	75.0	100
1,1,2-Trichloroethane	CBNZ d5	Ave	17900 585799	73047 630692	154175 701128	220253	281080	5.00 175	25.0 200	50.0 250	75.0	100
Tetrachloroethene	CBNZ d5	Ave	33049 1040599	151875 1215887	286540 1421941	403205	565916	5.00 175	25.0 200	50.0 250	75.0	100
1,3-Dichloropropane	CBNZ d5	Ave	28910 997418	125775 1081587	261442 1194574	372975	476294	5.00 175	25.0 200	50.0 250	75.0	100
2-Hexanone	CBNZ d5	Lin2	21453 646026	70295 658797	152686 +++++	219182	261922	25.0 350	50.0 400	100 +++++	150	200
Chlorodibromomethane	CBNZ d5	Lin2	24093 818833	101166 892668	209700 991958	303124	393628	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dibromoethane	CBNZ d5	Ave	15884 557379	67530 599266	143832 654844	204862	259260	5.00 175	25.0 200	50.0 250	75.0	100
Chlorobenzene	CBNZ d5	Ave	89168 2735788	394677 3123004	747887 3644953	1085883	1484934	5.00 175	25.0 200	50.0 250	75.0	100
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	33276 1032290	141318 1151219	275550 1347572	402614	538766	5.00 175	25.0 200	50.0 250	75.0	100
Ethylbenzene	CBNZ d5	Ave	50770 1590236	231389 1842037	437244 2157759	630231	879084	5.00 175	25.0 200	50.0 250	75.0	100

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1 Analy Batch No.: 255712

SDG No.:

Instrument ID: CHHP11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/01/2018 12:02 Calibration End Date: 09/01/2018 15:12 Calibration ID: 38447

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
m-Xylene & p-Xylene	CBNZ d5	Ave	64862 1949134	288633 2262210	535565 2654458	779092	1076826	5.00 175	25.0 200	50.0 250	75.0	100
o-Xylene	CBNZ d5	Ave	62037 1889813	272098 2163897	515705 2543329	747999	1027324	5.00 175	25.0 200	50.0 250	75.0	100
Styrene	CBNZ d5	Ave	91821 2972792	420435 3393539	796332 3951116	1182290	1604966	5.00 175	25.0 200	50.0 250	75.0	100
Bromoform	CBNZ d5	Ave	14447 491543	55329 517850	118825 572034	171843	221891	5.00 175	25.0 200	50.0 250	75.0	100
Isopropylbenzene	CBNZ d5	Ave	167455 5150407	775746 5932700	1453660 6989791	2076624	2900005	5.00 175	25.0 200	50.0 250	75.0	100
1,1,2,2-Tetrachloroethane	CBNZ d5	Ave	22981 676653	79630 700679	171099 750494	236229	301262	5.00 175	25.0 200	50.0 250	75.0	100
Bromobenzene	DCBd 4	Ave	39434 1169693	159080 1326248	313094 1539011	457889	613186	5.00 175	25.0 200	50.0 250	75.0	100
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	5436 162134	18609 170910	38591 180527	58117	72741	5.00 175	25.0 200	50.0 250	75.0	100
1,2,3-Trichloropropane	DCBd 4	Ave	7237 212677	26156 221093	54105 235825	76912	96030	5.00 175	25.0 200	50.0 250	75.0	100
N-Propylbenzene	DCBd 4	Ave	48575 1483191	221933 1740687	412601 2055431	594281	839020	5.00 175	25.0 200	50.0 250	75.0	100
2-Chlorotoluene	DCBd 4	Ave	40199 1210013	178148 1400394	334791 1648347	488580	677126	5.00 175	25.0 200	50.0 250	75.0	100
1,3,5-Trimethylbenzene	DCBd 4	Ave	143330 4303534	655210 4959885	1207845 5860515	1745857	2423402	5.00 175	25.0 200	50.0 250	75.0	100
4-Chlorotoluene	DCBd 4	Ave	43039 1236368	181500 1439210	337272 1695092	499064	683335	5.00 175	25.0 200	50.0 250	75.0	100
tert-Butylbenzene	DCBd 4	Ave	132135 3992869	603402 4619366	1123530 5477359	1615761	2260360	5.00 175	25.0 200	50.0 250	75.0	100
1,2,4-Trimethylbenzene	DCBd 4	Ave	145636 4296463	648303 4937797	1192435 5819891	1764104	2414386	5.00 175	25.0 200	50.0 250	75.0	100
sec-Butylbenzene	DCBd 4	Ave	193820 5775941	883124 6663846	1635468 7854419	2352517	3275358	5.00 175	25.0 200	50.0 250	75.0	100
1,3-Dichlorobenzene	DCBd 4	Ave	87850 2376267	347059 2739741	643879 3213574	954870	1305625	5.00 175	25.0 200	50.0 250	75.0	100
4-Isopropyltoluene	DCBd 4	Ave	170799 5122976	783913 5919982	1431397 7012668	2089296	2893590	5.00 175	25.0 200	50.0 250	75.0	100
1,4-Dichlorobenzene	DCBd 4	Ave	86554 2340715	342047 2685257	632765 3127922	943187	1272755	5.00 175	25.0 200	50.0 250	75.0	100
n-Butylbenzene	DCBd 4	Ave	155061 4394947	694943 5116211	1241233 6053719	1823208	2539745	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dichlorobenzene	DCBd 4	Ave	78002 2113918	297641 2371884	570305 2761522	842654	1117456	5.00 175	25.0 200	50.0 250	75.0	100

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1 Analy Batch No.: 255712

SDG No.:

Instrument ID: CHHP11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/01/2018 12:02 Calibration End Date: 09/01/2018 15:12 Calibration ID: 38447

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	5291 157866	17465 162440	37751 168586	53822	65591	5.00 175	25.0 200	50.0 250	75.0	100
1,2,4-Trichlorobenzene	DCBd 4	Ave	68579 1714106	247398 1921733	470710 2250221	681882	903641	5.00 175	25.0 200	50.0 250	75.0	100
Hexachlorobutadiene	DCBd 4	Ave	43557 1188011	182817 1368969	337156 1660600	481144	672384	5.00 175	25.0 200	50.0 250	75.0	100
Naphthalene	DCBd 4	Lin2	114920 2516311	319467 2640089	669060 2887189	925281	1171799	5.00 175	25.0 200	50.0 250	75.0	100
1,2,3-Trichlorobenzene	DCBd 4	Ave	56514 1462551	199762 1593245	401146 1823967	568411	743456	5.00 175	25.0 200	50.0 250	75.0	100
Dibromofluoromethane (Surr)	FB	Ave	26847 888307	124147 973788	250395 1135546	330374	462324	5.00 175	25.0 200	50.0 250	75.0	100
1,2-Dichloroethane-d4 (Surr)	FB	Ave	24488 808549	106943 865101	223139 962214	292700	388333	5.00 175	25.0 200	50.0 250	75.0	100
Toluene-d8 (Surr)	CBNZ d5	Ave	115621 3635351	524360 4009537	1029627 4712111	1364842	1955762	5.00 175	25.0 200	50.0 250	75.0	100
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	39569 1266087	178708 1406255	349089 1624955	472701	658187	5.00 175	25.0 200	50.0 250	75.0	100

Curve Type Legend:
Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD
Qua = Quadratic ISTD

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP11\20180901-23450.b\11090103.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 01-Sep-2018 12:02:41 ALS Bottle#: 0 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 180-0023450-003
Operator ID: Patrick Journet Instrument ID: CHHP11
Sublist: chrom-MSVOA_CHHP11*sub1

Method: \\ChromNA\Pittsburgh\ChromData\CHHP11\20180901-23450.b\MSVOA_CHHP11.m
Limit Group: VOA 8260C ICAL
Last Update: 04-Sep-2018 06:59:43 Calib Date: 01-Sep-2018 15:12:00
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP11\20180901-23450.b\11090110.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: journetp Date: 01-Sep-2018 13:09:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.586	4.586	0.000	93	228900	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.557	7.557	0.000	98	1027134	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.663	10.663	0.000	82	236752	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	13.018	13.018	0.000	92	385103	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.829	6.829	0.000	49	26847	5.00	5.51	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.205	7.205	0.000	0	24488	5.00	5.71	
$ 7 Toluene-d8 (Surr)	98	9.207	9.207	0.000	82	115621	5.00	5.84	
$ 8 4-Bromofluorobenzene (Surr	95	11.849	11.849	0.000	88	39569	5.00	5.81	
10 Dichlorodifluoromethane	85	1.727	1.709	0.018	57	44058	5.00	5.72	
11 Chloromethane	50	1.927	1.927	0.000	86	43469	5.00	5.04	
12 Vinyl chloride	62	2.062	2.056	0.006	80	42475	5.00	5.93	
13 Butadiene	39	2.079	2.079	0.000	92	40581	5.00	6.28	
14 Bromomethane	94	2.396	2.402	-0.006	76	28837	5.00	5.03	a
15 Chloroethane	64	2.526	2.525	0.001	90	25321	5.00	6.20	
16 Trichlorofluoromethane	101	2.860	2.854	0.006	83	52655	5.00	5.31	
17 Dichlorofluoromethane	67	2.878	2.872	0.006	78	69973	5.00	6.58	
18 Ethyl ether	59	3.289	3.289	0.000	83	17492	5.00	5.83	
20 1,1-Dichloroethene	96	3.606	3.618	-0.012	91	31838	5.00	5.87	
21 1,1,2-Trichloro-1,2,2-trif	101	3.676	3.665	0.011	60	34070	5.00	5.77	
22 Acetone	43	3.729	3.729	0.000	1	17384	25.0	28.2	
23 Iodomethane	142	3.835	3.829	0.006	50	52739	5.00	5.56	
24 Carbon disulfide	76	3.917	3.911	0.006	94	87697	5.00	5.38	
26 3-Chloro-1-propene	76	4.228	4.222	0.006	79	22089	5.00	5.30	
28 Methyl acetate	43	4.258	4.258	0.000	64	16132	10.0	12.0	
29 Methylene Chloride	84	4.451	4.445	0.006	91	75251	5.00	5.05	
32 2-Methyl-2-propanol	59	4.727	4.721	0.006	57	20613	50.0	65.7	
31 Acrylonitrile	53	4.833	4.827	0.006	86	39233	50.0	57.9	
30 trans-1,2-Dichloroethene	96	4.862	4.856	0.006	37	34733	5.00	5.69	
33 Methyl tert-butyl ether	73	4.874	4.880	-0.006	77	50667	5.00	5.34	
34 Hexane	57	5.267	5.267	0.000	97	56062	5.00	6.40	
36 1,1-Dichloroethane	63	5.485	5.485	0.000	94	50330	5.00	5.53	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
41 cis-1,2-Dichloroethene	96	6.225	6.224	0.000	76	33490	5.00	5.51	
42 2,2-Dichloropropane	97	6.225	6.224	0.000	25	10119	5.00	5.84	a
43 2-Butanone (MEK)	43	6.242	6.242	0.000	33	13745	25.0	19.1	M
46 Chlorobromomethane	128	6.512	6.512	0.000	73	12538	5.00	5.39	
48 Tetrahydrofuran	42	6.542	6.530	0.012	62	9703	10.0	6.48	
49 Chloroform	83	6.653	6.647	0.006	96	53173	5.00	5.63	
50 1,1,1-Trichloroethane	97	6.812	6.812	0.000	90	55456	5.00	5.68	
52 Cyclohexane	56	6.888	6.888	0.000	80	57781	5.00	5.83	
53 Carbon tetrachloride	117	6.982	6.988	-0.006	85	49439	5.00	5.50	
54 1,1-Dichloropropene	75	7.000	6.999	0.001	84	46408	5.00	5.71	
51 Isobutyl alcohol	41	7.193	7.187	0.006	64	14377	125.0	175.5	
55 Benzene	78	7.217	7.217	0.000	82	118774	5.00	5.65	
56 1,2-Dichloroethane	62	7.293	7.287	0.006	88	27600	5.00	5.45	
59 n-Heptane	43	7.569	7.569	0.000	51	52172	5.00	5.85	
60 Trichloroethene	130	7.945	7.945	0.000	91	37357	5.00	5.51	
63 Methylcyclohexane	83	8.180	8.180	0.000	93	62894	5.00	5.63	
64 1,2-Dichloropropane	63	8.221	8.215	0.006	84	26137	5.00	5.53	
65 Dibromomethane	93	8.303	8.303	0.000	77	11352	5.00	5.40	
67 1,4-Dioxane	88	8.303	8.309	-0.006	21	3296	100.0	127.6	
68 Dichlorobromomethane	83	8.497	8.497	0.000	92	35014	5.00	5.41	
71 cis-1,3-Dichloropropene	75	8.943	8.943	0.000	92	39837	5.00	5.34	
72 4-Methyl-2-pentanone (MIBK	43	9.096	9.096	0.000	81	30011	25.0	19.0	M
73 Toluene	91	9.272	9.272	0.000	93	137300	5.00	5.87	
74 trans-1,3-Dichloropropene	75	9.518	9.518	0.000	72	30712	5.00	5.46	
75 Ethyl methacrylate	69	9.571	9.571	0.000	90	24192	5.00	6.00	
76 1,1,2-Trichloroethane	97	9.712	9.712	0.000	90	17900	5.00	5.95	
77 Tetrachloroethene	164	9.788	9.788	0.000	90	33049	5.00	5.73	
78 1,3-Dichloropropane	76	9.871	9.876	-0.005	82	28910	5.00	5.68	
79 2-Hexanone	43	9.929	9.929	0.000	90	21453	25.0	24.4	
81 Chlorodibromomethane	129	10.088	10.088	0.000	91	24093	5.00	5.07	
82 Ethylene Dibromide	107	10.205	10.205	0.000	88	15884	5.00	5.68	
83 Chlorobenzene	112	10.693	10.693	0.000	85	89168	5.00	5.89	
84 1,1,1,2-Tetrachloroethane	131	10.787	10.787	0.001	96	33276	5.00	5.97	
85 Ethylbenzene	106	10.792	10.792	0.000	96	50770	5.00	5.75	
86 m-Xylene & p-Xylene	106	10.922	10.922	0.000	97	64862	5.00	5.93	
88 o-Xylene	106	11.303	11.309	-0.006	96	62037	5.00	5.92	
89 Styrene	104	11.327	11.327	0.000	95	91821	5.00	5.66	
90 Bromoform	173	11.515	11.509	0.006	87	14447	5.00	6.01	
91 Isopropylbenzene	105	11.673	11.673	0.000	96	167455	5.00	5.77	
93 1,1,2,2-Tetrachloroethane	83	11.984	11.984	0.000	82	22981	5.00	6.78	
94 Bromobenzene	156	11.990	11.996	-0.006	80	39434	5.00	6.31	
96 trans-1,4-Dichloro-2-buten	53	12.025	12.025	0.000	44	5436	5.00	6.88	
95 1,2,3-Trichloropropane	110	12.037	12.043	-0.006	37	7237	5.00	6.86	a
97 N-Propylbenzene	120	12.090	12.090	0.000	98	48575	5.00	5.93	
98 2-Chlorotoluene	126	12.184	12.184	0.000	98	40199	5.00	6.04	
99 1,3,5-Trimethylbenzene	105	12.278	12.272	0.006	97	143330	5.00	6.01	
100 4-Chlorotoluene	126	12.307	12.307	0.000	96	43039	5.00	6.30	
101 tert-Butylbenzene	119	12.589	12.589	0.000	93	132135	5.00	5.97	
103 1,2,4-Trimethylbenzene	105	12.648	12.654	-0.006	98	145636	5.00	6.12	
104 sec-Butylbenzene	105	12.818	12.818	0.000	99	193820	5.00	6.03	
105 1,3-Dichlorobenzene	146	12.935	12.941	-0.006	78	87850	5.00	6.66	
106 4-Isopropyltoluene	119	12.971	12.971	0.000	51	170799	5.00	6.00	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
107 1,4-Dichlorobenzene	146	13.041	13.041	0.000	69	86554	5.00	6.68	
110 n-Butylbenzene	91	13.382	13.382	0.000	94	155061	5.00	6.22	
111 1,2-Dichlorobenzene	146	13.399	13.399	0.000	86	78002	5.00	6.77	
112 1,2-Dibromo-3-Chloropropan	157	14.198	14.198	0.000	60	5291	5.00	7.06	
114 1,2,4-Trichlorobenzene	180	15.020	15.020	0.000	91	68579	5.00	7.20	
115 Hexachlorobutadiene	225	15.167	15.167	0.000	88	43557	5.00	6.48	
116 Naphthalene	128	15.296	15.296	0.000	98	114920	5.00	5.12	
117 1,2,3-Trichlorobenzene	180	15.537	15.536	0.000	90	56514	5.00	7.16	
S 130 1,2-Dichloroethene, Total	96				0		10.0	11.2	
S 129 Xylenes, Total	106				0		10.0	11.9	
S 145 Total BTEX	1				0			29.1	
S 131 1,3-Dichloropropene, Total	1				0		10.0	10.8	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

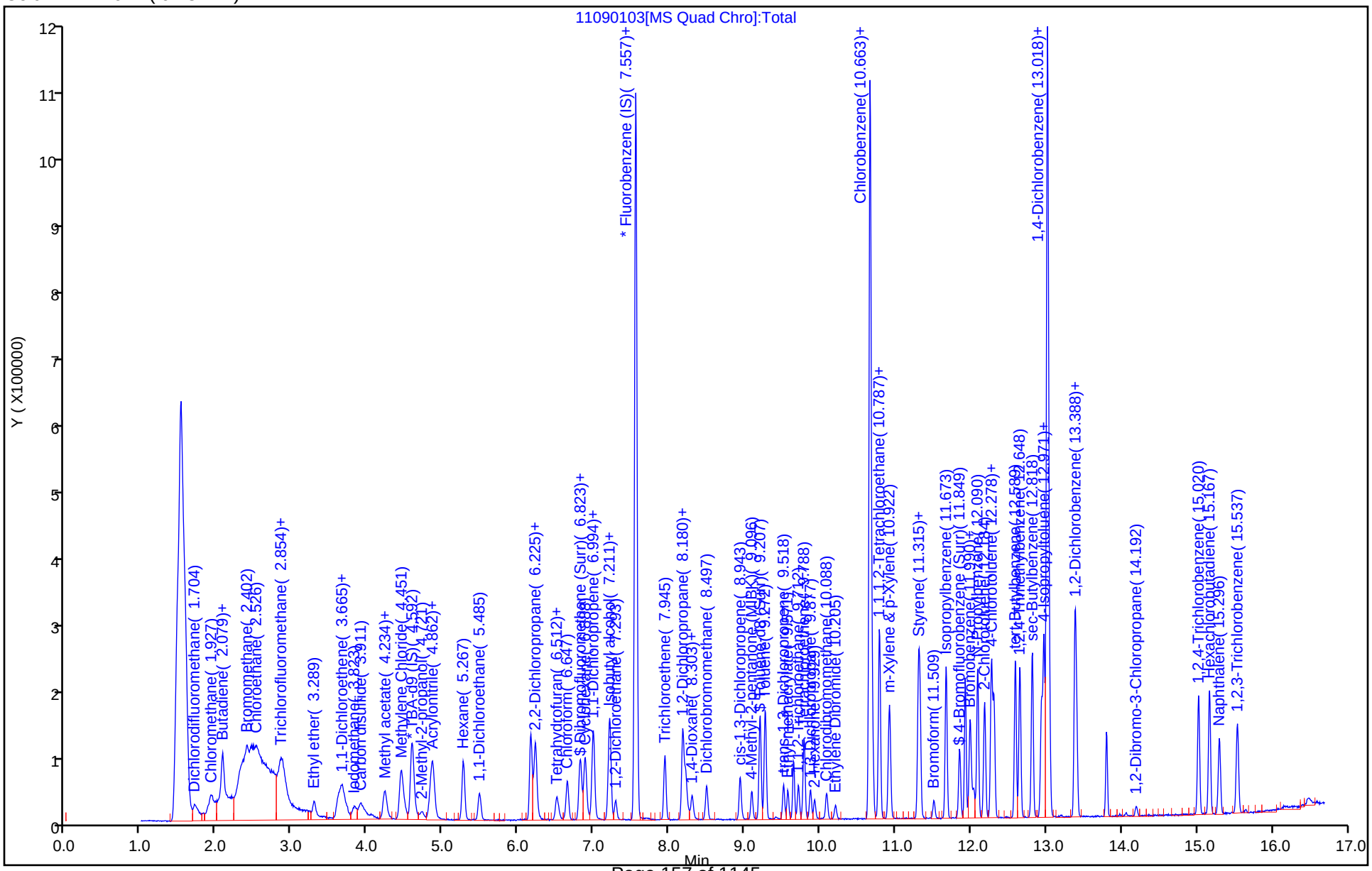
voaWKet2ndRes_00029	Amount Added:	0.80	Units: uL
VOA8260VOA2ND_00309	Amount Added:	0.20	Units: uL
VOA8260INT_00086	Amount Added:	2.00	Units: uL
VOA8260SURR_00086	Amount Added:	0.20	Units: uL

Report Date: 04-Sep-2018 06:59:44 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP11\20180901-23450.b\11090103.D				
Injection Date:	01-Sep-2018 12:02:41	Instrument ID:	CHHP11	Operator ID:	Patrick Journet
Lims ID:	IC			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSVOA_CHHP11	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

TestAmerica Pittsburgh

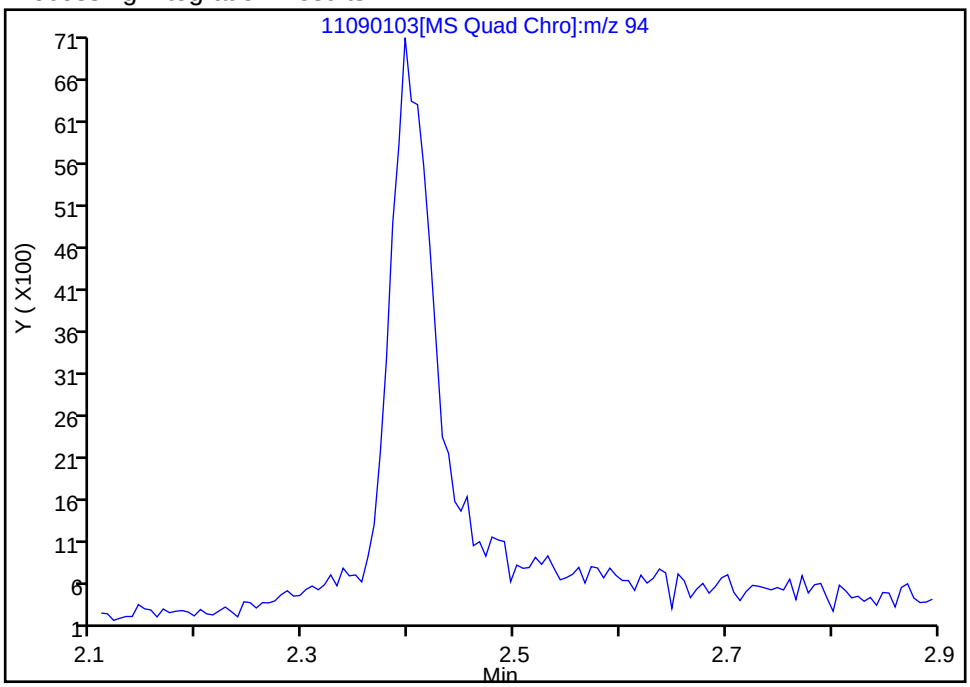
Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP11\20180901-23450.b\11090103.D				
Injection Date:	01-Sep-2018 12:02:41	Instrument ID:	CHHP11		
Lims ID:	IC				
Client ID:					
Operator ID:	Patrick Journet	ALS Bottle#:	0	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP11	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

14 Bromomethane, CAS: 74-83-9

Signal: 1

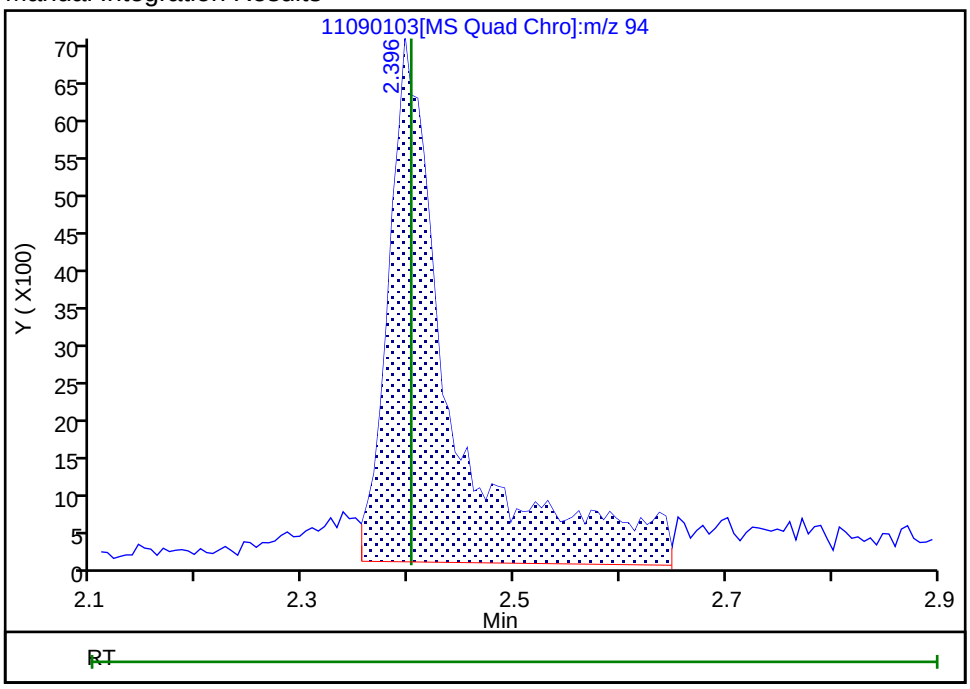
Processing Integration Results

Not Detected
Expected RT: 2.40



Manual Integration Results

RT: 2.40
Area: 28837
Amount: 5.032986
Amount Units: ng



Reviewer: journetp, 01-Sep-2018 13:07:23
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Pittsburgh

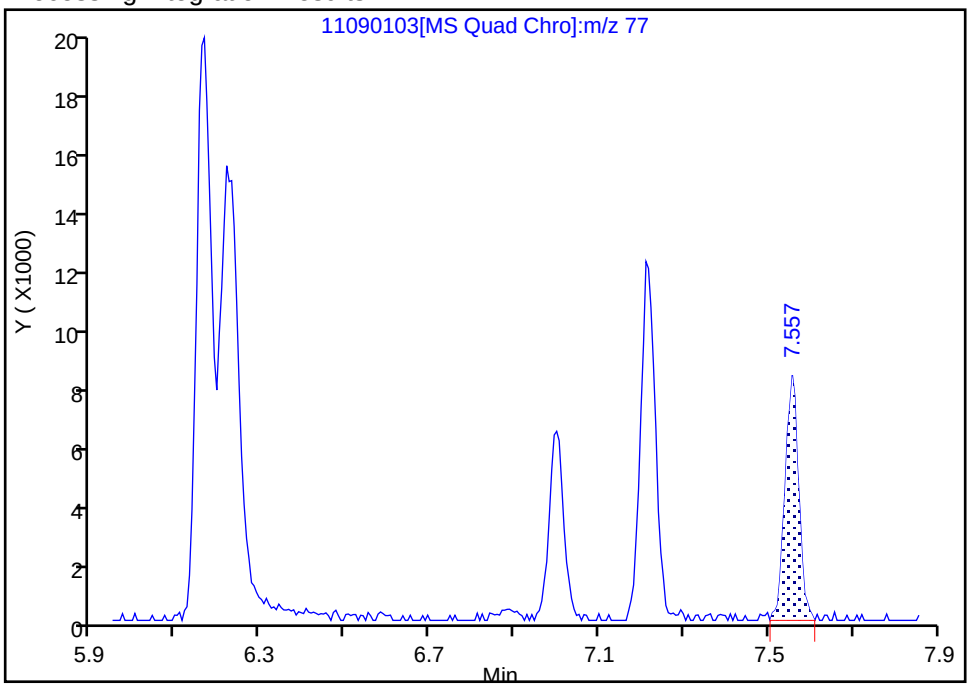
Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP11\20180901-23450.b\11090103.D				
Injection Date:	01-Sep-2018 12:02:41	Instrument ID:	CHHP11		
Lims ID:	IC				
Client ID:					
Operator ID:	Patrick Journet	ALS Bottle#:	0	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP11	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

42 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

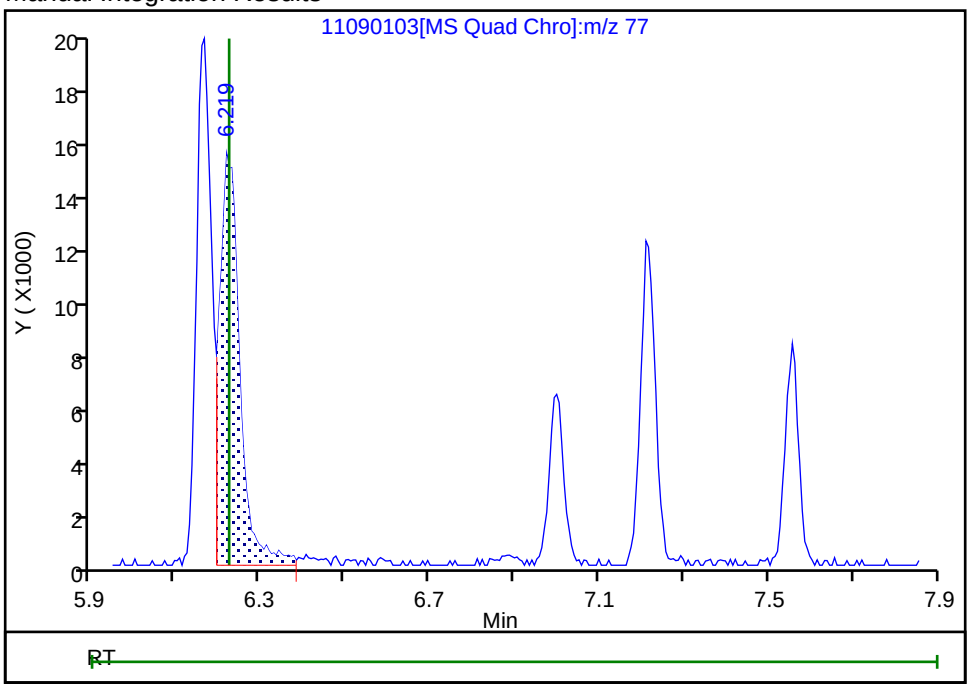
Processing Integration Results

RT: 7.56
Area: 17957
Amount: 19.456789
Amount Units: ng



Manual Integration Results

RT: 6.22
Area: 49517
Amount: 5.837820
Amount Units: ng



Reviewer: journetp, 01-Sep-2018 13:11:43
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Pittsburgh

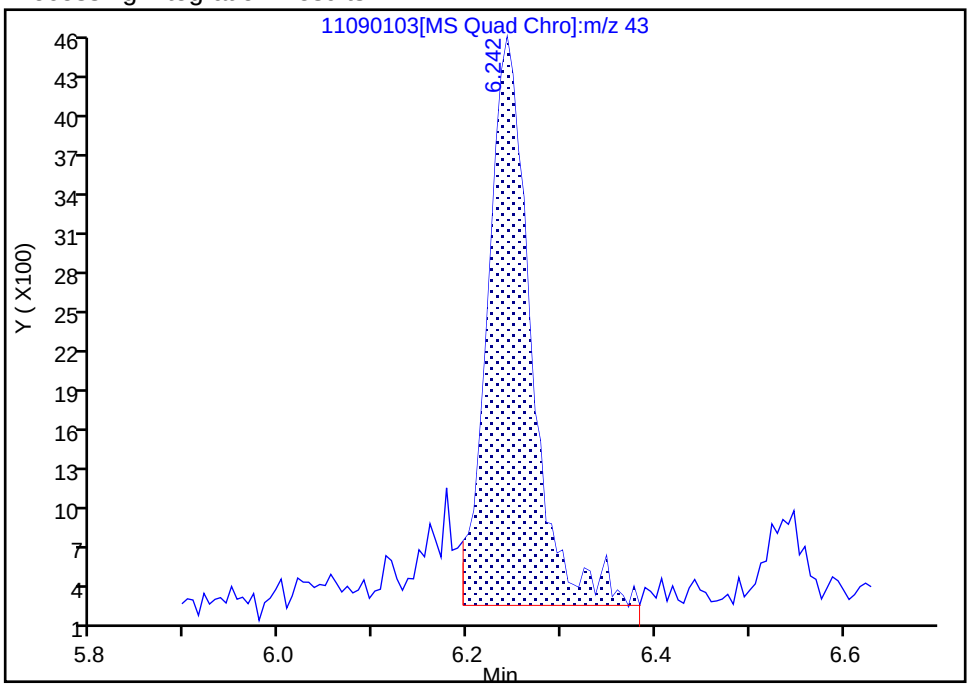
Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP11\20180901-23450.b\11090103.D				
Injection Date:	01-Sep-2018 12:02:41	Instrument ID:	CHHP11		
Lims ID:	IC				
Client ID:					
Operator ID:	Patrick Journet	ALS Bottle#:	0	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP11	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

43 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

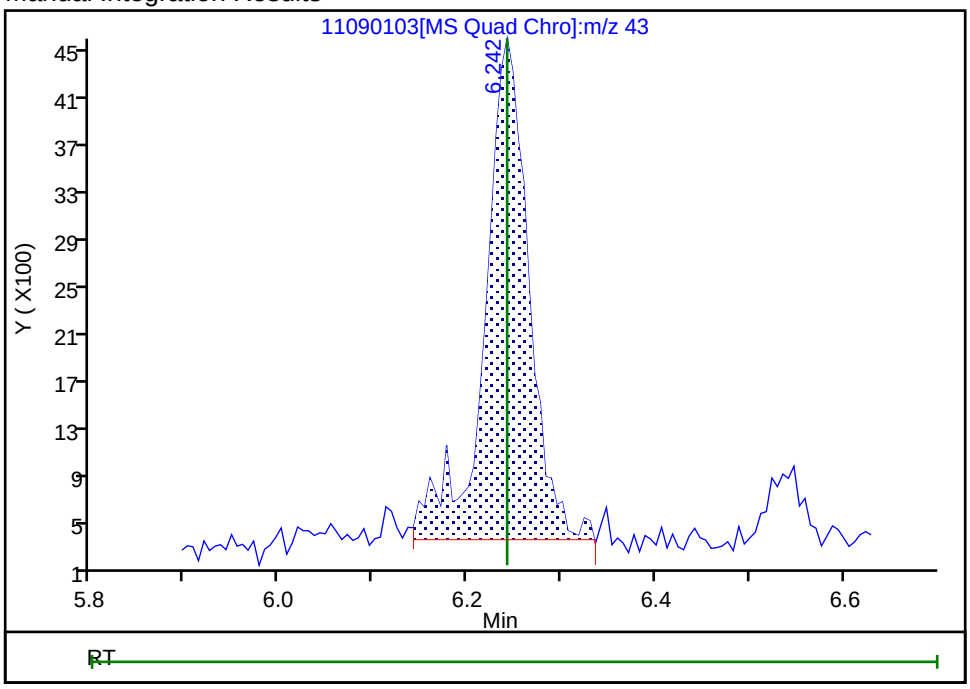
Processing Integration Results

RT: 6.24
Area: 13811
Amount: 23.603096
Amount Units: ng



Manual Integration Results

RT: 6.24
Area: 13745
Amount: 19.081104
Amount Units: ng



Reviewer: journetp, 01-Sep-2018 18:00:10

Audit Action: Manually Integrated Audit Reason: Poor chromatography

TestAmerica Pittsburgh

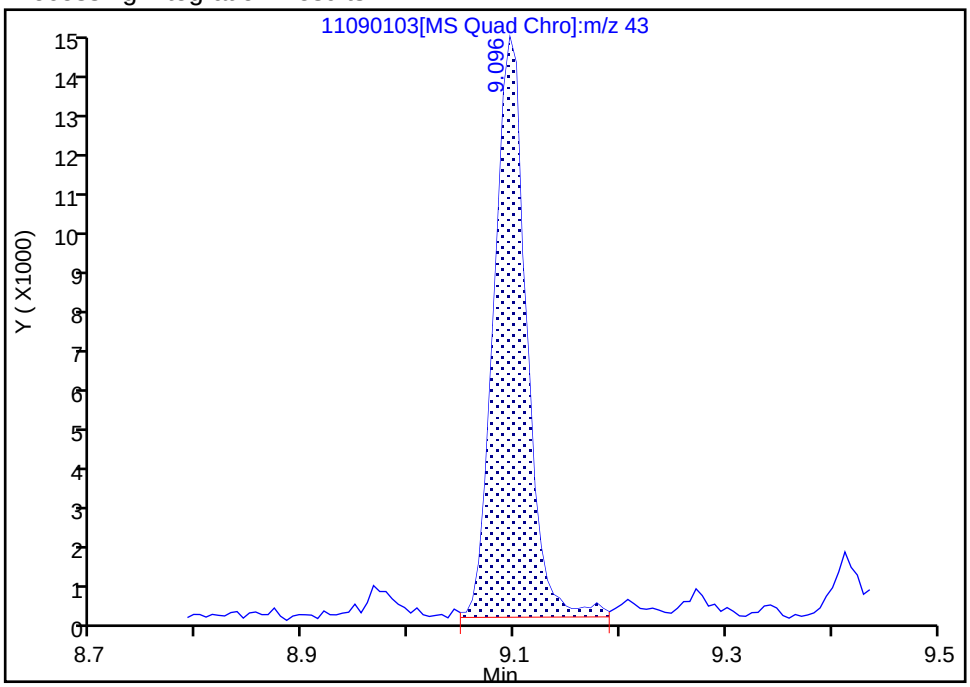
Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP11\20180901-23450.b\11090103.D				
Injection Date:	01-Sep-2018 12:02:41	Instrument ID:	CHHP11		
Lims ID:	IC				
Client ID:					
Operator ID:	Patrick Journet	ALS Bottle#:	0	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP11	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

72 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Signal: 1

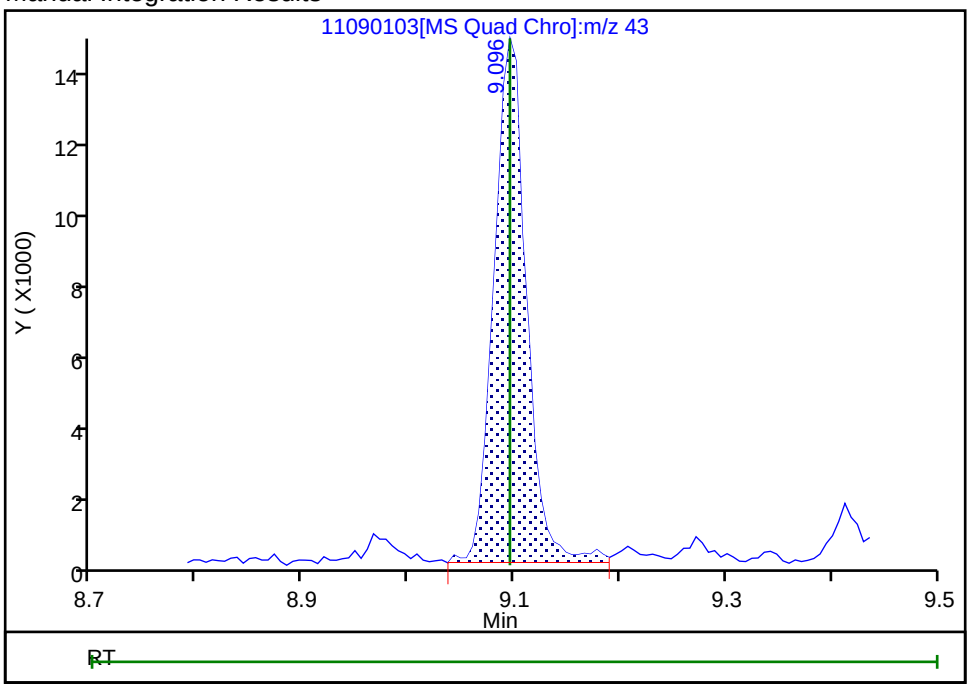
Processing Integration Results

RT: 9.10
Area: 29909
Amount: 24.267754
Amount Units: ng



Manual Integration Results

RT: 9.10
Area: 30011
Amount: 19.038327
Amount Units: ng



Reviewer: journetp, 01-Sep-2018 14:47:11
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Pittsburgh

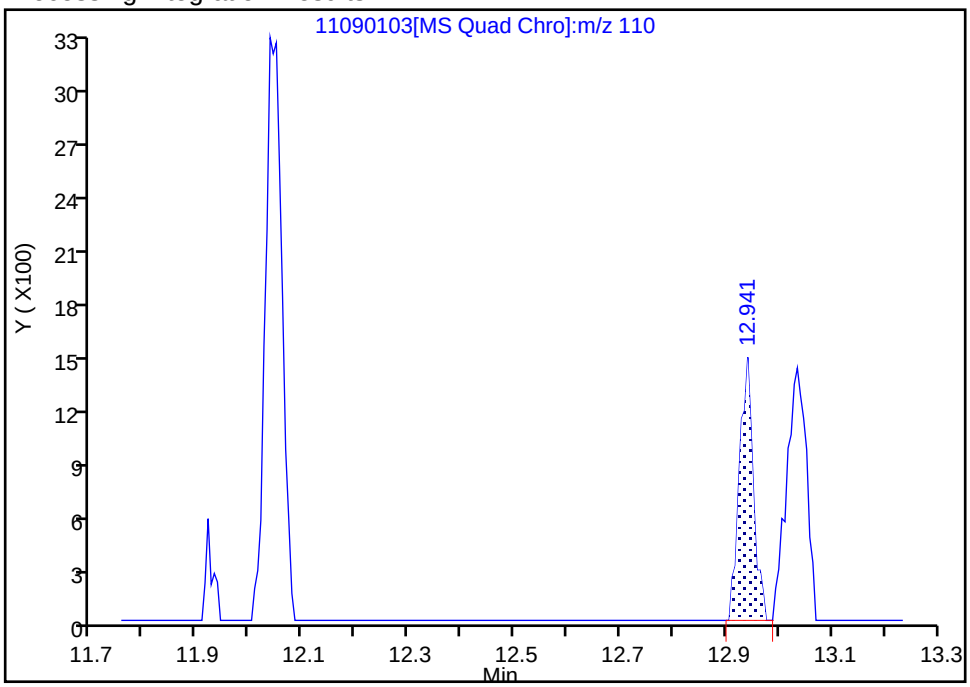
Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP11\20180901-23450.b\11090103.D				
Injection Date:	01-Sep-2018 12:02:41	Instrument ID:	CHHP11		
Lims ID:	IC				
Client ID:					
Operator ID:	Patrick Journet	ALS Bottle#:	0	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP11	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

95 1,2,3-Trichloropropane, CAS: 96-18-4

Signal: 1

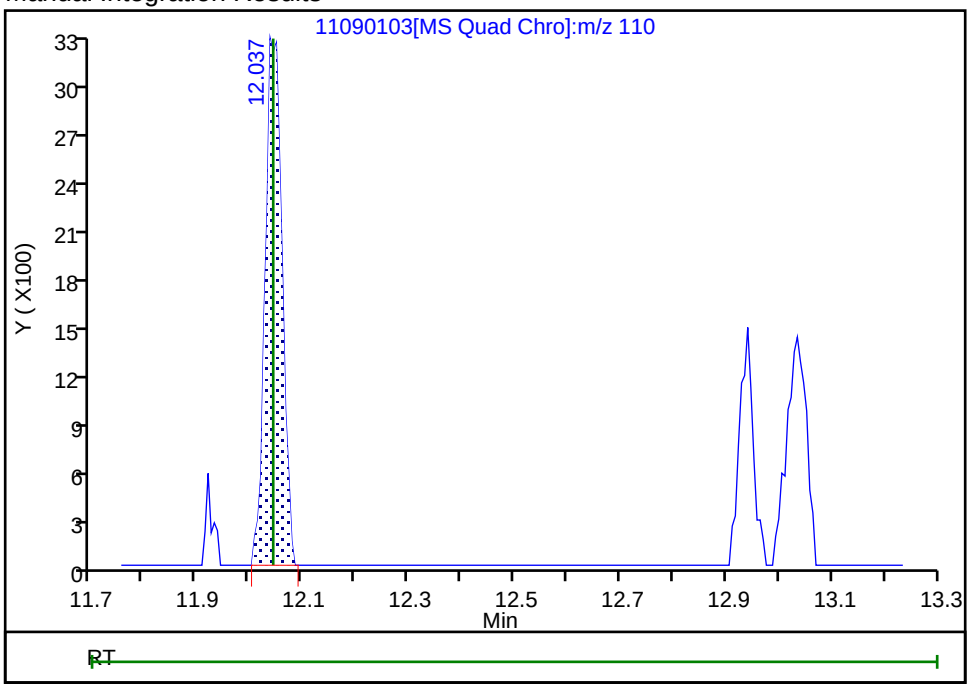
Processing Integration Results

RT: 12.94
Area: 2670
Amount: 3.222038
Amount Units: ng



Manual Integration Results

RT: 12.04
Area: 7237
Amount: 6.858792
Amount Units: ng



Reviewer: journetp, 01-Sep-2018 13:08:45
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP11\20180901-23450.b\11090104.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 01-Sep-2018 12:29:48 ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 180-0023450-004
Operator ID: Patrick Journet Instrument ID: CHHP11
Sublist: chrom-MSVOA_CHHP11*sub1

Method: \\ChromNA\Pittsburgh\ChromData\CHHP11\20180901-23450.b\MSVOA_CHHP11.m
Limit Group: VOA 8260C ICAL
Last Update: 04-Sep-2018 06:59:38 Calib Date: 01-Sep-2018 15:12:00
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP11\20180901-23450.b\11090110.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: journetp Date: 01-Sep-2018 13:11:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.586	4.586	0.000	93	213182	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.557	7.557	0.000	97	1066103	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.663	10.663	0.000	83	244547	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	13.018	13.018	0.000	94	414420	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.835	6.829	0.006	59	124147	25.0	24.6	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.205	7.205	0.000	0	106943	25.0	24.0	
$ 7 Toluene-d8 (Surr)	98	9.207	9.207	0.000	81	524360	25.0	25.6	
$ 8 4-Bromofluorobenzene (Surr	95	11.849	11.849	0.000	87	178708	25.0	25.4	
10 Dichlorodifluoromethane	85	1.721	1.709	0.012	85	209388	25.0	26.2	
11 Chloromethane	50	1.933	1.927	0.006	82	163397	25.0	24.6	
12 Vinyl chloride	62	2.062	2.056	0.006	70	192108	25.0	25.8	
13 Butadiene	39	2.085	2.079	0.006	93	180075	25.0	26.8	
14 Bromomethane	94	2.408	2.402	0.006	84	103739	25.0	24.7	
15 Chloroethane	64	2.549	2.525	0.024	91	104088	25.0	24.6	
16 Trichlorofluoromethane	101	2.878	2.854	0.024	86	247381	25.0	24.1	a
17 Dichlorofluoromethane	67	2.872	2.872	0.000	86	275323	25.0	24.9	
18 Ethyl ether	59	3.295	3.289	0.006	90	72772	25.0	23.4	
20 1,1-Dichloroethene	96	3.618	3.618	0.000	94	142218	25.0	25.3	
21 1,1,2-Trichloro-1,2,2-trif	101	3.676	3.665	0.011	72	156908	25.0	25.6	
22 Acetone	43	3.735	3.729	0.006	83	33553	50.0	52.4	
23 Iodomethane	142	3.835	3.829	0.006	56	244776	25.0	24.9	
24 Carbon disulfide	76	3.917	3.911	0.006	98	436939	25.0	25.8	
26 3-Chloro-1-propene	76	4.222	4.222	0.000	76	104706	25.0	24.2	
28 Methyl acetate	43	4.258	4.258	0.000	55	63573	50.0	45.6	
29 Methylene Chloride	84	4.451	4.445	0.006	92	167963	25.0	23.8	
32 2-Methyl-2-propanol	59	4.716	4.721	-0.005	81	60737	250.0	235.3	
31 Acrylonitrile	53	4.827	4.827	0.000	90	158690	250.0	225.5	
30 trans-1,2-Dichloroethene	96	4.862	4.856	0.006	36	159784	25.0	25.2	
33 Methyl tert-butyl ether	73	4.880	4.880	0.000	80	223761	25.0	22.7	
34 Hexane	57	5.273	5.267	0.006	97	233658	25.0	25.7	
36 1,1-Dichloroethane	63	5.485	5.485	0.000	97	236051	25.0	25.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
42 2,2-Dichloropropane	97	6.230	6.224	0.006	17	45218	25.0	25.1	a
41 cis-1,2-Dichloroethene	96	6.225	6.224	0.001	75	155044	25.0	24.6	
43 2-Butanone (MEK)	43	6.242	6.242	0.000	32	45589	50.0	54.6	
46 Chlorobromomethane	128	6.506	6.512	-0.006	81	57557	25.0	23.8	
48 Tetrahydrofuran	42	6.536	6.530	0.006	74	31039	50.0	49.3	
49 Chloroform	83	6.653	6.647	0.006	96	244337	25.0	24.9	
50 1,1,1-Trichloroethane	97	6.818	6.812	0.006	90	252468	25.0	24.9	
52 Cyclohexane	56	6.888	6.888	0.000	92	263255	25.0	25.6	
53 Carbon tetrachloride	117	6.988	6.988	0.000	72	235291	25.0	25.2	
54 1,1-Dichloropropene	75	7.000	6.999	0.001	85	214013	25.0	25.4	
51 Isobutyl alcohol	41	7.187	7.187	0.000	77	46583	625.0	547.7	
55 Benzene	78	7.217	7.217	0.000	85	543897	25.0	24.9	
56 1,2-Dichloroethane	62	7.293	7.287	0.006	93	124672	25.0	23.7	
59 n-Heptane	43	7.569	7.569	0.000	65	239080	25.0	25.8	
60 Trichloroethene	130	7.945	7.945	0.000	90	175400	25.0	24.9	
63 Methylcyclohexane	83	8.180	8.180	0.000	93	298992	25.0	25.8	
64 1,2-Dichloropropane	63	8.215	8.215	0.000	85	119583	25.0	24.4	
67 1,4-Dioxane	88	8.303	8.309	-0.006	36	11549	500.0	430.7	
65 Dibromomethane	93	8.303	8.303	0.000	85	50628	25.0	23.2	
68 Dichlorobromomethane	83	8.497	8.497	0.000	96	159421	25.0	23.7	
71 cis-1,3-Dichloropropene	75	8.943	8.943	0.000	93	183755	25.0	23.7	
72 4-Methyl-2-pentanone (MIBK	43	9.096	9.096	0.000	91	101711	50.0	53.6	
73 Toluene	91	9.272	9.272	0.000	94	614904	25.0	25.5	
74 trans-1,3-Dichloropropene	75	9.518	9.518	0.000	86	139481	25.0	24.0	
75 Ethyl methacrylate	69	9.571	9.571	0.000	92	97576	25.0	23.4	
76 1,1,2-Trichloroethane	97	9.718	9.712	0.006	94	73047	25.0	23.5	
77 Tetrachloroethene	164	9.788	9.788	0.000	89	151875	25.0	25.5	
78 1,3-Dichloropropane	76	9.877	9.876	0.001	91	125775	25.0	23.9	
79 2-Hexanone	43	9.929	9.929	0.000	98	70295	50.0	53.2	
81 Chlorodibromomethane	129	10.088	10.088	0.000	96	101166	25.0	23.4	
82 Ethylene Dibromide	107	10.205	10.205	0.000	98	67530	25.0	23.4	
83 Chlorobenzene	112	10.693	10.693	0.000	75	394677	25.0	25.3	
84 1,1,1,2-Tetrachloroethane	131	10.787	10.787	0.001	96	141318	25.0	24.5	
85 Ethylbenzene	106	10.792	10.792	0.000	96	231389	25.0	25.4	
86 m-Xylene & p-Xylene	106	10.922	10.922	0.000	97	288633	25.0	25.5	
88 o-Xylene	106	11.303	11.309	-0.006	97	272098	25.0	25.2	
89 Styrene	104	11.327	11.327	0.000	95	420435	25.0	25.1	
90 Bromoform	173	11.515	11.509	0.006	96	55329	25.0	22.3	
91 Isopropylbenzene	105	11.673	11.673	0.000	97	775746	25.0	25.9	
93 1,1,2,2-Tetrachloroethane	83	11.984	11.984	0.000	80	79630	25.0	22.7	
94 Bromobenzene	156	11.996	11.996	0.000	81	159080	25.0	23.7	
96 trans-1,4-Dichloro-2-buten	53	12.025	12.025	0.000	36	18609	25.0	21.9	
95 1,2,3-Trichloropropane	110	12.043	12.043	0.000	69	26156	25.0	23.0	a
97 N-Propylbenzene	120	12.090	12.090	0.000	96	221933	25.0	25.2	
98 2-Chlorotoluene	126	12.184	12.184	0.000	99	178148	25.0	24.9	
99 1,3,5-Trimethylbenzene	105	12.272	12.272	0.000	97	655210	25.0	25.5	
100 4-Chlorotoluene	126	12.307	12.307	0.000	97	181500	25.0	24.7	
101 tert-Butylbenzene	119	12.589	12.589	0.000	92	603402	25.0	25.3	
103 1,2,4-Trimethylbenzene	105	12.654	12.654	0.000	97	648303	25.0	25.3	
104 sec-Butylbenzene	105	12.818	12.818	0.000	98	883124	25.0	25.5	
105 1,3-Dichlorobenzene	146	12.936	12.941	-0.005	87	347059	25.0	24.4	
106 4-Isopropyltoluene	119	12.971	12.971	0.000	97	783913	25.0	25.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
107 1,4-Dichlorobenzene	146	13.041	13.041	0.000	90	342047	25.0	24.5	
110 n-Butylbenzene	91	13.382	13.382	0.000	94	694943	25.0	25.9	
111 1,2-Dichlorobenzene	146	13.399	13.399	0.000	91	297641	25.0	24.0	
112 1,2-Dibromo-3-Chloropropan	157	14.198	14.198	0.000	74	17465	25.0	21.6	
114 1,2,4-Trichlorobenzene	180	15.020	15.020	0.000	93	247398	25.0	24.1	
115 Hexachlorobutadiene	225	15.167	15.167	0.000	91	182817	25.0	25.3	
116 Naphthalene	128	15.296	15.296	0.000	98	319467	25.0	21.2	
117 1,2,3-Trichlorobenzene	180	15.537	15.536	0.001	92	199762	25.0	23.5	
S 129 Xylenes, Total	106				0		50.0	50.7	
S 130 1,2-Dichloroethene, Total	96				0		50.0	49.8	
S 131 1,3-Dichloropropene, Total	1				0		50.0	47.7	
S 145 Total BTEX	1				0			126.4	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

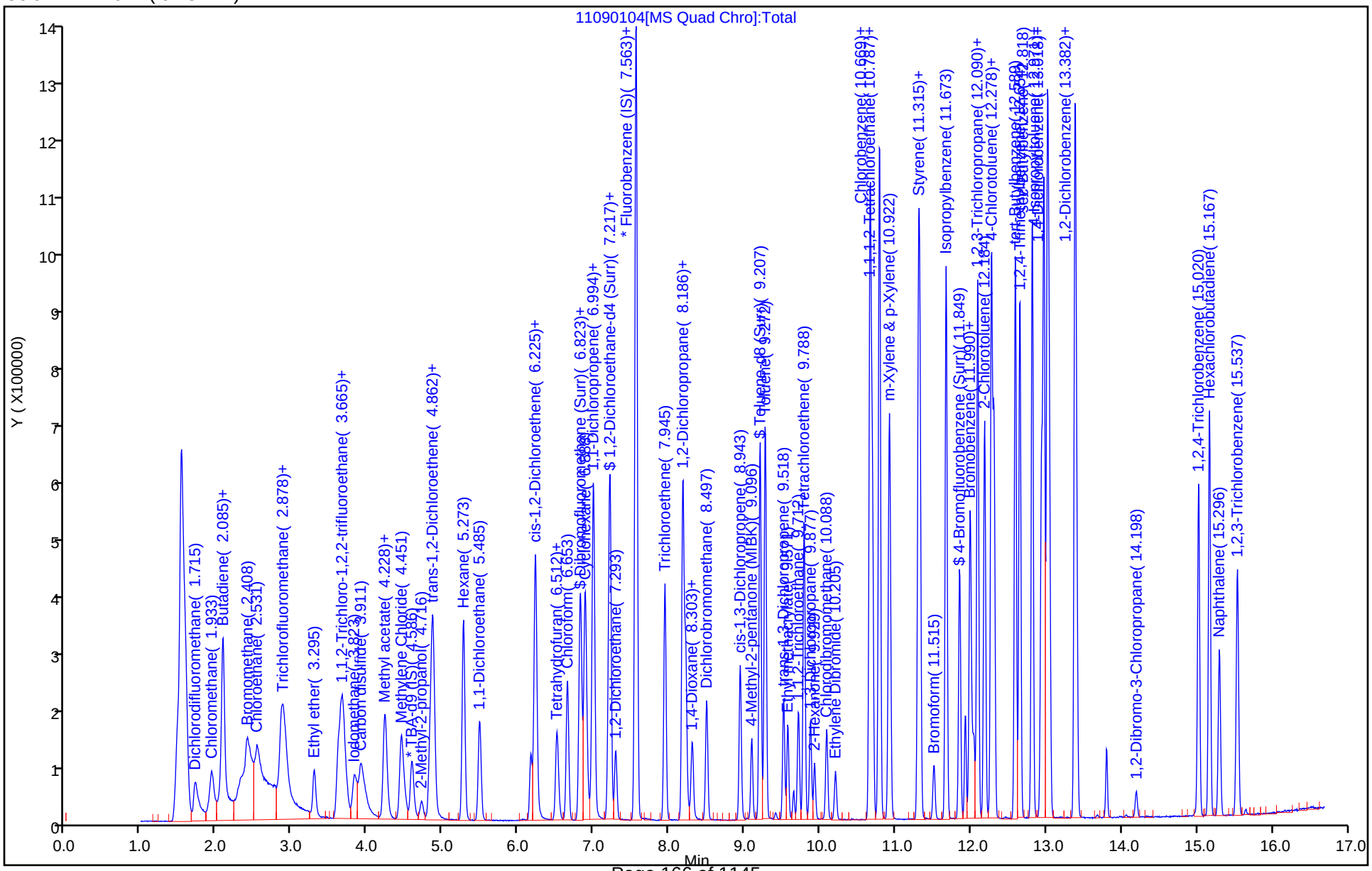
voaWKet2ndRes_00029	Amount Added:	1.00	Units: uL
VOA8260VOA2ND_00309	Amount Added:	1.00	Units: uL
VOA8260INT_00086	Amount Added:	2.00	Units: uL
VOA8260SURR_00086	Amount Added:	1.00	Units: uL

Report Date: 04-Sep-2018 06:59:39 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP11\20180901-23450.b\11090104.D				
Injection Date:	01-Sep-2018 12:29:48	Instrument ID:	CHHP11	Operator ID:	Patrick Journet
Lims ID:	IC			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSVOA_CHHP11	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

TestAmerica Pittsburgh

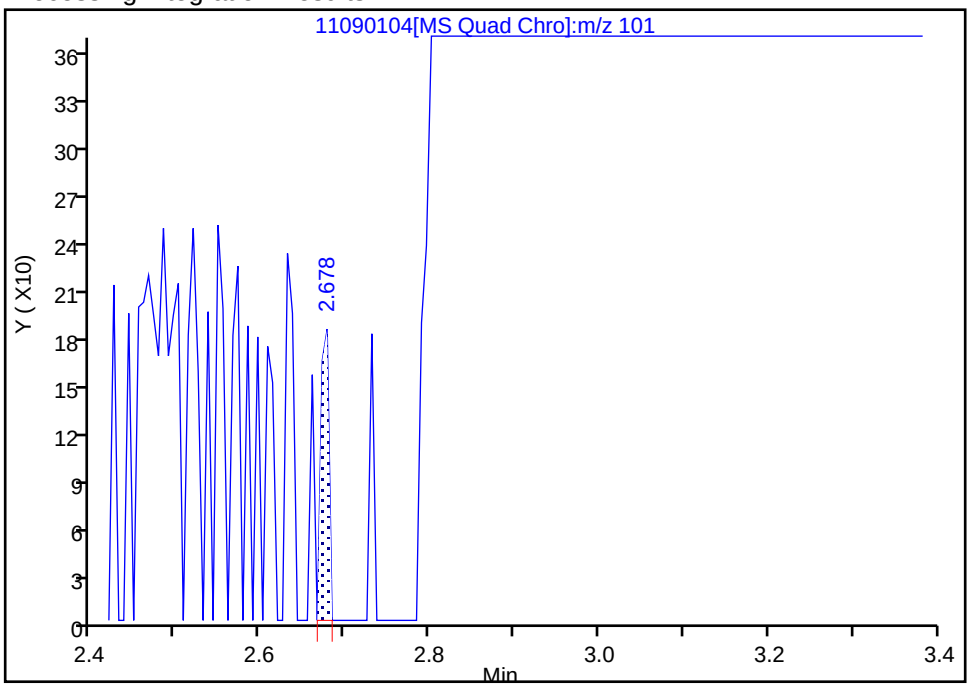
Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP11\20180901-23450.b\11090104.D				
Injection Date:	01-Sep-2018 12:29:48	Instrument ID:	CHHP11		
Lims ID:	IC				
Client ID:					
Operator ID:	Patrick Journet	ALS Bottle#:	0	Worklist Smp#:	4
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP11	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

16 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

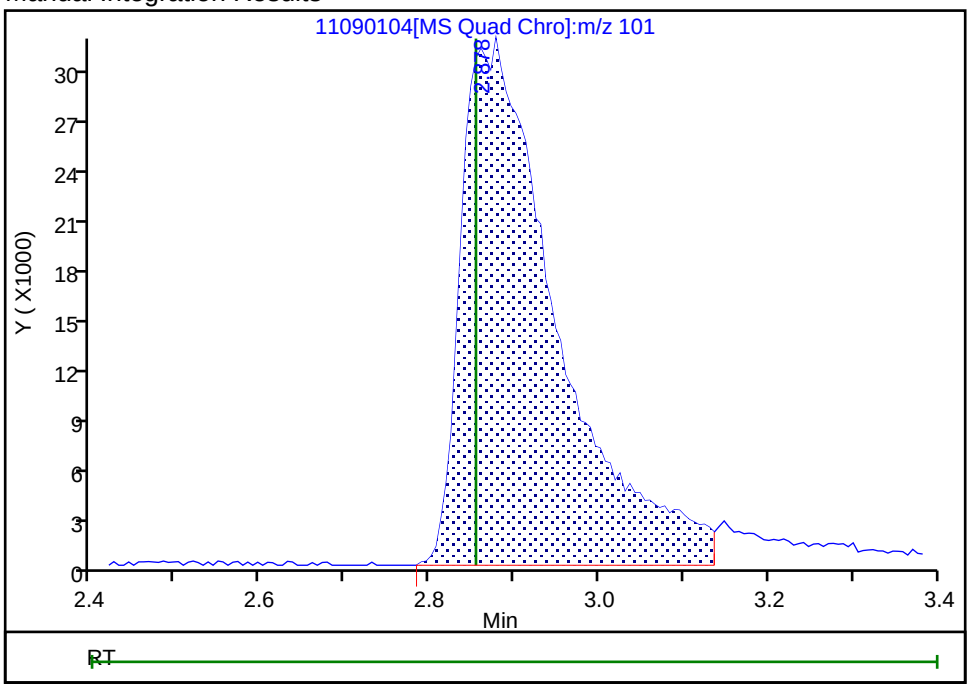
Processing Integration Results

RT: 2.68
Area: 123
Amount: 0.014506
Amount Units: ng



Manual Integration Results

RT: 2.88
Area: 247381
Amount: 24.054286
Amount Units: ng



Reviewer: journetp, 01-Sep-2018 13:10:14
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Pittsburgh

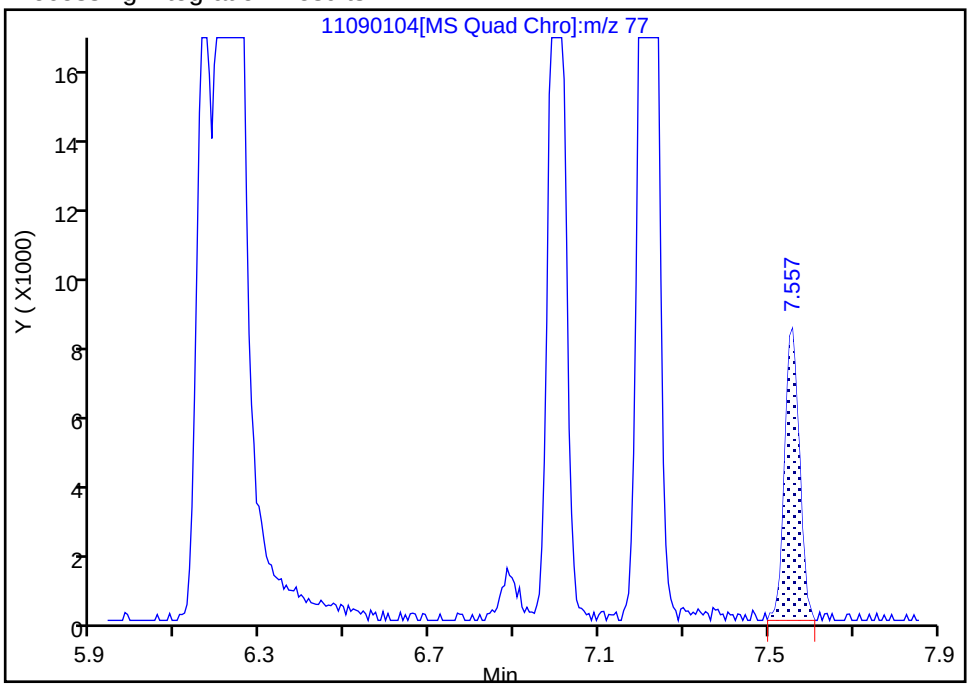
Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP11\20180901-23450.b\11090104.D				
Injection Date:	01-Sep-2018 12:29:48	Instrument ID:	CHHP11		
Lims ID:	IC				
Client ID:					
Operator ID:	Patrick Journet	ALS Bottle#:	0	Worklist Smp#:	4
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP11	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

42 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

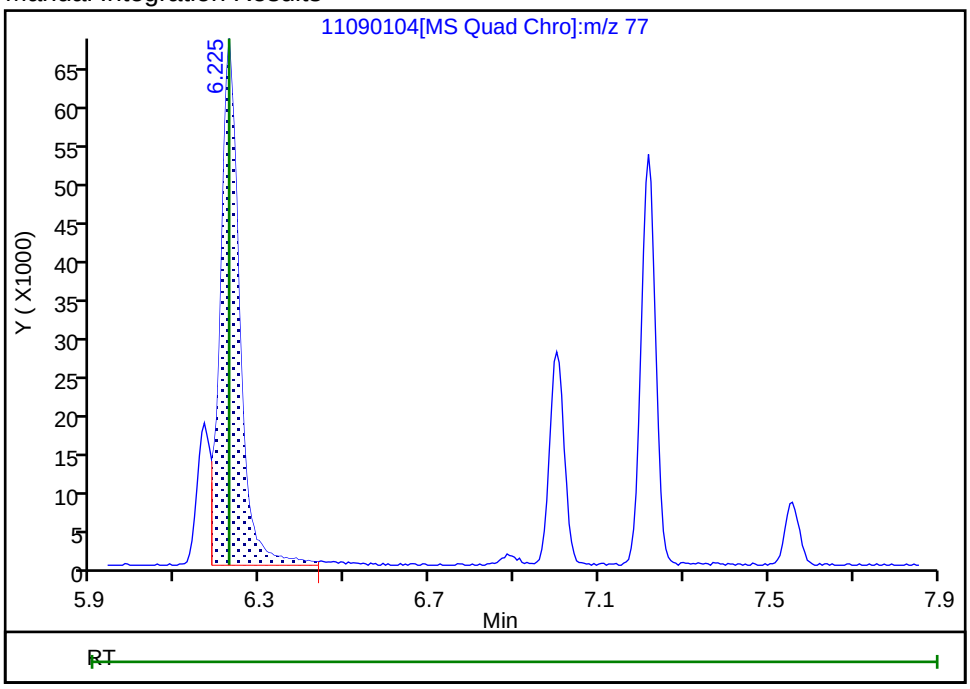
Processing Integration Results

RT: 7.56
Area: 19689
Amount: 36.854677
Amount Units: ng



Manual Integration Results

RT: 6.22
Area: 214284
Amount: 25.133468
Amount Units: ng



Reviewer: journetp, 01-Sep-2018 13:12:25
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Pittsburgh

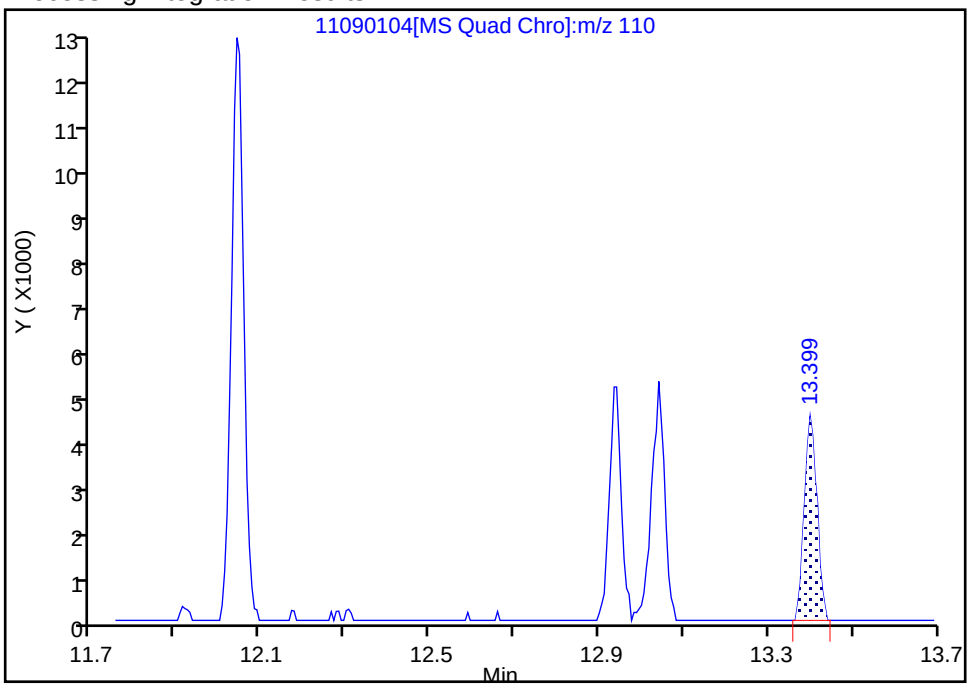
Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP11\20180901-23450.b\11090104.D				
Injection Date:	01-Sep-2018 12:29:48	Instrument ID:	CHHP11		
Lims ID:	IC				
Client ID:					
Operator ID:	Patrick Journet	ALS Bottle#:	0	Worklist Smp#:	4
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP11	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

95 1,2,3-Trichloropropane, CAS: 96-18-4

Signal: 1

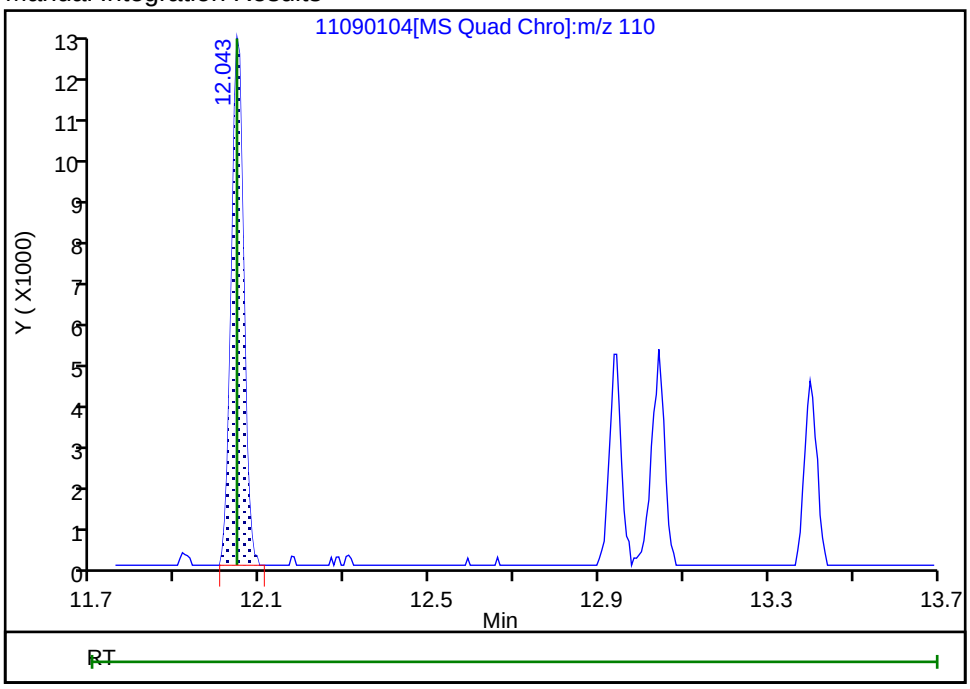
Processing Integration Results

RT: 13.40
Area: 9234
Amount: 8.946184
Amount Units: ng



Manual Integration Results

RT: 12.04
Area: 26156
Amount: 23.035444
Amount Units: ng



Reviewer: journetp, 01-Sep-2018 13:09:43
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP11\20180901-23450.b\11090105.D
Lims ID: ICIS
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 01-Sep-2018 12:56:42 ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 180-0023450-005
Operator ID: Patrick Journet Instrument ID: CHHP11
Sublist: chrom-MSVOA_CHHP11*sub1

Method: \\ChromNA\Pittsburgh\ChromData\CHHP11\20180901-23450.b\MSVOA_CHHP11.m
Limit Group: VOA 8260C ICAL
Last Update: 04-Sep-2018 06:59:34 Calib Date: 01-Sep-2018 15:12:00
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP11\20180901-23450.b\11090110.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: journetp Date: 01-Sep-2018 13:19:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.586	4.586	0.000	75	256828	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.557	7.557	0.000	94	1021949	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.663	10.663	0.000	83	242162	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	13.018	13.018	0.000	93	394184	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.829	6.829	0.000	57	250395	50.0	51.7	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.205	7.205	0.000	0	223139	50.0	52.3	
$ 7 Toluene-d8 (Surr)	98	9.207	9.207	0.000	93	1029627	50.0	50.8	
$ 8 4-Bromofluorobenzene (Surr	95	11.849	11.849	0.000	93	349089	50.0	50.1	
10 Dichlorodifluoromethane	85	1.709	1.709	0.000	86	386017	50.0	50.4	
11 Chloromethane	50	1.927	1.927	0.000	85	306341	50.0	50.5	
12 Vinyl chloride	62	2.056	2.056	0.000	79	355093	50.0	49.8	
13 Butadiene	39	2.079	2.079	0.000	94	318244	50.0	49.5	
14 Bromomethane	94	2.402	2.402	0.000	88	173838	50.0	45.4	
15 Chloroethane	64	2.525	2.525	0.000	92	191674	50.0	47.2	
16 Trichlorofluoromethane	101	2.854	2.854	0.000	74	498514	50.0	50.6	
17 Dichlorofluoromethane	67	2.872	2.872	0.000	86	513590	50.0	48.5	
18 Ethyl ether	59	3.289	3.289	0.000	93	152003	50.0	50.9	
20 1,1-Dichloroethene	96	3.618	3.618	0.000	93	268450	50.0	49.8	
21 1,1,2-Trichloro-1,2,2-trif	101	3.665	3.665	0.000	73	293548	50.0	49.9	
22 Acetone	43	3.729	3.729	0.000	89	63497	100.0	103.4	
23 Iodomethane	142	3.829	3.829	0.000	57	471446	50.0	50.0	
24 Carbon disulfide	76	3.911	3.911	0.000	98	829348	50.0	51.1	
26 3-Chloro-1-propene	76	4.222	4.222	0.000	78	196517	50.0	47.4	
28 Methyl acetate	43	4.258	4.258	0.000	70	138691	100.0	103.8	
29 Methylene Chloride	84	4.445	4.445	0.000	94	285804	50.0	51.0	
32 2-Methyl-2-propanol	59	4.721	4.721	0.000	76	141480	500.0	471.1	
31 Acrylonitrile	53	4.827	4.827	0.000	89	343720	500.0	509.6	
30 trans-1,2-Dichloroethene	96	4.856	4.856	0.000	40	301264	50.0	49.6	
33 Methyl tert-butyl ether	73	4.880	4.880	0.000	83	490043	50.0	51.9	
34 Hexane	57	5.267	5.267	0.000	98	432872	50.0	49.6	
36 1,1-Dichloroethane	63	5.485	5.485	0.000	97	450840	50.0	49.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
41 cis-1,2-Dichloroethene	96	6.224	6.224	0.000	77	300357	50.0	49.6	
42 2,2-Dichloropropane	97	6.224	6.224	0.000	19	88649	50.0	51.4	
43 2-Butanone (MEK)	43	6.242	6.242	0.000	37	94915	100.0	112.1	
46 Chlorobromomethane	128	6.512	6.512	0.000	82	117575	50.0	50.8	
48 Tetrahydrofuran	42	6.530	6.530	0.000	68	64195	100.0	115.0	
49 Chloroform	83	6.647	6.647	0.000	97	465812	50.0	49.5	
50 1,1,1-Trichloroethane	97	6.812	6.812	0.000	92	479880	50.0	49.4	
52 Cyclohexane	56	6.888	6.888	0.000	93	495794	50.0	50.3	
53 Carbon tetrachloride	117	6.988	6.988	0.000	65	441265	50.0	49.4	
54 1,1-Dichloropropene	75	6.999	6.999	0.000	85	402026	50.0	49.7	
51 Isobutyl alcohol	41	7.187	7.187	0.000	79	101195	1250.0	1241.3	
55 Benzene	78	7.217	7.217	0.000	87	1039082	50.0	49.7	
56 1,2-Dichloroethane	62	7.287	7.287	0.000	96	255145	50.0	50.6	
59 n-Heptane	43	7.569	7.569	0.000	82	444495	50.0	50.1	
60 Trichloroethene	130	7.945	7.945	0.000	90	333318	50.0	49.4	
63 Methylcyclohexane	83	8.180	8.180	0.000	93	553825	50.0	49.8	
64 1,2-Dichloropropane	63	8.215	8.215	0.000	87	234061	50.0	49.7	
65 Dibromomethane	93	8.303	8.303	0.000	85	106128	50.0	50.7	
67 1,4-Dioxane	88	8.309	8.309	0.000	26	26724	1000.0	1039.6	
68 Dichlorobromomethane	83	8.497	8.497	0.000	96	317282	50.0	49.3	
71 cis-1,3-Dichloropropene	75	8.943	8.943	0.000	91	367633	50.0	49.5	
72 4-Methyl-2-pentanone (MIBK	43	9.096	9.096	0.000	89	228246	100.0	112.7	
73 Toluene	91	9.272	9.272	0.000	93	1170365	50.0	48.9	
74 trans-1,3-Dichloropropene	75	9.518	9.518	0.000	85	287030	50.0	49.8	
75 Ethyl methacrylate	69	9.571	9.571	0.000	94	203041	50.0	49.2	
76 1,1,2-Trichloroethane	97	9.712	9.712	0.000	96	154175	50.0	50.1	
77 Tetrachloroethene	164	9.788	9.788	0.000	87	286540	50.0	48.6	
78 1,3-Dichloropropane	76	9.876	9.876	0.000	91	261442	50.0	50.2	
79 2-Hexanone	43	9.929	9.929	0.000	66	152686	100.0	103.4	
81 Chlorodibromomethane	129	10.088	10.088	0.000	92	209700	50.0	49.9	
82 Ethylene Dibromide	107	10.205	10.205	0.000	98	143832	50.0	50.3	
83 Chlorobenzene	112	10.693	10.693	0.000	70	747887	50.0	48.3	
84 1,1,1,2-Tetrachloroethane	131	10.787	10.787	0.000	96	275550	50.0	48.3	
85 Ethylbenzene	106	10.792	10.792	0.000	97	437244	50.0	48.4	
86 m-Xylene & p-Xylene	106	10.922	10.922	0.000	97	535565	50.0	47.9	
88 o-Xylene	106	11.309	11.309	0.000	95	515705	50.0	48.2	
89 Styrene	104	11.327	11.327	0.000	94	796332	50.0	48.0	
90 Bromoform	173	11.509	11.509	0.000	96	118825	50.0	48.3	
91 Isopropylbenzene	105	11.673	11.673	0.000	97	1453660	50.0	49.0	
93 1,1,2,2-Tetrachloroethane	83	11.984	11.984	0.000	72	171099	50.0	49.4	
94 Bromobenzene	156	11.996	11.996	0.000	77	313094	50.0	49.0	
96 trans-1,4-Dichloro-2-buten	53	12.025	12.025	0.000	67	38591	50.0	47.7	
95 1,2,3-Trichloropropane	110	12.043	12.043	0.000	89	54105	50.0	50.1	
97 N-Propylbenzene	120	12.090	12.090	0.000	97	412601	50.0	49.2	
98 2-Chlorotoluene	126	12.184	12.184	0.000	98	334791	50.0	49.1	
99 1,3,5-Trimethylbenzene	105	12.272	12.272	0.000	97	1207845	50.0	49.5	
100 4-Chlorotoluene	126	12.307	12.307	0.000	97	337272	50.0	48.2	
101 tert-Butylbenzene	119	12.589	12.589	0.000	92	1123530	50.0	49.6	
103 1,2,4-Trimethylbenzene	105	12.654	12.654	0.000	98	1192435	50.0	48.9	
104 sec-Butylbenzene	105	12.818	12.818	0.000	98	1635468	50.0	49.7	
105 1,3-Dichlorobenzene	146	12.941	12.941	0.000	93	643879	50.0	47.7	
106 4-Isopropyltoluene	119	12.971	12.971	0.000	95	1431397	50.0	49.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
107 1,4-Dichlorobenzene	146	13.041	13.041	0.000	92	632765	50.0	47.7	
110 n-Butylbenzene	91	13.382	13.382	0.000	95	1241233	50.0	48.7	
111 1,2-Dichlorobenzene	146	13.399	13.399	0.000	91	570305	50.0	48.3	
112 1,2-Dibromo-3-Chloropropan	157	14.198	14.198	0.000	81	37751	50.0	49.2	
114 1,2,4-Trichlorobenzene	180	15.020	15.020	0.000	94	470710	50.0	48.3	
115 Hexachlorobutadiene	225	15.167	15.167	0.000	91	337156	50.0	49.0	
116 Naphthalene	128	15.296	15.296	0.000	97	669060	50.0	52.6	
117 1,2,3-Trichlorobenzene	180	15.536	15.536	0.000	92	401146	50.0	49.6	
S 130 1,2-Dichloroethene, Total	96				0		100.0	99.3	
S 129 Xylenes, Total	106				0		100.0	96.0	
S 131 1,3-Dichloropropene, Total	1				0		100.0	99.3	

Reagents:

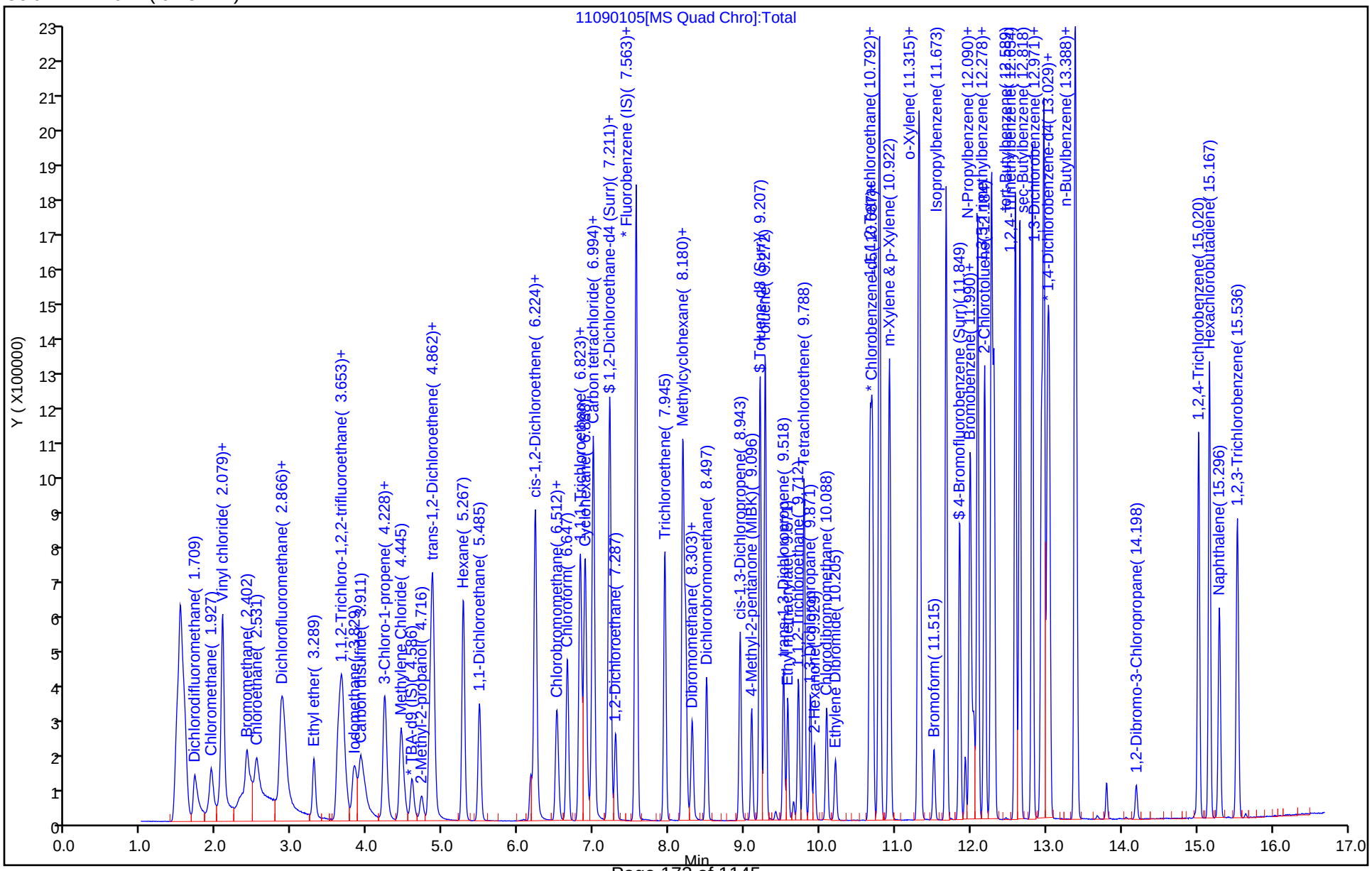
VOA8260SURR_00086	Amount Added:	2.00	Units: uL
VOA8260INT_00086	Amount Added:	2.00	Units: uL
voaWKet2ndRes_00029	Amount Added:	2.00	Units: uL
VOA8260VOA2ND_00309	Amount Added:	2.00	Units: uL

Report Date: 04-Sep-2018 06:59:35 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP11\20180901-23450.b\11090105.D				
Injection Date:	01-Sep-2018 12:56:42	Instrument ID:	CHHP11	Operator ID:	Patrick Journet
Lims ID:	ICIS			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSVOA_CHHP11	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP11\20180901-23450.b\11090106.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 01-Sep-2018 13:23:49 ALS Bottle#: 0 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 180-0023450-006
Operator ID: Patrick Journet Instrument ID: CHHP11
Sublist: chrom-MSVOA_CHHP11*sub1

Method: \\ChromNA\Pittsburgh\ChromData\CHHP11\20180901-23450.b\MSVOA_CHHP11.m
Limit Group: VOA 8260C ICAL
Last Update: 04-Sep-2018 06:59:28 Calib Date: 01-Sep-2018 15:12:00
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP11\20180901-23450.b\11090110.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: journetp Date: 01-Sep-2018 13:46:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.586	4.586	0.000	87	216710	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.557	7.557	0.000	93	1019692	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.663	10.663	0.000	82	239101	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	13.018	13.018	0.000	93	398199	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.829	6.829	0.000	55	330374	75.0	68.3	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.205	7.205	0.000	0	292700	75.0	68.8	
$ 7 Toluene-d8 (Surr)	98	9.207	9.207	0.000	92	1364842	75.0	68.2	
$ 8 4-Bromofluorobenzene (Surr	95	11.849	11.849	0.000	91	472701	75.0	68.8	
10 Dichlorodifluoromethane	85	1.709	1.709	0.000	87	506698	75.0	66.3	
11 Chloromethane	50	1.932	1.932	0.000	86	401993	75.0	67.1	
12 Vinyl chloride	62	2.062	2.062	0.000	79	472599	75.0	66.4	
13 Butadiene	39	2.079	2.079	0.000	92	409713	75.0	63.8	
14 Bromomethane	94	2.408	2.408	0.000	89	291142	75.0	78.3	
15 Chloroethane	64	2.543	2.543	0.000	92	274934	75.0	67.8	
16 Trichlorofluoromethane	101	2.860	2.860	0.000	83	663448	75.0	67.4	
17 Dichlorofluoromethane	67	2.878	2.878	0.000	88	697568	75.0	66.1	
18 Ethyl ether	59	3.295	3.295	0.000	91	205846	75.0	69.1	
20 1,1-Dichloroethene	96	3.618	3.618	0.000	94	357833	75.0	66.5	
21 1,1,2-Trichloro-1,2,2-trif	101	3.670	3.670	0.000	70	390135	75.0	66.5	
22 Acetone	43	3.723	3.723	0.000	63	84069	150.0	137.2	
23 Iodomethane	142	3.829	3.829	0.000	56	642094	75.0	68.2	
24 Carbon disulfide	76	3.917	3.917	0.000	99	1096146	75.0	67.7	
26 3-Chloro-1-propene	76	4.228	4.228	0.000	80	274918	75.0	66.5	
28 Methyl acetate	43	4.252	4.252	0.000	50	184459	150.0	138.3	
29 Methylene Chloride	84	4.445	4.445	0.000	93	375396	75.0	70.7	
32 2-Methyl-2-propanol	59	4.716	4.716	0.000	79	184528	750.0	743.7	
31 Acrylonitrile	53	4.821	4.821	0.000	97	480727	750.0	714.3	
30 trans-1,2-Dichloroethene	96	4.856	4.856	0.000	39	411645	75.0	67.9	
33 Methyl tert-butyl ether	73	4.874	4.874	0.000	14	674709	75.0	71.6	
34 Hexane	57	5.273	5.273	0.000	98	568681	75.0	65.4	
36 1,1-Dichloroethane	63	5.485	5.485	0.000	97	624835	75.0	69.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
42 2,2-Dichloropropane	97	6.230	6.224	0.006	20	115843	75.0	67.3	
41 cis-1,2-Dichloroethene	96	6.224	6.224	0.000	77	423392	75.0	70.1	
43 2-Butanone (MEK)	43	6.236	6.236	0.000	34	127935	150.0	147.7	
46 Chlorobromomethane	128	6.506	6.506	0.000	76	163958	75.0	70.9	
48 Tetrahydrofuran	42	6.530	6.530	0.000	64	84356	150.0	150.4	
49 Chloroform	83	6.653	6.653	0.000	97	660819	75.0	70.4	
50 1,1,1-Trichloroethane	97	6.817	6.817	0.000	88	660884	75.0	68.2	
52 Cyclohexane	56	6.888	6.888	0.000	92	658535	75.0	66.9	
53 Carbon tetrachloride	117	6.988	6.988	0.000	84	603361	75.0	67.7	
54 1,1-Dichloropropene	75	6.999	6.999	0.000	85	548154	75.0	68.0	
51 Isobutyl alcohol	41	7.187	7.187	0.000	84	138286	1875.0	1700.0	
55 Benzene	78	7.217	7.217	0.000	86	1444882	75.0	69.2	
56 1,2-Dichloroethane	62	7.293	7.293	0.000	96	359924	75.0	71.6	
59 n-Heptane	43	7.569	7.569	0.000	92	594833	75.0	67.2	
60 Trichloroethene	130	7.945	7.945	0.000	91	463635	75.0	68.9	
63 Methylcyclohexane	83	8.180	8.180	0.000	93	741093	75.0	66.8	
64 1,2-Dichloropropane	63	8.221	8.221	0.000	85	333989	75.0	71.1	
65 Dibromomethane	93	8.303	8.303	0.000	86	150905	75.0	72.3	
67 1,4-Dioxane	88	8.303	8.303	0.000	37	37772	1500.0	1472.6	
68 Dichlorobromomethane	83	8.497	8.497	0.000	96	463002	75.0	72.0	
71 cis-1,3-Dichloropropene	75	8.943	8.943	0.000	93	532801	75.0	71.9	
72 4-Methyl-2-pentanone (MIBK	43	9.096	9.096	0.000	99	309494	150.0	149.9	
73 Toluene	91	9.278	9.278	0.000	93	1668608	75.0	70.7	
74 trans-1,3-Dichloropropene	75	9.518	9.518	0.000	85	411285	75.0	72.3	
75 Ethyl methacrylate	69	9.571	9.571	0.000	93	294283	75.0	72.2	
76 1,1,2-Trichloroethane	97	9.712	9.712	0.000	96	220253	75.0	72.4	
77 Tetrachloroethene	164	9.788	9.788	0.000	92	403205	75.0	69.2	
78 1,3-Dichloropropane	76	9.871	9.871	0.000	91	372975	75.0	72.6	
79 2-Hexanone	43	9.929	9.929	0.000	98	219182	150.0	145.3	
81 Chlorodibromomethane	129	10.088	10.088	0.000	95	303124	75.0	73.5	
82 Ethylene Dibromide	107	10.205	10.205	0.000	99	204862	75.0	72.6	
83 Chlorobenzene	112	10.693	10.693	0.000	71	1085883	75.0	71.1	
84 1,1,1,2-Tetrachloroethane	131	10.787	10.787	0.000	96	402614	75.0	71.5	
85 Ethylbenzene	106	10.792	10.792	0.000	97	630231	75.0	70.6	
86 m-Xylene & p-Xylene	106	10.922	10.922	0.000	97	779092	75.0	70.5	
88 o-Xylene	106	11.309	11.309	0.000	95	747999	75.0	70.7	
89 Styrene	104	11.327	11.327	0.000	94	1182290	75.0	72.2	
90 Bromoform	173	11.509	11.509	0.000	97	171843	75.0	70.8	
91 Isopropylbenzene	105	11.673	11.673	0.000	97	2076624	75.0	70.9	
93 1,1,2,2-Tetrachloroethane	83	11.984	11.984	0.000	71	236229	75.0	69.0	
94 Bromobenzene	156	11.996	11.996	0.000	78	457889	75.0	70.9	
96 trans-1,4-Dichloro-2-buten	53	12.025	12.025	0.000	81	58117	75.0	71.1	
95 1,2,3-Trichloropropane	110	12.043	12.043	0.000	69	76912	75.0	70.5	
97 N-Propylbenzene	120	12.096	12.096	0.000	96	594281	75.0	70.1	
98 2-Chlorotoluene	126	12.184	12.184	0.000	98	488580	75.0	71.0	
99 1,3,5-Trimethylbenzene	105	12.272	12.272	0.000	97	1745857	75.0	70.8	
100 4-Chlorotoluene	126	12.307	12.307	0.000	97	499064	75.0	70.6	
101 tert-Butylbenzene	119	12.589	12.589	0.000	92	1615761	75.0	70.6	
103 1,2,4-Trimethylbenzene	105	12.654	12.654	0.000	98	1764104	75.0	71.6	
104 sec-Butylbenzene	105	12.818	12.818	0.000	98	2352517	75.0	70.8	
105 1,3-Dichlorobenzene	146	12.941	12.941	0.000	91	954870	75.0	70.0	
106 4-Isopropyltoluene	119	12.971	12.971	0.000	95	2089296	75.0	71.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
107 1,4-Dichlorobenzene	146	13.041	13.041	0.000	93	943187	75.0	70.4	
110 n-Butylbenzene	91	13.382	13.382	0.000	94	1823208	75.0	70.8	
111 1,2-Dichlorobenzene	146	13.399	13.399	0.000	90	842654	75.0	70.7	
112 1,2-Dibromo-3-Chloropropan	157	14.198	14.198	0.000	81	53822	75.0	69.4	
114 1,2,4-Trichlorobenzene	180	15.020	15.020	0.000	95	681882	75.0	69.2	
115 Hexachlorobutadiene	225	15.167	15.167	0.000	90	481144	75.0	69.2	
116 Naphthalene	128	15.296	15.296	0.000	98	925281	75.0	73.9	
117 1,2,3-Trichlorobenzene	180	15.536	15.536	0.000	92	568411	75.0	69.6	
S 129 Xylenes, Total	106				0		150.0	141.3	
S 130 1,2-Dichloroethene, Total	96				0		150.0	138.1	
S 131 1,3-Dichloropropene, Total	1				0		150.0	144.2	
S 145 Total BTEX	1				0			351.8	

Reagents:

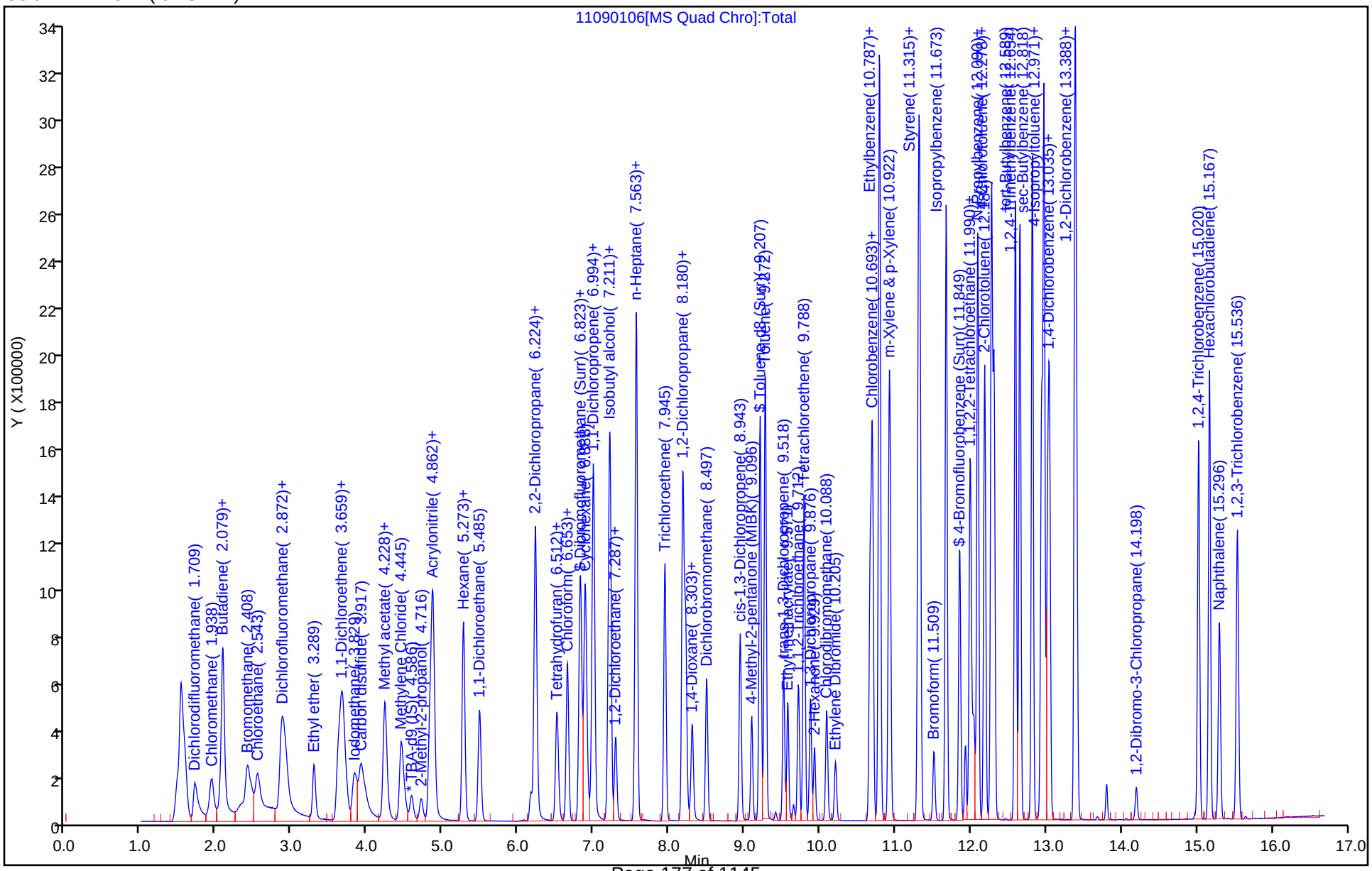
VOA8260SURR_00086 Amount Added: 3.00 Units: uL
VOA8260INT_00086 Amount Added: 2.00 Units: uL
voaWKet2ndRes_00029 Amount Added: 3.00 Units: uL
VOA8260VOA2ND_00309 Amount Added: 3.00 Units: uL

Report Date: 04-Sep-2018 06:59:30 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP11\20180901-23450.b\11090106.D				
Injection Date:	01-Sep-2018 13:23:49	Instrument ID:	CHHP11	Operator ID:	Patrick Journet
Lims ID:	IC			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSVOA_CHHP11	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP11\20180901-23450.b\11090107.D
Lims ID: ic
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 01-Sep-2018 13:50:56 ALS Bottle#: 0 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 180-0023450-007
Operator ID: Patrick Journet Instrument ID: CHHP11
Sublist: chrom-MSVOA_CHHP11*sub1

Method: \\ChromNA\Pittsburgh\ChromData\CHHP11\20180901-23450.b\MSVOA_CHHP11.m
Limit Group: VOA 8260C ICAL
Last Update: 04-Sep-2018 06:59:22 Calib Date: 01-Sep-2018 15:12:00
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP11\20180901-23450.b\11090110.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: journetp Date: 01-Sep-2018 14:42:08

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.581	4.586	-0.005	93	186056	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.557	7.557	0.000	91	1017922	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.663	10.663	0.000	83	239831	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	13.018	13.018	0.000	91	389518	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.829	6.829	0.000	59	462324	100.0	95.8	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.205	7.205	0.000	0	388333	100.0	91.4	
$ 7 Toluene-d8 (Surr)	98	9.207	9.207	0.000	93	1955762	100.0	97.4	
$ 8 4-Bromofluorobenzene (Surr	95	11.849	11.849	0.000	91	658187	100.0	95.5	
10 Dichlorodifluoromethane	85	1.710	1.709	0.001	87	727469	100.0	95.3	
11 Chloromethane	50	1.933	1.927	0.006	86	573401	100.0	97.0	
12 Vinyl chloride	62	2.062	2.056	0.006	78	673122	100.0	94.8	
13 Butadiene	39	2.079	2.079	0.000	94	596477	100.0	93.1	
14 Bromomethane	94	2.408	2.402	0.006	89	380784	100.0	103.5	
15 Chloroethane	64	2.543	2.525	0.018	53	386164	100.0	95.5	
16 Trichlorofluoromethane	101	2.860	2.854	0.006	75	964762	100.0	98.2	a
17 Dichlorofluoromethane	67	2.872	2.872	0.000	86	975108	100.0	92.5	
18 Ethyl ether	59	3.295	3.289	0.006	92	266145	100.0	89.5	
20 1,1-Dichloroethene	96	3.624	3.618	0.006	94	512010	100.0	95.3	
21 1,1,2-Trichloro-1,2,2-trif	101	3.671	3.665	0.006	71	554955	100.0	94.8	
22 Acetone	43	3.729	3.729	0.000	46	107511	200.0	175.7	
23 Iodomethane	142	3.829	3.829	0.000	57	899657	100.0	95.7	
24 Carbon disulfide	76	3.923	3.911	0.012	98	1566007	100.0	96.9	
26 3-Chloro-1-propene	76	4.228	4.222	0.006	85	400109	100.0	96.9	
28 Methyl acetate	43	4.252	4.258	-0.006	45	233040	200.0	175.0	a
29 Methylene Chloride	84	4.451	4.445	0.006	92	490791	100.0	96.1	
32 2-Methyl-2-propanol	59	4.710	4.721	-0.011	72	221217	1000.0	1058.2	
31 Acrylonitrile	53	4.827	4.827	0.000	90	587088	1000.0	873.9	
30 trans-1,2-Dichloroethene	96	4.857	4.856	0.001	39	577743	100.0	95.5	
33 Methyl tert-butyl ether	73	4.880	4.880	0.000	80	851590	100.0	90.5	
34 Hexane	57	5.273	5.267	0.006	98	807335	100.0	93.0	
36 1,1-Dichloroethane	63	5.485	5.485	0.000	97	875558	100.0	97.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
41 cis-1,2-Dichloroethene	96	6.225	6.224	0.001	77	581489	100.0	96.5	
42 2,2-Dichloropropane	97	6.225	6.224	0.001	19	160637	100.0	93.5	
43 2-Butanone (MEK)	43	6.242	6.242	0.000	31	161003	200.0	182.1	M
46 Chlorobromomethane	128	6.512	6.512	0.000	84	214806	100.0	93.1	
48 Tetrahydrofuran	42	6.530	6.530	0.000	59	102033	200.0	179.8	
49 Chloroform	83	6.653	6.647	0.006	97	897196	100.0	95.8	
50 1,1,1-Trichloroethane	97	6.818	6.812	0.006	89	933265	100.0	96.5	
52 Cyclohexane	56	6.888	6.888	0.000	94	933878	100.0	95.1	
53 Carbon tetrachloride	117	6.988	6.988	0.000	72	863839	100.0	97.0	
54 1,1-Dichloropropene	75	7.000	6.999	0.001	84	772895	100.0	96.0	
51 Isobutyl alcohol	41	7.188	7.187	0.001	82	166831	2500.0	2054.5	
55 Benzene	78	7.217	7.217	0.000	86	2010847	100.0	96.5	
56 1,2-Dichloroethane	62	7.293	7.287	0.006	96	464887	100.0	92.6	
59 n-Heptane	43	7.569	7.569	0.000	97	831827	100.0	94.2	
60 Trichloroethene	130	7.945	7.945	0.000	91	654297	100.0	97.4	
63 Methylcyclohexane	83	8.180	8.180	0.000	93	1055979	100.0	95.4	
64 1,2-Dichloropropane	63	8.221	8.215	0.006	85	446146	100.0	95.2	
65 Dibromomethane	93	8.303	8.303	0.000	86	193314	100.0	92.8	
67 1,4-Dioxane	88	8.303	8.309	-0.006	36	43188	2000.0	1686.7	
68 Dichlorobromomethane	83	8.497	8.497	0.000	97	611701	100.0	95.3	
71 cis-1,3-Dichloropropene	75	8.943	8.943	0.000	91	705609	100.0	95.4	
72 4-Methyl-2-pentanone (MIBK	43	9.096	9.096	0.000	99	382706	200.0	180.6	
73 Toluene	91	9.278	9.272	0.006	84	2302831	100.0	97.2	
74 trans-1,3-Dichloropropene	75	9.518	9.518	0.000	85	537003	100.0	94.2	
75 Ethyl methacrylate	69	9.571	9.571	0.000	93	367351	100.0	89.9	
76 1,1,2-Trichloroethane	97	9.712	9.712	0.000	96	281080	100.0	92.2	
77 Tetrachloroethene	164	9.789	9.788	0.001	92	565916	100.0	96.9	
78 1,3-Dichloropropane	76	9.877	9.876	0.001	91	476294	100.0	92.4	
79 2-Hexanone	43	9.929	9.929	0.000	99	261922	200.0	171.0	
81 Chlorodibromomethane	129	10.088	10.088	0.000	95	393628	100.0	95.4	
82 Ethylene Dibromide	107	10.205	10.205	0.000	99	259260	100.0	91.6	
83 Chlorobenzene	112	10.693	10.693	0.000	92	1484934	100.0	96.9	
84 1,1,1,2-Tetrachloroethane	131	10.787	10.787	0.001	96	538766	100.0	95.4	
85 Ethylbenzene	106	10.793	10.792	0.001	97	879084	100.0	98.2	
86 m-Xylene & p-Xylene	106	10.922	10.922	0.000	98	1076826	100.0	97.2	
88 o-Xylene	106	11.309	11.309	0.000	95	1027324	100.0	96.9	
89 Styrene	104	11.327	11.327	0.000	94	1604966	100.0	97.7	
90 Bromoform	173	11.509	11.509	0.000	97	221891	100.0	91.1	
91 Isopropylbenzene	105	11.673	11.673	0.000	95	2900005	100.0	98.7	
93 1,1,2,2-Tetrachloroethane	83	11.984	11.984	0.000	85	301262	100.0	87.7	
94 Bromobenzene	156	11.996	11.996	0.000	76	613186	100.0	97.1	
96 trans-1,4-Dichloro-2-buten	53	12.026	12.025	0.001	73	72741	100.0	91.0	
95 1,2,3-Trichloropropane	110	12.043	12.043	0.000	69	96030	100.0	90.0	
97 N-Propylbenzene	120	12.096	12.090	0.006	98	839020	100.0	101.2	
98 2-Chlorotoluene	126	12.184	12.184	0.000	95	677126	100.0	100.6	
99 1,3,5-Trimethylbenzene	105	12.272	12.272	0.000	97	2423402	100.0	100.5	
100 4-Chlorotoluene	126	12.307	12.307	0.000	97	683335	100.0	98.8	
101 tert-Butylbenzene	119	12.589	12.589	0.000	92	2260360	100.0	101.0	
103 1,2,4-Trimethylbenzene	105	12.654	12.654	0.000	98	2414386	100.0	100.2	
104 sec-Butylbenzene	105	12.818	12.818	0.000	98	3275358	100.0	100.8	
105 1,3-Dichlorobenzene	146	12.941	12.941	0.000	93	1305625	100.0	97.8	
106 4-Isopropyltoluene	119	12.971	12.971	0.000	95	2893590	100.0	100.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
107 1,4-Dichlorobenzene	146	13.041	13.041	0.000	92	1272755	100.0	97.1	
110 n-Butylbenzene	91	13.382	13.382	0.000	94	2539745	100.0	100.8	
111 1,2-Dichlorobenzene	146	13.399	13.399	0.000	91	1117456	100.0	95.9	
112 1,2-Dibromo-3-Chloropropan	157	14.198	14.198	0.000	83	65591	100.0	86.5	
114 1,2,4-Trichlorobenzene	180	15.020	15.020	0.000	93	903641	100.0	93.8	
115 Hexachlorobutadiene	225	15.167	15.167	0.000	90	672384	100.0	98.9	
116 Naphthalene	128	15.296	15.296	0.000	98	1171799	100.0	97.1	
117 1,2,3-Trichlorobenzene	180	15.537	15.536	0.001	90	743456	100.0	93.1	
S 130 1,2-Dichloroethene, Total	96				0		200.0	192.0	
S 129 Xylenes, Total	106				0		200.0	194.0	
S 145 Total BTEX	1				0			486.0	
S 131 1,3-Dichloropropene, Total	1				0		200.0	189.5	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

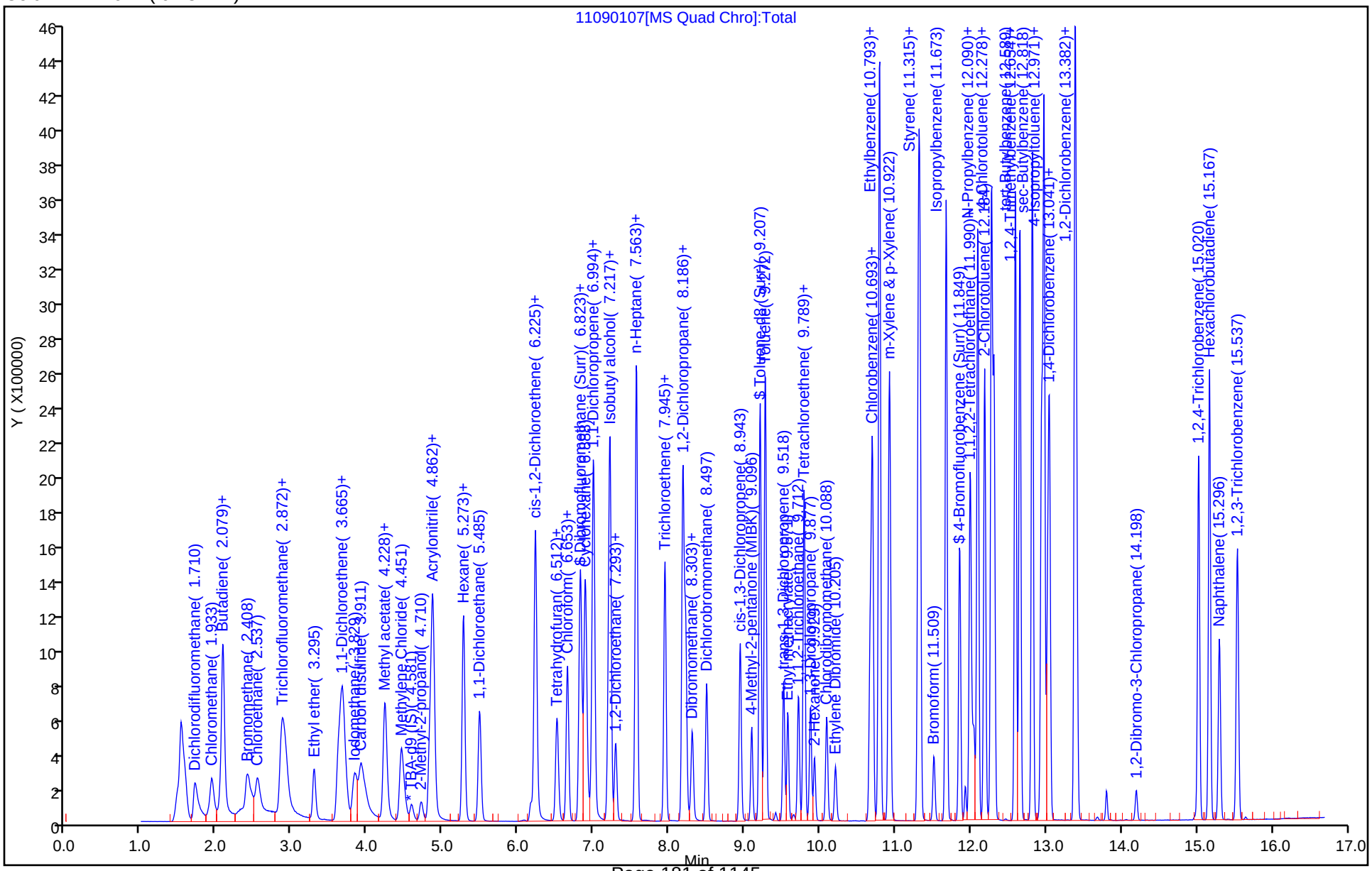
VOA8260SURR_00086	Amount Added:	4.00	Units: uL
VOA8260INT_00086	Amount Added:	2.00	Units: uL
voaWKet2ndRes_00029	Amount Added:	4.00	Units: uL
VOA8260VOA2ND_00309	Amount Added:	4.00	Units: uL

Report Date: 04-Sep-2018 06:59:24 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP11\20180901-23450.b\11090107.D				
Injection Date:	01-Sep-2018 13:50:56	Instrument ID:	CHHP11	Operator ID:	Patrick Journet
Lims ID:	ic			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSVOA_CHHP11	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh

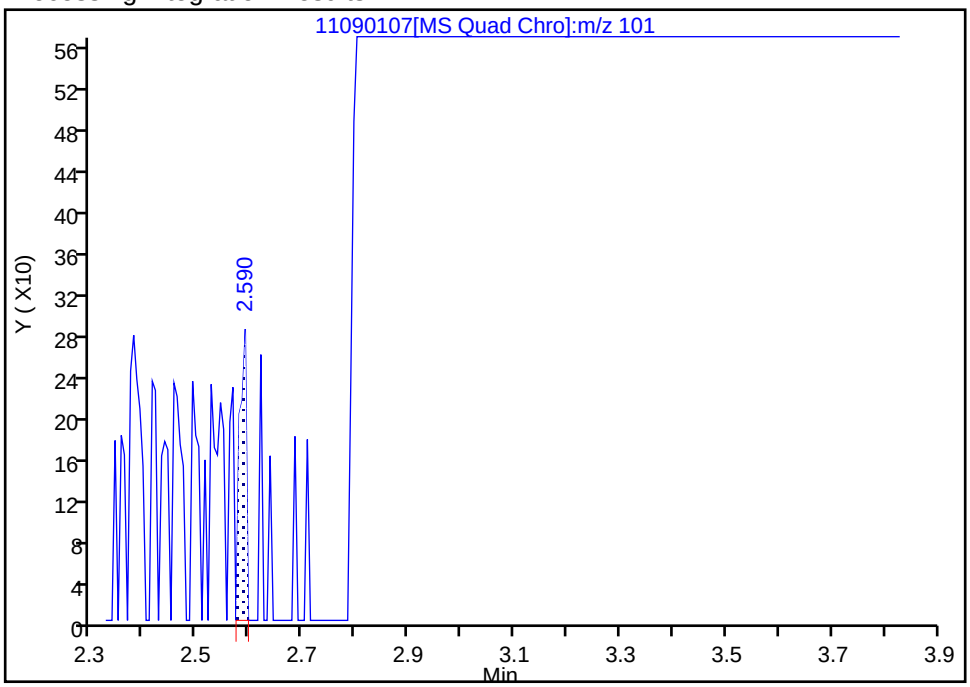
Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP11\20180901-23450.b\11090107.D				
Injection Date:	01-Sep-2018 13:50:56	Instrument ID:	CHHP11		
Lims ID:	ic				
Client ID:					
Operator ID:	Patrick Journet	ALS Bottle#:	0	Worklist Smp#:	7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP11	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

16 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

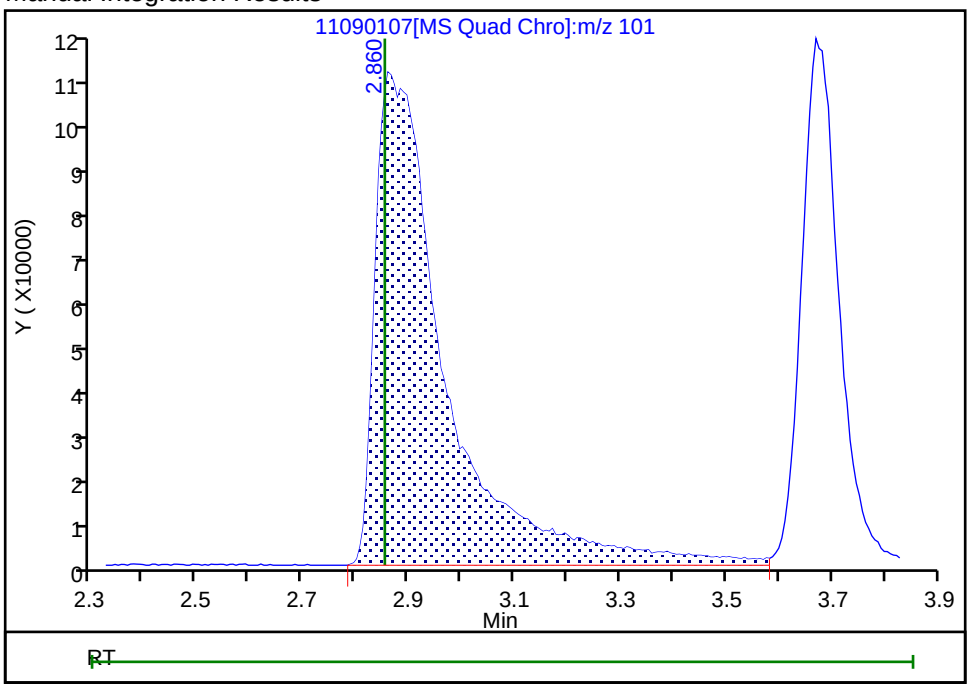
Processing Integration Results

RT: 2.59
Area: 247
Amount: 0.030680
Amount Units: ng



Manual Integration Results

RT: 2.86
Area: 964762
Amount: 98.249643
Amount Units: ng



Reviewer: journetp, 01-Sep-2018 14:41:12
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Pittsburgh

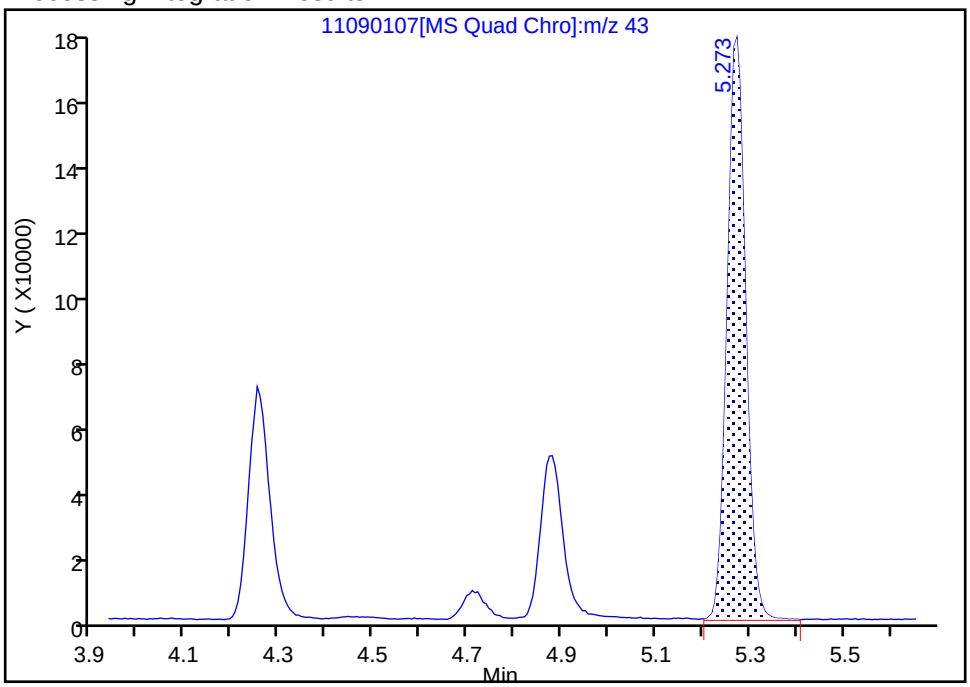
Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP11\20180901-23450.b\11090107.D				
Injection Date:	01-Sep-2018 13:50:56	Instrument ID:	CHHP11		
Lims ID:	ic				
Client ID:					
Operator ID:	Patrick Journet	ALS Bottle#:	0	Worklist Smp#:	7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP11	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

28 Methyl acetate, CAS: 79-20-9

Signal: 1

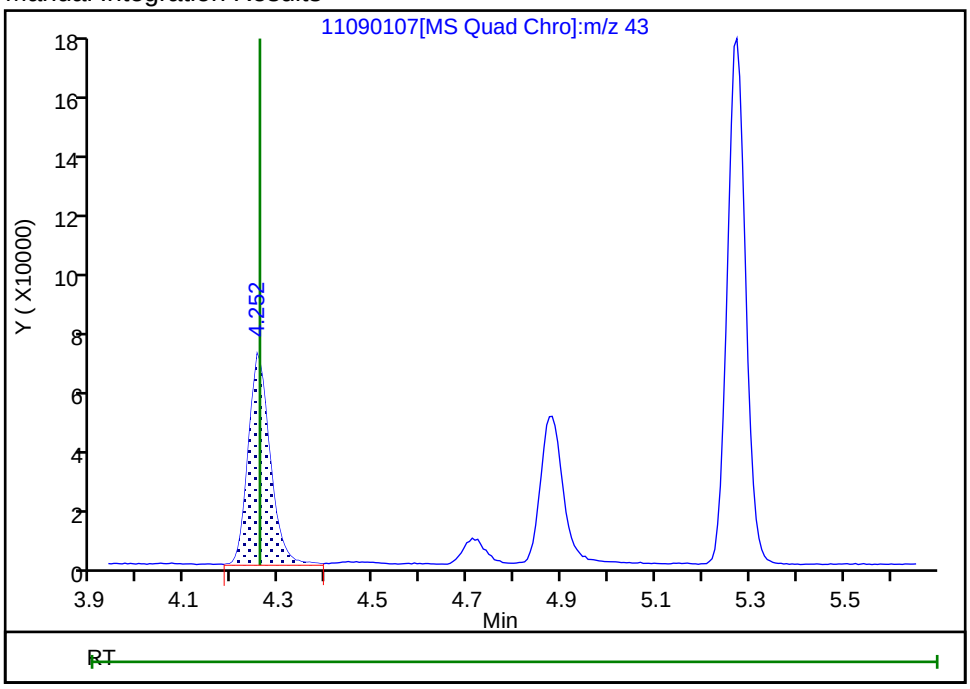
Processing Integration Results

RT: 5.27
Area: 493688
Amount: 316.3508
Amount Units: ng



Manual Integration Results

RT: 4.25
Area: 233040
Amount: 175.0314
Amount Units: ng



Reviewer: journetp, 01-Sep-2018 14:41:32
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Pittsburgh

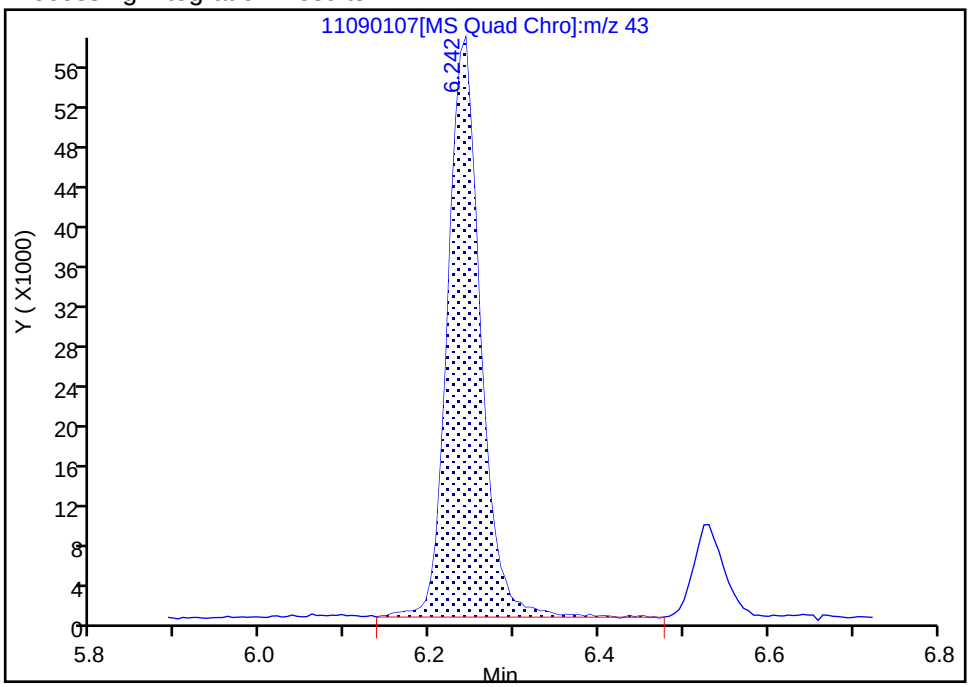
Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP11\20180901-23450.b\11090107.D				
Injection Date:	01-Sep-2018 13:50:56	Instrument ID:	CHHP11		
Lims ID:	ic				
Client ID:					
Operator ID:	Patrick Journet	ALS Bottle#:	0	Worklist Smp#:	7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP11	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

43 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

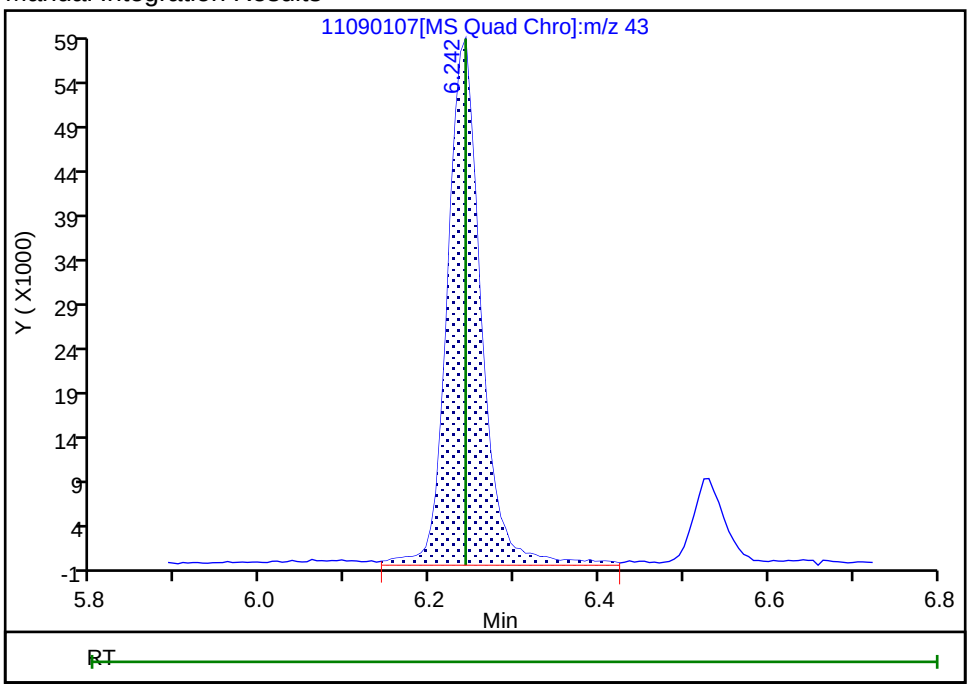
Processing Integration Results

RT: 6.24
Area: 155484
Amount: 175.4853
Amount Units: ng



Manual Integration Results

RT: 6.24
Area: 161003
Amount: 182.0550
Amount Units: ng



Reviewer: journetp, 01-Sep-2018 17:59:01

Audit Action: Manually Integrated Audit Reason: Poor chromatography

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP11\20180901-23450.b\11090108.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 01-Sep-2018 14:18:05 ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 180-0023450-008
Operator ID: Patrick Journet Instrument ID: CHHP11
Sublist: chrom-MSVOA_CHHP11*sub1

Method: \\ChromNA\Pittsburgh\ChromData\CHHP11\20180901-23450.b\MSVOA_CHHP11.m
Limit Group: VOA 8260C ICAL
Last Update: 04-Sep-2018 07:16:15 Calib Date: 01-Sep-2018 15:12:00
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP11\20180901-23450.b\11090110.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: journetp Date: 04-Sep-2018 07:16:15

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.592	4.586	0.006	91	318956	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.557	7.557	0.000	82	1069711	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.663	10.663	0.000	83	256137	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	13.018	13.018	0.000	88	430895	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.829	6.829	0.000	53	888307	175.0	175.1	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.205	7.205	0.000	0	808549	175.0	181.1	
$ 7 Toluene-d8 (Surr)	98	9.207	9.207	0.000	93	3635351	175.0	169.6	
$ 8 4-Bromofluorobenzene (Surr	95	11.855	11.849	0.006	94	1266087	175.0	171.9	
10 Dichlorodifluoromethane	85	1.715	1.709	0.006	87	1335421	175.0	166.5	
11 Chloromethane	50	1.944	1.927	0.017	82	1063888	175.0	173.0	
12 Vinyl chloride	62	2.068	2.056	0.012	77	1238003	175.0	165.9	
13 Butadiene	39	2.085	2.079	0.006	94	1100877	175.0	163.5	
14 Bromomethane	94	2.408	2.402	0.006	87	611419	175.0	159.7	
15 Chloroethane	64	2.537	2.525	0.012	93	720434	175.0	169.5	
16 Trichlorofluoromethane	101	2.872	2.854	0.018	86	1775971	175.0	172.1	
17 Dichlorofluoromethane	67	2.878	2.872	0.006	72	1794715	175.0	162.0	
18 Ethyl ether	59	3.295	3.289	0.006	92	571891	175.0	183.0	
20 1,1-Dichloroethene	96	3.629	3.618	0.011	94	947258	175.0	167.7	
21 1,1,2-Trichloro-1,2,2-trif	101	3.676	3.665	0.011	71	1031633	175.0	167.7	
22 Acetone	43	3.735	3.729	0.006	47	248622	350.0	386.7	
23 Iodomethane	142	3.829	3.829	0.000	54	1681557	175.0	170.3	
24 Carbon disulfide	76	3.917	3.911	0.006	97	2863516	175.0	168.5	
26 3-Chloro-1-propene	76	4.228	4.222	0.006	86	766162	175.0	176.5	
28 Methyl acetate	43	4.258	4.258	0.000	66	541861	350.0	387.3	
29 Methylene Chloride	84	4.451	4.445	0.006	92	909267	175.0	178.1	
32 2-Methyl-2-propanol	59	4.716	4.721	-0.005	80	601515	1750.0	1739.2	
31 Acrylonitrile	53	4.827	4.827	0.000	93	1371219	1750.0	1942.3	
30 trans-1,2-Dichloroethene	96	4.862	4.856	0.006	34	1070090	175.0	168.4	
33 Methyl tert-butyl ether	73	4.880	4.880	0.000	24	1872643	175.0	189.4	
34 Hexane	57	5.273	5.267	0.006	97	1482095	175.0	162.4	
36 1,1-Dichloroethane	63	5.485	5.485	0.000	97	1602367	175.0	169.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
42 2,2-Dichloropropane	97	6.225	6.224	0.001	17	297996	175.0	165.1	
41 cis-1,2-Dichloroethene	96	6.225	6.224	0.001	78	1081410	175.0	170.8	
43 2-Butanone (MEK)	43	6.236	6.242	-0.006	32	384233	350.0	371.8	
46 Chlorobromomethane	128	6.506	6.512	-0.006	84	435862	175.0	179.8	
48 Tetrahydrofuran	42	6.524	6.530	-0.006	58	249607	350.0	369.1	
49 Chloroform	83	6.653	6.647	0.006	97	1660166	175.0	168.7	
50 1,1,1-Trichloroethane	97	6.818	6.812	0.006	88	1711026	175.0	168.3	
52 Cyclohexane	56	6.888	6.888	0.000	94	1718434	175.0	166.5	
53 Carbon tetrachloride	117	6.988	6.988	0.000	81	1591758	175.0	170.2	
54 1,1-Dichloropropene	75	7.000	6.999	0.001	84	1416143	175.0	167.4	
51 Isobutyl alcohol	41	7.188	7.187	0.001	91	431020	4375.0	5051.0	
55 Benzene	78	7.217	7.217	0.000	86	3698518	175.0	168.8	
56 1,2-Dichloroethane	62	7.293	7.287	0.006	96	956649	175.0	181.4	
59 n-Heptane	43	7.569	7.569	0.000	91	1544495	175.0	166.4	
60 Trichloroethene	130	7.945	7.945	0.000	90	1191944	175.0	168.8	
63 Methylcyclohexane	83	8.186	8.180	0.006	92	1966986	175.0	169.1	
64 1,2-Dichloropropane	63	8.221	8.215	0.006	88	850601	175.0	172.7	
65 Dibromomethane	93	8.309	8.303	0.006	85	403226	175.0	184.1	
67 1,4-Dioxane	88	8.303	8.309	-0.006	36	96325	3500.0	3579.8	
68 Dichlorobromomethane	83	8.497	8.497	0.000	97	1195602	175.0	177.3	
71 cis-1,3-Dichloropropene	75	8.943	8.943	0.000	92	1385288	175.0	178.2	
72 4-Methyl-2-pentanone (MIBK	43	9.096	9.096	0.000	98	947984	350.0	370.6	
73 Toluene	91	9.278	9.272	0.006	94	4183928	175.0	165.4	
74 trans-1,3-Dichloropropene	75	9.518	9.518	0.000	85	1104293	175.0	181.3	
75 Ethyl methacrylate	69	9.577	9.571	0.006	93	816815	175.0	187.2	
76 1,1,2-Trichloroethane	97	9.718	9.712	0.006	95	585799	175.0	179.9	
77 Tetrachloroethene	164	9.789	9.788	0.001	93	1040599	175.0	166.8	
78 1,3-Dichloropropane	76	9.877	9.876	0.001	91	997418	175.0	181.1	
79 2-Hexanone	43	9.929	9.929	0.000	99	646026	350.0	380.2	
81 Chlorodibromomethane	129	10.088	10.088	0.000	93	818833	175.0	186.6	
82 Ethylene Dibromide	107	10.205	10.205	0.000	99	557379	175.0	184.4	
83 Chlorobenzene	112	10.693	10.693	0.000	92	2735788	175.0	167.2	
84 1,1,1,2-Tetrachloroethane	131	10.787	10.787	0.001	97	1032290	175.0	171.1	
85 Ethylbenzene	106	10.793	10.792	0.001	97	1590236	175.0	166.4	
86 m-Xylene & p-Xylene	106	10.922	10.922	0.000	97	1949134	175.0	164.7	
88 o-Xylene	106	11.309	11.309	0.000	95	1889813	175.0	166.8	
89 Styrene	104	11.327	11.327	0.000	94	2972792	175.0	169.4	
90 Bromoform	173	11.515	11.509	0.006	97	491543	175.0	189.0	
91 Isopropylbenzene	105	11.673	11.673	0.000	97	5150407	175.0	164.1	
93 1,1,2,2-Tetrachloroethane	83	11.984	11.984	0.000	90	676653	175.0	184.5	
94 Bromobenzene	156	11.996	11.996	0.000	82	1169693	175.0	167.4	
96 trans-1,4-Dichloro-2-buten	53	12.026	12.025	0.001	82	162134	175.0	183.4	
95 1,2,3-Trichloropropane	110	12.043	12.043	0.000	69	212677	175.0	180.1	
97 N-Propylbenzene	120	12.096	12.090	0.006	98	1483191	175.0	161.7	
98 2-Chlorotoluene	126	12.184	12.184	0.000	97	1210013	175.0	162.5	
99 1,3,5-Trimethylbenzene	105	12.278	12.272	0.006	98	4303534	175.0	161.3	
100 4-Chlorotoluene	126	12.307	12.307	0.000	96	1236368	175.0	161.7	
101 tert-Butylbenzene	119	12.595	12.589	0.006	92	3992869	175.0	161.3	
103 1,2,4-Trimethylbenzene	105	12.654	12.654	0.000	98	4296463	175.0	161.3	
104 sec-Butylbenzene	105	12.818	12.818	0.000	98	5775941	175.0	160.7	
105 1,3-Dichlorobenzene	146	12.941	12.941	0.000	93	2376267	175.0	161.0	
106 4-Isopropyltoluene	119	12.971	12.971	0.000	93	5122976	175.0	161.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
107 1,4-Dichlorobenzene	146	13.041	13.041	0.000	91	2340715	175.0	161.5	
110 n-Butylbenzene	91	13.382	13.382	0.000	95	4394947	175.0	157.7	
111 1,2-Dichlorobenzene	146	13.399	13.399	0.000	90	2113918	175.0	163.9	
112 1,2-Dibromo-3-Chloropropan	157	14.198	14.198	0.000	83	157866	175.0	188.2	
114 1,2,4-Trichlorobenzene	180	15.020	15.020	0.000	85	1714106	175.0	160.8	
115 Hexachlorobutadiene	225	15.167	15.167	0.000	90	1188011	175.0	157.9	
116 Naphthalene	128	15.296	15.296	0.000	98	2516311	175.0	193.2	
117 1,2,3-Trichlorobenzene	180	15.537	15.536	0.001	92	1462551	175.0	165.6	
S 129 Xylenes, Total	106				0		350.0	331.5	
S 130 1,2-Dichloroethene, Total	96				0		350.0	339.1	
S 131 1,3-Dichloropropene, Total	1				0		350.0	359.5	
S 145 Total BTEX	1				0			832.2	

Reagents:

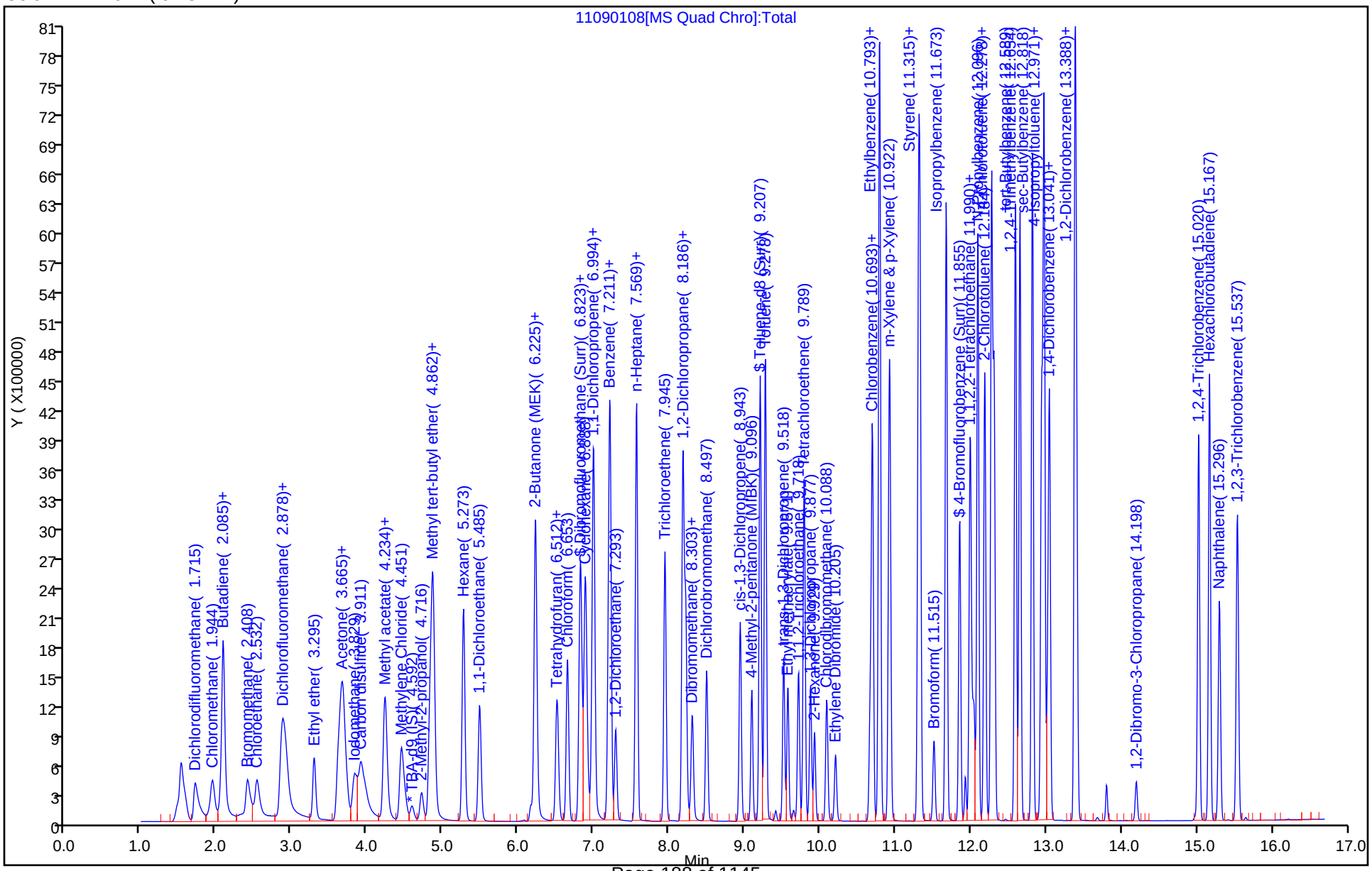
VOA8260SURR_00086	Amount Added:	7.00	Units: uL
VOA8260INT_00086	Amount Added:	2.00	Units: uL
voaWKet2ndRes_00029	Amount Added:	7.00	Units: uL
VOA8260VOA2ND_00309	Amount Added:	7.00	Units: uL

Report Date: 04-Sep-2018 07:16:17 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP11\20180901-23450.b\11090108.D				
Injection Date:	01-Sep-2018 14:18:05	Instrument ID:	CHHP11	Operator ID:	Patrick Journet
Lims ID:	IC			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSVOA_CHHP11	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP11\20180901-23450.b\11090109.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 01-Sep-2018 14:45:15 ALS Bottle#: 0 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 180-0023450-009
Operator ID: Patrick Journet Instrument ID: CHHP11
Sublist: chrom-MSVOA_CHHP11*sub1

Method: \\ChromNA\Pittsburgh\ChromData\CHHP11\20180901-23450.b\MSVOA_CHHP11.m
Limit Group: VOA 8260C ICAL
Last Update: 04-Sep-2018 06:59:13 Calib Date: 01-Sep-2018 15:12:00
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP11\20180901-23450.b\11090110.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: journetp Date: 01-Sep-2018 17:54:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.586	4.586	0.000	83	257018	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.557	7.557	0.000	74	996072	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.663	10.663	0.000	69	243774	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	13.018	13.018	0.000	87	417118	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.829	6.829	0.000	49	973788	200.0	206.1	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.205	7.205	0.000	0	865101	200.0	208.0	
$ 7 Toluene-d8 (Surr)	98	9.207	9.207	0.000	92	4009537	200.0	196.5	
$ 8 4-Bromofluorobenzene (Surr	95	11.855	11.849	0.006	93	1406255	200.0	200.7	
10 Dichlorodifluoromethane	85	1.715	1.709	0.006	87	1527983	200.0	204.6	
11 Chloromethane	50	1.944	1.927	0.017	88	1228612	200.0	215.2	
12 Vinyl chloride	62	2.062	2.056	0.006	78	1411267	200.0	203.0	
13 Butadiene	39	2.085	2.079	0.006	94	1251541	200.0	199.6	
14 Bromomethane	94	2.414	2.402	0.012	82	765552	200.0	215.7	
15 Chloroethane	64	2.543	2.525	0.018	86	811964	200.0	205.1	
16 Trichlorofluoromethane	101	2.884	2.854	0.030	86	2040272	200.0	212.3	
17 Dichlorofluoromethane	67	2.878	2.872	0.006	72	2060076	200.0	199.8	
18 Ethyl ether	59	3.295	3.289	0.006	92	615783	200.0	211.6	
20 1,1-Dichloroethene	96	3.629	3.618	0.011	94	1084631	200.0	206.2	
21 1,1,2-Trichloro-1,2,2-trif	101	3.676	3.665	0.011	70	1182970	200.0	206.5	
22 Acetone	43	3.729	3.729	0.000	77	242214	400.0	404.5	
23 Iodomethane	142	3.841	3.829	0.012	57	1912039	200.0	207.9	
24 Carbon disulfide	76	3.923	3.911	0.012	98	3250822	200.0	205.5	
26 3-Chloro-1-propene	76	4.234	4.222	0.012	84	898270	200.0	222.3	
28 Methyl acetate	43	4.258	4.258	0.000	55	548019	400.0	420.6	
29 Methylene Chloride	84	4.451	4.445	0.006	92	1008768	200.0	214.4	
32 2-Methyl-2-propanol	59	4.716	4.721	-0.005	80	542389	2000.0	1968.7	
31 Acrylonitrile	53	4.827	4.827	0.000	93	1397488	2000.0	2125.8	
30 trans-1,2-Dichloroethene	96	4.862	4.856	0.006	35	1227710	200.0	207.5	
33 Methyl tert-butyl ether	73	4.880	4.880	0.000	80	1987444	200.0	215.8	
34 Hexane	57	5.273	5.267	0.006	98	1720867	200.0	202.5	
36 1,1-Dichloroethane	63	5.485	5.485	0.000	97	1841557	200.0	208.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
41 cis-1,2-Dichloroethene	96	6.224	6.224	0.000	78	1232585	200.0	209.0	
42 2,2-Dichloropropane	97	6.224	6.224	0.000	21	341230	200.0	203.0	
43 2-Butanone (MEK)	43	6.236	6.242	-0.006	30	375538	400.0	387.2	
46 Chlorobromomethane	128	6.512	6.512	0.000	85	482865	200.0	213.9	
48 Tetrahydrofuran	42	6.530	6.530	0.000	65	248607	400.0	389.2	
49 Chloroform	83	6.653	6.647	0.006	97	1898422	200.0	207.2	
50 1,1,1-Trichloroethane	97	6.817	6.812	0.005	88	1968514	200.0	207.9	
52 Cyclohexane	56	6.888	6.888	0.000	93	1980138	200.0	206.0	
53 Carbon tetrachloride	117	6.988	6.988	0.000	72	1829124	200.0	210.0	
54 1,1-Dichloropropene	75	6.999	6.999	0.000	84	1634089	200.0	207.4	
51 Isobutyl alcohol	41	7.187	7.187	0.000	89	407362	5000.0	5126.7	
55 Benzene	78	7.217	7.217	0.000	87	4234780	200.0	207.6	
56 1,2-Dichloroethane	62	7.293	7.287	0.006	96	1037862	200.0	211.3	
59 n-Heptane	43	7.569	7.569	0.000	89	1775618	200.0	205.4	
60 Trichloroethene	130	7.945	7.945	0.000	90	1383019	200.0	210.3	
63 Methylcyclohexane	83	8.185	8.180	0.005	92	2253707	200.0	208.0	
64 1,2-Dichloropropane	63	8.221	8.215	0.006	88	961151	200.0	209.5	
65 Dibromomethane	93	8.309	8.303	0.006	85	435276	200.0	213.4	
67 1,4-Dioxane	88	8.309	8.309	0.000	34	97772	4000.0	3902.2	
68 Dichlorobromomethane	83	8.497	8.497	0.000	97	1333291	200.0	212.3	
71 cis-1,3-Dichloropropene	75	8.943	8.943	0.000	91	1547131	200.0	213.7	
72 4-Methyl-2-pentanone (MIBK	43	9.096	9.096	0.000	98	954459	400.0	388.1	
73 Toluene	91	9.278	9.272	0.006	88	4800083	200.0	199.4	
74 trans-1,3-Dichloropropene	75	9.518	9.518	0.000	85	1212250	200.0	209.1	
75 Ethyl methacrylate	69	9.577	9.571	0.006	93	859502	200.0	206.9	
76 1,1,2-Trichloroethane	97	9.718	9.712	0.006	95	630692	200.0	203.5	
77 Tetrachloroethene	164	9.794	9.788	0.006	92	1215887	200.0	204.8	
78 1,3-Dichloropropane	76	9.876	9.876	0.000	91	1081587	200.0	206.4	
79 2-Hexanone	43	9.929	9.929	0.000	99	658797	400.0	406.6	
81 Chlorodibromomethane	129	10.088	10.088	0.000	95	892668	200.0	213.9	
82 Ethylene Dibromide	107	10.205	10.205	0.000	99	599266	200.0	208.3	
83 Chlorobenzene	112	10.693	10.693	0.000	78	3123004	200.0	200.5	
84 1,1,1,2-Tetrachloroethane	131	10.787	10.787	0.000	95	1151219	200.0	200.5	
85 Ethylbenzene	106	10.792	10.792	0.000	97	1842037	200.0	202.5	
86 m-Xylene & p-Xylene	106	10.922	10.922	0.000	97	2262210	200.0	200.9	
88 o-Xylene	106	11.309	11.309	0.000	96	2163897	200.0	200.7	
89 Styrene	104	11.327	11.327	0.000	93	3393539	200.0	203.2	
90 Bromoform	173	11.515	11.509	0.006	96	517850	200.0	209.3	
91 Isopropylbenzene	105	11.673	11.673	0.000	96	5932700	200.0	198.6	
93 1,1,2,2-Tetrachloroethane	83	11.990	11.984	0.006	85	700679	200.0	200.8	
94 Bromobenzene	156	11.996	11.996	0.000	82	1326248	200.0	196.1	
96 trans-1,4-Dichloro-2-buten	53	12.025	12.025	0.000	82	170910	200.0	199.7	
95 1,2,3-Trichloropropane	110	12.043	12.043	0.000	69	221093	200.0	193.5	
97 N-Propylbenzene	120	12.096	12.090	0.006	98	1740687	200.0	196.0	
98 2-Chlorotoluene	126	12.184	12.184	0.000	97	1400394	200.0	194.2	
99 1,3,5-Trimethylbenzene	105	12.278	12.272	0.006	98	4959885	200.0	192.1	
100 4-Chlorotoluene	126	12.307	12.307	0.000	97	1439210	200.0	194.4	
101 tert-Butylbenzene	119	12.595	12.589	0.006	92	4619366	200.0	192.8	
103 1,2,4-Trimethylbenzene	105	12.654	12.654	0.000	98	4937797	200.0	191.5	
104 sec-Butylbenzene	105	12.818	12.818	0.000	98	6663846	200.0	191.5	
105 1,3-Dichlorobenzene	146	12.941	12.941	0.000	93	2739741	200.0	191.7	
106 4-Isopropyltoluene	119	12.971	12.971	0.000	92	5919982	200.0	192.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
107 1,4-Dichlorobenzene	146	13.041	13.041	0.000	91	2685257	200.0	191.4	
110 n-Butylbenzene	91	13.382	13.382	0.000	94	5116211	200.0	189.6	
111 1,2-Dichlorobenzene	146	13.405	13.399	0.006	78	2371884	200.0	190.0	
112 1,2-Dibromo-3-Chloropropan	157	14.198	14.198	0.000	82	162440	200.0	200.0	
114 1,2,4-Trichlorobenzene	180	15.020	15.020	0.000	92	1921733	200.0	186.3	
115 Hexachlorobutadiene	225	15.167	15.167	0.000	90	1368969	200.0	188.0	
116 Naphthalene	128	15.296	15.296	0.000	97	2640089	200.0	209.8	
117 1,2,3-Trichlorobenzene	180	15.536	15.536	0.000	92	1593245	200.0	186.3	
S 130 1,2-Dichloroethene, Total	96				0		400.0	416.5	
S 129 Xylenes, Total	106				0		400.0	401.6	
S 145 Total BTEX	1				0			1011.1	
S 131 1,3-Dichloropropene, Total	1				0		400.0	422.9	

Reagents:

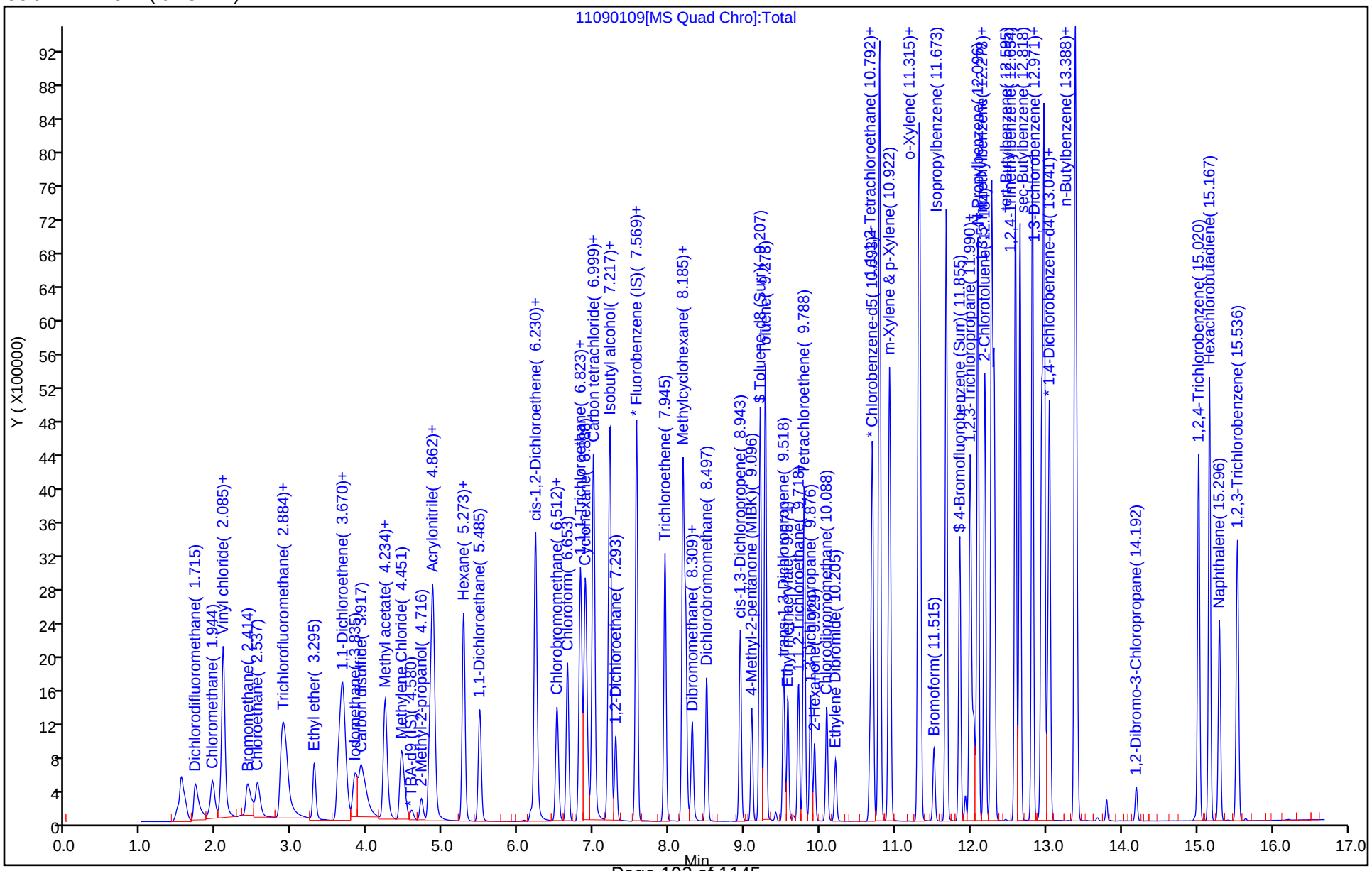
VOA8260SURR_00086 Amount Added: 8.00 Units: uL
VOA8260INT_00086 Amount Added: 2.00 Units: uL
voaWKet2ndRes_00029 Amount Added: 8.00 Units: uL
VOA8260VOA2ND_00309 Amount Added: 8.00 Units: uL

Report Date: 04-Sep-2018 06:59:14 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP11\20180901-23450.b\11090109.D				
Injection Date:	01-Sep-2018 14:45:15	Instrument ID:	CHHP11	Operator ID:	Patrick Journet
Lims ID:	IC			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSVOA_CHHP11	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP11\20180901-23450.b\11090110.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 01-Sep-2018 15:12:00 ALS Bottle#: 0 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 180-0023450-010
Operator ID: Patrick Journet Instrument ID: CHHP11
Sublist: chrom-MSVOA_CHHP11*sub1

Method: \\ChromNA\Pittsburgh\ChromData\CHHP11\20180901-23450.b\MSVOA_CHHP11.m
Limit Group: VOA 8260C ICAL
Last Update: 04-Sep-2018 06:59:09 Calib Date: 01-Sep-2018 15:12:00
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP11\20180901-23450.b\11090110.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: journetp Date: 01-Sep-2018 17:55:31

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.592	4.586	0.006	92	202499	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.557	7.557	0.000	68	975112	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.663	10.663	0.000	69	235387	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	13.018	13.018	0.000	85	396410	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.829	6.829	0.000	47	1135546	250.0	245.6	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.205	7.205	0.000	0	962214	250.0	236.4	
$ 7 Toluene-d8 (Surr)	98	9.207	9.207	0.000	92	4712111	250.0	239.2	
$ 8 4-Bromofluorobenzene (Surr	95	11.855	11.849	0.006	94	1624955	250.0	240.1	
10 Dichlorodifluoromethane	85	1.715	1.709	0.006	87	1810300	250.0	247.6	
11 Chloromethane	50	1.944	1.927	0.017	82	1490844	250.0	267.3	
12 Vinyl chloride	62	2.062	2.056	0.006	78	1683610	250.0	247.4	
13 Butadiene	39	2.085	2.079	0.006	93	1485305	250.0	242.0	
14 Bromomethane	94	2.408	2.402	0.006	83	888323	250.0	256.3	
15 Chloroethane	64	2.531	2.525	0.006	93	948548	250.0	244.8	
16 Trichlorofluoromethane	101	2.860	2.854	0.006	83	2437950	250.0	259.2	
17 Dichlorofluoromethane	67	2.878	2.872	0.006	88	2485218	250.0	246.2	
18 Ethyl ether	59	3.295	3.289	0.006	92	684776	250.0	240.4	
20 1,1-Dichloroethene	96	3.623	3.618	0.005	94	1276614	250.0	248.0	
21 1,1,2-Trichloro-1,2,2-trif	101	3.676	3.665	0.011	72	1399497	250.0	249.6	
22 Acetone	43	3.723	3.729	-0.006	68	259074	500.0	442.0	
23 Iodomethane	142	3.841	3.829	0.012	56	2282945	250.0	253.6	
24 Carbon disulfide	76	3.923	3.911	0.012	99	3908032	250.0	252.3	
26 3-Chloro-1-propene	76	4.228	4.222	0.006	80	1037061	250.0	262.1	
28 Methyl acetate	43	4.258	4.258	0.000	51	570483	500.0	447.3	
29 Methylene Chloride	84	4.451	4.445	0.006	92	1167064	250.0	255.4	
32 2-Methyl-2-propanol	59	4.716	4.721	-0.005	80	531813	2500.0	2518.4	
31 Acrylonitrile	53	4.827	4.827	0.000	92	1483438	2500.0	2305.1	
30 trans-1,2-Dichloroethene	96	4.862	4.856	0.006	34	1447628	250.0	249.9	
33 Methyl tert-butyl ether	73	4.880	4.880	0.000	80	2179783	250.0	241.8	
34 Hexane	57	5.273	5.267	0.006	98	1992985	250.0	239.6	
36 1,1-Dichloroethane	63	5.485	5.485	0.000	97	2159886	250.0	249.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
42 2,2-Dichloropropane	97	6.230	6.224	0.006	19	414694	250.0	252.0	
41 cis-1,2-Dichloroethene	96	6.224	6.224	0.000	77	1445715	250.0	250.4	
43 2-Butanone (MEK)	43	6.242	6.242	0.000	30	389584	500.0	406.3	
46 Chlorobromomethane	128	6.512	6.512	0.000	84	542696	250.0	245.5	
48 Tetrahydrofuran	42	6.530	6.530	0.000	62	251536	500.0	399.4	
49 Chloroform	83	6.653	6.647	0.006	96	2219521	250.0	247.4	
50 1,1,1-Trichloroethane	97	6.818	6.812	0.006	89	2327626	250.0	251.1	
52 Cyclohexane	56	6.888	6.888	0.000	93	2308783	250.0	245.3	
53 Carbon tetrachloride	117	6.988	6.988	0.000	77	2147620	250.0	251.8	
54 1,1-Dichloropropene	75	7.000	6.999	0.001	82	1902735	250.0	246.7	
51 Isobutyl alcohol	41	7.187	7.187	0.000	83	397951	6250.0	5115.9	
55 Benzene	78	7.217	7.217	0.000	86	4947651	250.0	247.8	
56 1,2-Dichloroethane	62	7.293	7.287	0.006	96	1173004	250.0	243.9	
59 n-Heptane	43	7.569	7.569	0.000	88	2066921	250.0	244.3	
60 Trichloroethene	130	7.945	7.945	0.000	90	1618213	250.0	251.4	
63 Methylcyclohexane	83	8.186	8.180	0.006	92	2637046	250.0	248.7	
64 1,2-Dichloropropane	63	8.221	8.215	0.006	87	1113474	250.0	247.9	
65 Dibromomethane	93	8.303	8.303	0.000	85	483055	250.0	241.9	
67 1,4-Dioxane	88	8.303	8.309	-0.006	35	98845	5000.0	4029.8	
68 Dichlorobromomethane	83	8.497	8.497	0.000	97	1530081	250.0	248.9	
71 cis-1,3-Dichloropropene	75	8.943	8.943	0.000	91	1760742	250.0	248.5	
72 4-Methyl-2-pentanone (MIBK	43	9.096	9.096	0.000	99	991535	500.0	411.9	
73 Toluene	91	9.278	9.272	0.006	94	5636695	250.0	242.5	
74 trans-1,3-Dichloropropene	75	9.518	9.518	0.000	85	1350581	250.0	241.3	
75 Ethyl methacrylate	69	9.571	9.571	0.000	93	915545	250.0	228.3	
76 1,1,2-Trichloroethane	97	9.718	9.712	0.006	95	701128	250.0	234.3	
77 Tetrachloroethene	164	9.788	9.788	0.000	92	1421941	250.0	248.1	
78 1,3-Dichloropropane	76	9.876	9.876	0.000	92	1194574	250.0	236.1	
79 2-Hexanone	43	9.929	9.929	0.000	98	675760	500.0	431.3	
81 Chlorodibromomethane	129	10.088	10.088	0.000	95	991958	250.0	246.3	
82 Ethylene Dibromide	107	10.205	10.205	0.000	99	654844	250.0	235.7	
83 Chlorobenzene	112	10.698	10.693	0.005	76	3644953	250.0	242.4	
84 1,1,1,2-Tetrachloroethane	131	10.787	10.787	0.001	28	1347572	250.0	243.0	a
85 Ethylbenzene	106	10.792	10.792	0.000	97	2157759	250.0	245.6	
86 m-Xylene & p-Xylene	106	10.922	10.922	0.000	98	2654458	250.0	244.1	
88 o-Xylene	106	11.309	11.309	0.000	96	2543329	250.0	244.3	
89 Styrene	104	11.327	11.327	0.000	93	3951116	250.0	245.0	
90 Bromoform	173	11.515	11.509	0.006	96	572034	250.0	239.4	
91 Isopropylbenzene	105	11.673	11.673	0.000	97	6989791	250.0	242.3	
93 1,1,2,2-Tetrachloroethane	83	11.984	11.984	0.000	88	750494	250.0	222.7	
94 Bromobenzene	156	11.996	11.996	0.000	79	1539011	250.0	239.4	
96 trans-1,4-Dichloro-2-buten	53	12.025	12.025	0.000	80	180527	250.0	222.0	
95 1,2,3-Trichloropropane	110	12.043	12.043	0.000	69	235825	250.0	217.1	
97 N-Propylbenzene	120	12.096	12.090	0.006	98	2055431	250.0	243.6	
98 2-Chlorotoluene	126	12.190	12.184	0.006	97	1648347	250.0	240.6	
99 1,3,5-Trimethylbenzene	105	12.278	12.272	0.006	98	5860515	250.0	238.8	
100 4-Chlorotoluene	126	12.307	12.307	0.000	97	1695092	250.0	240.9	
101 tert-Butylbenzene	119	12.595	12.589	0.006	92	5477359	250.0	240.5	
103 1,2,4-Trimethylbenzene	105	12.654	12.654	0.000	98	5819891	250.0	237.4	
104 sec-Butylbenzene	105	12.818	12.818	0.000	98	7854419	250.0	237.5	
105 1,3-Dichlorobenzene	146	12.941	12.941	0.000	93	3213574	250.0	236.6	
106 4-Isopropyltoluene	119	12.971	12.971	0.000	95	7012668	250.0	239.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
107 1,4-Dichlorobenzene	146	13.041	13.041	0.000	91	3127922	250.0	234.6	
110 n-Butylbenzene	91	13.382	13.382	0.000	94	6053719	250.0	236.1	
111 1,2-Dichlorobenzene	146	13.405	13.399	0.006	79	2761522	250.0	232.8	
112 1,2-Dibromo-3-Chloropropan	157	14.198	14.198	0.000	82	168586	250.0	218.4	
114 1,2,4-Trichlorobenzene	180	15.020	15.020	0.000	93	2250221	250.0	229.5	
115 Hexachlorobutadiene	225	15.167	15.167	0.000	89	1660600	250.0	239.9	
116 Naphthalene	128	15.296	15.296	0.000	98	2887189	250.0	242.2	
117 1,2,3-Trichlorobenzene	180	15.536	15.536	0.000	91	1823967	250.0	224.4	
S 129 Xylenes, Total	106				0		500.0	488.4	
S 130 1,2-Dichloroethene, Total	96				0		500.0	500.3	
S 131 1,3-Dichloropropene, Total	1				0		500.0	489.8	
S 145 Total BTEX	1				0			1224.3	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

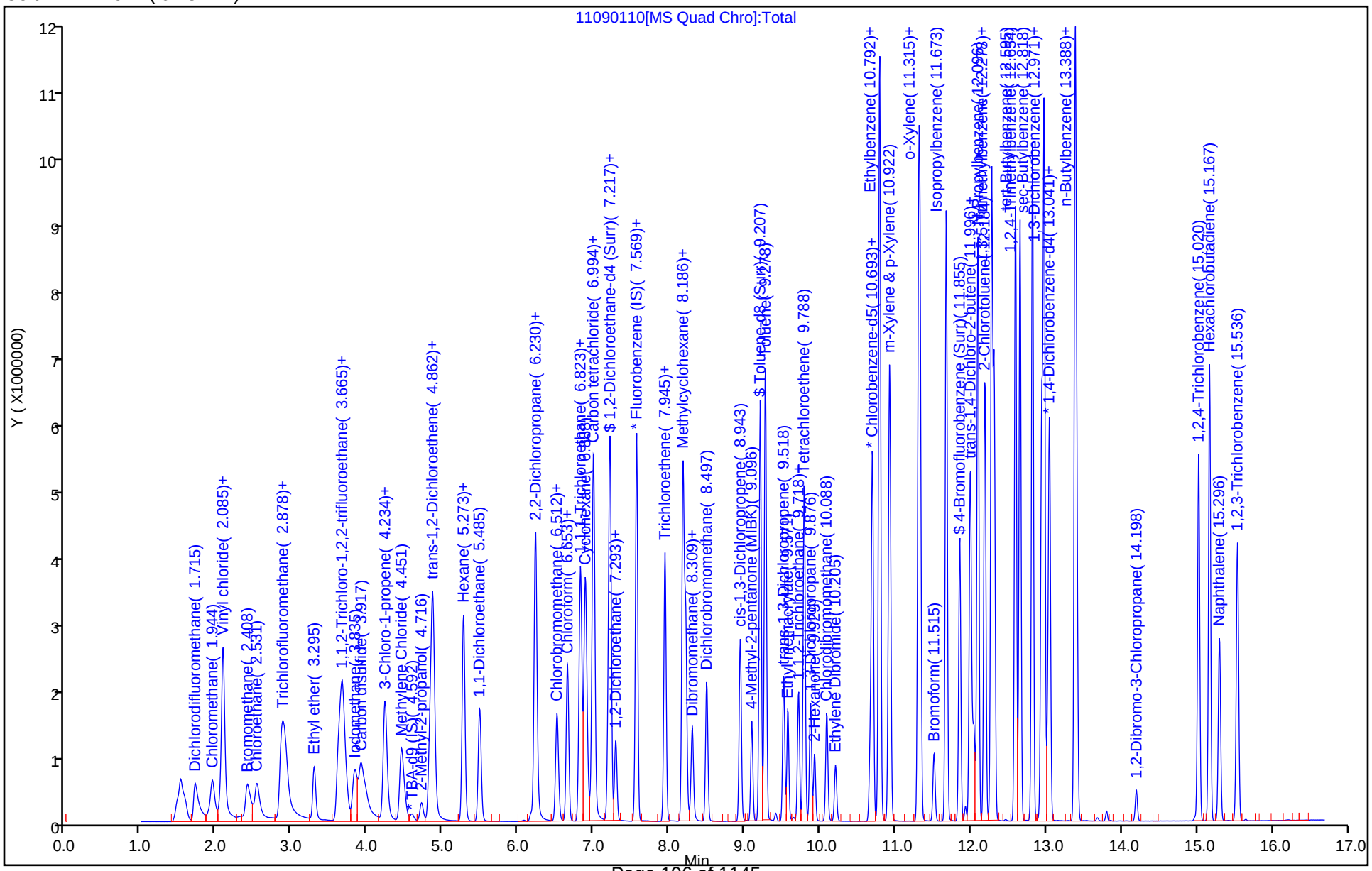
VOA8260SURR_00086	Amount Added: 10.00	Units: uL
VOA8260INT_00086	Amount Added: 2.00	Units: uL
voaWKet2ndRes_00029	Amount Added: 10.00	Units: uL
VOA8260VOA2ND_00309	Amount Added: 10.00	Units: uL

Report Date: 04-Sep-2018 06:59:10 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP11\20180901-23450.b\11090110.D				
Injection Date:	01-Sep-2018 15:12:00	Instrument ID:	CHHP11	Operator ID:	Patrick Journet
Lims ID:	IC			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSVOA_CHHP11	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

TestAmerica Pittsburgh

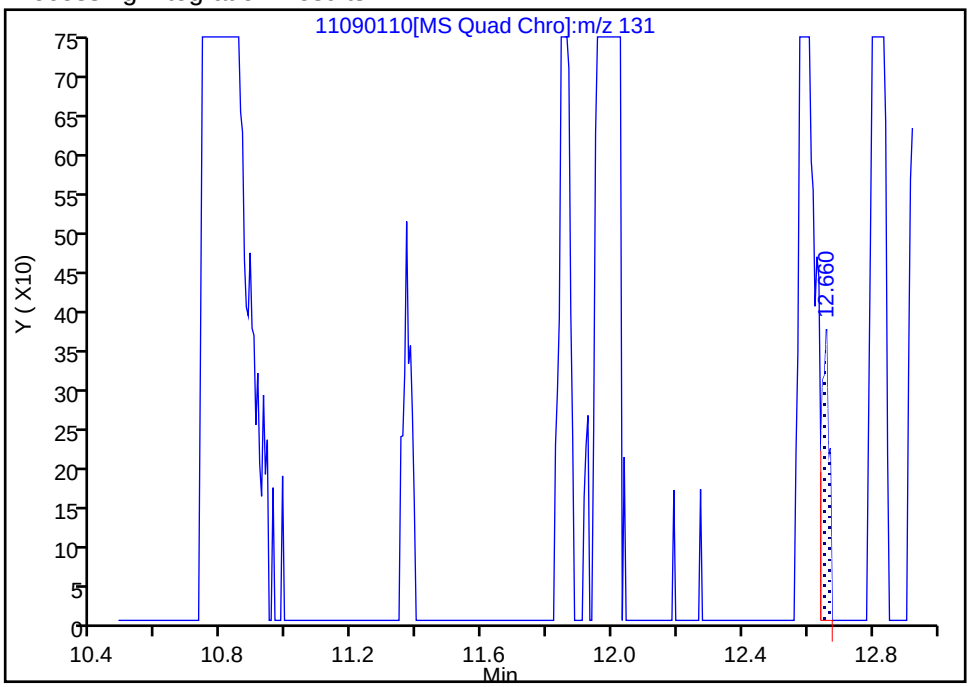
Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP11\20180901-23450.b\11090110.D				
Injection Date:	01-Sep-2018 15:12:00	Instrument ID:	CHHP11		
Lims ID:	IC				
Client ID:					
Operator ID:	Patrick Journet	ALS Bottle#:	0	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP11	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

84 1,1,1,2-Tetrachloroethane, CAS: 630-20-6

Signal: 1

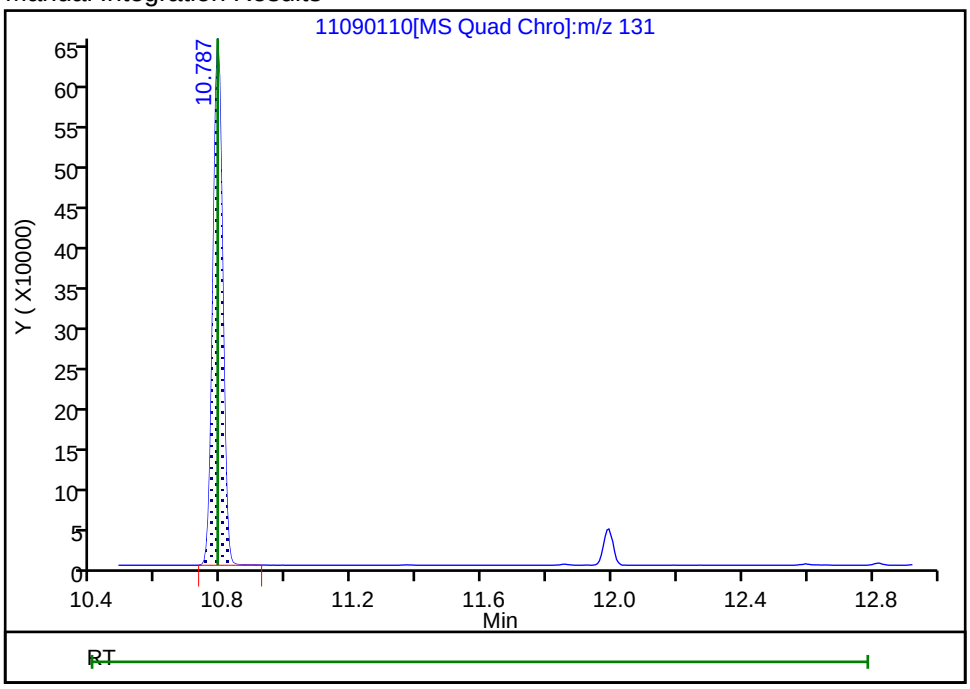
Processing Integration Results

RT: 12.66
Area: 572
Amount: 0.117428
Amount Units: ng



Manual Integration Results

RT: 10.79
Area: 1347572
Amount: 243.0437
Amount Units: ng



Reviewer: journetp, 01-Sep-2018 17:55:27
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Lab Sample ID: CCVIS 180-258478/3 Calibration Date: 10/02/2018 08:51

Instrument ID: CHHP10 Calib Start Date: 09/12/2018 09:19

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/12/2018 11:52

Lab File ID: 10100203.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.5716	0.4925	0.1000	34.5	40.0	-13.8	20.0
Chloromethane	Ave	0.5718	0.5552	0.1000	38.8	40.0	-2.9	20.0
Vinyl chloride	Ave	0.5663	0.5525	0.1000	39.0	40.0	-2.4	20.0
1,3-Butadiene	Ave	0.5283	0.4893	0.0100	37.0	40.0	-7.4	20.0
Bromomethane	Ave	0.1494	0.1779	0.0500	47.6	40.0	19.1	20.0
Chloroethane	Ave	0.1246	0.1315	0.0500	42.2	40.0	5.5	20.0
Dichlorofluoromethane	Ave	0.4026	0.3626	0.0100	36.0	40.0	-10.0	20.0
Trichlorofluoromethane	Ave	0.3919	0.3710	0.1000	37.9	40.0	-5.3	20.0
Ethyl ether	Ave	0.2315	0.1865	0.0100	32.2	40.0	-19.5	20.0
1,1-Dichloroethene	Ave	0.3192	0.2516	0.1000	31.5	40.0	-21.2*	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.3346	0.2805	0.1000	33.5	40.0	-16.2	20.0
Acetone	Lin1		0.0707	0.0500	21.1	40.0	-47.3*	20.0
Iodomethane	Ave	0.5192	0.4515	0.0100	34.8	40.0	-13.0	20.0
Carbon disulfide	Ave	1.119	1.021	0.1000	36.5	40.0	-8.7	20.0
Allyl chloride	Ave	0.2367	0.2116	0.0100	35.8	40.0	-10.6	20.0
Methyl acetate	Ave	0.2638	0.2424	0.1000	73.5	80.0	-8.1	20.0
Methylene Chloride	Ave	0.4347	0.3698	0.1000	34.0	40.0	-14.9	20.0
tert-Butyl alcohol	Ave	1.798	1.501	0.0100	334	400	-16.5	20.0
Acrylonitrile	Ave	0.1394	0.1084	0.0100	311	400	-22.2*	20.0
trans-1,2-Dichloroethene	Ave	0.4032	0.3635	0.1000	36.1	40.0	-9.8	20.0
Methyl tert-butyl ether	Ave	1.201	0.9532	0.1000	31.7	40.0	-20.7*	20.0
Hexane	Ave	0.7522	0.7056	0.0100	37.5	40.0	-6.2	20.0
1,1-Dichloroethane	Ave	0.7584	0.7091	0.2000	37.4	40.0	-6.5	20.0
2,2-Dichloropropane	Ave	0.0879	0.0925	0.0100	42.1	40.0	5.2	20.0
cis-1,2-Dichloroethene	Ave	0.4719	0.4120	0.1000	34.9	40.0	-12.7	20.0
2-Butanone (MEK)	Ave	0.2014	0.1704	0.0500	33.8	40.0	-15.4	20.0
Chlorobromomethane	Ave	0.2122	0.1822	0.0100	34.4	40.0	-14.1	20.0
Tetrahydrofuran	Ave	0.1284	0.1047	0.0100	65.2	80.0	-18.5	20.0
Chloroform	Ave	0.7485	0.6884	0.2000	36.8	40.0	-8.0	20.0
1,1,1-Trichloroethane	Ave	0.6089	0.5863	0.1000	38.5	40.0	-3.7	20.0
Cyclohexane	Ave	0.8147	0.7725	0.1000	37.9	40.0	-5.2	20.0
Carbon tetrachloride	Ave	0.5966	0.5417	0.1000	36.3	40.0	-9.2	20.0
1,1-Dichloropropene	Ave	0.6450	0.5917	0.0100	36.7	40.0	-8.3	20.0
Benzene	Ave	1.893	1.738	0.5000	36.7	40.0	-8.1	20.0
Isobutyl alcohol	Ave	0.0151	0.0112	0.0100	743	1000	-25.7*	20.0
1,2-Dichloroethane	Ave	0.5755	0.5097	0.1000	35.4	40.0	-11.4	20.0
n-Heptane	Ave	0.8250	0.8011	0.0100	38.8	40.0	-2.9	20.0
Trichloroethene	Ave	0.4941	0.4482	0.2000	36.3	40.0	-9.3	20.0
Methylcyclohexane	Ave	0.9390	0.8366	0.1000	35.6	40.0	-10.9	20.0
1,2-Dichloropropane	Ave	0.4675	0.4515	0.1000	38.6	40.0	-3.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Lab Sample ID: CCVIS 180-258478/3 Calibration Date: 10/02/2018 08:51

Instrument ID: CHHP10 Calib Start Date: 09/12/2018 09:19

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/12/2018 11:52

Lab File ID: 10100203.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromomethane	Ave	0.2497	0.2022	0.0100	32.4	40.0	-19.0	20.0
1,4-Dioxane	Lin		0.0028*	0.0100	739	800	-7.6	20.0
Dichlorobromomethane	Ave	0.5938	0.5294	0.2000	35.7	40.0	-10.9	20.0
cis-1,3-Dichloropropene	Ave	0.7071	0.6411	0.2000	36.3	40.0	-9.3	20.0
4-Methyl-2-pentanone (MIBK)	Ave	1.800	1.531	0.1000	34.0	40.0	-14.9	20.0
Toluene	Ave	8.733	8.028	0.4000	36.8	40.0	-8.1	20.0
trans-1,3-Dichloropropene	Ave	2.656	2.319	0.1000	34.9	40.0	-12.7	20.0
Ethyl methacrylate	Ave	2.302	1.954	0.0100	33.9	40.0	-15.1	20.0
1,1,2-Trichloroethane	Ave	1.566	1.359	0.1000	34.7	40.0	-13.2	20.0
Tetrachloroethene	Ave	1.692	1.561	0.2000	36.9	40.0	-7.8	20.0
1,3-Dichloropropane	Ave	2.756	2.464	0.0100	35.8	40.0	-10.6	20.0
2-Hexanone	Ave	1.221	1.040	0.1000	34.1	40.0	-14.8	20.0
Chlorodibromomethane	Ave	1.773	1.522	0.1000	34.3	40.0	-14.2	20.0
1,2-Dibromoethane	Ave	1.476	1.191	0.1000	32.3	40.0	-19.3	20.0
Chlorobenzene	Ave	5.821	5.040	0.5000	34.6	40.0	-13.4	20.0
1,1,1,2-Tetrachloroethane	Ave	2.033	1.718	0.0100	33.8	40.0	-15.5	20.0
Ethylbenzene	Ave	3.252	2.776	0.1000	34.1	40.0	-14.6	20.0
m-Xylene & p-Xylene	Ave	3.898	3.368	0.1000	34.6	40.0	-13.6	20.0
o-Xylene	Ave	3.849	3.261	0.3000	33.9	40.0	-15.3	20.0
Styrene	Ave	6.606	5.461	0.3000	33.1	40.0	-17.3	20.0
Bromoform	Ave	1.133	0.9182	0.1000	32.4	40.0	-19.0	20.0
Isopropylbenzene	Ave	10.12	8.665	0.1000	34.2	40.0	-14.4	20.0
Bromobenzene	Ave	1.390	1.196	0.0100	34.4	40.0	-14.0	20.0
1,1,2,2-Tetrachloroethane	Ave	2.248	1.694	0.3000	30.1	40.0	-24.6*	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3148	0.3443	0.0100	43.8	40.0	9.4	20.0
1,2,3-Trichloropropane	Ave	0.3641	0.2910	0.0100	32.0	40.0	-20.1*	20.0
N-Propylbenzene	Ave	1.664	1.474	0.0100	35.4	40.0	-11.4	20.0
2-Chlorotoluene	Ave	1.401	1.208	0.0100	34.5	40.0	-13.8	20.0
1,3,5-Trimethylbenzene	Ave	5.011	4.144	0.0100	33.1	40.0	-17.3	20.0
4-Chlorotoluene	Ave	1.484	1.306	0.0100	35.2	40.0	-12.0	20.0
tert-Butylbenzene	Ave	4.321	3.641	0.0100	33.7	40.0	-15.7	20.0
1,2,4-Trimethylbenzene	Ave	5.067	4.233	0.0100	33.4	40.0	-16.5	20.0
sec-Butylbenzene	Ave	6.577	5.514	0.0100	33.5	40.0	-16.2	20.0
1,3-Dichlorobenzene	Ave	2.709	2.318	0.6000	34.2	40.0	-14.4	20.0
4-Isopropyltoluene	Ave	5.750	4.789	0.0100	33.3	40.0	-16.7	20.0
1,4-Dichlorobenzene	Ave	2.880	2.442	0.5000	33.9	40.0	-15.2	20.0
n-Butylbenzene	Ave	5.201	4.272	0.0100	32.9	40.0	-17.9	20.0
1,2-Dichlorobenzene	Ave	2.594	2.057	0.4000	31.7	40.0	-20.7*	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.2444	0.1459	0.0500	23.9	40.0	-40.3*	20.0
1,2,4-Trichlorobenzene	Ave	1.789	1.099	0.2000	24.6	40.0	-38.6*	20.0
Hexachlorobutadiene	Ave	1.054	0.7173	0.0100	27.2	40.0	-31.9*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Lab Sample ID: CCVIS 180-258478/3 Calibration Date: 10/02/2018 08:51

Instrument ID: CHHP10 Calib Start Date: 09/12/2018 09:19

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/12/2018 11:52

Lab File ID: 10100203.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	4.099	1.949	0.0100	19.0	40.0	-52.5*	20.0
1,2,3-Trichlorobenzene	Ave	1.645	0.8822	0.0100	21.5	40.0	-46.4*	20.0
Dibromofluoromethane (Surr)	Ave	0.3818	0.3843		50.3	50.0	0.6	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.4613	0.4622		50.1	50.0	0.2	20.0
Toluene-d8 (Surr)	Ave	7.013	7.508		53.5	50.0	7.1	20.0
4-Bromofluorobenzene (Surr)	Ave	2.479	2.483		50.1	50.0	0.1	20.0

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP10\20181002-23895.b\10100203.d
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 02-Oct-2018 08:51:30 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 180-0023895-003
Operator ID: Patrick Journet Instrument ID: CHHP10
Sublist: chrom-MSVOA_CHHP10*sub1

Method: \\ChromNA\Pittsburgh\ChromData\CHHP10\20181002-23895.b\MSVOA_CHHP10.m
Limit Group: VOA 8260C ICAL
Last Update: 03-Oct-2018 06:34:45 Calib Date: 12-Sep-2018 11:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP10\20180912-23596.b\10091211.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: journetp Date: 02-Oct-2018 09:31:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.045	4.045	0.000	100	197834	5000.0	5000.0	
* 2 Fluorobenzene (IS)	96	7.016	7.016	0.000	98	544701	250.0	250.0	
* 3 Chlorobenzene-d5	119	10.139	10.139	0.000	86	130875	250.0	250.0	
* 4 1,4-Dichlorobenzene-d4	152	12.480	12.480	0.000	95	218102	250.0	250.0	
$ 5 Dibromofluoromethane (Surr	113	6.286	6.286	0.000	94	209304	250.0	251.6	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.657	6.657	0.000	0	251782	250.0	250.5	
$ 7 Toluene-d8 (Surr)	98	8.680	8.680	0.000	94	982603	250.0	267.7	
$ 8 4-Bromofluorobenzene (Surr	95	11.327	11.327	0.000	89	324913	250.0	250.3	
10 Dichlorodifluoromethane	85	1.510	1.510	0.000	99	214616	200.0	172.3	
11 Chloromethane	50	1.663	1.663	0.000	99	241929	200.0	194.2	
12 Vinyl chloride	62	1.799	1.799	0.000	98	240736	200.0	195.1	
13 Butadiene	39	1.810	1.810	0.000	97	213211	200.0	185.2	
14 Bromomethane	94	2.087	2.087	0.000	91	77535	200.0	238.1	
15 Chloroethane	64	2.193	2.193	0.000	94	57285	200.0	211.0	
17 Dichlorofluoromethane	67	2.457	2.457	0.000	89	157983	200.0	180.1	
16 Trichlorofluoromethane	101	2.469	2.469	0.000	89	161679	200.0	189.3	
18 Ethyl ether	59	2.810	2.810	0.000	94	81250	200.0	161.1	
20 1,1-Dichloroethene	96	3.057	3.057	0.000	99	109628	200.0	157.6	
21 1,1,2-Trichloro-1,2,2-trif	101	3.122	3.122	0.000	67	122219	200.0	167.7	
22 Acetone	43	3.187	3.187	0.000	62	30795	200.0	105.3	
23 Iodomethane	142	3.234	3.234	0.000	91	196750	200.0	173.9	
24 Carbon disulfide	76	3.310	3.310	0.000	99	444831	200.0	182.5	
26 3-Chloro-1-propene	76	3.581	3.581	0.000	87	92190	200.0	178.8	
28 Methyl acetate	43	3.634	3.634	0.000	93	211266	400.0	367.6	
29 Methylene Chloride	84	3.793	3.793	0.000	97	161139	200.0	170.1	
31 Acrylonitrile	53	4.210	4.210	0.000	96	472270	2000.0	1555.5	
32 2-Methyl-2-propanol	59	4.163	4.163	0.000	97	118787	2000.0	1669.3	
30 trans-1,2-Dichloroethene	96	4.222	4.222	0.000	91	158410	200.0	180.3	
33 Methyl tert-butyl ether	73	4.269	4.269	0.000	94	415382	200.0	158.7	
34 Hexane	57	4.657	4.657	0.000	98	307480	200.0	187.6	
36 1,1-Dichloroethane	63	4.881	4.881	0.000	99	308998	200.0	187.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
42 2,2-Dichloropropane	97	5.651	5.651	0.000	97	40309	200.0	210.4	
41 cis-1,2-Dichloroethene	96	5.657	5.657	0.000	82	179520	200.0	174.6	
43 2-Butanone (MEK)	43	5.698	5.698	0.000	99	74259	200.0	169.2	
46 Chlorobromomethane	128	5.951	5.951	0.000	86	79403	200.0	171.8	
48 Tetrahydrofuran	42	5.986	5.986	0.000	95	91254	400.0	326.1	
49 Chloroform	83	6.104	6.104	0.000	99	299975	200.0	183.9	
50 1,1,1-Trichloroethane	97	6.251	6.251	0.000	95	255506	200.0	192.6	
52 Cyclohexane	56	6.322	6.322	0.000	97	336609	200.0	189.6	
53 Carbon tetrachloride	117	6.422	6.422	0.000	80	236056	200.0	181.6	
54 1,1-Dichloropropene	75	6.439	6.439	0.000	92	257830	200.0	183.5	
55 Benzene	78	6.669	6.669	0.000	92	757531	200.0	183.7	
51 Isobutyl alcohol	41	6.710	6.710	0.000	95	122218	5000.0	3717.2	
56 1,2-Dichloroethane	62	6.745	6.745	0.000	100	222112	200.0	177.1	
59 n-Heptane	43	7.039	7.039	0.000	90	349093	200.0	194.2	
60 Trichloroethene	130	7.410	7.410	0.000	94	195290	200.0	181.4	
63 Methylcyclohexane	83	7.639	7.639	0.000	94	364560	200.0	178.2	
64 1,2-Dichloropropane	63	7.680	7.680	0.000	95	196725	200.0	193.1	
65 Dibromomethane	93	7.775	7.775	0.000	93	88100	200.0	161.9	
67 1,4-Dioxane	88	7.786	7.786	0.000	98	24553	4000.0	3694.6	
68 Dichlorobromomethane	83	7.975	7.975	0.000	99	230671	200.0	178.3	
71 cis-1,3-Dichloropropene	75	8.428	8.428	0.000	98	279361	200.0	181.3	
72 4-Methyl-2-pentanone (MIBK	43	8.592	8.592	0.000	95	160330	200.0	170.1	
73 Toluene	91	8.751	8.751	0.000	94	840555	200.0	183.9	
74 trans-1,3-Dichloropropene	75	9.010	9.010	0.000	94	242842	200.0	174.7	
75 Ethyl methacrylate	69	9.080	9.080	0.000	95	204532	200.0	169.7	
76 1,1,2-Trichloroethane	97	9.198	9.198	0.000	97	142286	200.0	173.6	
77 Tetrachloroethene	164	9.263	9.263	0.000	95	163423	200.0	184.5	
78 1,3-Dichloropropane	76	9.357	9.357	0.000	95	258014	200.0	178.8	
79 2-Hexanone	43	9.433	9.433	0.000	97	108907	200.0	170.3	
81 Chlorodibromomethane	129	9.569	9.569	0.000	97	159376	200.0	171.7	
82 Ethylene Dibromide	107	9.680	9.680	0.000	99	124748	200.0	161.4	
83 Chlorobenzene	112	10.169	10.169	0.000	94	527672	200.0	173.2	
84 1,1,1,2-Tetrachloroethane	131	10.263	10.263	0.000	94	179844	200.0	169.0	
85 Ethylbenzene	106	10.269	10.269	0.000	96	290627	200.0	170.7	
86 m-Xylene & p-Xylene	106	10.404	10.404	0.000	97	352579	200.0	172.8	
88 o-Xylene	106	10.786	10.786	0.000	96	341409	200.0	169.4	
89 Styrene	104	10.804	10.804	0.000	97	571815	200.0	165.4	
90 Bromoform	173	10.986	10.986	0.000	98	96137	200.0	162.0	
91 Isopropylbenzene	105	11.151	11.151	0.000	97	907224	200.0	171.2	
94 Bromobenzene	156	11.463	11.463	0.000	96	208632	200.0	172.1	
93 1,1,2,2-Tetrachloroethane	83	11.474	11.474	0.000	94	177374	200.0	150.7	
96 trans-1,4-Dichloro-2-buten	53	11.510	11.510	0.000	87	60073	200.0	218.8	
95 1,2,3-Trichloropropane	110	11.521	11.521	0.000	93	50767	200.0	159.8	
97 N-Propylbenzene	120	11.568	11.568	0.000	97	257127	200.0	177.1	
98 2-Chlorotoluene	126	11.651	11.651	0.000	99	210745	200.0	172.5	
99 1,3,5-Trimethylbenzene	105	11.751	11.751	0.000	98	723137	200.0	165.4	
100 4-Chlorotoluene	126	11.780	11.780	0.000	98	227909	200.0	176.1	
101 tert-Butylbenzene	119	12.063	12.063	0.000	98	635372	200.0	168.5	
103 1,2,4-Trimethylbenzene	105	12.127	12.127	0.000	98	738591	200.0	167.1	
104 sec-Butylbenzene	105	12.286	12.286	0.000	98	962087	200.0	167.7	
105 1,3-Dichlorobenzene	146	12.404	12.404	0.000	95	404455	200.0	171.1	
106 4-Isopropyltoluene	119	12.445	12.445	0.000	97	835640	200.0	166.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
107 1,4-Dichlorobenzene	146	12.510	12.510	0.000	94	426151	200.0	169.6	
110 n-Butylbenzene	91	12.851	12.851	0.000	96	745455	200.0	164.3	
111 1,2-Dichlorobenzene	146	12.863	12.863	0.000	89	358943	200.0	158.6	
112 1,2-Dibromo-3-Chloropropan	157	13.651	13.651	0.000	91	25449	200.0	119.4	
114 1,2,4-Trichlorobenzene	180	14.468	14.468	0.000	96	191721	200.0	122.8	
115 Hexachlorobutadiene	225	14.615	14.615	0.000	94	125150	200.0	136.2	
116 Naphthalene	128	14.733	14.733	0.000	98	340009	200.0	95.1	
117 1,2,3-Trichlorobenzene	180	14.951	14.951	0.000	96	153925	200.0	107.3	
S 129 Xylenes, Total	106				0		400.0	342.2	
S 130 1,2-Dichloroethene, Total	96				0		400.0	354.9	
S 131 1,3-Dichloropropene, Total	1				0		400.0	356.0	

Reagents:

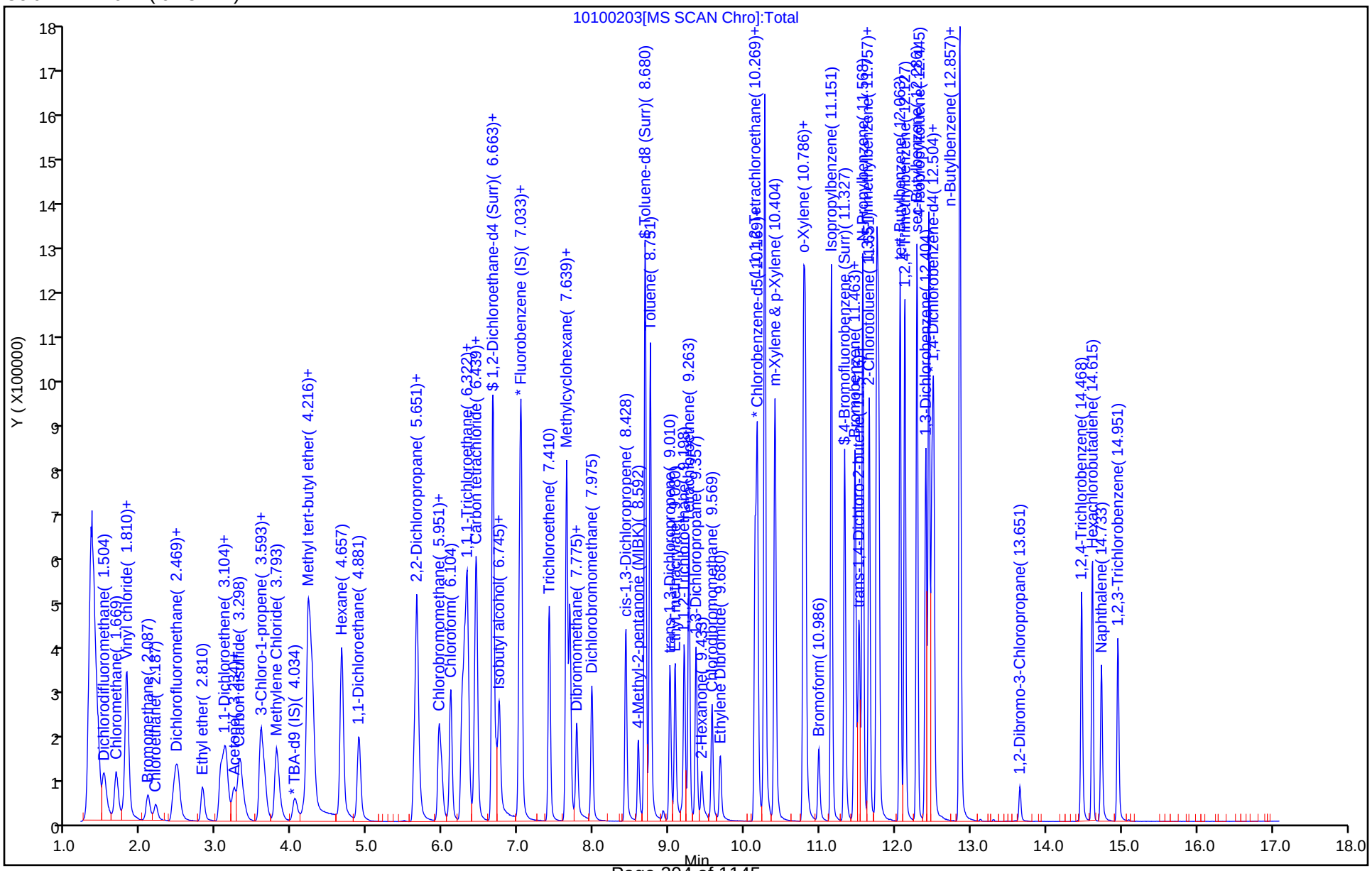
VOA8260VOA2ND_00313	Amount Added: 8.00	Units: uL	
VOA8260SURR_00087	Amount Added: 10.00	Units: uL	Run Reagent
VOA8260INT_00087	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 03-Oct-2018 06:34:46 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP10\20181002-23895.b\10100203.d				
Injection Date:	02-Oct-2018 08:51:30	Instrument ID:	CHHP10	Operator ID:	Patrick Journet
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	MSVOA_CHHP10	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Lab Sample ID: CCVIS 180-258369/2 Calibration Date: 10/01/2018 06:47

Instrument ID: CHHP11 Calib Start Date: 09/01/2018 12:02

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/01/2018 15:12

Lab File ID: 11100102.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3749	0.3782	0.1000	10.1	10.0	0.9	20.0
Chloromethane	Lin2		0.3857	0.1000	13.1	10.0	31.2*	20.0
Vinyl chloride	Ave	0.3489	0.3819	0.1000	10.9	10.0	9.5	20.0
1,3-Butadiene	Ave	0.3147	0.3264	0.0100	10.4	10.0	3.7	20.0
Bromomethane	Lin2		0.2574	0.0500	14.1	10.0	40.6*	20.0
Chloroethane	Ave	0.1987	0.2594	0.0500	13.1	10.0	30.6*	20.0
Dichlorofluoromethane	Ave	0.5177	0.5516	0.0100	10.7	10.0	6.6	20.0
Trichlorofluoromethane	Ave	0.4823	0.5656	0.1000	11.7	10.0	17.3	20.0
Ethyl ether	Ave	0.1461	0.1683	0.0100	11.5	10.0	15.2	20.0
1,1-Dichloroethene	Ave	0.2640	0.2845	0.1000	10.8	10.0	7.8	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2876	0.3190	0.1000	11.1	10.0	10.9	20.0
Acetone	Ave	0.0301	0.0241*	0.0500	16.0	20.0	-19.9	20.0
Iodomethane	Ave	0.4616	0.4935	0.0100	10.7	10.0	6.9	20.0
Carbon disulfide	Ave	0.7941	0.8353	0.1000	10.5	10.0	5.2	20.0
Allyl chloride	Ave	0.2029	0.1681	0.0100	8.29	10.0	-17.1	20.0
Methyl acetate	Ave	0.0654	0.0797*	0.1000	24.4	20.0	21.8*	20.0
Methylene Chloride	Lin2		0.2846	0.1000	10.4	10.0	4.2	20.0
tert-Butyl alcohol	Qua		1.205	0.0100	103	100	3.5	20.0
Acrylonitrile	Ave	0.0330	0.0386	0.0100	117	100	16.8	20.0
trans-1,2-Dichloroethene	Ave	0.2971	0.3278	0.1000	11.0	10.0	10.4	20.0
Methyl tert-butyl ether	Ave	0.4623	0.4732	0.1000	10.2	10.0	2.4	20.0
Hexane	Ave	0.4266	0.4933	0.0100	11.6	10.0	15.6	20.0
1,1-Dichloroethane	Ave	0.4432	0.4991	0.2000	11.3	10.0	12.6	20.0
cis-1,2-Dichloroethene	Ave	0.2960	0.3232	0.1000	10.9	10.0	9.2	20.0
2,2-Dichloropropane	Ave	0.0844	0.0785	0.0100	9.30	10.0	-7.0	20.0
2-Butanone (MEK)	Qua		0.0336*	0.0500	16.6	20.0	-16.9	20.0
Chlorobromomethane	Ave	0.1133	0.1235	0.0100	10.9	10.0	8.9	20.0
Tetrahydrofuran	Qua		0.0343	0.0100	25.1	20.0	25.6*	20.0
Chloroform	Ave	0.4600	0.5130	0.2000	11.2	10.0	11.5	20.0
1,1,1-Trichloroethane	Ave	0.4753	0.4985	0.1000	10.5	10.0	4.9	20.0
Cyclohexane	Ave	0.4825	0.5497	0.1000	11.4	10.0	13.9	20.0
Carbon tetrachloride	Ave	0.4373	0.4474	0.1000	10.2	10.0	2.3	20.0
1,1-Dichloropropene	Ave	0.3954	0.4466	0.0100	11.3	10.0	12.9	20.0
Isobutyl alcohol	Ave	0.0040	0.0042*	0.0100	262	250	4.9	20.0
Benzene	Ave	1.024	1.140	0.5000	11.1	10.0	11.4	20.0
1,2-Dichloroethane	Ave	0.2466	0.2869	0.1000	11.6	10.0	16.4	20.0
n-Heptane	Ave	0.4339	0.5101	0.0100	11.8	10.0	17.6	20.0
Trichloroethene	Ave	0.3301	0.3573	0.2000	10.8	10.0	8.2	20.0
Methylcyclohexane	Ave	0.5438	0.6122	0.1000	11.3	10.0	12.6	20.0
1,2-Dichloropropane	Ave	0.2303	0.2560	0.1000	11.1	10.0	11.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Lab Sample ID: CCVIS 180-258369/2 Calibration Date: 10/01/2018 06:47

Instrument ID: CHHP11 Calib Start Date: 09/01/2018 12:02

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/01/2018 15:12

Lab File ID: 11100102.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.0013	0.0013*	0.0100	207	200	3.7	20.0
Dibromomethane	Ave	0.1024	0.1135	0.0100	11.1	10.0	10.9	20.0
Dichlorobromomethane	Ave	0.3152	0.3098	0.2000	9.83	10.0	-1.7	20.0
cis-1,3-Dichloropropene	Ave	0.3633	0.3585	0.2000	9.87	10.0	-1.3	20.0
4-Methyl-2-pentanone (MIBK)	Qua		0.3066	0.1000	15.2	20.0	-23.8*	20.0
Toluene	Ave	4.937	5.439	0.4000	11.0	10.0	10.2	20.0
trans-1,3-Dichloropropene	Ave	1.189	1.157	0.1000	9.73	10.0	-2.7	20.0
Ethyl methacrylate	Ave	0.8519	0.8631	0.0100	10.1	10.0	1.3	20.0
1,1,2-Trichloroethane	Ave	0.6358	0.6837	0.1000	10.8	10.0	7.5	20.0
Tetrachloroethene	Ave	1.218	1.316	0.2000	10.8	10.0	8.1	20.0
1,3-Dichloropropane	Ave	1.075	1.193	0.0100	11.1	10.0	11.0	20.0
2-Hexanone	Lin2		0.2046	0.1000	14.2	20.0	-29.0*	20.0
Chlorodibromomethane	Lin2		0.7835	0.1000	9.01	10.0	-9.9	20.0
1,2-Dibromoethane	Ave	0.5902	0.6311	0.1000	10.7	10.0	6.9	20.0
Chlorobenzene	Ave	3.195	3.405	0.5000	10.7	10.0	6.6	20.0
1,1,1,2-Tetrachloroethane	Ave	1.178	1.177	0.0100	9.99	10.0	-0.1	20.0
Ethylbenzene	Ave	1.866	2.007	0.1000	10.8	10.0	7.6	20.0
m-Xylene & p-Xylene	Ave	2.310	2.479	0.1000	10.7	10.0	7.3	20.0
o-Xylene	Ave	2.211	2.355	0.3000	10.6	10.0	6.5	20.0
Styrene	Ave	3.425	3.513	0.3000	10.3	10.0	2.6	20.0
Bromoform	Ave	0.5076	0.4002	0.1000	7.88	10.0	-21.2*	20.0
Isopropylbenzene	Ave	6.128	6.773	0.1000	11.1	10.0	10.5	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7158	0.7872	0.3000	11.0	10.0	10.0	20.0
Bromobenzene	Ave	0.8108	0.8286	0.0100	10.2	10.0	2.2	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1026	0.0931	0.0100	9.08	10.0	-9.2	20.0
1,2,3-Trichloropropane	Ave	0.1370	0.1422	0.0100	10.4	10.0	3.8	20.0
N-Propylbenzene	Ave	1.064	1.101	0.0100	10.3	10.0	3.5	20.0
2-Chlorotoluene	Ave	0.8642	0.8813	0.0100	10.2	10.0	2.0	20.0
1,3,5-Trimethylbenzene	Ave	3.096	3.214	0.0100	10.4	10.0	3.8	20.0
4-Chlorotoluene	Ave	0.8874	0.9093	0.0100	10.2	10.0	2.5	20.0
tert-Butylbenzene	Ave	2.872	2.946	0.0100	10.3	10.0	2.6	20.0
1,2,4-Trimethylbenzene	Ave	3.092	3.218	0.0100	10.4	10.0	4.1	20.0
sec-Butylbenzene	Ave	4.172	4.449	0.0100	10.7	10.0	6.6	20.0
1,3-Dichlorobenzene	Ave	1.713	1.740	0.6000	10.2	10.0	1.6	20.0
4-Isopropyltoluene	Ave	3.693	3.883	0.0100	10.5	10.0	5.1	20.0
1,4-Dichlorobenzene	Ave	1.682	1.743	0.5000	10.4	10.0	3.6	20.0
n-Butylbenzene	Ave	3.235	3.454	0.0100	10.7	10.0	6.8	20.0
1,2-Dichlorobenzene	Ave	1.496	1.547	0.4000	10.3	10.0	3.4	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0974	0.0711	0.0500	7.31	10.0	-26.9*	20.0
1,2,4-Trichlorobenzene	Ave	1.237	1.180	0.2000	9.54	10.0	-4.6	20.0
Hexachlorobutadiene	Ave	0.8729	0.8319	0.0100	9.53	10.0	-4.7	20.0

FORM VII EPA 8260C

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Lab Sample ID: CCVIS 180-258369/2 Calibration Date: 10/01/2018 06:47

Instrument ID: CHHP11 Calib Start Date: 09/01/2018 12:02

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/01/2018 15:12

Lab File ID: 11100102.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Lin2		1.527	0.0100	9.36	10.0	-6.4	20.0
1,2,3-Trichlorobenzene	Ave	1.025	0.9708	0.0100	9.47	10.0	-5.3	20.0
Dibromofluoromethane (Surr)	Ave	0.2371	0.2569		10.8	10.0	8.3	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2087	0.2439		11.7	10.0	16.8	20.0
Toluene-d8 (Surr)	Ave	4.185	4.603		11.0	10.0	10.0	20.0
4-Bromofluorobenzene (Surr)	Ave	1.437	1.561		10.9	10.0	8.6	20.0

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP11\20181001-23880.b\11100102.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 01-Oct-2018 06:47:43 ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 180-0023880-002
Operator ID: Patrick Journet Instrument ID: CHHP11
Sublist: chrom-MSVOA_CHHP11*sub1

Method: \\ChromNA\Pittsburgh\ChromData\CHHP11\20181001-23880.b\MSVOA_CHHP11.m
Limit Group: VOA 8260C ICAL
Last Update: 01-Oct-2018 12:37:18 Calib Date: 01-Sep-2018 15:12:00
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP11\20180901-23450.b\11090110.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0315

First Level Reviewer: journetp Date: 01-Oct-2018 12:37:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.580	4.580	0.000	99	174719	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.551	7.551	0.000	94	819402	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.657	10.657	0.000	83	194056	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	13.012	13.012	0.000	94	342275	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.829	6.829	0.000	57	210474	50.0	54.2	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.199	7.199	0.000	0	199849	50.0	58.4	
$ 7 Toluene-d8 (Surr)	98	9.201	9.201	0.000	93	893269	50.0	55.0	
$ 8 4-Bromofluorobenzene (Surr	95	11.843	11.843	0.000	94	302824	50.0	54.3	
10 Dichlorodifluoromethane	85	1.721	1.721	0.000	86	309919	50.0	50.4	
11 Chloromethane	50	1.932	1.932	0.000	86	316015	50.0	65.6	
12 Vinyl chloride	62	2.067	2.067	0.000	72	312932	50.0	54.7	
13 Butadiene	39	2.079	2.079	0.000	95	267473	50.0	51.9	
14 Bromomethane	94	2.396	2.396	0.000	89	210921	50.0	70.3	
15 Chloroethane	64	2.531	2.531	0.000	89	212585	50.0	65.3	
17 Dichlorofluoromethane	67	2.866	2.866	0.000	71	452007	50.0	53.3	
16 Trichlorofluoromethane	101	2.884	2.884	0.000	79	463432	50.0	58.6	
18 Ethyl ether	59	3.289	3.289	0.000	91	137861	50.0	57.6	
20 1,1-Dichloroethene	96	3.612	3.612	0.000	96	233103	50.0	53.9	
21 1,1,2-Trichloro-1,2,2-trif	101	3.670	3.670	0.000	67	261419	50.0	55.5	
22 Acetone	43	3.717	3.717	0.000	67	39475	100.0	80.1	
23 Iodomethane	142	3.823	3.823	0.000	55	404355	50.0	53.5	
24 Carbon disulfide	76	3.923	3.923	0.000	97	684428	50.0	52.6	
26 3-Chloro-1-propene	76	4.228	4.228	0.000	89	137744	50.0	41.4	
28 Methyl acetate	43	4.252	4.252	0.000	51	130552	100.0	121.8	
29 Methylene Chloride	84	4.445	4.445	0.000	94	233160	50.0	52.1	
32 2-Methyl-2-propanol	59	4.704	4.704	0.000	85	105274	500.0	517.5	
31 Acrylonitrile	53	4.821	4.821	0.000	93	315888	500.0	584.1	
30 trans-1,2-Dichloroethene	96	4.856	4.856	0.000	36	268622	50.0	55.2	
33 Methyl tert-butyl ether	73	4.874	4.874	0.000	79	387721	50.0	51.2	
34 Hexane	57	5.273	5.273	0.000	98	404194	50.0	57.8	
36 1,1-Dichloroethane	63	5.485	5.485	0.000	97	408989	50.0	56.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
41 cis-1,2-Dichloroethene	96	6.218	6.218	0.000	78	264852	50.0	54.6	
42 2,2-Dichloropropane	97	6.224	6.218	0.006	21	64304	50.0	46.5	
43 2-Butanone (MEK)	43	6.236	6.236	0.000	32	55081	100.0	83.1	
46 Chlorobromomethane	128	6.506	6.506	0.000	86	101176	50.0	54.5	
48 Tetrahydrofuran	42	6.518	6.518	0.000	48	56246	100.0	125.6	
49 Chloroform	83	6.647	6.647	0.000	96	420326	50.0	55.8	
50 1,1,1-Trichloroethane	97	6.811	6.811	0.000	91	408447	50.0	52.4	
52 Cyclohexane	56	6.882	6.882	0.000	85	450414	50.0	57.0	
53 Carbon tetrachloride	117	6.982	6.982	0.000	91	366601	50.0	51.2	
54 1,1-Dichloropropene	75	6.994	6.994	0.000	86	365960	50.0	56.5	
51 Isobutyl alcohol	41	7.181	7.181	0.000	81	85726	1250.0	1311.5	
55 Benzene	78	7.211	7.211	0.000	81	934251	50.0	55.7	
56 1,2-Dichloroethane	62	7.281	7.281	0.000	95	235085	50.0	58.2	
59 n-Heptane	43	7.563	7.563	0.000	88	417980	50.0	58.8	
60 Trichloroethene	130	7.939	7.939	0.000	91	292762	50.0	54.1	
63 Methylcyclohexane	83	8.174	8.174	0.000	94	501646	50.0	56.3	
64 1,2-Dichloropropane	63	8.209	8.209	0.000	83	209776	50.0	55.6	
67 1,4-Dioxane	88	8.297	8.297	0.000	36	21377	1000.0	1037.1	
65 Dibromomethane	93	8.297	8.297	0.000	87	93018	50.0	55.4	
68 Dichlorobromomethane	83	8.491	8.491	0.000	97	253858	50.0	49.1	
71 cis-1,3-Dichloropropene	75	8.937	8.937	0.000	93	293780	50.0	49.3	
72 4-Methyl-2-pentanone (MIBK	43	9.084	9.084	0.000	97	118974	100.0	76.2	
73 Toluene	91	9.266	9.266	0.000	94	1055443	50.0	55.1	
74 trans-1,3-Dichloropropene	75	9.512	9.512	0.000	86	224518	50.0	48.7	
75 Ethyl methacrylate	69	9.565	9.565	0.000	95	167482	50.0	50.7	
76 1,1,2-Trichloroethane	97	9.706	9.706	0.000	96	132671	50.0	53.8	
77 Tetrachloroethene	164	9.782	9.782	0.000	93	255361	50.0	54.0	
78 1,3-Dichloropropane	76	9.870	9.870	0.000	92	231518	50.0	55.5	
79 2-Hexanone	43	9.923	9.923	0.000	98	79423	100.0	71.0	
81 Chlorodibromomethane	129	10.082	10.082	0.000	96	152046	50.0	45.1	
82 Ethylene Dibromide	107	10.199	10.199	0.000	99	122470	50.0	53.5	
83 Chlorobenzene	112	10.687	10.687	0.000	74	660783	50.0	53.3	
84 1,1,1,2-Tetrachloroethane	131	10.781	10.781	0.000	95	228317	50.0	49.9	
85 Ethylbenzene	106	10.781	10.781	0.000	97	389555	50.0	53.8	
86 m-Xylene & p-Xylene	106	10.916	10.916	0.000	97	481092	50.0	53.7	
88 o-Xylene	106	11.297	11.297	0.000	97	456969	50.0	53.2	
89 Styrene	104	11.321	11.321	0.000	95	681788	50.0	51.3	
90 Bromoform	173	11.509	11.509	0.000	96	77652	50.0	39.4	
91 Isopropylbenzene	105	11.667	11.667	0.000	97	1314377	50.0	55.3	
93 1,1,2,2-Tetrachloroethane	83	11.978	11.978	0.000	71	152765	50.0	55.0	
94 Bromobenzene	156	11.990	11.990	0.000	79	283607	50.0	51.1	
96 trans-1,4-Dichloro-2-buten	53	12.019	12.019	0.000	86	31862	50.0	45.4	
95 1,2,3-Trichloropropane	110	12.037	12.037	0.000	38	48678	50.0	51.9	a
97 N-Propylbenzene	120	12.084	12.084	0.000	96	377000	50.0	51.7	
98 2-Chlorotoluene	126	12.178	12.178	0.000	99	301631	50.0	51.0	
99 1,3,5-Trimethylbenzene	105	12.266	12.266	0.000	98	1100171	50.0	51.9	
100 4-Chlorotoluene	126	12.301	12.301	0.000	97	311230	50.0	51.2	
101 tert-Butylbenzene	119	12.583	12.583	0.000	96	1008490	50.0	51.3	
103 1,2,4-Trimethylbenzene	105	12.642	12.642	0.000	98	1101504	50.0	52.0	
104 sec-Butylbenzene	105	12.806	12.806	0.000	98	1522740	50.0	53.3	
105 1,3-Dichlorobenzene	146	12.929	12.929	0.000	92	595475	50.0	50.8	
106 4-Isopropyltoluene	119	12.965	12.965	0.000	83	1329000	50.0	52.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
107 1,4-Dichlorobenzene	146	13.035	13.035	0.000	93	596500	50.0	51.8	
110 n-Butylbenzene	91	13.376	13.376	0.000	95	1182379	50.0	53.4	
111 1,2-Dichlorobenzene	146	13.393	13.393	0.000	85	529364	50.0	51.7	
112 1,2-Dibromo-3-Chloropropan	157	14.186	14.186	0.000	83	24346	50.0	36.5	
114 1,2,4-Trichlorobenzene	180	15.014	15.014	0.000	93	403862	50.0	47.7	
115 Hexachlorobutadiene	225	15.155	15.155	0.000	91	284720	50.0	47.6	
116 Naphthalene	128	15.290	15.290	0.000	97	522539	50.0	46.8	
117 1,2,3-Trichlorobenzene	180	15.525	15.525	0.000	90	332274	50.0	47.4	
S 130 1,2-Dichloroethene, Total	96				0		100.0	109.8	
S 129 Xylenes, Total	106				0		100.0	106.9	
S 131 1,3-Dichloropropene, Total	1				0		100.0	98.0	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

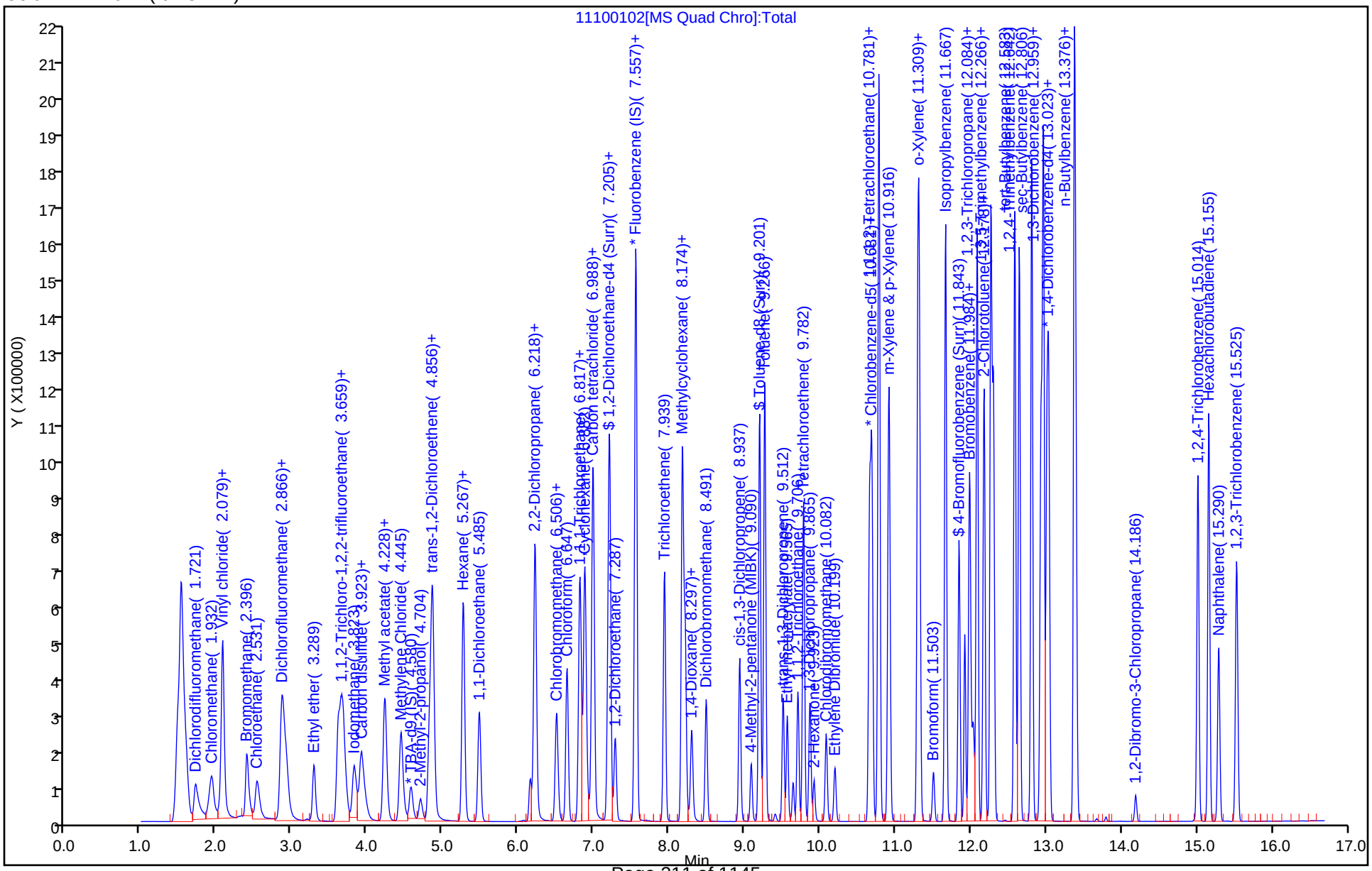
VOAKETMIX1ST_00003	Amount Added:	2.00	Units: uL	
VOA8260VOA2ND_00313	Amount Added:	2.00	Units: uL	
VOA8260INT_00087	Amount Added:	2.00	Units: uL	Run Reagent
VOA8260SURR_00087	Amount Added:	2.00	Units: uL	Run Reagent

Report Date: 01-Oct-2018 12:37:19 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP11\20181001-23880.b\11100102.D				
Injection Date:	01-Oct-2018 06:47:43	Instrument ID:	CHHP11	Operator ID:	Patrick Journet
Lims ID:	CCVIS			Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSVOA_CHHP11	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

TestAmerica Pittsburgh

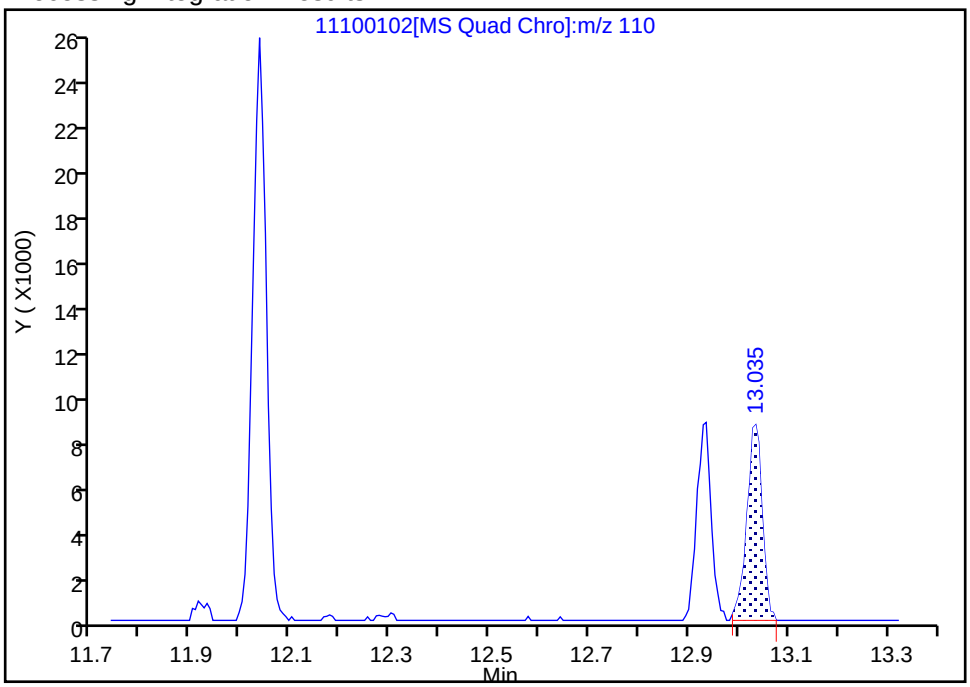
Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP11\20181001-23880.b\11100102.D				
Injection Date:	01-Oct-2018 06:47:43	Instrument ID:	CHHP11		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	Patrick Journet	ALS Bottle#:	0	Worklist Smp#:	2
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP11	Limit Group:	VOA 8260C ICAL		
Column:	DB-624 (0.18 mm)	Detector	MS SCAN		

95 1,2,3-Trichloropropane, CAS: 96-18-4

Signal: 1

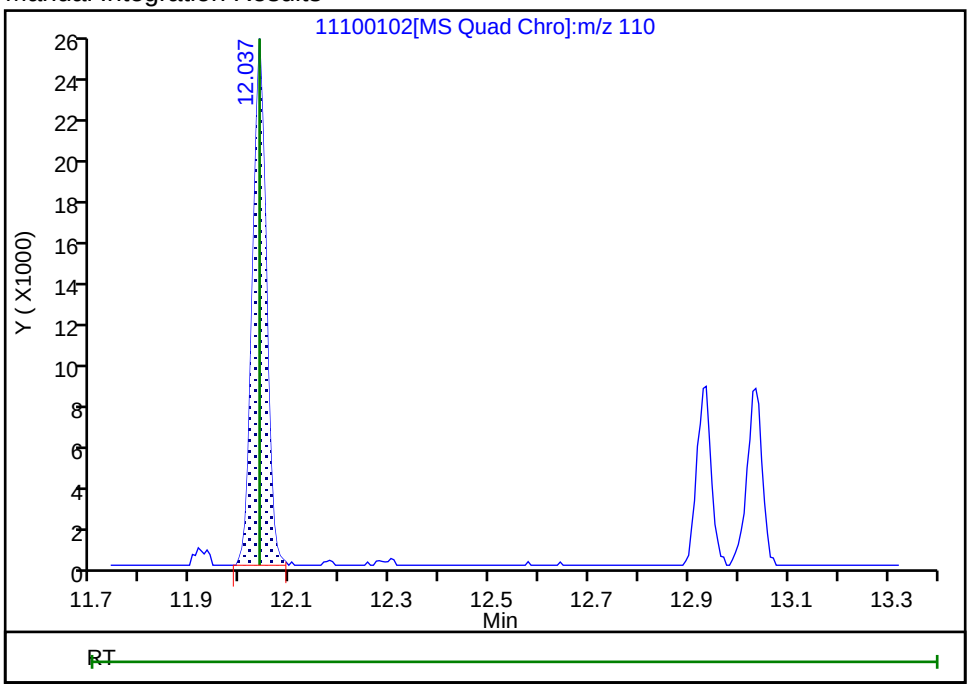
Processing Integration Results

RT: 13.04
Area: 18162
Amount: 19.366648
Amount Units: ng



Manual Integration Results

RT: 12.04
Area: 48678
Amount: 51.906711
Amount Units: ng



Reviewer: journetp, 01-Oct-2018 08:06:00

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP10\20180912-23596.b\10091201 .d				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	12-Sep-2018 06:23:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Sample Info:	180-0023596-001				
Operator ID:	Patrick Journet	Instrument ID:	CHHP10		
Method:	\\ChromNA\Pittsburgh\ChromData\CHHP10\20180912-23596.b\MSVOA_CHHP10.m				
Limit Group:	VOA 8260C ICAL				
Last Update:	13-Sep-2018 17:51:01	Calib Date:	12-Sep-2018 11:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Pittsburgh\ChromData\CHHP10\20180912-23596.b\10091211.d				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK015				

First Level Reviewer: journetp Date: 12-Sep-2018 06:44:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 9 BFB	95	11.327	11.327	0.000	0	279641	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

VOABFB50_00107 Amount Added: 1.00 Units: uL

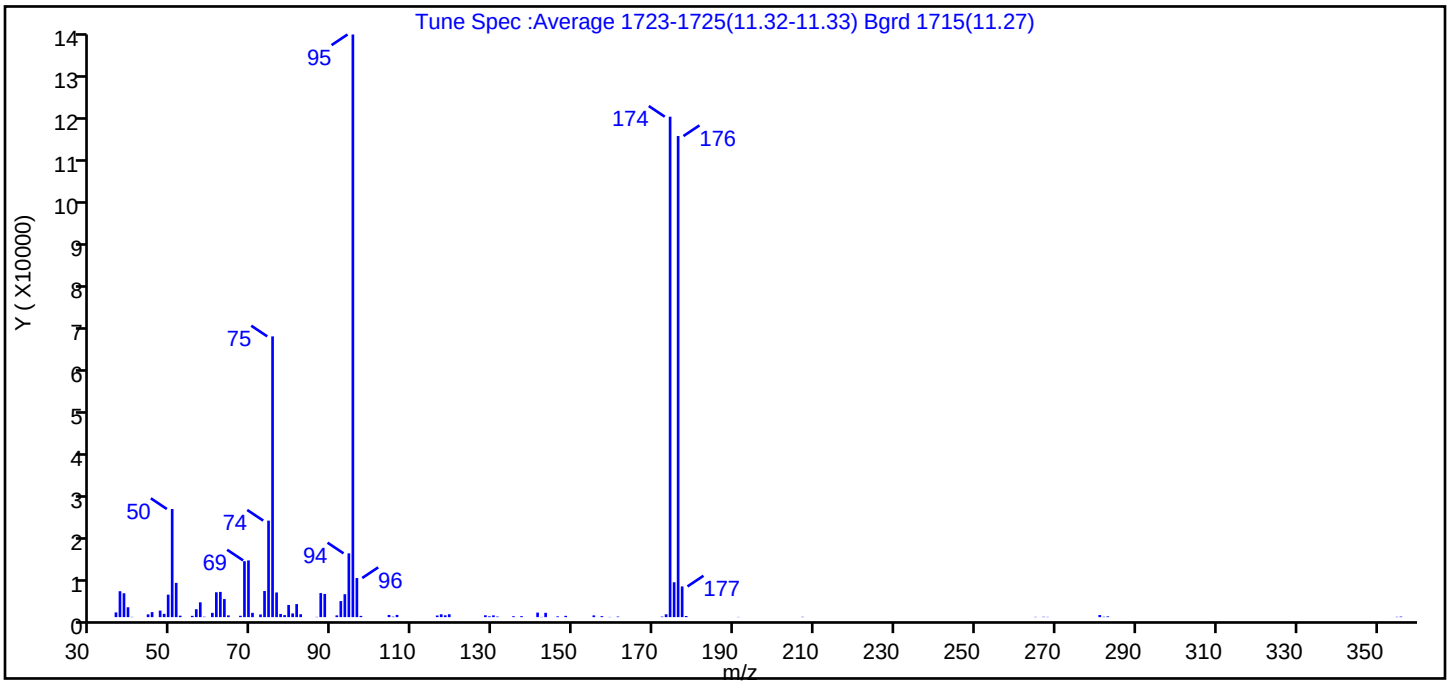
Report Date: 13-Sep-2018 17:51:01 Chrom Revision: 2.3 19-Jul-2018 15:14:50

MS Tune Report

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP10\20180912-23596.b\10091201 .d				
Injection Date:	12-Sep-2018 06:23:30	Instrument ID:	CHHP10		
Lims ID:	BFB				
Client ID:					
Operator ID:	Patrick Journet	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP10	Limit Group:	VOA 8260C ICAL		
Tune Method:	BFB Method 8260				

$ 9 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	18.6
75	30 to 60% of m/z 95	48.2
96	5 to 9% of m/z 95	6.7
173	Less than 2% of m/z 174	0.5 (0.6)
174	50 to 120% of m/z 95	85.9
175	5 to 9% of m/z 174	6.0 (7.0)
176	Greater than 95% but less than 101% of m/z 174	82.6 (96.1)
177	5 to 9% of m/z 176	5.3 (6.4)

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP10\20180912-23596.b\10091201 .d\MSVOA_CHHP10.rslt\spectr
Injection Date: 12-Sep-2018 06:23:30
Spectrum: Tune Spec :Average 1723-1725(11.32-11.33) Bgrd 1715(11.27)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 86

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1098	67.00	318	95.00	135168	157.00	233
37.00	6017	68.00	12977	96.00	9076	159.00	50
38.00	5536	69.00	13159	97.00	299	161.00	128
39.00	2292	70.00	999	104.00	514	172.00	125
40.00	62	72.00	624	105.00	115	173.00	659
44.00	650	73.00	6059	106.00	524	174.00	116096
45.00	1167	74.00	22392	116.00	385	175.00	8097
47.00	1520	75.00	65136	117.00	662	176.00	111608
48.00	769	76.00	5723	118.00	426	177.00	7121
49.00	5216	77.00	748	119.00	666	178.00	262
50.00	25088	78.00	476	128.00	432	191.00	51
51.00	7952	79.00	2828	129.00	190	207.00	78
52.00	341	80.00	865	130.00	412	265.00	64
55.00	306	81.00	3034	131.00	131	267.00	83
56.00	1837	82.00	676	135.00	208	268.00	59
57.00	3437	86.00	63	137.00	228	281.00	498
58.00	100	87.00	5583	141.00	1056	282.00	87
60.00	992	88.00	5384	142.00	53	283.00	175
61.00	5772	91.00	414	143.00	1005	355.00	75
62.00	5856	92.00	3728	146.00	183	356.00	125
63.00	4195	93.00	5321	148.00	304		
64.00	413	94.00	14800	155.00	408		

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP10\20181002-23895.b\10100201 .d				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	02-Oct-2018 07:12:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Sample Info:	180-0023895-001				
Operator ID:	Patrick Journet	Instrument ID:	CHHP10		
Method:	\\ChromNA\Pittsburgh\ChromData\CHHP10\20181002-23895.b\MSVOA_CHHP10.m				
Limit Group:	VOA 8260C ICAL				
Last Update:	03-Oct-2018 06:34:41	Calib Date:	12-Sep-2018 11:52:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Pittsburgh\ChromData\CHHP10\20180912-23596.b\10091211.d				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK011				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 9 BFB	95	11.327	11.327	0.000	0	241627	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

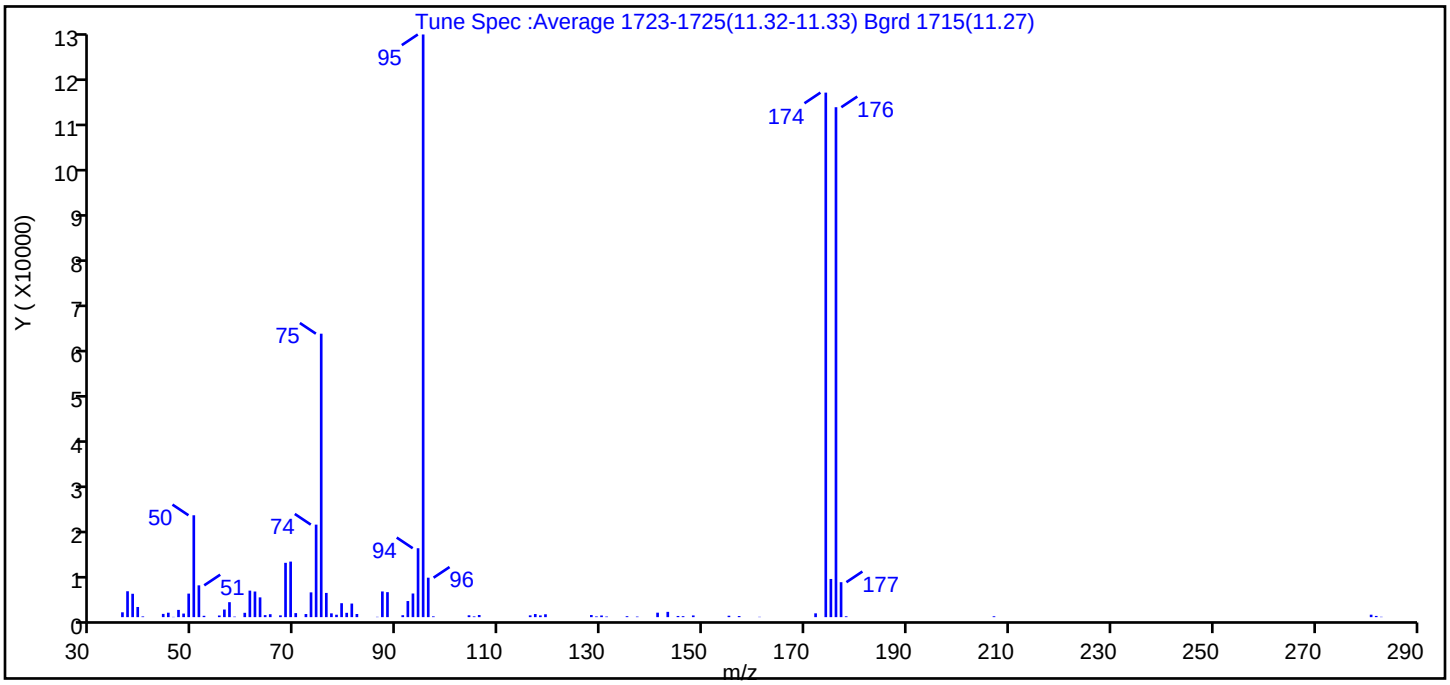
VOABFB50_00107 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP10\20181002-23895.b\10100201 .d				
Injection Date:	02-Oct-2018 07:12:30	Instrument ID:	CHHP10		
Lims ID:	BFB				
Client ID:					
Operator ID:	Patrick Journet	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP10	Limit Group:	VOA 8260C ICAL		
Tune Method:	BFB Method 8260				

$ 9 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.5
75	30 to 60% of m/z 95	48.6
96	5 to 9% of m/z 95	6.8
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	90.0
175	5 to 9% of m/z 174	6.6 (7.3)
176	Greater than 95% but less than 101% of m/z 174	87.5 (97.2)
177	5 to 9% of m/z 176	6.0 (6.9)

Report Date: 03-Oct-2018 06:34:42 Chrom Revision: 2.3 19-Jul-2018 15:14:50

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP10\20181002-23895.b\10100201 .d\MSVOA_CHHP10.rslt\spectr
Injection Date: 02-Oct-2018 07:12:30
Spectrum: Tune Spec :Average 1723-1725(11.32-11.33) Bgrd 1715(11.27)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 80

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1007	62.00	5325	87.00	5338	135.00	199
37.00	5382	63.00	4107	88.00	5191	137.00	119
38.00	4856	64.00	421	91.00	399	141.00	928
39.00	2110	65.00	610	92.00	3346	143.00	1100
40.00	150	67.00	370	93.00	4913	145.00	245
44.00	675	68.00	11288	94.00	14319	146.00	201
45.00	920	69.00	11542	95.00	121064	148.00	353
46.00	55	70.00	838	96.00	8197	155.00	290
47.00	1507	72.00	645	97.00	161	157.00	229
48.00	744	73.00	5147	104.00	386	161.00	66
49.00	4891	74.00	19224	105.00	154	172.00	791
50.00	21168	75.00	58896	106.00	443	174.00	108984
51.00	6607	76.00	5034	116.00	369	175.00	7934
52.00	279	77.00	790	117.00	647	176.00	105952
55.00	341	78.00	503	118.00	359	177.00	7262
56.00	1583	79.00	2898	119.00	598	178.00	175
57.00	3110	80.00	897	128.00	437	207.00	182
58.00	109	81.00	2824	129.00	149	281.00	508
60.00	901	82.00	654	130.00	345	282.00	252
61.00	5509	86.00	66	131.00	125	283.00	72

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP11\20180901-23450.b\11090101.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	01-Sep-2018 09:59:17	ALS Bottle#:	0	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Sample Info:	180-0023450-001				
Operator ID:	Patrick Journet	Instrument ID:	CHHP11		
Method:	\\ChromNA\Pittsburgh\ChromData\CHHP11\20180901-23450.b\MSVOA_CHHP11.m				
Limit Group:	VOA 8260C ICAL				
Last Update:	04-Sep-2018 07:04:46	Calib Date:	01-Sep-2018 15:12:00		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Pittsburgh\ChromData\CHHP11\20180901-23450.b\11090110.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK021				
First Level Reviewer: journetp		Date:	01-Sep-2018 13:45:13		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 9 BFB	95	11.849	11.849	0.000	0	265531	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

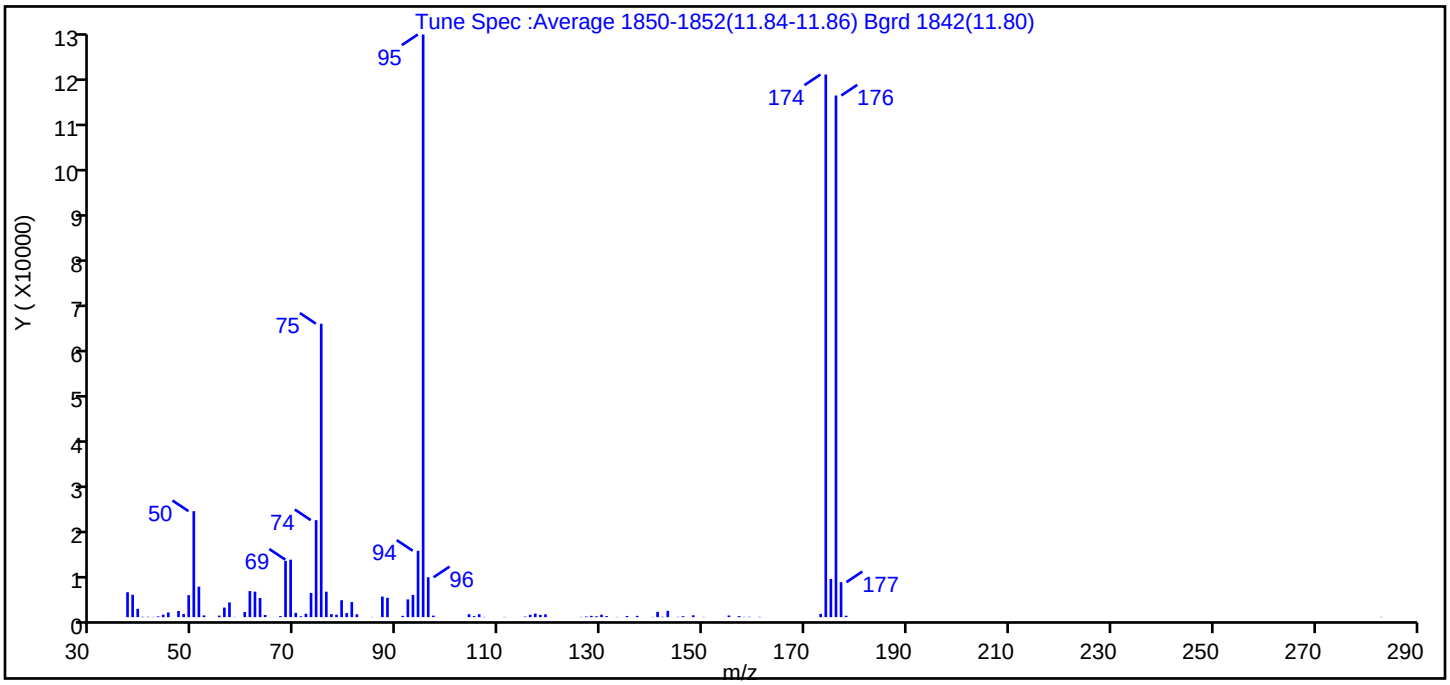
VOABFB25_00106 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP11\20180901-23450.b\11090101.D				
Injection Date:	01-Sep-2018 09:59:17	Instrument ID:	CHHP11		
Lims ID:	BFB				
Client ID:					
Operator ID:	Patrick Journet	ALS Bottle#:	0	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP11	Limit Group:	VOA 8260C ICAL		
Tune Method:	BFB Method 8260				

$ 9 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	18.2
75	30 to 60% of m/z 95	50.4
96	5 to 9% of m/z 95	6.8
173	Less than 2% of m/z 174	0.6 (0.6)
174	50 to 120% of m/z 95	93.1
175	5 to 9% of m/z 174	6.6 (7.1)
176	Greater than 95% but less than 101% of m/z 174	89.5 (96.1)
177	5 to 9% of m/z 176	6.0 (6.7)

Report Date: 04-Sep-2018 07:04:47 Chrom Revision: 2.3 19-Jul-2018 15:14:50

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP11\20180901-23450.b\11090101.D\MSVOA_CHHP11.rslt\spectra
Injection Date: 01-Sep-2018 09:59:17
Spectrum: Tune Spec :Average 1850-1852(11.84-11.86) Bgrd 1842(11.80)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 90

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	5235	64.00	457	93.00	4670	137.00	270
38.00	4703	67.00	219	94.00	13927	140.00	52
39.00	1742	68.00	11820	95.00	122264	141.00	1108
40.00	73	69.00	12059	96.00	8369	142.00	75
41.00	82	70.00	898	97.00	319	143.00	1328
42.00	47	71.00	181	104.00	623	145.00	56
43.00	160	72.00	717	105.00	217	146.00	199
44.00	512	73.00	5072	106.00	614	148.00	395
45.00	980	74.00	20352	107.00	52	150.00	52
47.00	1282	75.00	61576	111.00	51	155.00	344
48.00	647	76.00	5347	115.00	115	157.00	232
49.00	4609	77.00	634	116.00	488	158.00	54
50.00	22240	78.00	514	117.00	749	159.00	79
51.00	6408	79.00	3555	118.00	464	161.00	69
52.00	368	80.00	858	119.00	590	173.00	679
55.00	317	81.00	3169	126.00	58	174.00	113864
56.00	2007	82.00	597	127.00	141	175.00	8033
57.00	3087	83.00	13	128.00	276	176.00	109456
58.00	53	85.00	53	129.00	190	177.00	7336
60.00	1072	87.00	4316	130.00	524	178.00	297
61.00	5476	88.00	4052	131.00	217	283.00	56
62.00	5347	91.00	273	133.00	51		
63.00	4014	92.00	3725	135.00	249		

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP11\20181001-23880.b\11100101.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	01-Oct-2018 06:00:13	ALS Bottle#:	0	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Sample Info:	180-0023880-001				
Operator ID:	Patrick Journet	Instrument ID:	CHHP11		
Method:	\\ChromNA\Pittsburgh\ChromData\CHHP11\20181001-23880.b\MSVOA_CHHP11.m				
Limit Group:	VOA 8260C ICAL				
Last Update:	01-Oct-2018 12:28:20	Calib Date:	01-Sep-2018 15:12:00		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Pittsburgh\ChromData\CHHP11\20180901-23450.b\11090110.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX0325				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
$ 9 BFB	95	11.843	11.843	0.000	0	548397	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

VOABFB25_00108 Amount Added: 1.00 Units: uL

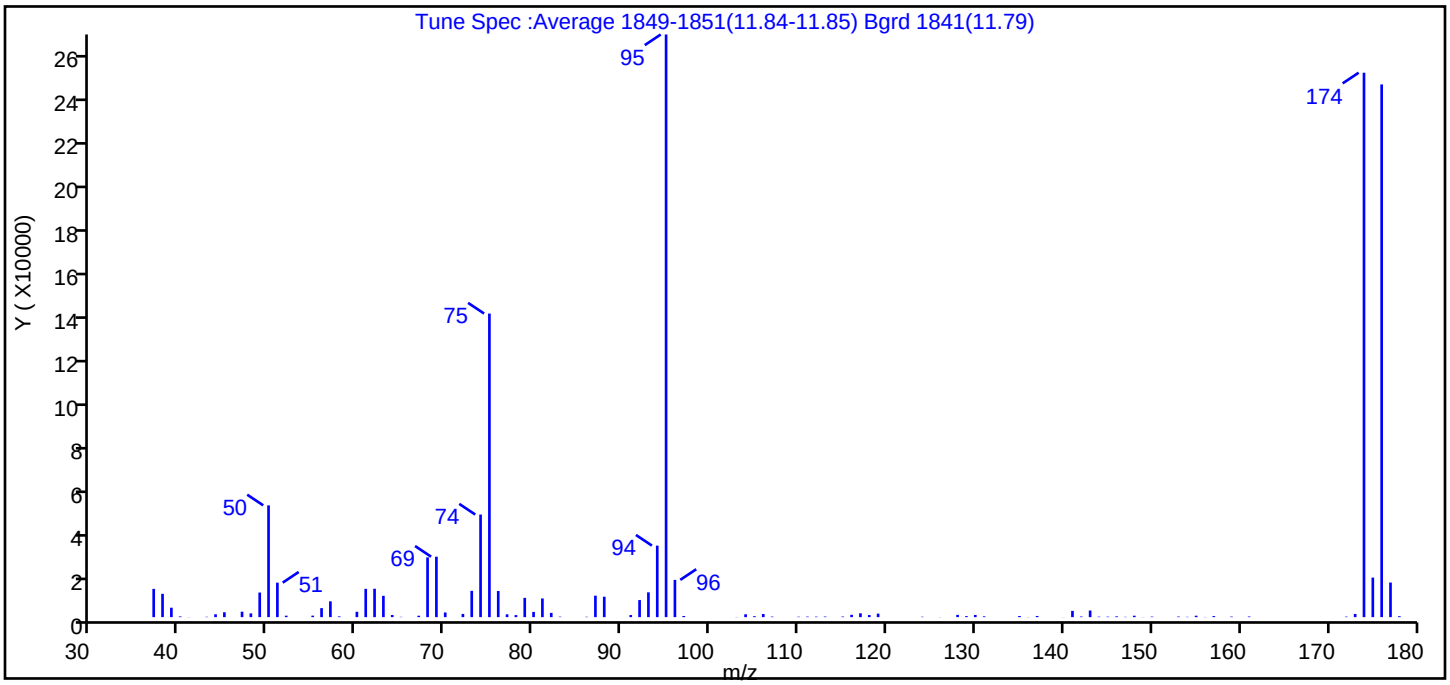
Report Date: 01-Oct-2018 12:28:20 Chrom Revision: 2.3 19-Jul-2018 15:14:50

MS Tune Report

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP11\20181001-23880.b\11100101.D				
Injection Date:	01-Oct-2018 06:00:13	Instrument ID:	CHHP11		
Lims ID:	BFB				
Client ID:					
Operator ID:	Patrick Journet	ALS Bottle#:	0	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Method:	MSVOA_CHHP11	Limit Group:	VOA 8260C ICAL		
Tune Method:	BFB Method 8260				

$ 9 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	19.2
75	30 to 60% of m/z 95	52.1
96	5 to 9% of m/z 95	6.4
173	Less than 2% of m/z 174	0.5 (0.6)
174	50 to 120% of m/z 95	93.4
175	5 to 9% of m/z 174	6.8 (7.3)
176	Greater than 95% but less than 101% of m/z 174	91.4 (97.9)
177	5 to 9% of m/z 176	5.9 (6.5)

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP11\20181001-23880.b\11100101.D\MSVOA_CHHP11.rslt\spectra
Injection Date: 01-Oct-2018 06:00:13
Spectrum: Tune Spec :Average 1849-1851(11.84-11.85) Bgrd 1841(11.79)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 98

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	12672	68.00	26808	103.00	75	142.00	279
38.00	10459	69.00	27120	104.00	1286	143.00	2967
39.00	4238	70.00	2092	105.00	420	144.00	210
40.00	312	72.00	1440	106.00	1410	145.00	221
41.00	63	73.00	11801	107.00	239	146.00	353
43.00	160	74.00	46024	110.00	191	147.00	135
44.00	1283	75.00	136192	111.00	243	148.00	649
45.00	2188	76.00	11733	112.00	229	149.00	56
47.00	2451	77.00	1269	113.00	258	150.00	237
48.00	1688	78.00	919	115.00	266	153.00	260
49.00	11042	79.00	8649	116.00	1047	154.00	138
50.00	50144	80.00	2356	117.00	1733	155.00	649
51.00	15474	81.00	8391	118.00	942	156.00	78
52.00	660	82.00	1909	119.00	1569	157.00	473
55.00	673	83.00	206	124.00	185	159.00	251
56.00	4047	86.00	172	126.00	53	161.00	287
57.00	7094	87.00	9627	128.00	1025	172.00	234
58.00	331	88.00	9172	129.00	456	173.00	1435
60.00	2411	91.00	928	130.00	973	174.00	244224
61.00	12681	92.00	7666	131.00	355	175.00	17744
62.00	12738	93.00	11125	135.00	504	176.00	238976
63.00	9565	94.00	32088	136.00	59	177.00	15528
64.00	950	95.00	261376	137.00	527	178.00	404
65.00	134	96.00	16712	140.00	51		
67.00	637	97.00	519	141.00	2808		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-82446-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 180-258369/5

Matrix: Water | Lab File ID: 11100105.D

Analysis Method: EPA 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/01/2018 08:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 258369 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	2.0	U	5.0	2.0
108-88-3	Toluene	1.7	U	5.0	1.7
100-41-4	Ethylbenzene	2.2	U	5.0	2.2
1330-20-7	Xylenes, Total	4.3	U	10	4.3
179601-23-1	m-Xylene & p-Xylene	1.9	U	5.0	1.9
95-47-6	o-Xylene	2.4	U	5.0	2.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		73-143
460-00-4	4-Bromofluorobenzene (Surr)	95		61-123
1868-53-7	Dibromofluoromethane (Surr)	90		68-128
2037-26-5	Toluene-d8 (Surr)	98		75-124

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP11\20181001-23880.b\11100105.D
Lims ID: mb
Client ID:
Sample Type: MB
Inject. Date: 01-Oct-2018 08:08:43 ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 180-0023880-005
Operator ID: Patrick Journet Instrument ID: CHHP11

Method: \\ChromNA\Pittsburgh\ChromData\CHHP11\20181001-23880.b\MSVOA_CHHP11.m
Limit Group: VOA 8260C ICAL
Last Update: 01-Oct-2018 12:28:25 Calib Date: 01-Sep-2018 15:12:00
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP11\20180901-23450.b\11090110.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0325

First Level Reviewer: journetp Date: 01-Oct-2018 09:42:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.569	4.580	-0.011	100	154470	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.557	7.551	0.006	99	1039242	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.657	10.657	0.000	83	243406	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	13.012	13.012	0.000	86	412646	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.829	6.829	0.000	58	222707	50.0	45.2	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.199	7.199	0.000	0	216331	50.0	49.9	
$ 7 Toluene-d8 (Surr)	98	9.201	9.201	0.000	93	1000046	50.0	49.1	
$ 8 4-Bromofluorobenzene (Surr	95	11.843	11.843	0.000	92	334049	50.0	47.7	
35 Vinyl acetate	43	5.273	5.273	0.000	0	5434		NC	
19 Acrolein	56	5.273	5.285	-0.012	0	4741		NC	
44 Propionitrile	54	6.154	6.166	-0.012	0	408		NC	
45 Ethyl acetate	43	6.166	6.166	0.000	0	2060		NC	
61 n-Butanol	56	7.545	7.557	-0.012	0	7083		NC	
108 1,2,3-Trimethylbenzene	105	12.642	12.642	0.000	0	1713		NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

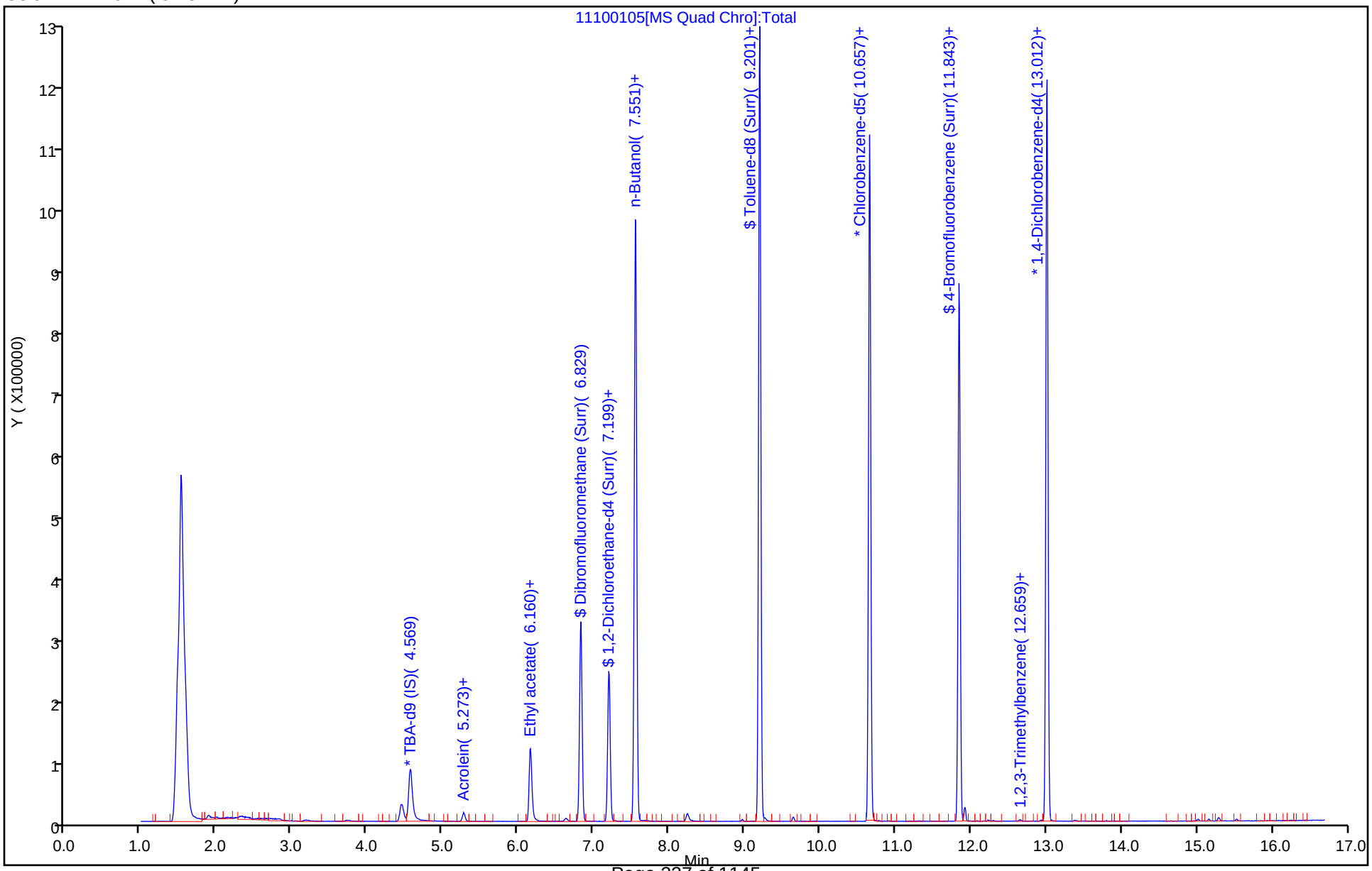
VOA8260INT_00087 Amount Added: 2.00 Units: uL Run Reagent
VOA8260SURR_00087 Amount Added: 2.00 Units: uL Run Reagent

Report Date: 01-Oct-2018 12:28:31 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP11\20181001-23880.b\11100105.D				
Injection Date:	01-Oct-2018 08:08:43	Instrument ID:	CHHP11	Operator ID:	Patrick Journet
Lims ID:	mb			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSVOA_CHHP11	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh
Job No.: 180-82446-1
SDG No.:
Client Sample ID:
Lab Sample ID: MB 180-258478/7
Matrix: Sediment
Lab File ID: 10100207.d
Analysis Method: EPA 8260C
Date Collected:
Sample wt/vol: 5(mL)
Date Analyzed: 10/02/2018 10:36
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: DB-624 ID: 0.18(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 258478
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	2.0	U	5.0	2.0
108-88-3	Toluene	1.7	U	5.0	1.7
100-41-4	Ethylbenzene	2.2	U	5.0	2.2
1330-20-7	Xylenes, Total	4.3	U	10	4.3
179601-23-1	m-Xylene & p-Xylene	1.9	U	5.0	1.9
95-47-6	o-Xylene	2.4	U	5.0	2.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		69-110
460-00-4	4-Bromofluorobenzene (Surr)	99		70-110
1868-53-7	Dibromofluoromethane (Surr)	99		74-114
2037-26-5	Toluene-d8 (Surr)	103		83-124

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP10\20181002-23895.b\10100207.d
Lims ID: mb
Client ID:
Sample Type: MB
Inject. Date: 02-Oct-2018 10:36:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 180-0023895-007
Operator ID: Patrick Journet Instrument ID: CHHP10

Method: \\ChromNA\Pittsburgh\ChromData\CHHP10\20181002-23895.b\MSVOA_CHHP10.m
Limit Group: VOA 8260C ICAL
Last Update: 03-Oct-2018 06:34:45 Calib Date: 12-Sep-2018 11:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP10\20180912-23596.b\10091211.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: journetp Date: 02-Oct-2018 11:23:45

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	3.975	4.045	-0.070	98	326941	5000.0	5000.0	
* 2 Fluorobenzene (IS)	96	7.022	7.016	0.006	99	638546	250.0	250.0	
* 3 Chlorobenzene-d5	119	10.139	10.139	0.000	87	152239	250.0	250.0	
* 4 1,4-Dichlorobenzene-d4	152	12.480	12.480	0.000	93	245749	250.0	250.0	
$ 5 Dibromofluoromethane (Surr	113	6.286	6.286	0.000	93	240673	250.0	246.8	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.663	6.657	0.006	0	290923	250.0	246.9	
$ 7 Toluene-d8 (Surr)	98	8.680	8.680	0.000	94	1100613	250.0	257.7	
$ 8 4-Bromofluorobenzene (Surr	95	11.327	11.327	0.000	89	372324	250.0	246.6	
29 Methylene Chloride	84	3.810	3.793	0.017	98	44927		40.5	
37 Isopropyl alcohol	45	4.110	4.134	-0.024	0	120		NC	
34 Hexane	57	4.669	4.657	0.012	91	12005		6.25	
19 Acrolein	56	4.675	4.687	-0.012	0	6818		NC	
70 2-Chloroethyl vinyl ether	63	8.680	8.751	-0.071	0	981		NC	

QC Flag Legend

Processing Flags
NC - Not Calibrated

Reagents:

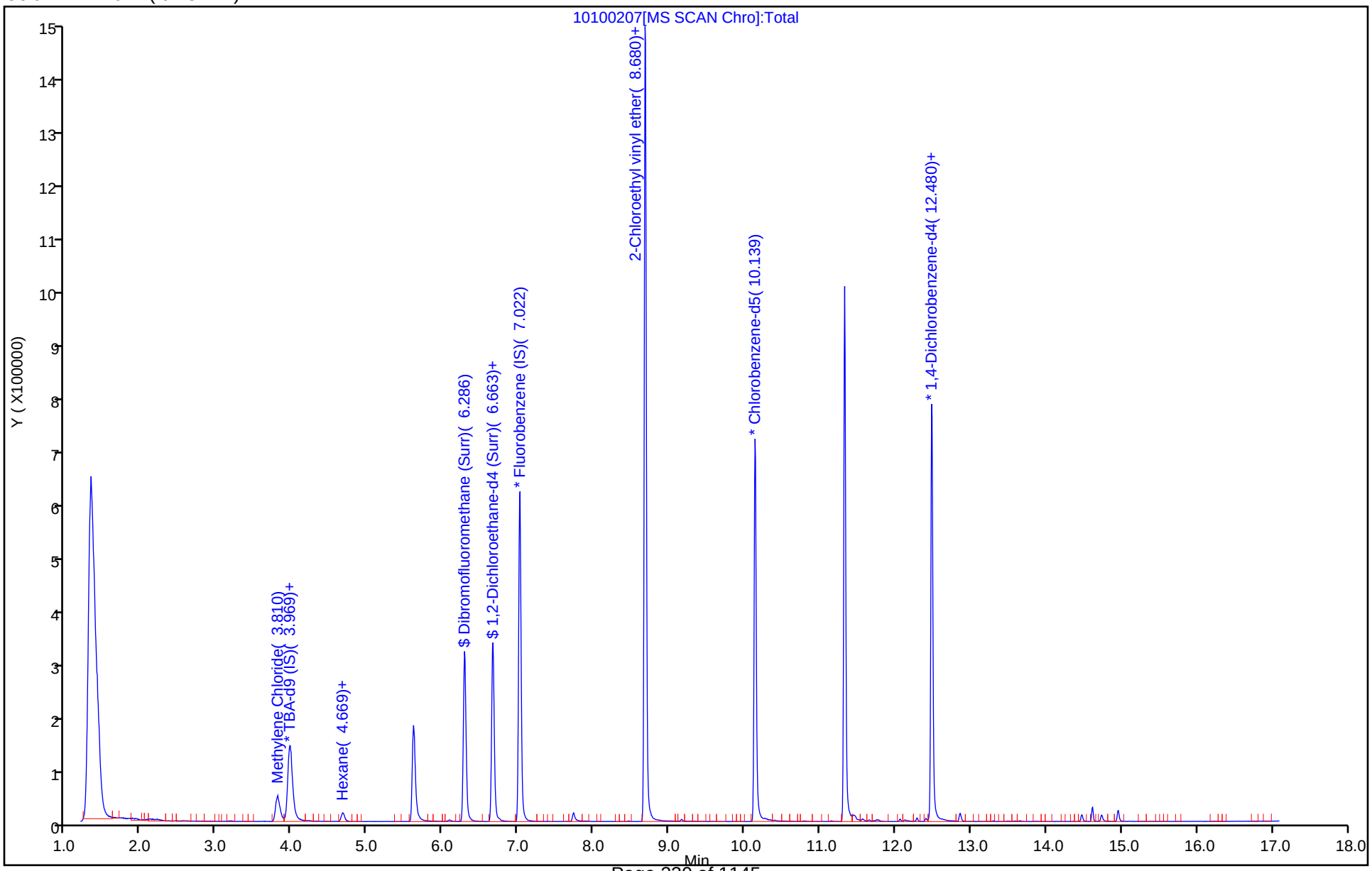
VOA8260SURR_00087 Amount Added: 10.00 Units: uL Run Reagent
VOA8260INT_00087 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 03-Oct-2018 06:34:59 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP10\20181002-23895.b\10100207.d				
Injection Date:	02-Oct-2018 10:36:30	Instrument ID:	CHHP10	Operator ID:	Patrick Journet
Lims ID:	mb			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MSVOA_CHHP10	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh
Job No.: 180-82446-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 180-258369/3
Matrix: Water
Lab File ID: 11100103.D
Analysis Method: EPA 8260C
Date Collected:
Sample wt/vol: 5(mL)
Date Analyzed: 10/01/2018 07:14
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: DB-624 ID: 0.18(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 258369
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	10.2		5.0	2.0
108-88-3	Toluene	10.4		5.0	1.7
100-41-4	Ethylbenzene	10.3		5.0	2.2
1330-20-7	Xylenes, Total	20.3		10	4.3
179601-23-1	m-Xylene & p-Xylene	10.2		5.0	1.9
95-47-6	o-Xylene	10.1		5.0	2.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		73-143
460-00-4	4-Bromofluorobenzene (Surr)	99		61-123
1868-53-7	Dibromofluoromethane (Surr)	96		68-128
2037-26-5	Toluene-d8 (Surr)	100		75-124

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP11\20181001-23880.b\11100103.D
Lims ID: lcs
Client ID:
Sample Type: LCS
Inject. Date: 01-Oct-2018 07:14:28 ALS Bottle#: 0 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 180-0023880-003
Operator ID: Patrick Journet Instrument ID: CHHP11

Method: \\ChromNA\Pittsburgh\ChromData\CHHP11\20181001-23880.b\MSVOA_CHHP11.m
Limit Group: VOA 8260C ICAL
Last Update: 01-Oct-2018 12:28:25 Calib Date: 01-Sep-2018 15:12:00
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP11\20180901-23450.b\11090110.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX0325

First Level Reviewer: journetp Date: 01-Oct-2018 08:53:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.581	4.581	0.000	92	156840	1000.0	1000.0	
* 2 Fluorobenzene (IS)	96	7.551	7.551	0.000	95	899083	50.0	50.0	
* 3 Chlorobenzene-d5	119	10.657	10.657	0.000	84	206256	50.0	50.0	
* 4 1,4-Dichlorobenzene-d4	152	13.012	13.012	0.000	94	364131	50.0	50.0	
$ 5 Dibromofluoromethane (Surr	113	6.829	6.829	0.000	60	204659	50.0	48.0	
$ 6 1,2-Dichloroethane-d4 (Sur	65	7.199	7.199	0.000	0	190168	50.0	50.7	
$ 7 Toluene-d8 (Surr)	98	9.201	9.201	0.000	78	864156	50.0	50.1	
$ 8 4-Bromofluorobenzene (Surr	95	11.843	11.843	0.000	90	294689	50.0	49.7	
10 Dichlorodifluoromethane	85	1.721	1.721	0.000	87	326639	50.0	48.4	
11 Chloromethane	50	1.933	1.933	0.000	86	323626	50.0	61.1	
12 Vinyl chloride	62	2.068	2.068	0.000	63	320577	50.0	51.1	
13 Butadiene	39	2.079	2.079	0.000	96	273771	50.0	48.4	
14 Bromomethane	94	2.402	2.402	0.000	89	201056	50.0	60.7	
15 Chloroethane	64	2.531	2.531	0.000	86	209369	50.0	58.6	
17 Dichlorofluoromethane	67	2.866	2.866	0.000	53	452518	50.0	48.6	
16 Trichlorofluoromethane	101	2.872	2.872	0.000	71	467637	50.0	53.9	
18 Ethyl ether	59	3.289	3.289	0.000	91	131464	50.0	50.0	
20 1,1-Dichloroethene	96	3.612	3.612	0.000	94	241564	50.0	50.9	
21 1,1,2-Trichloro-1,2,2-trif	101	3.665	3.665	0.000	68	262196	50.0	50.7	
22 Acetone	43	3.723	3.723	0.000	69	38091	100.0	70.5	
23 Iodomethane	142	3.823	3.823	0.000	56	408913	50.0	49.3	
24 Carbon disulfide	76	3.917	3.917	0.000	97	684955	50.0	48.0	
26 3-Chloro-1-propene	76	4.228	4.228	0.000	87	143311	50.0	39.3	
28 Methyl acetate	43	4.246	4.246	0.000	42	120832	100.0	102.8	
29 Methylene Chloride	84	4.446	4.446	0.000	94	233338	50.0	46.5	
32 2-Methyl-2-propanol	59	4.704	4.704	0.000	77	89554	500.0	489.1	
31 Acrylonitrile	53	4.821	4.821	0.000	92	289062	500.0	487.1	
30 trans-1,2-Dichloroethene	96	4.857	4.857	0.000	37	270881	50.0	50.7	
33 Methyl tert-butyl ether	73	4.874	4.874	0.000	78	379189	50.0	45.6	
34 Hexane	57	5.268	5.268	0.000	98	411065	50.0	53.6	
36 1,1-Dichloroethane	63	5.485	5.485	0.000	97	411264	50.0	51.6	
41 cis-1,2-Dichloroethene	96	6.219	6.219	0.000	77	268125	50.0	50.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
42 2,2-Dichloropropane	97	6.225	6.225	0.000	21	68948	50.0	45.4	
43 2-Butanone (MEK)	43	6.236	6.236	0.000	31	52629	100.0	73.1	
46 Chlorobromomethane	128	6.501	6.501	0.000	83	99544	50.0	48.8	
48 Tetrahydrofuran	42	6.524	6.524	0.000	57	50030	100.0	101.7	
49 Chloroform	83	6.647	6.647	0.000	97	417693	50.0	50.5	
50 1,1,1-Trichloroethane	97	6.812	6.812	0.000	91	414892	50.0	48.5	
52 Cyclohexane	56	6.882	6.882	0.000	93	456320	50.0	52.6	
53 Carbon tetrachloride	117	6.982	6.982	0.000	86	369502	50.0	47.0	
54 1,1-Dichloropropene	75	6.994	6.994	0.000	86	368325	50.0	51.8	
51 Isobutyl alcohol	41	7.182	7.182	0.000	78	75864	1250.0	1057.7	
55 Benzene	78	7.211	7.211	0.000	87	939121	50.0	51.0	
56 1,2-Dichloroethane	62	7.287	7.287	0.000	95	229443	50.0	51.8	
59 n-Heptane	43	7.563	7.563	0.000	83	420526	50.0	53.9	
60 Trichloroethene	130	7.939	7.939	0.000	92	294263	50.0	49.6	
63 Methylcyclohexane	83	8.174	8.174	0.000	94	507050	50.0	51.9	
64 1,2-Dichloropropane	63	8.215	8.215	0.000	84	207746	50.0	50.2	
67 1,4-Dioxane	88	8.297	8.297	0.000	35	19479	1000.0	861.3	
65 Dibromomethane	93	8.303	8.303	0.000	85	90151	50.0	49.0	
68 Dichlorobromomethane	83	8.491	8.491	0.000	97	246055	50.0	43.4	
71 cis-1,3-Dichloropropene	75	8.937	8.937	0.000	93	287292	50.0	44.0	
72 4-Methyl-2-pentanone (MIBK	43	9.090	9.090	0.000	98	113277	100.0	68.9	
73 Toluene	91	9.266	9.266	0.000	94	1058503	50.0	52.0	
74 trans-1,3-Dichloropropene	75	9.513	9.513	0.000	87	216170	50.0	44.1	
75 Ethyl methacrylate	69	9.565	9.565	0.000	95	158568	50.0	45.1	
76 1,1,2-Trichloroethane	97	9.706	9.706	0.000	96	129474	50.0	49.4	
77 Tetrachloroethene	164	9.783	9.783	0.000	93	259326	50.0	51.6	
78 1,3-Dichloropropane	76	9.871	9.871	0.000	91	223626	50.0	50.4	
79 2-Hexanone	43	9.924	9.924	0.000	97	75608	100.0	64.8	
81 Chlorodibromomethane	129	10.082	10.082	0.000	95	146496	50.0	40.8	
82 Ethylene Dibromide	107	10.199	10.199	0.000	97	118610	50.0	48.7	
83 Chlorobenzene	112	10.687	10.687	0.000	80	663474	50.0	50.3	
84 1,1,1,2-Tetrachloroethane	131	10.781	10.781	0.000	95	219124	50.0	45.1	
85 Ethylbenzene	106	10.787	10.787	0.000	96	394913	50.0	51.3	
86 m-Xylene & p-Xylene	106	10.916	10.916	0.000	97	485262	50.0	50.9	
88 o-Xylene	106	11.297	11.297	0.000	97	460307	50.0	50.5	
89 Styrene	104	11.321	11.321	0.000	96	682542	50.0	48.3	
90 Bromoform	173	11.503	11.503	0.000	95	69903	50.0	33.4	
91 Isopropylbenzene	105	11.667	11.667	0.000	97	1327181	50.0	52.5	
93 1,1,2,2-Tetrachloroethane	83	11.979	11.979	0.000	70	138099	50.0	46.8	
94 Bromobenzene	156	11.990	11.990	0.000	79	274828	50.0	46.5	
96 trans-1,4-Dichloro-2-buten	53	12.020	12.020	0.000	61	29316	50.0	39.2	
95 1,2,3-Trichloropropane	110	12.037	12.037	0.000	90	46227	50.0	46.3	a
97 N-Propylbenzene	120	12.084	12.084	0.000	98	378475	50.0	48.8	
98 2-Chlorotoluene	126	12.178	12.178	0.000	99	300676	50.0	47.8	
99 1,3,5-Trimethylbenzene	105	12.266	12.266	0.000	97	1105419	50.0	49.0	
100 4-Chlorotoluene	126	12.301	12.301	0.000	97	313939	50.0	48.6	
101 tert-Butylbenzene	119	12.583	12.583	0.000	93	1020258	50.0	48.8	
103 1,2,4-Trimethylbenzene	105	12.642	12.642	0.000	97	1108515	50.0	49.2	
104 sec-Butylbenzene	105	12.806	12.806	0.000	98	1528016	50.0	50.3	
105 1,3-Dichlorobenzene	146	12.930	12.930	0.000	91	596301	50.0	47.8	
106 4-Isopropyltoluene	119	12.965	12.965	0.000	81	1345275	50.0	50.0	
107 1,4-Dichlorobenzene	146	13.035	13.035	0.000	93	592135	50.0	48.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
110 n-Butylbenzene	91	13.376	13.376	0.000	95	1194760	50.0	50.7	
111 1,2-Dichlorobenzene	146	13.394	13.394	0.000	86	514822	50.0	47.2	
112 1,2-Dibromo-3-Chloropropan	157	14.186	14.186	0.000	83	21127	50.0	29.8	
114 1,2,4-Trichlorobenzene	180	15.014	15.014	0.000	93	403986	50.0	44.9	
115 Hexachlorobutadiene	225	15.161	15.161	0.000	89	291176	50.0	45.8	
116 Naphthalene	128	15.290	15.290	0.000	98	508136	50.0	42.4	
117 1,2,3-Trichlorobenzene	180	15.525	15.525	0.000	93	333368	50.0	44.7	
S 130 1,2-Dichloroethene, Total	96				0		100.0	101.1	
S 129 Xylenes, Total	106				0		100.0	101.4	
S 145 Total BTEX	1				0			255.7	
S 131 1,3-Dichloropropene, Total	1				0		100.0	88.0	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

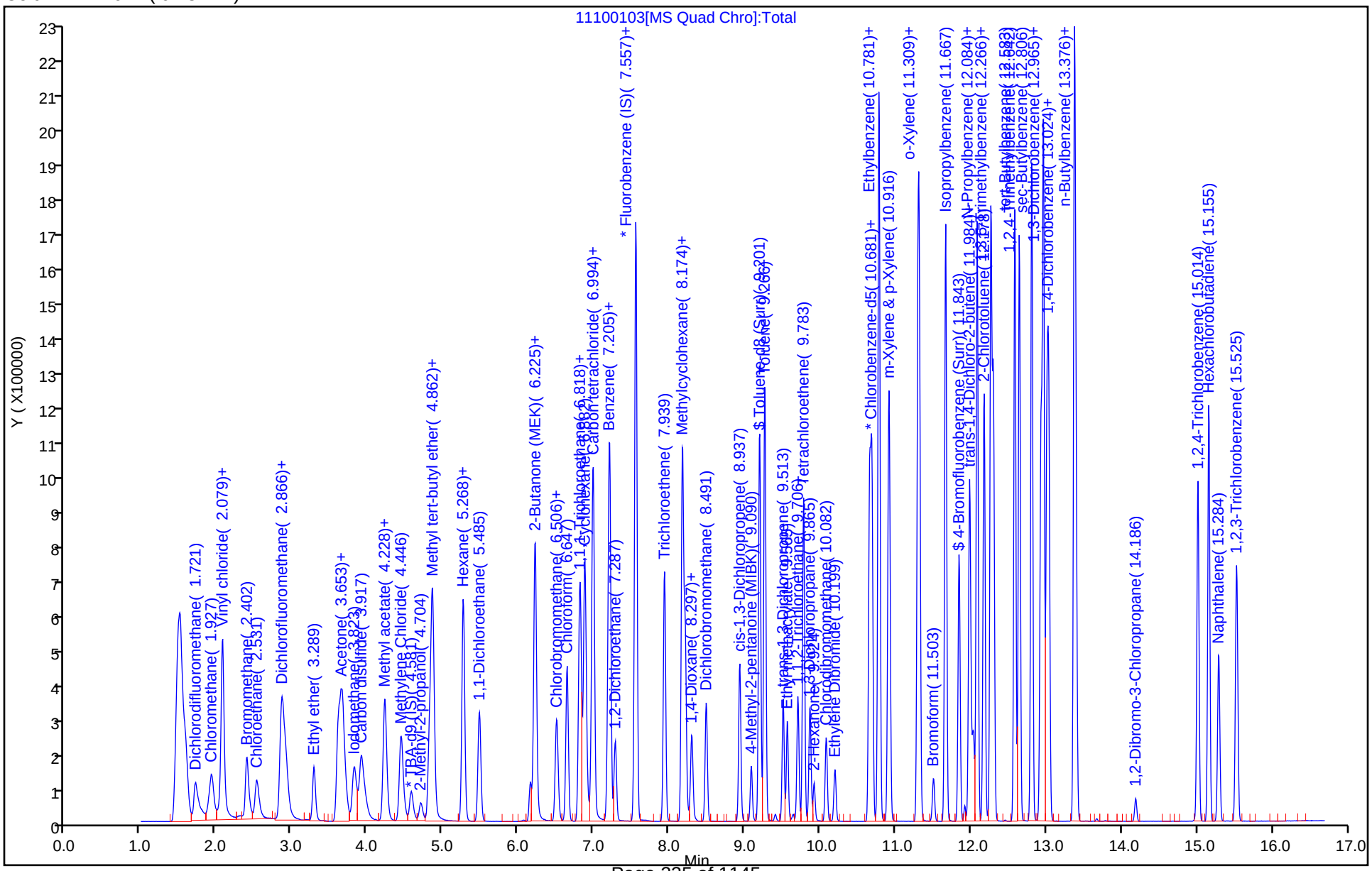
VOA8260VOA2ND_00313	Amount Added: 2.00	Units: uL	
VOAKETMIX1ST_00003	Amount Added: 2.00	Units: uL	
VOA8260INT_00087	Amount Added: 2.00	Units: uL	Run Reagent
VOA8260SURR_00087	Amount Added: 2.00	Units: uL	Run Reagent

Report Date: 01-Oct-2018 12:28:26 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP11\20181001-23880.b\11100103.D				
Injection Date:	01-Oct-2018 07:14:28	Instrument ID:	CHHP11	Operator ID:	Patrick Journet
Lims ID:	lcs			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	0
Method:	MSVOA_CHHP11	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh
Job No.: 180-82446-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 180-258478/5
Matrix: Sediment
Lab File ID: 10100205.d
Analysis Method: EPA 8260C
Date Collected:
Sample wt/vol: 5(mL)
Date Analyzed: 10/02/2018 09:45
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: DB-624 ID: 0.18(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 258478
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	40.4		5.0	2.0
108-88-3	Toluene	40.2		5.0	1.7
100-41-4	Ethylbenzene	37.5		5.0	2.2
1330-20-7	Xylenes, Total	76.2		10	4.3
179601-23-1	m-Xylene & p-Xylene	39.4		5.0	1.9
95-47-6	o-Xylene	36.7		5.0	2.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		69-110
460-00-4	4-Bromofluorobenzene (Surr)	100		70-110
1868-53-7	Dibromofluoromethane (Surr)	101		74-114
2037-26-5	Toluene-d8 (Surr)	104		83-124

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP10\20181002-23895.b\10100205.d
Lims ID: lcs
Client ID:
Sample Type: LCS
Inject. Date: 02-Oct-2018 09:45:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 180-0023895-005
Operator ID: Patrick Journet Instrument ID: CHHP10

Method: \\ChromNA\Pittsburgh\ChromData\CHHP10\20181002-23895.b\MSVOA_CHHP10.m
Limit Group: VOA 8260C ICAL
Last Update: 03-Oct-2018 06:34:45 Calib Date: 12-Sep-2018 11:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP10\20180912-23596.b\10091211.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK011

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.022	4.045	-0.023	100	214476	5000.0	5000.0	
* 2 Fluorobenzene (IS)	96	7.016	7.016	0.000	98	528776	250.0	250.0	
* 3 Chlorobenzene-d5	119	10.139	10.139	0.000	86	129501	250.0	250.0	
* 4 1,4-Dichlorobenzene-d4	152	12.480	12.480	0.000	95	215210	250.0	250.0	
$ 5 Dibromofluoromethane (Surr	113	6.281	6.286	-0.005	93	203137	250.0	251.5	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.657	6.657	0.000	0	243288	250.0	249.4	
$ 7 Toluene-d8 (Surr)	98	8.680	8.680	0.000	94	944520	250.0	260.0	
$ 8 4-Bromofluorobenzene (Surr	95	11.327	11.327	0.000	91	321369	250.0	250.2	
10 Dichlorodifluoromethane	85	1.510	1.510	0.000	99	231035	200.0	191.1	
11 Chloromethane	50	1.675	1.663	0.012	99	255433	200.0	211.2	
12 Vinyl chloride	62	1.798	1.799	-0.001	98	250377	200.0	209.0	
13 Butadiene	39	1.804	1.810	-0.006	97	234105	200.0	209.5	
14 Bromomethane	94	2.081	2.087	-0.006	91	79600	200.0	251.8	
15 Chloroethane	64	2.187	2.193	-0.006	94	60330	200.0	228.9	
17 Dichlorofluoromethane	67	2.457	2.457	0.000	85	171417	200.0	201.3	
16 Trichlorofluoromethane	101	2.475	2.469	0.006	86	182343	200.0	220.0	
18 Ethyl ether	59	2.816	2.810	0.006	92	102349	200.0	209.0	
20 1,1-Dichloroethene	96	3.063	3.057	0.006	99	125229	200.0	185.5	
21 1,1,2-Trichloro-1,2,2-trif	101	3.128	3.122	0.006	68	135593	200.0	191.6	
22 Acetone	43	3.193	3.187	0.005	77	57502	200.0	221.4	
23 Iodomethane	142	3.245	3.234	0.011	92	212589	200.0	193.6	
24 Carbon disulfide	76	3.316	3.310	0.006	98	494838	200.0	209.2	
26 3-Chloro-1-propene	76	3.592	3.581	0.011	86	98696	200.0	197.2	
28 Methyl acetate	43	3.634	3.634	0.000	94	213958	400.0	383.5	
29 Methylene Chloride	84	3.798	3.793	0.005	97	196294	200.0	213.5	
32 2-Methyl-2-propanol	59	4.163	4.163	0.000	98	135797	2000.0	1760.2	
31 Acrylonitrile	53	4.210	4.210	0.000	97	499116	2000.0	1693.4	
30 trans-1,2-Dichloroethene	96	4.228	4.222	0.006	93	174374	200.0	204.5	
33 Methyl tert-butyl ether	73	4.263	4.269	-0.006	96	458352	200.0	180.4	
34 Hexane	57	4.663	4.657	0.006	99	336536	200.0	211.5	
36 1,1-Dichloroethane	63	4.881	4.881	0.000	99	333063	200.0	207.6	
42 2,2-Dichloropropane	97	5.651	5.651	0.000	97	45660	200.0	245.5	
41 cis-1,2-Dichloroethene	96	5.657	5.657	0.000	82	192686	200.0	193.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
43 2-Butanone (MEK)	43	5.692	5.698	-0.006	99	90452	200.0	212.3	
46 Chlorobromomethane	128	5.951	5.951	0.000	86	84765	200.0	188.9	
48 Tetrahydrofuran	42	5.986	5.986	0.000	89	89970	400.0	331.2	
49 Chloroform	83	6.104	6.104	0.000	98	316760	200.0	200.1	
50 1,1,1-Trichloroethane	97	6.257	6.251	0.006	96	276988	200.0	215.1	
52 Cyclohexane	56	6.328	6.322	0.006	96	368364	200.0	213.8	
53 Carbon tetrachloride	117	6.433	6.422	0.011	93	254132	200.0	201.4	
54 1,1-Dichloropropene	75	6.445	6.439	0.006	94	279895	200.0	205.2	
55 Benzene	78	6.663	6.669	-0.006	90	809113	200.0	202.1	
51 Isobutyl alcohol	41	6.710	6.710	0.000	94	127181	5000.0	3984.6	
56 1,2-Dichloroethane	62	6.745	6.745	0.000	99	234475	200.0	192.6	
59 n-Heptane	43	7.039	7.039	0.000	89	384964	200.0	220.6	
60 Trichloroethene	130	7.410	7.410	0.000	92	210348	200.0	201.3	
63 Methylcyclohexane	83	7.639	7.639	0.000	96	392332	200.0	197.5	
64 1,2-Dichloropropane	63	7.686	7.680	0.006	94	209436	200.0	211.8	
65 Dibromomethane	93	7.775	7.775	0.000	87	94393	200.0	178.7	
67 1,4-Dioxane	88	7.792	7.786	0.006	92	28241	4000.0	4338.7	
68 Dichlorobromomethane	83	7.975	7.975	0.000	98	243724	200.0	194.1	
71 cis-1,3-Dichloropropene	75	8.422	8.428	-0.006	98	305652	200.0	204.4	
72 4-Methyl-2-pentanone (MIBK	43	8.592	8.592	0.000	96	151609	200.0	162.6	
73 Toluene	91	8.751	8.751	0.000	94	909400	200.0	201.0	
74 trans-1,3-Dichloropropene	75	9.010	9.010	0.000	94	264074	200.0	191.9	
75 Ethyl methacrylate	69	9.074	9.080	-0.006	95	221420	200.0	185.7	
76 1,1,2-Trichloroethane	97	9.198	9.198	0.000	98	152804	200.0	188.4	
77 Tetrachloroethene	164	9.263	9.263	0.000	95	179258	200.0	204.5	
78 1,3-Dichloropropane	76	9.357	9.357	0.000	97	271606	200.0	190.2	
79 2-Hexanone	43	9.427	9.433	-0.006	97	130333	200.0	206.0	
81 Chlorodibromomethane	129	9.569	9.569	0.000	97	171886	200.0	187.1	
82 Ethylene Dibromide	107	9.680	9.680	0.000	99	135917	200.0	177.8	
83 Chlorobenzene	112	10.169	10.169	0.000	94	567580	200.0	188.2	
84 1,1,1,2-Tetrachloroethane	131	10.263	10.263	0.000	96	194545	200.0	184.7	
85 Ethylbenzene	106	10.269	10.269	0.000	95	315730	200.0	187.4	
86 m-Xylene & p-Xylene	106	10.404	10.404	0.000	98	398247	200.0	197.2	
88 o-Xylene	106	10.780	10.786	-0.006	96	365971	200.0	183.5	
89 Styrene	104	10.804	10.804	0.000	96	626591	200.0	183.1	
90 Bromoform	173	10.986	10.986	0.000	98	99606	200.0	169.7	
91 Isopropylbenzene	105	11.151	11.151	0.000	97	1002619	200.0	191.3	
94 Bromobenzene	156	11.463	11.463	0.000	99	221923	200.0	185.5	
93 1,1,2,2-Tetrachloroethane	83	11.474	11.474	0.000	96	183075	200.0	157.2	
96 trans-1,4-Dichloro-2-buten	53	11.510	11.510	0.000	88	62664	200.0	231.3	
95 1,2,3-Trichloropropane	110	11.521	11.521	0.000	93	53268	200.0	170.0	
97 N-Propylbenzene	120	11.568	11.568	0.000	97	283737	200.0	198.1	
98 2-Chlorotoluene	126	11.651	11.651	0.000	99	225900	200.0	187.4	
99 1,3,5-Trimethylbenzene	105	11.757	11.751	0.006	97	802211	200.0	186.0	
100 4-Chlorotoluene	126	11.780	11.780	0.000	98	243403	200.0	190.6	
101 tert-Butylbenzene	119	12.063	12.063	0.000	96	690662	200.0	185.7	
103 1,2,4-Trimethylbenzene	105	12.127	12.127	0.000	98	794910	200.0	182.2	
104 sec-Butylbenzene	105	12.286	12.286	0.000	98	1054383	200.0	186.2	
105 1,3-Dichlorobenzene	146	12.404	12.404	0.000	95	430079	200.0	184.4	
106 4-Isopropyltoluene	119	12.445	12.445	0.000	97	908852	200.0	183.6	
107 1,4-Dichlorobenzene	146	12.510	12.510	0.000	94	449076	200.0	181.1	
110 n-Butylbenzene	91	12.851	12.851	0.000	96	805147	200.0	179.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
111 1,2-Dichlorobenzene	146	12.862	12.863	0.000	88	374744	200.0	167.8	
112 1,2-Dibromo-3-Chloropropan	157	13.651	13.651	0.000	91	25333	200.0	120.4	
114 1,2,4-Trichlorobenzene	180	14.468	14.468	0.000	97	187147	200.0	121.5	
115 Hexachlorobutadiene	225	14.615	14.615	0.000	94	121931	200.0	134.4	
116 Naphthalene	128	14.733	14.733	0.000	98	316077	200.0	89.6	
117 1,2,3-Trichlorobenzene	180	14.951	14.951	0.000	97	141948	200.0	100.2	
S 129 Xylenes, Total	106				0		400.0	380.8	
S 130 1,2-Dichloroethene, Total	96				0		400.0	397.5	
S 131 1,3-Dichloropropene, Total	1				0		400.0	396.3	

Reagents:

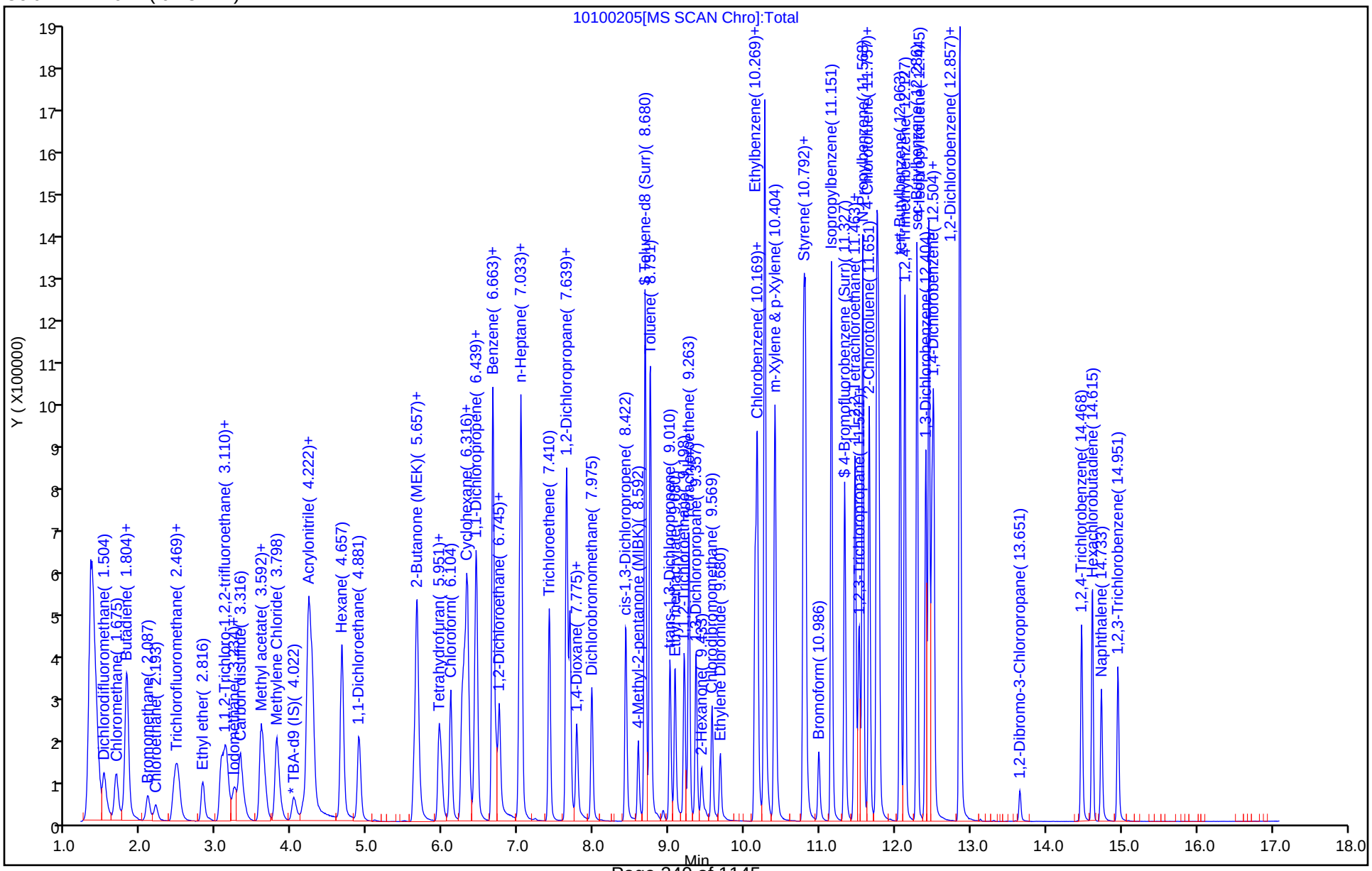
VOA8260VOA2ND_00313	Amount Added: 8.00	Units: uL	
VOA8260SURR_00087	Amount Added: 10.00	Units: uL	Run Reagent
VOA8260INT_00087	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 03-Oct-2018 06:34:54 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP10\20181002-23895.b\10100205.d				
Injection Date:	02-Oct-2018 09:45:30	Instrument ID:	CHHP10	Operator ID:	Patrick Journet
Lims ID:	lcs			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	MSVOA_CHHP10	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh
Job No.: 180-82446-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCSD 180-258478/6
Matrix: Sediment
Lab File ID: 10100206.d
Analysis Method: EPA 8260C
Date Collected:
Sample wt/vol: 5(mL)
Date Analyzed: 10/02/2018 10:11
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: DB-624 ID: 0.18(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 258478
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	39.5		5.0	2.0
108-88-3	Toluene	40.2		5.0	1.7
100-41-4	Ethylbenzene	37.1		5.0	2.2
1330-20-7	Xylenes, Total	75.8		10	4.3
179601-23-1	m-Xylene & p-Xylene	38.4		5.0	1.9
95-47-6	o-Xylene	37.4		5.0	2.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		69-110
460-00-4	4-Bromofluorobenzene (Surr)	102		70-110
1868-53-7	Dibromofluoromethane (Surr)	99		74-114
2037-26-5	Toluene-d8 (Surr)	109		83-124

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CHHP10\20181002-23895.b\10100206.d
Lims ID: lcsd
Client ID:
Sample Type: LCSD
Inject. Date: 02-Oct-2018 10:11:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 180-0023895-006
Operator ID: Patrick Journet Instrument ID: CHHP10

Method: \\ChromNA\Pittsburgh\ChromData\CHHP10\20181002-23895.b\MSVOA_CHHP10.m
Limit Group: VOA 8260C ICAL
Last Update: 03-Oct-2018 06:34:45 Calib Date: 12-Sep-2018 11:52:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CHHP10\20180912-23596.b\10091211.d

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK011

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 TBA-d9 (IS)	65	4.022	4.045	-0.023	99	224888	5000.0	5000.0	
* 2 Fluorobenzene (IS)	96	7.016	7.016	0.000	98	555984	250.0	250.0	
* 3 Chlorobenzene-d5	119	10.139	10.139	0.000	88	129184	250.0	250.0	
* 4 1,4-Dichlorobenzene-d4	152	12.486	12.480	0.006	95	213302	250.0	250.0	
$ 5 Dibromofluoromethane (Surr	113	6.286	6.286	0.000	93	211048	250.0	248.5	
$ 6 1,2-Dichloroethane-d4 (Sur	65	6.657	6.657	0.000	0	256457	250.0	250.0	
$ 7 Toluene-d8 (Surr)	98	8.680	8.680	0.000	93	986900	250.0	272.3	
$ 8 4-Bromofluorobenzene (Surr	95	11.327	11.327	0.000	89	325570	250.0	254.1	
10 Dichlorodifluoromethane	85	1.504	1.510	-0.006	99	227065	200.0	178.6	
11 Chloromethane	50	1.669	1.663	0.006	99	261208	200.0	205.4	
12 Vinyl chloride	62	1.799	1.799	-0.001	98	255957	200.0	203.2	
13 Butadiene	39	1.804	1.810	-0.006	96	239543	200.0	203.9	
14 Bromomethane	94	2.087	2.087	0.000	91	83020	200.0	249.8	
15 Chloroethane	64	2.198	2.193	0.005	95	62854	200.0	226.8	
17 Dichlorofluoromethane	67	2.457	2.457	0.000	83	175841	200.0	196.4	
16 Trichlorofluoromethane	101	2.475	2.469	0.006	84	185503	200.0	212.8	
18 Ethyl ether	59	2.810	2.810	0.000	98	104657	200.0	203.3	
20 1,1-Dichloroethene	96	3.069	3.057	0.012	99	124168	200.0	174.9	
21 1,1,2-Trichloro-1,2,2-trif	101	3.128	3.122	0.006	76	134860	200.0	181.2	
22 Acetone	43	3.193	3.187	0.006	68	55542	200.0	201.7	
23 Iodomethane	142	3.240	3.234	0.006	92	215985	200.0	187.0	
24 Carbon disulfide	76	3.322	3.310	0.012	97	496268	200.0	199.5	
26 3-Chloro-1-propene	76	3.587	3.581	0.006	86	101979	200.0	193.8	
28 Methyl acetate	43	3.640	3.634	0.006	97	245618	400.0	418.7	
29 Methylene Chloride	84	3.798	3.793	0.005	98	201261	200.0	208.2	
32 2-Methyl-2-propanol	59	4.157	4.163	-0.006	96	156785	2000.0	1938.2	
31 Acrylonitrile	53	4.216	4.210	0.006	97	548687	2000.0	1770.5	
30 trans-1,2-Dichloroethene	96	4.222	4.222	0.000	93	174257	200.0	194.3	
33 Methyl tert-butyl ether	73	4.263	4.269	-0.006	84	496227	200.0	185.7	
34 Hexane	57	4.657	4.657	0.000	98	344295	200.0	205.8	
36 1,1-Dichloroethane	63	4.881	4.881	0.000	99	347156	200.0	205.8	
42 2,2-Dichloropropane	97	5.645	5.651	-0.006	97	46254	200.0	236.5	
41 cis-1,2-Dichloroethene	96	5.657	5.657	0.000	82	198017	200.0	188.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
43 2-Butanone (MEK)	43	5.692	5.698	-0.006	100	86331	200.0	192.7	
46 Chlorobromomethane	128	5.951	5.951	0.000	87	86842	200.0	184.0	
48 Tetrahydrofuran	42	5.981	5.986	-0.005	87	117758	400.0	412.3	
49 Chloroform	83	6.104	6.104	0.000	98	323043	200.0	194.1	
50 1,1,1-Trichloroethane	97	6.257	6.251	0.006	97	277006	200.0	204.6	
52 Cyclohexane	56	6.322	6.322	0.000	97	382611	200.0	211.2	
53 Carbon tetrachloride	117	6.428	6.422	0.006	88	255169	200.0	192.3	
54 1,1-Dichloropropene	75	6.445	6.439	0.006	95	283956	200.0	198.0	
55 Benzene	78	6.663	6.669	-0.006	91	831114	200.0	197.5	
51 Isobutyl alcohol	41	6.710	6.710	0.000	94	155205	5000.0	4624.6	
56 1,2-Dichloroethane	62	6.751	6.745	0.006	99	248481	200.0	194.1	
59 n-Heptane	43	7.039	7.039	0.000	89	389029	200.0	212.0	
60 Trichloroethene	130	7.410	7.410	0.000	94	208186	200.0	189.5	
63 Methylcyclohexane	83	7.639	7.639	0.000	97	392949	200.0	188.2	
64 1,2-Dichloropropane	63	7.680	7.680	0.000	96	217674	200.0	209.4	
65 Dibromomethane	93	7.775	7.775	0.000	91	100552	200.0	181.1	
67 1,4-Dioxane	88	7.786	7.786	0.000	96	31383	4000.0	4573.5	
68 Dichlorobromomethane	83	7.975	7.975	0.000	99	252245	200.0	191.0	
71 cis-1,3-Dichloropropene	75	8.427	8.428	-0.001	98	325189	200.0	206.8	
72 4-Methyl-2-pentanone (MIBK	43	8.592	8.592	0.000	96	189376	200.0	203.6	
73 Toluene	91	8.751	8.751	0.000	94	906654	200.0	200.9	
74 trans-1,3-Dichloropropene	75	9.010	9.010	0.000	94	270152	200.0	196.8	
75 Ethyl methacrylate	69	9.075	9.080	-0.006	96	233340	200.0	196.2	
76 1,1,2-Trichloroethane	97	9.198	9.198	0.000	97	162598	200.0	201.0	
77 Tetrachloroethene	164	9.263	9.263	0.000	95	172910	200.0	197.7	
78 1,3-Dichloropropane	76	9.357	9.357	0.000	95	287855	200.0	202.1	
79 2-Hexanone	43	9.433	9.433	0.000	97	142527	200.0	225.8	
81 Chlorodibromomethane	129	9.569	9.569	0.000	98	175099	200.0	191.1	
82 Ethylene Dibromide	107	9.680	9.680	0.000	100	143347	200.0	187.9	
83 Chlorobenzene	112	10.169	10.169	0.000	94	570711	200.0	189.8	
84 1,1,1,2-Tetrachloroethane	131	10.263	10.263	0.000	95	196296	200.0	186.8	
85 Ethylbenzene	106	10.269	10.269	0.000	96	312089	200.0	185.7	
86 m-Xylene & p-Xylene	106	10.404	10.404	0.000	97	387176	200.0	192.2	
88 o-Xylene	106	10.780	10.786	-0.006	96	371557	200.0	186.8	
89 Styrene	104	10.804	10.804	0.000	96	626696	200.0	183.6	
90 Bromoform	173	10.986	10.986	0.000	99	106742	200.0	182.3	
91 Isopropylbenzene	105	11.151	11.151	0.000	97	985526	200.0	188.5	
94 Bromobenzene	156	11.463	11.463	0.000	98	224073	200.0	189.0	
93 1,1,2,2-Tetrachloroethane	83	11.468	11.474	-0.006	97	202122	200.0	174.0	
96 trans-1,4-Dichloro-2-buten	53	11.510	11.510	0.000	87	60629	200.0	225.7	
95 1,2,3-Trichloropropane	110	11.521	11.521	0.000	93	57915	200.0	186.4	
97 N-Propylbenzene	120	11.568	11.568	0.000	97	279286	200.0	196.7	
98 2-Chlorotoluene	126	11.651	11.651	0.000	99	226427	200.0	189.5	
99 1,3,5-Trimethylbenzene	105	11.757	11.751	0.006	97	792394	200.0	185.3	
100 4-Chlorotoluene	126	11.780	11.780	0.000	98	246504	200.0	194.8	
101 tert-Butylbenzene	119	12.063	12.063	0.000	97	690918	200.0	187.4	
103 1,2,4-Trimethylbenzene	105	12.127	12.127	0.000	98	805440	200.0	186.3	
104 sec-Butylbenzene	105	12.286	12.286	0.000	98	1049699	200.0	187.1	
105 1,3-Dichlorobenzene	146	12.404	12.404	0.000	95	435848	200.0	188.6	
106 4-Isopropyltoluene	119	12.445	12.445	0.000	97	895501	200.0	182.5	
107 1,4-Dichlorobenzene	146	12.510	12.510	0.000	94	464400	200.0	189.0	
110 n-Butylbenzene	91	12.851	12.851	0.000	96	802131	200.0	180.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
111 1,2-Dichlorobenzene	146	12.862	12.863	0.000	89	387952	200.0	175.3	
112 1,2-Dibromo-3-Chloropropan	157	13.651	13.651	0.000	91	30440	200.0	146.0	
114 1,2,4-Trichlorobenzene	180	14.468	14.468	0.000	96	203064	200.0	133.0	
115 Hexachlorobutadiene	225	14.615	14.615	0.000	95	127815	200.0	142.2	
116 Naphthalene	128	14.733	14.733	0.000	98	380956	200.0	108.9	
117 1,2,3-Trichlorobenzene	180	14.951	14.951	0.000	95	162819	200.0	116.0	
S 129 Xylenes, Total	106				0		400.0	379.0	
S 130 1,2-Dichloroethene, Total	96				0		400.0	383.0	
S 131 1,3-Dichloropropene, Total	1				0		400.0	403.6	

Reagents:

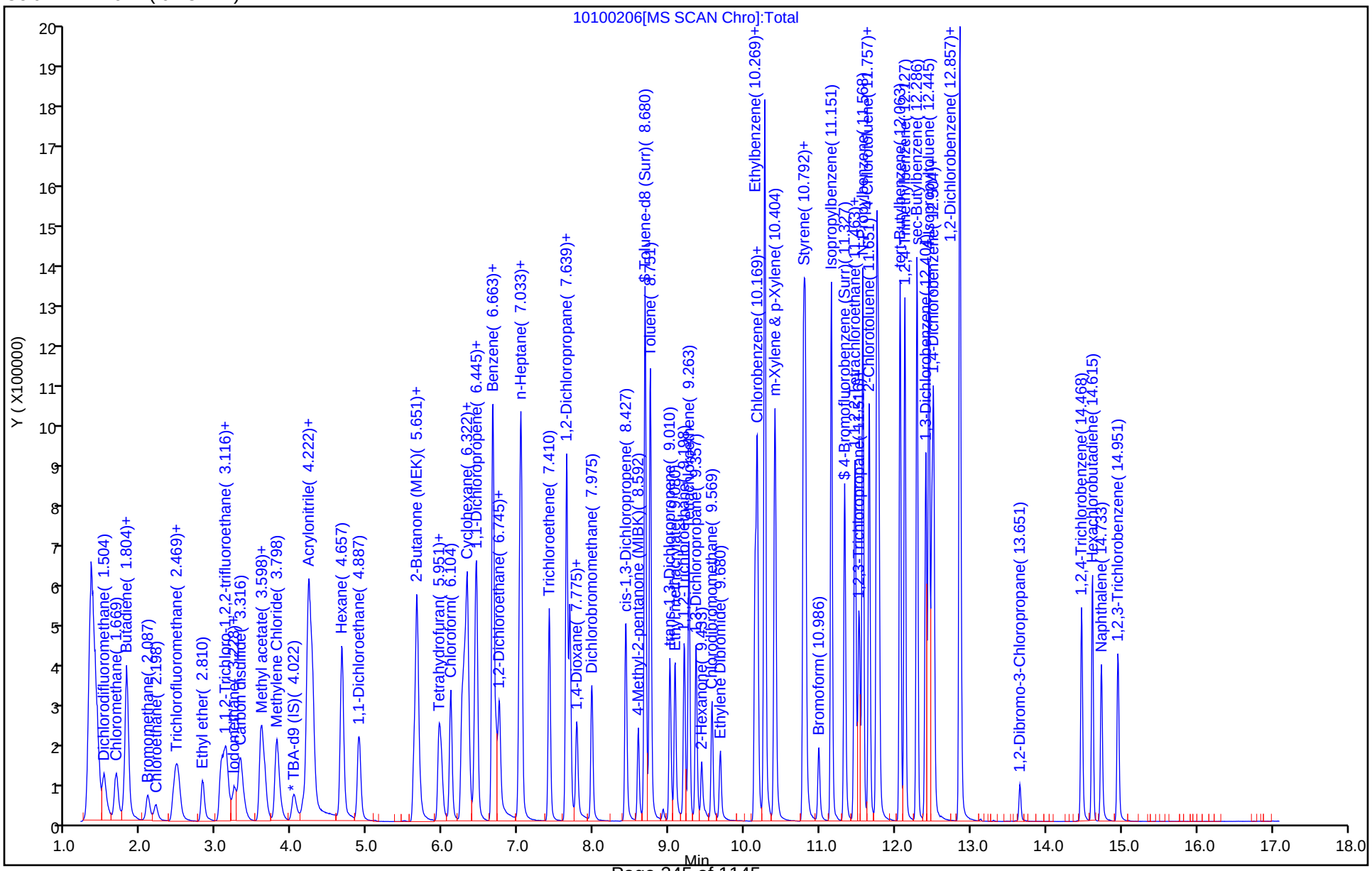
VOA8260VOA2ND_00313	Amount Added: 8.00	Units: uL	
VOA8260SURR_00087	Amount Added: 10.00	Units: uL	Run Reagent
VOA8260INT_00087	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 03-Oct-2018 06:34:58 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CHHP10\20181002-23895.b\10100206.d				
Injection Date:	02-Oct-2018 10:11:30	Instrument ID:	CHHP10	Operator ID:	Patrick Journet
Lims ID:	lcsd			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	MSVOA_CHHP10	Limit Group:	VOA 8260C ICAL		

Column: DB-624 (0.18 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Instrument ID: CHHP10 Start Date: 09/12/2018 06:23

Analysis Batch Number: 256523 End Date: 09/12/2018 14:26

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 180-256523/1		09/12/2018 06:23	1	10091201 .d	DB-624 0.18(mm)
IC 180-256523/5		09/12/2018 09:19	1	10091205.d	DB-624 0.18(mm)
IC 180-256523/6		09/12/2018 09:44	1	10091206.d	DB-624 0.18(mm)
IC 180-256523/7		09/12/2018 10:10	1	10091207.d	DB-624 0.18(mm)
ICIS 180-256523/8		09/12/2018 10:36	1	10091208.d	DB-624 0.18(mm)
IC 180-256523/9		09/12/2018 11:01	1	10091209.d	DB-624 0.18(mm)
IC 180-256523/10		09/12/2018 11:27	1	10091210.d	DB-624 0.18(mm)
IC 180-256523/11		09/12/2018 11:52	1	10091211.d	DB-624 0.18(mm)
ZZZZZ		09/12/2018 14:00	1		DB-624 0.18(mm)
ICV 180-256523/17		09/12/2018 14:26	1		DB-624 0.18(mm)

EPA 8260C

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Instrument ID: CHHP10 Start Date: 10/02/2018 07:12

Analysis Batch Number: 258478 End Date: 10/02/2018 16:59

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 180-258478/1		10/02/2018 07:12	1	10100201 .d	DB-624 0.18(mm)
CCVIS 180-258478/3		10/02/2018 08:51	1	10100203.d	DB-624 0.18(mm)
ZZZZZ		10/02/2018 09:19	1		DB-624 0.18(mm)
LCS 180-258478/5		10/02/2018 09:45	1	10100205.d	DB-624 0.18(mm)
LCSD 180-258478/6		10/02/2018 10:11	1	10100206.d	DB-624 0.18(mm)
MB 180-258478/7		10/02/2018 10:36	1	10100207.d	DB-624 0.18(mm)
ZZZZZ		10/02/2018 11:02	1		DB-624 0.18(mm)
ZZZZZ		10/02/2018 11:53	1		DB-624 0.18(mm)
180-82446-2		10/02/2018 12:19	1	10100211.d	DB-624 0.18(mm)
180-82446-4		10/02/2018 13:09	1	10100213.d	DB-624 0.18(mm)
180-82446-1		10/02/2018 13:34	1	10100214.d	DB-624 0.18(mm)
ZZZZZ		10/02/2018 14:00	1		DB-624 0.18(mm)
180-82446-3		10/02/2018 14:25	1	10100216.d	DB-624 0.18(mm)
180-82446-5		10/02/2018 14:51	1	10100217.d	DB-624 0.18(mm)
180-82446-6		10/02/2018 15:17	1	10100218.d	DB-624 0.18(mm)
ZZZZZ		10/02/2018 15:42	1		DB-624 0.18(mm)
ZZZZZ		10/02/2018 16:08	1		DB-624 0.18(mm)
ZZZZZ		10/02/2018 16:34	1		DB-624 0.18(mm)
ZZZZZ		10/02/2018 16:59	1		DB-624 0.18(mm)

EPA 8260C

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Instrument ID: CHHP11 Start Date: 09/01/2018 09:59

Analysis Batch Number: 255712 End Date: 09/01/2018 18:20

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 180-255712/1		09/01/2018 09:59	1	11090101.D	DB-624 0.18(mm)
IC 180-255712/3		09/01/2018 12:02	1	11090103.D	DB-624 0.18(mm)
IC 180-255712/4		09/01/2018 12:29	1	11090104.D	DB-624 0.18(mm)
ICIS 180-255712/5		09/01/2018 12:56	1	11090105.D	DB-624 0.18(mm)
IC 180-255712/6		09/01/2018 13:23	1	11090106.D	DB-624 0.18(mm)
IC 180-255712/7		09/01/2018 13:50	1	11090107.D	DB-624 0.18(mm)
IC 180-255712/8		09/01/2018 14:18	1	11090108.D	DB-624 0.18(mm)
IC 180-255712/9		09/01/2018 14:45	1	11090109.D	DB-624 0.18(mm)
IC 180-255712/10		09/01/2018 15:12	1	11090110.D	DB-624 0.18(mm)
ZZZZZ		09/01/2018 17:26	1		DB-624 0.18(mm)
ICV 180-255712/17		09/01/2018 18:20	1		DB-624 0.18(mm)

EPA 8260C

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Instrument ID: CHHP11 Start Date: 10/01/2018 06:00

Analysis Batch Number: 258369 End Date: 10/01/2018 15:02

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 180-258369/1		10/01/2018 06:00	1	11100101.D	DB-624 0.18(mm)
CCVIS 180-258369/2		10/01/2018 06:47	1	11100102.D	DB-624 0.18(mm)
LCS 180-258369/3		10/01/2018 07:14	1	11100103.D	DB-624 0.18(mm)
ZZZZZ		10/01/2018 07:41	1		DB-624 0.18(mm)
MB 180-258369/5		10/01/2018 08:08	1	11100105.D	DB-624 0.18(mm)
180-82446-7		10/01/2018 11:25	1	11100111.D	DB-624 0.18(mm)
ZZZZZ		10/01/2018 11:52	1		DB-624 0.18(mm)
ZZZZZ		10/01/2018 12:46	1		DB-624 0.18(mm)
ZZZZZ		10/01/2018 13:40	2.5		DB-624 0.18(mm)
ZZZZZ		10/01/2018 14:07	1		DB-624 0.18(mm)
ZZZZZ		10/01/2018 15:02	20		DB-624 0.18(mm)

EPA 8260C

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Batch Number: 258369 Batch Start Date: 10/01/18 06:00 Batch Analyst: Gordon, Kathy L

Batch Method: EPA 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	VOA8260INT 00087	VOA8260SURR 00087	VOA8260VOA2ND 00313
BFB 180-258369/1		EPA 8260C		5 mL	5 mL				
CCVIS 180-258369/2		EPA 8260C		5 mL	5 mL		2 uL	2 uL	2 uL
LCS 180-258369/3		EPA 8260C		5 mL	5 mL		2 uL	2 uL	2 uL
MB 180-258369/5		EPA 8260C		5 mL	5 mL		2 uL	2 uL	
180-82446-B-7	TRIP BLANK	EPA 8260C	T	5 mL	5 mL	<2 SU	2 uL	2 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	VOABFB25 00108	VOAKETMIX1ST 00003				
BFB 180-258369/1		EPA 8260C		1 uL					
CCVIS 180-258369/2		EPA 8260C			2 uL				
LCS 180-258369/3		EPA 8260C			2 uL				
MB 180-258369/5		EPA 8260C							
180-82446-B-7	TRIP BLANK	EPA 8260C	T						

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Batch Number: 258519 Batch Start Date: 10/02/18 05:05 Batch Analyst: Journet, Patrick

Batch Method: 5035 Batch End Date: 10/02/18 05:06

Lab Sample ID	Client Sample ID	Method Chain	Basis	TareWeight	Vial&SampleWt	InitialAmount	FinalAmount		
180-82446-F-1	POS-SED-S12-S1 (0-0.5')	5035, EPA 8260C	T	34.33 g	405341 g	405306.67 g	5 mL		
180-82446-F-2	POS-SED-S12-S2 (5-10')	5035, EPA 8260C	T	34.48 g	39.7076 g	5.2276 g	5 mL		
180-82446-E-3	POS-SED-R14-S1 (0-0.5')	5035, EPA 8260C	T	33.92 g	39.8461 g	5.9261 g	5 mL		
180-82446-F-4	POS-SED-R14-S2 (5-10')	5035, EPA 8260C	T	34.46 g	40.0092 g	5.5492 g	5 mL		
180-82446-F-5	POS-SED-L15-S1 (0-0.5')	5035, EPA 8260C	T	34.07 g	39.2158 g	5.1458 g	5 mL		
180-82446-F-6	POS-SED-L15-S2 (5-10')	5035, EPA 8260C	T	34.64 g	39.7265 g	5.0865 g	5 mL		

Batch Notes	
Balance ID	14234771
Batch Comment	2922076-MEOH
Blank Matrix ID	2cb0289
Vial Lot Number	0108901D

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method 8270D Low Level

Semivolatile Organic Compounds (GC/MS) Low Level by Method 8270D

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Matrix: Sediment Level: Low

GC Column (1): Rxi-5SilMS ID: 0.32(mm)

Client Sample ID	Lab Sample ID	NBZ #	FBP #	TPHL #
POS-SED-S12-S1 (0-0.5')	180-82446-1	102	99	87
POS-SED-S12-S2 (5-10')	180-82446-2	97	101	90
POS-SED-R14-S1 (0-0.5')	180-82446-3	54	55	48
POS-SED-R14-S2 (5-10')	180-82446-4	70	70	55
POS-SED-L15-S1 (0-0.5')	180-82446-5	71	71	62
POS-SED-L15-S2 (5-10')	180-82446-6	61	62	69
	MB 180-259105/1-A	81	84	129
	LCS 180-259105/2-A	79	82	80
	180-82503-A-2-A MS	64	64	56
	180-82503-A-2-B MSD	87	81	79

	QC LIMITS
NBZ = Nitrobenzene-d5 (Surr)	39-105
FBP = 2-Fluorobiphenyl	39-105
TPHL = Terphenyl-d14 (Surr)	28-148

Column to be used to flag recovery values

FORM II EPA 8270D LL

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Matrix: Sediment Level: Low Lab File ID: S1013008.D

Lab ID: LCS 180-259105/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Anthracene	333	316	95	46-102	
Benzo[a]anthracene	333	275	82	47-100	
Benzo[b]fluoranthene	333	278	83	41-100	
Benzo[k]fluoranthene	333	320	96	44-100	
Benzo[g,h,i]perylene	333	314	94	43-101	
Benzo[a]pyrene	333	317	95	47-100	
Chrysene	333	279	84	45-100	
Dibenz(a,h)anthracene	333	311	93	45-102	
Fluoranthene	333	282	85	47-101	
Fluorene	333	296	89	47-100	
Indeno[1,2,3-cd]pyrene	333	307	92	45-102	
Phenanthrene	333	307	92	45-100	
Pyrene	333	274	82	40-105	
Acenaphthene	333	301	90	46-100	
Acenaphthylene	333	284	85	44-100	
Naphthalene	333	260	78	45-100	

Column to be used to flag recovery and RPD values

FORM III EPA 8270D LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Matrix: Sediment Level: Low Lab File ID: S1013012.D

Lab ID: 180-82503-A-2-A MS Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Anthracene	824	7.1 J	586	70	46-102	
Benzo[a]anthracene	824	30	557	64	47-100	
Benzo[b]fluoranthene	824	140	647	61	41-100	
Benzo[k]fluoranthene	824	31	592	68	44-100	
Benzo[g,h,i]perylene	824	87	756	81	43-101	
Benzo[a]pyrene	824	57	654	72	47-100	
Chrysene	824	66	606	65	45-100	
Dibenz(a,h)anthracene	824	13 J	647	77	45-102	
Fluoranthene	824	66	595	64	47-101	
Fluorene	824	5.0 J	568	68	47-100	
Indeno[1,2,3-cd]pyrene	824	66	708	78	45-102	
Phenanthrene	824	39	592	67	45-100	
Pyrene	824	47	543	60	40-105	
Acenaphthene	824	4.7 U	578	70	46-100	
Acenaphthylene	824	3.6 U	544	66	44-100	
Naphthalene	824	3.4 J	488	59	45-100	

Column to be used to flag recovery and RPD values

FORM III EPA 8270D LL

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Matrix: Sediment Level: Low Lab File ID: S1013013.D

Lab ID: 180-82503-A-2-B MSD Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Anthracene	802	824	102	34	19	46-102	F2
Benzo[a]anthracene	802	749	90	29	17	47-100	F2
Benzo[b]fluoranthene	802	769	78	17	17	41-100	
Benzo[k]fluoranthene	802	779	93	27	15	44-100	F2
Benzo[g,h,i]perylene	802	948	107	23	19	43-101	F1 F2
Benzo[a]pyrene	802	813	94	22	17	47-100	F2
Chrysene	802	758	86	22	19	45-100	F2
Dibenz(a,h)anthracene	802	856	105	28	18	45-102	F1 F2
Fluoranthene	802	796	91	29	17	47-101	F2
Fluorene	802	767	95	30	19	47-100	F2
Indeno[1,2,3-cd]pyrene	802	904	104	24	18	45-102	F1 F2
Phenanthrene	802	814	97	32	17	45-100	F2
Pyrene	802	674	78	22	21	40-105	F2
Acenaphthene	802	780	97	30	20	46-100	F2
Acenaphthylene	802	739	92	30	20	44-100	F2
Naphthalene	802	688	85	34	15	45-100	F2

Column to be used to flag recovery and RPD values

FORM III EPA 8270D LL

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Lab File ID: S1013007.D Lab Sample ID: MB 180-259105/1-A

Matrix: Sediment Date Extracted: 10/08/2018 09:24

Instrument ID: CH71 Date Analyzed: 10/13/2018 13:56

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 180-259105/2-A	S1013008.D	10/13/2018 14:23
	180-82503-A-2-A MS	S1013012.D	10/13/2018 16:14
	180-82503-A-2-B MSD	S1013013.D	10/13/2018 16:42
POS-SED-S12-S1 (0-0.5')	180-82446-1	S1013030.D	10/14/2018 00:32
POS-SED-S12-S2 (5-10')	180-82446-2	S1013031.D	10/14/2018 00:59
POS-SED-R14-S1 (0-0.5')	180-82446-3	S1014021.D	10/14/2018 20:42
POS-SED-R14-S2 (5-10')	180-82446-4	S1014022.D	10/14/2018 21:10
POS-SED-L15-S1 (0-0.5')	180-82446-5	S1014023.D	10/14/2018 21:38
POS-SED-L15-S2 (5-10')	180-82446-6	S1014024.D	10/14/2018 22:06

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Lab File ID: S0416002.D DFTPP Injection Date: 04/16/2018

Instrument ID: CH71 DFTPP Injection Time: 09:18

Analysis Batch No.: 242236

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	38.6	
68	Less than 2.0 % of mass 69	0.2	(0.5) 1
69	Mass 69 relative abundance	35.3	
70	Less than 2.0 % of mass 69	0.2	(0.6) 1
127	40.0 - 60.0 % of mass 198	43.2	
197	Less than 1.0 % of mass 198	0.2	
198	Base Peak, 100 % relative abundance	100.0	
199	5.0- 9.0 % of mass 198	6.7	
275	10.0 - 30.0 % of mass 198	25.4	
365	Greater than 1.0 % of mass 198	3.8	
441	Present but less than mass 443	10.7	(79.1) 3
442	Greater than 40.0 % of mass 198	68.1	
443	17.0 - 23.0 % of mass 442	13.6	(19.9) 2

1-Value is % mass 69 2-Value is % mass 442 3-Value is % mass 443

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 180-242236/3	S0416003.D	04/16/2018	09:38
	IC 180-242236/4	S0416004.D	04/16/2018	10:05
	IC 180-242236/5	S0416005.D	04/16/2018	10:33
	ICIS 180-242236/6	S0416006.D	04/16/2018	11:01
	IC 180-242236/7	S0416007.D	04/16/2018	11:29
	IC 180-242236/8	S0416008.D	04/16/2018	11:57
	IC 180-242236/9	S0416009.D	04/16/2018	12:25
	IC 180-242236/10	S0416010.D	04/16/2018	12:53

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Lab File ID: S1013003.D DFTPP Injection Date: 10/13/2018

Instrument ID: CH71 DFTPP Injection Time: 13:10

Analysis Batch No.: 259743

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	38.5	
68	Less than 2.0 % of mass 69	0.0	(0.0) 1
69	Mass 69 relative abundance	38.8	
70	Less than 2.0 % of mass 69	0.2	(0.4) 1
127	40.0 - 60.0 % of mass 198	44.9	
197	Less than 1.0 % of mass 198	0.4	
198	Base Peak, 100 % relative abundance	100.0	
199	5.0- 9.0 % of mass 198	7.1	
275	10.0 - 30.0 % of mass 198	28.0	
365	Greater than 1.0 % of mass 198	2.8	
441	Present but less than mass 443	6.5	(45.9) 3
442	Greater than 40.0 % of mass 198	70.4	
443	17.0 - 23.0 % of mass 442	14.1	(20.1) 2

1-Value is % mass 69 2-Value is % mass 442 3-Value is % mass 443

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 180-259743/4	S1013004.D	10/13/2018	13:28
	MB 180-259105/1-A	S1013007.D	10/13/2018	13:56
	LCS 180-259105/2-A	S1013008.D	10/13/2018	14:23
	180-82503-A-2-A MS	S1013012.D	10/13/2018	16:14
	180-82503-A-2-B MSD	S1013013.D	10/13/2018	16:42
POS-SED-S12-S1 (0-0.5')	180-82446-1	S1013030.D	10/14/2018	00:32
POS-SED-S12-S2 (5-10')	180-82446-2	S1013031.D	10/14/2018	00:59

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Lab File ID: S1014002.D DFTPP Injection Date: 10/14/2018

Instrument ID: CH71 DFTPP Injection Time: 13:01

Analysis Batch No.: 259751

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	39.0	
68	Less than 2.0 % of mass 69	0.0	(0.0) 1
69	Mass 69 relative abundance	40.7	
70	Less than 2.0 % of mass 69	0.2	(0.6) 1
127	40.0 - 60.0 % of mass 198	44.3	
197	Less than 1.0 % of mass 198	0.0	
198	Base Peak, 100 % relative abundance	100.0	
199	5.0- 9.0 % of mass 198	6.6	
275	10.0 - 30.0 % of mass 198	28.0	
365	Greater than 1.0 % of mass 198	2.4	
441	Present but less than mass 443	9.4	(84.6) 3
442	Greater than 40.0 % of mass 198	59.1	
443	17.0 - 23.0 % of mass 442	11.1	(18.8) 2

1-Value is % mass 69 2-Value is % mass 442 3-Value is % mass 443

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 180-259751/3	S1014003.D	10/14/2018	13:19
POS-SED-R14-S1 (0-0.5')	180-82446-3	S1014021.D	10/14/2018	20:42
POS-SED-R14-S2 (5-10')	180-82446-4	S1014022.D	10/14/2018	21:10
POS-SED-L15-S1 (0-0.5')	180-82446-5	S1014023.D	10/14/2018	21:38
POS-SED-L15-S2 (5-10')	180-82446-6	S1014024.D	10/14/2018	22:06

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Sample No.: CCVIS 180-259743/4 Date Analyzed: 10/13/2018 13:28

Instrument ID: CH71 GC Column: Rxi-5SilMS ID: 0.32(mm)

Lab File ID (Standard): S1013004.D Heated Purge: (Y/N) N

Calibration ID: 37658

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		161876	6.00	605249	7.20	292122	8.82
UPPER LIMIT		323752	6.50	1210498	7.70	584244	9.32
LOWER LIMIT		80938	5.50	302625	6.70	146061	8.32
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 180-259105/1-A		134857	5.99	522325	7.20	261665	8.82
LCS 180-259105/2-A		135377	5.99	517171	7.20	261314	8.82
180-82503-A-2-A MS		151526	6.00	545564	7.20	276666	8.82
180-82503-A-2-B MSD		150197	6.00	551275	7.21	284957	8.83
180-82446-1	POS-SED-S12-S1 (0-0.5')	144044	6.00	497934	7.21	252959	8.82
180-82446-2	POS-SED-S12-S2 (5-10')	141043	6.00	515132	7.21	259799	8.83

DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII EPA 8270D LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Sample No.: CCVIS 180-259743/4 Date Analyzed: 10/13/2018 13:28

Instrument ID: CH71 GC Column: Rxi-5SilMS ID: 0.32(mm)

Lab File ID (Standard): S1013004.D Heated Purge: (Y/N) N

Calibration ID: 37658

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		555083	10.18	592727	13.51	486702	16.34
UPPER LIMIT		1110166	10.68	1185454	14.01	973404	16.84
LOWER LIMIT		277542	9.68	296364	13.01	243351	15.84
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 180-259105/1-A		508063	10.18	529890	13.51	410658	16.33
LCS 180-259105/2-A		499382	10.18	572035	13.51	432299	16.34
180-82503-A-2-A MS		545768	10.18	667873	13.51	566150	16.34
180-82503-A-2-B MSD		546082	10.19	702634	13.53	629407	16.37
180-82446-1	POS-SED-S12-S1 (0-0.5')	501678	10.18	615768	13.51	602589	16.35
180-82446-2	POS-SED-S12-S2 (5-10')	501364	10.19	632030	13.53	611440	16.37

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII EPA 8270D LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Sample No.: CCVIS 180-259751/3 Date Analyzed: 10/14/2018 13:19

Instrument ID: CH71 GC Column: Rxi-5SilMS ID: 0.32(mm)

Lab File ID (Standard): S1014003.D Heated Purge: (Y/N) N

Calibration ID: 37658

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		154286	6.00	570146	7.21	283067	8.82
UPPER LIMIT		308572	6.50	1140292	7.71	566134	9.32
LOWER LIMIT		77143	5.50	285073	6.71	141534	8.32
LAB SAMPLE ID	CLIENT SAMPLE ID						
180-82446-3	POS-SED-R14-S1 (0-0.5')	132145	6.01	476159	7.21	243134	8.82
180-82446-4	POS-SED-R14-S2 (5-10')	136036	6.00	503338	7.20	258087	8.82
180-82446-5	POS-SED-L15-S1 (0-0.5')	130453	6.00	492082	7.21	262807	8.82
180-82446-6	POS-SED-L15-S2 (5-10')	134281	6.01	508769	7.21	269889	8.82

DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII EPA 8270D LL

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Sample No.: CCVIS 180-259751/3 Date Analyzed: 10/14/2018 13:19

Instrument ID: CH71 GC Column: Rxi-5SilMS ID: 0.32(mm)

Lab File ID (Standard): S1014003.D Heated Purge: (Y/N) N

Calibration ID: 37658

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		539422	10.18	601039	13.48	499494	16.29
UPPER LIMIT		1078844	10.68	1202078	13.98	998988	16.79
LOWER LIMIT		269711	9.68	300520	12.98	249747	15.79
LAB SAMPLE ID	CLIENT SAMPLE ID						
180-82446-3	POS-SED-R14-S1 (0-0.5')	472814	10.18	564945	13.51	500625	16.35
180-82446-4	POS-SED-R14-S2 (5-10')	514449	10.17	638993	13.51	570235	16.33
180-82446-5	POS-SED-L15-S1 (0-0.5')	509800	10.18	648308	13.52	604829	16.35
180-82446-6	POS-SED-L15-S2 (5-10')	527714	10.18	684317	13.52	651267	16.36

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII EPA 8270D LL

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh
Job No.: 180-82446-1
SDG No.:
Client Sample ID: POS-SED-S12-S1 (0-0.5')
Lab Sample ID: 180-82446-1
Matrix: Sediment
Lab File ID: S1013030.D
Analysis Method: EPA 8270D LL
Date Collected: 09/27/2018 10:20
Extract. Method: 3541
Date Extracted: 10/08/2018 09:24
Sample wt/vol: 30.2(g)
Date Analyzed: 10/14/2018 00:32
Con. Extract Vol.: 0.5(mL)
Dilution Factor: 4
Injection Volume: 2(uL)
Level: (low/med) Low
% Moisture: 17.0
GPC Cleanup:(Y/N) N
Analysis Batch No.: 259743
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-12-7	Anthracene	34		16	4.1
56-55-3	Benzo[a]anthracene	37		16	3.0
205-99-2	Benzo[b]fluoranthene	54		16	3.9
207-08-9	Benzo[k]fluoranthene	26		16	4.8
191-24-2	Benzo[g,h,i]perylene	34		16	3.4
50-32-8	Benzo[a]pyrene	42		16	3.5
218-01-9	Chrysene	63		16	3.1
53-70-3	Dibenz(a,h)anthracene	9.0	J	16	3.6
206-44-0	Fluoranthene	81		16	4.2
86-73-7	Fluorene	6.4	J	16	3.1
193-39-5	Indeno[1,2,3-cd]pyrene	26		16	3.2
85-01-8	Phenanthrene	36		16	4.3
129-00-0	Pyrene	89		16	3.8
83-32-9	Acenaphthene	11	J	16	4.6
208-96-8	Acenaphthylene	8.1	J	16	3.5
91-20-3	Naphthalene	29		16	3.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5 (Surr)	102		39-105
321-60-8	2-Fluorobiphenyl	99		39-105
1718-51-0	Terphenyl-d14 (Surr)	87		28-148

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013030.D
Lims ID: 180-82446-B-1-A
Client ID: POS-SED-S12-S1 (0-0.5')
Sample Type: Client
Inject. Date: 14-Oct-2018 00:32:30 ALS Bottle#: 28 Worklist Smp#: 30
Injection Vol: 2.0 ul Dil. Factor: 4.0000
Sample Info: 180-0024076-030
Misc. Info.: 180-82446-B-1-A
Operator ID: 001562 Instrument ID: CH71

Method: \\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\BNA_CH71.m
Limit Group: BNA 8270D ICAL
Last Update: 14-Oct-2018 11:23:25 Calib Date: 16-Apr-2018 17:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416021.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: fergusond Date: 14-Oct-2018 11:23:25

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.998	5.997	0.001	95	144044	8.00	
* 2 Naphthalene-d8	136	7.205	7.204	0.001	99	497934	8.00	
* 3 Acenaphthene-d10	164	8.819	8.817	0.002	94	252959	8.00	
* 4 Phenanthrene-d10	188	10.181	10.179	0.002	96	501678	8.00	
* 5 Chrysene-d12	240	13.514	13.508	0.006	96	615768	8.00	
* 6 Perylene-d12	264	16.346	16.344	0.002	99	602589	8.00	
$ 9 Nitrobenzene-d5	82	6.521	6.522	0.001	91	232446	10.2	
$ 10 2-Fluorobiphenyl	172	8.188	8.194	0.001	100	518325	9.90	
$ 12 Terphenyl-d14	244	11.864	11.868	0.007	99	570273	8.65	
58 Naphthalene	128	7.221	7.222	0.001	97	49712	0.7370	
85 Acenaphthylene	152	8.690	8.688	0.001	95	11423	0.2025	
88 Acenaphthene	153	8.851	8.852	0.007	87	10355	0.2703	
103 Fluorene	166	9.321	9.321	0.007	89	7397	0.1597	a
121 Phenanthrene	178	10.202	10.211	0.001	97	60298	0.9029	
122 Anthracene	178	10.250	10.256	0.006	96	56396	0.8424	
131 Fluoranthene	202	11.426	11.412	0.013	96	164531	2.02	
133 Pyrene	202	11.703	11.708	0.006	99	204617	2.23	
146 Benzo[a]anthracene	228	13.498	13.518	0.012	97	86173	0.9369	
147 Chrysene	228	13.557	13.579	0.007	97	136125	1.58	
152 Benzo[b]fluoranthene	252	15.576	15.593	0.017	95	145368	1.35	
153 Benzo[k]fluoranthene	252	15.614	15.614	0.002	42	63689	0.6533	Ma
154 Benzo[a]pyrene	252	16.223	16.223	0.002	76	94580	1.05	a
157 Indeno[1,2,3-cd]pyrene	276	18.493	18.528	0.012	95	67816	0.6547	
158 Dibenz(a,h)anthracene	278	18.525	18.525	-0.010	47	19725	0.2253	Ma
159 Benzo[g,h,i]perylene	276	19.027	19.083	-0.004	97	71939	0.8412	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

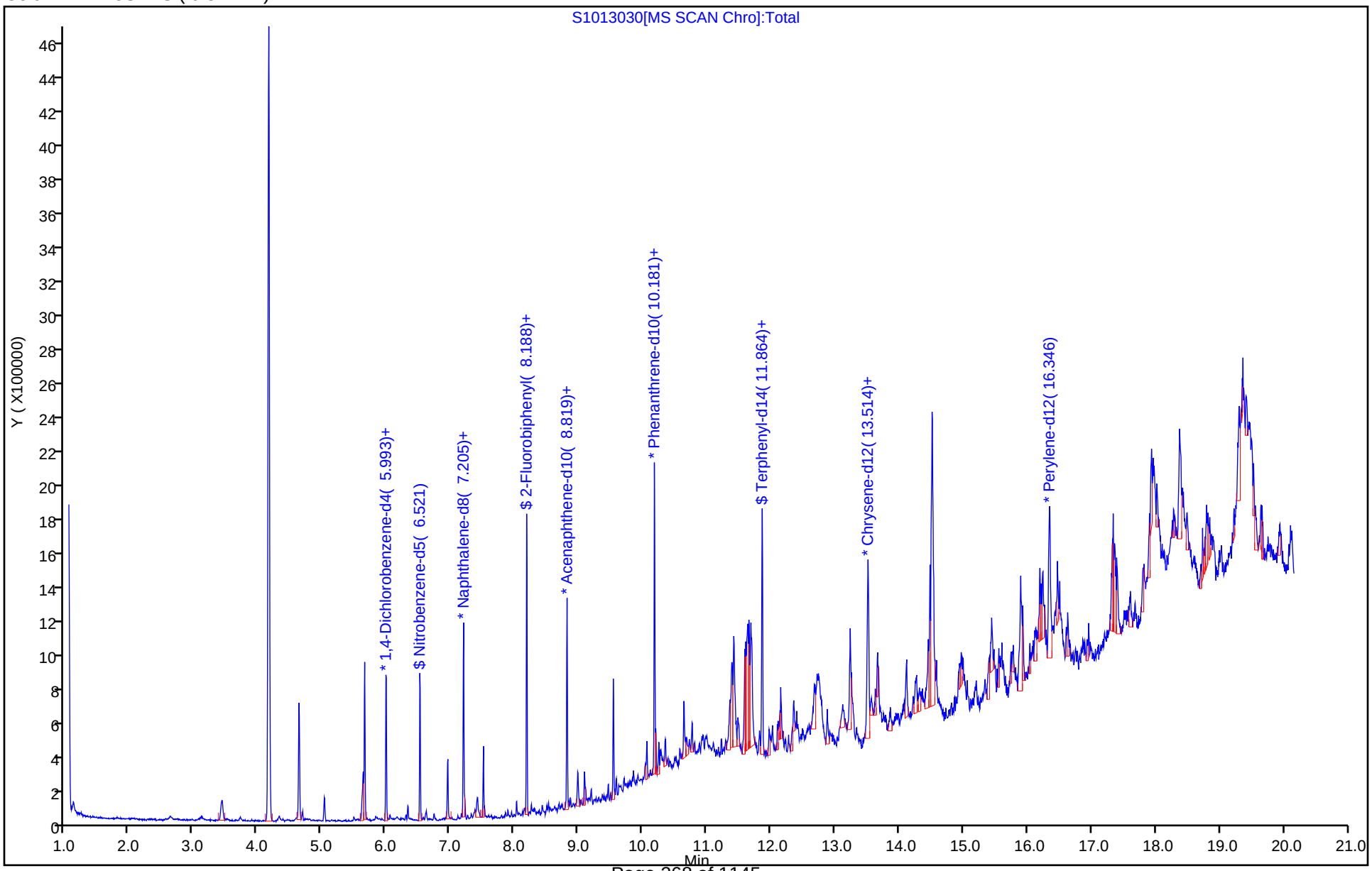
Reagents:

SVTAPITINTRNi_00018	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 14-Oct-2018 11:23:26 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013030.D				
Injection Date:	14-Oct-2018 00:32:30	Instrument ID:	CH71	Operator ID:	001562
Lims ID:	180-82446-B-1-A	Lab Sample ID:	180-82446-1	Worklist Smp#:	30
Client ID:	POS-SED-S12-S1 (0-0.5')				
Injection Vol:	2.0 ul	Dil. Factor:	4.0000	ALS Bottle#:	28
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column: Rxi-5SilMS (0.32 mm)					

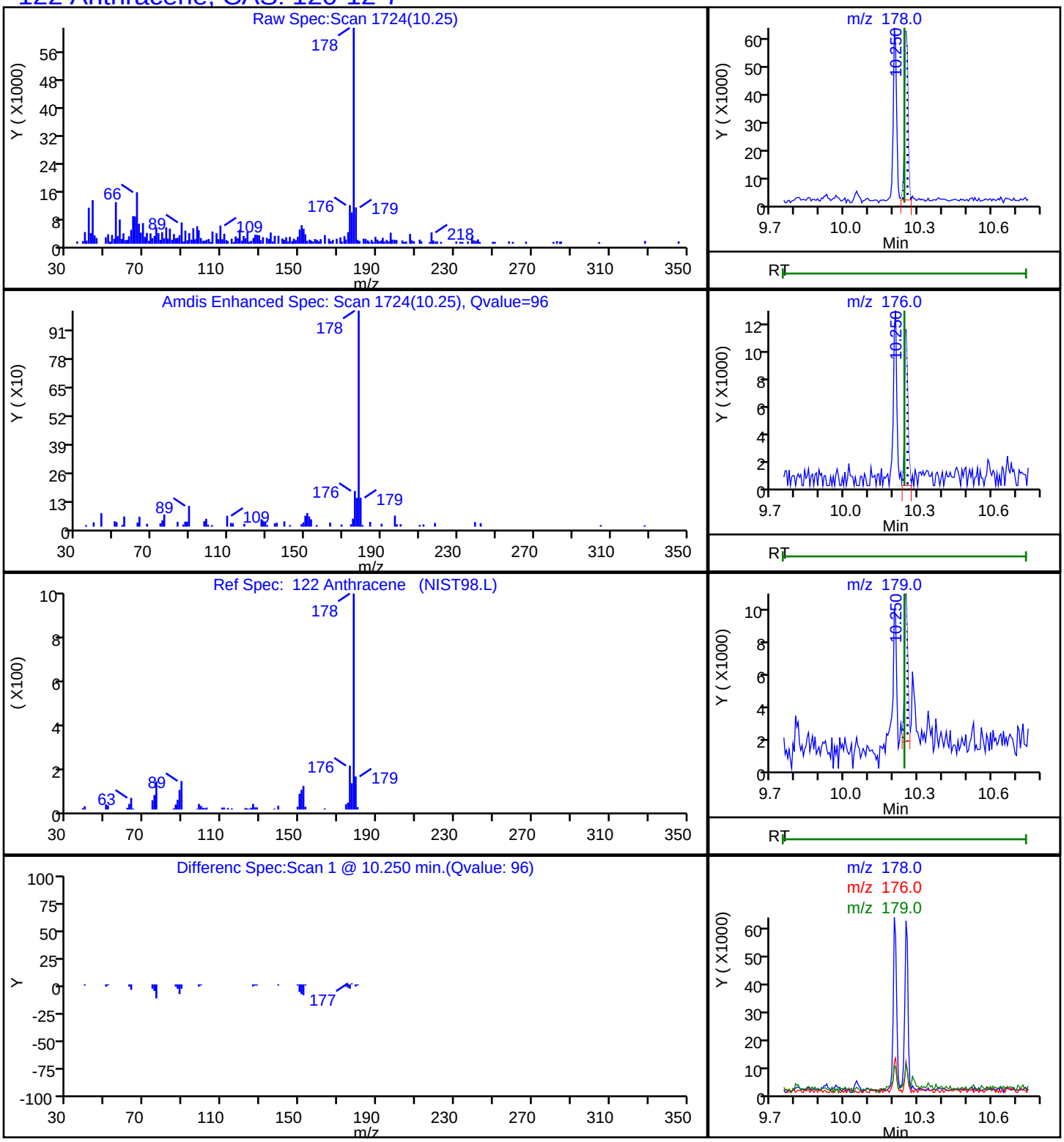


Report Date: 14-Oct-2018 11:23:27 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013030.D				
Injection Date:	14-Oct-2018 00:32:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-1-A	Lab Sample ID:	180-82446-1		
Client ID:	POS-SED-S12-S1 (0-0.5')				
Operator ID:	001562	ALS Bottle#:	28	Worklist Smp#:	30
Injection Vol:	2.0 ul	Dil. Factor:	4.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

122 Anthracene, CAS: 120-12-7



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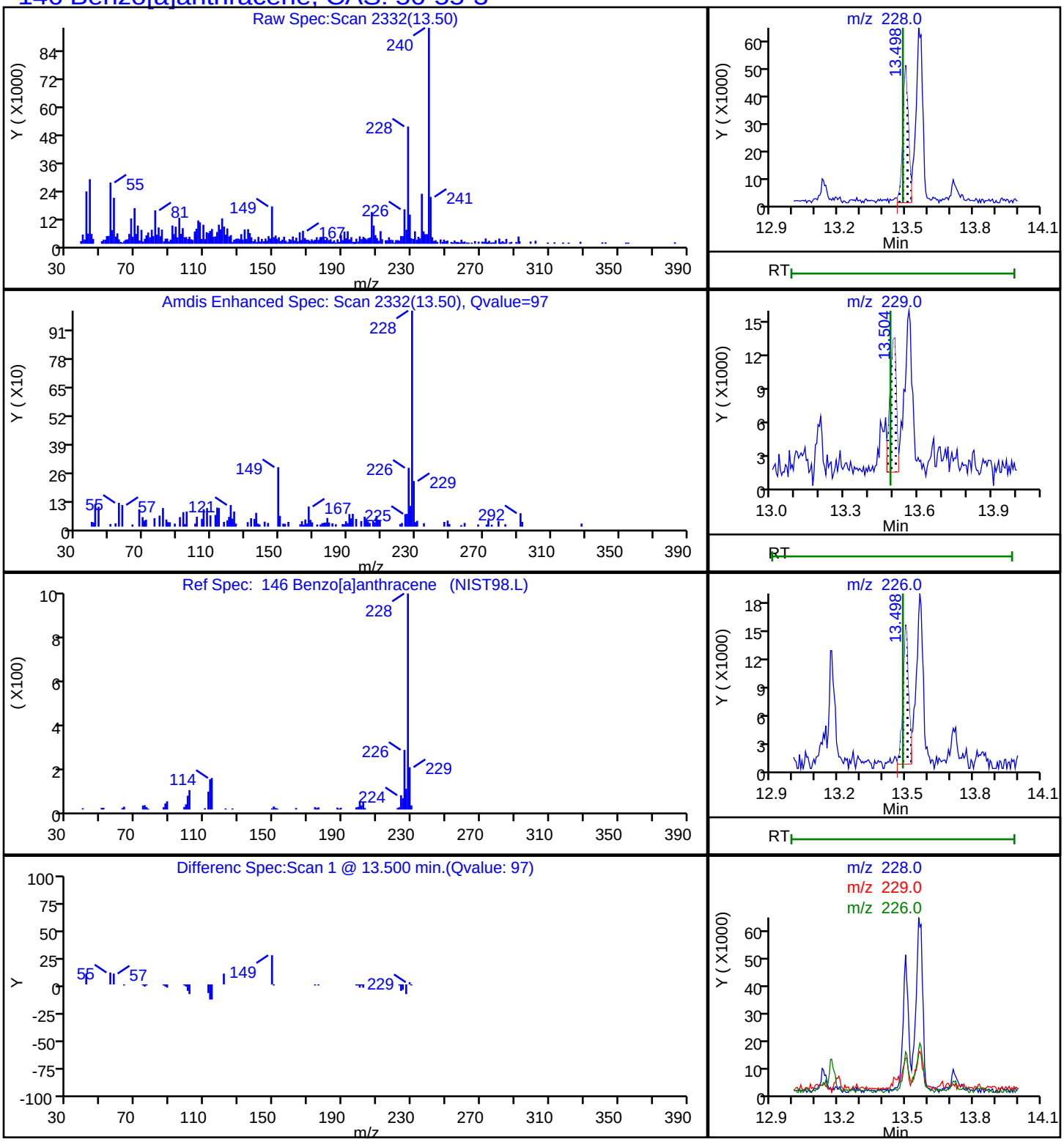
Injection Date:	14-Oct-2018 00:32:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-1-A	Lab Sample ID:	180-82446-1		
Client ID:	POS-SED-S12-S1 (0-0.5')				
Operator ID:	001562	ALS Bottle#:	28	Worklist Smp#:	30
Injection Vol:	2.0 ul	Dil. Factor:	4.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

146 Benzo[a]anthracene, CAS: 56-55-3



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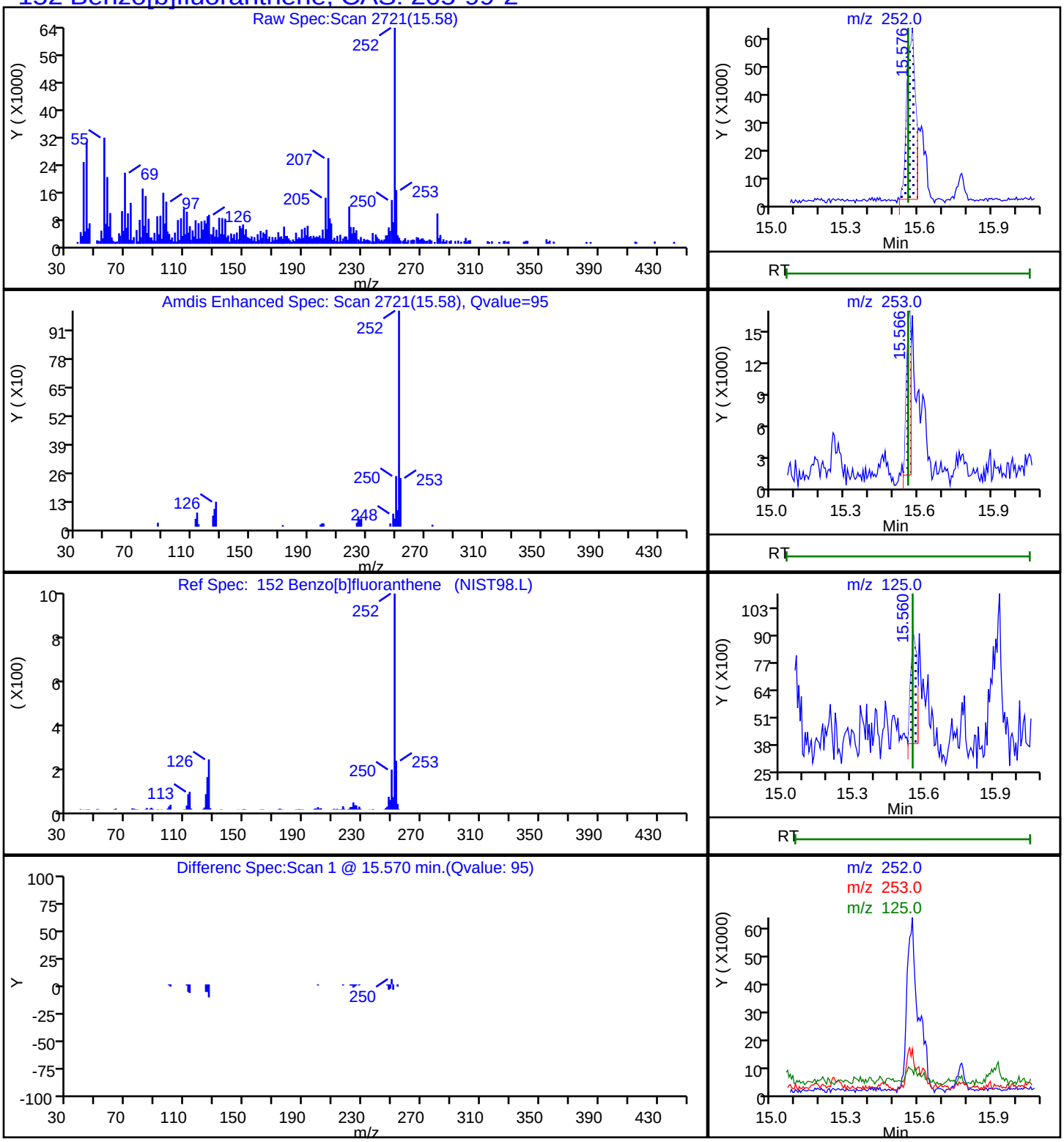
Injection Date:	14-Oct-2018 00:32:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-1-A	Lab Sample ID:	180-82446-1		
Client ID:	POS-SED-S12-S1 (0-0.5')				
Operator ID:	001562	ALS Bottle#:	28	Worklist Smp#:	30
Injection Vol:	2.0 ul	Dil. Factor:	4.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

152 Benzo[b]fluoranthene, CAS: 205-99-2



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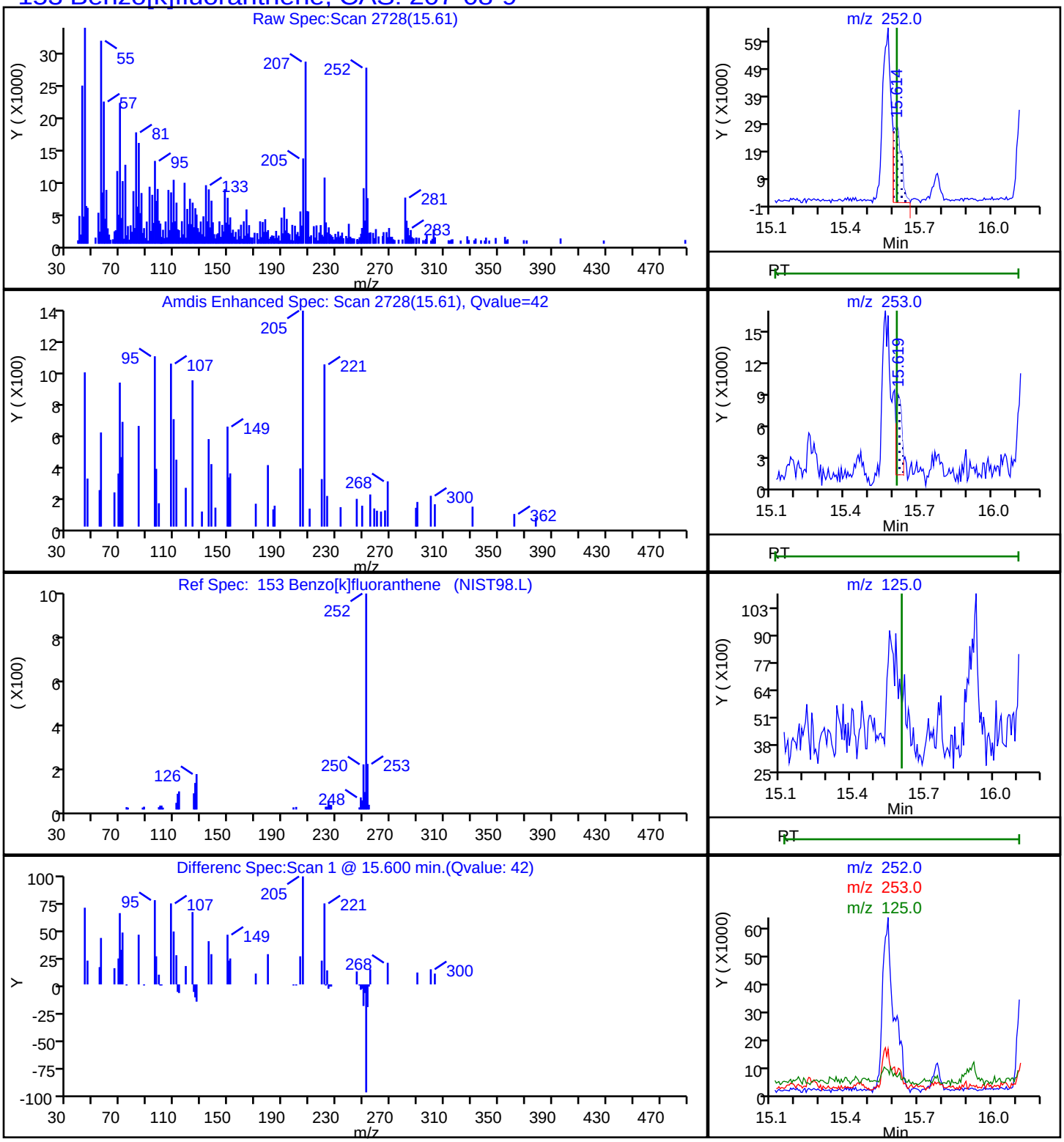
Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013030.D				
Injection Date:	14-Oct-2018 00:32:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-1-A	Lab Sample ID:	180-82446-1		
Client ID:	POS-SED-S12-S1 (0-0.5')				
Operator ID:	001562	ALS Bottle#:	28	Worklist Smp#:	30
Injection Vol:	2.0 ul	Dil. Factor:	4.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

153 Benzo[k]fluoranthene, CAS: 207-08-9

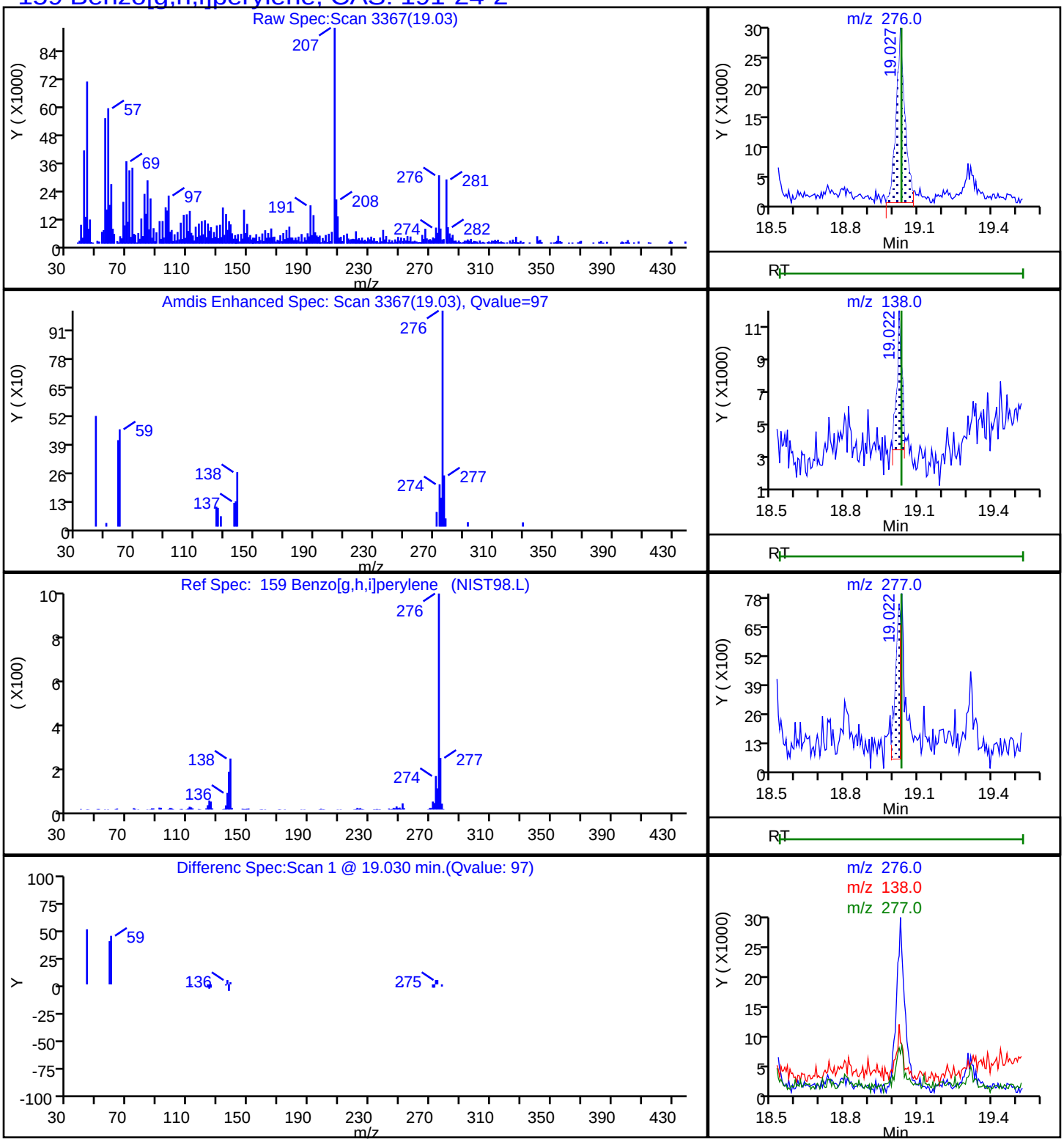


Report Date: 14-Oct-2018 11:23:28 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013030.D				
Injection Date:	14-Oct-2018 00:32:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-1-A	Lab Sample ID:	180-82446-1		
Client ID:	POS-SED-S12-S1 (0-0.5')				
Operator ID:	001562	ALS Bottle#:	28	Worklist Smp#:	30
Injection Vol:	2.0 ul	Dil. Factor:	4.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

159 Benzo[g,h,i]perylene, CAS: 191-24-2



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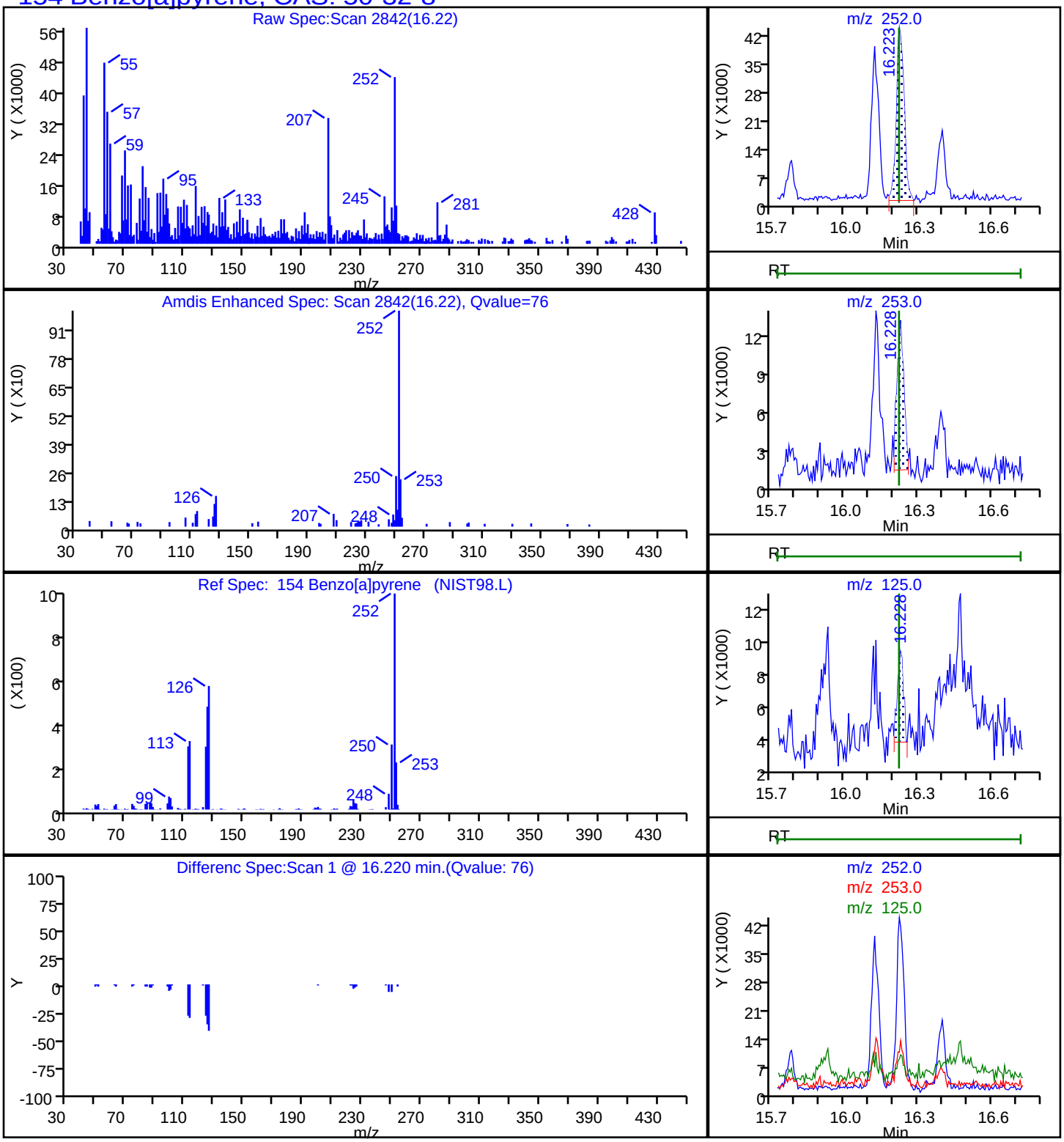
Injection Date:	14-Oct-2018 00:32:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-1-A	Lab Sample ID:	180-82446-1		
Client ID:	POS-SED-S12-S1 (0-0.5')				
Operator ID:	001562	ALS Bottle#:	28	Worklist Smp#:	30
Injection Vol:	2.0 ul	Dil. Factor:	4.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

154 Benzo[a]pyrene, CAS: 50-32-8



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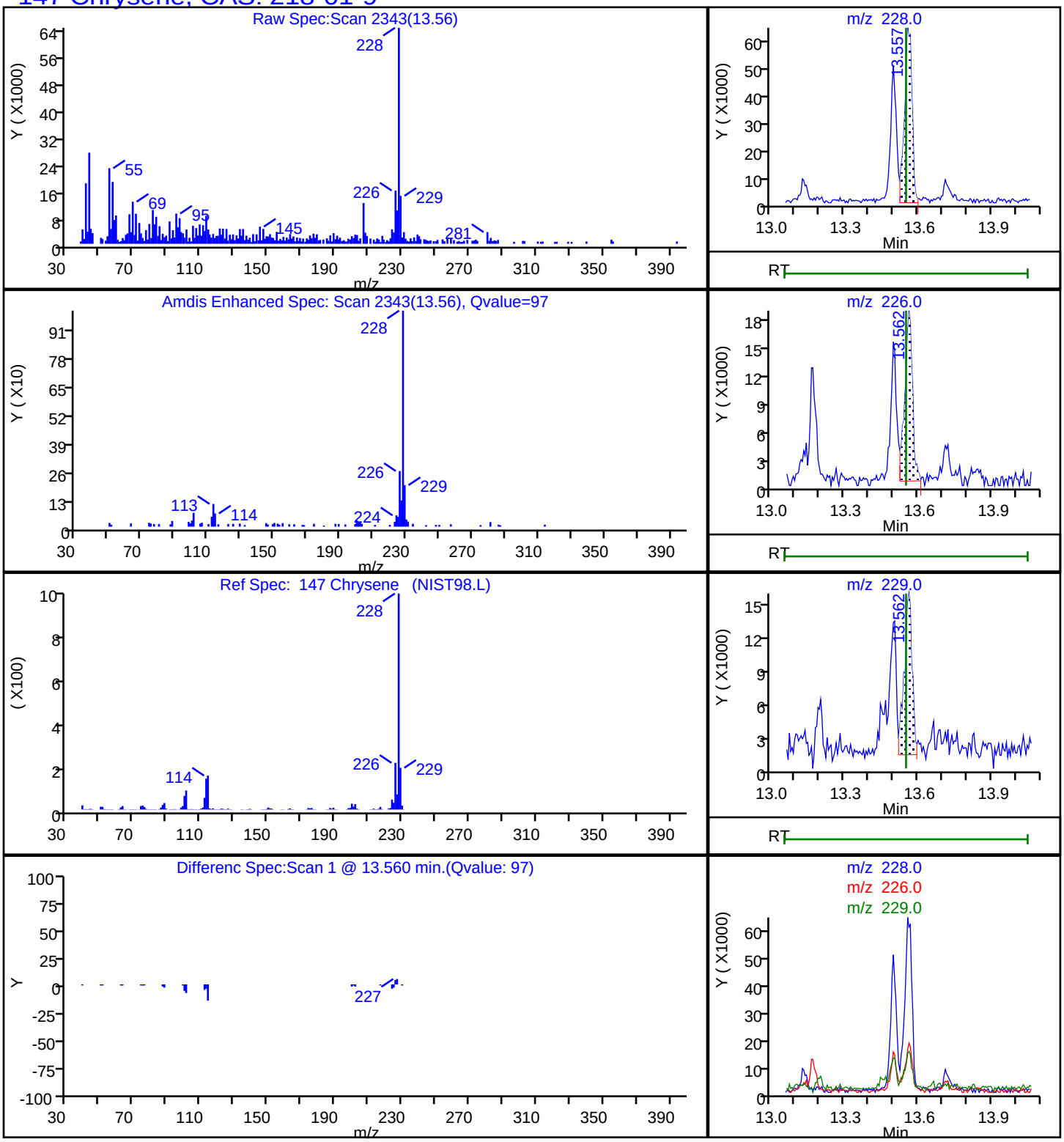
Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013030.D				
Injection Date:	14-Oct-2018 00:32:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-1-A	Lab Sample ID:	180-82446-1		
Client ID:	POS-SED-S12-S1 (0-0.5')				
Operator ID:	001562	ALS Bottle#:	28	Worklist Smp#:	30
Injection Vol:	2.0 ul	Dil. Factor:	4.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

147 Chrysene, CAS: 218-01-9



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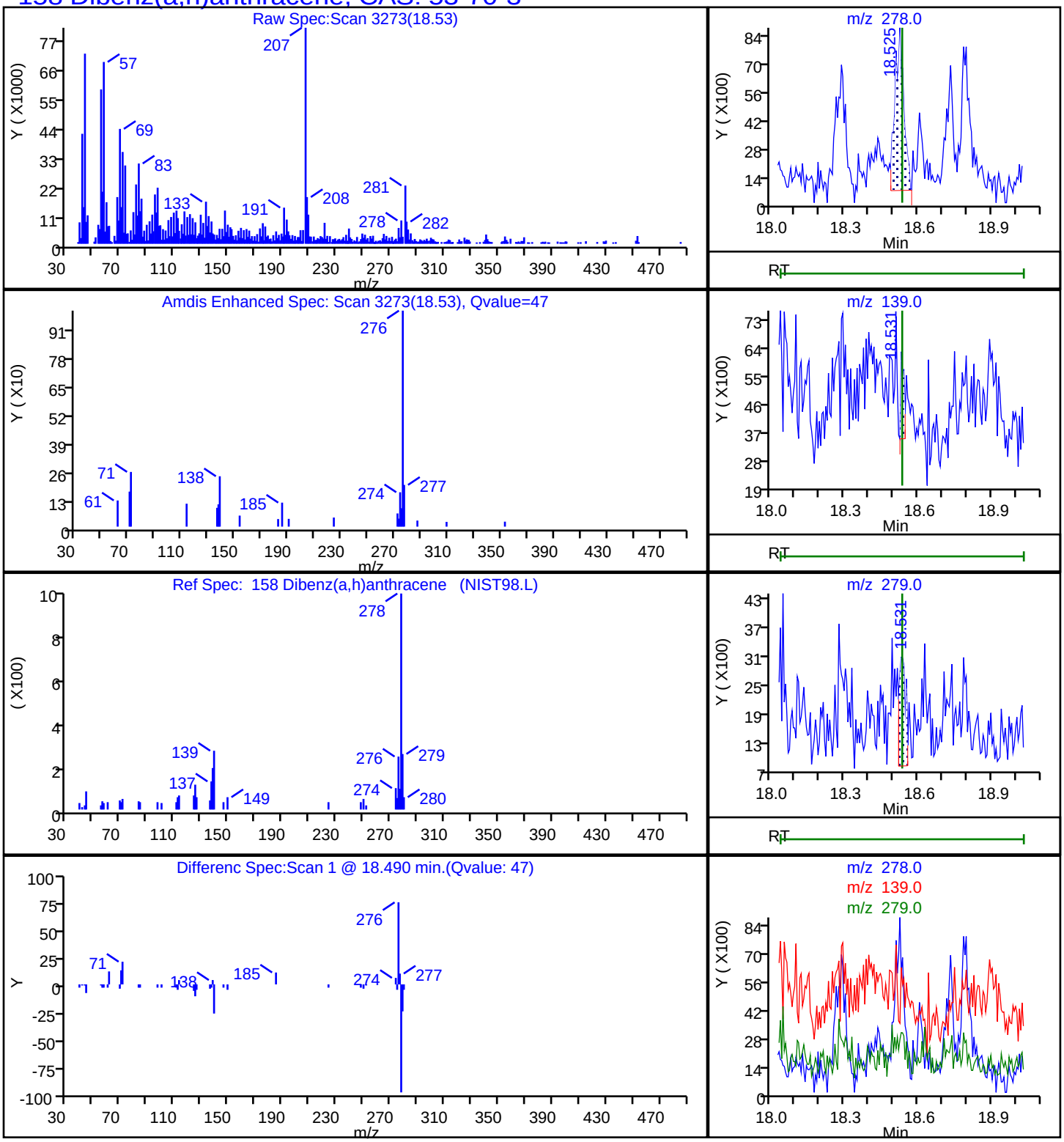
Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013030.D				
Injection Date:	14-Oct-2018 00:32:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-1-A	Lab Sample ID:	180-82446-1		
Client ID:	POS-SED-S12-S1 (0-0.5')				
Operator ID:	001562	ALS Bottle#:	28	Worklist Smp#:	30
Injection Vol:	2.0 ul	Dil. Factor:	4.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

158 Dibenz(a,h)anthracene, CAS: 53-70-3



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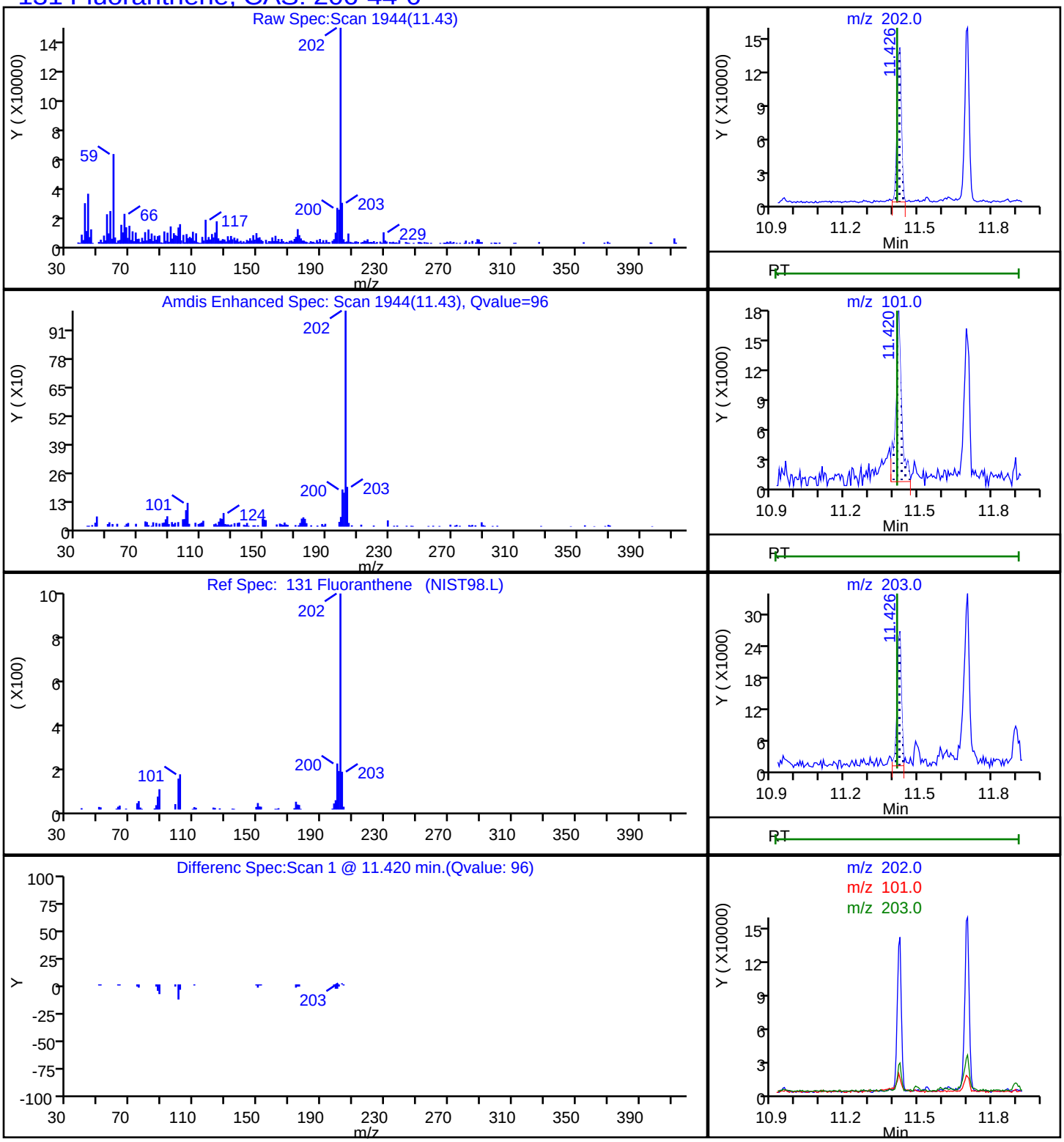
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013030.D				
Injection Date:	14-Oct-2018 00:32:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-1-A	Lab Sample ID:	180-82446-1		
Client ID:	POS-SED-S12-S1 (0-0.5')				
Operator ID:	001562	ALS Bottle#:	28	Worklist Smp#:	30
Injection Vol:	2.0 ul	Dil. Factor:	4.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

131 Fluoranthene, CAS: 206-44-0



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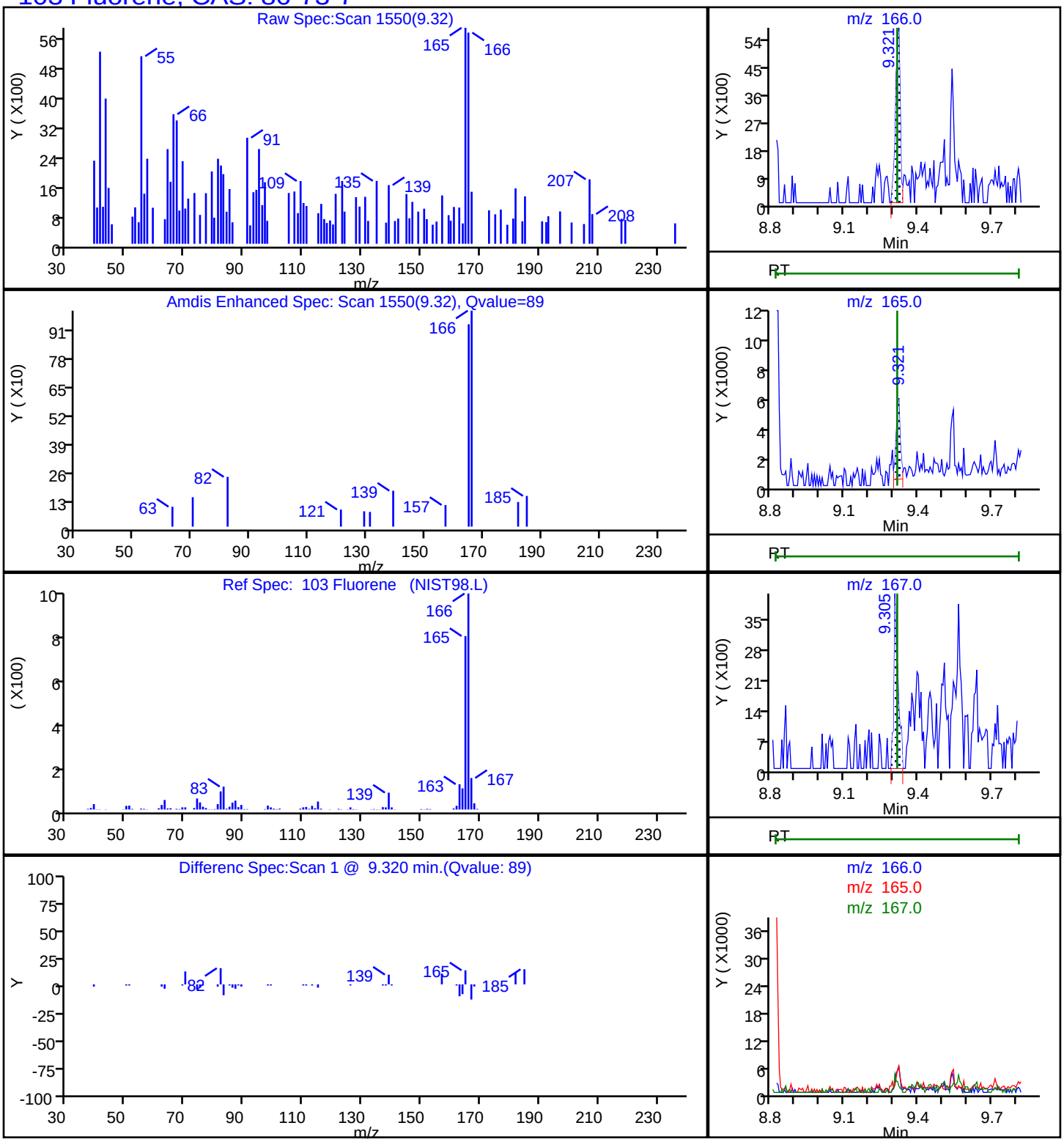
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013030.D				
Injection Date:	14-Oct-2018 00:32:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-1-A	Lab Sample ID:	180-82446-1		
Client ID:	POS-SED-S12-S1 (0-0.5')				
Operator ID:	001562	ALS Bottle#:	28	Worklist Smp#:	30
Injection Vol:	2.0 ul	Dil. Factor:	4.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

103 Fluorene, CAS: 86-73-7



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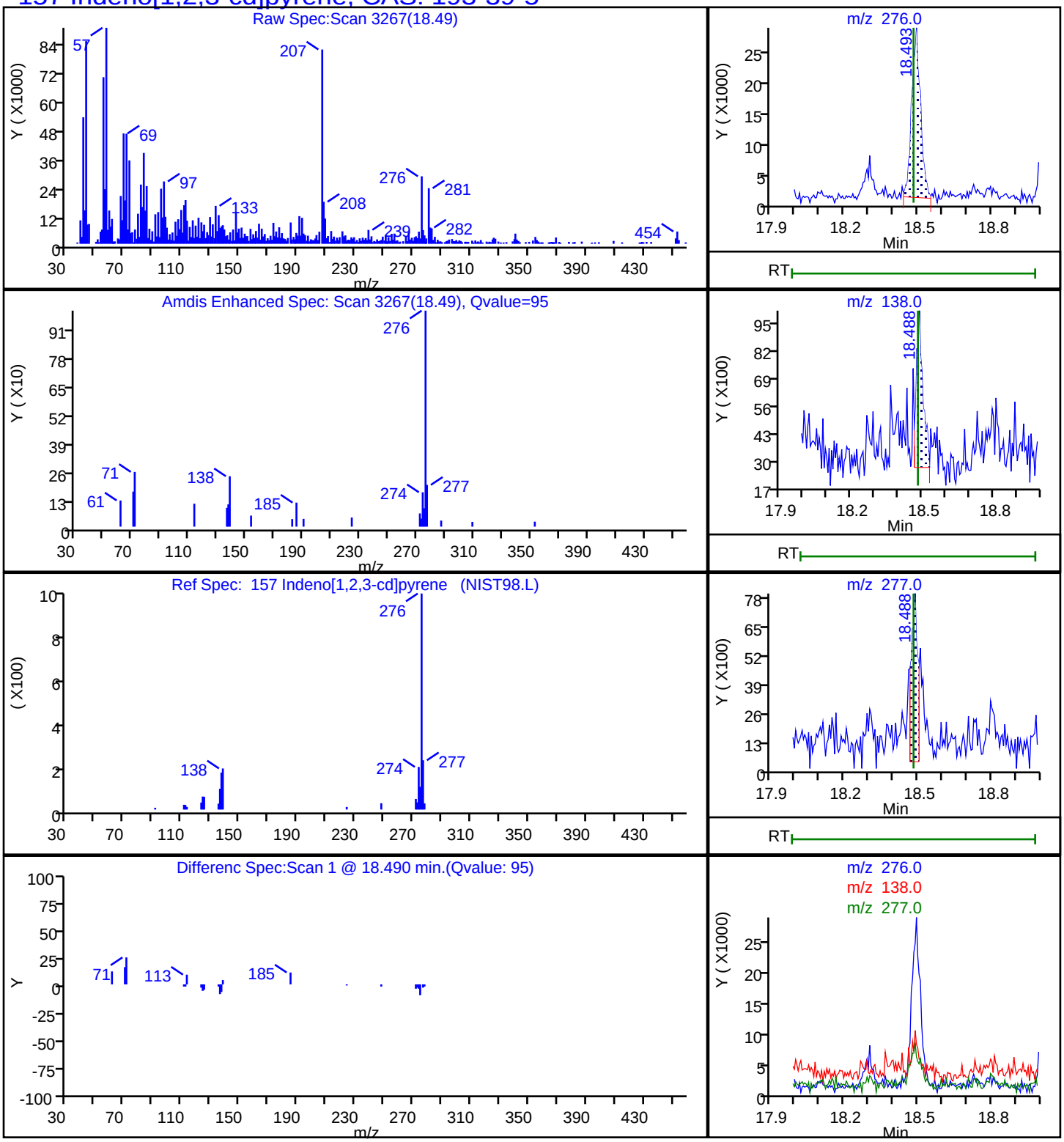
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013030.D				
Injection Date:	14-Oct-2018 00:32:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-1-A	Lab Sample ID:	180-82446-1		
Client ID:	POS-SED-S12-S1 (0-0.5')				
Operator ID:	001562	ALS Bottle#:	28	Worklist Smp#:	30
Injection Vol:	2.0 ul	Dil. Factor:	4.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

157 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

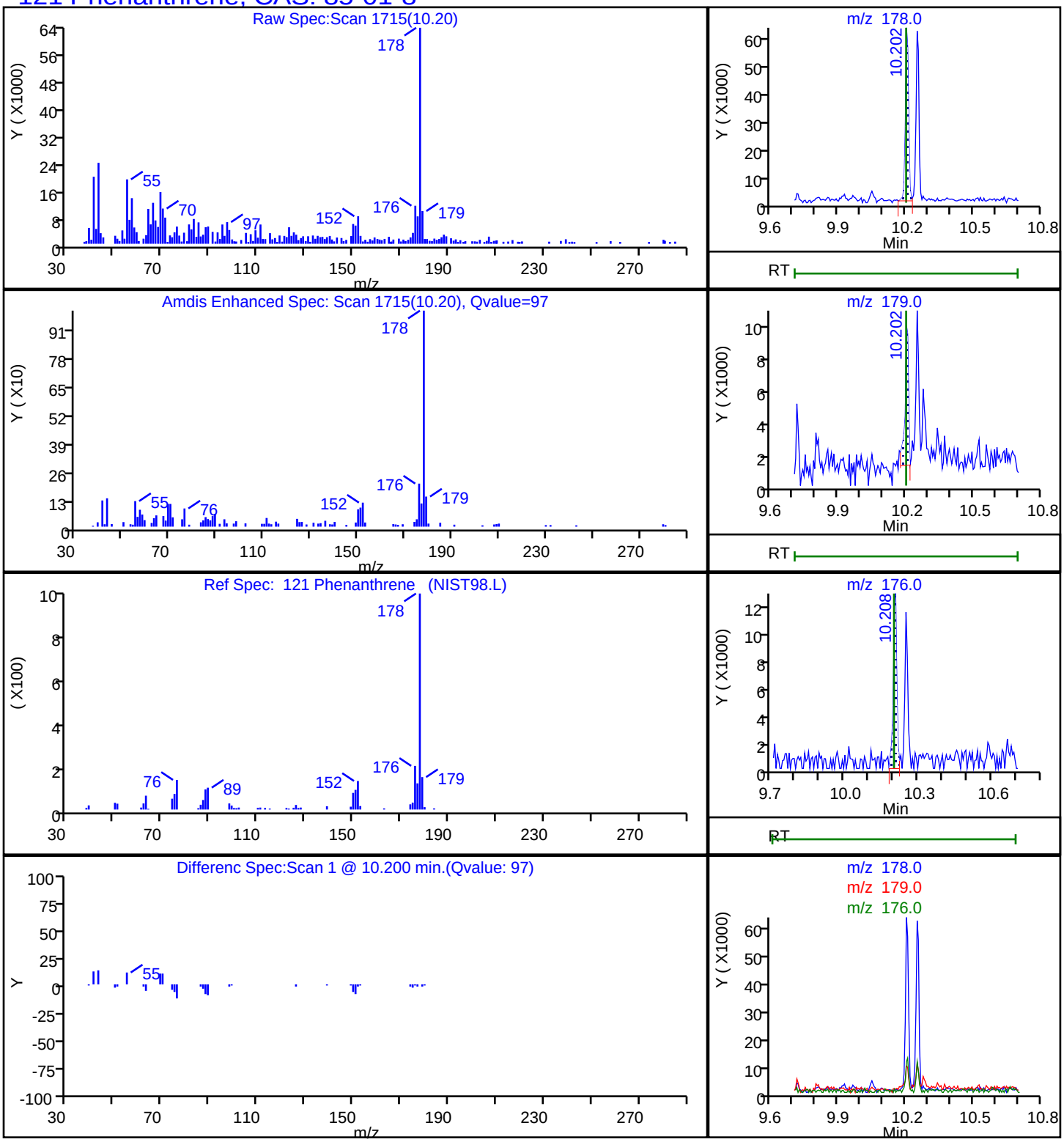


Report Date: 14-Oct-2018 11:23:27 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013030.D				
Injection Date:	14-Oct-2018 00:32:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-1-A	Lab Sample ID:	180-82446-1		
Client ID:	POS-SED-S12-S1 (0-0.5')				
Operator ID:	001562	ALS Bottle#:	28	Worklist Smp#:	30
Injection Vol:	2.0 ul	Dil. Factor:	4.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

121 Phenanthrene, CAS: 85-01-8



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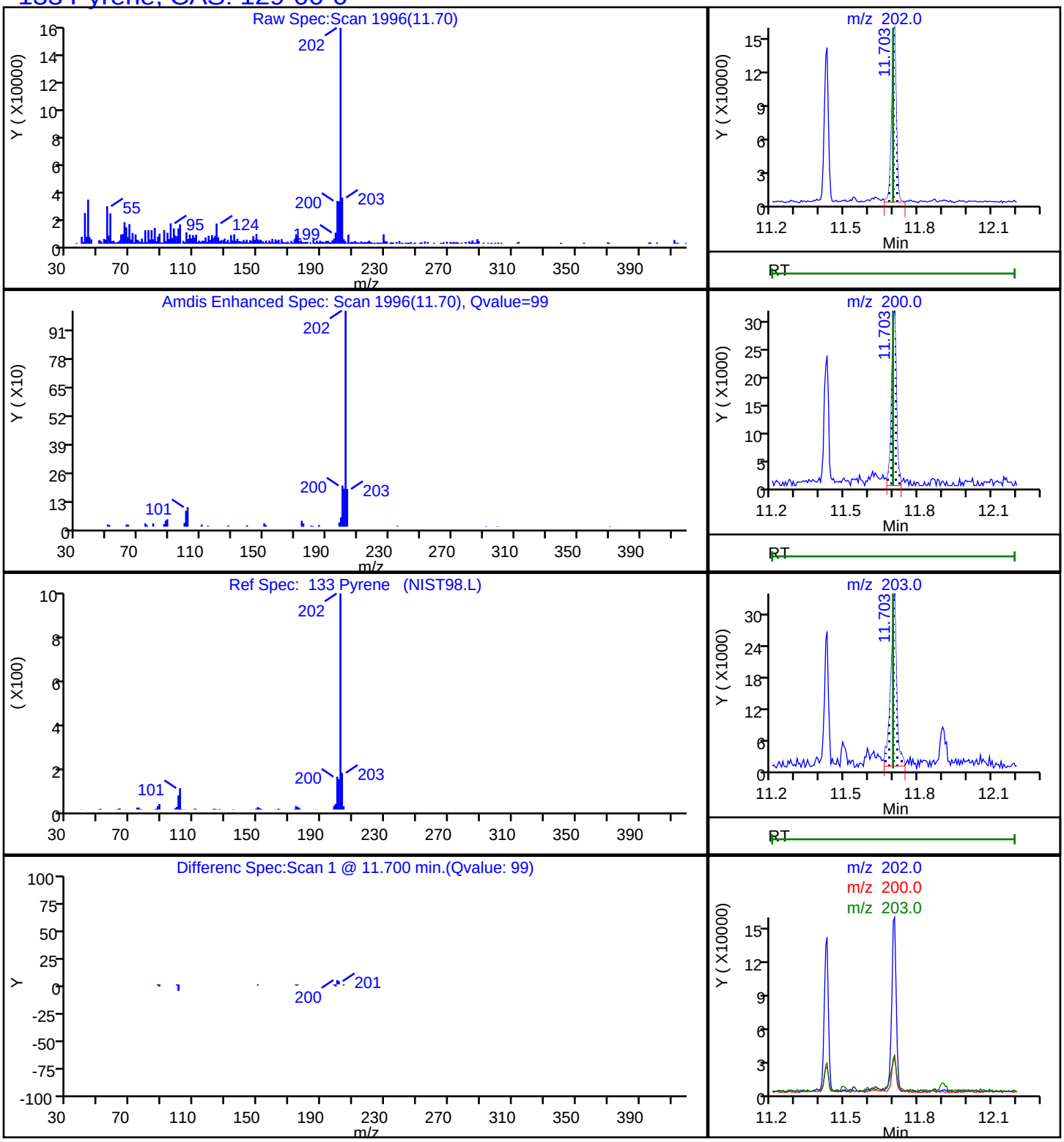
TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013030.D				
Injection Date:	14-Oct-2018 00:32:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-1-A	Lab Sample ID:	180-82446-1		
Client ID:	POS-SED-S12-S1 (0-0.5')				
Operator ID:	001562	ALS Bottle#:	28	Worklist Smp#:	30
Injection Vol:	2.0 ul	Dil. Factor:	4.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

133 Pyrene, CAS: 129-00-0



Report Date: 14-Oct-2018 11:23:26 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

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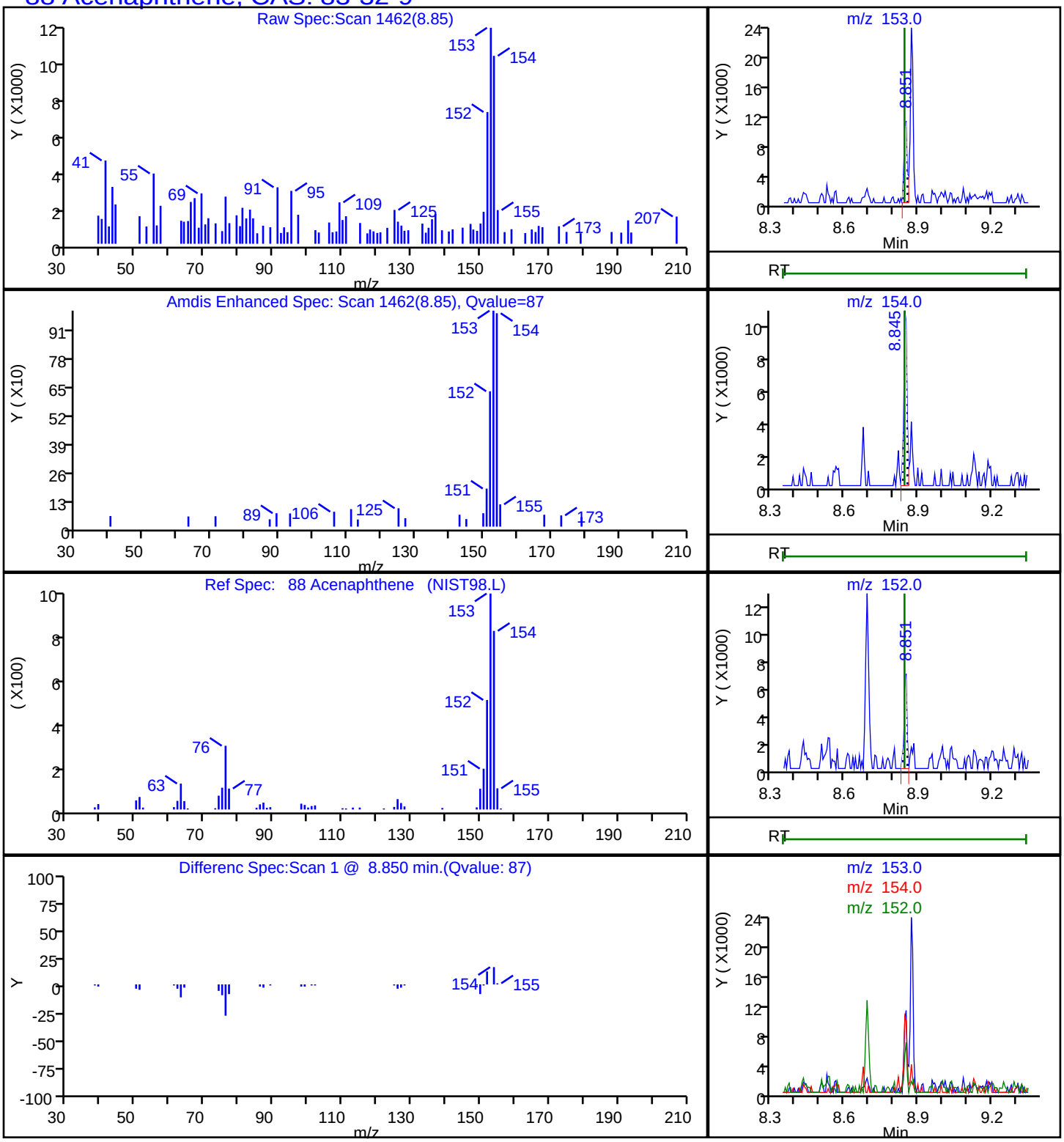
Lims ID:	180-82446-B-1-A	Lab Sample ID:	180-82446-1		
Client ID:	POS-SED-S12-S1 (0-0.5')				
Operator ID:	001562	ALS Bottle#:	28	Worklist Smp#:	30
Injection Vol:	2.0 ul	Dil. Factor:	4.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

88 Acenaphthene, CAS: 83-32-9

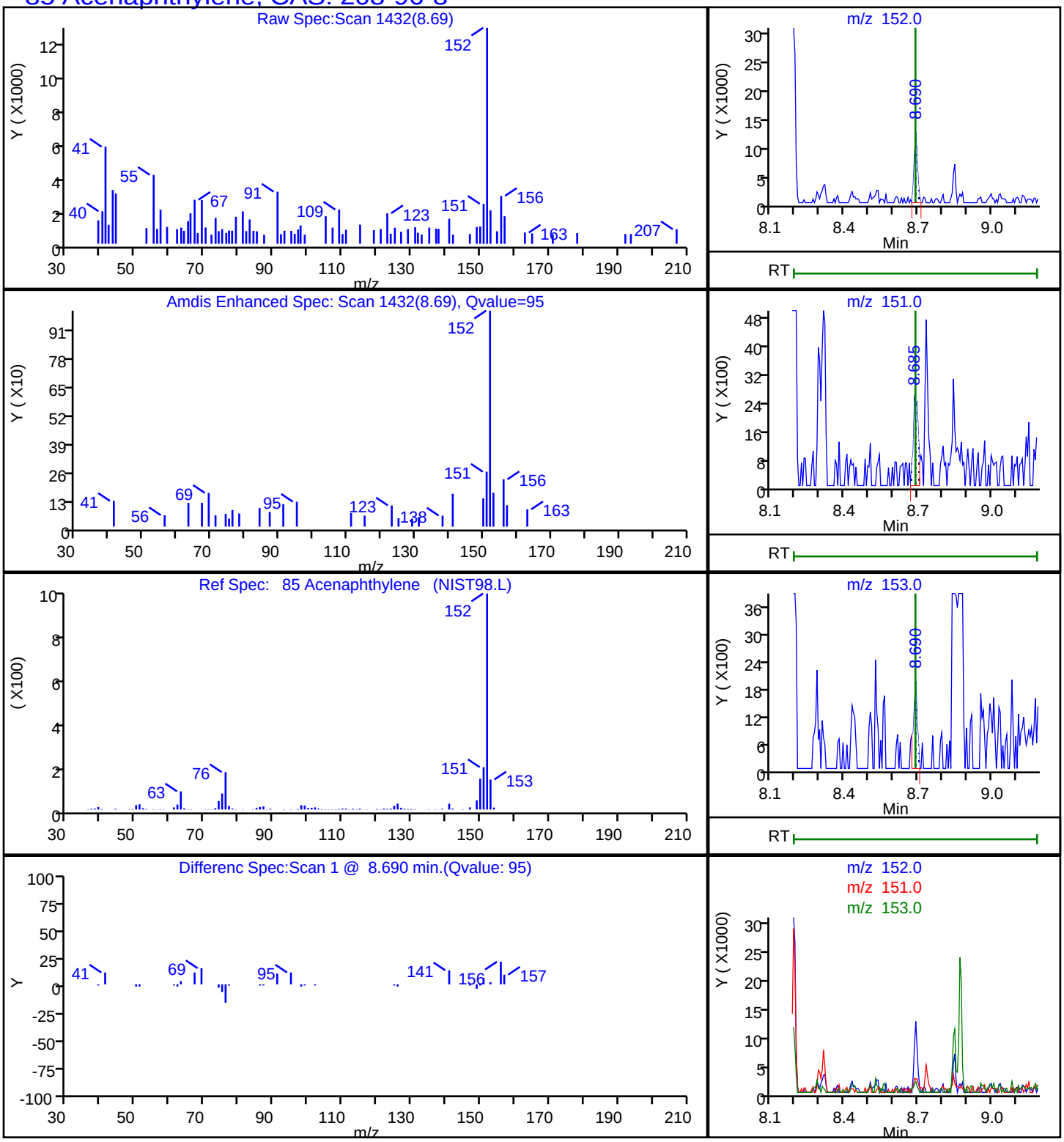


Report Date: 14-Oct-2018 11:23:26 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013030.D				
Injection Date:	14-Oct-2018 00:32:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-1-A	Lab Sample ID:	180-82446-1		
Client ID:	POS-SED-S12-S1 (0-0.5')				
Operator ID:	001562	ALS Bottle#:	28	Worklist Smp#:	30
Injection Vol:	2.0 ul	Dil. Factor:	4.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

85 Acenaphthylene, CAS: 208-96-8

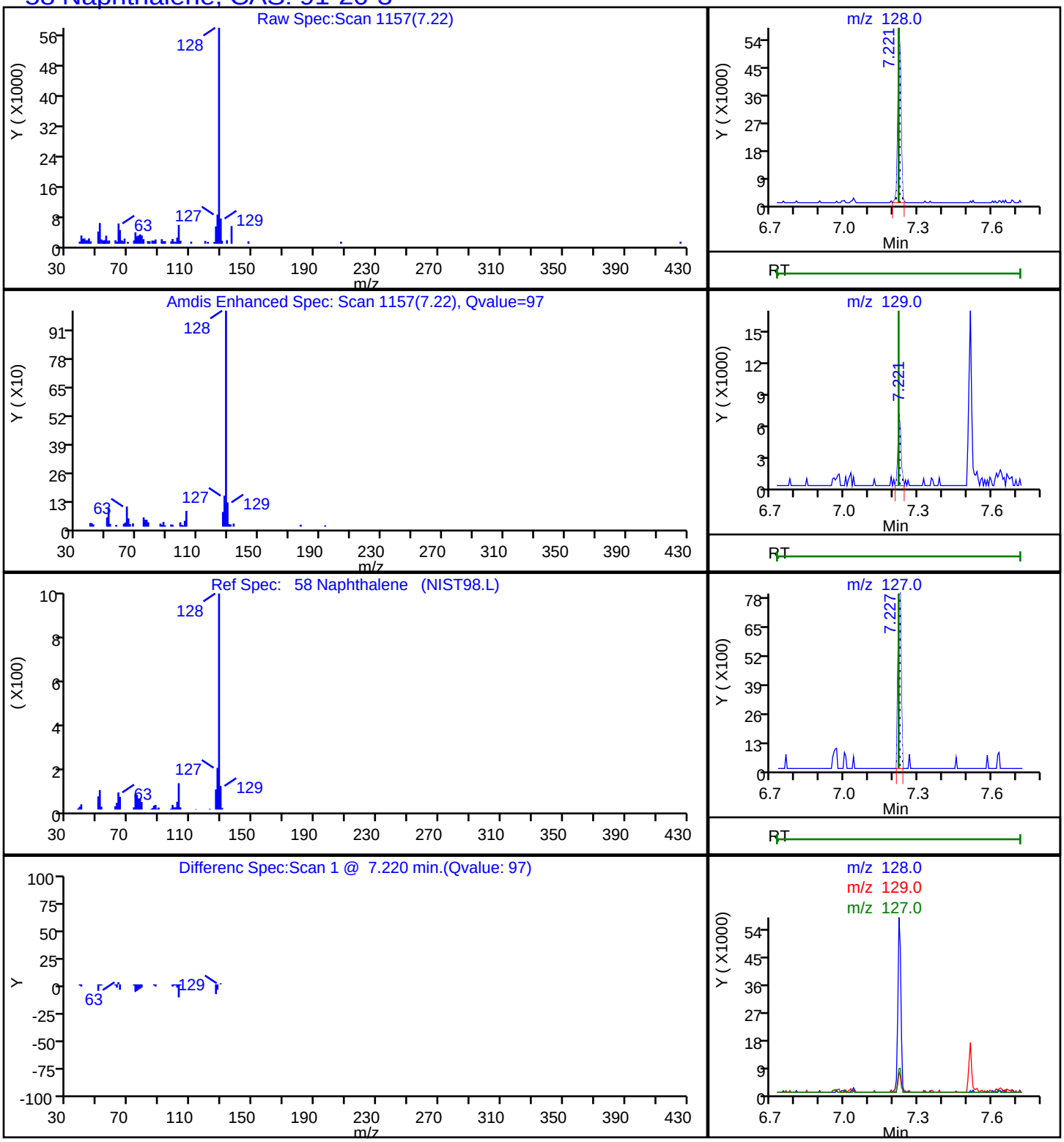


Report Date: 14-Oct-2018 11:23:26 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013030.D				
Injection Date:	14-Oct-2018 00:32:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-1-A	Lab Sample ID:	180-82446-1		
Client ID:	POS-SED-S12-S1 (0-0.5')				
Operator ID:	001562	ALS Bottle#:	28	Worklist Smp#:	30
Injection Vol:	2.0 ul	Dil. Factor:	4.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

58 Naphthalene, CAS: 91-20-3



Manual Integration/User Assign Peak Report

TestAmerica Pittsburgh

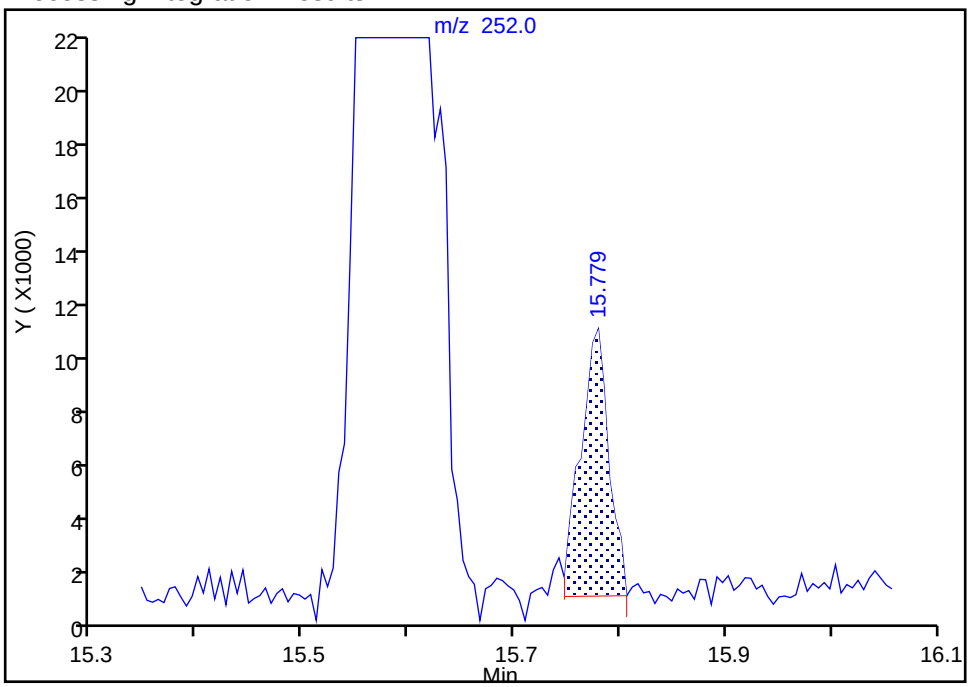
Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013030.D				
Injection Date:	14-Oct-2018 00:32:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-1-A	Lab Sample ID:	180-82446-1		
Client ID:	POS-SED-S12-S1 (0-0.5')				
Operator ID:	001562	ALS Bottle#:	28	Worklist Smp#:	30
Injection Vol:	2.0 ul	Dil. Factor:	4.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

153 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

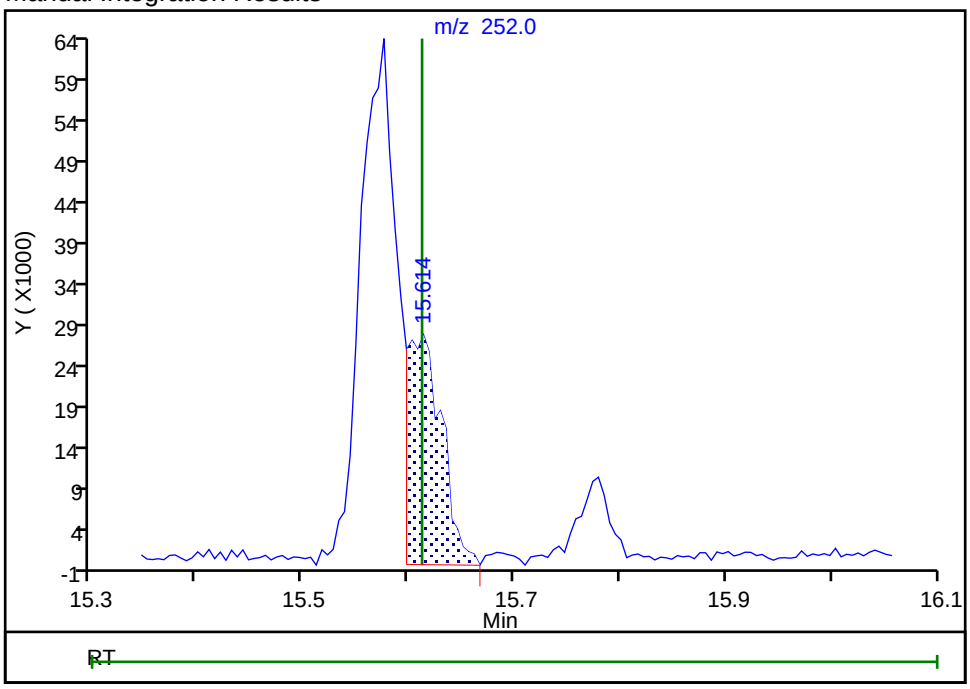
Processing Integration Results

RT: 15.78
Area: 17836
Amount: 0.182952
Amount Units: ng



Manual Integration Results

RT: 15.61
Area: 63689
Amount: 0.653288
Amount Units: ng



Reviewer: fergusond, 14-Oct-2018 11:22:31

Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

TestAmerica Pittsburgh

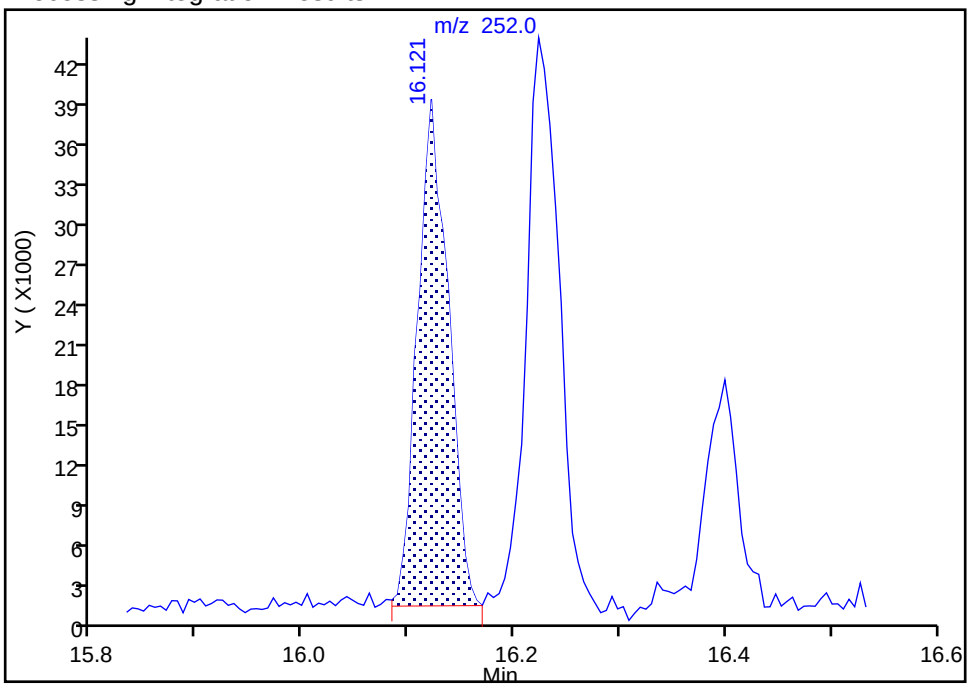
Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013030.D				
Injection Date:	14-Oct-2018 00:32:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-1-A	Lab Sample ID:	180-82446-1		
Client ID:	POS-SED-S12-S1 (0-0.5')				
Operator ID:	001562	ALS Bottle#:	28	Worklist Smp#:	30
Injection Vol:	2.0 ul	Dil. Factor:	4.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

154 Benzo[a]pyrene, CAS: 50-32-8

Signal: 1

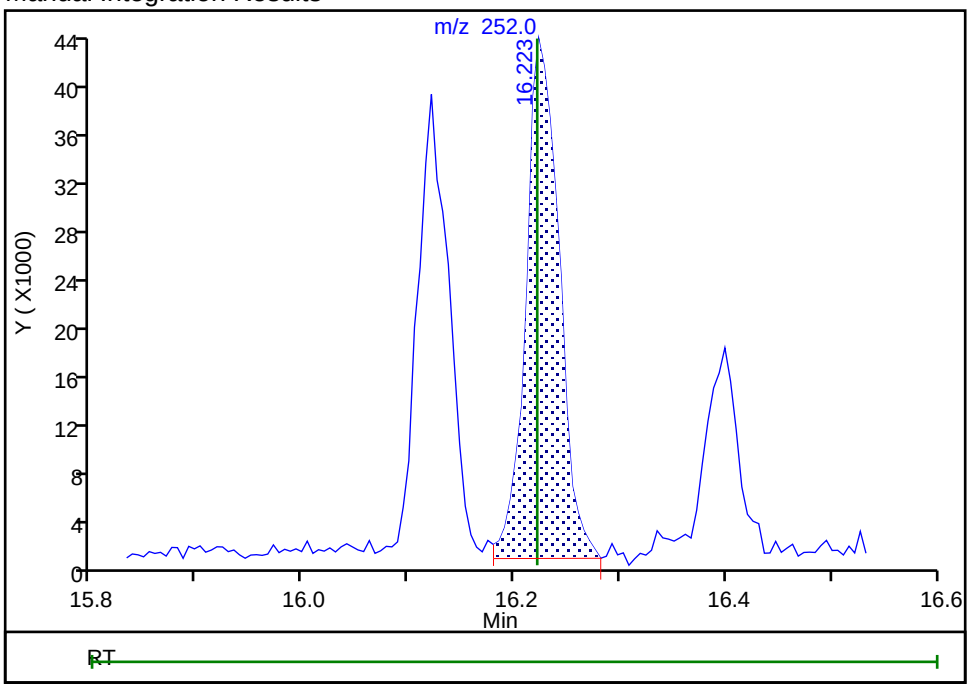
Processing Integration Results

RT: 16.12
Area: 77000
Amount: 0.851522
Amount Units: ng



Manual Integration Results

RT: 16.22
Area: 94580
Amount: 1.045934
Amount Units: ng



Reviewer: fergusond, 14-Oct-2018 11:22:40
Audit Action: Assigned Compound ID Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

TestAmerica Pittsburgh

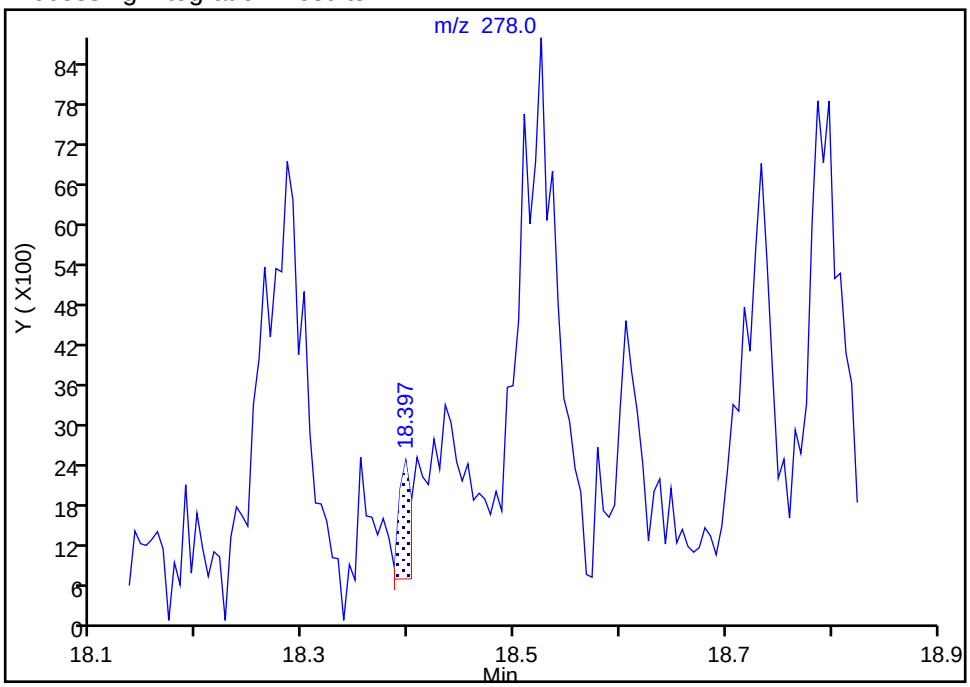
Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013030.D				
Injection Date:	14-Oct-2018 00:32:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-1-A	Lab Sample ID:	180-82446-1		
Client ID:	POS-SED-S12-S1 (0-0.5')				
Operator ID:	001562	ALS Bottle#:	28	Worklist Smp#:	30
Injection Vol:	2.0 ul	Dil. Factor:	4.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

158 Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

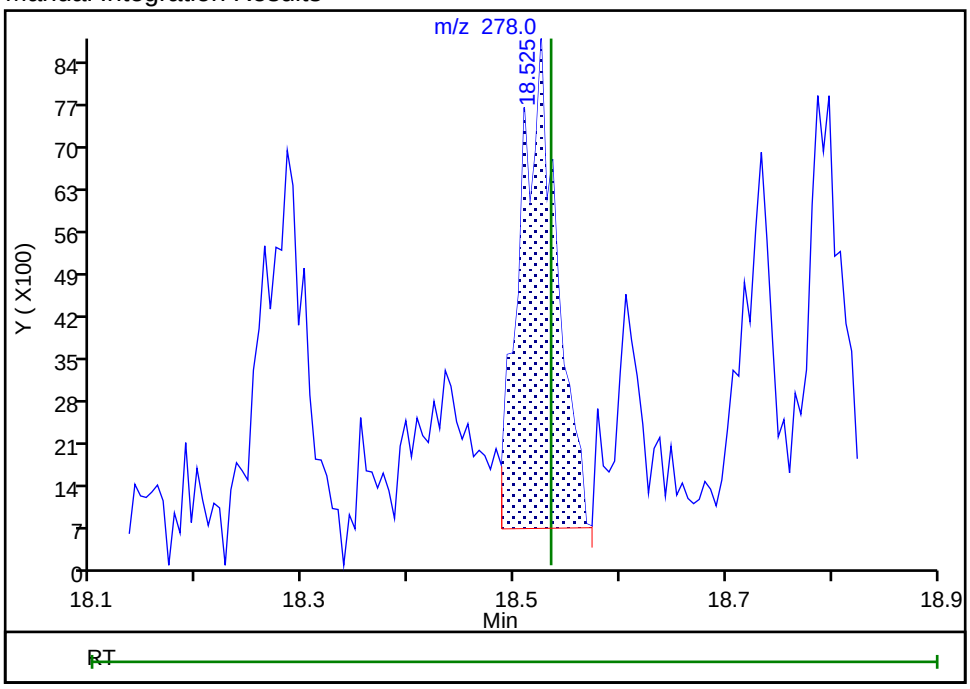
Processing Integration Results

RT: 18.40
Area: 1439
Amount: 0.016433
Amount Units: ng



Manual Integration Results

RT: 18.53
Area: 19725
Amount: 0.225258
Amount Units: ng



Reviewer: fergusond, 14-Oct-2018 11:23:01

Audit Action: Split an Integrated Peak Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

TestAmerica Pittsburgh

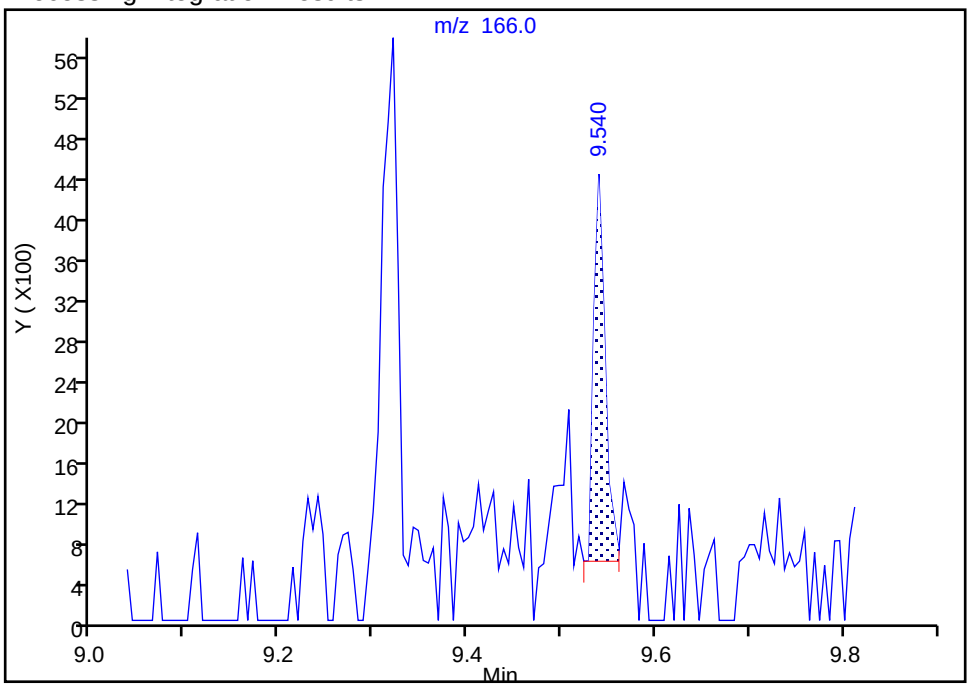
Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013030.D				
Injection Date:	14-Oct-2018 00:32:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-1-A	Lab Sample ID:	180-82446-1		
Client ID:	POS-SED-S12-S1 (0-0.5')				
Operator ID:	001562	ALS Bottle#:	28	Worklist Smp#:	30
Injection Vol:	2.0 ul	Dil. Factor:	4.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

103 Fluorene, CAS: 86-73-7

Signal: 1

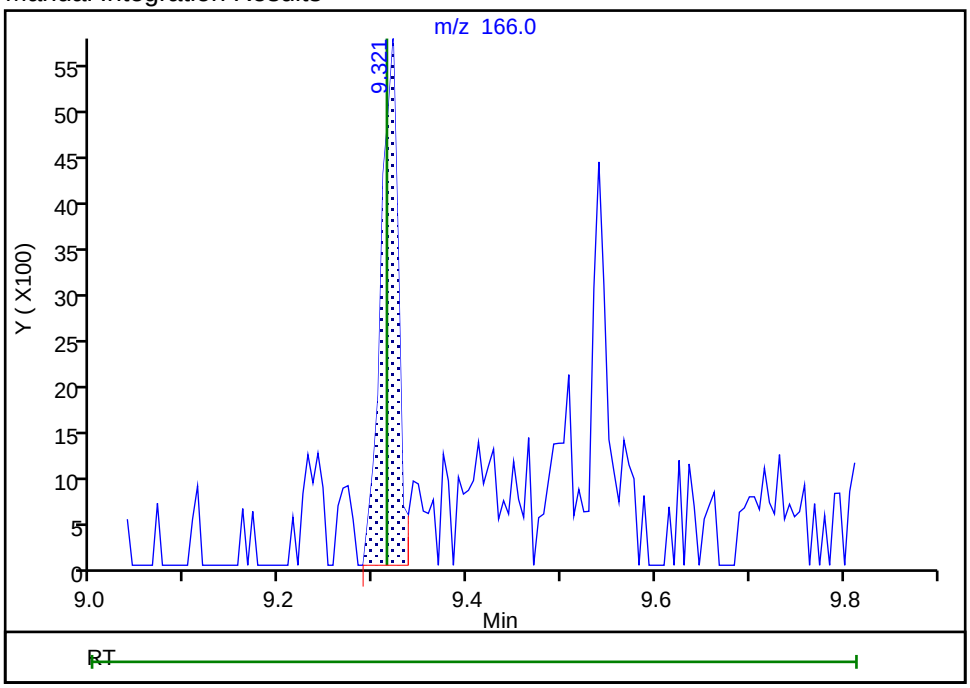
Processing Integration Results

RT: 9.54
Area: 3237
Amount: 0.069898
Amount Units: ng



Manual Integration Results

RT: 9.32
Area: 7397
Amount: 0.159728
Amount Units: ng



Reviewer: fergusond, 14-Oct-2018 11:21:50
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh
Job No.: 180-82446-1
SDG No.:
Client Sample ID: POS-SED-S12-S2 (5-10')
Lab Sample ID: 180-82446-2
Matrix: Sediment
Lab File ID: S1013031.D
Analysis Method: EPA 8270D LL
Date Collected: 09/27/2018 10:45
Extract. Method: 3541
Date Extracted: 10/08/2018 09:24
Sample wt/vol: 30.0(g)
Date Analyzed: 10/14/2018 00:59
Con. Extract Vol.: 0.5(mL)
Dilution Factor: 5
Injection Volume: 2(uL)
Level: (low/med) Low
% Moisture: 22.6
GPC Cleanup:(Y/N) N
Analysis Batch No.: 259743
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-12-7	Anthracene	97		22	5.6
56-55-3	Benzo[a]anthracene	130		22	4.1
205-99-2	Benzo[b]fluoranthene	150		22	5.3
207-08-9	Benzo[k]fluoranthene	50		22	6.5
191-24-2	Benzo[g,h,i]perylene	75		22	4.7
50-32-8	Benzo[a]pyrene	110		22	4.7
218-01-9	Chrysene	210		22	4.2
53-70-3	Dibenz(a,h)anthracene	18	J	22	4.8
206-44-0	Fluoranthene	290		22	5.7
86-73-7	Fluorene	26		22	4.2
193-39-5	Indeno[1,2,3-cd]pyrene	72		22	4.4
85-01-8	Phenanthrene	310		22	5.8
129-00-0	Pyrene	240		22	5.1
83-32-9	Acenaphthene	31		22	6.2
208-96-8	Acenaphthylene	15	J	22	4.7
91-20-3	Naphthalene	28		22	4.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5 (Surr)	97		39-105
321-60-8	2-Fluorobiphenyl	101		39-105
1718-51-0	Terphenyl-d14 (Surr)	90		28-148

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013031.D
Lims ID: 180-82446-C-2-C
Client ID: POS-SED-S12-S2 (5-10')
Sample Type: Client
Inject. Date: 14-Oct-2018 00:59:30 ALS Bottle#: 29 Worklist Smp#: 31
Injection Vol: 2.0 ul Dil. Factor: 5.0000
Sample Info: 180-0024076-031
Misc. Info.: 180-82446-C-2-C
Operator ID: 001562 Instrument ID: CH71

Method: \\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\BNA_CH71.m
Limit Group: BNA 8270D ICAL
Last Update: 14-Oct-2018 11:26:36 Calib Date: 16-Apr-2018 17:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416021.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: fergusond Date: 14-Oct-2018 11:26:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.001	5.997	0.004	96	141043	8.00	
* 2 Naphthalene-d8	136	7.214	7.204	0.010	99	515132	8.00	
* 3 Acenaphthene-d10	164	8.827	8.817	0.010	95	259799	8.00	
* 4 Phenanthrene-d10	188	10.190	10.179	0.011	96	501364	8.00	
* 5 Chrysene-d12	240	13.529	13.508	0.021	96	632030	8.00	
* 6 Perylene-d12	264	16.365	16.344	0.021	99	611440	8.00	
$ 9 Nitrobenzene-d5	82	6.530	6.522	0.010	92	183950	7.79	
$ 10 2-Fluorobiphenyl	172	8.197	8.194	0.010	100	433330	8.06	
$ 12 Terphenyl-d14	244	11.878	11.868	0.021	99	489016	7.23	
58 Naphthalene	128	7.230	7.222	0.010	95	36629	0.5249	
85 Acenaphthylene	152	8.699	8.688	0.010	95	15886	0.2743	
88 Acenaphthene	153	8.854	8.852	0.010	94	22696	0.5767	
103 Fluorene	166	9.330	9.321	0.016	94	23174	0.4872	
121 Phenanthrene	178	10.216	10.211	0.015	97	379875	5.69	
122 Anthracene	178	10.259	10.256	0.015	96	120283	1.80	
131 Fluoranthene	202	11.440	11.412	0.027	96	436269	5.37	
133 Pyrene	202	11.718	11.708	0.021	98	411899	4.37	
146 Benzo[a]anthracene	228	13.512	13.518	0.026	97	224821	2.38	
147 Chrysene	228	13.577	13.579	0.027	96	337203	3.81	
152 Benzo[b]fluoranthene	252	15.585	15.593	0.026	96	303862	2.77	
153 Benzo[k]fluoranthene	252	15.628	15.628	0.016	96	92181	0.9319	Ma
154 Benzo[a]pyrene	252	16.248	16.248	0.027	74	192240	2.10	a
157 Indeno[1,2,3-cd]pyrene	276	18.518	18.528	0.037	96	141451	1.35	
158 Dibenz(a,h)anthracene	278	18.545	18.545	0.010	85	29490	0.3319	M
159 Benzo[g,h,i]perylene	276	19.063	19.083	0.032	96	121076	1.40	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

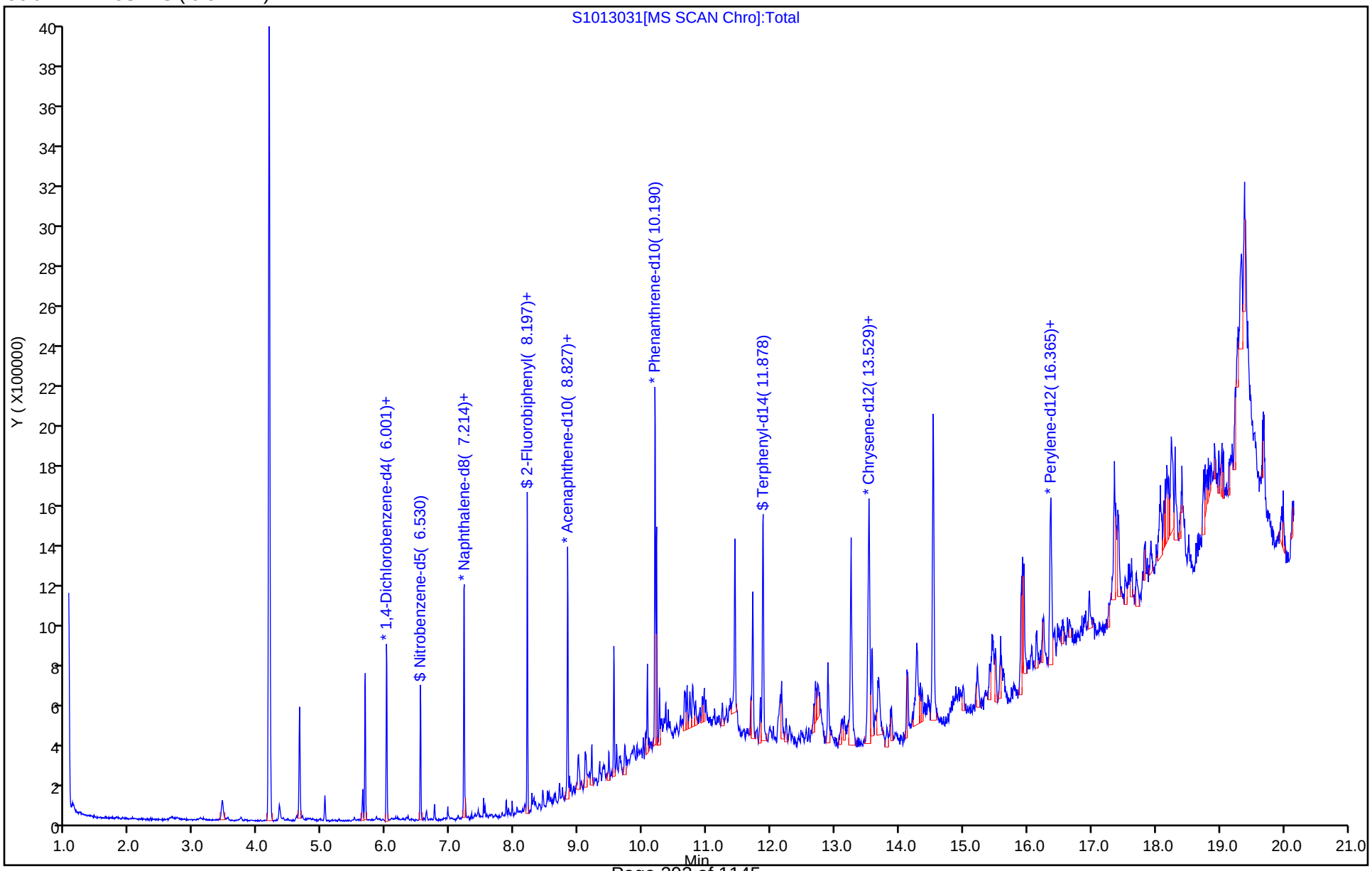
SVTAPITINTRNi_00018	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 14-Oct-2018 11:26:37 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013031.D				
Injection Date:	14-Oct-2018 00:59:30	Instrument ID:	CH71	Operator ID:	001562
Lims ID:	180-82446-C-2-C	Lab Sample ID:	180-82446-2	Worklist Smp#:	31
Client ID:	POS-SED-S12-S2 (5-10')				
Injection Vol:	2.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	29
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)

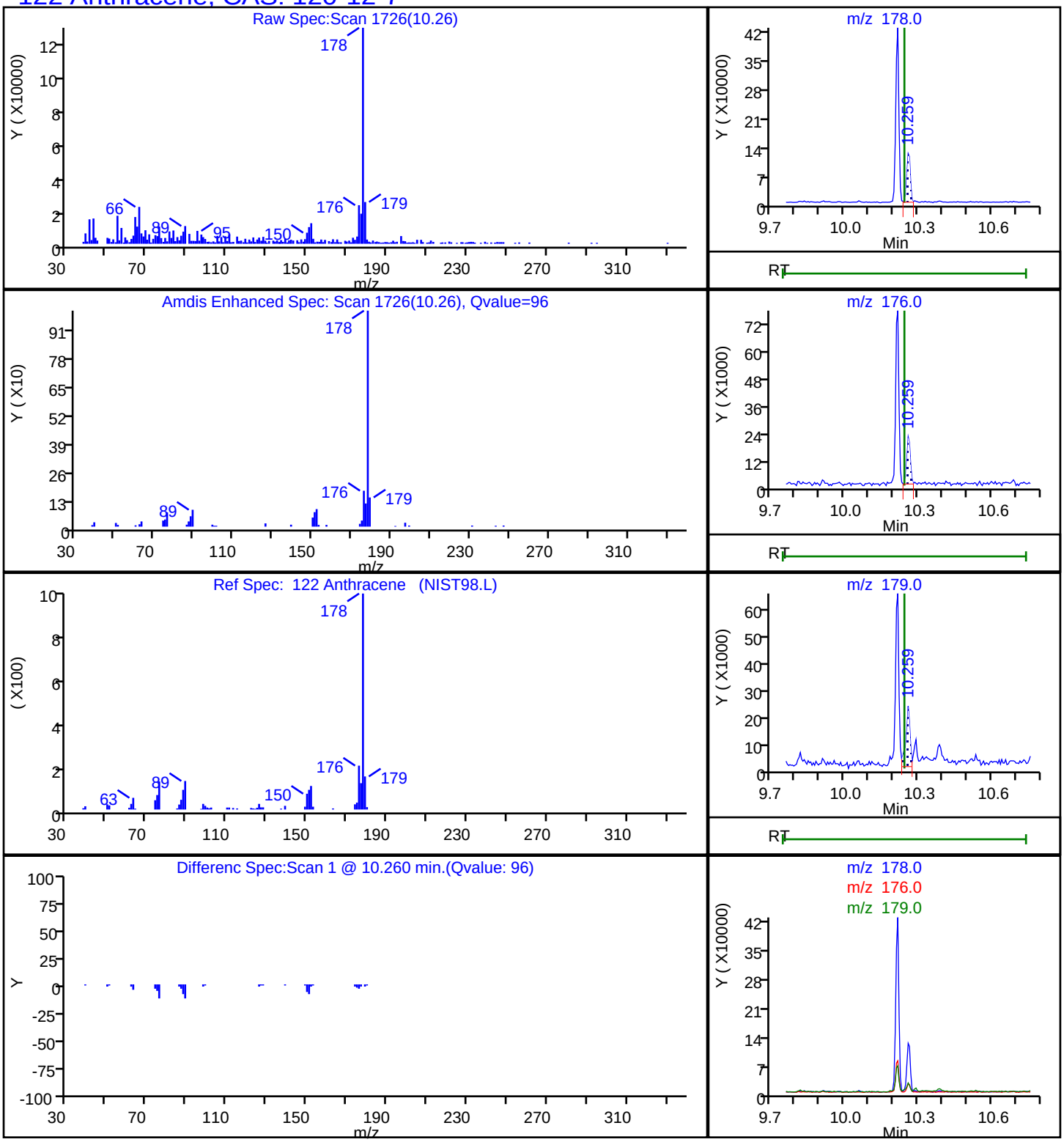


Report Date: 14-Oct-2018 11:26:37 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013031.D				
Injection Date:	14-Oct-2018 00:59:30	Instrument ID:	CH71		
Lims ID:	180-82446-C-2-C	Lab Sample ID:	180-82446-2		
Client ID:	POS-SED-S12-S2 (5-10')				
Operator ID:	001562	ALS Bottle#:	29	Worklist Smp#:	31
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

122 Anthracene, CAS: 120-12-7

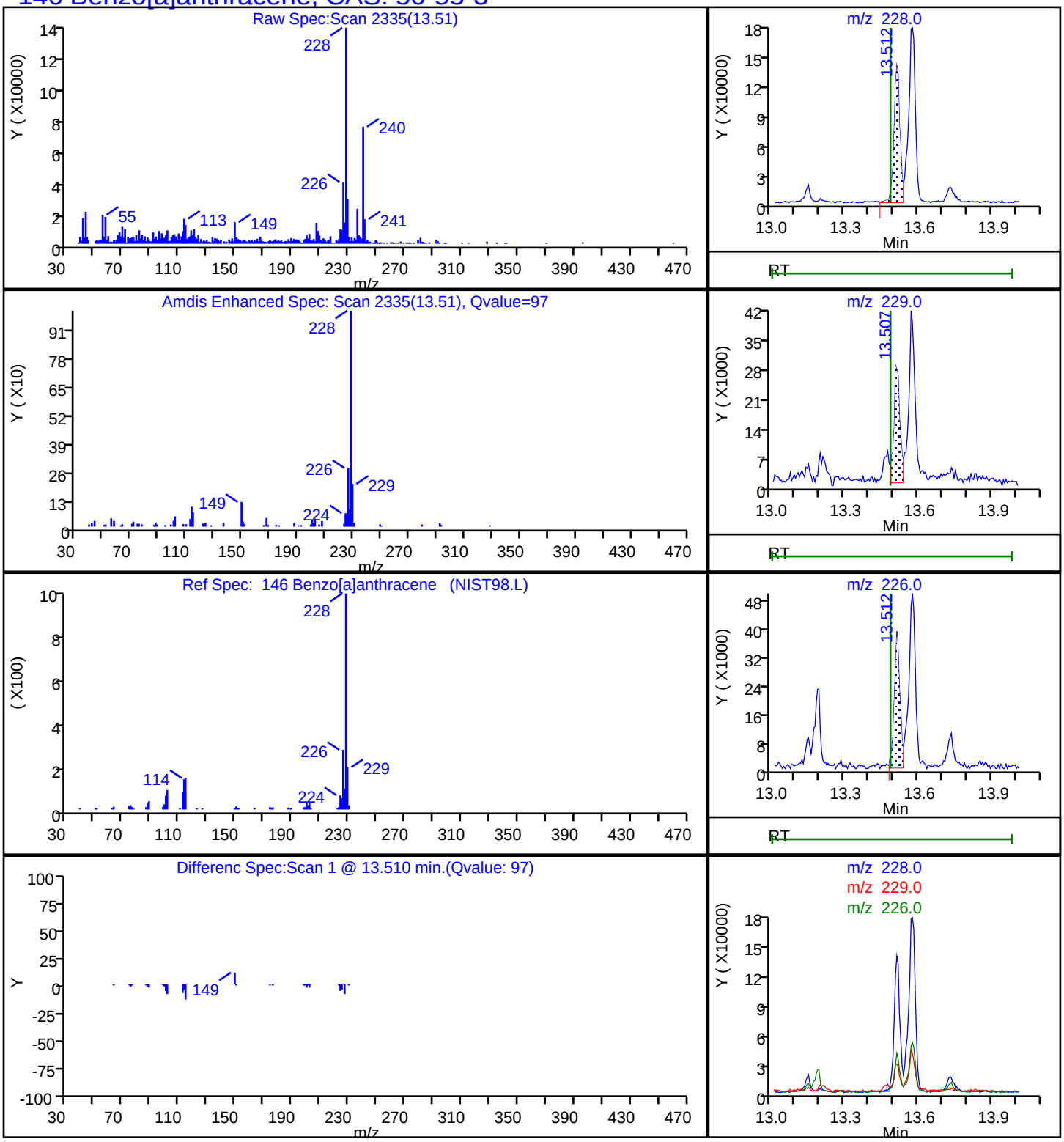


Report Date: 14-Oct-2018 11:26:37 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013031.D				
Injection Date:	14-Oct-2018 00:59:30	Instrument ID:	CH71		
Lims ID:	180-82446-C-2-C	Lab Sample ID:	180-82446-2		
Client ID:	POS-SED-S12-S2 (5-10')				
Operator ID:	001562	ALS Bottle#:	29	Worklist Smp#:	31
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

146 Benzo[a]anthracene, CAS: 56-55-3

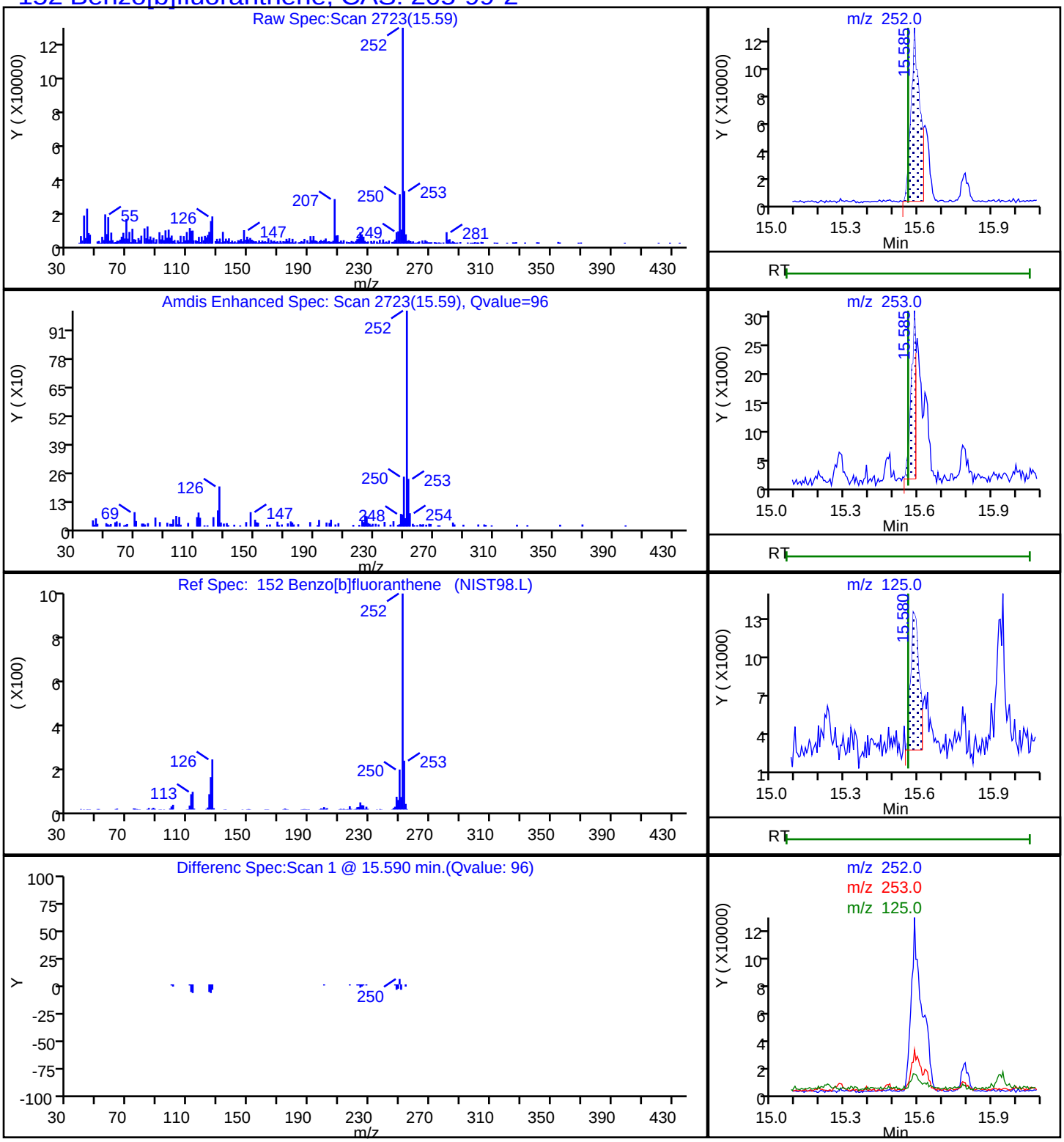


Report Date: 14-Oct-2018 11:26:37 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013031.D				
Injection Date:	14-Oct-2018 00:59:30	Instrument ID:	CH71		
Lims ID:	180-82446-C-2-C	Lab Sample ID:	180-82446-2		
Client ID:	POS-SED-S12-S2 (5-10')				
Operator ID:	001562	ALS Bottle#:	29	Worklist Smp#:	31
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

152 Benzo[b]fluoranthene, CAS: 205-99-2

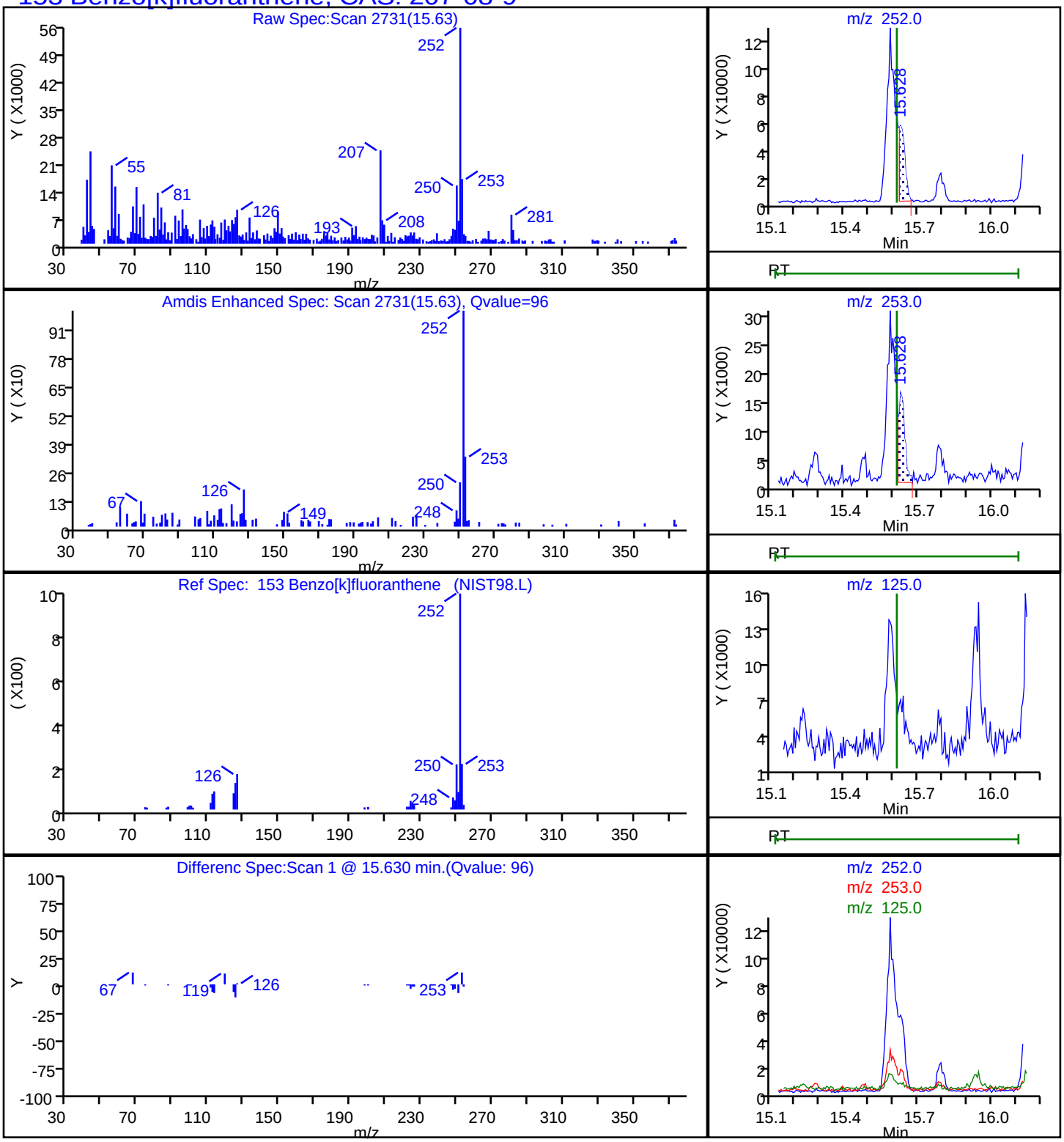


Report Date: 14-Oct-2018 11:26:37 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013031.D				
Injection Date:	14-Oct-2018 00:59:30	Instrument ID:	CH71		
Lims ID:	180-82446-C-2-C	Lab Sample ID:	180-82446-2		
Client ID:	POS-SED-S12-S2 (5-10')				
Operator ID:	001562	ALS Bottle#:	29	Worklist Smp#:	31
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

153 Benzo[k]fluoranthene, CAS: 207-08-9

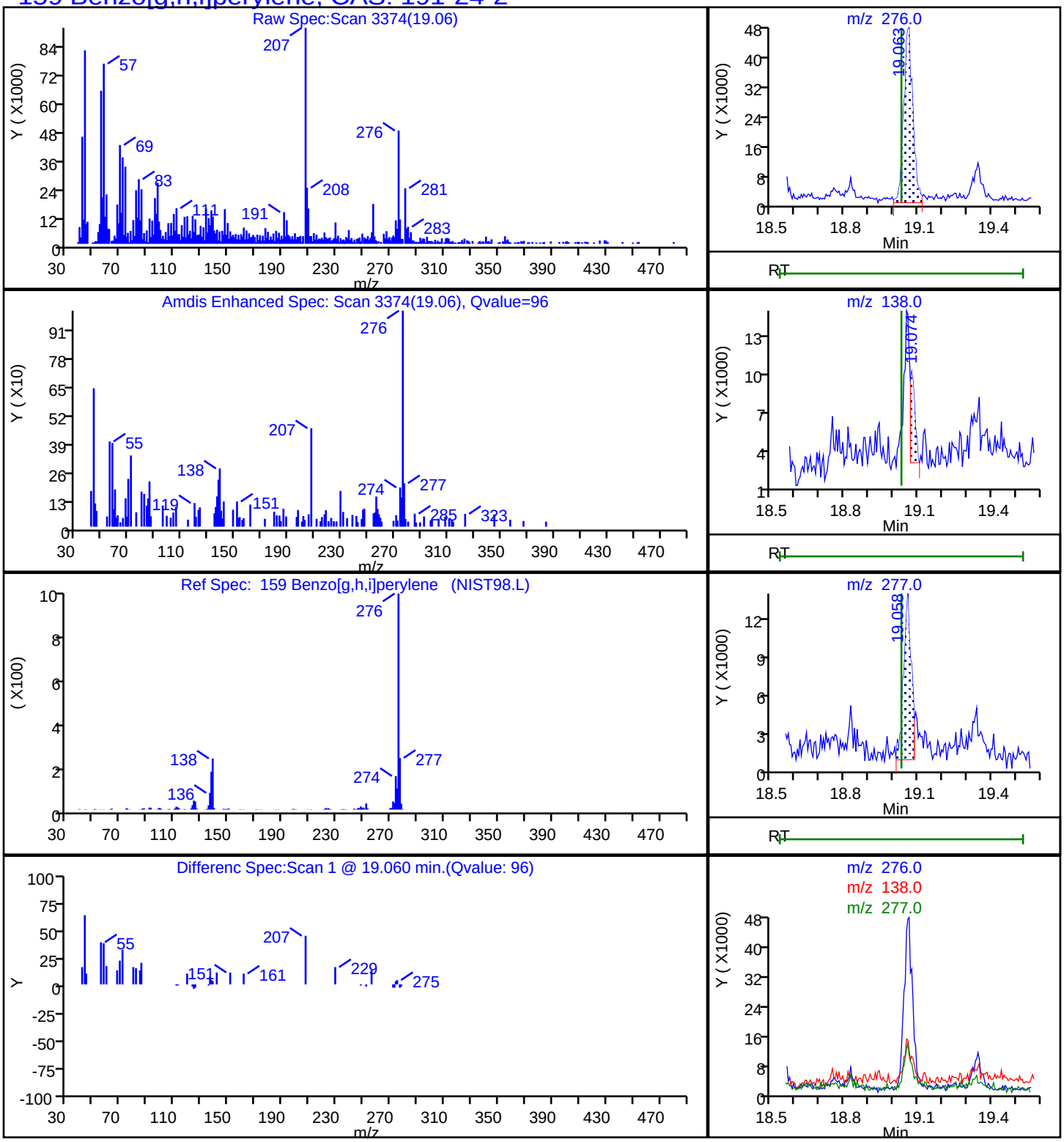


Report Date: 14-Oct-2018 11:26:38 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013031.D				
Injection Date:	14-Oct-2018 00:59:30	Instrument ID:	CH71		
Lims ID:	180-82446-C-2-C	Lab Sample ID:	180-82446-2		
Client ID:	POS-SED-S12-S2 (5-10')				
Operator ID:	001562	ALS Bottle#:	29	Worklist Smp#:	31
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

159 Benzo[g,h,i]perylene, CAS: 191-24-2

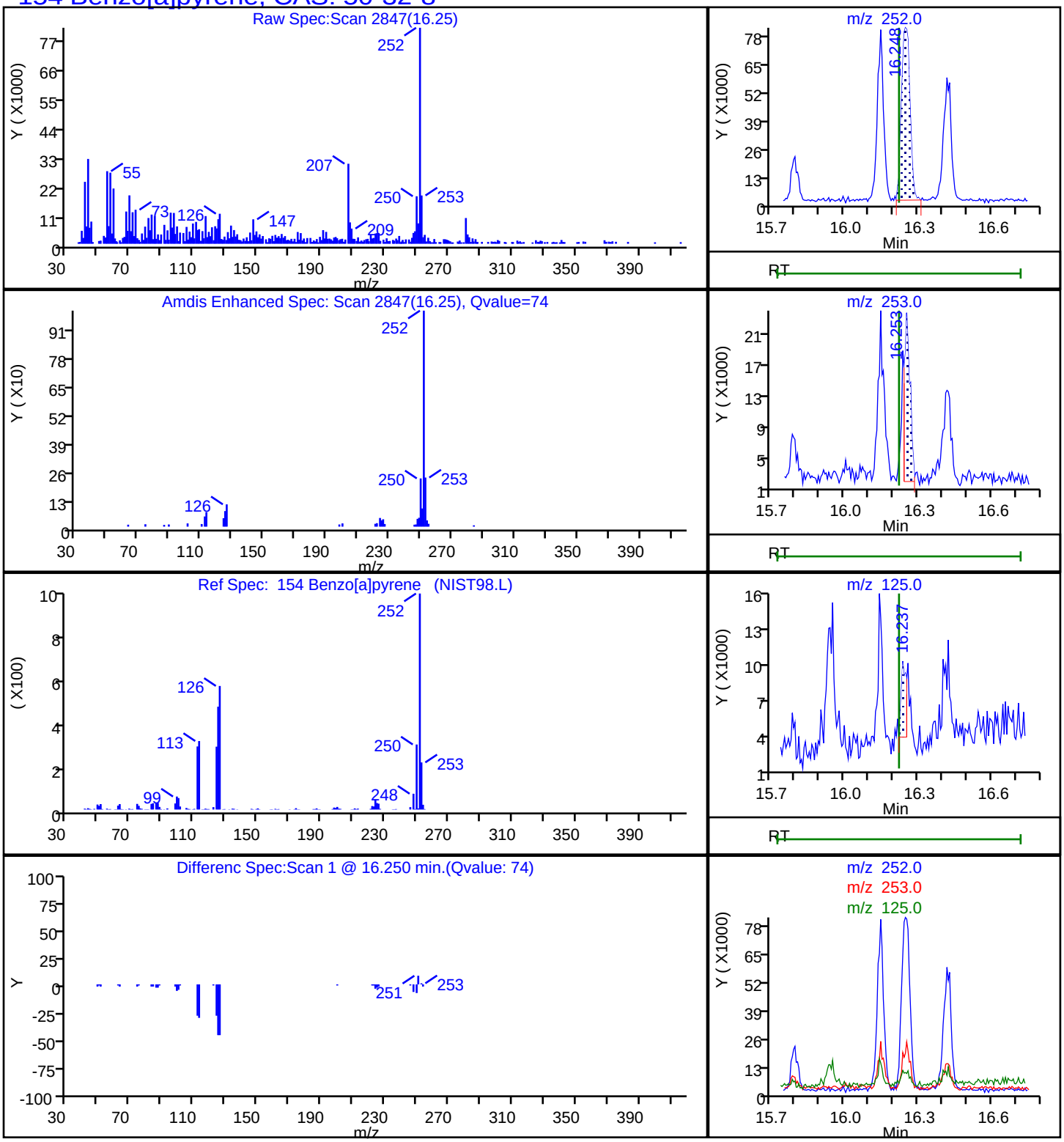


Report Date: 14-Oct-2018 11:26:37 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013031.D				
Injection Date:	14-Oct-2018 00:59:30	Instrument ID:	CH71		
Lims ID:	180-82446-C-2-C	Lab Sample ID:	180-82446-2		
Client ID:	POS-SED-S12-S2 (5-10')				
Operator ID:	001562	ALS Bottle#:	29	Worklist Smp#:	31
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

154 Benzo[a]pyrene, CAS: 50-32-8

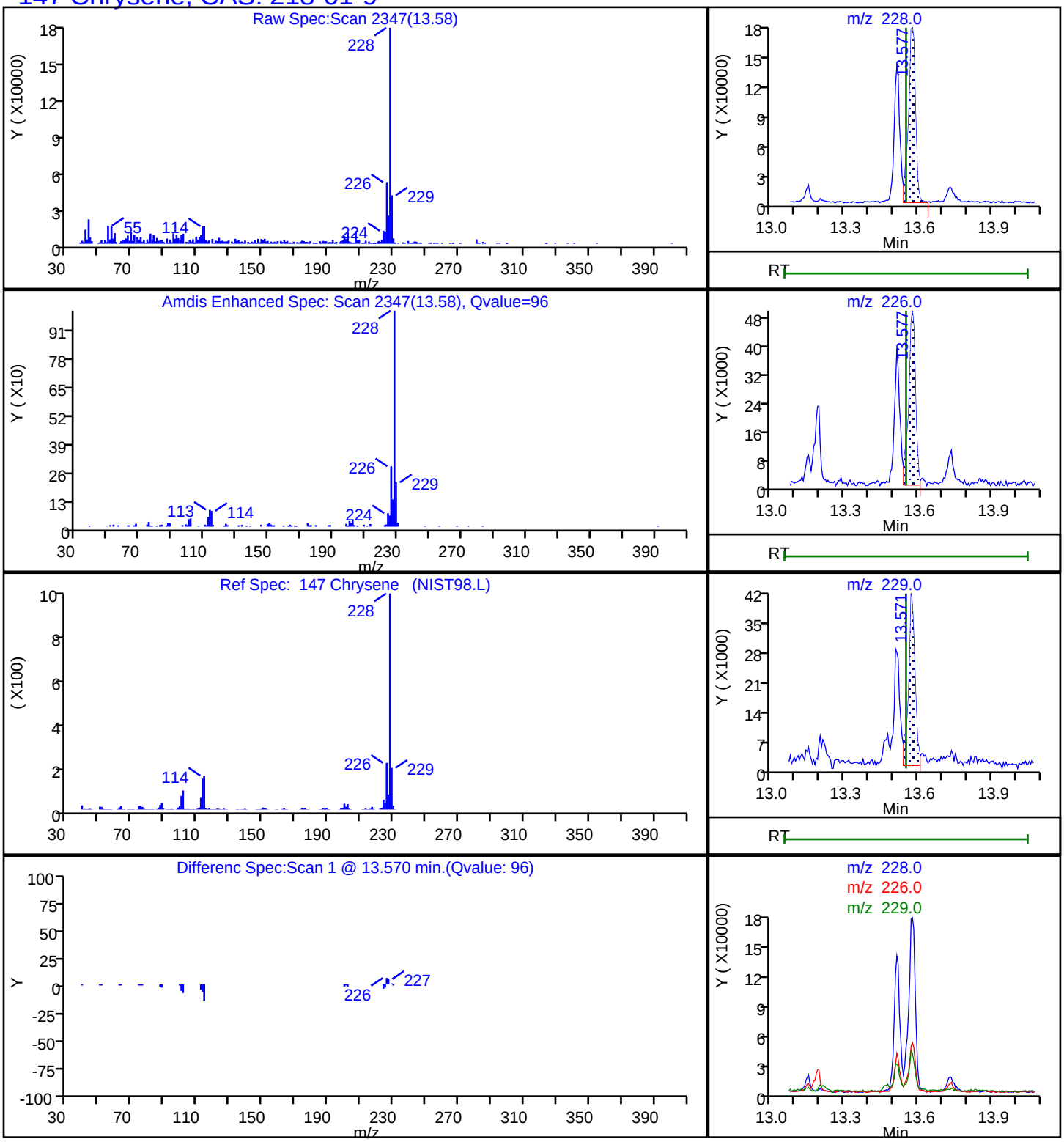


Report Date: 14-Oct-2018 11:26:37 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013031.D				
Injection Date:	14-Oct-2018 00:59:30	Instrument ID:	CH71		
Lims ID:	180-82446-C-2-C	Lab Sample ID:	180-82446-2		
Client ID:	POS-SED-S12-S2 (5-10')				
Operator ID:	001562	ALS Bottle#:	29	Worklist Smp#:	31
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

147 Chrysene, CAS: 218-01-9

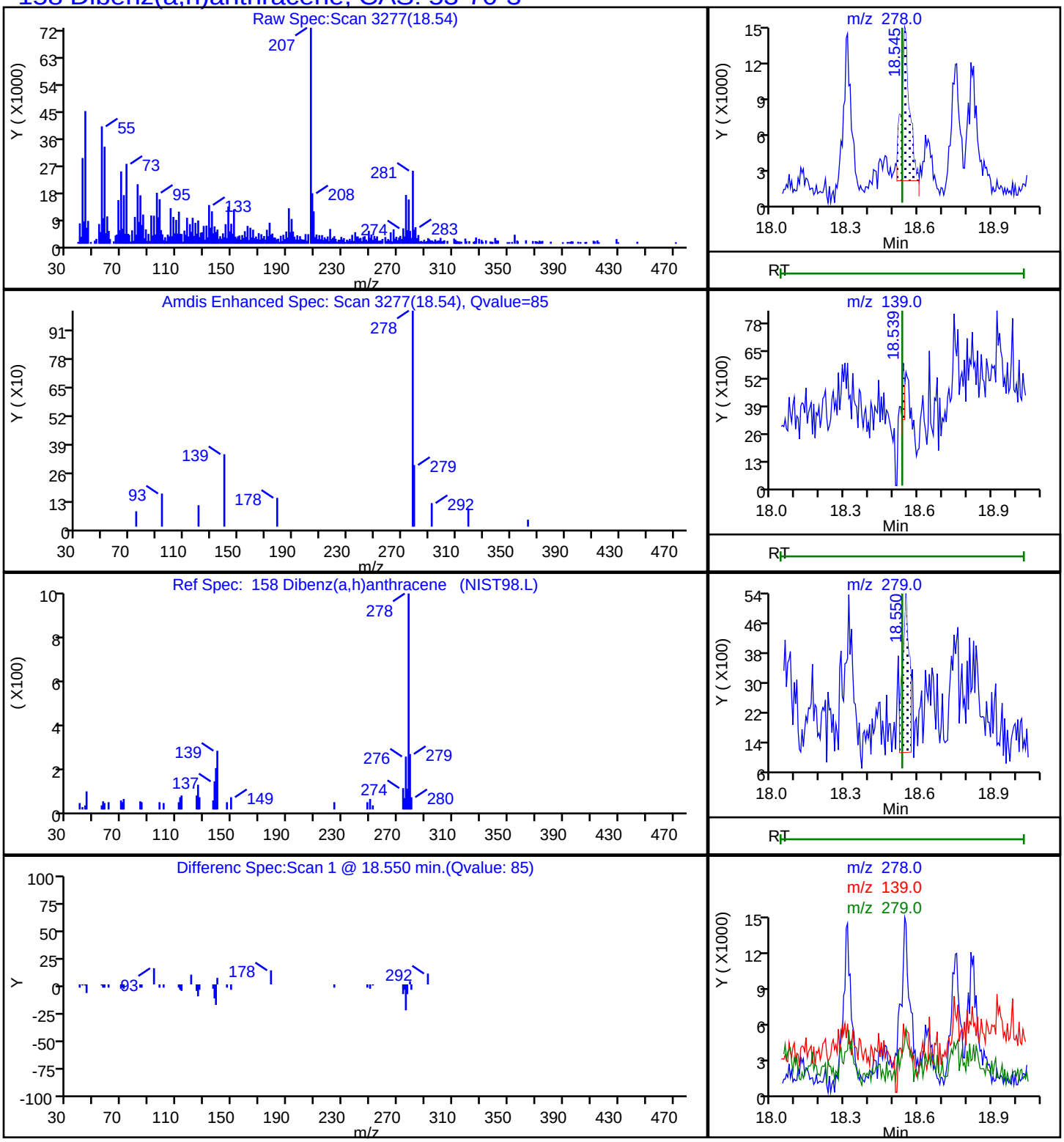


Report Date: 14-Oct-2018 11:26:38 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013031.D				
Injection Date:	14-Oct-2018 00:59:30	Instrument ID:	CH71		
Lims ID:	180-82446-C-2-C	Lab Sample ID:	180-82446-2		
Client ID:	POS-SED-S12-S2 (5-10')				
Operator ID:	001562	ALS Bottle#:	29	Worklist Smp#:	31
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

158 Dibenz(a,h)anthracene, CAS: 53-70-3

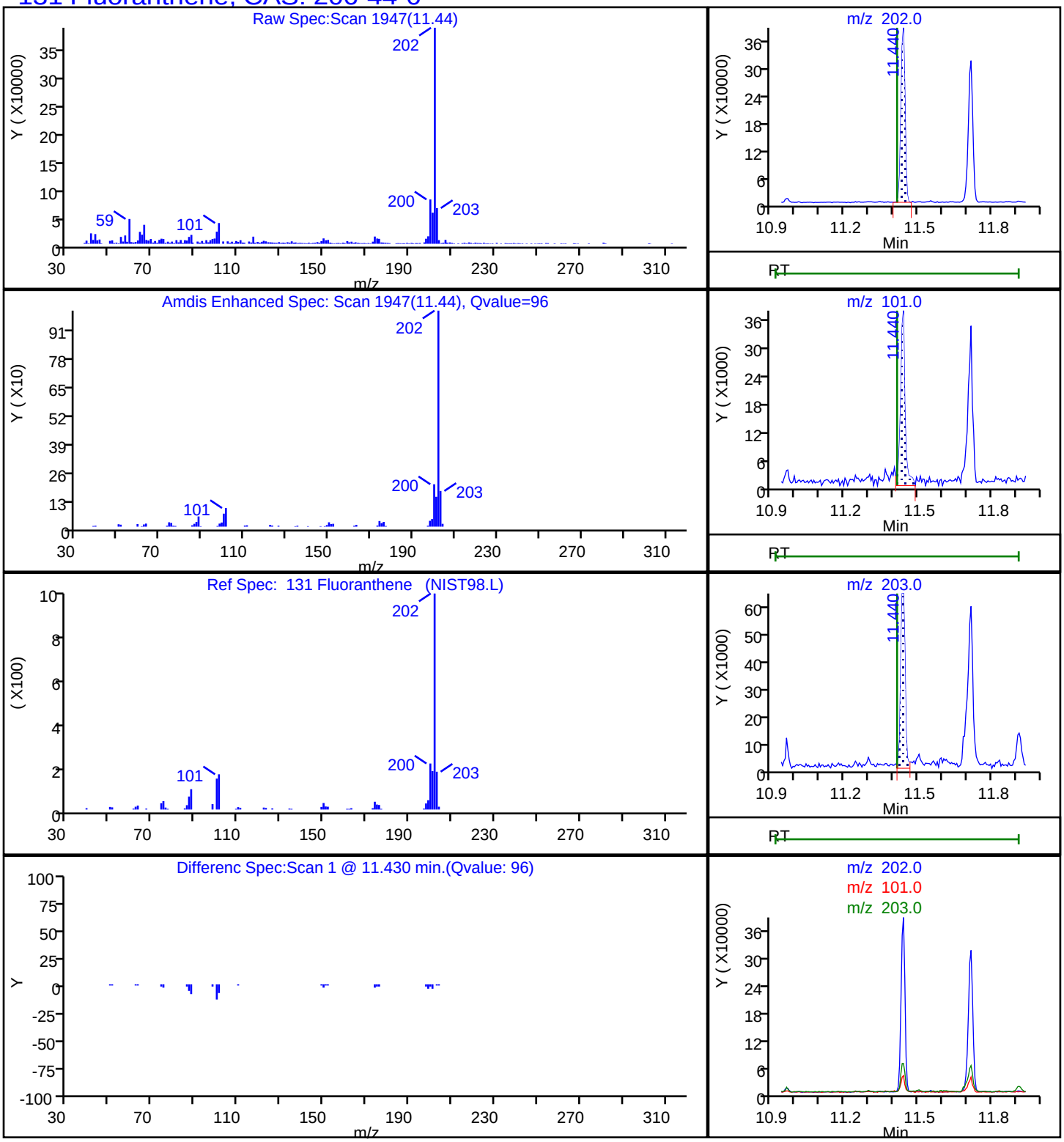


Report Date: 14-Oct-2018 11:26:37 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013031.D				
Injection Date:	14-Oct-2018 00:59:30	Instrument ID:	CH71		
Lims ID:	180-82446-C-2-C	Lab Sample ID:	180-82446-2		
Client ID:	POS-SED-S12-S2 (5-10')				
Operator ID:	001562	ALS Bottle#:	29	Worklist Smp#:	31
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

131 Fluoranthene, CAS: 206-44-0

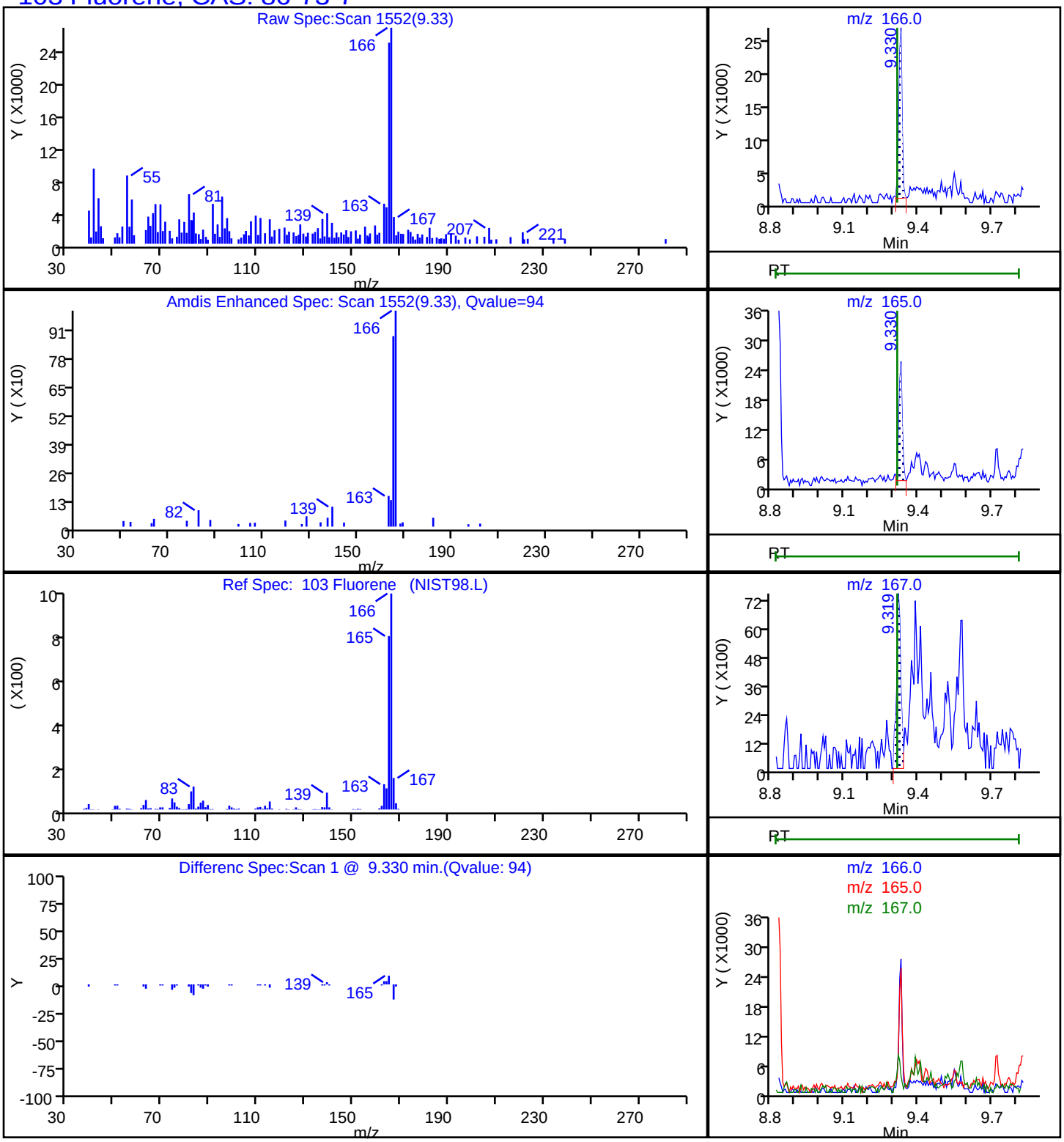


Report Date: 14-Oct-2018 11:26:37 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013031.D				
Injection Date:	14-Oct-2018 00:59:30	Instrument ID:	CH71		
Lims ID:	180-82446-C-2-C	Lab Sample ID:	180-82446-2		
Client ID:	POS-SED-S12-S2 (5-10')				
Operator ID:	001562	ALS Bottle#:	29	Worklist Smp#:	31
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

103 Fluorene, CAS: 86-73-7

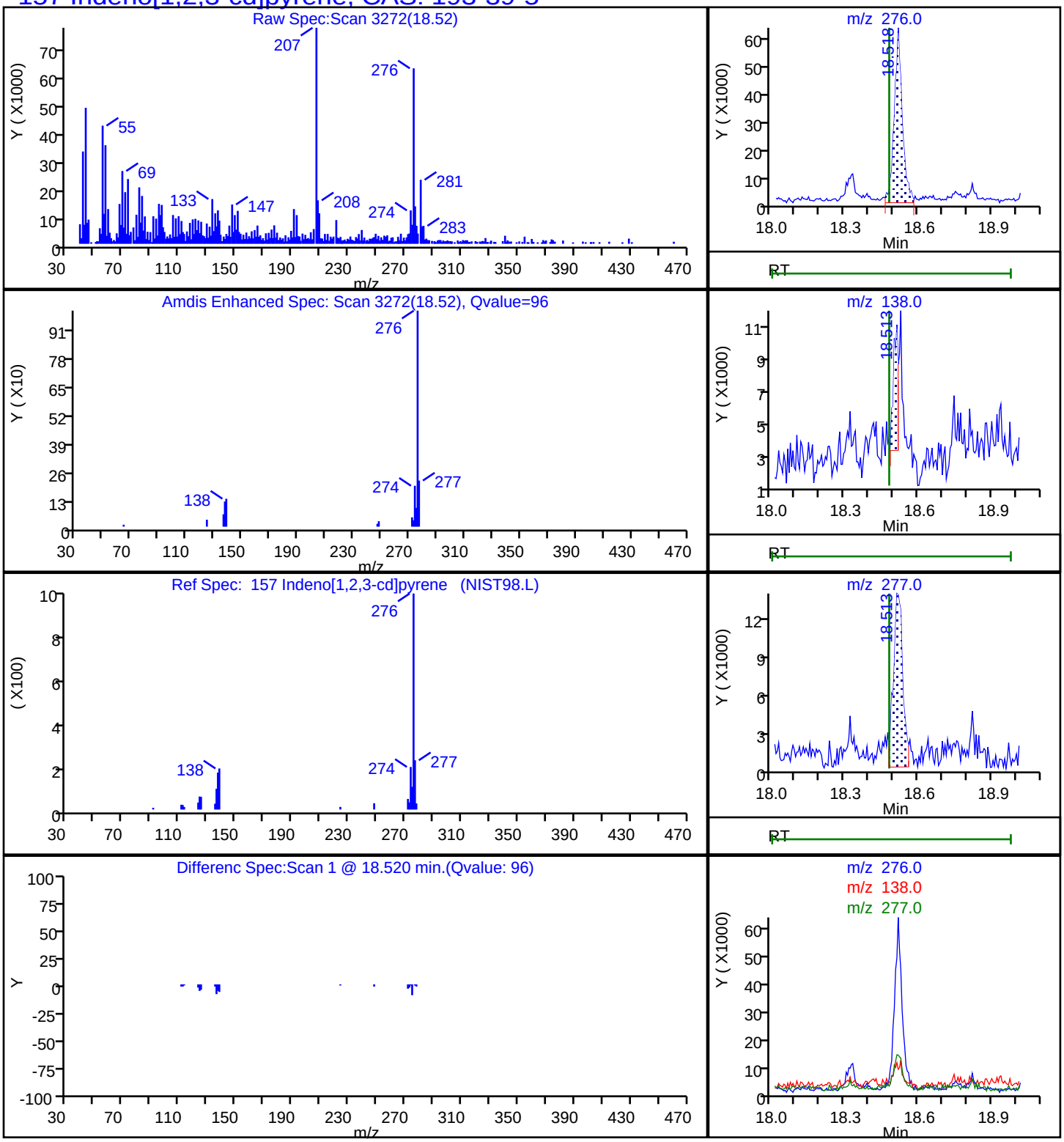


Report Date: 14-Oct-2018 11:26:38 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013031.D				
Injection Date:	14-Oct-2018 00:59:30	Instrument ID:	CH71		
Lims ID:	180-82446-C-2-C	Lab Sample ID:	180-82446-2		
Client ID:	POS-SED-S12-S2 (5-10')				
Operator ID:	001562	ALS Bottle#:	29	Worklist Smp#:	31
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

157 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

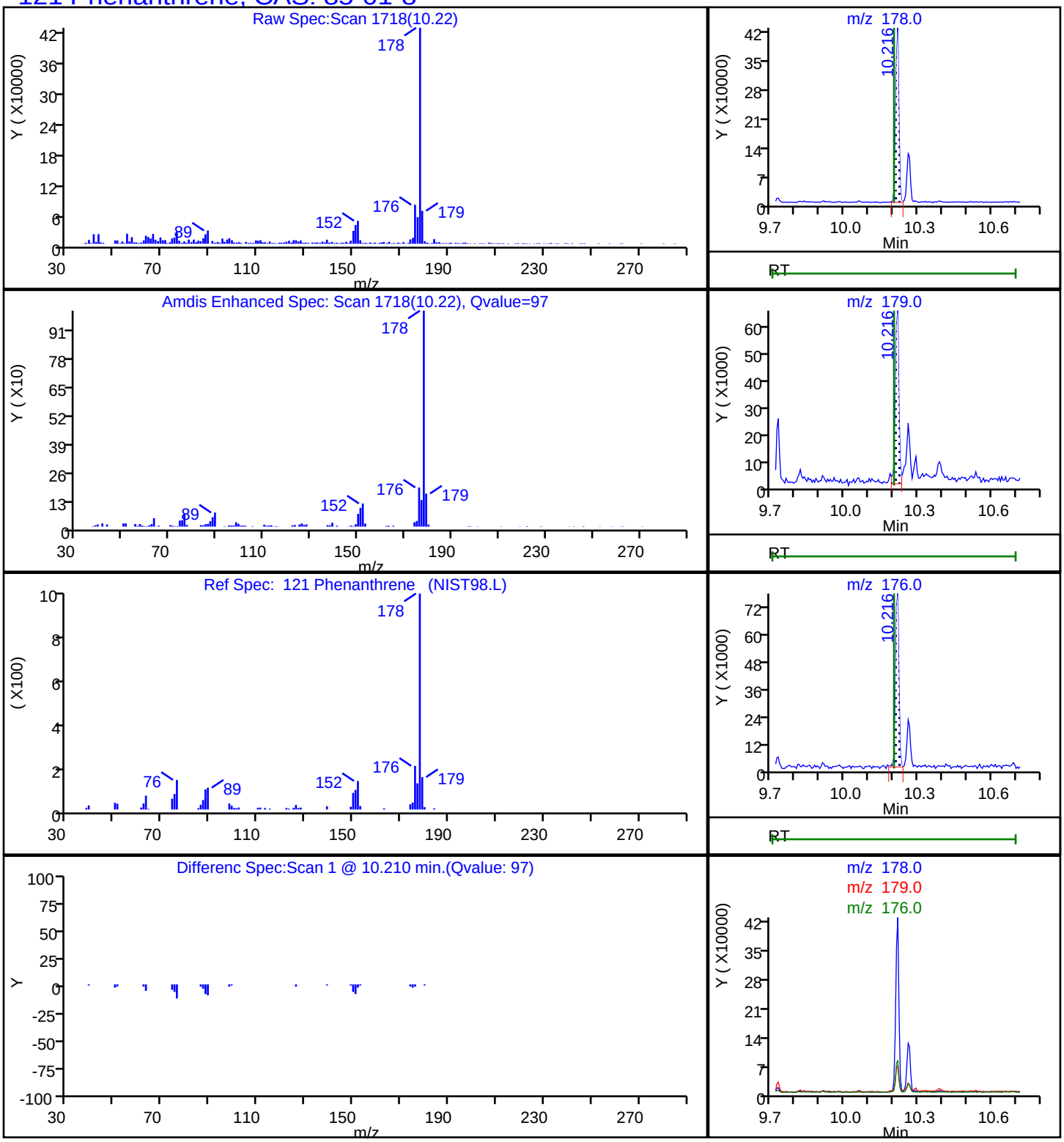


Report Date: 14-Oct-2018 11:26:37 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013031.D				
Injection Date:	14-Oct-2018 00:59:30	Instrument ID:	CH71		
Lims ID:	180-82446-C-2-C	Lab Sample ID:	180-82446-2		
Client ID:	POS-SED-S12-S2 (5-10')				
Operator ID:	001562	ALS Bottle#:	29	Worklist Smp#:	31
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

121 Phenanthrene, CAS: 85-01-8

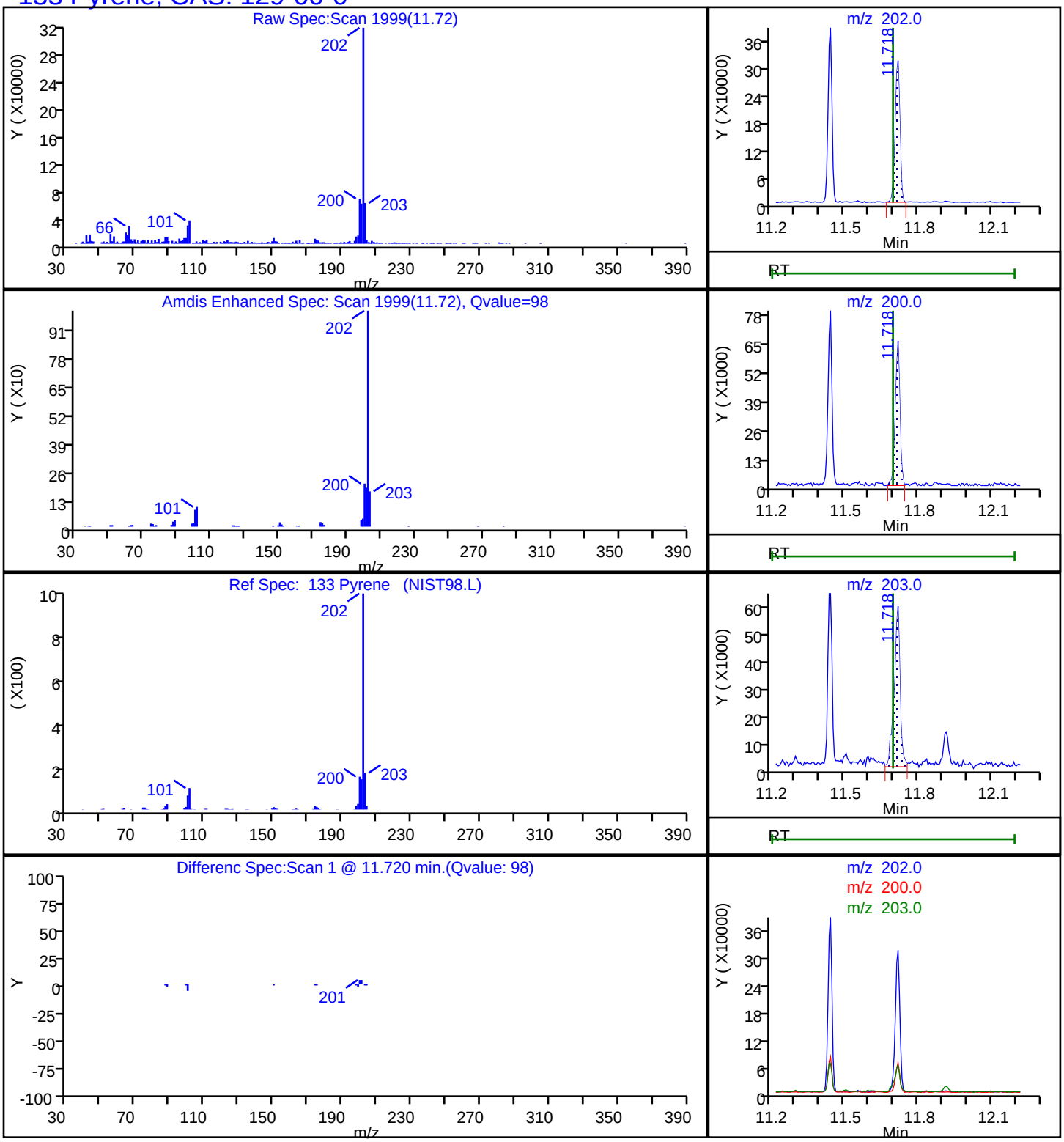


Report Date: 14-Oct-2018 11:26:37 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013031.D				
Injection Date:	14-Oct-2018 00:59:30	Instrument ID:	CH71		
Lims ID:	180-82446-C-2-C	Lab Sample ID:	180-82446-2		
Client ID:	POS-SED-S12-S2 (5-10')				
Operator ID:	001562	ALS Bottle#:	29	Worklist Smp#:	31
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

133 Pyrene, CAS: 129-00-0

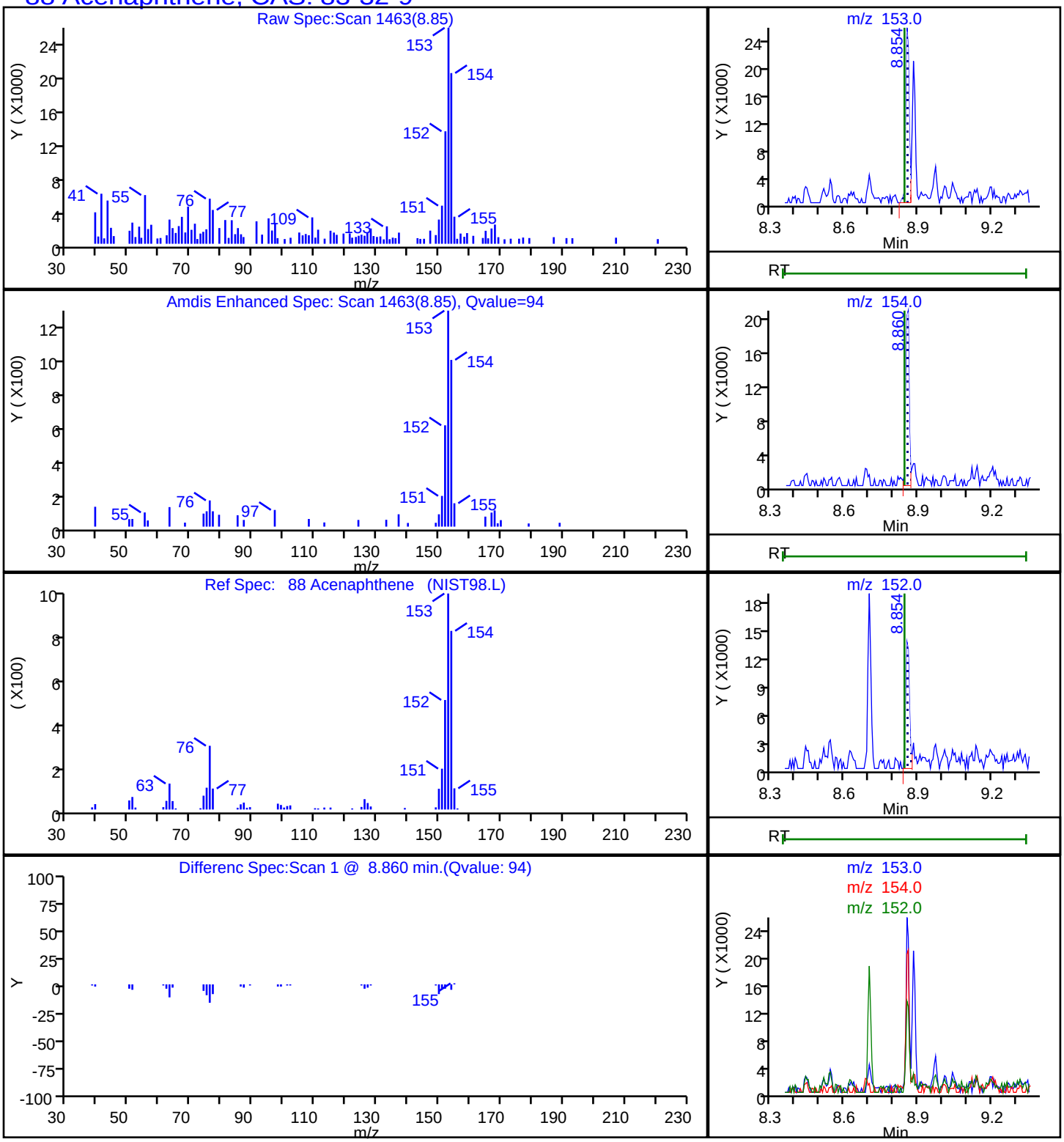


Report Date: 14-Oct-2018 11:26:37 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013031.D				
Injection Date:	14-Oct-2018 00:59:30	Instrument ID:	CH71		
Lims ID:	180-82446-C-2-C	Lab Sample ID:	180-82446-2		
Client ID:	POS-SED-S12-S2 (5-10')				
Operator ID:	001562	ALS Bottle#:	29	Worklist Smp#:	31
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

88 Acenaphthene, CAS: 83-32-9

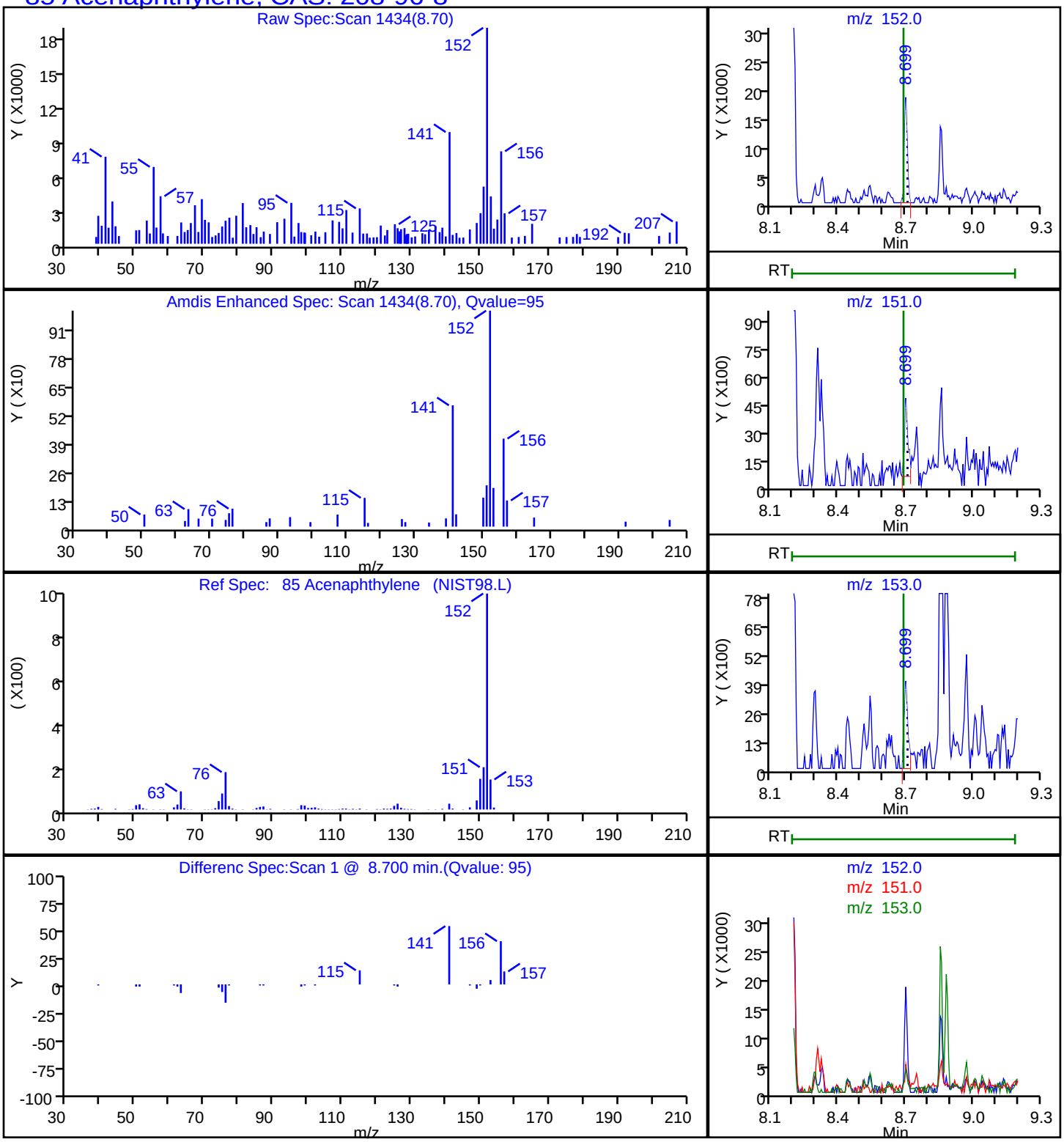


Report Date: 14-Oct-2018 11:26:37 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013031.D				
Injection Date:	14-Oct-2018 00:59:30	Instrument ID:	CH71		
Lims ID:	180-82446-C-2-C	Lab Sample ID:	180-82446-2		
Client ID:	POS-SED-S12-S2 (5-10')				
Operator ID:	001562	ALS Bottle#:	29	Worklist Smp#:	31
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

85 Acenaphthylene, CAS: 208-96-8

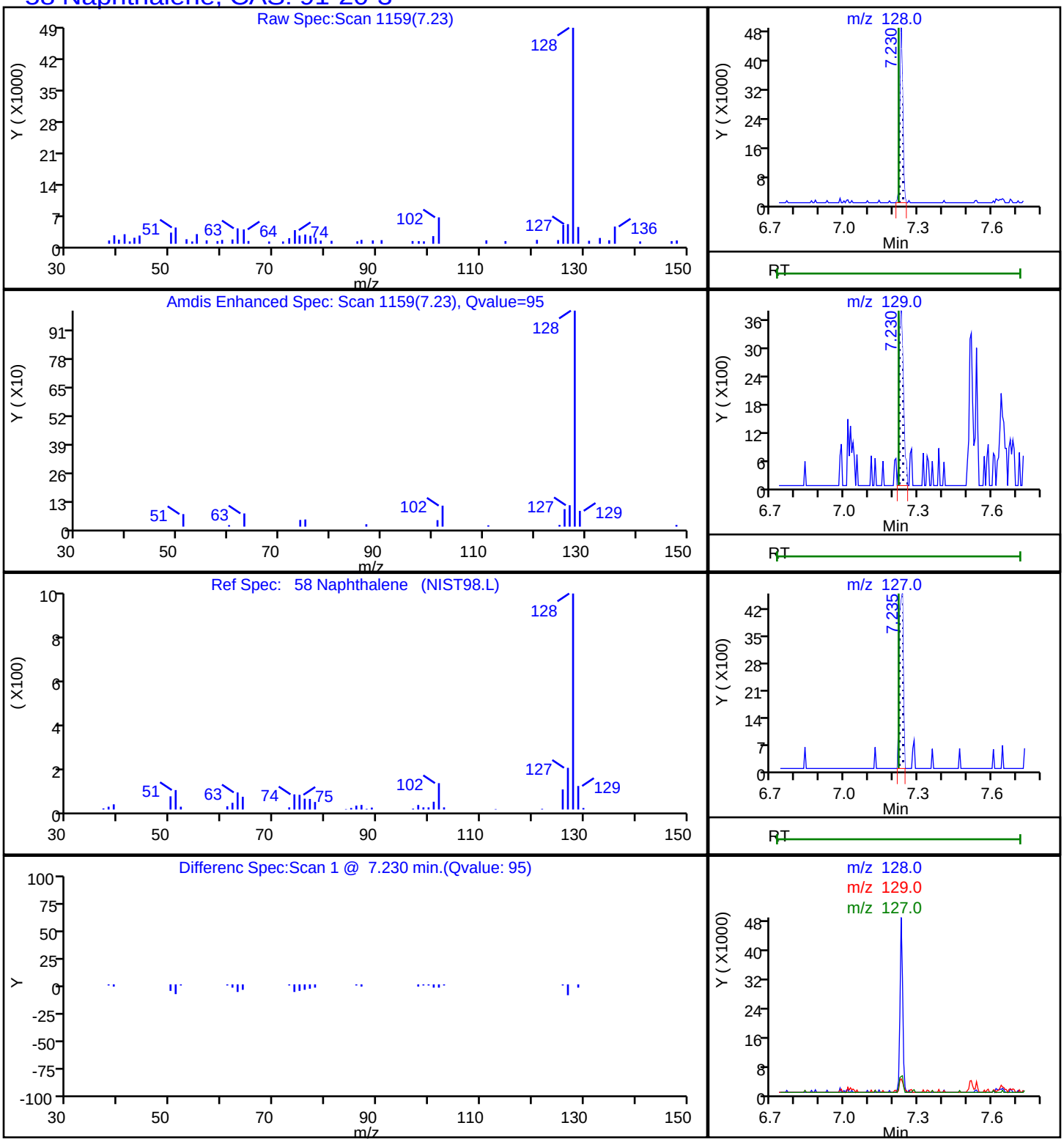


Report Date: 14-Oct-2018 11:26:37 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013031.D				
Injection Date:	14-Oct-2018 00:59:30	Instrument ID:	CH71		
Lims ID:	180-82446-C-2-C	Lab Sample ID:	180-82446-2		
Client ID:	POS-SED-S12-S2 (5-10')				
Operator ID:	001562	ALS Bottle#:	29	Worklist Smp#:	31
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

58 Naphthalene, CAS: 91-20-3



Manual Integration/User Assign Peak Report

TestAmerica Pittsburgh

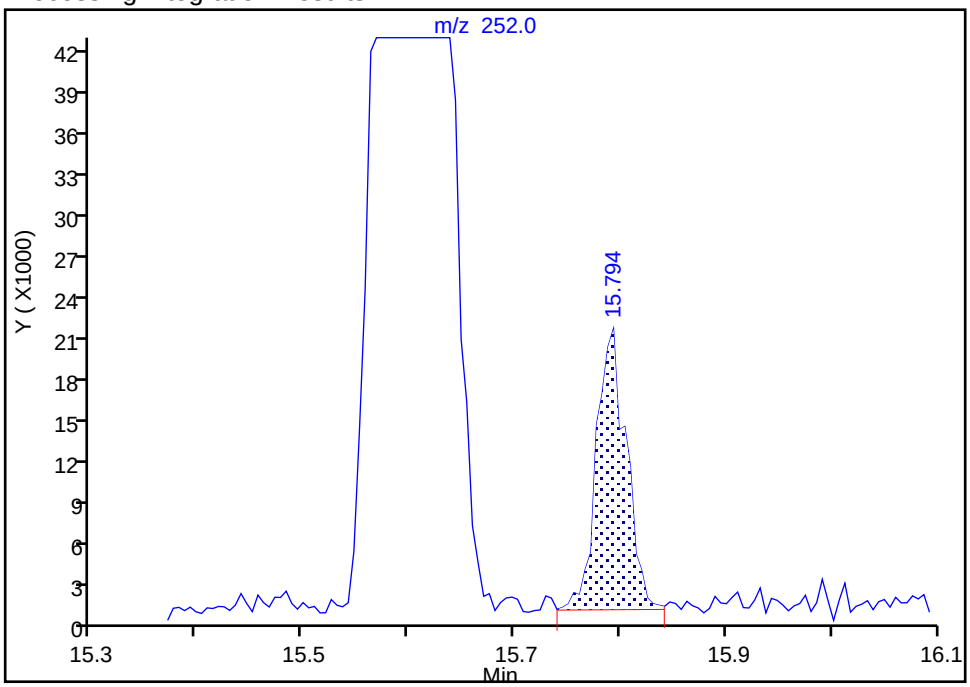
Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013031.D				
Injection Date:	14-Oct-2018 00:59:30	Instrument ID:	CH71		
Lims ID:	180-82446-C-2-C	Lab Sample ID:	180-82446-2		
Client ID:	POS-SED-S12-S2 (5-10')				
Operator ID:	001562	ALS Bottle#:	29	Worklist Smp#:	31
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

153 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

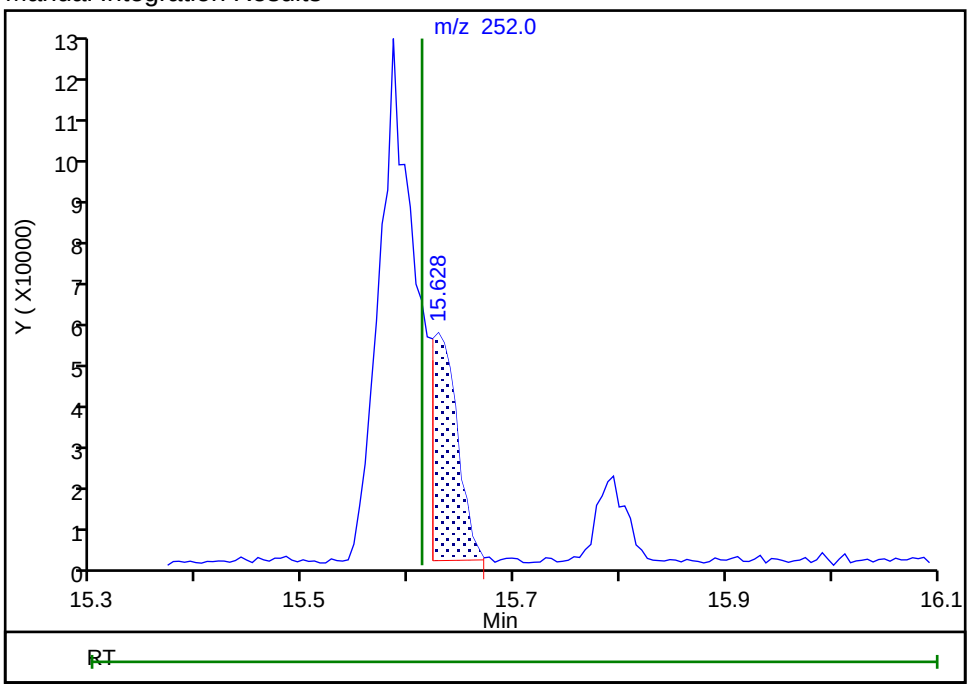
Processing Integration Results

RT: 15.79
Area: 40326
Amount: 0.407655
Amount Units: ng



Manual Integration Results

RT: 15.63
Area: 92181
Amount: 0.931856
Amount Units: ng



Reviewer: fergusond, 14-Oct-2018 11:25:57

Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

TestAmerica Pittsburgh

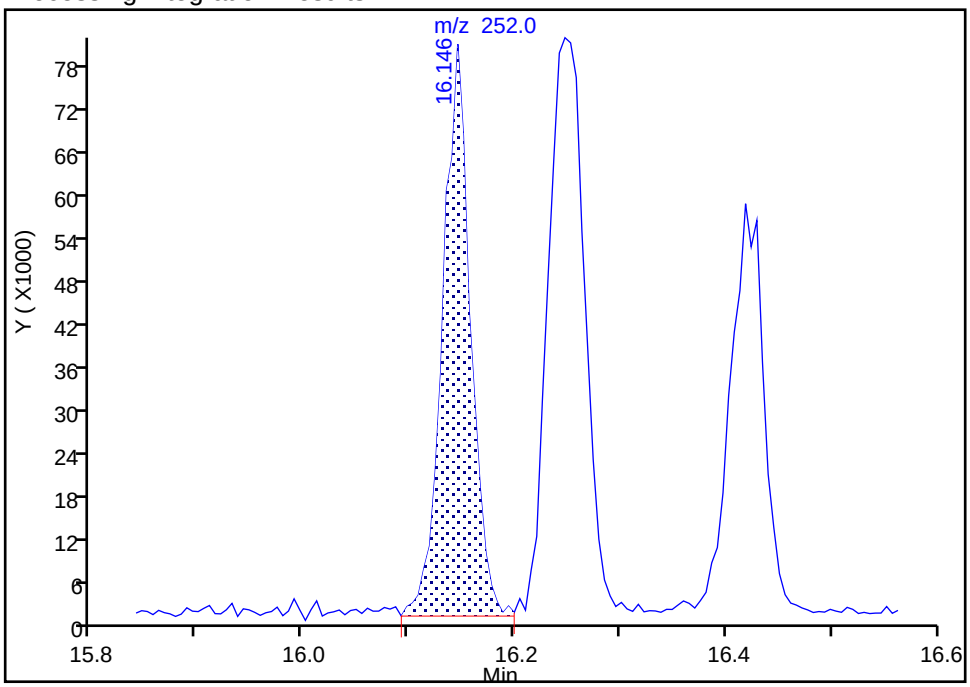
Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013031.D				
Injection Date:	14-Oct-2018 00:59:30	Instrument ID:	CH71		
Lims ID:	180-82446-C-2-C	Lab Sample ID:	180-82446-2		
Client ID:	POS-SED-S12-S2 (5-10')				
Operator ID:	001562	ALS Bottle#:	29	Worklist Smp#:	31
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

154 Benzo[a]pyrene, CAS: 50-32-8

Signal: 1

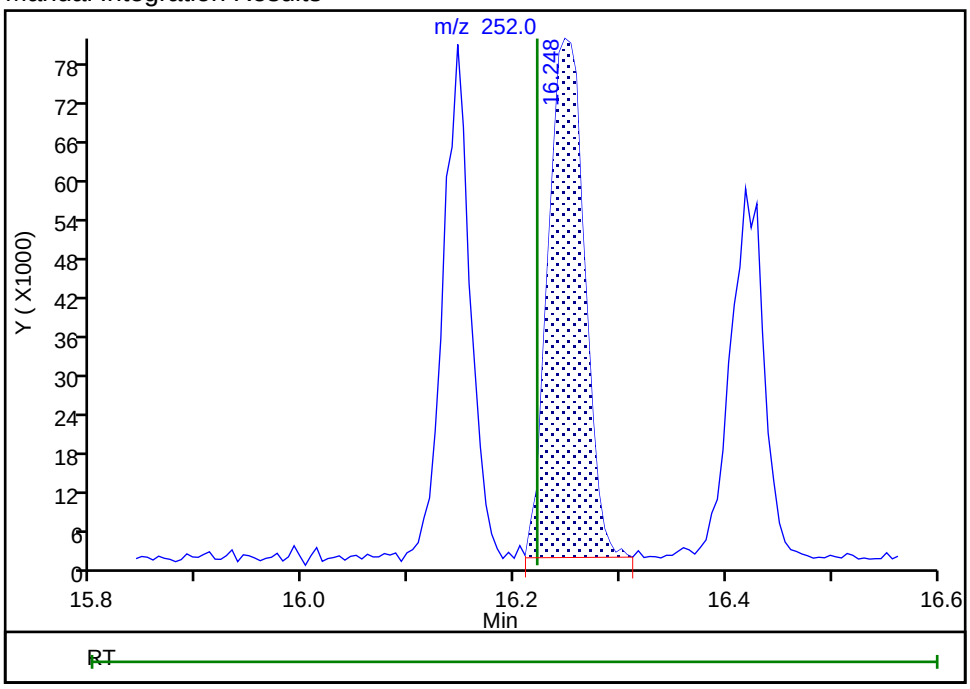
Processing Integration Results

RT: 16.15
Area: 146315
Amount: 1.594635
Amount Units: ng



Manual Integration Results

RT: 16.25
Area: 192240
Amount: 2.095155
Amount Units: ng



Reviewer: fergusond, 14-Oct-2018 11:26:03

Audit Action: Assigned Compound ID Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

TestAmerica Pittsburgh

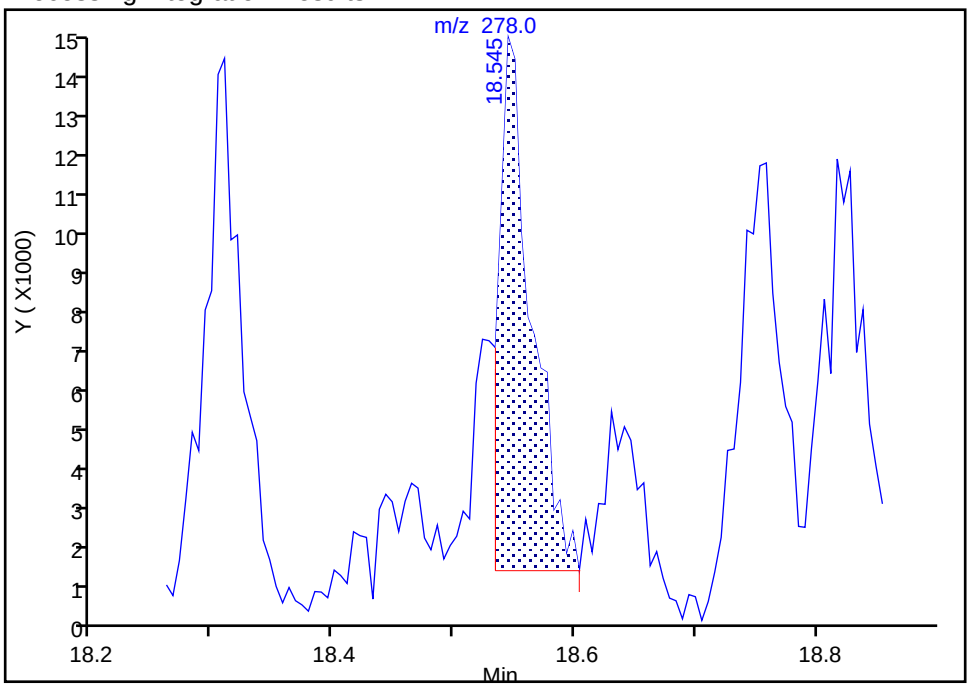
Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013031.D				
Injection Date:	14-Oct-2018 00:59:30	Instrument ID:	CH71		
Lims ID:	180-82446-C-2-C	Lab Sample ID:	180-82446-2		
Client ID:	POS-SED-S12-S2 (5-10')				
Operator ID:	001562	ALS Bottle#:	29	Worklist Smp#:	31
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

158 Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

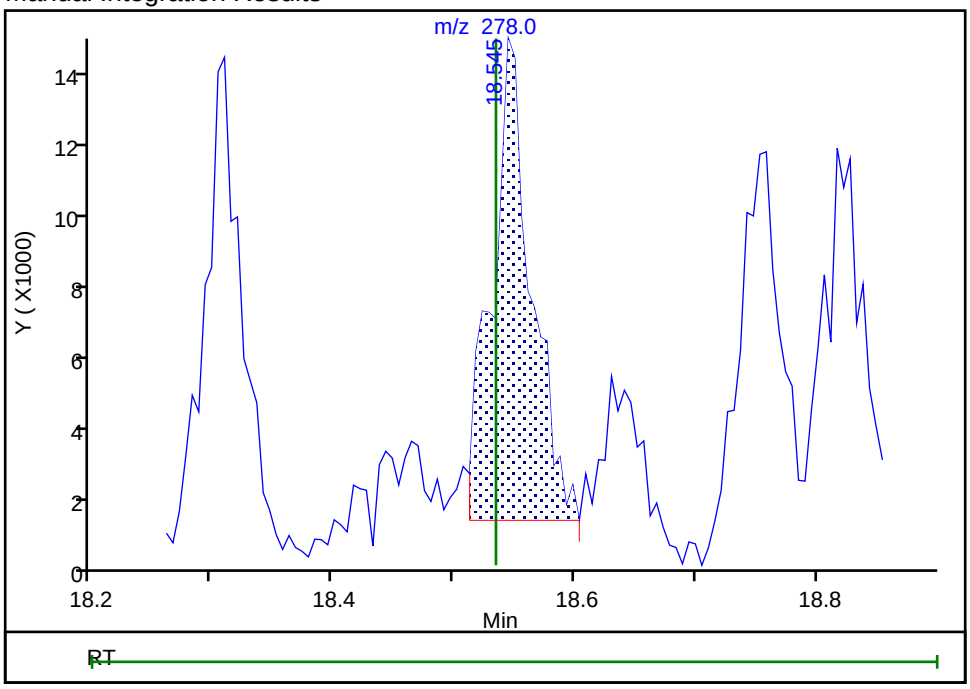
Processing Integration Results

RT: 18.54
Area: 23992
Amount: 0.270021
Amount Units: ng



Manual Integration Results

RT: 18.54
Area: 29490
Amount: 0.331899
Amount Units: ng



Reviewer: fergusond, 14-Oct-2018 11:26:23

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh | Job No.: 180-82446-1

SDG No.:

Client Sample ID: POS-SED-R14-S1 (0-0.5') | Lab Sample ID: 180-82446-3

Matrix: Sediment | Lab File ID: S1014021.D

Analysis Method: EPA 8270D LL | Date Collected: 09/27/2018 13:35

Extract. Method: 3541 | Date Extracted: 10/08/2018 09:24

Sample wt/vol: 30.0(g) | Date Analyzed: 10/14/2018 20:42

Con. Extract Vol.: 0.5(mL) | Dilution Factor: 10

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 28.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 259751 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-12-7	Anthracene	29	J	47	12
56-55-3	Benzo[a]anthracene	86		47	8.8
205-99-2	Benzo[b]fluoranthene	120		47	11
207-08-9	Benzo[k]fluoranthene	48		47	14
191-24-2	Benzo[g,h,i]perylene	80		47	10
50-32-8	Benzo[a]pyrene	95		47	10
218-01-9	Chrysene	93		47	9.1
53-70-3	Dibenz(a,h)anthracene	12	J	47	10
206-44-0	Fluoranthene	160		47	12
86-73-7	Fluorene	10	J	47	9.1
193-39-5	Indeno[1,2,3-cd]pyrene	59		47	9.4
85-01-8	Phenanthrene	70		47	12
129-00-0	Pyrene	210		47	11
83-32-9	Acenaphthene	13	U	47	13
208-96-8	Acenaphthylene	19	J	47	10
91-20-3	Naphthalene	13	J	47	9.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5 (Surr)	54		39-105
321-60-8	2-Fluorobiphenyl	55		39-105
1718-51-0	Terphenyl-d14 (Surr)	48		28-148

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014021.D
Lims ID: 180-82446-B-3-B
Client ID: POS-SED-R14-S1 (0-0.5')
Sample Type: Client
Inject. Date: 14-Oct-2018 20:42:30 ALS Bottle#: 20 Worklist Smp#: 21
Injection Vol: 2.0 ul Dil. Factor: 10.0000
Sample Info: 180-0024080-021
Misc. Info.: 180-82446-B-3-B
Operator ID: 001562 Instrument ID: CH71

Method: \\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\BNA_CH71.m
Limit Group: BNA 8270D ICAL
Last Update: 15-Oct-2018 09:10:48 Calib Date: 16-Apr-2018 17:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416021.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: fergusond Date: 15-Oct-2018 09:10:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.006	5.998	0.008	95	132145	8.00	
* 2 Naphthalene-d8	136	7.208	7.205	0.003	99	476159	8.00	
* 3 Acenaphthene-d10	164	8.822	8.819	0.003	96	243134	8.00	
* 4 Phenanthrene-d10	188	10.184	10.176	0.008	96	472814	8.00	
* 5 Chrysene-d12	240	13.512	13.477	0.035	96	564945	8.00	
* 6 Perylene-d12	264	16.349	16.298	0.051	99	500625	8.00	
$ 9 Nitrobenzene-d5	82	6.530	6.535	0.000	93	47178	2.16	
$ 10 2-Fluorobiphenyl	172	8.196	8.197	-0.001	99	110230	2.19	
$ 12 Terphenyl-d14	244	11.867	11.846	0.021	99	115688	1.91	
58 Naphthalene	128	7.230	7.220	0.000	95	6992	0.1084	
85 Acenaphthylene	152	8.693	8.693	-0.001	95	8974	0.1655	
88 Acenaphthene	153	8.848	8.859	-0.006	3	1981	0.0538	
103 Fluorene	166	9.318	9.321	-0.006	40	3923	0.0881	
121 Phenanthrene	178	10.205	10.205	0.005	95	38099	0.6053	
122 Anthracene	178	10.253	10.258	0.005	95	15762	0.2498	
131 Fluoranthene	202	11.423	11.423	0.021	96	105125	1.37	
133 Pyrene	202	11.701	11.693	0.016	97	149081	1.77	
146 Benzo[a]anthracene	228	13.501	13.504	0.042	95	62352	0.7389	
147 Chrysene	228	13.560	13.541	0.032	92	63533	0.8028	
152 Benzo[b]fluoranthene	252	15.569	15.595	0.059	96	94931	1.06	
153 Benzo[k]fluoranthene	252	15.611	15.611	0.042	1	33370	0.4120	Ma
154 Benzo[a]pyrene	252	16.226	16.238	0.053	77	61565	0.8195	
157 Indeno[1,2,3-cd]pyrene	276	18.501	18.481	0.085	60	43976	0.5110	
158 Dibenz(a,h)anthracene	278	18.539	18.539	0.080	1	7323	0.1007	Ma
159 Benzo[g,h,i]perylene	276	19.036	19.031	0.091	98	48908	0.6884	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

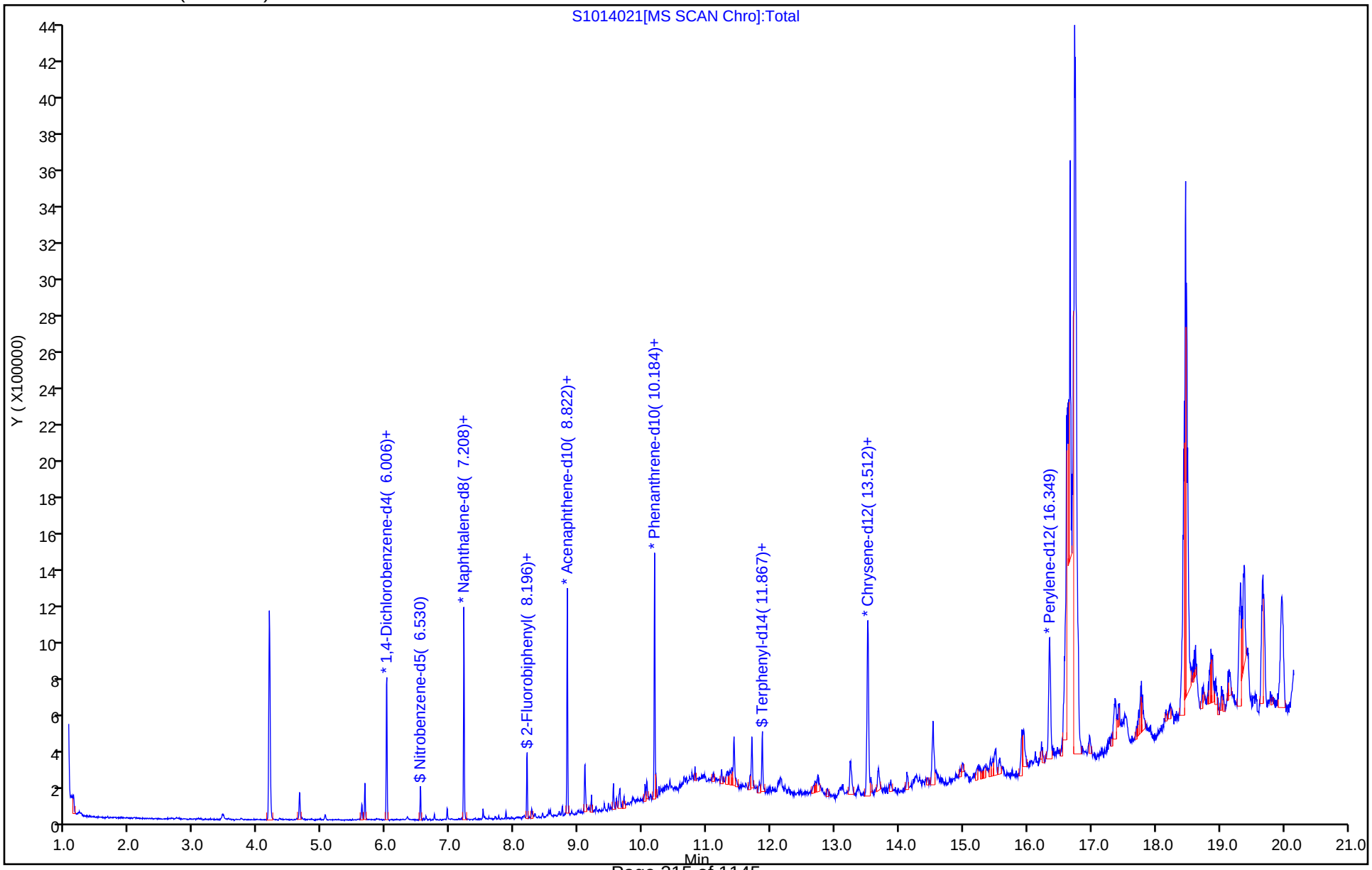
Reagents:

SVTAPITINTRNi_00018	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 15-Oct-2018 09:10:49 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014021.D				
Injection Date:	14-Oct-2018 20:42:30	Instrument ID:	CH71	Operator ID:	001562
Lims ID:	180-82446-B-3-B	Lab Sample ID:	180-82446-3	Worklist Smp#:	21
Client ID:	POS-SED-R14-S1 (0-0.5')				
Injection Vol:	2.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	20
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column: Rxi-5SilMS (0.32 mm)					

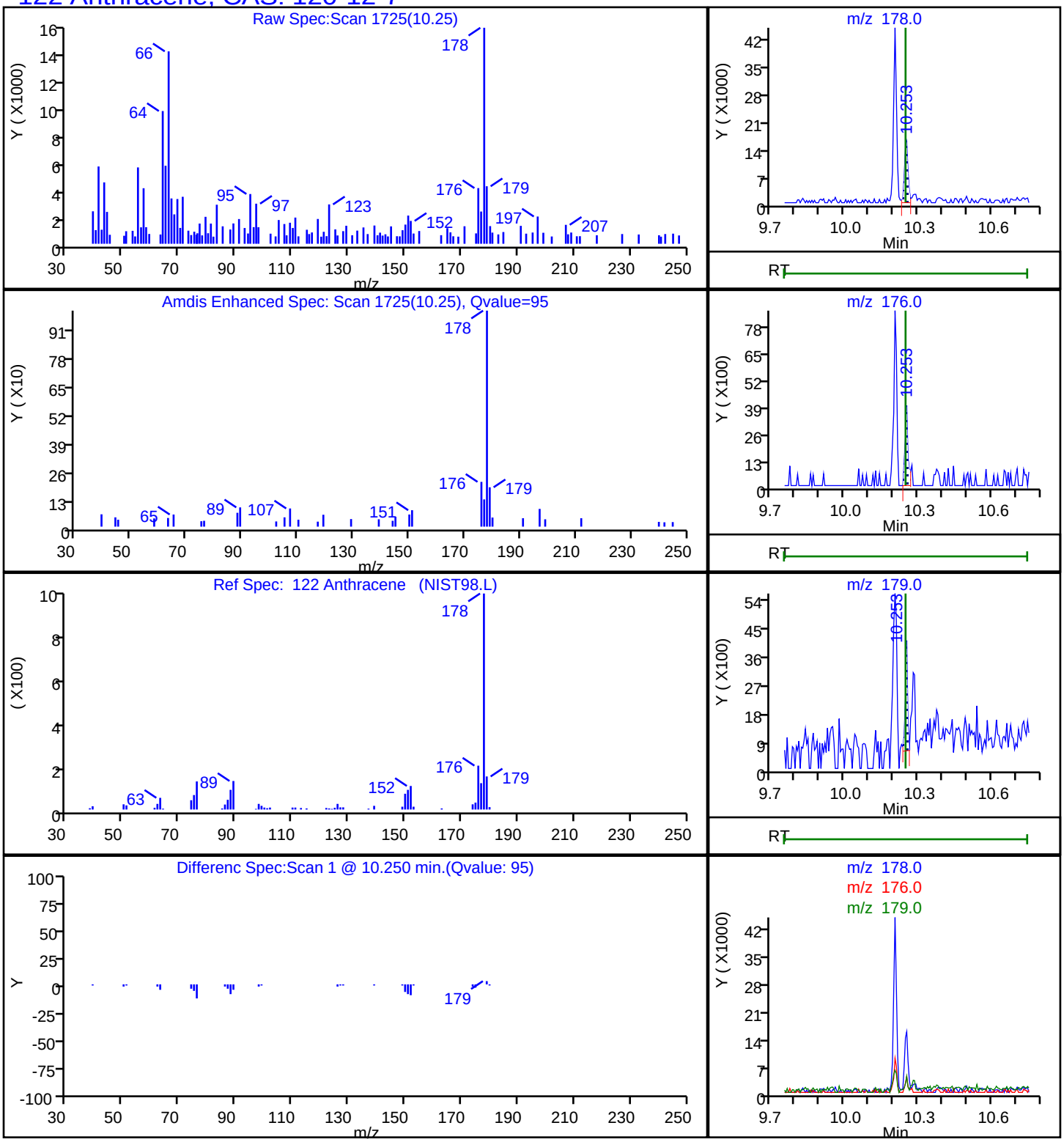


Report Date: 15-Oct-2018 09:10:49 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014021.D				
Injection Date:	14-Oct-2018 20:42:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-3-B	Lab Sample ID:	180-82446-3		
Client ID:	POS-SED-R14-S1 (0-0.5')				
Operator ID:	001562	ALS Bottle#:	20	Worklist Smp#:	21
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

122 Anthracene, CAS: 120-12-7

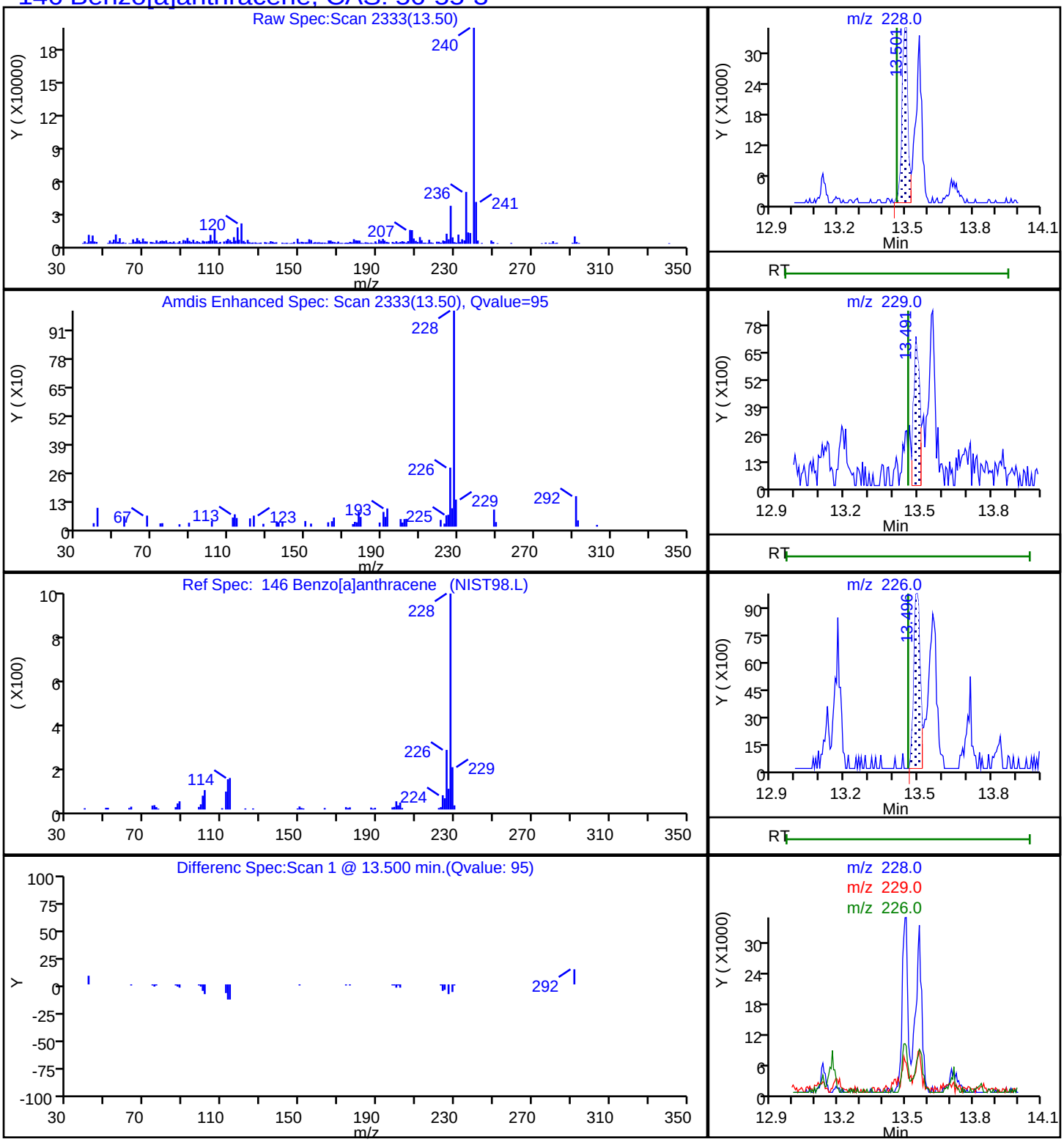


Report Date: 15-Oct-2018 09:10:49 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014021.D				
Injection Date:	14-Oct-2018 20:42:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-3-B	Lab Sample ID:	180-82446-3		
Client ID:	POS-SED-R14-S1 (0-0.5')				
Operator ID:	001562	ALS Bottle#:	20	Worklist Smp#:	21
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

146 Benzo[a]anthracene, CAS: 56-55-3

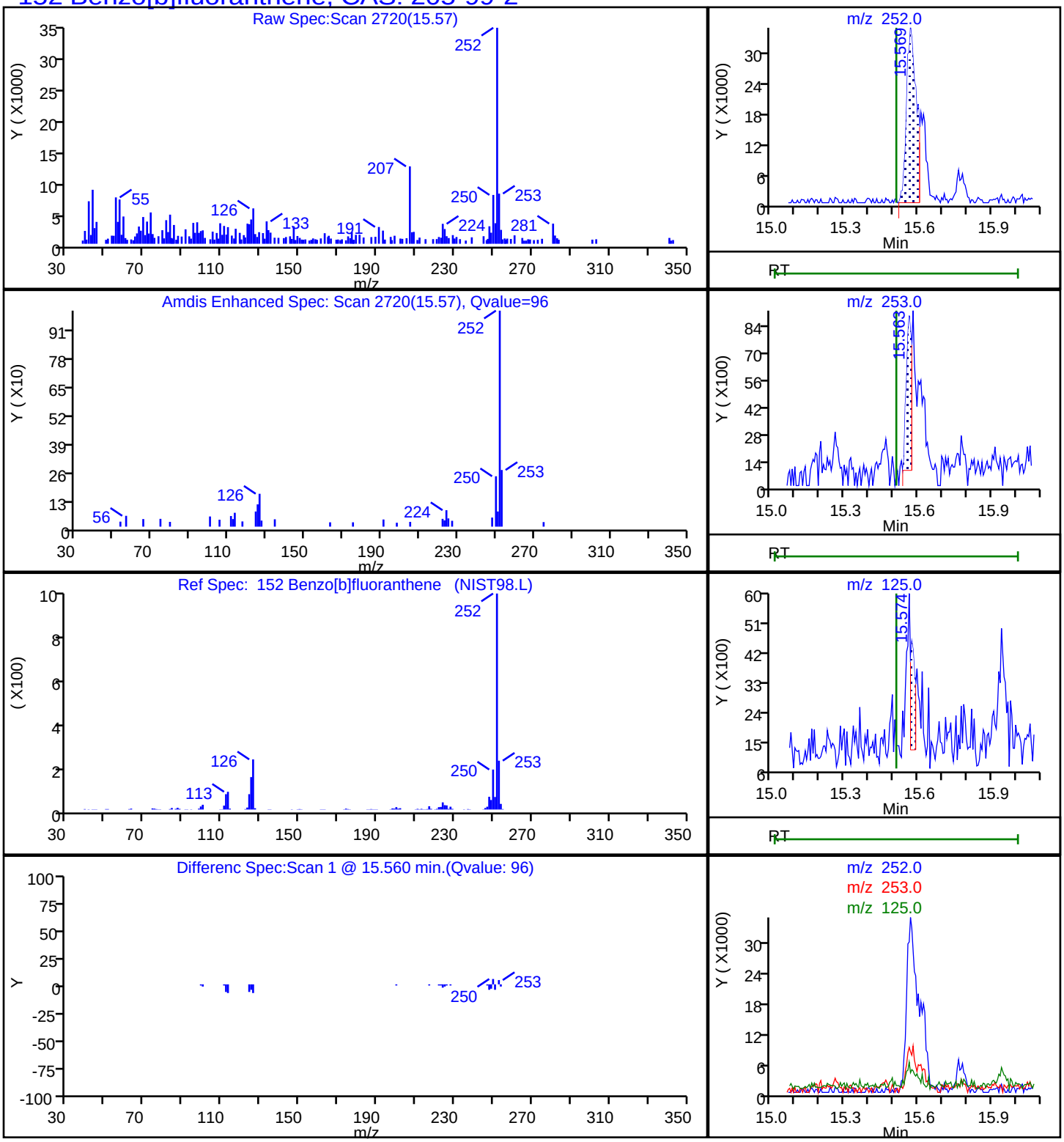


Report Date: 15-Oct-2018 09:10:49 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014021.D				
Injection Date:	14-Oct-2018 20:42:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-3-B	Lab Sample ID:	180-82446-3		
Client ID:	POS-SED-R14-S1 (0-0.5')				
Operator ID:	001562	ALS Bottle#:	20	Worklist Smp#:	21
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

152 Benzo[b]fluoranthene, CAS: 205-99-2

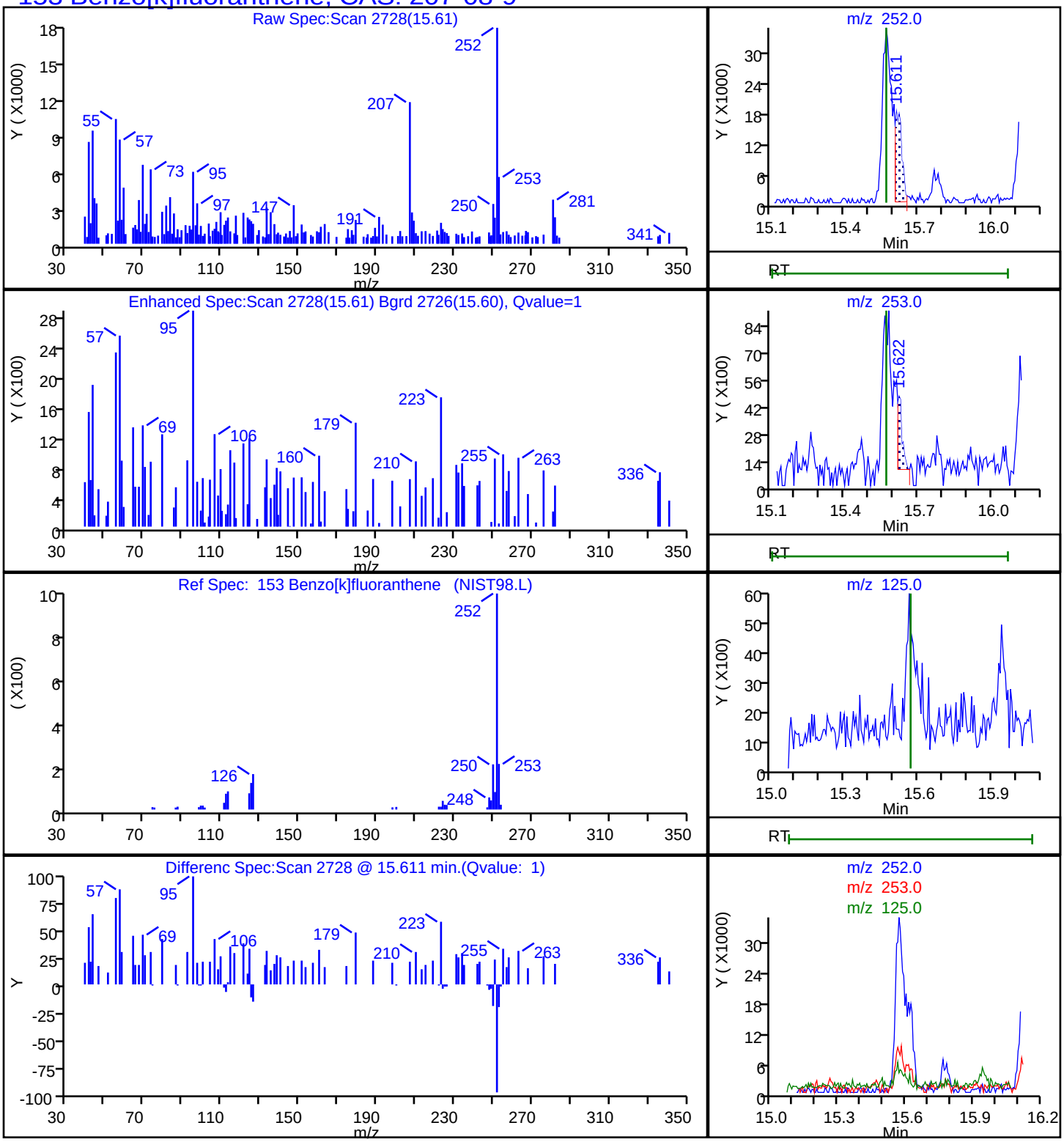


Report Date: 15-Oct-2018 09:10:49 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014021.D				
Injection Date:	14-Oct-2018 20:42:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-3-B	Lab Sample ID:	180-82446-3		
Client ID:	POS-SED-R14-S1 (0-0.5')				
Operator ID:	001562	ALS Bottle#:	20	Worklist Smp#:	21
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

153 Benzo[k]fluoranthene, CAS: 207-08-9

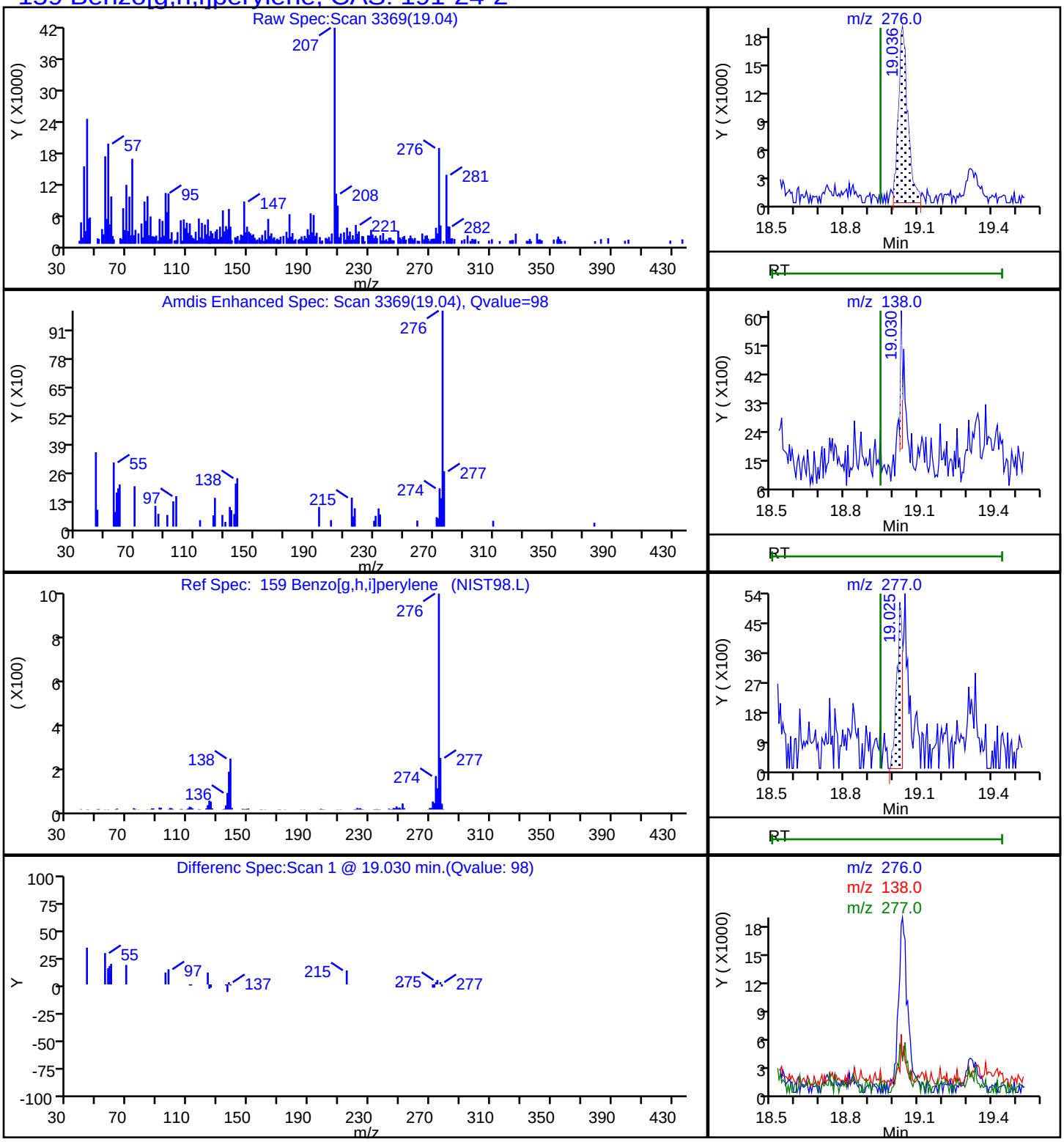


Report Date: 15-Oct-2018 09:10:50 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014021.D				
Injection Date:	14-Oct-2018 20:42:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-3-B	Lab Sample ID:	180-82446-3		
Client ID:	POS-SED-R14-S1 (0-0.5')				
Operator ID:	001562	ALS Bottle#:	20	Worklist Smp#:	21
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

159 Benzo[g,h,i]perylene, CAS: 191-24-2

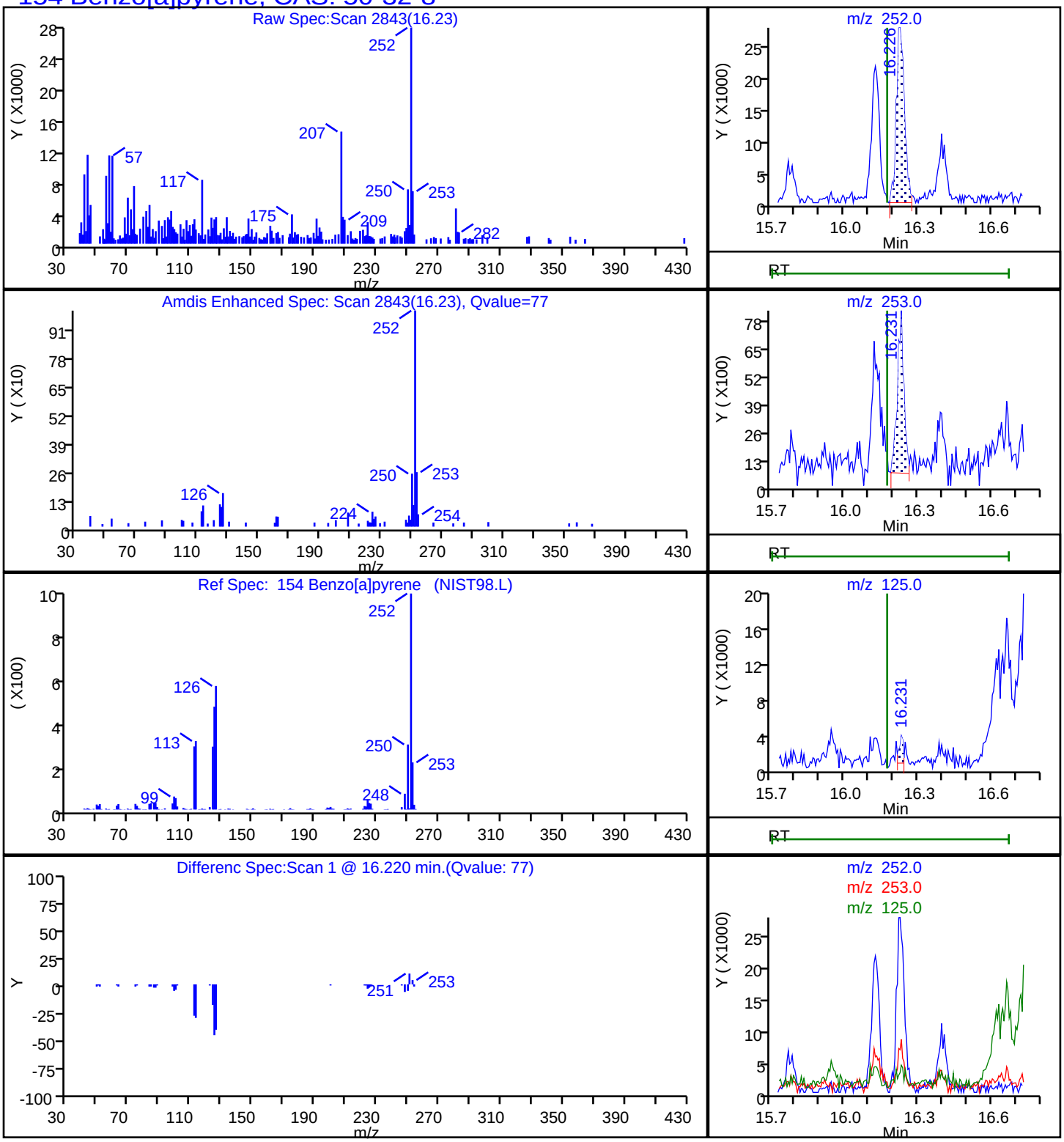


Report Date: 15-Oct-2018 09:10:49 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014021.D				
Injection Date:	14-Oct-2018 20:42:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-3-B	Lab Sample ID:	180-82446-3		
Client ID:	POS-SED-R14-S1 (0-0.5')				
Operator ID:	001562	ALS Bottle#:	20	Worklist Smp#:	21
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

154 Benzo[a]pyrene, CAS: 50-32-8

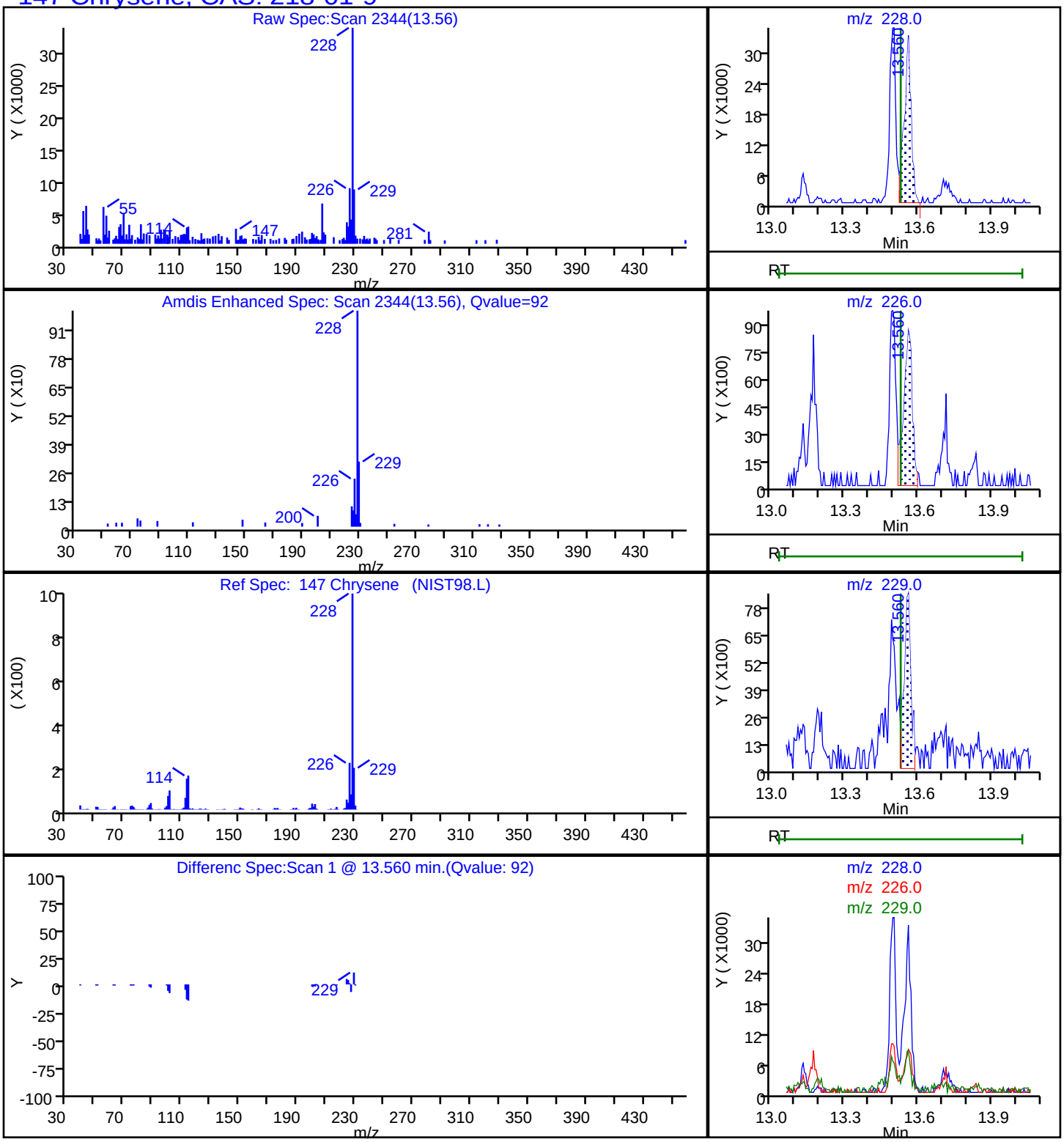


Report Date: 15-Oct-2018 09:10:49 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014021.D				
Injection Date:	14-Oct-2018 20:42:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-3-B	Lab Sample ID:	180-82446-3		
Client ID:	POS-SED-R14-S1 (0-0.5')				
Operator ID:	001562	ALS Bottle#:	20	Worklist Smp#:	21
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

147 Chrysene, CAS: 218-01-9

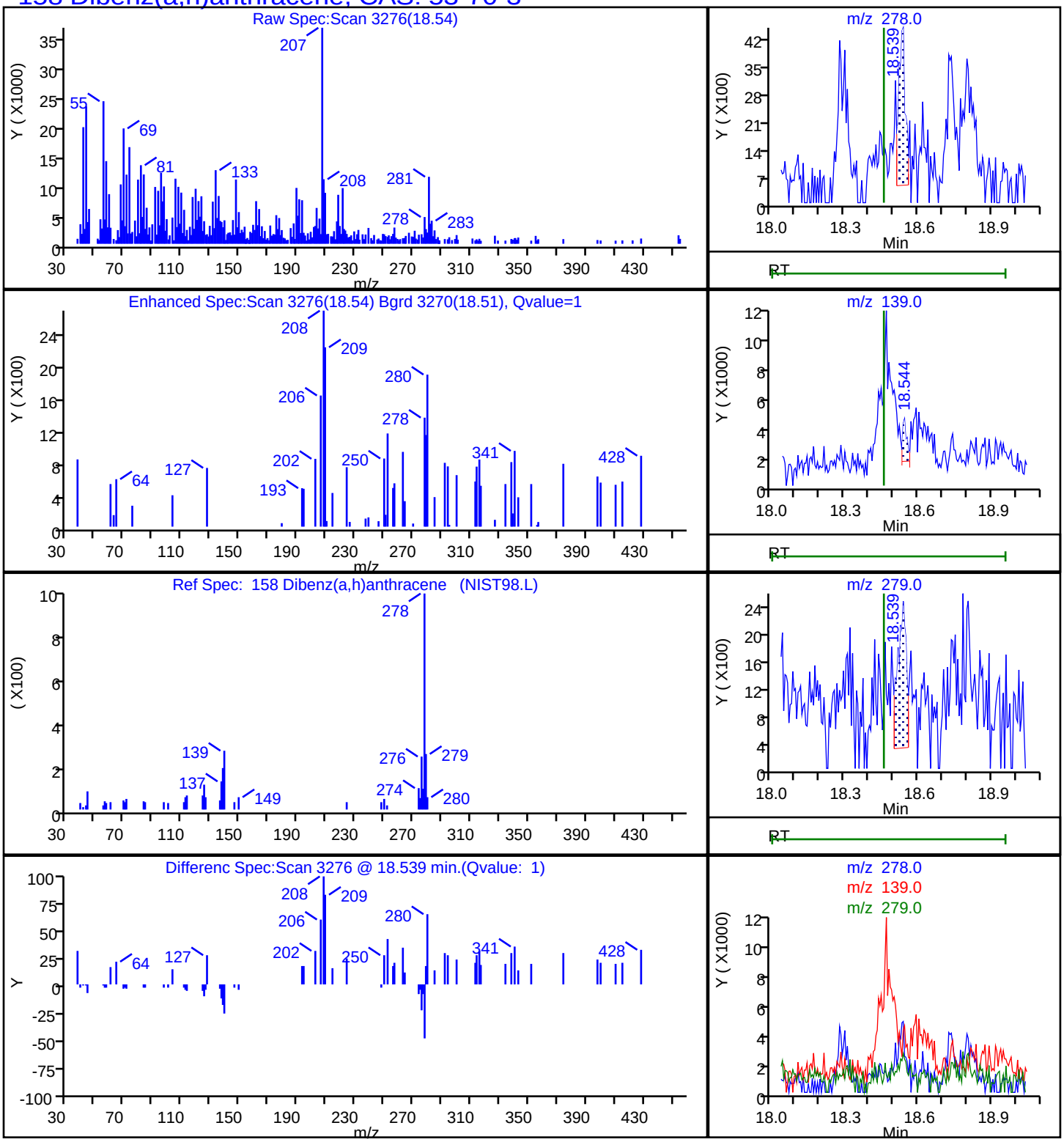


Report Date: 15-Oct-2018 09:10:50 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014021.D				
Injection Date:	14-Oct-2018 20:42:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-3-B	Lab Sample ID:	180-82446-3		
Client ID:	POS-SED-R14-S1 (0-0.5')				
Operator ID:	001562	ALS Bottle#:	20	Worklist Smp#:	21
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

158 Dibenz(a,h)anthracene, CAS: 53-70-3

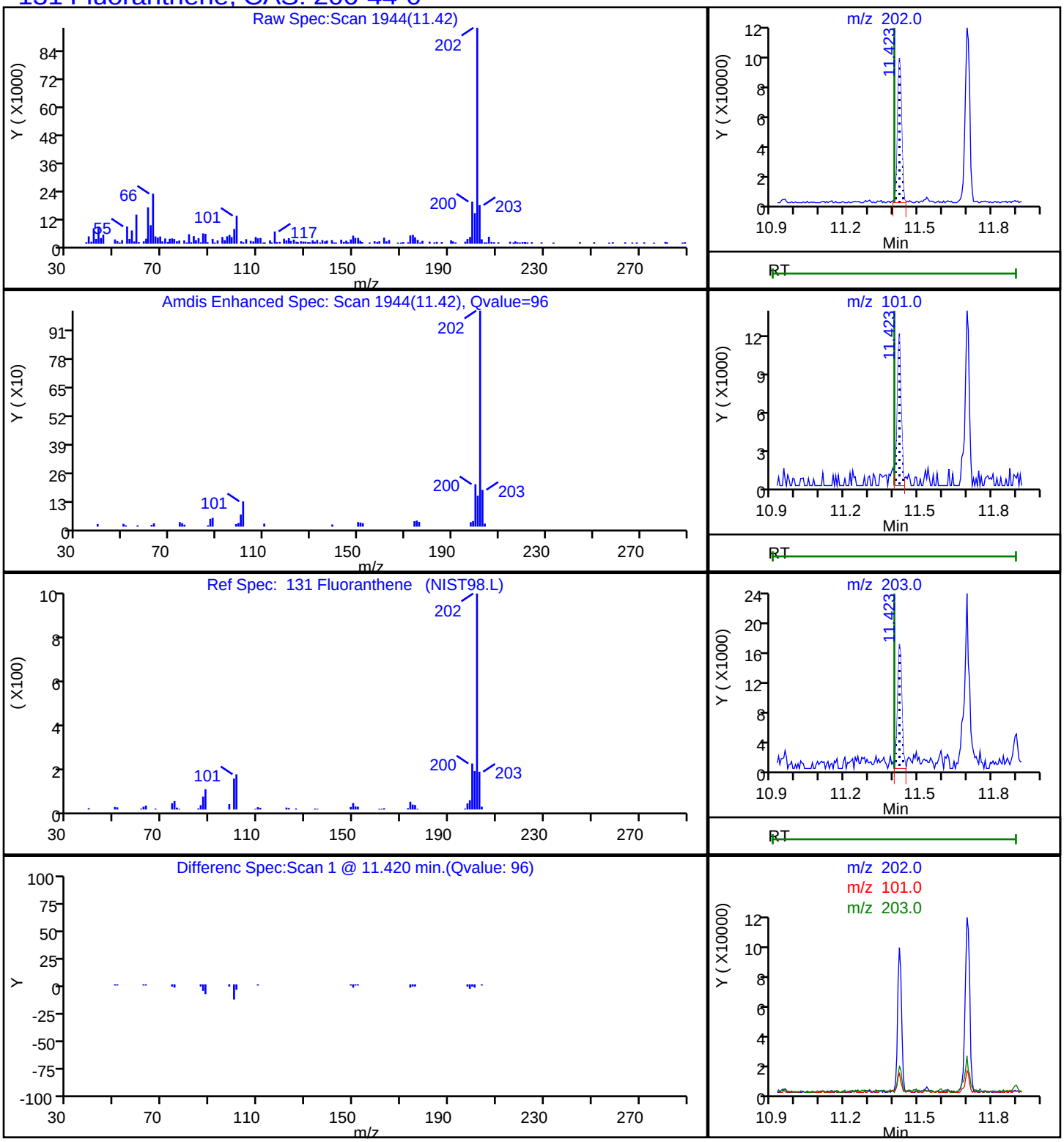


Report Date: 15-Oct-2018 09:10:49 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014021.D				
Injection Date:	14-Oct-2018 20:42:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-3-B	Lab Sample ID:	180-82446-3		
Client ID:	POS-SED-R14-S1 (0-0.5')				
Operator ID:	001562	ALS Bottle#:	20	Worklist Smp#:	21
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

131 Fluoranthene, CAS: 206-44-0

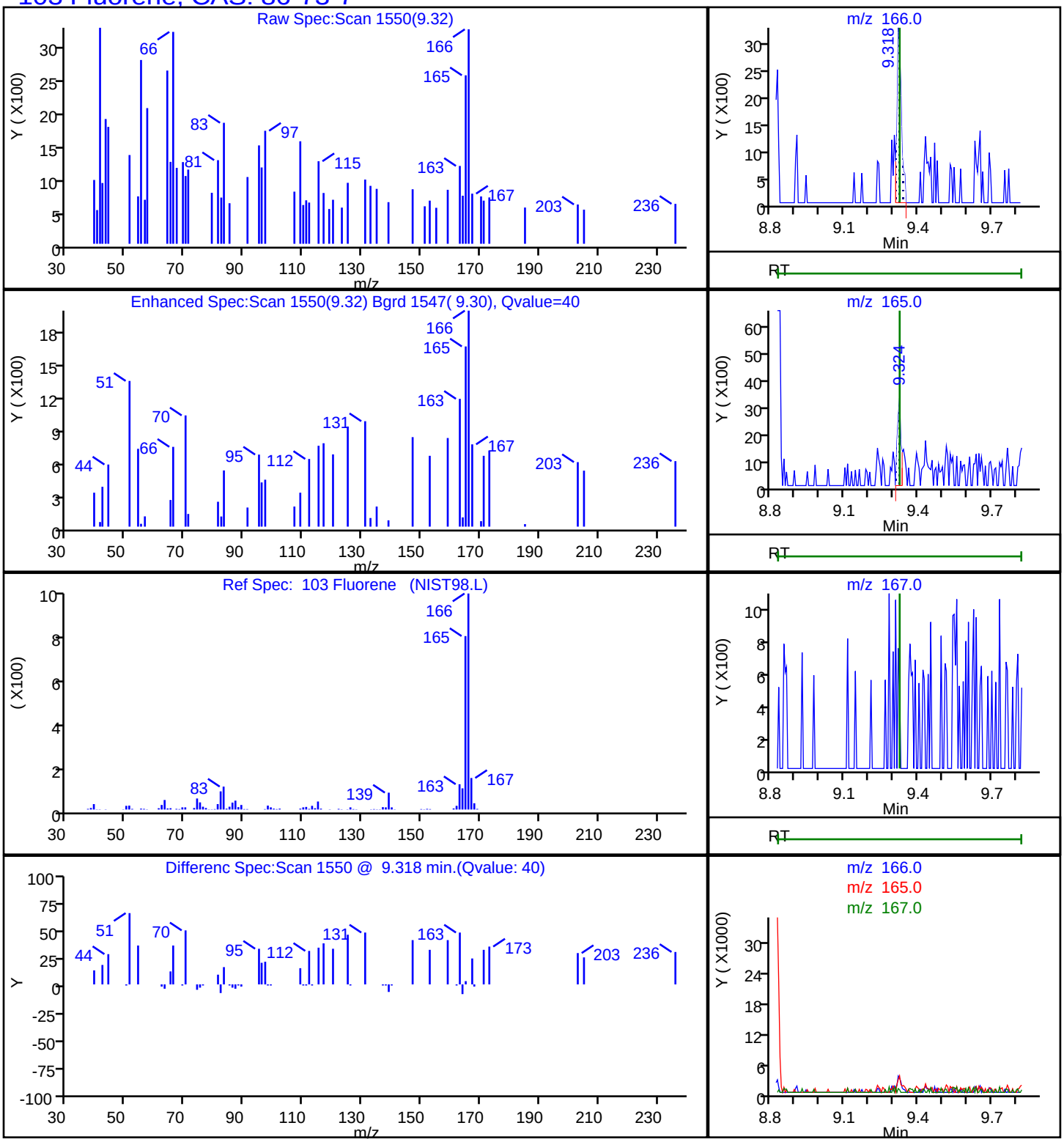


Report Date: 15-Oct-2018 09:10:49 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014021.D				
Injection Date:	14-Oct-2018 20:42:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-3-B	Lab Sample ID:	180-82446-3		
Client ID:	POS-SED-R14-S1 (0-0.5')				
Operator ID:	001562	ALS Bottle#:	20	Worklist Smp#:	21
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

103 Fluorene, CAS: 86-73-7



Report Date: 15-Oct-2018 09:10:50 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014021.D				
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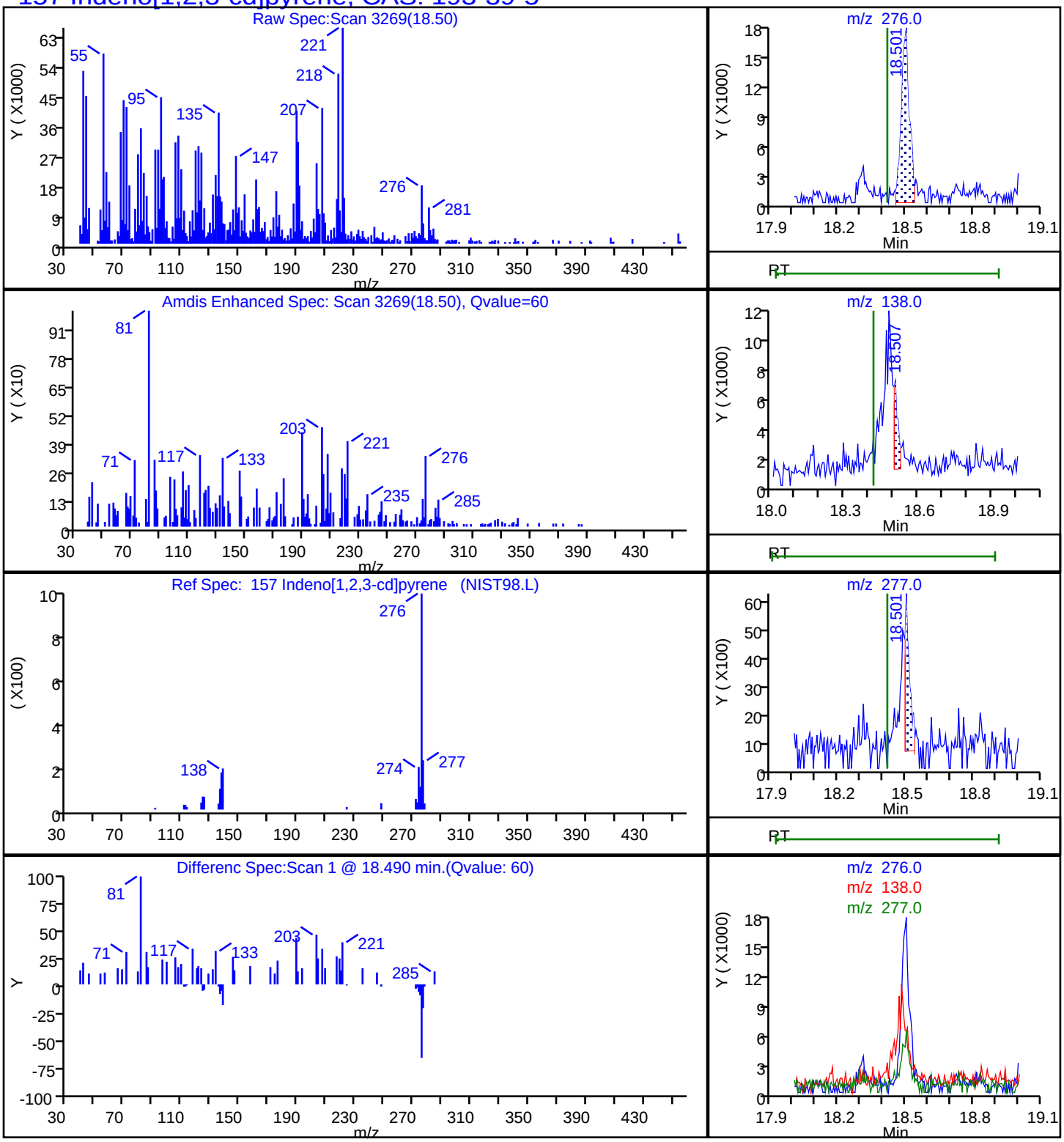
Lims ID:	180-82446-B-3-B	Lab Sample ID:	180-82446-3		
Client ID:	POS-SED-R14-S1 (0-0.5')				
Operator ID:	001562	ALS Bottle#:	20	Worklist Smp#:	21
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

157 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

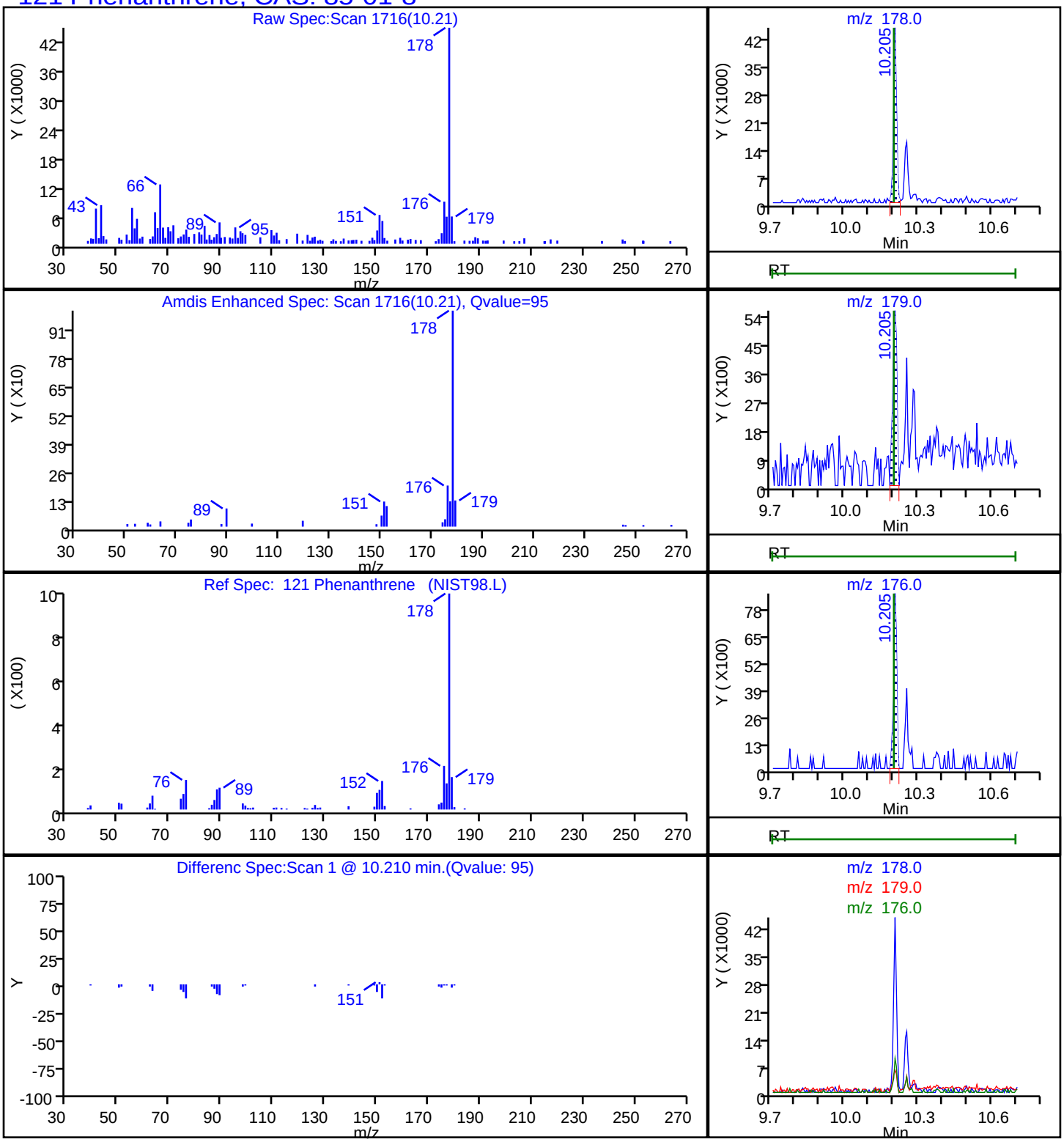


Report Date: 15-Oct-2018 09:10:49 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014021.D				
Injection Date:	14-Oct-2018 20:42:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-3-B	Lab Sample ID:	180-82446-3		
Client ID:	POS-SED-R14-S1 (0-0.5')				
Operator ID:	001562	ALS Bottle#:	20	Worklist Smp#:	21
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

121 Phenanthrene, CAS: 85-01-8

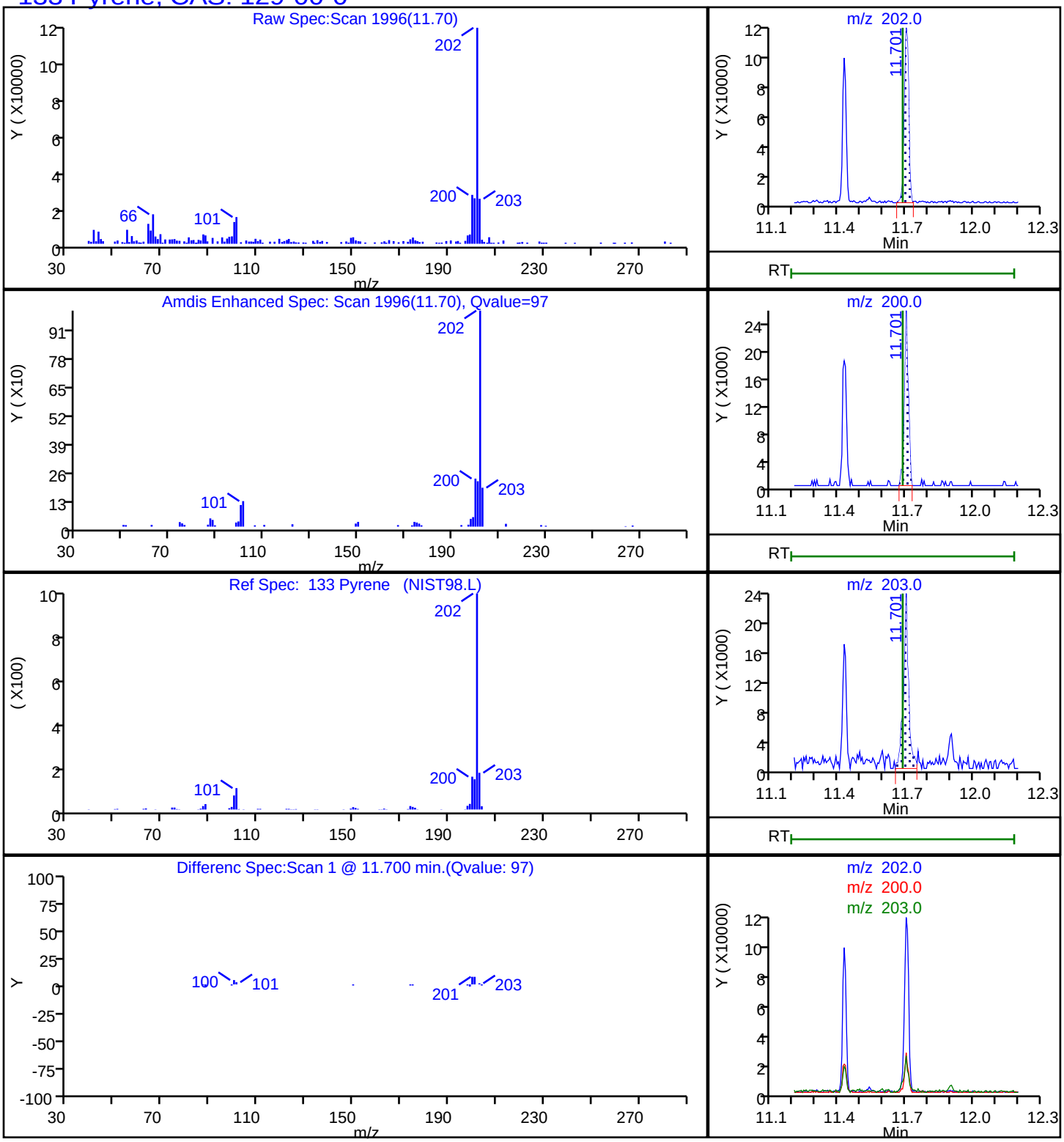


Report Date: 15-Oct-2018 09:10:49 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014021.D				
Injection Date:	14-Oct-2018 20:42:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-3-B	Lab Sample ID:	180-82446-3		
Client ID:	POS-SED-R14-S1 (0-0.5')				
Operator ID:	001562	ALS Bottle#:	20	Worklist Smp#:	21
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

133 Pyrene, CAS: 129-00-0

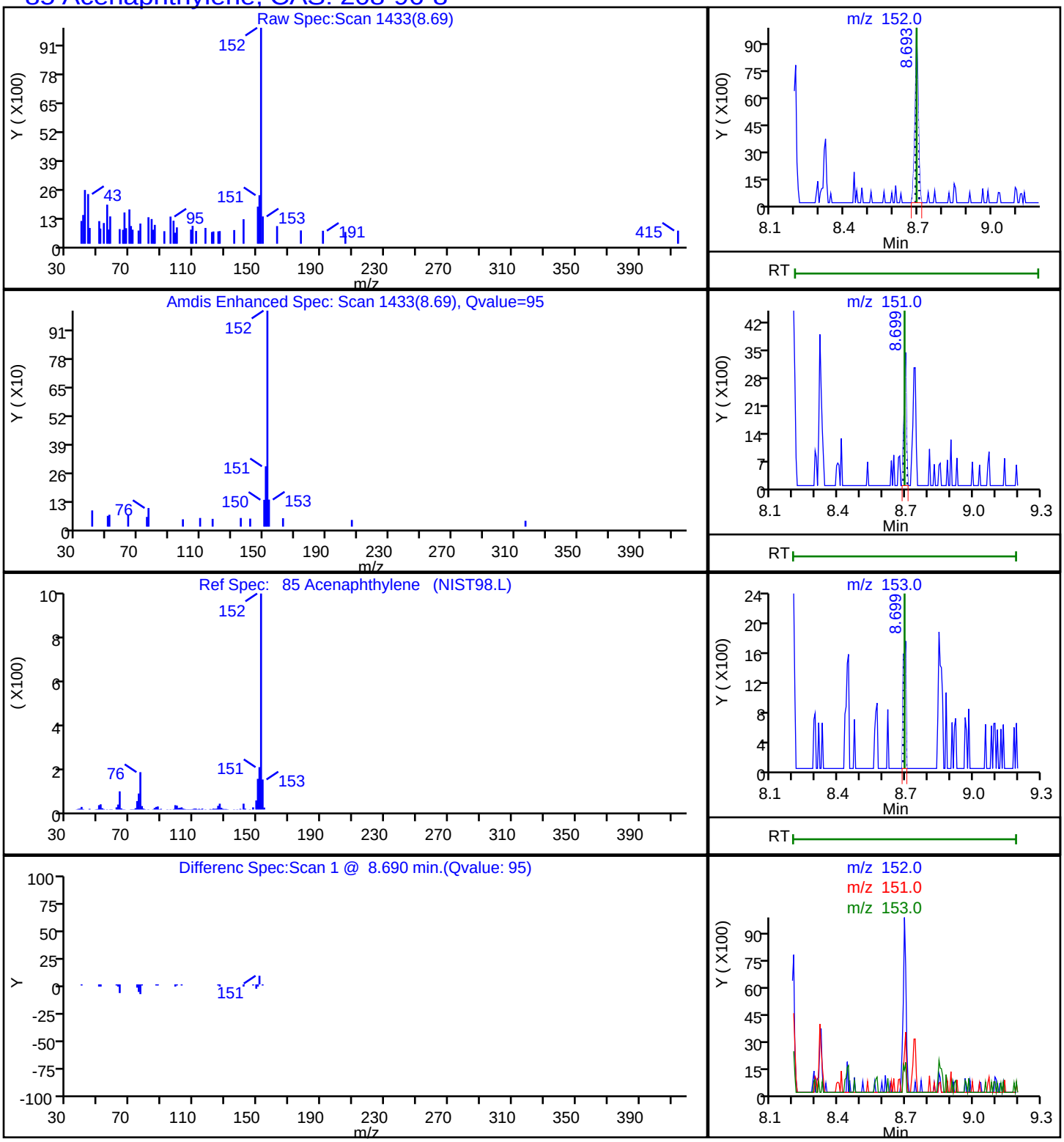


Report Date: 15-Oct-2018 09:10:49 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014021.D				
Injection Date:	14-Oct-2018 20:42:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-3-B	Lab Sample ID:	180-82446-3		
Client ID:	POS-SED-R14-S1 (0-0.5')				
Operator ID:	001562	ALS Bottle#:	20	Worklist Smp#:	21
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

85 Acenaphthylene, CAS: 208-96-8

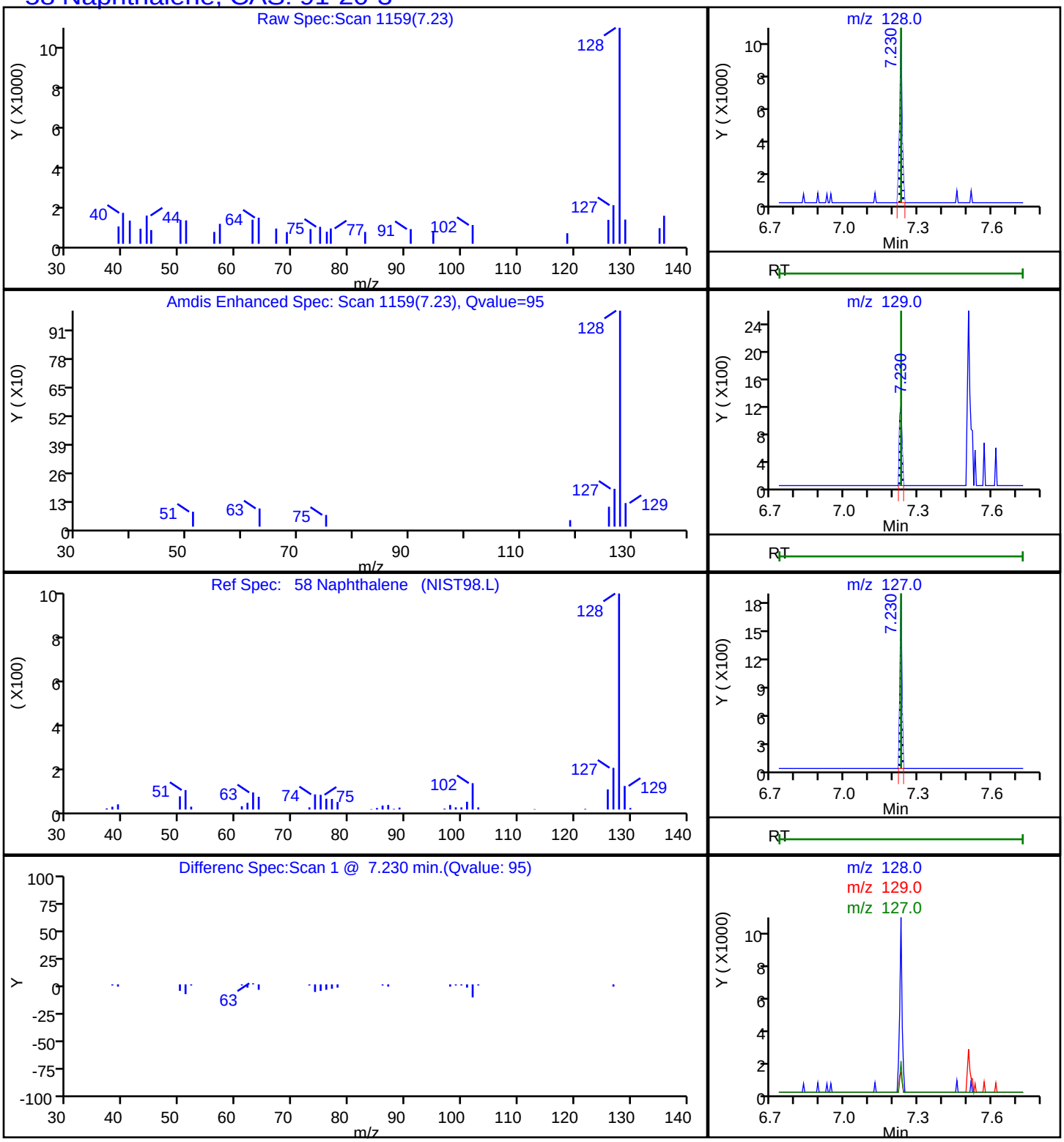


Report Date: 15-Oct-2018 09:10:49 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014021.D				
Injection Date:	14-Oct-2018 20:42:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-3-B	Lab Sample ID:	180-82446-3		
Client ID:	POS-SED-R14-S1 (0-0.5')				
Operator ID:	001562	ALS Bottle#:	20	Worklist Smp#:	21
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

58 Naphthalene, CAS: 91-20-3



Manual Integration/User Assign Peak Report

TestAmerica Pittsburgh

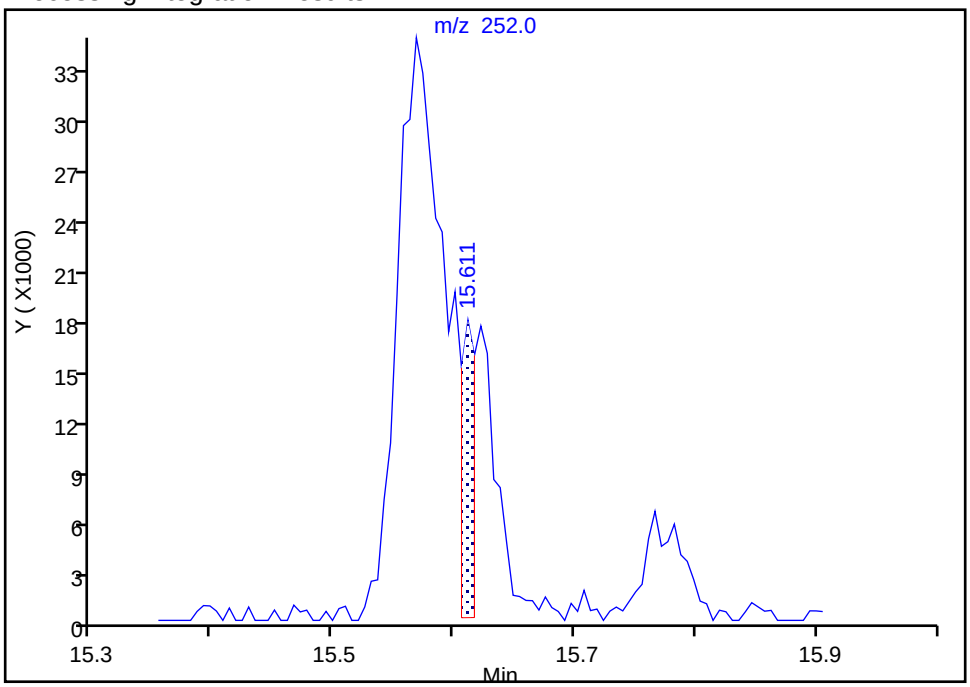
Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014021.D				
Injection Date:	14-Oct-2018 20:42:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-3-B	Lab Sample ID:	180-82446-3		
Client ID:	POS-SED-R14-S1 (0-0.5')				
Operator ID:	001562	ALS Bottle#:	20	Worklist Smp#:	21
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

153 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

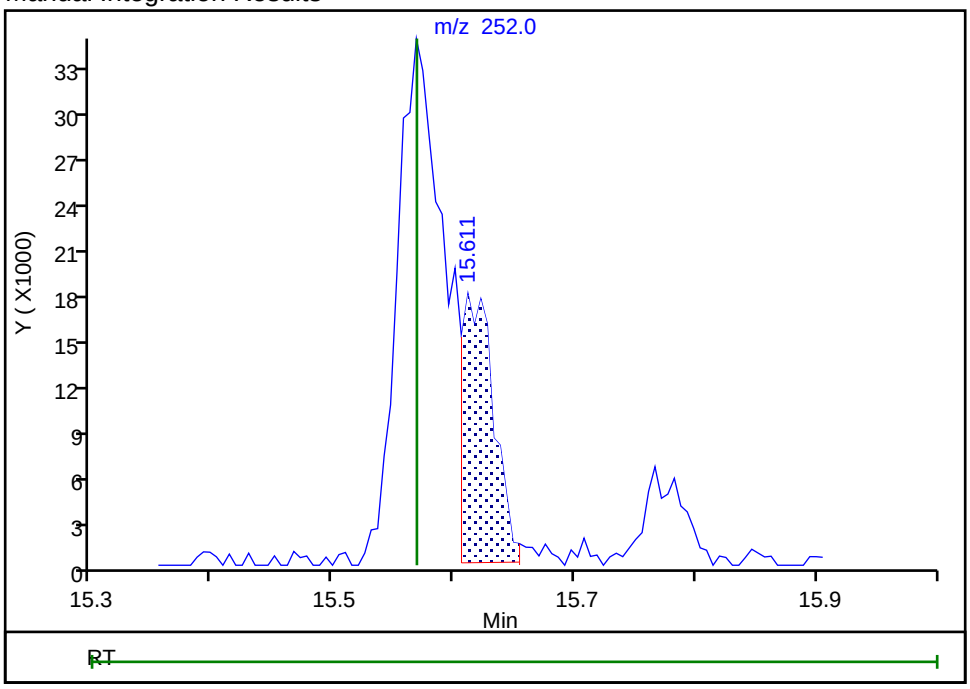
Processing Integration Results

RT: 15.61
Area: 15472
Amount: 0.191027
Amount Units: ng



Manual Integration Results

RT: 15.61
Area: 33370
Amount: 0.412007
Amount Units: ng



Reviewer: fergusond, 15-Oct-2018 09:09:49
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pittsburgh

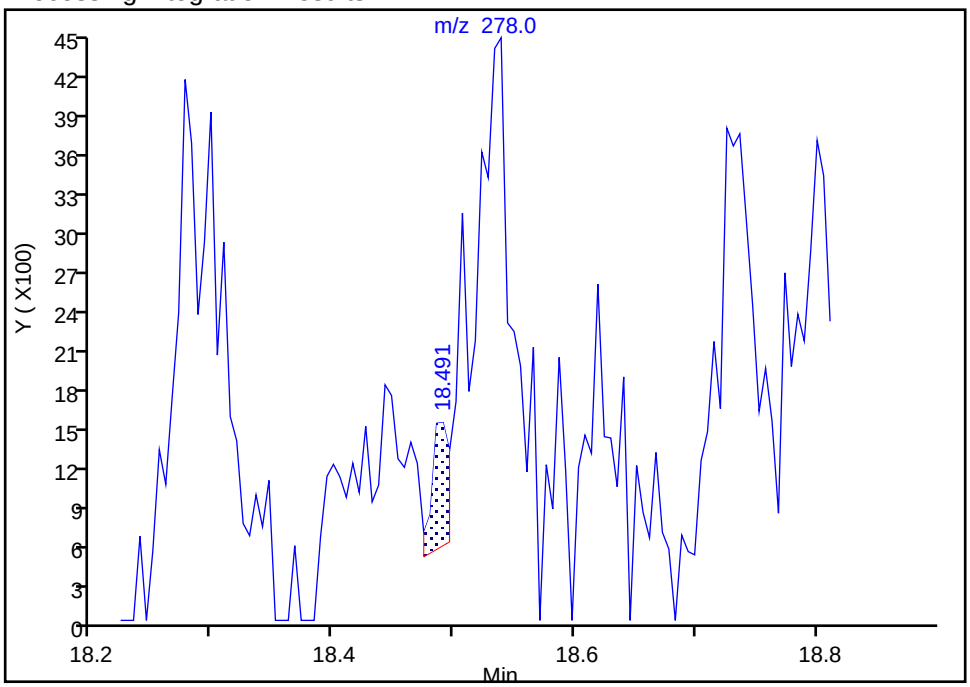
Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014021.D				
Injection Date:	14-Oct-2018 20:42:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-3-B	Lab Sample ID:	180-82446-3		
Client ID:	POS-SED-R14-S1 (0-0.5')				
Operator ID:	001562	ALS Bottle#:	20	Worklist Smp#:	21
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

158 Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

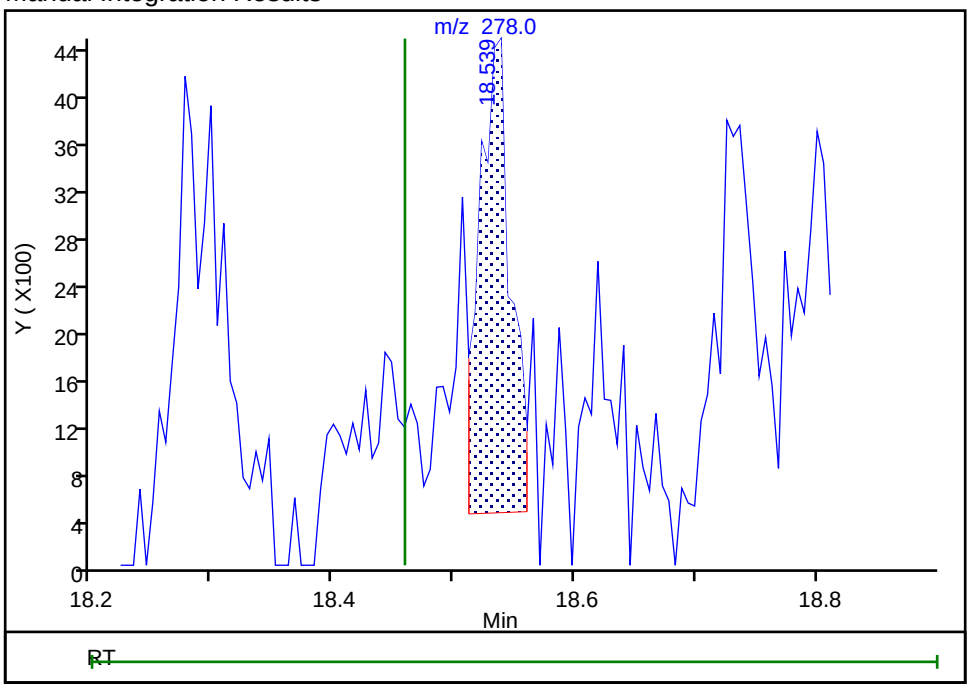
Processing Integration Results

RT: 18.49
Area: 991
Amount: 0.013622
Amount Units: ng



Manual Integration Results

RT: 18.54
Area: 7323
Amount: 0.100661
Amount Units: ng



Reviewer: fergusond, 15-Oct-2018 09:10:31

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh
Job No.: 180-82446-1
SDG No.:
Client Sample ID: POS-SED-R14-S2 (5-10')
Lab Sample ID: 180-82446-4
Matrix: Sediment
Lab File ID: S1014022.D
Analysis Method: EPA 8270D LL
Date Collected: 09/27/2018 13:35
Extract. Method: 3541
Date Extracted: 10/08/2018 09:24
Sample wt/vol: 30.2(g)
Date Analyzed: 10/14/2018 21:10
Con. Extract Vol.: 0.5(mL)
Dilution Factor: 4
Injection Volume: 2(uL)
Level: (low/med) Low
% Moisture: 30.2
GPC Cleanup:(Y/N) N
Analysis Batch No.: 259751
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-12-7	Anthracene	5.2	J	19	4.9
56-55-3	Benzo[a]anthracene	15	J	19	3.6
205-99-2	Benzo[b]fluoranthene	22		19	4.7
207-08-9	Benzo[k]fluoranthene	10	J	19	5.7
191-24-2	Benzo[g,h,i]perylene	12	J	19	4.1
50-32-8	Benzo[a]pyrene	15	J	19	4.1
218-01-9	Chrysene	17	J	19	3.7
53-70-3	Dibenz(a,h)anthracene	4.2	U	19	4.2
206-44-0	Fluoranthene	35		19	5.0
86-73-7	Fluorene	3.7	U	19	3.7
193-39-5	Indeno[1,2,3-cd]pyrene	12	J	19	3.8
85-01-8	Phenanthrene	16	J	19	5.1
129-00-0	Pyrene	36		19	4.5
83-32-9	Acenaphthene	5.5	U	19	5.5
208-96-8	Acenaphthylene	4.2	U	19	4.2
91-20-3	Naphthalene	3.7	U	19	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5 (Surr)	70		39-105
321-60-8	2-Fluorobiphenyl	70		39-105
1718-51-0	Terphenyl-d14 (Surr)	55		28-148

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014022.D
Lims ID: 180-82446-B-4-A
Client ID: POS-SED-R14-S2 (5-10')
Sample Type: Client
Inject. Date: 14-Oct-2018 21:10:30 ALS Bottle#: 21 Worklist Smp#: 22
Injection Vol: 2.0 ul Dil. Factor: 4.0000
Sample Info: 180-0024080-022
Misc. Info.: 180-82446-B-4-A
Operator ID: 001562 Instrument ID: CH71

Method: \\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\BNA_CH71.m
Limit Group: BNA 8270D ICAL
Last Update: 15-Oct-2018 09:17:33 Calib Date: 16-Apr-2018 17:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416021.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: fergusond Date: 15-Oct-2018 09:17:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.997	5.998	-0.002	95	136036	8.00	
* 2 Naphthalene-d8	136	7.204	7.205	-0.001	99	503338	8.00	
* 3 Acenaphthene-d10	164	8.817	8.819	-0.002	96	258087	8.00	
* 4 Phenanthrene-d10	188	10.174	10.176	-0.002	97	514449	8.00	
* 5 Chrysene-d12	240	13.508	13.477	0.031	96	638993	8.00	
* 6 Perylene-d12	264	16.334	16.298	0.036	99	570235	8.00	
$ 9 Nitrobenzene-d5	82	6.525	6.535	-0.005	92	161148	6.99	
$ 10 2-Fluorobiphenyl	172	8.187	8.197	-0.010	100	372292	6.97	
$ 12 Terphenyl-d14	244	11.857	11.846	0.011	99	376447	5.50	
58 Naphthalene	128		7.230				ND	
85 Acenaphthylene	152	8.689	8.689	-0.005	42	3615	0.0628	a
88 Acenaphthene	153	8.844	8.859	-0.010	8	1602	0.0410	
103 Fluorene	166	9.314	9.314	-0.010	30	2152	0.0455	a
121 Phenanthrene	178	10.201	10.205	0.001	92	22949	0.3351	
122 Anthracene	178	10.244	10.258	-0.004	92	7490	0.1091	
131 Fluoranthene	202	11.413	11.423	0.011	96	62147	0.7455	
133 Pyrene	202	11.691	11.693	0.006	98	71591	0.7512	
146 Benzo[a]anthracene	228	13.486	13.504	0.027	86	29943	0.3137	
147 Chrysene	228	13.550	13.550	0.022	95	31316	0.3498	M
152 Benzo[b]fluoranthene	252	15.548	15.595	0.038	91	48287	0.4726	
153 Benzo[k]fluoranthene	252	15.591	15.591	0.022	1	19673	0.2132	Ma
154 Benzo[a]pyrene	252	16.221	16.221	0.048	71	27420	0.3204	a
157 Indeno[1,2,3-cd]pyrene	276	18.481	18.481	0.065	43	25609	0.2613	M
158 Dibenz(a,h)anthracene	278		18.459				ND	U
159 Benzo[g,h,i]perylene	276	19.031	19.031	0.086	44	20053	0.2478	Ma

QC Flag Legend

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

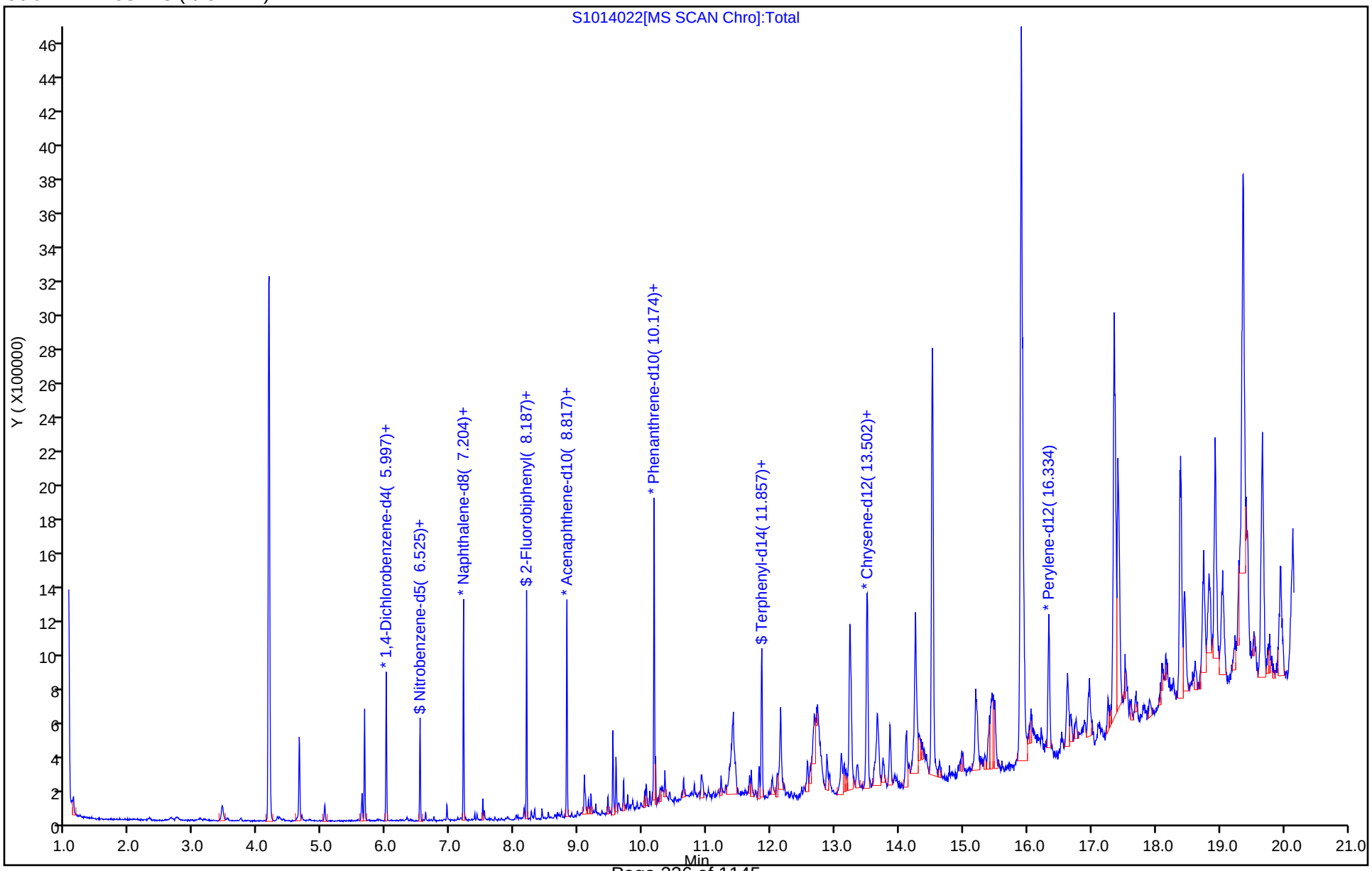
SVTAPITINTRNi_00018	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 15-Oct-2018 09:17:34 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014022.D				
Injection Date:	14-Oct-2018 21:10:30	Instrument ID:	CH71	Operator ID:	001562
Lims ID:	180-82446-B-4-A	Lab Sample ID:	180-82446-4	Worklist Smp#:	22
Client ID:	POS-SED-R14-S2 (5-10')				
Injection Vol:	2.0 ul	Dil. Factor:	4.0000	ALS Bottle#:	21
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)

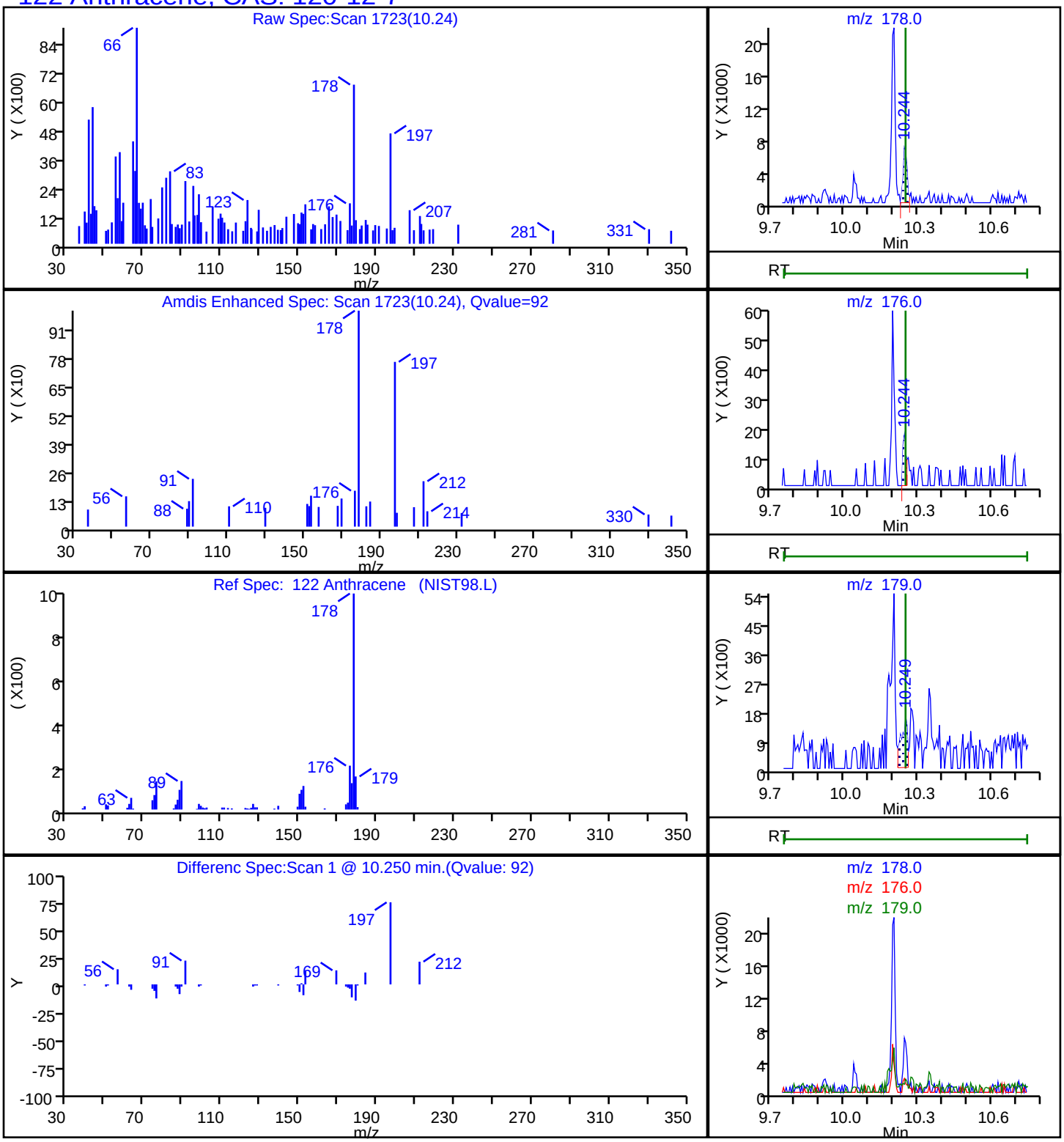


Report Date: 15-Oct-2018 09:17:35 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014022.D				
Injection Date:	14-Oct-2018 21:10:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-4-A	Lab Sample ID:	180-82446-4		
Client ID:	POS-SED-R14-S2 (5-10')				
Operator ID:	001562	ALS Bottle#:	21	Worklist Smp#:	22
Injection Vol:	2.0 ul	Dil. Factor:	4.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

122 Anthracene, CAS: 120-12-7

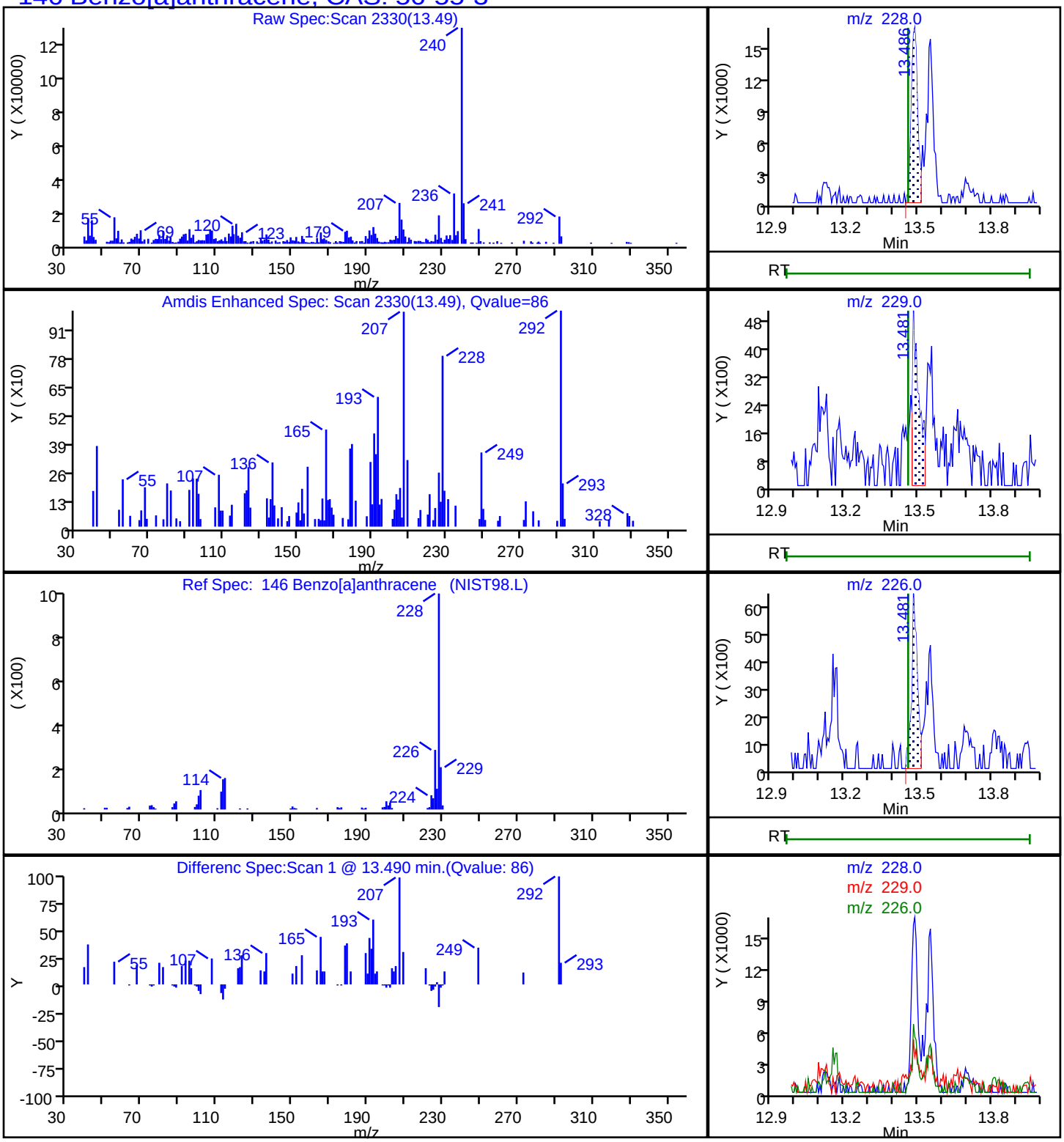


Report Date: 15-Oct-2018 09:17:35 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014022.D				
Injection Date:	14-Oct-2018 21:10:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-4-A	Lab Sample ID:	180-82446-4		
Client ID:	POS-SED-R14-S2 (5-10')				
Operator ID:	001562	ALS Bottle#:	21	Worklist Smp#:	22
Injection Vol:	2.0 ul	Dil. Factor:	4.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

146 Benzo[a]anthracene, CAS: 56-55-3

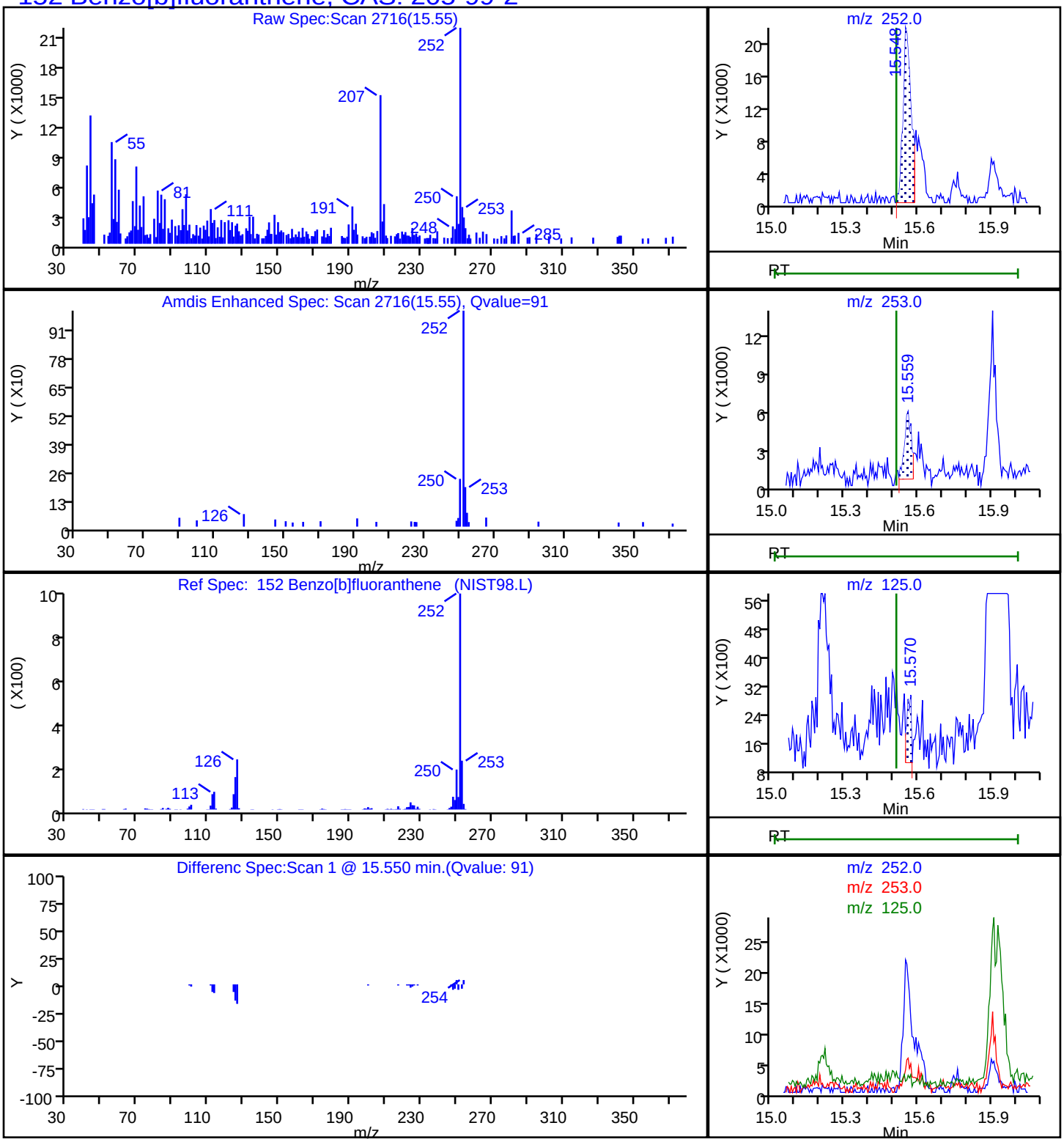


Report Date: 15-Oct-2018 09:17:35 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014022.D				
Injection Date:	14-Oct-2018 21:10:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-4-A	Lab Sample ID:	180-82446-4		
Client ID:	POS-SED-R14-S2 (5-10')				
Operator ID:	001562	ALS Bottle#:	21	Worklist Smp#:	22
Injection Vol:	2.0 ul	Dil. Factor:	4.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

152 Benzo[b]fluoranthene, CAS: 205-99-2

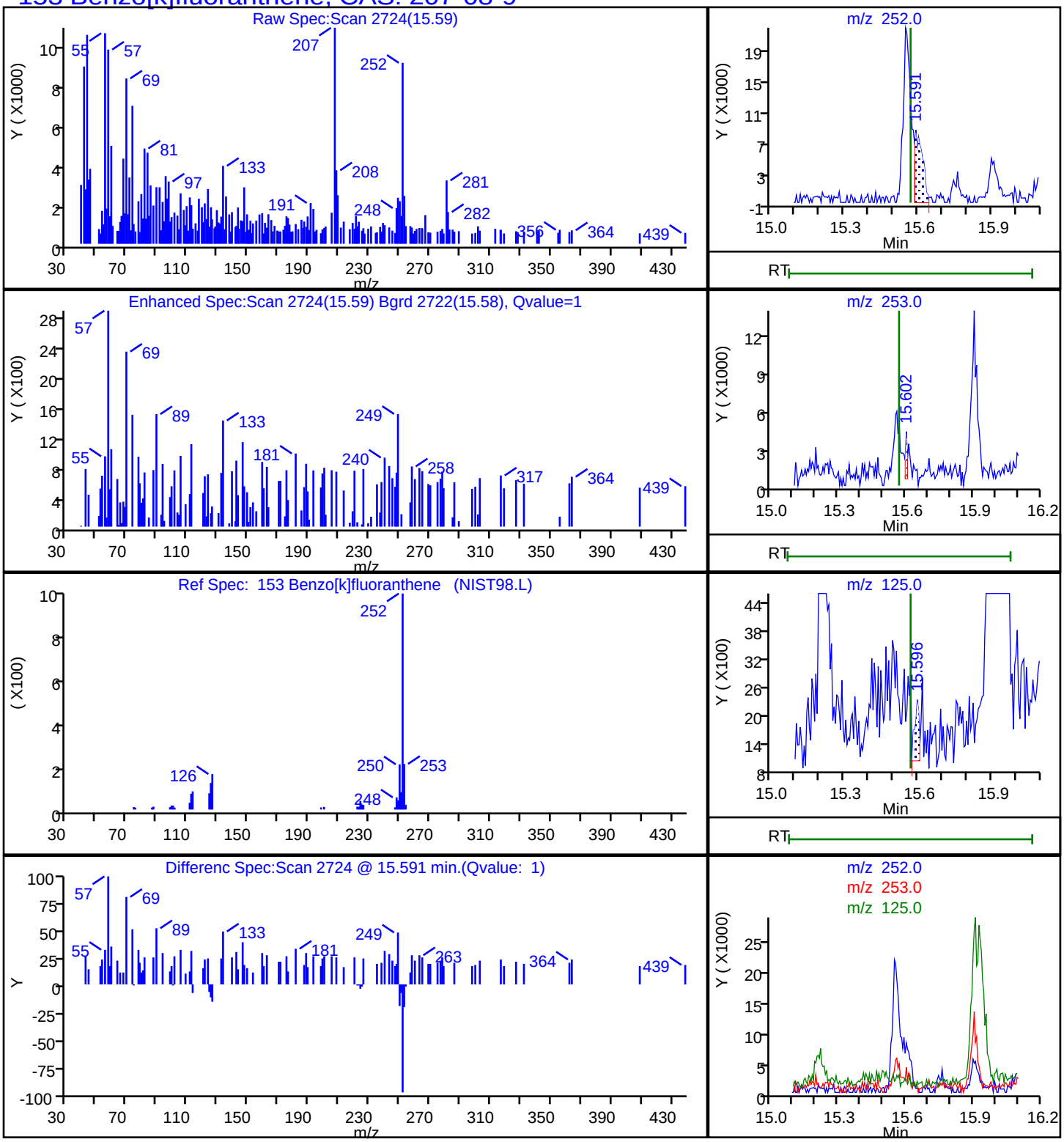


Report Date: 15-Oct-2018 09:17:35 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014022.D				
Injection Date:	14-Oct-2018 21:10:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-4-A	Lab Sample ID:	180-82446-4		
Client ID:	POS-SED-R14-S2 (5-10')				
Operator ID:	001562	ALS Bottle#:	21	Worklist Smp#:	22
Injection Vol:	2.0 ul	Dil. Factor:	4.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

153 Benzo[k]fluoranthene, CAS: 207-08-9

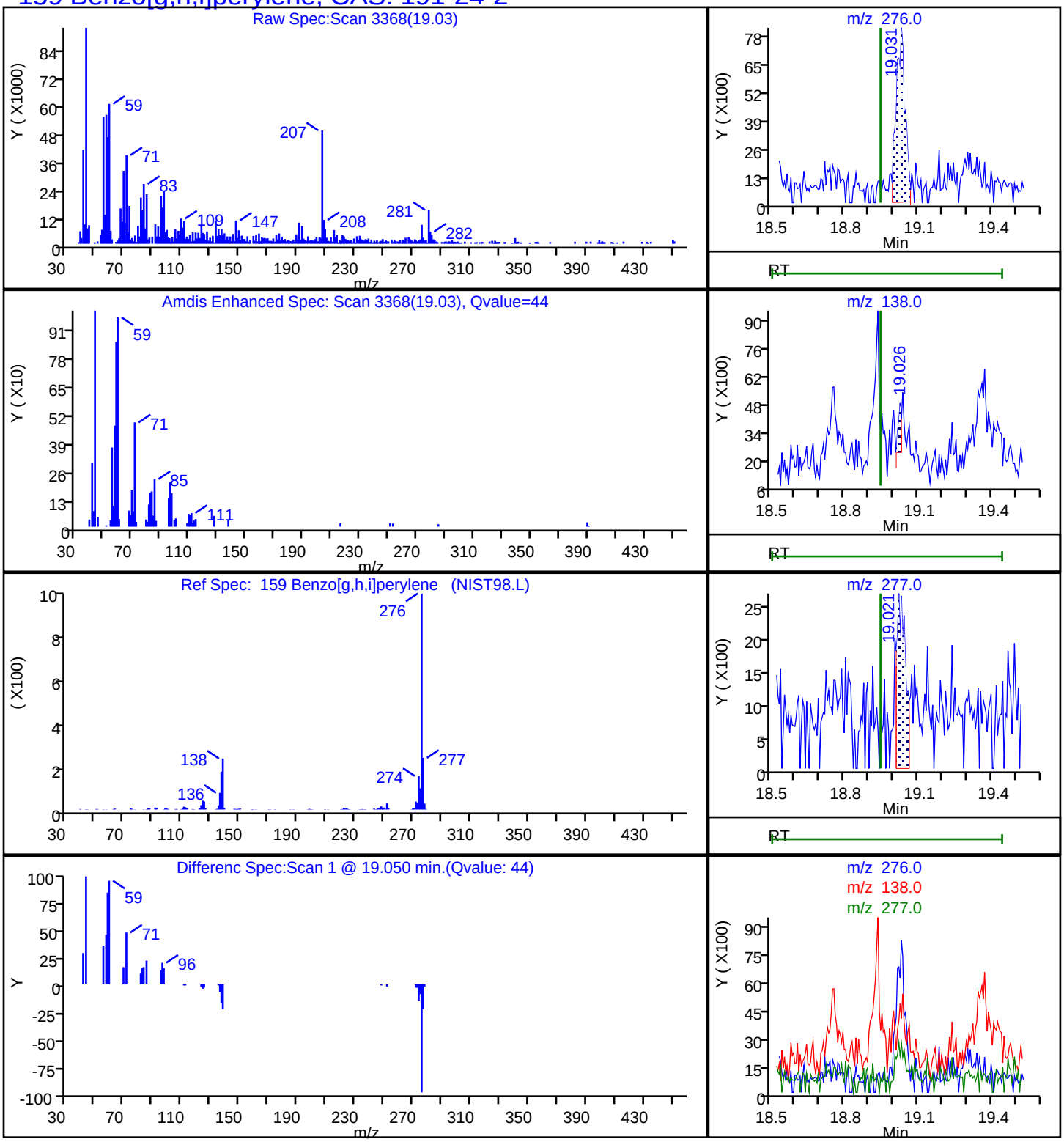


Report Date: 15-Oct-2018 09:17:36 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014022.D				
Injection Date:	14-Oct-2018 21:10:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-4-A	Lab Sample ID:	180-82446-4		
Client ID:	POS-SED-R14-S2 (5-10')				
Operator ID:	001562	ALS Bottle#:	21	Worklist Smp#:	22
Injection Vol:	2.0 ul	Dil. Factor:	4.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

159 Benzo[g,h,i]perylene, CAS: 191-24-2

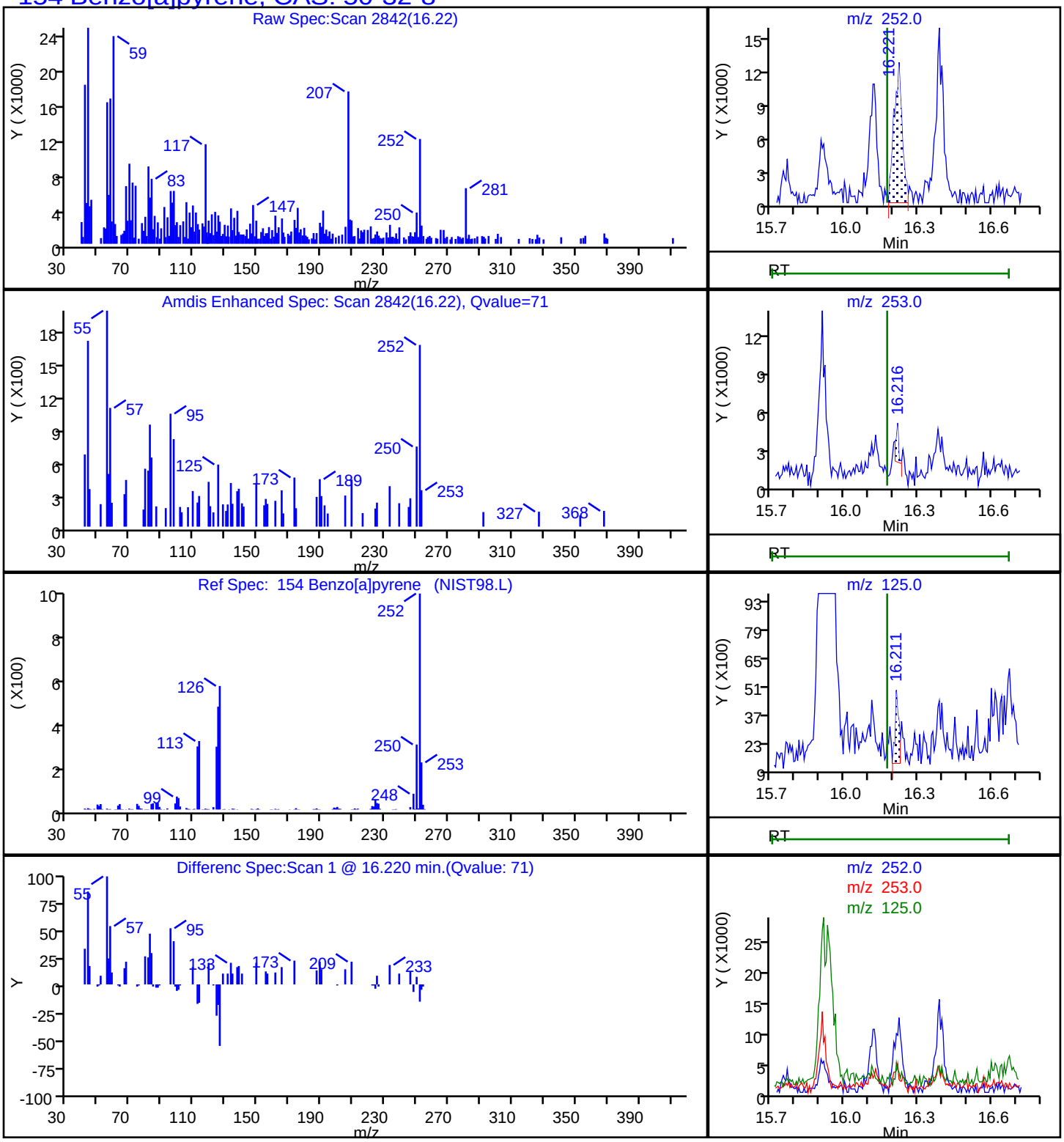


Report Date: 15-Oct-2018 09:17:35 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014022.D				
Injection Date:	14-Oct-2018 21:10:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-4-A	Lab Sample ID:	180-82446-4		
Client ID:	POS-SED-R14-S2 (5-10')				
Operator ID:	001562	ALS Bottle#:	21	Worklist Smp#:	22
Injection Vol:	2.0 ul	Dil. Factor:	4.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

154 Benzo[a]pyrene, CAS: 50-32-8

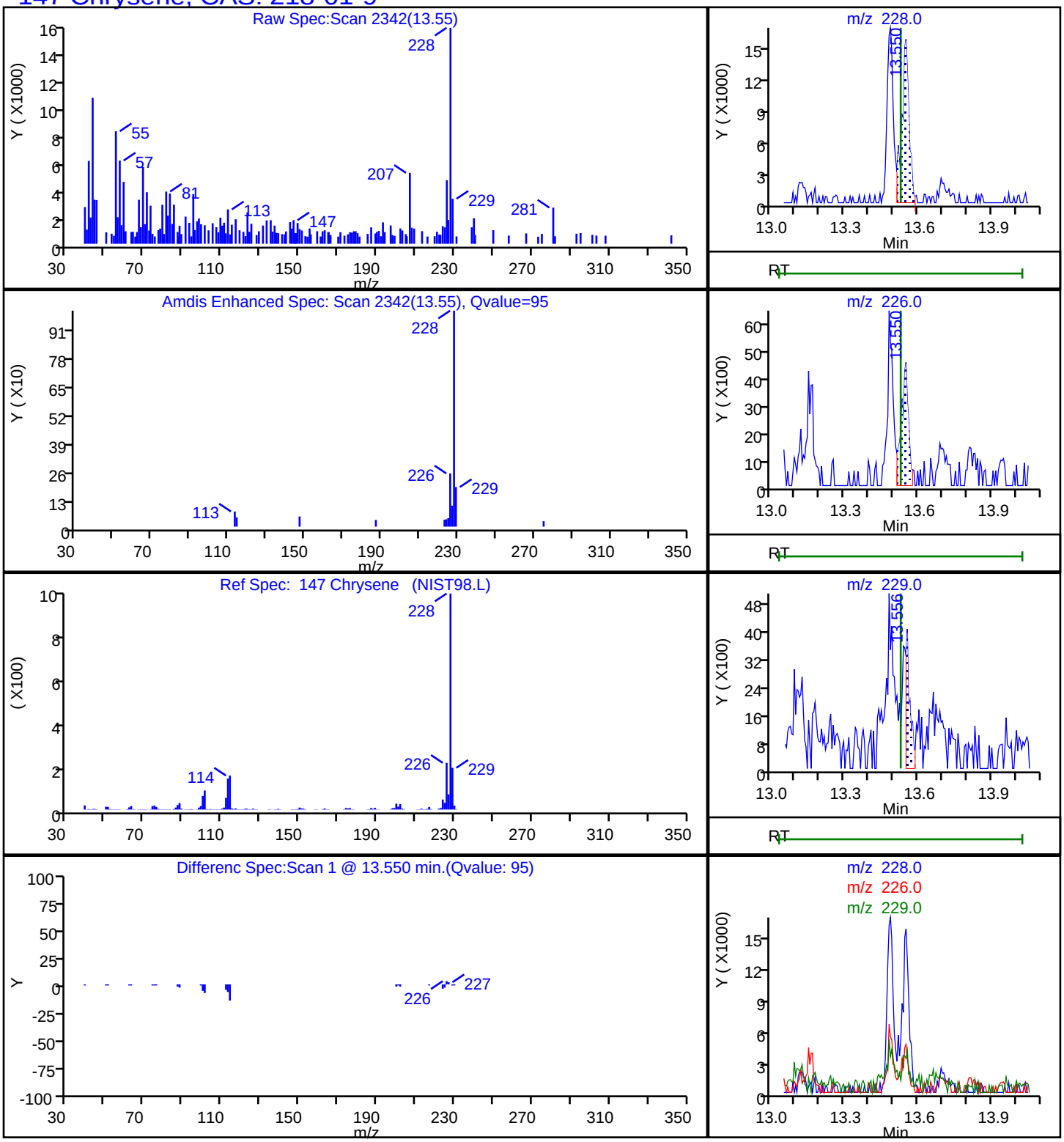


Report Date: 15-Oct-2018 09:17:35 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014022.D				
Injection Date:	14-Oct-2018 21:10:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-4-A	Lab Sample ID:	180-82446-4		
Client ID:	POS-SED-R14-S2 (5-10')				
Operator ID:	001562	ALS Bottle#:	21	Worklist Smp#:	22
Injection Vol:	2.0 ul	Dil. Factor:	4.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

147 Chrysene, CAS: 218-01-9

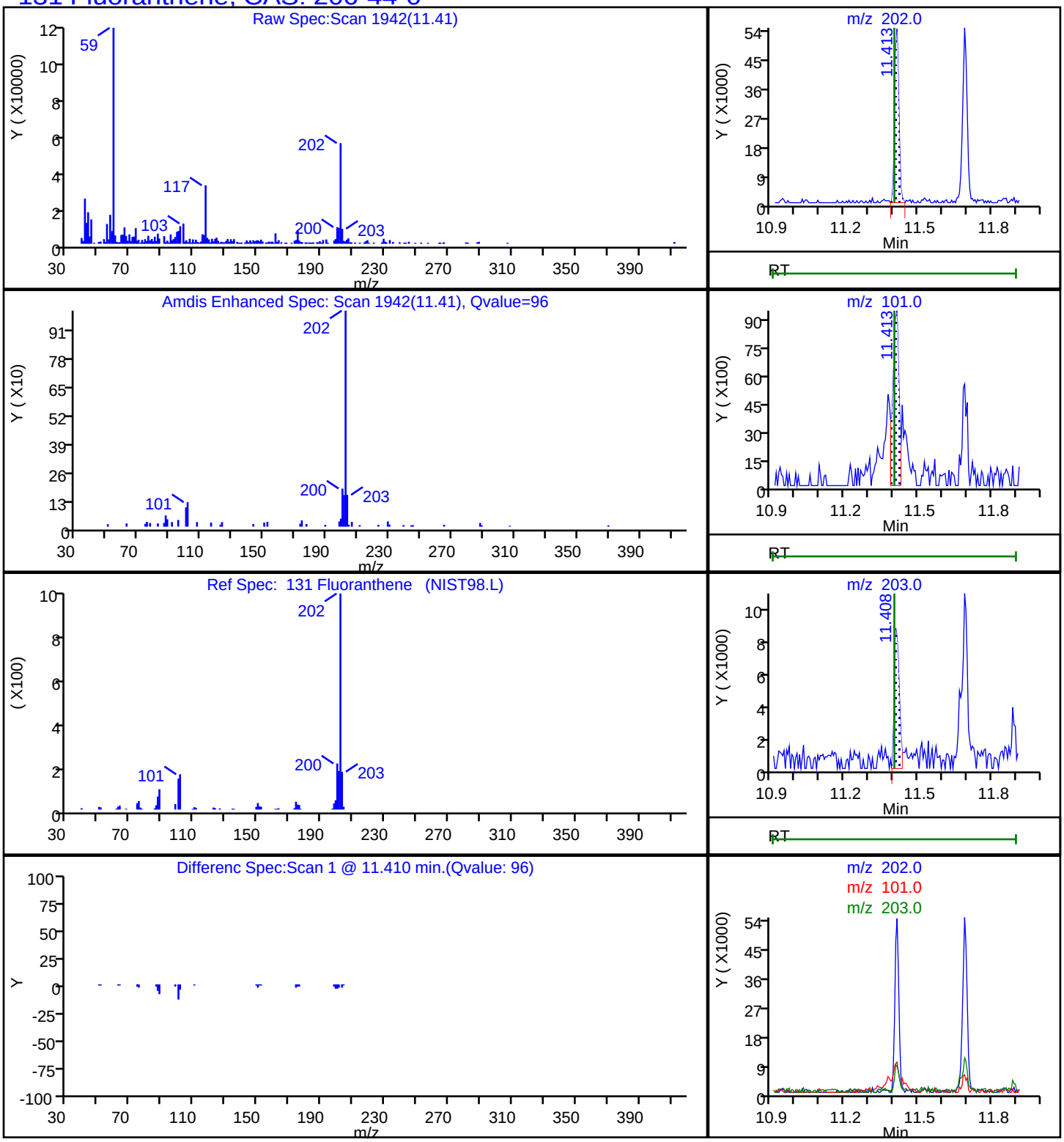


Report Date: 15-Oct-2018 09:17:35 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014022.D				
Injection Date:	14-Oct-2018 21:10:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-4-A	Lab Sample ID:	180-82446-4		
Client ID:	POS-SED-R14-S2 (5-10')				
Operator ID:	001562	ALS Bottle#:	21	Worklist Smp#:	22
Injection Vol:	2.0 ul	Dil. Factor:	4.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

131 Fluoranthene, CAS: 206-44-0

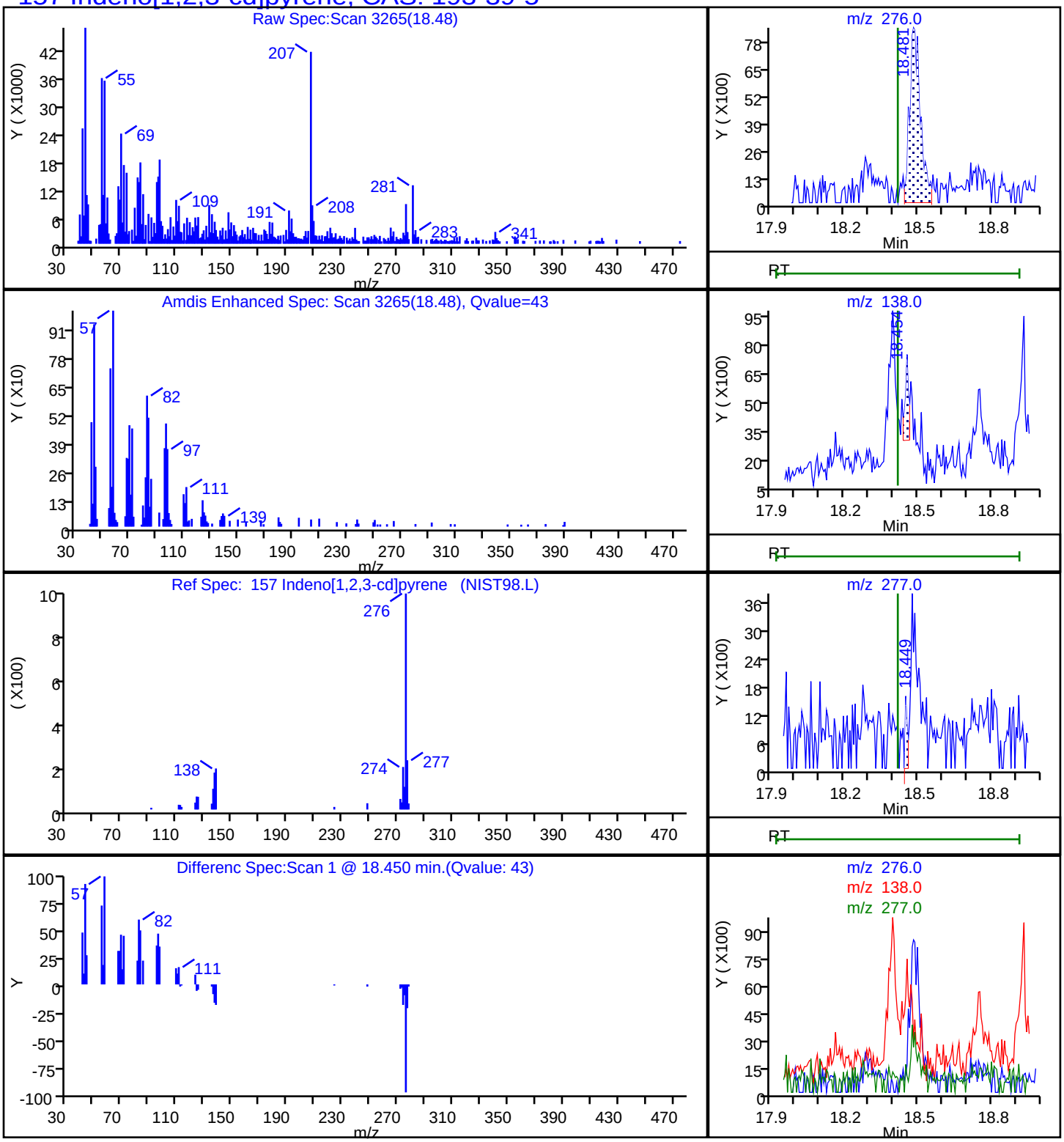


Report Date: 15-Oct-2018 09:17:35 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014022.D				
Injection Date:	14-Oct-2018 21:10:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-4-A	Lab Sample ID:	180-82446-4		
Client ID:	POS-SED-R14-S2 (5-10')				
Operator ID:	001562	ALS Bottle#:	21	Worklist Smp#:	22
Injection Vol:	2.0 ul	Dil. Factor:	4.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

157 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

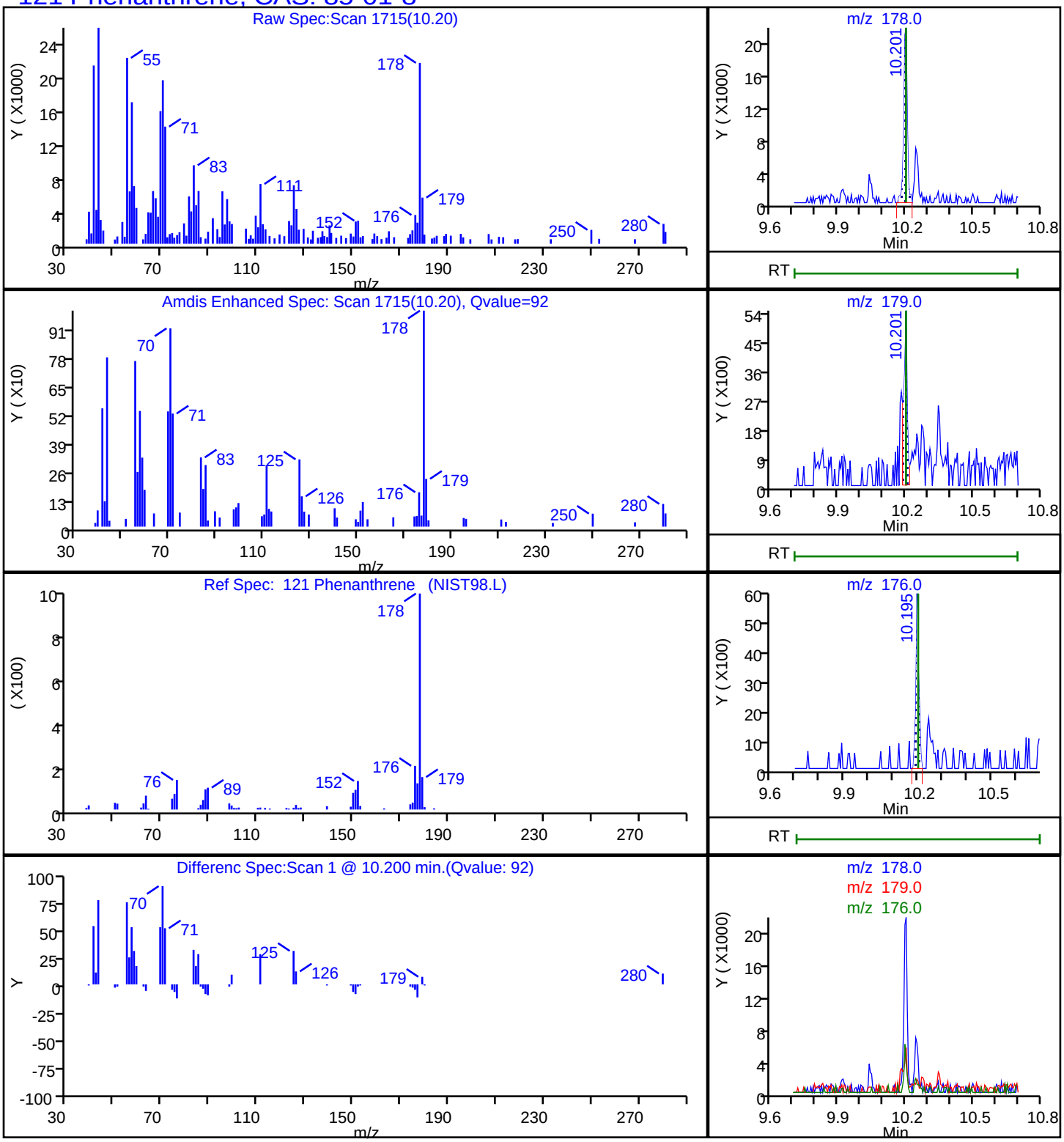


Report Date: 15-Oct-2018 09:17:34 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014022.D				
Injection Date:	14-Oct-2018 21:10:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-4-A	Lab Sample ID:	180-82446-4		
Client ID:	POS-SED-R14-S2 (5-10')				
Operator ID:	001562	ALS Bottle#:	21	Worklist Smp#:	22
Injection Vol:	2.0 ul	Dil. Factor:	4.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

121 Phenanthrene, CAS: 85-01-8

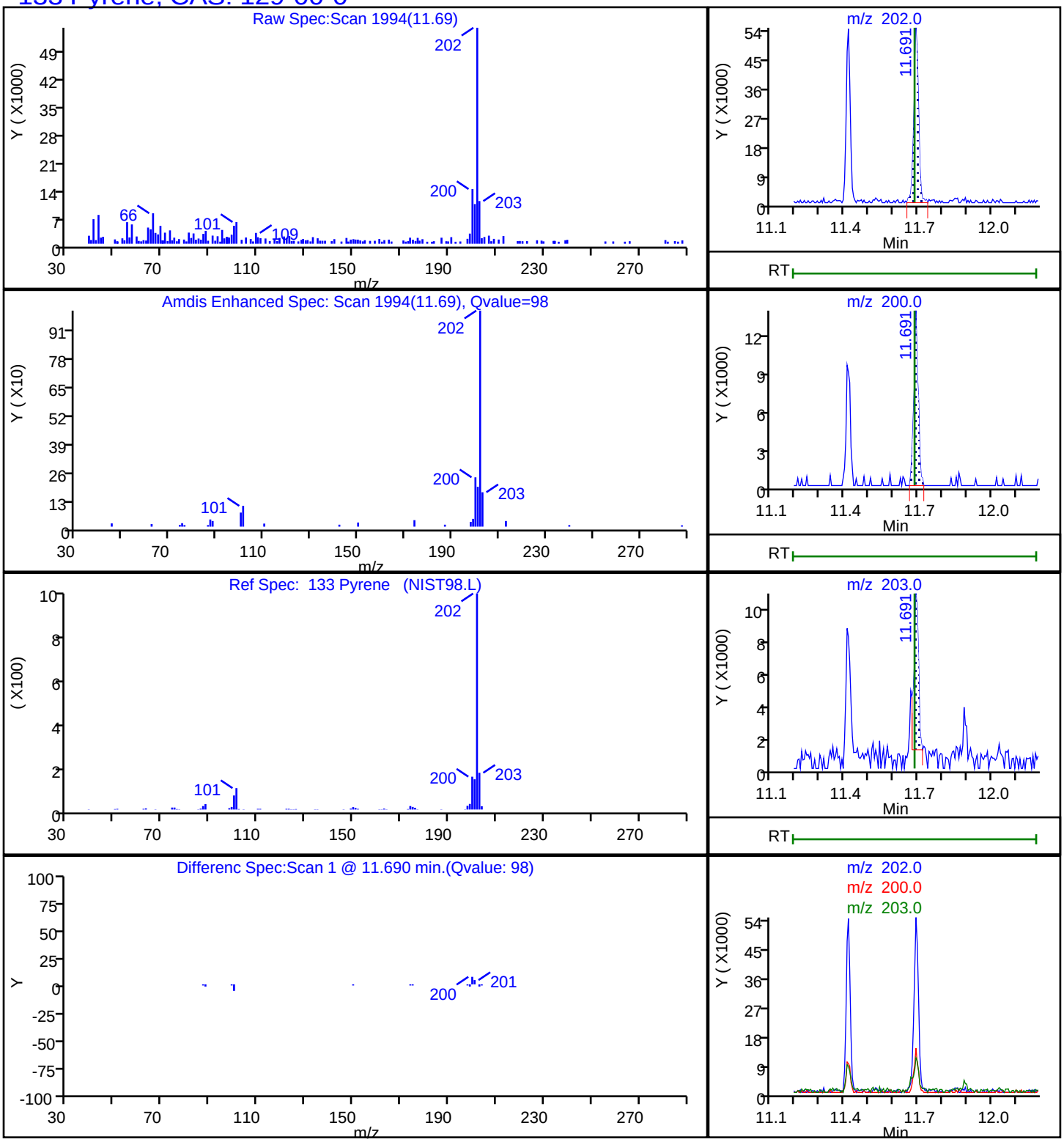


Report Date: 15-Oct-2018 09:17:35 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014022.D				
Injection Date:	14-Oct-2018 21:10:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-4-A	Lab Sample ID:	180-82446-4		
Client ID:	POS-SED-R14-S2 (5-10')				
Operator ID:	001562	ALS Bottle#:	21	Worklist Smp#:	22
Injection Vol:	2.0 ul	Dil. Factor:	4.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

133 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

TestAmerica Pittsburgh

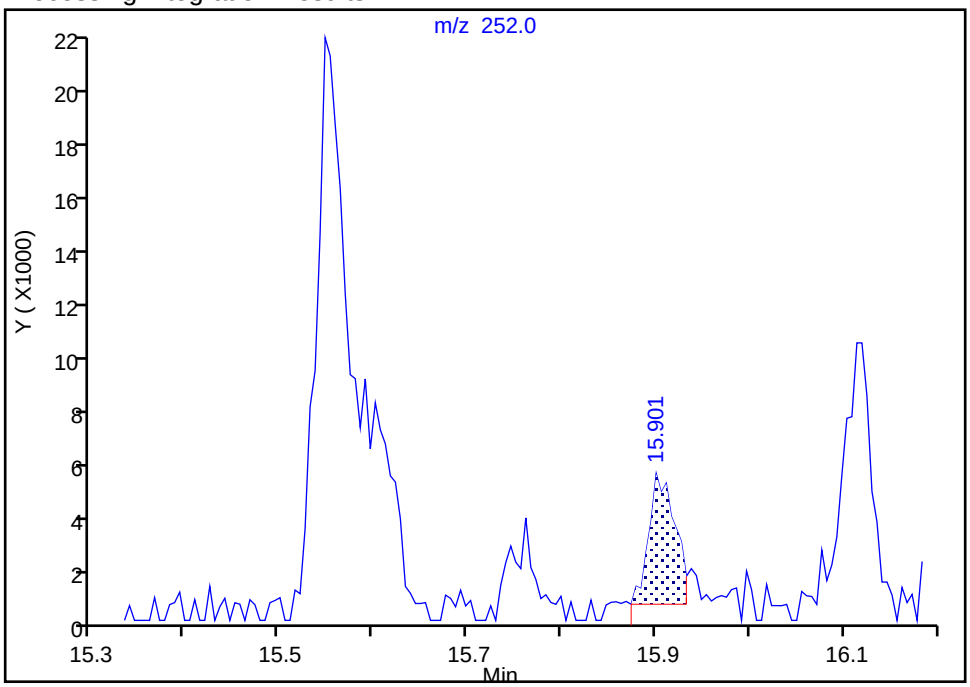
Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014022.D				
Injection Date:	14-Oct-2018 21:10:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-4-A	Lab Sample ID:	180-82446-4		
Client ID:	POS-SED-R14-S2 (5-10')				
Operator ID:	001562	ALS Bottle#:	21	Worklist Smp#:	22
Injection Vol:	2.0 ul	Dil. Factor:	4.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

153 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

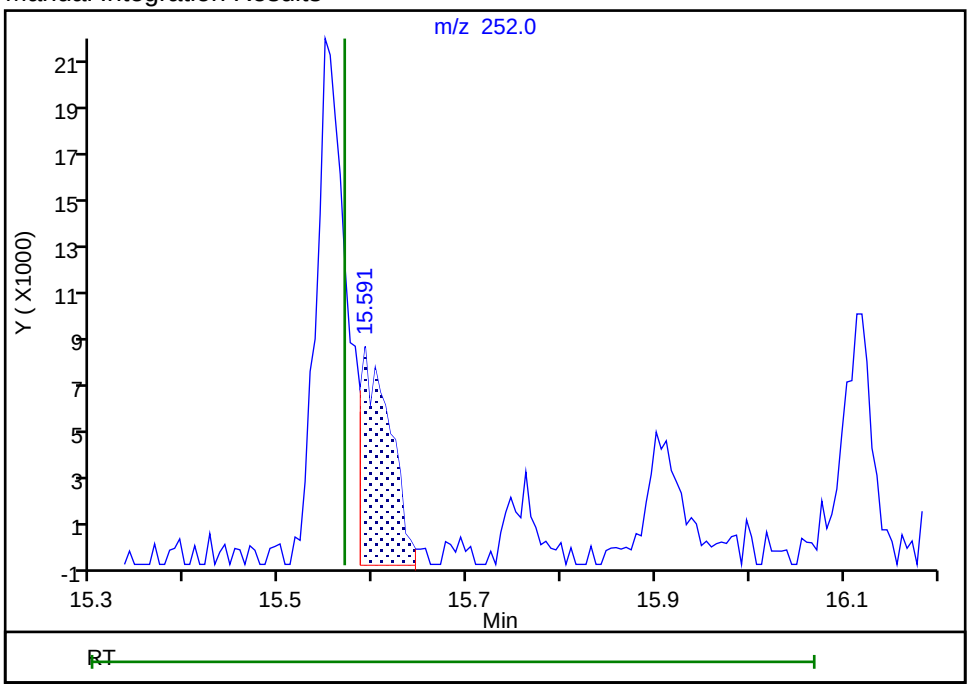
Processing Integration Results

RT: 15.90
Area: 9310
Amount: 0.100915
Amount Units: ng



Manual Integration Results

RT: 15.59
Area: 19673
Amount: 0.213245
Amount Units: ng



Reviewer: fergusond, 15-Oct-2018 09:16:01

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pittsburgh

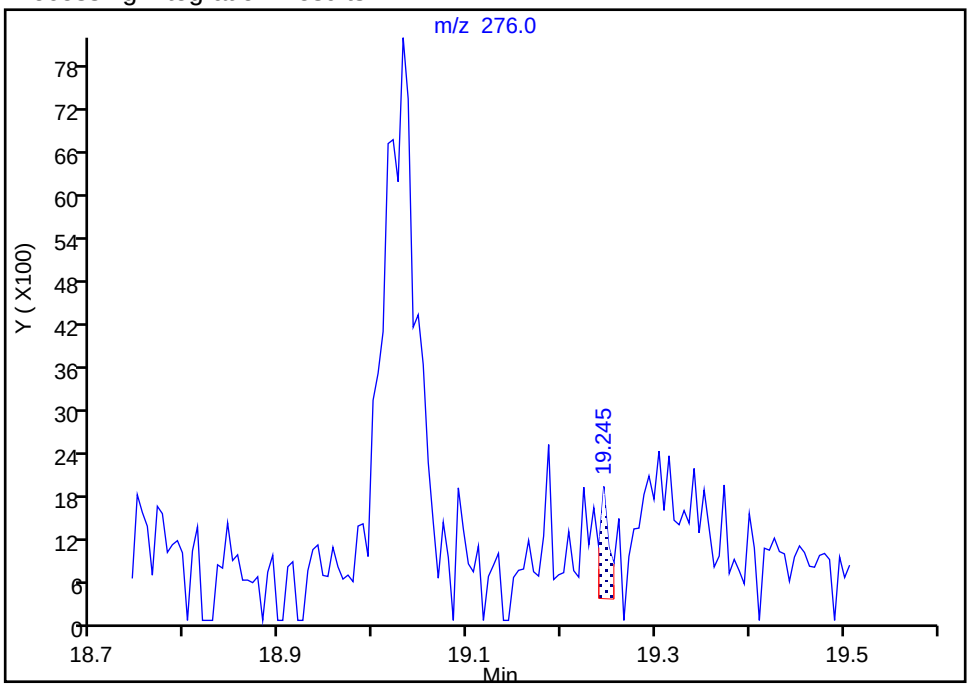
Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014022.D				
Injection Date:	14-Oct-2018 21:10:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-4-A	Lab Sample ID:	180-82446-4		
Client ID:	POS-SED-R14-S2 (5-10')				
Operator ID:	001562	ALS Bottle#:	21	Worklist Smp#:	22
Injection Vol:	2.0 ul	Dil. Factor:	4.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

159 Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

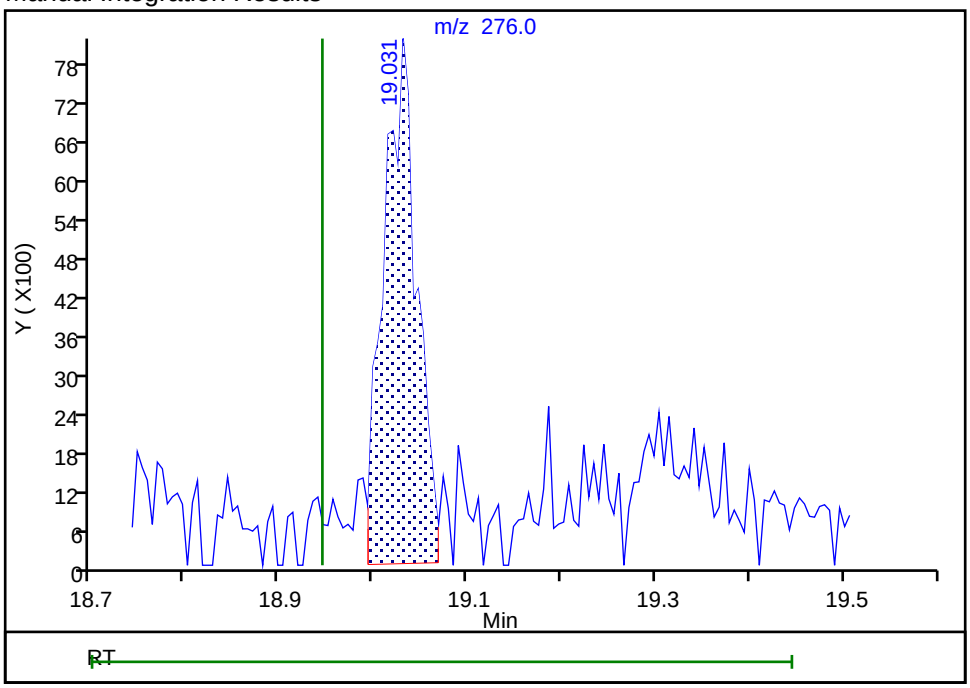
Processing Integration Results

RT: 19.24
Area: 1129
Amount: 0.013952
Amount Units: ng



Manual Integration Results

RT: 19.03
Area: 20053
Amount: 0.247803
Amount Units: ng



Reviewer: fergusond, 15-Oct-2018 09:17:24

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pittsburgh

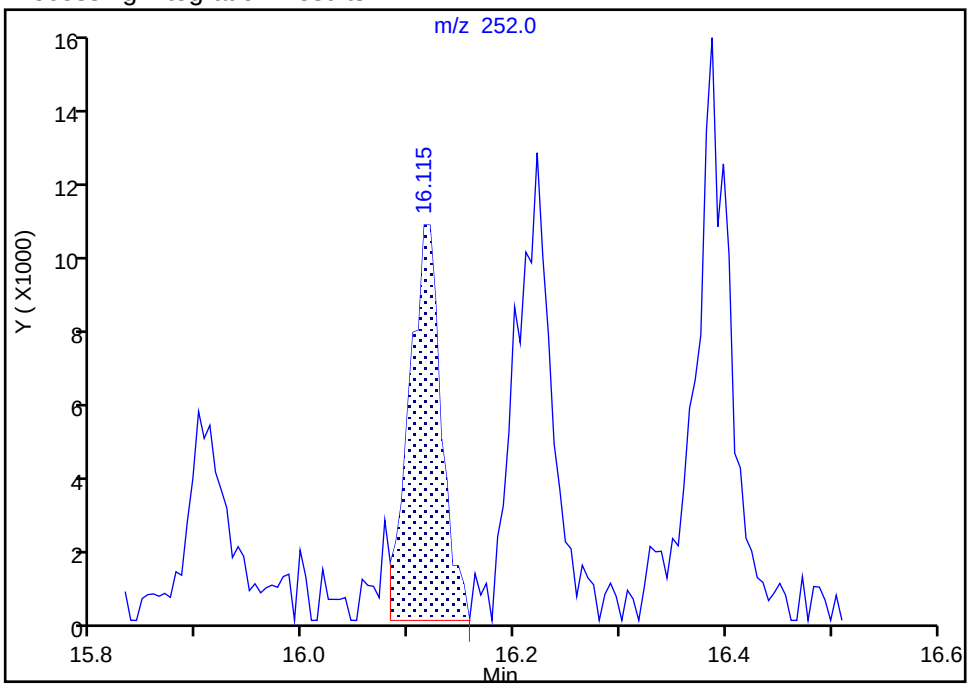
Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014022.D				
Injection Date:	14-Oct-2018 21:10:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-4-A	Lab Sample ID:	180-82446-4		
Client ID:	POS-SED-R14-S2 (5-10')				
Operator ID:	001562	ALS Bottle#:	21	Worklist Smp#:	22
Injection Vol:	2.0 ul	Dil. Factor:	4.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

154 Benzo[a]pyrene, CAS: 50-32-8

Signal: 1

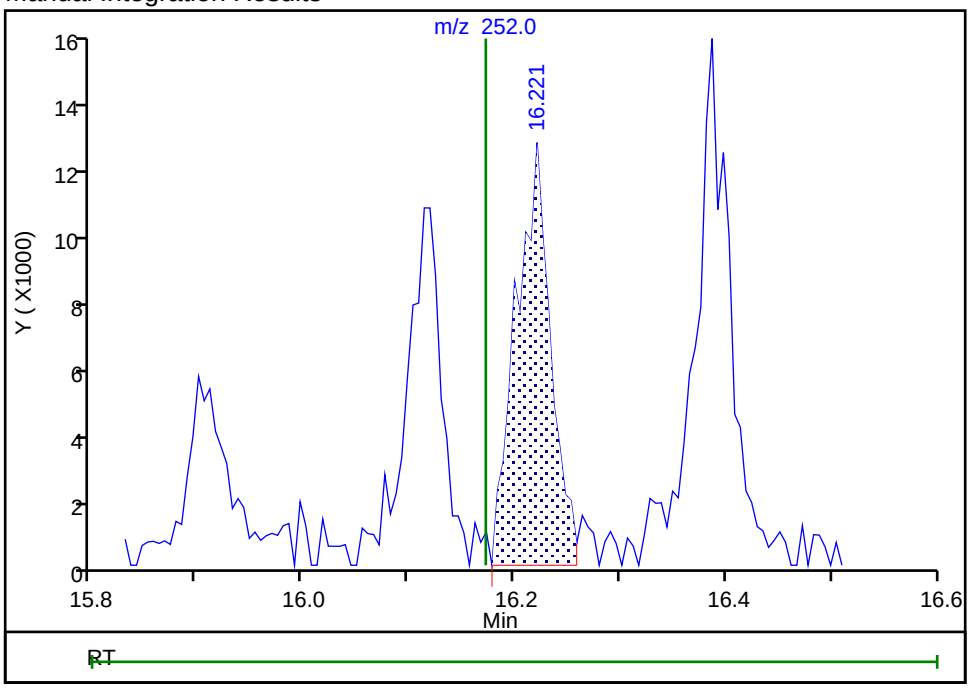
Processing Integration Results

RT: 16.11
Area: 21740
Amount: 0.254057
Amount Units: ng



Manual Integration Results

RT: 16.22
Area: 27420
Amount: 0.320435
Amount Units: ng



Reviewer: fergusond, 15-Oct-2018 09:16:10
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pittsburgh

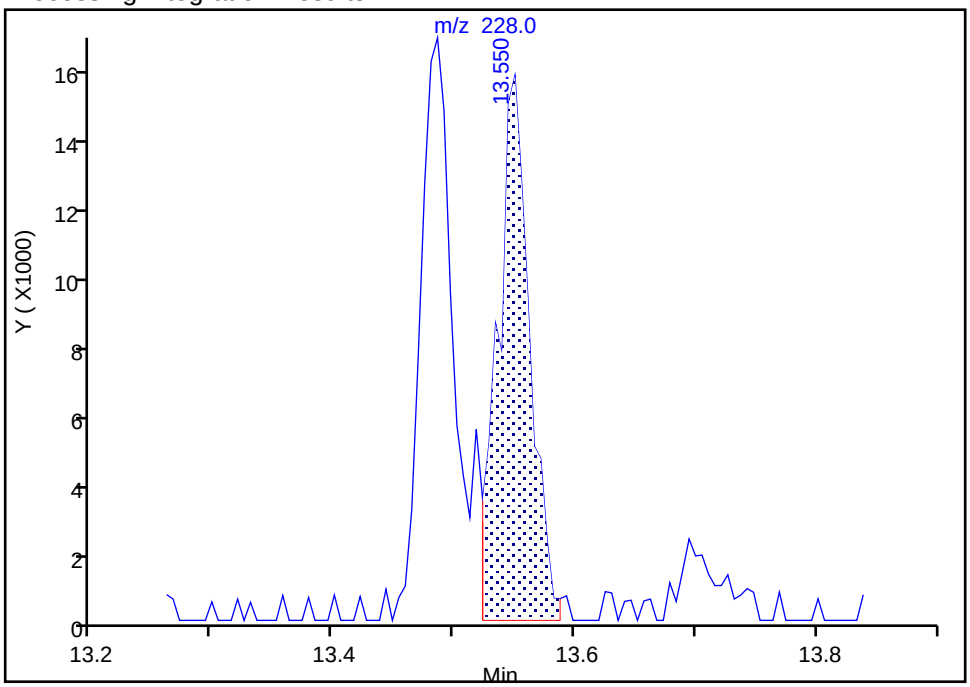
Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014022.D				
Injection Date:	14-Oct-2018 21:10:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-4-A	Lab Sample ID:	180-82446-4		
Client ID:	POS-SED-R14-S2 (5-10')				
Operator ID:	001562	ALS Bottle#:	21	Worklist Smp#:	22
Injection Vol:	2.0 ul	Dil. Factor:	4.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

147 Chrysene, CAS: 218-01-9

Signal: 1

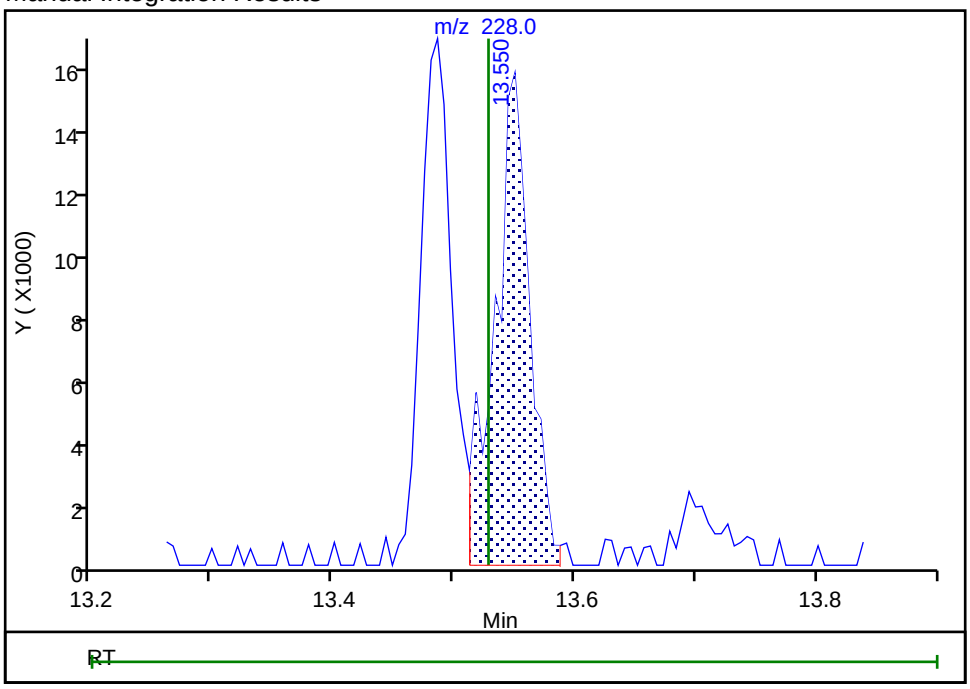
Processing Integration Results

RT: 13.55
Area: 28639
Amount: 0.319936
Amount Units: ng



Manual Integration Results

RT: 13.55
Area: 31316
Amount: 0.349841
Amount Units: ng



Reviewer: fergusond, 15-Oct-2018 09:15:22

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

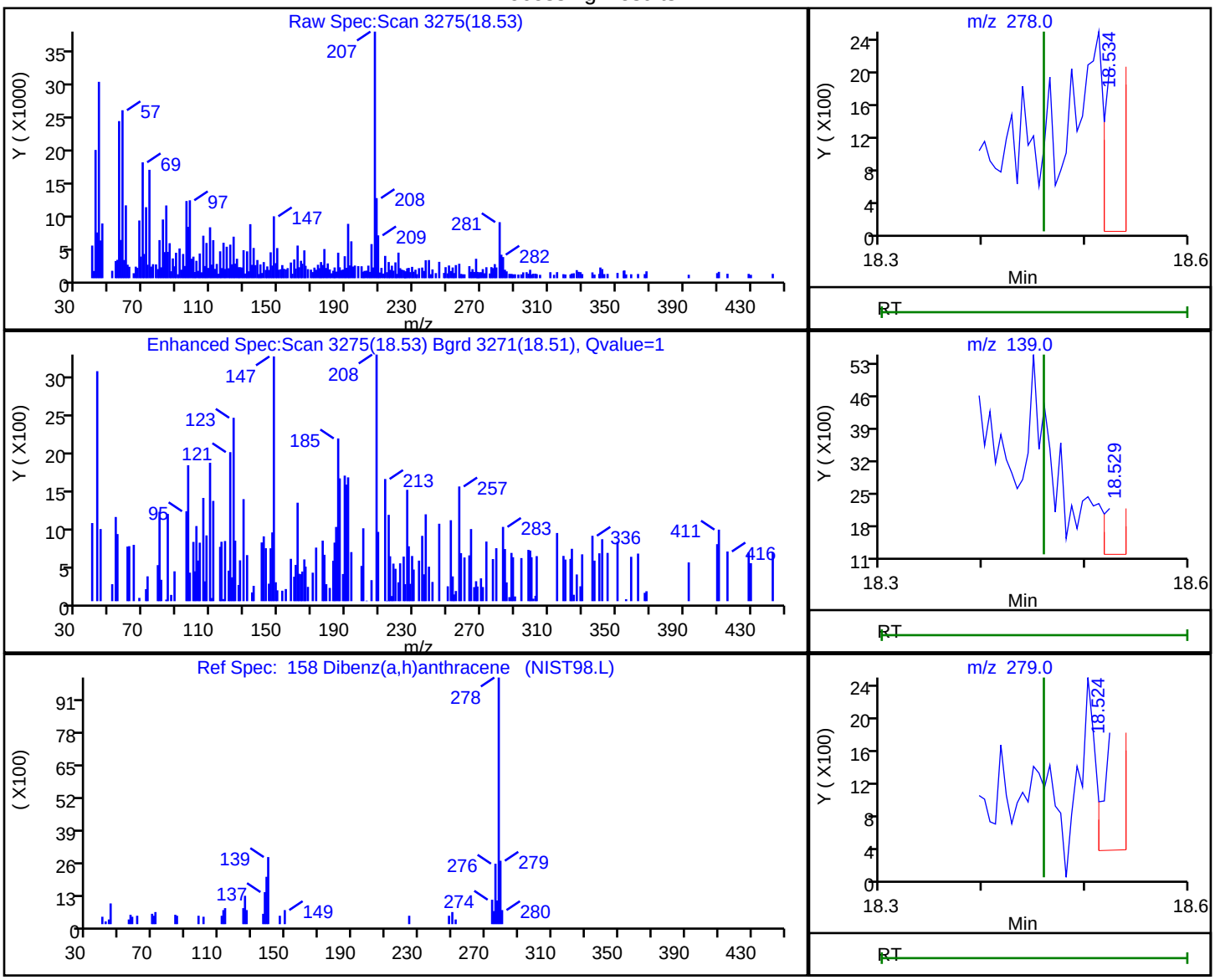
User Disabled Compound Report

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014022.D				
Injection Date:	14-Oct-2018 21:10:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-4-A	Lab Sample ID:	180-82446-4		
Client ID:	POS-SED-R14-S2 (5-10')				
Operator ID:	001562	ALS Bottle#:	21	Worklist Smp#:	22
Injection Vol:	2.0 ul	Dil. Factor:	4.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

158 Dibenz(a,h)anthracene, CAS: 53-70-3

Processing Results



RT	Mass	Response	Amount
18.53	278.00	2722	0.032849
18.53	139.00	1337	
18.52	279.00	1726	

Reviewer: fergusond, 15-Oct-2018 09:16:55

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Pittsburgh

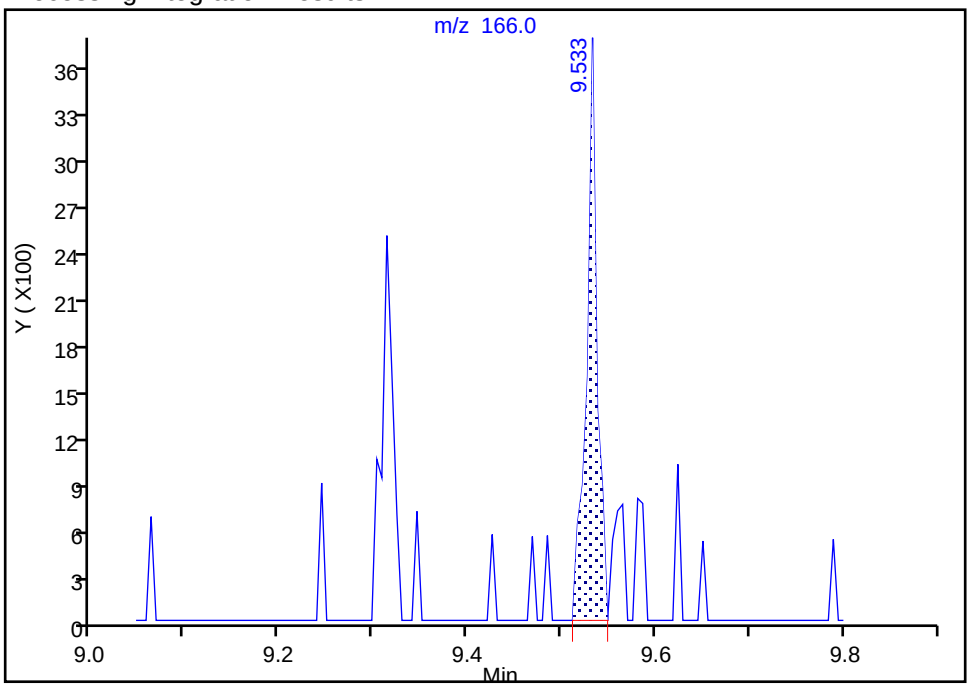
Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014022.D				
Injection Date:	14-Oct-2018 21:10:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-4-A	Lab Sample ID:	180-82446-4		
Client ID:	POS-SED-R14-S2 (5-10')				
Operator ID:	001562	ALS Bottle#:	21	Worklist Smp#:	22
Injection Vol:	2.0 ul	Dil. Factor:	4.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

103 Fluorene, CAS: 86-73-7

Signal: 1

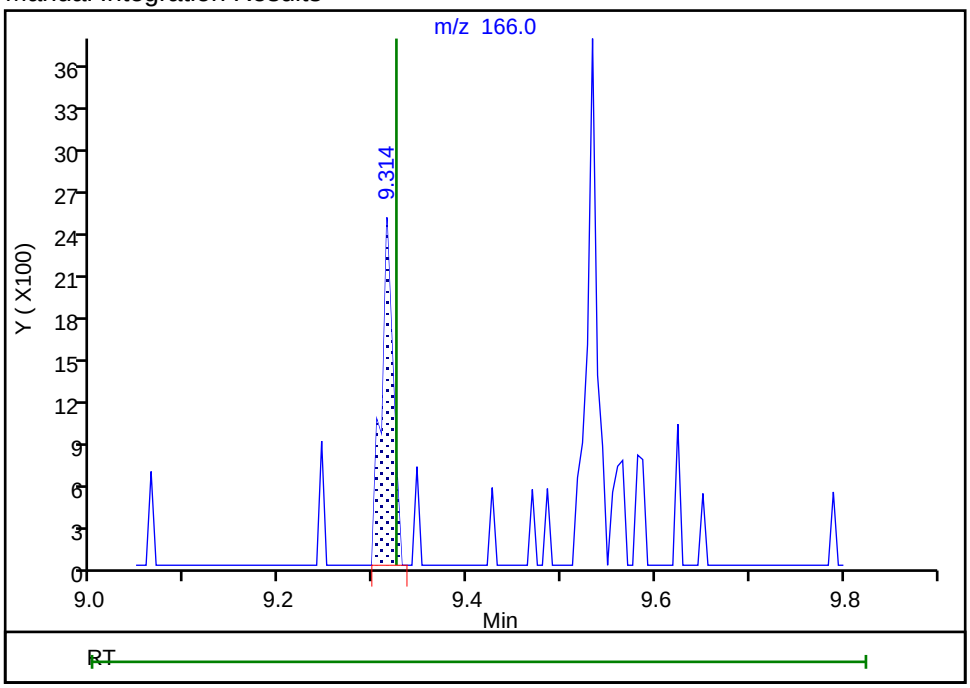
Processing Integration Results

RT: 9.53
Area: 2896
Amount: 0.061292
Amount Units: ng



Manual Integration Results

RT: 9.31
Area: 2152
Amount: 0.045546
Amount Units: ng



Reviewer: fergusond, 15-Oct-2018 09:12:41
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Pittsburgh

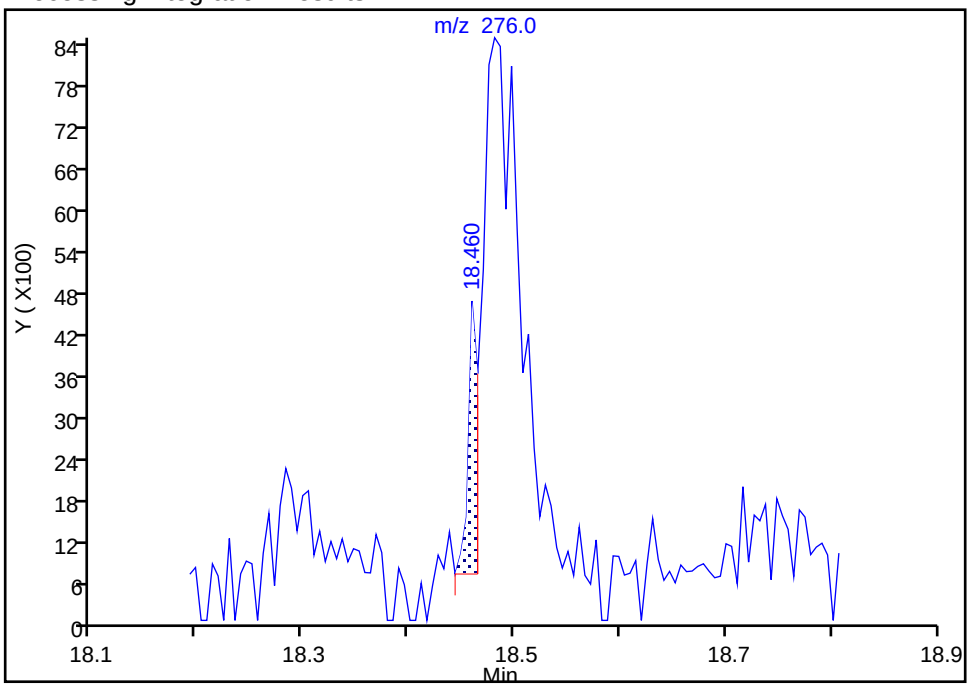
Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014022.D				
Injection Date:	14-Oct-2018 21:10:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-4-A	Lab Sample ID:	180-82446-4		
Client ID:	POS-SED-R14-S2 (5-10')				
Operator ID:	001562	ALS Bottle#:	21	Worklist Smp#:	22
Injection Vol:	2.0 ul	Dil. Factor:	4.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

157 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

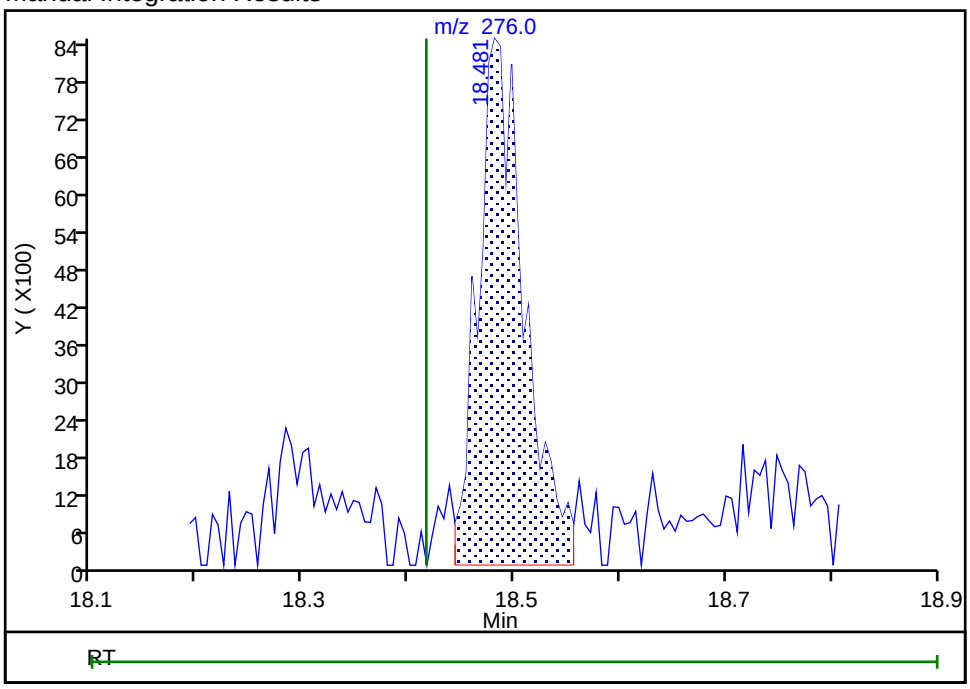
Processing Integration Results

RT: 18.46
Area: 2566
Amount: 0.026178
Amount Units: ng



Manual Integration Results

RT: 18.48
Area: 25609
Amount: 0.261258
Amount Units: ng



Reviewer: fergusond, 15-Oct-2018 09:16:43

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pittsburgh

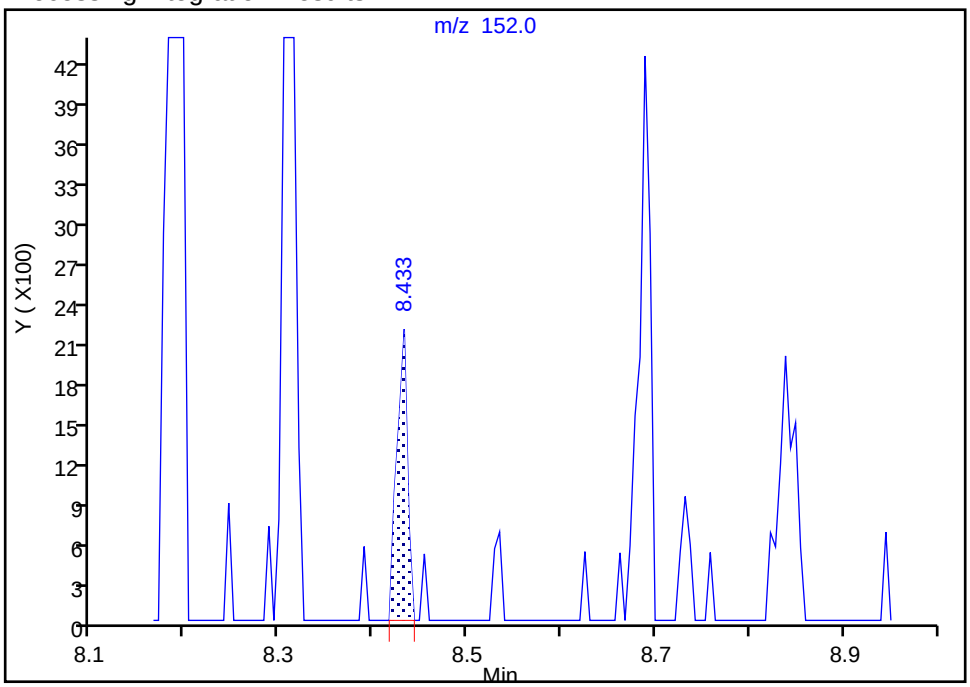
Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014022.D				
Injection Date:	14-Oct-2018 21:10:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-4-A	Lab Sample ID:	180-82446-4		
Client ID:	POS-SED-R14-S2 (5-10')				
Operator ID:	001562	ALS Bottle#:	21	Worklist Smp#:	22
Injection Vol:	2.0 ul	Dil. Factor:	4.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

85 Acenaphthylene, CAS: 208-96-8

Signal: 1

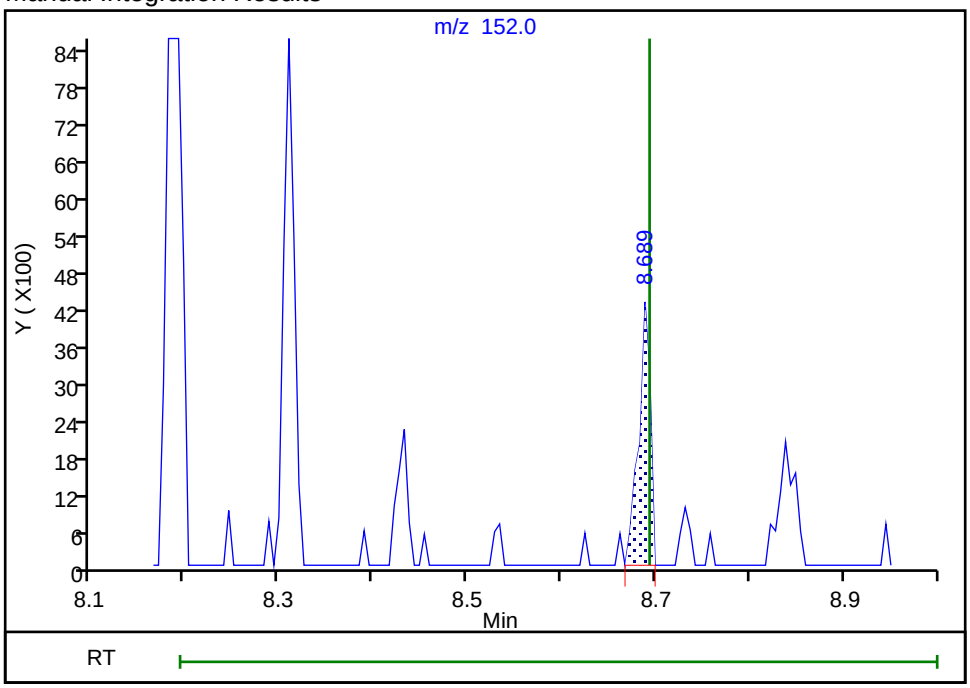
Processing Integration Results

RT: 8.43
Area: 1729
Amount: 0.030048
Amount Units: ng



Manual Integration Results

RT: 8.69
Area: 3615
Amount: 0.062824
Amount Units: ng



Reviewer: fergusond, 15-Oct-2018 09:12:04

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh
Job No.: 180-82446-1
SDG No.:
Client Sample ID: POS-SED-L15-S1 (0-0.5')
Lab Sample ID: 180-82446-5
Matrix: Sediment
Lab File ID: S1014023.D
Analysis Method: EPA 8270D LL
Date Collected: 09/27/2018 15:20
Extract. Method: 3541
Date Extracted: 10/08/2018 09:24
Sample wt/vol: 30.0(g)
Date Analyzed: 10/14/2018 21:38
Con. Extract Vol.: 0.5(mL)
Dilution Factor: 10
Injection Volume: 2(uL)
Level: (low/med) Low
% Moisture: 18.2
GPC Cleanup:(Y/N) N
Analysis Batch No.: 259751
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-12-7	Anthracene	69		41	11
56-55-3	Benzo[a]anthracene	240		41	7.7
205-99-2	Benzo[b]fluoranthene	360		41	10
207-08-9	Benzo[k]fluoranthene	140		41	12
191-24-2	Benzo[g,h,i]perylene	230		41	8.8
50-32-8	Benzo[a]pyrene	280		41	8.9
218-01-9	Chrysene	300		41	8.0
53-70-3	Dibenz(a,h)anthracene	65		41	9.1
206-44-0	Fluoranthene	570		41	11
86-73-7	Fluorene	16	J	41	8.0
193-39-5	Indeno[1,2,3-cd]pyrene	190		41	8.3
85-01-8	Phenanthrene	200		41	11
129-00-0	Pyrene	440		41	9.7
83-32-9	Acenaphthene	21	J	41	12
208-96-8	Acenaphthylene	35	J	41	8.9
91-20-3	Naphthalene	7.9	U	41	7.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5 (Surr)	71		39-105
321-60-8	2-Fluorobiphenyl	71		39-105
1718-51-0	Terphenyl-d14 (Surr)	62		28-148

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014023.D				
Lims ID:	180-82446-B-5-B				
Client ID:	POS-SED-L15-S1 (0-0.5')				
Sample Type:	Client				
Inject. Date:	14-Oct-2018 21:38:30	ALS Bottle#:	22	Worklist Smp#:	23
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Sample Info:	180-0024080-023				
Misc. Info.:	180-82446-B-5-B				
Operator ID:	001562	Instrument ID:	CH71		
Method:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\BNA_CH71.m				
Limit Group:	BNA 8270D ICAL				
Last Update:	15-Oct-2018 09:17:33	Calib Date:	16-Apr-2018 17:33:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416021.D				
Column 1 :	Rxi-5SilMS (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK017				

First Level Reviewer: fergusond Date: 15-Oct-2018 09:18:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.004	5.998	0.006	95	130453	8.00	
* 2 Naphthalene-d8	136	7.206	7.205	0.001	100	492082	8.00	
* 3 Acenaphthene-d10	164	8.820	8.819	0.001	92	262807	8.00	
* 4 Phenanthrene-d10	188	10.182	10.176	0.006	96	509800	8.00	
* 5 Chrysene-d12	240	13.516	13.477	0.039	97	648308	8.00	
* 6 Perylene-d12	264	16.352	16.298	0.054	99	604829	8.00	
$ 9 Nitrobenzene-d5	82	6.528	6.535	-0.002	91	64031	2.84	
$ 10 2-Fluorobiphenyl	172	8.189	8.197	-0.008	100	153753	2.83	
$ 12 Terphenyl-d14	244	11.859	11.846	0.013	99	170890	2.46	
58 Naphthalene	128	7.228	7.220	-0.002	93	5035	0.0755	
85 Acenaphthylene	152	8.692	8.689	-0.002	97	19928	0.3401	
88 Acenaphthene	153	8.852	8.859	-0.002	90	8216	0.2064	
103 Fluorene	166	9.317	9.314	-0.007	96	7501	0.1559	
121 Phenanthrene	178	10.203	10.205	0.003	96	136350	2.01	
122 Anthracene	178	10.251	10.258	0.003	96	46189	0.6789	
131 Fluoranthene	202	11.421	11.423	0.019	96	460111	5.57	
133 Pyrene	202	11.705	11.693	0.020	98	418244	4.33	
146 Benzo[a]anthracene	228	13.494	13.504	0.035	97	230631	2.38	
147 Chrysene	228	13.564	13.550	0.036	95	269841	2.97	
152 Benzo[b]fluoranthene	252	15.572	15.595	0.062	96	378239	3.49	
153 Benzo[k]fluoranthene	252	15.620	15.591	0.051	96	129951	1.33	
154 Benzo[a]pyrene	252	16.235	16.221	0.062	74	249601	2.75	
157 Indeno[1,2,3-cd]pyrene	276	18.510	18.481	0.094	97	193485	1.86	
158 Dibenz(a,h)anthracene	278	18.542	18.539	0.083	84	55825	0.6352	
159 Benzo[g,h,i]perylene	276	19.055	19.031	0.110	96	196721	2.29	

Reagents:

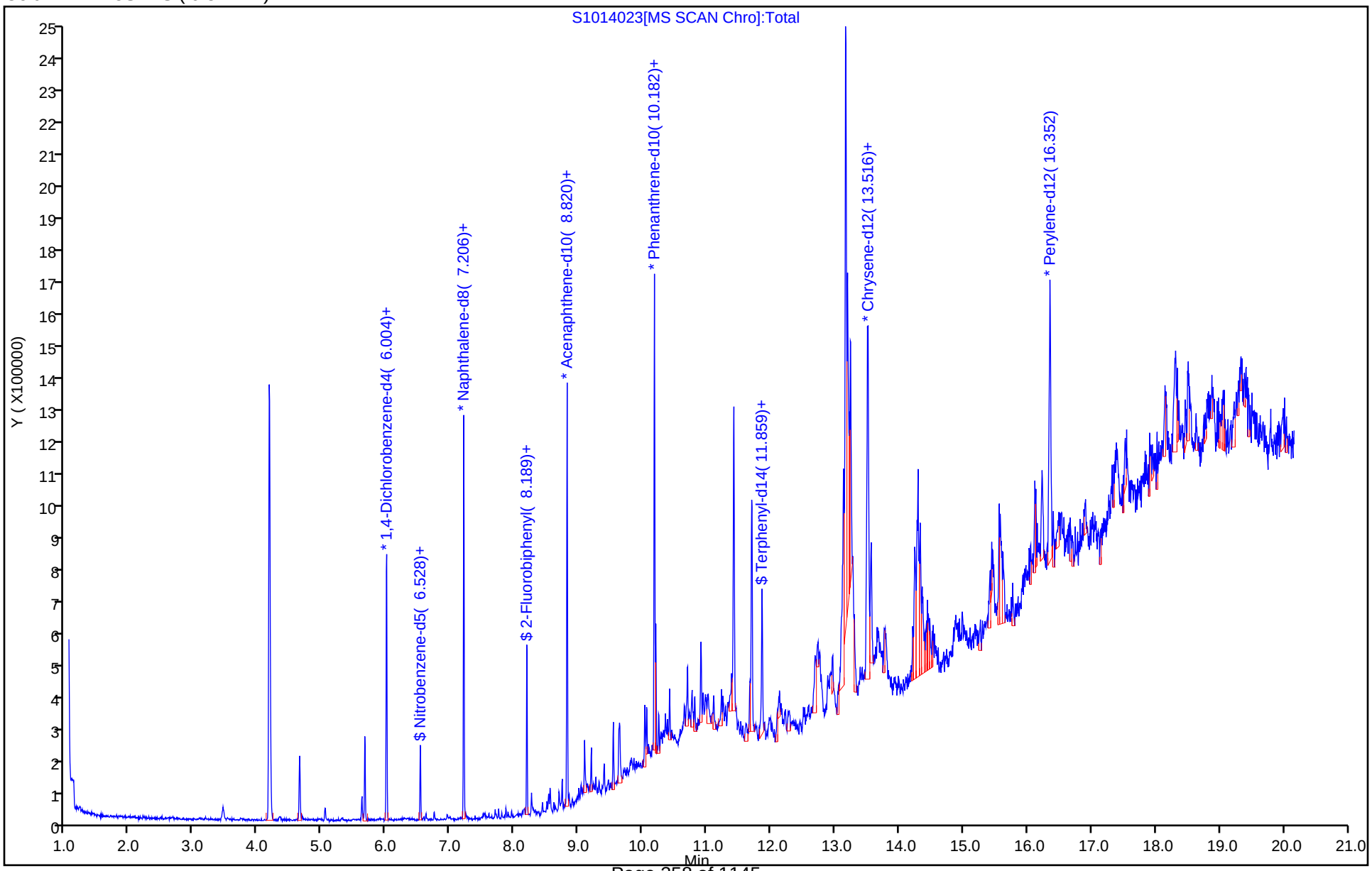
SVTAPITINTRNi_00018 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 15-Oct-2018 09:18:24 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014023.D				
Injection Date:	14-Oct-2018 21:38:30	Instrument ID:	CH71	Operator ID:	001562
Lims ID:	180-82446-B-5-B	Lab Sample ID:	180-82446-5	Worklist Smp#:	23
Client ID:	POS-SED-L15-S1 (0-0.5')				
Injection Vol:	2.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	22
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)

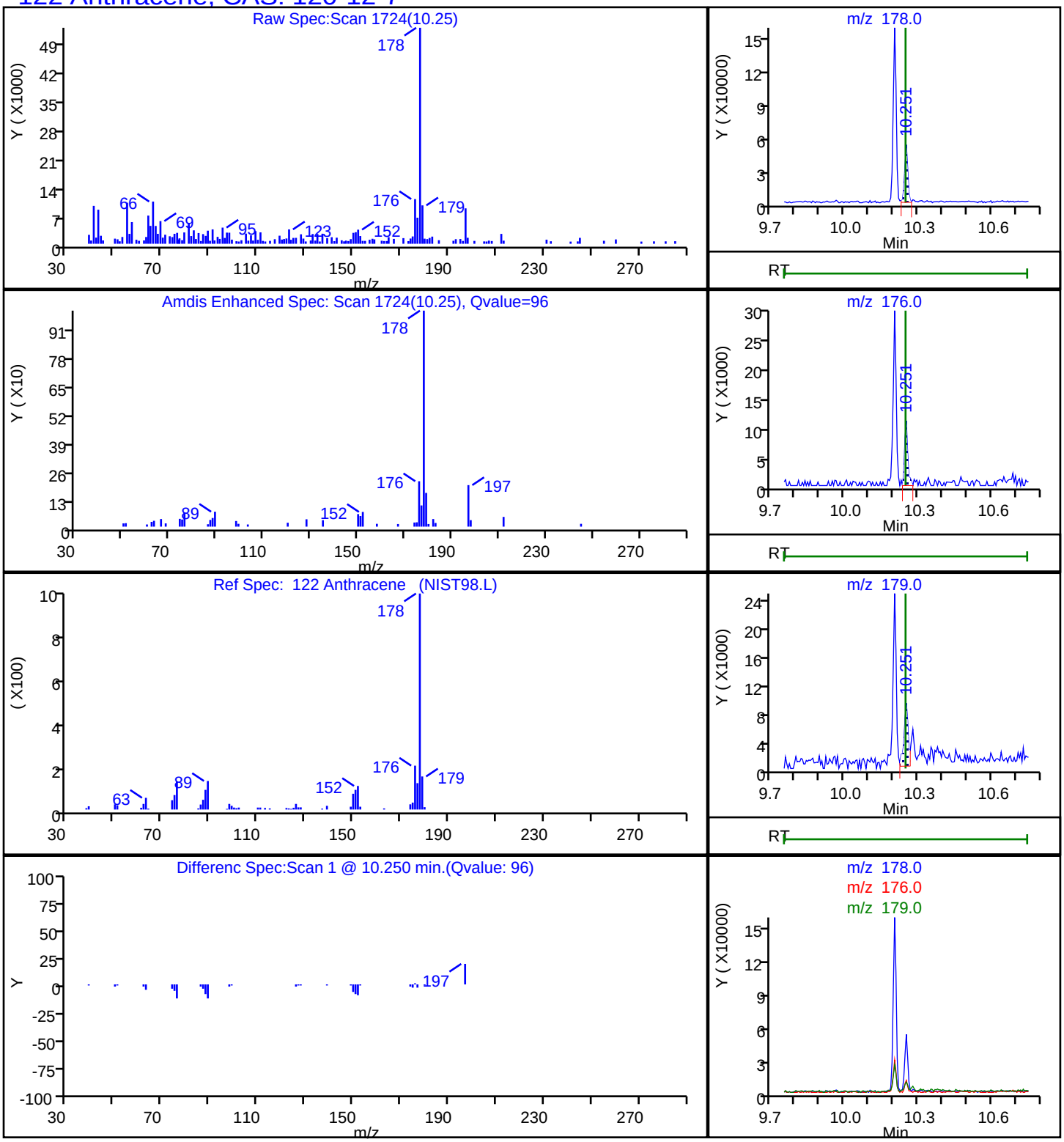


Report Date: 15-Oct-2018 09:18:24 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014023.D				
Injection Date:	14-Oct-2018 21:38:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-5-B	Lab Sample ID:	180-82446-5		
Client ID:	POS-SED-L15-S1 (0-0.5')				
Operator ID:	001562	ALS Bottle#:	22	Worklist Smp#:	23
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

122 Anthracene, CAS: 120-12-7

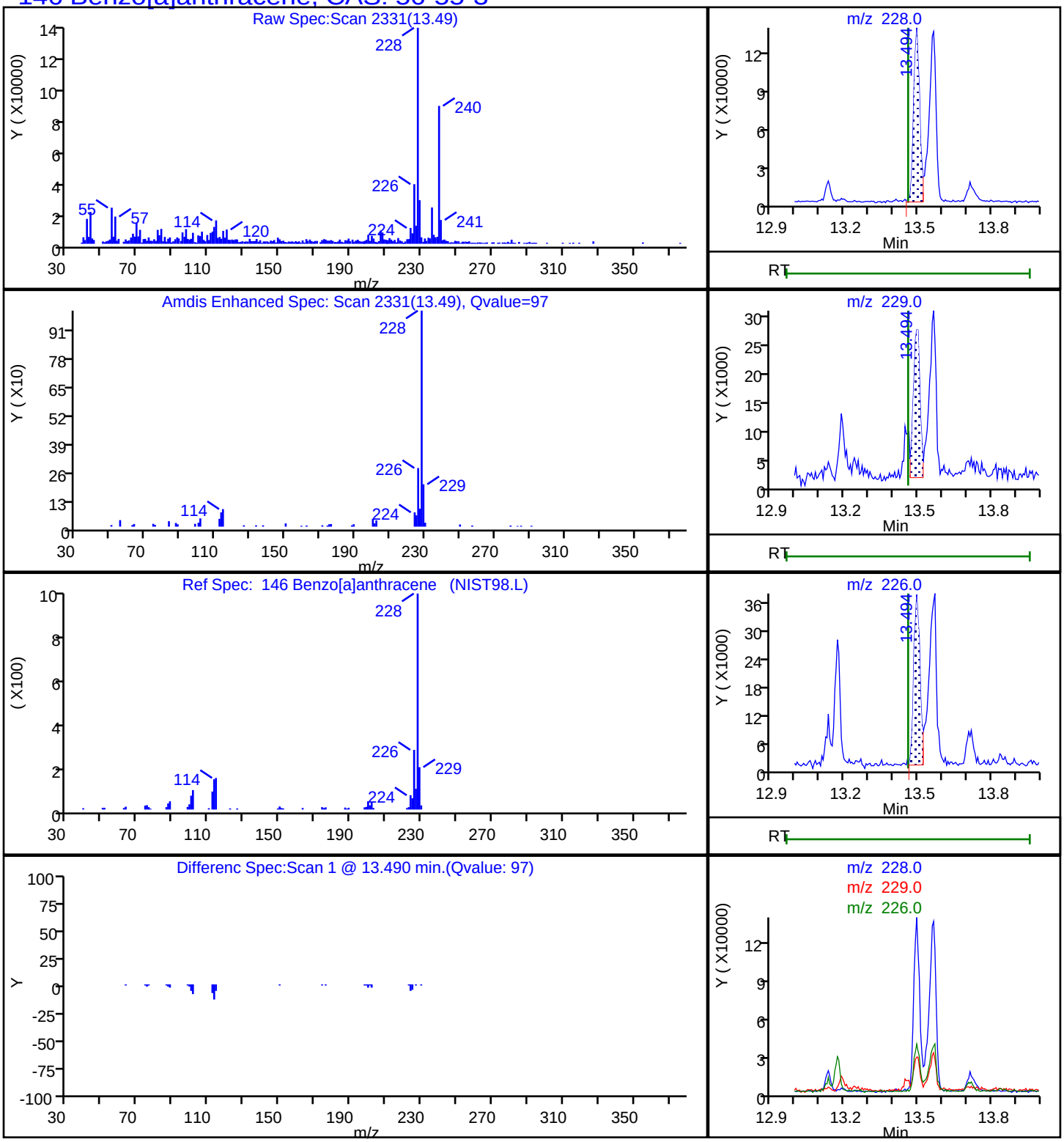


Report Date: 15-Oct-2018 09:18:24 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014023.D				
Injection Date:	14-Oct-2018 21:38:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-5-B	Lab Sample ID:	180-82446-5		
Client ID:	POS-SED-L15-S1 (0-0.5')				
Operator ID:	001562	ALS Bottle#:	22	Worklist Smp#:	23
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

146 Benzo[a]anthracene, CAS: 56-55-3

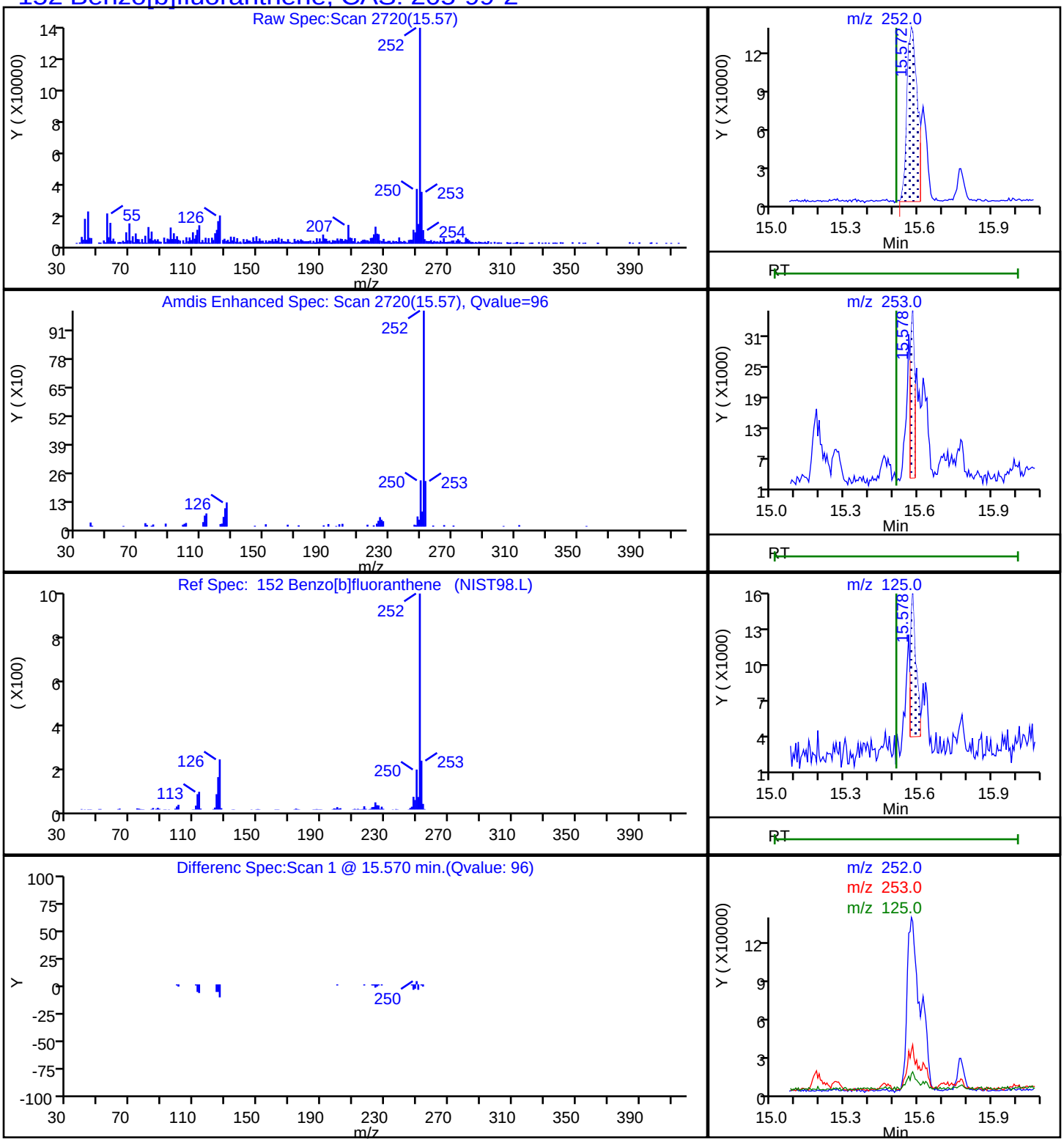


Report Date: 15-Oct-2018 09:18:24 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014023.D				
Injection Date:	14-Oct-2018 21:38:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-5-B	Lab Sample ID:	180-82446-5		
Client ID:	POS-SED-L15-S1 (0-0.5')				
Operator ID:	001562	ALS Bottle#:	22	Worklist Smp#:	23
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

152 Benzo[b]fluoranthene, CAS: 205-99-2

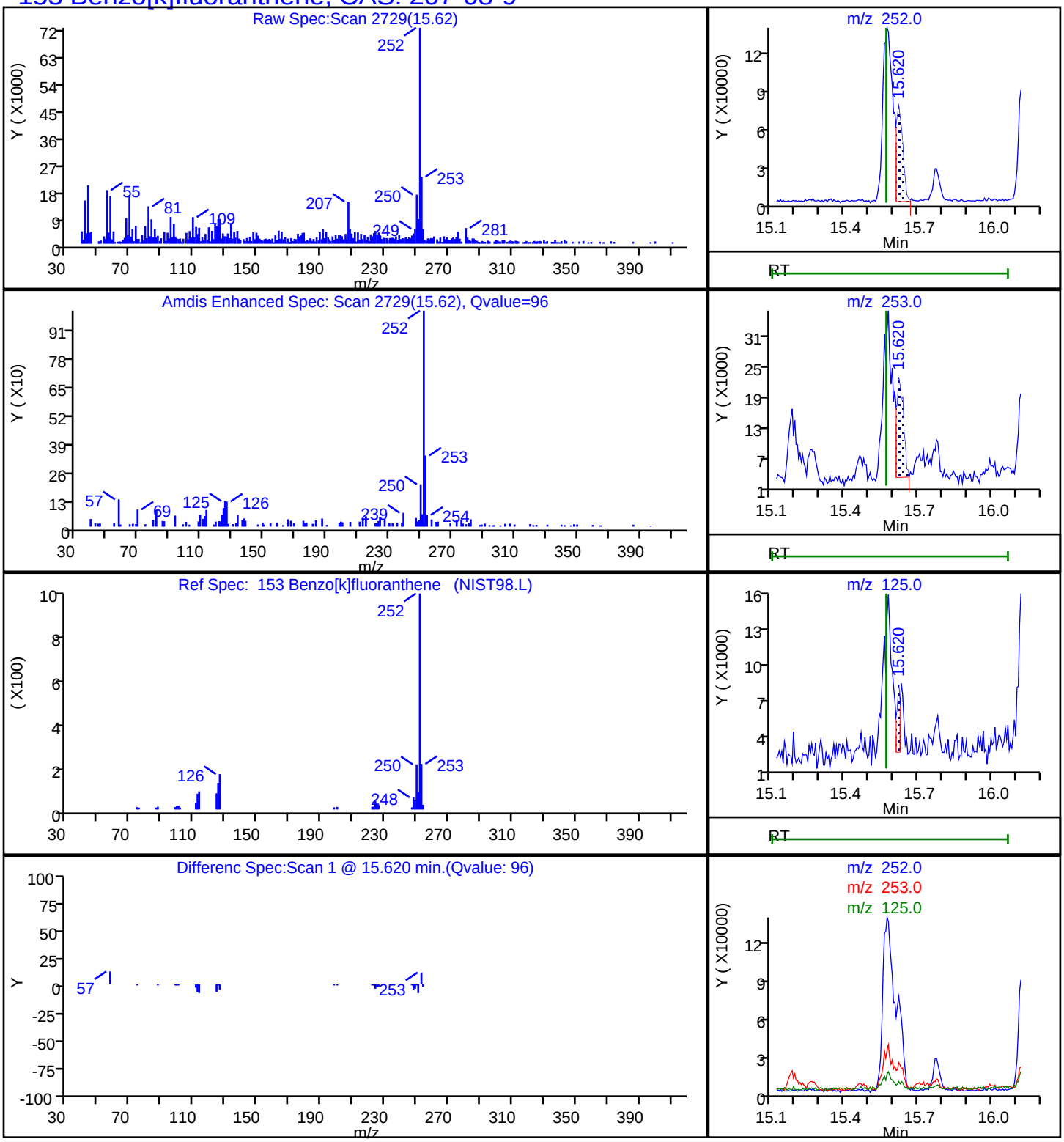


Report Date: 15-Oct-2018 09:18:24 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014023.D				
Injection Date:	14-Oct-2018 21:38:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-5-B	Lab Sample ID:	180-82446-5		
Client ID:	POS-SED-L15-S1 (0-0.5')				
Operator ID:	001562	ALS Bottle#:	22	Worklist Smp#:	23
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

153 Benzo[k]fluoranthene, CAS: 207-08-9

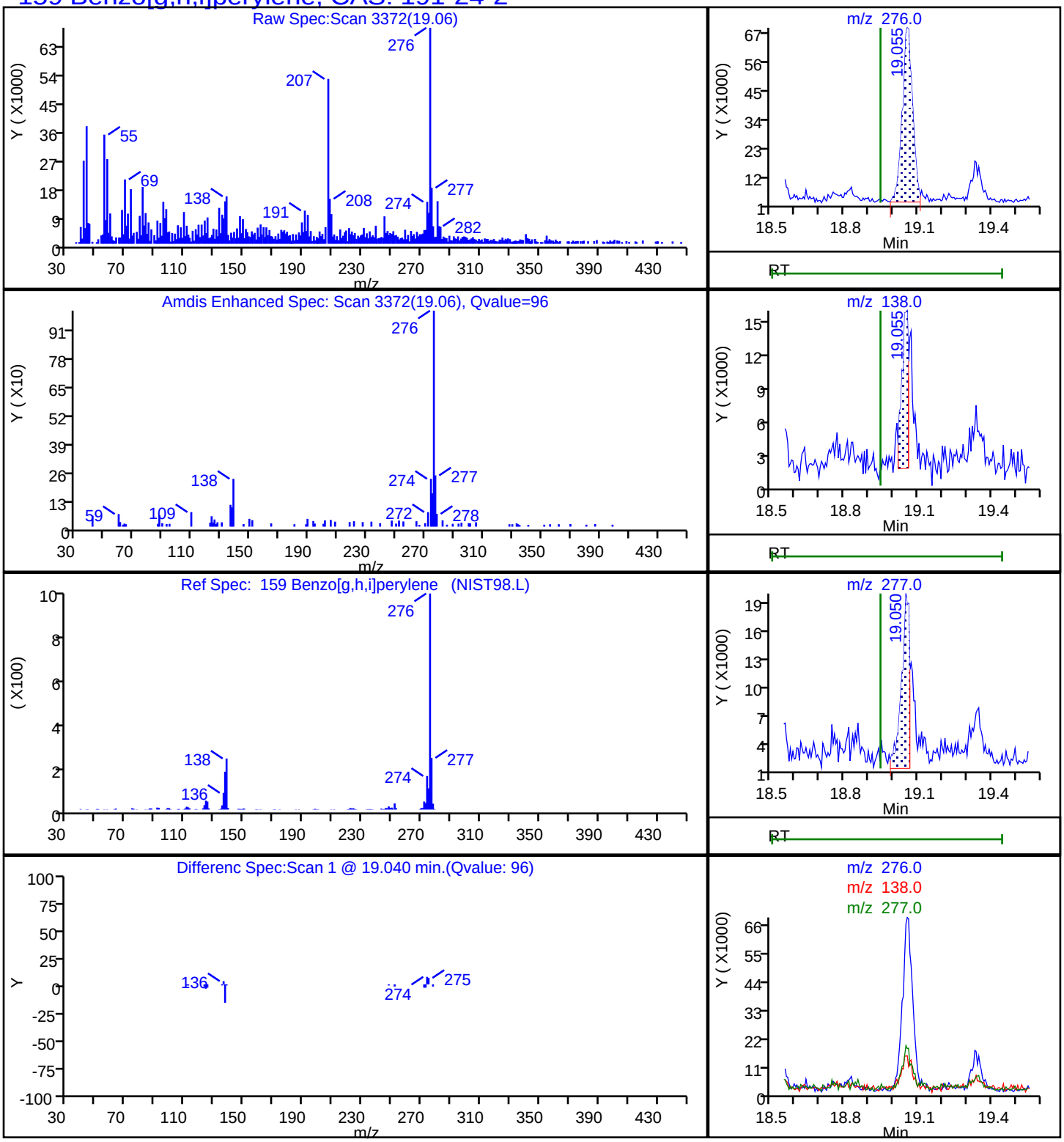


Report Date: 15-Oct-2018 09:18:25 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014023.D				
Injection Date:	14-Oct-2018 21:38:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-5-B	Lab Sample ID:	180-82446-5		
Client ID:	POS-SED-L15-S1 (0-0.5')				
Operator ID:	001562	ALS Bottle#:	22	Worklist Smp#:	23
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

159 Benzo[g,h,i]perylene, CAS: 191-24-2

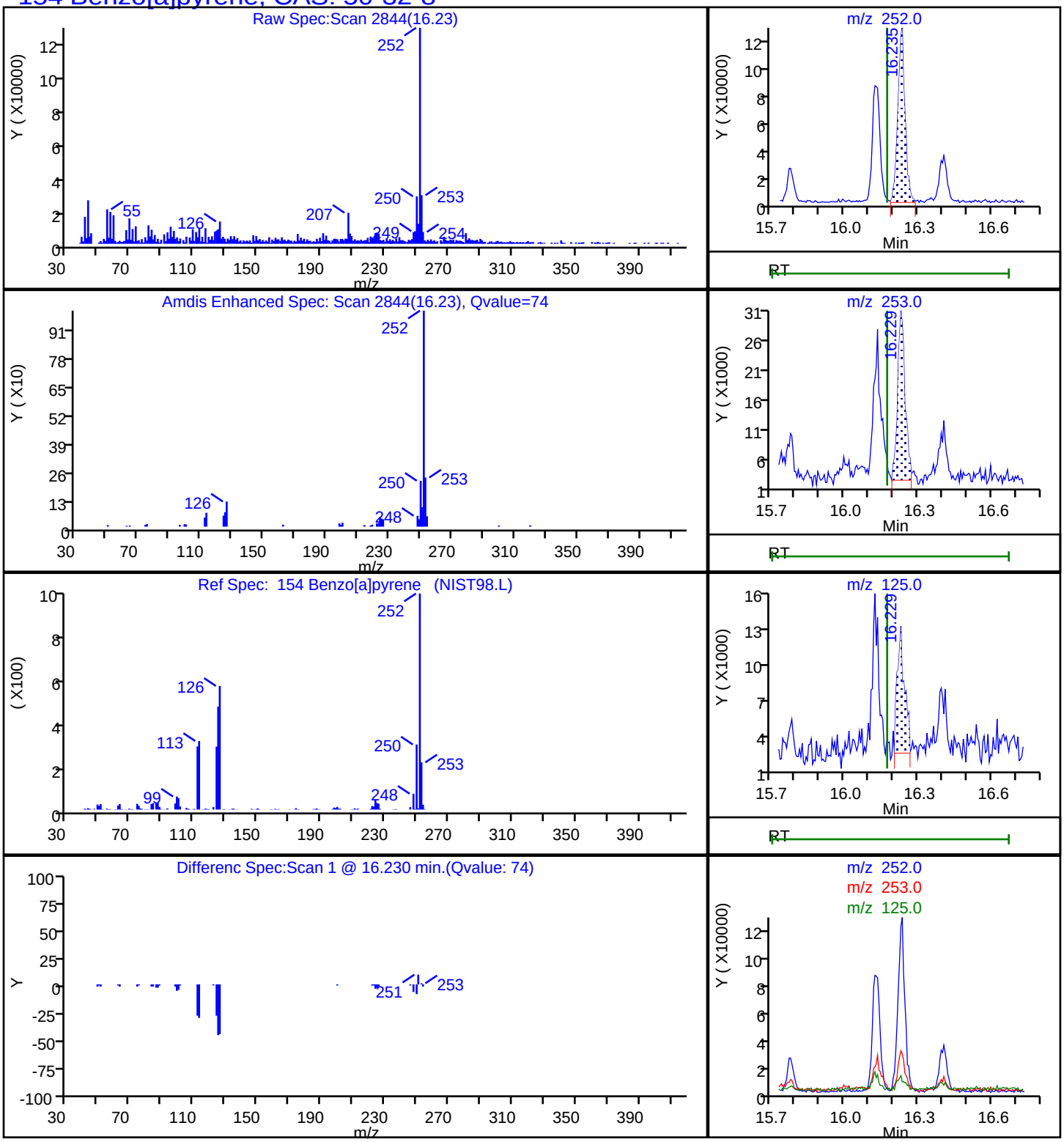


Report Date: 15-Oct-2018 09:18:24 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014023.D				
Injection Date:	14-Oct-2018 21:38:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-5-B	Lab Sample ID:	180-82446-5		
Client ID:	POS-SED-L15-S1 (0-0.5')				
Operator ID:	001562	ALS Bottle#:	22	Worklist Smp#:	23
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

154 Benzo[a]pyrene, CAS: 50-32-8

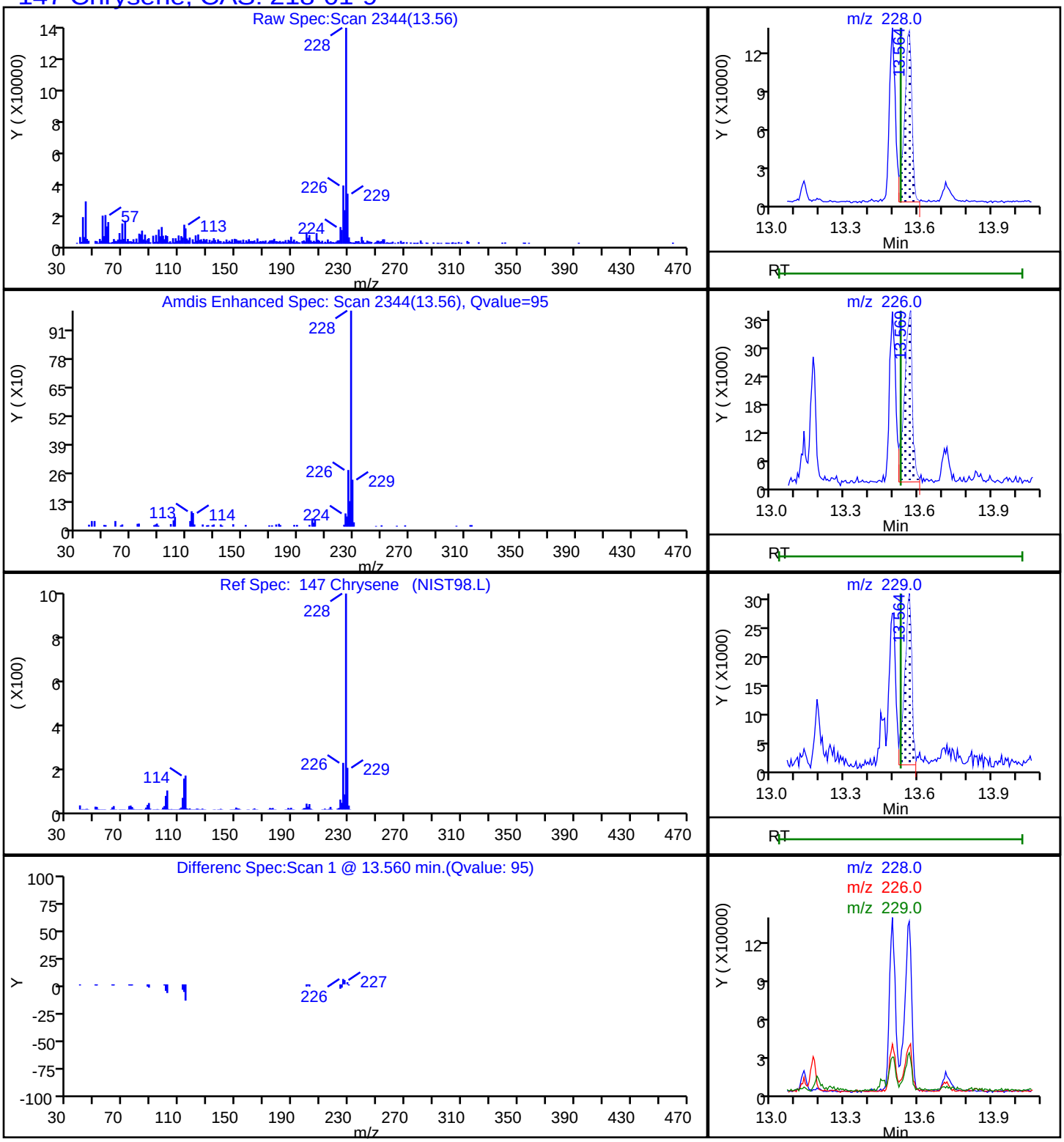


Report Date: 15-Oct-2018 09:18:24 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014023.D				
Injection Date:	14-Oct-2018 21:38:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-5-B	Lab Sample ID:	180-82446-5		
Client ID:	POS-SED-L15-S1 (0-0.5')				
Operator ID:	001562	ALS Bottle#:	22	Worklist Smp#:	23
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

147 Chrysene, CAS: 218-01-9

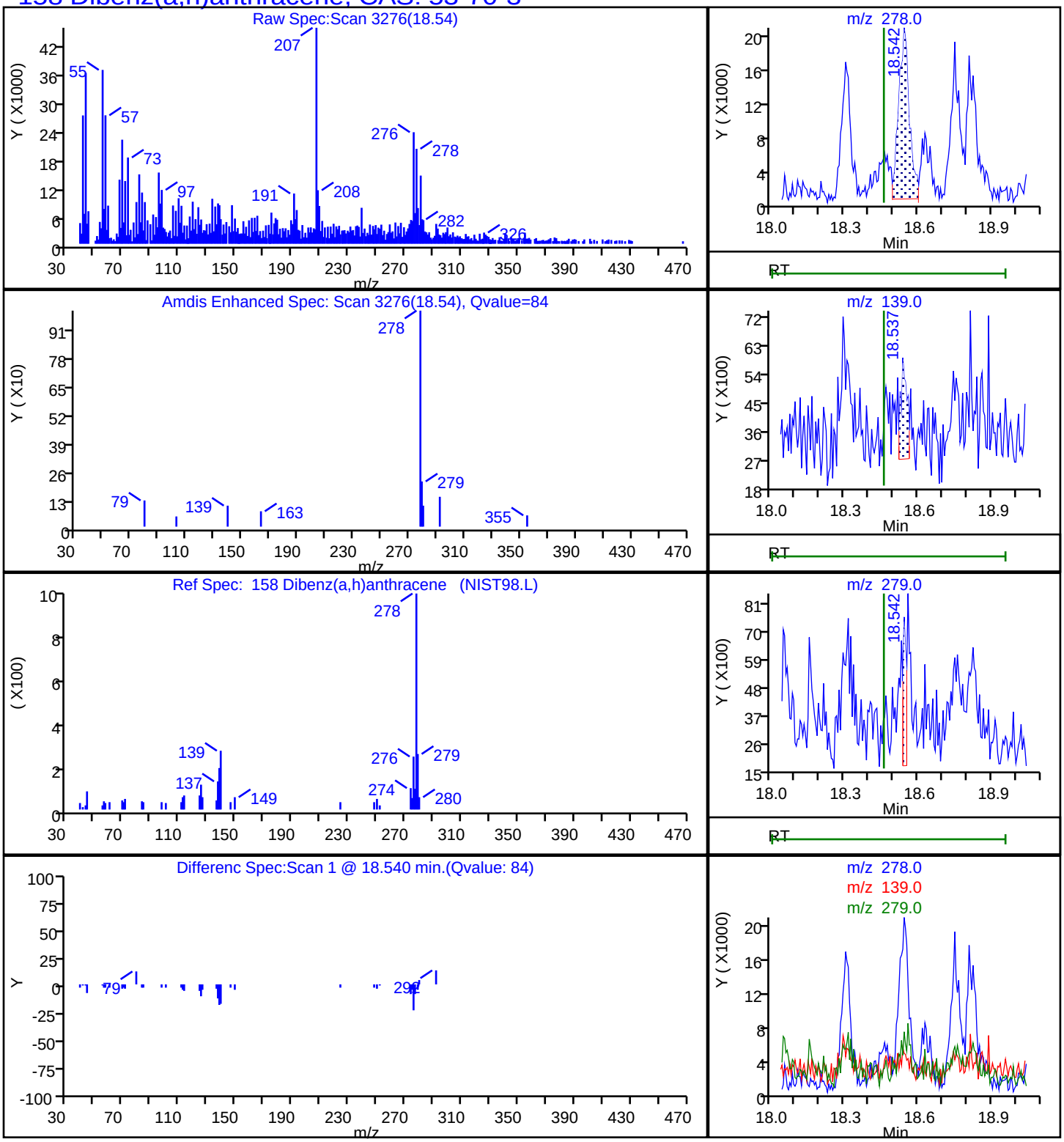


Report Date: 15-Oct-2018 09:18:25 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014023.D				
Injection Date:	14-Oct-2018 21:38:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-5-B	Lab Sample ID:	180-82446-5		
Client ID:	POS-SED-L15-S1 (0-0.5')				
Operator ID:	001562	ALS Bottle#:	22	Worklist Smp#:	23
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

158 Dibenz(a,h)anthracene, CAS: 53-70-3

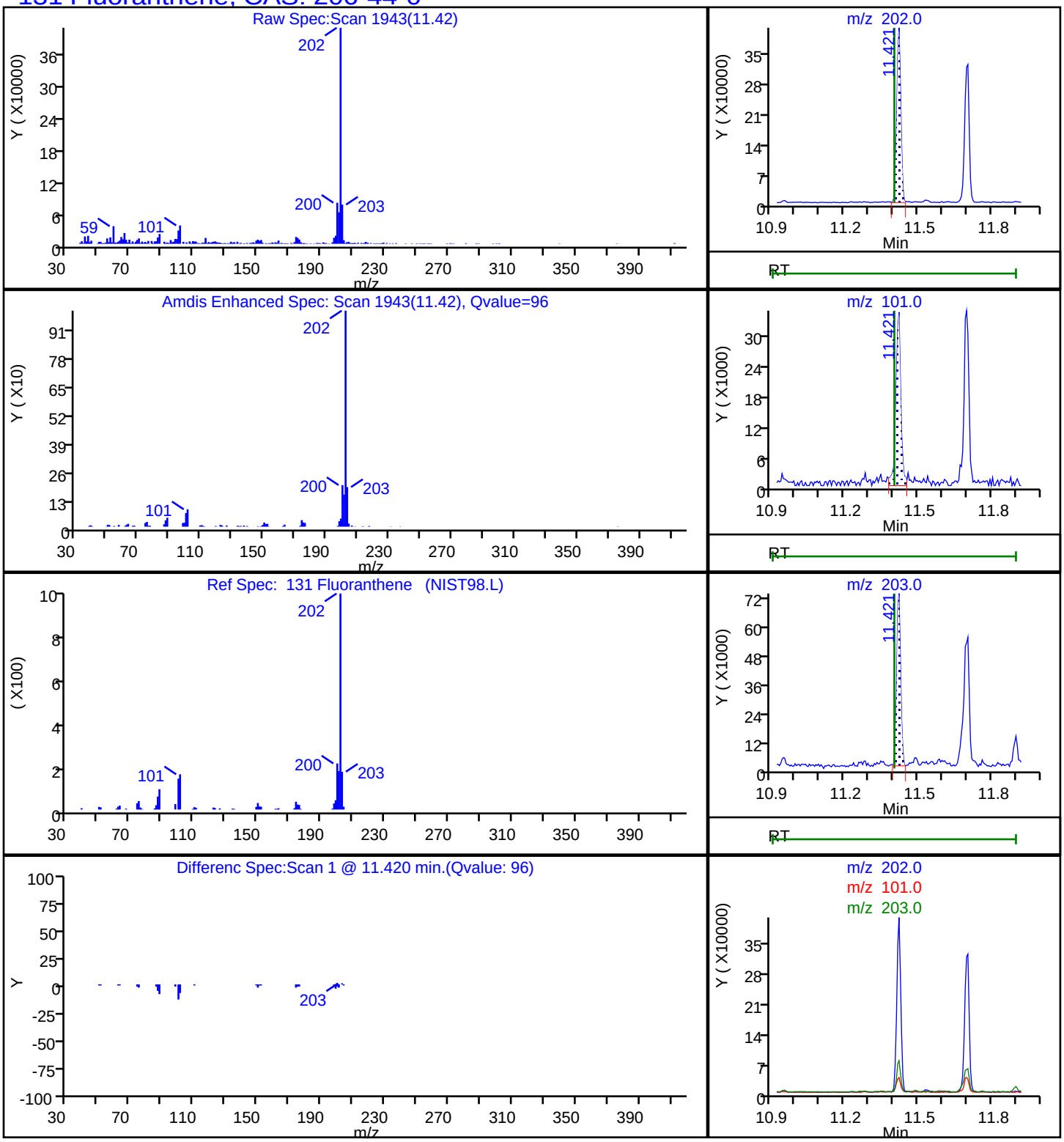


Report Date: 15-Oct-2018 09:18:24 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014023.D				
Injection Date:	14-Oct-2018 21:38:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-5-B	Lab Sample ID:	180-82446-5		
Client ID:	POS-SED-L15-S1 (0-0.5')				
Operator ID:	001562	ALS Bottle#:	22	Worklist Smp#:	23
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

131 Fluoranthene, CAS: 206-44-0

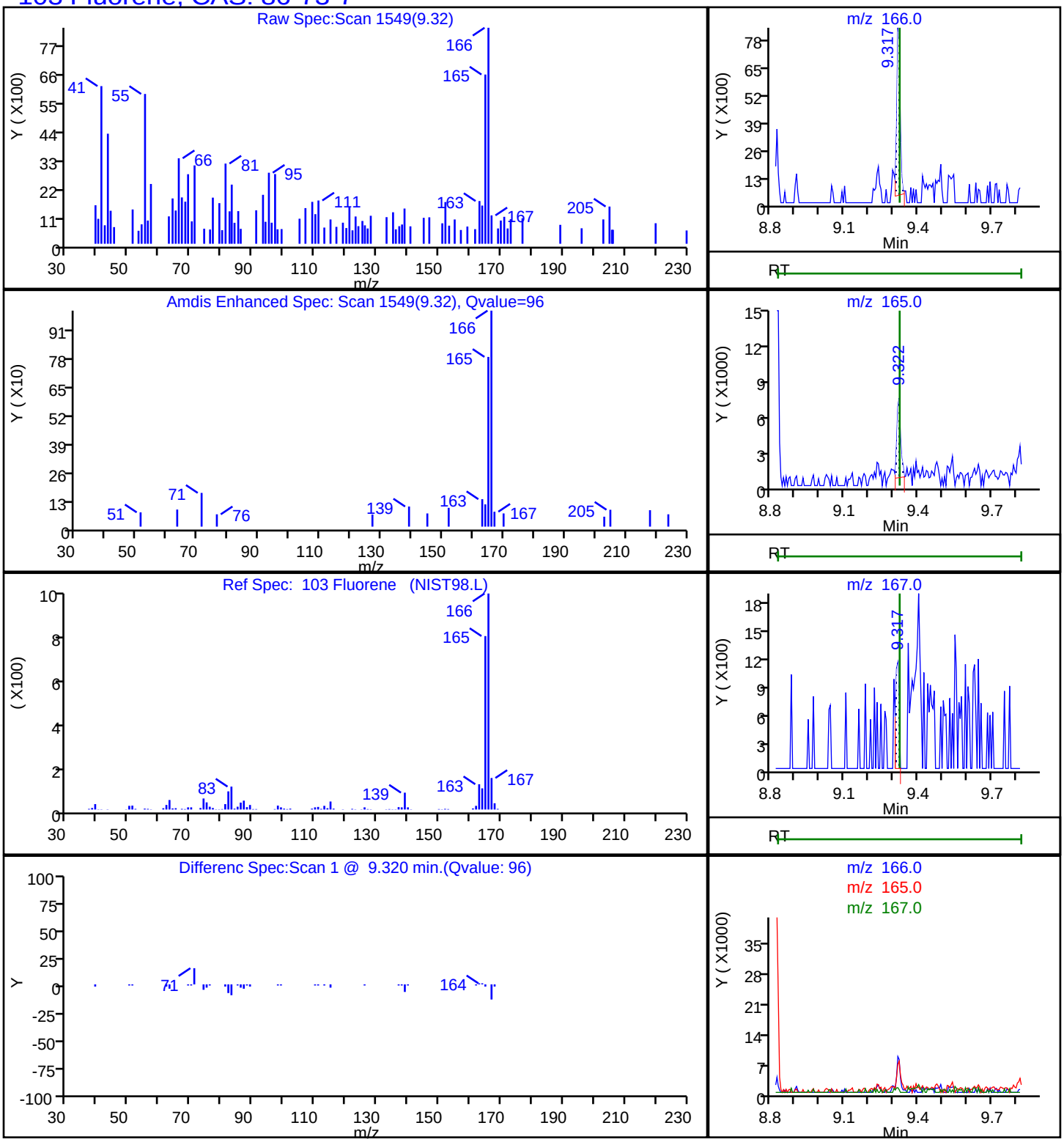


Report Date: 15-Oct-2018 09:18:24 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014023.D				
Injection Date:	14-Oct-2018 21:38:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-5-B	Lab Sample ID:	180-82446-5		
Client ID:	POS-SED-L15-S1 (0-0.5')				
Operator ID:	001562	ALS Bottle#:	22	Worklist Smp#:	23
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

103 Fluorene, CAS: 86-73-7

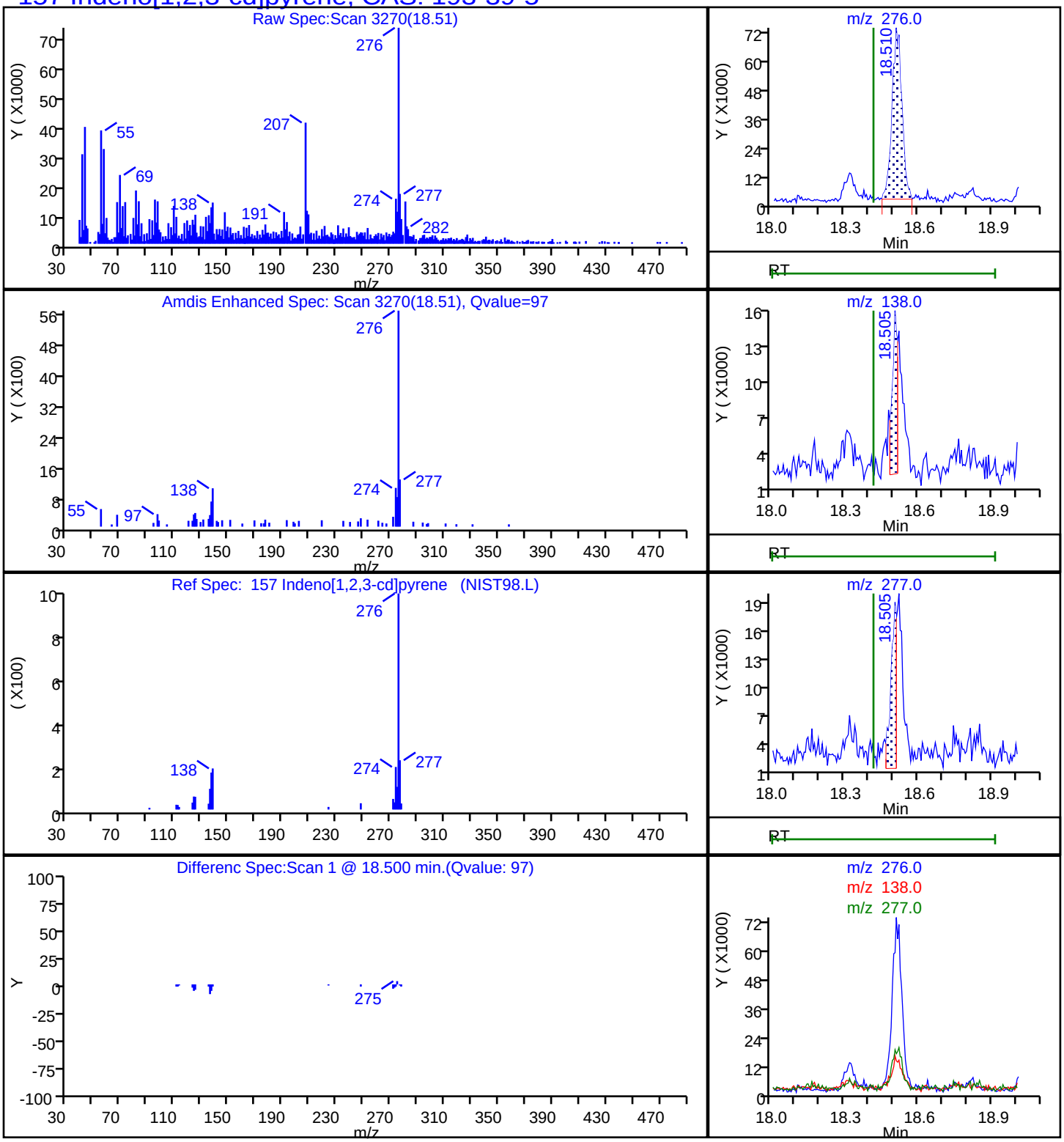


Report Date: 15-Oct-2018 09:18:24 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014023.D				
Injection Date:	14-Oct-2018 21:38:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-5-B	Lab Sample ID:	180-82446-5		
Client ID:	POS-SED-L15-S1 (0-0.5')				
Operator ID:	001562	ALS Bottle#:	22	Worklist Smp#:	23
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

157 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

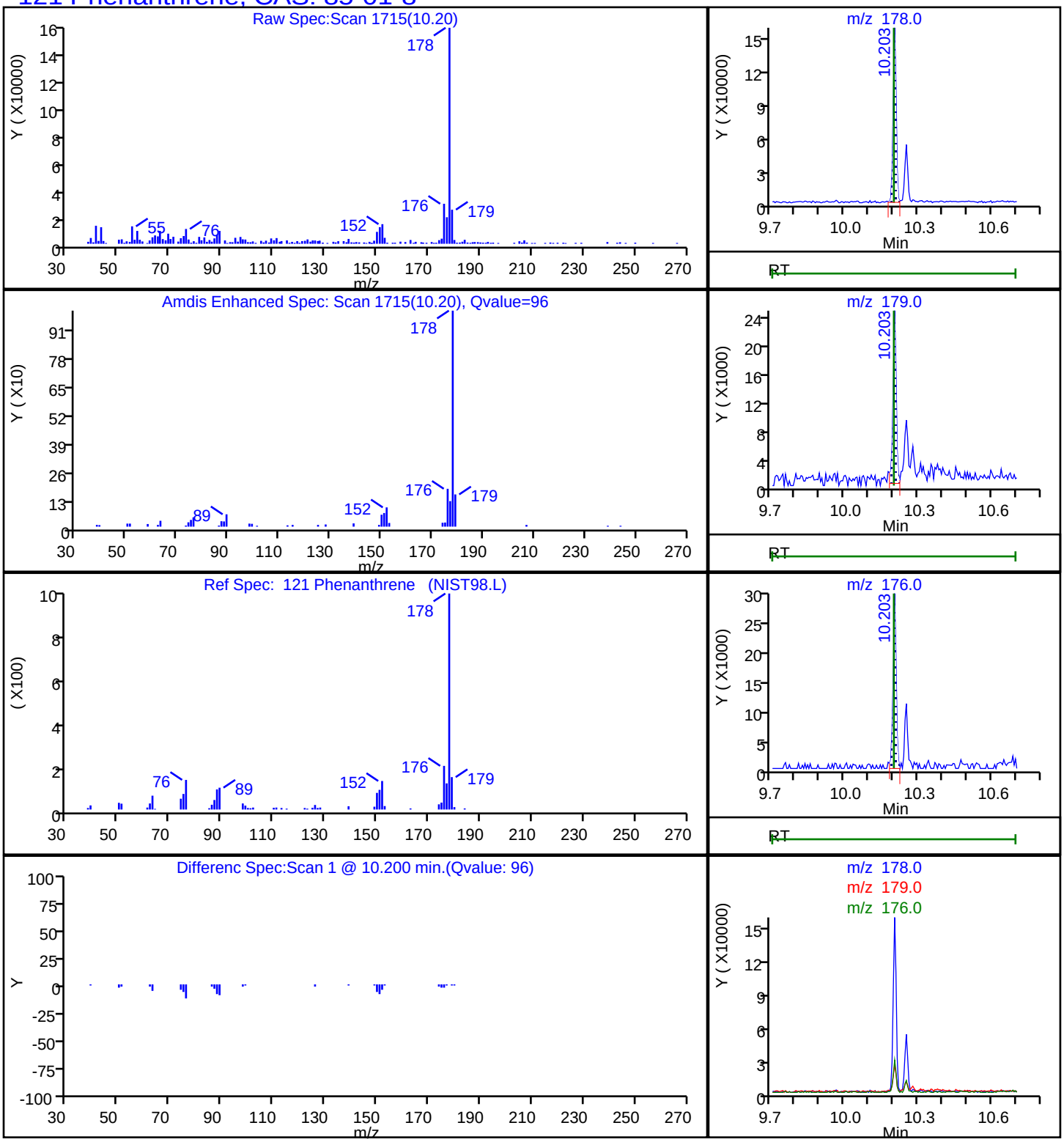


Report Date: 15-Oct-2018 09:18:24 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014023.D				
Injection Date:	14-Oct-2018 21:38:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-5-B	Lab Sample ID:	180-82446-5		
Client ID:	POS-SED-L15-S1 (0-0.5')				
Operator ID:	001562	ALS Bottle#:	22	Worklist Smp#:	23
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

121 Phenanthrene, CAS: 85-01-8

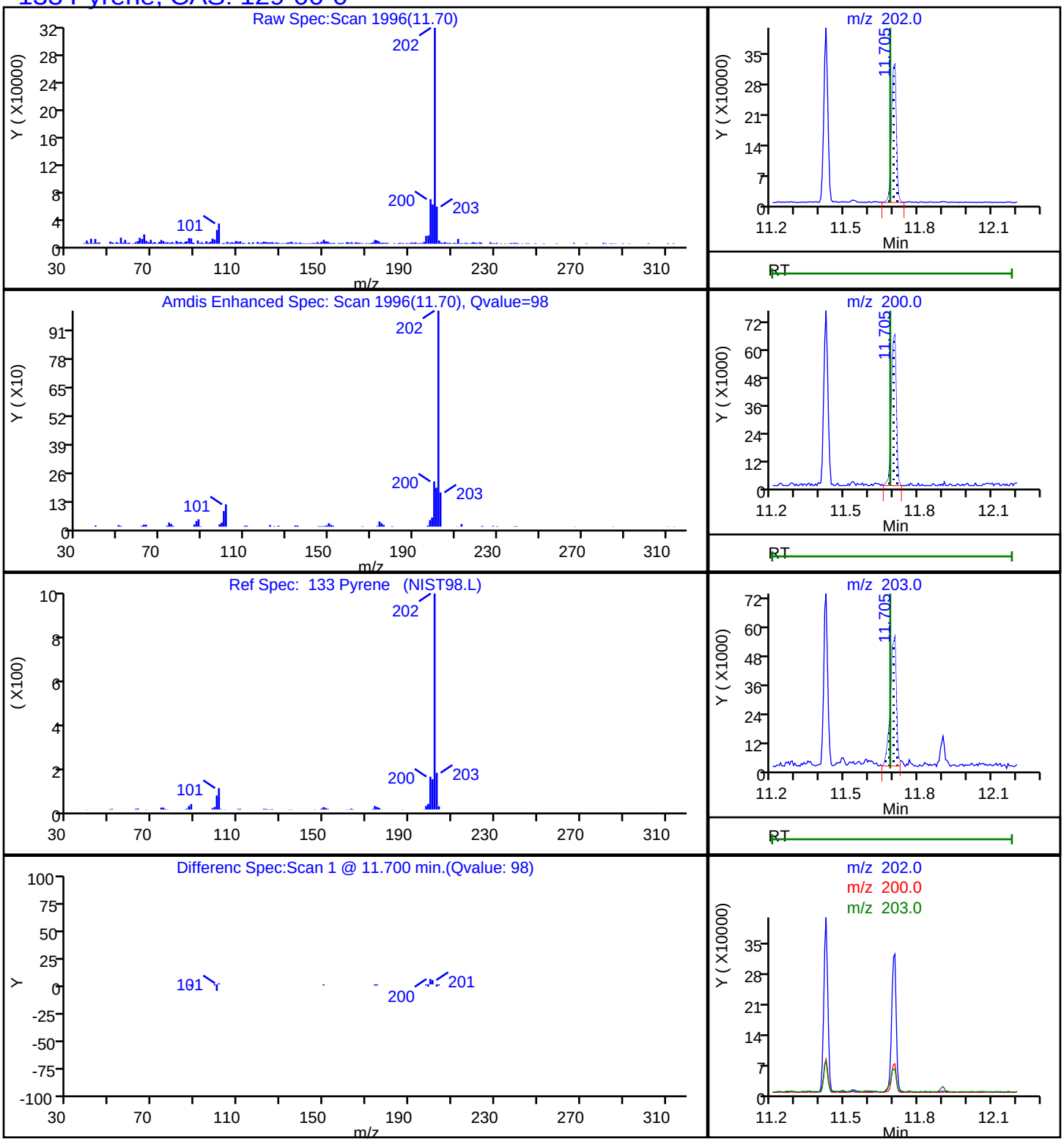


Report Date: 15-Oct-2018 09:18:24 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014023.D				
Injection Date:	14-Oct-2018 21:38:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-5-B	Lab Sample ID:	180-82446-5		
Client ID:	POS-SED-L15-S1 (0-0.5')				
Operator ID:	001562	ALS Bottle#:	22	Worklist Smp#:	23
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

133 Pyrene, CAS: 129-00-0

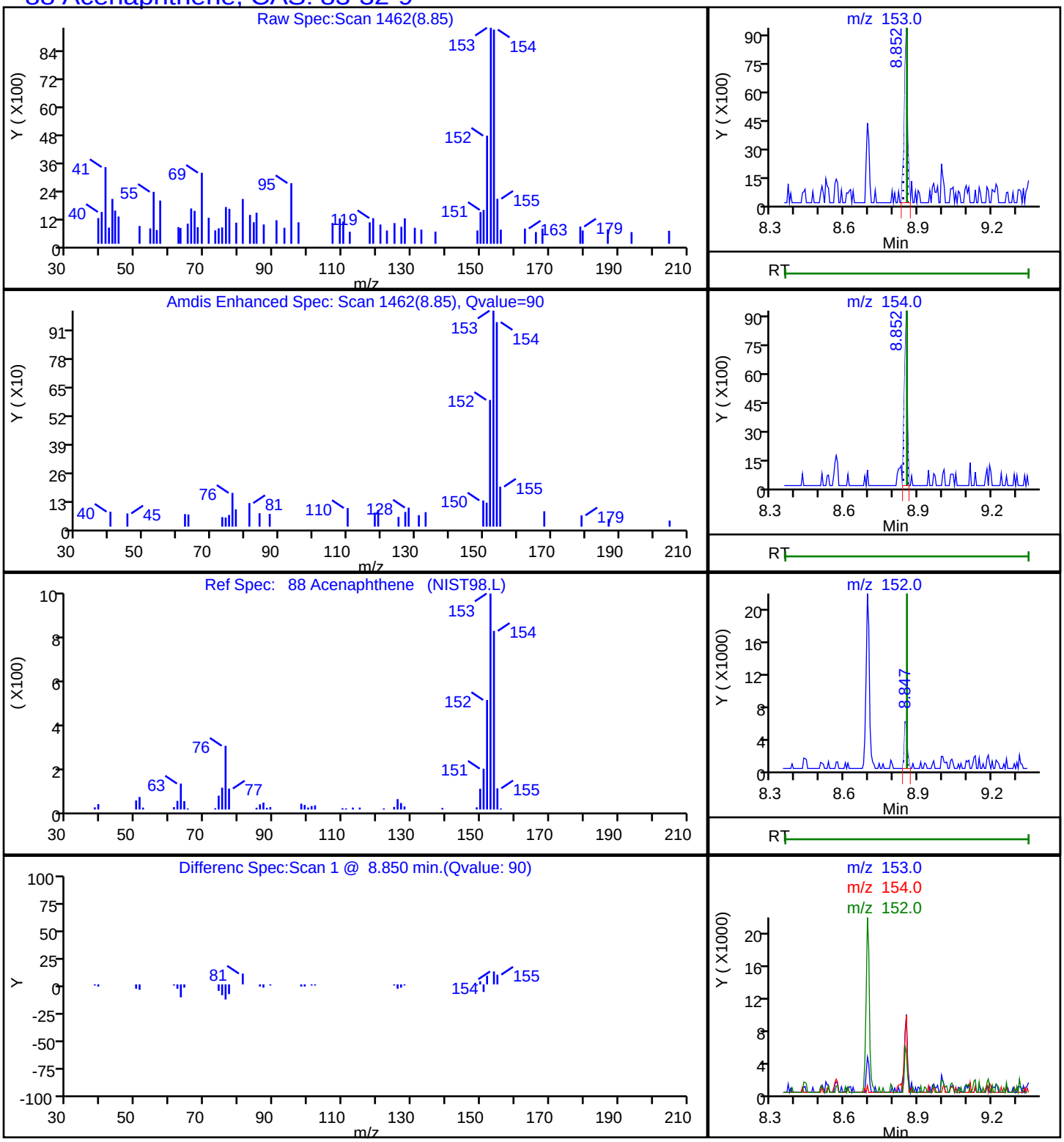


Report Date: 15-Oct-2018 09:18:24 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014023.D				
Injection Date:	14-Oct-2018 21:38:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-5-B	Lab Sample ID:	180-82446-5		
Client ID:	POS-SED-L15-S1 (0-0.5')				
Operator ID:	001562	ALS Bottle#:	22	Worklist Smp#:	23
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

88 Acenaphthene, CAS: 83-32-9

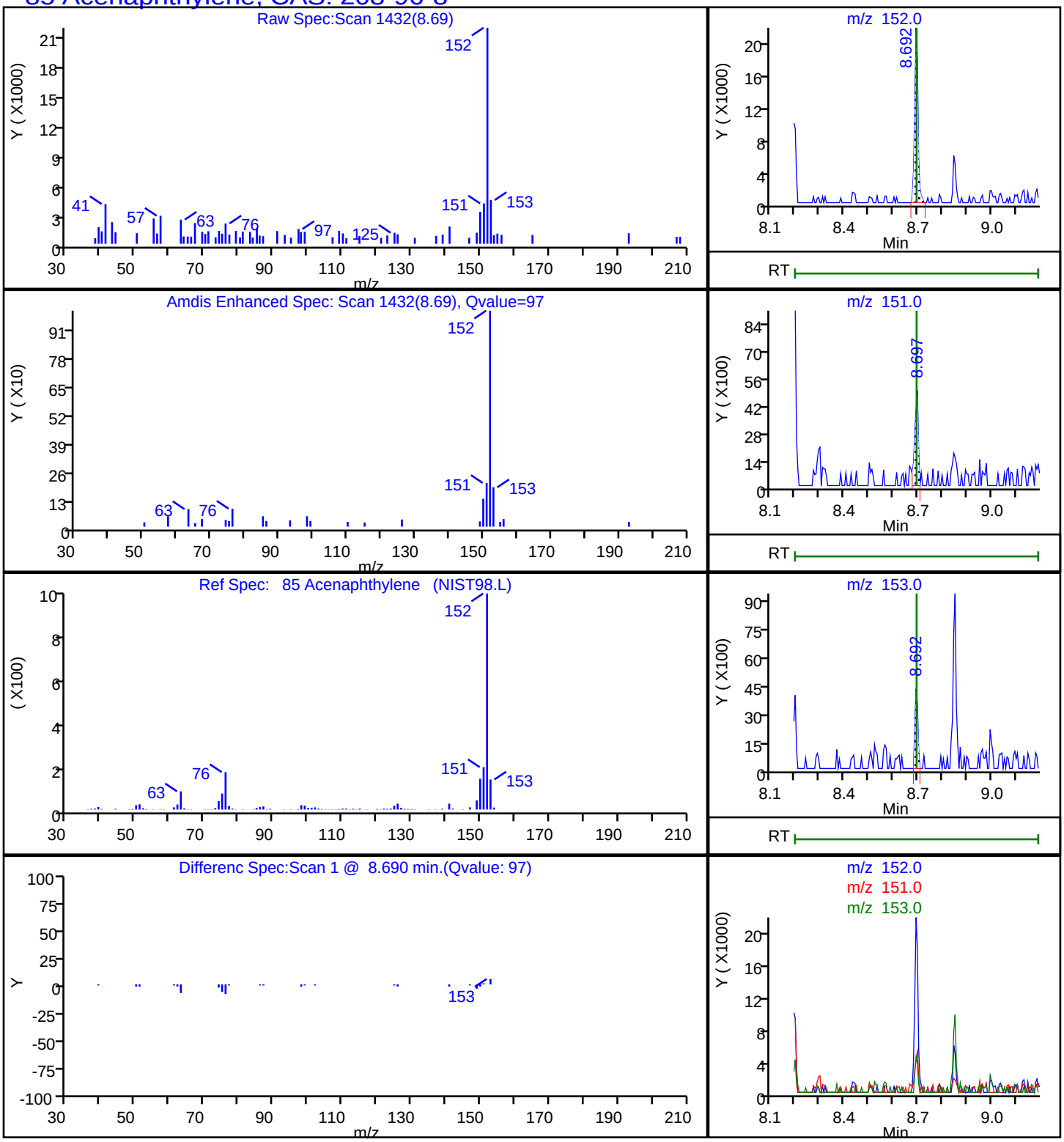


Report Date: 15-Oct-2018 09:18:24 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014023.D				
Injection Date:	14-Oct-2018 21:38:30	Instrument ID:	CH71		
Lims ID:	180-82446-B-5-B	Lab Sample ID:	180-82446-5		
Client ID:	POS-SED-L15-S1 (0-0.5')				
Operator ID:	001562	ALS Bottle#:	22	Worklist Smp#:	23
Injection Vol:	2.0 ul	Dil. Factor:	10.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

85 Acenaphthylene, CAS: 208-96-8



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh
Job No.: 180-82446-1
SDG No.:
Client Sample ID: POS-SED-L15-S2 (5-10')
Lab Sample ID: 180-82446-6
Matrix: Sediment
Lab File ID: S1014024.D
Analysis Method: EPA 8270D LL
Date Collected: 09/27/2018 15:30
Extract. Method: 3541
Date Extracted: 10/08/2018 09:24
Sample wt/vol: 30.0(g)
Date Analyzed: 10/14/2018 22:06
Con. Extract Vol.: 0.5(mL)
Dilution Factor: 5
Injection Volume: 2(uL)
Level: (low/med) Low
% Moisture: 36.6
GPC Cleanup:(Y/N) N
Analysis Batch No.: 259751
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-12-7	Anthracene	24	J	26	6.8
56-55-3	Benzo[a]anthracene	68		26	5.0
205-99-2	Benzo[b]fluoranthene	100		26	6.5
207-08-9	Benzo[k]fluoranthene	49		26	7.9
191-24-2	Benzo[g,h,i]perylene	56		26	5.7
50-32-8	Benzo[a]pyrene	75		26	5.7
218-01-9	Chrysene	88		26	5.2
53-70-3	Dibenz(a,h)anthracene	17	J	26	5.9
206-44-0	Fluoranthene	160		26	6.9
86-73-7	Fluorene	8.7	J	26	5.2
193-39-5	Indeno[1,2,3-cd]pyrene	49		26	5.3
85-01-8	Phenanthrene	110		26	7.1
129-00-0	Pyrene	190		26	6.2
83-32-9	Acenaphthene	8.8	J	26	7.6
208-96-8	Acenaphthylene	12	J	26	5.8
91-20-3	Naphthalene	5.5	J	26	5.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5 (Surr)	61		39-105
321-60-8	2-Fluorobiphenyl	62		39-105
1718-51-0	Terphenyl-d14 (Surr)	69		28-148

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014024.D
Lims ID: 180-82446-C-6-B
Client ID: POS-SED-L15-S2 (5-10')
Sample Type: Client
Inject. Date: 14-Oct-2018 22:06:30 ALS Bottle#: 23 Worklist Smp#: 24
Injection Vol: 2.0 ul Dil. Factor: 5.0000
Sample Info: 180-0024080-024
Misc. Info.: 180-82446-C-6-B
Operator ID: 001562 Instrument ID: CH71

Method: \\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\BNA_CH71.m
Limit Group: BNA 8270D ICAL
Last Update: 15-Oct-2018 09:20:01 Calib Date: 16-Apr-2018 17:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416021.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: fergusond Date: 15-Oct-2018 09:20:01

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.006	5.998	0.008	96	134281	8.00	
* 2 Naphthalene-d8	136	7.208	7.205	0.003	100	508769	8.00	
* 3 Acenaphthene-d10	164	8.821	8.819	0.002	94	269889	8.00	
* 4 Phenanthrene-d10	188	10.183	10.176	0.007	96	527714	8.00	
* 5 Chrysene-d12	240	13.517	13.477	0.040	96	684317	8.00	
* 6 Perylene-d12	264	16.359	16.298	0.061	99	651267	8.00	
$ 9 Nitrobenzene-d5	82	6.529	6.535	-0.001	91	113329	4.86	
$ 10 2-Fluorobiphenyl	172	8.196	8.197	-0.001	100	277382	4.96	
$ 12 Terphenyl-d14	244	11.866	11.846	0.020	99	406376	5.55	
58 Naphthalene	128	7.229	7.220	-0.001	90	5793	0.0840	
85 Acenaphthylene	152	8.693	8.689	-0.001	95	10845	0.1802	
88 Acenaphthene	153	8.853	8.859	-0.001	38	5488	0.1342	
103 Fluorene	166	9.323	9.314	-0.001	95	6543	0.1324	
121 Phenanthrene	178	10.205	10.205	0.005	97	121944	1.74	
122 Anthracene	178	10.253	10.258	0.005	75	26216	0.3723	
131 Fluoranthene	202	11.428	11.423	0.026	97	205590	2.40	
133 Pyrene	202	11.706	11.693	0.021	98	289839	2.84	
146 Benzo[a]anthracene	228	13.501	13.504	0.042	67	106103	1.04	
147 Chrysene	228	13.559	13.550	0.031	96	128256	1.34	
152 Benzo[b]fluoranthene	252	15.573	15.595	0.063	93	180246	1.54	
153 Benzo[k]fluoranthene	252	15.621	15.621	0.052	1	78233	0.7425	Ma
154 Benzo[a]pyrene	252	16.230	16.221	0.057	75	112228	1.15	
157 Indeno[1,2,3-cd]pyrene	276	18.506	18.481	0.090	97	84200	0.7521	
158 Dibenz(a,h)anthracene	278	18.554	18.554	0.095	48	24445	0.2583	a
159 Benzo[g,h,i]perylene	276	19.062	19.031	0.117	82	78076	0.8448	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

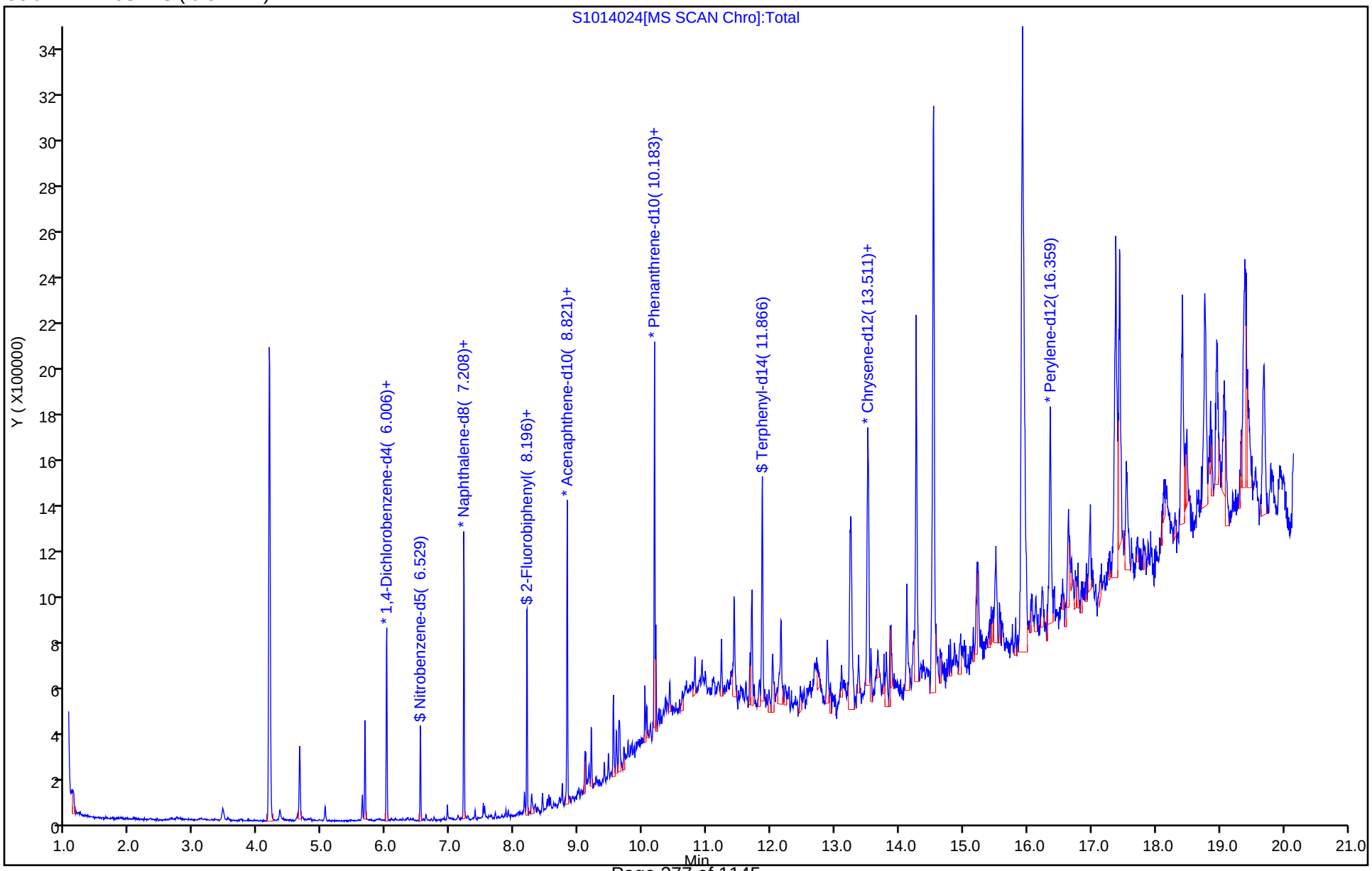
SVTAPITINTRNi_00018	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 15-Oct-2018 09:20:01 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014024.D				
Injection Date:	14-Oct-2018 22:06:30	Instrument ID:	CH71	Operator ID:	001562
Lims ID:	180-82446-C-6-B	Lab Sample ID:	180-82446-6	Worklist Smp#:	24
Client ID:	POS-SED-L15-S2 (5-10')				
Injection Vol:	2.0 ul	Dil. Factor:	5.0000	ALS Bottle#:	23
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)

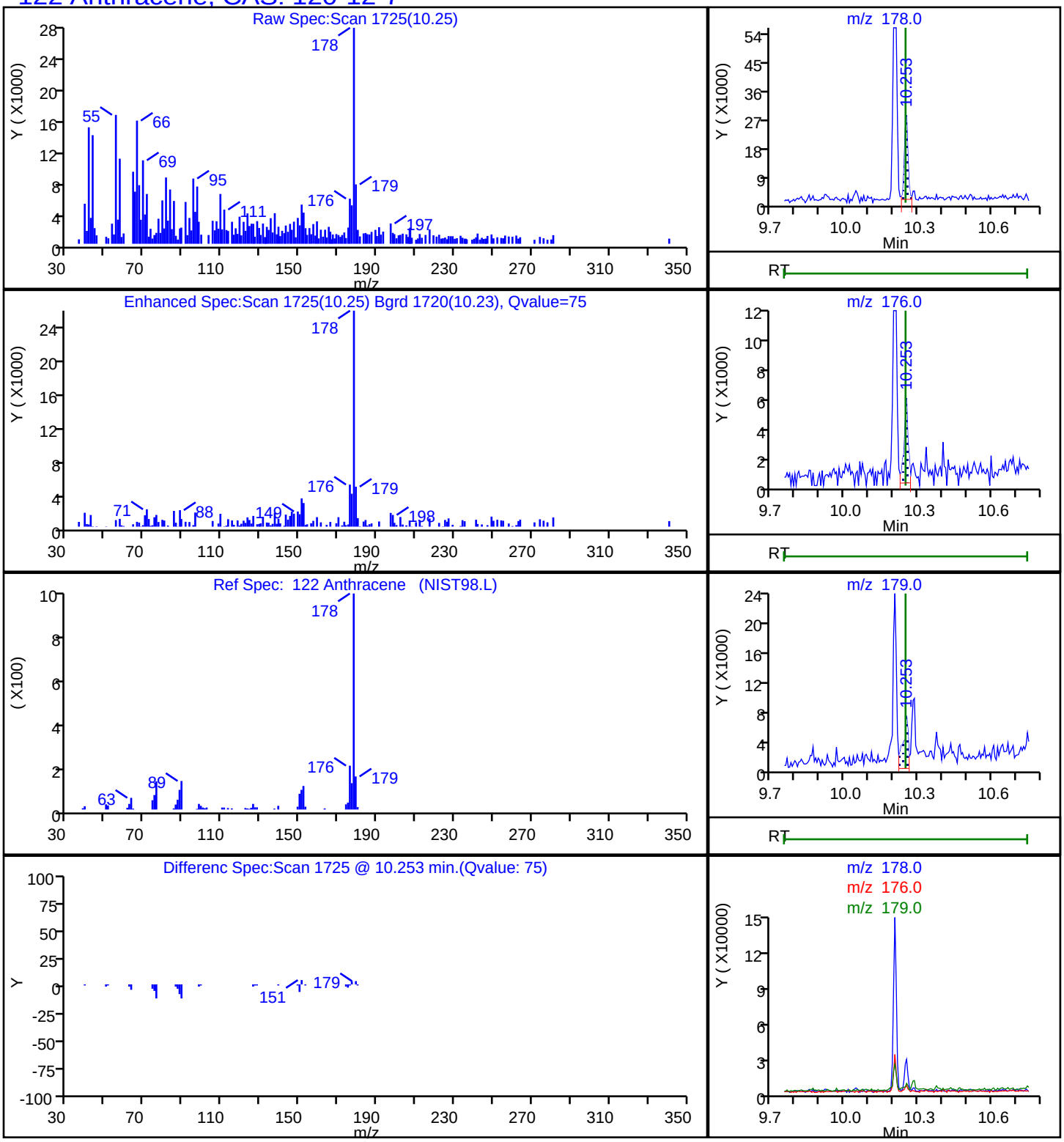


Report Date: 15-Oct-2018 09:20:01 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014024.D				
Injection Date:	14-Oct-2018 22:06:30	Instrument ID:	CH71		
Lims ID:	180-82446-C-6-B	Lab Sample ID:	180-82446-6		
Client ID:	POS-SED-L15-S2 (5-10')				
Operator ID:	001562	ALS Bottle#:	23	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

122 Anthracene, CAS: 120-12-7

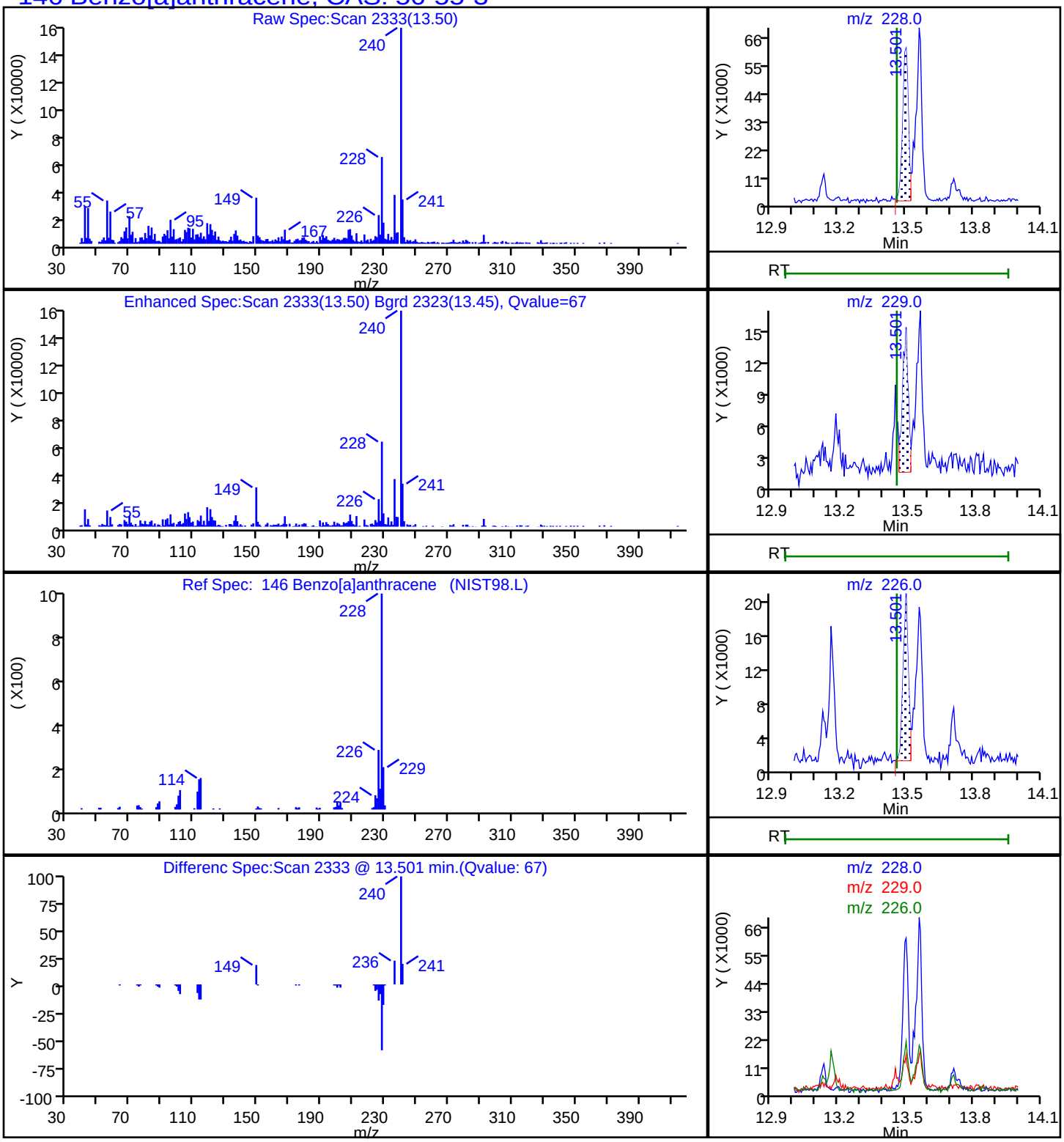


Report Date: 15-Oct-2018 09:20:02 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014024.D				
Injection Date:	14-Oct-2018 22:06:30	Instrument ID:	CH71		
Lims ID:	180-82446-C-6-B	Lab Sample ID:	180-82446-6		
Client ID:	POS-SED-L15-S2 (5-10')				
Operator ID:	001562	ALS Bottle#:	23	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

146 Benzo[a]anthracene, CAS: 56-55-3

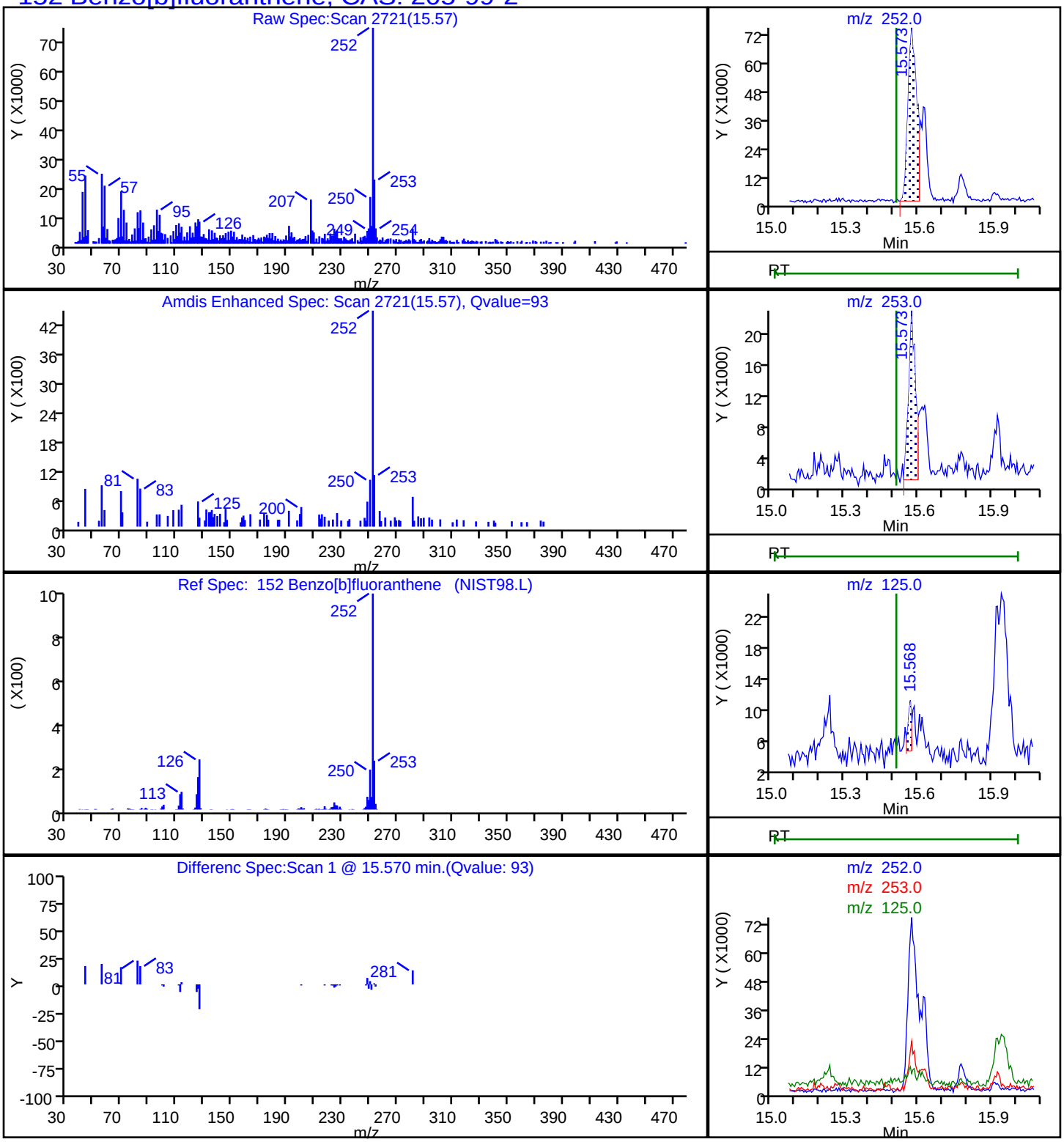


Report Date: 15-Oct-2018 09:20:02 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014024.D				
Injection Date:	14-Oct-2018 22:06:30	Instrument ID:	CH71		
Lims ID:	180-82446-C-6-B	Lab Sample ID:	180-82446-6		
Client ID:	POS-SED-L15-S2 (5-10')				
Operator ID:	001562	ALS Bottle#:	23	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

152 Benzo[b]fluoranthene, CAS: 205-99-2

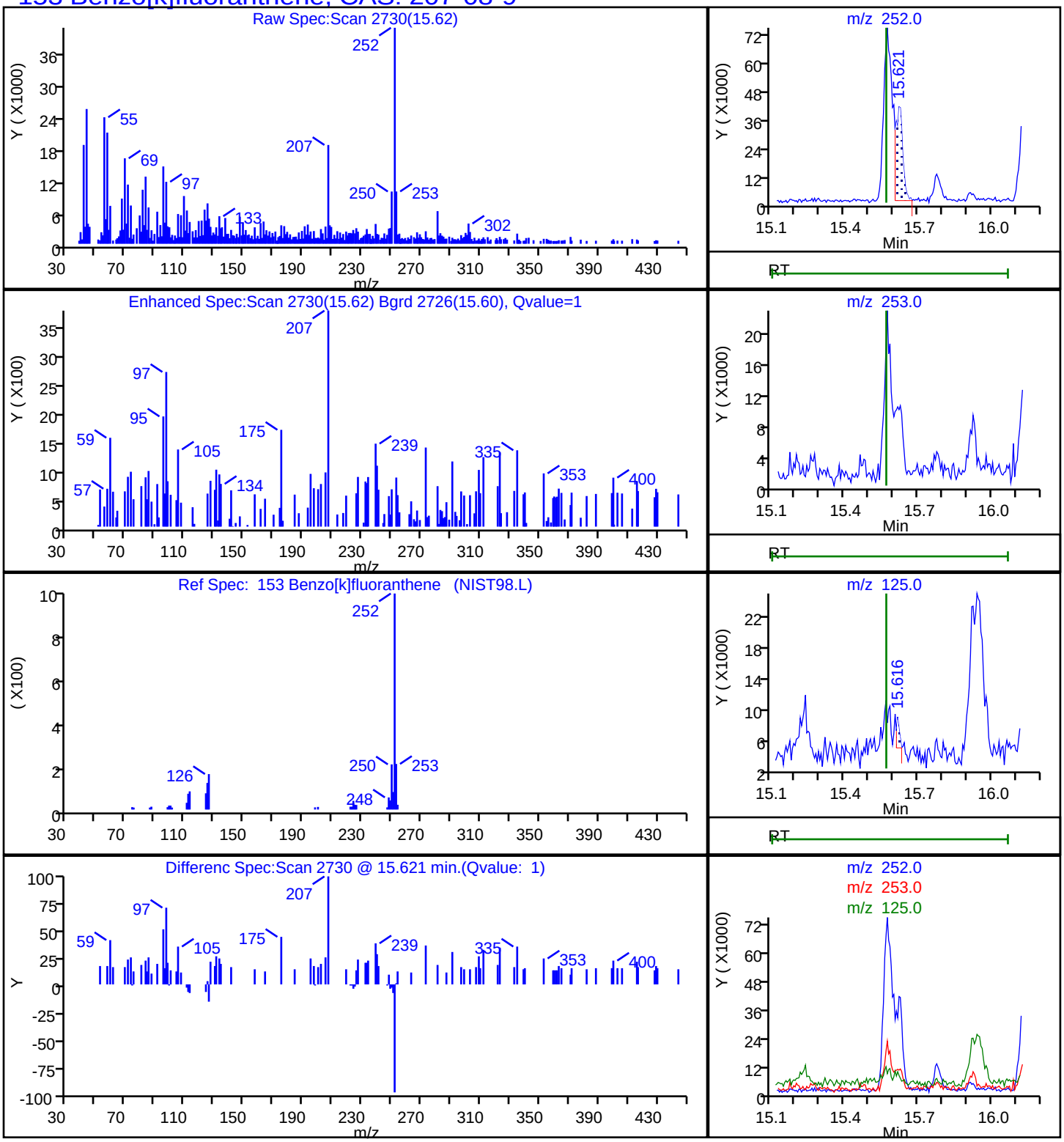


Report Date: 15-Oct-2018 09:20:02 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014024.D				
Injection Date:	14-Oct-2018 22:06:30	Instrument ID:	CH71		
Lims ID:	180-82446-C-6-B	Lab Sample ID:	180-82446-6		
Client ID:	POS-SED-L15-S2 (5-10')				
Operator ID:	001562	ALS Bottle#:	23	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

153 Benzo[k]fluoranthene, CAS: 207-08-9

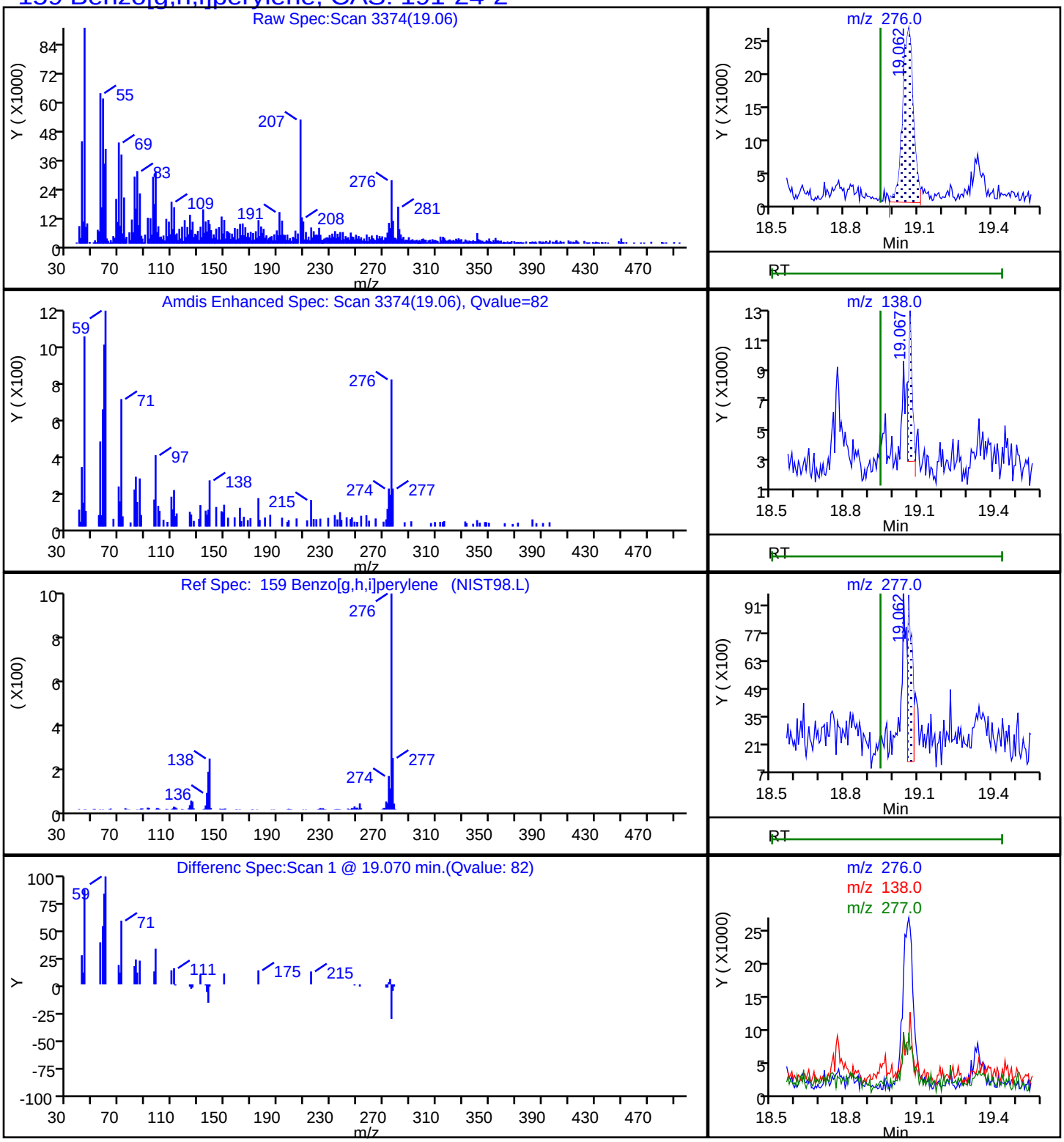


Report Date: 15-Oct-2018 09:20:02 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014024.D				
Injection Date:	14-Oct-2018 22:06:30	Instrument ID:	CH71		
Lims ID:	180-82446-C-6-B	Lab Sample ID:	180-82446-6		
Client ID:	POS-SED-L15-S2 (5-10')				
Operator ID:	001562	ALS Bottle#:	23	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

159 Benzo[g,h,i]perylene, CAS: 191-24-2

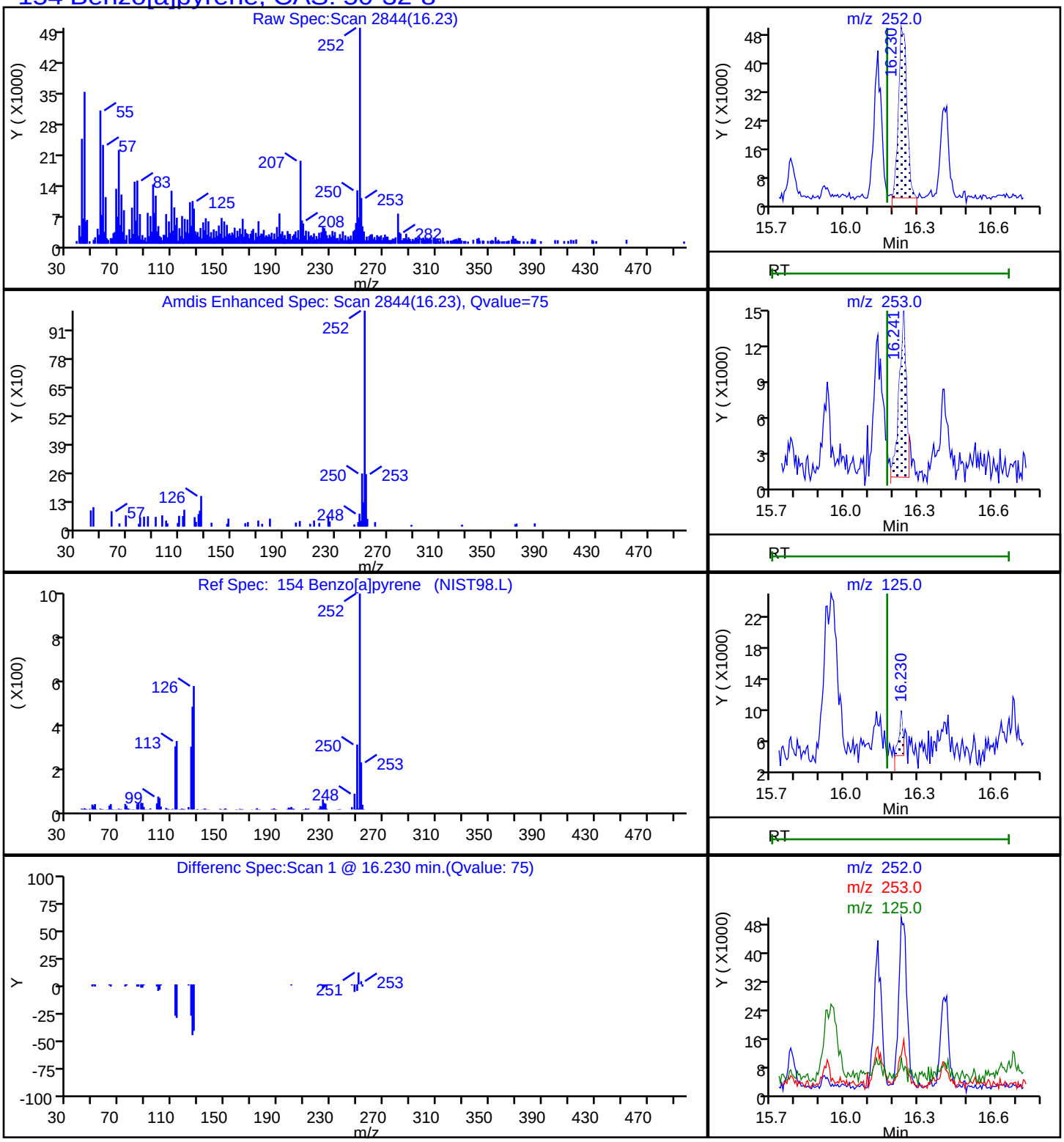


Report Date: 15-Oct-2018 09:20:02 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014024.D				
Injection Date:	14-Oct-2018 22:06:30	Instrument ID:	CH71		
Lims ID:	180-82446-C-6-B	Lab Sample ID:	180-82446-6		
Client ID:	POS-SED-L15-S2 (5-10')				
Operator ID:	001562	ALS Bottle#:	23	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

154 Benzo[a]pyrene, CAS: 50-32-8

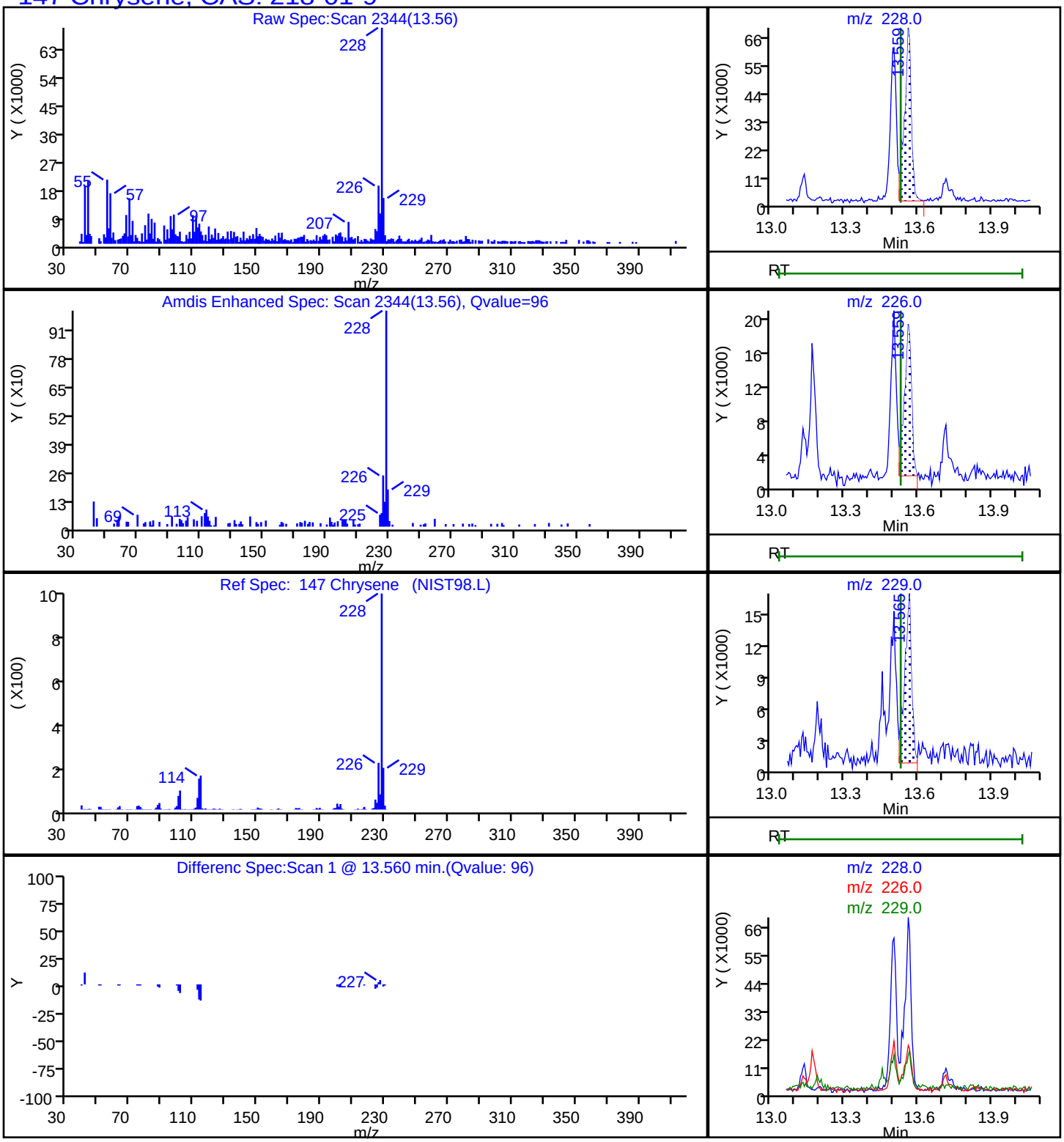


Report Date: 15-Oct-2018 09:20:02 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014024.D				
Injection Date:	14-Oct-2018 22:06:30	Instrument ID:	CH71		
Lims ID:	180-82446-C-6-B	Lab Sample ID:	180-82446-6		
Client ID:	POS-SED-L15-S2 (5-10')				
Operator ID:	001562	ALS Bottle#:	23	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

147 Chrysene, CAS: 218-01-9

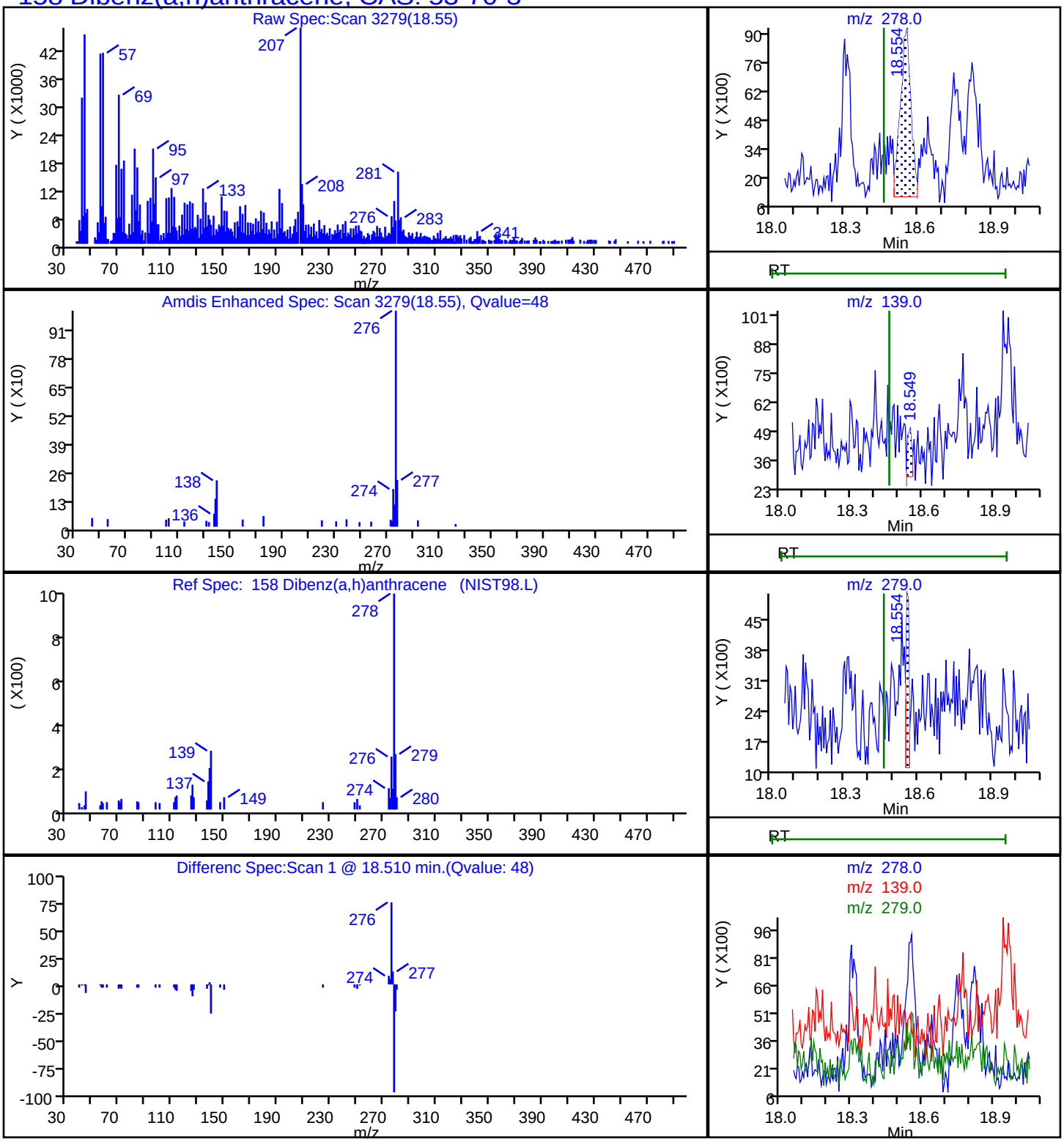


Report Date: 15-Oct-2018 09:20:02 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014024.D				
Injection Date:	14-Oct-2018 22:06:30	Instrument ID:	CH71		
Lims ID:	180-82446-C-6-B	Lab Sample ID:	180-82446-6		
Client ID:	POS-SED-L15-S2 (5-10')				
Operator ID:	001562	ALS Bottle#:	23	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

158 Dibenz(a,h)anthracene, CAS: 53-70-3

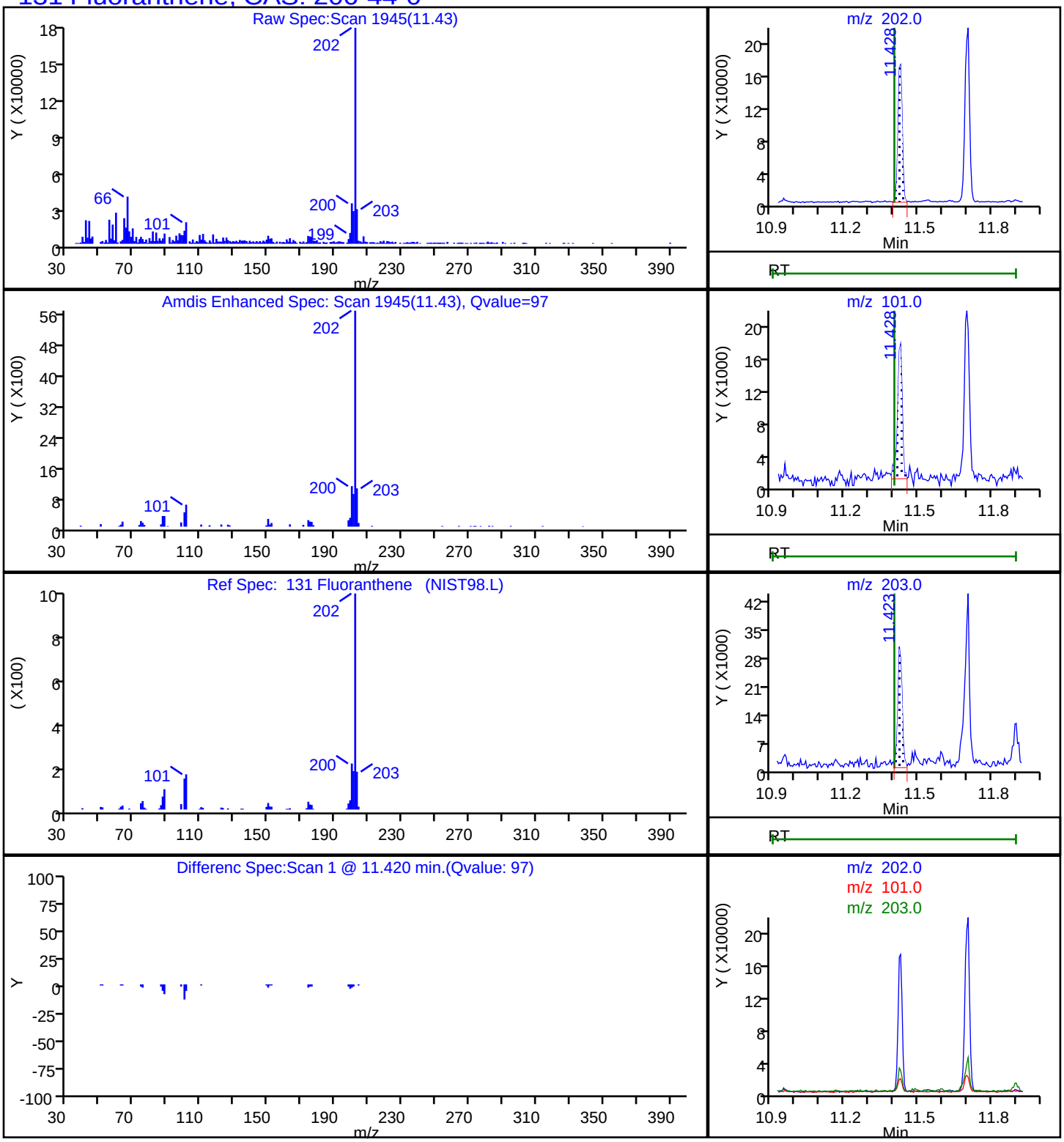


Report Date: 15-Oct-2018 09:20:02 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014024.D				
Injection Date:	14-Oct-2018 22:06:30	Instrument ID:	CH71		
Lims ID:	180-82446-C-6-B	Lab Sample ID:	180-82446-6		
Client ID:	POS-SED-L15-S2 (5-10')				
Operator ID:	001562	ALS Bottle#:	23	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

131 Fluoranthene, CAS: 206-44-0

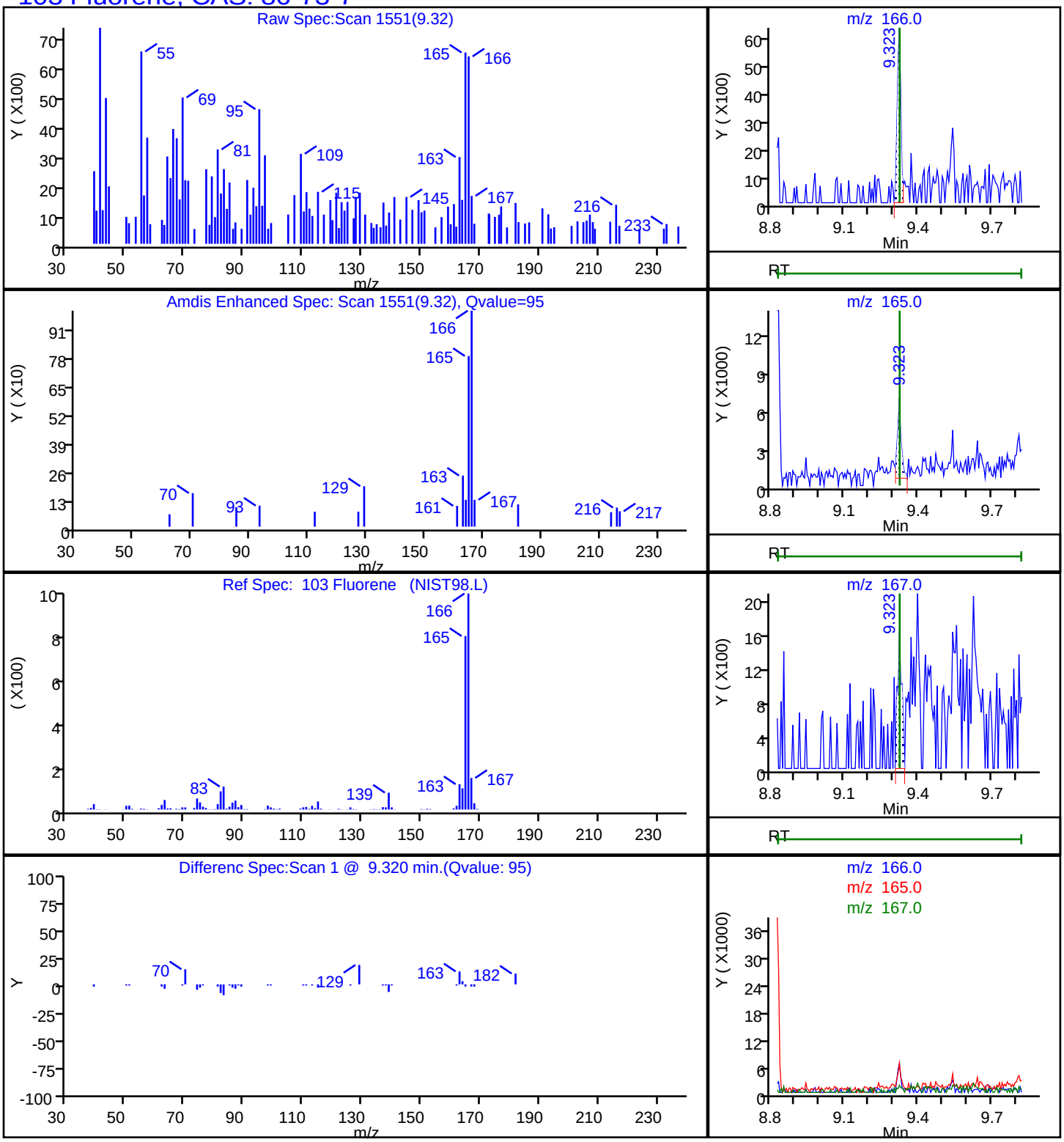


Report Date: 15-Oct-2018 09:20:01 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014024.D				
Injection Date:	14-Oct-2018 22:06:30	Instrument ID:	CH71		
Lims ID:	180-82446-C-6-B	Lab Sample ID:	180-82446-6		
Client ID:	POS-SED-L15-S2 (5-10')				
Operator ID:	001562	ALS Bottle#:	23	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

103 Fluorene, CAS: 86-73-7

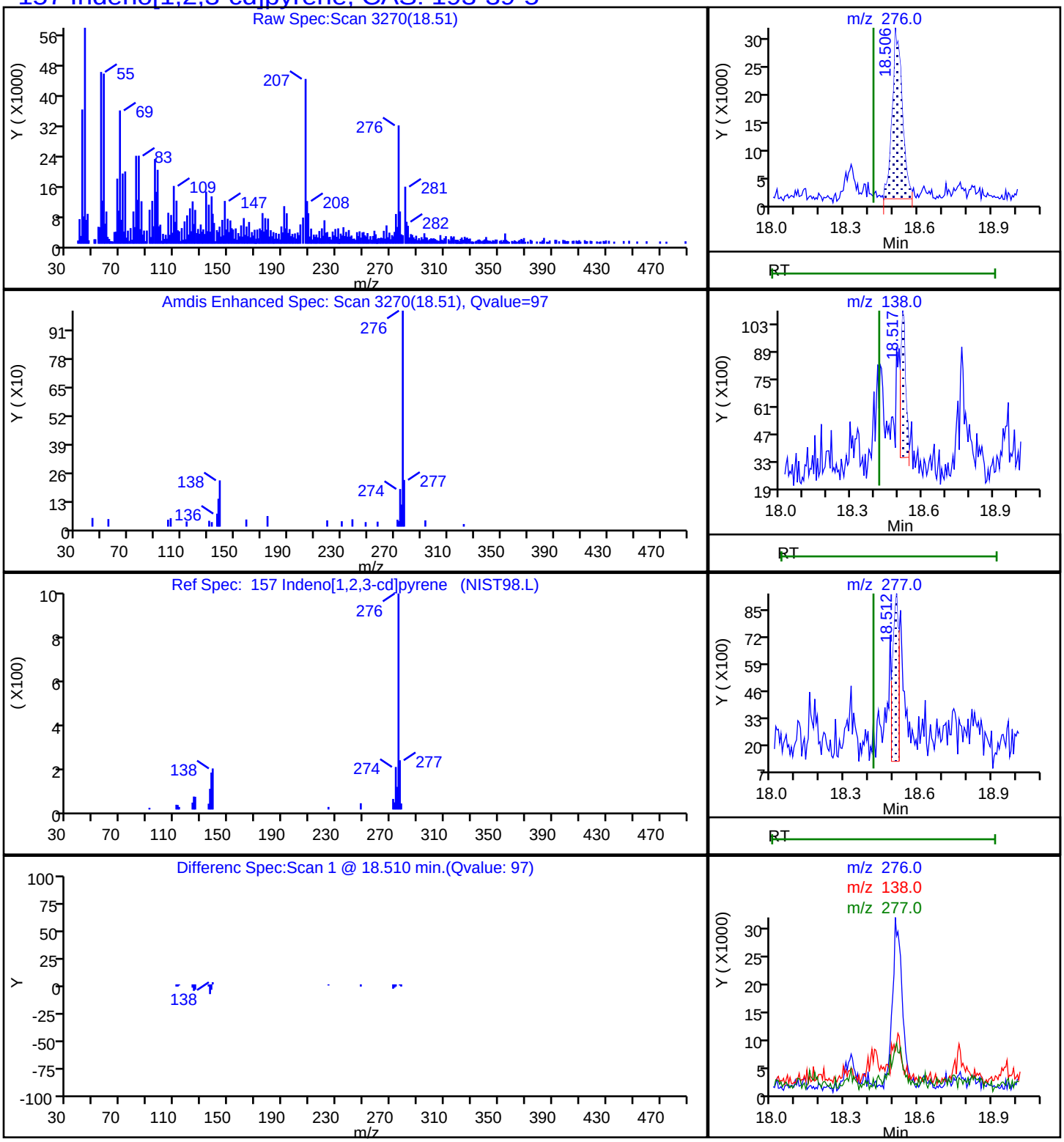


Report Date: 15-Oct-2018 09:20:02 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014024.D				
Injection Date:	14-Oct-2018 22:06:30	Instrument ID:	CH71		
Lims ID:	180-82446-C-6-B	Lab Sample ID:	180-82446-6		
Client ID:	POS-SED-L15-S2 (5-10')				
Operator ID:	001562	ALS Bottle#:	23	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

157 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

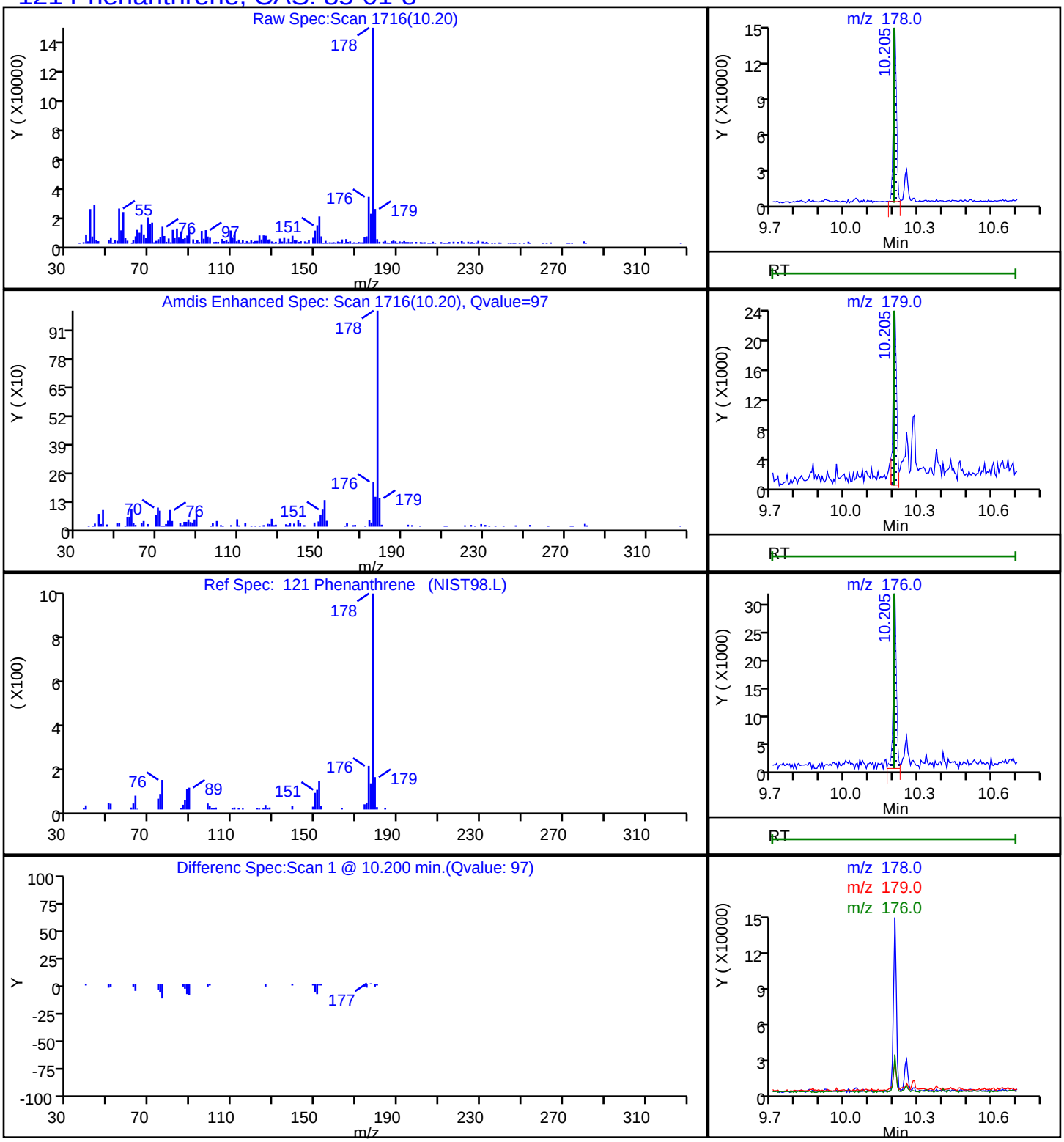


Report Date: 15-Oct-2018 09:20:01 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014024.D				
Injection Date:	14-Oct-2018 22:06:30	Instrument ID:	CH71		
Lims ID:	180-82446-C-6-B	Lab Sample ID:	180-82446-6		
Client ID:	POS-SED-L15-S2 (5-10')				
Operator ID:	001562	ALS Bottle#:	23	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

121 Phenanthrene, CAS: 85-01-8

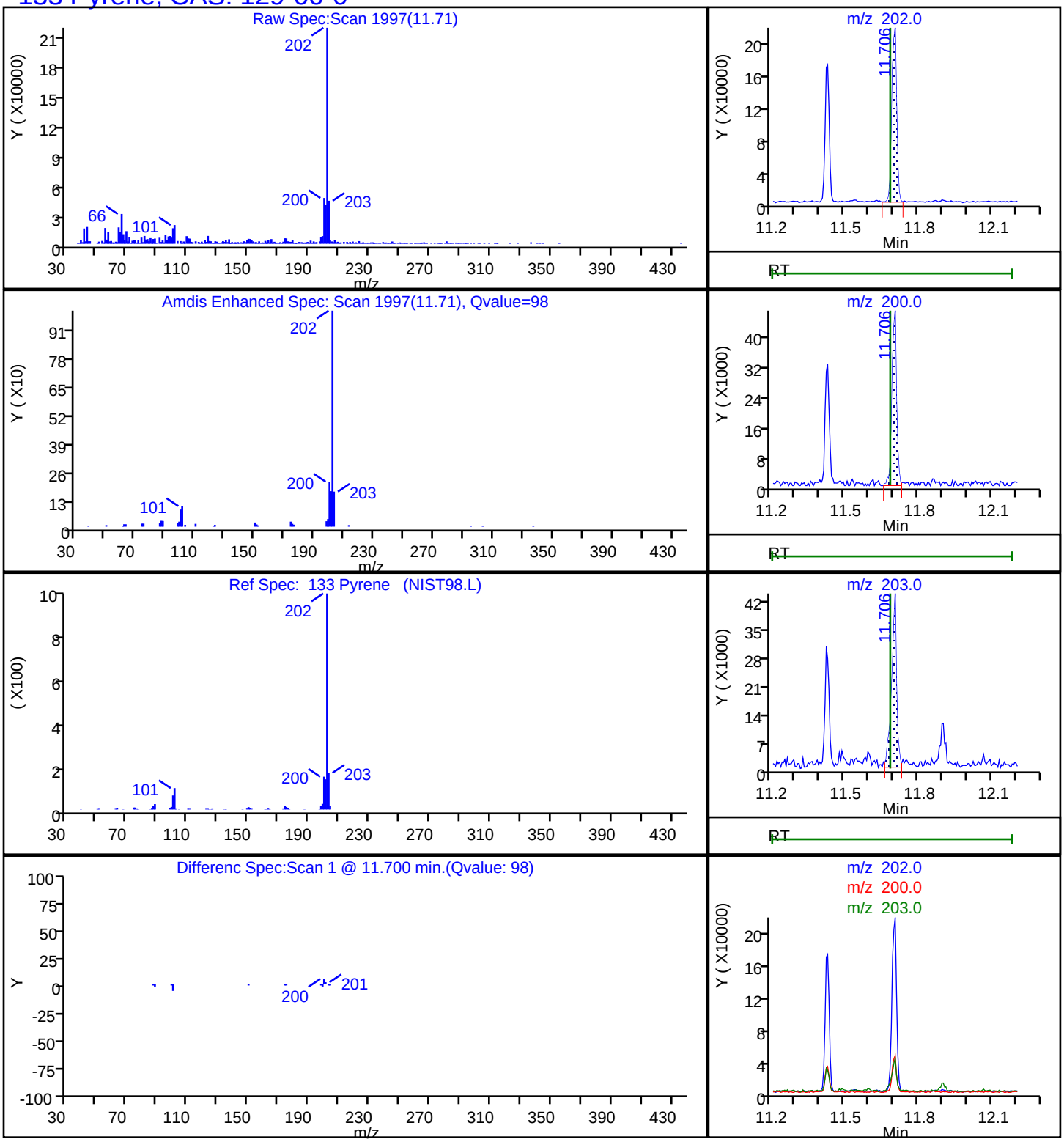


Report Date: 15-Oct-2018 09:20:02 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014024.D				
Injection Date:	14-Oct-2018 22:06:30	Instrument ID:	CH71		
Lims ID:	180-82446-C-6-B	Lab Sample ID:	180-82446-6		
Client ID:	POS-SED-L15-S2 (5-10')				
Operator ID:	001562	ALS Bottle#:	23	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

133 Pyrene, CAS: 129-00-0

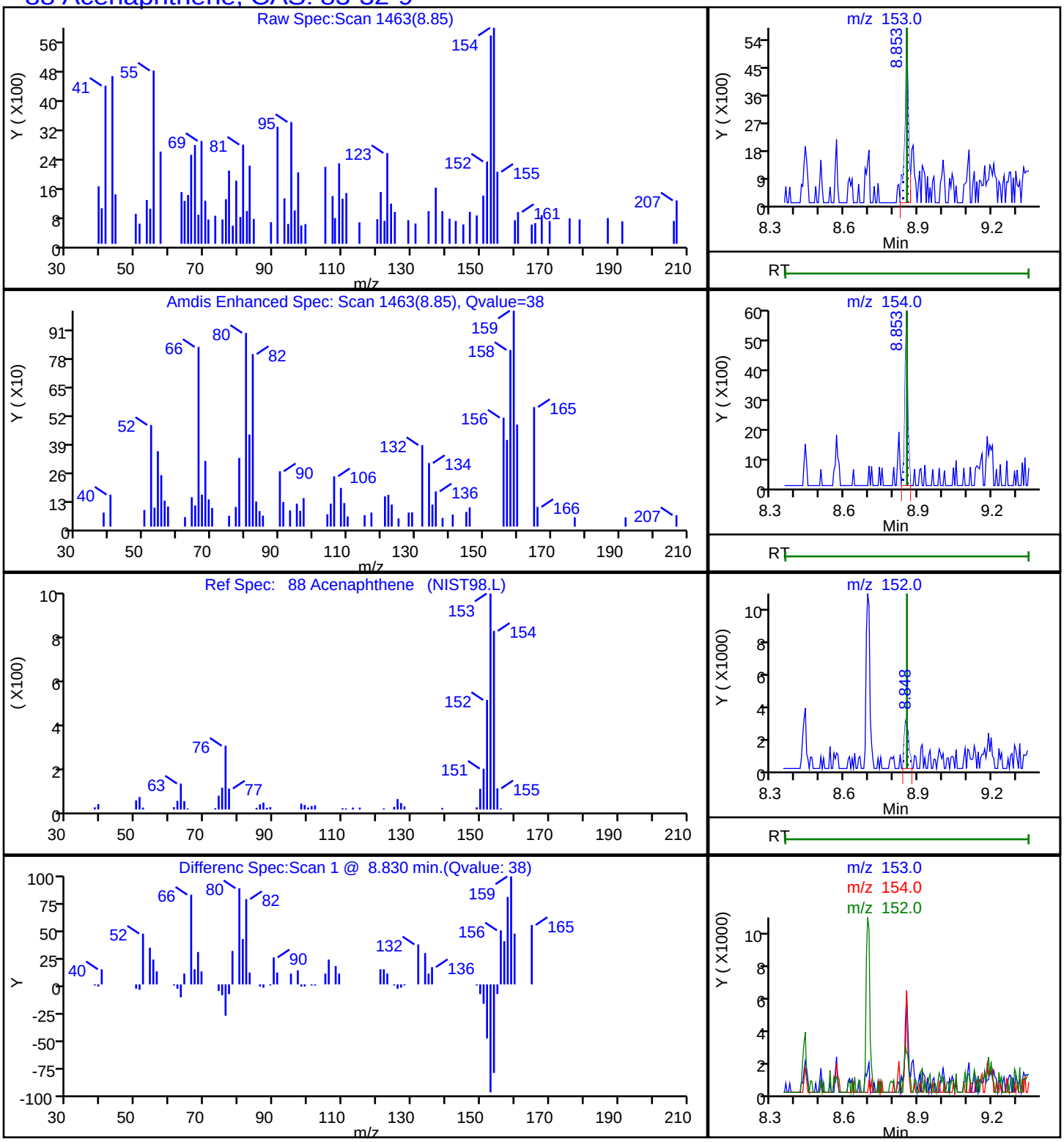


Report Date: 15-Oct-2018 09:20:01 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014024.D				
Injection Date:	14-Oct-2018 22:06:30	Instrument ID:	CH71		
Lims ID:	180-82446-C-6-B	Lab Sample ID:	180-82446-6		
Client ID:	POS-SED-L15-S2 (5-10')				
Operator ID:	001562	ALS Bottle#:	23	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

88 Acenaphthene, CAS: 83-32-9

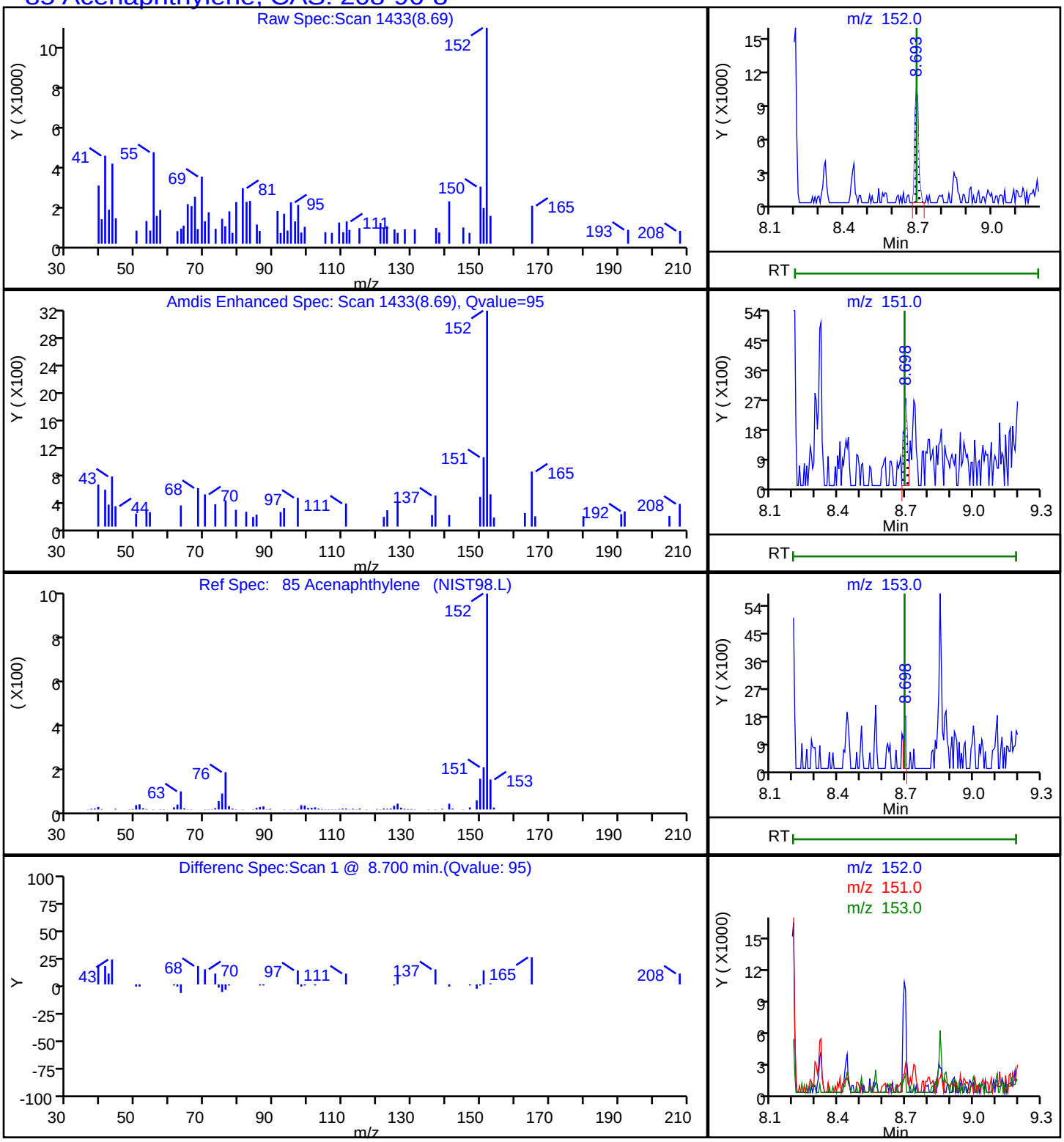


Report Date: 15-Oct-2018 09:20:01 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014024.D				
Injection Date:	14-Oct-2018 22:06:30	Instrument ID:	CH71		
Lims ID:	180-82446-C-6-B	Lab Sample ID:	180-82446-6		
Client ID:	POS-SED-L15-S2 (5-10')				
Operator ID:	001562	ALS Bottle#:	23	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

85 Acenaphthylene, CAS: 208-96-8

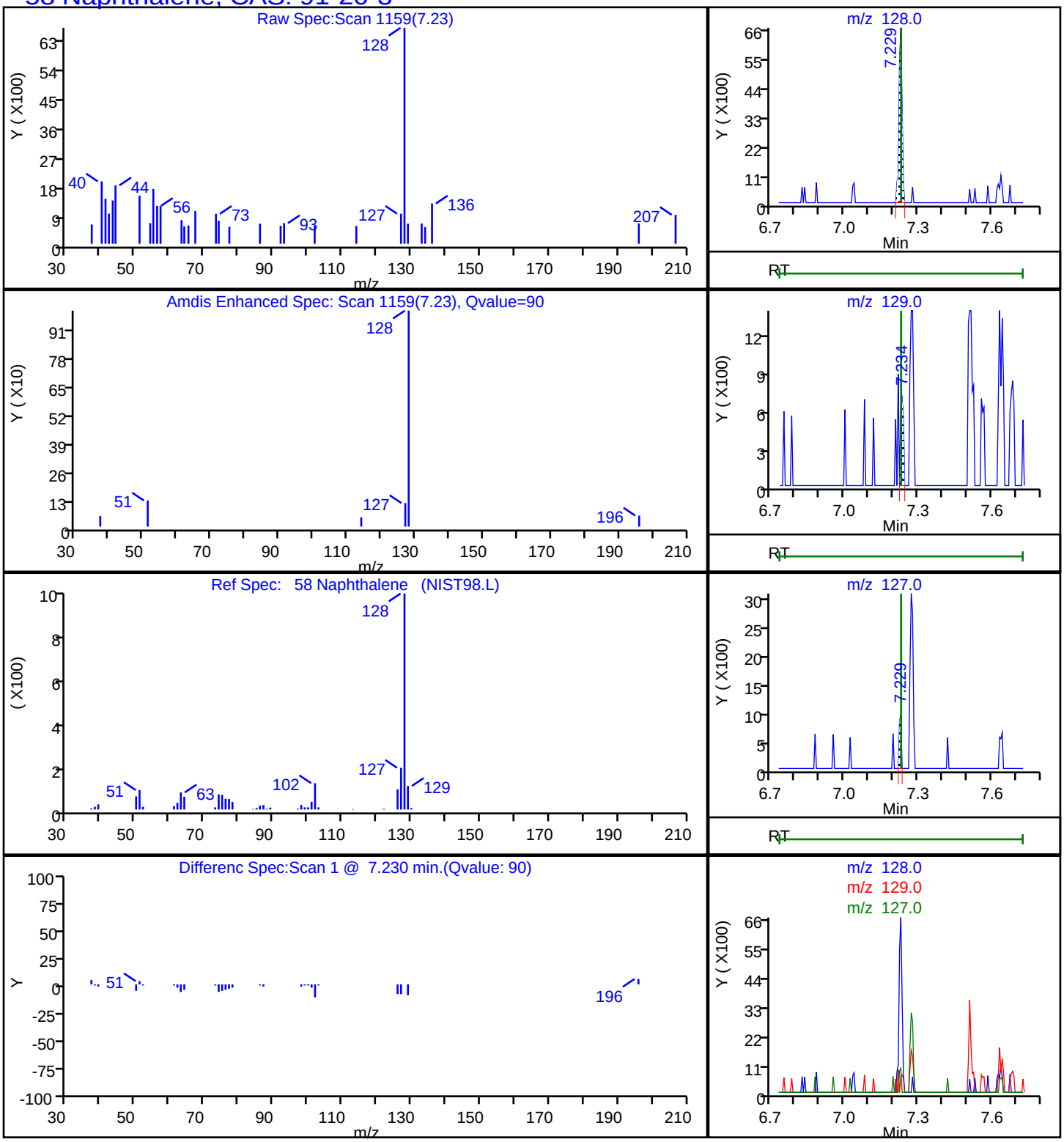


Report Date: 15-Oct-2018 09:20:01 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014024.D				
Injection Date:	14-Oct-2018 22:06:30	Instrument ID:	CH71		
Lims ID:	180-82446-C-6-B	Lab Sample ID:	180-82446-6		
Client ID:	POS-SED-L15-S2 (5-10')				
Operator ID:	001562	ALS Bottle#:	23	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

58 Naphthalene, CAS: 91-20-3



Manual Integration/User Assign Peak Report

TestAmerica Pittsburgh

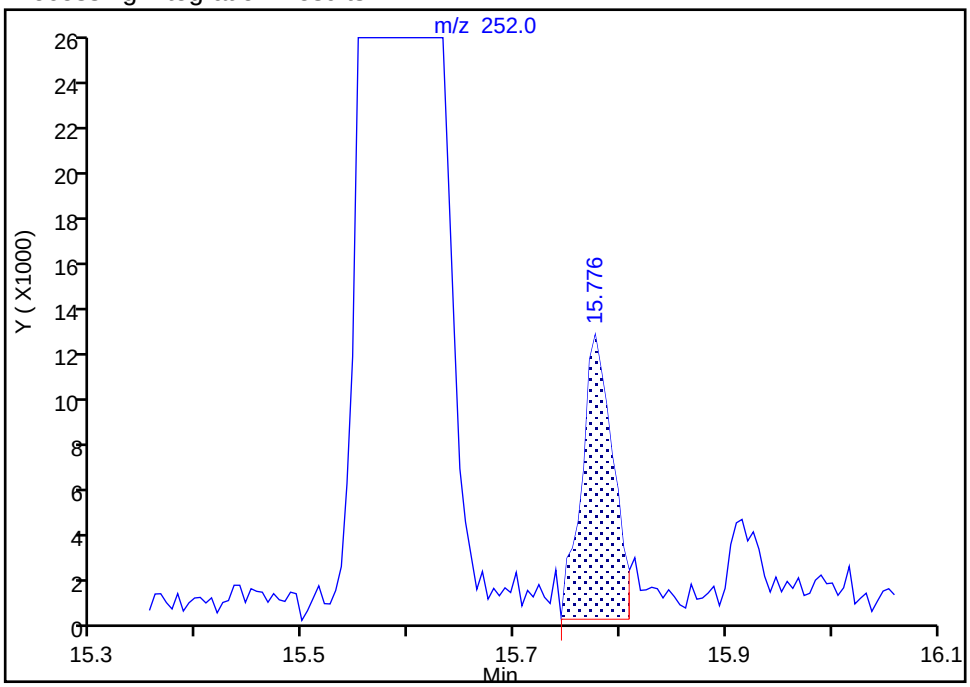
Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014024.D				
Injection Date:	14-Oct-2018 22:06:30	Instrument ID:	CH71		
Lims ID:	180-82446-C-6-B	Lab Sample ID:	180-82446-6		
Client ID:	POS-SED-L15-S2 (5-10')				
Operator ID:	001562	ALS Bottle#:	23	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

153 Benzo[k]fluoranthene, CAS: 207-08-9

Signal: 1

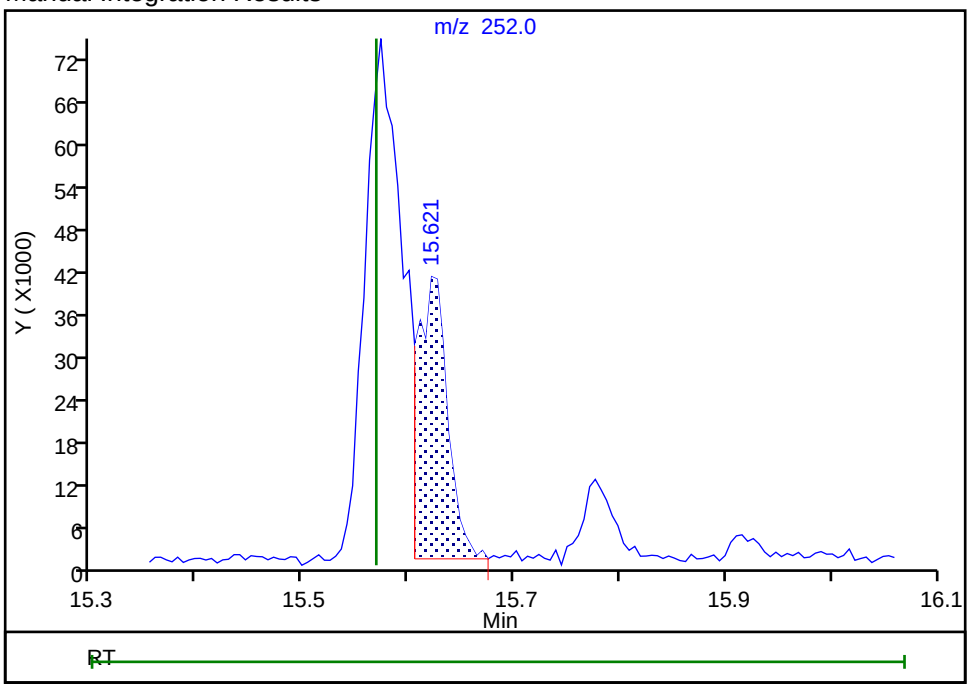
Processing Integration Results

RT: 15.78
Area: 24401
Amount: 0.231585
Amount Units: ng



Manual Integration Results

RT: 15.62
Area: 78233
Amount: 0.742493
Amount Units: ng



Reviewer: fergusond, 15-Oct-2018 09:19:31

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pittsburgh

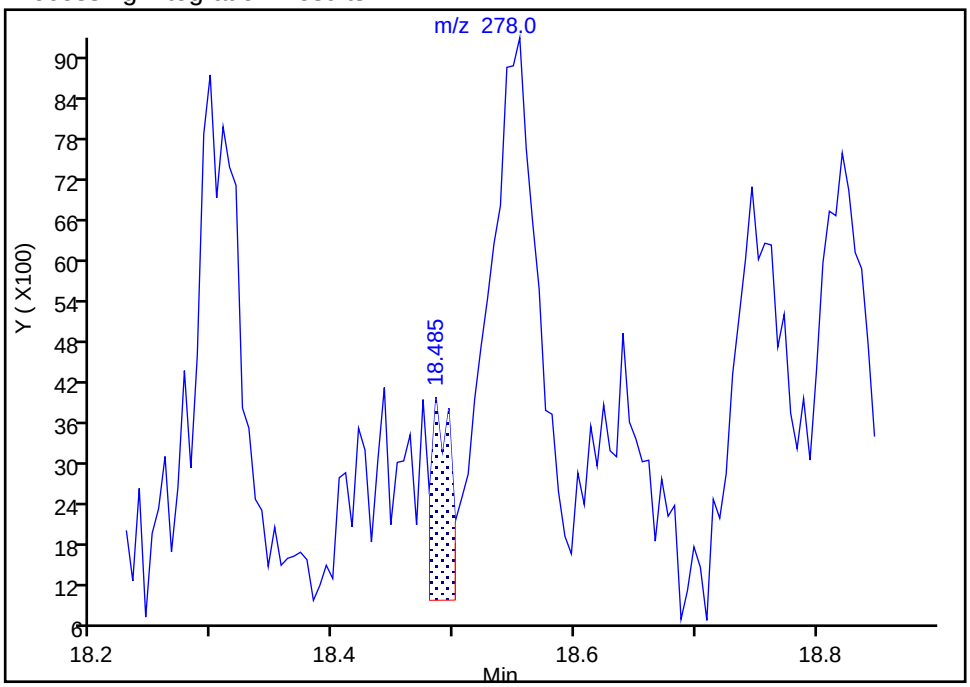
Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014024.D				
Injection Date:	14-Oct-2018 22:06:30	Instrument ID:	CH71		
Lims ID:	180-82446-C-6-B	Lab Sample ID:	180-82446-6		
Client ID:	POS-SED-L15-S2 (5-10')				
Operator ID:	001562	ALS Bottle#:	23	Worklist Smp#:	24
Injection Vol:	2.0 ul	Dil. Factor:	5.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

158 Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

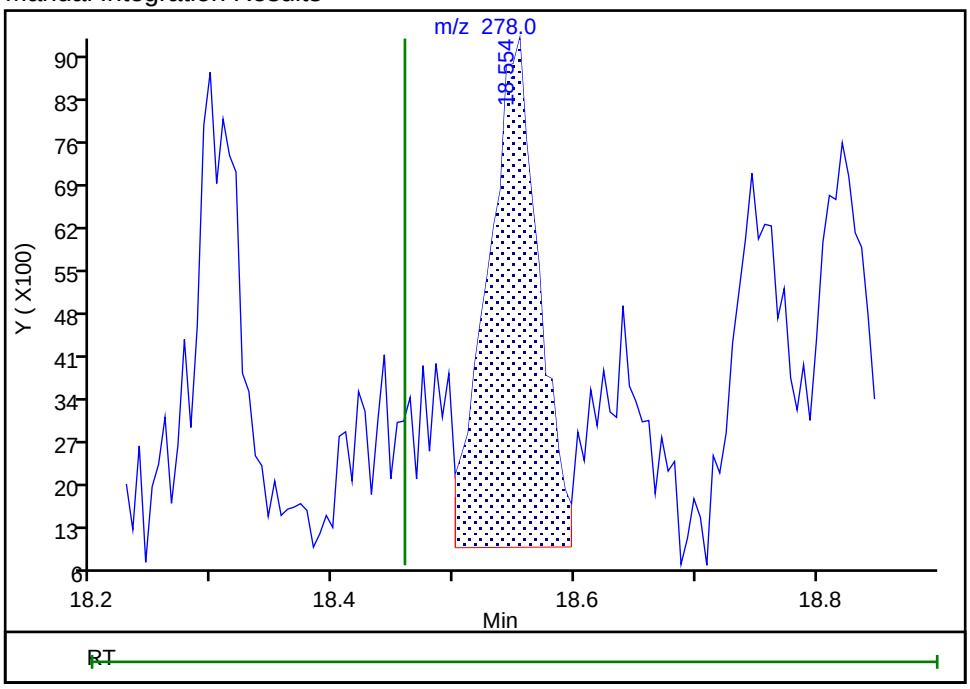
Processing Integration Results

RT: 18.48
Area: 3410
Amount: 0.036031
Amount Units: ng



Manual Integration Results

RT: 18.55
Area: 24445
Amount: 0.258295
Amount Units: ng



Reviewer: fergusond, 15-Oct-2018 09:19:44
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1 Analy Batch No.: 242236

SDG No.:

Instrument ID: CH71 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/16/2018 09:38 Calibration End Date: 04/16/2018 12:53 Calibration ID: 37653

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-242236/3	S0416003.D
Level 2	IC 180-242236/4	S0416004.D
Level 3	IC 180-242236/5	S0416005.D
Level 4	ICIS 180-242236/6	S0416006.D
Level 5	IC 180-242236/7	S0416007.D
Level 6	IC 180-242236/8	S0416008.D
Level 7	IC 180-242236/9	S0416009.D
Level 8	IC 180-242236/10	S0416010.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	+++++ 0.4540	0.4364 0.4423	0.4530 0.4387	0.4657	0.4565	Ave		0.4495			0.0100	2.4		50.0			
N-Nitrosodimethylamine	0.5331 0.6526	0.5984 0.6351	0.6560 0.6413	0.6612	0.6512	Ave		0.6286			0.0100	6.9		20.0			
Pyridine	1.1757 1.1703	1.1516 1.1083	1.2198 1.0803	1.1862	1.1962	Ave		1.1611			0.0100	4.0		50.0			
Methyl methanesulfonate	0.8365 0.7004	0.7232 0.6479	0.7666 0.6261	0.6478	0.7171	Ave		0.7082			0.0100	9.9		50.0			
Benzaldehyde	0.9763 0.9779	0.9309 0.8880	0.9588 0.7175	1.0639	1.0674	Ave		0.9476			0.0100	11.7		50.0			
Phenol	1.8584 1.8357	1.8705 1.7078	1.8350 1.7013	1.8490	1.8446	Ave		1.8128			0.8000	3.7		20.0			
Aniline	2.1080 2.0711	2.0792 1.8949	2.1657 1.6581	2.0185	2.1090	Ave		2.0131			0.0100	8.2		20.0			
Bis(2-chloroethyl)ether	1.5009 1.3197	1.2930 1.2820	1.3740 1.2708	1.3257	1.3430	Ave		1.3386			0.7000	5.5		20.0			
2-Chlorophenol	1.3802 1.3913	1.2760 1.3342	1.3467 1.3364	1.3765	1.3928	Ave		1.3543			0.8000	2.9		20.0			
n-Decane	1.1615 1.0733	1.1401 1.0186	1.1535 0.9974	1.1410	1.1275	Ave		1.1016				5.8		20.0			
1,3-Dichlorobenzene	1.9087 1.5690	1.6328 1.5070	1.6151 1.5229	1.6249	1.5710	Ave		1.6189			0.0100	7.8		20.0			
1,4-Dichlorobenzene	1.7712 1.5804	1.6305 1.5205	1.6375 1.5249	1.6172	1.5838	Ave		1.6083			0.0100	4.9		20.0			
Benzyl alcohol	0.8083 0.9187	0.8092 0.9009	0.8507 0.9055	0.8864	0.9188	Ave		0.8748			0.0100	5.3		50.0			
1,2-Dichlorobenzene	1.7944 1.4833	1.5512 1.4321	1.5530 1.4593	1.5187	1.5078	Ave		1.5375			0.0100	7.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1 Analy Batch No.: 242236

SDG No.:

Instrument ID: CH71 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/16/2018 09:38 Calibration End Date: 04/16/2018 12:53 Calibration ID: 37653

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Indene	2.3936 2.3807	2.3560 2.2882	2.4185 2.3227	2.3949	2.4080	Ave		2.3703			0.0100	1.9		20.0			
2-Methylphenol	1.2653 1.2558	1.2097 1.1818	1.3483 1.1895	1.2729	1.2653	Ave		1.2486			0.7000	4.3		20.0			
2,2'-oxybis[1-chloropropane]	1.6664 1.4116	1.5865 1.3436	1.5768 1.3047	1.4739	1.4724	Ave		1.4795			0.0100	8.5		50.0			
N-Nitrosopyrrolidine	0.4828 0.6168	0.4940 0.5999	0.5568 0.6146	0.5671	0.6009	Ave		0.5666			0.0100	9.3		50.0			
Acetophenone	1.8842 1.9444	1.9947 1.8448	2.0031 1.8233	2.0110	1.9965	Ave		1.9377			0.0100	3.9		20.0			
N-Nitrosodi-n-propylamine	0.8422 0.8666	0.8575 0.8039	0.9425 0.7874	0.8861	0.8914	Ave		0.8597			0.5000	5.8		20.0			
Methylphenol, 3 & 4	1.3107 1.3191	1.2064 1.2621	1.3918 1.2553	1.3639	1.3398	Ave		1.3061			0.6000	4.7		20.0			
Hexachloroethane	0.5747 0.6394	0.5913 0.6161	0.6514 0.6281	0.6396	0.6364	Ave		0.6221			0.3000	4.3		20.0			
Nitrobenzene	0.3229 0.3922	0.3587 0.3858	0.4021 0.3749	0.3932	0.3977	Ave		0.3784			0.2000	7.0		20.0			
Isophorone	0.6280 0.7184	0.6154 0.6983	0.6691 0.6886	0.7097	0.7118	Ave		0.6799			0.4000	5.8		20.0			
2-Nitrophenol	0.1320 0.1916	0.1431 0.1951	0.1651 0.1951	0.1766	0.1868	Ave		0.1732			0.1000	14.1		20.0			
2,4-Dimethylphenol	0.3618 0.3929	0.3862 0.3880	0.4083 0.3823	0.3944	0.3965	Ave		0.3888			0.2000	3.5		50.0			
Benzoic acid	+++++ 0.1889	0.1557 0.2113	0.1810 +++++	0.1476	0.1632	Ave		0.1746			0.0100	13.6		50.0			
Bis(2-chloroethoxy)methane	0.4905 0.4295	0.4109 0.4140	0.4379 0.4191	0.4315	0.4246	Ave		0.4322			0.3000	5.8		20.0			
2,4-Dichlorophenol	0.3033 0.3401	0.3117 0.3337	0.3263 0.3282	0.3301	0.3341	Ave		0.3259			0.2000	3.8		20.0			
1,2,4-Trichlorobenzene	0.4399 0.3878	0.4074 0.3765	0.3980 0.3787	0.3885	0.3891	Ave		0.3957			0.0100	5.1		20.0			
Naphthalene	1.1988 1.0710	1.0481 1.0676	1.0976 1.0549	1.0758	1.0564	Ave		1.0838			0.7000	4.5		20.0			
4-Chloroaniline	0.4017 0.4583	0.4019 0.4455	0.4459 0.4183	0.4319	0.4426	Ave		0.4308			0.0100	4.9		20.0			
2,6-Dichlorophenol	0.2951 0.3236	0.3167 0.3238	0.3347 0.3200	0.3244	0.3277	Ave		0.3207			0.0100	3.6		20.0			
Hexachlorobutadiene	0.2754 0.2831	0.2771 0.2772	0.2732 0.2721	0.2745	0.2773	Ave		0.2762			0.0100	1.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1 Analy Batch No.: 242236

SDG No.:

Instrument ID: CH71 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/16/2018 09:38 Calibration End Date: 04/16/2018 12:53 Calibration ID: 37653

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Caprolactam	+++++ 0.1146	0.0815 0.1157	0.0917 0.1141	0.0984	0.1072	Ave		0.1033			0.0100	12.8		50.0			
4-Chloro-3-methylphenol	0.3011 0.3459	0.3106 0.3477	0.3258 0.3447	0.3411	0.3417	Ave		0.3323			0.2000	5.4		20.0			
2-Methylnaphthalene	0.7737 0.7233	0.6724 0.7363	0.7028 0.7234	0.6981	0.7019	Ave		0.7165			0.4000	4.2		20.0			
1-Methylnaphthalene	0.6929 0.6709	0.6312 0.6828	0.6507 0.6770	0.6606	0.6549	Ave		0.6651			0.0100	3.0		20.0			
Hexachlorocyclopentadiene	0.4508 0.6165	0.4606 0.6084	0.5092 0.5930	0.5521	0.5914	Ave		0.5477			0.0500	12.1		50.0			
1,2,4,5-Tetrachlorobenzene	0.9148 0.8278	0.8261 0.8296	0.8197 0.7899	0.8289	0.8362	Ave		0.8341			0.0100	4.3		20.0			
2,4,6-Trichlorophenol	0.4372 0.5344	0.4732 0.5423	0.4904 0.5149	0.5068	0.5377	Ave		0.5046			0.2000	7.2		20.0			
2,4,5-Trichlorophenol	0.4536 0.5648	0.5235 0.5675	0.5448 0.5517	0.5611	0.5630	Ave		0.5412			0.2000	7.1		20.0			
1,1'-Biphenyl	1.5847 1.5737	1.6147 1.6128	1.5415 1.5598	1.5926	1.5756	Ave		1.5819			0.0100	1.6		20.0			
2-Chloronaphthalene	1.3123 1.3118	1.2981 1.3109	1.3159 1.2498	1.3149	1.3004	Ave		1.3018			0.8000	1.7		20.0			
2-Nitroaniline	+++++ 0.4168	0.2794 0.4104	0.3415 0.3935	0.3728	0.4144	Ave		0.3755			0.0100	13.4		20.0			
Dimethyl phthalate	1.4756 1.5978	1.4140 1.6075	1.5475 1.5643	1.5508	1.6126	Ave		1.5463			0.0100	4.5		20.0			
1,3-Dinitrobenzene	+++++ 0.2407	0.1301 0.2420	0.1706 0.2452	0.2120	0.2325	Lin2	-0.241	0.2433			0.0100				0.9990		0.9900
2,6-Dinitrotoluene	+++++ 0.3419	0.2371 0.3420	0.2917 0.3346	0.3221	0.3383	Ave		0.3154			0.2000	12.3		20.0			
Acenaphthylene	1.5768 1.8665	1.6845 1.8922	1.7369 1.8412	1.8132	1.8580	Ave		1.7836			0.9000	6.1		20.0			
3-Nitroaniline	+++++ 0.3505	0.2613 0.3530	0.2982 0.3436	0.3242	0.3480	Ave		0.3255			0.0100	10.6		20.0			
Acenaphthene	1.2333 1.2407	1.1892 1.2337	1.1718 1.1961	1.2063	1.2229	Ave		1.2118			0.9000	2.0		20.0			
2,4-Dinitrophenol	+++++ 0.2785	0.1740 0.2931	0.2113 0.2904	0.2158	0.2472	Lin2	-0.448	0.2749			0.0100				0.9920		0.9900
4-Nitrophenol	+++++ 0.3143	0.2593 0.3112	0.2916 0.2942	0.3169	0.3216	Ave		0.3013			0.0100	7.2		50.0			
2,4-Dinitrotoluene	+++++ 0.4714	0.3335 0.4749	0.3892 0.4696	0.4476	0.4611	Ave		0.4353			0.2000	12.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1 Analy Batch No.: 242236

SDG No.:

Instrument ID: CH71 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/16/2018 09:38 Calibration End Date: 04/16/2018 12:53 Calibration ID: 37653

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Dibenzofuran	1.8351 1.8165	1.7816 1.8440	1.8014 1.7819	1.7711	1.8389	Ave		1.8088			0.8000	1.6		20.0			
2,3,5,6-Tetrachlorophenol	0.3740 0.5047	0.4068 0.5188	0.4448 0.5047	0.4685	0.4879	Ave		0.4638			0.0100	11.1		20.0			
2,3,4,6-Tetrachlorophenol	0.4375 0.4930	0.4308 0.5098	0.4533 0.4931	0.4663	0.4929	Ave		0.4721			0.0100	6.2		20.0			
2-Naphthylamine	1.0525 1.1792	1.1220 1.1353	1.1269 0.9265	1.0946	1.1933	Ave		1.1038			0.0100	7.6		50.0			
Diethyl phthalate	1.3874 1.5360	1.4203 1.5428	1.4486 1.4989	1.5168	1.5295	Ave		1.4850			0.0100	4.0		20.0			
Hexadecane	0.4462 0.4568	0.4488 0.4266	0.5061 0.4105	0.5063	0.4735	Ave		0.4594				7.5		20.0			
4-Chlorophenyl phenyl ether	0.9071 0.9124	0.8287 0.9246	0.8552 0.8905	0.8461	0.8753	Ave		0.8800			0.4000	3.9		20.0			
4-Nitroaniline	+++++ 0.3752	0.2630 0.3812	0.3130 0.3587	0.3603	0.3672	Ave		0.3455			0.0100	12.3		20.0			
Fluorene	1.4668 1.4918	1.3994 1.5384	1.4109 1.4719	1.4558	1.4819	Ave		1.4646			0.9000	3.0		20.0			
4,6-Dinitro-2-methylphenol	+++++ 0.1483	0.0883 0.1559	0.1101 0.1600	0.1341	0.1417	Lin2	-0.280	0.1532			0.0100				0.9980		0.9900
N-Nitrosodiphenylamine	0.4670 0.5273	0.4935 0.5556	0.5248 0.5612	0.5400	0.5365	Ave		0.5257			0.0100	6.0		20.0			
1,2-Diphenylhydrazine(as Azobenzene)	0.5964 0.7156	0.6985 0.7012	0.7428 0.6873	0.7471	0.7400	Ave		0.7036			0.0100	6.9		20.0			
4-Bromophenyl phenyl ether	0.2408 0.2468	0.2325 0.2605	0.2448 0.2651	0.2468	0.2430	Ave		0.2475			0.1000	4.3		20.0			
Hexachlorobenzene	0.2584 0.2578	0.2458 0.2743	0.2488 0.2714	0.2644	0.2545	Ave		0.2594			0.1000	3.9		20.0			
Atrazine	+++++ 0.2762	0.2082 0.3058	0.2266 +++++	0.2166	0.2466	Lin1	-0.278	0.2903			0.0100				0.9910		0.9900
Pentachlorophenol	0.2051 0.1896	0.1532 0.2034	0.1853 0.1962	0.1649	0.1826	Ave		0.1850			0.0500	9.8		50.0			
n-Octadecane	1.6092 1.9216	1.8021 1.8055	1.9220 1.7520	1.9801	2.0061	Ave		1.8498				7.2		20.0			
Phenanthrene	1.1219 1.0606	1.0070 1.0964	1.0304 1.0980	1.0634	1.0421	Ave		1.0650			0.7000	3.6		20.0			
Anthracene	0.9463 1.0918	1.0038 1.1382	1.0263 1.1534	1.0780	1.1027	Ave		1.0676			0.7000	6.6		20.0			
Carbazole	0.8305 0.9646	0.8744 0.9896	0.9230 0.9884	0.9480	0.9490	Ave		0.9334			0.0100	6.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1 Analy Batch No.: 242236

SDG No.:

Instrument ID: CH71 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/16/2018 09:38 Calibration End Date: 04/16/2018 12:53 Calibration ID: 37653

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Di-n-butyl phthalate	0.8358 1.2152	1.0002 1.2343	1.0670 1.2213	1.1879	1.1822	Ave		1.1180			0.0100	12.6		20.0			
Fluoranthene	1.1351 1.3696	1.1639 1.4134	1.2504 1.3879	1.3033	1.3467	Ave		1.2963			0.6000	8.0		20.0			
Benzidine	+++++ 0.5857	0.3618 0.5146	0.4060 +++++	0.4793	0.6125	Lin1	-0.430	0.5609			0.0100				0.9910		0.9900
Pyrene	1.0889 1.2403	1.1607 1.2453	1.1877 1.2192	1.1713	1.2317	Ave		1.1931			0.6000	4.4		20.0			
Butyl benzyl phthalate	+++++ 0.5013	0.3707 0.4956	0.3969 0.4955	0.4360	0.4973	Ave		0.4562			0.0100	12.0		20.0			
3,3'-Dichlorobenzidine	+++++ 0.4683	0.3293 0.4907	0.3567 0.4814	0.3933	0.4377	Lin2	-0.317	0.4657			0.0100				0.9950		0.9900
Benzo[a]anthracene	1.1097 1.2484	1.1022 1.2908	1.1803 1.2502	1.1496	1.2289	Ave		1.1950			0.8000	5.9		20.0			
Bis(2-ethylhexyl) phthalate	+++++ 0.6837	0.4990 0.6891	0.5770 0.6646	0.6152	0.6830	Ave		0.6302			0.0100	11.3		20.0			
Chrysene	1.1537 1.1213	1.0923 1.1248	1.1314 1.1542	1.0859	1.1020	Ave		1.1207			0.7000	2.3		20.0			
Di-n-octyl phthalate	+++++ 1.4165	0.8043 1.4404	0.9087 1.3949	1.1731	1.3071	Lin2	-1.338	1.3888			0.0100				0.9940		0.9900
7,12-Dimethylbenz(a)anthracene	+++++ 0.7203	0.5273 0.7420	0.5520 0.7433	0.6098	0.6573	Ave		0.6503			0.0100	13.8		20.0			
Benzo[b]fluoranthene	1.2516 1.5294	1.2527 1.5874	1.3424 1.6022	1.4275	1.4754	Ave		1.4336			0.7000	9.8		20.0			
Benzo[k]fluoranthene	1.1572 1.4190	1.1416 1.4239	1.2455 1.3703	1.2808	1.3160	Ave		1.2943			0.7000	8.4		20.0			
Benzo[e]pyrene	1.1170 1.3568	1.0955 1.3558	1.1379 1.3144	1.2213	1.2535	Ave		1.2315			0.0100	8.6		20.0			
Benzo[a]pyrene	1.0015 1.3150	1.0141 1.3831	1.1272 1.3224	1.2093	1.2314	Ave		1.2005			0.7000	11.9		20.0			
Indeno[1,2,3-cd]pyrene	1.1604 1.4959	1.2063 1.5800	1.2697 1.5432	1.3508	1.3952	Ave		1.3752			0.5000	11.4		20.0			
Dibenz(a,h)anthracene	0.9353 1.2567	1.0205 1.3550	1.0784 1.3405	1.1395	1.1744	Ave		1.1625			0.4000	12.9		20.0			
Benzo[g,h,i]perylene	1.0188 1.2085	1.0029 1.2805	1.0519 1.2437	1.1266	1.1494	Ave		1.1353			0.5000	9.2		20.0			
2-Fluorophenol (Surr)	1.2634 1.3095	1.1568 1.2622	1.2529 1.2709	1.2700	1.2882	Ave		1.2592				3.6		20.0			
Phenol-d5 (Surr)	1.4644 1.6469	1.5625 1.5766	1.6487 1.5899	1.6261	1.6494	Ave		1.5956				4.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1 Analy Batch No.: 242236

SDG No.:

Instrument ID: CH71 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/16/2018 09:38 Calibration End Date: 04/16/2018 12:53 Calibration ID: 37653

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Nitrobenzene-d5 (Surr)	0.2880 0.3976	0.3485 0.3847	0.3656 0.3847	0.3754	0.3882	Ave		0.3666				9.6		20.0			
2-Fluorobiphenyl	1.6751 1.6572	1.6186 1.6831	1.6624 1.6211	1.6712	1.6610	Ave		1.6562				1.4		20.0			
2,4,6-Tribromophenol (Surr)	0.0909 0.1130	0.0918 0.1207	0.0997 0.1226	0.1096	0.1092	Ave		0.1072			0.0100	11.3		20.0			
Terphenyl-d14 (Surr)	0.8049 0.8926	0.7940 0.9222	0.8268 0.8931	0.8323	0.8860	Ave		0.8565				5.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1 Analy Batch No.: 242236

SDG No.:

Instrument ID: CH71 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/16/2018 09:38 Calibration End Date: 04/16/2018 12:53 Calibration ID: 37653

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 180-242236/3	S0416003.D
Level 2	IC 180-242236/4	S0416004.D
Level 3	IC 180-242236/5	S0416005.D
Level 4	ICIS 180-242236/6	S0416006.D
Level 5	IC 180-242236/7	S0416007.D
Level 6	IC 180-242236/8	S0416008.D
Level 7	IC 180-242236/9	S0416009.D
Level 8	IC 180-242236/10	S0416010.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,4-Dioxane	DCBd 4	Ave	+++++ 303587	15019 462153	31070 575941	72930	158223	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
N-Nitrosodimethylamine	DCBd 4	Ave	3595 436345	20597 663643	44987 841968	103548	225701	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Pyridine	DCBd 4	Ave	15858 1565100	79275 2316239	167315 2836859	371518	829196	0.760 80.0	4.00 120	8.00 160	20.0	40.0
Methyl methanesulfonate	DCBd 4	Ave	5641 468337	24890 676963	52572 822107	101445	248538	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzaldehyde	DCBd 4	Ave	6584 653881	32041 927916	65756 942002	166596	369944	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Phenol	DCBd 4	Ave	12533 1227460	64378 1784515	125847 2233697	289548	639316	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Aniline	DCBd 4	Ave	14216 1384893	71561 1980029	148526 2177057	316082	730966	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Bis(2-chloroethyl)ether	DCBd 4	Ave	10122 882443	44503 1339607	94233 1668472	207596	465462	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2-Chlorophenol	DCBd 4	Ave	9308 930354	43917 1394121	92361 1754676	215555	482749	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
n-Decane	DCBd 4	Ave	7833 717675	39239 1064384	79113 1309611	178682	390797	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1,3-Dichlorobenzene	DCBd 4	Ave	12872 1049125	56199 1574651	110770 1999522	254445	544510	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1,4-Dichlorobenzene	DCBd 4	Ave	11945 1056773	56119 1588810	112307 2002196	253250	548918	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzyl alcohol	DCBd 4	Ave	5451 614280	27850 941398	58340 1188846	138811	318440	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1,2-Dichlorobenzene	DCBd 4	Ave	12101 991859	53389 1496430	106509 1916046	237817	522608	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Indene	DCBd 4	Ave	16142 1591931	81088 2390956	165868 3049594	375025	834608	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1 Analy Batch No.: 242236

SDG No.:

Instrument ID: CH71 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/16/2018 09:38 Calibration End Date: 04/16/2018 12:53 Calibration ID: 37653

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
2-Methylphenol	DCBd 4	Ave	8533 839725	41635 1234924	92468 1561787	199322	438537	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,2'-oxybis[1-chloropropane]	DCBd 4	Ave	11238 943866	54605 1403926	108142 1712979	230808	510332	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
N-Nitrosopyrrolidine	DCBd 4	Ave	3256 412464	17004 626821	38188 806991	88800	208272	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Acetophenone	DCBd 4	Ave	12707 1300166	68655 1927628	137378 2393915	314914	691958	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
N-Nitrosodi-n-propylamine	DCBd 4	Ave	5680 579458	29515 840007	64636 1033868	138761	308948	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Methylphenol, 3 & 4	DCBd 4	Ave	8839 882028	41522 1318761	95456 1648152	213583	464376	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Hexachloroethane	DCBd 4	Ave	3876 427540	20353 643750	44677 824705	100151	220558	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Nitrobenzene	NPT	Ave	8402 989568	45654 1497484	103004 1848657	229257	521313	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Isophorone	NPT	Ave	16338 1812392	78322 2710584	171375 3395681	413817	932963	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2-Nitrophenol	NPT	Ave	3435 483505	18215 757302	42292 962146	102973	244856	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,4-Dimethylphenol	NPT	Ave	9414 991174	49154 1506269	104572 1885281	229972	519637	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzoic acid	NPT	Ave	+++++ 476504	19816 820149	46373 +++++	86064	213892	+++++ 40.0	2.00 60.0	4.00 +++++	10.0	20.0
Bis(2-chloroethoxy)methane	NPT	Ave	12760 1083491	52293 1607109	112177 2066830	251625	556513	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,4-Dichlorophenol	NPT	Ave	7892 858148	39666 1295262	83583 1618618	192458	437847	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1,2,4-Trichlorobenzene	NPT	Ave	11444 978331	51847 1461577	101956 1867738	226539	510005	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Naphthalene	NPT	Ave	31188 2702044	133404 4143887	281152 5201878	627328	1384647	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
4-Chloroaniline	NPT	Ave	10450 1156289	51157 1729119	114219 2062588	251865	580059	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,6-Dichlorophenol	NPT	Ave	7678 816331	40303 1256784	85737 1578131	189150	429511	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Hexachlorobutadiene	NPT	Ave	7166 714196	35267 1076043	69987 1341624	160042	363425	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Caprolactam	NPT	Ave	+++++ 289109	10368 449217	23479 562891	57374	140456	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
4-Chloro-3-methylphenol	NPT	Ave	7834 872668	39532 1349484	83441 1699989	198897	447876	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1 Analy Batch No.: 242236

SDG No.:

Instrument ID: CH71 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/16/2018 09:38 Calibration End Date: 04/16/2018 12:53 Calibration ID: 37653

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
2-Methylnaphthalene	NPT	Ave	20130 1824963	85587 2858254	180021 3567554	407087	920020	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1-Methylnaphthalene	NPT	Ave	18028 1692635	80341 2650529	166662 3338651	385173	858411	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Hexachlorocyclopentadiene	ANT	Ave	6420 857518	31217 1299250	72494 1663209	177009	418643	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1,2,4,5-Tetrachlorobenzene	ANT	Ave	13029 1151500	55991 1771824	116694 2215461	265762	591883	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,4,6-Trichlorophenol	ANT	Ave	6227 743336	32071 1158124	69816 1444026	162502	380626	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,4,5-Trichlorophenol	ANT	Ave	6460 785646	35484 1211972	77557 1547211	179903	398525	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1,1'-Biphenyl	ANT	Ave	22569 2188959	109449 3444280	219451 4374774	510632	1115233	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2-Chloronaphthalene	ANT	Ave	18690 1824744	87987 2799636	187338 3505357	421592	920459	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2-Nitroaniline	ANT	Ave	+++++ 579820	18935 876576	48611 1103542	119530	293324	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Dimethyl phthalate	ANT	Ave	21015 2222541	95843 3433083	220297 4387311	497217	1141463	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1,3-Dinitrobenzene	ANT	Lin2	+++++ 334833	8816 516917	24288 687588	67980	164598	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,6-Dinitrotoluene	ANT	Ave	+++++ 475512	16070 730440	41522 938575	103260	239486	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Acenaphthylene	ANT	Ave	22456 2596284	114175 4041146	247262 5163906	581344	1315146	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
3-Nitroaniline	ANT	Ave	+++++ 487508	17708 753920	42452 963612	103963	246331	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Acenaphthene	ANT	Ave	17564 1725851	80605 2634749	166822 3354753	386761	865643	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,4-Dinitrophenol	ANT	Lin2	+++++ 774793	23582 1251963	60157 1628884	138403	349894	+++++ 80.0	4.00 120	8.00 160	20.0	40.0
4-Nitrophenol	ANT	Ave	+++++ 874486	35151 1329189	83019 1650482	203234	455296	+++++ 80.0	4.00 120	8.00 160	20.0	40.0
2,4-Dinitrotoluene	ANT	Ave	+++++ 655750	22605 1014287	55406 1316993	143499	326381	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Dibenzofuran	ANT	Ave	26135 2526728	120759 3938173	256448 4997600	567874	1301615	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,3,5,6-Tetrachlorophenol	ANT	Ave	5326 702100	27576 1107974	63329 1415401	150229	345376	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,3,4,6-Tetrachlorophenol	ANT	Ave	6231 685733	29200 1088838	64529 1382998	149515	348902	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1 Analy Batch No.: 242236

SDG No.:

Instrument ID: CH71 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/16/2018 09:38 Calibration End Date: 04/16/2018 12:53 Calibration ID: 37653

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
2-Naphthylamine	ANT	Ave	14989 1640320	76053 2424571	160428 2598381	350960	844692	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Diethyl phthalate	ANT	Ave	19759 2136556	96268 3294843	206218 4203795	486331	1082607	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Hexadecane	NPT	Ave	11609 1152456	57123 1656039	129647 2024278	295224	620562	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
4-Chlorophenyl phenyl ether	ANT	Ave	12919 1269074	56172 1974620	121743 2497495	271287	619565	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
4-Nitroaniline	ANT	Ave	+++++ 521872	17825 814104	44564 1006022	115531	259920	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Fluorene	ANT	Ave	20890 2075020	94851 3285479	200853 4128127	466759	1048906	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
4,6-Dinitro-2-methylphenol	PHN	Lin2	+++++ 904745	25163 1446810	65226 1921886	181527	435514	+++++ 80.0	4.00 120	8.00 160	20.0	40.0
N-Nitrosodiphenylamine	PHN	Ave	13904 1608462	70343 2577535	155533 3369834	365379	824664	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
1,2-Diphenylhydrazine(as Azobenzene)	PHN	Ave	17756 2182884	99573 3252977	220119 4126834	505531	1137425	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
4-Bromophenyl phenyl ether	PHN	Ave	7168 752677	33139 1208511	72537 1591929	167009	373454	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Hexachlorobenzene	PHN	Ave	7692 786396	35037 1272606	73732 1629796	178899	391225	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Atrazine	PHN	Lin1	+++++ 842399	29686 1418685	67159 +++++	146559	379047	+++++ 40.0	2.00 60.0	4.00 +++++	10.0	20.0
Pentachlorophenol	PHN	Ave	12211 1156761	43688 1886987	109852 2356492	223157	561312	0.760 80.0	4.00 120	8.00 160	20.0	40.0
n-Octadecane	DCBd 4	Ave	10852 1284918	62026 1886655	131815 2300316	310067	695307	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Phenanthrene	PHN	Ave	33399 3235277	143554 5086310	305354 6593423	719565	1601923	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Anthracene	PHN	Ave	28171 3330266	143092 5280233	304148 6926086	729436	1695092	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Carbazole	PHN	Ave	24724 2942347	124649 4590659	273521 5935263	641522	1458768	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Di-n-butyl phthalate	PHN	Ave	24881 3706691	142581 5725999	316194 7333366	803807	1817200	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Fluoranthene	PHN	Ave	33794 4177745	165912 6556508	370541 8333883	881931	2070134	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzidine	CRY	Lin1	+++++ 1984670	54762 2724947	131431 +++++	374751	1031141	+++++ 40.0	2.00 60.0	4.00 +++++	10.0	20.0
Pyrene	CRY	Ave	34354 4202540	175708 6594236	384512 8477609	915757	2073583	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1 Analy Batch No.: 242236

SDG No.:

Instrument ID: CH71 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/16/2018 09:38 Calibration End Date: 04/16/2018 12:53 Calibration ID: 37653

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Butyl benzyl phthalate	CRY	Ave	+++++ 1698549	56121 2624152	128490 3445609	340875	837190	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
3,3'-Dichlorobenzidine	CRY	Lin2	+++++ 1586788	49848 2598434	115478 3347528	307487	736910	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzo[a]anthracene	CRY	Ave	35009 4229950	166857 6835094	382117 8693014	898741	2068719	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Bis(2-ethylhexyl) phthalate	CRY	Ave	+++++ 2316543	75542 3649088	186818 4621280	480940	1149873	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Chrysene	CRY	Ave	36398 3799335	165353 5956112	366302 8025390	848985	1855091	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Di-n-octyl phthalate	PRY	Lin2	+++++ 4015095	109772 6347320	261201 8187017	766530	1907318	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
7,12-Dimethylbenz(a)anthracene	PRY	Ave	+++++ 2041649	71972 3269906	158670 4362872	398438	959186	+++++ 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzo[b]fluoranthene	PRY	Ave	34551 4334946	170972 6995219	385854 9403866	932757	2152928	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzo[k]fluoranthene	PRY	Ave	31945 4022088	155809 6274738	358006 8042811	836882	1920335	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzo[e]pyrene	PRY	Ave	30835 3845734	149516 5974573	327090 7714894	797984	1829129	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzo[a]pyrene	PRY	Ave	27647 3727278	138414 6094905	323998 7761755	790161	1796946	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Indeno[1,2,3-cd]pyrene	PRY	Ave	32033 4240007	164647 6962403	364960 9057244	882618	2035989	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Dibenz(a,h)anthracene	PRY	Ave	25818 3562243	139282 5971010	309987 7867751	744544	1713711	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Benzo[g,h,i]perylene	PRY	Ave	28125 3425537	136877 5642615	302367 7299922	736113	1677300	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2-Fluorophenol (Surr)	DCBd 4	Ave	8520 875592	39814 1318881	85927 1668584	198872	446489	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Phenol-d5 (Surr)	DCBd 4	Ave	9876 1101225	53780 1647460	113075 2087514	254637	571670	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Nitrobenzene-d5 (Surr)	NPT	Ave	7493 1003031	44362 1493300	93642 1897314	218902	508748	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2-Fluorobiphenyl	ANT	Ave	23856 2305197	109709 3594599	236666 4546769	535839	1175719	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
2,4,6-Tribromophenol (Surr)	PHN	Ave	2705 344670	13084 559749	29542 736411	74143	167882	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0
Terphenyl-d14 (Surr)	CRY	Ave	25394 3024605	120190 4883224	267683 6209848	650670	1491512	0.380 40.0	2.00 60.0	4.00 80.0	10.0	20.0

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1 Analy Batch No.: 242236

SDG No.:

Instrument ID: CH71 GC Column: Rxi-5SilMS ID: 0.32(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/16/2018 09:38 Calibration End Date: 04/16/2018 12:53 Calibration ID: 37653

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416003.D
Lims ID: IC R0.38
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 16-Apr-2018 09:38:30 ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0021340-003
Misc. Info.: IC R0.38
Operator ID: 001562 Instrument ID: CH71
Sublist: chrom-BNA_CH71*sub9

Method: \\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\BNA_CH71.m
Limit Group: BNA 8270D ICAL
Last Update: 17-Apr-2018 09:49:49 Calib Date: 16-Apr-2018 17:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416021.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: fergusond Date: 16-Apr-2018 10:23:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.023	6.023	0.000	97	141976	8.00	8.00	
* 2 Naphthalene-d8	136	7.251	7.251	0.000	100	547724	8.00	8.00	
* 3 Acenaphthene-d10	164	8.886	8.886	0.000	97	299830	8.00	8.00	
* 4 Phenanthrene-d10	188	10.259	10.259	0.000	96	626751	8.00	8.00	
* 5 Chrysene-d12	240	13.641	13.641	0.000	98	664176	8.00	8.00	
* 6 Perylene-d12	264	16.499	16.499	0.000	99	581166	8.00	8.00	
$ 7 2-Fluorophenol	112	4.607	4.607	0.000	86	8520	0.3800	0.3813	
$ 8 Phenol-d5	99	5.665	5.665	0.000	70	9876	0.3800	0.3488	
$ 9 Nitrobenzene-d5	82	6.557	6.557	0.000	91	7493	0.3800	0.2985	
$ 10 2-Fluorobiphenyl	172	8.256	8.256	0.000	99	23856	0.3800	0.3843	
$ 11 2,4,6-Tribromophenol	330	9.613	9.613	0.000	86	2705	0.3800	0.3222	
$ 12 Terphenyl-d14	244	11.974	11.974	0.000	98	25394	0.3800	0.3571	
13 1,4-Dioxane	88	1.370	1.370	0.000	0	3820	0.3800	0.4788	M
14 N-Nitrosodimethylamine	74	1.920	1.920	0.000	65	3595	0.3800	0.3223	M
15 Pyridine	79	1.995	1.995	0.000	1	15858	0.7600	0.7696	M
21 Methyl methanesulfonate	80	4.367	4.367	0.000	88	5641	0.3800	0.4488	
25 Benzaldehyde	77	5.563	5.563	0.000	91	6584	0.3800	0.3915	
26 Phenol	94	5.681	5.681	0.000	89	12533	0.3800	0.3896	
27 Aniline	93	5.681	5.681	0.000	69	14216	0.3800	0.3979	
29 Bis(2-chloroethyl)ether	93	5.761	5.761	0.000	99	10122	0.3800	0.4261	
30 2-Chlorophenol	128	5.809	5.809	0.000	94	9308	0.3800	0.3873	
31 n-Decane	43	5.889	5.889	0.000	83	7833	0.3800	0.4007	
32 1,3-Dichlorobenzene	146	5.964	5.964	0.000	96	12872	0.3800	0.4480	
33 1,4-Dichlorobenzene	146	6.039	6.039	0.000	90	11945	0.3800	0.4185	
34 Benzyl alcohol	108	6.162	6.162	0.000	91	5451	0.3800	0.3511	
35 1,2-Dichlorobenzene	146	6.188	6.188	0.000	95	12101	0.3800	0.4435	
37 Indene	116	6.279	6.279	0.000	88	16142	0.3800	0.3837	
36 2-Methylphenol	108	6.279	6.279	0.000	71	8533	0.3800	0.3851	
38 2,2'-oxybis[1-chloropropan	45	6.300	6.300	0.000	88	11238	0.3800	0.4280	
39 N-Nitrosopyrrolidine	100	6.386	6.386	0.000	87	3256	0.3800	0.3238	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
40 Acetophenone	105	6.413	6.413	0.000	94	12707	0.3800	0.3695	
41 N-Nitrosodi-n-propylamine	70	6.423	6.423	0.000	82	5680	0.3800	0.3723	
42 4-Methylphenol	108	6.429	6.429	0.000	90	8839	0.3800	0.3813	
45 Hexachloroethane	117	6.525	6.525	0.000	84	3876	0.3800	0.3511	
46 Nitrobenzene	77	6.578	6.578	0.000	91	8402	0.3800	0.3243	
48 Isophorone	82	6.808	6.808	0.000	99	16338	0.3800	0.3510	
49 2-Nitrophenol	139	6.888	6.888	0.000	91	3435	0.3800	0.2897	
50 2,4-Dimethylphenol	107	6.931	6.931	0.000	96	9414	0.3800	0.3537	
52 Benzoic acid	122	6.952	6.952	0.000	81	5250	0.3800	0.4391	
53 Bis(2-chloroethoxy)methane	93	7.016	7.016	0.000	97	12760	0.3800	0.4312	
54 2,4-Dichlorophenol	162	7.112	7.112	0.000	92	7892	0.3800	0.3537	
56 1,2,4-Trichlorobenzene	180	7.198	7.198	0.000	89	11444	0.3800	0.4224	
58 Naphthalene	128	7.273	7.273	0.000	97	31188	0.3800	0.4203	
59 4-Chloroaniline	127	7.315	7.315	0.000	93	10450	0.3800	0.3543	
60 2,6-Dichlorophenol	162	7.331	7.331	0.000	92	7678	0.3800	0.3496	
62 Hexachlorobutadiene	225	7.396	7.396	0.000	93	7166	0.3800	0.3789	
64 Caprolactam	113	7.599	7.599	0.000	81	1825	0.3800	0.2580	
67 4-Chloro-3-methylphenol	107	7.759	7.759	0.000	94	7834	0.3800	0.3443	
69 2-Methylnaphthalene	142	7.919	7.919	0.000	91	20130	0.3800	0.4103	
71 1-Methylnaphthalene	142	8.010	8.010	0.000	96	18028	0.3800	0.3959	
72 Hexachlorocyclopentadiene	237	8.074	8.074	0.000	90	6420	0.3800	0.3127	
73 1,2,4,5-Tetrachlorobenzene	216	8.079	8.079	0.000	96	13029	0.3800	0.4168	
74 2,4,6-Trichlorophenol	196	8.176	8.176	0.000	91	6227	0.3800	0.3293	
75 2,4,5-Trichlorophenol	196	8.208	8.208	0.000	89	6460	0.3800	0.3185	
76 1,1'-Biphenyl	154	8.346	8.346	0.000	95	22569	0.3800	0.3807	
77 2-Chloronaphthalene	162	8.373	8.373	0.000	96	18690	0.3800	0.3831	
79 2-Nitroaniline	65	8.453	8.453	0.000	80	3068	0.3800	0.2180	
82 Dimethyl phthalate	163	8.614	8.614	0.000	98	21015	0.3800	0.3626	
83 1,3-Dinitrobenzene	168	8.640	8.640	0.000	82	1309	0.3800	1.13	
84 2,6-Dinitrotoluene	165	8.672	8.672	0.000	83	2375	0.3800	0.2009	
85 Acenaphthylene	152	8.758	8.758	0.000	97	22456	0.3800	0.3359	
86 3-Nitroaniline	138	8.827	8.827	0.000	44	2688	0.3800	0.2203	a
87 2,4-Dinitrophenol	184	8.923	8.923	0.000	75	5026	0.7600	2.12	
88 Acenaphthene	153	8.918	8.918	0.000	90	17564	0.3800	0.3867	
89 4-Nitrophenol	109	8.966	8.966	0.000	88	4640	0.7600	0.4109	
91 2,4-Dinitrotoluene	165	9.041	9.041	0.000	88	3208	0.3800	0.1966	
93 Dibenzofuran	168	9.073	9.073	0.000	94	26135	0.3800	0.3855	
95 2,3,5,6-Tetrachlorophenol	232	9.148	9.148	0.000	88	5326	0.3800	0.3064	
96 2,3,4,6-Tetrachlorophenol	232	9.185	9.185	0.000	67	6231	0.3800	0.3522	
97 2-Naphthylamine	143	9.207	9.207	0.000	94	14989	0.3800	0.3623	
98 Diethyl phthalate	149	9.255	9.255	0.000	97	19759	0.3800	0.3550	
99 Hexadecane	57	9.271	9.271	0.000	96	11609	0.3800	0.3691	
100 4-Chlorophenyl phenyl ethe	204	9.378	9.378	0.000	88	12919	0.3800	0.3917	
101 4-Nitroaniline	138	9.383	9.383	0.000	59	3227	0.3800	0.2492	
103 Fluorene	166	9.388	9.388	0.000	94	20890	0.3800	0.3806	
104 4,6-Dinitro-2-methylphenol	198	9.420	9.420	0.000	86	3434	0.7600	2.12	
105 N-Nitrosodiphenylamine	169	9.484	9.484	0.000	95	13904	0.3800	0.3376	
90 1,2-Diphenylhydrazine	77	9.527	9.527	0.000	99	17756	0.3800	0.3221	
57 Azobenzene	77	9.527	9.527	0.000	97	17756	0.3800	0.3210	
110 4-Bromophenyl phenyl ether	248	9.832	9.832	0.000	65	7168	0.3800	0.3696	
112 Hexachlorobenzene	284	9.906	9.906	0.000	89	7692	0.3800	0.3785	
113 Atrazine	200	9.954	9.954	0.000	89	5389	0.3800	1.20	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
116 Pentachlorophenol	266	10.083	10.083	0.000	90	12211	0.7600	0.8423	
115 n-Octadecane	57	10.109	10.109	0.000	94	10852	0.3800	0.3306	
121 Phenanthrene	178	10.280	10.280	0.000	95	33399	0.3800	0.4003	
122 Anthracene	178	10.328	10.328	0.000	96	28171	0.3800	0.3368	
124 Carbazole	167	10.467	10.467	0.000	96	24724	0.3800	0.3381	
126 Di-n-butyl phthalate	149	10.772	10.772	0.000	99	24881	0.3800	0.2841	
131 Fluoranthene	202	11.520	11.520	0.000	96	33794	0.3800	0.3328	
132 Benzidine	184	11.648	11.648	0.000	0	9208	0.3800	0.9652	
133 Pyrene	202	11.803	11.803	0.000	98	34354	0.3800	0.3468	
138 Butyl benzyl phthalate	149	12.658	12.658	0.000	93	9031	0.3800	0.2385	
144 3,3'-Dichlorobenzidine	252	13.560	13.560	0.000	1	8380	0.3800	0.8980	a
146 Benzo[a]anthracene	228	13.625	13.625	0.000	96	35009	0.3800	0.3529	
145 Bis(2-ethylhexyl) phthalat	149	13.641	13.641	0.000	41	11783	0.3800	0.2252	
147 Chrysene	228	13.689	13.689	0.000	97	36398	0.3800	0.3912	
150 Di-n-octyl phthalate	149	14.923	14.923	0.000	28	16519	0.3800	1.13	
151 7,12-Dimethylbenz(a)anthra	256	15.697	15.697	0.000	73	13196	0.3800	0.2793	
152 Benzo[b]fluoranthene	252	15.708	15.708	0.000	98	34551	0.3800	0.3318	
153 Benzo[k]fluoranthene	252	15.767	15.767	0.000	98	31945	0.3800	0.3398	
219 Benzo[e]pyrene	252	16.274	16.274	0.000	96	30835	0.3800	0.3447	
154 Benzo[a]pyrene	252	16.381	16.381	0.000	35	27647	0.3800	0.3170	a
157 Indeno[1,2,3-cd]pyrene	276	18.641	18.641	0.000	96	32033	0.3800	0.3206	M
158 Dibenz(a,h)anthracene	278	18.678	18.678	0.000	48	25818	0.3800	0.3057	M
159 Benzo[g,h,i]perylene	276	19.191	19.191	0.000	57	28125	0.3800	0.3410	
S 199 Total Cresols	108				0		0.7600	0.7664	
S 197 Methyl Phenols,Total	108				0		0.7600	0.7664	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

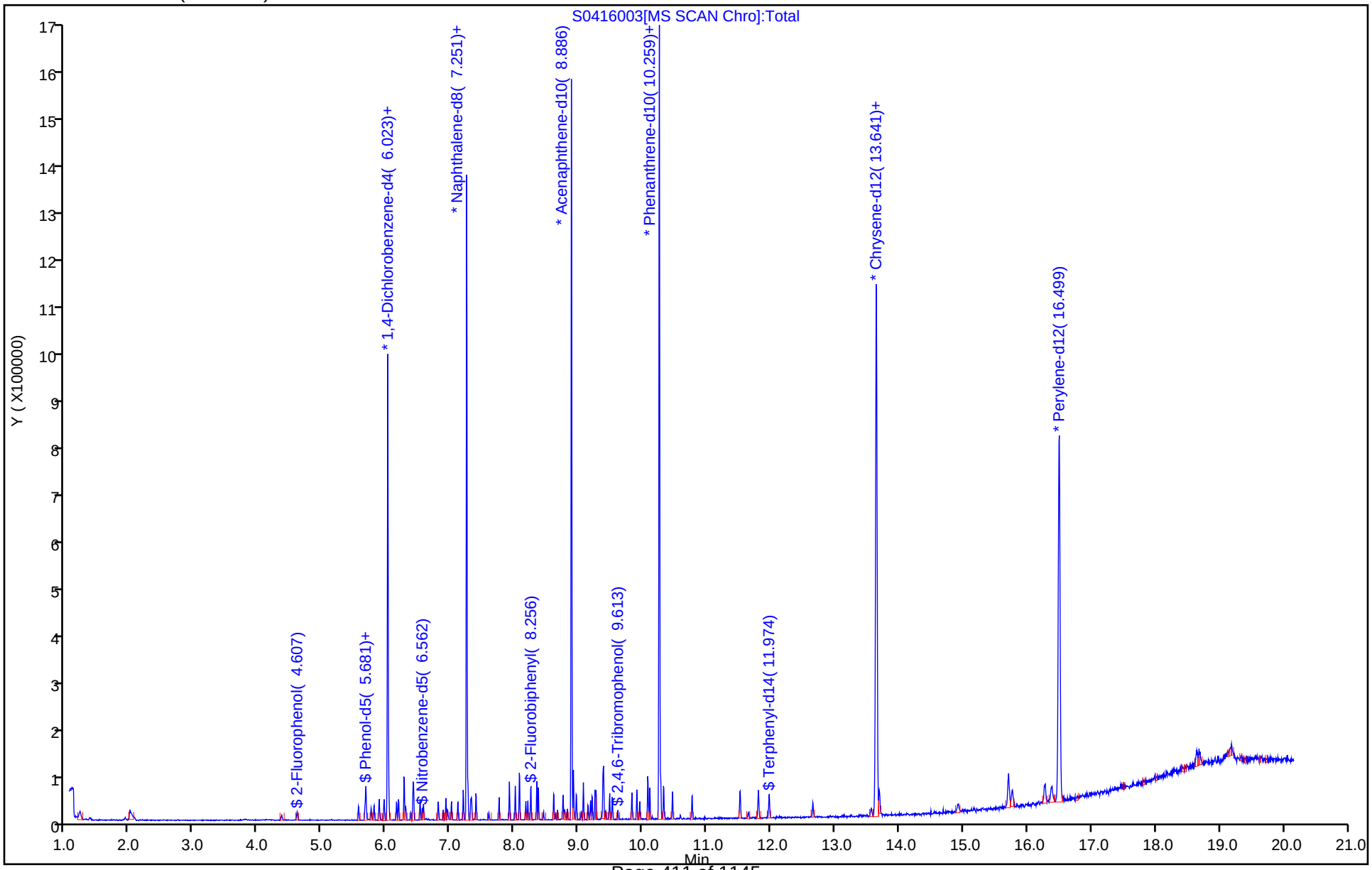
SVTAPSTD0.38i_00006 Amount Added: 1.00 Units: mL

Report Date: 17-Apr-2018 09:49:50 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416003.D				
Injection Date:	16-Apr-2018 09:38:30	Instrument ID:	CH71	Operator ID:	001562
Lims ID:	IC R0.38			Worklist Smp#:	3
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



Manual Integration/User Assign Peak Report

TestAmerica Pittsburgh

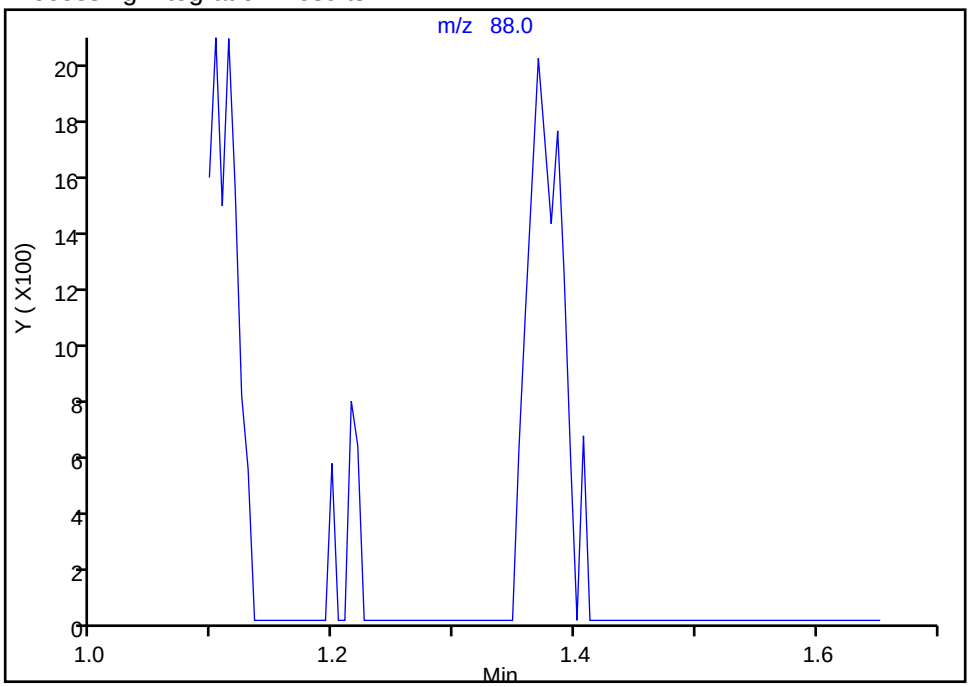
Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416003.D				
Injection Date:	16-Apr-2018 09:38:30	Instrument ID:	CH71		
Lims ID:	IC R0.38				
Client ID:					
Operator ID:	001562	ALS Bottle#:	2	Worklist Smp#:	3
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

13 1,4-Dioxane, CAS: 123-91-1

Signal: 1

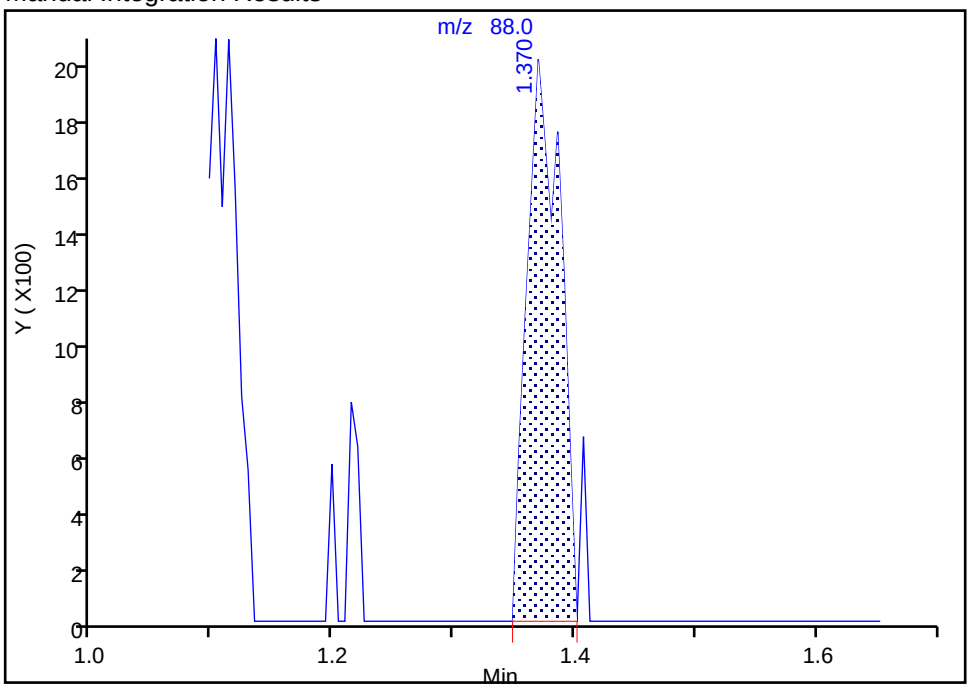
Not Detected
Expected RT: 1.37

Processing Integration Results



Manual Integration Results

RT: 1.37
Area: 3820
Amount: 0.478846
Amount Units: ng



Reviewer: fergusond, 16-Apr-2018 10:19:41
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

TestAmerica Pittsburgh

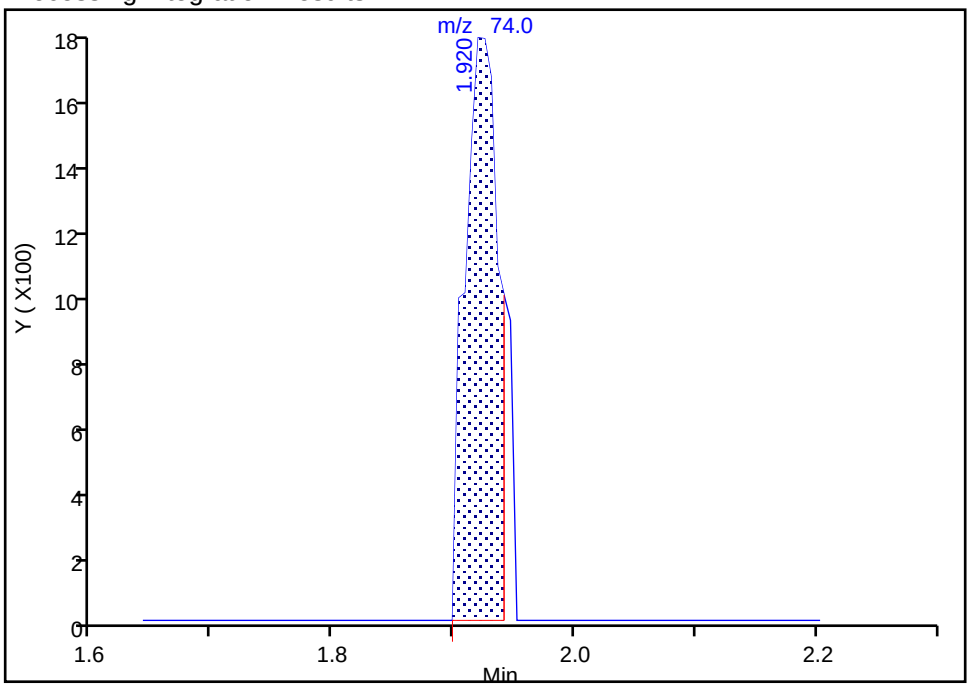
Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416003.D				
Injection Date:	16-Apr-2018 09:38:30	Instrument ID:	CH71		
Lims ID:	IC R0.38				
Client ID:					
Operator ID:	001562	ALS Bottle#:	2	Worklist Smp#:	3
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

14 N-Nitrosodimethylamine, CAS: 62-75-9

Signal: 1

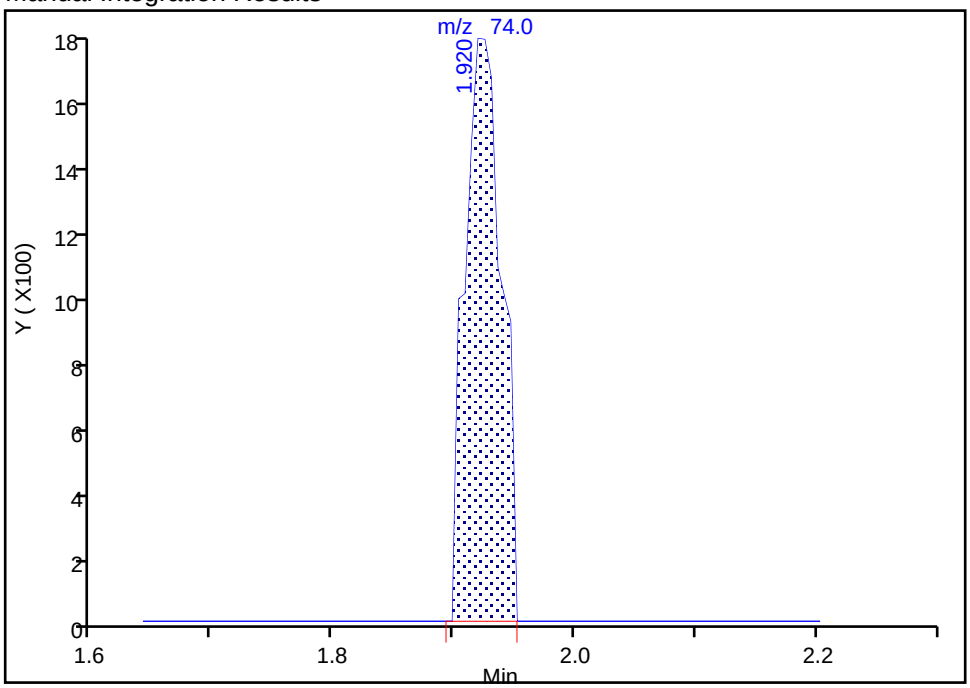
Processing Integration Results

RT: 1.92
Area: 3312
Amount: 0.312427
Amount Units: ng



Manual Integration Results

RT: 1.92
Area: 3595
Amount: 0.322251
Amount Units: ng



Reviewer: fergusond, 16-Apr-2018 10:19:53

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pittsburgh

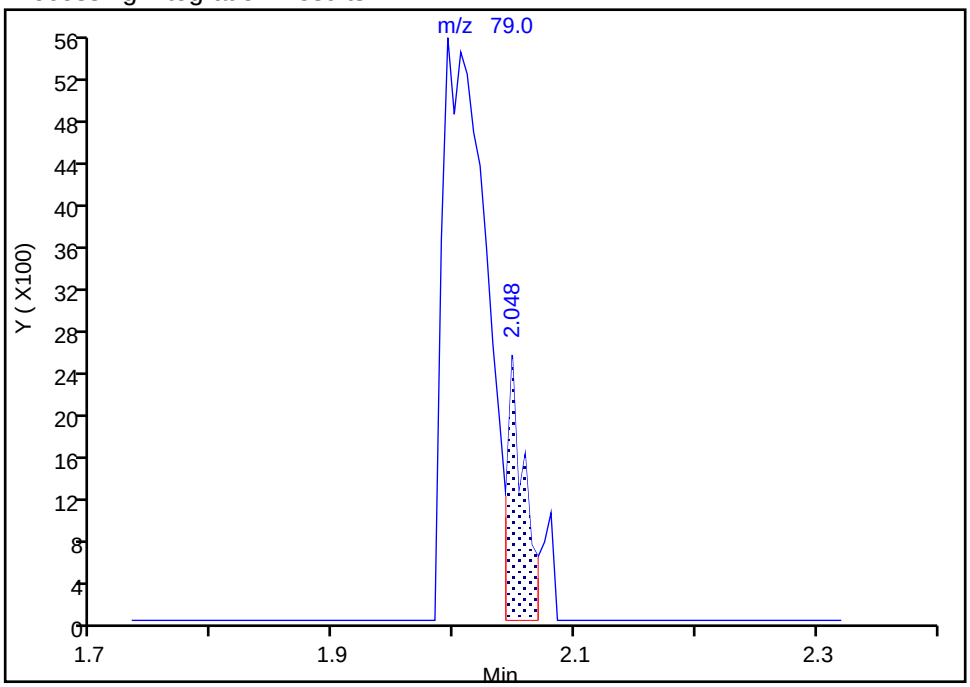
Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416003.D				
Injection Date:	16-Apr-2018 09:38:30	Instrument ID:	CH71		
Lims ID:	IC R0.38				
Client ID:					
Operator ID:	001562	ALS Bottle#:	2	Worklist Smp#:	3
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

15 Pyridine, CAS: 110-86-1

Signal: 1

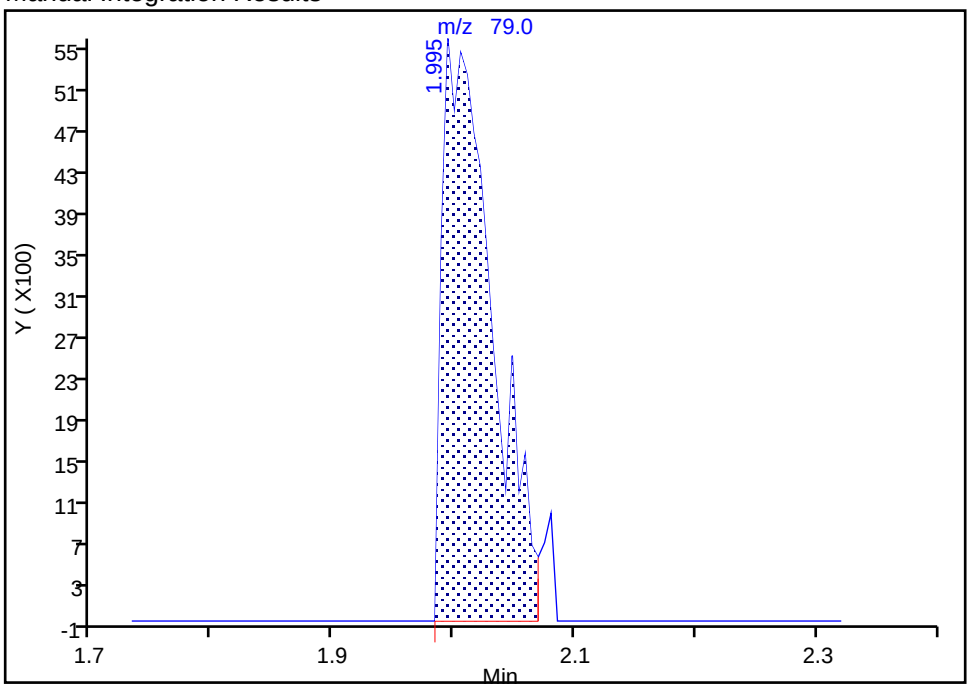
Processing Integration Results

RT: 2.05
Area: 2503
Amount: 0.744934
Amount Units: ng



Manual Integration Results

RT: 1.99
Area: 15858
Amount: 0.769596
Amount Units: ng



Reviewer: fergusond, 16-Apr-2018 10:20:27

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pittsburgh

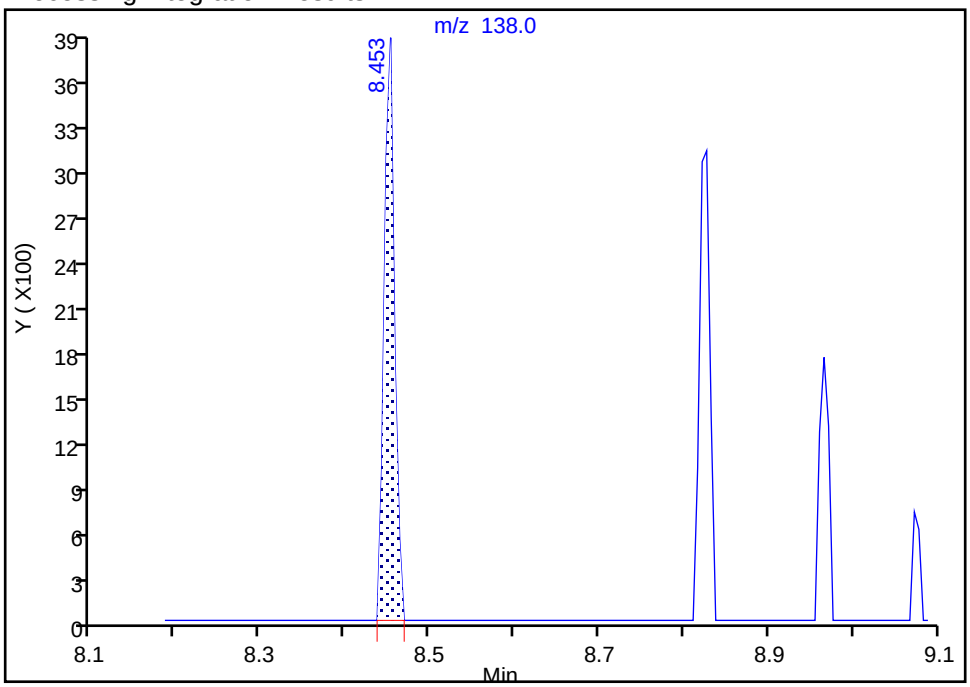
Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416003.D				
Injection Date:	16-Apr-2018 09:38:30	Instrument ID:	CH71		
Lims ID:	IC R0.38				
Client ID:					
Operator ID:	001562	ALS Bottle#:	2	Worklist Smp#:	3
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

86 3-Nitroaniline, CAS: 99-09-2

Signal: 1

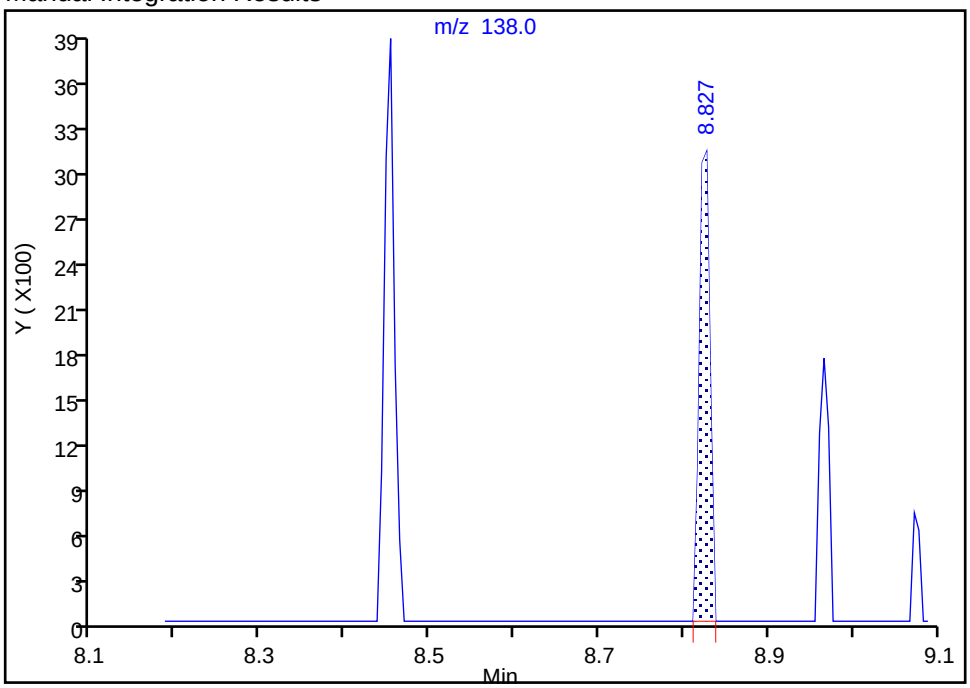
Processing Integration Results

RT: 8.45
Area: 3210
Amount: 0.391552
Amount Units: ng



Manual Integration Results

RT: 8.83
Area: 2688
Amount: 0.220313
Amount Units: ng



Reviewer: fergusond, 16-Apr-2018 10:21:01
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pittsburgh

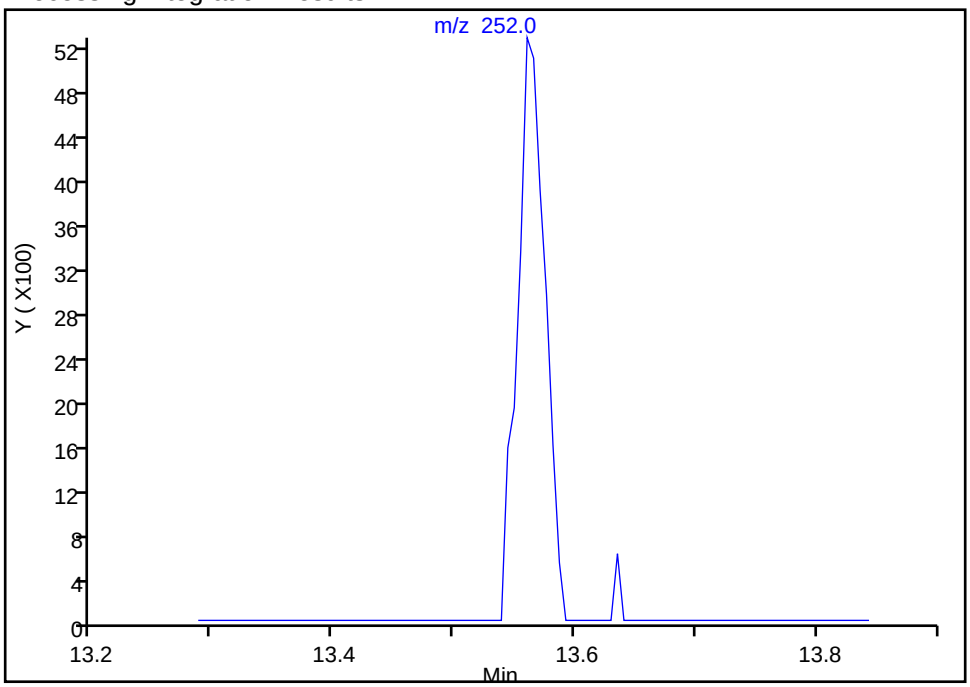
Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416003.D				
Injection Date:	16-Apr-2018 09:38:30	Instrument ID:	CH71		
Lims ID:	IC R0.38				
Client ID:					
Operator ID:	001562	ALS Bottle#:	2	Worklist Smp#:	3
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

144 3,3'-Dichlorobenzidine, CAS: 91-94-1

Signal: 1

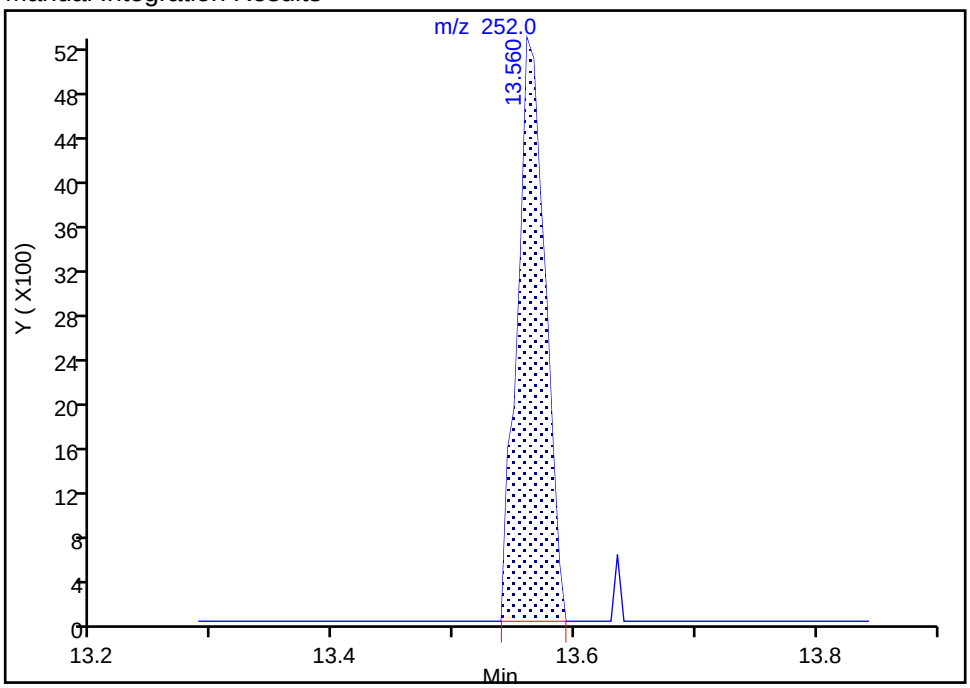
Processing Integration Results

Not Detected
Expected RT: 13.56



Manual Integration Results

RT: 13.56
Area: 8380
Amount: 0.898006
Amount Units: ng



Reviewer: fergusond, 16-Apr-2018 10:22:08
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pittsburgh

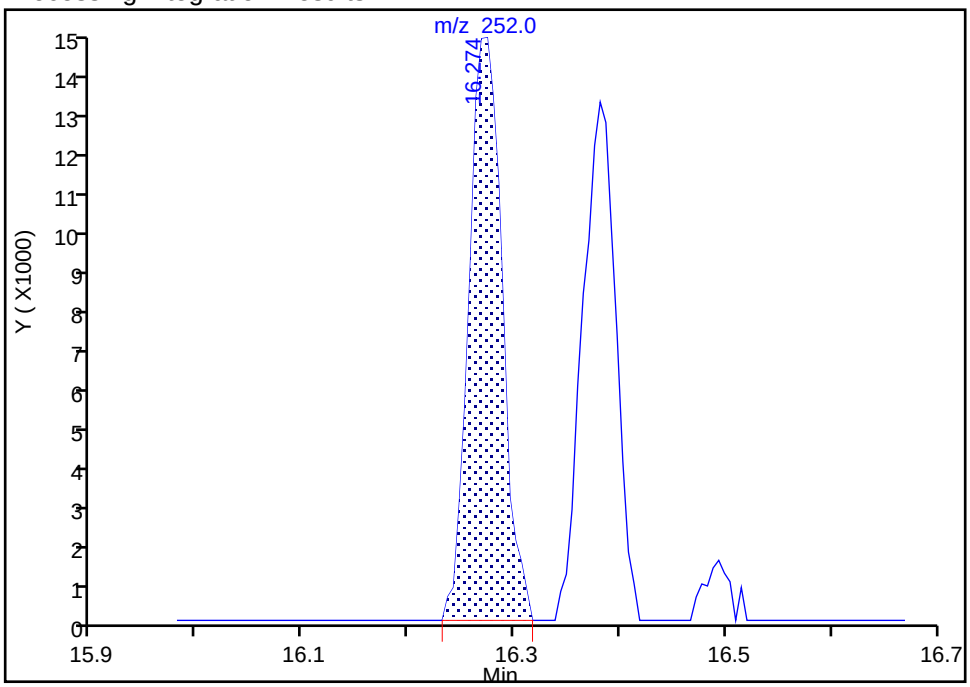
Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416003.D				
Injection Date:	16-Apr-2018 09:38:30	Instrument ID:	CH71		
Lims ID:	IC R0.38				
Client ID:					
Operator ID:	001562	ALS Bottle#:	2	Worklist Smp#:	3
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

154 Benzo[a]pyrene, CAS: 50-32-8

Signal: 1

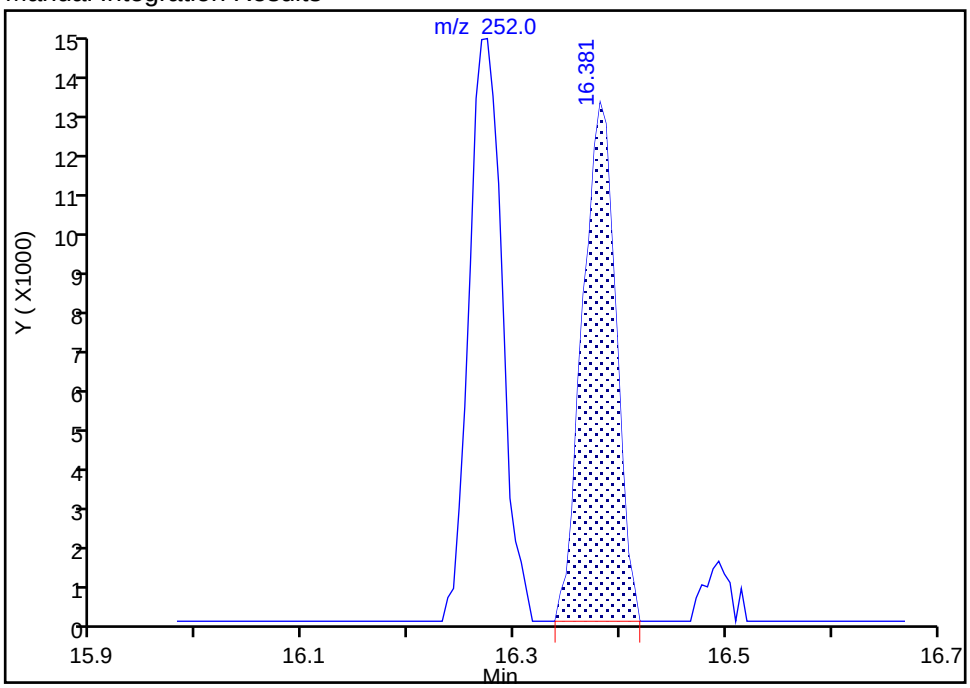
Processing Integration Results

RT: 16.27
Area: 30835
Amount: 0.350396
Amount Units: ng



Manual Integration Results

RT: 16.38
Area: 27647
Amount: 0.317011
Amount Units: ng



Reviewer: fergusond, 16-Apr-2018 10:22:56

Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pittsburgh

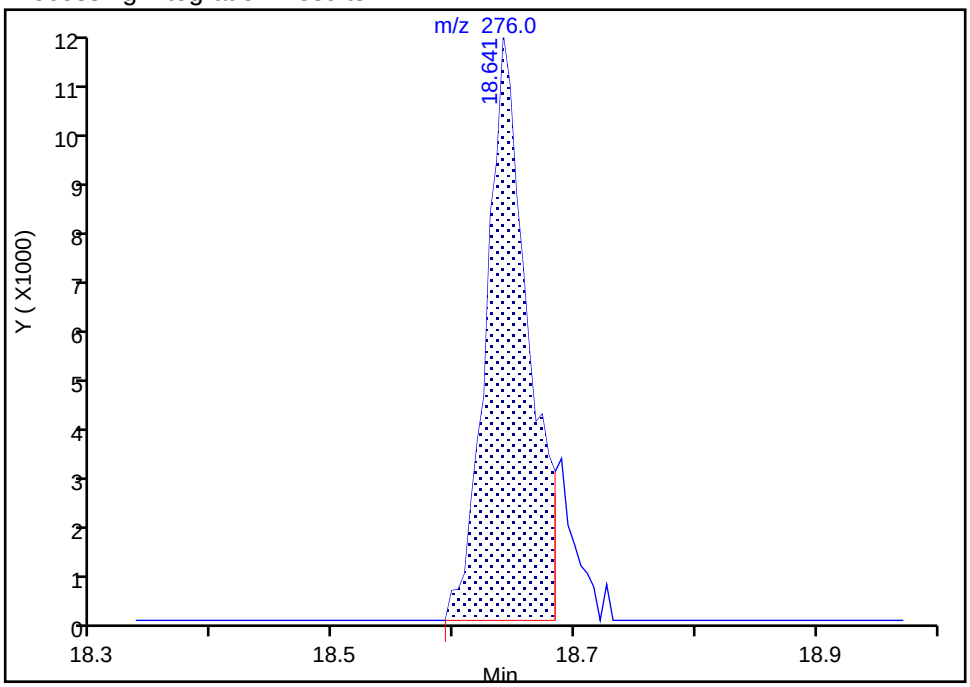
Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416003.D				
Injection Date:	16-Apr-2018 09:38:30	Instrument ID:	CH71		
Lims ID:	IC R0.38				
Client ID:					
Operator ID:	001562	ALS Bottle#:	2	Worklist Smp#:	3
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

157 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

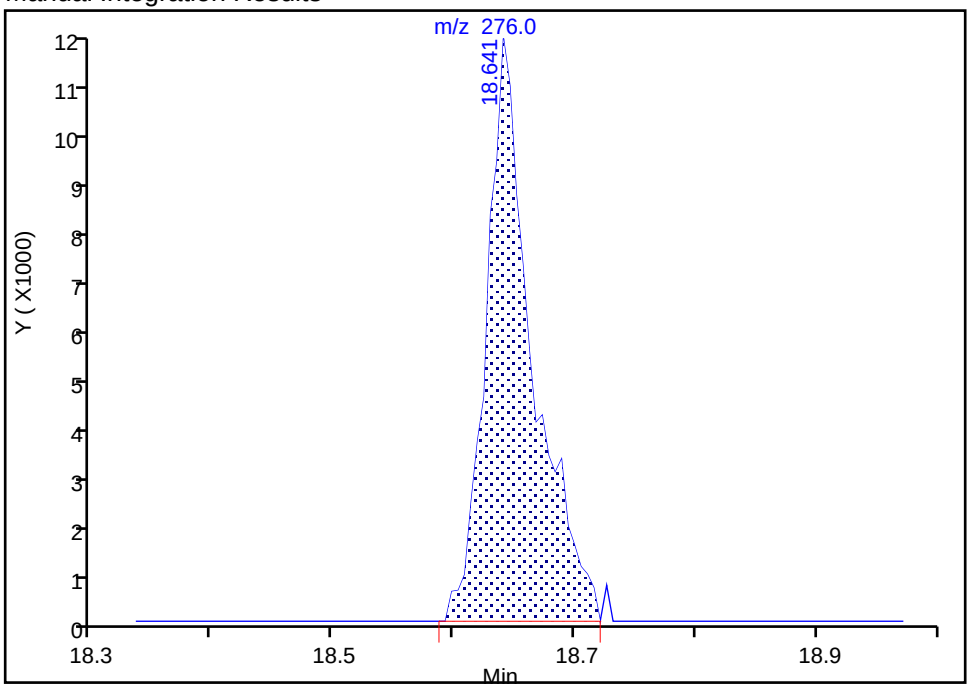
Processing Integration Results

RT: 18.64
Area: 28942
Amount: 0.306525
Amount Units: ng



Manual Integration Results

RT: 18.64
Area: 32033
Amount: 0.320648
Amount Units: ng



Reviewer: fergusond, 16-Apr-2018 10:23:18

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pittsburgh

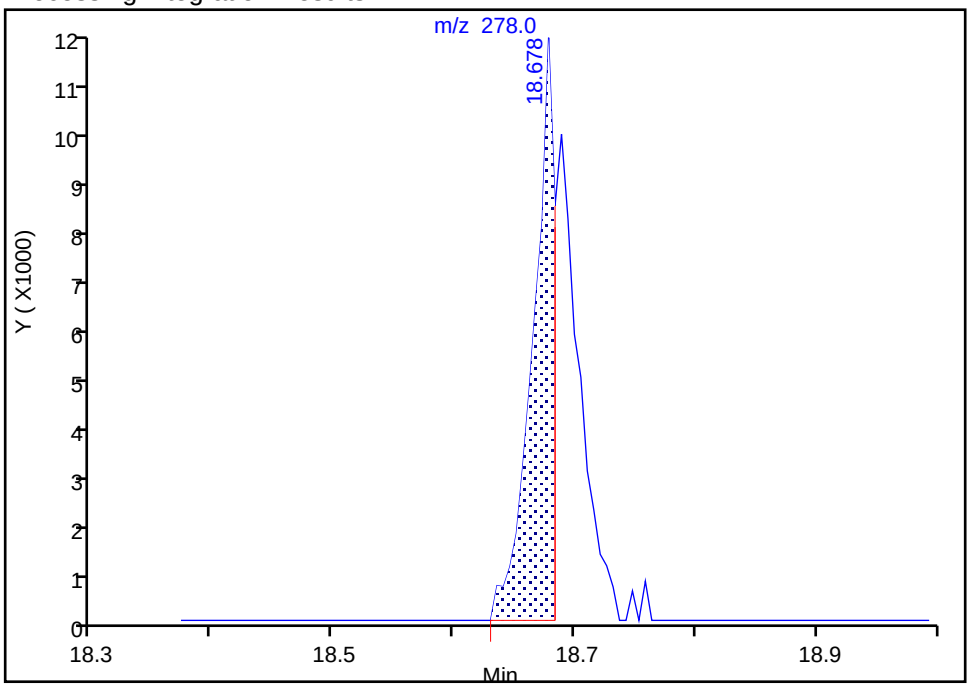
Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416003.D				
Injection Date:	16-Apr-2018 09:38:30	Instrument ID:	CH71		
Lims ID:	IC R0.38				
Client ID:					
Operator ID:	001562	ALS Bottle#:	2	Worklist Smp#:	3
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

158 Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

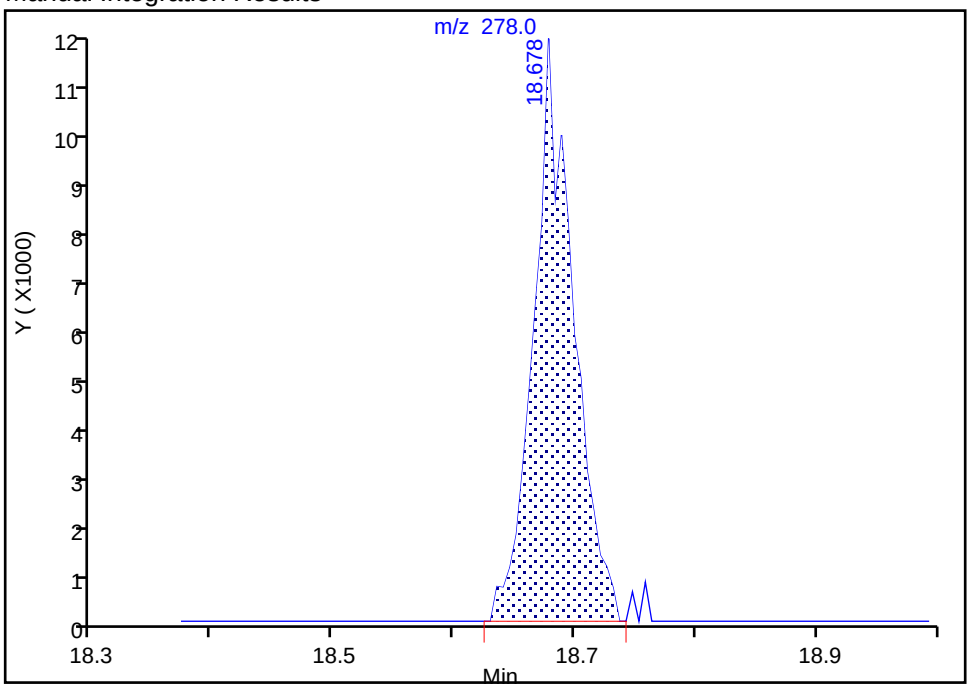
Processing Integration Results

RT: 18.68
Area: 14400
Amount: 0.385421
Amount Units: ng



Manual Integration Results

RT: 18.68
Area: 25818
Amount: 0.305708
Amount Units: ng



Reviewer: fergusond, 16-Apr-2018 10:23:33

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416004.D
Lims ID: IC R2.0
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 16-Apr-2018 10:05:30 ALS Bottle#: 3 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0021340-004
Misc. Info.: IC R2.0
Operator ID: 001562 Instrument ID: CH71
Sublist: chrom-BNA_CH71*sub9

Method: \\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\BNA_CH71.m
Limit Group: BNA 8270D ICAL
Last Update: 17-Apr-2018 09:49:56 Calib Date: 16-Apr-2018 17:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416021.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: fergusond Date: 16-Apr-2018 10:39:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.033	6.023	0.010	97	137673	8.00	8.00	
* 2 Naphthalene-d8	136	7.261	7.251	0.010	100	509107	8.00	8.00	
* 3 Acenaphthene-d10	164	8.896	8.886	0.010	95	271125	8.00	8.00	
* 4 Phenanthrene-d10	188	10.264	10.259	0.005	96	570213	8.00	8.00	
* 5 Chrysene-d12	240	13.661	13.641	0.020	98	605518	8.00	8.00	
* 6 Perylene-d12	264	16.514	16.499	0.015	100	545950	8.00	8.00	
$ 7 2-Fluorophenol	112	4.622	4.607	0.015	91	39814	2.00	1.84	
$ 8 Phenol-d5	99	5.675	5.665	0.010	96	53780	2.00	1.96	
$ 9 Nitrobenzene-d5	82	6.567	6.557	0.010	91	44362	2.00	1.90	
$ 10 2-Fluorobiphenyl	172	8.260	8.256	0.004	99	109709	2.00	1.95	
$ 11 2,4,6-Tribromophenol	330	9.617	9.613	0.004	89	13084	2.00	1.71	
$ 12 Terphenyl-d14	244	11.978	11.974	0.004	99	120190	2.00	1.85	
13 1,4-Dioxane	88	1.385	1.370	0.015	95	15019	2.00	1.94	
14 N-Nitrosodimethylamine	74	1.940	1.920	0.020	92	20597	2.00	1.90	
15 Pyridine	79	2.010	1.995	0.015	93	79275	4.00	3.97	M
21 Methyl methanesulfonate	80	4.376	4.367	0.009	85	24890	2.00	2.04	
25 Benzaldehyde	77	5.573	5.563	0.010	93	32041	2.00	1.96	
26 Phenol	94	5.691	5.681	0.010	99	64378	2.00	2.06	
27 Aniline	93	5.691	5.681	0.010	97	71561	2.00	2.07	
29 Bis(2-chloroethyl)ether	93	5.771	5.761	0.010	98	44503	2.00	1.93	
30 2-Chlorophenol	128	5.814	5.809	0.005	96	43917	2.00	1.88	
31 n-Decane	43	5.894	5.889	0.005	86	39239	2.00	2.07	
32 1,3-Dichlorobenzene	146	5.974	5.964	0.010	95	56199	2.00	2.02	
33 1,4-Dichlorobenzene	146	6.049	6.039	0.010	93	56119	2.00	2.03	
34 Benzyl alcohol	108	6.166	6.162	0.004	91	27850	2.00	1.85	
35 1,2-Dichlorobenzene	146	6.198	6.188	0.010	95	53389	2.00	2.02	
36 2-Methylphenol	108	6.284	6.279	0.005	93	41635	2.00	1.94	
37 Indene	116	6.289	6.279	0.010	91	81088	2.00	1.99	
38 2,2'-oxybis[1-chloropropan	45	6.310	6.300	0.010	91	54605	2.00	2.14	
39 N-Nitrosopyrrolidine	100	6.390	6.386	0.004	91	17004	2.00	1.74	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
40 Acetophenone	105	6.423	6.413	0.009	96	68655	2.00	2.06	
41 N-Nitrosodi-n-propylamine	70	6.428	6.423	0.005	88	29515	2.00	1.99	
42 4-Methylphenol	108	6.433	6.429	0.004	96	41522	2.00	1.85	
45 Hexachloroethane	117	6.535	6.525	0.010	87	20353	2.00	1.90	
46 Nitrobenzene	77	6.588	6.578	0.010	89	45654	2.00	1.90	
48 Isophorone	82	6.818	6.808	0.010	99	78322	2.00	1.81	
49 2-Nitrophenol	139	6.898	6.888	0.010	96	18215	2.00	1.65	
50 2,4-Dimethylphenol	107	6.935	6.931	0.004	98	49154	2.00	1.99	
52 Benzoic acid	122	6.967	6.952	0.015	87	19816	2.00	1.78	M
53 Bis(2-chloroethoxy)methane	93	7.021	7.016	0.005	99	52293	2.00	1.90	
54 2,4-Dichlorophenol	162	7.122	7.112	0.010	93	39666	2.00	1.91	
56 1,2,4-Trichlorobenzene	180	7.208	7.198	0.010	94	51847	2.00	2.06	
58 Naphthalene	128	7.283	7.273	0.010	98	133404	2.00	1.93	
59 4-Chloroaniline	127	7.325	7.315	0.010	95	51157	2.00	1.87	
60 2,6-Dichlorophenol	162	7.336	7.331	0.005	95	40303	2.00	1.97	
62 Hexachlorobutadiene	225	7.405	7.396	0.009	95	35267	2.00	2.01	
64 Caprolactam	113	7.603	7.599	0.004	82	10368	2.00	1.58	
67 4-Chloro-3-methylphenol	107	7.763	7.759	0.004	94	39532	2.00	1.87	
69 2-Methylnaphthalene	142	7.924	7.919	0.005	91	85587	2.00	1.88	
71 1-Methylnaphthalene	142	8.020	8.010	0.010	89	80341	2.00	1.90	
72 Hexachlorocyclopentadiene	237	8.079	8.074	0.005	95	31217	2.00	1.68	
73 1,2,4,5-Tetrachlorobenzene	216	8.084	8.079	0.005	96	55991	2.00	1.98	
74 2,4,6-Trichlorophenol	196	8.180	8.176	0.004	92	32071	2.00	1.88	
75 2,4,5-Trichlorophenol	196	8.212	8.208	0.004	93	35484	2.00	1.93	
76 1,1'-Biphenyl	154	8.351	8.346	0.005	94	109449	2.00	2.04	
77 2-Chloronaphthalene	162	8.378	8.373	0.005	97	87987	2.00	1.99	
79 2-Nitroaniline	65	8.458	8.453	0.005	79	18935	2.00	1.49	
82 Dimethyl phthalate	163	8.618	8.614	0.004	97	95843	2.00	1.83	
83 1,3-Dinitrobenzene	168	8.650	8.640	0.010	82	8816	2.00	2.06	
84 2,6-Dinitrotoluene	165	8.677	8.672	0.005	87	16070	2.00	1.50	
85 Acenaphthylene	152	8.762	8.758	0.004	97	114175	2.00	1.89	
86 3-Nitroaniline	138	8.832	8.827	0.005	89	17708	2.00	1.61	
88 Acenaphthene	153	8.923	8.918	0.005	92	80605	2.00	1.96	
87 2,4-Dinitrophenol	184	8.928	8.923	0.005	85	23582	4.00	4.16	
89 4-Nitrophenol	109	8.965	8.966	-0.001	90	35151	4.00	3.44	
91 2,4-Dinitrotoluene	165	9.045	9.041	0.004	86	22605	2.00	1.53	
93 Dibenzofuran	168	9.083	9.073	0.010	95	120759	2.00	1.97	
95 2,3,5,6-Tetrachlorophenol	232	9.152	9.148	0.004	92	27576	2.00	1.75	
96 2,3,4,6-Tetrachlorophenol	232	9.190	9.185	0.005	73	29200	2.00	1.83	
97 2-Naphthylamine	143	9.216	9.207	0.009	94	76053	2.00	2.03	
98 Diethyl phthalate	149	9.259	9.255	0.004	97	96268	2.00	1.91	
99 Hexadecane	57	9.275	9.271	0.004	95	57123	2.00	1.95	
100 4-Chlorophenyl phenyl ethe	204	9.382	9.378	0.004	94	56172	2.00	1.88	
101 4-Nitroaniline	138	9.393	9.383	0.010	77	17825	2.00	1.52	
103 Fluorene	166	9.398	9.388	0.010	95	94851	2.00	1.91	
104 4,6-Dinitro-2-methylphenol	198	9.425	9.420	0.005	86	25163	4.00	4.13	
105 N-Nitrosodiphenylamine	169	9.489	9.484	0.005	98	70343	2.00	1.88	
57 Azobenzene	77	9.532	9.527	0.005	98	99573	2.00	1.98	
90 1,2-Diphenylhydrazine	77	9.532	9.527	0.005	99	99573	2.00	1.99	
110 4-Bromophenyl phenyl ether	248	9.836	9.832	0.004	66	33139	2.00	1.88	
112 Hexachlorobenzene	284	9.916	9.906	0.010	94	35037	2.00	1.89	
113 Atrazine	200	9.959	9.954	0.005	94	29686	2.00	2.39	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
116 Pentachlorophenol	266	10.087	10.083	0.004	90	43688	4.00	3.31	
115 n-Octadecane	57	10.119	10.109	0.010	95	62026	2.00	1.95	
121 Phenanthrene	178	10.285	10.280	0.005	97	143554	2.00	1.89	
122 Anthracene	178	10.333	10.328	0.005	97	143092	2.00	1.88	
124 Carbazole	167	10.472	10.467	0.005	96	124649	2.00	1.87	
126 Di-n-butyl phthalate	149	10.776	10.772	0.004	100	142581	2.00	1.79	
131 Fluoranthene	202	11.530	11.520	0.010	97	165912	2.00	1.80	
132 Benzidine	184	11.652	11.648	0.004	0	54762	2.00	2.06	
133 Pyrene	202	11.813	11.803	0.010	98	175708	2.00	1.95	
138 Butyl benzyl phthalate	149	12.667	12.658	0.009	97	56121	2.00	1.63	
144 3,3'-Dichlorobenzidine	252	13.576	13.560	0.016	73	49848	2.00	2.10	
146 Benzo[a]anthracene	228	13.640	13.625	0.016	97	166857	2.00	1.84	
145 Bis(2-ethylhexyl) phthalat	149	13.661	13.641	0.020	52	75542	2.00	1.58	
147 Chrysene	228	13.704	13.689	0.015	96	165353	2.00	1.95	
150 Di-n-octyl phthalate	149	14.938	14.923	0.015	99	109772	2.00	2.12	
151 7,12-Dimethylbenz(a)anthra	256	15.718	15.697	0.021	91	71972	2.00	1.62	
152 Benzo[b]fluoranthene	252	15.734	15.708	0.026	95	170972	2.00	1.75	
153 Benzo[k]fluoranthene	252	15.787	15.767	0.020	98	155809	2.00	1.76	
219 Benzo[e]pyrene	252	16.295	16.274	0.021	96	149516	2.00	1.78	
154 Benzo[a]pyrene	252	16.402	16.381	0.021	77	138414	2.00	1.69	
157 Indeno[1,2,3-cd]pyrene	276	18.667	18.641	0.026	98	164647	2.00	1.75	M
158 Dibenz(a,h)anthracene	278	18.709	18.678	0.031	88	139282	2.00	1.76	M
159 Benzo[g,h,i]perylene	276	19.222	19.191	0.031	98	136877	2.00	1.77	
S 197 Methyl Phenols,Total	108				0		4.00	3.78	
S 199 Total Cresols	108				0		4.00	3.78	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

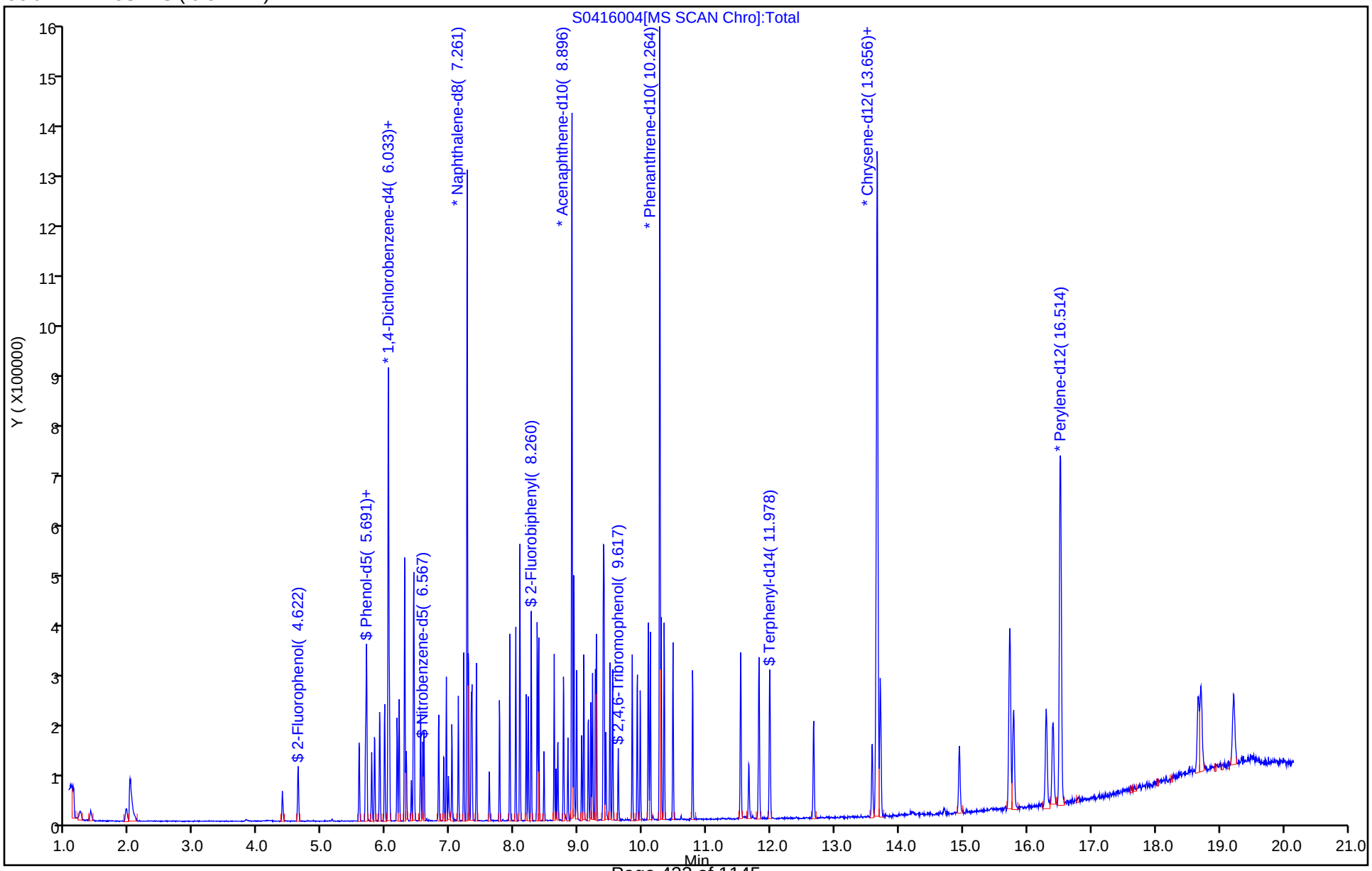
SVTAPSTD2.0i_00017 Amount Added: 1.00 Units: mL

Report Date: 17-Apr-2018 09:49:58 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416004.D				
Injection Date:	16-Apr-2018 10:05:30	Instrument ID:	CH71	Operator ID:	001562
Lims ID:	IC R2.0			Worklist Smp#:	4
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



Manual Integration/User Assign Peak Report

TestAmerica Pittsburgh

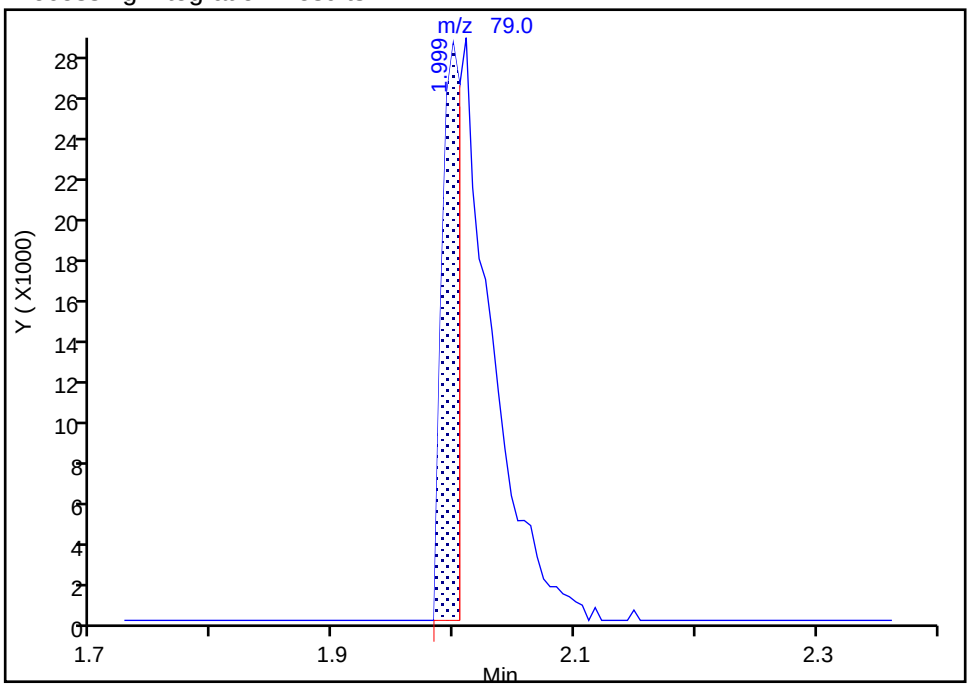
Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416004.D				
Injection Date:	16-Apr-2018 10:05:30	Instrument ID:	CH71		
Lims ID:	IC R2.0				
Client ID:					
Operator ID:	001562	ALS Bottle#:	3	Worklist Smp#:	4
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

15 Pyridine, CAS: 110-86-1

Signal: 1

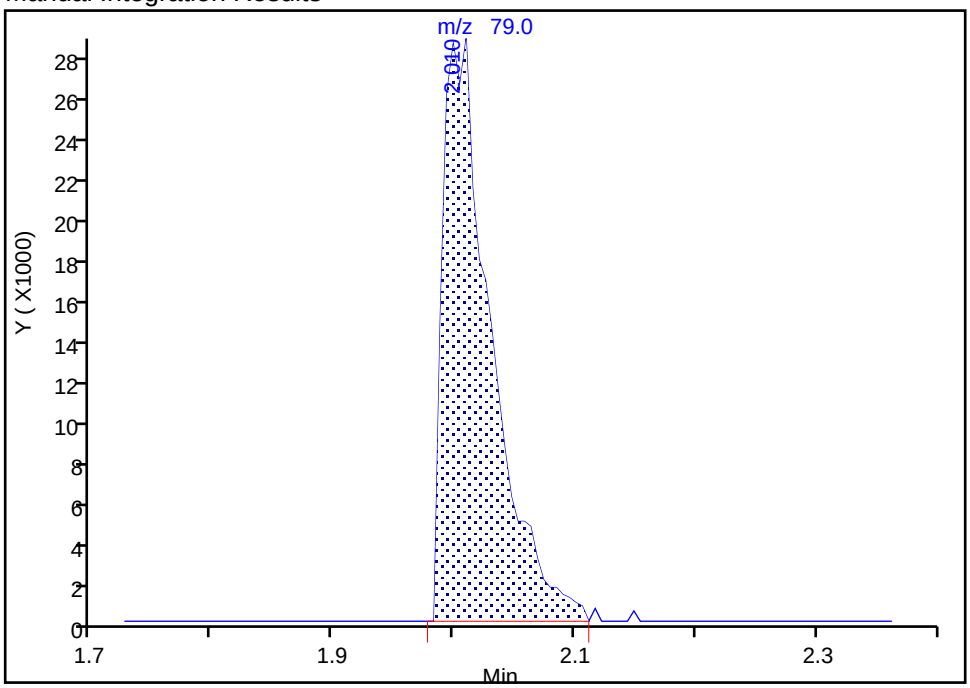
Processing Integration Results

RT: 2.00
Area: 30674
Amount: 2.198704
Amount Units: ng



Manual Integration Results

RT: 2.01
Area: 79275
Amount: 3.967500
Amount Units: ng



Reviewer: fergusond, 16-Apr-2018 10:42:20

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pittsburgh

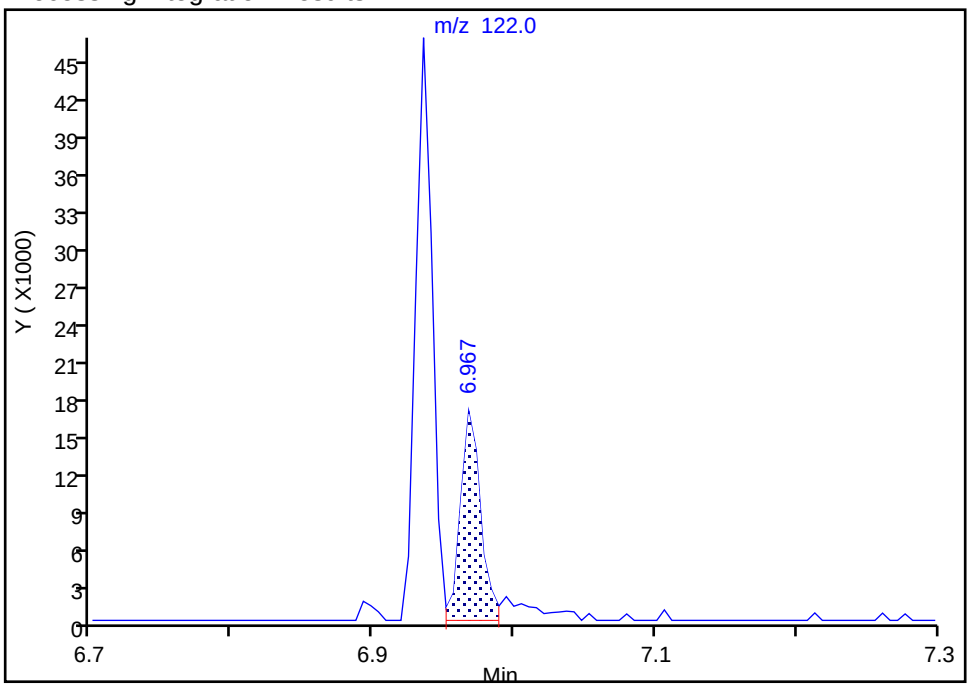
Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416004.D				
Injection Date:	16-Apr-2018 10:05:30	Instrument ID:	CH71		
Lims ID:	IC R2.0				
Client ID:					
Operator ID:	001562	ALS Bottle#:	3	Worklist Smp#:	4
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

52 Benzoic acid, CAS: 65-85-0

Signal: 1

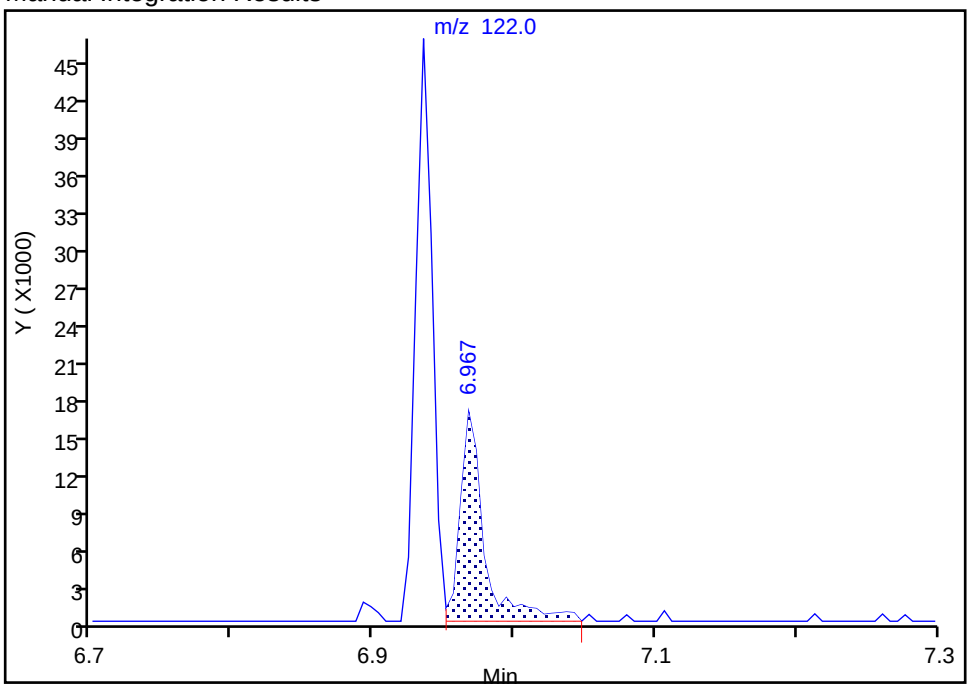
Processing Integration Results

RT: 6.97
Area: 16746
Amount: 1.578716
Amount Units: ng



Manual Integration Results

RT: 6.97
Area: 19816
Amount: 1.783282
Amount Units: ng



Reviewer: fergusond, 16-Apr-2018 10:43:16

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pittsburgh

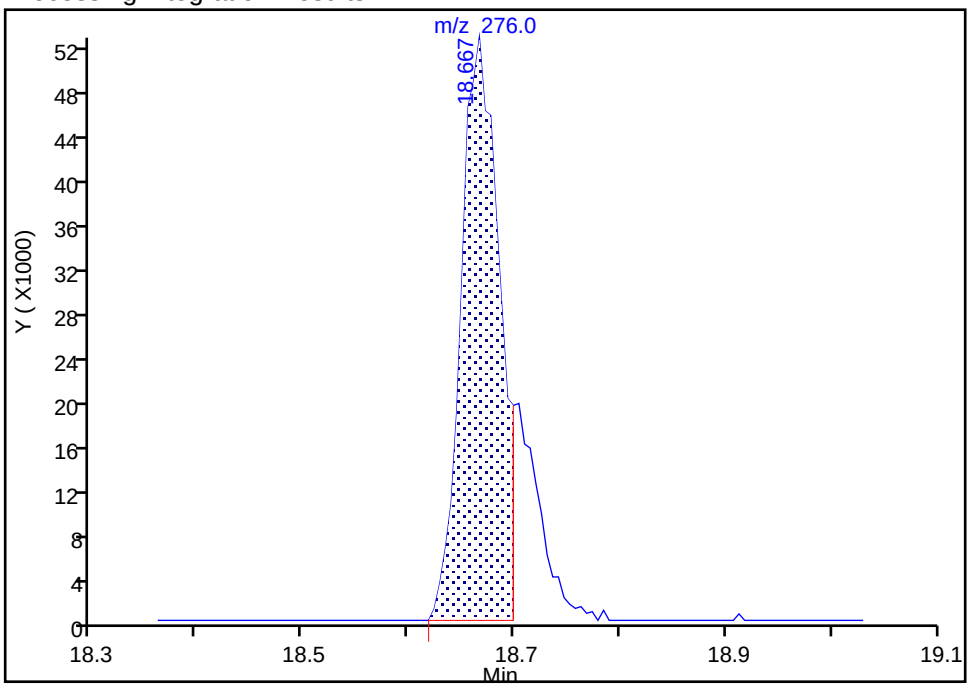
Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416004.D				
Injection Date:	16-Apr-2018 10:05:30	Instrument ID:	CH71		
Lims ID:	IC R2.0				
Client ID:					
Operator ID:	001562	ALS Bottle#:	3	Worklist Smp#:	4
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

157 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

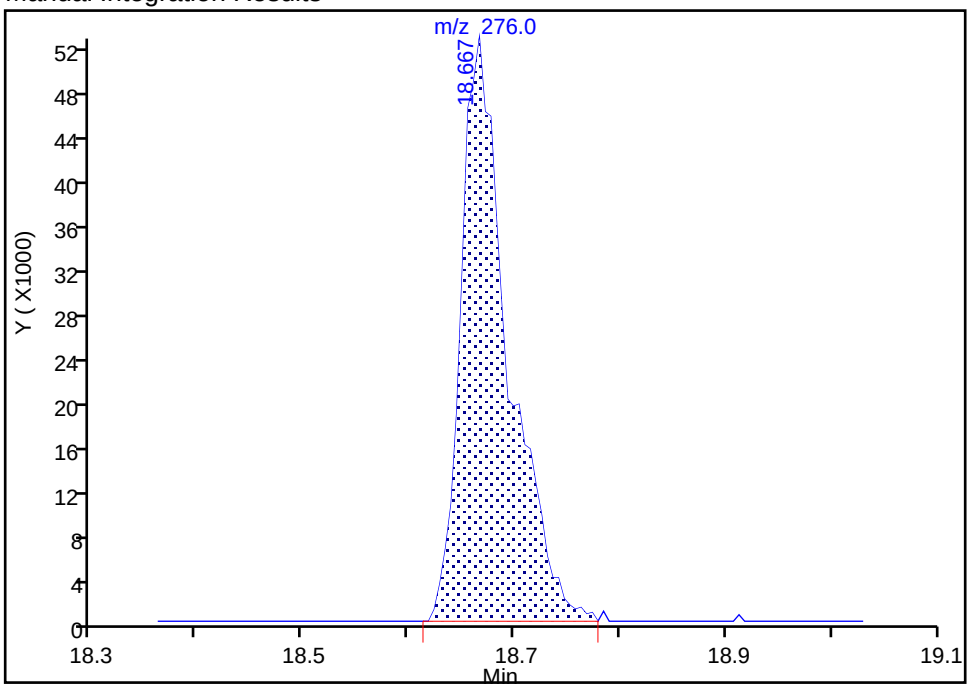
Processing Integration Results

RT: 18.67
Area: 134269
Amount: 1.835231
Amount Units: ng



Manual Integration Results

RT: 18.67
Area: 164647
Amount: 1.754416
Amount Units: ng



Reviewer: fergusond, 16-Apr-2018 10:44:38

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pittsburgh

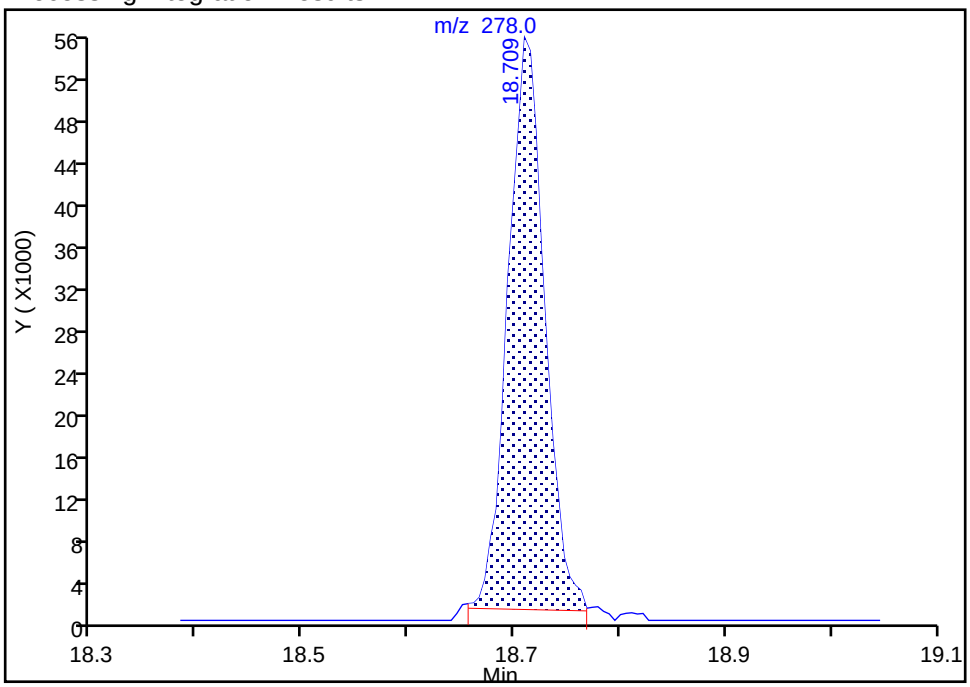
Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416004.D				
Injection Date:	16-Apr-2018 10:05:30	Instrument ID:	CH71		
Lims ID:	IC R2.0				
Client ID:					
Operator ID:	001562	ALS Bottle#:	3	Worklist Smp#:	4
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

158 Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

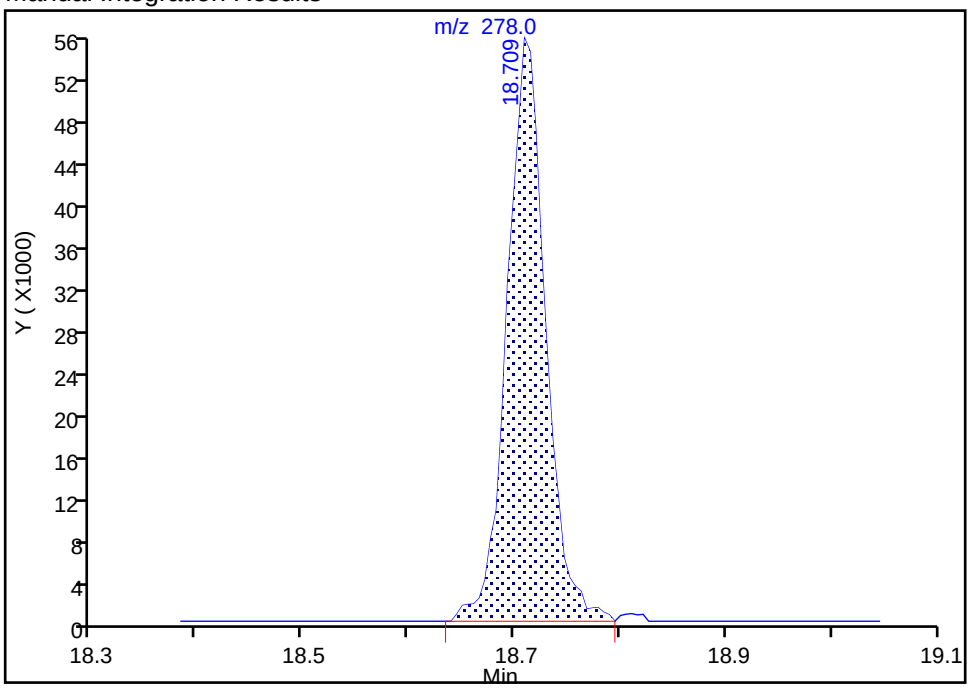
Processing Integration Results

RT: 18.71
Area: 130078
Amount: 2.018840
Amount Units: ng



Manual Integration Results

RT: 18.71
Area: 139282
Amount: 1.755605
Amount Units: ng



Reviewer: fergusond, 16-Apr-2018 10:44:57

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416005.D
Lims ID: IC R4.0
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 16-Apr-2018 10:33:30 ALS Bottle#: 4 Worklist Smp#: 5
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0021340-005
Misc. Info.: IC R4.0
Operator ID: 001562 Instrument ID: CH71
Sublist: chrom-BNA_CH71*sub9

Method: \\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\BNA_CH71.m
Limit Group: BNA 8270D ICAL
Last Update: 17-Apr-2018 09:50:04 Calib Date: 16-Apr-2018 17:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416021.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: fergusond Date: 16-Apr-2018 11:21:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.031	6.023	0.008	97	137165	8.00	8.00	
* 2 Naphthalene-d8	136	7.260	7.251	0.009	100	512293	8.00	8.00	
* 3 Acenaphthene-d10	164	8.889	8.886	0.003	96	284721	8.00	8.00	
* 4 Phenanthrene-d10	188	10.267	10.259	0.008	97	592692	8.00	8.00	
* 5 Chrysene-d12	240	13.665	13.641	0.024	98	647503	8.00	8.00	
* 6 Perylene-d12	264	16.523	16.499	0.024	99	574885	8.00	8.00	
$ 7 2-Fluorophenol	112	4.626	4.607	0.019	92	85927	4.00	3.98	
$ 8 Phenol-d5	99	5.673	5.665	0.008	97	113075	4.00	4.13	
$ 9 Nitrobenzene-d5	82	6.565	6.557	0.008	90	93642	4.00	3.99	
$ 10 2-Fluorobiphenyl	172	8.259	8.256	0.003	99	236666	4.00	4.02	
$ 11 2,4,6-Tribromophenol	330	9.616	9.613	0.003	90	29542	4.00	3.72	
$ 12 Terphenyl-d14	244	11.987	11.974	0.013	99	267683	4.00	3.86	
13 1,4-Dioxane	88	1.383	1.370	0.013	93	31070	4.00	4.03	
14 N-Nitrosodimethylamine	74	1.934	1.920	0.014	83	44987	4.00	4.17	M
15 Pyridine	79	1.992	1.995	-0.003	96	167315	8.00	8.40	M
21 Methyl methanesulfonate	80	4.375	4.367	0.008	87	52572	4.00	4.33	
25 Benzaldehyde	77	5.577	5.563	0.014	94	65756	4.00	4.05	
27 Aniline	93	5.694	5.681	0.013	96	148526	4.00	4.30	
26 Phenol	94	5.689	5.681	0.008	97	125847	4.00	4.05	
29 Bis(2-chloroethyl)ether	93	5.769	5.761	0.008	98	94233	4.00	4.11	
30 2-Chlorophenol	128	5.817	5.809	0.008	96	92361	4.00	3.98	
31 n-Decane	43	5.892	5.889	0.003	86	79113	4.00	4.19	
32 1,3-Dichlorobenzene	146	5.972	5.964	0.008	97	110770	4.00	3.99	
33 1,4-Dichlorobenzene	146	6.047	6.039	0.008	92	112307	4.00	4.07	
34 Benzyl alcohol	108	6.165	6.162	0.003	91	58340	4.00	3.89	
35 1,2-Dichlorobenzene	146	6.197	6.188	0.009	95	106509	4.00	4.04	
37 Indene	116	6.282	6.279	0.003	88	165868	4.00	4.08	
36 2-Methylphenol	108	6.282	6.279	0.003	75	92468	4.00	4.32	
38 2,2'-oxybis[1-chloropropan	45	6.309	6.300	0.009	90	108142	4.00	4.26	
39 N-Nitrosopyrrolidine	100	6.389	6.386	0.003	92	38188	4.00	3.93	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
40 Acetophenone	105	6.421	6.413	0.008	98	137378	4.00	4.13	
41 N-Nitrosodi-n-propylamine	70	6.426	6.423	0.003	84	64636	4.00	4.39	
42 4-Methylphenol	108	6.432	6.429	0.003	93	95456	4.00	4.26	
45 Hexachloroethane	117	6.533	6.525	0.008	88	44677	4.00	4.19	
46 Nitrobenzene	77	6.587	6.578	0.009	89	103004	4.00	4.25	
48 Isophorone	82	6.816	6.808	0.008	99	171375	4.00	3.94	
49 2-Nitrophenol	139	6.896	6.888	0.008	98	42292	4.00	3.81	
50 2,4-Dimethylphenol	107	6.934	6.931	0.003	98	104572	4.00	4.20	
52 Benzoic acid	122	6.971	6.952	0.019	88	46373	4.00	4.15	
53 Bis(2-chloroethoxy)methane	93	7.019	7.016	0.003	99	112177	4.00	4.05	
54 2,4-Dichlorophenol	162	7.121	7.112	0.009	95	83583	4.00	4.00	
56 1,2,4-Trichlorobenzene	180	7.206	7.198	0.008	92	101956	4.00	4.02	
58 Naphthalene	128	7.281	7.273	0.008	97	281152	4.00	4.05	
59 4-Chloroaniline	127	7.324	7.315	0.009	95	114219	4.00	4.14	
60 2,6-Dichlorophenol	162	7.334	7.331	0.003	95	85737	4.00	4.17	
62 Hexachlorobutadiene	225	7.404	7.396	0.008	95	69987	4.00	3.96	
64 Caprolactam	113	7.607	7.599	0.008	80	23479	4.00	3.55	
67 4-Chloro-3-methylphenol	107	7.762	7.759	0.003	94	83441	4.00	3.92	
69 2-Methylnaphthalene	142	7.922	7.919	0.003	90	180021	4.00	3.92	
71 1-Methylnaphthalene	142	8.018	8.010	0.008	92	166662	4.00	3.91	
72 Hexachlorocyclopentadiene	237	8.077	8.074	0.003	95	72494	4.00	3.72	
73 1,2,4,5-Tetrachlorobenzene	216	8.082	8.079	0.003	97	116694	4.00	3.93	
74 2,4,6-Trichlorophenol	196	8.179	8.176	0.003	92	69816	4.00	3.89	
75 2,4,5-Trichlorophenol	196	8.211	8.208	0.003	95	77557	4.00	4.03	
76 1,1'-Biphenyl	154	8.349	8.346	0.003	96	219451	4.00	3.90	
77 2-Chloronaphthalene	162	8.376	8.373	0.003	97	187338	4.00	4.04	
79 2-Nitroaniline	65	8.456	8.453	0.003	77	48611	4.00	3.64	
82 Dimethyl phthalate	163	8.617	8.614	0.003	98	220297	4.00	4.00	
83 1,3-Dinitrobenzene	168	8.643	8.640	0.003	85	24288	4.00	3.79	
84 2,6-Dinitrotoluene	165	8.670	8.672	-0.002	88	41522	4.00	3.70	
85 Acenaphthylene	152	8.761	8.758	0.003	98	247262	4.00	3.90	
86 3-Nitroaniline	138	8.830	8.827	0.003	89	42452	4.00	3.66	
88 Acenaphthene	153	8.921	8.918	0.003	91	166822	4.00	3.87	
87 2,4-Dinitrophenol	184	8.921	8.923	-0.002	80	60157	8.00	7.78	
89 4-Nitrophenol	109	8.964	8.966	-0.002	90	83019	8.00	7.74	
91 2,4-Dinitrotoluene	165	9.044	9.041	0.003	88	55406	4.00	3.58	
93 Dibenzofuran	168	9.076	9.073	0.003	95	256448	4.00	3.98	
95 2,3,5,6-Tetrachlorophenol	232	9.145	9.148	-0.003	92	63329	4.00	3.84	
96 2,3,4,6-Tetrachlorophenol	232	9.188	9.185	0.003	72	64529	4.00	3.84	
97 2-Naphthylamine	143	9.215	9.207	0.008	93	160428	4.00	4.08	
98 Diethyl phthalate	149	9.258	9.255	0.003	97	206218	4.00	3.90	
99 Hexadecane	57	9.274	9.271	0.003	95	129647	4.00	4.41	
100 4-Chlorophenyl phenyl ethe	204	9.381	9.378	0.003	92	121743	4.00	3.89	
101 4-Nitroaniline	138	9.391	9.383	0.008	79	44564	4.00	3.62	
103 Fluorene	166	9.391	9.388	0.003	93	200853	4.00	3.85	
104 4,6-Dinitro-2-methylphenol	198	9.423	9.420	0.003	85	65226	8.00	7.58	
105 N-Nitrosodiphenylamine	169	9.487	9.484	0.003	99	155533	4.00	3.99	
90 1,2-Diphenylhydrazine	77	9.525	9.527	-0.002	98	220119	4.00	4.22	
57 Azobenzene	77	9.525	9.527	-0.002	98	220119	4.00	4.21	
110 4-Bromophenyl phenyl ether	248	9.835	9.832	0.003	66	72537	4.00	3.96	
112 Hexachlorobenzene	284	9.915	9.906	0.009	93	73732	4.00	3.84	
113 Atrazine	200	9.957	9.954	0.003	94	67159	4.00	4.08	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
116 Pentachlorophenol	266	10.086	10.083	0.003	91	109852	8.00	8.01	
115 n-Octadecane	57	10.118	10.109	0.009	94	131815	4.00	4.16	
121 Phenanthrene	178	10.289	10.280	0.009	97	305354	4.00	3.87	
122 Anthracene	178	10.337	10.328	0.009	97	304148	4.00	3.85	
124 Carbazole	167	10.470	10.467	0.003	96	273521	4.00	3.96	
126 Di-n-butyl phthalate	149	10.780	10.772	0.008	100	316194	4.00	3.82	
131 Fluoranthene	202	11.528	11.520	0.008	97	370541	4.00	3.86	
132 Benzidine	184	11.656	11.648	0.008	0	131431	4.00	3.66	
133 Pyrene	202	11.817	11.803	0.014	98	384512	4.00	3.98	
138 Butyl benzyl phthalate	149	12.671	12.658	0.013	98	128490	4.00	3.48	
144 3,3'-Dichlorobenzidine	252	13.585	13.560	0.025	74	115478	4.00	3.74	
146 Benzo[a]anthracene	228	13.649	13.625	0.025	97	382117	4.00	3.95	
145 Bis(2-ethylhexyl) phthalat	149	13.665	13.641	0.024	93	186818	4.00	3.66	
147 Chrysene	228	13.713	13.689	0.024	96	366302	4.00	4.04	
150 Di-n-octyl phthalate	149	14.947	14.923	0.024	100	261201	4.00	3.58	
151 7,12-Dimethylbenz(a)anthra	256	15.732	15.697	0.035	89	158670	4.00	3.40	
152 Benzo[b]fluoranthene	252	15.738	15.708	0.030	97	385854	4.00	3.75	
153 Benzo[k]fluoranthene	252	15.796	15.767	0.029	99	358006	4.00	3.85	
219 Benzo[e]pyrene	252	16.304	16.274	0.030	96	327090	4.00	3.70	
154 Benzo[a]pyrene	252	16.405	16.381	0.024	76	323998	4.00	3.76	
157 Indeno[1,2,3-cd]pyrene	276	18.687	18.641	0.046	98	364960	4.00	3.69	
158 Dibenz(a,h)anthracene	278	18.724	18.678	0.046	87	309987	4.00	3.71	
159 Benzo[g,h,i]perylene	276	19.237	19.191	0.046	98	302367	4.00	3.71	
S 199 Total Cresols	108				0		8.00	8.58	
S 197 Methyl Phenols,Total	108				0		8.00	8.58	

QC Flag Legend

Review Flags

M - Manually Integrated

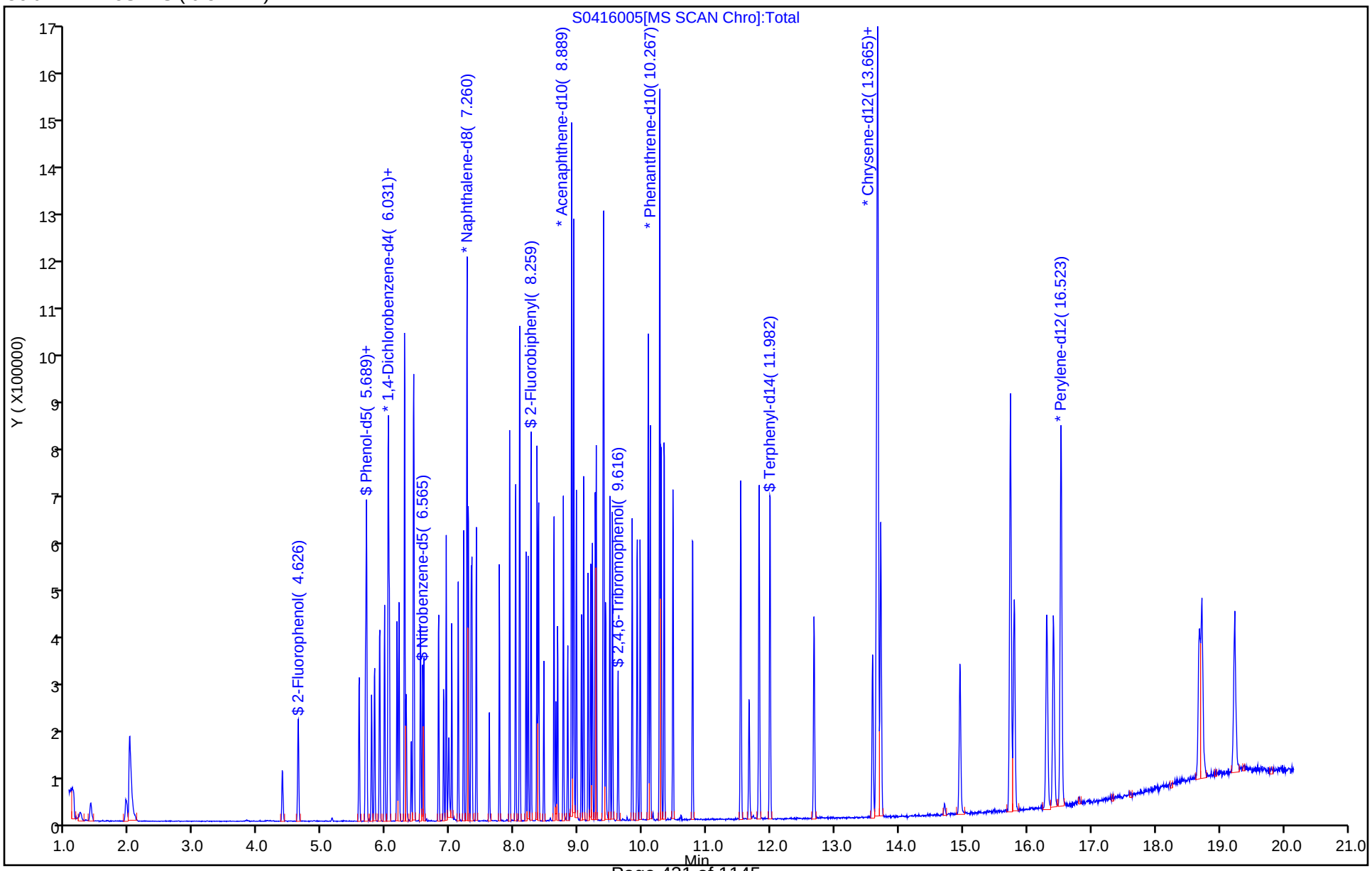
Reagents:

SVTAPSTD4.0i_00015 Amount Added: 1.00 Units: mL

Report Date: 17-Apr-2018 09:50:06 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416005.D				
Injection Date:	16-Apr-2018 10:33:30	Instrument ID:	CH71	Operator ID:	001562
Lims ID:	IC R4.0			Worklist Smp#:	5
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column: Rxi-5SilMS (0.32 mm)					



TestAmerica Pittsburgh

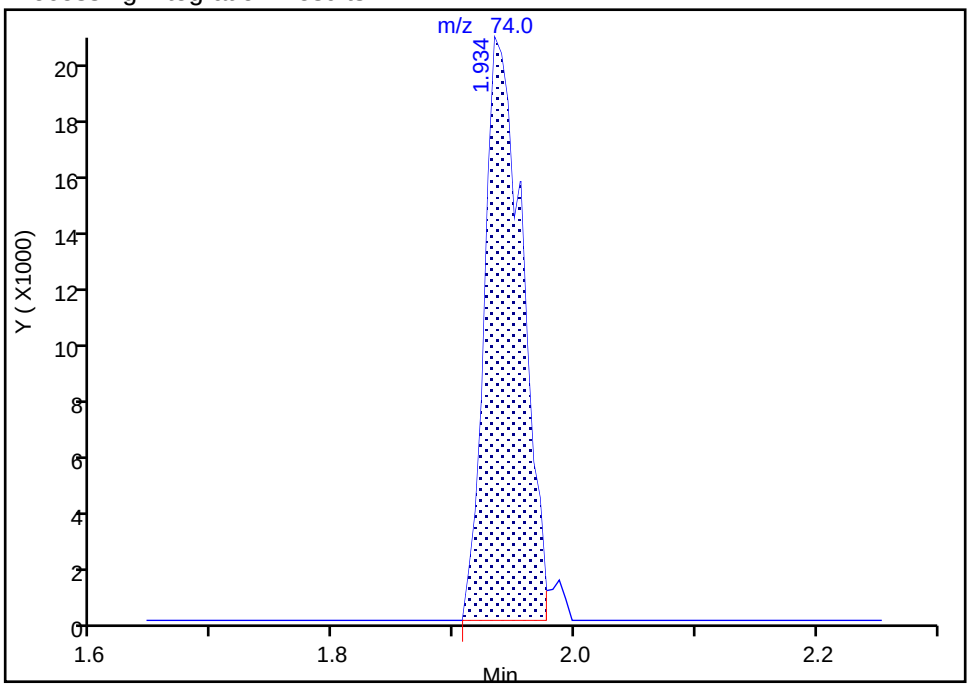
Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416005.D				
Injection Date:	16-Apr-2018 10:33:30	Instrument ID:	CH71		
Lims ID:	IC R4.0				
Client ID:					
Operator ID:	001562	ALS Bottle#:	4	Worklist Smp#:	5
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

14 N-Nitrosodimethylamine, CAS: 62-75-9

Signal: 1

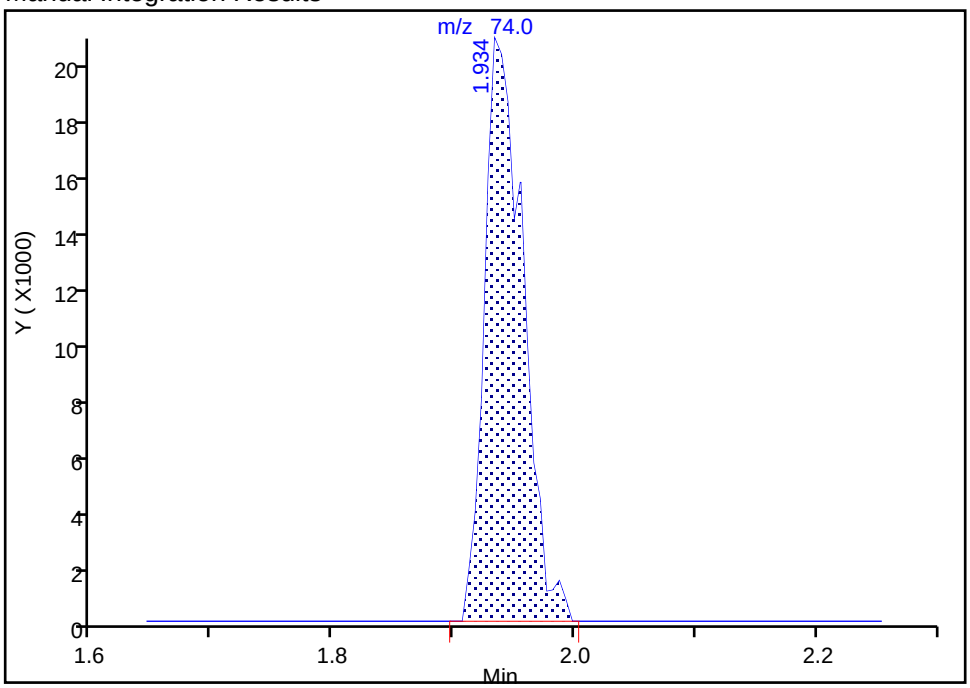
Processing Integration Results

RT: 1.93
Area: 43944
Amount: 4.338513
Amount Units: ng



Manual Integration Results

RT: 1.93
Area: 44987
Amount: 4.174021
Amount Units: ng



Reviewer: fergusond, 16-Apr-2018 11:19:09
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pittsburgh

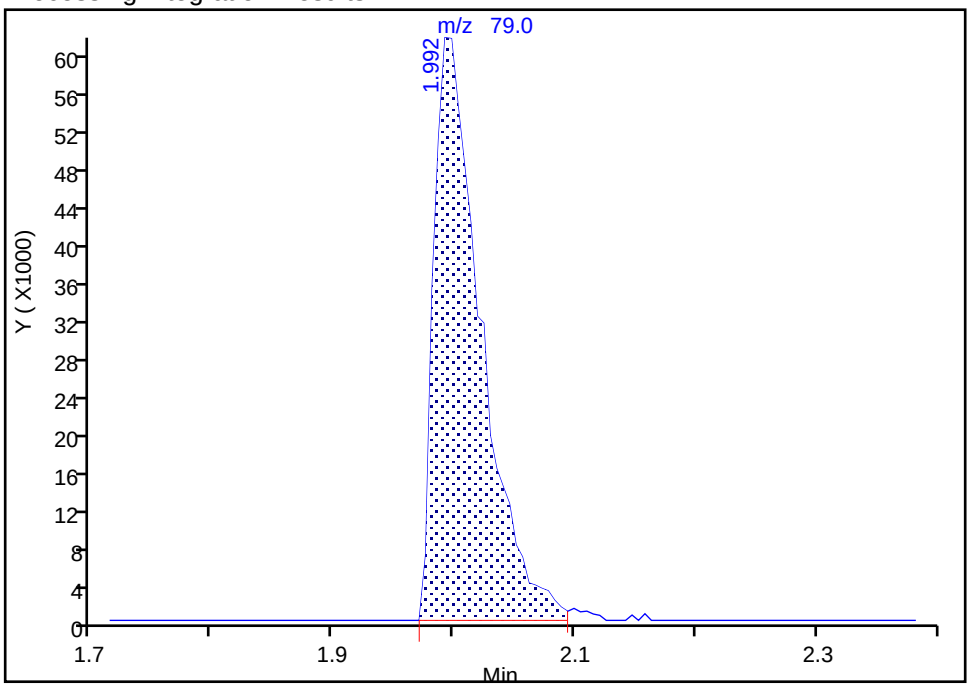
Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416005.D				
Injection Date:	16-Apr-2018 10:33:30	Instrument ID:	CH71		
Lims ID:	IC R4.0				
Client ID:					
Operator ID:	001562	ALS Bottle#:	4	Worklist Smp#:	5
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

15 Pyridine, CAS: 110-86-1

Signal: 1

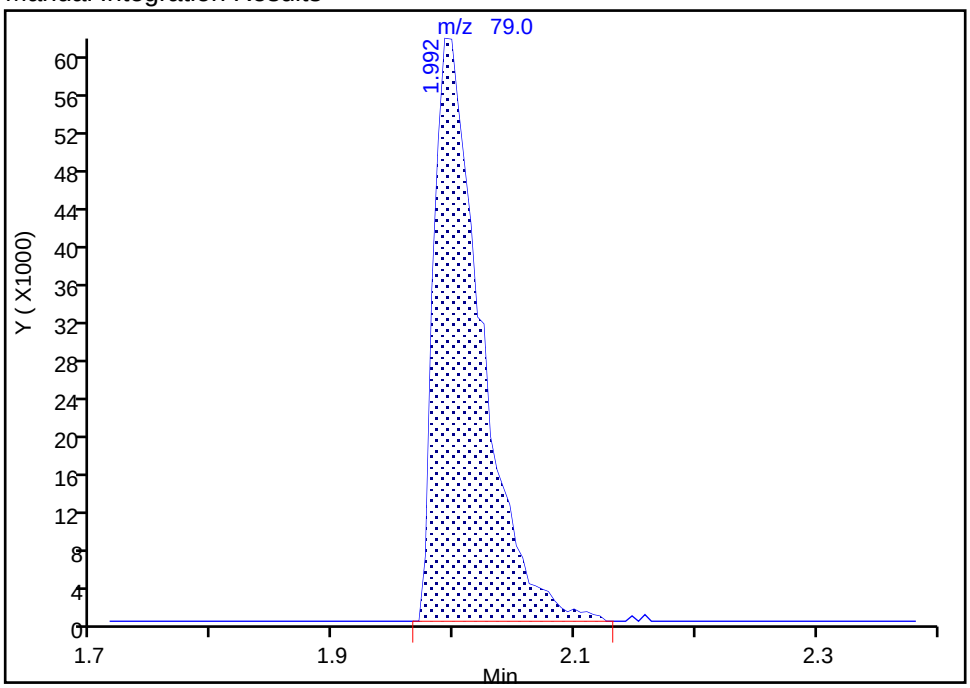
Processing Integration Results

RT: 1.99
Area: 165911
Amount: 8.207561
Amount Units: ng



Manual Integration Results

RT: 1.99
Area: 167315
Amount: 8.404678
Amount Units: ng



Reviewer: fergusond, 16-Apr-2018 11:19:31

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416006.D
Lims ID: ICIS R10
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 16-Apr-2018 11:01:30 ALS Bottle#: 5 Worklist Smp#: 6
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0021340-006
Misc. Info.: ICIS R10
Operator ID: 001562 Instrument ID: CH71
Sublist: chrom-BNA_CH71*sub9

Method: \\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\BNA_CH71.m
Limit Group: BNA 8270D ICAL
Last Update: 17-Apr-2018 09:50:13 Calib Date: 16-Apr-2018 17:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416021.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: fergusond Date: 17-Apr-2018 09:48:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.022	6.022	0.000	98	125276	8.00	8.00	
* 2 Naphthalene-d8	136	7.251	7.251	0.000	100	466480	8.00	8.00	
* 3 Acenaphthene-d10	164	8.880	8.880	0.000	95	256501	8.00	8.00	
* 4 Phenanthrene-d10	188	10.253	10.253	0.000	96	541342	8.00	8.00	
* 5 Chrysene-d12	240	13.650	13.650	0.000	96	625444	8.00	8.00	
* 6 Perylene-d12	264	16.514	16.514	0.000	99	522726	8.00	8.00	
$ 7 2-Fluorophenol	112	4.617	4.617	0.000	91	198872	10.0	10.1	
$ 8 Phenol-d5	99	5.669	5.669	0.000	97	254637	10.0	10.2	
$ 9 Nitrobenzene-d5	82	6.556	6.556	0.000	89	218902	10.0	10.2	
$ 10 2-Fluorobiphenyl	172	8.250	8.250	0.000	99	535839	10.0	10.1	
$ 11 2,4,6-Tribromophenol	330	9.606	9.606	0.000	92	74143	10.0	10.2	
$ 12 Terphenyl-d14	244	11.973	11.973	0.000	99	650670	10.0	9.72	
13 1,4-Dioxane	88	1.385	1.385	0.000	92	72930	10.0	10.4	
14 N-Nitrosodimethylamine	74	1.935	1.935	0.000	94	103548	10.0	10.5	
15 Pyridine	79	1.989	1.989	0.000	98	371518	20.0	20.4	
21 Methyl methanesulfonate	80	4.371	4.371	0.000	87	101445	10.0	9.15	
25 Benzaldehyde	77	5.568	5.568	0.000	95	166596	10.0	11.2	
26 Phenol	94	5.680	5.680	0.000	97	289548	10.0	10.2	
27 Aniline	93	5.685	5.685	0.000	98	316082	10.0	10.0	
29 Bis(2-chloroethyl)ether	93	5.760	5.760	0.000	99	207596	10.0	9.90	
30 2-Chlorophenol	128	5.808	5.808	0.000	95	215555	10.0	10.2	
31 n-Decane	43	5.888	5.888	0.000	87	178682	10.0	10.4	
32 1,3-Dichlorobenzene	146	5.963	5.963	0.000	97	254445	10.0	10.0	
33 1,4-Dichlorobenzene	146	6.038	6.038	0.000	92	253250	10.0	10.1	
34 Benzyl alcohol	108	6.155	6.155	0.000	91	138811	10.0	10.1	
35 1,2-Dichlorobenzene	146	6.188	6.188	0.000	95	237817	10.0	9.88	
36 2-Methylphenol	108	6.278	6.278	0.000	74	199322	10.0	10.2	
37 Indene	116	6.278	6.278	0.000	90	375025	10.0	10.1	
38 2,2'-oxybis[1-chloropropan	45	6.300	6.300	0.000	92	230808	10.0	9.96	
39 N-Nitrosopyrrolidine	100	6.380	6.380	0.000	92	88800	10.0	10.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
40 Acetophenone	105	6.412	6.412	0.000	93	314914	10.0	10.4	
41 N-Nitrosodi-n-propylamine	70	6.417	6.417	0.000	88	138761	10.0	10.3	
42 4-Methylphenol	108	6.423	6.423	0.000	92	213583	10.0	10.4	
45 Hexachloroethane	117	6.524	6.524	0.000	91	100151	10.0	10.3	
46 Nitrobenzene	77	6.577	6.577	0.000	89	229257	10.0	10.4	
48 Isophorone	82	6.807	6.807	0.000	99	413817	10.0	10.4	
49 2-Nitrophenol	139	6.882	6.882	0.000	98	102973	10.0	10.2	
50 2,4-Dimethylphenol	107	6.925	6.925	0.000	97	229972	10.0	10.1	
52 Benzoic acid	122	6.973	6.973	0.000	87	86064	10.0	8.45	
53 Bis(2-chloroethoxy)methane	93	7.010	7.010	0.000	99	251625	10.0	9.98	
54 2,4-Dichlorophenol	162	7.112	7.112	0.000	95	192458	10.0	10.1	
56 1,2,4-Trichlorobenzene	180	7.197	7.197	0.000	93	226539	10.0	9.82	
58 Naphthalene	128	7.267	7.267	0.000	97	627328	10.0	9.93	
59 4-Chloroaniline	127	7.315	7.315	0.000	95	251865	10.0	10.0	
60 2,6-Dichlorophenol	162	7.325	7.325	0.000	97	189150	10.0	10.1	
62 Hexachlorobutadiene	225	7.395	7.395	0.000	95	160042	10.0	9.94	
64 Caprolactam	113	7.598	7.598	0.000	80	57374	10.0	9.52	
67 4-Chloro-3-methylphenol	107	7.753	7.753	0.000	94	198897	10.0	10.3	
69 2-Methylnaphthalene	142	7.913	7.913	0.000	91	407087	10.0	9.74	
71 1-Methylnaphthalene	142	8.004	8.004	0.000	91	385173	10.0	9.93	
72 Hexachlorocyclopentadiene	237	8.068	8.068	0.000	96	177009	10.0	10.1	
73 1,2,4,5-Tetrachlorobenzene	216	8.073	8.073	0.000	96	265762	10.0	9.94	
74 2,4,6-Trichlorophenol	196	8.169	8.169	0.000	92	162502	10.0	10.0	
75 2,4,5-Trichlorophenol	196	8.201	8.201	0.000	94	179903	10.0	10.4	
76 1,1'-Biphenyl	154	8.340	8.340	0.000	95	510632	10.0	10.1	
77 2-Chloronaphthalene	162	8.367	8.367	0.000	97	421592	10.0	10.1	
79 2-Nitroaniline	65	8.447	8.447	0.000	78	119530	10.0	9.93	
82 Dimethyl phthalate	163	8.607	8.607	0.000	98	497217	10.0	10.0	
83 1,3-Dinitrobenzene	168	8.634	8.634	0.000	85	67980	10.0	9.71	
84 2,6-Dinitrotoluene	165	8.661	8.661	0.000	92	103260	10.0	10.2	
85 Acenaphthylene	152	8.752	8.752	0.000	98	581344	10.0	10.2	
86 3-Nitroaniline	138	8.821	8.821	0.000	91	103963	10.0	9.96	
88 Acenaphthene	153	8.912	8.912	0.000	92	386761	10.0	9.95	
87 2,4-Dinitrophenol	184	8.912	8.912	0.000	83	138403	20.0	17.3	
89 4-Nitrophenol	109	8.955	8.955	0.000	91	203234	20.0	21.0	
91 2,4-Dinitrotoluene	165	9.035	9.035	0.000	89	143499	10.0	10.3	
93 Dibenzofuran	168	9.067	9.067	0.000	95	567874	10.0	9.79	
95 2,3,5,6-Tetrachlorophenol	232	9.136	9.136	0.000	92	150229	10.0	10.1	
96 2,3,4,6-Tetrachlorophenol	232	9.179	9.179	0.000	72	149515	10.0	9.88	
97 2-Naphthylamine	143	9.206	9.206	0.000	92	350960	10.0	9.92	
98 Diethyl phthalate	149	9.254	9.254	0.000	98	486331	10.0	10.2	
99 Hexadecane	57	9.265	9.265	0.000	93	295224	10.0	11.0	
100 4-Chlorophenyl phenyl ethe	204	9.371	9.371	0.000	93	271287	10.0	9.62	
101 4-Nitroaniline	138	9.377	9.377	0.000	79	115531	10.0	10.4	
103 Fluorene	166	9.382	9.382	0.000	94	466759	10.0	9.94	
104 4,6-Dinitro-2-methylphenol	198	9.414	9.414	0.000	88	181527	20.0	19.3	
105 N-Nitrosodiphenylamine	169	9.478	9.478	0.000	97	365379	10.0	10.3	
57 Azobenzene	77	9.516	9.516	0.000	98	505531	10.0	10.6	
90 1,2-Diphenylhydrazine	77	9.516	9.516	0.000	99	505531	10.0	10.6	
110 4-Bromophenyl phenyl ether	248	9.826	9.826	0.000	66	167009	10.0	9.97	
112 Hexachlorobenzene	284	9.906	9.906	0.000	93	178899	10.0	10.2	
113 Atrazine	200	9.948	9.948	0.000	94	146559	10.0	8.42	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
116 Pentachlorophenol	266	10.077	10.077	0.000	91	223157	20.0	17.8	
115 n-Octadecane	57	10.109	10.109	0.000	94	310067	10.0	10.7	
121 Phenanthrene	178	10.274	10.274	0.000	97	719565	10.0	9.98	
122 Anthracene	178	10.322	10.322	0.000	97	729436	10.0	10.1	
124 Carbazole	167	10.461	10.461	0.000	96	641522	10.0	10.2	
126 Di-n-butyl phthalate	149	10.766	10.766	0.000	100	803807	10.0	10.6	
131 Fluoranthene	202	11.519	11.519	0.000	97	881931	10.0	10.1	
132 Benzidine	184	11.653	11.653	0.000	0	374751	10.0	9.31	
133 Pyrene	202	11.807	11.807	0.000	98	915757	10.0	9.82	
138 Butyl benzyl phthalate	149	12.662	12.662	0.000	97	340875	10.0	9.56	
144 3,3'-Dichlorobenzidine	252	13.576	13.576	0.000	74	307487	10.0	9.13	
146 Benzo[a]anthracene	228	13.634	13.634	0.000	97	898741	10.0	9.62	
145 Bis(2-ethylhexyl) phthalat	149	13.650	13.650	0.000	94	480940	10.0	9.76	
147 Chrysene	228	13.704	13.704	0.000	96	848985	10.0	9.69	
150 Di-n-octyl phthalate	149	14.938	14.938	0.000	100	766530	10.0	9.41	
151 7,12-Dimethylbenz(a)anthra	256	15.718	15.718	0.000	91	398438	10.0	9.38	
152 Benzo[b]fluoranthene	252	15.729	15.729	0.000	96	932757	10.0	9.96	
153 Benzo[k]fluoranthene	252	15.782	15.782	0.000	98	836882	10.0	9.90	
219 Benzo[e]pyrene	252	16.289	16.289	0.000	96	797984	10.0	9.92	
154 Benzo[a]pyrene	252	16.396	16.396	0.000	77	790161	10.0	10.1	
157 Indeno[1,2,3-cd]pyrene	276	18.677	18.677	0.000	98	882618	10.0	9.82	
158 Dibenz(a,h)anthracene	278	18.715	18.715	0.000	91	744544	10.0	9.80	
159 Benzo[g,h,i]perylene	276	19.222	19.222	0.000	98	736113	10.0	9.92	
S 197 Methyl Phenols,Total	108				0		20.0	20.6	
S 199 Total Cresols	108				0		20.0	20.6	

Reagents:

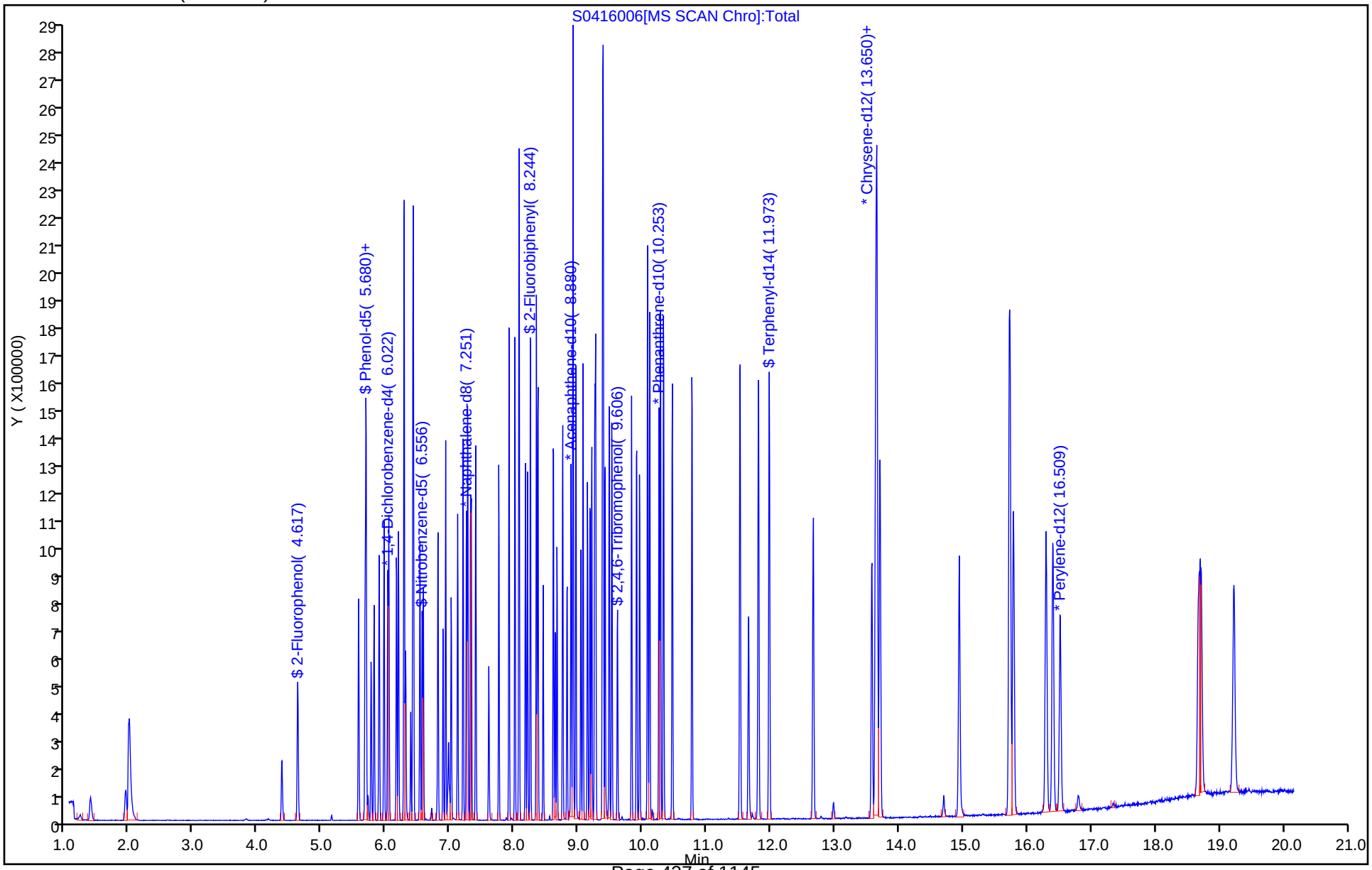
SVTAPSTD10i_00264 Amount Added: 1.00 Units: mL

Report Date: 17-Apr-2018 09:50:15 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416006.D				
Injection Date:	16-Apr-2018 11:01:30	Instrument ID:	CH71	Operator ID:	001562
Lims ID:	ICIS R10			Worklist Smp#:	6
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416007.D
Lims ID: IC R20
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 16-Apr-2018 11:29:30 ALS Bottle#: 6 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0021340-007
Misc. Info.: IC R20
Operator ID: 001562 Instrument ID: CH71
Sublist: chrom-BNA_CH71*sub9

Method: \\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\BNA_CH71.m
Limit Group: BNA 8270D ICAL
Last Update: 17-Apr-2018 09:50:21 Calib Date: 16-Apr-2018 17:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416021.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: fergusond Date: 16-Apr-2018 12:22:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.028	6.022	0.006	97	138637	8.00	8.00	
* 2 Naphthalene-d8	136	7.246	7.251	-0.005	100	524270	8.00	8.00	
* 3 Acenaphthene-d10	164	8.870	8.880	-0.010	96	283134	8.00	8.00	
* 4 Phenanthrene-d10	188	10.238	10.253	-0.015	97	614864	8.00	8.00	
* 5 Chrysene-d12	240	13.598	13.650	-0.052	98	673383	8.00	8.00	
* 6 Perylene-d12	264	16.434	16.514	-0.080	99	583696	8.00	8.00	
$ 7 2-Fluorophenol	112	4.628	4.617	0.011	91	446489	20.0	20.5	
$ 8 Phenol-d5	99	5.675	5.669	0.006	98	571670	20.0	20.7	
$ 9 Nitrobenzene-d5	82	6.562	6.556	0.006	89	508748	20.0	21.2	
$ 10 2-Fluorobiphenyl	172	8.240	8.250	-0.010	99	1175719	20.0	20.1	
$ 11 2,4,6-Tribromophenol	330	9.596	9.606	-0.010	93	167882	20.0	20.4	
$ 12 Terphenyl-d14	244	11.942	11.973	-0.031	99	1491512	20.0	20.7	
13 1,4-Dioxane	88	1.391	1.385	0.006	93	158223	20.0	20.3	
14 N-Nitrosodimethylamine	74	1.952	1.935	0.017	95	225701	20.0	20.7	
15 Pyridine	79	2.000	1.989	0.011	98	829196	40.0	41.2	
21 Methyl methanesulfonate	80	4.383	4.371	0.012	87	248538	20.0	20.3	
25 Benzaldehyde	77	5.574	5.568	0.006	95	369944	20.0	22.5	
27 Aniline	93	5.691	5.685	0.006	98	730966	20.0	21.0	
26 Phenol	94	5.686	5.680	0.006	97	639316	20.0	20.4	
29 Bis(2-chloroethyl)ether	93	5.766	5.760	0.006	99	465462	20.0	20.1	
30 2-Chlorophenol	128	5.814	5.808	0.006	96	482749	20.0	20.6	
31 n-Decane	43	5.889	5.888	0.001	87	390797	20.0	20.5	
32 1,3-Dichlorobenzene	146	5.969	5.963	0.006	97	544510	20.0	19.4	
33 1,4-Dichlorobenzene	146	6.044	6.038	0.006	93	548918	20.0	19.7	
34 Benzyl alcohol	108	6.161	6.155	0.006	92	318440	20.0	21.0	
35 1,2-Dichlorobenzene	146	6.194	6.188	0.006	96	522608	20.0	19.6	
37 Indene	116	6.279	6.278	0.001	90	834608	20.0	20.3	
36 2-Methylphenol	108	6.279	6.278	0.001	72	438537	20.0	20.3	
38 2,2'-oxybis[1-chloropropan	45	6.300	6.300	0.000	91	510332	20.0	19.9	
39 N-Nitrosopyrrolidine	100	6.386	6.380	0.006	93	208272	20.0	21.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
40 Acetophenone	105	6.418	6.412	0.006	97	691958	20.0	20.6	
41 N-Nitrosodi-n-propylamine	70	6.418	6.417	0.001	85	308948	20.0	20.7	
42 4-Methylphenol	108	6.429	6.423	0.006	91	464376	20.0	20.5	
45 Hexachloroethane	117	6.525	6.524	0.001	90	220558	20.0	20.5	
46 Nitrobenzene	77	6.578	6.577	0.001	88	521313	20.0	21.0	
48 Isophorone	82	6.803	6.807	-0.004	99	932963	20.0	20.9	
49 2-Nitrophenol	139	6.883	6.882	0.001	98	244856	20.0	21.6	
50 2,4-Dimethylphenol	107	6.925	6.925	0.000	97	519637	20.0	20.4	
52 Benzoic acid	122	6.984	6.973	0.011	87	213892	20.0	18.7	
53 Bis(2-chloroethoxy)methane	93	7.011	7.010	0.001	99	556513	20.0	19.6	
54 2,4-Dichlorophenol	162	7.112	7.112	0.000	95	437847	20.0	20.5	
56 1,2,4-Trichlorobenzene	180	7.193	7.197	-0.005	93	510005	20.0	19.7	
58 Naphthalene	128	7.267	7.267	0.000	97	1384647	20.0	19.5	
59 4-Chloroaniline	127	7.310	7.315	-0.005	95	580059	20.0	20.5	
60 2,6-Dichlorophenol	162	7.326	7.325	0.001	96	429511	20.0	20.4	
62 Hexachlorobutadiene	225	7.390	7.395	-0.005	94	363425	20.0	20.1	
64 Caprolactam	113	7.604	7.598	0.006	79	140456	20.0	20.7	
67 4-Chloro-3-methylphenol	107	7.753	7.753	0.000	94	447876	20.0	20.6	
69 2-Methylnaphthalene	142	7.908	7.913	-0.005	91	920020	20.0	19.6	
71 1-Methylnaphthalene	142	7.999	8.004	-0.005	91	858411	20.0	19.7	
72 Hexachlorocyclopentadiene	237	8.063	8.068	-0.005	95	418643	20.0	21.6	
73 1,2,4,5-Tetrachlorobenzene	216	8.069	8.073	-0.004	96	591883	20.0	20.0	
74 2,4,6-Trichlorophenol	196	8.165	8.169	-0.004	91	380626	20.0	21.3	
75 2,4,5-Trichlorophenol	196	8.197	8.201	-0.004	94	398525	20.0	20.8	
76 1,1'-Biphenyl	154	8.336	8.340	-0.004	95	1115233	20.0	19.9	
77 2-Chloronaphthalene	162	8.357	8.367	-0.010	96	920459	20.0	20.0	
79 2-Nitroaniline	65	8.437	8.447	-0.010	77	293324	20.0	22.1	
82 Dimethyl phthalate	163	8.597	8.607	-0.010	98	1141463	20.0	20.9	
83 1,3-Dinitrobenzene	168	8.624	8.634	-0.010	85	164598	20.0	20.1	
84 2,6-Dinitrotoluene	165	8.656	8.661	-0.005	91	239486	20.0	21.5	
85 Acenaphthylene	152	8.742	8.752	-0.010	98	1315146	20.0	20.8	
86 3-Nitroaniline	138	8.811	8.821	-0.010	90	246331	20.0	21.4	
88 Acenaphthene	153	8.902	8.912	-0.010	93	865643	20.0	20.2	
87 2,4-Dinitrophenol	184	8.907	8.912	-0.005	85	349894	40.0	37.6	
89 4-Nitrophenol	109	8.950	8.955	-0.005	90	455296	40.0	42.7	
91 2,4-Dinitrotoluene	165	9.025	9.035	-0.010	90	326381	20.0	21.2	
93 Dibenzofuran	168	9.057	9.067	-0.010	95	1301615	20.0	20.3	
95 2,3,5,6-Tetrachlorophenol	232	9.126	9.136	-0.010	93	345376	20.0	21.0	
96 2,3,4,6-Tetrachlorophenol	232	9.169	9.179	-0.010	71	348902	20.0	20.9	
97 2-Naphthylamine	143	9.196	9.206	-0.010	93	844692	20.0	21.6	
98 Diethyl phthalate	149	9.244	9.254	-0.010	98	1082607	20.0	20.6	
99 Hexadecane	57	9.255	9.265	-0.010	94	620562	20.0	20.6	
100 4-Chlorophenyl phenyl ethe	204	9.361	9.371	-0.010	92	619565	20.0	19.9	
101 4-Nitroaniline	138	9.372	9.377	-0.005	80	259920	20.0	21.3	
103 Fluorene	166	9.372	9.382	-0.010	94	1048906	20.0	20.2	
104 4,6-Dinitro-2-methylphenol	198	9.404	9.414	-0.010	87	435514	40.0	38.8	
105 N-Nitrosodiphenylamine	169	9.463	9.478	-0.015	98	824664	20.0	20.4	
90 1,2-Diphenylhydrazine	77	9.506	9.516	-0.010	99	1137425	20.0	21.0	
57 Azobenzene	77	9.506	9.516	-0.010	99	1137425	20.0	21.0	
110 4-Bromophenyl phenyl ether	248	9.810	9.826	-0.016	65	373454	20.0	19.6	
112 Hexachlorobenzene	284	9.890	9.906	-0.016	93	391225	20.0	19.6	
113 Atrazine	200	9.938	9.948	-0.010	94	379047	20.0	17.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
116 Pentachlorophenol	266	10.061	10.077	-0.016	92	561312	40.0	39.5	
115 n-Octadecane	57	10.088	10.109	-0.021	94	695307	20.0	21.7	
121 Phenanthrene	178	10.259	10.274	-0.015	97	1601923	20.0	19.6	
122 Anthracene	178	10.307	10.322	-0.015	96	1695092	20.0	20.7	
124 Carbazole	167	10.446	10.461	-0.015	97	1458768	20.0	20.3	
126 Di-n-butyl phthalate	149	10.745	10.766	-0.021	100	1817200	20.0	21.1	
131 Fluoranthene	202	11.493	11.519	-0.026	96	2070134	20.0	20.8	
132 Benzidine	184	11.621	11.653	-0.031	0	1031141	20.0	22.6	
133 Pyrene	202	11.776	11.807	-0.031	99	2073583	20.0	20.6	
138 Butyl benzyl phthalate	149	12.620	12.662	-0.042	98	837190	20.0	21.8	
144 3,3'-Dichlorobenzidine	252	13.518	13.576	-0.058	74	736910	20.0	19.5	
146 Benzo[a]anthracene	228	13.582	13.634	-0.052	97	2068719	20.0	20.6	
145 Bis(2-ethylhexyl) phthalat	149	13.592	13.650	-0.058	97	1149873	20.0	21.7	
147 Chrysene	228	13.651	13.704	-0.053	96	1855091	20.0	19.7	
150 Di-n-octyl phthalate	149	14.864	14.938	-0.074	100	1907318	20.0	19.8	
151 7,12-Dimethylbenz(a)anthra	256	15.649	15.718	-0.069	89	959186	20.0	20.2	
152 Benzo[b]fluoranthene	252	15.660	15.729	-0.069	95	2152928	20.0	20.6	
153 Benzo[k]fluoranthene	252	15.713	15.782	-0.069	97	1920335	20.0	20.3	
219 Benzo[e]pyrene	252	16.215	16.289	-0.074	95	1829129	20.0	20.4	
154 Benzo[a]pyrene	252	16.322	16.396	-0.074	78	1796946	20.0	20.5	
157 Indeno[1,2,3-cd]pyrene	276	18.571	18.677	-0.106	98	2035989	20.0	20.3	
158 Dibenz(a,h)anthracene	278	18.609	18.715	-0.106	86	1713711	20.0	20.2	
159 Benzo[g,h,i]perylene	276	19.116	19.222	-0.106	98	1677300	20.0	20.2	
S 199 Total Cresols	108				0		40.0	40.8	
S 197 Methyl Phenols,Total	108				0		40.0	40.8	

Reagents:

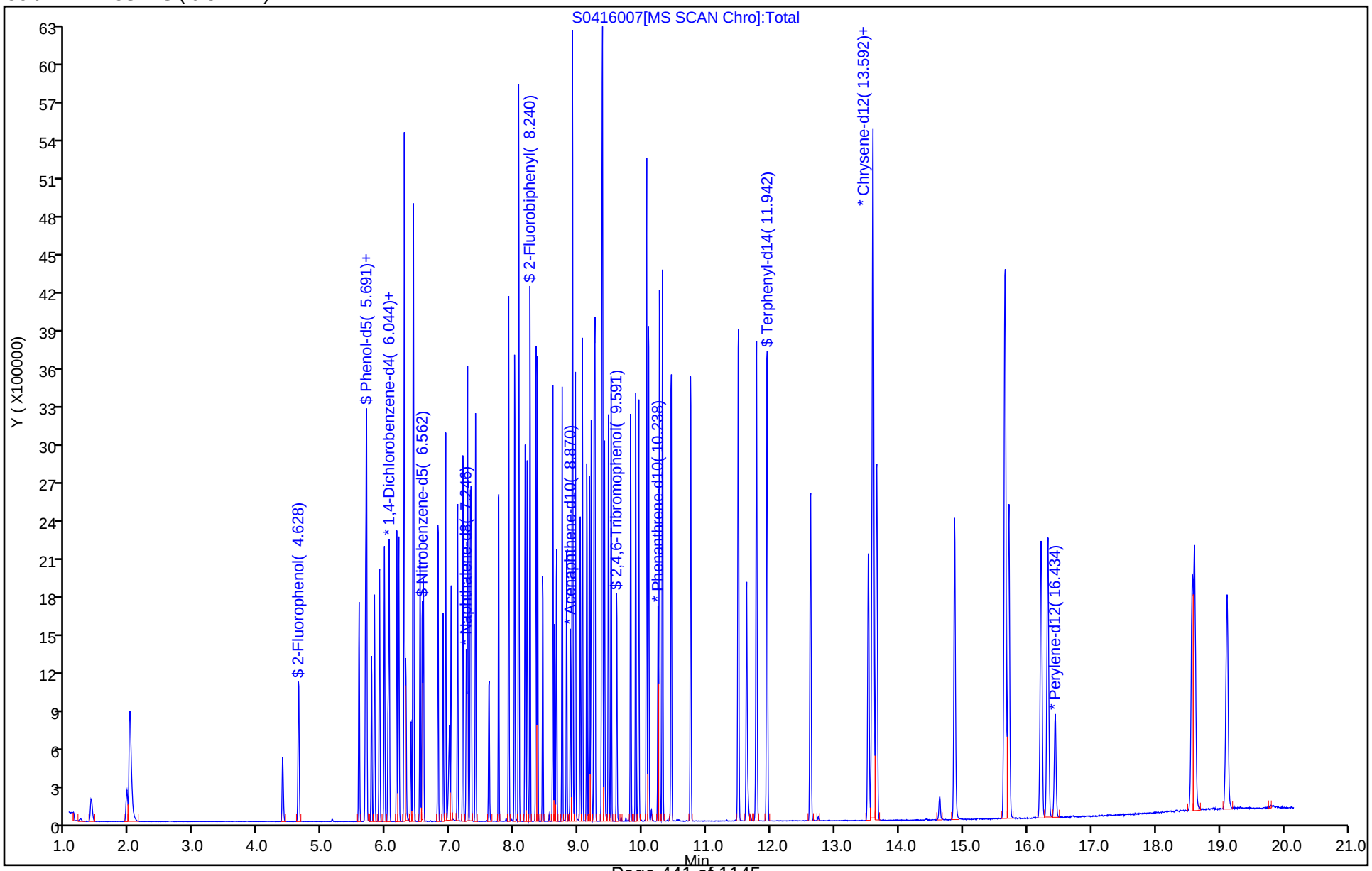
SVTAPSTD20i_00014 Amount Added: 1.00 Units: mL

Report Date: 17-Apr-2018 09:50:23 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416007.D				
Injection Date:	16-Apr-2018 11:29:30	Instrument ID:	CH71	Operator ID:	001562
Lims ID:	IC R20			Worklist Smp#:	7
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416008.D
Lims ID: IC R40
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 16-Apr-2018 11:57:30 ALS Bottle#: 7 Worklist Smp#: 8
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0021340-008
Misc. Info.: IC R40
Operator ID: 001562 Instrument ID: CH71
Sublist: chrom-BNA_CH71*sub9

Method: \\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\BNA_CH71.m
Limit Group: BNA 8270D ICAL
Last Update: 17-Apr-2018 09:50:28 Calib Date: 16-Apr-2018 17:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416021.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: fergusond Date: 16-Apr-2018 12:36:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.023	6.022	0.001	97	133734	8.00	8.00	
* 2 Naphthalene-d8	136	7.246	7.251	-0.005	100	504588	8.00	8.00	
* 3 Acenaphthene-d10	164	8.870	8.880	-0.010	94	278198	8.00	8.00	
* 4 Phenanthrene-d10	188	10.233	10.253	-0.020	96	610070	8.00	8.00	
* 5 Chrysene-d12	240	13.593	13.650	-0.057	99	677680	8.00	8.00	
* 6 Perylene-d12	264	16.424	16.514	-0.090	99	566900	8.00	8.00	
$ 7 2-Fluorophenol	112	4.629	4.617	0.012	91	875592	40.0	41.6	
$ 8 Phenol-d5	99	5.676	5.669	0.007	98	1101225	40.0	41.3	
$ 9 Nitrobenzene-d5	82	6.557	6.556	0.001	89	1003031	40.0	43.4	
$ 10 2-Fluorobiphenyl	172	8.240	8.250	-0.010	99	2305197	40.0	40.0	
$ 11 2,4,6-Tribromophenol	330	9.592	9.606	-0.014	92	344670	40.0	42.2	
$ 12 Terphenyl-d14	244	11.932	11.973	-0.041	99	3024605	40.0	41.7	
13 1,4-Dioxane	88	1.397	1.385	0.012	92	303587	40.0	40.4	
14 N-Nitrosodimethylamine	74	1.958	1.935	0.023	94	436345	40.0	41.5	
15 Pyridine	79	2.006	1.989	0.017	98	1565100	80.0	80.6	
21 Methyl methanesulfonate	80	4.383	4.371	0.012	87	468337	40.0	39.6	
25 Benzaldehyde	77	5.574	5.568	0.006	94	653881	40.0	41.3	
26 Phenol	94	5.687	5.680	0.007	96	1227460	40.0	40.5	
27 Aniline	93	5.692	5.685	0.007	98	1384893	40.0	41.2	
29 Bis(2-chloroethyl)ether	93	5.767	5.760	0.007	100	882443	40.0	39.4	
30 2-Chlorophenol	128	5.815	5.808	0.007	96	930354	40.0	41.1	
31 n-Decane	43	5.890	5.888	0.002	86	717675	40.0	39.0	
32 1,3-Dichlorobenzene	146	5.970	5.963	0.007	97	1049125	40.0	38.8	
33 1,4-Dichlorobenzene	146	6.044	6.038	0.006	94	1056773	40.0	39.3	
34 Benzyl alcohol	108	6.162	6.155	0.007	92	614280	40.0	42.0	
35 1,2-Dichlorobenzene	146	6.194	6.188	0.006	96	991859	40.0	38.6	
36 2-Methylphenol	108	6.280	6.278	0.002	94	839725	40.0	40.2	
37 Indene	116	6.280	6.278	0.002	90	1591931	40.0	40.2	
38 2,2'-oxybis[1-chloropropan	45	6.301	6.300	0.001	90	943866	40.0	38.2	
39 N-Nitrosopyrrolidine	100	6.386	6.380	0.006	95	412464	40.0	43.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
40 Acetophenone	105	6.413	6.412	0.001	98	1300166	40.0	40.1	
41 N-Nitrosodi-n-propylamine	70	6.418	6.417	0.001	81	579458	40.0	40.3	
42 4-Methylphenol	108	6.424	6.423	0.001	95	882028	40.0	40.4	
45 Hexachloroethane	117	6.525	6.524	0.001	90	427540	40.0	41.1	
46 Nitrobenzene	77	6.579	6.577	0.002	87	989568	40.0	41.5	
48 Isophorone	82	6.803	6.807	-0.004	99	1812392	40.0	42.3	
49 2-Nitrophenol	139	6.883	6.882	0.001	98	483505	40.0	44.3	
50 2,4-Dimethylphenol	107	6.926	6.925	0.001	98	991174	40.0	40.4	
52 Benzoic acid	122	7.001	6.973	0.028	88	476504	40.0	43.3	
53 Bis(2-chloroethoxy)methane	93	7.006	7.010	-0.004	99	1083491	40.0	39.7	
54 2,4-Dichlorophenol	162	7.108	7.112	-0.004	94	858148	40.0	41.7	
56 1,2,4-Trichlorobenzene	180	7.193	7.197	-0.004	93	978331	40.0	39.2	
58 Naphthalene	128	7.268	7.267	0.001	97	2702044	40.0	39.5	
59 4-Chloroaniline	127	7.311	7.315	-0.004	96	1156289	40.0	42.6	
60 2,6-Dichlorophenol	162	7.321	7.325	-0.004	97	816331	40.0	40.4	
62 Hexachlorobutadiene	225	7.391	7.395	-0.004	93	714196	40.0	41.0	
64 Caprolactam	113	7.610	7.598	0.012	80	289109	40.0	44.4	
67 4-Chloro-3-methylphenol	107	7.749	7.753	-0.004	95	872668	40.0	41.6	
69 2-Methylnaphthalene	142	7.909	7.913	-0.004	92	1824963	40.0	40.4	
71 1-Methylnaphthalene	142	8.000	8.004	-0.004	93	1692635	40.0	40.3	
72 Hexachlorocyclopentadiene	237	8.058	8.068	-0.010	95	857518	40.0	45.0	
73 1,2,4,5-Tetrachlorobenzene	216	8.064	8.073	-0.009	96	1151500	40.0	39.7	
74 2,4,6-Trichlorophenol	196	8.160	8.169	-0.009	93	743336	40.0	42.4	
75 2,4,5-Trichlorophenol	196	8.197	8.201	-0.004	94	785646	40.0	41.7	
76 1,1'-Biphenyl	154	8.331	8.340	-0.009	94	2188959	40.0	39.8	
77 2-Chloronaphthalene	162	8.358	8.367	-0.009	97	1824744	40.0	40.3	
79 2-Nitroaniline	65	8.438	8.447	-0.009	78	579820	40.0	44.4	
82 Dimethyl phthalate	163	8.598	8.607	-0.009	99	2222541	40.0	41.3	
83 1,3-Dinitrobenzene	168	8.625	8.634	-0.009	86	334833	40.0	40.6	
84 2,6-Dinitrotoluene	165	8.651	8.661	-0.010	93	475512	40.0	43.4	
85 Acenaphthylene	152	8.742	8.752	-0.010	98	2596284	40.0	41.9	
86 3-Nitroaniline	138	8.812	8.821	-0.009	92	487508	40.0	43.1	
87 2,4-Dinitrophenol	184	8.903	8.912	-0.009	87	774793	80.0	82.7	
88 Acenaphthene	153	8.897	8.912	-0.015	90	1725851	40.0	41.0	
89 4-Nitrophenol	109	8.951	8.955	-0.004	91	874486	80.0	83.5	
91 2,4-Dinitrotoluene	165	9.020	9.035	-0.015	91	655750	40.0	43.3	
93 Dibenzofuran	168	9.057	9.067	-0.010	95	2526728	40.0	40.2	
95 2,3,5,6-Tetrachlorophenol	232	9.122	9.136	-0.014	92	702100	40.0	43.5	
96 2,3,4,6-Tetrachlorophenol	232	9.164	9.179	-0.015	71	685733	40.0	41.8	
97 2-Naphthylamine	143	9.191	9.206	-0.015	94	1640320	40.0	42.7	
98 Diethyl phthalate	149	9.239	9.254	-0.015	98	2136556	40.0	41.4	
99 Hexadecane	57	9.250	9.265	-0.015	94	1152456	40.0	39.8	
100 4-Chlorophenyl phenyl ethe	204	9.357	9.371	-0.014	90	1269074	40.0	41.5	
101 4-Nitroaniline	138	9.373	9.377	-0.004	78	521872	40.0	43.4	
103 Fluorene	166	9.367	9.382	-0.015	97	2075020	40.0	40.7	
104 4,6-Dinitro-2-methylphenol	198	9.399	9.414	-0.015	88	904745	80.0	79.3	
105 N-Nitrosodiphenylamine	169	9.463	9.478	-0.015	97	1608462	40.0	40.1	
57 Azobenzene	77	9.501	9.516	-0.015	99	2182884	40.0	40.5	
90 1,2-Diphenylhydrazine	77	9.501	9.516	-0.015	100	2182884	40.0	40.7	
110 4-Bromophenyl phenyl ether	248	9.805	9.826	-0.021	64	752677	40.0	39.9	
112 Hexachlorobenzene	284	9.885	9.906	-0.021	94	786396	40.0	39.8	
113 Atrazine	200	9.934	9.948	-0.014	95	842399	40.0	39.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
116 Pentachlorophenol	266	10.056	10.077	-0.021	93	1156761	80.0	82.0	
115 n-Octadecane	57	10.088	10.109	-0.021	95	1284918	40.0	41.6	
121 Phenanthrene	178	10.259	10.274	-0.015	97	3235277	40.0	39.8	
122 Anthracene	178	10.302	10.322	-0.020	97	3330266	40.0	40.9	
124 Carbazole	167	10.441	10.461	-0.020	96	2942347	40.0	41.3	
126 Di-n-butyl phthalate	149	10.740	10.766	-0.026	100	3706691	40.0	43.5	
131 Fluoranthene	202	11.483	11.519	-0.036	96	4177745	40.0	42.3	
132 Benzidine	184	11.611	11.653	-0.041	0	1984670	40.0	42.5	
133 Pyrene	202	11.771	11.807	-0.036	99	4202540	40.0	41.6	
138 Butyl benzyl phthalate	149	12.610	12.662	-0.052	98	1698549	40.0	44.0	
144 3,3'-Dichlorobenzidine	252	13.518	13.576	-0.058	73	1586788	40.0	40.9	
146 Benzo[a]anthracene	228	13.577	13.634	-0.057	97	4229950	40.0	41.8	
145 Bis(2-ethylhexyl) phthalat	149	13.588	13.650	-0.062	97	2316543	40.0	43.4	
147 Chrysene	228	13.646	13.704	-0.058	95	3799335	40.0	40.0	
150 Di-n-octyl phthalate	149	14.859	14.938	-0.079	100	4015095	40.0	41.8	
151 7,12-Dimethylbenz(a)anthra	256	15.650	15.718	-0.068	91	2041649	40.0	44.3	
152 Benzo[b]fluoranthene	252	15.655	15.729	-0.074	95	4334946	40.0	42.7	
153 Benzo[k]fluoranthene	252	15.708	15.782	-0.074	97	4022088	40.0	43.9	
219 Benzo[e]pyrene	252	16.211	16.289	-0.078	94	3845734	40.0	44.1	
154 Benzo[a]pyrene	252	16.317	16.396	-0.079	77	3727278	40.0	43.8	
157 Indeno[1,2,3-cd]pyrene	276	18.566	18.677	-0.111	97	4240007	40.0	43.5	
158 Dibenz(a,h)anthracene	278	18.609	18.715	-0.106	86	3562243	40.0	43.2	
159 Benzo[g,h,i]perylene	276	19.111	19.222	-0.111	97	3425537	40.0	42.6	
S 197 Methyl Phenols,Total	108				0		80.0	80.6	
S 199 Total Cresols	108				0		80.0	80.6	

Reagents:

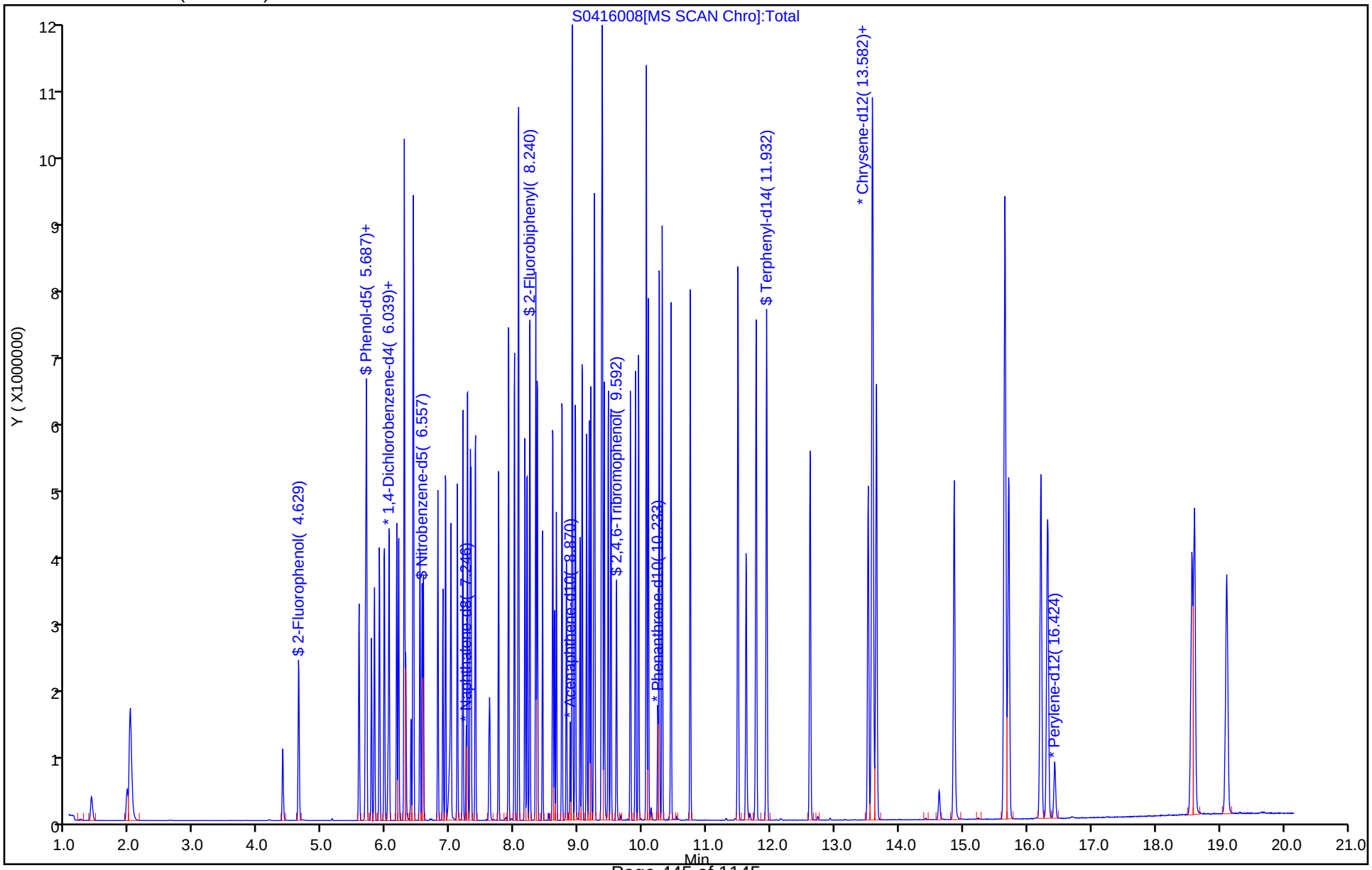
SVTAPSTD40i_00014 Amount Added: 1.00 Units: mL

Report Date: 17-Apr-2018 09:50:30 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416008.D				
Injection Date:	16-Apr-2018 11:57:30	Instrument ID:	CH71	Operator ID:	001562
Lims ID:	IC R40			Worklist Smp#:	8
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416009.D
Lims ID: IC R60
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 16-Apr-2018 12:25:30 ALS Bottle#: 8 Worklist Smp#: 9
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0021340-009
Misc. Info.: IC R60
Operator ID: 001562 Instrument ID: CH71
Sublist: chrom-BNA_CH71*sub9

Method: \\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\BNA_CH71.m
Limit Group: BNA 8270D ICAL
Last Update: 17-Apr-2018 09:50:35 Calib Date: 16-Apr-2018 17:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416021.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: fergusond Date: 16-Apr-2018 13:11:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.017	6.022	-0.005	96	139323	8.00	8.00	
* 2 Naphthalene-d8	136	7.235	7.251	-0.016	99	517557	8.00	8.00	
* 3 Acenaphthene-d10	164	8.859	8.880	-0.021	96	284753	8.00	8.00	
* 4 Phenanthrene-d10	188	10.222	10.253	-0.031	96	618525	8.00	8.00	
* 5 Chrysene-d12	240	13.582	13.650	-0.068	98	706038	8.00	8.00	
* 6 Perylene-d12	264	16.402	16.514	-0.112	100	587552	8.00	8.00	
$ 7 2-Fluorophenol	112	4.628	4.617	0.011	90	1318881	60.0	60.1	
$ 8 Phenol-d5	99	5.670	5.669	0.001	99	1647460	60.0	59.3	
$ 9 Nitrobenzene-d5	82	6.552	6.556	-0.004	88	1493300	60.0	63.0	
$ 10 2-Fluorobiphenyl	172	8.229	8.250	-0.021	99	3594599	60.0	61.0	
$ 11 2,4,6-Tribromophenol	330	9.581	9.606	-0.025	93	559749	60.0	67.6	
$ 12 Terphenyl-d14	244	11.920	11.973	-0.053	99	4883224	60.0	64.6	
13 1,4-Dioxane	88	1.396	1.385	0.011	92	462153	60.0	59.0	
14 N-Nitrosodimethylamine	74	1.952	1.935	0.017	95	663643	60.0	60.6	
15 Pyridine	79	2.000	1.989	0.011	98	2316239	120.0	114.5	
21 Methyl methanesulfonate	80	4.377	4.371	0.006	87	676963	60.0	54.9	
25 Benzaldehyde	77	5.569	5.568	0.001	94	927916	60.0	56.2	
26 Phenol	94	5.681	5.680	0.001	93	1784515	60.0	56.5	
27 Aniline	93	5.686	5.685	0.001	80	1980029	60.0	56.5	
29 Bis(2-chloroethyl)ether	93	5.761	5.760	0.001	100	1339607	60.0	57.5	
30 2-Chlorophenol	128	5.809	5.808	0.001	96	1394121	60.0	59.1	
31 n-Decane	43	5.884	5.888	-0.004	86	1064384	60.0	55.5	
32 1,3-Dichlorobenzene	146	5.959	5.963	-0.004	97	1574651	60.0	55.9	
33 1,4-Dichlorobenzene	146	6.033	6.038	-0.005	93	1588810	60.0	56.7	
34 Benzyl alcohol	108	6.156	6.155	0.001	93	941398	60.0	61.8	
35 1,2-Dichlorobenzene	146	6.183	6.188	-0.005	96	1496430	60.0	55.9	
37 Indene	116	6.274	6.278	-0.004	90	2390956	60.0	57.9	
36 2-Methylphenol	108	6.279	6.278	0.001	95	1234924	60.0	56.8	
38 2,2'-oxybis[1-chloropropan	45	6.295	6.300	-0.005	91	1403926	60.0	54.5	
39 N-Nitrosopyrrolidine	100	6.381	6.380	0.001	94	626821	60.0	63.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
40 Acetophenone	105	6.407	6.412	-0.005	97	1927628	60.0	57.1	
41 N-Nitrosodi-n-propylamine	70	6.413	6.417	-0.004	82	840007	60.0	56.1	
42 4-Methylphenol	108	6.418	6.423	-0.005	94	1318761	60.0	58.0	
45 Hexachloroethane	117	6.514	6.524	-0.010	90	643750	60.0	59.4	
46 Nitrobenzene	77	6.573	6.577	-0.004	87	1497484	60.0	61.2	
48 Isophorone	82	6.797	6.807	-0.010	99	2710584	60.0	61.6	
49 2-Nitrophenol	139	6.877	6.882	-0.005	98	757302	60.0	67.6	
50 2,4-Dimethylphenol	107	6.915	6.925	-0.010	96	1506269	60.0	59.9	
52 Benzoic acid	122	7.006	6.973	0.033	89	820149	60.0	72.6	a
53 Bis(2-chloroethoxy)methane	93	7.000	7.010	-0.010	98	1607109	60.0	57.5	
54 2,4-Dichlorophenol	162	7.102	7.112	-0.010	93	1295262	60.0	61.4	
56 1,2,4-Trichlorobenzene	180	7.182	7.197	-0.015	93	1461577	60.0	57.1	
58 Naphthalene	128	7.257	7.267	-0.010	97	4143887	60.0	59.1	
59 4-Chloroaniline	127	7.299	7.315	-0.016	97	1729119	60.0	62.0	
60 2,6-Dichlorophenol	162	7.316	7.325	-0.009	98	1256784	60.0	60.6	
62 Hexachlorobutadiene	225	7.380	7.395	-0.015	93	1076043	60.0	60.2	
64 Caprolactam	113	7.609	7.598	0.011	81	449217	60.0	67.2	
67 4-Chloro-3-methylphenol	107	7.743	7.753	-0.010	95	1349484	60.0	62.8	
69 2-Methylnaphthalene	142	7.898	7.913	-0.015	92	2858254	60.0	61.7	
71 1-Methylnaphthalene	142	7.989	8.004	-0.015	93	2650529	60.0	61.6	
72 Hexachlorocyclopentadiene	237	8.047	8.068	-0.021	95	1299250	60.0	66.6	
73 1,2,4,5-Tetrachlorobenzene	216	8.053	8.073	-0.020	95	1771824	60.0	59.7	
74 2,4,6-Trichlorophenol	196	8.154	8.169	-0.015	90	1158124	60.0	64.5	
75 2,4,5-Trichlorophenol	196	8.186	8.201	-0.015	94	1211972	60.0	62.9	
76 1,1'-Biphenyl	154	8.320	8.340	-0.020	94	3444280	60.0	61.2	
77 2-Chloronaphthalene	162	8.347	8.367	-0.020	95	2799636	60.0	60.4	
79 2-Nitroaniline	65	8.427	8.447	-0.020	79	876576	60.0	65.6	
82 Dimethyl phthalate	163	8.587	8.607	-0.020	99	3433083	60.0	62.4	
83 1,3-Dinitrobenzene	168	8.614	8.634	-0.020	87	516917	60.0	60.7	
84 2,6-Dinitrotoluene	165	8.646	8.661	-0.015	94	730440	60.0	65.1	
85 Acenaphthylene	152	8.731	8.752	-0.021	98	4041146	60.0	63.7	
86 3-Nitroaniline	138	8.801	8.821	-0.020	91	753920	60.0	65.1	
88 Acenaphthene	153	8.891	8.912	-0.021	88	2634749	60.0	61.1	
87 2,4-Dinitrophenol	184	8.897	8.912	-0.015	86	1251963	120.0	129.6	
89 4-Nitrophenol	109	8.945	8.955	-0.010	91	1329189	120.0	123.9	
91 2,4-Dinitrotoluene	165	9.014	9.035	-0.021	91	1014287	60.0	65.5	
93 Dibenzofuran	168	9.046	9.067	-0.021	96	3938173	60.0	61.2	
95 2,3,5,6-Tetrachlorophenol	232	9.116	9.136	-0.020	91	1107974	60.0	67.1	
96 2,3,4,6-Tetrachlorophenol	232	9.153	9.179	-0.026	71	1088838	60.0	64.8	
97 2-Naphthylamine	143	9.185	9.206	-0.021	94	2424571	60.0	61.7	
98 Diethyl phthalate	149	9.233	9.254	-0.021	98	3294843	60.0	62.3	
99 Hexadecane	57	9.239	9.265	-0.026	93	1656039	60.0	55.7	
100 4-Chlorophenyl phenyl ethe	204	9.346	9.371	-0.025	89	1974620	60.0	63.0	
101 4-Nitroaniline	138	9.367	9.377	-0.010	78	814104	60.0	66.2	
103 Fluorene	166	9.362	9.382	-0.020	96	3285479	60.0	63.0	
104 4,6-Dinitro-2-methylphenol	198	9.394	9.414	-0.020	91	1446810	120.0	124.0	
105 N-Nitrosodiphenylamine	169	9.452	9.478	-0.026	97	2577535	60.0	63.4	
90 1,2-Diphenylhydrazine	77	9.495	9.516	-0.021	100	3252977	60.0	59.8	
57 Azobenzene	77	9.495	9.516	-0.021	98	3252977	60.0	59.6	
110 4-Bromophenyl phenyl ether	248	9.800	9.826	-0.026	63	1208511	60.0	63.2	
112 Hexachlorobenzene	284	9.874	9.906	-0.032	95	1272606	60.0	63.4	
113 Atrazine	200	9.928	9.948	-0.020	95	1418685	60.0	64.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
116 Pentachlorophenol	266	10.051	10.077	-0.026	94	1886987	120.0	131.9	
115 n-Octadecane	57	10.077	10.109	-0.032	96	1886655	60.0	58.6	
121 Phenanthrene	178	10.248	10.274	-0.026	96	5086310	60.0	61.8	
122 Anthracene	178	10.296	10.322	-0.026	96	5280233	60.0	64.0	
124 Carbazole	167	10.430	10.461	-0.031	96	4590659	60.0	63.6	
126 Di-n-butyl phthalate	149	10.734	10.766	-0.032	100	5725999	60.0	66.2	
131 Fluoranthene	202	11.472	11.519	-0.047	96	6556508	60.0	65.4	
132 Benzidine	184	11.600	11.653	-0.052	0	2724947	60.0	55.8	
133 Pyrene	202	11.755	11.807	-0.052	99	6594236	60.0	62.6	
138 Butyl benzyl phthalate	149	12.599	12.662	-0.063	98	2624152	60.0	65.2	
144 3,3'-Dichlorobenzidine	252	13.502	13.576	-0.074	73	2598434	60.0	63.9	
146 Benzo[a]anthracene	228	13.566	13.634	-0.068	96	6835094	60.0	64.8	
145 Bis(2-ethylhexyl) phthalat	149	13.571	13.650	-0.079	96	3649088	60.0	65.6	
147 Chrysene	228	13.625	13.704	-0.079	95	5956112	60.0	60.2	
150 Di-n-octyl phthalate	149	14.843	14.938	-0.095	100	6347320	60.0	63.2	
151 7,12-Dimethylbenz(a)anthra	256	15.628	15.718	-0.090	89	3269906	60.0	68.5	
152 Benzo[b]fluoranthene	252	15.639	15.729	-0.090	95	6995219	60.0	66.4	
153 Benzo[k]fluoranthene	252	15.697	15.782	-0.085	97	6274738	60.0	66.0	
219 Benzo[e]pyrene	252	16.189	16.289	-0.100	94	5974573	60.0	66.1	
154 Benzo[a]pyrene	252	16.296	16.396	-0.100	74	6094905	60.0	69.1	
157 Indeno[1,2,3-cd]pyrene	276	18.555	18.677	-0.122	97	6962403	60.0	68.9	
158 Dibenz(a,h)anthracene	278	18.587	18.715	-0.128	88	5971010	60.0	69.9	
159 Benzo[g,h,i]perylene	276	19.095	19.222	-0.127	96	5642615	60.0	67.7	
S 199 Total Cresols	108				0		120.0	114.8	
S 197 Methyl Phenols,Total	108				0		120.0	114.8	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

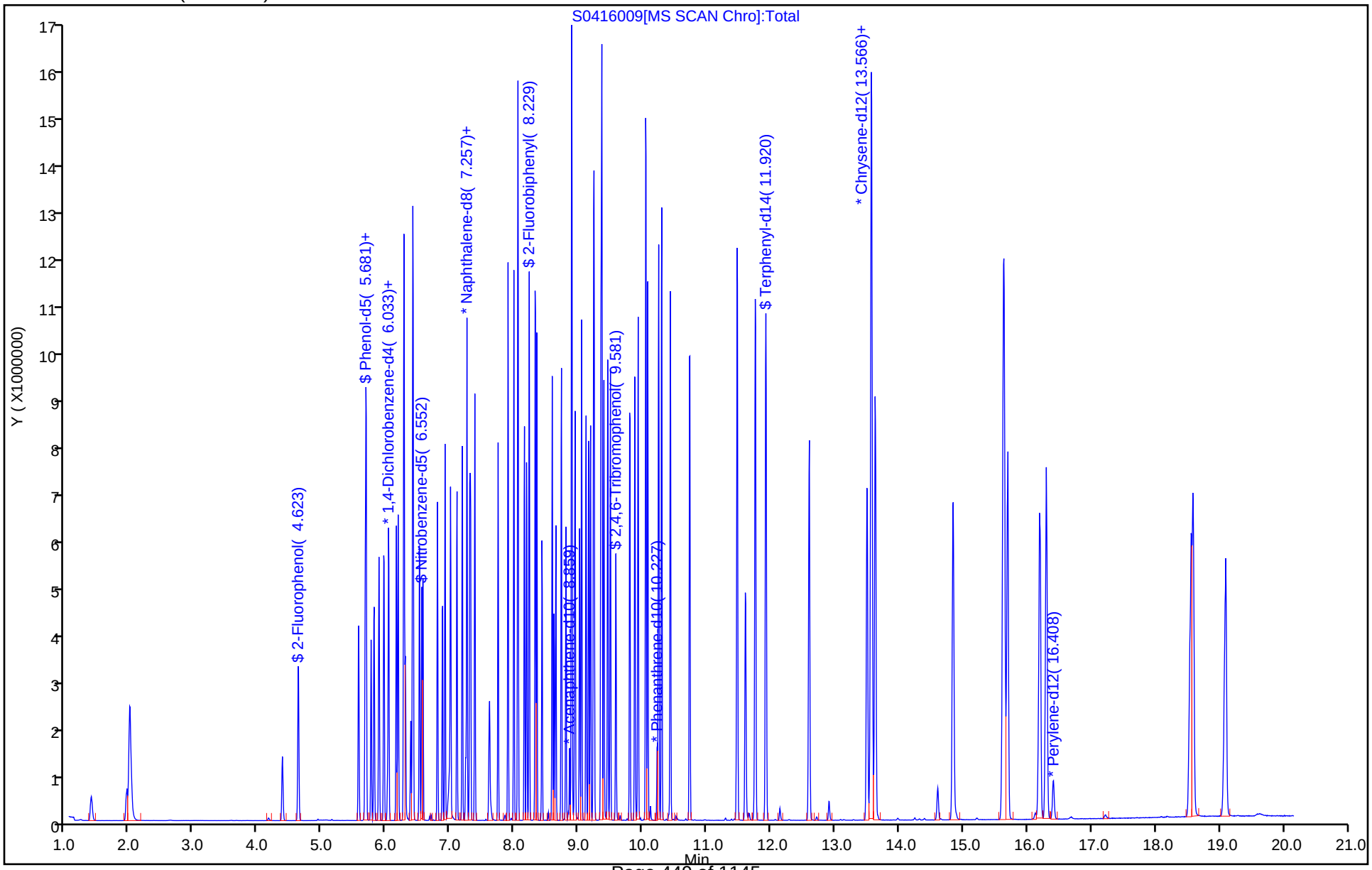
SVTAPSTD60i_00014 Amount Added: 1.00 Units: mL

Report Date: 17-Apr-2018 09:50:37 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416009.D				
Injection Date:	16-Apr-2018 12:25:30	Instrument ID:	CH71	Operator ID:	001562
Lims ID:	IC R60			Worklist Smp#:	9
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



Manual Integration/User Assign Peak Report

TestAmerica Pittsburgh

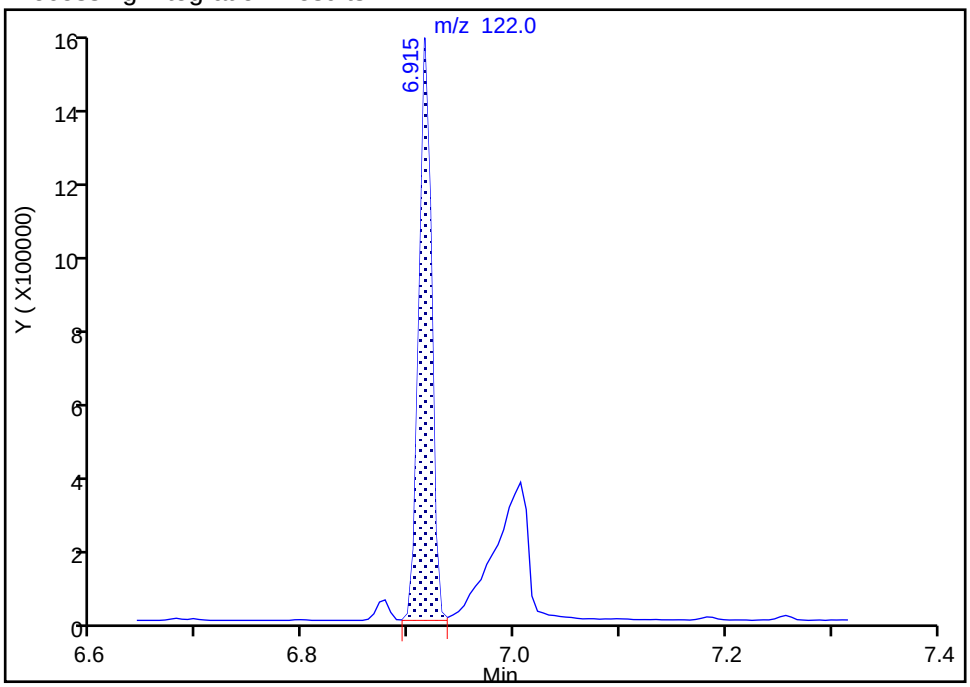
Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416009.D				
Injection Date:	16-Apr-2018 12:25:30	Instrument ID:	CH71		
Lims ID:	IC R60				
Client ID:					
Operator ID:	001562	ALS Bottle#:	8	Worklist Smp#:	9
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

52 Benzoic acid, CAS: 65-85-0

Signal: 1

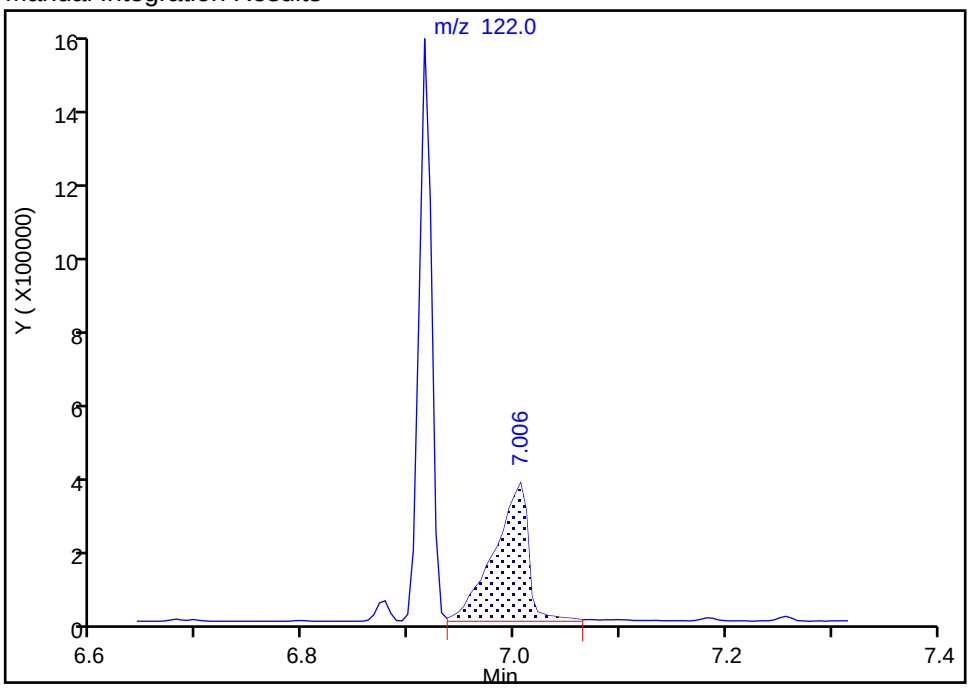
Processing Integration Results

RT: 6.91
Area: 1259446
Amount: 100.0063
Amount Units: ng



Manual Integration Results

RT: 7.01
Area: 820149
Amount: 72.601864
Amount Units: ng



Reviewer: fergusond, 16-Apr-2018 13:07:23

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416010.D
Lims ID: IC R80
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 16-Apr-2018 12:53:30 ALS Bottle#: 9 Worklist Smp#: 10
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0021340-010
Misc. Info.: IC R80
Operator ID: 001562 Instrument ID: CH71
Sublist: chrom-BNA_CH71*sub9

Method: \\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\BNA_CH71.m
Limit Group: BNA 8270D ICAL
Last Update: 17-Apr-2018 09:50:43 Calib Date: 16-Apr-2018 17:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416021.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: fergusond Date: 16-Apr-2018 14:26:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.011	6.022	-0.011	97	131296	8.00	8.00	
* 2 Naphthalene-d8	136	7.229	7.251	-0.022	100	493134	8.00	8.00	
* 3 Acenaphthene-d10	164	8.853	8.880	-0.027	95	280466	8.00	8.00	
* 4 Phenanthrene-d10	188	10.216	10.253	-0.037	97	600474	8.00	8.00	
* 5 Chrysene-d12	240	13.565	13.650	-0.085	98	695330	8.00	8.00	
* 6 Perylene-d12	264	16.396	16.514	-0.118	99	586930	8.00	8.00	
$ 7 2-Fluorophenol	112	4.622	4.617	0.005	90	1668584	80.0	80.7	
$ 8 Phenol-d5	99	5.664	5.669	-0.005	99	2087514	80.0	79.7	
$ 9 Nitrobenzene-d5	82	6.546	6.556	-0.010	89	1897314	80.0	84.0	
$ 10 2-Fluorobiphenyl	172	8.223	8.250	-0.027	99	4546769	80.0	78.3	
$ 11 2,4,6-Tribromophenol	330	9.575	9.606	-0.031	93	736411	80.0	91.5	
$ 12 Terphenyl-d14	244	11.914	11.973	-0.059	99	6209848	80.0	83.4	
13 1,4-Dioxane	88	1.390	1.385	0.005	92	575941	80.0	78.1	
14 N-Nitrosodimethylamine	74	1.946	1.935	0.011	94	841968	80.0	81.6	
15 Pyridine	79	1.989	1.989	0.000	98	2836859	160.0	148.9	
21 Methyl methanesulfonate	80	4.371	4.371	0.000	87	822107	80.0	70.7	
25 Benzaldehyde	77	5.557	5.568	-0.011	94	942002	80.0	60.6	
26 Phenol	94	5.680	5.680	0.000	93	2233697	80.0	75.1	
27 Aniline	93	5.680	5.685	-0.005	88	2177057	80.0	65.9	
29 Bis(2-chloroethyl)ether	93	5.755	5.760	-0.005	100	1668472	80.0	75.9	
30 2-Chlorophenol	128	5.803	5.808	-0.005	96	1754676	80.0	78.9	
31 n-Decane	43	5.878	5.888	-0.010	85	1309611	80.0	72.4	
32 1,3-Dichlorobenzene	146	5.958	5.963	-0.005	97	1999522	80.0	75.3	
33 1,4-Dichlorobenzene	146	6.027	6.038	-0.011	94	2002196	80.0	75.9	
34 Benzyl alcohol	108	6.150	6.155	-0.005	93	1188846	80.0	82.8	
35 1,2-Dichlorobenzene	146	6.177	6.188	-0.011	97	1916046	80.0	75.9	
36 2-Methylphenol	108	6.273	6.278	-0.005	94	1561787	80.0	76.2	
37 Indene	116	6.268	6.278	-0.010	90	3049594	80.0	78.4	
38 2,2'-oxybis[1-chloropropan	45	6.289	6.300	-0.011	90	1712979	80.0	70.5	
39 N-Nitrosopyrrolidine	100	6.375	6.380	-0.005	95	806991	80.0	86.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
40 Acetophenone	105	6.401	6.412	-0.011	99	2393915	80.0	75.3	
41 N-Nitrosodi-n-propylamine	70	6.412	6.417	-0.005	78	1033868	80.0	73.3	
42 4-Methylphenol	108	6.412	6.423	-0.011	94	1648152	80.0	76.9	
45 Hexachloroethane	117	6.508	6.524	-0.016	90	824705	80.0	80.8	
46 Nitrobenzene	77	6.567	6.577	-0.010	93	1848657	80.0	79.2	
48 Isophorone	82	6.791	6.807	-0.016	99	3395681	80.0	81.0	
49 2-Nitrophenol	139	6.871	6.882	-0.011	97	962146	80.0	90.1	
50 2,4-Dimethylphenol	107	6.909	6.925	-0.016	96	1885281	80.0	78.7	
52 Benzoic acid	122	7.010	6.973	0.037	88	1142975	80.0	106.2	a
53 Bis(2-chloroethoxy)methane	93	6.994	7.010	-0.016	98	2066830	80.0	77.6	
54 2,4-Dichlorophenol	162	7.096	7.112	-0.016	93	1618618	80.0	80.6	
56 1,2,4-Trichlorobenzene	180	7.181	7.197	-0.016	92	1867738	80.0	76.6	
58 Naphthalene	128	7.251	7.267	-0.016	97	5201878	80.0	77.9	
59 4-Chloroaniline	127	7.293	7.315	-0.022	96	2062588	80.0	77.7	
60 2,6-Dichlorophenol	162	7.309	7.325	-0.016	98	1578131	80.0	79.8	
62 Hexachlorobutadiene	225	7.374	7.395	-0.021	93	1341624	80.0	78.8	
64 Caprolactam	113	7.609	7.598	0.011	81	562891	80.0	88.4	
67 4-Chloro-3-methylphenol	107	7.737	7.753	-0.016	95	1699989	80.0	83.0	
69 2-Methylnaphthalene	142	7.892	7.913	-0.021	93	3567554	80.0	80.8	
71 1-Methylnaphthalene	142	7.983	8.004	-0.021	93	3338651	80.0	81.4	
72 Hexachlorocyclopentadiene	237	8.041	8.068	-0.027	94	1663209	80.0	86.6	
73 1,2,4,5-Tetrachlorobenzene	216	8.047	8.073	-0.026	95	2215461	80.0	75.8	
74 2,4,6-Trichlorophenol	196	8.148	8.169	-0.021	89	1444026	80.0	81.6	
75 2,4,5-Trichlorophenol	196	8.186	8.201	-0.015	94	1547211	80.0	81.5	
76 1,1'-Biphenyl	154	8.314	8.340	-0.026	94	4374774	80.0	78.9	
77 2-Chloronaphthalene	162	8.341	8.367	-0.027	95	3505357	80.0	76.8	
79 2-Nitroaniline	65	8.421	8.447	-0.026	80	1103542	80.0	83.8	
82 Dimethyl phthalate	163	8.581	8.607	-0.026	99	4387311	80.0	80.9	
83 1,3-Dinitrobenzene	168	8.608	8.634	-0.026	89	687588	80.0	81.6	
84 2,6-Dinitrotoluene	165	8.640	8.661	-0.021	95	938575	80.0	84.9	
85 Acenaphthylene	152	8.725	8.752	-0.027	98	5163906	80.0	82.6	
86 3-Nitroaniline	138	8.795	8.821	-0.026	92	963612	80.0	84.4	
87 2,4-Dinitrophenol	184	8.891	8.912	-0.021	86	1628884	160.0	170.7	
88 Acenaphthene	153	8.885	8.912	-0.027	89	3354753	80.0	79.0	
89 4-Nitrophenol	109	8.939	8.955	-0.016	91	1650482	160.0	156.2	
91 2,4-Dinitrotoluene	165	9.008	9.035	-0.027	92	1316993	80.0	86.3	
93 Dibenzofuran	168	9.040	9.067	-0.027	96	4997600	80.0	78.8	
95 2,3,5,6-Tetrachlorophenol	232	9.110	9.136	-0.026	91	1415401	80.0	87.0	
96 2,3,4,6-Tetrachlorophenol	232	9.147	9.179	-0.032	70	1382998	80.0	83.6	
97 2-Naphthylamine	143	9.179	9.206	-0.027	94	2598381	80.0	67.1	
98 Diethyl phthalate	149	9.227	9.254	-0.027	99	4203795	80.0	80.7	
99 Hexadecane	57	9.238	9.265	-0.027	92	2024278	80.0	71.5	
100 4-Chlorophenyl phenyl ethe	204	9.339	9.371	-0.032	89	2497495	80.0	81.0	
101 4-Nitroaniline	138	9.361	9.377	-0.016	79	1006022	80.0	83.1	
103 Fluorene	166	9.356	9.382	-0.026	96	4128127	80.0	80.4	
104 4,6-Dinitro-2-methylphenol	198	9.388	9.414	-0.026	92	1921886	160.0	169.0	
105 N-Nitrosodiphenylamine	169	9.446	9.478	-0.032	96	3369834	80.0	85.4	
57 Azobenzene	77	9.489	9.516	-0.027	98	4126834	80.0	77.9	
90 1,2-Diphenylhydrazine	77	9.489	9.516	-0.027	100	4126834	80.0	78.1	
110 4-Bromophenyl phenyl ether	248	9.794	9.826	-0.032	61	1591929	80.0	85.7	
112 Hexachlorobenzene	284	9.868	9.906	-0.038	95	1629796	80.0	83.7	
113 Atrazine	200	9.922	9.948	-0.026	95	1277825	80.0	59.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
116 Pentachlorophenol	266	10.039	10.077	-0.038	94	2356492	160.0	169.7	
115 n-Octadecane	57	10.071	10.109	-0.038	96	2300316	80.0	75.8	
121 Phenanthrene	178	10.242	10.274	-0.032	96	6593423	80.0	82.5	
122 Anthracene	178	10.290	10.322	-0.032	96	6926086	80.0	86.4	
124 Carbazole	167	10.424	10.461	-0.037	96	5935263	80.0	84.7	
126 Di-n-butyl phthalate	149	10.723	10.766	-0.043	100	7333366	80.0	87.4	
131 Fluoranthene	202	11.466	11.519	-0.053	96	8333883	80.0	85.7	
132 Benzidine	184	11.594	11.653	-0.058	0	2760733	80.0	57.4	
133 Pyrene	202	11.749	11.807	-0.058	99	8477609	80.0	81.7	
138 Butyl benzyl phthalate	149	12.588	12.662	-0.074	98	3445609	80.0	86.9	
144 3,3'-Dichlorobenzidine	252	13.490	13.576	-0.086	73	3347528	80.0	83.4	
146 Benzo[a]anthracene	228	13.554	13.634	-0.080	97	8693014	80.0	83.7	
145 Bis(2-ethylhexyl) phthalat	149	13.560	13.650	-0.090	95	4621280	80.0	84.4	
147 Chrysene	228	13.619	13.704	-0.085	95	8025390	80.0	82.4	
150 Di-n-octyl phthalate	149	14.831	14.938	-0.107	99	8187017	80.0	81.3	
151 7,12-Dimethylbenz(a)anthra	256	15.622	15.718	-0.096	91	4362872	80.0	91.4	
152 Benzo[b]fluoranthene	252	15.627	15.729	-0.102	95	9403866	80.0	89.4	
153 Benzo[k]fluoranthene	252	15.686	15.782	-0.096	97	8042811	80.0	84.7	
219 Benzo[e]pyrene	252	16.188	16.289	-0.101	94	7714894	80.0	85.4	
154 Benzo[a]pyrene	252	16.295	16.396	-0.101	74	7761755	80.0	88.1	
157 Indeno[1,2,3-cd]pyrene	276	18.549	18.677	-0.128	95	9057244	80.0	89.8	M
158 Dibenz(a,h)anthracene	278	18.587	18.715	-0.128	91	7867751	80.0	92.2	
159 Benzo[g,h,i]perylene	276	19.089	19.222	-0.133	96	7299922	80.0	87.6	
S 197 Methyl Phenols,Total	108				0		160.0	153.1	
S 199 Total Cresols	108				0		160.0	153.1	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

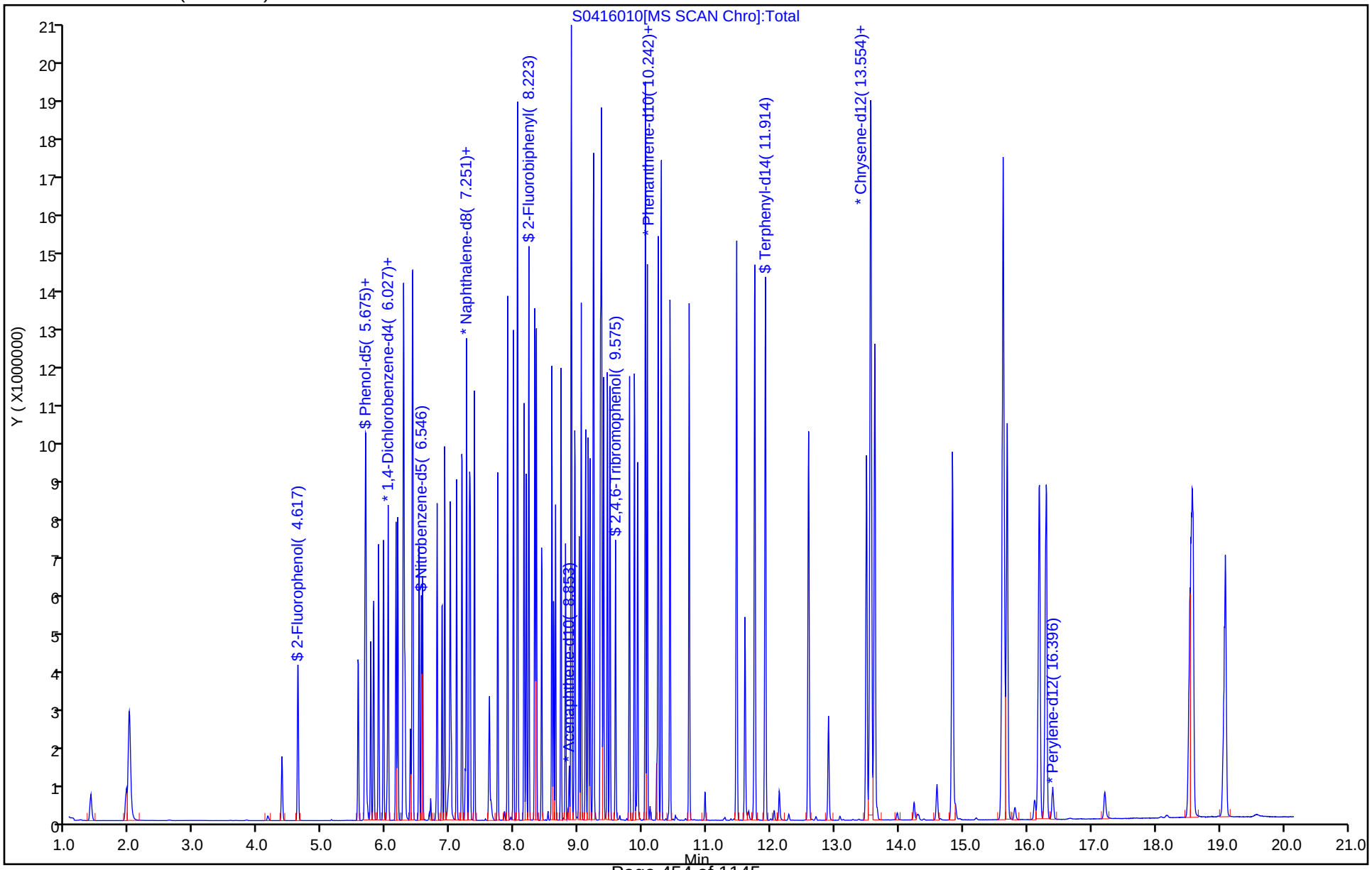
SVTAPSTD80i_00014 Amount Added: 1.00 Units: mL

Report Date: 17-Apr-2018 09:50:45 Chrom Revision: 2.2 13-Mar-2018 08:45:20

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416010.D				
Injection Date:	16-Apr-2018 12:53:30	Instrument ID:	CH71	Operator ID:	001562
Lims ID:	IC R80			Worklist Smp#:	10
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



Manual Integration/User Assign Peak Report

TestAmerica Pittsburgh

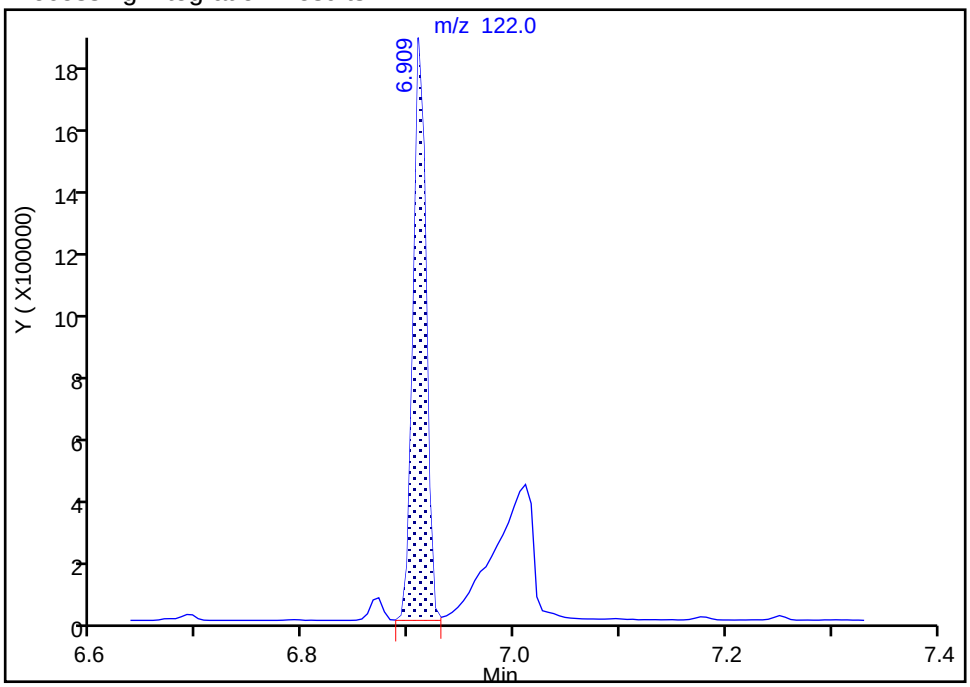
Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416010.D				
Injection Date:	16-Apr-2018 12:53:30	Instrument ID:	CH71		
Lims ID:	IC R80				
Client ID:					
Operator ID:	001562	ALS Bottle#:	9	Worklist Smp#:	10
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

52 Benzoic acid, CAS: 65-85-0

Signal: 1

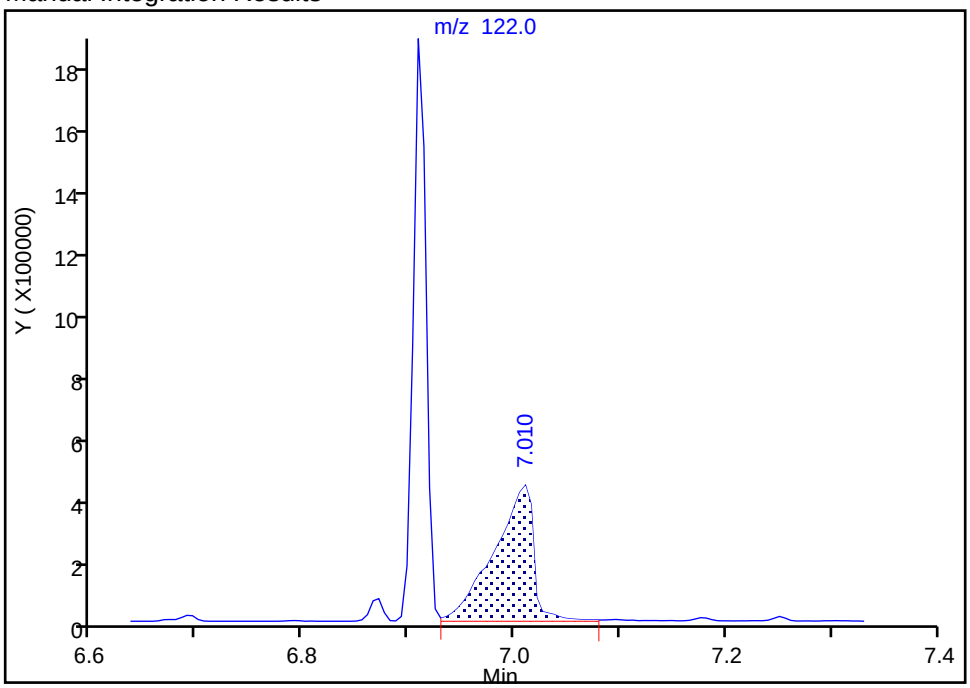
Processing Integration Results

RT: 6.91
Area: 1599814
Amount: 131.9200
Amount Units: ng



Manual Integration Results

RT: 7.01
Area: 1142975
Amount: 106.1903
Amount Units: ng



Reviewer: fergusond, 16-Apr-2018 13:23:33

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Pittsburgh

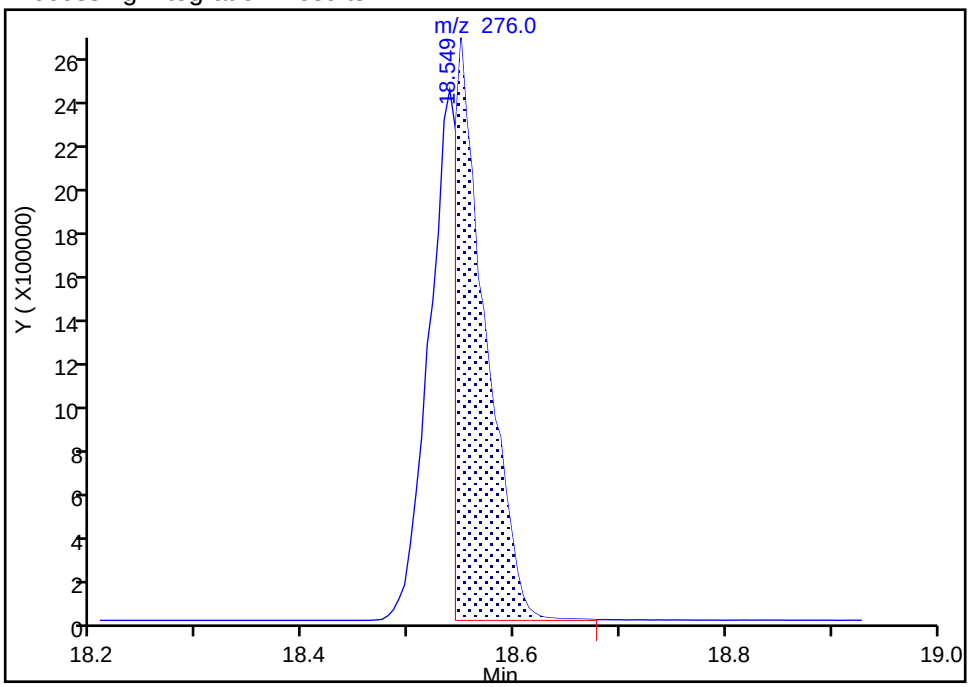
Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416010.D				
Injection Date:	16-Apr-2018 12:53:30	Instrument ID:	CH71		
Lims ID:	IC R80				
Client ID:					
Operator ID:	001562	ALS Bottle#:	9	Worklist Smp#:	10
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

157 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

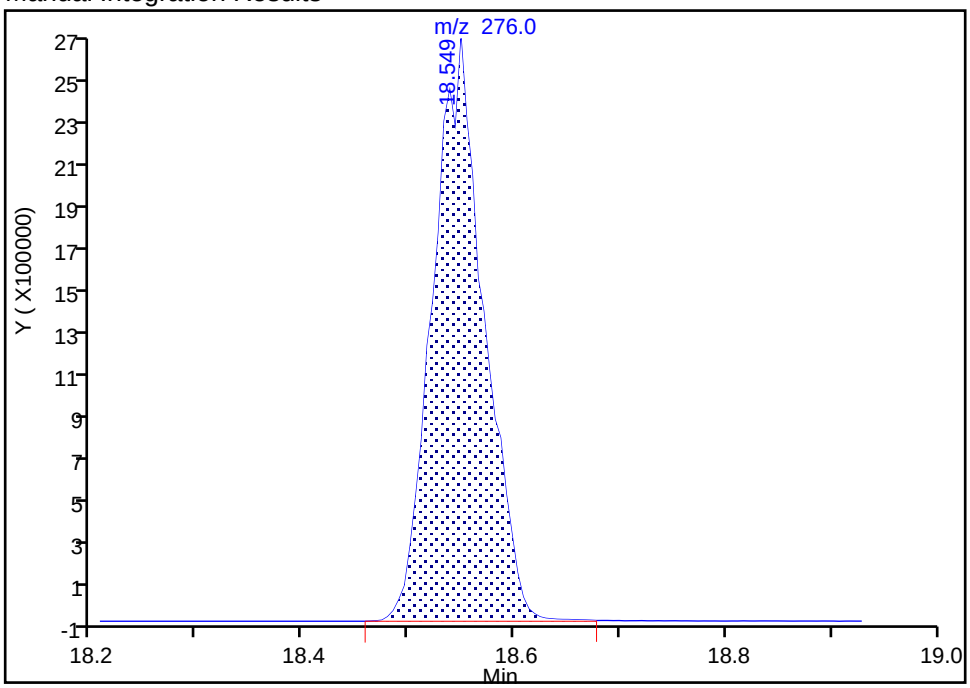
Processing Integration Results

RT: 18.55
Area: 5393736
Amount: 56.676363
Amount Units: ng



Manual Integration Results

RT: 18.55
Area: 9057244
Amount: 89.772101
Amount Units: ng



Reviewer: fergusond, 16-Apr-2018 14:06:00

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Lab Sample ID: CCVIS 180-259743/4 Calibration Date: 10/13/2018 13:28

Instrument ID: CH71 Calib Start Date: 04/16/2018 09:38

GC Column: Rxi-5SilMS ID: 0.32(mm) Calib End Date: 04/16/2018 12:53

Lab File ID: S1013004.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.4495	0.4833	0.0100	5.38	5.00	7.5	40.0
N-Nitrosodimethylamine	Ave	0.6286	0.7439	0.0100	5.92	5.00	18.3	20.0
Pyridine	Ave	1.161	1.248	0.0100	10.7	10.0	7.5	20.0
Methyl methanesulfonate	Ave	0.7082	0.5644	0.0100	3.98	5.00	-20.3	40.0
Benzaldehyde	Ave	0.9476	1.233	0.0100	6.50	5.00	30.1	40.0
Phenol	Ave	1.813	1.718	0.8000	4.74	5.00	-5.2	20.0
Aniline	Ave	2.013	1.887	0.0100	4.69	5.00	-6.2	20.0
Bis(2-chloroethyl)ether	Ave	1.339	1.216	0.7000	4.54	5.00	-9.1	20.0
2-Chlorophenol	Ave	1.354	1.379	0.8000	5.09	5.00	1.8	20.0
n-Decane	Ave	1.102	1.395		6.33	5.00	26.7*	20.0
1,3-Dichlorobenzene	Ave	1.619	1.576	0.0100	4.87	5.00	-2.6	20.0
1,4-Dichlorobenzene	Ave	1.608	1.583	0.0100	4.92	5.00	-1.6	20.0
Benzyl alcohol	Ave	0.8748	0.8046	0.0100	4.60	5.00	-8.0	20.0
1,2-Dichlorobenzene	Ave	1.537	1.534	0.0100	4.99	5.00	-0.2	20.0
2-Methylphenol	Ave	1.249	1.198	0.7000	4.80	5.00	-4.1	20.0
Indene	Ave	2.370	2.377	0.0100	5.01	5.00	0.3	20.0
2,2'-oxybis[1-chloropropane]	Ave	1.479	1.693	0.0100	5.72	5.00	14.4	20.0
N-Nitrosopyrrolidine	Ave	0.5666	0.5003	0.0100	4.41	5.00	-11.7	20.0
Acetophenone	Ave	1.938	1.739	0.0100	4.49	5.00	-10.2	20.0
N-Nitrosodi-n-propylamine	Ave	0.8597	0.8390	0.5000	4.88	5.00	-2.4	20.0
Methylphenol, 3 & 4	Ave	1.306	1.228	0.6000	4.70	5.00	-6.0	20.0
Hexachloroethane	Ave	0.6221	0.5869	0.3000	4.72	5.00	-5.7	20.0
Nitrobenzene	Ave	0.3784	0.3484	0.2000	4.60	5.00	-7.9	20.0
Isophorone	Ave	0.6799	0.5493	0.4000	4.04	5.00	-19.2	20.0
2-Nitrophenol	Ave	0.1732	0.1912	0.1000	5.52	5.00	10.4	20.0
2,4-Dimethylphenol	Ave	0.3888	0.3204	0.2000	4.12	5.00	-17.6	20.0
Benzoic acid	Ave	0.1746	0.1463	0.0100	4.19	5.00	-16.2	40.0
Bis(2-chloroethoxy)methane	Ave	0.4322	0.3684	0.3000	4.26	5.00	-14.8	20.0
2,4-Dichlorophenol	Ave	0.3259	0.2983	0.2000	4.58	5.00	-8.5	20.0
1,2,4-Trichlorobenzene	Ave	0.3957	0.3631	0.0100	4.59	5.00	-8.3	20.0
Naphthalene	Ave	1.084	1.006	0.7000	4.64	5.00	-7.1	20.0
4-Chloroaniline	Ave	0.4308	0.3994	0.0100	4.64	5.00	-7.3	20.0
2,6-Dichlorophenol	Ave	0.3207	0.2952	0.0100	4.60	5.00	-8.0	20.0
Hexachlorobutadiene	Ave	0.2762	0.2934	0.0100	5.31	5.00	6.2	20.0
Caprolactam	Ave	0.1033	0.0922	0.0100	4.46	5.00	-10.8	20.0
4-Chloro-3-methylphenol	Ave	0.3323	0.2791	0.2000	4.20	5.00	-16.0	20.0
2-Methylnaphthalene	Ave	0.7165	0.6945	0.4000	4.85	5.00	-3.1	20.0
1-Methylnaphthalene	Ave	0.6651	0.6405	0.0100	4.81	5.00	-3.7	20.0
Hexachlorocyclopentadiene	Ave	0.5477	0.4977	0.0500	4.54	5.00	-9.1	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.8341	0.7411	0.0100	4.44	5.00	-11.2	20.0
2,4,6-Trichlorophenol	Ave	0.5046	0.4576	0.2000	4.53	5.00	-9.3	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Lab Sample ID: CCVIS 180-259743/4 Calibration Date: 10/13/2018 13:28

Instrument ID: CH71 Calib Start Date: 04/16/2018 09:38

GC Column: Rxi-5SilMS ID: 0.32(mm) Calib End Date: 04/16/2018 12:53

Lab File ID: S1013004.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,4,5-Trichlorophenol	Ave	0.5412	0.4895	0.2000	4.52	5.00	-9.6	20.0
1,1'-Biphenyl	Ave	1.582	1.690	0.0100	5.34	5.00	6.9	20.0
2-Chloronaphthalene	Ave	1.302	1.380	0.8000	5.30	5.00	6.0	20.0
2-Nitroaniline	Ave	0.3755	0.3567	0.0100	4.75	5.00	-5.0	20.0
Dimethyl phthalate	Ave	1.546	1.519	0.0100	4.91	5.00	-1.8	20.0
1,3-Dinitrobenzene	Lin2		0.2379	0.0100	5.39	5.00	7.7	40.0
2,6-Dinitrotoluene	Ave	0.3154	0.3362	0.2000	5.33	5.00	6.6	20.0
Acenaphthylene	Ave	1.784	1.921	0.9000	5.38	5.00	7.7	20.0
3-Nitroaniline	Ave	0.3255	0.3586	0.0100	5.51	5.00	10.2	20.0
Acenaphthene	Ave	1.212	1.267	0.9000	5.23	5.00	4.6	20.0
2,4-Dinitrophenol	Lin2		0.2470	0.0100	9.80	10.0	-2.0	40.0
4-Nitrophenol	Ave	0.3013	0.2606	0.0100	8.65	10.0	-13.5	20.0
2,4-Dinitrotoluene	Ave	0.4353	0.4586	0.2000	5.27	5.00	5.3	20.0
Dibenzofuran	Ave	1.809	1.846	0.8000	5.10	5.00	2.0	20.0
2,3,5,6-Tetrachlorophenol	Ave	0.4638	0.4276	0.0100	4.61	5.00	-7.8	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.4721	0.4485	0.0100	4.75	5.00	-5.0	20.0
2-Naphthylamine	Ave	1.104	1.161	0.0100	5.26	5.00	5.2	40.0
Diethyl phthalate	Ave	1.485	1.379	0.0100	4.64	5.00	-7.1	20.0
Hexadecane	Ave	0.4594	0.3990		4.34	5.00	-13.1	20.0
4-Chlorophenyl phenyl ether	Ave	0.8800	0.8158	0.4000	4.64	5.00	-7.3	20.0
4-Nitroaniline	Ave	0.3455	0.3762	0.0100	5.44	5.00	8.9	20.0
Fluorene	Ave	1.465	1.479	0.9000	5.05	5.00	1.0	20.0
4,6-Dinitro-2-methylphenol	Lin2		0.1451	0.0100	10.4	10.0	3.9	20.0
N-Nitrosodiphenylamine	Ave	0.5257	0.5844	0.0100	5.56	5.00	11.2	20.0
1,2-Diphenylhydrazine(as Azobenzene)	Ave	0.7036	0.6644	0.0100	4.72	5.00	-5.6	20.0
4-Bromophenyl phenyl ether	Ave	0.2475	0.2507	0.1000	5.06	5.00	1.3	20.0
Hexachlorobenzene	Ave	0.2594	0.2692	0.1000	5.19	5.00	3.7	20.0
Atrazine	Lin1		0.1622	0.0100	3.27	5.00	-34.6	40.0
Pentachlorophenol	Ave	0.1850	0.1873	0.0500	10.1	10.0	1.2	20.0
n-Octadecane	Ave	1.850	1.486		4.02	5.00	-19.7	20.0
Phenanthrene	Ave	1.065	1.161	0.7000	5.45	5.00	9.1	20.0
Anthracene	Ave	1.068	1.189	0.7000	5.57	5.00	11.4	20.0
Carbazole	Ave	0.9334	1.034	0.0100	5.54	5.00	10.8	20.0
Di-n-butyl phthalate	Ave	1.118	1.210	0.0100	5.41	5.00	8.3	20.0
Fluoranthene	Ave	1.296	1.309	0.6000	5.05	5.00	1.0	20.0
Benzidine	Lin1		0.5963	0.0100	5.70	5.00	14.0	40.0
Pyrene	Ave	1.193	1.222	0.6000	5.12	5.00	2.4	20.0
Butyl benzyl phthalate	Ave	0.4562	0.4837	0.0100	5.30	5.00	6.0	20.0
3,3'-Dichlorobenzidine	Lin2		0.4335	0.0100	4.99	5.00	-0.1	40.0
Benzo[a]anthracene	Ave	1.195	1.212	0.8000	5.07	5.00	1.4	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Lab Sample ID: CCVIS 180-259743/4 Calibration Date: 10/13/2018 13:28

Instrument ID: CH71 Calib Start Date: 04/16/2018 09:38

GC Column: Rxi-5SilMS ID: 0.32(mm) Calib End Date: 04/16/2018 12:53

Lab File ID: S1013004.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Bis(2-ethylhexyl) phthalate	Ave	0.6302	0.6476	0.0100	5.14	5.00	2.8	20.0
Chrysene	Ave	1.121	1.191	0.7000	5.32	5.00	6.3	20.0
Di-n-octyl phthalate	Lin2		1.248	0.0100	4.98	5.00	-0.5	20.0
7,12-Dimethylbenz(a)anthracene	Ave	0.6503	0.6533	0.0100	5.02	5.00	0.5	20.0
Benzo[b]fluoranthene	Ave	1.434	1.467	0.7000	5.12	5.00	2.3	20.0
Benzo[k]fluoranthene	Ave	1.294	1.524	0.7000	5.89	5.00	17.8	20.0
Benzo[e]pyrene	Ave	1.232	1.318	0.0100	5.35	5.00	7.0	20.0
Benzo[a]pyrene	Ave	1.201	1.334	0.7000	5.56	5.00	11.1	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.375	1.434	0.5000	5.21	5.00	4.3	20.0
Dibenz(a,h)anthracene	Ave	1.163	1.241	0.4000	5.34	5.00	6.8	20.0
Benzo[g,h,i]perylene	Ave	1.135	1.230	0.5000	5.42	5.00	8.4	20.0
2-Fluorophenol (Surr)	Ave	1.259	1.258		4.99	5.00	-0.1	20.0
Phenol-d5 (Surr)	Ave	1.596	1.564		4.90	5.00	-2.0	20.0
Nitrobenzene-d5 (Surr)	Ave	0.3666	0.3380		4.61	5.00	-7.8	20.0
2-Fluorobiphenyl	Ave	1.656	1.553		4.69	5.00	-6.3	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.1072	0.1037	0.0100	4.84	5.00	-3.3	20.0
Terphenyl-d14 (Surr)	Ave	0.8565	0.8658		5.05	5.00	1.1	20.0

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013004.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 13-Oct-2018 13:28:30 ALS Bottle#: 2 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0024076-004
Misc. Info.: CCVIS
Operator ID: 001562 Instrument ID: CH71
Sublist: chrom-BNA_CH71*sub9

Method: \\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\BNA_CH71.m
Limit Group: BNA 8270D ICAL
Last Update: 13-Oct-2018 14:48:09 Calib Date: 16-Apr-2018 17:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416021.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: fergusond Date: 13-Oct-2018 14:02:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.997	5.997	0.000	95	161876	8.00	8.00	
* 2 Naphthalene-d8	136	7.204	7.204	0.000	99	605249	8.00	8.00	
* 3 Acenaphthene-d10	164	8.817	8.817	0.000	95	292122	8.00	8.00	
* 4 Phenanthrene-d10	188	10.179	10.179	0.000	96	555083	8.00	8.00	
* 5 Chrysene-d12	240	13.508	13.508	0.000	99	592727	8.00	8.00	
* 6 Perylene-d12	264	16.344	16.344	0.000	99	486702	8.00	8.00	Ma
$ 7 2-Fluorophenol	112	4.624	4.624	0.000	93	254526	10.0	9.99	
$ 8 Phenol-d5	99	5.649	5.649	0.000	99	316538	10.0	9.80	
$ 9 Nitrobenzene-d5	82	6.520	6.520	0.000	92	255697	10.0	9.22	
$ 10 2-Fluorobiphenyl	172	8.187	8.187	0.000	100	566931	10.0	9.37	
$ 11 2,4,6-Tribromophenol	330	9.533	9.533	0.000	94	71931	10.0	9.67	
$ 12 Terphenyl-d14	244	11.857	11.857	0.000	100	641497	10.0	10.1	
13 1,4-Dioxane	88	1.418	1.418	0.000	96	97795	10.0	10.8	M
14 N-Nitrosodimethylamine	74	1.979	1.979	0.000	93	150532	10.0	11.8	
15 Pyridine	79	2.017	2.017	0.000	92	504898	20.0	21.5	M
21 Methyl methanesulfonate	80	4.383	4.383	0.000	86	114204	10.0	7.97	
25 Benzaldehyde	77	5.548	5.548	0.000	93	249393	10.0	13.0	
26 Phenol	94	5.660	5.660	0.000	99	347710	10.0	9.48	
27 Aniline	93	5.665	5.665	0.000	98	381886	10.0	9.38	
29 Bis(2-chloroethyl)ether	93	5.740	5.740	0.000	96	246131	10.0	9.09	
30 2-Chlorophenol	128	5.788	5.788	0.000	97	278948	10.0	10.2	
31 n-Decane	43	5.858	5.858	0.000	90	282340	10.0	12.7	
32 1,3-Dichlorobenzene	146	5.938	5.938	0.000	98	318901	10.0	9.74	
33 1,4-Dichlorobenzene	146	6.013	6.013	0.000	94	320320	10.0	9.84	
34 Benzyl alcohol	108	6.130	6.130	0.000	92	162814	10.0	9.20	
35 1,2-Dichlorobenzene	146	6.157	6.157	0.000	98	310471	10.0	9.98	
37 Indene	116	6.242	6.242	0.000	90	480994	10.0	10.0	
36 2-Methylphenol	108	6.242	6.242	0.000	75	242376	10.0	9.59	
38 2,2'-oxybis[1-chloropropan	45	6.269	6.269	0.000	92	342523	10.0	11.4	
39 N-Nitrosopyrrolidine	100	6.349	6.349	0.000	87	101229	10.0	8.83	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
40 Acetophenone	105	6.381	6.381	0.000	98	351968	10.0	8.98	
41 N-Nitrosodi-n-propylamine	70	6.381	6.381	0.000	87	169763	10.0	9.76	
42 4-Methylphenol	108	6.387	6.387	0.000	96	248500	10.0	9.40	
45 Hexachloroethane	117	6.488	6.488	0.000	91	118762	10.0	9.43	
46 Nitrobenzene	77	6.541	6.541	0.000	88	263590	10.0	9.21	
48 Isophorone	82	6.766	6.766	0.000	98	415548	10.0	8.08	
49 2-Nitrophenol	139	6.846	6.846	0.000	93	144653	10.0	11.0	
50 2,4-Dimethylphenol	107	6.883	6.883	0.000	93	242385	10.0	8.24	
52 Benzoic acid	122	6.926	6.926	0.000	89	110709	10.0	8.38	
53 Bis(2-chloroethoxy)methane	93	6.969	6.969	0.000	99	278699	10.0	8.52	
54 2,4-Dichlorophenol	162	7.065	7.065	0.000	92	225648	10.0	9.15	
56 1,2,4-Trichlorobenzene	180	7.150	7.150	0.000	94	274699	10.0	9.17	
58 Naphthalene	128	7.220	7.220	0.000	97	761356	10.0	9.29	
59 4-Chloroaniline	127	7.263	7.263	0.000	96	302157	10.0	9.27	
60 2,6-Dichlorophenol	162	7.279	7.279	0.000	97	223297	10.0	9.20	
62 Hexachlorobutadiene	225	7.343	7.343	0.000	93	221986	10.0	10.6	
64 Caprolactam	113	7.546	7.546	0.000	78	69752	10.0	8.92	
67 4-Chloro-3-methylphenol	107	7.701	7.701	0.000	96	211168	10.0	8.40	
69 2-Methylnaphthalene	142	7.861	7.861	0.000	94	525465	10.0	9.69	
71 1-Methylnaphthalene	142	7.952	7.952	0.000	93	484552	10.0	9.63	
72 Hexachlorocyclopentadiene	237	8.011	8.011	0.000	93	181738	10.0	9.09	
73 1,2,4,5-Tetrachlorobenzene	216	8.016	8.016	0.000	96	270624	10.0	8.88	
74 2,4,6-Trichlorophenol	196	8.112	8.112	0.000	91	167101	10.0	9.07	
75 2,4,5-Trichlorophenol	196	8.144	8.144	0.000	95	178751	10.0	9.04	
76 1,1'-Biphenyl	154	8.283	8.283	0.000	94	617265	10.0	10.7	
77 2-Chloronaphthalene	162	8.304	8.304	0.000	95	503735	10.0	10.6	
79 2-Nitroaniline	65	8.384	8.384	0.000	86	130252	10.0	9.50	
82 Dimethyl phthalate	163	8.545	8.545	0.000	99	554559	10.0	9.82	
83 1,3-Dinitrobenzene	168	8.571	8.571	0.000	94	86882	10.0	10.8	
84 2,6-Dinitrotoluene	165	8.598	8.598	0.000	96	122751	10.0	10.7	
85 Acenaphthylene	152	8.689	8.689	0.000	98	701399	10.0	10.8	
86 3-Nitroaniline	138	8.758	8.758	0.000	95	130960	10.0	11.0	
88 Acenaphthene	153	8.844	8.844	0.000	91	462797	10.0	10.5	
87 2,4-Dinitrophenol	184	8.849	8.849	0.000	84	180364	20.0	19.6	
89 4-Nitrophenol	109	8.892	8.892	0.000	90	190307	20.0	17.3	
91 2,4-Dinitrotoluene	165	8.967	8.967	0.000	95	167456	10.0	10.5	
93 Dibenzofuran	168	9.004	9.004	0.000	97	674016	10.0	10.2	
95 2,3,5,6-Tetrachlorophenol	232	9.068	9.068	0.000	90	156152	10.0	9.22	
96 2,3,4,6-Tetrachlorophenol	232	9.111	9.111	0.000	69	163762	10.0	9.50	
97 2-Naphthylamine	143	9.138	9.138	0.000	98	424073	10.0	10.5	
98 Diethyl phthalate	149	9.180	9.180	0.000	99	503626	10.0	9.29	
99 Hexadecane	57	9.197	9.197	0.000	94	301874	10.0	8.69	
100 4-Chlorophenyl phenyl ethe	204	9.303	9.303	0.000	90	297883	10.0	9.27	
101 4-Nitroaniline	138	9.314	9.314	0.000	88	137383	10.0	10.9	
103 Fluorene	166	9.314	9.314	0.000	94	540184	10.0	10.1	
104 4,6-Dinitro-2-methylphenol	198	9.341	9.341	0.000	93	201405	20.0	20.8	
105 N-Nitrosodiphenylamine	169	9.410	9.410	0.000	98	405461	10.0	11.1	
90 1,2-Diphenylhydrazine	77	9.448	9.448	0.000	97	461005	10.0	9.44	
57 Azobenzene	77	9.448	9.448	0.000	96	461005	10.0	9.41	
110 4-Bromophenyl phenyl ether	248	9.752	9.752	0.000	63	173931	10.0	10.1	
112 Hexachlorobenzene	284	9.827	9.827	0.000	96	186751	10.0	10.4	
113 Atrazine	200	9.875	9.875	0.000	96	112507	10.0	6.54	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
116 Pentachlorophenol	266	9.998	9.998	0.000	94	259842	20.0	20.2	
115 n-Octadecane	57	10.030	10.030	0.000	95	300751	10.0	8.03	
121 Phenanthrene	178	10.201	10.201	0.000	96	805866	10.0	10.9	
122 Anthracene	178	10.244	10.244	0.000	96	825082	10.0	11.1	
124 Carbazole	167	10.382	10.382	0.000	96	717483	10.0	11.1	
126 Di-n-butyl phthalate	149	10.676	10.676	0.000	100	839860	10.0	10.8	
131 Fluoranthene	202	11.413	11.413	0.000	96	908303	10.0	10.1	
132 Benzidine	184	11.542	11.542	0.000	99	441818	10.0	11.4	
133 Pyrene	202	11.697	11.697	0.000	98	905508	10.0	10.2	
138 Butyl benzyl phthalate	149	12.530	12.530	0.000	96	358349	10.0	10.6	
144 3,3'-Dichlorobenzidine	252	13.427	13.427	0.000	73	321195	10.0	9.99	
146 Benzo[a]anthracene	228	13.486	13.486	0.000	98	897738	10.0	10.1	
145 Bis(2-ethylhexyl) phthalat	149	13.502	13.502	0.000	95	479797	10.0	10.3	
147 Chrysene	228	13.550	13.550	0.000	96	882762	10.0	10.6	
150 Di-n-octyl phthalate	149	14.774	14.774	0.000	99	759438	10.0	9.95	
151 7,12-Dimethylbenz(a)anthra	256	15.548	15.548	0.000	90	397430	10.0	10.0	
152 Benzo[b]fluoranthene	252	15.559	15.559	0.000	97	892550	10.0	10.2	
153 Benzo[k]fluoranthene	252	15.612	15.612	0.000	98	927340	10.0	11.8	
219 Benzo[e]pyrene	252	16.109	16.109	0.000	95	801932	10.0	10.7	
154 Benzo[a]pyrene	252	16.221	16.221	0.000	75	811489	10.0	11.1	
157 Indeno[1,2,3-cd]pyrene	276	18.481	18.481	0.000	99	872535	10.0	10.4	
158 Dibenz(a,h)anthracene	278	18.535	18.535	0.000	88	755214	10.0	10.7	
159 Benzo[g,h,i]perylene	276	19.031	19.031	0.000	98	748514	10.0	10.8	M
S 197 Methyl Phenols,Total	108				0		20.0	19.0	
S 199 Total Cresols	108				0		20.0	19.0	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

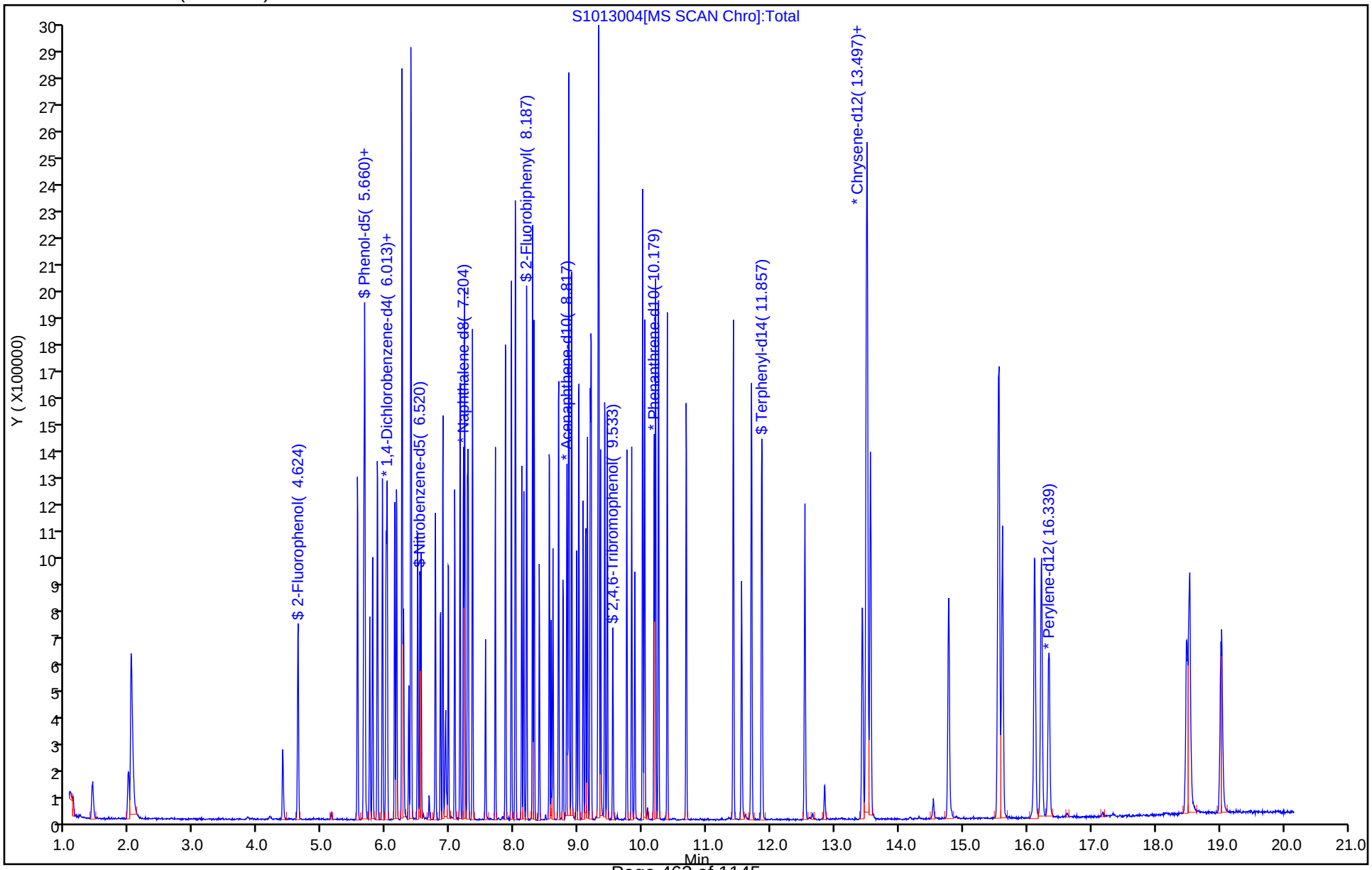
SVTAPSTD10i_00297 Amount Added: 1.00 Units: mL

Report Date: 13-Oct-2018 14:48:10 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013004.D				
Injection Date:	13-Oct-2018 13:28:30	Instrument ID:	CH71	Operator ID:	001562
Lims ID:	CCVIS			Worklist Smp#:	4
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



Manual Integration/User Assign Peak Report

TestAmerica Pittsburgh

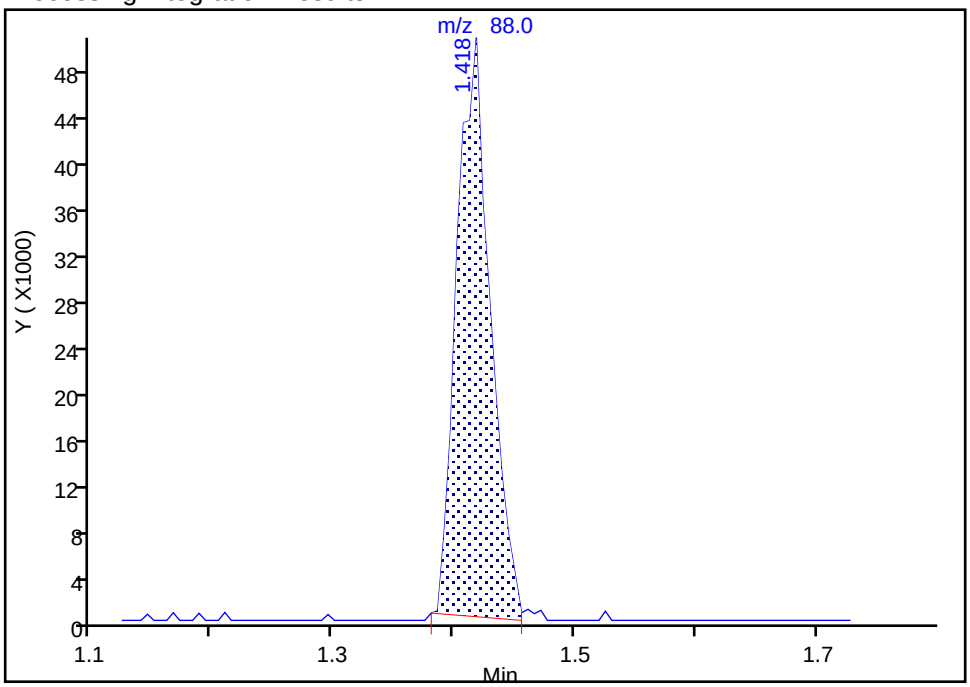
Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013004.D				
Injection Date:	13-Oct-2018 13:28:30	Instrument ID:	CH71		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	001562	ALS Bottle#:	2	Worklist Smp#:	4
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

13 1,4-Dioxane, CAS: 123-91-1

Signal: 1

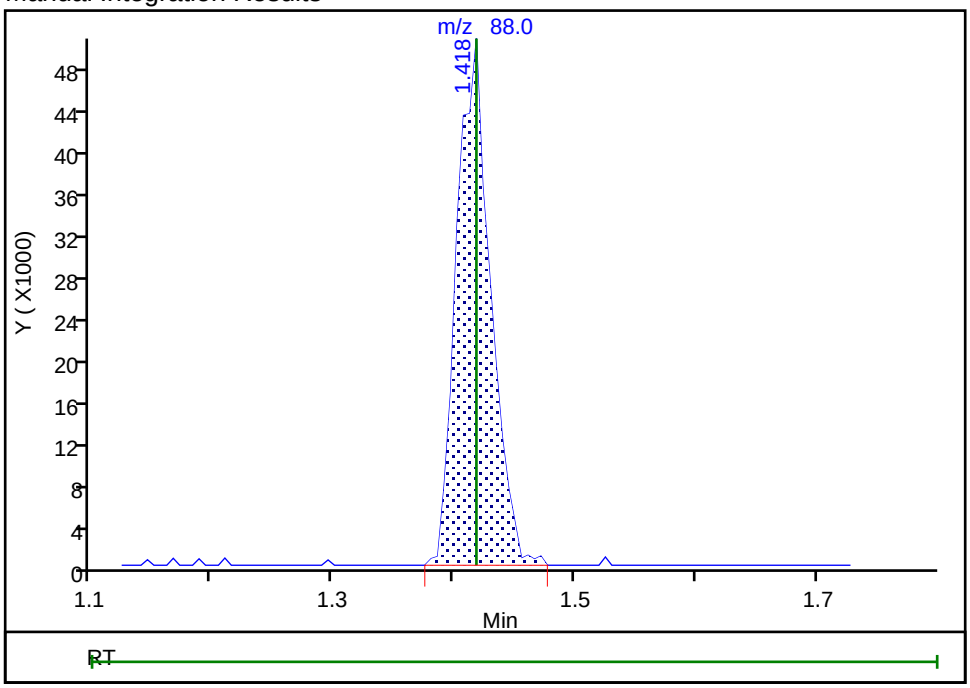
Processing Integration Results

RT: 1.42
Area: 95508
Amount: 10.500379
Amount Units: ng



Manual Integration Results

RT: 1.42
Area: 97795
Amount: 10.751817
Amount Units: ng



Reviewer: fergusond, 13-Oct-2018 13:55:58
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pittsburgh

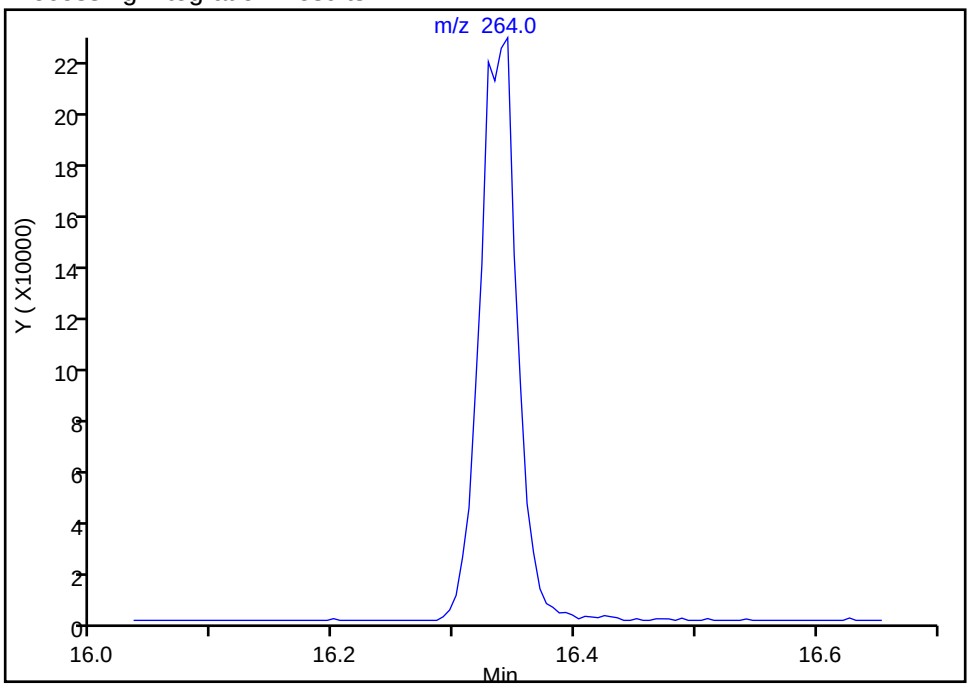
Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013004.D				
Injection Date:	13-Oct-2018 13:28:30	Instrument ID:	CH71		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	001562	ALS Bottle#:	2	Worklist Smp#:	4
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

* 6 Perylene-d12, CAS: 1520-96-3

Signal: 1

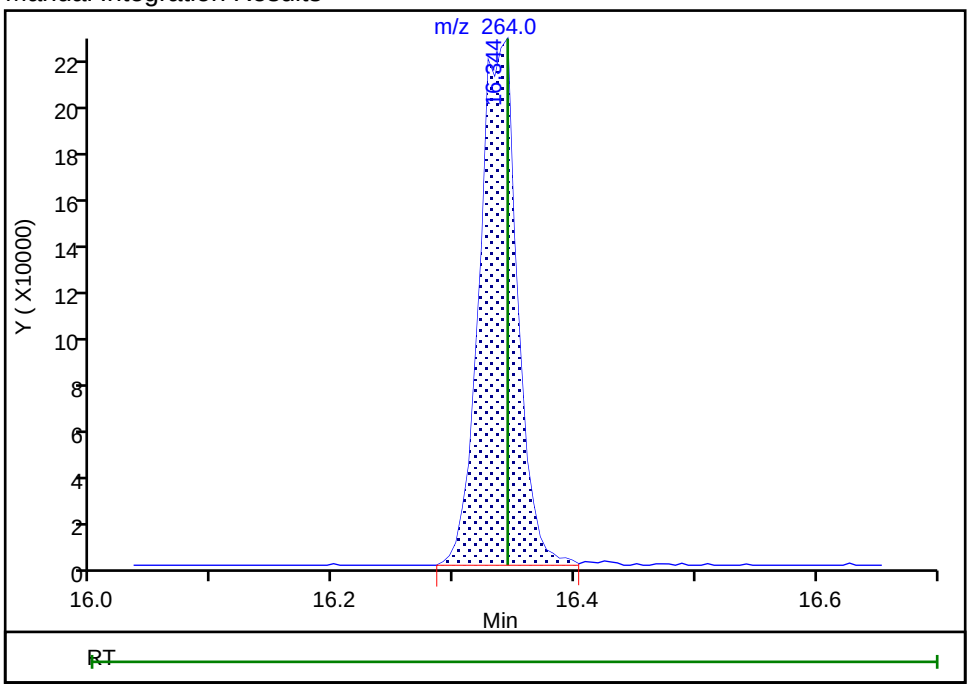
Not Detected
Expected RT: 16.34

Processing Integration Results



Manual Integration Results

RT: 16.34
Area: 486702
Amount: 8.000000
Amount Units: ng



Reviewer: fergusond, 13-Oct-2018 13:51:19
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pittsburgh

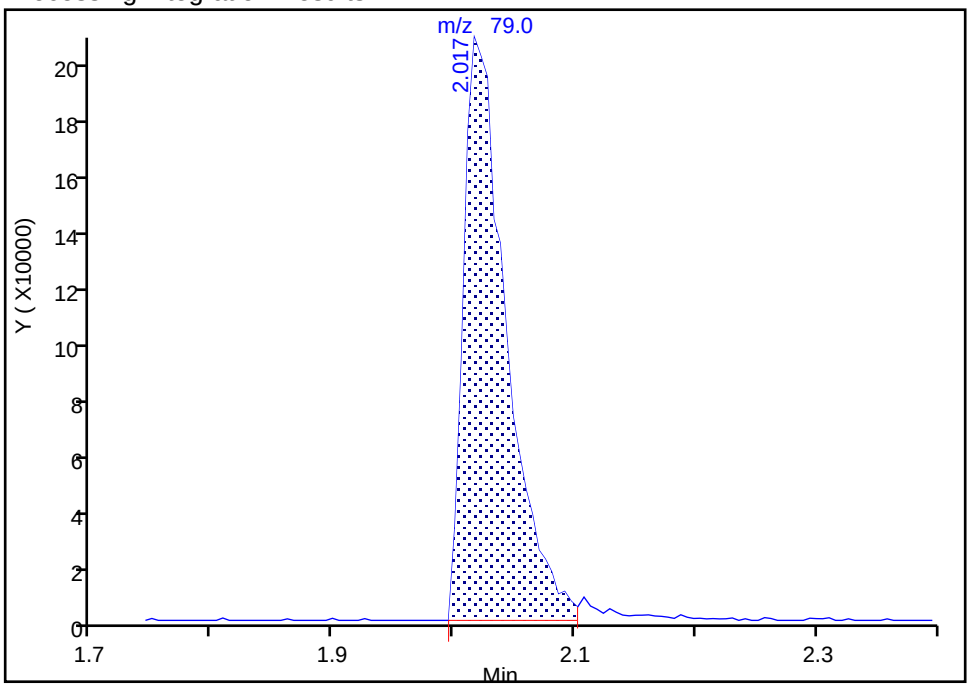
Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013004.D				
Injection Date:	13-Oct-2018 13:28:30	Instrument ID:	CH71		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	001562	ALS Bottle#:	2	Worklist Smp#:	4
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

15 Pyridine, CAS: 110-86-1

Signal: 1

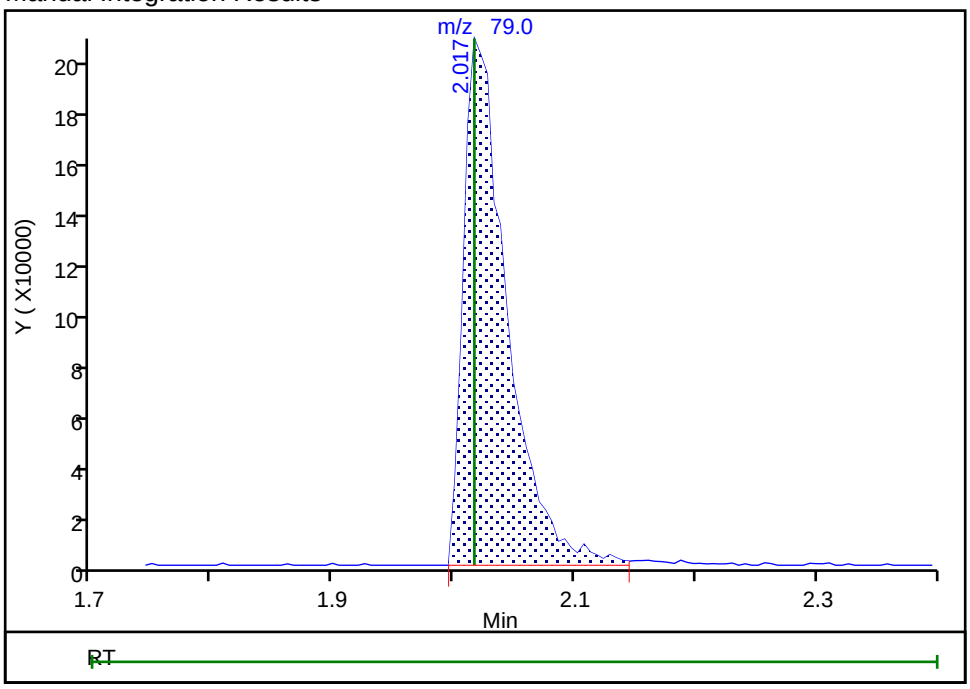
Processing Integration Results

RT: 2.02
Area: 495355
Amount: 21.084513
Amount Units: ng



Manual Integration Results

RT: 2.02
Area: 504898
Amount: 21.490706
Amount Units: ng



Reviewer: fergusond, 13-Oct-2018 13:56:17
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Pittsburgh

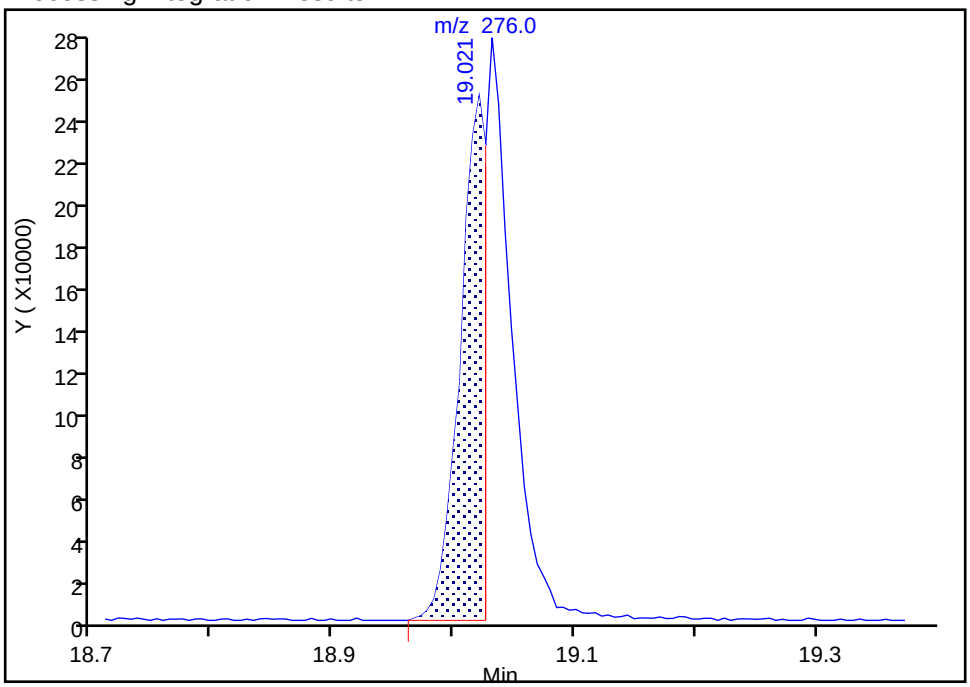
Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013004.D				
Injection Date:	13-Oct-2018 13:28:30	Instrument ID:	CH71		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	001562	ALS Bottle#:	2	Worklist Smp#:	4
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

159 Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

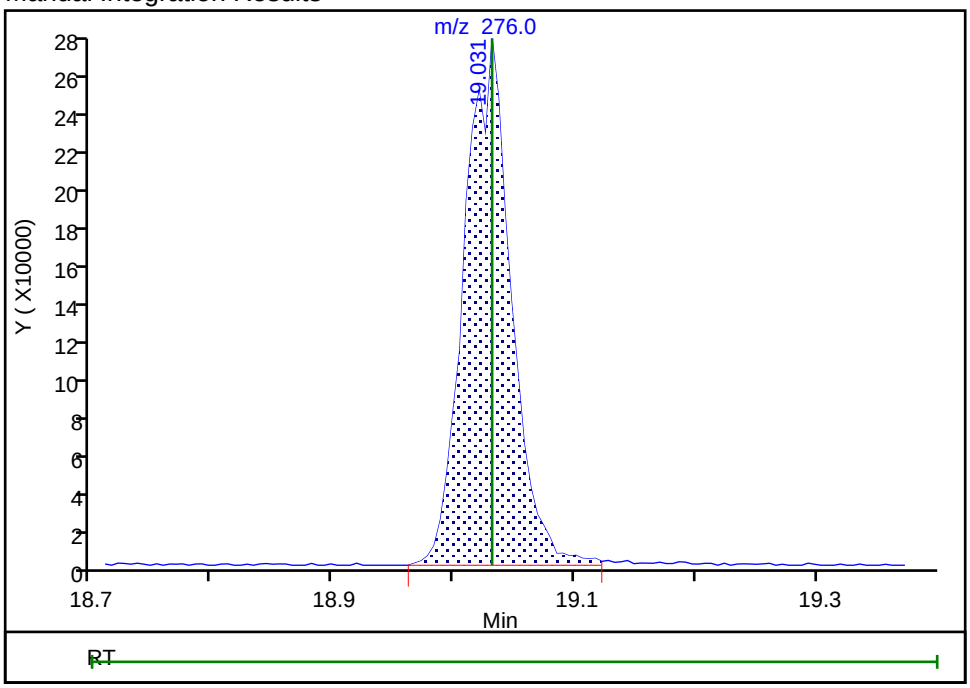
Processing Integration Results

RT: 19.02
Area: 379779
Amount: 5.498567
Amount Units: ng



Manual Integration Results

RT: 19.03
Area: 748514
Amount: 10.837236
Amount Units: ng



Reviewer: fergusond, 13-Oct-2018 13:52:01

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Lab Sample ID: CCVIS 180-259751/3 Calibration Date: 10/14/2018 13:19

Instrument ID: CH71 Calib Start Date: 04/16/2018 09:38

GC Column: Rxi-5SilMS ID: 0.32(mm) Calib End Date: 04/16/2018 12:53

Lab File ID: S1014003.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.4495	0.4822	0.0100	5.36	5.00	7.3	40.0
N-Nitrosodimethylamine	Ave	0.6286	0.7824	0.0100	6.22	5.00	24.5*	20.0
Pyridine	Ave	1.161	1.306	0.0100	11.2	10.0	12.5	20.0
Methyl methanesulfonate	Ave	0.7082	0.5763	0.0100	4.07	5.00	-18.6	40.0
Benzaldehyde	Ave	0.9476	1.227	0.0100	6.47	5.00	29.5	40.0
Phenol	Ave	1.813	1.767	0.8000	4.87	5.00	-2.5	20.0
Aniline	Ave	2.013	1.913	0.0100	4.75	5.00	-5.0	20.0
Bis(2-chloroethyl)ether	Ave	1.339	1.217	0.7000	4.54	5.00	-9.1	20.0
2-Chlorophenol	Ave	1.354	1.374	0.8000	5.07	5.00	1.5	20.0
n-Decane	Ave	1.102	1.468		6.66	5.00	33.2*	20.0
1,3-Dichlorobenzene	Ave	1.619	1.629	0.0100	5.03	5.00	0.6	20.0
1,4-Dichlorobenzene	Ave	1.608	1.621	0.0100	5.04	5.00	0.8	20.0
Benzyl alcohol	Ave	0.8748	0.8072	0.0100	4.61	5.00	-7.7	20.0
1,2-Dichlorobenzene	Ave	1.537	1.516	0.0100	4.93	5.00	-1.4	20.0
Indene	Ave	2.370	2.344	0.0100	4.95	5.00	-1.1	20.0
2-Methylphenol	Ave	1.249	1.207	0.7000	4.83	5.00	-3.4	20.0
2,2'-oxybis[1-chloropropane]	Ave	1.479	1.711	0.0100	5.78	5.00	15.7	20.0
N-Nitrosopyrrolidine	Ave	0.5666	0.5179	0.0100	4.57	5.00	-8.6	20.0
Acetophenone	Ave	1.938	1.719	0.0100	4.44	5.00	-11.3	20.0
N-Nitrosodi-n-propylamine	Ave	0.8597	0.8391	0.5000	4.88	5.00	-2.4	20.0
Methylphenol, 3 & 4	Ave	1.306	1.243	0.6000	4.76	5.00	-4.9	20.0
Hexachloroethane	Ave	0.6221	0.5683	0.3000	4.57	5.00	-8.7	20.0
Nitrobenzene	Ave	0.3784	0.3574	0.2000	4.72	5.00	-5.6	20.0
Isophorone	Ave	0.6799	0.5790	0.4000	4.26	5.00	-14.8	20.0
2-Nitrophenol	Ave	0.1732	0.1974	0.1000	5.70	5.00	14.0	20.0
2,4-Dimethylphenol	Ave	0.3888	0.3346	0.2000	4.30	5.00	-13.9	20.0
Benzoic acid	Ave	0.1746	0.1341	0.0100	3.84	5.00	-23.2	40.0
Bis(2-chloroethoxy)methane	Ave	0.4322	0.3752	0.3000	4.34	5.00	-13.2	20.0
2,4-Dichlorophenol	Ave	0.3259	0.3120	0.2000	4.79	5.00	-4.3	20.0
1,2,4-Trichlorobenzene	Ave	0.3957	0.3765	0.0100	4.76	5.00	-4.9	20.0
Naphthalene	Ave	1.084	1.029	0.7000	4.75	5.00	-5.1	20.0
4-Chloroaniline	Ave	0.4308	0.4120	0.0100	4.78	5.00	-4.3	20.0
2,6-Dichlorophenol	Ave	0.3207	0.2953	0.0100	4.60	5.00	-7.9	20.0
Hexachlorobutadiene	Ave	0.2762	0.2917	0.0100	5.28	5.00	5.6	20.0
Caprolactam	Ave	0.1033	0.0959	0.0100	4.64	5.00	-7.1	20.0
4-Chloro-3-methylphenol	Ave	0.3323	0.2860	0.2000	4.30	5.00	-13.9	20.0
2-Methylnaphthalene	Ave	0.7165	0.6837	0.4000	4.77	5.00	-4.6	20.0
1-Methylnaphthalene	Ave	0.6651	0.6578	0.0100	4.94	5.00	-1.1	20.0
Hexachlorocyclopentadiene	Ave	0.5477	0.4826	0.0500	4.40	5.00	-11.9	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.8341	0.7262	0.0100	4.35	5.00	-12.9	20.0
2,4,6-Trichlorophenol	Ave	0.5046	0.4439	0.2000	4.40	5.00	-12.0	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Lab Sample ID: CCVIS 180-259751/3 Calibration Date: 10/14/2018 13:19

Instrument ID: CH71 Calib Start Date: 04/16/2018 09:38

GC Column: Rxi-5SilMS ID: 0.32(mm) Calib End Date: 04/16/2018 12:53

Lab File ID: S1014003.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,4,5-Trichlorophenol	Ave	0.5412	0.4765	0.2000	4.40	5.00	-12.0	20.0
1,1'-Biphenyl	Ave	1.582	1.666	0.0100	5.27	5.00	5.3	20.0
2-Chloronaphthalene	Ave	1.302	1.334	0.8000	5.12	5.00	2.5	20.0
2-Nitroaniline	Ave	0.3755	0.3538	0.0100	4.71	5.00	-5.8	20.0
Dimethyl phthalate	Ave	1.546	1.467	0.0100	4.74	5.00	-5.1	20.0
1,3-Dinitrobenzene	Lin2		0.2462	0.0100	5.56	5.00	11.1	40.0
2,6-Dinitrotoluene	Ave	0.3154	0.3463	0.2000	5.49	5.00	9.8	20.0
Acenaphthylene	Ave	1.784	1.870	0.9000	5.24	5.00	4.9	20.0
3-Nitroaniline	Ave	0.3255	0.3610	0.0100	5.54	5.00	10.9	20.0
Acenaphthene	Ave	1.212	1.279	0.9000	5.28	5.00	5.5	20.0
2,4-Dinitrophenol	Lin2		0.2440	0.0100	9.69	10.0	-3.1	40.0
4-Nitrophenol	Ave	0.3013	0.2430	0.0100	8.06	10.0	-19.4	20.0
2,4-Dinitrotoluene	Ave	0.4353	0.4529	0.2000	5.20	5.00	4.0	20.0
Dibenzofuran	Ave	1.809	1.875	0.8000	5.18	5.00	3.7	20.0
2,3,5,6-Tetrachlorophenol	Ave	0.4638	0.3914	0.0100	4.22	5.00	-15.6	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.4721	0.4065	0.0100	4.31	5.00	-13.9	20.0
2-Naphthylamine	Ave	1.104	1.146	0.0100	5.19	5.00	3.9	40.0
Diethyl phthalate	Ave	1.485	1.396	0.0100	4.70	5.00	-6.0	20.0
Hexadecane	Ave	0.4594	0.4094		4.46	5.00	-10.9	20.0
4-Chlorophenyl phenyl ether	Ave	0.8800	0.8123	0.4000	4.62	5.00	-7.7	20.0
4-Nitroaniline	Ave	0.3455	0.3917	0.0100	5.67	5.00	13.4	20.0
Fluorene	Ave	1.465	1.470	0.9000	5.02	5.00	0.4	20.0
4,6-Dinitro-2-methylphenol	Lin2		0.1437	0.0100	10.3	10.0	3.0	20.0
N-Nitrosodiphenylamine	Ave	0.5257	0.5851	0.0100	5.56	5.00	11.3	20.0
1,2-Diphenylhydrazine(as Azobenzene)	Ave	0.7036	0.6666	0.0100	4.74	5.00	-5.3	20.0
4-Bromophenyl phenyl ether	Ave	0.2475	0.2496	0.1000	5.04	5.00	0.8	20.0
Hexachlorobenzene	Ave	0.2594	0.2490	0.1000	4.80	5.00	-4.0	20.0
Atrazine	Lin1		0.1650	0.0100	3.32	5.00	-33.6	40.0
Pentachlorophenol	Ave	0.1850	0.1590	0.0500	8.59	10.0	-14.1	20.0
n-Octadecane	Ave	1.850	1.484		4.01	5.00	-19.8	20.0
Phenanthrene	Ave	1.065	1.191	0.7000	5.59	5.00	11.8	20.0
Anthracene	Ave	1.068	1.202	0.7000	5.63	5.00	12.6	20.0
Carbazole	Ave	0.9334	1.045	0.0100	5.59	5.00	11.9	20.0
Di-n-butyl phthalate	Ave	1.118	1.258	0.0100	5.63	5.00	12.5	20.0
Fluoranthene	Ave	1.296	1.325	0.6000	5.11	5.00	2.2	20.0
Benzidine	Lin1		0.6195	0.0100	5.91	5.00	18.1	40.0
Pyrene	Ave	1.193	1.191	0.6000	4.99	5.00	-0.2	20.0
Butyl benzyl phthalate	Ave	0.4562	0.4954	0.0100	5.43	5.00	8.6	20.0
3,3'-Dichlorobenzidine	Lin2		0.4300	0.0100	4.96	5.00	-0.9	40.0
Benzo[a]anthracene	Ave	1.195	1.228	0.8000	5.14	5.00	2.7	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Lab Sample ID: CCVIS 180-259751/3 Calibration Date: 10/14/2018 13:19

Instrument ID: CH71 Calib Start Date: 04/16/2018 09:38

GC Column: Rxi-5SilMS ID: 0.32(mm) Calib End Date: 04/16/2018 12:53

Lab File ID: S1014003.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Bis(2-ethylhexyl) phthalate	Ave	0.6302	0.6864	0.0100	5.45	5.00	8.9	20.0
Chrysene	Ave	1.121	1.184	0.7000	5.28	5.00	5.6	20.0
Di-n-octyl phthalate	Lin2		1.367	0.0100	5.40	5.00	8.1	20.0
7,12-Dimethylbenz(a)anthracene	Ave	0.6503	0.6355	0.0100	4.89	5.00	-2.3	20.0
Benzo[b]fluoranthene	Ave	1.434	1.421	0.7000	4.96	5.00	-0.9	20.0
Benzo[k]fluoranthene	Ave	1.294	1.414	0.7000	5.46	5.00	9.2	20.0
Benzo[e]pyrene	Ave	1.232	1.291	0.0100	5.24	5.00	4.8	20.0
Benzo[a]pyrene	Ave	1.201	1.320	0.7000	5.50	5.00	9.9	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.375	1.442	0.5000	5.24	5.00	4.8	20.0
Dibenz(a,h)anthracene	Ave	1.163	1.226	0.4000	5.27	5.00	5.4	20.0
Benzo[g,h,i]perylene	Ave	1.135	1.203	0.5000	5.30	5.00	5.9	20.0
2-Fluorophenol (Surr)	Ave	1.259	1.280		5.08	5.00	1.6	20.0
Phenol-d5 (Surr)	Ave	1.596	1.542		4.83	5.00	-3.3	20.0
Nitrobenzene-d5 (Surr)	Ave	0.3666	0.3444		4.70	5.00	-6.0	20.0
2-Fluorobiphenyl	Ave	1.656	1.501		4.53	5.00	-9.4	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.1072	0.1012	0.0100	4.72	5.00	-5.6	20.0
Terphenyl-d14 (Surr)	Ave	0.8565	0.8405		4.91	5.00	-1.9	20.0

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014003.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 14-Oct-2018 13:19:30 ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0024080-003
Misc. Info.: CCVIS
Operator ID: 001562 Instrument ID: CH71
Sublist: chrom-BNA_CH71*sub9

Method: \\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\BNA_CH71.m
Limit Group: BNA 8270D ICAL
Last Update: 14-Oct-2018 14:09:47 Calib Date: 16-Apr-2018 17:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416021.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: fergusond Date: 14-Oct-2018 13:47:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.001	6.001	0.000	95	154286	8.00	8.00	
* 2 Naphthalene-d8	136	7.214	7.214	0.000	99	570146	8.00	8.00	
* 3 Acenaphthene-d10	164	8.822	8.822	0.000	95	283067	8.00	8.00	
* 4 Phenanthrene-d10	188	10.179	10.179	0.000	97	539422	8.00	8.00	
* 5 Chrysene-d12	240	13.480	13.480	0.000	99	601039	8.00	8.00	
* 6 Perylene-d12	264	16.285	16.285	0.000	99	499494	8.00	8.00	
$ 7 2-Fluorophenol	112	4.628	4.628	0.000	93	246833	10.0	10.2	
$ 8 Phenol-d5	99	5.659	5.659	0.000	98	297427	10.0	9.67	
$ 9 Nitrobenzene-d5	82	6.530	6.530	0.000	91	245476	10.0	9.40	
$ 10 2-Fluorobiphenyl	172	8.197	8.197	0.000	100	531119	10.0	9.06	
$ 11 2,4,6-Tribromophenol	330	9.543	9.543	0.000	94	68222	10.0	9.44	
$ 12 Terphenyl-d14	244	11.846	11.846	0.000	100	631431	10.0	9.81	
13 1,4-Dioxane	88	1.407	1.407	0.000	97	92986	10.0	10.7	
14 N-Nitrosodimethylamine	74	1.973	1.973	0.000	92	150888	10.0	12.4	
15 Pyridine	79	2.032	2.032	0.000	93	503623	20.0	22.5	
21 Methyl methanesulfonate	80	4.388	4.388	0.000	87	111138	10.0	8.14	
25 Benzaldehyde	77	5.558	5.558	0.000	92	236637	10.0	12.9	
26 Phenol	94	5.670	5.670	0.000	85	340845	10.0	9.75	
27 Aniline	93	5.675	5.675	0.000	91	368854	10.0	9.50	
29 Bis(2-chloroethyl)ether	93	5.745	5.745	0.000	95	234623	10.0	9.09	
30 2-Chlorophenol	128	5.798	5.798	0.000	97	264974	10.0	10.1	
31 n-Decane	43	5.868	5.868	0.000	90	283073	10.0	13.3	
32 1,3-Dichlorobenzene	146	5.948	5.948	0.000	98	314101	10.0	10.1	
33 1,4-Dichlorobenzene	146	6.017	6.017	0.000	93	312550	10.0	10.1	
34 Benzyl alcohol	108	6.140	6.140	0.000	92	155670	10.0	9.23	
35 1,2-Dichlorobenzene	146	6.167	6.167	0.000	97	292455	10.0	9.86	
37 Indene	116	6.252	6.252	0.000	90	452128	10.0	9.89	
36 2-Methylphenol	108	6.258	6.258	0.000	92	232716	10.0	9.66	
38 2,2'-oxybis[1-chloropropan	45	6.274	6.274	0.000	93	330024	10.0	11.6	
39 N-Nitrosopyrrolidine	100	6.359	6.359	0.000	86	99874	10.0	9.14	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
41 N-Nitrosodi-n-propylamine	70	6.391	6.391	0.000	89	161820	10.0	9.76	
40 Acetophenone	105	6.391	6.391	0.000	96	331547	10.0	8.87	
42 4-Methylphenol	108	6.402	6.402	0.000	94	239673	10.0	9.51	
45 Hexachloroethane	117	6.498	6.498	0.000	91	109596	10.0	9.13	
46 Nitrobenzene	77	6.552	6.552	0.000	90	254707	10.0	9.44	
48 Isophorone	82	6.776	6.776	0.000	98	412652	10.0	8.52	
49 2-Nitrophenol	139	6.856	6.856	0.000	93	140649	10.0	11.4	
50 2,4-Dimethylphenol	107	6.893	6.893	0.000	95	238469	10.0	8.61	
52 Benzoic acid	122	6.942	6.942	0.000	89	95560	10.0	7.68	
53 Bis(2-chloroethoxy)methane	93	6.979	6.979	0.000	99	267412	10.0	8.68	
54 2,4-Dichlorophenol	162	7.075	7.075	0.000	93	222363	10.0	9.57	
56 1,2,4-Trichlorobenzene	180	7.161	7.161	0.000	93	268323	10.0	9.51	
58 Naphthalene	128	7.230	7.230	0.000	97	733382	10.0	9.49	
59 4-Chloroaniline	127	7.278	7.278	0.000	97	293644	10.0	9.57	
60 2,6-Dichlorophenol	162	7.289	7.289	0.000	97	210485	10.0	9.21	
62 Hexachlorobutadiene	225	7.353	7.353	0.000	93	207903	10.0	10.6	
64 Caprolactam	113	7.556	7.556	0.000	79	68377	10.0	9.29	
67 4-Chloro-3-methylphenol	107	7.711	7.711	0.000	97	203833	10.0	8.61	
69 2-Methylnaphthalene	142	7.871	7.871	0.000	92	487257	10.0	9.54	
71 1-Methylnaphthalene	142	7.962	7.962	0.000	94	468801	10.0	9.89	
72 Hexachlorocyclopentadiene	237	8.021	8.021	0.000	94	170741	10.0	8.81	
73 1,2,4,5-Tetrachlorobenzene	216	8.026	8.026	0.000	96	256935	10.0	8.71	
74 2,4,6-Trichlorophenol	196	8.122	8.122	0.000	91	157062	10.0	8.80	
75 2,4,5-Trichlorophenol	196	8.154	8.154	0.000	96	168609	10.0	8.80	
76 1,1'-Biphenyl	154	8.293	8.293	0.000	94	589495	10.0	10.5	
77 2-Chloronaphthalene	162	8.314	8.314	0.000	94	472063	10.0	10.2	
79 2-Nitroaniline	65	8.395	8.395	0.000	88	125186	10.0	9.42	
82 Dimethyl phthalate	163	8.550	8.550	0.000	99	519198	10.0	9.49	
83 1,3-Dinitrobenzene	168	8.582	8.582	0.000	91	87119	10.0	11.1	
84 2,6-Dinitrotoluene	165	8.608	8.608	0.000	95	122526	10.0	11.0	
85 Acenaphthylene	152	8.694	8.694	0.000	98	661829	10.0	10.5	
86 3-Nitroaniline	138	8.763	8.763	0.000	93	127736	10.0	11.1	
88 Acenaphthene	153	8.854	8.854	0.000	91	452396	10.0	10.6	
87 2,4-Dinitrophenol	184	8.859	8.859	0.000	85	172675	20.0	19.4	
89 4-Nitrophenol	109	8.902	8.902	0.000	93	171925	20.0	16.1	
91 2,4-Dinitrotoluene	165	8.977	8.977	0.000	94	160267	10.0	10.4	
93 Dibenzofuran	168	9.009	9.009	0.000	97	663612	10.0	10.4	
95 2,3,5,6-Tetrachlorophenol	232	9.078	9.078	0.000	92	138476	10.0	8.44	
96 2,3,4,6-Tetrachlorophenol	232	9.121	9.121	0.000	70	143830	10.0	8.61	
97 2-Naphthylamine	143	9.148	9.148	0.000	98	405634	10.0	10.4	
98 Diethyl phthalate	149	9.191	9.191	0.000	99	493897	10.0	9.40	
99 Hexadecane	57	9.201	9.201	0.000	95	291745	10.0	8.91	
100 4-Chlorophenyl phenyl ethe	204	9.308	9.308	0.000	90	287401	10.0	9.23	
101 4-Nitroaniline	138	9.319	9.319	0.000	80	138580	10.0	11.3	
103 Fluorene	166	9.324	9.324	0.000	94	520043	10.0	10.0	
104 4,6-Dinitro-2-methylphenol	198	9.351	9.351	0.000	91	193786	20.0	20.6	
105 N-Nitrosodiphenylamine	169	9.410	9.410	0.000	98	394514	10.0	11.1	
90 1,2-Diphenylhydrazine	77	9.452	9.452	0.000	98	449437	10.0	9.47	
57 Azobenzene	77	9.452	9.452	0.000	97	449437	10.0	9.44	
110 4-Bromophenyl phenyl ether	248	9.757	9.757	0.000	63	168283	10.0	10.1	
112 Hexachlorobenzene	284	9.832	9.832	0.000	95	167871	10.0	9.60	
113 Atrazine	200	9.880	9.880	0.000	95	111251	10.0	6.64	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
116 Pentachlorophenol	266	10.003	10.003	0.000	94	214466	20.0	17.2	
115 n-Octadecane	57	10.029	10.029	0.000	96	286276	10.0	8.02	
121 Phenanthrene	178	10.200	10.200	0.000	96	802750	10.0	11.2	
122 Anthracene	178	10.248	10.248	0.000	96	810512	10.0	11.3	
124 Carbazole	167	10.382	10.382	0.000	95	704285	10.0	11.2	
126 Di-n-butyl phthalate	149	10.676	10.676	0.000	100	848378	10.0	11.3	
131 Fluoranthene	202	11.402	11.402	0.000	97	893131	10.0	10.2	
132 Benzidine	184	11.530	11.530	0.000	99	465389	10.0	11.8	
133 Pyrene	202	11.685	11.685	0.000	98	894718	10.0	9.98	
138 Butyl benzyl phthalate	149	12.508	12.508	0.000	96	372160	10.0	10.9	
144 3,3'-Dichlorobenzidine	252	13.400	13.400	0.000	73	323072	10.0	9.91	
146 Benzo[a]anthracene	228	13.459	13.459	0.000	98	922480	10.0	10.3	
145 Bis(2-ethylhexyl) phthalat	149	13.464	13.464	0.000	96	515697	10.0	10.9	
147 Chrysene	228	13.528	13.528	0.000	96	889249	10.0	10.6	
150 Di-n-octyl phthalate	149	14.720	14.720	0.000	99	853518	10.0	10.8	
151 7,12-Dimethylbenz(a)anthra	256	15.505	15.505	0.000	89	396810	10.0	9.77	
152 Benzo[b]fluoranthene	252	15.510	15.510	0.000	97	887332	10.0	9.91	
153 Benzo[k]fluoranthene	252	15.569	15.569	0.000	98	882702	10.0	10.9	
219 Benzo[e]pyrene	252	16.071	16.071	0.000	96	805862	10.0	10.5	
154 Benzo[a]pyrene	252	16.173	16.173	0.000	75	823905	10.0	11.0	
157 Indeno[1,2,3-cd]pyrene	276	18.416	18.416	0.000	99	900162	10.0	10.5	
158 Dibenz(a,h)anthracene	278	18.459	18.459	0.000	87	765272	10.0	10.5	
159 Benzo[g,h,i]perylene	276	18.945	18.945	0.000	98	750883	10.0	10.6	
S 199 Total Cresols	108				0		20.0	19.2	
S 197 Methyl Phenols,Total	108				0		20.0	19.2	

Reagents:

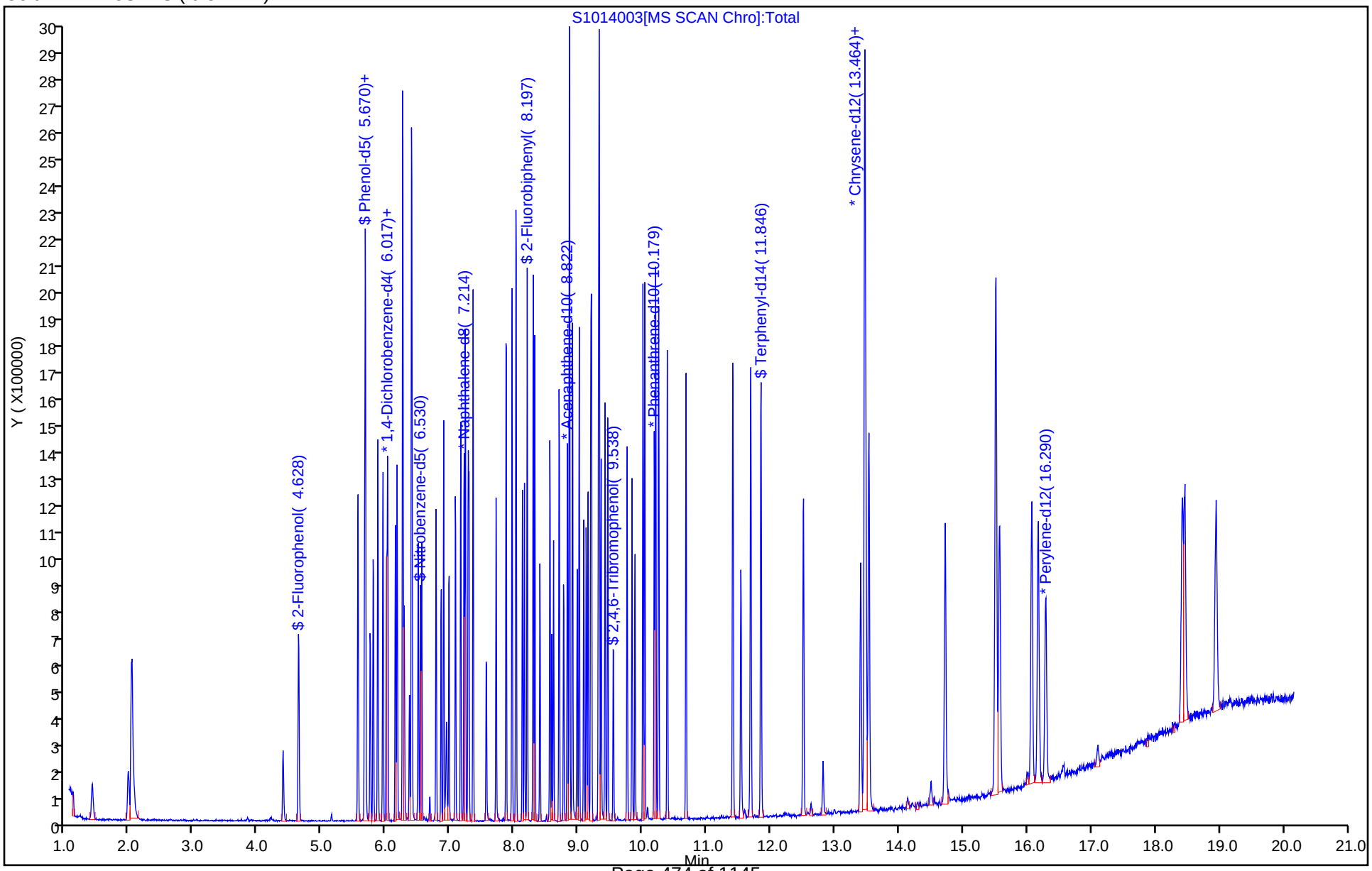
SVTAPSTD10i_00298 Amount Added: 1.00 Units: mL

Report Date: 14-Oct-2018 14:09:48 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014003.D				
Injection Date:	14-Oct-2018 13:19:30	Instrument ID:	CH71	Operator ID:	001562
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416002.D				
Lims ID:	DFTPP				
Client ID:					
Sample Type:	DFTPP				
Inject. Date:	16-Apr-2018 09:18:30	ALS Bottle#:	1	Worklist Smp#:	2
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Sample Info:	180-0021340-002				
Misc. Info.:	DFTPP				
Operator ID:	001562	Instrument ID:	CH71		
Method:	\\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\BNA_CH71.m				
Limit Group:	BNA 8270D ICAL				
Last Update:	17-Apr-2018 09:49:44	Calib Date:	16-Apr-2018 17:33:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416021.D				
Column 1 :	Rxi-5SilMS (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK019				

First Level Reviewer: fergusond Date: 16-Apr-2018 10:01:01

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
189 Pentachlorophenol_T	266	5.476	5.476	0.000	0	868805	NR	NR	
190 DFTPP									
191 Benzidine_T	184	8.115	8.115	0.000	100	5613569	NR	NR	
192 4,4'-DDE	246		9.043					ND	
193 4,4'-DDD	235	9.179	9.179	0.000	1	0		NR	a
194 4,4'-DDT	235	9.696	9.696	0.000	97	2567267	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
Review Flags
a - User Assigned ID

Reagents:

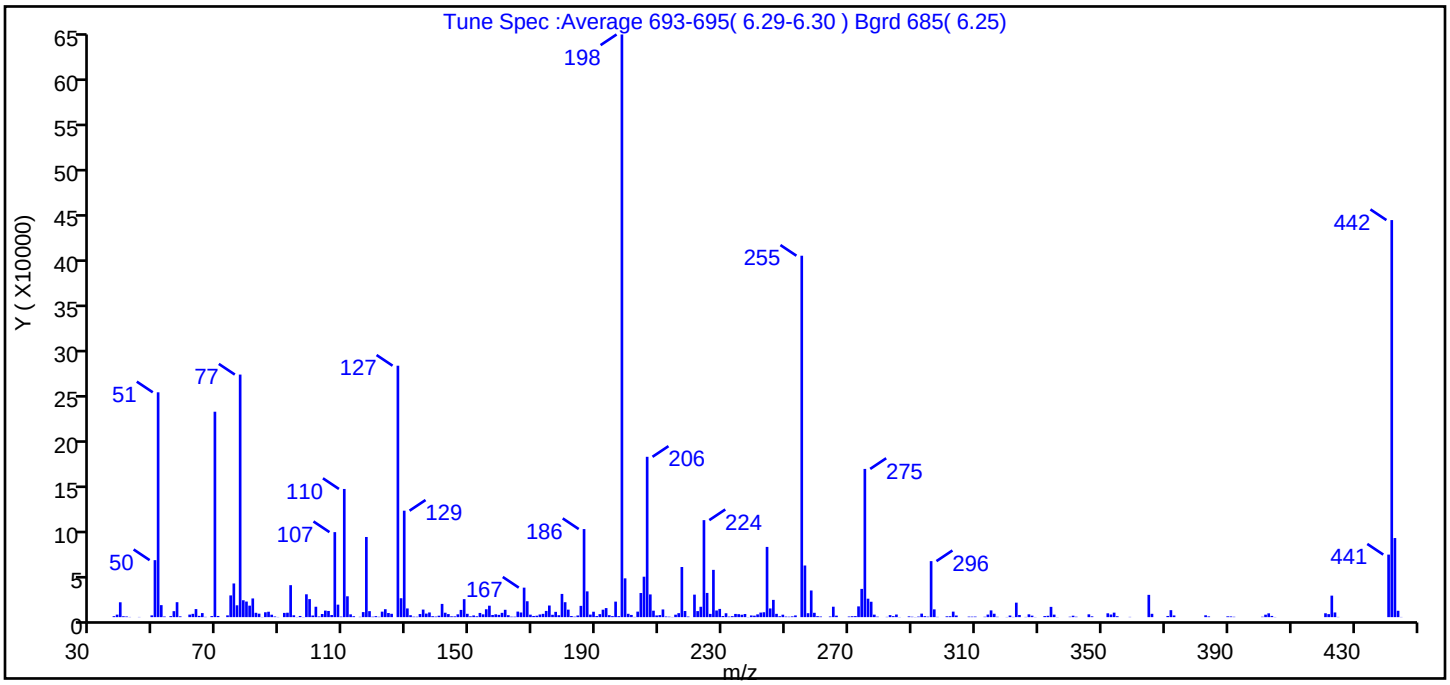
SVDFTPP50i_00031 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416002.D				
Injection Date:	16-Apr-2018 09:18:30	Instrument ID:	CH71		
Lims ID:	DFTPP				
Client ID:					
Operator ID:	001562	ALS Bottle#:	1	Worklist Smp#:	2
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Tune Method:	DFTPP Method 8270				

190 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base peak, 100% relative abundance	100.0
51	30-60% of mass 198	38.6
68	<2% of mass 69	0.2 (0.5)
69	Present	35.3
70	<2% of mass 69	0.2 (0.6)
127	40-60% of mass 198	43.2
197	<1% of mass 198	0.2
199	5-9% of mass 198	6.7
275	10-30% of mass 198	25.4
365	>1% of mass 198	3.8
441	Present but less than mass 443	10.7 (79.1)
442	>40% of mass 198	68.1
443	17-23% of mass 442	13.6 (19.9)

Data File: \\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416002.D\BNA_CH71.rslt\spectra.d
Injection Date: 16-Apr-2018 09:18:30
Spectrum: Tune Spec :Average 693-695(6.29-6.30) Bgrd 685(6.25)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 298

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	1076	125.00	3685	201.00	2428	285.00	2900
38.00	2767	127.00	277696	202.00	254	286.00	174
39.00	16424	128.00	20888	203.00	6091	289.00	854
40.00	997	129.00	117568	204.00	26648	290.00	454
41.00	757	130.00	9620	205.00	44664	291.00	169
42.00	220	131.00	2137	206.00	177088	292.00	622
45.00	213	132.00	531	207.00	25088	293.00	3893
49.00	1946	133.00	457	208.00	7115	294.00	1058
50.00	62952	134.00	3447	209.00	1878	295.00	553
51.00	248320	135.00	8362	210.00	2259	296.00	61864
52.00	13262	136.00	3915	211.00	8501	297.00	8592
53.00	710	137.00	5184	212.00	693	298.00	302
55.00	1139	138.00	1036	213.00	498	301.00	909
56.00	6617	139.00	617	214.00	191	302.00	985
57.00	16520	140.00	1580	215.00	2711	303.00	6093
58.00	859	141.00	14621	216.00	4412	304.00	1784
61.00	2810	142.00	4882	217.00	55368	308.00	599
62.00	3641	143.00	3373	218.00	6755	309.00	539
63.00	8911	144.00	925	219.00	659	310.00	611
64.00	1394	145.00	846	221.00	24864	313.00	427
65.00	4488	146.00	3117	222.00	6686	314.00	2830
66.00	314	147.00	7983	223.00	11446	315.00	7450
68.00	1149	148.00	19864	224.00	107136	316.00	3760
69.00	226880	149.00	3689	225.00	26752	317.00	404
70.00	1299	150.00	922	226.00	3586	320.00	189
73.00	1971	151.00	1869	227.00	52224	321.00	1782
74.00	24008	152.00	935	228.00	7367	322.00	241
75.00	37200	153.00	4643	229.00	9091	323.00	15999
76.00	13075	154.00	3107	230.00	1220	324.00	2383
77.00	267904	155.00	8709	231.00	4305	326.00	238
78.00	18672	156.00	12639	232.00	606	327.00	3119
79.00	17216	157.00	2392	233.00	1097	328.00	1625
80.00	12693	158.00	3135	234.00	3549	329.00	190

Report Date: 17-Apr-2018 09:49:46 Chrom Revision: 2.2 13-Mar-2018 08:45:20
Data File: \\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416002.D\BNA_CH71.rslt\spectra.d
Injection Date: 16-Apr-2018 09:18:30
Spectrum: Tune Spec :Average 693-695(6.29-6.30) Bgrd 685(6.25)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 298

m/z	Y	m/z	Y	m/z	Y	m/z	Y
81.00	20648	159.00	2517	235.00	3275	332.00	1177
82.00	4807	160.00	4746	236.00	2660	333.00	1481
83.00	3834	161.00	8120	237.00	3480	334.00	11338
84.00	175	162.00	2146	238.00	174	335.00	2771
85.00	5382	163.00	549	239.00	1865	336.00	169
86.00	5975	164.00	508	240.00	1629	340.00	460
87.00	2672	165.00	6138	241.00	3046	341.00	1580
88.00	728	166.00	5135	242.00	5040	342.00	468
89.00	194	167.00	32584	243.00	5415	346.00	3114
91.00	4688	168.00	17560	244.00	77568	347.00	895
92.00	4888	169.00	2736	245.00	9609	352.00	4255
93.00	35320	170.00	1300	246.00	19064	353.00	2905
94.00	2054	171.00	1584	247.00	3656	354.00	4967
95.00	198	172.00	2948	248.00	971	355.00	987
96.00	1303	173.00	3623	249.00	2711	359.00	273
97.00	167	174.00	6864	250.00	630	365.00	24616
98.00	25248	175.00	12853	251.00	494	366.00	3684
99.00	19912	176.00	2587	252.00	844	371.00	1305
100.00	1780	177.00	5856	253.00	1881	372.00	7698
101.00	11489	178.00	2111	255.00	399168	373.00	1853
102.00	701	179.00	25648	256.00	57032	383.00	2049
103.00	3472	180.00	16504	257.00	4355	384.00	791
104.00	7220	181.00	8285	258.00	29448	390.00	900
105.00	6816	182.00	1232	259.00	4807	391.00	768
106.00	2318	183.00	507	260.00	1086	392.00	407
107.00	93896	184.00	1836	261.00	666	401.00	460
108.00	13803	185.00	12454	264.00	706	402.00	2724
109.00	601	186.00	97280	265.00	11513	403.00	4222
110.00	141568	187.00	28472	266.00	1622	404.00	1346
111.00	23032	188.00	2817	270.00	698	405.00	185
112.00	3078	189.00	5978	271.00	1025	421.00	4278
113.00	1005	190.00	1171	272.00	1144	422.00	3326
115.00	370	191.00	3307	273.00	11893	423.00	23760
116.00	5574	192.00	8227	274.00	31192	424.00	5161

Report Date: 17-Apr-2018 09:49:46 Chrom Revision: 2.2 13-Mar-2018 08:45:20
Data File: \\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416002.D\BNA_CH71.rslt\spectra.d
Injection Date: 16-Apr-2018 09:18:30
Spectrum: Tune Spec :Average 693-695(6.29-6.30) Bgrd 685(6.25)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 298

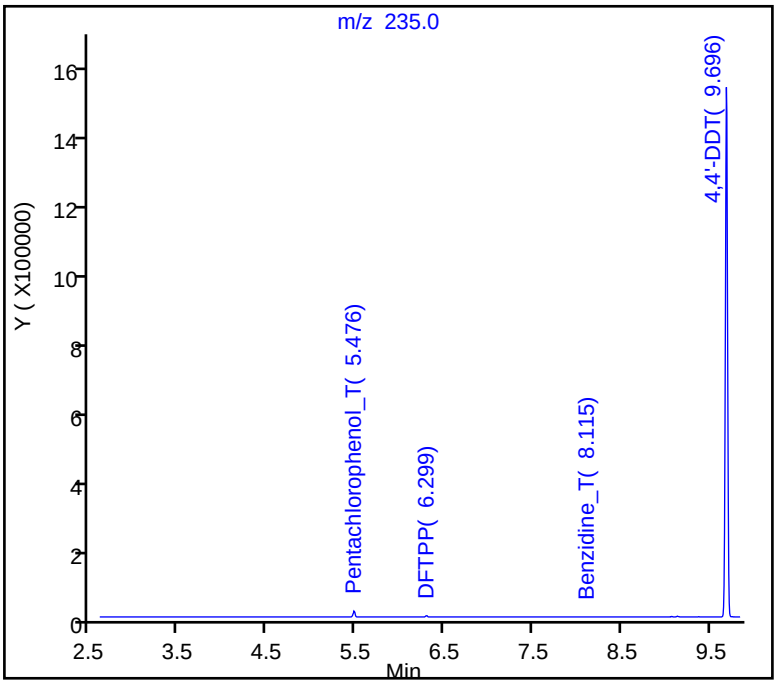
m/z	Y	m/z	Y	m/z	Y	m/z	Y
117.00	88536	193.00	9999	275.00	163712	425.00	233
118.00	6621	194.00	2154	276.00	20376	441.00	69072
119.00	515	195.00	1131	277.00	17000	442.00	438528
120.00	1118	196.00	17144	278.00	2745	443.00	87360
121.00	399	197.00	1060	279.00	554	444.00	7047
122.00	6072	198.00	643520	282.00	288	445.00	207
123.00	8760	199.00	42848	283.00	2258		
124.00	4539	200.00	3685	284.00	1127		

Breakdown Report

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416002.D				
Injection Date:	16-Apr-2018 09:18:30	Instrument ID:	CH71		
Lims ID:	DFTPP				
Client ID:					
Operator ID:	001562	ALS Bottle#:	1	Worklist Smp#:	2
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		

194 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

194 4,4'-DDT, Area = 2567267
192 4,4'-DDE, Area = 0
193 4,4'-DDD, Area = 0

%Breakdown: 0.00%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Pittsburgh

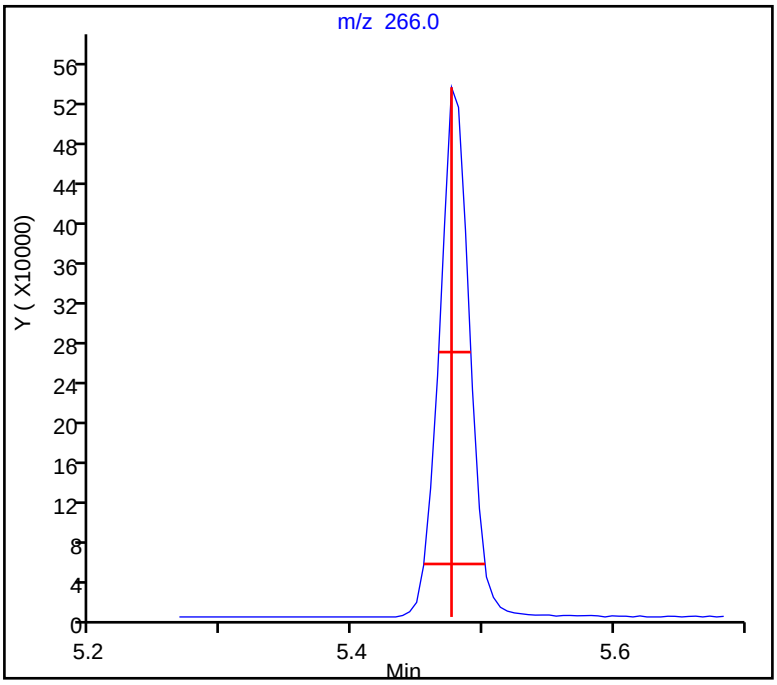
Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416002.D				
Injection Date:	16-Apr-2018 09:18:30	Instrument ID:	CH71		
Lims ID:	DFTPP				
Client ID:					
Operator ID:	001562	ALS Bottle#:	1	Worklist Smp#:	2
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		

189 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.026 (min.)
Front Width = 0.021 (min.)

Tailing Factor = 1.2, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Pittsburgh

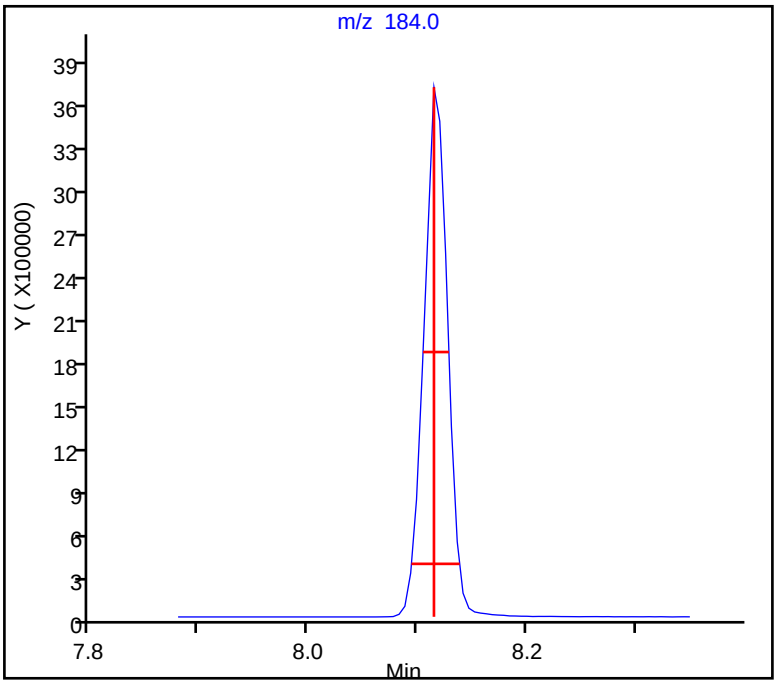
Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416002.D				
Injection Date:	16-Apr-2018 09:18:30	Instrument ID:	CH71		
Lims ID:	DFTPP				
Client ID:					
Operator ID:	001562	ALS Bottle#:	1	Worklist Smp#:	2
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		

191 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.024 (min.)
Front Width = 0.021 (min.)

Tailing Factor = 1.1, Max. Tailing < 2.00
Passed



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013003.D				
Lims ID:	DFTPP				
Client ID:					
Sample Type:	DFTPP				
Inject. Date:	13-Oct-2018 13:10:30	ALS Bottle#:	1	Worklist Smp#:	3
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Sample Info:	180-0024076-003				
Misc. Info.:	DFTPP				
Operator ID:	001562	Instrument ID:	CH71		
Method:	\\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\BNA_CH71.m				
Limit Group:	BNA 8270D ICAL				
Last Update:	13-Oct-2018 14:48:01	Calib Date:	16-Apr-2018 17:33:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416021.D				
Column 1 :	Rxi-5SilMS (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK015				
First Level Reviewer: fergusond		Date:	13-Oct-2018 13:25:23		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
189 Pentachlorophenol_T	266	5.425	5.425	0.000	95	756318	NR	NR	
190 DFTPP									
191 Benzidine_T	184	8.026	8.026	0.000	99	4259191	NR	NR	
192 4,4'-DDE	246		8.398					ND	
193 4,4'-DDD	235	9.031	9.031	0.000	1	3435		NR	
194 4,4'-DDT	235	9.570	9.570	0.000	98	2109592	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

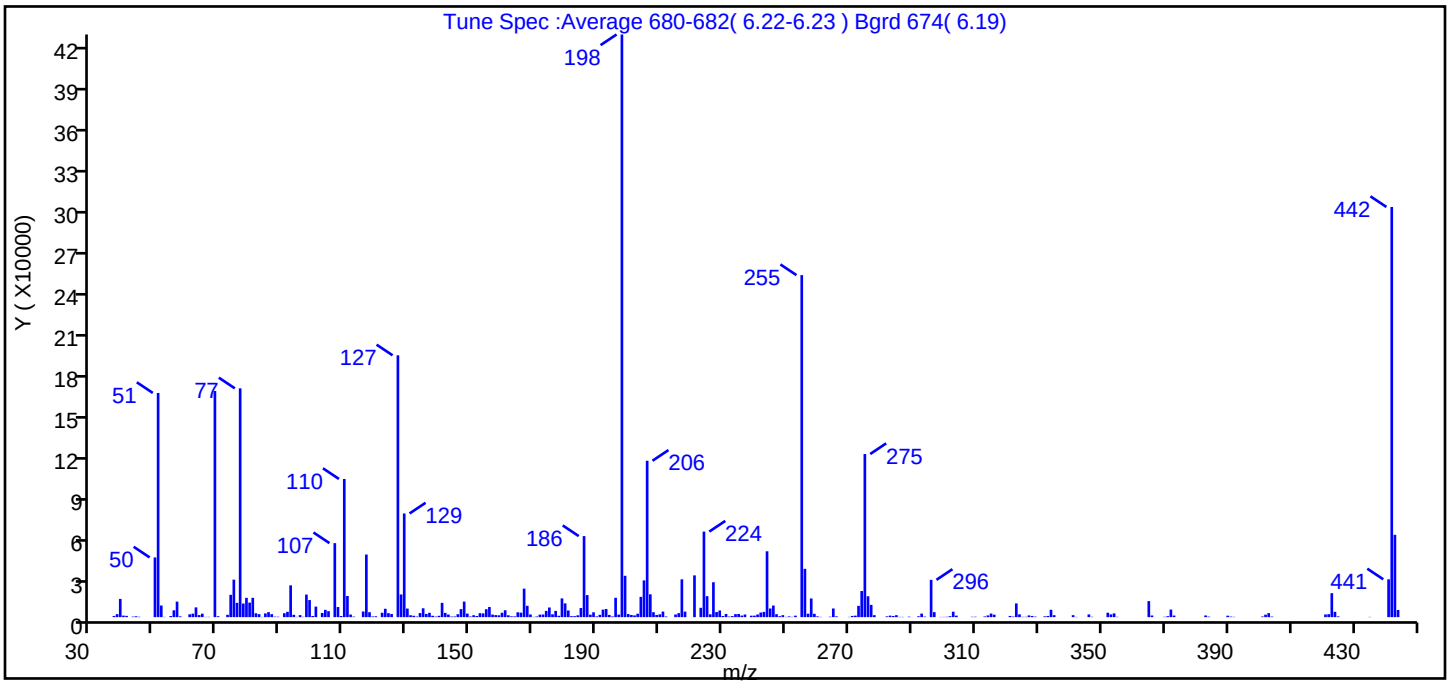
SVDFTPP50i_00032 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013003.D				
Injection Date:	13-Oct-2018 13:10:30	Instrument ID:	CH71		
Lims ID:	DFTPP				
Client ID:					
Operator ID:	001562	ALS Bottle#:	1	Worklist Smp#:	3
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Tune Method:	DFTPP Method 8270				

190 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base peak, 100% relative abundance	100.0
51	30-60% of mass 198	38.5
68	<2% of mass 69	0.0 (0.0)
69	Present	38.8
70	<2% of mass 69	0.2 (0.4)
127	40-60% of mass 198	44.9
197	<1% of mass 198	0.4
199	5-9% of mass 198	7.1
275	10-30% of mass 198	28.0
365	>1% of mass 198	2.8
441	Present but less than mass 443	6.5 (45.9)
442	>40% of mass 198	70.4
443	17-23% of mass 442	14.1 (20.1)

Data File: \\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013003.D\BNA_CH71.rslt\spectra.d
Injection Date: 13-Oct-2018 13:10:30
Spectrum: Tune Spec :Average 680-682(6.22-6.23) Bgrd 674(6.19)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 282

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	887	125.00	2307	197.00	1851	283.00	1119
38.00	2188	127.00	192832	198.00	429120	284.00	835
39.00	13422	128.00	16712	199.00	30448	285.00	1439
40.00	1126	129.00	76344	200.00	2284	286.00	191
41.00	941	130.00	6327	201.00	1573	287.00	195
43.00	372	131.00	1402	202.00	1275	289.00	361
44.00	660	132.00	1027	203.00	2525	292.00	632
45.00	270	133.00	435	204.00	14946	293.00	2609
50.00	43984	134.00	2990	205.00	27072	294.00	377
51.00	165120	135.00	6518	206.00	115184	296.00	27472
52.00	8580	136.00	2339	207.00	16824	297.00	3683
53.00	187	137.00	3192	208.00	3654	299.00	170
55.00	811	138.00	1010	209.00	1629	300.00	181
56.00	5041	139.00	418	210.00	2066	301.00	263
57.00	11441	140.00	994	211.00	4109	302.00	704
58.00	574	141.00	10515	212.00	485	303.00	4007
61.00	2091	142.00	3142	215.00	1959	304.00	1120
62.00	2579	143.00	1915	216.00	2938	309.00	267
63.00	7188	144.00	434	217.00	27848	310.00	305
64.00	1506	145.00	488	218.00	4088	313.00	510
65.00	2557	146.00	2147	221.00	30768	314.00	1267
66.00	186	147.00	5915	223.00	6883	315.00	2648
67.00	216	148.00	11455	224.00	63008	316.00	1800
69.00	166528	149.00	2613	225.00	15453	321.00	888
70.00	670	150.00	461	226.00	2089	322.00	435
73.00	1746	151.00	1413	227.00	25704	323.00	10109
74.00	16424	152.00	881	228.00	3753	324.00	2066
75.00	27616	153.00	2915	229.00	4912	325.00	235
76.00	10524	154.00	2755	230.00	836	326.00	243
77.00	168512	155.00	5835	231.00	2343	327.00	1270
78.00	10017	156.00	7454	232.00	445	328.00	887
79.00	14223	157.00	1890	233.00	782	329.00	386
80.00	10697	158.00	1514	234.00	2239	332.00	579

Report Date: 13-Oct-2018 14:48:03 Chrom Revision: 2.3 19-Jul-2018 15:14:50
Data File: \\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013003.D\BNA_CH71.rslt\spectra.d
Injection Date: 13-Oct-2018 13:10:30
Spectrum: Tune Spec :Average 680-682(6.22-6.23) Bgrd 674(6.19)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 282

m/z	Y	m/z	Y	m/z	Y	m/z	Y
81.00	14227	159.00	1359	235.00	2316	333.00	878
82.00	2847	160.00	3222	236.00	1164	334.00	5421
83.00	2212	161.00	5084	237.00	1932	335.00	1441
84.00	169	162.00	1365	239.00	1067	341.00	1460
85.00	2744	163.00	592	240.00	1107	342.00	174
86.00	3696	164.00	554	241.00	1960	346.00	2001
87.00	2189	165.00	3567	242.00	3388	347.00	262
88.00	355	166.00	3299	243.00	3885	352.00	3249
89.00	318	167.00	20992	244.00	48512	353.00	2021
91.00	2897	168.00	8349	245.00	6385	354.00	2771
92.00	3923	169.00	1966	246.00	8549	355.00	227
93.00	23416	170.00	187	247.00	2180	365.00	11810
94.00	1732	171.00	474	248.00	685	366.00	1217
95.00	180	172.00	1858	249.00	1447	370.00	258
96.00	1504	173.00	1953	250.00	175	371.00	714
97.00	234	174.00	4609	251.00	547	372.00	5575
98.00	16616	175.00	7108	252.00	223	373.00	1155
99.00	12570	176.00	2102	253.00	1082	383.00	1245
100.00	859	177.00	4602	255.00	251904	384.00	397
101.00	7771	178.00	1016	256.00	35576	390.00	1055
103.00	3062	179.00	13810	257.00	2555	391.00	398
104.00	5346	180.00	10126	258.00	13753	392.00	213
105.00	4387	181.00	4906	259.00	2446	401.00	479
107.00	54504	182.00	739	260.00	567	402.00	1829
108.00	7453	183.00	744	261.00	188	403.00	2946
109.00	839	184.00	1330	264.00	341	404.00	420
110.00	101768	185.00	6716	265.00	6374	421.00	1971
111.00	15573	186.00	59688	266.00	561	422.00	2173
112.00	1917	187.00	16242	270.00	192	423.00	17648
113.00	395	188.00	1823	271.00	907	424.00	3913
116.00	4164	189.00	3574	272.00	1103	425.00	565
117.00	46128	190.00	527	273.00	8307	435.00	195
118.00	3638	191.00	1721	274.00	19240	441.00	27856
119.00	491	192.00	5543	275.00	120136	442.00	302080

Report Date: 13-Oct-2018 14:48:03 Chrom Revision: 2.3 19-Jul-2018 15:14:50
Data File: \\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013003.D\BNA_CH71.rslt\spectra.d
Injection Date: 13-Oct-2018 13:10:30
Spectrum: Tune Spec :Average 680-682(6.22-6.23) Bgrd 674(6.19)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 282

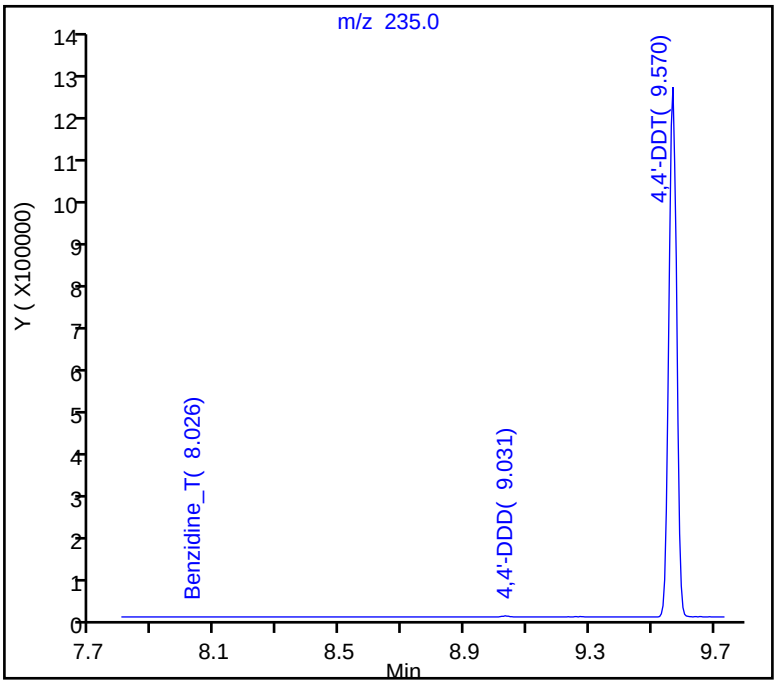
m/z	Y	m/z	Y	m/z	Y	m/z	Y
120.00	645	193.00	6015	276.00	15386	443.00	60624
122.00	3234	194.00	1634	277.00	9040	444.00	5302
123.00	6172	195.00	510	278.00	1443		
124.00	2951	196.00	14249	282.00	572		

Breakdown Report

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013003.D				
Injection Date:	13-Oct-2018 13:10:30	Instrument ID:	CH71		
Lims ID:	DFTPP				
Client ID:					
Operator ID:	001562	ALS Bottle#:	1	Worklist Smp#:	3
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		

194 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

194 4,4'-DDT, Area = 2109592
192 4,4'-DDE, Area = 0
193 4,4'-DDD, Area = 3435

%Breakdown: 0.16%, Max Limit: 20.00%
Passed

Report Date: 13-Oct-2018 14:48:02 Chrom Revision: 2.3 19-Jul-2018 15:14:50

Peak Tailing Report

TestAmerica Pittsburgh

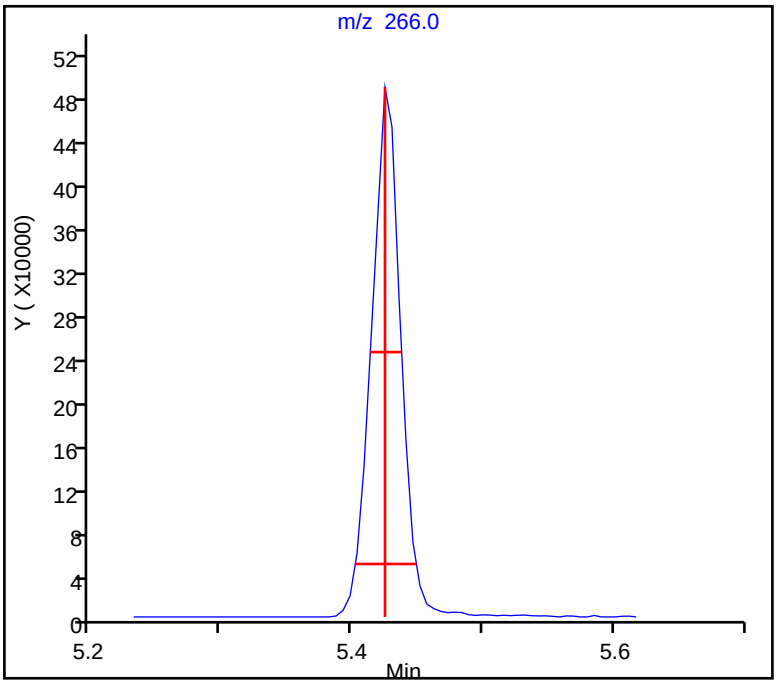
Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013003.D				
Injection Date:	13-Oct-2018 13:10:30	Instrument ID:	CH71		
Lims ID:	DFTPP				
Client ID:					
Operator ID:	001562	ALS Bottle#:	1	Worklist Smp#:	3
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		

189 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.024 (min.)
Front Width = 0.023 (min.)

Tailing Factor = 1.1, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Pittsburgh

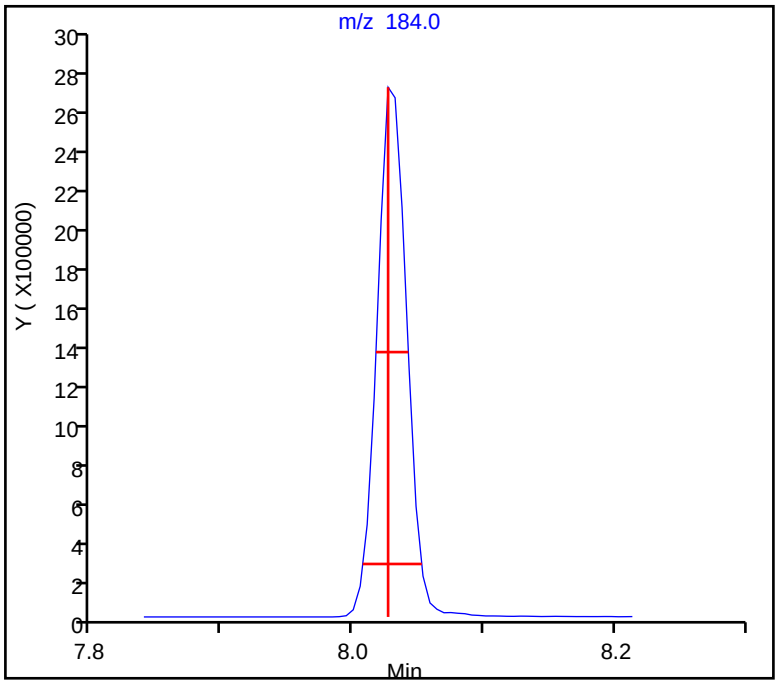
Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013003.D				
Injection Date:	13-Oct-2018 13:10:30	Instrument ID:	CH71		
Lims ID:	DFTPP				
Client ID:					
Operator ID:	001562	ALS Bottle#:	1	Worklist Smp#:	3
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		

191 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.026 (min.)
Front Width = 0.019 (min.)

Tailing Factor = 1.3, Max. Tailing < 2.00
Passed



TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014002.D				
Lims ID:	DFTPP				
Client ID:					
Sample Type:	DFTPP				
Inject. Date:	14-Oct-2018 13:01:30	ALS Bottle#:	1	Worklist Smp#:	2
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Sample Info:	180-0024080-002				
Misc. Info.:	DFTPP				
Operator ID:	001562	Instrument ID:	CH71		
Method:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\BNA_CH71.m				
Limit Group:	BNA 8270D ICAL				
Last Update:	14-Oct-2018 14:09:44	Calib Date:	16-Apr-2018 17:33:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416021.D				
Column 1 :	Rxi-5SilMS (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK002				
First Level Reviewer: fergusond		Date:	14-Oct-2018 13:15:07		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
189 Pentachlorophenol_T	266	5.436	5.436	0.000	94	701095	NR	NR	
190 DFTPP									
191 Benzidine_T	184	8.043	8.043	0.000	99	4586607	NR	NR	
192 4,4'-DDE	246		8.398					ND	
193 4,4'-DDD	235	9.042	9.042	0.000	1	4991		NR	
194 4,4'-DDT	235	9.576	9.576	0.000	98	2254528	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

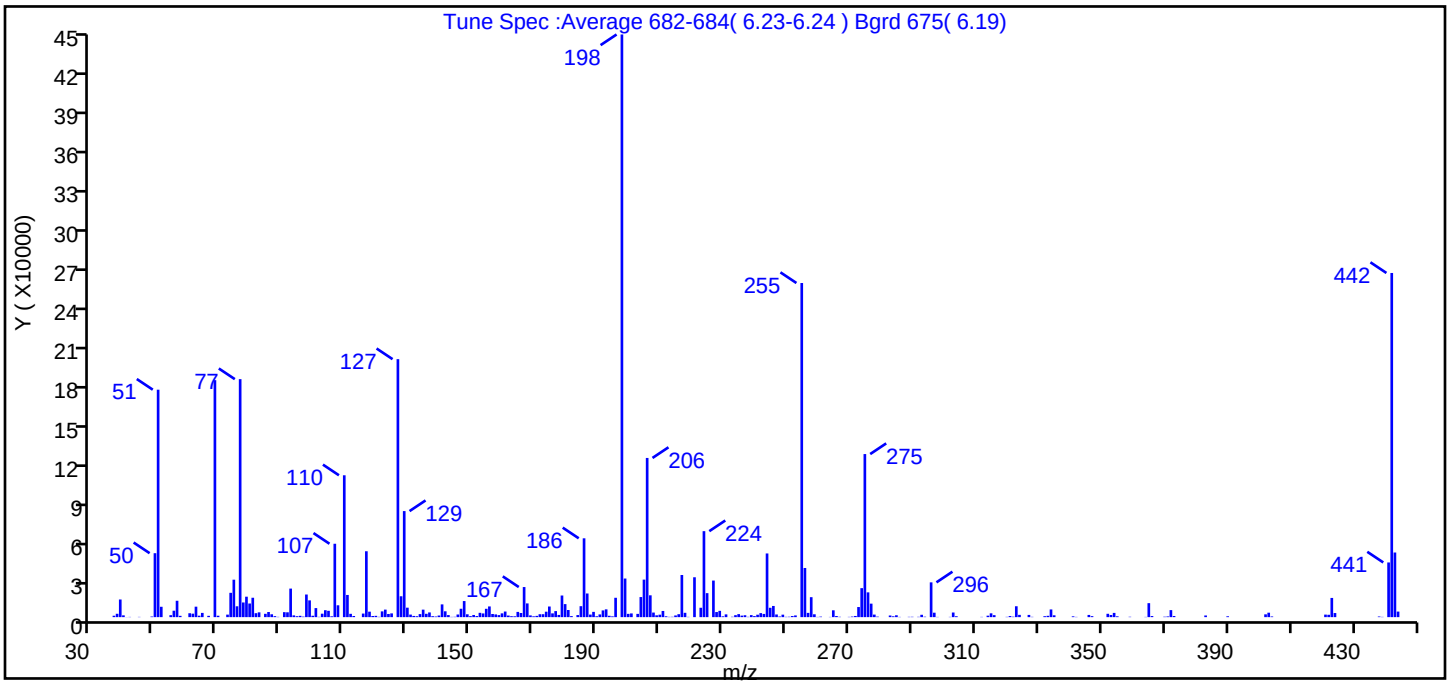
SVDFTPP50i_00032 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014002.D				
Injection Date:	14-Oct-2018 13:01:30	Instrument ID:	CH71		
Lims ID:	DFTPP				
Client ID:					
Operator ID:	001562	ALS Bottle#:	1	Worklist Smp#:	2
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Tune Method:	DFTPP Method 8270				

190 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base peak, 100% relative abundance	100.0
51	30-60% of mass 198	39.0
68	<2% of mass 69	0.0 (0.0)
69	Present	40.7
70	<2% of mass 69	0.2 (0.6)
127	40-60% of mass 198	44.3
197	<1% of mass 198	0.0
199	5-9% of mass 198	6.6
275	10-30% of mass 198	28.0
365	>1% of mass 198	2.4
441	Present but less than mass 443	9.4 (84.6)
442	>40% of mass 198	59.1
443	17-23% of mass 442	11.1 (18.8)

Data File: \\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014002.D\BNA_CH71.rslt\spectra.d
Injection Date: 14-Oct-2018 13:01:30
Spectrum: Tune Spec :Average 682-684(6.23-6.24) Bgrd 675(6.19)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 273

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	1076	124.00	2403	195.00	581	275.00	123760
38.00	2555	125.00	2851	196.00	14694	276.00	18808
39.00	13393	127.00	195776	198.00	442176	277.00	10245
40.00	1361	128.00	15846	199.00	29304	278.00	1936
41.00	69	129.00	80480	200.00	2494	279.00	398
42.00	174	130.00	7185	201.00	2817	283.00	1246
45.00	191	131.00	1940	203.00	2484	284.00	638
49.00	468	132.00	918	204.00	15240	285.00	1426
50.00	48528	133.00	699	205.00	28480	286.00	179
51.00	172608	134.00	2320	206.00	120808	289.00	232
52.00	7862	135.00	5690	207.00	16560	290.00	272
55.00	1492	136.00	2527	208.00	3480	292.00	247
56.00	4872	137.00	3573	209.00	1395	293.00	1791
57.00	12426	138.00	718	210.00	1865	294.00	334
58.00	998	139.00	473	211.00	4692	296.00	26400
61.00	2959	140.00	1222	212.00	638	297.00	3372
62.00	2642	141.00	9681	213.00	219	298.00	169
63.00	7943	142.00	4437	214.00	265	302.00	201
64.00	1100	143.00	1568	215.00	1282	303.00	3516
65.00	3214	144.00	201	216.00	2230	304.00	678
67.00	1001	145.00	260	217.00	31976	312.00	192
69.00	179840	146.00	2000	218.00	3293	314.00	1107
70.00	1079	147.00	6372	219.00	201	315.00	2900
73.00	1918	148.00	12207	221.00	30264	316.00	1508
74.00	18456	149.00	2163	223.00	7119	320.00	210
75.00	28424	150.00	776	224.00	65248	321.00	822
76.00	8242	151.00	1644	225.00	18216	322.00	339
77.00	180608	152.00	822	227.00	27760	323.00	8268
78.00	11131	153.00	3275	228.00	3867	324.00	1733
79.00	15515	154.00	2814	229.00	4780	327.00	1685
80.00	10349	155.00	6332	230.00	611	328.00	229
81.00	14721	156.00	8127	231.00	2102	332.00	707
82.00	3005	157.00	2394	233.00	282	333.00	1012

Report Date: 14-Oct-2018 14:09:45 Chrom Revision: 2.3 19-Jul-2018 15:14:50
Data File: \\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014002.D\BNA_CH71.rslt\spectra.d
Injection Date: 14-Oct-2018 13:01:30
Spectrum: Tune Spec :Average 682-684(6.23-6.24) Bgrd 675(6.19)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 273

m/z	Y	m/z	Y	m/z	Y	m/z	Y
83.00	3644	158.00	2076	234.00	1490	334.00	5844
85.00	2527	159.00	1542	235.00	2291	335.00	1398
86.00	3888	160.00	2874	236.00	1160	341.00	610
87.00	2177	161.00	4254	237.00	1440	342.00	183
88.00	753	162.00	1211	238.00	236	346.00	1677
89.00	209	163.00	714	239.00	1536	347.00	751
91.00	3774	164.00	630	240.00	786	352.00	2551
92.00	3668	165.00	3975	241.00	1837	353.00	1618
93.00	21664	166.00	3138	242.00	3055	354.00	3223
94.00	1340	167.00	22840	243.00	2433	355.00	618
95.00	728	168.00	10420	244.00	48328	359.00	274
96.00	1005	169.00	1320	245.00	7103	364.00	173
97.00	386	170.00	621	246.00	8486	365.00	10611
98.00	17176	171.00	965	247.00	2022	366.00	833
99.00	12730	172.00	2216	248.00	484	370.00	324
100.00	1049	173.00	2239	249.00	1883	371.00	523
101.00	6866	174.00	4135	250.00	232	372.00	5330
102.00	224	175.00	8076	251.00	307	373.00	856
103.00	2624	176.00	2868	252.00	844	383.00	1265
104.00	5257	177.00	4585	253.00	1292	390.00	650
105.00	4811	178.00	1680	255.00	253568	402.00	2132
106.00	627	179.00	16416	256.00	37304	403.00	3374
107.00	55696	180.00	9895	257.00	3234	404.00	514
108.00	8995	181.00	5407	258.00	15152	421.00	1926
110.00	107656	182.00	788	259.00	2172	422.00	1793
111.00	16840	184.00	1581	260.00	175	423.00	14582
112.00	2518	185.00	8324	261.00	393	424.00	3112
113.00	858	186.00	59824	264.00	167	438.00	494
116.00	2718	187.00	17952	265.00	5191	439.00	195
117.00	50008	188.00	1953	266.00	837	441.00	41504
118.00	4162	189.00	4001	267.00	257	442.00	261184
119.00	876	190.00	654	270.00	202	443.00	49048
120.00	994	191.00	2059	271.00	441	444.00	4220
121.00	235	192.00	5107	272.00	889		

Report Date: 14-Oct-2018 14:09:45 Chrom Revision: 2.3 19-Jul-2018 15:14:50
Data File: \\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014002.D\BNA_CH71.rslt\spectra.d
Injection Date: 14-Oct-2018 13:01:30
Spectrum: Tune Spec :Average 682-684(6.23-6.24) Bgrd 675(6.19)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 273

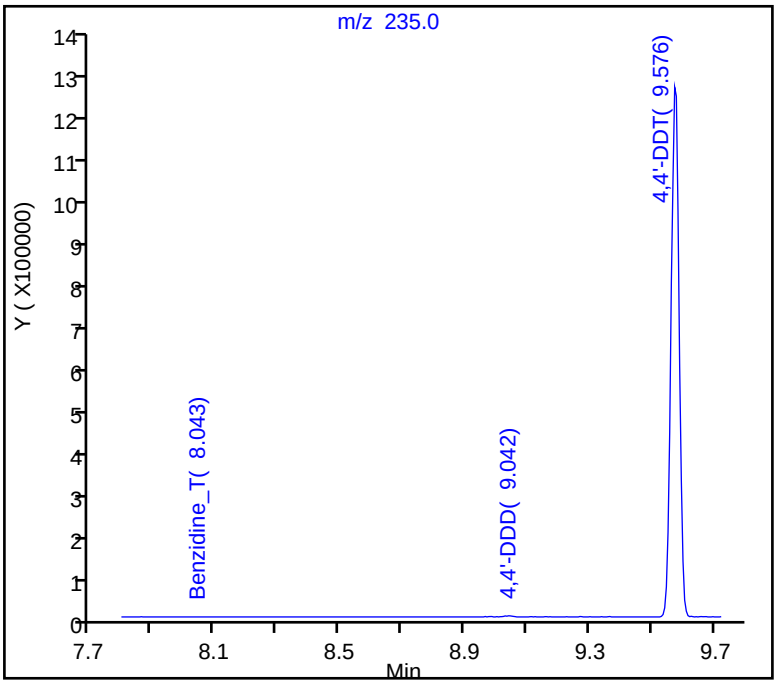
m/z	Y	m/z	Y	m/z	Y	m/z	Y
122.00	4377	193.00	5917	273.00	7669		
123.00	5716	194.00	1031	274.00	22000		

Breakdown Report

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014002.D				
Injection Date:	14-Oct-2018 13:01:30	Instrument ID:	CH71		
Lims ID:	DFTPP				
Client ID:					
Operator ID:	001562	ALS Bottle#:	1	Worklist Smp#:	2
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		

194 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

194 4,4'-DDT, Area = 2254528
192 4,4'-DDE, Area = 0
193 4,4'-DDD, Area = 4991

%Breakdown: 0.22%, Max Limit: 20.00%
Passed

Report Date: 14-Oct-2018 14:09:45 Chrom Revision: 2.3 19-Jul-2018 15:14:50

Peak Tailing Report

TestAmerica Pittsburgh

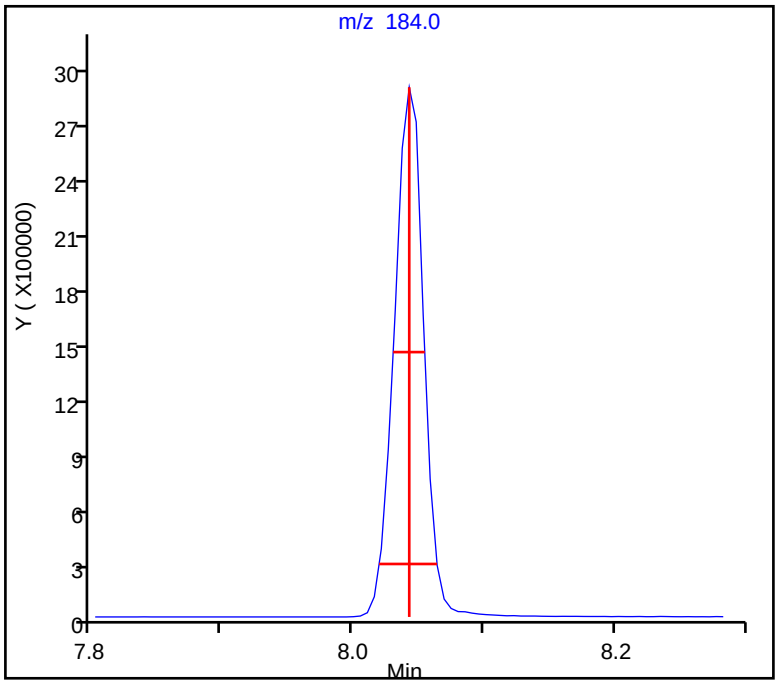
Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014002.D				
Injection Date:	14-Oct-2018 13:01:30	Instrument ID:	CH71		
Lims ID:	DFTPP				
Client ID:					
Operator ID:	001562	ALS Bottle#:	1	Worklist Smp#:	2
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		

191 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.021 (min.)
Front Width = 0.023 (min.)

Tailing Factor = 0.9, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Pittsburgh

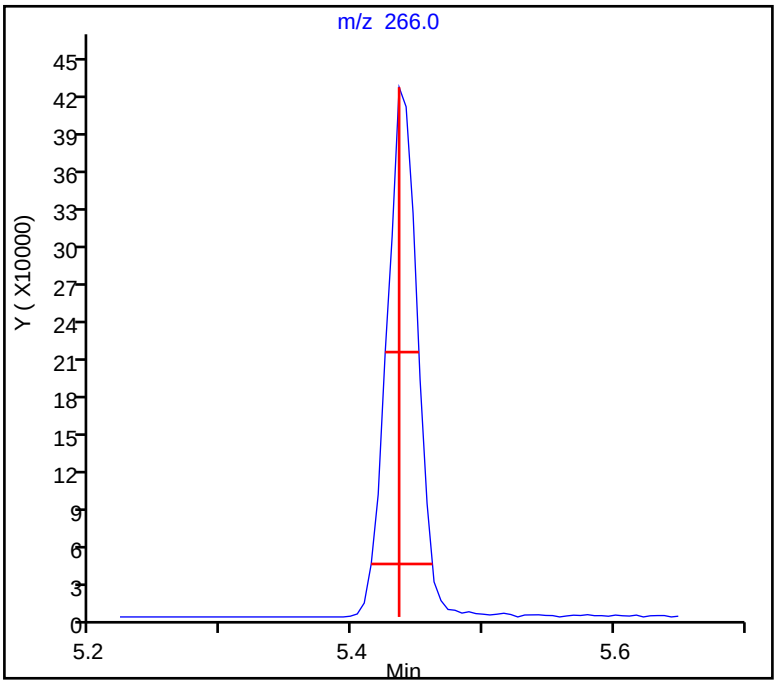
Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181014-24080.b\S1014002.D				
Injection Date:	14-Oct-2018 13:01:30	Instrument ID:	CH71		
Lims ID:	DFTPP				
Client ID:					
Operator ID:	001562	ALS Bottle#:	1	Worklist Smp#:	2
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		

189 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.026 (min.)
Front Width = 0.021 (min.)

Tailing Factor = 1.2, Max. Tailing < 2.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh
Job No.: 180-82446-1
SDG No.:
Client Sample ID:
Lab Sample ID: MB 180-259105/1-A
Matrix: Sediment
Lab File ID: S1013007.D
Analysis Method: EPA 8270D LL
Date Collected:
Extract. Method: 3541
Date Extracted: 10/08/2018 09:24
Sample wt/vol: 30.0(g)
Date Analyzed: 10/13/2018 13:56
Con. Extract Vol.: 0.5(mL)
Dilution Factor: 1
Injection Volume: 2(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 259743
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-12-7	Anthracene	0.87	U	3.4	0.87
56-55-3	Benzo[a]anthracene	0.63	U	3.4	0.63
205-99-2	Benzo[b]fluoranthene	0.82	U	3.4	0.82
207-08-9	Benzo[k]fluoranthene	1.0	U	3.4	1.0
191-24-2	Benzo[g,h,i]perylene	0.72	U	3.4	0.72
50-32-8	Benzo[a]pyrene	0.73	U	3.4	0.73
218-01-9	Chrysene	0.66	U	3.4	0.66
53-70-3	Dibenz(a,h)anthracene	0.75	U	3.4	0.75
206-44-0	Fluoranthene	0.88	U	3.4	0.88
86-73-7	Fluorene	0.66	U	3.4	0.66
193-39-5	Indeno[1,2,3-cd]pyrene	0.68	U	3.4	0.68
85-01-8	Phenanthrene	0.90	U	3.4	0.90
129-00-0	Pyrene	0.79	U	3.4	0.79
83-32-9	Acenaphthene	0.96	U	3.4	0.96
208-96-8	Acenaphthylene	0.73	U	3.4	0.73
91-20-3	Naphthalene	0.65	U	3.4	0.65

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5 (Surr)	81		39-105
321-60-8	2-Fluorobiphenyl	84		39-105
1718-51-0	Terphenyl-d14 (Surr)	129		28-148

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013007.D
Lims ID: MB 180-259105/1-A
Client ID:
Sample Type: MB
Inject. Date: 13-Oct-2018 13:56:30 ALS Bottle#: 5 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0024076-007
Misc. Info.: MB 180-259105/1-A
Operator ID: 001562 Instrument ID: CH71

Method: \\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\BNA_CH71.m
Limit Group: BNA 8270D ICAL
Last Update: 13-Oct-2018 14:52:10 Calib Date: 16-Apr-2018 17:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416021.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: fergusond Date: 13-Oct-2018 14:52:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.994	5.997	-0.003	96	134857	8.00	8.00	
* 2 Naphthalene-d8	136	7.202	7.204	-0.002	99	522325	8.00	8.00	
* 3 Acenaphthene-d10	164	8.820	8.817	0.003	94	261665	8.00	8.00	
* 4 Phenanthrene-d10	188	10.182	10.179	0.003	96	508063	8.00	8.00	
* 5 Chrysene-d12	240	13.505	13.508	-0.003	97	529890	8.00	8.00	
* 6 Perylene-d12	264	16.331	16.344	-0.013	98	410658	8.00	8.00	
$ 7 2-Fluorophenol	112	4.616	4.624	-0.008	93	739510	40.0	34.8	
$ 8 Phenol-d5	99	5.642	5.649	-0.007	98	948578	40.0	35.3	
$ 9 Nitrobenzene-d5	82	6.523	6.520	0.003	90	777261	40.0	32.5	
$ 10 2-Fluorobiphenyl	172	8.190	8.187	0.003	100	1813490	40.0	33.5	
$ 11 2,4,6-Tribromophenol	330	9.536	9.533	0.003	94	237410	40.0	34.9	
$ 12 Terphenyl-d14	244	11.865	11.857	0.008	99	2925025	40.0	51.6	
13 1,4-Dioxane	88		1.418					ND	
14 N-Nitrosodimethylamine	74		1.979					ND	
15 Pyridine	79		2.017					ND	
18 2-Picoline	93		3.729					ND	
19 N-Nitrosomethylethylamine	88		3.958					ND	
21 Methyl methanesulfonate	80		4.383					ND	U
20 Acrylamide	71		4.386					ND	U
23 N-Nitrosodiethylamine	102		4.877					ND	
24 Ethyl methanesulfonate	79		5.230					ND	
106 Diphenylamine	169		5.424					ND	U
25 Benzaldehyde	77		5.548					ND	
26 Phenol	94		5.660					ND	
27 Aniline	93		5.665					ND	
28 Pentachloroethane	167		5.732					ND	
29 Bis(2-chloroethyl)ether	93		5.740					ND	
30 2-Chlorophenol	128		5.788					ND	
31 n-Decane	43		5.858					ND	U
32 1,3-Dichlorobenzene	146		5.938					ND	
33 1,4-Dichlorobenzene	146		6.013					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
34 Benzyl alcohol	108		6.130					ND	
35 1,2-Dichlorobenzene	146		6.157					ND	
37 Indene	116		6.242					ND	U
36 2-Methylphenol	108		6.242					ND	
38 2,2'-oxybis[1-chloropropan	45		6.269					ND	
39 N-Nitrosopyrrolidine	100		6.349					ND	
40 Acetophenone	105		6.381					ND	
41 N-Nitrosodi-n-propylamine	70		6.381					ND	U
42 4-Methylphenol	108		6.387					ND	
43 N-Nitrosomorpholine	116		6.410					ND	
44 2-Toluidine	106		6.437					ND	
45 Hexachloroethane	117		6.488					ND	
46 Nitrobenzene	77		6.541					ND	
47 N-Nitrosopiperidine	114		6.704					ND	
48 Isophorone	82		6.766					ND	
49 2-Nitrophenol	139		6.846					ND	
50 2,4-Dimethylphenol	107		6.883					ND	
52 Benzoic acid	122		6.926					ND	
51 o,o',o''-Triethylphosphoro	198		6.966					ND	
53 Bis(2-chloroethoxy)methane	93		6.969					ND	
54 2,4-Dichlorophenol	162		7.065					ND	
55 alpha,alpha-Dimethyl phene	58		7.105					ND	U
56 1,2,4-Trichlorobenzene	180		7.150					ND	
58 Naphthalene	128		7.220					ND	
59 4-Chloroaniline	127		7.263					ND	
60 2,6-Dichlorophenol	162		7.279					ND	
61 Hexachloropropene	213		7.340					ND	
62 Hexachlorobutadiene	225		7.343					ND	
64 Caprolactam	113		7.546					ND	
63 Quinoline	129		7.553					ND	
65 N-Nitrosodi-n-butylamine	84		7.596					ND	U
66 p-Phenylene diamine	108		7.612					ND	
67 4-Chloro-3-methylphenol	107		7.701					ND	U
68 Safrole, Total	162		7.799					ND	
69 2-Methylnaphthalene	142		7.861					ND	U
71 1-Methylnaphthalene	142		7.952					ND	U
72 Hexachlorocyclopentadiene	237		8.011					ND	
73 1,2,4,5-Tetrachlorobenzene	216		8.016					ND	
74 2,4,6-Trichlorophenol	196		8.112					ND	
75 2,4,5-Trichlorophenol	196		8.144					ND	
70 Diphenamid	168		8.200					ND	U
180 Isosafrole	162		8.269					ND	
76 1,1'-Biphenyl	154		8.283					ND	U
77 2-Chloronaphthalene	162		8.304					ND	
78 1-Chloronaphthalene	162		8.355					ND	
79 2-Nitroaniline	65		8.384					ND	
80 1,4-Naphthoquinone	158		8.488					ND	U
81 1,4-Dinitrobenzene	168		8.531					ND	U
82 Dimethyl phthalate	163		8.545					ND	
83 1,3-Dinitrobenzene	168		8.571					ND	U
84 2,6-Dinitrotoluene	165		8.598					ND	
85 Acenaphthylene	152		8.689					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
86 3-Nitroaniline	138		8.758					ND	
88 Acenaphthene	153		8.844					ND	
87 2,4-Dinitrophenol	184		8.849					ND	
89 4-Nitrophenol	109		8.892					ND	
91 2,4-Dinitrotoluene	165		8.967					ND	
92 Pentachlorobenzene	250		9.001					ND	
93 Dibenzofuran	168		9.004					ND	
95 2,3,5,6-Tetrachlorophenol	232		9.068					ND	
94 1-Naphthylamine	143		9.097					ND	U
96 2,3,4,6-Tetrachlorophenol	232		9.111					ND	
97 2-Naphthylamine	143		9.138					ND	U
98 Diethyl phthalate	149		9.180					ND	
99 Hexadecane	57		9.197					ND	
142 Thionazin	97		9.284					ND	
100 4-Chlorophenyl phenyl ethe	204		9.303					ND	
101 4-Nitroaniline	138		9.314					ND	
103 Fluorene	166		9.314					ND	U
104 4,6-Dinitro-2-methylphenol	198		9.341					ND	
102 N-Nitro-o-toluidine	152		9.343					ND	U
105 N-Nitrosodiphenylamine	169		9.410					ND	
90 1,2-Diphenylhydrazine	77		9.448					ND	
57 Azobenzene	77		9.448					ND	
148 Sulfotepp	97		9.562					ND	
107 1,3,5-Trinitrobenzene	213		9.653					ND	
184 Diallate Peak 1	86		9.696					ND	
108 Phenacetin	108		9.701					ND	
109 Phorate	121		9.701					ND	
110 4-Bromophenyl phenyl ether	248		9.752					ND	U
163 Diallate Peak 2	86		9.781					ND	
112 Hexachlorobenzene	284		9.827					ND	
111 Dimethoate	87		9.856					ND	
113 Atrazine	200		9.875					ND	
116 Pentachlorophenol	266		9.998					ND	
114 4-Aminobiphenyl	169		10.016					ND	U
115 n-Octadecane	57		10.030					ND	
118 Pentachloronitrobenzene	237		10.043					ND	
117 Pronamide	173		10.054					ND	
119 Disulfoton	88		10.176					ND	
120 Dinoseb	211		10.182					ND	
121 Phenanthrene	178		10.201					ND	
122 Anthracene	178		10.244					ND	
124 Carbazole	167		10.382					ND	
125 Methyl parathion	109		10.524					ND	
126 Di-n-butyl phthalate	149		10.676					ND	
127 Ethyl Parathion	109		10.903					ND	
128 4-Nitroquinoline-1-oxide	190		10.962					ND	
129 Methapyrilene	58		11.021					ND	
130 Isodrin	193		11.277					ND	
131 Fluoranthene	202		11.413					ND	U
132 Benzidine	184		11.542					ND	U
133 Pyrene	202		11.697					ND	U
168 Aramite Peak 1	185		11.822					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
164 Aramite Peak 2	185		11.929					ND	
135 p-Dimethylamino azobenzene	225		12.073					ND	U
136 Chlorobenzilate	139		12.126					ND	
134 1,2,3,4 -Tetrachlorobenzen	216		12.215					ND	U
137 Famphur	218		12.445					ND	
138 Butyl benzyl phthalate	149		12.530					ND	
139 3,3'-Dimethylbenzidine	212		12.554					ND	
140 Kepone	272		12.643					ND	
141 2-Acetylaminofluorene	181		12.954					ND	
144 3,3'-Dichlorobenzidine	252		13.427					ND	
143 4,4'-Methylene bis(2-chlor	231		13.457					ND	
146 Benzo[a]anthracene	228		13.486					ND	
145 Bis(2-ethylhexyl) phthalat	149		13.502					ND	
147 Chrysene	228		13.550					ND	
149 6-Methylchrysene	242		14.423					ND	
150 Di-n-octyl phthalate	149		14.774					ND	
151 7,12-Dimethylbenz(a)anthra	256		15.548					ND	
152 Benzo[b]fluoranthene	252		15.559					ND	
153 Benzo[k]fluoranthene	252		15.612					ND	
219 Benzo[e]pyrene	252		16.109					ND	
154 Benzo[a]pyrene	252		16.221					ND	
155 3-Methylcholanthrene	268		16.956					ND	
156 Dibenz[a,h]acridine	279		18.051					ND	
220 Dibenz[a,j]acridine	279		18.147					ND	
157 Indeno[1,2,3-cd]pyrene	276		18.481					ND	
158 Dibenz(a,h)anthracene	278		18.535					ND	
159 Benzo[g,h,i]perylene	276		19.031					ND	
182 4-Chlorophenol	128		0.000					ND	U
177 1,2,3,4-Tetrahydronaphthal	104		0.000					ND	U
161 4-Methyl-1-cyclohexanemeth	97		0.000					ND	U
186 o-Phenylphenol	1		0.000					ND	U
181 4-Chlorobenzoic Acid	139		0.000					ND	U
170 4-tert-Octylphenol	135		0.000					ND	U
183 2,3-Dichlorophenol	162		0.000					ND	U
173 Octachlorocyclopentene	307		0.000					ND	U
174 2-Chlorobenzoic Acid	139		0.000					ND	U
223 4-nonylphenol TIC	1		0.000					ND	U
178 Trifluralin	306		0.000					ND	U
222 Phenyl ether TIC	1		0.000					ND	U
171 4-Methyl-1-cyclohexanemeth	97		0.000					ND	U
213 3-Methylphenol	1		0.000					ND	U
187 1,2-Dibromo-3-Chloropropan	157		0.000					ND	U
166 4-Chloro-3-nitro-alpha,alp	179		0.000					ND	U
176 Dimethylformamide	73		0.000					ND	U
162 3-Chlorobenzoic Acid	139		0.000					ND	U
167 Phthalic anhydride	104		0.000					ND	U
185 4-Nitrobiphenyl	199		0.000					ND	U
160 n,n'-Dimethylaniline	120		0.000					ND	U
175 1,2,3-Trimethylbenzene	105		0.000					ND	U
221 2,6-Dichlorotoluene	1		0.000					ND	U
169 Octachlorostyrene	308		0.000					ND	U
179 2,5-Dichlorophenol	162		0.000					ND	U

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
189 Pentachlorophenol_T	266		5.425					ND	U
191 Benzidine_T	184		8.026					ND	U
192 4,4'-DDE	246		8.398					ND	U
193 4,4'-DDD	235		9.031					ND	U
194 4,4'-DDT	235		9.570					ND	U
S 195 Aramite, Total	185		1.000					ND	
S 197 Methyl Phenols,Total	108		0.000					ND	
S 198 Diallate	86		0.000					ND	
S 199 Total Cresols	108		0.000					ND	
S 196 4-Methyl-1-cyclohexanemeth	97		0.000					ND	
T 218 Benzotrichloride TIC	159		6.702					ND	U
T 200 Quinoline TIC	129		7.755					ND	U
T 212 2,3,7,8-TCDD TIC	322		9.000					ND	U
T 216 1-Phenyl-1-(2,4-dimethylph	195		9.130					ND	U
T 215 1-Phenyl-1-(2,4-dimethylph	195		9.130					ND	U
T 214 1-Phenyl-1-(4-methylphenyl	181		9.230					ND	U
T 217 1-Phenyl-1-(4-methylphenyl	181		9.230					ND	U
T 123 Hexachlorophene TIC	198		10.600					ND	U

QC Flag Legend

Review Flags

U - Marked Undetected

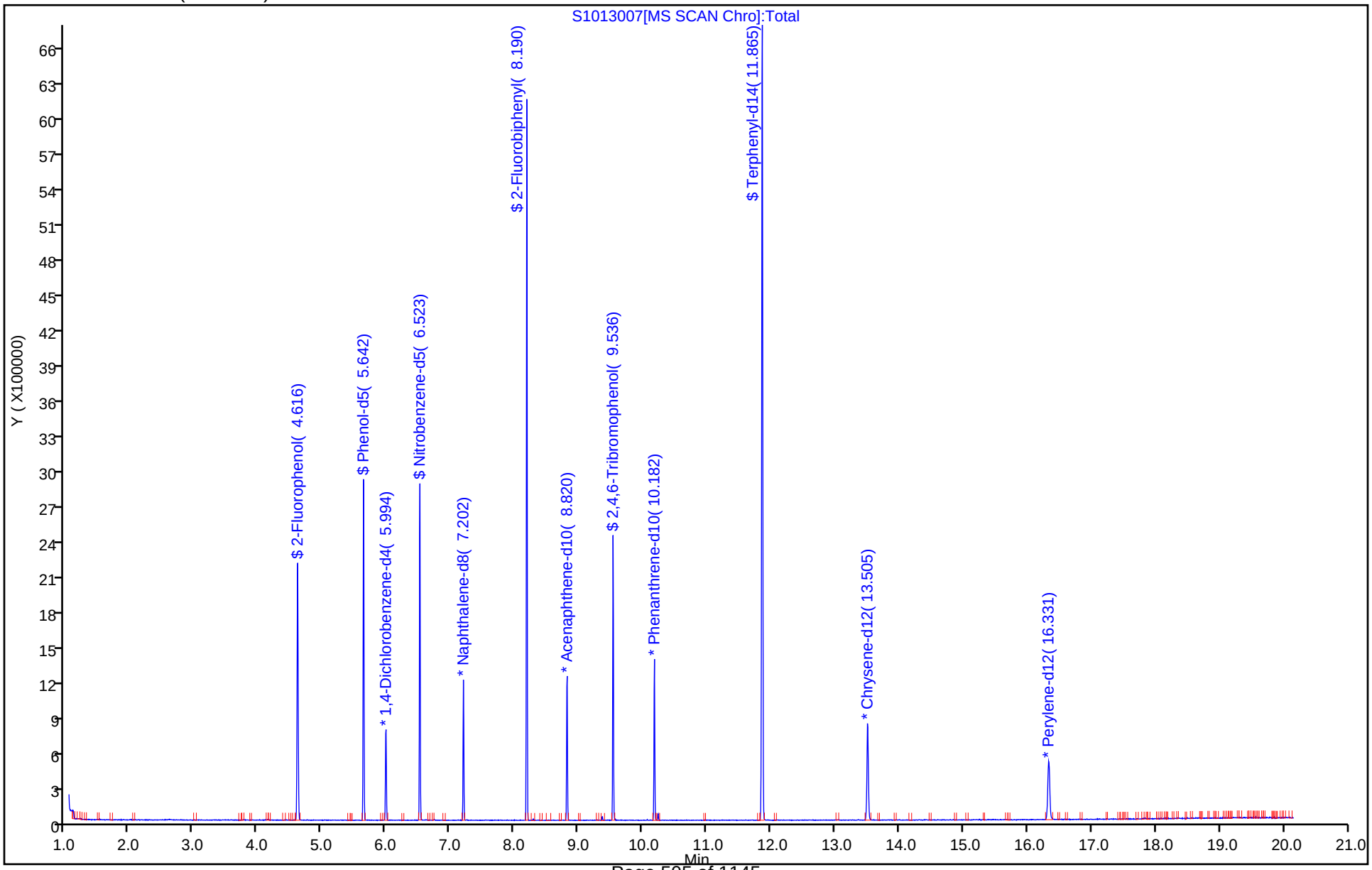
Reagents:

SVTAPITINTRNi_00018 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 13-Oct-2018 14:52:10 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013007.D				
Injection Date:	13-Oct-2018 13:56:30	Instrument ID:	CH71	Operator ID:	001562
Lims ID:	MB 180-259105/1-A			Worklist Smp#:	7
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column: Rxi-5SilMS (0.32 mm)					



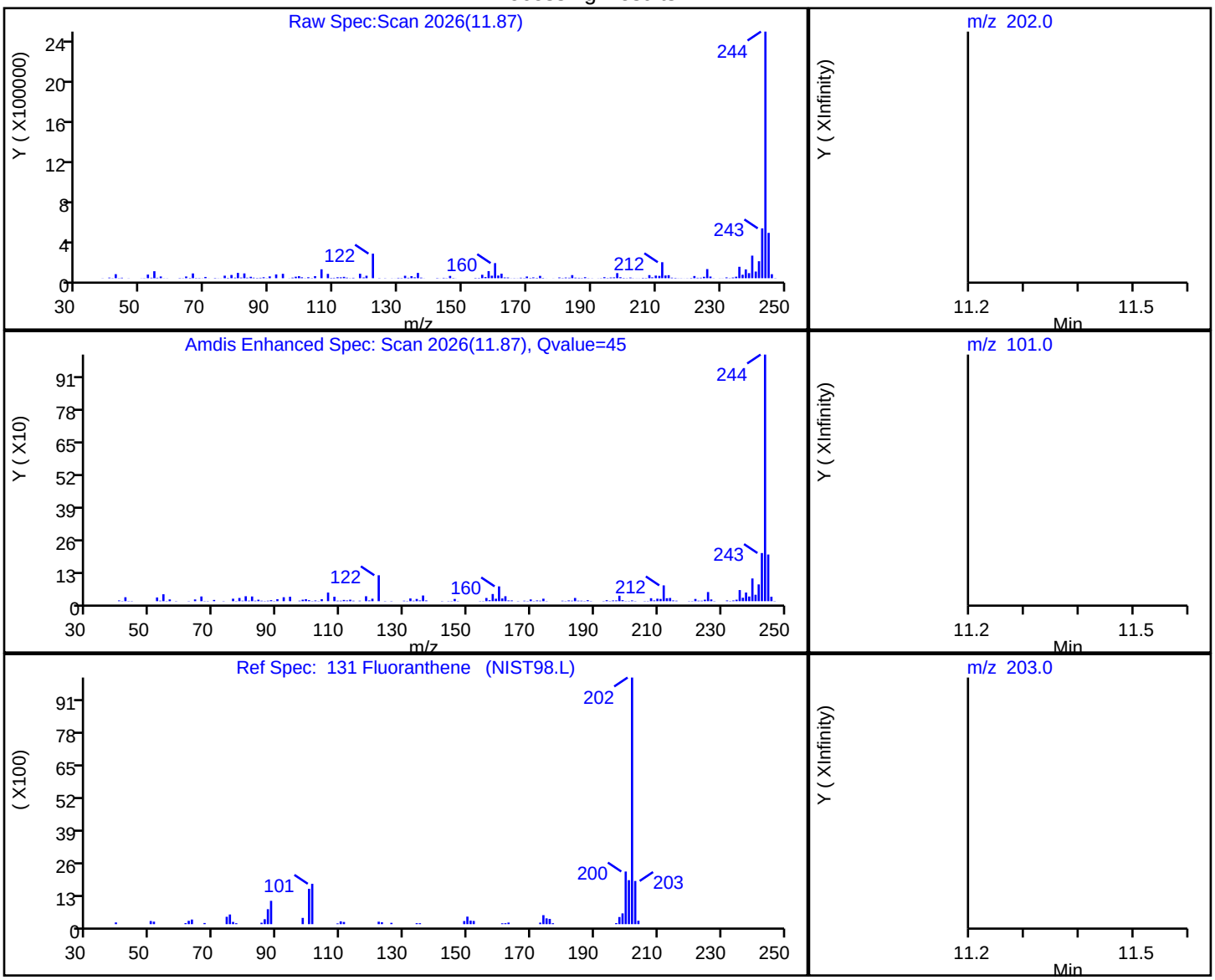
User Disabled Compound Report

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013007.D				
Injection Date:	13-Oct-2018 13:56:30	Instrument ID:	CH71		
Lims ID:	MB 180-259105/1-A				
Client ID:					
Operator ID:	001562	ALS Bottle#:	5	Worklist Smp#:	7
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

131 Fluoranthene, CAS: 206-44-0

Processing Results



RT	Mass	Response	Amount
11.87	202.00	7310	0.088795
11.86	101.00	1743	
11.86	203.00	1582	

Reviewer: fergusond, 13-Oct-2018 14:51:09

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

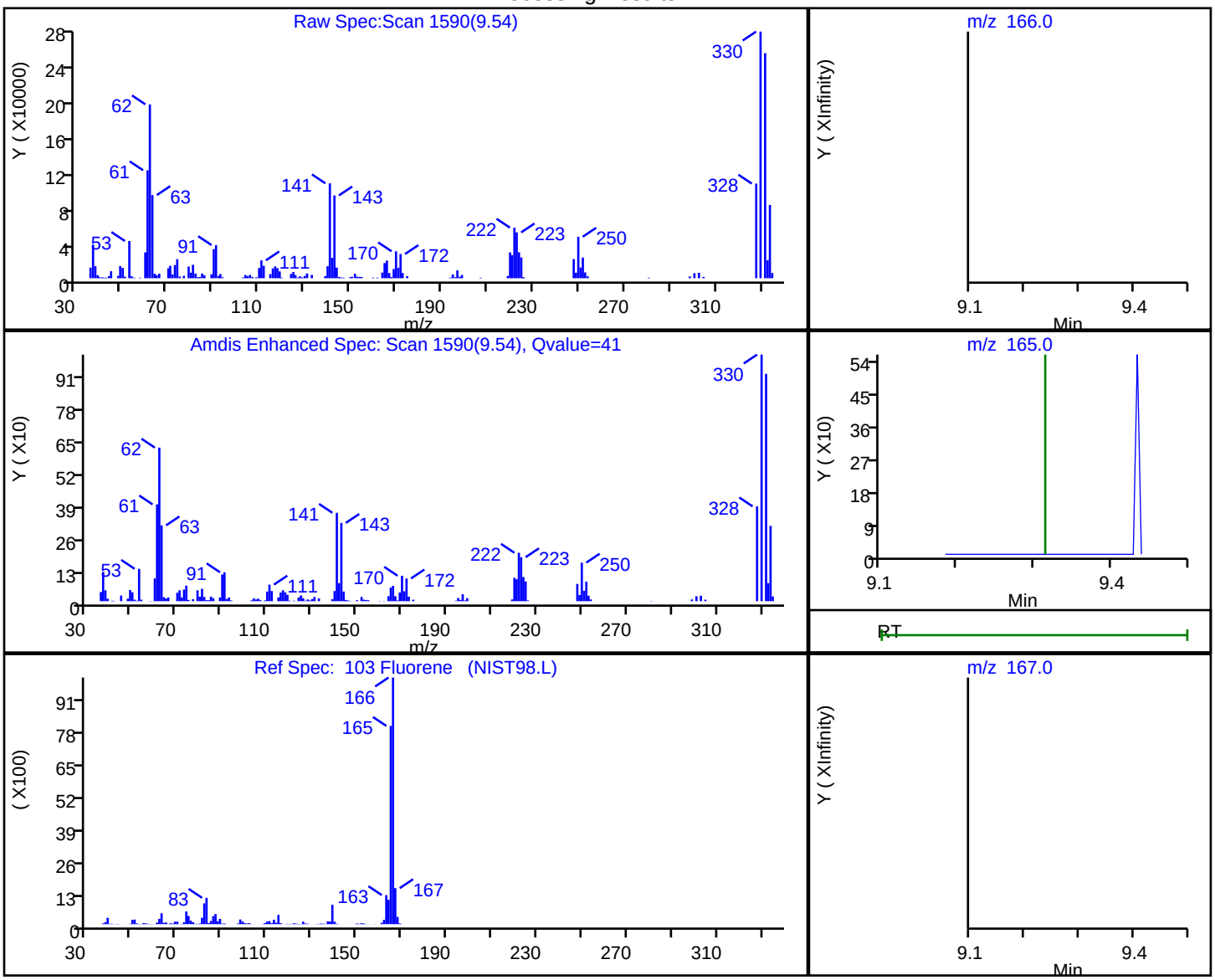
User Disabled Compound Report

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013007.D				
Injection Date:	13-Oct-2018 13:56:30	Instrument ID:	CH71		
Lims ID:	MB 180-259105/1-A				
Client ID:					
Operator ID:	001562	ALS Bottle#:	5	Worklist Smp#:	7
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

103 Fluorene, CAS: 86-73-7

Processing Results



RT	Mass	Response	Amount
9.54	166.00	14262	0.297721
9.54	165.00	14078	
9.54	167.00	4848	

Reviewer: fergusond, 13-Oct-2018 14:50:51

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

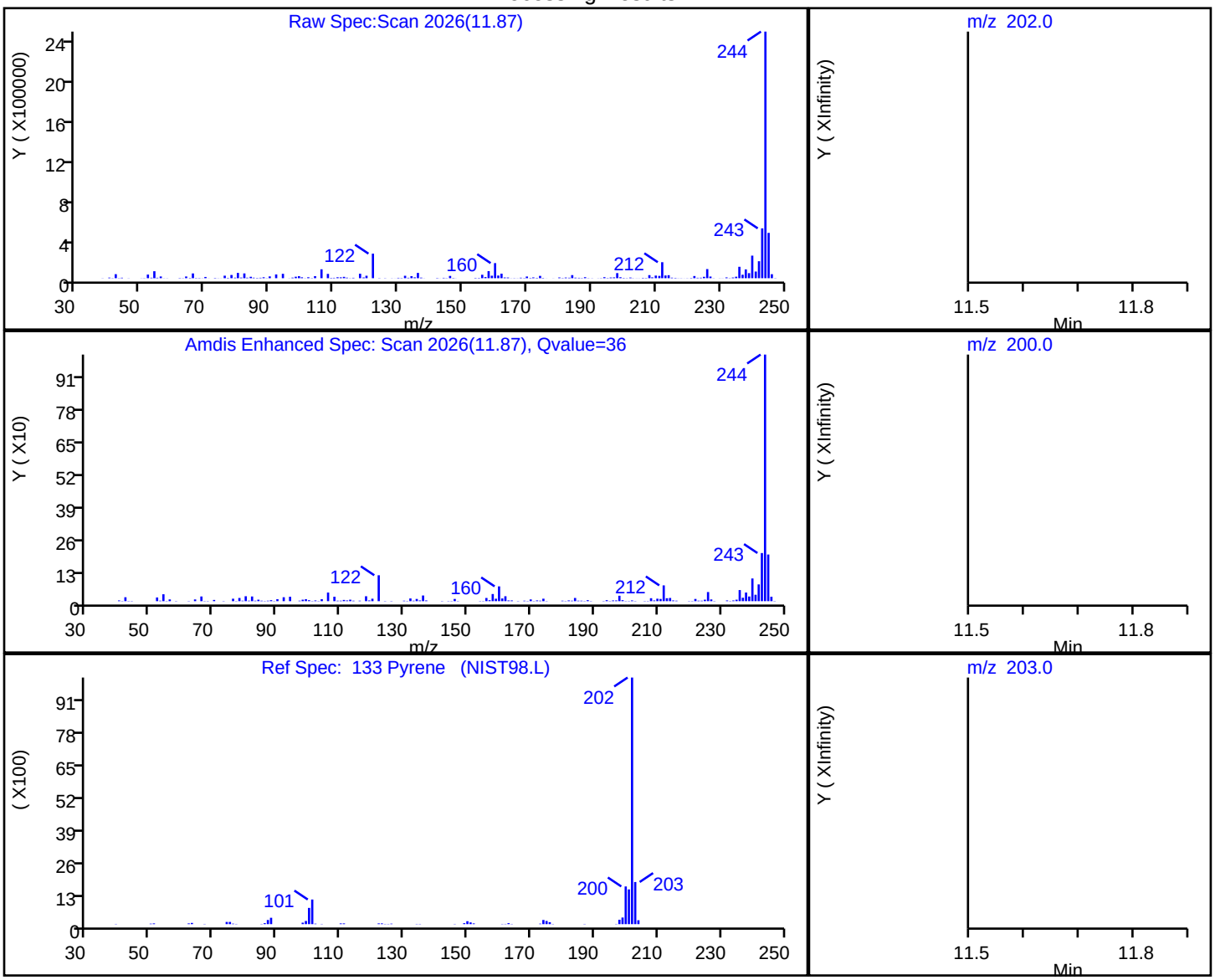
User Disabled Compound Report

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013007.D				
Injection Date:	13-Oct-2018 13:56:30	Instrument ID:	CH71		
Lims ID:	MB 180-259105/1-A				
Client ID:					
Operator ID:	001562	ALS Bottle#:	5	Worklist Smp#:	7
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

133 Pyrene, CAS: 129-00-0

Processing Results



RT	Mass	Response	Amount
11.87	202.00	7310	0.092497
11.87	200.00	3647	
11.86	203.00	1582	

Reviewer: fergusond, 13-Oct-2018 14:51:12

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh
Job No.: 180-82446-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 180-259105/2-A
Matrix: Sediment
Lab File ID: S1013008.D
Analysis Method: EPA 8270D LL
Date Collected:
Extract. Method: 3541
Date Extracted: 10/08/2018 09:24
Sample wt/vol: 30.0(g)
Date Analyzed: 10/13/2018 14:23
Con. Extract Vol.: 0.5(mL)
Dilution Factor: 1
Injection Volume: 2(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 259743
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-12-7	Anthracene	316		3.4	0.87
56-55-3	Benzo[a]anthracene	275		3.4	0.63
205-99-2	Benzo[b]fluoranthene	278		3.4	0.82
207-08-9	Benzo[k]fluoranthene	320		3.4	1.0
191-24-2	Benzo[g,h,i]perylene	314		3.4	0.72
50-32-8	Benzo[a]pyrene	317		3.4	0.73
218-01-9	Chrysene	279		3.4	0.66
53-70-3	Dibenz(a,h)anthracene	311		3.4	0.75
206-44-0	Fluoranthene	282		3.4	0.88
86-73-7	Fluorene	296		3.4	0.66
193-39-5	Indeno[1,2,3-cd]pyrene	307		3.4	0.68
85-01-8	Phenanthrene	307		3.4	0.90
129-00-0	Pyrene	274		3.4	0.79
83-32-9	Acenaphthene	301		3.4	0.96
208-96-8	Acenaphthylene	284		3.4	0.73
91-20-3	Naphthalene	260		3.4	0.65

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5 (Surr)	79		39-105
321-60-8	2-Fluorobiphenyl	82		39-105
1718-51-0	Terphenyl-d14 (Surr)	80		28-148

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013008.D
Lims ID: LCS 180-259105/2-A
Client ID:
Sample Type: LCS
Inject. Date: 13-Oct-2018 14:23:30 ALS Bottle#: 6 Worklist Smp#: 8
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 180-0024076-008
Misc. Info.: LCS 180-259105/2-A
Operator ID: 001562 Instrument ID: CH71

Method: \\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\BNA_CH71.m
Limit Group: BNA 8270D ICAL
Last Update: 13-Oct-2018 14:54:26 Calib Date: 16-Apr-2018 17:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416021.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: fergusond Date: 13-Oct-2018 14:54:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.991	5.997	-0.006	95	135377	8.00	8.00	
* 2 Naphthalene-d8	136	7.204	7.204	0.000	99	517171	8.00	8.00	
* 3 Acenaphthene-d10	164	8.817	8.817	0.000	93	261314	8.00	8.00	
* 4 Phenanthrene-d10	188	10.179	10.179	0.000	96	499382	8.00	8.00	
* 5 Chrysene-d12	240	13.513	13.508	0.005	65	572035	8.00	8.00	
* 6 Perylene-d12	264	16.339	16.344	-0.005	99	432299	8.00	8.00	
$ 7 2-Fluorophenol	112	4.618	4.624	-0.006	94	707028	40.0	33.2	
$ 8 Phenol-d5	99	5.644	5.649	-0.005	99	922912	40.0	34.2	
$ 9 Nitrobenzene-d5	82	6.525	6.520	0.005	90	750258	40.0	31.7	
$ 10 2-Fluorobiphenyl	172	8.192	8.187	0.005	100	1779229	40.0	32.9	
$ 11 2,4,6-Tribromophenol	330	9.538	9.533	0.005	93	235093	40.0	35.1	
$ 12 Terphenyl-d14	244	11.862	11.857	0.005	99	1950072	40.0	31.8	
13 1,4-Dioxane	88	1.408	1.418	-0.010	96	266123	40.0	35.0	
14 N-Nitrosodimethylamine	74	1.969	1.979	-0.010	92	422695	40.0	39.7	
15 Pyridine	79	2.006	2.017	-0.011	93	1474690	80.0	75.1	
25 Benzaldehyde	77	5.548	5.548	0.000	94	55966	40.0	3.49	
26 Phenol	94	5.660	5.660	0.000	99	978986	40.0	31.9	
27 Aniline	93	5.665	5.665	0.000	98	1010953	40.0	29.7	
29 Bis(2-chloroethyl)ether	93	5.740	5.740	0.000	97	678443	40.0	29.9	
30 2-Chlorophenol	128	5.783	5.788	-0.005	97	776312	40.0	33.9	
31 n-Decane	43	5.858	5.858	0.000	90	745475	40.0	40.0	
32 1,3-Dichlorobenzene	146	5.938	5.938	0.000	99	861015	40.0	31.4	
33 1,4-Dichlorobenzene	146	6.013	6.013	0.000	94	870883	40.0	32.0	
34 Benzyl alcohol	108	6.130	6.130	0.000	93	492581	40.0	33.3	
35 1,2-Dichlorobenzene	146	6.157	6.157	0.000	98	842972	40.0	32.4	
37 Indene	116	6.242	6.242	0.000	91	1286623	40.0	32.1	
36 2-Methylphenol	108	6.242	6.242	0.000	73	687640	40.0	32.5	
38 2,2'-oxybis[1-chloropropan	45	6.269	6.269	0.000	93	950868	40.0	38.0	
41 N-Nitrosodi-n-propylamine	70	6.387	6.381	0.006	88	511158	40.0	35.1	
40 Acetophenone	105	6.381	6.381	0.000	96	892994	40.0	27.2	
42 4-Methylphenol	108	6.387	6.387	0.000	93	728081	40.0	32.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
45 Hexachloroethane	117	6.488	6.488	0.000	93	315022	40.0	29.9	
46 Nitrobenzene	77	6.541	6.541	0.000	89	739894	40.0	30.2	
48 Isophorone	82	6.766	6.766	0.000	98	1204362	40.0	27.4	
49 2-Nitrophenol	139	6.846	6.846	0.000	93	432946	40.0	38.7	
50 2,4-Dimethylphenol	107	6.883	6.883	0.000	95	748883	40.0	29.8	
52 Benzoic acid	122	6.947	6.926	0.021	89	387845	40.0	34.4	
53 Bis(2-chloroethoxy)methane	93	6.969	6.969	0.000	99	820695	40.0	29.4	
54 2,4-Dichlorophenol	162	7.065	7.065	0.000	94	684979	40.0	32.5	
56 1,2,4-Trichlorobenzene	180	7.150	7.150	0.000	94	778798	40.0	30.4	
58 Naphthalene	128	7.220	7.220	0.000	97	2189552	40.0	31.3	
59 4-Chloroaniline	127	7.268	7.263	0.005	96	897812	40.0	32.2	
60 2,6-Dichlorophenol	162	7.279	7.279	0.000	98	684659	40.0	33.0	
62 Hexachlorobutadiene	225	7.343	7.343	0.000	93	460725	40.0	25.8	
64 Caprolactam	113	7.556	7.546	0.010	80	215871	40.0	32.3	
67 4-Chloro-3-methylphenol	107	7.701	7.701	0.000	95	623401	40.0	29.0	
69 2-Methylnaphthalene	142	7.861	7.861	0.000	93	1556937	40.0	33.6	
71 1-Methylnaphthalene	142	7.952	7.952	0.000	94	1471845	40.0	34.2	
72 Hexachlorocyclopentadiene	237	8.011	8.011	0.000	94	501907	40.0	28.1	
73 1,2,4,5-Tetrachlorobenzene	216	8.016	8.016	0.000	96	812731	40.0	29.8	
74 2,4,6-Trichlorophenol	196	8.112	8.112	0.000	91	549199	40.0	33.3	
75 2,4,5-Trichlorophenol	196	8.144	8.144	0.000	95	561610	40.0	31.8	
76 1,1'-Biphenyl	154	8.283	8.283	0.000	94	1833819	40.0	35.5	
77 2-Chloronaphthalene	162	8.310	8.304	0.006	94	1485476	40.0	34.9	
79 2-Nitroaniline	65	8.390	8.384	0.006	88	410641	40.0	33.5	
82 Dimethyl phthalate	163	8.545	8.545	0.000	100	1662019	40.0	32.9	
83 1,3-Dinitrobenzene	168	8.577	8.571	0.006	92	280387	40.0	36.3	
84 2,6-Dinitrotoluene	165	8.604	8.598	0.006	95	397177	40.0	38.6	
85 Acenaphthylene	152	8.689	8.689	0.000	98	1986489	40.0	34.1	
86 3-Nitroaniline	138	8.758	8.758	0.000	94	395826	40.0	37.2	
88 Acenaphthene	153	8.849	8.844	0.005	93	1428870	40.0	36.1	
87 2,4-Dinitrophenol	184	8.855	8.849	0.006	84	556979	80.0	63.7	
89 4-Nitrophenol	109	8.897	8.892	0.005	91	428149	80.0	43.5	
91 2,4-Dinitrotoluene	165	8.972	8.967	0.005	94	534180	40.0	37.6	
93 Dibenzofuran	168	9.004	9.004	0.000	97	2063664	40.0	34.9	
96 2,3,4,6-Tetrachlorophenol	232	9.111	9.111	0.000	70	485148	40.0	31.5	
98 Diethyl phthalate	149	9.186	9.180	0.006	99	1561543	40.0	32.2	
99 Hexadecane	57	9.197	9.197	0.001	95	947311	40.0	31.9	
100 4-Chlorophenyl phenyl ethe	204	9.303	9.303	0.000	90	914748	40.0	31.8	
103 Fluorene	166	9.319	9.314	0.005	94	1696429	40.0	35.5	
101 4-Nitroaniline	138	9.319	9.314	0.005	61	433273	40.0	38.4	
104 4,6-Dinitro-2-methylphenol	198	9.351	9.341	0.010	92	677672	80.0	72.7	
105 N-Nitrosodiphenylamine	169	9.410	9.410	0.000	98	1263405	40.0	38.5	
90 1,2-Diphenylhydrazine	77	9.453	9.448	0.005	98	1411969	40.0	32.1	
57 Azobenzene	77	9.453	9.448	0.005	96	1411969	40.0	32.0	
110 4-Bromophenyl phenyl ether	248	9.752	9.752	0.000	63	527599	40.0	34.1	
112 Hexachlorobenzene	284	9.832	9.827	0.005	96	544123	40.0	33.6	
113 Atrazine	200	9.880	9.875	0.005	96	309434	40.0	18.0	
116 Pentachlorophenol	266	10.003	9.998	0.005	94	735594	80.0	63.7	
115 n-Octadecane	57	10.030	10.030	0.000	95	936478	40.0	29.9	
121 Phenanthrene	178	10.201	10.201	0.000	97	2450491	40.0	36.9	
122 Anthracene	178	10.249	10.244	0.005	96	2529479	40.0	38.0	
124 Carbazole	167	10.382	10.382	0.000	95	2242763	40.0	38.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
126 Di-n-butyl phthalate	149	10.682	10.676	0.006	100	2655202	40.0	38.0	
131 Fluoranthene	202	11.419	11.413	0.006	96	2735110	40.0	33.8	
132 Benzidine	184	11.547	11.542	0.005	99	328964	40.0	8.97	
133 Pyrene	202	11.697	11.697	0.000	98	2807906	40.0	32.9	
138 Butyl benzyl phthalate	149	12.530	12.530	0.000	96	1093467	40.0	33.5	
144 3,3'-Dichlorobenzidine	252	13.433	13.427	0.006	73	906498	40.0	27.9	
146 Benzo[a]anthracene	228	13.492	13.486	0.006	97	2818853	40.0	33.0	
145 Bis(2-ethylhexyl) phthalat	149	13.508	13.502	0.006	95	1580791	40.0	35.1	
147 Chrysene	228	13.556	13.550	0.006	96	2684040	40.0	33.5	
150 Di-n-octyl phthalate	149	14.774	14.774	0.000	99	2480457	40.0	34.0	
152 Benzo[b]fluoranthene	252	15.570	15.559	0.011	96	2585676	40.0	33.4	
153 Benzo[k]fluoranthene	252	15.618	15.612	0.006	98	2686635	40.0	38.4	
154 Benzo[a]pyrene	252	16.227	16.221	0.006	77	2469006	40.0	38.1	
157 Indeno[1,2,3-cd]pyrene	276	18.492	18.481	0.011	99	2738448	40.0	36.9	
158 Dibenz(a,h)anthracene	278	18.535	18.535	0.000	87	2340682	40.0	37.3	
159 Benzo[g,h,i]perylene	276	19.031	19.031	0.000	98	2308241	40.0	37.6	
S 199 Total Cresols	108				0		80.0	65.5	
S 197 Methyl Phenols,Total	108				0		80.0	65.5	

Reagents:

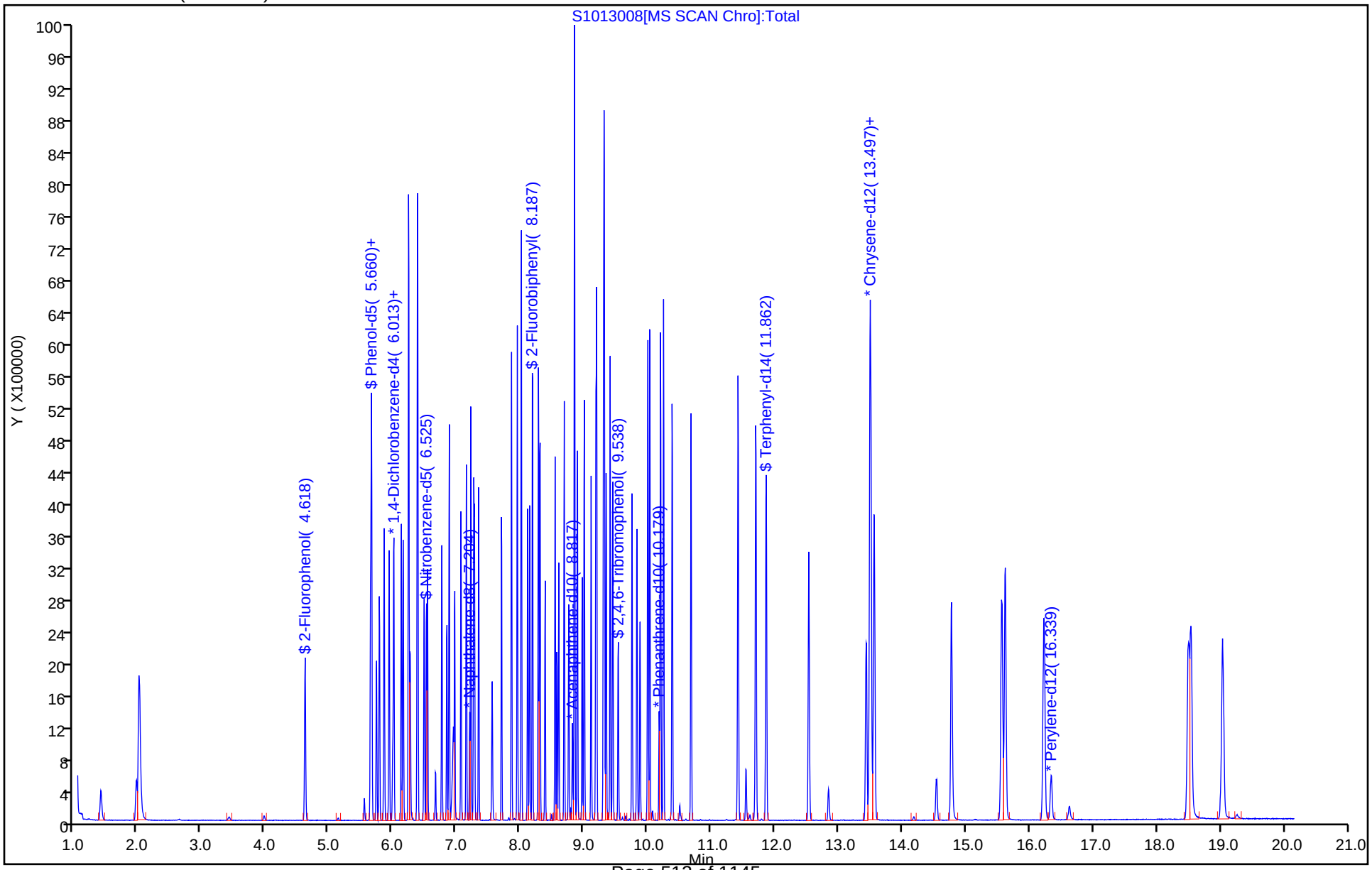
SVTAPITINTRNi_00018 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 13-Oct-2018 14:54:27 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013008.D				
Injection Date:	13-Oct-2018 14:23:30	Instrument ID:	CH71	Operator ID:	001562
Lims ID:	LCS 180-259105/2-A			Worklist Smp#:	8
Client ID:					
Injection Vol:	2.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh
Job No.: 180-82446-1
SDG No.:
Client Sample ID:
Lab Sample ID: 180-82503-A-2-A MS
Matrix: Sediment
Lab File ID: S1013012.D
Analysis Method: EPA 8270D LL
Date Collected: 09/27/2018 08:00
Extract. Method: 3541
Date Extracted: 10/08/2018 09:24
Sample wt/vol: 15.0(g)
Date Analyzed: 10/13/2018 16:14
Con. Extract Vol.: 0.5(mL)
Dilution Factor: 2
Injection Volume: 2(uL)
Level: (low/med) Low
% Moisture: 19.0
GPC Cleanup:(Y/N) N
Analysis Batch No.: 259743
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-12-7	Anthracene	586		17	4.3
56-55-3	Benzo[a]anthracene	557		17	3.1
205-99-2	Benzo[b]fluoranthene	647		17	4.1
207-08-9	Benzo[k]fluoranthene	592		17	4.9
191-24-2	Benzo[g,h,i]perylene	756		17	3.6
50-32-8	Benzo[a]pyrene	654		17	3.6
218-01-9	Chrysene	606		17	3.2
53-70-3	Dibenz(a,h)anthracene	647		17	3.7
206-44-0	Fluoranthene	595		17	4.3
86-73-7	Fluorene	568		17	3.2
193-39-5	Indeno[1,2,3-cd]pyrene	708		17	3.3
85-01-8	Phenanthrene	592		17	4.4
129-00-0	Pyrene	543		17	3.9
83-32-9	Acenaphthene	578		17	4.7
208-96-8	Acenaphthylene	544		17	3.6
91-20-3	Naphthalene	488		17	3.2

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5 (Surr)	64		39-105
321-60-8	2-Fluorobiphenyl	64		39-105
1718-51-0	Terphenyl-d14 (Surr)	56		28-148

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013012.D
Lims ID: 180-82503-A-2-A MS
Client ID: CFBSB-033-SO-0-0.5
Sample Type: MS
Inject. Date: 13-Oct-2018 16:14:30 ALS Bottle#: 10 Worklist Smp#: 12
Injection Vol: 2.0 ul Dil. Factor: 2.0000
Sample Info: 180-0024076-012
Misc. Info.: 180-82503-A-2-A MS
Operator ID: 001562 Instrument ID: CH71

Method: \\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\BNA_CH71.m
Limit Group: BNA 8270D ICAL
Last Update: 14-Oct-2018 09:28:38 Calib Date: 16-Apr-2018 17:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416021.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: fergusond Date: 14-Oct-2018 09:28:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.996	5.997	-0.001	94	151526	4.00	8.00	
* 2 Naphthalene-d8	136	7.204	7.204	0.000	99	545564	4.00	8.00	
* 3 Acenaphthene-d10	164	8.817	8.817	0.000	95	276666	4.00	8.00	
* 4 Phenanthrene-d10	188	10.179	10.179	0.000	97	545768	4.00	8.00	
* 5 Chrysene-d12	240	13.513	13.508	0.005	97	667873	4.00	8.00	
* 6 Perylene-d12	264	16.344	16.344	0.000	99	566150	4.00	8.00	
$ 7 2-Fluorophenol	112	4.623	4.625	-0.001	93	306056	20.0	12.8	
$ 8 Phenol-d5	99	5.649	5.652	0.000	98	367159	20.0	12.1	
$ 9 Nitrobenzene-d5	82	6.525	6.522	0.005	91	321272	20.0	12.9	
$ 10 2-Fluorobiphenyl	172	8.192	8.194	0.005	100	727513	20.0	12.7	
$ 11 2,4,6-Tribromophenol	330	9.538	9.540	0.005	92	95149	20.0	13.0	
$ 12 Terphenyl-d14	244	11.862	11.868	0.005	99	804714	20.0	11.3	
13 1,4-Dioxane	88	1.445	1.419	0.027	96	86562	20.0	10.2	
25 Benzaldehyde	77	5.547	5.550	-0.001	92	135979	20.0	7.58	
26 Phenol	94	5.665	5.662	0.005	95	369609	20.0	10.8	
29 Bis(2-chloroethyl)ether	93	5.740	5.742	0.000	96	292048	20.0	11.5	
30 2-Chlorophenol	128	5.788	5.791	0.000	97	320919	20.0	12.5	
36 2-Methylphenol	108	6.247	6.245	0.005	73	278067	20.0	11.8	
38 2,2'-oxybis[1-chloropropan	45	6.263	6.272	-0.006	91	400684	20.0	14.3	
41 N-Nitrosodi-n-propylamine	70	6.381	6.384	0.000	91	217606	20.0	13.4	
40 Acetophenone	105	6.381	6.384	0.000	96	376651	20.0	10.3	
45 Hexachloroethane	117	6.488	6.491	0.000	93	127878	20.0	10.9	
46 Nitrobenzene	77	6.541	6.544	0.000	90	309849	20.0	12.0	
48 Isophorone	82	6.765	6.768	-0.001	98	494418	20.0	10.7	
49 2-Nitrophenol	139	6.846	6.848	0.000	94	175580	20.0	14.9	
50 2,4-Dimethylphenol	107	6.883	6.886	0.000	95	281818	20.0	10.6	
53 Bis(2-chloroethoxy)methane	93	6.968	6.971	-0.001	99	333922	20.0	11.3	
54 2,4-Dichlorophenol	162	7.070	7.067	0.005	93	276508	20.0	12.4	
58 Naphthalene	128	7.220	7.222	0.000	97	876609	20.0	11.9	
59 4-Chloroaniline	127	7.268	7.265	0.005	97	165801	20.0	5.64	
62 Hexachlorobutadiene	225	7.342	7.345	-0.001	94	183729	20.0	9.75	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
64 Caprolactam	113	7.551	7.551	0.005	79	66125	20.0	9.39	Ma
67 4-Chloro-3-methylphenol	107	7.706	7.703	0.005	95	248116	20.0	10.9	
69 2-Methylnaphthalene	142	7.861	7.864	0.000	92	626576	20.0	12.8	
72 Hexachlorocyclopentadiene	237	8.010	8.018	-0.001	93	152445	20.0	8.05	
73 1,2,4,5-Tetrachlorobenzene	216	8.016	8.023	0.000	96	328935	20.0	11.4	
74 2,4,6-Trichlorophenol	196	8.117	8.119	0.005	91	216413	20.0	12.4	
75 2,4,5-Trichlorophenol	196	8.149	8.151	0.005	96	211957	20.0	11.3	
76 1,1'-Biphenyl	154	8.283	8.290	0.000	95	742712	20.0	13.6	
77 2-Chloronaphthalene	162	8.304	8.312	0.000	96	597704	20.0	13.3	
79 2-Nitroaniline	65	8.389	8.392	0.005	86	178149	20.0	13.7	
82 Dimethyl phthalate	163	8.544	8.552	-0.001	99	680306	20.0	12.7	
84 2,6-Dinitrotoluene	165	8.603	8.606	0.005	95	160254	20.0	14.7	
85 Acenaphthylene	152	8.689	8.688	0.000	98	814807	20.0	13.2	
86 3-Nitroaniline	138	8.758	8.766	0.000	94	97432	20.0	8.65	
88 Acenaphthene	153	8.849	8.852	0.005	93	588254	20.0	14.0	
87 2,4-Dinitrophenol	184	8.854	8.857	0.005	82	76668	40.0	9.70	
89 4-Nitrophenol	109	8.897	8.900	0.005	96	156560	40.0	15.0	
91 2,4-Dinitrotoluene	165	8.972	8.975	0.005	95	219523	20.0	14.6	
93 Dibenzofuran	168	9.004	9.012	0.000	97	851997	20.0	13.6	
96 2,3,4,6-Tetrachlorophenol	232	9.111	9.119	0.000	70	184406	20.0	11.3	
98 Diethyl phthalate	149	9.185	9.189	0.005	98	638589	20.0	12.4	
100 4-Chlorophenyl phenyl ethe	204	9.308	9.312	0.005	89	373416	20.0	12.3	
103 Fluorene	166	9.319	9.329	0.005	94	699003	20.0	13.8	
101 4-Nitroaniline	138	9.314	9.322	0.000	80	90645	20.0	7.59	
104 4,6-Dinitro-2-methylphenol	198	9.346	9.348	0.005	89	214873	40.0	22.4	
105 N-Nitrosodiphenylamine	169	9.410	9.417	0.000	97	492497	20.0	13.7	
110 4-Bromophenyl phenyl ether	248	9.757	9.759	0.005	66	217357	20.0	12.9	
112 Hexachlorobenzene	284	9.832	9.834	0.005	95	211284	20.0	11.9	
113 Atrazine	200	9.880	9.882	0.005	93	127392	20.0	7.39	
116 Pentachlorophenol	266	10.003	10.005	0.005	92	168761	40.0	13.4	
121 Phenanthrene	178	10.206	10.209	0.005	97	1043797	20.0	14.4	
122 Anthracene	178	10.254	10.251	0.010	96	1036659	20.0	14.2	
124 Carbazole	167	10.387	10.390	0.005	96	917031	20.0	14.4	
126 Di-n-butyl phthalate	149	10.681	10.684	0.005	100	1111126	20.0	14.6	
131 Fluoranthene	202	11.418	11.412	0.005	97	1278092	20.0	14.5	
133 Pyrene	202	11.702	11.708	0.005	99	1313335	20.0	13.2	
138 Butyl benzyl phthalate	149	12.540	12.542	0.010	97	508504	20.0	13.4	
144 3,3'-Dichlorobenzidine	252		13.427				ND	ND	
146 Benzo[a]anthracene	228	13.491	13.499	0.005	98	1349109	20.0	13.5	
145 Bis(2-ethylhexyl) phthalat	149	13.507	13.515	0.005	95	746879	20.0	14.2	
147 Chrysene	228	13.561	13.560	0.011	96	1376494	20.0	14.7	
150 Di-n-octyl phthalate	149	14.779	14.788	0.005	100	1270600	20.0	13.9	
152 Benzo[b]fluoranthene	252	15.564	15.574	0.005	96	1593396	20.0	15.7	
153 Benzo[k]fluoranthene	252	15.623	15.628	0.011	98	1316269	20.0	14.4	
154 Benzo[a]pyrene	252	16.232	16.237	0.011	75	1348726	20.0	15.9	
157 Indeno[1,2,3-cd]pyrene	276	18.518	18.507	0.037	98	1673078	20.0	17.2	
158 Dibenz(a,h)anthracene	278	18.550	18.550	0.015	91	1293643	20.0	15.7	M
159 Benzo[g,h,i]perylene	276	19.063	19.047	0.032	98	1475253	20.0	18.4	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

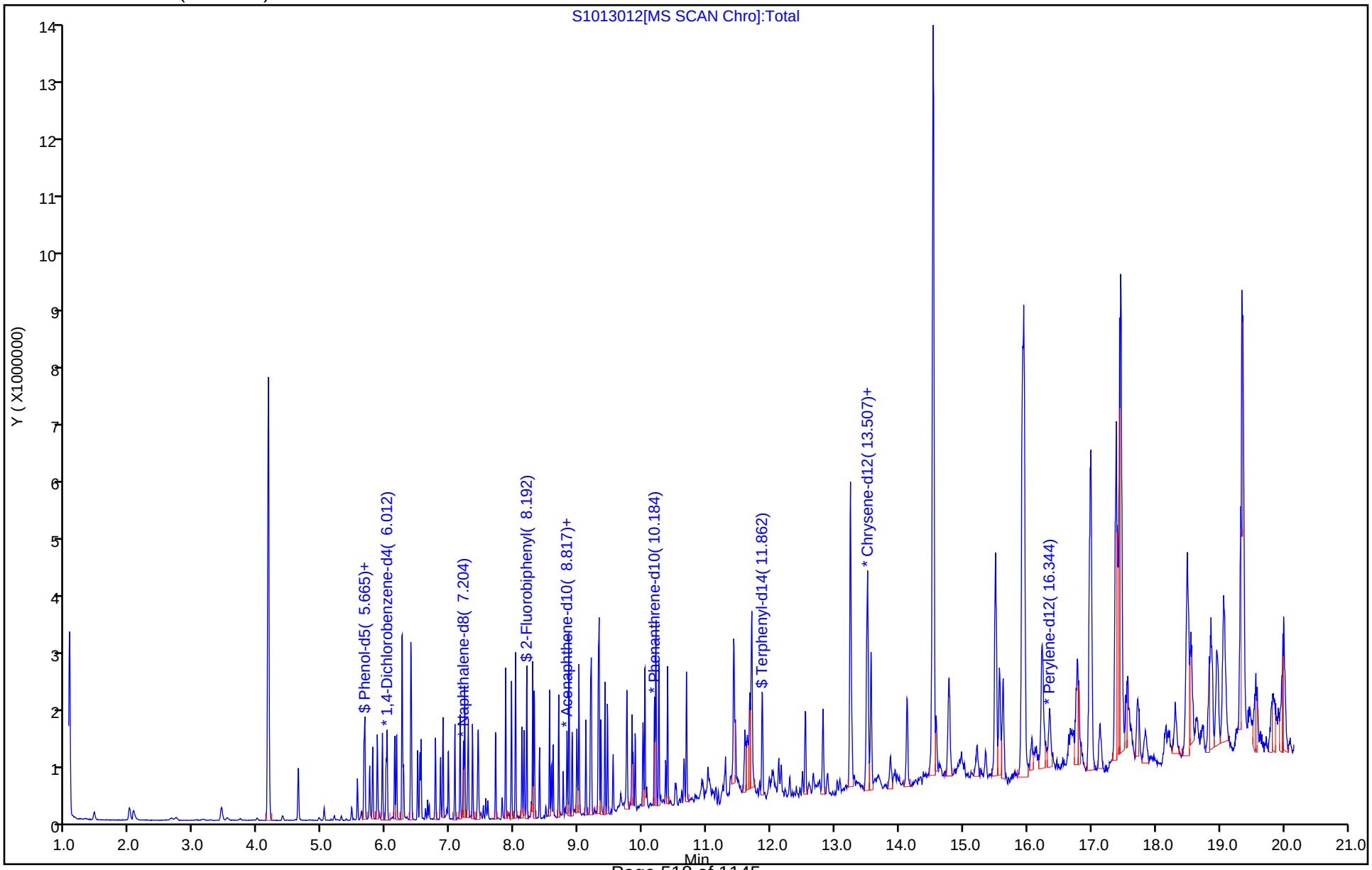
SVTAPITINTRNi_00018	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 14-Oct-2018 09:28:39 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013012.D				
Injection Date:	13-Oct-2018 16:14:30	Instrument ID:	CH71	Operator ID:	001562
Lims ID:	180-82503-A-2-A MS			Worklist Smp#:	12
Client ID:	CFBSB-033-SO-0-0.5				
Injection Vol:	2.0 ul	Dil. Factor:	2.0000	ALS Bottle#:	10
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



Manual Integration/User Assign Peak Report

TestAmerica Pittsburgh

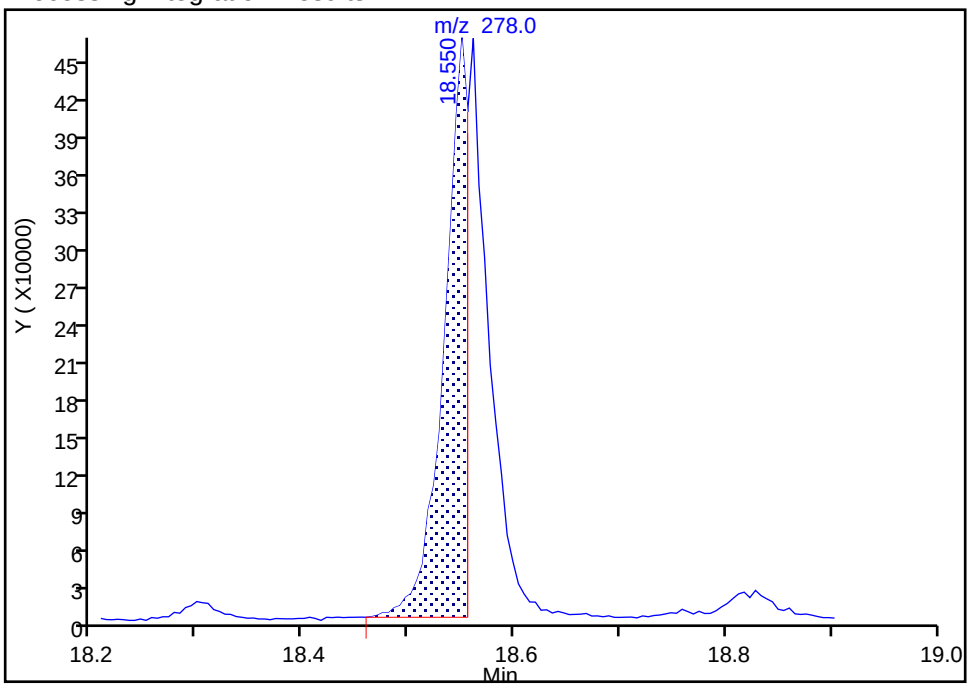
Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013012.D				
Injection Date:	13-Oct-2018 16:14:30	Instrument ID:	CH71		
Lims ID:	180-82503-A-2-A MS				
Client ID:	CFBSB-033-SO-0-0.5				
Operator ID:	001562	ALS Bottle#:	10	Worklist Smp#:	12
Injection Vol:	2.0 ul	Dil. Factor:	2.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

158 Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

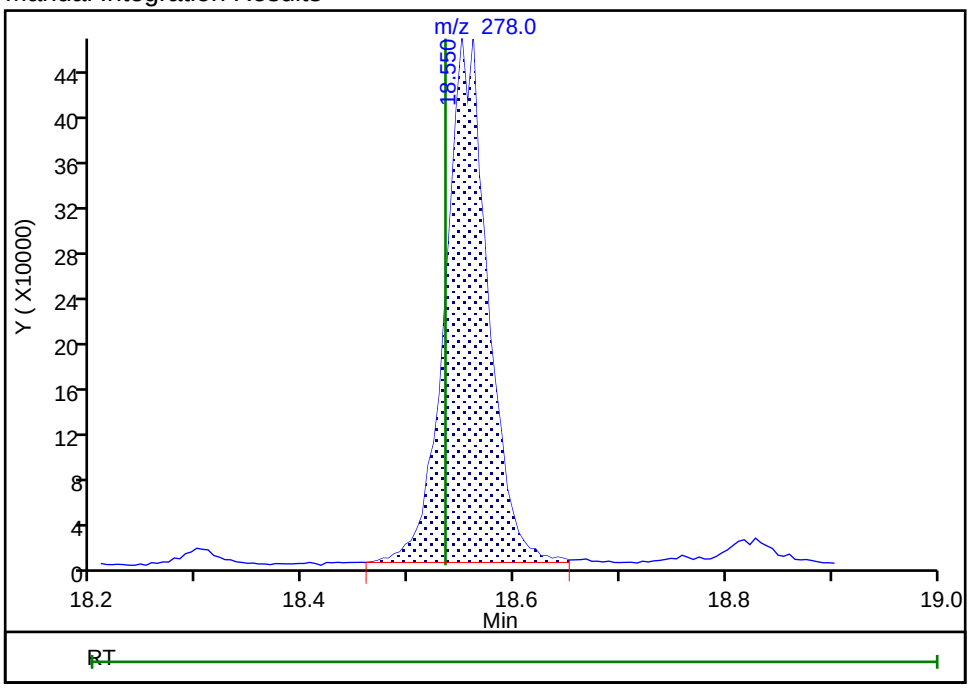
Processing Integration Results

RT: 18.55
Area: 728896
Amount: 8.859696
Amount Units: ng



Manual Integration Results

RT: 18.55
Area: 1293643
Amount: 15.724168
Amount Units: ng



Reviewer: fergusond, 14-Oct-2018 09:27:44

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Pittsburgh
Job No.: 180-82446-1
SDG No.:
Client Sample ID:
Lab Sample ID: 180-82503-A-2-B MSD
Matrix: Sediment
Lab File ID: S1013013.D
Analysis Method: EPA 8270D LL
Date Collected: 09/27/2018 08:00
Extract. Method: 3541
Date Extracted: 10/08/2018 09:24
Sample wt/vol: 15.4(g)
Date Analyzed: 10/13/2018 16:42
Con. Extract Vol.: 0.5(mL)
Dilution Factor: 2
Injection Volume: 2(uL)
Level: (low/med) Low
% Moisture: 19.0
GPC Cleanup:(Y/N) N
Analysis Batch No.: 259743
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-12-7	Anthracene	824		16	4.2
56-55-3	Benzo[a]anthracene	749		16	3.0
205-99-2	Benzo[b]fluoranthene	769		16	3.9
207-08-9	Benzo[k]fluoranthene	779		16	4.8
191-24-2	Benzo[g,h,i]perylene	948		16	3.5
50-32-8	Benzo[a]pyrene	813		16	3.5
218-01-9	Chrysene	758		16	3.2
53-70-3	Dibenz(a,h)anthracene	856		16	3.6
206-44-0	Fluoranthene	796		16	4.2
86-73-7	Fluorene	767		16	3.2
193-39-5	Indeno[1,2,3-cd]pyrene	904		16	3.2
85-01-8	Phenanthrene	814		16	4.3
129-00-0	Pyrene	674		16	3.8
83-32-9	Acenaphthene	780		16	4.6
208-96-8	Acenaphthylene	739		16	3.5
91-20-3	Naphthalene	688		16	3.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5 (Surr)	87		39-105
321-60-8	2-Fluorobiphenyl	81		39-105
1718-51-0	Terphenyl-d14 (Surr)	79		28-148

TestAmerica Pittsburgh
Target Compound Quantitation Report

Data File: \\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013013.D
Lims ID: 180-82503-A-2-B MSD
Client ID: CFBSB-033-SO-0-0.5
Sample Type: MSD
Inject. Date: 13-Oct-2018 16:42:30 ALS Bottle#: 11 Worklist Smp#: 13
Injection Vol: 2.0 ul Dil. Factor: 2.0000
Sample Info: 180-0024076-013
Misc. Info.: 180-82503-A-2-B MSD
Operator ID: 001562 Instrument ID: CH71

Method: \\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\BNA_CH71.m
Limit Group: BNA 8270D ICAL
Last Update: 14-Oct-2018 09:31:05 Calib Date: 16-Apr-2018 17:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Pittsburgh\ChromData\CH71\20180416-21340.b\S0416021.D

Column 1 : Rxi-5SilMS (0.32 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: fergusond Date: 14-Oct-2018 09:35:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.999	5.997	0.002	96	150197	4.00	8.00	
* 2 Naphthalene-d8	136	7.211	7.204	0.007	99	551275	4.00	8.00	
* 3 Acenaphthene-d10	164	8.825	8.817	0.008	95	284957	4.00	8.00	
* 4 Phenanthrene-d10	188	10.192	10.179	0.013	96	546082	4.00	8.00	
* 5 Chrysene-d12	240	13.531	13.508	0.023	97	702634	4.00	8.00	
* 6 Perylene-d12	264	16.373	16.344	0.029	99	629407	4.00	8.00	
$ 7 2-Fluorophenol	112	4.637	4.625	0.013	93	422422	20.0	17.9	
$ 8 Phenol-d5	99	5.657	5.652	0.008	98	501354	20.0	16.7	
$ 9 Nitrobenzene-d5	82	6.533	6.522	0.013	91	442065	20.0	17.5	
$ 10 2-Fluorobiphenyl	172	8.200	8.194	0.013	100	954544	20.0	16.2	
$ 11 2,4,6-Tribromophenol	330	9.551	9.540	0.018	92	122646	20.0	16.8	
$ 12 Terphenyl-d14	244	11.880	11.868	0.023	99	1185649	20.0	15.8	
13 1,4-Dioxane	88	1.442	1.419	0.024	97	125995	20.0	14.9	
25 Benzaldehyde	77	5.555	5.550	0.007	92	185711	20.0	10.4	
26 Phenol	94	5.673	5.662	0.013	95	548587	20.0	16.1	
29 Bis(2-chloroethyl)ether	93	5.748	5.742	0.008	96	430622	20.0	17.1	
30 2-Chlorophenol	128	5.796	5.791	0.008	97	464917	20.0	18.3	
36 2-Methylphenol	108	6.255	6.245	0.013	72	396871	20.0	16.9	
38 2,2'-oxybis[1-chloropropan	45	6.271	6.272	0.002	92	570688	20.0	20.5	
41 N-Nitrosodi-n-propylamine	70	6.394	6.384	0.013	91	311955	20.0	19.3	
40 Acetophenone	105	6.389	6.384	0.008	96	550622	20.0	15.1	
45 Hexachloroethane	117	6.496	6.491	0.008	92	184601	20.0	15.8	
46 Nitrobenzene	77	6.549	6.544	0.008	90	458839	20.0	17.6	
48 Isophorone	82	6.773	6.768	0.007	97	716038	20.0	15.3	
49 2-Nitrophenol	139	6.854	6.848	0.008	95	252342	20.0	21.1	
50 2,4-Dimethylphenol	107	6.891	6.886	0.008	95	424247	20.0	15.8	
53 Bis(2-chloroethoxy)methane	93	6.976	6.971	0.007	99	477596	20.0	16.0	
54 2,4-Dichlorophenol	162	7.078	7.067	0.013	93	392248	20.0	17.5	
58 Naphthalene	128	7.233	7.222	0.013	97	1281380	20.0	17.2	
59 4-Chloroaniline	127	7.276	7.265	0.013	96	250020	20.0	8.42	
62 Hexachlorobutadiene	225	7.356	7.345	0.013	93	269609	20.0	14.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng	OnCol Amt ng	Flags
64 Caprolactam	113	7.564	7.564	0.018	81	100394	20.0	14.1	M
67 4-Chloro-3-methylphenol	107	7.714	7.703	0.013	97	373524	20.0	16.3	
69 2-Methylnaphthalene	142	7.869	7.864	0.008	93	902141	20.0	18.3	
72 Hexachlorocyclopentadiene	237	8.018	8.018	0.007	95	222802	20.0	11.4	
73 1,2,4,5-Tetrachlorobenzene	216	8.029	8.023	0.013	96	480220	20.0	16.2	
74 2,4,6-Trichlorophenol	196	8.125	8.119	0.013	91	306259	20.0	17.0	
75 2,4,5-Trichlorophenol	196	8.157	8.151	0.013	96	315682	20.0	16.4	
76 1,1'-Biphenyl	154	8.291	8.290	0.008	95	1083454	20.0	19.2	
77 2-Chloronaphthalene	162	8.317	8.312	0.013	95	877432	20.0	18.9	
79 2-Nitroaniline	65	8.397	8.392	0.013	85	246574	20.0	18.4	
82 Dimethyl phthalate	163	8.552	8.552	0.007	99	985313	20.0	17.9	
84 2,6-Dinitrotoluene	165	8.611	8.606	0.013	95	232189	20.0	20.7	
85 Acenaphthylene	152	8.697	8.688	0.008	98	1170404	20.0	18.4	
86 3-Nitroaniline	138	8.771	8.766	0.013	95	137591	20.0	11.9	
88 Acenaphthene	153	8.857	8.852	0.013	92	839626	20.0	19.5	
87 2,4-Dinitrophenol	184	8.862	8.857	0.013	82	142792	40.0	16.2	
89 4-Nitrophenol	109	8.910	8.900	0.018	96	243814	40.0	22.7	
91 2,4-Dinitrotoluene	165	8.980	8.975	0.013	94	299130	20.0	19.3	
93 Dibenzofuran	168	9.012	9.012	0.008	97	1224979	20.0	19.0	
96 2,3,4,6-Tetrachlorophenol	232	9.124	9.119	0.013	70	273170	20.0	16.2	
98 Diethyl phthalate	149	9.193	9.189	0.013	98	945797	20.0	17.9	
100 4-Chlorophenyl phenyl ethe	204	9.316	9.312	0.013	90	526920	20.0	16.8	
103 Fluorene	166	9.327	9.329	0.013	95	997704	20.0	19.1	
101 4-Nitroaniline	138	9.327	9.322	0.013	49	106297	20.0	8.64	
104 4,6-Dinitro-2-methylphenol	198	9.359	9.348	0.018	90	321565	40.0	32.6	
105 N-Nitrosodiphenylamine	169	9.423	9.417	0.013	98	694039	20.0	19.3	
110 4-Bromophenyl phenyl ether	248	9.765	9.759	0.013	65	306837	20.0	18.2	
112 Hexachlorobenzene	284	9.845	9.834	0.018	95	308248	20.0	17.4	
113 Atrazine	200	9.893	9.882	0.018	94	186596	20.0	10.4	
116 Pentachlorophenol	266	10.016	10.005	0.018	92	325945	40.0	25.8	
121 Phenanthrene	178	10.214	10.209	0.013	97	1475041	20.0	20.3	
122 Anthracene	178	10.262	10.251	0.018	96	1497594	20.0	20.6	
124 Carbazole	167	10.395	10.390	0.013	96	1248287	20.0	19.6	
126 Di-n-butyl phthalate	149	10.695	10.684	0.019	100	1547478	20.0	20.3	
131 Fluoranthene	202	11.432	11.412	0.019	96	1756114	20.0	19.8	
133 Pyrene	202	11.715	11.708	0.018	98	1760918	20.0	16.8	
138 Butyl benzyl phthalate	149	12.548	12.542	0.018	95	746527	20.0	18.6	
144 3,3'-Dichlorobenzidine	252		13.427				ND	ND	U
146 Benzo[a]anthracene	228	13.515	13.499	0.029	97	1960518	20.0	18.7	
145 Bis(2-ethylhexyl) phthalat	149	13.526	13.515	0.024	96	1104555	20.0	20.0	
147 Chrysene	228	13.579	13.560	0.029	96	1859341	20.0	18.9	
150 Di-n-octyl phthalate	149	14.803	14.788	0.029	99	1843189	20.0	17.8	
152 Benzo[b]fluoranthene	252	15.593	15.574	0.034	94	2162187	20.0	19.2	
153 Benzo[k]fluoranthene	252	15.657	15.628	0.045	98	1976929	20.0	19.4	
154 Benzo[a]pyrene	252	16.261	16.237	0.040	76	1914586	20.0	20.3	
157 Indeno[1,2,3-cd]pyrene	276	18.553	18.507	0.072	98	2438254	20.0	22.5	
158 Dibenz(a,h)anthracene	278	18.590	18.550	0.055	90	1952042	20.0	21.3	
159 Benzo[g,h,i]perylene	276	19.108	19.108	0.077	98	2112127	20.0	23.6	M

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

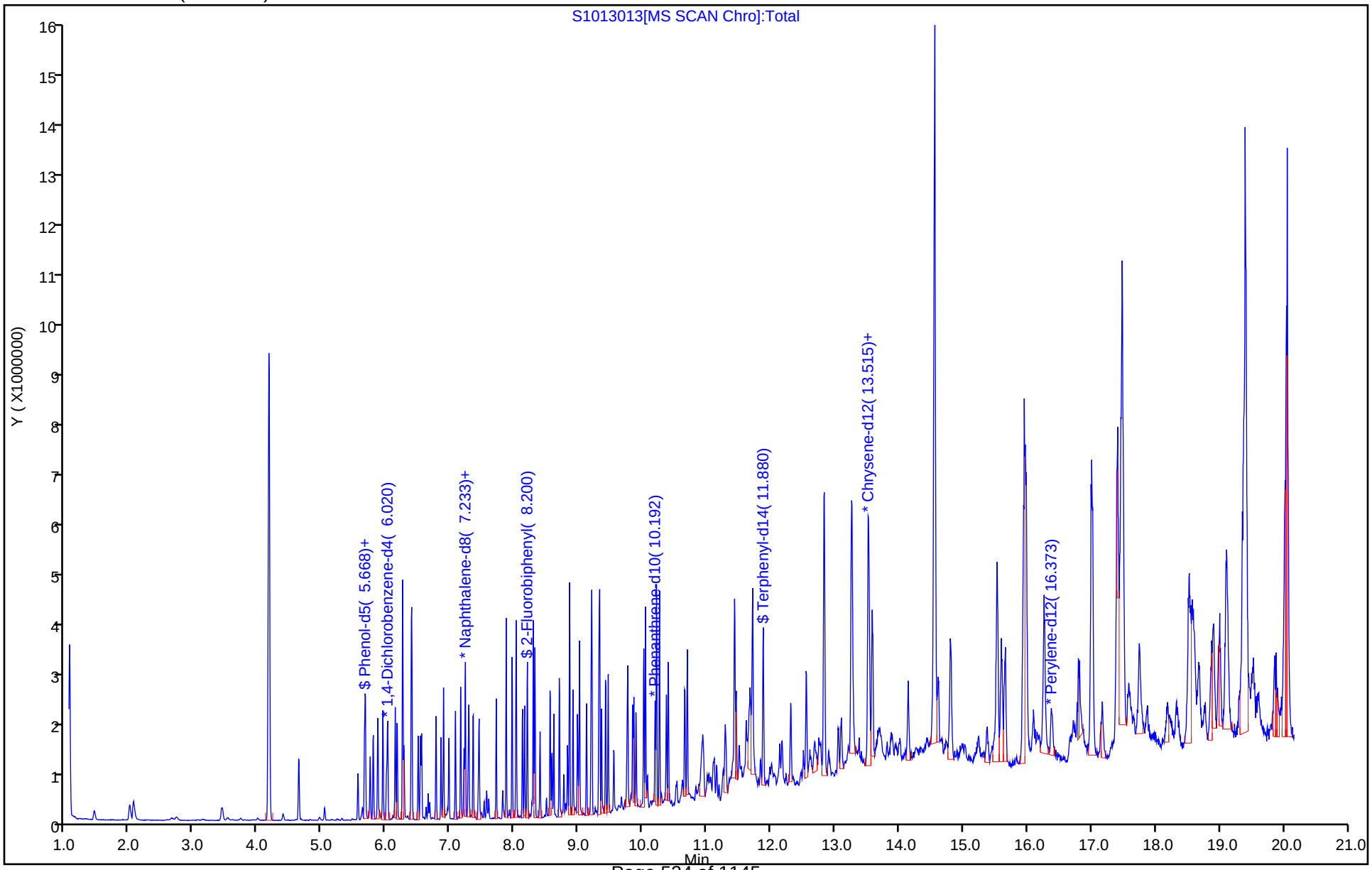
SVTAPITINTRNi_00018	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 14-Oct-2018 09:35:37 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Pittsburgh

Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013013.D				
Injection Date:	13-Oct-2018 16:42:30	Instrument ID:	CH71	Operator ID:	001562
Lims ID:	180-82503-A-2-B MSD			Worklist Smp#:	13
Client ID:	CFBSB-033-SO-0-0.5				
Injection Vol:	2.0 ul	Dil. Factor:	2.0000	ALS Bottle#:	11
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		

Column: Rxi-5SilMS (0.32 mm)



Manual Integration/User Assign Peak Report

TestAmerica Pittsburgh

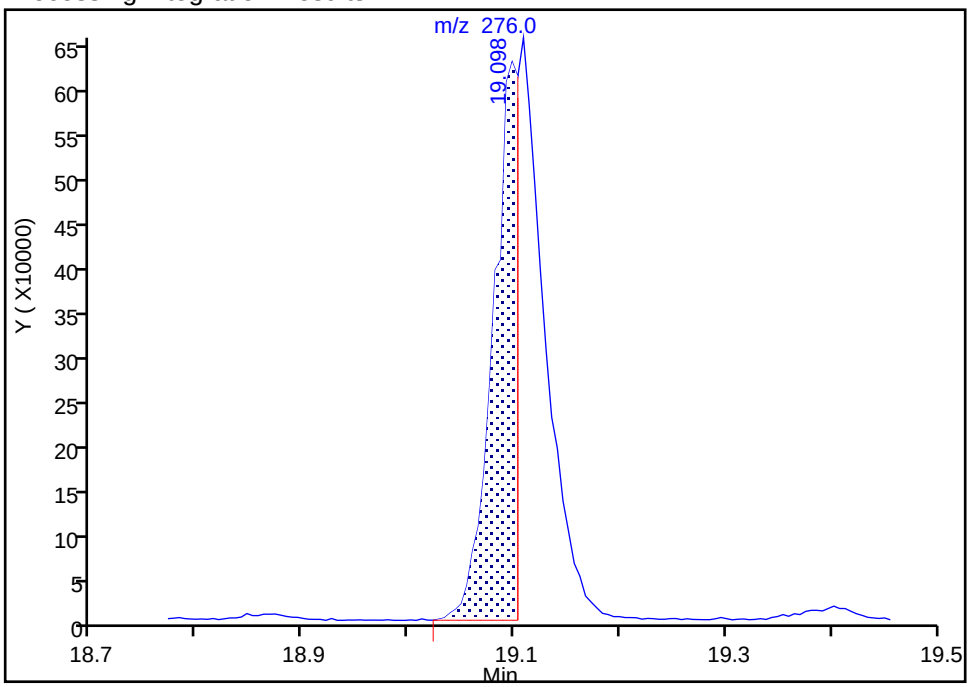
Data File:	\\ChromNA\Pittsburgh\ChromData\CH71\20181013-24076.b\S1013013.D				
Injection Date:	13-Oct-2018 16:42:30	Instrument ID:	CH71		
Lims ID:	180-82503-A-2-B MSD				
Client ID:	CFBSB-033-SO-0-0.5				
Operator ID:	001562	ALS Bottle#:	11	Worklist Smp#:	13
Injection Vol:	2.0 ul	Dil. Factor:	2.0000		
Method:	BNA_CH71	Limit Group:	BNA 8270D ICAL		
Column:	Rxi-5SilMS (0.32 mm)	Detector	MS SCAN		

159 Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

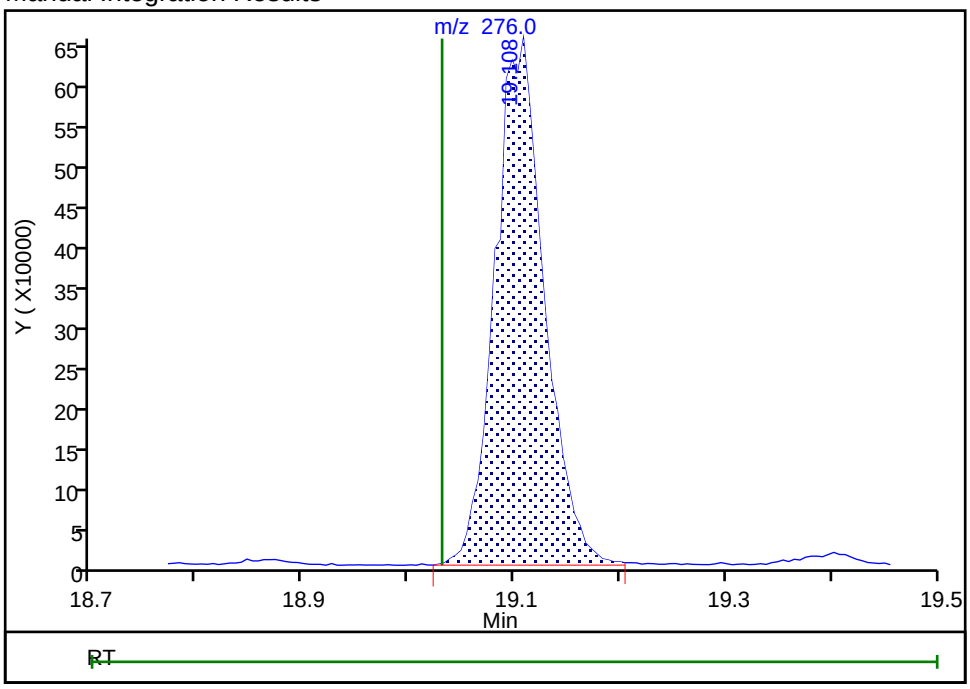
Processing Integration Results

RT: 19.10
Area: 1065360
Amount: 11.927421
Amount Units: ng



Manual Integration Results

RT: 19.11
Area: 2112127
Amount: 23.646681
Amount Units: ng



Reviewer: fergusond, 14-Oct-2018 09:30:13

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Instrument ID: CH71 Start Date: 04/16/2018 09:18

Analysis Batch Number: 242236 End Date: 04/16/2018 18:01

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 180-242236/2		04/16/2018 09:18	1	S0416002.D	Rxi-5SilMS 0.32(mm)
IC 180-242236/3		04/16/2018 09:38	1	S0416003.D	Rxi-5SilMS 0.32(mm)
IC 180-242236/4		04/16/2018 10:05	1	S0416004.D	Rxi-5SilMS 0.32(mm)
IC 180-242236/5		04/16/2018 10:33	1	S0416005.D	Rxi-5SilMS 0.32(mm)
ICIS 180-242236/6		04/16/2018 11:01	1	S0416006.D	Rxi-5SilMS 0.32(mm)
IC 180-242236/7		04/16/2018 11:29	1	S0416007.D	Rxi-5SilMS 0.32(mm)
IC 180-242236/8		04/16/2018 11:57	1	S0416008.D	Rxi-5SilMS 0.32(mm)
IC 180-242236/9		04/16/2018 12:25	1	S0416009.D	Rxi-5SilMS 0.32(mm)
IC 180-242236/10		04/16/2018 12:53	1	S0416010.D	Rxi-5SilMS 0.32(mm)
ICV 180-242236/11		04/16/2018 13:21	1		Rxi-5SilMS 0.32(mm)
ICV 180-242236/12		04/16/2018 13:49	1		Rxi-5SilMS 0.32(mm)
IC 180-242236/14		04/16/2018 14:17	1		Rxi-5SilMS 0.32(mm)
IC 180-242236/15		04/16/2018 14:45	1		Rxi-5SilMS 0.32(mm)
IC 180-242236/16		04/16/2018 15:13	1		Rxi-5SilMS 0.32(mm)
IC 180-242236/17		04/16/2018 15:41	1		Rxi-5SilMS 0.32(mm)
IC 180-242236/18		04/16/2018 16:09	1		Rxi-5SilMS 0.32(mm)
IC 180-242236/19		04/16/2018 16:37	1		Rxi-5SilMS 0.32(mm)
IC 180-242236/20		04/16/2018 17:05	1		Rxi-5SilMS 0.32(mm)
IC 180-242236/21		04/16/2018 17:33	1		Rxi-5SilMS 0.32(mm)
ICV 180-242236/22		04/16/2018 18:01	1		Rxi-5SilMS 0.32(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Instrument ID: CH71 Start Date: 10/13/2018 13:10

Analysis Batch Number: 259743 End Date: 10/14/2018 00:59

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 180-259743/3		10/13/2018 13:10	1	S1013003.D	Rxi-5SilMS 0.32(mm)
CCVIS 180-259743/4		10/13/2018 13:28	1	S1013004.D	Rxi-5SilMS 0.32(mm)
MB 180-259105/1-A		10/13/2018 13:56	1	S1013007.D	Rxi-5SilMS 0.32(mm)
LCS 180-259105/2-A		10/13/2018 14:23	1	S1013008.D	Rxi-5SilMS 0.32(mm)
ZZZZZ		10/13/2018 14:51	2		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/13/2018 15:46	2		Rxi-5SilMS 0.32(mm)
180-82503-A-2-A MS		10/13/2018 16:14	2	S1013012.D	Rxi-5SilMS 0.32(mm)
180-82503-A-2-B MSD		10/13/2018 16:42	2	S1013013.D	Rxi-5SilMS 0.32(mm)
ZZZZZ		10/13/2018 17:09	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/13/2018 17:37	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/13/2018 18:05	2		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/13/2018 18:32	2		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/13/2018 19:00	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/13/2018 19:27	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/13/2018 19:55	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/13/2018 20:23	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/13/2018 20:50	3		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/13/2018 21:18	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/13/2018 21:46	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/13/2018 22:13	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/13/2018 22:41	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/13/2018 23:09	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/13/2018 23:37	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/14/2018 00:04	1		Rxi-5SilMS 0.32(mm)
180-82446-1		10/14/2018 00:32	4	S1013030.D	Rxi-5SilMS 0.32(mm)
180-82446-2		10/14/2018 00:59	5	S1013031.D	Rxi-5SilMS 0.32(mm)

EPA 8270D LL

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Instrument ID: CH71 Start Date: 10/14/2018 13:01

Analysis Batch Number: 259751 End Date: 10/15/2018 00:52

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 180-259751/2		10/14/2018 13:01	1	S1014002.D	Rxi-5SilMS 0.32(mm)
CCVIS 180-259751/3		10/14/2018 13:19	1	S1014003.D	Rxi-5SilMS 0.32(mm)
CCV 180-259751/4		10/14/2018 13:46	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/14/2018 14:14	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/14/2018 14:41	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/14/2018 15:09	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/14/2018 15:37	4		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/14/2018 16:05	10		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/14/2018 16:33	25		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/14/2018 17:00	2		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/14/2018 17:28	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/14/2018 17:56	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/14/2018 18:24	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/14/2018 18:51	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/14/2018 19:19	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/14/2018 19:47	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/14/2018 20:14	2		Rxi-5SilMS 0.32(mm)
180-82446-3		10/14/2018 20:42	10	S1014021.D	Rxi-5SilMS 0.32(mm)
180-82446-4		10/14/2018 21:10	4	S1014022.D	Rxi-5SilMS 0.32(mm)
180-82446-5		10/14/2018 21:38	10	S1014023.D	Rxi-5SilMS 0.32(mm)
180-82446-6		10/14/2018 22:06	5	S1014024.D	Rxi-5SilMS 0.32(mm)
ZZZZZ		10/14/2018 22:33	2		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/14/2018 23:01	2		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/14/2018 23:29	1		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/15/2018 00:24	2		Rxi-5SilMS 0.32(mm)
ZZZZZ		10/15/2018 00:52	1		Rxi-5SilMS 0.32(mm)

EPA 8270D LL

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Batch Number: 259105 Batch Start Date: 10/09/18 04:00 Batch Analyst: Clemente, Shawn A

Batch Method: 3541 Batch End Date: 10/09/18 12:17

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	OPLVISPKMIX1i 00061	OPQL8270SURi 00071		
MB 180-259105/1		3541, EPA 8270D LL		30.0 g	0.5 mL		0.05 mL		
LCS 180-259105/2		3541, EPA 8270D LL		30.0 g	0.5 mL	0.05 mL	0.05 mL		
180-82503-A-2 MS		3541, EPA 8270D LL	T	15.0 g	0.5 mL	0.05 mL	0.05 mL		
180-82503-A-2 MSD		3541, EPA 8270D LL	T	15.4 g	0.5 mL	0.05 mL	0.05 mL		
180-82446-B-1	POS-SED-S12-S1 (0-0.5')	3541, EPA 8270D LL	T	30.2 g	0.5 mL		0.05 mL		
180-82446-C-2	POS-SED-S12-S2 (5-10')	3541, EPA 8270D LL	T	30.0 g	0.5 mL		0.05 mL		
180-82446-B-3	POS-SED-R14-S1 (0-0.5')	3541, EPA 8270D LL	T	30.0 g	0.5 mL		0.05 mL		
180-82446-B-4	POS-SED-R14-S2 (5-10')	3541, EPA 8270D LL	T	30.2 g	0.5 mL		0.05 mL		
180-82446-B-5	POS-SED-L15-S1 (0-0.5')	3541, EPA 8270D LL	T	30.0 g	0.5 mL		0.05 mL		
180-82446-C-6	POS-SED-L15-S2 (5-10')	3541, EPA 8270D LL	T	30.0 g	0.5 mL		0.05 mL		

Batch Notes	
Balance ID	T0358722
Analyst ID - Concentration	SC
Equipment ID - Concentration 2	#2
Exchange Solvent ID	Methylene chloride 2927044
Analyst ID - Extraction	BP
Extraction 1 Start Time	10/09/2018 04:00
Na2SO4 ID	2843233
Prep Solvent ID	Mecl2 / Acetone 2475814
Soxtherm Unit ID	1 2 3 4
Analyst ID - Spike Analyst	BP
Concentration 2 Uncorrected Temperature	35 Degrees C

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Batch Number: 259105 Batch Start Date: 10/09/18 04:00 Batch Analyst: Clemente, Shawn A

Batch Method: 3541 Batch End Date: 10/09/18 12:17

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Pittsburgh Job Number: 180-82446-1

SDG No.:

Project: Harbor Isle

Client Sample ID	Lab Sample ID
POS-SED-S12-S1 (0-0.5')	180-82446-1
POS-SED-S12-S2 (5-10')	180-82446-2
POS-SED-R14-S1 (0-0.5')	180-82446-3
POS-SED-R14-S2 (5-10')	180-82446-4
POS-SED-L15-S1 (0-0.5')	180-82446-5
POS-SED-L15-S2 (5-10')	180-82446-6

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: POS-SED-S12-S1 (0-0.5')
Lab Sample ID: 180-82446-1
Lab Name: TestAmerica Pittsburgh
Job No.: 180-82446-1
SDG ID.:
Matrix: Sediment
Date Sampled: 09/27/2018 10:20
Reporting Basis: DRY
Date Received: 09/28/2018 09:00
% Solids: 83.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	1.5	0.060	0.016	mg/Kg			1	EPA 6020A
7440-43-9	Cadmium	0.074	0.060	0.010	mg/Kg			1	EPA 6020A
7440-47-3	Chromium	6.5	0.12	0.040	mg/Kg			1	EPA 6020A
7440-50-8	Copper	6.8	0.12	0.068	mg/Kg			1	EPA 6020A
7439-92-1	Lead	13.3	0.060	0.022	mg/Kg			1	EPA 6020A
7440-02-0	Nickel	3.3	0.060	0.037	mg/Kg			1	EPA 6020A
7440-22-4	Silver	0.047	0.060	0.0084	mg/Kg	J		1	EPA 6020A
7440-66-6	Zinc	89.5	0.30	0.20	mg/Kg			1	EPA 6020A
7439-97-6	Mercury	0.017	0.020	0.0044	mg/Kg	J		1	EPA 7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: POS-SED-S12-S2 (5-10')

Lab Sample ID: 180-82446-2

Lab Name: TestAmerica Pittsburgh

Job No.: 180-82446-1

SDG ID.:

Matrix: Sediment

Date Sampled: 09/27/2018 10:45

Reporting Basis: DRY

Date Received: 09/28/2018 09:00

% Solids: 77.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	2.7	0.064	0.017	mg/Kg			1	EPA 6020A
7440-43-9	Cadmium	0.12	0.064	0.011	mg/Kg			1	EPA 6020A
7440-47-3	Chromium	12.6	0.13	0.042	mg/Kg			1	EPA 6020A
7440-50-8	Copper	7.1	0.13	0.073	mg/Kg			1	EPA 6020A
7439-92-1	Lead	8.1	0.064	0.023	mg/Kg			1	EPA 6020A
7440-02-0	Nickel	5.4	0.064	0.040	mg/Kg			1	EPA 6020A
7440-22-4	Silver	0.074	0.064	0.0090	mg/Kg			1	EPA 6020A
7440-66-6	Zinc	16.5	0.32	0.21	mg/Kg			1	EPA 6020A
7439-97-6	Mercury	0.0048	0.021	0.0048	mg/Kg	U		1	EPA 7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: POS-SED-R14-S1 (0-0.5')
Lab Sample ID: 180-82446-3
Lab Name: TestAmerica Pittsburgh
Job No.: 180-82446-1
SDG ID.:
Matrix: Sediment
Date Sampled: 09/27/2018 13:35
Reporting Basis: DRY
Date Received: 09/28/2018 09:00
% Solids: 71.7

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	1.9	0.070	0.018	mg/Kg			1	EPA 6020A
7440-43-9	Cadmium	0.10	0.070	0.012	mg/Kg			1	EPA 6020A
7440-47-3	Chromium	7.6	0.14	0.046	mg/Kg			1	EPA 6020A
7440-50-8	Copper	7.1	0.14	0.080	mg/Kg			1	EPA 6020A
7439-92-1	Lead	20.7	0.070	0.025	mg/Kg			1	EPA 6020A
7440-02-0	Nickel	3.6	0.070	0.044	mg/Kg			1	EPA 6020A
7440-22-4	Silver	0.093	0.070	0.0099	mg/Kg			1	EPA 6020A
7440-66-6	Zinc	21.3	0.35	0.24	mg/Kg			1	EPA 6020A
7439-97-6	Mercury	0.033	0.022	0.0049	mg/Kg			1	EPA 7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: POS-SED-R14-S2 (5-10')

Lab Sample ID: 180-82446-4

Lab Name: TestAmerica Pittsburgh

Job No.: 180-82446-1

SDG ID.:

Matrix: Sediment

Date Sampled: 09/27/2018 13:35

Reporting Basis: DRY

Date Received: 09/28/2018 09:00

% Solids: 69.8

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	4.3	0.072	0.019	mg/Kg			1	EPA 6020A
7440-43-9	Cadmium	0.29	0.072	0.012	mg/Kg			1	EPA 6020A
7440-47-3	Chromium	17.7	0.14	0.048	mg/Kg			1	EPA 6020A
7440-50-8	Copper	7.3	0.14	0.082	mg/Kg			1	EPA 6020A
7439-92-1	Lead	7.3	0.072	0.026	mg/Kg			1	EPA 6020A
7440-02-0	Nickel	9.2	0.072	0.045	mg/Kg			1	EPA 6020A
7440-22-4	Silver	0.040	0.072	0.010	mg/Kg	J		1	EPA 6020A
7440-66-6	Zinc	25.6	0.36	0.24	mg/Kg			1	EPA 6020A
7439-97-6	Mercury	0.0084	0.024	0.0054	mg/Kg	J		1	EPA 7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: POS-SED-L15-S1 (0-0.5')
Lab Sample ID: 180-82446-5
Lab Name: TestAmerica Pittsburgh
Job No.: 180-82446-1
SDG ID.:
Matrix: Sediment
Date Sampled: 09/27/2018 15:20
Reporting Basis: DRY
Date Received: 09/28/2018 09:00
% Solids: 81.8

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	1.6	0.061	0.016	mg/Kg			1	EPA 6020A
7440-43-9	Cadmium	0.17	0.061	0.010	mg/Kg			1	EPA 6020A
7440-47-3	Chromium	7.4	0.12	0.041	mg/Kg			1	EPA 6020A
7440-50-8	Copper	15.5	0.12	0.070	mg/Kg			1	EPA 6020A
7439-92-1	Lead	46.2	0.061	0.022	mg/Kg			1	EPA 6020A
7440-02-0	Nickel	4.9	0.061	0.038	mg/Kg			1	EPA 6020A
7440-22-4	Silver	0.14	0.061	0.0086	mg/Kg			1	EPA 6020A
7440-66-6	Zinc	41.1	0.31	0.21	mg/Kg			1	EPA 6020A
7439-97-6	Mercury	0.026	0.021	0.0046	mg/Kg			1	EPA 7471B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: POS-SED-L15-S2 (5-10')

Lab Sample ID: 180-82446-6

Lab Name: TestAmerica Pittsburgh

Job No.: 180-82446-1

SDG ID.:

Matrix: Sediment

Date Sampled: 09/27/2018 15:30

Reporting Basis: DRY

Date Received: 09/28/2018 09:00

% Solids: 63.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	9.1	0.080	0.021	mg/Kg			1	EPA 6020A
7440-43-9	Cadmium	0.49	0.080	0.014	mg/Kg			1	EPA 6020A
7440-47-3	Chromium	31.0	0.16	0.053	mg/Kg			1	EPA 6020A
7440-50-8	Copper	20.0	0.16	0.091	mg/Kg			1	EPA 6020A
7439-92-1	Lead	22.1	0.080	0.029	mg/Kg			1	EPA 6020A
7440-02-0	Nickel	15.0	0.080	0.049	mg/Kg			1	EPA 6020A
7440-22-4	Silver	0.22	0.080	0.011	mg/Kg			1	EPA 6020A
7440-66-6	Zinc	56.9	0.40	0.27	mg/Kg			1	EPA 6020A
7439-97-6	Mercury	0.15	0.026	0.0058	mg/Kg			1	EPA 7471B

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

ICV Source: MICVX A_00017 Concentration Units: ug/L

CCV Source: MCCV1X A_00042

Analyte	ICV 180-259407/5 10/09/2018 20:11				CCV 180-259407/10 10/09/2018 20:35				CCV 180-259407/22 10/09/2018 21:35			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	81.77		80.0	102	99.53		100	100	101.0		100	101
Cadmium	82.57		80.0	103	102.9		100	103	100.9		100	101
Chromium	80.38		80.0	100	94.96		100	95	95.76		100	96
Copper	82.58		80.0	103	100.0		100	100	102.8		100	103
Lead	81.37		80.0	102	103.6		100	104	102.4		100	102
Nickel	81.02		80.0	101	98.93		100	99	100.1		100	100
Silver	79.93		80.0	100	96.24		100	96	97.27		100	97
Zinc	81.28		80.0	102	100.1		100	100	101.0		100	101

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

ICV Source: MICVX A_00017 Concentration Units: ug/L

CCV Source: MCCV1X A_00042

Analyte	CCV 180-259407/34 10/09/2018 22:34				CCV 180-259407/46 10/09/2018 23:37							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	97.53		100	98	96.10		100	96				
Cadmium	101.5		100	102	101.9		100	102				
Chromium	94.34		100	94	96.91		100	97				
Copper	101.4		100	101	100.7		100	101				
Lead	101.3		100	101	101.7		100	102				
Nickel	100.4		100	100	99.62		100	100				
Silver	96.43		100	96	94.61		100	95				
Zinc	97.50		100	97	99.41		100	99				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

ICV Source: MCRIX A_00047 Concentration Units: ug/L

CCV Source: MCRIX A_00047

Analyte	ICVL 180-259407/7 10/09/2018 20:21				CCVL 180-259407/65 10/10/2018 01:14							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	1.01		1.00	101	0.978	J	1.00	98				
Cadmium	0.951	J	1.00	95	1.05		1.00	105				
Chromium	2.05		2.00	102	1.91	J	2.00	95				
Copper	2.23		2.00	111	2.29		2.00	115				
Lead	1.15		1.00	115	1.10		1.00	110				
Nickel	1.11		1.00	111	1.17		1.00	117				
Silver	1.04		1.00	104	1.02		1.00	102				
Zinc	5.54		5.00	111	5.43		5.00	109				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

ICV Source: MHgWorkingicv_01847 Concentration Units: ug/L

CCV Source: MHgworkingCal_01884

Analyte	ICV 180-258211/7-A 10/02/2018 15:03				CCV 180-258211/10-A 10/02/2018 15:06				CCV 180-258211/10-A 10/02/2018 16:28			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	2.52		2.50	101	5.04		5.00	101	4.94		5.00	99

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

ICV Source: MHgWorkingicv_01847 Concentration Units: ug/L

CCV Source: MHgworkingCal_01884

Analyte	CCV 180-258211/10-A 10/02/2018 16:40				CCV 180-258211/10-A 10/02/2018 16:51							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	4.91		5.00	98	4.89		5.00	98				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Method: EPA 7471B Instrument ID: HGZ

Lab Sample ID: CRA 180-258211/9-A Concentration Units: ug/L

CRQL Check Standard Source: MHgworkingCal_01884

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.161	J	81	70-130

Lab Sample ID: CRA 180-258211/9-A Concentration Units: ug/L

CRQL Check Standard Source: MHgworkingCal_01884

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.155	J	78	70-130

Lab Sample ID: CRA 180-258211/9-A Concentration Units: ug/L

CRQL Check Standard Source: MHgworkingCal_01884

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.171	J	86	70-130

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 180-259407/6 10/09/2018 20:16		CCB1 180-259407/11 10/09/2018 20:40		CCB2 180-259407/23 10/09/2018 21:39		CCB3 180-259407/35 10/09/2018 22:39	
		Found	C	Found	C	Found	C	Found	C
Arsenic	1.0	0.32	U	0.32	U	0.32	U	0.32	U
Cadmium	1.0	0.13	U	0.13	U	0.13	U	0.13	U
Chromium	2.0	0.63	U	0.63	U	0.63	U	0.63	U
Copper	2.0	1.3	U	1.3	U	1.3	U	1.3	U
Lead	1.0	0.094	U	0.094	U	0.094	U	0.094	U
Nickel	1.0	0.31	U	0.31	U	0.526	J	0.332	J
Silver	1.0	0.12	U	0.12	U	0.12	U	0.12	U
Zinc	5.0	2.4	U	2.4	U	2.4	U	2.4	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	CCB4 180-259407/47 10/09/2018 23:42							
		Found	C	Found	C	Found	C	Found	C
Arsenic	1.0	0.32	U						
Cadmium	1.0	0.13	U						
Chromium	2.0	0.63	U						
Copper	2.0	1.3	U						
Lead	1.0	0.094	U						
Nickel	1.0	0.458	J						
Silver	1.0	0.12	U						
Zinc	5.0	2.4	U						

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 180-258211/8-A 10/02/2018 15:04		CCB 180-258211/11-A 10/02/2018 15:06		CCB 180-258211/11-A 10/02/2018 16:29		CCB 180-258211/11-A 10/02/2018 16:41	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	0.052	U	0.052	U	0.052	U	0.052	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	CCB 180-258211/11-A 10/02/2018 16:52							
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	0.052	U						

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 180-258603/1-A

Instrument Code: M Batch No.: 259407

CAS No.	Analyte	Concentration	C	Q	Method
7440-38-2	Arsenic	0.013	U		6020A
7440-43-9	Cadmium	0.0085	U		6020A
7440-47-3	Chromium	0.033	U		6020A
7440-50-8	Copper	0.057	U		6020A
7439-92-1	Lead	0.018	U		6020A
7440-02-0	Nickel	0.031	U		6020A
7440-22-4	Silver	0.0070	U		6020A
7440-66-6	Zinc	0.17	U		6020A

FORM III-IN

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 180-258467/1-A

Instrument Code: HGZ Batch No.: 258606

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.0037	U		7471B

FORM III-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Lab Sample ID: ICSA 180-259407/8 Instrument ID: M

Lab File ID: M81009A.xml ICS Source: MICSAX_00134

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Arsenic		**0.117**	
Cadmium		**1.09**	
Chromium		**0.360**	
Copper		**0.572**	
Lead		**0.145**	
Nickel		**0.166**	
Silver		**0.0630**	
Zinc		**2.22**	
Aluminum	*100000*	*96050*	*96*
Antimony		*0.144*	
Barium		*0.0360*	
Beryllium		*0.0140*	
Boron		*0.592*	
Calcium	*100000*	*95210*	*95*
Cobalt		*0.0160*	
Iron	*100000*	*94720*	*95*
Lithium		*-0.333*	
Magnesium	*100000*	*96190*	*96*
Manganese		*0.273*	
Molybdenum	*2000*	*1966*	*98*
Potassium	*100000*	*95530*	*96*
Selenium		*0.117*	
Silicon		*-96.8*	
Sodium	*100000*	*97490*	*97*
Strontium		*0.895*	
Thallium		*0.0110*	
Tin		*0.0420*	
Titanium	*2000*	*2255*	*113*
Vanadium		*0.0660*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Lab Sample ID: ICSAB 180-259407/9 Instrument ID: M

Lab File ID: M81009A.xml ICS Source: MICSABX A_00037

Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Arsenic	**20.0**	**21.1**	**106**
Cadmium	**20.0**	**22.6**	**113**
Chromium	**20.0**	**19.5**	**98**
Copper	**20.0**	**20.5**	**102**
Lead	**20.0**	**21.2**	**106**
Nickel	**20.0**	**19.7**	**98**
Silver	**20.0**	**20.9**	**104**
Zinc	**22.0**	**23.5**	**107**
Aluminum	*100000*	*101830*	*102*
Antimony	*20.0*	*21.1*	*106*
Barium	*20.0*	*20.3*	*101*
Beryllium	*20.0*	*20.6*	*103*
Boron	*50.0*	*47.8*	*96*
Calcium	*100000*	*101167*	*101*
Cobalt	*20.0*	*19.4*	*97*
Iron	*100000*	*97010*	*97*
Lithium	*20.0*	*20.6*	*103*
Magnesium	*100000*	*102113*	*102*
Manganese	*22.0*	*20.6*	*94*
Molybdenum	*2000*	*2098*	*105*
Potassium	*100000*	*101383*	*101*
Selenium	*50.0*	*53.8*	*108*
Sodium	*100000*	*103980*	*104*
Strontium	*25.0*	*20.2*	*81*
Thallium	*20.0*	*20.0*	*100*
Tin	*100*	*103*	*103*
Titanium	*2000*	*2363*	*118*
Vanadium	*20.0*	*18.2*	*91*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID:
Lab ID: 180-82379-A-1-B MS
Lab Name: TestAmerica Pittsburgh
Job No.: 180-82446-1
SDG No.:
Matrix: Sediment
Concentration Units: mg/Kg
% Solids: 85.0

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury	0.112		0.018	J	0.0996	93	80-120		EPA 7471B

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID:

Lab ID: 180-82502-B-5-B MS

Lab Name: TestAmerica Pittsburgh

Job No.: 180-82446-1

SDG No.:

Matrix: Sediment

Concentration Units: mg/Kg

% Solids: 74.6

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	7.94		5.2		2.74	101	75-125		EPA 6020A
Cadmium	3.81		0.38		3.42	100	75-125		EPA 6020A
Chromium	29.75		16.3		13.7	99	75-125		EPA 6020A
Copper	20.01		4.3		17.1	92	75-125		EPA 6020A
Lead	6.94		5.2		1.37	131	75-125	F1	EPA 6020A
Nickel	38.28		8.2		34.2	88	75-125		EPA 6020A
Silver	3.47		0.029	J	3.42	101	75-125		EPA 6020A
Zinc	56.29		24.6		34.2	93	75-125		EPA 6020A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID:

Lab ID: 180-82379-A-1-C MSD

Lab Name: TestAmerica Pittsburgh

Job No.: 180-82446-1

SDG No.:

Matrix: Sediment

Concentration Units: mg/Kg

% Solids: 85.0

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury	0.133		0.0972	117	80-120	17	20		EPA 7471B

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VD - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID:

Lab ID: 180-82502-B-5-C MSD

Lab Name: TestAmerica Pittsburgh

Job No.: 180-82446-1

SDG No.:

Matrix: Sediment

Concentration Units: mg/Kg

% Solids: 74.6

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Arsenic	7.70		2.63	95	75-125	3	20		EPA 6020A
Cadmium	3.73		3.29	102	75-125	2	20		EPA 6020A
Chromium	29.32		13.1	99	75-125	1	20		EPA 6020A
Copper	19.04		16.4	90	75-125	5	20		EPA 6020A
Lead	6.91		1.31	134	75-125	1	20	F1	EPA 6020A
Nickel	36.82		32.9	87	75-125	4	20		EPA 6020A
Silver	3.34		3.29	101	75-125	4	20		EPA 6020A
Zinc	54.34		32.9	91	75-125	4	20		EPA 6020A

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VD - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: _____ Lab ID: 180-82502-B-5-A PDS

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.: _____

Matrix: Sediment Concentration Units: mg/Kg

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	7.80		5.2		2.71	96	75-125		EPA 6020A
Cadmium	3.93		0.38		3.39	105	75-125		EPA 6020A
Chromium	28.19		16.3		13.5	88	75-125		EPA 6020A
Copper	20.23		4.3		16.9	94	75-125		EPA 6020A
Lead	6.60		5.2		1.35	107	75-125		EPA 6020A
Nickel	38.57		8.2		33.9	90	75-125		EPA 6020A
Silver	3.52		0.029	J	3.39	103	75-125		EPA 6020A
Zinc	55.02		24.6		33.9	90	75-125		EPA 6020A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VB - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 180-258603/2-A

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

Sample Matrix: Sediment LCS Source: MTAPITTICPMS_00031

Analyte	Sediment(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	2.00	1.98		99	80	120		EPA 6020A
Cadmium	2.50	2.68		107	80	120		EPA 6020A
Chromium	10.0	9.59		96	80	120		EPA 6020A
Copper	12.5	13.83		111	80	120		EPA 6020A
Lead	1.00	1.09		109	80	120		EPA 6020A
Nickel	25.0	24.66		99	80	120		EPA 6020A
Silver	2.50	2.68		107	80	120		EPA 6020A
Zinc	25.0	24.31		97	80	120		EPA 6020A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 180-258467/2-A

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

Sample Matrix: Sediment LCS Source: MHgworkingCal_01884

Analyte	Sediment(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Mercury	0.208	0.198		95	80	120		EPA 7471B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 180-82502-B-5-A SD ^5

SDG No:

Lab Name: TestAmerica Pittsburgh Job No: 180-82446-1

Matrix: Sediment Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Arsenic	5.2		5.28		1.7		EPA 6020A
Cadmium	0.38		0.394		NC		EPA 6020A
Chromium	16.3		15.89		2.3		EPA 6020A
Copper	4.3		4.57		5.5		EPA 6020A
Lead	5.2		5.01		2.7		EPA 6020A
Nickel	8.2		8.56		3.9		EPA 6020A
Silver	0.029	J	0.047	U	NC		EPA 6020A
Zinc	24.6		24.92		1.4		EPA 6020A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Pittsburgh Job Number: 180-82446-1

SDG Number:

Matrix: Sediment Instrument ID: M

Method: EPA 6020A MDL Date: 01/22/2018 14:22

Prep Method: 3050B

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Arsenic	75	0.05	0.013
Cadmium	111	0.05	0.0085
Chromium	52	0.1	0.033
Copper	65	0.1	0.057
Lead	208	0.05	0.018
Nickel	60	0.05	0.031
Silver	107	0.05	0.007
Zinc	66	0.25	0.167

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Pittsburgh Job Number: 180-82446-1

SDG Number:

Matrix: Sediment Instrument ID: M

Method: EPA 6020A XMDL Date: 01/22/2018 14:22

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Arsenic	75	1	0.323
Cadmium	111	1	0.125
Chromium	52	2	0.631
Copper	65	2	1.3
Lead	208	1	0.094
Nickel	60	1	0.312
Silver	107	1	0.121
Zinc	66	5	2.42

FORM IX - IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Pittsburgh Job Number: 180-82446-1

SDG Number:

Matrix: Sediment Instrument ID: HGZ

Method: EPA 7471B MDL Date: 02/10/2016 13:22

Prep Method: 7471B

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Mercury	253.7	0.0165	0.003695

FORM IX - IN

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Pittsburgh Job Number: 180-82446-1

SDG Number:

Matrix: Sediment Instrument ID: HGZ

Method: EPA 7471B XMDL Date: 02/10/2016 13:23

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Mercury	253.7	0.2	0.0521

FORM IX - IN

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Pittsburgh Job No: 180-82446-1

SDG No.:

Instrument ID: M Date: 03/14/2011 22:35

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Arsenic		4500	EPA 6020A
Cadmium		13500	EPA 6020A
Chromium		22500	EPA 6020A
Copper		22500	EPA 6020A
Lead		22500	EPA 6020A
Nickel		22500	EPA 6020A
Silver		2500	EPA 6020A
Zinc		22500	EPA 6020A

FORM XI - IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 180-258603/1-A	10/02/2018 17:31	258603	2.0		100
LCS 180-258603/2-A	10/02/2018 17:31	258603	2.0		100
180-82502-B-5-B MS	10/02/2018 17:31	258603	1.96		100
180-82502-B-5-C MSD	10/02/2018 17:31	258603	2.04		100
180-82446-1	10/02/2018 17:31	258603	2.01		100
180-82446-2	10/02/2018 17:31	258603	2.02		100
180-82446-3	10/02/2018 17:31	258603	1.98		100
180-82446-4	10/02/2018 17:31	258603	1.99		100
180-82446-5	10/02/2018 17:31	258603	1.99		100
180-82446-6	10/02/2018 17:31	258603	1.98		100

FORM XII-IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Prep Method: 7471B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 180-258467/1-A	10/01/2018 17:56	258467	1.2		100
LCS 180-258467/2-A	10/01/2018 17:56	258467	1.2		100
180-82379-A-1-B MS	10/01/2018 17:56	258467	1.18		100
180-82379-A-1-C MSD	10/01/2018 17:56	258467	1.21		100
180-82446-1	10/01/2018 17:56	258467	1.20		100
180-82446-2	10/01/2018 17:56	258467	1.19		100
180-82446-3	10/01/2018 17:56	258467	1.25		100
180-82446-4	10/01/2018 17:56	258467	1.18		100
180-82446-5	10/01/2018 17:56	258467	1.18		100
180-82446-6	10/01/2018 17:56	258467	1.21		100

FORM XII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Instrument ID: M Method: EPA 6020A

Start Date: 10/09/2018 14:22 End Date: 10/10/2018 02:00

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	As	Cd	Cr	Cu	Ni	Pb	Zn												
ITUNE 180-259407/1			14:22																				
STD1 180-259407/2 IC	1		19:57	X	X	X	X	X	X	X	X												
STD2 180-259407/3 IC	1		20:02	X	X	X	X	X	X	X	X												
STD3 180-259407/4 IC	1		20:07	X	X	X	X	X	X	X	X												
ICV 180-259407/5	1		20:11	X	X	X	X	X	X	X	X												
ICB 180-259407/6	1		20:16	X	X	X	X	X	X	X	X												
ICVL 180-259407/7	1		20:21	X	X	X	X	X	X	X	X												
ICSA 180-259407/8	1		20:26	X	X	X	X	X	X	X	X												
ICSAB 180-259407/9	1		20:31	X	X	X	X	X	X	X	X												
CCV 180-259407/10	1		20:35	X	X	X	X	X	X	X	X												
CCB1 180-259407/11	1		20:40	X	X	X	X	X	X	X	X												
MB 180-258603/1-A	1	T	20:45	X	X	X	X	X	X	X	X												
LCS 180-258603/2-A	1	T	20:49	X	X	X	X	X	X	X	X												
ZZZZZZ			20:54																				
ZZZZZZ			20:59																				
ZZZZZZ			21:03																				
ZZZZZZ			21:08																				
ZZZZZZ			21:12																				
ZZZZZZ			21:17																				
ZZZZZZ			21:22																				
ZZZZZZ			21:26																				
CCV 180-259407/22	1		21:35	X	X	X	X	X	X	X	X												
CCB2 180-259407/23	1		21:39	X	X	X	X	X	X	X	X												
ZZZZZZ			21:44																				
180-82502-B-5-A SD ^5	5	T	21:49	X	X	X	X	X	X	X	X												
180-82502-B-5-B MS	1	T	21:53	X	X	X	X	X	X	X	X												
180-82502-B-5-C MSD	1	T	21:58	X	X	X	X	X	X	X	X												
180-82502-B-5-A PDS	1	T	22:02	X	X	X	X	X	X	X	X												
ZZZZZZ			22:07																				
ZZZZZZ			22:12																				
ZZZZZZ			22:16																				
ZZZZZZ			22:21																				
180-82446-1	1	T	22:26	X	X	X	X	X	X	X	X												
CCV 180-259407/34	1		22:34	X	X	X	X	X	X	X	X												
CCB3 180-259407/35	1		22:39	X	X	X	X	X	X	X	X												
180-82446-2	1	T	22:43	X	X	X	X	X	X	X	X												
180-82446-3	1	T	22:48	X	X	X	X	X	X	X	X												
180-82446-4	1	T	22:53	X	X	X	X	X	X	X	X												
180-82446-5	1	T	22:57	X	X	X	X	X	X	X	X												
180-82446-6	1	T	23:02	X	X	X	X	X	X	X	X												
ZZZZZZ			23:11																				
ZZZZZZ			23:15																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Instrument ID: M Method: EPA 6020A

Start Date: 10/09/2018 14:22 End Date: 10/10/2018 02:00

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	As	Cd	Cr	Cu	Ni	Pb	Zn												
ZZZZZZ			23:20																				
ZZZZZZ			23:24																				
ZZZZZZ			23:29																				
CCV 180-259407/46	1		23:37	X	X	X	X	X	X	X	X												
CCB4 180-259407/47	1		23:42	X	X	X	X	X	X	X	X												
ZZZZZZ			23:47																				
ZZZZZZ			23:51																				
ZZZZZZ			23:56																				
ZZZZZZ			00:01																				
ZZZZZZ			00:05																				
ZZZZZZ			00:10																				
ZZZZZZ			00:14																				
ZZZZZZ			00:19																				
ZZZZZZ			00:24																				
ZZZZZZ			00:28																				
CCV 180-259407/58			00:37																				
CCB5 180-259407/59			00:41																				
ZZZZZZ			00:46																				
ZZZZZZ			00:51																				
ZZZZZZ			00:55																				
ZZZZZZ			01:00																				
ZZZZZZ			01:04																				
CCVL 180-259407/65	1		01:14	X	X	X	X	X	X	X	X												
CCV 180-259407/66			01:18																				
CCB6 180-259407/67			01:23																				
ZZZZZZ			01:28																				
ZZZZZZ			01:32																				
ZZZZZZ			01:37																				
ZZZZZZ			01:42																				
ZZZZZZ			01:46																				
ZZZZZZ			01:51																				
CCV 180-259407/74			01:55																				
CCB7 180-259407/75			02:00																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Instrument ID: HGZ Method: EPA 7471B

Start Date: 10/02/2018 14:55 End Date: 10/02/2018 17:59

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
IC 180-258211/1-A			14:55	X																			
IC 180-258211/2-A			14:56	X																			
IC 180-258211/3-A			14:57	X																			
IC 180-258211/4-A			14:58	X																			
IC 180-258211/5-A			14:59	X																			
IC 180-258211/6-A			15:00	X																			
ICV 180-258211/7-A	1		15:03	X																			
ICB 180-258211/8-A	1		15:04	X																			
CRA 180-258211/9-A	1		15:05	X																			
CCV 180-258211/10-A	1		15:06	X																			
CCB 180-258211/11-A	1		15:06	X																			
ZZZZZZ			15:07																				
ZZZZZZ			15:08																				
ZZZZZZ			15:09																				
ZZZZZZ			15:10																				
ZZZZZZ			15:11																				
ZZZZZZ			15:12																				
ZZZZZZ			15:13																				
ZZZZZZ			15:14																				
ZZZZZZ			15:15																				
ZZZZZZ			15:16																				
CCV 180-258211/10-A			15:17																				
CCB 180-258211/11-A			15:18																				
ZZZZZZ			15:19																				
ZZZZZZ			15:20																				
ZZZZZZ			15:21																				
ZZZZZZ			15:22																				
ZZZZZZ			15:23																				
ZZZZZZ			15:24																				
ZZZZZZ			15:25																				
ZZZZZZ			15:26																				
ZZZZZZ			15:27																				
ZZZZZZ			15:27																				
CCV 180-258211/10-A			15:28																				
CCB 180-258211/11-A			15:29																				
ZZZZZZ			15:30																				
ZZZZZZ			15:31																				
ZZZZZZ			15:32																				
ZZZZZZ			15:33																				
ZZZZZZ			15:34																				
ZZZZZZ			15:35																				
ZZZZZZ			15:36																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Instrument ID: HGZ Method: EPA 7471B

Start Date: 10/02/2018 14:55 End Date: 10/02/2018 17:59

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			15:37																				
ZZZZZZ			15:38																				
ZZZZZZ			15:39																				
CCV 180-258211/10-A			15:40																				
CCB 180-258211/11-A			15:41																				
ZZZZZZ			15:42																				
ZZZZZZ			15:43																				
ZZZZZZ			15:44																				
ZZZZZZ			15:45																				
ZZZZZZ			15:46																				
ZZZZZZ			15:47																				
ZZZZZZ			15:48																				
ZZZZZZ			15:49																				
ZZZZZZ			15:50																				
ZZZZZZ			15:50																				
CCV 180-258211/10-A			15:51																				
CCB 180-258211/11-A			15:52																				
ZZZZZZ			15:53																				
ZZZZZZ			15:54																				
ZZZZZZ			15:55																				
ZZZZZZ			15:56																				
ZZZZZZ			15:57																				
ZZZZZZ			15:58																				
ZZZZZZ			15:59																				
ZZZZZZ			16:00																				
ZZZZZZ			16:01																				
ZZZZZZ			16:02																				
CCV 180-258211/10-A			16:03																				
CCB 180-258211/11-A			16:04																				
ZZZZZZ			16:05																				
ZZZZZZ			16:06																				
ZZZZZZ			16:07																				
ZZZZZZ			16:08																				
ZZZZZZ			16:09																				
ZZZZZZ			16:10																				
ZZZZZZ			16:11																				
ZZZZZZ			16:12																				
ZZZZZZ			16:13																				
ZZZZZZ			16:13																				
CRA 180-258211/9-A	1		16:14	X																			
CCV 180-258211/10-A			16:15																				
CCB 180-258211/11-A			16:16																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Instrument ID: HGZ Method: EPA 7471B

Start Date: 10/02/2018 14:55 End Date: 10/02/2018 17:59

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			16:17																				
ZZZZZZ			16:18																				
ZZZZZZ			16:19																				
ZZZZZZ			16:20																				
ZZZZZZ			16:21																				
ZZZZZZ			16:22																				
ZZZZZZ			16:23																				
ZZZZZZ			16:24																				
ZZZZZZ			16:26																				
ZZZZZZ			16:27																				
CCV 180-258211/10-A	1		16:28	X																			
CCB 180-258211/11-A	1		16:29	X																			
MB 180-258467/1-A	1	T	16:30	X																			
LCS 180-258467/2-A	1	T	16:31	X																			
ZZZZZZ			16:32																				
180-82379-A-1-B MS	1	T	16:33	X																			
180-82379-A-1-C MSD	1	T	16:34	X																			
ZZZZZZ			16:35																				
ZZZZZZ			16:36																				
180-82446-1	1	T	16:37	X																			
180-82446-2	1	T	16:38	X																			
180-82446-3	1	T	16:39	X																			
CCV 180-258211/10-A	1		16:40	X																			
CCB 180-258211/11-A	1		16:41	X																			
180-82446-4	1	T	16:41	X																			
180-82446-5	1	T	16:42	X																			
180-82446-6	1	T	16:43	X																			
ZZZZZZ			16:44																				
ZZZZZZ			16:45																				
ZZZZZZ			16:46																				
ZZZZZZ			16:47																				
ZZZZZZ			16:48																				
ZZZZZZ			16:49																				
ZZZZZZ			16:50																				
CCV 180-258211/10-A	1		16:51	X																			
CCB 180-258211/11-A	1		16:52	X																			
ZZZZZZ			16:53																				
ZZZZZZ			16:54																				
ZZZZZZ			16:55																				
ZZZZZZ			16:56																				
ZZZZZZ			16:57																				
ZZZZZZ			16:58																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Instrument ID: HGZ Method: EPA 7471B

Start Date: 10/02/2018 14:55 End Date: 10/02/2018 17:59

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			16:59																				
ZZZZZZ			17:00																				
ZZZZZZ			17:01																				
ZZZZZZ			17:02																				
CCV 180-258211/10-A			17:03																				
CCB 180-258211/11-A			17:04																				
ZZZZZZ			17:05																				
ZZZZZZ			17:06																				
ZZZZZZ			17:07																				
ZZZZZZ			17:07																				
ZZZZZZ			17:08																				
ZZZZZZ			17:09																				
ZZZZZZ			17:10																				
ZZZZZZ			17:11																				
ZZZZZZ			17:12																				
ZZZZZZ			17:13																				
CCV 180-258211/10-A			17:14																				
CCB 180-258211/11-A			17:15																				
ZZZZZZ			17:16																				
ZZZZZZ			17:17																				
ZZZZZZ			17:18																				
ZZZZZZ			17:19																				
ZZZZZZ			17:20																				
ZZZZZZ			17:21																				
ZZZZZZ			17:22																				
ZZZZZZ			17:23																				
ZZZZZZ			17:24																				
ZZZZZZ			17:25																				
CRA 180-258211/9-A	1		17:26	X																			
CCV 180-258211/10-A			17:27																				
CCB 180-258211/11-A			17:28																				
ZZZZZZ			17:29																				
ZZZZZZ			17:30																				
ZZZZZZ			17:31																				
ZZZZZZ			17:32																				
ZZZZZZ			17:33																				
ZZZZZZ			17:34																				
ZZZZZZ			17:35																				
ZZZZZZ			17:36																				
ZZZZZZ			17:37																				
ZZZZZZ			17:37																				
CCV 180-258211/10-A			17:38																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Instrument ID: HGZ Method: EPA 7471B

Start Date: 10/02/2018 14:55 End Date: 10/02/2018 17:59

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
CCB 180-258211/11-A			17:39																				
ZZZZZZ			17:40																				
ZZZZZZ			17:41																				
ZZZZZZ			17:42																				
ZZZZZZ			17:43																				
ZZZZZZ			17:44																				
ZZZZZZ			17:45																				
ZZZZZZ			17:46																				
ZZZZZZ			17:47																				
ZZZZZZ			17:48																				
ZZZZZZ			17:49																				
CCV 180-258211/10-A			17:50																				
CCB 180-258211/11-A			17:51																				
ZZZZZZ			17:52																				
ZZZZZZ			17:53																				
ZZZZZZ			17:54																				
ZZZZZZ			17:55																				
ZZZZZZ			17:56																				
CRA 180-258211/9-A			17:57																				
CCV 180-258211/10-A			17:58																				
CCB 180-258211/11-A			17:59																				

Prep Types
T = Total/NA

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

ICP-MS Instrument ID: M Start Date: 10/09/2018 End Date: 10/10/2018

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc	Q	Element Y-89	Q	Element Rh-103	Q	Element In	Q
STD1 180-259407/2 IC	19:57	100		100		100		100		100	
STD2 180-259407/3 IC	20:02	98		99		99		95		97	
STD3 180-259407/4 IC	20:07	98		100		95		95		95	
ICV 180-259407/5	20:11	103		105		104		103		102	
ICB 180-259407/6	20:16	102		110		107		106		105	
ICVL 180-259407/7	20:21	107		112		104		104		102	
ICSA 180-259407/8	20:26	99		98		96		91		93	
ICSAB 180-259407/9	20:31	101		101		91		88		88	
CCV 180-259407/10	20:35	102		107		97		95		95	
CCB1 180-259407/11	20:40	103		109		103		103		101	
MB 180-258603/1-A	20:45	101		103		91		94		109	
LCS 180-258603/2-A	20:49	106		95		79		81		78	
CCV 180-259407/22	21:35	98		97		88		88		87	
CCB2 180-259407/23	21:39	99		101		93		95		93	
180-82502-B-5-A SD ^5	21:49	96		84		82		77		75	
180-82502-B-5-B MS	21:53	109		82				68		66	
180-82502-B-5-C MSD	21:58	106		80				65		62	
180-82502-B-5-A PDS	22:02	100		78				64		63	
180-82446-1	22:26	109		78				70		67	
CCV 180-259407/34	22:34	96		99		91		90		88	
CCB3 180-259407/35	22:39	98		101		93		95		93	
180-82446-2	22:43	112		83				75		73	
180-82446-3	22:48	110		88				76		74	
180-82446-4	22:53	119		96				81		78	
180-82446-5	22:57	109		81				67		65	
180-82446-6	23:02	115		88				77		74	
CCV 180-259407/46	23:37	84		77		77		75		75	
CCB4 180-259407/47	23:42	87		89		83		86		85	
CCVL 180-259407/65	01:14	87		81		73		77		76	

FORM XV - IN

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

ICP-MS Instrument ID: M Start Date: 10/09/2018 End Date: 10/10/2018

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Tb	Q	Element Bi	Q	Element	Q	Element	Q	Element	Q
STD1 180-259407/2 IC	19:57	100		100							
STD2 180-259407/3 IC	20:02	98		92							
STD3 180-259407/4 IC	20:07	87		68							
ICV 180-259407/5	20:11	100		94							
ICB 180-259407/6	20:16	103		98							
ICVL 180-259407/7	20:21	100		95							
ICSA 180-259407/8	20:26	95		89							
ICSAB 180-259407/9	20:31	88		76							
CCV 180-259407/10	20:35	93		81							
CCB1 180-259407/11	20:40	98		93							
MB 180-258603/1-A	20:45	99		93							
LCS 180-258603/2-A	20:49	86		85							
CCV 180-259407/22	21:35	89		83							
CCB2 180-259407/23	21:39	92		86							
180-82502-B-5-A SD ^5	21:49	81		78							
180-82502-B-5-B MS	21:53	80		72							
180-82502-B-5-C MSD	21:58	77		68							
180-82502-B-5-A PDS	22:02	73		58							
180-82446-1	22:26	76		71							
CCV 180-259407/34	22:34	93		94							
CCB3 180-259407/35	22:39	96		98							
180-82446-2	22:43	80		68							
180-82446-3	22:48	82		80							
180-82446-4	22:53	89		82							
180-82446-5	22:57	74		73							
180-82446-6	23:02	83		64							
CCV 180-259407/46	23:37	77		66							
CCB4 180-259407/47	23:42	87		87							
CCVL 180-259407/65	01:14	79		81							

FORM XV - IN

Dilution Corrected Concentrations

STD1 2891699 10/9/2018 7:57:35 PM

User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:56:41	99.634%	0.425	-0.015	-0.192	-0.132	0.000	-0.578	-0.185
2	19:56:49	99.769%	-0.011	0.011	0.235	-0.070	0.000	2.741	-0.079
3	19:56:57	100.597%	-0.414	0.004	-0.043	0.202	0.000	-2.163	0.264
x		100.000%	0.000	-0.000	-0.000	0.000	0.000	-0.000	-0.000
σ		0.521%	0.420	0.013	0.216	0.177	0.000	2.503	0.234
%RSD		0.521	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:56:41	0.158	-0.005	-1.085	0.000	-0.122	-4.706	-5.516	100.562%
2	19:56:49	0.049	-0.071	8.111	0.000	0.440	3.879	2.392	99.246%
3	19:56:57	-0.208	0.076	-7.025	0.000	-0.318	0.826	3.125	100.193%
x		-0.000	-0.000	-0.000	0.000	0.000	-0.000	0.000	100.000%
σ		0.188	0.073	7.626	0.000	0.393	4.352	4.791	0.679%
%RSD		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.679

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:56:41	-0.155	0.005	0.066	0.014	0.203	-0.820	-0.009	-0.176
2	19:56:49	-0.023	-0.009	-0.004	-0.001	-0.136	2.910	0.000	0.202
3	19:56:57	0.178	0.004	-0.063	-0.013	-0.067	-2.089	0.009	-0.025
x		-0.000	0.000	0.000	0.000	-0.000	-0.000	-0.000	0.000
σ		0.168	0.008	0.065	0.013	0.179	2.598	0.009	0.190
%RSD		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:56:41	-0.012	-0.017	0.125	0.061	0.000	-0.106	0.201	0.000
2	19:56:49	0.007	0.000	-0.081	-0.155	0.018	0.212	0.549	0.000
3	19:56:57	0.005	0.017	-0.044	0.094	-0.018	-0.106	-0.750	0.000
x		-0.000	0.000	0.000	0.000	-0.000	0.000	0.000	0.000
σ		0.010	0.017	0.110	0.136	0.018	0.183	0.672	0.000
%RSD		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:56:41	0.044	96.325%	0.034	0.002	97.969%	0.006	0.019	0.056
2	19:56:49	-0.031	100.887%	-0.024	-0.017	99.711%	-0.006	-0.007	0.013
3	19:56:57	-0.013	102.789%	-0.010	0.016	102.320%	0.000	-0.012	-0.069
x		-0.000	100.000%	-0.000	0.000	100.000%	-0.000	-0.000	-0.000
σ		0.039	3.322%	0.030	0.017	2.190%	0.006	0.017	0.063
%RSD		0.000	3.322	0.000	0.000	2.190	0.000	0.000	0.000

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	19:56:41	-0.003	97.421%	0.015	0.012	0.022	0.021	0.033	98.408%
2	19:56:49	-0.003	99.755%	-0.027	-0.006	-0.010	-0.039	-0.000	99.464%
3	19:56:57	0.005	102.824%	0.012	-0.006	-0.011	0.018	-0.033	102.128%
x		0.000	100.000%	-0.000	-0.000	-0.000	-0.000	-0.000	100.000%
σ		0.005	2.710%	0.024	0.010	0.019	0.034	0.033	1.917%
%RSD		0.000	2.710	0.000	0.000	0.000	0.000	0.000	1.917

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	19:56:41	-0.001	0.001	-0.014	0.031	0.007	98.400%
2	19:56:49	-0.001	-0.001	-0.014	-0.020	-0.010	100.075%
3	19:56:57	0.002	0.000	0.028	-0.012	0.002	101.525%
x		0.000	-0.000	0.000	0.000	-0.000	100.000%
σ		0.002	0.001	0.024	0.028	0.009	1.564%
%RSD		0.000	0.000	0.000	0.000	0.000	1.564

STD2 2852424 10/9/2018 8:02:35 PM

User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:01:41	99.366%	197.600	197.800	-0.216	0.206	0.000	100500.000	100300.000
2	20:01:49	98.081%	200.100	199.600	-0.031	0.032	0.000	100500.000	100600.000
3	20:01:57	96.991%	202.300	202.600	0.254	0.346	0.000	98970.000	99070.000
x		98.146%	200.000	200.000	0.002	0.195	0.000	100000.000	100000.000
σ		1.189%	2.362	2.464	0.237	0.157	0.000	890.600	816.500
%RSD		1.212	1.181	1.232	9823.000	80.730	0.000	0.891	0.817

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:01:41	99970.000	1002.000	36.710	0.000	100400.000	100300.000	100000.000	98.042%
2	20:01:49	100700.000	1005.000	55.100	0.000	100500.000	100600.000	100600.000	98.188%
3	20:01:57	99310.000	993.500	47.010	0.000	99160.000	99160.000	99380.000	99.666%
x		100000.000	1000.000	46.280	0.000	100000.000	100000.000	100000.000	98.632%
σ		711.200	5.804	9.220	0.000	732.400	740.000	609.700	0.898%
%RSD		0.711	0.580	19.920	0.000	0.732	0.740	0.610	0.911

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:01:41	0.007	196.100	198.500	997.600	49280.000	49100.000	199.400	199.800
2	20:01:49	0.059	199.100	199.500	1008.000	49940.000	49880.000	198.700	197.200
3	20:01:57	-0.076	204.800	202.000	994.900	50780.000	51020.000	201.900	203.100
x		-0.003	200.000	200.000	1000.000	50000.000	50000.000	200.000	200.000
σ		0.068	4.451	1.824	6.680	753.800	961.800	1.663	2.975
%RSD		1980.000	2.226	0.912	0.668	1.508	1.924	0.831	1.487

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:01:41	198.000	200.800	202.600	199.400	198.800	195.800	200.100	0.000
2	20:01:49	200.600	199.800	198.200	198.200	197.900	201.900	199.900	0.000
3	20:01:57	201.400	199.400	199.200	202.300	203.200	202.300	200.100	0.000
x		200.000	200.000	200.000	200.000	200.000	200.000	200.000	0.000
σ		1.778	0.721	2.327	2.091	2.824	3.670	0.115	0.000
%RSD		0.889	0.360	1.163	1.046	1.412	1.835	0.057	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:01:41	202.600	96.488%	0.095	0.013	93.067%	199.600	200.600	203.700
2	20:01:49	196.600	100.625%	0.019	0.083	94.957%	199.900	200.600	197.100
3	20:01:57	200.800	101.128%	0.033	0.072	97.103%	200.500	198.800	199.300
x		200.000	99.414%	0.049	0.056	95.042%	200.000	200.000	200.000
σ		3.057	2.546%	0.040	0.038	2.019%	0.431	1.008	3.365
%RSD		1.528	2.561	82.410	67.820	2.125	0.215	0.504	1.682

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:01:41	200.100	96.153%	-0.031	0.179	0.203	196.000	199.100	96.681%
2	20:01:49	199.600	97.021%	-0.119	0.073	0.137	198.200	199.300	98.511%
3	20:01:57	200.300	98.878%	-0.122	0.131	0.176	205.800	201.600	99.505%
x		200.000	97.351%	-0.091	0.127	0.172	200.000	200.000	98.232%
σ		0.361	1.392%	0.052	0.053	0.033	5.181	1.362	1.433%
%RSD		0.181	1.430	56.820	41.690	19.160	2.591	0.681	1.459

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	20:01:41	200.500	200.600	201.300	199.800	200.000	90.991%
2	20:01:49	198.500	199.400	200.100	200.000	200.600	92.053%
3	20:01:57	201.000	200.000	198.600	200.300	199.400	93.012%
x		200.000	200.000	200.000	200.000	200.000	92.019%
σ		1.325	0.581	1.354	0.261	0.579	1.011%
%RSD		0.662	0.291	0.677	0.131	0.290	1.099

STD3 2852425 10/9/2018 8:07:11 PM

User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:06:18	97.563%	-0.215	0.098	195.500	199.700	0.000	56.480	39.440
2	20:06:27	98.039%	0.390	0.091	199.400	199.100	0.000	50.470	39.140
3	20:06:35	96.833%	0.660	0.112	205.100	201.200	0.000	56.550	38.780
x		97.478%	0.279	0.100	200.000	200.000	0.000	54.500	39.120
σ		0.608%	0.448	0.011	4.847	1.074	0.000	3.488	0.327
%RSD		0.623	160.800	10.970	2.424	0.537	0.000	6.400	0.837

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:06:18	38.280	2.417	9980.000	0.000	86.690	49.270	203.900	100.748%
2	20:06:27	38.230	1.933	10000.000	0.000	84.410	42.760	193.800	100.411%
3	20:06:35	37.330	2.018	10020.000	0.000	84.530	30.920	199.700	99.847%
x		37.950	2.123	10000.000	0.000	85.210	40.980	199.100	100.336%
σ		0.535	0.258	19.900	0.000	1.283	9.302	5.064	0.455%
%RSD		1.411	12.170	0.199	0.000	1.505	22.700	2.543	0.454

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:06:18	199.300	0.128	0.118	0.337	20.950	23.300	0.084	0.316
2	20:06:27	201.200	0.073	0.099	0.409	21.890	33.000	0.046	0.176
3	20:06:35	199.500	0.059	0.115	0.357	21.230	24.170	0.036	0.173
x		200.000	0.087	0.111	0.368	21.360	26.820	0.055	0.222
σ		1.016	0.036	0.010	0.037	0.482	5.368	0.025	0.082
%RSD		0.508	41.990	9.203	10.180	2.255	20.010	45.210	36.830

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:06:18	0.122	0.184	0.386	0.564	0.095	0.065	-0.849	0.000
2	20:06:27	0.063	0.138	0.615	0.168	0.256	0.716	0.924	0.000
3	20:06:35	0.093	0.232	0.204	0.214	0.198	-0.106	1.975	0.000
x		0.093	0.185	0.401	0.315	0.183	0.225	0.683	0.000
σ		0.029	0.047	0.206	0.217	0.081	0.434	1.427	0.000
%RSD		31.820	25.400	51.340	68.720	44.380	192.800	208.900	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:06:18	0.107	91.346%	203.200	199.300	93.797%	0.072	0.099	0.321
2	20:06:27	0.063	96.044%	202.000	202.000	95.385%	0.084	0.117	-0.042
3	20:06:35	0.061	98.292%	194.800	198.700	96.401%	0.097	0.093	0.125
x		0.077	95.227%	200.000	200.000	95.194%	0.085	0.103	0.135
σ		0.026	3.544%	4.553	1.727	1.312%	0.013	0.013	0.182
%RSD		33.880	3.722	2.277	0.863	1.378	14.810	12.130	135.000

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:06:18	3.641	92.205%	202.300	199.700	200.300	0.356	1.762	87.086%
2	20:06:27	3.542	95.885%	195.100	197.600	198.100	0.220	1.880	86.173%
3	20:06:35	3.535	97.061%	202.600	202.700	201.600	0.089	1.797	86.310%
x		3.573	95.050%	200.000	200.000	200.000	0.222	1.813	86.523%
σ		0.059	2.533%	4.284	2.592	1.786	0.133	0.061	0.492%
%RSD		1.654	2.665	2.142	1.296	0.893	60.080	3.342	0.569

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	20:06:18	0.140	0.098	0.108	0.068	0.085	71.071%
2	20:06:27	0.086	0.086	0.119	0.105	0.104	68.774%
3	20:06:35	0.088	0.099	0.077	0.062	0.114	63.518%
x		0.104	0.095	0.101	0.078	0.101	67.787%
σ		0.031	0.007	0.021	0.023	0.015	3.872%
%RSD		29.380	7.572	21.170	29.720	14.350	5.712

ICV 2852426 10/9/2018 8:11:47 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:10:55	102.179%	82.750	82.070	83.890	80.540	0.000	41310.000	40920.000
2	20:11:03	102.801%	82.040	82.200	82.110	80.990	0.000	41470.000	41160.000
3	20:11:11	103.763%	77.720	81.630	80.970	80.030	0.000	41070.000	40940.000
x		102.914%	101.046%	102.459%	102.902%	100.651%	0.000	103.208%	102.510%
σ		0.798%	n/a	n/a	n/a	n/a	0.000	n/a	n/a
%RSD		0.775	3.366	0.363	1.785	0.599	0.000	0.487	0.327

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:10:55	40970.000	416.200	4862.000	0.000	41830.000	40480.000	38340.000	104.861%
2	20:11:03	41100.000	416.500	4930.000	0.000	41830.000	40610.000	38520.000	105.017%
3	20:11:11	40730.000	415.500	4975.000	0.000	41470.000	40170.000	38190.000	105.745%
x		102.328%	104.012%	123.063%	0.000	104.279%	101.047%	95.877%	105.208%
σ		n/a	n/a	n/a	0.000	n/a	n/a	n/a	0.472%
%RSD		0.457	0.124	1.158	0.000	0.496	0.566	0.439	0.448

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:10:55	81.870	77.830	79.980	403.100	20050.000	19720.000	80.520	81.080
2	20:11:03	82.410	80.800	80.170	407.600	20410.000	20230.000	84.170	80.090
3	20:11:11	82.350	79.560	81.000	397.400	20510.000	20390.000	82.050	81.890
x		102.764%	99.246%	100.479%	100.666%	101.625%	100.550%	102.809%	101.275%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		0.357	1.884	0.672	1.269	1.175	1.728	2.224	1.114

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:10:55	81.780	82.900	81.530	76.850	81.450	77.890	74.090	0.000
2	20:11:03	82.820	82.740	80.710	81.820	83.100	86.220	70.700	0.000
3	20:11:11	81.740	82.090	81.610	78.840	80.770	76.450	76.710	0.000
x		102.642%	103.221%	101.600%	98.962%	102.216%	100.233%	92.292%	0.000
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.000
%RSD		0.744	0.516	0.610	3.163	1.462	6.580	4.084	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:10:55	81.850	100.671%	82.260	82.370	100.771%	80.530	82.070	82.180
2	20:11:03	79.900	105.487%	81.480	80.870	102.914%	80.340	80.930	80.570
3	20:11:11	80.890	106.787%	82.180	80.620	104.754%	78.910	80.830	84.960
x		101.100%	104.315%	102.468%	101.607%	102.813%	99.911%	101.598%	103.209%
σ		n/a	3.222%	n/a	n/a	1.994%	n/a	n/a	n/a
%RSD		1.203	3.089	0.519	1.161	1.939	1.107	0.849	2.688

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:10:55	85.060	98.790%	82.020	80.790	79.600	81.990	83.000	96.958%
2	20:11:03	83.460	103.278%	81.560	81.940	78.890	76.520	79.820	100.680%
3	20:11:11	84.250	105.144%	80.130	81.310	79.380	79.150	82.570	101.399%
x		105.322%	102.404%	101.544%	101.682%	99.111%	99.021%	102.246%	99.679%
σ		n/a	3.266%	n/a	n/a	n/a	n/a	n/a	2.384%
%RSD		0.951	3.189	1.215	0.703	0.461	3.451	2.109	2.392

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	20:10:55	75.820	76.700	80.760	79.030	81.610	92.075%
2	20:11:03	76.970	76.910	81.580	78.480	81.150	93.650%
3	20:11:11	75.420	76.820	82.180	78.730	81.360	94.982%
x		95.089%	96.011%	101.884%	98.434%	101.714%	93.569%
σ		n/a	n/a	n/a	n/a	n/a	1.455%
%RSD		1.057	0.134	0.871	0.348	0.281	1.555

ICB 10/9/2018 8:16:28 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:15:34	101.974%	0.507	0.003	0.619	0.650	0.000	1.624	0.713
2	20:15:42	102.321%	-0.352	0.028	0.420	0.767	0.000	0.142	0.798
3	20:15:51	102.577%	-0.279	0.022	0.512	0.507	0.000	-2.875	0.696
x		102.291%	-0.041	0.018	0.517	0.641	0.000	-0.370	0.736
σ		0.303%	0.476	0.013	0.100	0.130	0.000	2.293	0.055
%RSD		0.296	1157.000	73.830	19.290	20.270	0.000	620.400	7.478

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:15:34	0.941	-1.939	170.800	0.000	51.240	3.026	8.481	109.501%
2	20:15:42	0.794	-1.775	175.200	0.000	48.690	-10.760	11.540	110.131%
3	20:15:51	0.328	-1.697	172.300	0.000	50.370	6.879	6.154	109.146%
x		0.688	-1.804	172.800	0.000	50.100	-0.286	8.726	109.593%
σ		0.320	0.123	2.237	0.000	1.296	9.276	2.703	0.499%
%RSD		46.590	6.841	1.295	0.000	2.586	3243.000	30.970	0.455

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:15:34	-0.055	0.026	0.052	-0.070	1.240	2.430	-0.018	0.007
2	20:15:42	0.013	-0.024	-0.016	-0.051	1.436	-2.182	0.007	0.146
3	20:15:51	0.040	0.001	-0.138	-0.046	0.798	1.232	-0.010	0.116
x		-0.000	0.001	-0.034	-0.056	1.158	0.493	-0.007	0.089
σ		0.049	0.025	0.097	0.012	0.326	2.393	0.013	0.073
%RSD		15060.000	2102.000	284.200	21.940	28.190	485.100	181.800	82.060

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:15:34	-0.025	0.026	0.131	-0.275	-0.001	0.499	1.200	0.000
2	20:15:42	-0.026	0.023	0.051	0.009	0.032	0.043	0.528	0.000
3	20:15:51	-0.027	0.075	0.049	-0.185	0.047	0.040	-0.691	0.000
x		-0.026	0.041	0.077	-0.150	0.026	0.194	0.346	0.000
σ		0.001	0.029	0.047	0.145	0.025	0.264	0.959	0.000
%RSD		5.047	70.140	60.510	96.170	95.070	136.200	277.300	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:15:34	-0.031	104.168%	0.247	0.192	103.837%	-0.000	-0.015	-0.011
2	20:15:42	-0.014	106.515%	0.280	0.203	106.048%	-0.005	-0.003	-0.001
3	20:15:51	-0.031	109.156%	0.209	0.278	107.941%	-0.012	0.006	0.055
x		-0.025	106.613%	0.245	0.224	105.942%	-0.006	-0.004	0.014
σ		0.010	2.496%	0.036	0.047	2.054%	0.006	0.011	0.035
%RSD		38.840	2.341	14.520	21.060	1.939	103.200	271.300	245.800

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:15:34	-0.003	101.632%	0.039	0.385	0.393	-0.039	-0.033	99.112%
2	20:15:42	-0.003	107.240%	0.058	0.309	0.218	-0.039	-0.002	103.982%
3	20:15:51	0.005	107.293%	0.057	0.206	0.342	-0.039	-0.033	104.446%
x		-0.000	105.388%	0.052	0.300	0.317	-0.039	-0.022	102.513%
σ		0.005	3.253%	0.010	0.090	0.090	0.000	0.018	2.955%
%RSD		3900.000	3.087	20.240	29.960	28.430	0.000	78.130	2.882

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	20:15:34	0.016	0.017	-0.017	0.001	0.005	95.644%
2	20:15:42	0.015	0.019	0.031	0.013	0.025	97.684%
3	20:15:51	0.012	0.024	0.021	-0.029	0.005	99.677%
x		0.014	0.020	0.012	-0.005	0.012	97.668%
σ		0.002	0.003	0.025	0.022	0.011	2.017%
%RSD		15.380	17.600	209.800	458.300	97.680	2.065

ICVL 2835601 10/9/2018 8:21:10 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:20:16	107.397%	5.315	1.108	78.420	77.510	0.000	529.700	520.200
2	20:20:24	107.251%	5.238	1.043	81.420	79.410	0.000	528.400	528.900
3	20:20:32	105.398%	5.167	1.116	81.660	80.680	0.000	531.800	525.500
x		106.682%	104.806%	108.896%	1610.018%	1583.963%	0.000	662.438%	524.871%
σ		1.114%	n/a	n/a	n/a	n/a	0.000	n/a	n/a
%RSD		1.044	1.413	3.671	2.239	2.014	0.000	0.320	0.837

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:20:16	522.500	35.430	595.000	0.000	564.100	467.900	498.800	112.205%
2	20:20:24	524.200	34.730	601.000	0.000	568.300	476.800	519.400	112.381%
3	20:20:32	525.600	34.920	635.600	0.000	574.000	510.700	501.900	111.637%
x		524.085%	116.759%	122.107%	0.000	568.781%	485.106%	506.711%	112.074%
σ		n/a	n/a	n/a	0.000	n/a	n/a	n/a	0.389%
%RSD		0.294	1.033	3.589	0.000	0.878	4.652	2.183	0.347

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:20:16	5.252	0.789	2.036	5.056	51.420	58.320	0.590	1.028
2	20:20:24	5.562	0.931	2.212	4.998	51.960	53.150	0.434	1.182
3	20:20:32	4.891	0.984	1.897	5.114	53.250	53.140	0.483	1.122
x		104.699%	90.141%	102.407%	101.120%	104.419%	109.739%	100.475%	111.078%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		6.417	11.150	7.705	1.150	1.802	5.447	15.820	6.987

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:20:16	2.240	2.202	5.020	5.421	0.853	8.233	4.299	0.000
2	20:20:24	2.329	2.216	5.558	5.007	1.166	5.162	6.175	0.000
3	20:20:32	2.359	2.258	6.044	5.688	1.006	5.549	1.651	0.000
x		115.472%	111.273%	110.813%	107.439%	100.827%	126.297%	80.831%	0.000
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.000
%RSD		2.689	1.304	9.236	6.389	15.530	26.490	56.250	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:20:16	5.473	100.684%	4.960	4.507	102.151%	1.056	1.079	1.003
2	20:20:24	5.281	104.057%	4.923	4.526	104.075%	0.963	1.107	0.595
3	20:20:32	5.211	105.841%	4.735	4.534	105.750%	1.114	1.145	1.254
x		106.429%	103.527%	97.453%	90.443%	103.992%	104.401%	111.034%	95.078%
σ		n/a	2.619%	n/a	n/a	1.801%	n/a	n/a	n/a
%RSD		2.551	2.530	2.474	0.309	1.732	7.301	2.979	34.940

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:20:16	1.126	98.798%	5.094	1.811	1.552	10.040	9.414	98.564%
2	20:20:24	1.123	102.990%	5.004	1.671	1.736	10.240	9.659	99.387%
3	20:20:32	0.842	105.510%	5.106	1.855	2.035	9.491	9.963	101.670%
x		103.049%	102.433%	101.365%	88.946%	88.726%	99.238%	96.786%	99.874%
σ		n/a	3.390%	n/a	n/a	n/a	n/a	n/a	1.609%
%RSD		15.840	3.310	1.096	5.419	13.750	3.918	2.840	1.611

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	20:20:16	0.969	1.041	1.166	1.160	1.165	93.892%
2	20:20:24	1.062	1.000	1.196	0.974	1.140	95.034%
3	20:20:32	0.985	1.007	1.088	1.230	1.130	97.109%
x		100.537%	101.599%	114.985%	112.130%	114.495%	95.345%
σ		n/a	n/a	n/a	n/a	n/a	1.631%
%RSD		4.946	2.152	4.851	11.820	1.560	1.711

ICSA 2923149 10/9/2018 8:26:39 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:25:47	98.471%	0.233	0.005	0.793	0.580	0.000	96460.000	95280.000
2	20:25:55	99.190%	-1.076	-0.015	-0.082	0.572	0.000	97660.000	96700.000
3	20:26:03	98.678%	-0.154	0.051	0.689	0.625	0.000	98350.000	97700.000
x		98.780%	-0.333	0.014	0.467	0.592	0.000	97490.000	96560.000
σ		0.370%	0.672	0.034	0.478	0.028	0.000	957.500	1220.000
%RSD		0.375	202.200	244.900	102.500	4.788	0.000	0.982	1.263

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:25:47	94780.000	94830.000	-81.680	0.000	95080.000	93600.000	94470.000	98.155%
2	20:25:55	96380.000	96100.000	-95.850	0.000	95310.000	95300.000	95240.000	98.338%
3	20:26:03	97400.000	97230.000	-112.900	0.000	96190.000	95740.000	95920.000	97.962%
x		96190.000	96050.000	-96.800	0.000	95530.000	94880.000	95210.000	98.152%
σ		1320.000	1202.000	15.620	0.000	587.400	1127.000	725.700	0.188%
%RSD		1.373	1.252	16.140	0.000	0.615	1.187	0.762	0.192

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:25:47	2229.000	0.062	0.363	0.320	93730.000	93250.000	0.029	0.390
2	20:25:55	2261.000	0.061	0.285	0.259	94230.000	93880.000	0.010	0.217
3	20:26:03	2274.000	0.075	0.431	0.239	96210.000	95780.000	0.010	-0.108
x		2255.000	0.066	0.360	0.273	94720.000	94300.000	0.016	0.166
σ		23.220	0.008	0.073	0.042	1313.000	1314.000	0.011	0.253
%RSD		1.030	12.010	20.280	15.500	1.386	1.394	68.650	152.200

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:25:47	0.343	0.404	1.728	1.560	0.095	0.233	-1.584	0.000
2	20:25:55	0.368	0.513	2.516	1.664	0.111	0.224	-1.171	0.000
3	20:26:03	0.451	0.800	2.416	1.912	0.146	-0.106	-0.437	0.000
x		0.387	0.572	2.220	1.712	0.117	0.117	-1.064	0.000
σ		0.057	0.205	0.429	0.181	0.026	0.193	0.581	0.000
%RSD		14.590	35.730	19.340	10.550	22.160	164.900	54.590	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:25:47	1.055	92.934%	1962.000	1972.000	90.097%	0.079	0.067	0.317
2	20:25:55	0.776	96.096%	1936.000	1964.000	91.155%	0.078	0.078	1.468
3	20:26:03	0.854	97.795%	1942.000	1961.000	92.052%	0.032	0.080	1.471
x		0.895	95.608%	1947.000	1966.000	91.101%	0.063	0.075	1.085
σ		0.144	2.467%	13.520	5.937	0.979%	0.027	0.007	0.665
%RSD		16.070	2.580	0.694	0.302	1.074	43.300	9.791	61.310

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:25:47	6.336	92.417%	0.029	0.187	0.113	0.151	0.105	94.055%
2	20:25:55	6.685	92.010%	0.056	0.160	0.113	-0.039	-0.033	94.949%
3	20:26:03	6.711	93.039%	0.040	0.086	0.145	0.024	0.036	95.224%
x		6.577	92.488%	0.042	0.144	0.124	0.045	0.036	94.743%
σ		0.209	0.518%	0.014	0.052	0.018	0.097	0.069	0.611%
%RSD		3.183	0.560	32.400	36.270	14.680	215.300	191.000	0.645

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	20:25:47	0.003	0.010	0.120	0.113	0.135	88.658%
2	20:25:55	-0.004	0.004	0.127	0.146	0.143	89.900%
3	20:26:03	-0.004	0.020	0.162	0.129	0.157	88.090%
x		-0.002	0.011	0.136	0.129	0.145	88.883%
σ		0.004	0.008	0.022	0.016	0.011	0.926%
%RSD		222.600	72.090	16.260	12.650	7.781	1.041

ICSAB 2923150 10/9/2018 8:31:21 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:30:27	103.168%	19.130	19.950	48.100	46.440	0.000	99940.000	98590.000
2	20:30:35	102.540%	20.550	20.360	46.890	46.390	0.000	101700.000	100400.000
3	20:30:43	98.069%	22.250	21.560	53.870	50.420	0.000	110300.000	108700.000
x		101.259%	103.208%	103.122%	99.237%	95.501%	0.000	103.984%	102.556%
σ		2.780%	n/a	n/a	n/a	n/a	0.000	n/a	n/a
%RSD		2.746	7.550	4.056	7.512	4.849	0.000	5.300	5.273

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:30:27	97740.000	97340.000	307.000	0.000	97610.000	96510.000	97070.000	102.938%
2	20:30:35	100100.000	99850.000	323.000	0.000	99340.000	98430.000	99230.000	101.459%
3	20:30:43	108500.000	108300.000	385.000	0.000	107200.000	107300.000	107200.000	98.452%
x		102.112%	101.825%	67.670%	0.000	101.390%	100.737%	101.165%	100.950%
σ		n/a	n/a	n/a	0.000	n/a	n/a	n/a	2.286%
%RSD		5.524	5.630	12.170	0.000	5.051	5.693	5.275	2.264

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:30:27	2283.000	17.940	19.650	19.510	94110.000	94540.000	18.530	19.160
2	20:30:35	2300.000	18.910	19.100	20.380	97580.000	97530.000	19.320	19.620
3	20:30:43	2506.000	17.790	19.860	21.860	99340.000	99690.000	20.330	20.290
x		118.154%	91.059%	97.665%	102.914%	97.009%	97.257%	96.965%	98.459%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		5.263	3.346	2.010	5.765	2.746	2.659	4.668	2.883

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:30:27	20.510	20.140	22.800	21.150	20.700	50.360	47.000	0.000
2	20:30:35	20.350	20.470	23.480	24.060	21.920	57.840	47.380	0.000
3	20:30:43	20.620	20.790	24.230	24.360	20.810	53.240	50.910	0.000
x		102.464%	102.329%	94.023%	92.751%	105.722%	107.624%	96.866%	0.000
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.000
%RSD		0.676	1.583	3.050	7.647	3.204	7.016	4.451	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:30:27	20.080	88.492%	2102.000	2114.000	85.811%	21.540	20.420	23.800
2	20:30:35	20.050	90.588%	2078.000	2108.000	88.175%	20.570	20.690	20.930
3	20:30:43	20.550	93.685%	2044.000	2073.000	89.564%	20.520	20.150	23.090
x		101.127%	90.922%	103.737%	104.911%	87.850%	104.384%	102.096%	113.024%
σ		n/a	2.613%	n/a	n/a	1.898%	n/a	n/a	n/a
%RSD		1.374	2.874	1.391	1.055	2.160	2.764	1.312	6.616

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:30:27	30.110	84.855%	103.600	21.060	19.740	22.180	19.830	85.727%
2	20:30:35	29.920	88.588%	102.400	21.450	19.850	21.850	20.480	88.211%
3	20:30:43	28.810	91.627%	103.000	20.800	20.510	20.810	20.540	90.598%
x		148.073%	88.356%	103.010%	105.515%	100.174%	108.070%	101.408%	88.179%
σ		n/a	3.392%	n/a	n/a	n/a	n/a	n/a	2.436%
%RSD		2.367	3.839	0.577	1.542	2.075	3.324	1.932	2.762

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	20:30:27	20.590	20.270	21.470	21.270	21.280	76.130%
2	20:30:35	20.380	19.840	21.740	21.090	21.390	76.349%
3	20:30:43	20.230	20.000	20.830	20.670	20.870	76.614%
x		102.000%	100.193%	106.737%	105.041%	105.901%	76.364%
σ		n/a	n/a	n/a	n/a	n/a	0.242%
%RSD		0.896	1.100	2.176	1.461	1.292	0.318

CCV 2907280 10/9/2018 8:35:59 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:35:07	100.841%	100.800	101.900	98.880	98.000	0.000	50960.000	50560.000
2	20:35:15	102.614%	103.200	101.100	101.300	97.630	0.000	51450.000	51100.000
3	20:35:23	101.097%	105.500	103.000	99.820	99.000	0.000	51450.000	51260.000
x		101.517%	103.167%	102.003%	100.000%	98.211%	0.000	102.578%	101.947%
σ		0.958%	n/a	n/a	n/a	n/a	0.000	n/a	n/a
%RSD		0.944	2.262	0.962	1.219	0.724	0.000	0.555	0.724

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:35:07	50390.000	542.200	5237.000	0.000	49690.000	49270.000	49480.000	107.356%
2	20:35:15	51000.000	547.800	5279.000	0.000	50260.000	50230.000	50240.000	107.430%
3	20:35:23	50990.000	547.700	5301.000	0.000	50220.000	49650.000	49990.000	106.963%
x		101.587%	109.182%	105.450%	0.000	100.108%	99.428%	99.807%	107.250%
σ		n/a	n/a	n/a	0.000	n/a	n/a	n/a	0.251%
%RSD		0.694	0.583	0.615	0.000	0.639	0.977	0.775	0.234

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:35:07	103.900	92.070	93.200	498.200	23880.000	23650.000	96.590	97.360
2	20:35:15	106.100	94.260	94.640	503.500	24690.000	24570.000	99.660	99.030
3	20:35:23	103.900	97.080	97.050	504.300	24910.000	24840.000	99.710	100.400
x		104.639%	94.472%	94.963%	100.406%	97.982%	97.419%	98.652%	98.916%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		1.204	2.660	2.045	0.665	2.209	2.560	1.811	1.524

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:35:07	97.250	100.400	97.500	101.900	99.620	100.400	91.070	0.000
2	20:35:15	99.780	100.200	101.900	98.360	100.700	103.000	82.760	0.000
3	20:35:23	98.740	99.510	100.800	97.310	98.270	104.000	91.870	0.000
x		98.591%	100.042%	100.072%	99.188%	99.526%	102.454%	88.567%	0.000
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.000
%RSD		1.291	0.469	2.297	2.416	1.215	1.828	5.694	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:35:07	98.650	94.031%	111.600	112.500	92.807%	97.170	97.940	103.900
2	20:35:15	101.600	96.946%	108.800	108.900	95.008%	95.810	97.040	101.400
3	20:35:23	98.610	100.965%	107.300	109.000	96.676%	95.750	96.700	103.400
x		99.612%	97.314%	109.203%	110.135%	94.830%	96.245%	97.228%	102.896%
σ		n/a	3.481%	n/a	n/a	1.940%	n/a	n/a	n/a
%RSD		1.710	3.577	2.007	1.865	2.046	0.833	0.661	1.272

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:35:07	103.700	92.657%	100.900	101.300	99.680	99.890	99.970	89.230%
2	20:35:15	106.900	95.462%	101.700	101.000	99.010	96.300	103.900	93.811%
3	20:35:23	104.200	97.679%	99.590	103.700	101.500	96.810	98.530	94.542%
x		104.941%	95.266%	100.737%	101.972%	100.068%	97.667%	100.807%	92.527%
σ		n/a	2.517%	n/a	n/a	n/a	n/a	n/a	2.879%
%RSD		1.647	2.642	1.050	1.459	1.293	1.988	2.771	3.112

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	20:35:07	101.600	100.300	105.100	102.900	104.100	78.534%
2	20:35:15	102.200	100.300	105.100	101.900	103.900	81.410%
3	20:35:23	101.600	100.600	104.100	101.400	102.900	82.502%
x		101.785%	100.423%	104.772%	102.063%	103.655%	80.815%
σ		n/a	n/a	n/a	n/a	n/a	2.050%
%RSD		0.371	0.185	0.569	0.719	0.599	2.537

CCB1 10/9/2018 8:40:38 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:39:45	102.894%	-0.267	-0.016	0.002	0.537	0.000	59.160	2.517
2	20:39:53	102.041%	-0.573	-0.003	0.108	0.449	0.000	44.970	2.015
3	20:40:01	105.209%	-0.156	0.002	0.549	0.348	0.000	46.710	1.631
x		103.381%	-0.332	-0.006	0.220	0.445	0.000	50.280	2.055
σ		1.639%	0.216	0.009	0.290	0.094	0.000	7.739	0.444
%RSD		1.586	65.040	154.100	132.100	21.190	0.000	15.390	21.630

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:39:45	2.203	-2.235	198.200	0.000	100.700	7.278	15.900	108.031%
2	20:39:53	1.465	-2.474	186.300	0.000	91.270	1.674	12.270	109.859%
3	20:40:01	1.650	-2.544	152.200	0.000	90.330	-10.750	10.980	110.047%
x		1.773	-2.418	178.900	0.000	94.100	-0.598	13.050	109.312%
σ		0.384	0.162	23.890	0.000	5.738	9.225	2.553	1.114%
%RSD		21.670	6.697	13.350	0.000	6.097	1542.000	19.560	1.019

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:39:45	0.068	-0.011	0.151	-0.075	4.434	3.766	-0.009	-0.010
2	20:39:53	-0.079	0.001	0.022	-0.123	4.162	2.418	-0.010	0.064
3	20:40:01	-0.033	-0.024	-0.110	-0.093	3.612	10.380	-0.018	0.003
x		-0.015	-0.011	0.021	-0.097	4.069	5.521	-0.012	0.019
σ		0.075	0.013	0.130	0.024	0.419	4.260	0.005	0.040
%RSD		515.900	112.400	614.000	25.090	10.300	77.170	39.740	206.500

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:39:45	0.021	-0.005	-0.048	0.087	0.017	-0.106	0.552	0.000
2	20:39:53	0.004	-0.028	0.055	-0.081	0.066	0.197	2.199	0.000
3	20:40:01	-0.016	-0.029	0.127	-0.133	0.049	0.044	-1.372	0.000
x		0.003	-0.020	0.045	-0.042	0.044	0.045	0.460	0.000
σ		0.019	0.014	0.088	0.115	0.025	0.151	1.787	0.000
%RSD		616.300	66.330	196.800	272.000	56.230	337.500	388.900	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:39:45	0.006	98.220%	1.480	1.466	100.427%	0.009	-0.021	0.087
2	20:39:53	0.004	104.083%	1.019	1.330	103.460%	0.010	-0.005	0.015
3	20:40:01	-0.014	105.632%	1.327	1.339	104.525%	0.026	-0.009	0.056
x		-0.001	102.645%	1.275	1.378	102.804%	0.015	-0.012	0.053
σ		0.011	3.910%	0.235	0.076	2.127%	0.010	0.009	0.036
%RSD		796.400	3.809	18.390	5.492	2.069	66.040	73.310	68.890

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:39:45	0.015	97.262%	0.016	0.316	0.233	-0.039	-0.033	95.402%
2	20:39:53	0.006	101.937%	0.027	0.226	0.271	0.020	-0.001	98.658%
3	20:40:01	0.005	103.132%	0.024	0.273	0.188	0.019	-0.033	99.971%
x		0.008	100.777%	0.022	0.272	0.231	-0.000	-0.022	98.011%
σ		0.005	3.102%	0.006	0.045	0.042	0.034	0.019	2.352%
%RSD		61.630	3.078	26.250	16.500	18.090	9539.000	84.290	2.400

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	20:39:45	0.030	0.048	0.023	0.028	0.036	92.463%
2	20:39:53	0.064	0.043	0.040	0.037	0.050	92.441%
3	20:40:01	0.036	0.044	0.038	0.021	0.055	94.634%
x		0.043	0.045	0.034	0.029	0.047	93.179%
σ		0.018	0.003	0.009	0.008	0.010	1.260%
%RSD		41.870	6.596	26.970	29.060	21.860	1.352

MB 180-258603/1-A 10/9/2018 8:45:17 PM

User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:44:25	101.822%	-0.458	0.003	-0.004	0.136	0.000	77.870	0.094
2	20:44:33	101.030%	-0.173	0.004	0.075	0.303	0.000	75.090	-0.194
3	20:44:41	99.318%	-0.336	-0.008	0.041	0.252	0.000	63.160	0.092
x		100.723%	-0.322	-0.000	0.037	0.230	0.000	72.040	-0.003
σ		1.280%	0.143	0.007	0.039	0.086	0.000	7.814	0.165
%RSD		1.271	44.240	1545.000	106.100	37.350	0.000	10.850	6026.000

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:44:25	0.004	11.260	-12.680	0.000	129.300	7.796	7.147	103.177%
2	20:44:33	0.221	10.910	-22.340	0.000	108.100	-10.570	4.852	102.700%
3	20:44:41	0.010	10.990	-39.310	0.000	96.150	0.279	3.035	101.904%
x		0.078	11.050	-24.780	0.000	111.200	-0.831	5.011	102.594%
σ		0.123	0.184	13.480	0.000	16.770	9.233	2.060	0.643%
%RSD		157.800	1.662	54.420	0.000	15.080	1111.000	41.110	0.627

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:44:25	0.262	0.288	0.135	-0.065	2.661	1.725	-0.018	0.088
2	20:44:33	-0.034	0.273	0.101	-0.104	1.740	1.662	-0.018	-0.208
3	20:44:41	0.094	0.397	0.032	-0.067	1.795	2.929	-0.018	0.081
x		0.107	0.319	0.089	-0.079	2.065	2.105	-0.018	-0.013
σ		0.149	0.067	0.052	0.022	0.517	0.714	0.000	0.169
%RSD		138.900	21.130	58.430	27.840	25.010	33.930	0.000	1307.000

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:44:25	0.385	0.405	0.517	0.249	0.040	-0.106	0.590	0.000
2	20:44:33	0.459	0.606	0.416	0.547	0.001	0.230	-0.463	0.000
3	20:44:41	0.407	0.432	0.621	0.175	0.001	-0.106	1.311	0.000
x		0.417	0.481	0.518	0.323	0.014	0.006	0.479	0.000
σ		0.038	0.109	0.103	0.197	0.023	0.194	0.892	0.000
%RSD		9.144	22.700	19.820	60.970	164.400	3132.000	186.000	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:44:25	0.010	87.812%	0.635	0.825	92.348%	0.010	0.040	0.092
2	20:44:33	-0.031	92.575%	0.806	0.789	94.095%	0.023	-0.001	-0.043
3	20:44:41	-0.031	93.195%	0.782	0.759	95.660%	0.022	0.012	0.139
x		-0.017	91.194%	0.741	0.791	94.034%	0.018	0.017	0.063
σ		0.024	2.945%	0.093	0.033	1.657%	0.007	0.021	0.094
%RSD		137.800	3.229	12.520	4.150	1.762	39.590	120.300	149.800

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:44:25	0.077	106.298%	4.775	0.114	0.096	-0.039	-0.001	96.115%
2	20:44:33	0.052	108.708%	4.448	0.072	0.093	0.018	-0.001	98.076%
3	20:44:41	0.097	111.039%	3.889	0.093	0.081	0.016	-0.002	101.566%
x		0.076	108.682%	4.371	0.093	0.090	-0.002	-0.002	98.586%
σ		0.023	2.371%	0.448	0.021	0.008	0.033	0.001	2.761%
%RSD		29.820	2.181	10.250	22.790	9.159	1766.000	50.250	2.801

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	20:44:25	0.036	0.027	0.101	0.092	0.118	90.768%
2	20:44:33	0.035	0.022	0.126	0.150	0.113	93.601%
3	20:44:41	0.038	0.038	0.094	0.095	0.110	94.912%
x		0.036	0.029	0.107	0.112	0.114	93.093%
σ		0.001	0.008	0.017	0.032	0.004	2.118%
%RSD		3.548	27.140	15.510	28.870	3.355	2.275

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Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:49:01	106.505%	2.248	52.740	1049.000	1038.000	0.000	54270.000	52700.000
2	20:49:09	104.372%	2.261	53.830	1099.000	1089.000	0.000	56080.000	54530.000
3	20:49:17	106.716%	1.277	53.630	1078.000	1076.000	0.000	56990.000	55220.000
x		105.864%	1.929	53.400	1076.000	1068.000	0.000	55780.000	54150.000
σ		1.297%	0.564	0.583	25.150	26.330	0.000	1385.000	1301.000
%RSD		1.225	29.250	1.092	2.338	2.466	0.000	2.484	2.402

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:49:01	52150.000	11210.000	-219.800	0.000	50040.000	50010.000	46980.000	95.365%
2	20:49:09	54000.000	11770.000	-204.600	0.000	51790.000	51920.000	51910.000	94.437%
3	20:49:17	55020.000	11610.000	-220.900	0.000	52330.000	52570.000	52160.000	93.663%
x		53720.000	11530.000	-215.100	0.000	51390.000	51500.000	50350.000	94.488%
σ		1454.000	287.900	9.127	0.000	1196.000	1333.000	2923.000	0.852%
%RSD		2.706	2.497	4.243	0.000	2.327	2.588	5.806	0.902

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:49:01	984.700	448.100	185.800	495.200	10100.000	10310.000	487.000	481.900
2	20:49:09	1036.000	454.400	192.000	522.600	10310.000	10500.000	498.400	500.600
3	20:49:17	1030.000	471.700	197.400	526.000	10490.000	10580.000	503.100	496.800
x		1017.000	458.100	191.700	514.600	10300.000	10460.000	496.100	493.100
σ		28.230	12.230	5.795	16.910	194.300	139.900	8.241	9.854
%RSD		2.775	2.670	3.023	3.286	1.887	1.337	1.661	1.998

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:49:01	262.500	272.900	477.200	483.400	38.560	11.830	7.843	0.000
2	20:49:09	264.500	277.400	490.900	480.400	40.520	7.850	8.494	0.000
3	20:49:17	270.700	279.100	490.500	502.600	39.510	9.582	6.278	0.000
x		265.900	276.500	486.200	488.800	39.530	9.753	7.538	0.000
σ		4.281	3.234	7.845	12.070	0.981	1.994	1.139	0.000
%RSD		1.610	1.170	1.613	2.470	2.481	20.450	15.110	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:49:01	985.500	76.202%	1106.000	1095.000	79.459%	53.580	54.370	54.000
2	20:49:09	976.200	78.840%	1095.000	1085.000	81.111%	53.790	54.670	53.840
3	20:49:17	970.600	81.216%	1097.000	1076.000	82.023%	53.200	54.460	52.690
x		977.400	78.753%	1099.000	1085.000	80.864%	53.520	54.500	53.510
σ		7.552	2.508%	6.157	9.484	1.300%	0.297	0.156	0.717
%RSD		0.773	3.185	0.560	0.874	1.607	0.555	0.287	1.340

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:49:01	86.280	76.644%	2088.000	501.800	491.400	1924.000	1932.000	84.456%
2	20:49:09	86.390	77.720%	2102.000	505.900	497.400	1942.000	1952.000	85.631%
3	20:49:17	85.380	79.278%	2102.000	507.000	498.700	1949.000	1965.000	86.597%
x		86.020	77.881%	2097.000	504.900	495.800	1938.000	1950.000	85.561%
σ		0.555	1.324%	8.276	2.717	3.914	12.610	16.410	1.072%
%RSD		0.646	1.700	0.395	0.538	0.789	0.651	0.842	1.253

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	20:49:01	53.470	53.510	22.260	22.730	22.000	82.617%
2	20:49:09	52.980	53.000	21.420	21.620	21.660	84.913%
3	20:49:17	51.790	52.380	21.870	21.170	21.440	86.658%
x		52.750	52.960	21.850	21.840	21.700	84.729%
σ		0.865	0.565	0.421	0.803	0.283	2.027%
%RSD		1.639	1.067	1.928	3.679	1.302	2.392

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Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:53:38	110.024%	32.750	5.411	32.720	31.670	0.000	125.800	4047.000
2	20:53:46	110.200%	32.470	5.225	31.860	31.030	0.000	111.100	3832.000
3	20:53:55	110.889%	32.920	5.027	30.740	30.770	0.000	109.900	3792.000
x		110.371%	32.710	5.221	31.770	31.160	0.000	115.600	3890.000
σ		0.457%	0.228	0.192	0.996	0.467	0.000	8.833	136.900
%RSD		0.414	0.696	3.675	3.136	1.499	0.000	7.639	3.519

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:53:38	4005.000	145700.000	8059.000	0.000	4216.000	23920.000	22520.000	119.530%
2	20:53:46	3814.000	140200.000	7772.000	0.000	4030.000	23160.000	21680.000	122.279%
3	20:53:55	3758.000	138500.000	7768.000	0.000	3989.000	22640.000	21510.000	122.459%
x		3859.000	141400.000	7866.000	0.000	4078.000	23240.000	21910.000	121.423%
σ		129.500	3794.000	166.900	0.000	121.100	643.100	540.500	1.641%
%RSD		3.357	2.682	2.122	0.000	2.968	2.767	2.467	1.352

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:53:38	13190.000	644.700	483.600	1188.000	283000.000	285400.000	13.820	62.510
2	20:53:46	12650.000	634.100	479.900	1141.000	279400.000	283400.000	13.310	60.340
3	20:53:55	12600.000	640.600	482.600	1135.000	283700.000	285300.000	13.240	61.630
x		12810.000	639.800	482.000	1155.000	282000.000	284700.000	13.460	61.490
σ		328.000	5.347	1.918	28.910	2279.000	1119.000	0.320	1.092
%RSD		2.560	0.836	0.398	2.504	0.808	0.393	2.381	1.775

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:53:38	66.840	68.560	182.900	185.900	22.180	21.910	16.860	0.000
2	20:53:46	65.290	67.100	181.300	175.500	21.110	21.710	26.800	0.000
3	20:53:55	65.830	68.940	183.300	182.600	21.510	20.490	28.060	0.000
x		65.990	68.200	182.500	181.400	21.600	21.370	23.910	0.000
σ		0.786	0.973	1.071	5.346	0.539	0.764	6.133	0.000
%RSD		1.191	1.426	0.587	2.948	2.495	3.577	25.650	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:53:38	89.200	0.000	24.810	24.830	84.100%	1.315	0.442	15.950
2	20:53:46	90.570	0.000	23.970	23.670	84.265%	1.352	0.485	15.890
3	20:53:55	90.350	0.000	24.500	24.300	83.584%	1.356	0.473	16.000
x		90.040	0.000	24.430	24.270	83.983%	1.341	0.467	15.950
σ		0.738	0.000	0.422	0.581	0.356%	0.023	0.022	0.054
%RSD		0.820	0.000	1.729	2.396	0.423	1.707	4.750	0.337

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:53:38	1.218	81.791%	61.340	4.221	4.106	251.200	242.000	103.103%
2	20:53:46	1.170	81.542%	60.670	3.936	4.400	246.400	246.800	102.169%
3	20:53:55	1.315	82.187%	60.290	4.157	4.694	251.000	245.400	102.203%
x		1.234	81.840%	60.770	4.105	4.400	249.500	244.700	102.492%
σ		0.074	0.325%	0.533	0.150	0.294	2.684	2.479	0.530%
%RSD		6.009	0.397	0.878	3.652	6.681	1.075	1.013	0.517

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	20:53:38	1.164	1.091	429.800	380.200	413.100	77.909%
2	20:53:46	1.246	1.209	424.100	380.200	409.600	76.166%
3	20:53:55	1.062	1.099	419.500	379.700	408.400	74.550%
x		1.157	1.133	424.500	380.000	410.300	76.208%
σ		0.092	0.066	5.160	0.335	2.438	1.680%
%RSD		7.960	5.800	1.216	0.088	0.594	2.204

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Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:58:16	97.923%	64.750	4.554	22.640	22.930	0.000	161.500	3673.000
2	20:58:24	98.605%	63.890	4.145	23.210	22.120	0.000	148.800	3601.000
3	20:58:32	99.884%	62.290	4.042	22.540	21.040	0.000	153.000	3586.000
x		98.804%	63.650	4.247	22.800	22.030	0.000	154.500	3620.000
σ		0.996%	1.249	0.271	0.362	0.949	0.000	6.444	46.480
%RSD		1.008	1.963	6.375	1.588	4.308	0.000	4.172	1.284

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:58:16	3689.000	198500.000	8407.000	0.000	3997.000	12510.000	11490.000	110.683%
2	20:58:24	3580.000	193700.000	8185.000	0.000	3882.000	12060.000	11060.000	112.050%
3	20:58:32	3570.000	193900.000	8121.000	0.000	3887.000	12030.000	11110.000	110.006%
x		3613.000	195400.000	8238.000	0.000	3922.000	12200.000	11220.000	110.913%
σ		66.350	2668.000	150.200	0.000	64.710	270.200	232.800	1.041%
%RSD		1.836	1.365	1.824	0.000	1.650	2.215	2.075	0.939

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:58:16	13530.000	799.300	475.700	1233.000	453900.000	479300.000	19.830	75.250
2	20:58:24	12130.000	800.600	479.900	1203.000	460000.000	487100.000	19.610	72.710
3	20:58:32	13070.000	832.000	492.600	1202.000	470900.000	498500.000	20.110	77.230
x		12910.000	810.700	482.800	1213.000	461600.000	488300.000	19.850	75.060
σ		714.400	18.530	8.820	17.740	8579.000	9638.000	0.250	2.265
%RSD		5.534	2.286	1.827	1.463	1.858	1.974	1.260	3.018

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:58:16	129.800	130.500	306.700	308.800	31.750	30.020	33.050	0.000
2	20:58:24	127.200	133.000	308.500	314.200	33.290	24.600	21.980	0.000
3	20:58:32	131.200	136.200	314.900	319.800	32.610	28.880	43.530	0.000
x		129.400	133.200	310.100	314.300	32.550	27.840	32.850	0.000
σ		1.999	2.850	4.301	5.522	0.771	2.855	10.770	0.000
%RSD		1.544	2.139	1.387	1.757	2.368	10.260	32.800	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:58:16	194.500	0.000	33.630	36.390	76.086%	1.411	0.366	20.100
2	20:58:24	196.600	0.000	36.640	36.060	77.152%	1.272	0.379	15.090
3	20:58:32	196.100	0.000	35.600	37.030	77.978%	1.351	0.523	18.120
x		195.700	0.000	35.290	36.490	77.072%	1.345	0.423	17.770
σ		1.069	0.000	1.531	0.495	0.949%	0.070	0.087	2.526
%RSD		0.546	0.000	4.337	1.357	1.231	5.190	20.540	14.220

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	20:58:16	1.356	75.441%	59.350	3.877	4.562	393.200	385.100	96.538%
2	20:58:24	1.425	76.523%	59.150	3.951	3.921	396.500	395.200	97.843%
3	20:58:32	1.341	76.899%	59.040	4.469	4.559	394.200	396.200	99.153%
x		1.374	76.288%	59.180	4.099	4.348	394.600	392.200	97.845%
σ		0.045	0.757%	0.158	0.323	0.370	1.724	6.140	1.307%
%RSD		3.259	0.992	0.267	7.872	8.499	0.437	1.566	1.336

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	20:58:16	1.489	1.437	286.800	253.100	281.200	61.208%
2	20:58:24	1.403	1.526	283.300	251.200	277.700	63.153%
3	20:58:32	1.498	1.412	285.200	253.600	280.800	64.258%
x		1.463	1.458	285.100	252.600	279.900	62.873%
σ		0.053	0.060	1.751	1.256	1.938	1.544%
%RSD		3.613	4.104	0.614	0.497	0.692	2.456

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User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:02:52	96.875%	69.980	3.576	15.750	15.270	0.000	113.000	3142.000
2	21:03:00	99.525%	67.040	3.088	16.420	16.540	0.000	103.800	3114.000
3	21:03:08	100.067%	66.800	3.036	15.800	15.390	0.000	112.400	3132.000
x		98.822%	67.940	3.234	15.990	15.730	0.000	109.700	3129.000
σ		1.708%	1.768	0.298	0.375	0.699	0.000	5.148	14.120
%RSD		1.728	2.602	9.206	2.347	4.443	0.000	4.692	0.451

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:02:52	3139.000	175700.000	7104.000	0.000	3519.000	10570.000	9725.000	108.844%
2	21:03:00	3087.000	173600.000	7009.000	0.000	3487.000	10260.000	9565.000	111.424%
3	21:03:08	3138.000	175400.000	7044.000	0.000	3508.000	10310.000	9592.000	110.361%
x		3121.000	174900.000	7052.000	0.000	3504.000	10380.000	9628.000	110.210%
σ		29.790	1101.000	48.140	0.000	16.300	169.500	85.640	1.297%
%RSD		0.954	0.630	0.683	0.000	0.465	1.633	0.890	1.177

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:02:52	11590.000	776.300	461.300	1047.000	432700.000	453900.000	17.540	73.760
2	21:03:00	11380.000	772.400	461.100	1027.000	430000.000	449300.000	17.590	70.110
3	21:03:08	11480.000	791.600	472.000	1041.000	441300.000	463500.000	18.540	72.700
x		11480.000	780.100	464.800	1038.000	434700.000	455600.000	17.890	72.190
σ		108.500	10.160	6.196	9.861	5878.000	7226.000	0.563	1.878
%RSD		0.945	1.302	1.333	0.950	1.352	1.586	3.146	2.601

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:02:52	117.300	121.600	291.700	296.000	29.070	31.240	42.380	0.000
2	21:03:00	118.200	123.200	293.600	287.800	31.840	29.670	38.840	0.000
3	21:03:08	120.300	124.000	296.500	294.100	30.510	28.680	32.260	0.000
x		118.600	122.900	294.000	292.600	30.470	29.860	37.830	0.000
σ		1.523	1.190	2.417	4.277	1.385	1.290	5.138	0.000
%RSD		1.284	0.968	0.822	1.462	4.543	4.319	13.580	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:02:52	162.000	0.000	37.940	37.640	81.119%	1.275	0.359	17.480
2	21:03:00	165.600	0.000	38.310	38.250	81.528%	1.305	0.409	15.030
3	21:03:08	165.400	0.000	38.890	38.600	82.489%	1.222	0.476	14.350
x		164.300	0.000	38.380	38.170	81.712%	1.267	0.415	15.620
σ		1.995	0.000	0.477	0.485	0.703%	0.042	0.059	1.646
%RSD		1.214	0.000	1.241	1.270	0.861	3.332	14.150	10.540

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:02:52	1.151	78.497%	61.380	4.431	5.051	333.300	330.000	103.111%
2	21:03:00	1.139	79.359%	61.890	4.740	4.709	348.400	338.300	104.827%
3	21:03:08	1.482	80.871%	61.200	4.392	4.130	347.600	338.500	103.840%
x		1.257	79.576%	61.490	4.521	4.630	343.100	335.600	103.926%
σ		0.195	1.202%	0.359	0.190	0.466	8.498	4.839	0.861%
%RSD		15.470	1.510	0.584	4.209	10.060	2.477	1.442	0.829

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	21:02:52	1.323	1.508	300.000	268.600	293.800	73.847%
2	21:03:00	1.575	1.490	302.500	270.600	297.600	73.018%
3	21:03:08	1.539	1.451	300.800	268.700	294.600	73.937%
x		1.479	1.483	301.100	269.300	295.300	73.600%
σ		0.136	0.029	1.259	1.119	1.981	0.507%
%RSD		9.223	1.950	0.418	0.416	0.671	0.688

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Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:07:28	107.799%	202.000	5.689	208.700	200.400	0.000	30600.000	49700.000
2	21:07:36	108.469%	203.300	5.726	197.900	202.500	0.000	30800.000	50150.000
3	21:07:44	110.078%	197.500	5.243	199.200	197.700	0.000	30400.000	49340.000
x		108.782%	201.000	5.553	201.900	200.200	0.000	30600.000	49730.000
σ		1.171%	3.040	0.269	5.877	2.415	0.000	198.500	405.200
%RSD		1.077	1.513	4.837	2.910	1.206	0.000	0.649	0.815

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:07:28	49700.000	85040.000	8070.000	0.000	28480.000	292900.000	293800.000	92.593%
2	21:07:36	49960.000	85380.000	8052.000	0.000	28540.000	292300.000	291700.000	93.077%
3	21:07:44	49290.000	84600.000	7935.000	0.000	28110.000	288900.000	289500.000	93.451%
x		49650.000	85000.000	8019.000	0.000	28380.000	291400.000	291700.000	93.040%
σ		341.300	391.200	73.690	0.000	232.600	2141.000	2147.000	0.430%
%RSD		0.687	0.460	0.919	0.000	0.820	0.735	0.736	0.463

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:07:28	1653.000	212.100	257.700	1486.000	193100.000	194800.000	56.350	137.800
2	21:07:36	1638.000	216.200	258.600	1475.000	192900.000	192700.000	55.830	134.100
3	21:07:44	1601.000	213.000	263.500	1449.000	195600.000	195000.000	57.330	136.500
x		1631.000	213.800	259.900	1470.000	193900.000	194200.000	56.500	136.100
σ		26.960	2.179	3.150	19.120	1496.000	1271.000	0.763	1.884
%RSD		1.653	1.019	1.212	1.300	0.771	0.655	1.350	1.384

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:07:28	67.020	69.580	383.300	390.100	86.330	9.030	7.243	0.000
2	21:07:36	69.180	69.980	394.300	397.200	85.460	6.903	17.670	0.000
3	21:07:44	69.890	69.990	393.500	393.900	85.920	8.672	7.016	0.000
x		68.700	69.850	390.400	393.700	85.900	8.201	10.640	0.000
σ		1.492	0.232	6.159	3.543	0.436	1.139	6.088	0.000
%RSD		2.172	0.331	1.578	0.900	0.508	13.890	57.200	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:07:28	1617.000	0.000	31.510	30.940	78.246%	0.466	0.288	5.492
2	21:07:36	1610.000	0.000	31.210	31.220	78.594%	0.451	0.250	6.554
3	21:07:44	1616.000	0.000	30.520	30.040	80.241%	0.355	0.243	5.921
x		1614.000	0.000	31.080	30.730	79.027%	0.424	0.260	5.989
σ		4.008	0.000	0.504	0.620	1.066%	0.060	0.024	0.535
%RSD		0.248	0.000	1.621	2.017	1.348	14.150	9.263	8.928

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:07:28	2.412	74.967%	49.300	1.040	1.148	147.100	134.300	83.876%
2	21:07:36	2.387	75.037%	46.990	1.037	1.130	135.900	138.900	85.426%
3	21:07:44	2.447	76.990%	47.560	1.085	1.256	138.000	133.200	88.006%
x		2.415	75.665%	47.950	1.054	1.178	140.300	135.500	85.769%
σ		0.030	1.148%	1.201	0.027	0.068	5.953	3.014	2.086%
%RSD		1.249	1.518	2.505	2.538	5.746	4.243	2.225	2.433

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	21:07:28	1.348	1.417	85.250	77.070	81.270	73.702%
2	21:07:36	1.483	1.465	86.870	76.940	81.910	74.017%
3	21:07:44	1.403	1.382	84.600	77.580	81.500	74.402%
x		1.411	1.421	85.570	77.200	81.560	74.040%
σ		0.068	0.042	1.173	0.339	0.326	0.351%
%RSD		4.830	2.945	1.371	0.439	0.399	0.473

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Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:12:05	116.802%	173.300	4.507	172.100	176.000	0.000	26950.000	44150.000
2	21:12:13	117.168%	171.800	4.951	166.300	169.900	0.000	26100.000	42930.000
3	21:12:21	116.083%	170.600	4.888	166.800	171.200	0.000	26310.000	43150.000
x		116.684%	171.900	4.782	168.400	172.300	0.000	26450.000	43410.000
σ		0.552%	1.313	0.240	3.214	3.194	0.000	443.700	651.400
%RSD		0.473	0.764	5.022	1.908	1.853	0.000	1.677	1.501

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:12:05	43800.000	78460.000	6905.000	0.000	24010.000	248600.000	247900.000	91.770%
2	21:12:13	43000.000	76760.000	6746.000	0.000	23630.000	244600.000	243000.000	92.608%
3	21:12:21	42830.000	76260.000	6637.000	0.000	23440.000	241800.000	242500.000	90.960%
x		43210.000	77160.000	6763.000	0.000	23690.000	245000.000	244500.000	91.779%
σ		522.400	1154.000	134.800	0.000	287.200	3414.000	2999.000	0.824%
%RSD		1.209	1.496	1.994	0.000	1.212	1.393	1.227	0.898

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:12:05	1796.000	192.500	216.400	1369.000	158600.000	158900.000	48.030	115.400
2	21:12:13	1772.000	193.600	219.400	1354.000	160600.000	161500.000	48.170	110.300
3	21:12:21	1753.000	193.400	223.100	1355.000	164300.000	164300.000	49.480	109.200
x		1773.000	193.200	219.600	1360.000	161200.000	161600.000	48.560	111.700
σ		21.750	0.588	3.344	8.268	2850.000	2717.000	0.798	3.300
%RSD		1.226	0.304	1.522	0.608	1.768	1.682	1.643	2.956

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:12:05	52.860	55.020	321.300	325.900	69.750	6.175	0.323	0.000
2	21:12:13	54.870	55.730	324.900	329.800	71.120	7.153	2.410	0.000
3	21:12:21	54.320	55.570	332.200	330.700	73.940	5.226	8.027	0.000
x		54.020	55.440	326.100	328.800	71.600	6.185	3.586	0.000
σ		1.037	0.374	5.553	2.553	2.136	0.964	3.985	0.000
%RSD		1.920	0.675	1.703	0.777	2.983	15.580	111.100	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:12:05	1290.000	0.000	22.840	23.830	74.823%	0.384	0.234	5.911
2	21:12:13	1317.000	0.000	24.790	24.930	74.466%	0.456	0.196	4.513
3	21:12:21	1318.000	0.000	23.320	24.920	74.496%	0.380	0.269	4.892
x		1308.000	0.000	23.650	24.560	74.595%	0.407	0.233	5.105
σ		16.200	0.000	1.015	0.629	0.198%	0.043	0.036	0.723
%RSD		1.239	0.000	4.291	2.562	0.266	10.590	15.600	14.170

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:12:05	2.242	72.092%	48.470	1.136	0.872	135.000	123.000	83.146%
2	21:12:13	2.227	72.247%	48.370	0.984	0.730	130.500	130.000	84.164%
3	21:12:21	2.575	72.253%	49.660	1.029	1.019	119.700	128.200	84.542%
x		2.348	72.197%	48.830	1.049	0.874	128.400	127.100	83.951%
σ		0.197	0.091%	0.719	0.078	0.144	7.886	3.652	0.722%
%RSD		8.379	0.127	1.471	7.466	16.510	6.143	2.874	0.860

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	21:12:05	1.302	1.194	73.690	67.200	70.100	76.152%
2	21:12:13	1.139	1.221	74.600	67.070	70.590	76.964%
3	21:12:21	1.205	1.210	74.230	66.330	70.190	76.036%
x		1.215	1.208	74.170	66.860	70.290	76.384%
σ		0.082	0.013	0.459	0.470	0.260	0.506%
%RSD		6.747	1.117	0.618	0.702	0.370	0.662

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Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:16:45	117.247%	184.900	4.680	179.600	181.200	0.000	31480.000	46010.000
2	21:16:53	117.071%	180.000	4.953	175.600	180.500	0.000	31060.000	45510.000
3	21:17:01	116.876%	182.300	4.924	177.600	179.800	0.000	30960.000	45330.000
x		117.065%	182.400	4.852	177.600	180.500	0.000	31170.000	45620.000
σ		0.186%	2.440	0.150	2.041	0.723	0.000	273.600	353.200
%RSD		0.159	1.338	3.087	1.149	0.400	0.000	0.878	0.774

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:16:45	45790.000	84910.000	7159.000	0.000	25140.000	227700.000	229700.000	86.776%
2	21:16:53	45330.000	83780.000	7080.000	0.000	24730.000	224600.000	226000.000	87.657%
3	21:17:01	45080.000	83650.000	7051.000	0.000	24760.000	227300.000	226500.000	87.136%
x		45400.000	84110.000	7096.000	0.000	24880.000	226500.000	227400.000	87.190%
σ		360.600	690.700	56.010	0.000	230.900	1683.000	2021.000	0.443%
%RSD		0.794	0.821	0.789	0.000	0.928	0.743	0.889	0.508

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:16:45	1998.000	203.700	286.600	1506.000	168100.000	169700.000	53.040	141.800
2	21:16:53	1965.000	205.200	288.400	1489.000	169700.000	171100.000	52.910	138.900
3	21:17:01	1944.000	207.700	293.500	1481.000	171500.000	171700.000	51.010	141.300
x		1969.000	205.500	289.500	1492.000	169700.000	170800.000	52.320	140.700
σ		27.070	1.991	3.576	12.900	1703.000	996.600	1.138	1.519
%RSD		1.375	0.969	1.235	0.865	1.003	0.583	2.174	1.080

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:16:45	82.320	84.340	334.700	353.300	74.140	9.638	5.392	0.000
2	21:16:53	83.120	83.080	354.000	349.000	72.330	5.210	12.390	0.000
3	21:17:01	81.890	84.480	359.100	355.000	72.930	6.624	8.272	0.000
x		82.440	83.960	349.300	352.400	73.130	7.157	8.683	0.000
σ		0.628	0.769	12.870	3.063	0.921	2.262	3.515	0.000
%RSD		0.762	0.916	3.685	0.869	1.259	31.600	40.480	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:16:45	1224.000	0.000	27.150	27.770	70.899%	0.484	0.205	4.136
2	21:16:53	1249.000	0.000	27.630	28.600	72.053%	0.417	0.181	5.953
3	21:17:01	1257.000	0.000	27.810	26.970	72.642%	0.459	0.187	4.720
x		1244.000	0.000	27.530	27.780	71.865%	0.453	0.191	4.937
σ		16.930	0.000	0.341	0.814	0.886%	0.034	0.012	0.928
%RSD		1.361	0.000	1.238	2.929	1.234	7.443	6.383	18.790

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:16:45	1.910	67.916%	53.650	1.034	0.939	145.000	136.800	79.878%
2	21:16:53	2.368	68.533%	53.390	0.953	1.032	144.200	142.700	80.580%
3	21:17:01	1.852	70.567%	51.780	1.477	0.707	136.400	141.900	81.678%
x		2.043	69.005%	52.940	1.155	0.893	141.900	140.500	80.712%
σ		0.283	1.387%	1.016	0.282	0.167	4.755	3.220	0.907%
%RSD		13.840	2.010	1.919	24.430	18.740	3.352	2.292	1.124

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	21:16:45	1.257	1.154	77.970	71.860	75.350	69.190%
2	21:16:53	1.370	1.297	78.280	70.560	74.380	69.244%
3	21:17:01	1.216	1.285	78.280	70.370	74.700	69.367%
x		1.281	1.245	78.180	70.930	74.810	69.267%
σ		0.080	0.080	0.183	0.810	0.493	0.091%
%RSD		6.252	6.384	0.234	1.142	0.659	0.131

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User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:21:23	111.694%	179.200	4.830	185.400	186.700	0.000	26830.000	44890.000
2	21:21:31	109.883%	177.300	5.202	187.600	187.400	0.000	26410.000	44220.000
3	21:21:39	110.164%	178.700	4.709	184.700	187.800	0.000	26570.000	44520.000
x		110.580%	178.400	4.914	185.900	187.300	0.000	26610.000	44550.000
σ		0.974%	1.011	0.257	1.519	0.566	0.000	209.800	334.800
%RSD		0.881	0.567	5.233	0.817	0.302	0.000	0.789	0.752

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:21:23	44690.000	80160.000	6547.000	0.000	25320.000	210800.000	210400.000	84.013%
2	21:21:31	43970.000	79110.000	6511.000	0.000	24900.000	207400.000	208900.000	84.127%
3	21:21:39	44120.000	79390.000	6471.000	0.000	25120.000	209300.000	210700.000	83.420%
x		44260.000	79550.000	6510.000	0.000	25110.000	209200.000	210000.000	83.853%
σ		376.000	543.300	38.050	0.000	209.500	1687.000	931.200	0.379%
%RSD		0.849	0.683	0.584	0.000	0.834	0.806	0.444	0.452

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:21:23	1699.000	185.800	235.400	1277.000	161500.000	161900.000	47.150	115.600
2	21:21:31	1702.000	192.100	242.400	1262.000	167100.000	168000.000	48.910	121.900
3	21:21:39	1727.000	196.400	249.300	1280.000	170600.000	170300.000	49.070	124.700
x		1709.000	191.400	242.400	1273.000	166400.000	166700.000	48.380	120.700
σ		15.500	5.331	6.931	9.585	4599.000	4324.000	1.067	4.625
%RSD		0.907	2.785	2.860	0.753	2.764	2.593	2.205	3.831

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:21:23	52.550	55.890	334.200	330.400	70.040	4.400	10.240	0.000
2	21:21:31	56.060	55.920	345.300	327.700	73.480	8.755	6.779	0.000
3	21:21:39	54.750	58.410	347.700	338.500	75.210	8.982	7.523	0.000
x		54.450	56.740	342.400	332.200	72.910	7.379	8.179	0.000
σ		1.775	1.449	7.184	5.585	2.631	2.583	1.820	0.000
%RSD		3.260	2.553	2.098	1.681	3.609	35.000	22.250	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:21:23	1092.000	0.000	26.250	27.000	68.434%	0.481	0.250	5.609
2	21:21:31	1122.000	0.000	29.070	27.650	70.263%	0.426	0.303	6.083
3	21:21:39	1122.000	0.000	28.970	27.830	70.447%	0.398	0.224	6.032
x		1112.000	0.000	28.100	27.490	69.715%	0.435	0.259	5.908
σ		17.730	0.000	1.598	0.435	1.113%	0.042	0.040	0.260
%RSD		1.594	0.000	5.688	1.580	1.596	9.745	15.530	4.401

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:21:23	2.302	65.831%	47.460	1.292	1.073	136.200	129.300	72.429%
2	21:21:31	2.325	68.115%	44.780	1.309	1.154	133.500	126.900	74.944%
3	21:21:39	2.312	68.892%	47.390	1.149	1.272	134.800	133.200	75.697%
x		2.313	67.613%	46.540	1.250	1.166	134.800	129.800	74.356%
σ		0.011	1.591%	1.528	0.088	0.100	1.326	3.191	1.711%
%RSD		0.490	2.353	3.283	7.020	8.571	0.983	2.458	2.301

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	21:21:23	1.355	1.242	77.760	66.930	72.750	53.015%
2	21:21:31	1.212	1.291	75.200	66.950	72.150	57.293%
3	21:21:39	1.247	1.253	76.350	67.190	72.190	58.766%
x		1.272	1.262	76.440	67.020	72.360	56.358%
σ		0.075	0.026	1.283	0.143	0.332	2.987%
%RSD		5.876	2.057	1.678	0.213	0.459	5.301

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User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:26:02	110.724%	186.600	4.918	206.000	205.300	0.000	27660.000	47800.000
2	21:26:10	109.822%	186.400	5.197	207.700	210.800	0.000	27440.000	47500.000
3	21:26:18	110.724%	186.400	5.224	206.700	208.000	0.000	27510.000	47440.000
x		110.424%	186.400	5.113	206.800	208.000	0.000	27540.000	47580.000
σ		0.521%	0.119	0.169	0.824	2.732	0.000	114.000	194.900
%RSD		0.472	0.064	3.310	0.398	1.313	0.000	0.414	0.410

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:26:02	47530.000	84720.000	19390.000	0.000	26830.000	258700.000	259400.000	80.776%
2	21:26:10	47410.000	84390.000	19420.000	0.000	26690.000	254200.000	255600.000	81.556%
3	21:26:18	47470.000	84830.000	19390.000	0.000	26860.000	257000.000	258400.000	81.662%
x		47470.000	84650.000	19400.000	0.000	26800.000	256600.000	257800.000	81.331%
σ		58.770	229.800	19.120	0.000	88.220	2291.000	1927.000	0.484%
%RSD		0.124	0.271	0.099	0.000	0.329	0.893	0.748	0.595

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:26:02	1655.000	202.800	243.800	1248.000	170100.000	171300.000	47.480	113.400
2	21:26:10	1637.000	201.900	250.200	1230.000	171400.000	173300.000	48.360	113.800
3	21:26:18	1653.000	205.600	250.300	1242.000	174000.000	176500.000	49.330	116.600
x		1648.000	203.400	248.100	1240.000	171800.000	173700.000	48.390	114.600
σ		9.656	1.955	3.751	9.440	1979.000	2612.000	0.925	1.778
%RSD		0.586	0.961	1.512	0.761	1.151	1.504	1.912	1.551

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:26:02	52.950	56.600	355.100	348.600	75.790	7.632	13.260	0.000
2	21:26:10	54.080	54.100	354.900	350.800	76.870	5.979	9.660	0.000
3	21:26:18	55.580	56.800	364.700	354.300	75.180	5.956	16.440	0.000
x		54.210	55.830	358.200	351.200	75.950	6.522	13.120	0.000
σ		1.318	1.506	5.610	2.904	0.852	0.961	3.392	0.000
%RSD		2.432	2.698	1.566	0.827	1.122	14.740	25.850	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:26:02	1328.000	0.000	32.250	30.500	66.796%	0.359	0.218	4.416
2	21:26:10	1313.000	0.000	30.400	32.030	68.284%	0.382	0.260	6.260
3	21:26:18	1361.000	0.000	31.800	31.640	68.647%	0.395	0.274	5.191
x		1334.000	0.000	31.490	31.390	67.909%	0.379	0.250	5.289
σ		24.780	0.000	0.963	0.798	0.981%	0.018	0.029	0.926
%RSD		1.857	0.000	3.057	2.542	1.444	4.863	11.750	17.510

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:26:02	2.366	65.185%	51.240	1.145	0.861	133.600	131.600	75.105%
2	21:26:10	2.585	66.490%	49.870	0.921	0.990	129.200	126.600	78.258%
3	21:26:18	2.315	66.612%	52.380	1.429	1.170	127.300	133.200	77.094%
x		2.422	66.096%	51.160	1.165	1.007	130.000	130.500	76.819%
σ		0.143	0.791%	1.259	0.255	0.155	3.217	3.489	1.595%
%RSD		5.916	1.196	2.461	21.900	15.410	2.474	2.675	2.076

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	21:26:02	1.402	1.406	79.310	69.480	75.190	67.440%
2	21:26:10	1.421	1.407	77.600	68.790	74.210	68.885%
3	21:26:18	1.525	1.461	78.100	69.430	74.530	67.656%
x		1.449	1.425	78.340	69.230	74.650	67.994%
σ		0.066	0.031	0.879	0.388	0.498	0.780%
%RSD		4.546	2.207	1.121	0.560	0.667	1.147

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User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:34:20	96.199%	104.100	105.200	97.970	98.070	0.000	52860.000	52930.000
2	21:34:28	98.337%	100.200	100.800	95.980	95.670	0.000	52020.000	52110.000
3	21:34:36	98.124%	99.780	101.200	94.370	93.780	0.000	51240.000	51490.000
x		97.553%	101.364%	102.410%	96.107%	95.838%	0.000	104.078%	104.352%
σ		1.178%	n/a	n/a	n/a	n/a	0.000	n/a	n/a
%RSD		1.207	2.346	2.367	1.880	2.248	0.000	1.558	1.381

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:34:20	52740.000	541.500	5516.000	0.000	53640.000	53000.000	53230.000	96.300%
2	21:34:28	52130.000	536.100	5377.000	0.000	52770.000	52380.000	52810.000	97.714%
3	21:34:36	51530.000	528.600	5357.000	0.000	52070.000	51570.000	51810.000	97.737%
x		104.268%	107.075%	108.336%	0.000	105.658%	104.634%	105.227%	97.250%
σ		n/a	n/a	n/a	0.000	n/a	n/a	n/a	0.823%
%RSD		1.155	1.209	1.598	0.000	1.490	1.366	1.385	0.846

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:34:20	110.700	97.980	96.080	537.700	24260.000	24100.000	98.740	97.830
2	21:34:28	108.600	97.670	95.280	528.900	24540.000	24270.000	99.230	102.800
3	21:34:36	108.700	95.920	95.920	526.900	24820.000	24730.000	101.800	99.570
x		109.312%	97.192%	95.761%	106.238%	98.159%	97.467%	99.929%	100.058%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		1.085	1.143	0.444	1.086	1.126	1.352	1.657	2.500

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:34:20	104.000	103.800	100.700	100.800	100.800	97.190	100.200	0.000
2	21:34:28	103.100	102.400	100.700	99.160	98.930	95.620	102.100	0.000
3	21:34:36	101.000	102.300	101.700	105.000	103.400	101.200	102.200	0.000
x		102.706%	102.819%	101.020%	101.634%	101.056%	98.009%	101.496%	0.000
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.000
%RSD		1.467	0.849	0.592	2.957	2.243	2.940	1.077	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:34:20	101.200	85.428%	105.600	104.900	86.798%	97.480	99.570	98.240
2	21:34:28	99.830	88.139%	104.300	105.400	87.296%	98.300	98.560	101.800
3	21:34:36	99.010	90.014%	106.800	106.200	89.864%	96.030	98.820	102.800
x		100.026%	87.860%	105.582%	105.489%	87.986%	97.270%	98.984%	100.945%
σ		n/a	2.305%	n/a	n/a	1.645%	n/a	n/a	n/a
%RSD		1.123	2.624	1.219	0.620	1.870	1.185	0.532	2.368

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:34:20	105.200	85.047%	101.900	100.500	99.610	97.400	98.280	87.823%
2	21:34:28	103.900	86.815%	102.400	101.500	101.300	96.560	100.800	88.666%
3	21:34:36	105.700	89.082%	102.300	99.770	99.350	98.900	95.120	88.878%
x		104.916%	86.981%	102.206%	100.577%	100.071%	97.619%	98.083%	88.455%
σ		n/a	2.023%	n/a	n/a	n/a	n/a	n/a	0.558%
%RSD		0.871	2.325	0.240	0.849	1.033	1.212	2.921	0.631

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	21:34:20	98.950	99.530	101.700	100.900	102.000	82.988%
2	21:34:28	99.330	100.400	101.100	103.100	102.700	83.369%
3	21:34:36	99.960	100.500	100.800	102.900	102.400	83.865%
x		99.412%	100.138%	101.185%	102.292%	102.341%	83.407%
σ		n/a	n/a	n/a	n/a	n/a	0.440%
%RSD		0.510	0.532	0.481	1.188	0.311	0.527

CCB2 10/9/2018 9:39:50 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:38:59	99.440%	1.553	0.037	0.433	0.293	0.000	-168.100	6.749
2	21:39:06	99.366%	0.558	0.005	0.139	0.300	0.000	-168.000	7.362
3	21:39:15	97.417%	0.750	0.025	0.512	0.435	0.000	-164.200	6.870
x		98.741%	0.954	0.022	0.361	0.343	0.000	-166.800	6.994
σ		1.147%	0.528	0.016	0.197	0.080	0.000	2.226	0.325
%RSD		1.162	55.330	73.590	54.400	23.310	0.000	1.335	4.642

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:38:59	6.820	1.037	52.520	0.000	37.750	7.191	15.040	101.287%
2	21:39:06	7.521	1.078	40.830	0.000	33.080	11.150	13.720	101.465%
3	21:39:15	7.879	1.207	84.920	0.000	38.160	3.536	15.790	100.212%
x		7.407	1.107	59.420	0.000	36.330	7.291	14.850	100.988%
σ		0.539	0.089	22.840	0.000	2.822	3.806	1.047	0.678%
%RSD		7.276	8.016	38.430	0.000	7.768	52.200	7.053	0.671

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:38:59	-0.030	0.046	-0.044	0.202	6.107	4.253	0.019	0.701
2	21:39:06	0.171	0.032	-0.060	0.284	6.148	5.505	0.000	0.344
3	21:39:15	-0.001	0.060	0.077	0.230	4.702	5.499	-0.009	0.534
x		0.047	0.046	-0.009	0.239	5.653	5.086	0.003	0.526
σ		0.109	0.014	0.075	0.041	0.824	0.721	0.014	0.178
%RSD		232.300	30.440	843.500	17.260	14.570	14.170	404.600	33.890

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:38:59	-0.020	0.065	0.259	-0.247	-0.018	-0.106	0.578	0.000
2	21:39:06	-0.042	0.005	0.092	-0.140	0.133	0.064	0.578	0.000
3	21:39:15	0.000	0.062	0.253	-0.091	0.056	0.560	0.201	0.000
x		-0.020	0.044	0.201	-0.160	0.057	0.173	0.452	0.000
σ		0.021	0.034	0.094	0.080	0.075	0.346	0.217	0.000
%RSD		102.800	76.060	46.870	50.080	132.200	200.200	48.040	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:38:59	-0.011	91.438%	0.310	0.219	94.514%	0.034	-0.016	-0.052
2	21:39:06	0.087	91.438%	0.324	0.218	94.884%	-0.011	-0.005	-0.047
3	21:39:15	0.064	94.508%	0.228	0.232	95.946%	-0.007	-0.024	0.191
x		0.047	92.461%	0.287	0.223	95.115%	0.005	-0.015	0.030
σ		0.052	1.773%	0.052	0.007	0.743%	0.025	0.010	0.139
%RSD		109.800	1.917	18.190	3.334	0.782	479.800	64.750	457.400

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:38:59	0.015	92.625%	0.171	0.205	0.213	-0.039	0.072	92.174%
2	21:39:06	0.006	92.427%	-0.074	0.205	0.158	-0.039	0.037	92.521%
3	21:39:15	0.024	92.605%	0.055	0.223	0.180	-0.039	-0.033	91.348%
x		0.015	92.552%	0.051	0.211	0.184	-0.039	0.025	92.015%
σ		0.009	0.109%	0.122	0.011	0.028	0.000	0.053	0.603%
%RSD		58.730	0.118	241.600	5.030	15.070	0.000	209.900	0.655

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	21:38:59	0.029	0.012	0.038	0.013	0.037	86.323%
2	21:39:06	0.018	0.018	0.042	0.039	0.037	86.797%
3	21:39:15	0.022	0.030	0.040	0.010	0.038	84.632%
x		0.023	0.020	0.040	0.021	0.037	85.917%
σ		0.006	0.009	0.002	0.016	0.001	1.138%
%RSD		24.700	47.490	4.942	77.370	1.502	1.325

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User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:43:38	105.556%	198.900	5.511	204.000	204.300	0.000	29750.000	49120.000
2	21:43:46	104.246%	198.700	5.256	202.200	204.900	0.000	29360.000	48390.000
3	21:43:54	105.124%	196.600	5.145	205.600	203.500	0.000	29220.000	48290.000
x		104.976%	198.100	5.304	203.900	204.200	0.000	29440.000	48600.000
σ		0.667%	1.268	0.188	1.729	0.688	0.000	276.200	457.900
%RSD		0.636	0.640	3.539	0.848	0.337	0.000	0.938	0.942

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:43:38	48790.000	87120.000	6427.000	0.000	27750.000	293900.000	295400.000	81.820%
2	21:43:46	48210.000	85690.000	6296.000	0.000	27150.000	288800.000	289800.000	82.186%
3	21:43:54	47960.000	85340.000	6257.000	0.000	27090.000	285800.000	288600.000	82.532%
x		48320.000	86050.000	6327.000	0.000	27330.000	289500.000	291300.000	82.179%
σ		422.700	944.700	89.170	0.000	368.700	4060.000	3670.000	0.356%
%RSD		0.875	1.098	1.409	0.000	1.349	1.402	1.260	0.433

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:43:38	1614.000	190.800	237.800	1352.000	175500.000	176200.000	50.160	118.900
2	21:43:46	1568.000	195.200	238.100	1329.000	175300.000	175100.000	49.960	119.900
3	21:43:54	1581.000	201.000	245.000	1320.000	180100.000	180300.000	52.040	126.100
x		1587.000	195.700	240.300	1333.000	176900.000	177200.000	50.720	121.600
σ		23.820	5.132	4.087	16.460	2747.000	2729.000	1.149	3.922
%RSD		1.501	2.623	1.701	1.235	1.552	1.540	2.265	3.224

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:43:38	61.260	64.830	364.800	371.100	76.690	8.836	19.550	0.000
2	21:43:46	59.720	61.460	359.900	351.500	76.840	5.841	12.250	0.000
3	21:43:54	62.270	65.700	364.100	374.700	76.350	5.855	17.270	0.000
x		61.080	64.000	362.900	365.800	76.630	6.844	16.360	0.000
σ		1.282	2.236	2.645	12.520	0.250	1.725	3.735	0.000
%RSD		2.098	3.494	0.729	3.422	0.326	25.200	22.830	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:43:38	1526.000	0.000	27.480	27.630	67.746%	0.427	0.204	5.531
2	21:43:46	1498.000	0.000	26.480	25.500	70.556%	0.418	0.188	6.182
3	21:43:54	1560.000	0.000	29.140	29.430	70.078%	0.436	0.138	5.217
x		1528.000	0.000	27.700	27.520	69.460%	0.427	0.177	5.644
σ		31.250	0.000	1.345	1.970	1.503%	0.009	0.034	0.492
%RSD		2.045	0.000	4.853	7.159	2.164	2.086	19.410	8.723

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:43:38	2.383	65.771%	45.080	1.035	1.006	133.800	140.300	75.300%
2	21:43:46	2.157	68.791%	43.070	1.215	1.060	135.000	137.000	79.521%
3	21:43:54	2.140	68.550%	43.370	1.353	1.297	140.600	142.000	78.918%
x		2.227	67.704%	43.840	1.201	1.121	136.500	139.800	77.913%
σ		0.135	1.678%	1.087	0.160	0.155	3.574	2.558	2.283%
%RSD		6.081	2.479	2.480	13.300	13.820	2.619	1.830	2.930

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	21:43:38	1.341	1.377	80.620	72.460	76.600	60.196%
2	21:43:46	1.309	1.291	76.710	69.240	73.770	64.868%
3	21:43:54	1.363	1.408	80.500	73.770	77.890	65.509%
x		1.338	1.359	79.280	71.820	76.090	63.524%
σ		0.027	0.061	2.222	2.329	2.106	2.900%
%RSD		2.004	4.465	2.802	3.243	2.768	4.566

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Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:48:17	96.589%	39.260	0.979	39.310	40.490	0.000	5589.000	9399.000
2	21:48:25	95.048%	41.490	1.008	40.640	41.370	0.000	5555.000	9338.000
3	21:48:33	97.570%	40.380	1.290	38.180	40.320	0.000	5532.000	9305.000
x		96.402%	40.380	1.092	39.380	40.720	0.000	5559.000	9347.000
σ		1.271%	1.115	0.172	1.228	0.562	0.000	28.840	47.390
%RSD		1.319	2.762	15.730	3.120	1.381	0.000	0.519	0.507

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:48:17	9375.000	17010.000	1295.000	0.000	5515.000	57580.000	58060.000	83.754%
2	21:48:25	9340.000	16960.000	1282.000	0.000	5463.000	57650.000	57760.000	84.189%
3	21:48:33	9291.000	16930.000	1292.000	0.000	5460.000	58170.000	57880.000	84.501%
x		9335.000	16960.000	1289.000	0.000	5479.000	57800.000	57900.000	84.148%
σ		42.480	39.260	6.882	0.000	30.890	319.400	153.900	0.375%
%RSD		0.455	0.231	0.534	0.000	0.564	0.552	0.266	0.445

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:48:17	316.300	38.200	45.460	259.600	34460.000	34160.000	9.267	24.290
2	21:48:25	312.200	39.580	47.420	260.300	35300.000	35510.000	9.669	25.550
3	21:48:33	317.700	38.970	47.970	258.900	35510.000	35150.000	9.967	25.950
x		315.400	38.920	46.950	259.600	35090.000	34940.000	9.634	25.270
σ		2.846	0.688	1.320	0.666	558.000	697.200	0.352	0.867
%RSD		0.902	1.768	2.811	0.256	1.590	1.995	3.648	3.432

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:48:17	12.930	14.490	70.320	72.160	16.100	0.681	5.823	0.000
2	21:48:25	12.660	12.340	75.620	72.840	15.960	1.245	0.382	0.000
3	21:48:33	12.880	13.690	74.900	71.140	14.700	1.977	-3.682	0.000
x		12.820	13.510	73.610	72.050	15.590	1.301	0.841	0.000
σ		0.144	1.084	2.871	0.858	0.775	0.650	4.769	0.000
%RSD		1.126	8.027	3.900	1.191	4.969	49.950	567.000	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:48:17	287.800	80.276%	5.527	5.536	75.230%	0.069	0.049	1.013
2	21:48:25	287.800	82.235%	5.414	5.450	77.022%	0.080	0.015	0.904
3	21:48:33	283.000	84.201%	5.150	5.364	77.673%	0.019	0.027	1.571
x		286.200	82.237%	5.364	5.450	76.642%	0.056	0.030	1.163
σ		2.796	1.962%	0.194	0.086	1.265%	0.033	0.018	0.358
%RSD		0.977	2.386	3.607	1.577	1.651	58.180	58.390	30.780

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:48:17	0.422	73.052%	8.640	0.285	0.193	30.480	27.590	79.957%
2	21:48:25	0.481	74.564%	8.715	0.190	0.283	28.880	30.470	81.516%
3	21:48:33	0.476	77.261%	7.679	0.334	0.207	26.440	27.190	82.051%
x		0.460	74.959%	8.345	0.270	0.228	28.600	28.420	81.175%
σ		0.033	2.132%	0.577	0.074	0.048	2.035	1.789	1.088%
%RSD		7.090	2.845	6.919	27.300	21.150	7.116	6.295	1.340

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	21:48:17	0.290	0.244	15.480	14.360	14.790	76.927%
2	21:48:25	0.240	0.230	15.410	14.680	14.670	78.510%
3	21:48:33	0.284	0.251	15.560	14.310	14.950	77.147%
x		0.271	0.242	15.480	14.450	14.800	77.528%
σ		0.027	0.011	0.078	0.205	0.138	0.857%
%RSD		10.070	4.615	0.506	1.419	0.933	1.106

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User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:52:54	108.994%	208.700	48.180	1040.000	1036.000	0.000	79020.000	97750.000
2	21:53:02	109.371%	204.000	46.770	997.000	1008.000	0.000	77230.000	95860.000
3	21:53:10	109.341%	204.900	47.730	1004.000	1004.000	0.000	77220.000	96390.000
x		109.235%	205.900	47.560	1014.000	1016.000	0.000	77820.000	96670.000
σ		0.210%	2.483	0.718	23.150	17.040	0.000	1039.000	974.700
%RSD		0.192	1.206	1.510	2.284	1.677	0.000	1.336	1.008

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:52:54	97610.000	108600.000	11330.000	0.000	73420.000	288900.000	288000.000	81.627%
2	21:53:02	95250.000	106300.000	11040.000	0.000	71540.000	282200.000	284100.000	82.647%
3	21:53:10	95800.000	106600.000	10990.000	0.000	71850.000	282500.000	283300.000	81.743%
x		96220.000	107200.000	11120.000	0.000	72270.000	284500.000	285100.000	82.006%
σ		1237.000	1288.000	182.300	0.000	1007.000	3763.000	2540.000	0.558%
%RSD		1.286	1.202	1.639	0.000	1.393	1.322	0.891	0.681

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:52:54	2520.000	608.300	429.200	1847.000	192300.000	192200.000	491.300	559.300
2	21:53:02	2472.000	617.400	430.600	1814.000	192100.000	193500.000	495.000	552.500
3	21:53:10	2470.000	633.900	445.000	1811.000	195700.000	196100.000	498.500	567.400
x		2487.000	619.900	434.900	1824.000	193400.000	193900.000	494.900	559.700
σ		28.020	13.000	8.739	19.950	2046.000	1980.000	3.634	7.469
%RSD		1.126	2.097	2.009	1.094	1.058	1.021	0.734	1.334

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:52:54	284.700	293.800	805.900	828.500	113.900	16.150	26.730	0.000
2	21:53:02	282.000	290.000	839.800	827.700	116.500	14.000	24.100	0.000
3	21:53:10	288.600	294.200	823.300	834.900	117.800	14.200	12.450	0.000
x		285.100	292.600	823.000	830.400	116.100	14.780	21.090	0.000
σ		3.318	2.340	16.960	3.925	1.988	1.187	7.600	0.000
%RSD		1.164	0.800	2.061	0.473	1.713	8.030	36.030	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:52:54	2189.000	0.000	999.100	1004.000	67.063%	51.650	51.710	54.450
2	21:53:02	2222.000	0.000	1002.000	1005.000	67.892%	50.820	50.990	55.280
3	21:53:10	2244.000	0.000	1005.000	1000.000	68.439%	49.940	51.010	57.450
x		2218.000	0.000	1002.000	1003.000	67.798%	50.800	51.240	55.730
σ		27.570	0.000	3.006	2.446	0.693%	0.857	0.408	1.550
%RSD		1.243	0.000	0.300	0.244	1.021	1.688	0.796	2.781

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:52:54	84.170	64.483%	1951.000	295.800	288.500	1848.000	1860.000	79.548%
2	21:53:02	81.400	65.855%	1960.000	295.500	290.700	1845.000	1853.000	80.679%
3	21:53:10	83.490	67.033%	1932.000	297.600	287.600	1860.000	1874.000	80.763%
x		83.020	65.790%	1948.000	296.300	288.900	1851.000	1862.000	80.330%
σ		1.441	1.276%	14.560	1.115	1.581	7.864	10.970	0.679%
%RSD		1.736	1.940	0.748	0.376	0.547	0.425	0.589	0.845

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	21:52:54	49.980	50.300	106.000	98.190	101.500	71.666%
2	21:53:02	49.710	50.360	106.000	95.300	101.400	71.634%
3	21:53:10	50.720	50.430	105.900	97.080	101.700	72.337%
x		50.140	50.370	106.000	96.860	101.500	71.879%
σ		0.522	0.065	0.059	1.460	0.162	0.397%
%RSD		1.041	0.129	0.056	1.507	0.160	0.552

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User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:57:31	105.910%	215.100	47.160	1003.000	1015.000	0.000	77410.000	96360.000
2	21:57:39	105.721%	211.600	46.170	1006.000	1007.000	0.000	76830.000	95650.000
3	21:57:47	104.825%	214.600	46.370	1008.000	1005.000	0.000	76950.000	95920.000
x		105.485%	213.800	46.560	1006.000	1009.000	0.000	77060.000	95980.000
σ		0.579%	1.865	0.521	2.638	5.307	0.000	307.000	362.800
%RSD		0.549	0.873	1.119	0.262	0.526	0.000	0.398	0.378

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:57:31	95680.000	111200.000	8484.000	0.000	72130.000	313600.000	315700.000	79.291%
2	21:57:39	95040.000	110800.000	8389.000	0.000	71840.000	312600.000	315300.000	80.195%
3	21:57:47	95200.000	110900.000	8338.000	0.000	71800.000	312400.000	315500.000	79.242%
x		95310.000	111000.000	8403.000	0.000	71930.000	312900.000	315500.000	79.576%
σ		334.800	237.200	74.260	0.000	181.300	615.700	198.700	0.537%
%RSD		0.351	0.214	0.884	0.000	0.252	0.197	0.063	0.675

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:57:31	2528.000	607.000	430.000	1814.000	189800.000	191000.000	473.800	533.600
2	21:57:39	2540.000	655.000	464.100	1803.000	207700.000	208200.000	524.100	585.100
3	21:57:47	2519.000	636.200	444.100	1803.000	198200.000	198900.000	499.300	562.300
x		2529.000	632.700	446.100	1806.000	198600.000	199400.000	499.100	560.300
σ		10.510	24.160	17.180	6.136	8947.000	8598.000	25.130	25.770
%RSD		0.416	3.819	3.851	0.340	4.506	4.312	5.036	4.598

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:57:31	271.300	274.500	789.500	792.800	110.500	16.530	9.313	0.000
2	21:57:39	291.900	305.000	867.900	872.000	125.200	17.470	21.460	0.000
3	21:57:47	274.200	289.600	823.000	826.900	115.500	15.370	20.800	0.000
x		279.100	289.700	826.800	830.600	117.100	16.460	17.190	0.000
σ		11.190	15.250	39.340	39.740	7.447	1.052	6.831	0.000
%RSD		4.010	5.266	4.758	4.785	6.361	6.395	39.730	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:57:31	2221.000	0.000	959.900	968.400	65.773%	48.400	50.350	53.860
2	21:57:39	2586.000	0.000	1104.000	1120.000	62.400%	54.050	57.100	61.650
3	21:57:47	2373.000	0.000	1017.000	1018.000	66.041%	49.890	51.940	54.600
x		2393.000	0.000	1027.000	1035.000	64.738%	50.780	53.130	56.710
σ		183.400	0.000	72.410	77.000	2.029%	2.926	3.526	4.299
%RSD		7.662	0.000	7.051	7.437	3.134	5.763	6.637	7.581

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	21:57:31	79.040	63.146%	1853.000	299.700	296.100	1775.000	1763.000	78.410%
2	21:57:39	92.670	60.336%	2148.000	347.100	336.100	2045.000	2074.000	74.670%
3	21:57:47	84.200	63.846%	1941.000	314.800	304.900	1862.000	1860.000	78.672%
x		85.300	62.443%	1981.000	320.500	312.400	1894.000	1899.000	77.251%
σ		6.882	1.858%	151.400	24.220	21.000	137.900	159.100	2.239%
%RSD		8.068	2.975	7.642	7.557	6.722	7.281	8.377	2.898

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	21:57:31	47.530	47.680	102.100	92.940	97.460	70.864%
2	21:57:39	57.290	56.710	119.100	109.700	114.600	65.003%
3	21:57:47	50.980	51.890	109.300	97.490	103.300	68.895%
x		51.930	52.090	110.200	100.000	105.100	68.254%
σ		4.947	4.521	8.530	8.671	8.692	2.983%
%RSD		9.525	8.678	7.742	8.667	8.269	4.370

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Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:02:06	100.768%	194.200	51.060	1105.000	1096.000	0.000	80810.000	98460.000
2	22:02:14	99.214%	198.400	52.050	1108.000	1114.000	0.000	81680.000	99260.000
3	22:02:22	100.140%	193.800	51.420	1074.000	1093.000	0.000	80060.000	97700.000
x		100.041%	195.500	51.510	1096.000	1101.000	0.000	80850.000	98470.000
σ		0.781%	2.527	0.503	19.120	11.460	0.000	812.100	782.000
%RSD		0.781	1.293	0.976	1.745	1.040	0.000	1.005	0.794

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:02:06	98010.000	86090.000	14140.000	0.000	76370.000	335300.000	339100.000	77.679%
2	22:02:14	98700.000	86600.000	14230.000	0.000	76620.000	338300.000	338800.000	77.389%
3	22:02:22	96910.000	84800.000	13900.000	0.000	75340.000	331900.000	334400.000	78.154%
x		97870.000	85830.000	14090.000	0.000	76110.000	335100.000	337400.000	77.741%
σ		902.200	925.500	172.100	0.000	680.400	3186.000	2668.000	0.386%
%RSD		0.922	1.078	1.221	0.000	0.894	0.951	0.791	0.497

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:02:06	2571.000	604.400	409.700	1852.000	171400.000	171900.000	503.000	558.000
2	22:02:14	2565.000	622.900	419.700	1851.000	173900.000	173800.000	511.200	578.100
3	22:02:22	2546.000	623.300	419.400	1823.000	175500.000	177000.000	515.100	573.000
x		2561.000	616.900	416.300	1842.000	173600.000	174200.000	509.700	569.700
σ		13.070	10.830	5.706	16.710	2063.000	2560.000	6.166	10.470
%RSD		0.510	1.756	1.371	0.907	1.188	1.469	1.210	1.837

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:02:06	287.300	294.000	795.300	827.000	114.100	17.270	8.867	0.000
2	22:02:14	286.700	300.900	815.400	824.600	115.900	18.310	15.620	0.000
3	22:02:22	291.900	301.400	827.200	814.800	115.700	17.970	32.500	0.000
x		288.600	298.800	812.600	822.100	115.200	17.850	19.000	0.000
σ		2.856	4.167	16.100	6.468	0.991	0.532	12.170	0.000
%RSD		0.990	1.395	1.981	0.787	0.860	2.981	64.070	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:02:06	2388.000	0.000	1067.000	1078.000	63.458%	52.180	51.210	58.570
2	22:02:14	2420.000	0.000	1069.000	1080.000	64.249%	52.320	51.560	57.150
3	22:02:22	2443.000	0.000	1097.000	1084.000	64.501%	51.330	51.100	58.390
x		2417.000	0.000	1078.000	1081.000	64.070%	51.940	51.290	58.040
σ		28.080	0.000	16.830	3.400	0.545%	0.533	0.238	0.777
%RSD		1.162	0.000	1.562	0.315	0.850	1.027	0.463	1.339

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:02:06	87.120	61.548%	2118.000	502.100	484.600	1970.000	1950.000	71.626%
2	22:02:14	86.920	63.155%	2118.000	506.400	491.200	1938.000	1965.000	74.552%
3	22:02:22	86.810	63.653%	2102.000	503.600	491.800	1973.000	1979.000	73.376%
x		86.950	62.785%	2113.000	504.100	489.200	1960.000	1964.000	73.185%
σ		0.160	1.100%	9.515	2.206	4.013	19.130	14.480	1.472%
%RSD		0.184	1.753	0.450	0.438	0.820	0.976	0.737	2.012

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	22:02:06	54.600	54.430	101.800	94.420	98.410	58.468%
2	22:02:14	55.000	54.190	101.700	93.830	97.200	58.059%
3	22:02:22	54.270	54.040	97.860	91.350	96.630	56.681%
x		54.620	54.220	100.500	93.200	97.410	57.736%
σ		0.368	0.197	2.267	1.628	0.909	0.936%
%RSD		0.674	0.363	2.257	1.747	0.934	1.622

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Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:06:44	101.803%	188.900	4.971	193.000	194.300	0.000	29130.000	46560.000
2	22:06:53	102.991%	181.200	5.009	190.400	187.100	0.000	28450.000	45240.000
3	22:07:01	104.161%	178.100	4.497	179.800	181.000	0.000	28150.000	44870.000
x		102.985%	182.700	4.826	187.700	187.500	0.000	28580.000	45560.000
σ		1.179%	5.559	0.285	6.957	6.669	0.000	505.800	888.200
%RSD		1.145	3.042	5.904	3.706	3.557	0.000	1.770	1.950

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:06:44	46170.000	86020.000	8431.000	0.000	24910.000	291400.000	291600.000	75.886%
2	22:06:53	44940.000	83310.000	8076.000	0.000	23930.000	279600.000	282900.000	76.872%
3	22:07:01	44710.000	83230.000	7980.000	0.000	23950.000	279400.000	281000.000	76.211%
x		45270.000	84190.000	8163.000	0.000	24260.000	283500.000	285200.000	76.323%
σ		787.600	1587.000	237.400	0.000	563.500	6887.000	5653.000	0.503%
%RSD		1.740	1.885	2.908	0.000	2.323	2.430	1.982	0.658

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:06:44	1978.000	197.800	250.100	1426.000	164100.000	164200.000	48.890	124.900
2	22:06:53	1912.000	203.100	249.600	1382.000	164300.000	164200.000	48.760	116.900
3	22:07:01	1897.000	207.200	257.200	1374.000	169100.000	169900.000	50.280	128.200
x		1929.000	202.700	252.300	1394.000	165800.000	166100.000	49.310	123.300
σ		43.040	4.750	4.270	27.900	2826.000	3300.000	0.840	5.826
%RSD		2.231	2.343	1.692	2.001	1.704	1.987	1.703	4.724

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:06:44	54.960	56.380	345.400	353.300	67.200	4.307	16.370	0.000
2	22:06:53	53.810	58.410	345.900	342.400	66.950	5.800	8.672	0.000
3	22:07:01	56.740	56.580	347.800	351.200	70.530	6.729	10.100	0.000
x		55.170	57.120	346.400	349.000	68.230	5.612	11.710	0.000
σ		1.475	1.121	1.295	5.820	2.001	1.222	4.096	0.000
%RSD		2.673	1.963	0.374	1.668	2.933	21.770	34.970	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:06:44	1491.000	0.000	25.640	24.680	64.104%	0.316	0.213	4.415
2	22:06:53	1505.000	0.000	25.930	23.990	65.945%	0.403	0.244	3.919
3	22:07:01	1520.000	0.000	24.520	24.870	65.988%	0.327	0.173	4.497
x		1505.000	0.000	25.360	24.510	65.346%	0.349	0.210	4.277
σ		14.810	0.000	0.745	0.462	1.076%	0.048	0.036	0.313
%RSD		0.984	0.000	2.936	1.886	1.646	13.640	17.180	7.311

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:06:44	1.837	61.990%	46.470	1.894	2.138	139.400	146.800	73.061%
2	22:06:53	1.948	63.628%	42.920	2.129	1.816	138.600	145.000	75.151%
3	22:07:01	2.280	63.924%	45.880	1.989	1.961	150.200	145.700	75.988%
x		2.022	63.181%	45.090	2.004	1.972	142.800	145.800	74.733%
σ		0.231	1.042%	1.902	0.118	0.161	6.455	0.895	1.507%
%RSD		11.410	1.649	4.217	5.909	8.184	4.522	0.614	2.017

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	22:06:44	1.223	1.275	77.400	67.380	72.090	61.531%
2	22:06:53	1.159	1.322	75.310	67.030	71.010	63.686%
3	22:07:01	1.404	1.272	74.470	66.560	70.740	65.603%
x		1.262	1.290	75.730	66.990	71.280	63.607%
σ		0.127	0.028	1.505	0.412	0.714	2.037%
%RSD		10.080	2.191	1.988	0.615	1.002	3.203

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User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:11:22	106.818%	41.100	1.263	49.000	48.900	0.000	27270.000	10140.000
2	22:11:30	110.743%	39.110	0.961	45.980	46.540	0.000	26220.000	9757.000
3	22:11:38	111.791%	38.600	0.952	44.890	45.290	0.000	25950.000	9647.000
x		109.784%	39.600	1.059	46.620	46.910	0.000	26480.000	9848.000
σ		2.622%	1.322	0.177	2.127	1.835	0.000	700.200	257.700
%RSD		2.388	3.338	16.740	4.563	3.912	0.000	2.644	2.617

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:11:22	10120.000	20600.000	5580.000	0.000	5699.000	7348.000	6910.000	81.460%
2	22:11:30	9756.000	19820.000	5336.000	0.000	5494.000	7046.000	6650.000	84.036%
3	22:11:38	9673.000	19640.000	5258.000	0.000	5467.000	6987.000	6643.000	84.449%
x		9851.000	20020.000	5391.000	0.000	5553.000	7127.000	6735.000	83.315%
σ		239.900	507.400	168.200	0.000	126.800	193.800	152.300	1.620%
%RSD		2.435	2.535	3.120	0.000	2.284	2.719	2.261	1.944

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:11:22	1685.000	90.540	82.490	279.700	42230.000	42570.000	9.078	31.760
2	22:11:30	1618.000	92.150	81.340	269.200	42950.000	42580.000	9.422	29.210
3	22:11:38	1611.000	92.760	82.660	266.700	42990.000	42130.000	9.112	31.320
x		1638.000	91.820	82.160	271.900	42720.000	42420.000	9.204	30.760
σ		40.900	1.147	0.717	6.884	427.600	259.200	0.190	1.368
%RSD		2.497	1.249	0.873	2.532	1.001	0.611	2.059	4.445

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:11:22	56.410	54.990	165.500	161.500	22.310	3.167	2.548	0.000
2	22:11:30	55.410	57.040	167.200	166.500	22.780	2.860	7.598	0.000
3	22:11:38	54.860	57.010	170.400	164.000	21.290	2.415	4.217	0.000
x		55.560	56.350	167.700	164.000	22.130	2.814	4.788	0.000
σ		0.785	1.177	2.513	2.518	0.760	0.378	2.573	0.000
%RSD		1.412	2.088	1.498	1.535	3.437	13.430	53.740	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:11:22	51.910	0.000	8.412	8.773	75.604%	0.555	0.668	1.486
2	22:11:30	50.430	0.000	8.334	8.699	78.354%	0.610	0.622	1.331
3	22:11:38	51.750	0.000	8.963	8.395	80.727%	0.625	0.623	1.041
x		51.360	0.000	8.570	8.622	78.229%	0.597	0.638	1.286
σ		0.809	0.000	0.343	0.201	2.564%	0.037	0.027	0.226
%RSD		1.575	0.000	4.005	2.326	3.277	6.203	4.160	17.560

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:11:22	1.771	70.751%	54.500	1.199	1.023	71.310	73.870	78.345%
2	22:11:30	1.515	73.897%	54.870	1.316	1.114	75.100	74.630	81.613%
3	22:11:38	1.507	76.542%	55.510	1.327	1.037	75.430	73.770	83.283%
x		1.598	73.730%	54.960	1.281	1.058	73.950	74.090	81.080%
σ		0.150	2.899%	0.514	0.071	0.049	2.289	0.468	2.512%
%RSD		9.390	3.932	0.935	5.534	4.624	3.095	0.632	3.098

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	22:11:22	0.348	0.352	109.000	101.600	104.400	71.851%
2	22:11:30	0.374	0.419	107.900	100.300	103.700	75.433%
3	22:11:38	0.468	0.365	107.100	98.390	103.000	76.818%
x		0.397	0.379	108.000	100.100	103.700	74.701%
σ		0.063	0.035	0.920	1.594	0.741	2.563%
%RSD		15.890	9.360	0.852	1.592	0.714	3.431

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User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:15:59	105.179%	52.650	1.359	63.200	64.680	0.000	28910.000	61400.000
2	22:16:07	105.873%	52.190	1.261	62.550	62.800	0.000	27900.000	59540.000
3	22:16:15	106.093%	51.820	1.204	60.850	62.490	0.000	27820.000	59580.000
x		105.715%	52.220	1.275	62.200	63.320	0.000	28210.000	60170.000
σ		0.477%	0.416	0.078	1.215	1.182	0.000	606.800	1065.000
%RSD		0.451	0.796	6.150	1.953	1.866	0.000	2.151	1.770

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:15:59	61330.000	30960.000	6544.000	0.000	6668.000	128000.000	128500.000	79.845%
2	22:16:07	59320.000	30000.000	6356.000	0.000	6464.000	124200.000	124800.000	81.350%
3	22:16:15	59520.000	30050.000	6209.000	0.000	6422.000	123300.000	124000.000	80.343%
x		60050.000	30340.000	6370.000	0.000	6518.000	125200.000	125800.000	80.513%
σ		1108.000	542.700	167.800	0.000	131.700	2484.000	2425.000	0.767%
%RSD		1.844	1.789	2.635	0.000	2.021	1.985	1.928	0.953

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:15:59	1947.000	125.700	102.700	597.000	53610.000	53760.000	14.750	50.770
2	22:16:07	1894.000	126.800	102.300	581.600	53910.000	53650.000	14.550	52.600
3	22:16:15	1872.000	129.900	104.000	579.000	55110.000	55000.000	14.900	50.870
x		1904.000	127.500	103.000	585.900	54210.000	54140.000	14.730	51.410
σ		38.380	2.192	0.888	9.760	793.800	746.900	0.176	1.031
%RSD		2.015	1.720	0.862	1.666	1.464	1.380	1.192	2.006

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:15:59	96.200	103.600	336.300	348.400	23.800	2.761	4.598	0.000
2	22:16:07	95.910	101.400	336.100	334.100	23.220	2.281	7.893	0.000
3	22:16:15	98.220	95.790	350.700	352.600	22.550	2.270	8.900	0.000
x		96.770	100.200	341.000	345.000	23.190	2.438	7.131	0.000
σ		1.260	4.013	8.349	9.718	0.627	0.281	2.250	0.000
%RSD		1.302	4.003	2.448	2.817	2.704	11.510	31.560	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:15:59	284.100	0.000	14.570	14.800	67.544%	1.912	1.940	1.846
2	22:16:07	292.400	0.000	15.570	15.220	68.554%	1.954	1.962	2.367
3	22:16:15	289.700	0.000	14.030	14.060	69.637%	1.973	2.028	2.051
x		288.700	0.000	14.720	14.690	68.578%	1.946	1.977	2.088
σ		4.270	0.000	0.781	0.588	1.047%	0.031	0.046	0.263
%RSD		1.479	0.000	5.305	4.004	1.526	1.617	2.310	12.570

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:15:59	2.113	64.562%	67.670	1.183	1.088	124.600	118.000	73.655%
2	22:16:07	2.060	66.717%	67.760	1.158	1.083	123.900	120.300	75.584%
3	22:16:15	2.230	66.826%	67.570	0.943	1.004	123.100	122.300	76.692%
x		2.134	66.035%	67.670	1.095	1.058	123.900	120.200	75.310%
σ		0.087	1.277%	0.091	0.132	0.047	0.761	2.145	1.537%
%RSD		4.074	1.934	0.134	12.030	4.452	0.614	1.785	2.041

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	22:15:59	0.557	0.525	200.000	182.600	190.200	69.225%
2	22:16:07	0.509	0.581	199.900	179.300	188.900	71.510%
3	22:16:15	0.546	0.504	201.500	185.200	191.200	72.370%
x		0.537	0.537	200.400	182.400	190.100	71.035%
σ		0.025	0.040	0.938	2.966	1.163	1.626%
%RSD		4.619	7.391	0.468	1.626	0.612	2.288

180-82379-D-3-A 10/9/2018 10:21:31 PM

User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:20:38	107.263%	21.000	0.491	34.050	33.000	0.000	32080.000	7141.000
2	22:20:46	109.420%	20.560	0.620	29.650	32.130	0.000	31230.000	6936.000
3	22:20:54	107.592%	19.880	0.667	32.310	32.820	0.000	31150.000	6938.000
x		108.092%	20.480	0.593	32.000	32.650	0.000	31490.000	7005.000
σ		1.162%	0.567	0.091	2.217	0.456	0.000	514.100	117.800
%RSD		1.075	2.770	15.400	6.929	1.395	0.000	1.633	1.681

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:20:38	7115.000	11650.000	5237.000	0.000	4024.000	19390.000	18320.000	77.970%
2	22:20:46	6930.000	11360.000	5046.000	0.000	3939.000	18800.000	17790.000	79.031%
3	22:20:54	6876.000	11360.000	5060.000	0.000	3913.000	18500.000	17700.000	79.139%
x		6974.000	11450.000	5115.000	0.000	3959.000	18900.000	17940.000	78.713%
σ		125.100	170.800	106.600	0.000	58.180	456.500	332.000	0.646%
%RSD		1.794	1.491	2.084	0.000	1.470	2.416	1.851	0.821

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:20:38	1530.000	50.190	54.080	233.400	23870.000	23950.000	8.754	22.050
2	22:20:46	1494.000	49.590	55.270	224.800	24250.000	24010.000	8.557	21.820
3	22:20:54	1469.000	46.420	50.320	224.100	22320.000	22160.000	8.245	18.770
x		1497.000	48.730	53.220	227.400	23480.000	23370.000	8.519	20.880
σ		30.530	2.030	2.583	5.207	1025.000	1050.000	0.257	1.830
%RSD		2.039	4.165	4.853	2.290	4.363	4.494	3.013	8.765

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:20:38	23.450	24.800	67.760	71.330	17.140	2.530	-4.339	0.000
2	22:20:46	23.530	25.030	74.120	76.540	17.450	2.257	6.837	0.000
3	22:20:54	21.010	21.190	65.300	70.540	15.640	1.718	3.754	0.000
x		22.660	23.670	69.060	72.800	16.740	2.168	2.084	0.000
σ		1.429	2.154	4.552	3.261	0.970	0.413	5.772	0.000
%RSD		6.304	9.101	6.591	4.480	5.794	19.060	277.000	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:20:38	124.400	0.000	11.240	11.000	69.084%	0.163	0.213	0.520
2	22:20:46	126.500	0.000	11.570	10.410	71.034%	0.196	0.157	0.551
3	22:20:54	110.800	0.000	8.965	9.456	78.455%	0.096	0.189	0.802
x		120.600	0.000	10.590	10.290	72.857%	0.152	0.186	0.625
σ		8.513	0.000	1.419	0.779	4.945%	0.051	0.028	0.155
%RSD		7.059	0.000	13.400	7.568	6.787	33.580	15.070	24.790

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:20:38	1.192	65.133%	43.470	0.730	1.022	58.110	57.480	72.066%
2	22:20:46	0.951	68.601%	42.710	0.977	1.020	57.640	59.310	72.705%
3	22:20:54	0.915	75.840%	36.530	0.794	0.948	47.410	47.790	79.250%
x		1.019	69.858%	40.900	0.834	0.997	54.390	54.860	74.674%
σ		0.151	5.463%	3.809	0.128	0.042	6.046	6.189	3.976%
%RSD		14.800	7.820	9.313	15.310	4.244	11.120	11.280	5.324

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	22:20:38	0.493	0.448	34.820	32.830	34.080	63.954%
2	22:20:46	0.511	0.440	35.770	32.590	34.280	63.963%
3	22:20:54	0.439	0.355	30.460	28.370	29.220	68.752%
x		0.481	0.414	33.680	31.270	32.530	65.556%
σ		0.038	0.051	2.830	2.509	2.867	2.767%
%RSD		7.814	12.350	8.402	8.026	8.813	4.221

180-82446-C-1-B 10/9/2018 10:26:10 PM

User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:25:17	109.560%	58.320	1.702	68.050	67.070	0.000	29800.000	13740.000
2	22:25:25	109.536%	57.840	1.664	67.430	68.640	0.000	29260.000	13470.000
3	22:25:33	108.000%	59.930	1.637	65.050	67.060	0.000	28980.000	13440.000
x		109.032%	58.700	1.668	66.840	67.590	0.000	29340.000	13550.000
σ		0.894%	1.094	0.032	1.582	0.907	0.000	416.700	163.800
%RSD		0.820	1.864	1.944	2.367	1.341	0.000	1.420	1.209

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:25:17	13710.000	31030.000	6996.000	0.000	7635.000	86480.000	87010.000	77.450%
2	22:25:25	13420.000	30470.000	6871.000	0.000	7535.000	84950.000	86030.000	78.005%
3	22:25:33	13340.000	30470.000	6914.000	0.000	7495.000	85030.000	85230.000	77.918%
x		13490.000	30660.000	6927.000	0.000	7555.000	85490.000	86090.000	77.791%
σ		192.700	324.700	63.690	0.000	72.250	860.800	893.900	0.298%
%RSD		1.429	1.059	0.919	0.000	0.956	1.007	1.038	0.384

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:25:17	2453.000	112.300	106.700	581.000	55790.000	55510.000	12.820	55.110
2	22:25:25	2414.000	117.800	107.200	575.100	57020.000	57070.000	13.490	55.400
3	22:25:33	2435.000	119.100	110.000	572.500	58290.000	56850.000	14.620	54.420
x		2434.000	116.400	107.900	576.200	57040.000	56480.000	13.640	54.970
σ		19.570	3.594	1.769	4.371	1252.000	848.000	0.912	0.504
%RSD		0.804	3.088	1.639	0.759	2.195	1.502	6.683	0.918

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:25:17	110.000	110.600	1461.000	1480.000	23.950	2.109	1.492	0.000
2	22:25:25	111.800	112.000	1502.000	1497.000	25.380	2.280	8.535	0.000
3	22:25:33	113.100	117.800	1518.000	1535.000	25.590	2.034	8.780	0.000
x		111.600	113.400	1494.000	1504.000	24.970	2.141	6.269	0.000
σ		1.527	3.832	29.380	28.260	0.893	0.126	4.139	0.000
%RSD		1.368	3.378	1.967	1.879	3.575	5.891	66.020	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:25:17	524.700	0.000	16.880	15.720	68.441%	0.679	0.786	1.073
2	22:25:25	541.000	0.000	14.890	16.280	70.546%	0.854	0.803	0.948
3	22:25:33	542.200	0.000	15.380	15.400	72.240%	0.828	0.761	1.666
x		536.000	0.000	15.720	15.800	70.409%	0.787	0.783	1.229
σ		9.790	0.000	1.038	0.446	1.903%	0.094	0.021	0.383
%RSD		1.827	0.000	6.606	2.824	2.702	11.990	2.697	31.190

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:25:17	1.871	65.776%	61.440	1.453	1.283	139.000	142.900	74.047%
2	22:25:25	2.040	66.800%	63.880	1.105	1.244	142.500	143.400	76.370%
3	22:25:33	2.022	69.563%	59.980	1.337	1.283	139.400	141.900	78.068%
x		1.978	67.379%	61.770	1.298	1.270	140.300	142.800	76.162%
σ		0.093	1.959%	1.967	0.177	0.022	1.921	0.777	2.019%
%RSD		4.709	2.908	3.184	13.630	1.764	1.370	0.544	2.651

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	22:25:17	0.495	0.555	234.400	214.300	223.700	67.632%
2	22:25:25	0.549	0.521	234.300	215.800	223.600	71.241%
3	22:25:33	0.497	0.516	229.700	213.000	220.400	74.304%
x		0.514	0.531	232.800	214.400	222.600	71.059%
σ		0.031	0.022	2.689	1.375	1.874	3.340%
%RSD		6.023	4.063	1.155	0.642	0.842	4.700

CCV 2907280 10/9/2018 10:34:27 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:33:34	96.169%	98.530	101.300	95.610	94.900	0.000	49570.000	49670.000
2	22:33:42	96.108%	99.180	100.500	91.530	94.870	0.000	49120.000	49320.000
3	22:33:50	96.534%	99.870	99.520	98.770	92.820	0.000	49510.000	49760.000
x		96.270%	99.194%	100.445%	95.304%	94.198%	0.000	98.800%	99.166%
σ		0.231%	n/a	n/a	n/a	n/a	0.000	n/a	n/a
%RSD		0.240	0.676	0.891	3.808	1.266	0.000	0.492	0.470

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:33:34	49580.000	536.100	5103.000	0.000	49990.000	49320.000	46840.000	98.438%
2	22:33:42	49330.000	533.600	5089.000	0.000	49810.000	49180.000	49760.000	99.467%
3	22:33:50	49750.000	539.300	5130.000	0.000	50140.000	50100.000	50080.000	98.984%
x		99.108%	107.266%	102.143%	0.000	99.961%	99.060%	97.785%	98.963%
σ		n/a	n/a	n/a	0.000	n/a	n/a	n/a	0.515%
%RSD		0.429	0.539	0.416	0.000	0.331	1.003	3.652	0.520

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:33:34	103.400	92.960	93.830	502.600	23960.000	23890.000	99.390	101.400
2	22:33:42	99.210	94.350	93.140	501.500	23980.000	23510.000	97.510	99.130
3	22:33:50	103.800	95.220	96.040	502.000	24570.000	24080.000	99.850	100.700
x		102.142%	94.175%	94.338%	100.408%	96.672%	95.315%	98.918%	100.425%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		2.495	1.213	1.606	0.108	1.436	1.211	1.258	1.177

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:33:34	99.550	102.200	99.240	96.270	96.110	98.460	99.050	0.000
2	22:33:42	100.000	101.600	96.500	98.040	99.150	97.540	91.990	0.000
3	22:33:50	101.900	100.400	96.750	102.200	97.330	102.300	95.050	0.000
x		100.497%	101.383%	97.496%	98.841%	97.528%	99.434%	95.361%	0.000
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.000
%RSD		1.261	0.912	1.553	3.093	1.567	2.541	3.713	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:33:34	97.100	87.930%	106.400	106.100	87.826%	98.240	99.600	102.900
2	22:33:42	95.720	90.811%	104.100	102.600	90.410%	95.130	97.110	100.800
3	22:33:50	95.360	94.018%	103.500	102.300	92.023%	95.910	98.080	100.800
x		96.059%	90.920%	104.696%	103.697%	90.086%	96.424%	98.265%	101.531%
σ		n/a	3.046%	n/a	n/a	2.117%	n/a	n/a	n/a
%RSD		0.955	3.350	1.469	2.052	2.350	1.679	1.278	1.189

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:33:34	106.100	85.377%	103.700	102.200	102.800	99.910	102.800	90.868%
2	22:33:42	103.200	87.883%	98.940	101.500	98.660	100.800	98.730	93.045%
3	22:33:50	104.900	90.822%	99.100	102.100	98.030	100.200	96.180	94.980%
x		104.732%	88.027%	100.581%	101.947%	99.837%	100.321%	99.220%	92.964%
σ		n/a	2.725%	n/a	n/a	n/a	n/a	n/a	2.057%
%RSD		1.386	3.096	2.687	0.350	2.609	0.469	3.344	2.213

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	22:33:34	102.500	103.300	102.300	101.100	102.200	91.162%
2	22:33:42	100.800	100.300	100.800	101.300	101.400	94.260%
3	22:33:50	99.680	99.370	101.100	99.850	100.300	97.067%
x		100.992%	100.996%	101.424%	100.751%	101.300%	94.163%
σ		n/a	n/a	n/a	n/a	n/a	2.953%
%RSD		1.393	2.039	0.794	0.784	0.967	3.136

CCB3 10/9/2018 10:39:06 PM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:38:13	99.647%	0.767	0.024	0.167	0.753	0.000	-181.900	9.770
2	22:38:21	97.271%	1.450	0.012	0.313	0.513	0.000	-184.000	9.801
3	22:38:29	98.313%	0.735	0.018	0.922	0.665	0.000	-184.100	9.609
x		98.410%	0.984	0.018	0.468	0.644	0.000	-183.300	9.726
σ		1.191%	0.404	0.006	0.400	0.122	0.000	1.265	0.103
%RSD		1.210	41.040	32.060	85.620	18.880	0.000	0.690	1.057

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:38:13	9.708	0.900	-14.220	0.000	29.290	19.330	12.310	101.184%
2	22:38:21	9.022	1.029	13.700	0.000	29.610	0.669	17.560	100.677%
3	22:38:29	9.135	1.214	1.945	0.000	27.480	22.170	12.880	100.909%
x		9.288	1.048	0.477	0.000	28.800	14.060	14.250	100.923%
σ		0.368	0.158	14.020	0.000	1.148	11.680	2.884	0.254%
%RSD		3.959	15.070	2941.000	0.000	3.987	83.090	20.240	0.251

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:38:13	-0.030	0.046	-0.043	0.337	7.878	11.850	0.010	0.314
2	22:38:21	0.048	0.018	-0.074	0.256	6.337	8.057	0.028	0.184
3	22:38:29	-0.029	0.018	-0.060	0.292	6.589	9.229	0.009	0.499
x		-0.003	0.027	-0.059	0.295	6.935	9.713	0.016	0.332
σ		0.045	0.016	0.016	0.041	0.826	1.943	0.011	0.158
%RSD		1342.000	57.460	26.400	13.870	11.910	20.010	67.980	47.640

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:38:13	-0.041	-0.132	0.260	-0.139	0.095	0.065	1.711	0.000
2	22:38:21	0.023	-0.034	0.092	-0.069	0.076	0.063	-0.466	0.000
3	22:38:29	-0.032	0.062	0.129	-0.145	0.019	0.061	0.569	0.000
x		-0.017	-0.035	0.160	-0.118	0.063	0.063	0.605	0.000
σ		0.035	0.097	0.088	0.042	0.040	0.002	1.089	0.000
%RSD		208.100	279.600	55.010	35.870	62.510	3.306	180.200	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:38:13	0.068	91.137%	0.402	0.463	94.476%	-0.007	-0.004	-0.048
2	22:38:21	0.047	92.313%	0.231	0.300	95.473%	0.000	-0.020	0.171
3	22:38:29	0.065	94.162%	0.259	0.280	95.158%	-0.022	0.002	-0.030
x		0.060	92.538%	0.297	0.348	95.036%	-0.010	-0.007	0.031
σ		0.011	1.525%	0.091	0.101	0.510%	0.011	0.012	0.121
%RSD		18.630	1.648	30.770	28.970	0.536	118.000	158.600	391.300

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:38:13	0.006	91.160%	0.020	0.290	0.237	-0.039	0.002	95.091%
2	22:38:21	0.024	92.539%	-0.049	0.222	0.299	0.023	0.001	96.362%
3	22:38:29	0.006	93.668%	0.013	0.220	0.253	-0.039	0.035	95.234%
x		0.012	92.456%	-0.006	0.244	0.263	-0.018	0.013	95.562%
σ		0.010	1.256%	0.038	0.040	0.032	0.036	0.020	0.696%
%RSD		84.380	1.359	682.300	16.360	12.220	196.300	151.100	0.729

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	22:38:13	0.031	0.020	0.059	-0.000	0.057	98.246%
2	22:38:21	0.035	0.012	0.056	0.064	0.050	97.963%
3	22:38:29	0.015	0.023	0.027	0.009	0.040	98.441%
x		0.027	0.019	0.047	0.024	0.049	98.217%
σ		0.010	0.005	0.018	0.035	0.008	0.240%
%RSD		38.520	29.370	37.590	145.400	16.710	0.245

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User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:42:54	109.755%	235.600	2.636	99.980	102.800	0.000	39260.000	25240.000
2	22:43:02	112.450%	227.900	2.827	98.420	98.330	0.000	38400.000	24640.000
3	22:43:10	113.833%	225.600	2.681	95.620	97.360	0.000	38180.000	24430.000
x		112.013%	229.700	2.715	98.010	99.490	0.000	38610.000	24770.000
σ		2.074%	5.257	0.100	2.207	2.876	0.000	573.800	420.800
%RSD		1.851	2.288	3.666	2.252	2.891	0.000	1.486	1.699

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:42:54	25130.000	75140.000	7275.000	0.000	10110.000	114700.000	115000.000	81.616%
2	22:43:02	24490.000	73510.000	7011.000	0.000	9822.000	110200.000	112600.000	83.169%
3	22:43:10	24310.000	72990.000	6961.000	0.000	9793.000	110700.000	111700.000	84.216%
x		24640.000	73880.000	7082.000	0.000	9909.000	111900.000	113100.000	83.000%
σ		428.000	1122.000	168.500	0.000	175.300	2458.000	1698.000	1.308%
%RSD		1.737	1.519	2.380	0.000	1.770	2.197	1.502	1.576

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:42:54	4277.000	207.300	194.300	1019.000	132900.000	132000.000	26.990	83.040
2	22:43:02	4147.000	213.600	196.600	989.000	134300.000	133000.000	27.240	82.680
3	22:43:10	4099.000	217.400	200.400	991.100	135800.000	135600.000	28.980	85.470
x		4175.000	212.800	197.100	999.600	134300.000	133500.000	27.740	83.730
σ		92.110	5.093	3.055	16.630	1441.000	1881.000	1.081	1.519
%RSD		2.206	2.393	1.550	1.663	1.072	1.409	3.898	1.814

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:42:54	108.600	113.200	251.700	257.400	42.450	6.715	7.229	0.000
2	22:43:02	106.000	107.800	259.900	259.600	40.980	4.791	5.440	0.000
3	22:43:10	108.200	110.900	261.600	256.600	42.350	5.098	13.970	0.000
x		107.600	110.600	257.700	257.800	41.920	5.535	8.880	0.000
σ		1.366	2.705	5.291	1.524	0.822	1.033	4.499	0.000
%RSD		1.270	2.445	2.053	0.591	1.961	18.670	50.670	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:42:54	454.800	0.000	20.740	19.500	74.176%	1.212	1.230	1.643
2	22:43:02	460.500	0.000	19.310	19.660	74.830%	1.095	1.273	1.969
3	22:43:10	459.500	0.000	19.520	19.900	76.629%	1.146	1.088	1.858
x		458.200	0.000	19.860	19.690	75.212%	1.151	1.197	1.824
σ		3.016	0.000	0.774	0.199	1.270%	0.059	0.097	0.166
%RSD		0.658	0.000	3.896	1.009	1.689	5.090	8.124	9.092

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:42:54	1.680	71.759%	55.690	1.846	1.895	104.200	101.600	78.054%
2	22:43:02	1.516	71.756%	56.600	1.854	1.693	100.500	107.300	79.589%
3	22:43:10	1.630	74.493%	54.950	1.969	1.473	104.900	100.400	80.823%
x		1.609	72.670%	55.750	1.890	1.687	103.200	103.100	79.489%
σ		0.084	1.579%	0.825	0.069	0.211	2.397	3.647	1.387%
%RSD		5.248	2.173	1.480	3.629	12.510	2.323	3.538	1.746

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	22:42:54	0.920	0.844	132.600	120.700	127.400	65.732%
2	22:43:02	1.100	0.989	134.600	121.200	127.600	67.692%
3	22:43:10	0.937	0.923	131.600	119.800	126.500	70.424%
x		0.986	0.919	133.000	120.600	127.100	67.950%
σ		0.100	0.073	1.511	0.720	0.564	2.357%
%RSD		10.120	7.916	1.136	0.597	0.443	3.468

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Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:47:32	110.292%	44.490	1.653	59.760	60.500	0.000	28120.000	17190.000
2	22:47:40	110.993%	44.470	1.837	57.430	57.060	0.000	27160.000	16310.000
3	22:47:48	109.688%	45.050	1.655	57.860	58.650	0.000	27090.000	16580.000
x		110.324%	44.670	1.715	58.350	58.740	0.000	27460.000	16690.000
σ		0.653%	0.333	0.106	1.237	1.725	0.000	574.000	454.900
%RSD		0.592	0.745	6.163	2.120	2.937	0.000	2.090	2.725

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:47:32	17070.000	27000.000	5247.000	0.000	6314.000	107800.000	109200.000	87.377%
2	22:47:40	16580.000	26210.000	5067.000	0.000	6078.000	105100.000	105900.000	88.314%
3	22:47:48	16480.000	26140.000	5020.000	0.000	6125.000	105400.000	105900.000	87.577%
x		16710.000	26450.000	5111.000	0.000	6172.000	106100.000	107000.000	87.756%
σ		319.000	478.100	119.700	0.000	125.000	1490.000	1897.000	0.494%
%RSD		1.909	1.807	2.341	0.000	2.025	1.405	1.773	0.562

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:47:32	1687.000	93.980	106.300	547.500	154600.000	153700.000	15.740	48.490
2	22:47:40	1631.000	94.250	106.900	527.300	157200.000	156700.000	15.680	51.700
3	22:47:48	1623.000	95.930	112.100	529.400	159200.000	160100.000	16.150	51.080
x		1647.000	94.720	108.400	534.700	157000.000	156800.000	15.860	50.420
σ		34.710	1.055	3.200	11.090	2306.000	3187.000	0.254	1.703
%RSD		2.108	1.114	2.951	2.074	1.469	2.032	1.605	3.378

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:47:32	99.200	99.410	295.700	297.700	25.910	3.496	9.501	0.000
2	22:47:40	100.800	101.300	309.500	306.300	29.110	2.837	8.535	0.000
3	22:47:48	101.500	103.000	304.500	313.500	27.550	2.629	0.046	0.000
x		100.500	101.200	303.200	305.800	27.520	2.987	6.027	0.000
σ		1.184	1.792	6.958	7.897	1.600	0.453	5.202	0.000
%RSD		1.178	1.771	2.295	2.582	5.813	15.150	86.320	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:47:32	420.500	0.000	12.930	13.560	74.805%	1.308	1.439	1.257
2	22:47:40	429.000	0.000	13.650	13.290	76.751%	1.369	1.390	1.951
3	22:47:48	424.100	0.000	12.800	13.390	77.736%	1.305	1.454	1.104
x		424.500	0.000	13.130	13.410	76.431%	1.327	1.427	1.437
σ		4.247	0.000	0.458	0.133	1.491%	0.036	0.034	0.451
%RSD		1.000	0.000	3.490	0.989	1.951	2.684	2.359	31.380

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:47:32	2.087	72.684%	64.390	1.111	1.134	92.120	94.450	79.926%
2	22:47:40	1.770	74.286%	62.600	1.398	1.214	97.910	95.080	82.616%
3	22:47:48	1.799	74.421%	63.970	1.238	1.238	98.580	99.390	83.189%
x		1.885	73.797%	63.650	1.249	1.195	96.210	96.310	81.911%
σ		0.175	0.967%	0.935	0.144	0.055	3.552	2.689	1.743%
%RSD		9.287	1.310	1.469	11.520	4.565	3.692	2.792	2.127

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	22:47:32	0.560	0.539	308.200	285.700	293.900	78.030%
2	22:47:40	0.465	0.528	311.000	283.100	295.400	80.463%
3	22:47:48	0.571	0.470	309.000	282.000	293.600	81.642%
x		0.532	0.512	309.400	283.600	294.300	80.045%
σ		0.058	0.037	1.457	1.926	0.924	1.842%
%RSD		10.910	7.263	0.471	0.679	0.314	2.302

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User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:52:13	118.443%	174.900	4.176	190.200	191.800	0.000	44720.000	41470.000
2	22:52:21	120.138%	170.400	4.233	185.600	187.600	0.000	44100.000	40730.000
3	22:52:28	118.266%	171.000	4.189	190.200	189.500	0.000	43630.000	40800.000
x		118.949%	172.100	4.199	188.700	189.600	0.000	44150.000	41000.000
σ		1.034%	2.451	0.030	2.655	2.101	0.000	546.600	406.000
%RSD		0.869	1.424	0.712	1.407	1.108	0.000	1.238	0.990

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:52:13	41260.000	85780.000	9212.000	0.000	23040.000	29150.000	27420.000	94.657%
2	22:52:21	40530.000	84240.000	9052.000	0.000	22860.000	28200.000	26930.000	95.549%
3	22:52:28	40550.000	84350.000	9057.000	0.000	22610.000	28400.000	26880.000	96.757%
x		40780.000	84790.000	9107.000	0.000	22840.000	28580.000	27070.000	95.654%
σ		415.600	855.700	90.750	0.000	217.100	501.300	302.200	1.054%
%RSD		1.019	1.009	0.996	0.000	0.951	1.754	1.116	1.102

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:52:13	4898.000	264.900	241.000	1638.000	177100.000	177100.000	42.410	127.500
2	22:52:21	4859.000	271.900	245.800	1633.000	179500.000	180000.000	43.290	131.900
3	22:52:28	4780.000	268.500	248.600	1610.000	179900.000	178800.000	43.010	125.900
x		4845.000	268.400	245.100	1627.000	178800.000	178600.000	42.900	128.400
σ		60.200	3.504	3.836	14.560	1548.000	1471.000	0.451	3.149
%RSD		1.242	1.305	1.565	0.895	0.866	0.823	1.051	2.451

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:52:13	96.660	99.620	349.700	354.200	58.490	10.120	21.470	0.000
2	22:52:21	97.000	101.400	364.400	355.100	59.460	7.851	23.660	0.000
3	22:52:28	94.000	101.700	351.400	361.600	62.230	9.505	13.080	0.000
x		95.890	100.900	355.200	357.000	60.060	9.160	19.400	0.000
σ		1.642	1.113	8.061	4.032	1.943	1.174	5.588	0.000
%RSD		1.712	1.103	2.270	1.130	3.235	12.820	28.800	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:52:13	189.700	0.000	36.070	37.430	80.126%	0.558	0.441	4.889
2	22:52:21	191.200	0.000	37.480	38.190	80.301%	0.493	0.587	3.639
3	22:52:28	189.100	0.000	37.840	37.230	82.350%	0.622	0.574	3.573
x		190.000	0.000	37.130	37.610	80.926%	0.558	0.534	4.033
σ		1.118	0.000	0.939	0.506	1.237%	0.064	0.081	0.741
%RSD		0.588	0.000	2.529	1.344	1.528	11.550	15.170	18.380

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:52:13	2.944	76.165%	50.110	0.879	0.771	193.900	191.900	87.762%
2	22:52:21	3.230	76.999%	51.260	0.986	0.709	190.200	192.100	89.427%
3	22:52:28	3.362	79.221%	50.230	0.918	0.728	191.600	192.000	90.410%
x		3.179	77.462%	50.530	0.928	0.736	191.900	192.000	89.200%
σ		0.214	1.580%	0.634	0.054	0.032	1.892	0.092	1.338%
%RSD		6.723	2.040	1.254	5.859	4.286	0.986	0.048	1.501

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	22:52:13	1.986	2.079	106.300	96.900	101.600	80.086%
2	22:52:21	2.015	2.223	107.500	95.770	101.300	81.860%
3	22:52:28	2.057	2.078	104.600	96.270	101.100	83.255%
x		2.020	2.127	106.200	96.310	101.400	81.734%
σ		0.036	0.083	1.461	0.563	0.269	1.588%
%RSD		1.775	3.914	1.376	0.585	0.265	1.943

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User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:56:49	108.628%	38.580	1.542	124.600	125.700	0.000	26670.000	94060.000
2	22:56:57	107.592%	41.200	1.531	122.900	126.300	0.000	26050.000	91760.000
3	22:57:05	109.902%	39.940	1.796	121.200	124.200	0.000	25920.000	90720.000
x		108.707%	39.910	1.623	122.900	125.400	0.000	26210.000	92180.000
σ		1.157%	1.311	0.150	1.673	1.091	0.000	397.400	1709.000
%RSD		1.064	3.284	9.230	1.361	0.870	0.000	1.516	1.853

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:56:49	93240.000	46230.000	6792.000	0.000	5985.000	291100.000	294000.000	81.136%
2	22:56:57	91370.000	45490.000	6730.000	0.000	5904.000	286200.000	287500.000	81.221%
3	22:57:05	90600.000	44950.000	6593.000	0.000	5830.000	284200.000	286800.000	81.484%
x		91740.000	45560.000	6705.000	0.000	5906.000	287200.000	289400.000	81.280%
σ		1358.000	641.000	101.800	0.000	77.400	3565.000	3984.000	0.181%
%RSD		1.480	1.407	1.518	0.000	1.310	1.242	1.376	0.223

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:56:49	1837.000	96.670	119.600	848.700	75860.000	76280.000	16.800	84.800
2	22:56:57	1803.000	98.580	120.600	839.600	75900.000	75470.000	16.770	77.710
3	22:57:05	1785.000	100.100	121.000	831.700	76200.000	76460.000	15.920	79.160
x		1809.000	98.450	120.400	840.000	75980.000	76070.000	16.500	80.560
σ		26.240	1.714	0.697	8.504	185.600	523.400	0.502	3.747
%RSD		1.451	1.741	0.579	1.012	0.244	0.688	3.043	4.651

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:56:49	253.600	256.000	665.500	680.300	26.440	2.106	3.251	0.000
2	22:56:57	247.900	251.000	669.200	689.200	26.720	1.442	8.544	0.000
3	22:57:05	246.700	250.400	674.800	697.800	25.770	2.757	0.898	0.000
x		249.400	252.500	669.800	689.100	26.310	2.102	4.231	0.000
σ		3.648	3.077	4.698	8.750	0.489	0.658	3.916	0.000
%RSD		1.463	1.219	0.701	1.270	1.857	31.300	92.550	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:56:49	1076.000	0.000	7.085	6.916	66.566%	2.312	2.419	2.669
2	22:56:57	1104.000	0.000	7.311	7.343	66.558%	2.291	2.441	3.059
3	22:57:05	1106.000	0.000	7.240	6.849	66.840%	2.446	2.245	2.586
x		1095.000	0.000	7.212	7.036	66.655%	2.350	2.368	2.771
σ		16.890	0.000	0.116	0.268	0.161%	0.084	0.108	0.253
%RSD		1.542	0.000	1.606	3.810	0.241	3.581	4.540	9.112

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	22:56:49	3.672	64.370%	164.200	3.114	3.136	165.200	174.100	73.919%
2	22:56:57	3.749	64.390%	163.100	3.066	2.846	169.800	178.400	73.174%
3	22:57:05	3.570	65.057%	164.700	3.255	2.669	168.700	172.400	75.442%
x		3.663	64.606%	164.000	3.145	2.883	167.900	175.000	74.178%
σ		0.090	0.391%	0.825	0.098	0.236	2.410	3.122	1.156%
%RSD		2.444	0.606	0.503	3.131	8.181	1.435	1.784	1.558

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	22:56:49	0.397	0.336	786.900	733.200	756.300	72.788%
2	22:56:57	0.416	0.312	788.600	736.500	759.400	71.746%
3	22:57:05	0.307	0.314	772.100	724.100	741.600	73.914%
x		0.373	0.321	782.500	731.300	752.500	72.816%
σ		0.058	0.013	9.100	6.445	9.526	1.084%
%RSD		15.670	4.163	1.163	0.881	1.266	1.489

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Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:01:28	113.967%	236.800	5.311	264.900	267.000	0.000	54350.000	58240.000
2	23:01:36	114.467%	238.900	5.291	267.900	265.800	0.000	53680.000	57530.000
3	23:01:44	115.345%	239.600	5.263	270.600	265.900	0.000	53940.000	57820.000
x		114.593%	238.400	5.289	267.800	266.200	0.000	53990.000	57860.000
σ		0.697%	1.466	0.024	2.852	0.699	0.000	337.700	357.500
%RSD		0.609	0.615	0.456	1.065	0.263	0.000	0.625	0.618

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:01:28	58110.000	119100.000	8745.000	0.000	30330.000	32320.000	30380.000	86.000%
2	23:01:36	56900.000	117600.000	8738.000	0.000	29780.000	31640.000	30160.000	88.778%
3	23:01:44	57420.000	118600.000	8927.000	0.000	30190.000	32390.000	30250.000	90.173%
x		57480.000	118400.000	8803.000	0.000	30100.000	32110.000	30270.000	88.317%
σ		610.900	773.000	107.300	0.000	286.700	411.700	113.200	2.125%
%RSD		1.063	0.653	1.219	0.000	0.953	1.282	0.374	2.406

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:01:28	6213.000	388.500	391.700	2227.000	262600.000	260600.000	65.150	191.600
2	23:01:36	6168.000	390.600	389.100	2202.000	262300.000	261300.000	65.440	186.500
3	23:01:44	6174.000	389.000	386.800	2195.000	261700.000	259600.000	65.480	187.400
x		6185.000	389.400	389.200	2208.000	262200.000	260500.000	65.360	188.500
σ		24.330	1.119	2.468	16.950	463.900	847.400	0.181	2.743
%RSD		0.393	0.287	0.634	0.768	0.177	0.325	0.276	1.455

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:01:28	245.800	255.800	713.500	722.100	111.700	13.710	5.315	0.000
2	23:01:36	246.100	251.100	719.900	710.400	114.200	14.980	23.200	0.000
3	23:01:44	244.700	245.500	710.000	707.200	115.300	14.980	24.690	0.000
x		245.500	250.800	714.500	713.200	113.800	14.560	17.740	0.000
σ		0.774	5.144	5.032	7.834	1.852	0.731	10.780	0.000
%RSD		0.315	2.051	0.704	1.098	1.628	5.020	60.790	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:01:28	264.900	0.000	45.450	45.920	75.468%	2.932	3.020	5.961
2	23:01:36	266.400	0.000	46.420	45.690	76.622%	2.731	2.921	6.674
3	23:01:44	265.600	0.000	44.760	45.270	79.208%	2.757	2.828	5.825
x		265.600	0.000	45.540	45.630	77.099%	2.806	2.923	6.153
σ		0.737	0.000	0.836	0.328	1.915%	0.109	0.096	0.456
%RSD		0.277	0.000	1.836	0.720	2.484	3.887	3.291	7.413

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:01:28	4.102	71.841%	62.930	3.009	3.198	284.800	264.800	81.921%
2	23:01:36	4.106	73.425%	65.400	3.023	2.720	269.300	277.200	83.714%
3	23:01:44	4.149	75.245%	62.660	2.803	3.010	267.500	277.900	83.933%
x		4.119	73.504%	63.660	2.945	2.976	273.900	273.300	83.189%
σ		0.026	1.704%	1.514	0.123	0.241	9.515	7.375	1.104%
%RSD		0.633	2.318	2.378	4.190	8.089	3.474	2.698	1.327

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	23:01:28	2.475	2.290	290.600	265.200	279.500	63.577%
2	23:01:36	2.482	2.563	290.200	263.400	277.300	63.881%
3	23:01:44	2.690	2.435	289.700	262.100	275.600	65.120%
x		2.549	2.429	290.200	263.600	277.500	64.193%
σ		0.122	0.137	0.439	1.569	1.969	0.818%
%RSD		4.782	5.626	0.151	0.595	0.710	1.274

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Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:10:13	110.499%	1.562	-0.006	0.542	0.435	0.000	-191.100	1.284
2	23:10:21	109.487%	1.360	-0.006	-0.218	0.617	0.000	-194.200	0.998
3	23:10:29	111.127%	0.971	-0.007	-0.092	0.360	0.000	-190.900	0.607
x		110.371%	1.298	-0.006	0.077	0.471	0.000	-192.100	0.963
σ		0.827%	0.300	0.000	0.407	0.132	0.000	1.805	0.340
%RSD		0.750	23.160	4.518	526.800	28.090	0.000	0.940	35.280

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:10:13	1.920	3.588	75.290	0.000	15.100	23.230	14.750	106.390%
2	23:10:21	1.029	3.509	60.400	0.000	13.430	15.140	9.908	107.335%
3	23:10:29	0.828	3.423	63.880	0.000	12.990	25.200	13.890	107.482%
x		1.259	3.507	66.520	0.000	13.840	21.190	12.850	107.069%
σ		0.581	0.082	7.788	0.000	1.113	5.333	2.582	0.593%
%RSD		46.170	2.351	11.710	0.000	8.042	25.170	20.090	0.554

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:10:13	0.026	0.304	0.157	0.446	5.468	3.991	-0.009	0.664
2	23:10:21	0.238	0.119	0.317	0.530	5.617	11.120	-0.018	0.556
3	23:10:29	0.189	0.352	0.302	0.489	6.828	9.940	-0.000	0.590
x		0.151	0.258	0.258	0.488	5.971	8.351	-0.009	0.604
σ		0.111	0.123	0.089	0.042	0.746	3.822	0.009	0.055
%RSD		73.210	47.620	34.250	8.677	12.490	45.760	96.420	9.122

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:10:13	0.323	0.788	0.488	0.712	0.056	-0.106	0.947	0.000
2	23:10:21	0.441	0.302	0.756	0.313	0.000	-0.106	0.567	0.000
3	23:10:29	0.474	0.246	0.640	0.385	0.000	-0.106	1.307	0.000
x		0.413	0.445	0.628	0.470	0.019	-0.106	0.940	0.000
σ		0.079	0.298	0.134	0.212	0.032	0.000	0.370	0.000
%RSD		19.200	66.920	21.380	45.210	169.600	0.000	39.330	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:10:13	0.048	91.666%	0.036	0.021	96.925%	-0.022	-0.031	-0.117
2	23:10:21	0.046	93.587%	0.079	0.038	98.004%	-0.008	-0.013	-0.007
3	23:10:29	0.066	92.784%	0.124	0.048	97.975%	-0.023	-0.013	0.066
x		0.053	92.679%	0.080	0.036	97.635%	-0.018	-0.019	-0.019
σ		0.011	0.965%	0.044	0.013	0.615%	0.008	0.011	0.092
%RSD		20.900	1.041	55.230	37.490	0.630	48.240	57.300	481.100

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:10:13	0.072	89.925%	4.909	0.024	0.016	-0.039	-0.033	88.909%
2	23:10:21	0.062	90.860%	4.341	0.014	0.004	0.026	0.074	90.555%
3	23:10:29	0.098	91.353%	4.233	0.033	0.004	0.090	0.037	92.384%
x		0.077	90.713%	4.494	0.024	0.008	0.025	0.026	90.616%
σ		0.019	0.725%	0.363	0.009	0.007	0.064	0.054	1.738%
%RSD		24.330	0.799	8.077	38.140	90.450	254.600	206.900	1.918

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	23:10:13	0.007	0.001	0.056	0.044	0.064	86.524%
2	23:10:21	-0.004	0.010	0.104	0.088	0.091	88.203%
3	23:10:29	-0.001	0.007	0.075	0.122	0.097	89.358%
x		0.001	0.006	0.078	0.085	0.084	88.029%
σ		0.006	0.004	0.024	0.039	0.017	1.425%
%RSD		912.500	71.390	30.510	45.680	20.720	1.619

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User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:14:48	108.088%	1.430	51.110	1018.000	1013.000	0.000	57710.000	55750.000
2	23:14:57	105.054%	2.410	52.800	1048.000	1044.000	0.000	57790.000	55700.000
3	23:15:05	105.323%	2.369	50.880	1047.000	1039.000	0.000	58560.000	56730.000
x		106.155%	2.070	51.600	1038.000	1032.000	0.000	58020.000	56060.000
σ		1.679%	0.554	1.048	17.270	16.750	0.000	470.600	581.800
%RSD		1.582	26.780	2.031	1.664	1.623	0.000	0.811	1.038

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:14:48	55430.000	10650.000	103.400	0.000	54360.000	53640.000	50640.000	85.991%
2	23:14:57	55610.000	10990.000	111.400	0.000	54520.000	53280.000	54100.000	86.105%
3	23:15:05	56360.000	10970.000	112.300	0.000	55010.000	53910.000	51380.000	84.924%
x		55800.000	10870.000	109.000	0.000	54630.000	53610.000	52040.000	85.673%
σ		492.900	187.800	4.917	0.000	335.000	316.800	1817.000	0.651%
%RSD		0.883	1.727	4.511	0.000	0.613	0.591	3.491	0.760

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:14:48	1061.000	452.500	193.000	542.500	10260.000	10780.000	501.800	499.400
2	23:14:57	1068.000	463.600	196.600	544.300	10370.000	10720.000	504.100	505.200
3	23:15:05	1071.000	473.400	202.100	564.100	10500.000	10920.000	507.000	508.700
x		1067.000	463.200	197.200	550.300	10370.000	10800.000	504.300	504.500
σ		4.896	10.440	4.571	12.000	124.500	100.700	2.597	4.709
%RSD		0.459	2.255	2.318	2.180	1.200	0.932	0.515	0.934

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:14:48	260.100	267.100	500.300	501.100	40.950	11.360	9.656	0.000
2	23:14:57	261.000	264.600	492.900	514.200	39.290	9.463	11.350	0.000
3	23:15:05	266.500	267.200	512.100	509.600	43.200	13.370	12.790	0.000
x		262.600	266.300	501.800	508.300	41.140	11.400	11.260	0.000
σ		3.487	1.469	9.690	6.628	1.961	1.956	1.567	0.000
%RSD		1.328	0.551	1.931	1.304	4.767	17.160	13.910	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:14:48	965.200	68.755%	1108.000	1097.000	72.439%	55.460	56.870	50.470
2	23:14:57	968.800	69.930%	1126.000	1098.000	73.402%	53.590	54.160	52.290
3	23:15:05	967.700	70.217%	1128.000	1106.000	73.584%	54.550	54.900	55.400
x		967.200	69.634%	1121.000	1100.000	73.142%	54.530	55.310	52.720
σ		1.827	0.774%	11.110	4.730	0.616%	0.934	1.399	2.493
%RSD		0.189	1.112	0.991	0.430	0.842	1.712	2.529	4.729

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:14:48	86.780	68.061%	2087.000	503.400	500.500	1905.000	1923.000	75.078%
2	23:14:57	86.350	69.583%	2107.000	509.800	501.900	1923.000	1936.000	77.322%
3	23:15:05	86.840	69.101%	2137.000	520.200	512.100	1982.000	1968.000	76.040%
x		86.660	68.915%	2110.000	511.100	504.800	1937.000	1943.000	76.147%
σ		0.266	0.778%	24.790	8.479	6.330	40.210	22.880	1.126%
%RSD		0.307	1.129	1.175	1.659	1.254	2.076	1.178	1.478

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	23:14:48	52.630	52.510	22.010	22.440	22.130	71.897%
2	23:14:57	53.430	52.990	22.580	21.500	21.880	72.861%
3	23:15:05	52.840	53.560	22.470	21.720	22.200	69.980%
x		52.960	53.020	22.350	21.880	22.070	71.579%
σ		0.415	0.526	0.299	0.491	0.166	1.467%
%RSD		0.784	0.993	1.338	2.242	0.753	2.049

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User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:19:26	109.304%	175.600	14.370	34.590	34.360	0.000	279.100	18050.000
2	23:19:34	106.757%	177.700	14.150	35.170	34.580	0.000	271.700	17750.000
3	23:19:42	106.921%	175.600	14.360	34.330	34.230	0.000	267.000	17710.000
x		107.661%	176.300	14.290	34.700	34.390	0.000	272.600	17840.000
σ		1.426%	1.213	0.120	0.431	0.178	0.000	6.092	186.200
%RSD		1.324	0.688	0.842	1.241	0.519	0.000	2.235	1.044

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:19:26	18020.000	96010.000	5776.000	0.000	10420.000	18560.000	17170.000	93.828%
2	23:19:34	17750.000	95150.000	5729.000	0.000	10290.000	18110.000	17080.000	93.154%
3	23:19:42	17610.000	94340.000	5678.000	0.000	10190.000	18360.000	16870.000	93.493%
x		17790.000	95170.000	5728.000	0.000	10300.000	18340.000	17040.000	93.492%
σ		208.100	836.800	49.020	0.000	112.600	228.000	157.900	0.337%
%RSD		1.169	0.879	0.856	0.000	1.093	1.243	0.927	0.360

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:19:26	426.000	286.000	277.700	7451.000	504700.000	532800.000	196.500	391.300
2	23:19:34	428.700	284.100	283.600	7453.000	509800.000	535100.000	195.900	397.500
3	23:19:42	413.700	287.800	284.100	7364.000	511200.000	539200.000	198.300	392.400
x		422.800	286.000	281.800	7423.000	508600.000	535700.000	196.900	393.700
σ		7.968	1.865	3.537	50.450	3401.000	3246.000	1.238	3.306
%RSD		1.885	0.652	1.255	0.680	0.669	0.606	0.629	0.840

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:19:26	908.300	929.200	6193.000	6209.000	186.400	12.090	18.490	0.000
2	23:19:34	904.800	924.200	6178.000	6200.000	182.800	13.330	19.600	0.000
3	23:19:42	904.500	926.700	6207.000	6228.000	188.000	13.270	25.180	0.000
x		905.800	926.700	6193.000	6212.000	185.700	12.900	21.090	0.000
σ		2.104	2.482	14.630	14.140	2.682	0.703	3.587	0.000
%RSD		0.232	0.268	0.236	0.228	1.444	5.452	17.010	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:19:26	217.400	0.000	76.890	78.570	77.484%	1.109	0.908	7.329
2	23:19:34	222.500	0.000	78.720	79.180	78.671%	1.024	0.953	7.195
3	23:19:42	214.600	0.000	75.480	79.610	79.040%	0.896	0.870	7.606
x		218.200	0.000	77.030	79.120	78.398%	1.010	0.910	7.376
σ		4.035	0.000	1.622	0.520	0.813%	0.107	0.042	0.210
%RSD		1.849	0.000	2.105	0.657	1.037	10.610	4.579	2.841

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:19:26	6.257	73.881%	51.290	8.656	8.467	1117.000	1126.000	82.407%
2	23:19:34	5.691	75.682%	49.600	8.161	8.036	1134.000	1114.000	83.765%
3	23:19:42	5.798	75.390%	50.220	8.108	8.114	1152.000	1141.000	82.217%
x		5.915	74.984%	50.370	8.308	8.206	1134.000	1127.000	82.796%
σ		0.300	0.967%	0.854	0.302	0.229	17.110	13.480	0.844%
%RSD		5.080	1.290	1.696	3.636	2.795	1.509	1.196	1.020

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	23:19:26	2.334	2.304	801.600	738.000	767.600	65.398%
2	23:19:34	2.339	2.324	810.800	744.200	774.500	64.767%
3	23:19:42	2.373	2.284	807.300	753.500	775.300	66.371%
x		2.349	2.304	806.500	745.200	772.500	65.512%
σ		0.021	0.020	4.642	7.800	4.255	0.808%
%RSD		0.914	0.868	0.576	1.047	0.551	1.233

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User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:24:05	98.124%	151.100	13.620	32.590	31.560	0.000	224.200	15130.000
2	23:24:13	96.808%	153.600	13.520	30.460	31.900	0.000	215.400	14880.000
3	23:24:20	98.032%	152.300	13.370	29.840	31.610	0.000	213.500	14840.000
x		97.655%	152.300	13.500	30.960	31.690	0.000	217.700	14950.000
σ		0.735%	1.287	0.122	1.443	0.181	0.000	5.684	157.300
%RSD		0.752	0.845	0.901	4.661	0.571	0.000	2.611	1.052

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:24:05	15080.000	86480.000	8405.000	0.000	8996.000	14740.000	13970.000	84.762%
2	23:24:13	14880.000	85640.000	8070.000	0.000	8863.000	14780.000	13850.000	86.469%
3	23:24:20	15190.000	85920.000	8221.000	0.000	8833.000	14580.000	13750.000	87.243%
x		15050.000	86010.000	8232.000	0.000	8898.000	14700.000	13860.000	86.158%
σ		160.800	430.800	168.100	0.000	86.930	103.900	108.900	1.270%
%RSD		1.068	0.501	2.042	0.000	0.977	0.707	0.786	1.473

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:24:05	526.100	304.300	256.000	8528.000	556500.000	585400.000	180.800	405.500
2	23:24:13	506.100	303.300	256.500	8437.000	555600.000	585200.000	174.100	406.300
3	23:24:20	521.600	310.300	256.600	8451.000	560100.000	591000.000	179.300	406.600
x		517.900	306.000	256.400	8472.000	557400.000	587200.000	178.000	406.100
σ		10.500	3.808	0.308	49.070	2405.000	3294.000	3.538	0.536
%RSD		2.028	1.244	0.120	0.579	0.431	0.561	1.987	0.132

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:24:05	699.500	716.400	5105.000	5110.000	206.900	10.590	18.790	0.000
2	23:24:13	696.600	716.400	5031.000	5065.000	204.700	8.611	12.280	0.000
3	23:24:20	700.900	717.700	5054.000	5138.000	213.100	8.983	26.080	0.000
x		699.000	716.800	5063.000	5104.000	208.200	9.394	19.050	0.000
σ		2.200	0.774	37.920	36.830	4.322	1.050	6.906	0.000
%RSD		0.315	0.108	0.749	0.722	2.076	11.180	36.250	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:24:05	198.400	0.000	83.060	81.440	72.931%	0.982	0.879	7.592
2	23:24:13	193.900	0.000	82.690	83.900	73.712%	0.942	0.952	6.794
3	23:24:20	194.900	0.000	81.480	84.240	73.729%	0.946	0.966	7.804
x		195.700	0.000	82.410	83.190	73.457%	0.957	0.933	7.397
σ		2.327	0.000	0.826	1.527	0.456%	0.022	0.047	0.532
%RSD		1.189	0.000	1.003	1.835	0.620	2.334	5.003	7.198

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:24:05	5.927	69.966%	50.780	9.820	10.840	1239.000	1231.000	81.023%
2	23:24:13	6.359	70.895%	50.020	11.000	10.070	1248.000	1237.000	81.184%
3	23:24:20	6.388	72.978%	48.680	10.320	9.844	1237.000	1243.000	81.690%
x		6.225	71.280%	49.830	10.380	10.250	1241.000	1237.000	81.299%
σ		0.258	1.542%	1.064	0.593	0.522	5.975	5.730	0.348%
%RSD		4.147	2.164	2.136	5.711	5.092	0.481	0.463	0.428

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	23:24:05	2.486	2.533	741.400	672.800	704.100	68.750%
2	23:24:13	2.295	2.398	745.000	683.900	709.200	68.515%
3	23:24:20	2.493	2.350	741.000	681.000	709.800	69.075%
x		2.425	2.427	742.500	679.200	707.700	68.780%
σ		0.113	0.095	2.186	5.793	3.147	0.281%
%RSD		4.653	3.923	0.294	0.853	0.445	0.409

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User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:28:40	93.544%	134.500	6.833	35.850	36.970	0.000	167.200	11830.000
2	23:28:48	93.611%	134.500	6.628	37.340	38.850	0.000	166.600	11830.000
3	23:28:56	95.505%	133.600	6.425	36.010	38.400	0.000	165.600	11730.000
x		94.220%	134.200	6.628	36.400	38.070	0.000	166.500	11800.000
σ		1.113%	0.514	0.204	0.820	0.980	0.000	0.804	54.930
%RSD		1.182	0.383	3.078	2.251	2.573	0.000	0.483	0.466

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:28:40	11850.000	72230.000	8560.000	0.000	9046.000	26680.000	24890.000	78.003%
2	23:28:48	11750.000	71880.000	8548.000	0.000	9035.000	26810.000	24890.000	79.498%
3	23:28:56	11710.000	71620.000	8521.000	0.000	9013.000	26570.000	24680.000	80.495%
x		11770.000	71910.000	8543.000	0.000	9031.000	26690.000	24820.000	79.332%
σ		71.110	305.400	19.980	0.000	17.010	124.200	125.700	1.255%
%RSD		0.604	0.425	0.234	0.000	0.188	0.465	0.507	1.581

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:28:40	464.000	153.700	109.500	3288.000	172900.000	172800.000	95.120	184.500
2	23:28:48	466.600	160.100	109.000	3267.000	176900.000	175100.000	99.610	187.200
3	23:28:56	456.500	162.300	117.600	3242.000	179400.000	177300.000	102.100	187.900
x		462.400	158.700	112.000	3265.000	176400.000	175100.000	98.950	186.500
σ		5.259	4.431	4.839	22.960	3245.000	2275.000	3.544	1.799
%RSD		1.137	2.792	4.319	0.703	1.839	1.300	3.581	0.965

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:28:40	210.300	215.100	902.100	898.200	54.910	7.402	4.685	0.000
2	23:28:48	209.800	217.400	899.900	909.900	56.900	8.849	12.310	0.000
3	23:28:56	217.600	218.200	905.300	917.000	59.140	9.469	11.870	0.000
x		212.600	216.900	902.400	908.400	56.980	8.573	9.620	0.000
σ		4.392	1.573	2.727	9.516	2.117	1.061	4.279	0.000
%RSD		2.066	0.725	0.302	1.048	3.715	12.370	44.480	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:28:40	194.400	0.000	24.700	25.100	71.872%	0.729	0.630	4.207
2	23:28:48	195.100	0.000	23.870	26.320	74.580%	0.697	0.524	3.118
3	23:28:56	195.500	0.000	23.970	24.790	76.776%	0.700	0.518	3.707
x		195.000	0.000	24.180	25.400	74.409%	0.709	0.557	3.678
σ		0.567	0.000	0.450	0.805	2.456%	0.018	0.063	0.545
%RSD		0.291	0.000	1.862	3.169	3.301	2.497	11.320	14.820

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:28:40	3.313	69.011%	52.180	2.780	2.629	987.500	983.300	79.952%
2	23:28:48	3.343	71.381%	53.860	2.782	2.431	1011.000	1010.000	82.260%
3	23:28:56	3.065	73.197%	53.890	3.072	2.694	997.400	996.600	84.803%
x		3.240	71.196%	53.310	2.878	2.585	998.600	996.700	82.338%
σ		0.153	2.099%	0.984	0.168	0.137	11.830	13.480	2.426%
%RSD		4.720	2.949	1.846	5.833	5.305	1.185	1.353	2.947

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	23:28:40	2.077	1.936	185.900	167.600	176.200	73.057%
2	23:28:48	2.026	1.993	187.600	167.500	176.400	75.674%
3	23:28:56	1.945	1.974	185.300	168.200	175.500	77.029%
x		2.016	1.968	186.300	167.700	176.000	75.254%
σ		0.066	0.029	1.218	0.400	0.473	2.019%
%RSD		3.281	1.473	0.654	0.238	0.269	2.683

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User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:36:57	85.631%	89.850	93.060	87.540	87.440	0.000	49230.000	49390.000
2	23:37:05	83.879%	93.300	97.320	90.010	91.830	0.000	51830.000	52110.000
3	23:37:13	82.001%	101.500	107.600	98.750	99.340	0.000	58710.000	58680.000
x		83.837%	94.892%	99.318%	92.099%	92.869%	0.000	106.516%	106.785%
σ		1.816%	n/a	n/a	n/a	n/a	0.000	n/a	n/a
%RSD		2.166	6.320	7.513	6.396	6.478	0.000	9.200	8.952

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:36:57	49190.000	493.100	4662.000	0.000	49120.000	48550.000	46390.000	79.174%
2	23:37:05	52000.000	519.700	4949.000	0.000	51740.000	51030.000	48570.000	77.132%
3	23:37:13	58500.000	568.000	5580.000	0.000	58740.000	57700.000	54960.000	73.286%
x		106.458%	105.393%	101.272%	0.000	106.402%	104.855%	99.948%	76.531%
σ		n/a	n/a	n/a	0.000	n/a	n/a	n/a	2.990%
%RSD		8.974	7.209	9.279	0.000	9.348	9.024	8.909	3.907

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:36:57	101.600	93.870	92.050	494.600	23620.000	23220.000	95.090	92.550
2	23:37:05	104.400	96.470	95.670	517.800	24900.000	24320.000	98.390	101.000
3	23:37:13	123.300	103.100	103.000	582.600	26580.000	25960.000	104.400	105.300
x		109.770%	97.807%	96.902%	106.334%	100.128%	97.985%	99.278%	99.601%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		10.770	4.857	5.747	8.579	5.932	5.631	4.732	6.500

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:36:57	95.170	97.430	93.880	92.390	92.000	94.500	92.980	0.000
2	23:37:05	99.430	102.400	98.550	97.640	96.740	99.500	101.400	0.000
3	23:37:13	102.900	102.300	105.800	112.400	99.570	104.400	98.390	0.000
x		99.150%	100.717%	99.424%	100.815%	96.104%	99.462%	97.600%	0.000
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.000
%RSD		3.884	2.829	6.067	10.300	3.975	4.970	4.388	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:36:57	93.690	75.093%	101.900	103.000	72.934%	95.050	96.520	100.100
2	23:37:05	93.810	77.045%	101.800	103.000	74.332%	94.490	97.540	104.200
3	23:37:13	91.910	79.764%	101.000	104.300	76.555%	94.280	95.850	101.300
x		93.138%	77.301%	101.558%	103.440%	74.607%	94.606%	96.637%	101.857%
σ		n/a	2.346%	n/a	n/a	1.826%	n/a	n/a	n/a
%RSD		1.144	3.034	0.453	0.692	2.448	0.420	0.881	2.054

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:36:57	103.600	72.904%	97.630	99.050	97.890	93.160	93.860	74.362%
2	23:37:05	103.400	74.729%	100.400	98.820	100.200	93.100	101.000	76.339%
3	23:37:13	105.200	76.075%	101.400	100.900	99.300	92.810	97.530	79.081%
x		104.068%	74.569%	99.796%	99.592%	99.119%	93.025%	97.480%	76.594%
σ		n/a	1.591%	n/a	n/a	n/a	n/a	n/a	2.370%
%RSD		0.925	2.134	1.945	1.152	1.160	0.204	3.683	3.094

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	23:36:57	101.600	99.990	101.100	99.980	101.200	63.010%
2	23:37:05	102.500	99.500	101.600	102.200	102.000	66.127%
3	23:37:13	100.600	99.960	102.300	101.600	102.000	69.258%
x		101.560%	99.816%	101.654%	101.245%	101.737%	66.131%
σ		n/a	n/a	n/a	n/a	n/a	3.124%
%RSD		0.948	0.277	0.577	1.120	0.433	4.724

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User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:41:36	87.090%	1.764	0.034	0.909	0.878	0.000	-183.300	8.737
2	23:41:44	87.120%	1.154	0.049	0.757	0.595	0.000	-185.400	8.887
3	23:41:52	88.033%	1.012	0.004	0.510	0.884	0.000	-184.800	8.589
x		87.415%	1.310	0.029	0.725	0.786	0.000	-184.500	8.737
σ		0.536%	0.399	0.023	0.201	0.165	0.000	1.070	0.149
%RSD		0.613	30.490	78.970	27.760	21.030	0.000	0.580	1.703

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:41:36	9.138	3.298	-11.760	0.000	54.220	20.450	16.320	88.604%
2	23:41:44	8.618	3.162	-15.590	0.000	49.630	17.060	14.900	89.170%
3	23:41:52	8.974	2.934	-8.118	0.000	50.060	6.429	13.460	89.059%
x		8.910	3.131	-11.820	0.000	51.300	14.650	14.890	88.945%
σ		0.266	0.184	3.736	0.000	2.536	7.315	1.430	0.300%
%RSD		2.988	5.875	31.600	0.000	4.943	49.940	9.605	0.337

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:41:36	0.046	0.119	0.067	0.387	8.755	6.746	0.013	0.530
2	23:41:44	0.101	0.087	0.080	0.329	8.226	10.870	-0.008	0.588
3	23:41:52	0.130	0.056	-0.011	0.394	8.715	10.780	0.003	0.256
x		0.092	0.087	0.045	0.370	8.565	9.465	0.003	0.458
σ		0.043	0.032	0.049	0.036	0.295	2.356	0.011	0.177
%RSD		46.280	36.270	108.100	9.708	3.441	24.890	379.800	38.730

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:41:36	0.075	0.027	0.191	-0.007	0.153	-0.106	1.479	0.000
2	23:41:44	0.083	0.068	0.182	0.204	0.086	-0.106	-1.783	0.000
3	23:41:52	-0.004	0.065	0.131	0.076	0.085	0.079	1.013	0.000
x		0.051	0.054	0.168	0.091	0.108	-0.044	0.236	0.000
σ		0.048	0.023	0.032	0.106	0.039	0.107	1.764	0.000
%RSD		93.150	42.810	19.240	116.800	36.030	240.400	747.000	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:41:36	0.080	80.936%	0.232	0.305	84.290%	-0.015	-0.008	0.046
2	23:41:44	0.034	83.430%	0.491	0.266	86.257%	-0.012	0.028	0.040
3	23:41:52	0.096	85.592%	0.351	0.210	87.400%	-0.020	-0.006	0.047
x		0.070	83.319%	0.358	0.260	85.983%	-0.016	0.005	0.044
σ		0.032	2.330%	0.130	0.048	1.573%	0.004	0.020	0.004
%RSD		45.850	2.797	36.210	18.490	1.829	26.990	419.200	7.937

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:41:36	-0.003	82.453%	-0.038	0.272	0.144	0.031	0.006	85.583%
2	23:41:44	0.027	85.613%	-0.018	0.154	0.209	0.099	0.005	86.091%
3	23:41:52	0.036	86.301%	-0.075	0.172	0.147	-0.039	0.041	89.008%
x		0.020	84.789%	-0.044	0.199	0.167	0.030	0.017	86.894%
σ		0.020	2.052%	0.029	0.064	0.037	0.069	0.021	1.848%
%RSD		101.200	2.420	66.820	31.890	22.150	229.100	120.300	2.127

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	23:41:36	0.047	0.039	0.108	0.035	0.080	86.155%
2	23:41:44	0.032	0.033	0.029	0.055	0.060	86.246%
3	23:41:52	0.017	0.026	0.099	0.124	0.088	88.192%
x		0.032	0.033	0.079	0.071	0.076	86.864%
σ		0.015	0.006	0.043	0.047	0.014	1.150%
%RSD		46.290	19.590	54.510	65.680	18.700	1.324

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User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:46:16	94.128%	143.800	22.430	54.130	53.470	0.000	285.900	14940.000
2	23:46:24	94.616%	142.200	22.160	52.170	53.180	0.000	275.400	14720.000
3	23:46:32	93.842%	145.300	22.090	52.690	53.610	0.000	285.600	14940.000
x		94.195%	143.700	22.230	53.000	53.420	0.000	282.300	14870.000
σ		0.391%	1.528	0.177	1.015	0.219	0.000	5.978	127.900
%RSD		0.415	1.063	0.797	1.916	0.411	0.000	2.118	0.860

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:46:16	14910.000	90900.000	9422.000	0.000	9421.000	26440.000	24920.000	83.944%
2	23:46:24	14680.000	89490.000	9221.000	0.000	9225.000	26560.000	24560.000	84.763%
3	23:46:32	14850.000	90780.000	9381.000	0.000	9322.000	26390.000	24660.000	84.005%
x		14820.000	90390.000	9341.000	0.000	9323.000	26460.000	24710.000	84.237%
σ		120.400	782.700	106.000	0.000	98.150	88.420	182.100	0.456%
%RSD		0.813	0.866	1.135	0.000	1.053	0.334	0.737	0.541

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:46:16	709.600	254.800	205.000	6939.000	535900.000	566900.000	160.200	400.700
2	23:46:24	709.400	244.800	196.100	6849.000	504600.000	531500.000	149.200	375.500
3	23:46:32	699.200	265.700	212.900	6912.000	557500.000	585800.000	168.700	414.000
x		706.000	255.100	204.700	6900.000	532700.000	561400.000	159.400	396.700
σ		5.947	10.470	8.416	46.280	26630.000	27540.000	9.771	19.530
%RSD		0.842	4.103	4.113	0.671	5.000	4.906	6.131	4.922

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:46:16	2831.000	2885.000	14390.000	14510.000	165.700	11.670	15.710	0.000
2	23:46:24	2623.000	2682.000	13360.000	13450.000	156.200	9.280	24.490	0.000
3	23:46:32	2929.000	3002.000	15000.000	15080.000	177.300	10.460	28.320	0.000
x		2794.000	2857.000	14250.000	14350.000	166.400	10.470	22.840	0.000
σ		156.200	162.000	825.500	828.500	10.570	1.197	6.466	0.000
%RSD		5.591	5.669	5.793	5.774	6.353	11.440	28.310	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:46:16	245.400	0.000	53.830	56.580	70.697%	1.519	1.349	6.677
2	23:46:24	224.800	0.000	53.140	51.170	73.880%	1.323	1.236	5.509
3	23:46:32	249.900	0.000	57.960	58.810	70.194%	1.437	1.219	7.404
x		240.000	0.000	54.980	55.520	71.590%	1.426	1.268	6.530
σ		13.370	0.000	2.609	3.926	1.999%	0.099	0.071	0.956
%RSD		5.568	0.000	4.745	7.071	2.792	6.909	5.596	14.630

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:46:16	8.042	69.873%	236.900	20.870	20.050	955.600	971.500	82.032%
2	23:46:24	7.377	72.983%	221.400	18.980	18.970	884.500	890.300	85.631%
3	23:46:32	8.242	69.739%	247.100	21.270	20.390	1037.000	1012.000	80.364%
x		7.887	70.865%	235.100	20.370	19.800	959.100	957.800	82.675%
σ		0.453	1.835%	12.960	1.223	0.746	76.510	61.820	2.692%
%RSD		5.744	2.590	5.511	6.001	3.765	7.977	6.455	3.256

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	23:46:16	1.814	1.941	1542.000	1421.000	1478.000	70.391%
2	23:46:24	1.648	1.747	1363.000	1268.000	1307.000	75.823%
3	23:46:32	2.050	2.082	1555.000	1444.000	1494.000	70.108%
x		1.837	1.923	1487.000	1377.000	1426.000	72.107%
σ		0.202	0.168	107.000	95.630	103.800	3.221%
%RSD		10.990	8.747	7.199	6.943	7.278	4.467

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User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:50:54	77.809%	35.400	4.929	12.340	11.730	0.000	-65.100	3553.000
2	23:51:02	84.832%	31.500	4.893	12.160	11.640	0.000	-102.600	3294.000
3	23:51:10	86.974%	30.220	4.505	10.680	10.740	0.000	-113.900	3158.000
x		83.205%	32.370	4.776	11.730	11.370	0.000	-93.860	3335.000
σ		4.794%	2.700	0.235	0.907	0.549	0.000	25.530	200.600
%RSD		5.762	8.341	4.922	7.737	4.826	0.000	27.200	6.014

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:50:54	3580.000	22160.000	2872.000	0.000	2373.000	6478.000	6076.000	69.539%
2	23:51:02	3268.000	20310.000	2572.000	0.000	2159.000	5866.000	5485.000	78.503%
3	23:51:10	3161.000	19510.000	2319.000	0.000	2071.000	5561.000	5299.000	80.087%
x		3337.000	20660.000	2587.000	0.000	2201.000	5968.000	5620.000	76.043%
σ		217.500	1360.000	276.800	0.000	155.400	466.900	405.600	5.688%
%RSD		6.518	6.583	10.700	0.000	7.059	7.822	7.218	7.480

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:50:54	191.000	57.250	44.160	1693.000	115700.000	113600.000	34.920	88.050
2	23:51:02	157.900	49.690	41.270	1526.000	107500.000	105900.000	31.410	82.360
3	23:51:10	157.900	51.180	41.030	1478.000	106700.000	105000.000	30.060	82.740
x		168.900	52.710	42.150	1566.000	110000.000	108200.000	32.130	84.380
σ		19.110	4.002	1.741	113.000	5019.000	4719.000	2.510	3.182
%RSD		11.320	7.593	4.131	7.218	4.564	4.363	7.811	3.771

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:50:54	597.700	617.300	2975.000	3016.000	30.970	2.617	6.096	0.000
2	23:51:02	567.400	584.500	2846.000	2827.000	31.780	1.283	5.400	0.000
3	23:51:10	555.700	570.300	2809.000	2843.000	30.030	1.842	6.584	0.000
x		573.600	590.700	2877.000	2895.000	30.930	1.914	6.027	0.000
σ		21.650	24.110	87.160	104.800	0.878	0.670	0.595	0.000
%RSD		3.775	4.082	3.030	3.621	2.838	35.000	9.870	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:50:54	42.550	78.683%	10.430	10.480	70.772%	0.277	0.255	1.748
2	23:51:02	43.340	81.086%	10.380	11.190	71.939%	0.346	0.305	1.682
3	23:51:10	44.000	82.529%	10.960	9.978	73.177%	0.366	0.252	1.082
x		43.300	80.766%	10.590	10.550	71.963%	0.330	0.271	1.504
σ		0.723	1.943%	0.320	0.610	1.203%	0.047	0.030	0.367
%RSD		1.671	2.405	3.024	5.779	1.671	14.150	11.080	24.390

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:50:54	1.773	68.486%	48.840	4.635	4.425	202.800	203.500	74.718%
2	23:51:02	1.817	69.591%	51.120	4.676	4.611	205.300	211.000	74.908%
3	23:51:10	1.801	72.173%	49.150	4.201	4.131	198.900	203.400	75.345%
x		1.797	70.083%	49.700	4.504	4.389	202.300	206.000	74.990%
σ		0.022	1.892%	1.238	0.263	0.242	3.240	4.356	0.322%
%RSD		1.243	2.700	2.491	5.840	5.512	1.601	2.115	0.429

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	23:50:54	0.346	0.379	306.100	284.100	295.600	66.881%
2	23:51:02	0.345	0.351	307.800	285.000	294.000	66.907%
3	23:51:10	0.452	0.368	302.700	279.600	290.100	65.503%
x		0.381	0.366	305.500	282.900	293.200	66.431%
σ		0.061	0.014	2.586	2.898	2.826	0.803%
%RSD		16.050	3.816	0.847	1.024	0.964	1.209

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User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:55:33	77.884%	241.800	65.880	1008.000	1002.000	0.000	53280.000	66620.000
2	23:55:41	78.577%	239.100	64.140	1014.000	996.000	0.000	52880.000	66140.000
3	23:55:49	78.928%	239.900	62.950	1005.000	992.500	0.000	52850.000	65890.000
x		78.463%	240.300	64.320	1009.000	996.800	0.000	53000.000	66220.000
σ		0.531%	1.391	1.476	4.341	4.737	0.000	238.100	370.300
%RSD		0.677	0.579	2.294	0.430	0.475	0.000	0.449	0.559

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:55:33	66470.000	110900.000	9861.000	0.000	56660.000	65010.000	61310.000	70.527%
2	23:55:41	65770.000	109900.000	9831.000	0.000	56050.000	63790.000	60560.000	71.758%
3	23:55:49	65630.000	109400.000	9741.000	0.000	55600.000	63860.000	64720.000	72.501%
x		65960.000	110100.000	9811.000	0.000	56100.000	64220.000	62190.000	71.595%
σ		448.200	779.700	62.090	0.000	532.900	685.200	2218.000	0.997%
%RSD		0.680	0.708	0.633	0.000	0.950	1.067	3.567	1.392

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:55:33	1204.000	668.000	418.100	7811.000	417800.000	415900.000	666.500	859.700
2	23:55:41	1168.000	682.000	424.200	7724.000	424400.000	423400.000	680.900	873.300
3	23:55:49	1174.000	689.000	426.700	7695.000	427800.000	422000.000	684.200	892.900
x		1182.000	679.700	423.000	7743.000	423300.000	420400.000	677.200	875.300
σ		19.520	10.660	4.448	60.640	5046.000	3962.000	9.402	16.700
%RSD		1.652	1.569	1.052	0.783	1.192	0.942	1.388	1.908

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:55:33	875.000	889.000	5434.000	5420.000	264.600	21.060	23.350	0.000
2	23:55:41	872.500	895.500	5527.000	5511.000	269.600	19.620	23.410	0.000
3	23:55:49	875.500	885.600	5500.000	5545.000	269.900	22.200	18.550	0.000
x		874.300	890.000	5487.000	5492.000	268.100	20.960	21.770	0.000
σ		1.605	5.033	48.060	64.640	2.981	1.295	2.791	0.000
%RSD		0.184	0.566	0.876	1.177	1.112	6.178	12.820	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:55:33	1114.000	0.000	1064.000	1069.000	68.503%	50.900	52.090	55.140
2	23:55:41	1157.000	0.000	1087.000	1095.000	69.387%	51.410	52.070	55.780
3	23:55:49	1152.000	0.000	1079.000	1091.000	70.822%	50.670	51.510	54.440
x		1141.000	0.000	1077.000	1085.000	69.571%	50.990	51.890	55.120
σ		23.360	0.000	11.760	14.010	1.170%	0.379	0.328	0.665
%RSD		2.048	0.000	1.092	1.291	1.682	0.743	0.633	1.207

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	23:55:33	82.520	67.837%	1944.000	399.500	388.100	2711.000	2713.000	77.003%
2	23:55:41	86.850	69.041%	1976.000	402.600	391.800	2748.000	2749.000	78.788%
3	23:55:49	86.380	69.031%	1987.000	413.400	400.200	2761.000	2778.000	79.507%
x		85.250	68.636%	1969.000	405.200	393.400	2740.000	2747.000	78.432%
σ		2.376	0.692%	22.370	7.276	6.189	26.170	32.630	1.289%
%RSD		2.788	1.009	1.136	1.796	1.573	0.955	1.188	1.644

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	23:55:33	50.920	50.490	516.700	479.900	495.900	64.318%
2	23:55:41	51.020	51.480	523.000	480.000	502.700	65.697%
3	23:55:49	50.260	50.140	517.700	477.700	496.400	67.352%
x		50.730	50.700	519.100	479.200	498.300	65.789%
σ		0.413	0.695	3.390	1.281	3.780	1.519%
%RSD		0.815	1.372	0.653	0.267	0.759	2.309

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User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:00:12	86.085%	190.000	68.340	946.000	929.200	0.000	49030.000	65340.000
2	00:00:20	88.027%	180.800	66.930	889.900	893.200	0.000	47980.000	63810.000
3	00:00:28	89.099%	177.400	63.500	883.100	871.800	0.000	47210.000	62820.000
x		87.737%	182.700	66.260	906.300	898.100	0.000	48070.000	63990.000
σ		1.528%	6.535	2.488	34.530	28.980	0.000	914.000	1266.000
%RSD		1.741	3.576	3.755	3.810	3.227	0.000	1.901	1.979

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:00:12	64800.000	112600.000	9691.000	0.000	53590.000	65170.000	65920.000	80.891%
2	00:00:20	63220.000	110300.000	9270.000	0.000	52400.000	63600.000	64400.000	80.941%
3	00:00:28	62370.000	108700.000	8972.000	0.000	51860.000	62720.000	63560.000	81.302%
x		63470.000	110500.000	9311.000	0.000	52620.000	63830.000	64630.000	81.045%
σ		1232.000	1959.000	361.100	0.000	886.600	1240.000	1198.000	0.225%
%RSD		1.941	1.773	3.879	0.000	1.685	1.943	1.853	0.277

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:00:12	1273.000	727.500	457.300	8114.000	551800.000	584200.000	652.300	871.000
2	00:00:20	1223.000	718.100	455.000	7962.000	548000.000	580600.000	640.800	848.000
3	00:00:28	1218.000	722.200	454.900	7850.000	547900.000	578200.000	643.700	844.600
x		1238.000	722.600	455.700	7975.000	549200.000	581000.000	645.600	854.600
σ		30.040	4.739	1.353	132.400	2233.000	3021.000	5.963	14.360
%RSD		2.426	0.656	0.297	1.660	0.407	0.520	0.924	1.681

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:00:12	1016.000	1047.000	6599.000	6684.000	215.400	22.210	23.980	0.000
2	00:00:20	1004.000	1029.000	6575.000	6655.000	215.700	21.920	29.950	0.000
3	00:00:28	1002.000	1023.000	6534.000	6569.000	216.800	22.120	29.670	0.000
x		1007.000	1033.000	6569.000	6636.000	215.900	22.080	27.870	0.000
σ		7.767	12.740	33.090	59.710	0.748	0.148	3.368	0.000
%RSD		0.771	1.233	0.504	0.900	0.346	0.671	12.090	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:00:12	1378.000	0.000	1086.000	1094.000	66.664%	52.010	53.540	56.710
2	00:00:20	1379.000	0.000	1073.000	1084.000	66.850%	51.070	52.270	57.200
3	00:00:28	1356.000	0.000	1057.000	1063.000	67.410%	48.880	50.640	57.290
x		1371.000	0.000	1072.000	1080.000	66.975%	50.650	52.150	57.070
σ		13.280	0.000	14.660	15.770	0.388%	1.605	1.455	0.312
%RSD		0.969	0.000	1.368	1.460	0.580	3.169	2.790	0.547

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:00:12	88.970	65.471%	1966.000	376.900	369.800	4383.000	4369.000	84.297%
2	00:00:20	85.540	65.818%	1957.000	378.900	364.600	4385.000	4364.000	83.266%
3	00:00:28	84.220	67.441%	1893.000	369.500	359.200	4310.000	4267.000	82.903%
x		86.240	66.243%	1939.000	375.100	364.500	4360.000	4333.000	83.489%
σ		2.449	1.052%	39.590	4.929	5.272	42.860	57.350	0.723%
%RSD		2.839	1.588	2.042	1.314	1.446	0.983	1.323	0.866

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	00:00:12	51.160	51.460	1028.000	966.900	1002.000	67.413%
2	00:00:20	50.840	51.220	1025.000	953.900	996.000	66.488%
3	00:00:28	49.870	49.660	1006.000	930.100	971.100	67.874%
x		50.620	50.780	1019.000	950.300	989.600	67.258%
σ		0.676	0.979	11.760	18.660	16.290	0.706%
%RSD		1.335	1.927	1.153	1.964	1.646	1.050

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User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:04:51	92.253%	109.700	5.973	36.380	36.680	0.000	135.900	10650.000
2	00:04:59	94.932%	104.100	5.538	35.950	35.540	0.000	115.000	10200.000
3	00:05:07	96.461%	104.800	5.341	33.410	33.490	0.000	111.700	10090.000
x		94.549%	106.200	5.617	35.250	35.240	0.000	120.900	10310.000
σ		2.130%	3.073	0.324	1.606	1.620	0.000	13.110	298.100
%RSD		2.253	2.894	5.760	4.555	4.597	0.000	10.850	2.891

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:04:51	10610.000	61030.000	9413.000	0.000	8057.000	25150.000	23640.000	80.752%
2	00:04:59	10150.000	58500.000	8934.000	0.000	7699.000	23750.000	22470.000	82.588%
3	00:05:07	10050.000	57840.000	8808.000	0.000	7619.000	23900.000	22310.000	82.912%
x		10270.000	59120.000	9052.000	0.000	7792.000	24270.000	22810.000	82.084%
σ		296.500	1681.000	319.300	0.000	233.600	771.300	725.200	1.165%
%RSD		2.887	2.843	3.527	0.000	2.997	3.178	3.180	1.419

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:04:51	433.100	129.600	95.400	2522.000	148400.000	147700.000	72.850	150.500
2	00:04:59	410.300	129.000	93.520	2415.000	147000.000	146300.000	71.150	149.100
3	00:05:07	409.200	128.800	94.390	2397.000	148900.000	147100.000	71.310	141.600
x		417.600	129.100	94.430	2445.000	148100.000	147000.000	71.770	147.100
σ		13.470	0.445	0.940	67.400	947.200	717.100	0.937	4.818
%RSD		3.227	0.344	0.996	2.757	0.640	0.488	1.306	3.276

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:04:51	177.400	184.800	762.500	759.200	52.460	4.511	6.712	0.000
2	00:04:59	176.400	184.400	756.600	746.300	51.510	7.346	2.613	0.000
3	00:05:07	181.000	187.400	772.000	768.500	51.890	6.872	2.398	0.000
x		178.300	185.500	763.700	758.000	51.950	6.243	3.908	0.000
σ		2.413	1.668	7.743	11.170	0.474	1.518	2.431	0.000
%RSD		1.353	0.899	1.014	1.473	0.911	24.320	62.200	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:04:51	133.900	0.000	32.490	33.970	72.810%	0.431	0.528	3.162
2	00:04:59	133.700	0.000	32.460	33.040	73.387%	0.469	0.476	2.588
3	00:05:07	136.900	0.000	34.220	33.900	74.258%	0.535	0.357	2.343
x		134.800	0.000	33.060	33.640	73.485%	0.479	0.454	2.697
σ		1.812	0.000	1.008	0.518	0.729%	0.052	0.088	0.420
%RSD		1.344	0.000	3.049	1.540	0.992	10.920	19.310	15.580

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:04:51	2.663	69.469%	58.110	3.990	3.676	765.600	759.300	80.051%
2	00:04:59	3.062	70.869%	57.940	3.617	3.220	749.900	754.600	82.070%
3	00:05:07	2.634	71.902%	56.460	3.627	3.402	757.600	767.600	80.198%
x		2.786	70.747%	57.510	3.745	3.433	757.700	760.500	80.773%
σ		0.239	1.221%	0.907	0.213	0.230	7.832	6.563	1.126%
%RSD		8.593	1.726	1.578	5.676	6.685	1.034	0.863	1.394

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	00:04:51	1.596	1.599	145.700	133.700	140.000	74.035%
2	00:04:59	1.671	1.566	145.700	133.000	138.200	74.133%
3	00:05:07	1.483	1.554	146.200	134.400	139.300	73.286%
x		1.583	1.573	145.900	133.700	139.200	73.818%
σ		0.095	0.024	0.325	0.704	0.922	0.463%
%RSD		5.978	1.498	0.223	0.527	0.662	0.627

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User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:09:28	95.864%	164.600	7.249	44.560	44.890	0.000	180.000	13710.000
2	00:09:37	97.783%	157.700	6.790	41.460	41.680	0.000	159.500	13100.000
3	00:09:44	98.093%	156.800	6.233	44.680	41.840	0.000	160.500	13070.000
x		97.247%	159.700	6.757	43.570	42.800	0.000	166.600	13300.000
σ		1.207%	4.266	0.509	1.826	1.810	0.000	11.550	361.500
%RSD		1.242	2.671	7.529	4.191	4.230	0.000	6.929	2.719

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:09:28	13660.000	82990.000	9639.000	0.000	9519.000	35410.000	33180.000	82.220%
2	00:09:37	12970.000	79090.000	9099.000	0.000	9091.000	33550.000	31790.000	84.130%
3	00:09:44	12970.000	78660.000	9027.000	0.000	9039.000	33380.000	31680.000	83.825%
x		13200.000	80250.000	9255.000	0.000	9216.000	34120.000	32220.000	83.392%
σ		397.600	2385.000	334.600	0.000	263.800	1124.000	839.100	1.026%
%RSD		3.012	2.972	3.615	0.000	2.862	3.293	2.604	1.230

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:09:28	479.700	146.500	99.350	3954.000	150600.000	148800.000	99.740	176.000
2	00:09:37	461.300	146.900	98.410	3791.000	151800.000	150100.000	100.400	178.700
3	00:09:44	456.000	150.100	102.000	3784.000	154000.000	152300.000	99.230	178.800
x		465.700	147.800	99.910	3843.000	152100.000	150400.000	99.800	177.800
σ		12.430	1.977	1.844	96.110	1712.000	1765.000	0.607	1.581
%RSD		2.669	1.337	1.845	2.501	1.125	1.174	0.608	0.889

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:09:28	227.200	230.200	871.000	885.500	45.660	9.640	16.170	0.000
2	00:09:37	222.200	230.300	868.600	880.700	47.600	12.480	6.273	0.000
3	00:09:44	226.100	234.600	873.100	893.400	46.160	12.000	14.350	0.000
x		225.200	231.700	870.900	886.500	46.470	11.370	12.260	0.000
σ		2.597	2.532	2.249	6.421	1.003	1.520	5.267	0.000
%RSD		1.154	1.093	0.258	0.724	2.158	13.370	42.950	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:09:28	251.300	0.000	19.540	20.860	70.817%	0.836	0.713	5.037
2	00:09:37	258.800	0.000	21.150	20.320	70.921%	0.754	0.713	4.222
3	00:09:44	257.500	0.000	20.180	20.200	71.692%	0.869	0.701	3.356
x		255.800	0.000	20.290	20.460	71.143%	0.820	0.709	4.205
σ		4.023	0.000	0.810	0.348	0.478%	0.059	0.007	0.841
%RSD		1.573	0.000	3.991	1.701	0.672	7.231	0.990	20.000

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:09:28	4.102	66.900%	60.690	2.997	2.914	1216.000	1214.000	76.447%
2	00:09:37	4.125	69.574%	59.730	3.102	2.794	1203.000	1202.000	75.824%
3	00:09:44	3.415	69.180%	59.230	3.262	3.026	1222.000	1221.000	75.766%
x		3.881	68.551%	59.880	3.120	2.911	1214.000	1212.000	76.012%
σ		0.403	1.444%	0.742	0.133	0.116	9.624	9.217	0.377%
%RSD		10.390	2.106	1.239	4.274	3.982	0.793	0.760	0.497

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	00:09:28	2.356	2.535	207.400	191.500	200.100	61.209%
2	00:09:37	2.444	2.287	212.200	188.400	199.300	59.266%
3	00:09:44	2.340	2.392	213.100	189.000	200.600	58.719%
x		2.380	2.405	210.900	189.600	200.000	59.732%
σ		0.056	0.125	3.080	1.668	0.667	1.309%
%RSD		2.352	5.182	1.460	0.880	0.334	2.191

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User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:14:04	96.217%	71.090	5.307	24.050	23.830	0.000	42.900	6506.000
2	00:14:12	98.099%	68.710	5.124	24.330	23.390	0.000	34.840	6362.000
3	00:14:20	96.656%	69.480	5.029	23.080	23.570	0.000	38.520	6390.000
x		96.991%	69.760	5.153	23.820	23.600	0.000	38.750	6420.000
σ		0.985%	1.214	0.141	0.655	0.223	0.000	4.036	76.220
%RSD		1.015	1.741	2.738	2.749	0.944	0.000	10.410	1.187

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:14:04	6512.000	41620.000	6792.000	0.000	6311.000	6694.000	6201.000	81.540%
2	00:14:12	6359.000	40570.000	6593.000	0.000	6160.000	6628.000	6119.000	83.081%
3	00:14:20	6368.000	40640.000	6631.000	0.000	6189.000	6512.000	6126.000	82.475%
x		6413.000	40950.000	6672.000	0.000	6220.000	6612.000	6149.000	82.365%
σ		86.090	582.800	105.300	0.000	80.360	92.150	45.160	0.776%
%RSD		1.342	1.423	1.578	0.000	1.292	1.394	0.735	0.943

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:14:04	326.300	99.580	89.920	4555.000	149500.000	148400.000	75.520	118.500
2	00:14:12	324.200	99.960	87.130	4479.000	149600.000	147900.000	76.320	116.600
3	00:14:20	325.300	102.900	94.310	4509.000	152700.000	150800.000	79.060	119.700
x		325.300	100.800	90.450	4514.000	150600.000	149000.000	76.970	118.300
σ		1.070	1.827	3.620	38.510	1830.000	1554.000	1.859	1.559
%RSD		0.329	1.812	4.002	0.853	1.215	1.043	2.415	1.318

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:14:04	79.680	81.960	476.900	477.700	50.070	3.477	9.711	0.000
2	00:14:12	78.180	81.100	484.500	483.200	49.690	4.031	1.047	0.000
3	00:14:20	80.380	82.940	492.200	490.800	47.910	4.001	8.092	0.000
x		79.420	82.000	484.500	483.900	49.220	3.836	6.284	0.000
σ		1.124	0.922	7.641	6.618	1.155	0.311	4.606	0.000
%RSD		1.415	1.125	1.577	1.368	2.347	8.111	73.310	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:14:04	57.130	0.000	18.280	19.060	71.819%	0.154	0.085	2.187
2	00:14:12	59.540	0.000	19.120	18.890	73.198%	0.160	0.146	2.546
3	00:14:20	60.190	0.000	18.000	18.980	74.468%	0.247	0.172	3.189
x		58.950	0.000	18.470	18.980	73.162%	0.187	0.134	2.641
σ		1.615	0.000	0.586	0.085	1.325%	0.052	0.045	0.508
%RSD		2.740	0.000	3.176	0.450	1.811	27.810	33.210	19.220

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:14:04	2.019	68.829%	43.550	2.026	2.169	675.300	668.000	77.614%
2	00:14:12	1.966	70.717%	42.590	2.186	2.086	668.900	669.600	78.718%
3	00:14:20	1.708	72.078%	42.790	1.692	2.000	691.300	678.000	81.050%
x		1.897	70.542%	42.980	1.968	2.085	678.500	671.900	79.127%
σ		0.166	1.631%	0.511	0.252	0.084	11.580	5.379	1.754%
%RSD		8.762	2.313	1.189	12.790	4.031	1.707	0.801	2.217

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	00:14:04	0.975	0.913	104.800	95.150	99.340	70.361%
2	00:14:12	0.893	0.931	106.300	96.510	100.500	71.372%
3	00:14:20	0.905	0.904	103.800	93.150	99.040	73.467%
x		0.924	0.916	105.000	94.930	99.620	71.733%
σ		0.045	0.014	1.275	1.687	0.754	1.584%
%RSD		4.827	1.519	1.214	1.777	0.757	2.209

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User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:18:40	96.223%	63.540	4.843	22.590	23.470	0.000	20.370	5552.000
2	00:18:48	96.607%	61.410	4.928	21.750	22.510	0.000	13.680	5437.000
3	00:18:56	95.225%	62.140	5.174	23.760	23.110	0.000	10.440	5419.000
x		96.018%	62.360	4.982	22.700	23.030	0.000	14.830	5469.000
σ		0.714%	1.082	0.172	1.012	0.482	0.000	5.062	72.310
%RSD		0.743	1.735	3.452	4.457	2.092	0.000	34.140	1.322

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:18:40	5552.000	39190.000	6996.000	0.000	6343.000	5404.000	5238.000	80.599%
2	00:18:48	5445.000	38280.000	6832.000	0.000	6213.000	5485.000	5105.000	81.606%
3	00:18:56	5366.000	38230.000	6875.000	0.000	6151.000	5261.000	5103.000	82.487%
x		5454.000	38570.000	6901.000	0.000	6236.000	5383.000	5149.000	81.564%
σ		93.040	542.300	84.770	0.000	98.080	113.400	77.300	0.945%
%RSD		1.706	1.406	1.228	0.000	1.573	2.107	1.501	1.159

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:18:40	307.700	107.000	88.030	4163.000	147300.000	145700.000	77.140	117.300
2	00:18:48	301.400	106.300	88.560	4057.000	149600.000	147000.000	75.270	120.800
3	00:18:56	303.800	109.300	88.740	4058.000	149800.000	149000.000	75.380	119.600
x		304.300	107.500	88.440	4093.000	148900.000	147200.000	75.930	119.200
σ		3.189	1.595	0.372	60.700	1385.000	1661.000	1.049	1.756
%RSD		1.048	1.483	0.421	1.483	0.930	1.128	1.382	1.474

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:18:40	75.500	75.460	465.900	468.500	54.050	3.469	14.580	0.000
2	00:18:48	74.310	78.120	475.100	475.700	54.370	4.029	5.864	0.000
3	00:18:56	75.700	77.670	476.200	467.000	55.670	4.398	4.456	0.000
x		75.170	77.080	472.400	470.400	54.700	3.965	8.299	0.000
σ		0.753	1.427	5.676	4.639	0.862	0.468	5.483	0.000
%RSD		1.002	1.851	1.201	0.986	1.576	11.800	66.070	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:18:40	53.870	0.000	24.170	25.730	72.671%	0.122	0.127	2.762
2	00:18:48	55.120	0.000	25.060	25.470	74.158%	0.247	0.085	1.840
3	00:18:56	56.270	0.000	24.860	24.770	74.829%	0.151	0.143	1.837
x		55.090	0.000	24.690	25.320	73.886%	0.173	0.118	2.146
σ		1.203	0.000	0.467	0.499	1.104%	0.066	0.030	0.533
%RSD		2.184	0.000	1.889	1.971	1.495	37.920	25.520	24.830

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:18:40	2.032	70.502%	50.370	2.527	2.411	475.300	486.900	80.190%
2	00:18:48	2.184	72.149%	51.550	2.461	2.484	483.500	489.900	81.095%
3	00:18:56	2.050	71.442%	51.080	2.364	2.263	480.800	492.400	81.945%
x		2.088	71.364%	51.000	2.451	2.386	479.900	489.700	81.077%
σ		0.083	0.827%	0.594	0.082	0.113	4.174	2.769	0.877%
%RSD		3.974	1.158	1.164	3.357	4.714	0.870	0.566	1.082

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	00:18:40	0.768	0.844	92.390	84.370	87.830	75.109%
2	00:18:48	0.813	0.803	92.540	84.330	87.580	76.651%
3	00:18:56	0.871	0.919	92.210	83.610	87.180	77.354%
x		0.818	0.856	92.380	84.100	87.530	76.371%
σ		0.052	0.059	0.162	0.429	0.328	1.148%
%RSD		6.307	6.850	0.175	0.510	0.375	1.503

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User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:23:17	92.423%	62.450	3.742	24.800	22.330	0.000	-6.889	5589.000
2	00:23:25	94.932%	60.360	4.374	21.800	21.470	0.000	-17.200	5533.000
3	00:23:33	93.861%	61.670	4.059	22.900	21.720	0.000	-17.720	5461.000
x		93.739%	61.490	4.058	23.170	21.840	0.000	-13.930	5528.000
σ		1.259%	1.055	0.316	1.516	0.443	0.000	6.108	64.410
%RSD		1.343	1.716	7.788	6.546	2.027	0.000	43.830	1.165

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:23:17	5587.000	35950.000	7290.000	0.000	5720.000	4976.000	4666.000	78.838%
2	00:23:25	5495.000	35240.000	7036.000	0.000	5586.000	4738.000	4529.000	80.418%
3	00:23:33	5417.000	34940.000	6992.000	0.000	5540.000	4633.000	4545.000	80.163%
x		5500.000	35380.000	7106.000	0.000	5615.000	4782.000	4580.000	79.806%
σ		84.990	516.500	160.600	0.000	93.070	175.500	74.930	0.848%
%RSD		1.545	1.460	2.260	0.000	1.658	3.670	1.636	1.063

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:23:17	290.000	90.530	76.460	3493.000	127200.000	125700.000	65.400	102.800
2	00:23:25	282.700	84.130	68.030	3403.000	115200.000	113100.000	58.530	92.330
3	00:23:33	288.000	97.850	80.040	3396.000	137900.000	136200.000	70.660	110.200
x		286.900	90.840	74.850	3431.000	126800.000	125000.000	64.860	101.800
σ		3.748	6.863	6.165	54.140	11370.000	11570.000	6.082	8.971
%RSD		1.306	7.555	8.237	1.578	8.968	9.260	9.377	8.815

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:23:17	62.290	64.930	411.700	419.700	41.500	2.027	5.001	0.000
2	00:23:25	55.760	54.860	372.100	376.200	38.030	2.176	3.135	0.000
3	00:23:33	66.810	67.090	449.500	460.000	45.540	3.128	6.974	0.000
x		61.620	62.290	411.100	418.600	41.690	2.444	5.037	0.000
σ		5.555	6.527	38.680	41.900	3.759	0.597	1.920	0.000
%RSD		9.015	10.480	9.408	10.010	9.016	24.450	38.110	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:23:17	47.370	0.000	17.760	16.820	72.035%	0.184	0.202	2.411
2	00:23:25	42.320	0.000	15.360	14.830	74.502%	0.165	0.079	1.348
3	00:23:33	54.900	0.000	18.450	19.020	69.954%	0.229	0.107	1.887
x		48.200	0.000	17.190	16.890	72.164%	0.193	0.130	1.882
σ		6.336	0.000	1.623	2.098	2.277%	0.033	0.064	0.532
%RSD		13.150	0.000	9.445	12.420	3.155	17.000	49.780	28.260

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:23:17	1.729	68.187%	44.640	1.680	2.028	430.600	437.200	76.894%
2	00:23:25	1.438	72.818%	37.750	1.292	1.532	366.200	380.900	79.921%
3	00:23:33	2.027	68.670%	47.990	2.108	2.078	471.000	476.500	75.963%
x		1.731	69.892%	43.460	1.693	1.880	422.600	431.500	77.593%
σ		0.295	2.546%	5.220	0.408	0.302	52.850	48.060	2.069%
%RSD		17.010	3.642	12.010	24.120	16.050	12.500	11.140	2.667

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	00:23:17	0.770	0.769	80.830	73.590	76.580	71.504%
2	00:23:25	0.720	0.700	65.610	59.160	61.840	79.392%
3	00:23:33	1.008	0.891	91.120	82.550	86.660	65.289%
x		0.833	0.787	79.190	71.770	75.030	72.061%
σ		0.154	0.097	12.830	11.800	12.480	7.068%
%RSD		18.480	12.300	16.210	16.440	16.630	9.808

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User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:27:55	90.779%	0.865	0.018	1.863	1.545	0.000	-235.900	1.897
2	00:28:03	92.107%	0.500	0.017	1.199	1.554	0.000	-234.300	1.574
3	00:28:11	89.160%	1.128	0.012	1.363	1.447	0.000	-238.000	1.767
x		90.682%	0.831	0.015	1.475	1.515	0.000	-236.100	1.746
σ		1.476%	0.315	0.003	0.346	0.059	0.000	1.837	0.163
%RSD		1.628	37.950	21.930	23.460	3.916	0.000	0.778	9.315

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:27:55	1.130	8.895	-476.200	0.000	35.660	16.640	-2.517	73.086%
2	00:28:03	1.342	8.528	-479.100	0.000	35.650	16.890	7.068	72.709%
3	00:28:11	1.409	8.032	-476.900	0.000	30.870	28.160	-0.755	72.654%
x		1.294	8.485	-477.400	0.000	34.060	20.560	1.265	72.817%
σ		0.146	0.434	1.530	0.000	2.763	6.582	5.102	0.235%
%RSD		11.260	5.109	0.321	0.000	8.111	32.010	403.300	0.323

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:27:55	0.517	0.903	0.149	1.202	9.559	12.850	0.021	0.880
2	00:28:03	0.310	0.886	0.071	1.148	8.661	12.850	-0.005	1.248
3	00:28:11	0.064	1.091	0.102	1.047	6.579	3.791	0.021	1.043
x		0.297	0.960	0.107	1.133	8.267	9.831	0.013	1.057
σ		0.227	0.114	0.039	0.079	1.529	5.230	0.015	0.185
%RSD		76.260	11.890	36.340	6.939	18.490	53.200	120.000	17.480

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:27:55	0.344	0.133	3.211	3.798	0.038	-0.106	2.451	0.000
2	00:28:03	0.265	0.132	2.180	2.531	0.175	-0.106	1.874	0.000
3	00:28:11	0.227	0.155	2.135	2.087	0.171	-0.106	0.201	0.000
x		0.278	0.140	2.509	2.805	0.128	-0.106	1.509	0.000
σ		0.059	0.013	0.609	0.888	0.078	0.000	1.169	0.000
%RSD		21.370	9.288	24.280	31.660	61.090	0.000	77.440	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:27:55	0.029	60.417%	0.043	0.044	65.796%	0.004	-0.019	-0.088
2	00:28:03	0.087	61.076%	0.043	0.029	66.647%	-0.029	-0.008	0.116
3	00:28:11	-0.002	63.359%	0.062	0.014	67.894%	-0.013	-0.025	-0.050
x		0.038	61.617%	0.050	0.029	66.779%	-0.013	-0.017	-0.008
σ		0.045	1.544%	0.011	0.015	1.055%	0.016	0.009	0.108
%RSD		120.200	2.506	22.460	52.080	1.580	131.100	48.960	1439.000

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:27:55	0.024	62.978%	0.519	0.084	0.039	0.052	-0.033	66.957%
2	00:28:03	0.010	63.849%	0.341	0.121	0.070	0.051	0.065	67.738%
3	00:28:11	0.035	66.053%	0.393	0.167	0.051	-0.039	-0.033	69.432%
x		0.023	64.294%	0.418	0.124	0.053	0.021	-0.000	68.042%
σ		0.013	1.585%	0.091	0.042	0.015	0.052	0.056	1.265%
%RSD		53.850	2.466	21.880	33.850	29.010	247.800	129100.000	1.859

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	00:27:55	0.011	0.005	0.047	0.108	0.097	59.901%
2	00:28:03	0.011	0.009	0.110	0.082	0.100	61.058%
3	00:28:11	0.006	0.006	0.078	0.041	0.078	63.849%
x		0.009	0.006	0.078	0.077	0.092	61.602%
σ		0.003	0.002	0.031	0.034	0.012	2.030%
%RSD		34.960	31.630	40.000	43.890	12.920	3.295

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User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:36:14	70.934%	99.620	104.100	94.590	97.650	0.000	49900.000	49770.000
2	00:36:22	70.563%	101.800	107.100	102.600	99.490	0.000	51120.000	51260.000
3	00:36:30	72.437%	98.980	102.900	98.960	96.510	0.000	49860.000	49940.000
x		71.311%	100.125%	104.720%	98.724%	97.883%	0.000	100.584%	100.646%
σ		0.992%	n/a	n/a	n/a	n/a	0.000	n/a	n/a
%RSD		1.391	1.465	2.064	4.073	1.535	0.000	1.423	1.616

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:36:14	49730.000	540.100	4791.000	0.000	49720.000	48850.000	46520.000	70.773%
2	00:36:22	51330.000	558.800	4977.000	0.000	51000.000	50570.000	47360.000	70.885%
3	00:36:30	49900.000	544.600	4868.000	0.000	49760.000	48620.000	46480.000	72.193%
x		100.646%	109.561%	97.576%	0.000	100.320%	98.692%	93.568%	71.284%
σ		n/a	n/a	n/a	0.000	n/a	n/a	n/a	0.789%
%RSD		1.748	1.781	1.911	0.000	1.456	2.165	1.060	1.107

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:36:14	103.800	93.740	100.300	500.800	25440.000	25070.000	99.040	99.030
2	00:36:22	107.300	97.340	101.700	510.100	25670.000	25160.000	100.900	100.300
3	00:36:30	105.200	101.000	101.900	497.700	26240.000	25250.000	103.300	100.900
x		105.434%	97.356%	101.273%	100.571%	103.124%	100.638%	101.090%	100.065%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		1.700	3.715	0.865	1.285	1.595	0.349	2.128	0.950

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:36:14	100.800	104.000	103.300	105.100	100.400	92.580	96.470	0.000
2	00:36:22	102.000	102.000	101.900	99.160	98.300	89.800	93.760	0.000
3	00:36:30	101.600	103.600	98.400	97.220	101.300	103.100	86.340	0.000
x		101.498%	103.230%	101.203%	100.505%	100.010%	95.172%	92.191%	0.000
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.000
%RSD		0.605	1.042	2.483	4.111	1.540	7.395	5.688	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:36:14	97.390	71.222%	104.700	104.400	71.448%	95.040	97.370	96.300
2	00:36:22	97.470	73.669%	102.600	105.800	73.088%	95.650	97.100	100.900
3	00:36:30	99.970	75.726%	100.700	103.800	75.392%	94.770	96.050	104.300
x		98.278%	73.539%	102.657%	104.651%	73.309%	95.156%	96.840%	100.489%
σ		n/a	2.255%	n/a	n/a	1.981%	n/a	n/a	n/a
%RSD		1.494	3.066	1.944	0.981	2.702	0.474	0.717	3.989

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:36:14	103.700	71.818%	99.750	100.600	98.760	98.670	100.200	78.417%
2	00:36:22	103.900	73.673%	101.100	101.000	100.400	96.540	101.700	80.664%
3	00:36:30	104.300	76.093%	100.600	101.500	100.100	94.050	99.810	83.334%
x		103.959%	73.861%	100.499%	101.002%	99.745%	96.420%	100.581%	80.805%
σ		n/a	2.143%	n/a	n/a	n/a	n/a	n/a	2.461%
%RSD		0.335	2.902	0.691	0.449	0.868	2.398	0.974	3.046

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	00:36:14	101.200	100.600	102.800	102.700	102.300	79.063%
2	00:36:22	98.930	100.600	101.900	100.500	101.200	80.557%
3	00:36:30	99.970	100.600	103.100	101.000	101.500	82.365%
x		100.028%	100.582%	102.601%	101.390%	101.678%	80.662%
σ		n/a	n/a	n/a	n/a	n/a	1.654%
%RSD		1.123	0.053	0.576	1.130	0.583	2.050

CCB5 10/10/2018 12:41:48 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:40:54	79.829%	1.703	-0.023	1.240	1.095	0.000	-189.800	11.810
2	00:41:02	80.401%	1.480	0.049	1.221	1.451	0.000	-190.200	11.870
3	00:41:09	80.011%	1.160	0.001	1.233	1.276	0.000	-191.800	10.980
x		80.080%	1.447	0.009	1.232	1.274	0.000	-190.600	11.550
σ		0.292%	0.273	0.037	0.010	0.178	0.000	1.043	0.498
%RSD		0.365	18.840	410.700	0.790	13.950	0.000	0.547	4.312

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:40:54	11.660	4.294	-102.900	0.000	57.010	19.740	16.750	81.898%
2	00:41:02	11.970	4.392	-107.600	0.000	56.800	19.850	12.130	81.720%
3	00:41:09	11.180	4.485	-116.800	0.000	54.680	11.370	5.467	82.008%
x		11.600	4.391	-109.100	0.000	56.170	16.990	11.450	81.875%
σ		0.400	0.096	7.078	0.000	1.289	4.862	5.673	0.145%
%RSD		3.449	2.177	6.488	0.000	2.295	28.620	49.540	0.177

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:40:54	-0.108	0.116	-0.062	0.456	10.900	12.350	0.005	0.823
2	00:41:02	0.049	0.065	0.005	0.480	10.430	1.347	0.027	0.492
3	00:41:09	-0.015	0.048	-0.036	0.528	10.070	7.485	0.016	0.602
x		-0.025	0.076	-0.031	0.488	10.470	7.062	0.016	0.639
σ		0.079	0.036	0.034	0.037	0.414	5.516	0.011	0.168
%RSD		316.800	46.680	110.400	7.561	3.955	78.100	70.230	26.380

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:40:54	-0.023	0.020	0.029	0.423	0.100	0.107	1.143	0.000
2	00:41:02	0.015	0.114	0.433	0.078	0.166	-0.106	1.578	0.000
3	00:41:09	-0.000	0.183	-0.130	-0.125	0.118	0.099	1.104	0.000
x		-0.003	0.106	0.111	0.126	0.128	0.033	1.275	0.000
σ		0.019	0.082	0.290	0.277	0.034	0.121	0.263	0.000
%RSD		653.600	77.730	261.700	220.800	26.830	361.900	20.620	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:40:54	-0.006	72.938%	0.258	0.328	77.595%	0.033	0.009	-0.031
2	00:41:02	0.041	75.217%	0.289	0.333	78.242%	0.019	0.027	0.045
3	00:41:09	0.040	76.613%	0.411	0.261	78.846%	-0.009	-0.010	0.031
x		0.025	74.923%	0.319	0.307	78.228%	0.014	0.009	0.015
σ		0.027	1.855%	0.081	0.040	0.626%	0.021	0.019	0.041
%RSD		108.000	2.476	25.420	13.010	0.800	149.300	217.500	273.700

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:40:54	0.031	75.682%	0.138	0.220	0.132	0.037	0.009	80.563%
2	00:41:02	0.008	77.222%	-0.054	0.227	0.182	-0.039	0.008	80.248%
3	00:41:09	0.029	78.719%	-0.058	0.127	0.217	-0.039	0.169	80.482%
x		0.023	77.207%	0.009	0.191	0.177	-0.014	0.062	80.431%
σ		0.013	1.518%	0.112	0.056	0.043	0.044	0.093	0.164%
%RSD		55.530	1.967	1291.000	29.280	24.080	312.400	149.800	0.203

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	00:40:54	0.025	0.025	0.026	0.007	0.033	75.626%
2	00:41:02	0.021	0.034	-0.010	0.062	0.044	74.555%
3	00:41:09	0.021	0.038	0.076	0.033	0.062	73.623%
x		0.022	0.032	0.031	0.034	0.046	74.601%
σ		0.002	0.007	0.043	0.028	0.015	1.002%
%RSD		9.498	20.860	141.900	81.870	31.850	1.344

LCS 180-259134/2-A 10/10/2018 12:46:27 AM

User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:45:33	89.842%	0.179	49.500	955.500	945.100	0.000	55880.000	53990.000
2	00:45:41	90.402%	1.222	49.690	968.300	954.700	0.000	55710.000	54060.000
3	00:45:49	89.525%	1.297	50.990	961.000	958.700	0.000	55130.000	53550.000
x		89.923%	0.899	50.060	961.600	952.900	0.000	55570.000	53870.000
σ		0.444%	0.625	0.807	6.428	7.001	0.000	394.700	281.000
%RSD		0.494	69.490	1.611	0.668	0.735	0.000	0.710	0.522

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:45:33	53840.000	13040.000	532.700	0.000	53360.000	52260.000	49210.000	73.318%
2	00:45:41	53850.000	13010.000	518.900	0.000	52910.000	52550.000	49250.000	73.740%
3	00:45:49	53140.000	12910.000	502.200	0.000	52600.000	52440.000	49070.000	74.532%
x		53610.000	12990.000	517.900	0.000	52960.000	52420.000	49170.000	73.863%
σ		406.100	67.280	15.290	0.000	377.500	145.800	96.750	0.616%
%RSD		0.758	0.518	2.951	0.000	0.713	0.278	0.197	0.835

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:45:33	1040.000	443.100	186.300	521.100	10130.000	10800.000	492.500	482.900
2	00:45:41	1039.000	457.400	192.500	523.800	10240.000	10510.000	494.000	491.300
3	00:45:49	1035.000	450.200	190.700	520.400	10200.000	10320.000	486.000	475.600
x		1038.000	450.200	189.900	521.800	10190.000	10540.000	490.800	483.300
σ		2.460	7.140	3.174	1.820	55.430	244.600	4.259	7.883
%RSD		0.237	1.586	1.672	0.349	0.544	2.320	0.868	1.631

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:45:33	250.000	257.200	520.100	510.400	40.230	9.514	9.084	0.000
2	00:45:41	251.500	256.700	508.900	513.700	41.920	8.371	7.838	0.000
3	00:45:49	247.200	250.400	505.400	507.400	41.220	11.690	10.650	0.000
x		249.600	254.800	511.500	510.500	41.120	9.859	9.191	0.000
σ		2.218	3.795	7.687	3.122	0.850	1.686	1.410	0.000
%RSD		0.889	1.490	1.503	0.612	2.067	17.100	15.340	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:45:33	974.600	62.257%	1092.000	1090.000	65.205%	54.210	54.970	53.410
2	00:45:41	979.600	63.627%	1088.000	1084.000	66.486%	52.670	54.270	55.860
3	00:45:49	979.500	65.617%	1078.000	1069.000	68.064%	51.860	52.800	51.590
x		977.900	63.833%	1086.000	1081.000	66.585%	52.910	54.010	53.620
σ		2.857	1.689%	7.006	10.340	1.432%	1.193	1.111	2.141
%RSD		0.292	2.647	0.645	0.957	2.151	2.254	2.057	3.992

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:45:33	85.990	63.796%	2065.000	517.100	505.300	1942.000	1940.000	71.311%
2	00:45:41	86.900	65.284%	2068.000	520.000	515.400	1967.000	1950.000	73.463%
3	00:45:49	84.730	67.122%	2020.000	512.500	501.000	1908.000	1917.000	74.369%
x		85.870	65.400%	2051.000	516.500	507.200	1939.000	1936.000	73.048%
σ		1.092	1.666%	26.790	3.779	7.413	29.600	16.880	1.571%
%RSD		1.271	2.548	1.306	0.732	1.461	1.526	0.872	2.150

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	00:45:33	53.090	52.450	23.000	21.500	22.350	65.729%
2	00:45:41	51.770	51.840	22.380	22.070	21.900	68.888%
3	00:45:49	51.100	50.690	21.440	21.540	22.000	71.081%
x		51.990	51.660	22.270	21.700	22.080	68.566%
σ		1.014	0.895	0.785	0.319	0.236	2.690%
%RSD		1.951	1.732	3.524	1.468	1.068	3.924

LCSD 180-259134/3-A 10/10/2018 12:51:03 AM

User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:50:11	91.821%	0.610	49.140	947.500	934.600	0.000	54980.000	53240.000
2	00:50:19	90.505%	1.046	49.260	960.200	950.600	0.000	55010.000	53340.000
3	00:50:27	91.382%	1.332	48.270	946.100	937.800	0.000	55050.000	53430.000
x		91.236%	0.996	48.890	951.200	941.000	0.000	55010.000	53340.000
σ		0.670%	0.364	0.542	7.769	8.462	0.000	36.930	97.570
%RSD		0.734	36.520	1.109	0.817	0.899	0.000	0.067	0.183

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:50:11	53010.000	12810.000	438.400	0.000	52500.000	52170.000	48890.000	74.443%
2	00:50:19	53170.000	12850.000	438.300	0.000	52650.000	52190.000	48590.000	74.571%
3	00:50:27	53230.000	12900.000	434.600	0.000	52590.000	51710.000	49010.000	74.208%
x		53140.000	12850.000	437.100	0.000	52580.000	52020.000	48830.000	74.407%
σ		112.000	44.090	2.187	0.000	74.760	267.100	220.000	0.184%
%RSD		0.211	0.343	0.500	0.000	0.142	0.513	0.451	0.247

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:50:11	1026.000	443.900	184.900	520.000	10010.000	10260.000	484.000	479.000
2	00:50:19	1027.000	448.600	190.500	520.700	10090.000	10440.000	487.800	479.600
3	00:50:27	1038.000	463.100	195.500	524.300	10260.000	10660.000	496.400	487.100
x		1030.000	451.900	190.300	521.600	10120.000	10450.000	489.400	481.900
σ		6.659	9.986	5.304	2.325	128.600	204.200	6.347	4.522
%RSD		0.646	2.210	2.787	0.446	1.271	1.954	1.297	0.939

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:50:11	247.600	252.100	494.800	497.600	41.300	14.250	10.280	0.000
2	00:50:19	249.200	258.400	507.800	508.400	38.640	8.343	6.954	0.000
3	00:50:27	249.800	255.300	511.300	513.200	40.990	12.580	7.067	0.000
x		248.900	255.300	504.600	506.400	40.310	11.720	8.102	0.000
σ		1.099	3.162	8.679	7.971	1.454	3.046	1.891	0.000
%RSD		0.442	1.239	1.720	1.574	3.607	25.980	23.340	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:50:11	946.000	64.442%	1086.000	1074.000	67.121%	52.920	53.860	51.930
2	00:50:19	944.300	66.054%	1077.000	1069.000	67.623%	52.640	52.970	54.810
3	00:50:27	981.900	66.086%	1083.000	1082.000	68.824%	52.940	54.270	53.320
x		957.400	65.527%	1082.000	1075.000	67.856%	52.830	53.700	53.350
σ		21.240	0.940%	4.907	6.784	0.875%	0.168	0.662	1.438
%RSD		2.218	1.434	0.454	0.631	1.290	0.318	1.233	2.695

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:50:11	86.940	66.395%	2016.000	511.200	498.000	1893.000	1901.000	75.591%
2	00:50:19	84.280	66.243%	2055.000	513.400	512.700	1941.000	1931.000	75.682%
3	00:50:27	86.470	67.404%	2073.000	524.100	517.200	1983.000	1948.000	76.529%
x		85.900	66.681%	2048.000	516.200	509.300	1939.000	1927.000	75.934%
σ		1.421	0.631%	29.030	6.894	10.010	45.120	23.500	0.517%
%RSD		1.655	0.946	1.417	1.336	1.965	2.327	1.220	0.681

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	00:50:11	52.170	52.160	21.370	22.200	21.850	72.374%
2	00:50:19	52.580	52.300	22.150	22.160	22.080	73.775%
3	00:50:27	52.870	51.950	22.140	22.320	22.230	75.299%
x		52.540	52.140	21.880	22.230	22.050	73.816%
σ		0.354	0.174	0.449	0.085	0.193	1.463%
%RSD		0.673	0.333	2.050	0.380	0.876	1.981

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User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:54:46	93.532%	7.076	0.114	102.900	105.400	0.000	62110.000	1230.000
2	00:54:54	95.401%	7.036	0.042	105.000	103.000	0.000	62030.000	1213.000
3	00:55:02	96.266%	7.233	0.103	103.700	103.100	0.000	62020.000	1222.000
x		95.066%	7.115	0.086	103.900	103.800	0.000	62050.000	1222.000
σ		1.398%	0.104	0.039	1.026	1.329	0.000	51.600	8.552
%RSD		1.470	1.466	44.750	0.988	1.280	0.000	0.083	0.700

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:54:46	1226.000	79.560	23010.000	0.000	7666.000	6296.000	6240.000	76.447%
2	00:54:54	1217.000	79.750	22790.000	0.000	7626.000	6281.000	6212.000	77.016%
3	00:55:02	1216.000	79.050	22750.000	0.000	7585.000	6256.000	6262.000	77.341%
x		1220.000	79.460	22850.000	0.000	7625.000	6278.000	6238.000	76.935%
σ		5.329	0.361	142.500	0.000	40.400	20.010	25.130	0.452%
%RSD		0.437	0.454	0.624	0.000	0.530	0.319	0.403	0.588

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:54:46	6.671	2.495	1.699	864.200	7776.000	8165.000	5.929	4.554
2	00:54:54	7.749	3.009	1.835	893.900	8061.000	8639.000	6.509	5.933
3	00:55:02	8.145	2.967	1.972	883.900	8282.000	8789.000	6.606	5.975
x		7.522	2.824	1.835	880.700	8040.000	8531.000	6.348	5.487
σ		0.763	0.285	0.137	15.100	253.600	325.700	0.366	0.808
%RSD		10.140	10.100	7.439	1.715	3.154	3.817	5.773	14.730

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:54:46	21.610	23.070	21.720	22.500	305.700	0.573	7.705	0.000
2	00:54:54	21.830	21.930	24.120	21.210	309.200	0.783	2.269	0.000
3	00:55:02	23.470	23.180	21.800	27.620	314.700	0.329	8.336	0.000
x		22.300	22.720	22.550	23.780	309.900	0.562	6.103	0.000
σ		1.013	0.693	1.367	3.393	4.506	0.228	3.335	0.000
%RSD		4.543	3.050	6.064	14.270	1.454	40.530	54.650	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:54:46	56.050	68.742%	14.560	14.150	70.643%	0.036	0.025	0.130
2	00:54:54	60.160	70.197%	14.780	13.880	72.701%	0.009	0.013	-0.046
3	00:55:02	59.490	72.273%	14.390	14.040	74.939%	-0.002	0.006	0.139
x		58.570	70.404%	14.580	14.020	72.761%	0.014	0.015	0.074
σ		2.205	1.774%	0.198	0.133	2.148%	0.019	0.009	0.105
%RSD		3.765	2.520	1.356	0.951	2.953	135.100	63.190	140.500

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:54:46	0.279	68.501%	3.478	0.862	0.763	240.500	234.400	76.846%
2	00:54:54	0.188	70.298%	3.014	0.875	0.857	235.700	235.400	78.417%
3	00:55:02	0.228	72.879%	3.163	0.732	0.677	228.100	236.800	79.502%
x		0.232	70.559%	3.218	0.823	0.766	234.800	235.500	78.255%
σ		0.046	2.201%	0.237	0.079	0.090	6.266	1.234	1.335%
%RSD		19.660	3.119	7.374	9.642	11.790	2.669	0.524	1.706

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	00:54:46	0.787	0.684	98.440	89.810	93.120	79.313%
2	00:54:54	0.714	0.657	97.670	89.020	92.740	79.345%
3	00:55:02	0.776	0.701	96.610	90.100	93.330	79.568%
x		0.759	0.681	97.570	89.640	93.060	79.409%
σ		0.040	0.022	0.917	0.559	0.299	0.139%
%RSD		5.224	3.229	0.940	0.624	0.322	0.175

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User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:59:24	101.700%	7.274	0.030	101.400	97.420	0.000	60640.000	1179.000
2	00:59:32	101.578%	7.073	0.050	98.970	98.640	0.000	60700.000	1188.000
3	00:59:40	100.280%	8.142	0.077	99.490	98.330	0.000	60430.000	1188.000
x		101.186%	7.496	0.052	99.960	98.130	0.000	60590.000	1185.000
σ		0.787%	0.568	0.023	1.282	0.636	0.000	144.500	5.235
%RSD		0.777	7.577	44.960	1.283	0.648	0.000	0.239	0.442

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:59:24	1190.000	17.100	22860.000	0.000	7342.000	6121.000	5995.000	83.023%
2	00:59:32	1181.000	17.240	22750.000	0.000	7300.000	6002.000	5991.000	83.303%
3	00:59:40	1177.000	17.240	22740.000	0.000	7297.000	6053.000	5977.000	83.254%
x		1183.000	17.200	22780.000	0.000	7313.000	6059.000	5988.000	83.193%
σ		6.652	0.081	67.850	0.000	25.290	59.590	9.414	0.149%
%RSD		0.562	0.473	0.298	0.000	0.346	0.984	0.157	0.179

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:59:24	5.097	1.774	0.750	802.800	4350.000	4568.000	5.732	4.588
2	00:59:32	3.881	1.476	0.525	805.300	4341.000	4542.000	5.552	5.015
3	00:59:40	4.590	1.937	0.815	830.900	4494.000	4442.000	5.710	5.345
x		4.523	1.729	0.697	813.000	4395.000	4517.000	5.665	4.983
σ		0.611	0.234	0.152	15.560	85.690	66.810	0.099	0.380
%RSD		13.510	13.520	21.800	1.914	1.950	1.479	1.742	7.617

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:59:24	2.477	2.662	12.950	12.650	253.900	0.346	7.758	0.000
2	00:59:32	2.551	2.946	12.860	10.510	251.200	-0.106	5.618	0.000
3	00:59:40	2.397	2.548	13.210	13.910	259.100	0.119	3.815	0.000
x		2.475	2.719	13.010	12.350	254.700	0.120	5.730	0.000
σ		0.077	0.205	0.184	1.717	4.002	0.226	1.974	0.000
%RSD		3.108	7.523	1.415	13.900	1.571	188.800	34.440	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:59:24	55.280	67.280%	12.090	12.950	69.872%	-0.029	-0.010	-0.070
2	00:59:32	53.510	69.036%	12.490	12.250	71.075%	-0.035	-0.011	0.110
3	00:59:40	57.320	67.678%	12.390	12.250	71.463%	-0.035	-0.021	0.219
x		55.370	67.998%	12.320	12.480	70.803%	-0.033	-0.014	0.086
σ		1.909	0.920%	0.207	0.402	0.830%	0.003	0.006	0.146
%RSD		3.448	1.353	1.677	3.223	1.172	9.337	43.420	169.400

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	00:59:24	0.158	67.997%	0.550	0.384	0.346	138.000	136.000	71.273%
2	00:59:32	0.178	69.661%	0.515	0.279	0.338	138.200	141.600	71.765%
3	00:59:40	0.164	70.717%	0.504	0.179	0.319	137.000	138.100	71.936%
x		0.167	69.458%	0.523	0.281	0.334	137.700	138.600	71.658%
σ		0.010	1.371%	0.024	0.102	0.014	0.651	2.816	0.344%
%RSD		6.293	1.974	4.628	36.410	4.196	0.473	2.032	0.481

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	00:59:24	0.539	0.495	10.510	9.720	9.978	61.962%
2	00:59:32	0.513	0.551	10.670	9.677	10.080	62.506%
3	00:59:40	0.527	0.539	10.340	9.440	9.802	63.201%
x		0.527	0.528	10.510	9.612	9.954	62.556%
σ		0.013	0.029	0.163	0.151	0.141	0.621%
%RSD		2.467	5.573	1.553	1.566	1.417	0.993

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User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:04:03	84.862%	2.772	-0.001	21.060	22.000	0.000	11770.000	233.700
2	01:04:11	85.160%	2.413	-0.009	21.390	21.850	0.000	11770.000	236.800
3	01:04:19	86.895%	1.685	-0.010	19.730	21.240	0.000	11750.000	235.600
x		85.639%	2.290	-0.007	20.730	21.700	0.000	11760.000	235.400
σ		1.098%	0.554	0.005	0.876	0.403	0.000	14.850	1.568
%RSD		1.282	24.170	69.890	4.225	1.857	0.000	0.126	0.666

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:04:03	237.400	7.948	4772.000	0.000	1502.000	1245.000	1236.000	76.836%
2	01:04:11	238.000	7.643	4791.000	0.000	1504.000	1328.000	1230.000	77.671%
3	01:04:19	234.300	7.935	4721.000	0.000	1509.000	1280.000	1249.000	77.209%
x		236.600	7.842	4762.000	0.000	1505.000	1284.000	1238.000	77.238%
σ		1.996	0.173	36.400	0.000	3.576	41.520	9.721	0.418%
%RSD		0.844	2.200	0.764	0.000	0.238	3.233	0.785	0.541

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:04:03	0.441	0.413	0.198	166.700	932.200	925.700	1.205	1.493
2	01:04:11	0.531	0.388	0.075	169.100	917.900	995.300	1.355	1.281
3	01:04:19	0.769	0.567	0.056	166.400	956.800	930.700	1.141	1.113
x		0.580	0.456	0.110	167.400	935.600	950.600	1.234	1.296
σ		0.169	0.097	0.077	1.473	19.660	38.860	0.110	0.191
%RSD		29.160	21.230	70.300	0.880	2.102	4.088	8.882	14.710

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:04:03	0.569	0.677	2.668	2.150	51.130	-0.106	-0.681	0.000
2	01:04:11	0.674	0.704	3.272	2.181	52.540	-0.106	2.568	0.000
3	01:04:19	0.534	0.450	3.259	2.329	51.840	0.747	2.075	0.000
x		0.593	0.611	3.066	2.220	51.840	0.178	1.321	0.000
σ		0.073	0.139	0.345	0.096	0.709	0.492	1.751	0.000
%RSD		12.320	22.820	11.260	4.307	1.367	276.100	132.600	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:04:03	10.860	69.701%	2.813	2.898	73.797%	-0.021	-0.022	0.020
2	01:04:11	10.950	73.134%	2.356	2.597	74.882%	-0.021	-0.042	0.017
3	01:04:19	10.180	74.139%	2.697	2.510	76.089%	-0.021	-0.018	-0.057
x		10.660	72.325%	2.622	2.668	74.923%	-0.021	-0.027	-0.007
σ		0.425	2.327%	0.237	0.204	1.146%	0.000	0.012	0.044
%RSD		3.986	3.218	9.055	7.637	1.530	1.945	45.570	672.900

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:04:03	0.043	72.710%	-0.075	0.115	0.139	27.470	29.970	77.698%
2	01:04:11	0.066	73.648%	-0.029	0.170	0.150	30.520	29.140	80.275%
3	01:04:19	0.053	75.861%	-0.051	0.032	0.078	28.640	27.380	82.265%
x		0.054	74.073%	-0.052	0.106	0.123	28.880	28.830	80.079%
σ		0.011	1.618%	0.023	0.069	0.039	1.540	1.322	2.290%
%RSD		20.680	2.184	44.370	65.410	31.580	5.333	4.586	2.860

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	01:04:03	0.147	0.125	2.184	1.741	2.014	77.431%
2	01:04:11	0.143	0.183	2.237	1.991	2.033	79.699%
3	01:04:19	0.134	0.136	2.259	1.744	2.049	82.381%
x		0.141	0.148	2.227	1.825	2.032	79.837%
σ		0.006	0.031	0.039	0.144	0.018	2.478%
%RSD		4.528	20.700	1.735	7.860	0.886	3.104

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User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:13:22	86.779%	6.162	1.134	74.280	75.860	0.000	376.900	530.900
2	01:13:30	87.516%	5.703	1.169	78.330	76.350	0.000	382.400	545.700
3	01:13:38	86.901%	5.618	1.005	77.040	77.130	0.000	381.500	544.500
x		87.066%	116.547%	110.277%	1530.974%	1529.000%	0.000	475.328%	540.387%
σ		0.395%	n/a	n/a	n/a	n/a	0.000	n/a	n/a
%RSD		0.454	5.019	7.822	2.702	0.837	0.000	0.787	1.525

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:13:22	533.300	36.710	221.500	0.000	551.000	569.500	515.900	80.562%
2	01:13:30	542.600	36.370	221.300	0.000	556.200	562.600	509.600	80.352%
3	01:13:38	538.100	35.980	230.400	0.000	553.400	586.900	528.000	80.501%
x		538.025%	121.172%	44.883%	0.000	553.527%	573.024%	517.830%	80.472%
σ		n/a	n/a	n/a	0.000	n/a	n/a	n/a	0.108%
%RSD		0.868	1.012	2.305	0.000	0.474	2.181	1.813	0.134

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:13:22	5.200	1.219	1.827	5.796	53.800	63.660	0.540	1.263
2	01:13:30	5.597	1.062	1.832	5.715	53.810	77.520	0.583	1.086
3	01:13:38	4.728	1.211	2.070	5.714	54.720	45.500	0.441	1.151
x		103.499%	116.390%	95.490%	114.833%	108.216%	124.448%	104.248%	116.661%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		8.410	7.594	7.285	0.818	0.980	25.800	13.980	7.690

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:13:22	2.132	2.394	6.194	6.387	0.796	5.314	5.478	0.000
2	01:13:30	2.231	2.266	4.971	5.079	0.994	5.418	6.298	0.000
3	01:13:38	2.116	2.219	5.126	4.665	1.143	4.922	4.456	0.000
x		107.992%	114.659%	108.600%	107.539%	97.763%	104.363%	108.217%	0.000
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.000
%RSD		2.881	3.951	12.260	16.710	17.780	5.010	17.060	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:13:22	5.223	71.555%	4.715	4.937	75.057%	1.027	1.101	0.924
2	01:13:30	4.426	73.506%	5.008	5.161	76.856%	1.036	1.134	1.151
3	01:13:38	4.613	74.825%	5.596	5.212	77.813%	1.009	1.082	1.064
x		95.078%	73.295%	102.126%	102.061%	76.575%	102.405%	110.564%	104.623%
σ		n/a	1.645%	n/a	n/a	1.399%	n/a	n/a	n/a
%RSD		8.771	2.245	8.791	2.870	1.827	1.370	2.385	10.930

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:13:22	1.320	74.301%	6.093	1.709	1.782	9.966	10.170	78.905%
2	01:13:30	1.357	76.704%	5.067	1.705	1.998	8.936	9.824	79.216%
3	01:13:38	1.219	77.791%	5.213	1.900	2.106	11.060	10.410	79.136%
x		129.864%	76.265%	109.151%	88.578%	98.099%	99.872%	101.376%	79.086%
σ		n/a	1.786%	n/a	n/a	n/a	n/a	n/a	0.161%
%RSD		5.498	2.342	10.170	6.297	8.415	10.640	2.928	0.204

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	01:13:22	0.955	0.978	1.045	1.061	1.062	80.885%
2	01:13:30	1.036	1.020	0.990	1.131	1.075	81.429%
3	01:13:38	1.033	0.969	1.066	1.179	1.155	81.234%
x		100.804%	98.878%	103.363%	112.341%	109.725%	81.182%
σ		n/a	n/a	n/a	n/a	n/a	0.275%
%RSD		4.580	2.757	3.815	5.263	4.624	0.339

CCV 2907280 10/10/2018 1:18:53 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:18:00	82.710%	92.040	97.010	95.940	94.140	0.000	50880.000	50890.000
2	01:18:08	82.210%	95.090	98.640	91.090	94.290	0.000	52260.000	52530.000
3	01:18:16	82.098%	93.270	96.650	95.660	95.130	0.000	50710.000	50890.000
x		82.339%	93.465%	97.434%	94.230%	94.520%	0.000	102.563%	102.869%
σ		0.326%	n/a	n/a	n/a	n/a	0.000	n/a	n/a
%RSD		0.396	1.638	1.085	2.888	0.562	0.000	1.654	1.839

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:18:00	51060.000	515.200	4898.000	0.000	50960.000	49680.000	47330.000	77.707%
2	01:18:08	52530.000	530.400	5071.000	0.000	52220.000	51600.000	48980.000	76.647%
3	01:18:16	50940.000	525.200	5002.000	0.000	50710.000	49920.000	47220.000	78.416%
x		103.021%	104.720%	99.809%	0.000	102.595%	100.804%	95.693%	77.590%
σ		n/a	n/a	n/a	0.000	n/a	n/a	n/a	0.890%
%RSD		1.718	1.471	1.755	0.000	1.573	2.077	2.061	1.147

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:18:00	105.800	96.720	98.320	504.000	25370.000	24820.000	100.500	99.310
2	01:18:08	111.000	100.800	99.780	520.100	26100.000	25520.000	103.900	100.700
3	01:18:16	108.100	98.500	99.780	503.200	26050.000	25240.000	103.100	95.850
x		108.303%	98.669%	99.292%	101.821%	103.363%	100.782%	102.516%	98.634%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		2.442	2.067	0.850	1.880	1.578	1.395	1.732	2.550

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:18:00	101.400	105.300	102.700	101.700	102.000	104.800	97.720	0.000
2	01:18:08	102.400	103.100	101.600	101.500	100.900	98.550	92.530	0.000
3	01:18:16	100.800	102.700	104.400	105.100	99.720	102.000	89.250	0.000
x		101.540%	103.706%	102.903%	102.797%	100.855%	101.773%	93.167%	0.000
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.000
%RSD		0.815	1.369	1.402	1.977	1.109	3.056	4.584	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:18:00	100.400	73.970%	106.500	107.400	74.220%	97.190	100.300	106.100
2	01:18:08	102.800	77.325%	104.100	107.600	76.097%	97.690	100.300	100.400
3	01:18:16	98.110	80.779%	109.200	107.000	78.088%	97.170	97.860	104.900
x		100.412%	77.358%	106.616%	107.348%	76.135%	97.346%	99.489%	103.803%
σ		n/a	3.405%	n/a	n/a	1.935%	n/a	n/a	n/a
%RSD		2.321	4.401	2.420	0.278	2.541	0.303	1.416	2.859

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:18:00	103.800	75.525%	102.700	102.800	103.600	97.050	95.920	79.466%
2	01:18:08	107.500	76.946%	102.600	104.500	102.800	100.300	101.500	80.424%
3	01:18:16	105.300	79.569%	102.800	103.500	103.000	101.800	100.600	83.305%
x		105.518%	77.347%	102.688%	103.613%	103.138%	99.709%	99.334%	81.065%
σ		n/a	2.052%	n/a	n/a	n/a	n/a	n/a	1.998%
%RSD		1.766	2.653	0.057	0.816	0.391	2.433	3.010	2.465

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	01:18:00	103.300	100.900	102.700	103.700	103.100	75.037%
2	01:18:08	102.100	100.700	102.500	105.300	103.700	77.179%
3	01:18:16	100.900	101.000	103.900	102.400	102.500	79.148%
x		102.114%	100.883%	103.022%	103.758%	103.088%	77.121%
σ		n/a	n/a	n/a	n/a	n/a	2.056%
%RSD		1.210	0.193	0.723	1.398	0.595	2.666

CCB6 10/10/2018 1:23:32 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:22:40	78.374%	0.627	0.010	2.698	2.576	0.000	-131.400	14.740
2	01:22:48	81.995%	-0.244	0.008	1.395	2.625	0.000	-136.600	13.650
3	01:22:56	80.711%	1.103	-0.007	1.964	2.356	0.000	-133.500	12.640
x		80.360%	0.495	0.003	2.019	2.519	0.000	-133.800	13.680
σ		1.836%	0.683	0.010	0.653	0.144	0.000	2.644	1.052
%RSD		2.284	137.900	278.900	32.360	5.702	0.000	1.976	7.691

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:22:40	12.310	3.745	15.610	0.000	63.170	22.390	20.840	82.917%
2	01:22:48	12.980	3.480	-11.910	0.000	59.360	22.900	17.530	84.634%
3	01:22:56	13.350	3.598	-2.740	0.000	57.480	21.060	11.350	85.006%
x		12.880	3.607	0.321	0.000	60.000	22.110	16.570	84.186%
σ		0.532	0.133	14.010	0.000	2.897	0.950	4.821	1.115%
%RSD		4.128	3.682	4365.000	0.000	4.828	4.297	29.090	1.324

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:22:40	-0.050	0.046	0.044	0.371	13.390	13.250	0.015	0.803
2	01:22:48	0.095	0.028	-0.048	0.471	12.320	15.940	-0.007	0.179
3	01:22:56	-0.027	0.028	0.070	0.315	12.030	12.800	0.014	0.246
x		0.006	0.034	0.022	0.386	12.580	14.000	0.007	0.409
σ		0.078	0.010	0.062	0.079	0.714	1.700	0.012	0.343
%RSD		1288.000	30.360	283.400	20.480	5.676	12.150	173.400	83.730

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:22:40	-0.031	0.265	0.206	0.050	0.113	0.090	-1.852	0.000
2	01:22:48	0.068	0.031	0.008	-0.019	0.154	0.088	-0.984	0.000
3	01:22:56	-0.035	0.095	0.192	-0.089	0.087	-0.106	0.616	0.000
x		0.001	0.130	0.135	-0.019	0.118	0.024	-0.740	0.000
σ		0.058	0.121	0.111	0.070	0.034	0.112	1.252	0.000
%RSD		10000.000	92.830	81.960	361.800	28.570	471.500	169.200	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:22:40	0.036	81.197%	0.490	0.328	83.490%	-0.028	-0.012	-0.015
2	01:22:48	-0.009	81.700%	0.351	0.432	83.729%	-0.003	-0.017	0.091
3	01:22:56	0.012	84.096%	0.226	0.402	84.867%	0.013	0.008	-0.005
x		0.013	82.331%	0.356	0.388	84.029%	-0.006	-0.007	0.024
σ		0.022	1.549%	0.132	0.053	0.736%	0.021	0.013	0.059
%RSD		170.700	1.882	37.100	13.790	0.876	370.100	189.700	247.700

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:22:40	0.018	82.350%	0.179	0.353	0.217	-0.039	0.043	86.736%
2	01:22:48	-0.003	83.900%	0.171	0.237	0.152	0.099	0.042	87.567%
3	01:22:56	0.027	84.710%	0.068	0.155	0.270	0.166	0.079	88.837%
x		0.014	83.653%	0.139	0.249	0.213	0.075	0.055	87.714%
σ		0.015	1.200%	0.062	0.100	0.059	0.105	0.021	1.058%
%RSD		108.800	1.434	44.170	40.050	27.650	139.300	37.560	1.206

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	01:22:40	0.054	0.055	0.084	0.008	0.071	86.992%
2	01:22:48	0.042	0.053	0.054	0.021	0.052	89.015%
3	01:22:56	0.066	0.041	0.025	0.020	0.044	90.561%
x		0.054	0.050	0.054	0.016	0.056	88.856%
σ		0.012	0.008	0.029	0.007	0.014	1.790%
%RSD		22.030	15.200	53.620	45.670	24.470	2.014

MB 180-259268/1-A 10/10/2018 1:28:13 AM

User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:27:19	85.988%	0.030	0.013	1.433	2.034	0.000	-150.100	0.323
2	01:27:27	86.773%	0.374	-0.010	1.031	1.928	0.000	-150.700	0.144
3	01:27:35	83.760%	0.286	0.006	2.485	2.244	0.000	-152.400	0.624
x		85.507%	0.230	0.003	1.650	2.068	0.000	-151.000	0.364
σ		1.563%	0.179	0.012	0.751	0.161	0.000	1.173	0.243
%RSD		1.828	77.760	400.400	45.500	7.770	0.000	0.777	66.700

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:27:19	0.597	1.771	-36.520	0.000	40.670	5.032	2.630	88.741%
2	01:27:27	0.104	1.640	-46.860	0.000	39.950	29.800	1.471	88.402%
3	01:27:35	0.380	1.441	-25.740	0.000	37.050	14.600	1.909	88.040%
x		0.360	1.617	-36.370	0.000	39.230	16.480	2.003	88.394%
σ		0.247	0.166	10.560	0.000	1.918	12.490	0.585	0.351%
%RSD		68.670	10.280	29.040	0.000	4.891	75.810	29.200	0.397

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:27:19	-0.041	0.041	0.082	0.185	0.337	-3.320	-0.008	0.120
2	01:27:27	-0.127	0.041	-0.061	0.203	0.404	6.678	0.003	0.011
3	01:27:35	-0.097	0.042	-0.079	0.185	0.669	5.257	0.034	0.339
x		-0.088	0.041	-0.019	0.191	0.470	2.871	0.010	0.157
σ		0.043	0.000	0.088	0.010	0.176	5.409	0.022	0.167
%RSD		49.230	0.496	462.500	5.461	37.320	188.400	222.300	106.700

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:27:19	0.035	0.003	0.510	0.810	0.087	0.083	-1.792	0.000
2	01:27:27	0.023	-0.019	0.185	0.689	0.045	-0.106	1.863	0.000
3	01:27:35	0.011	0.047	0.556	0.105	0.045	0.082	1.028	0.000
x		0.023	0.010	0.417	0.535	0.059	0.020	0.366	0.000
σ		0.012	0.034	0.203	0.377	0.024	0.109	1.915	0.000
%RSD		52.430	337.000	48.550	70.520	41.310	551.000	522.800	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:27:19	0.013	83.071%	0.229	0.303	84.016%	-0.015	-0.029	0.070
2	01:27:27	-0.009	83.345%	0.278	0.176	84.524%	-0.024	-0.021	0.123
3	01:27:35	0.012	83.959%	0.175	0.346	86.430%	-0.008	-0.005	0.024
x		0.005	83.458%	0.227	0.275	84.990%	-0.016	-0.019	0.072
σ		0.012	0.455%	0.052	0.088	1.273%	0.008	0.012	0.049
%RSD		240.500	0.545	22.760	32.090	1.497	50.410	65.660	68.160

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:27:19	-0.003	83.028%	-0.083	0.109	0.069	-0.039	-0.033	86.717%
2	01:27:27	0.037	83.600%	-0.112	0.068	0.056	0.031	0.005	85.725%
3	01:27:35	0.007	86.540%	-0.172	0.075	0.041	-0.039	0.004	87.435%
x		0.014	84.389%	-0.122	0.084	0.055	-0.016	-0.008	86.626%
σ		0.021	1.884%	0.045	0.022	0.014	0.040	0.022	0.859%
%RSD		150.800	2.233	37.240	26.100	24.740	251.500	282.200	0.991

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	01:27:19	0.007	0.011	0.042	-0.027	0.032	82.826%
2	01:27:27	0.015	0.017	0.024	0.023	0.030	82.194%
3	01:27:35	0.026	0.027	0.048	0.045	0.052	82.013%
x		0.016	0.018	0.038	0.014	0.038	82.345%
σ		0.010	0.008	0.013	0.037	0.012	0.427%
%RSD		59.720	43.030	33.250	269.900	32.160	0.519

LCS 180-259268/2-A 10/10/2018 1:32:52 AM

User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:31:58	78.113%	1.180	56.160	1011.000	1011.000	0.000	54300.000	53160.000
2	01:32:06	86.938%	0.088	44.160	822.800	806.800	0.000	43520.000	42830.000
3	01:32:14	83.024%	0.175	49.720	915.200	906.200	0.000	50020.000	48790.000
x		82.691%	0.481	50.010	916.300	908.100	0.000	49280.000	48260.000
σ		4.422%	0.607	6.003	93.990	102.300	0.000	5426.000	5189.000
%RSD		5.347	126.300	12.000	10.260	11.260	0.000	11.010	10.750

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:31:58	53130.000	12930.000	1106.000	0.000	53360.000	53110.000	49390.000	78.177%
2	01:32:06	42540.000	10390.000	744.000	0.000	42390.000	42050.000	39560.000	86.006%
3	01:32:14	48750.000	11900.000	933.700	0.000	49120.000	48700.000	45390.000	80.570%
x		48140.000	11740.000	928.000	0.000	48290.000	47950.000	44780.000	81.584%
σ		5321.000	1275.000	181.300	0.000	5533.000	5571.000	4942.000	4.012%
%RSD		11.050	10.860	19.530	0.000	11.460	11.620	11.040	4.917

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:31:58	1046.000	453.500	186.400	545.200	10020.000	10380.000	486.300	475.800
2	01:32:06	845.600	421.800	173.100	420.200	9486.000	9839.000	460.700	451.400
3	01:32:14	961.800	457.000	187.100	482.200	10040.000	10350.000	481.700	475.100
x		951.200	444.100	182.200	482.500	9849.000	10190.000	476.200	467.500
σ		100.800	19.390	7.902	62.550	314.500	303.800	13.650	13.920
%RSD		10.590	4.366	4.338	12.960	3.193	2.981	2.866	2.978

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:31:58	243.400	250.300	506.800	513.200	39.490	9.862	6.994	0.000
2	01:32:06	235.700	233.300	485.100	476.000	40.330	9.342	7.662	0.000
3	01:32:14	241.400	240.600	489.500	504.300	43.390	10.800	7.698	0.000
x		240.100	241.400	493.800	497.900	41.070	10.000	7.451	0.000
σ		3.988	8.512	11.420	19.440	2.052	0.739	0.397	0.000
%RSD		1.661	3.526	2.313	3.905	4.995	7.387	5.322	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:31:58	976.000	72.247%	1047.000	1047.000	72.244%	51.820	53.640	51.600
2	01:32:06	990.600	73.173%	1036.000	1045.000	73.092%	52.100	53.140	54.180
3	01:32:14	987.700	74.707%	1037.000	1042.000	74.292%	50.710	52.340	48.190
x		984.800	73.376%	1040.000	1045.000	73.209%	51.540	53.040	51.320
σ		7.713	1.243%	6.019	2.408	1.029%	0.737	0.655	3.003
%RSD		0.783	1.694	0.579	0.231	1.406	1.430	1.234	5.851

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:31:58	85.470	72.130%	2059.000	512.700	511.700	1974.000	2007.000	77.039%
2	01:32:06	83.850	73.907%	2043.000	514.000	503.500	1985.000	1974.000	79.035%
3	01:32:14	83.710	76.229%	2030.000	513.700	502.500	1994.000	2008.000	79.440%
x		84.340	74.089%	2044.000	513.500	505.900	1984.000	1996.000	78.505%
σ		0.976	2.055%	14.650	0.655	5.032	9.804	19.120	1.286%
%RSD		1.158	2.774	0.717	0.128	0.995	0.494	0.958	1.637

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	01:31:58	53.330	51.950	22.290	22.360	22.290	67.282%
2	01:32:06	51.470	50.870	21.570	22.670	21.760	68.981%
3	01:32:14	51.840	49.850	21.720	21.640	21.740	70.858%
x		52.210	50.890	21.860	22.220	21.930	69.041%
σ		0.982	1.052	0.380	0.527	0.314	1.789%
%RSD		1.881	2.066	1.737	2.369	1.430	2.591

460-166149-G-1-A 10/10/2018 1:37:30 AM

User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:36:37	75.192%	12.510	0.013	238.000	232.700	0.000	57100.000	9340.000
2	01:36:45	72.972%	11.240	-0.021	238.100	240.700	0.000	58660.000	9569.000
3	01:36:53	75.509%	10.800	0.030	229.600	231.400	0.000	57790.000	9465.000
x		74.558%	11.520	0.007	235.200	234.900	0.000	57850.000	9458.000
σ		1.382%	0.890	0.026	4.873	5.021	0.000	781.800	114.300
%RSD		1.854	7.729	353.200	2.071	2.137	0.000	1.352	1.209

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:36:37	9369.000	610.400	14570.000	0.000	7620.000	42380.000	40280.000	73.965%
2	01:36:45	9570.000	625.600	14990.000	0.000	7833.000	43320.000	41040.000	72.696%
3	01:36:53	9418.000	616.700	14540.000	0.000	7749.000	42870.000	40560.000	73.160%
x		9453.000	617.600	14700.000	0.000	7734.000	42860.000	40630.000	73.274%
σ		104.900	7.660	256.200	0.000	107.100	471.200	384.400	0.642%
%RSD		1.110	1.240	1.743	0.000	1.385	1.099	0.946	0.876

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:36:37	3.516	0.876	0.165	44.630	458.700	523.900	0.020	8.975
2	01:36:45	3.478	1.077	0.183	45.380	478.100	527.200	0.070	8.604
3	01:36:53	4.049	0.862	0.308	44.460	475.800	485.400	0.144	9.893
x		3.681	0.938	0.218	44.820	470.900	512.200	0.078	9.158
σ		0.319	0.120	0.078	0.494	10.610	23.250	0.063	0.664
%RSD		8.663	12.830	35.780	1.102	2.253	4.540	80.300	7.247

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:36:37	1.341	1.903	62.360	61.590	2.165	0.582	1.718	0.000
2	01:36:45	1.557	2.100	64.860	66.720	1.832	0.579	2.713	0.000
3	01:36:53	1.709	1.487	64.480	69.810	2.397	0.342	2.663	0.000
x		1.535	1.830	63.900	66.040	2.131	0.501	2.365	0.000
σ		0.185	0.313	1.344	4.153	0.284	0.138	0.561	0.000
%RSD		12.020	17.100	2.104	6.288	13.320	27.440	23.720	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:36:37	311.400	68.298%	7.618	8.185	68.697%	0.001	-0.005	-0.076
2	01:36:45	317.900	68.997%	6.065	6.681	69.711%	-0.020	-0.011	0.109
3	01:36:53	312.000	70.589%	6.526	6.157	70.714%	0.015	0.008	-0.079
x		313.800	69.295%	6.736	7.008	69.707%	-0.001	-0.003	-0.016
σ		3.573	1.174%	0.797	1.053	1.008%	0.017	0.010	0.107
%RSD		1.139	1.694	11.840	15.020	1.446	1416.000	357.900	691.900

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:36:37	0.336	69.695%	8.452	1.028	1.040	36.830	39.350	76.776%
2	01:36:45	0.116	71.175%	7.976	0.972	1.005	41.560	41.170	77.686%
3	01:36:53	0.114	72.466%	5.815	0.873	0.902	35.820	40.670	79.355%
x		0.188	71.112%	7.415	0.958	0.982	38.070	40.390	77.939%
σ		0.128	1.386%	1.405	0.078	0.071	3.067	0.939	1.308%
%RSD		67.770	1.949	18.950	8.157	7.270	8.057	2.326	1.678

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	01:36:37	0.201	0.210	0.374	0.286	0.329	77.173%
2	01:36:45	0.229	0.209	0.361	0.297	0.327	78.673%
3	01:36:53	0.165	0.195	0.422	0.306	0.341	80.222%
x		0.198	0.204	0.386	0.296	0.332	78.689%
σ		0.032	0.008	0.032	0.010	0.007	1.524%
%RSD		16.070	4.017	8.348	3.446	2.188	1.937

460-166149-G-1-ASD@5 10/10/2018 1:42:07 AM

User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:41:15	73.659%	1.818	-0.039	50.040	50.460	0.000	11470.000	1909.000
2	01:41:23	75.539%	1.416	-0.013	46.080	50.090	0.000	11270.000	1865.000
3	01:41:31	71.737%	2.417	0.052	51.250	51.380	0.000	12120.000	1988.000
x		73.645%	1.884	0.000	49.120	50.640	0.000	11620.000	1921.000
σ		1.901%	0.504	0.047	2.702	0.666	0.000	442.300	62.050
%RSD		2.581	26.740	138000.000	5.501	1.316	0.000	3.807	3.230

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:41:15	1889.000	126.000	3149.000	0.000	1589.000	8780.000	8154.000	74.965%
2	01:41:23	1862.000	124.600	2667.000	0.000	1560.000	8414.000	8058.000	76.050%
3	01:41:31	1983.000	134.700	3332.000	0.000	1708.000	9091.000	8583.000	70.078%
x		1911.000	128.400	3049.000	0.000	1619.000	8762.000	8265.000	73.698%
σ		63.350	5.460	343.500	0.000	78.190	338.800	279.600	3.181%
%RSD		3.315	4.252	11.260	0.000	4.830	3.867	3.383	4.316

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:41:15	0.529	0.366	0.080	8.778	94.950	80.640	0.043	2.492
2	01:41:23	0.752	0.306	0.022	9.061	97.900	104.500	-0.018	2.160
3	01:41:31	0.701	0.293	0.027	9.803	106.100	112.700	-0.005	3.104
x		0.661	0.322	0.043	9.214	99.640	99.260	0.007	2.586
σ		0.117	0.039	0.032	0.529	5.753	16.640	0.032	0.479
%RSD		17.670	12.110	75.290	5.746	5.774	16.770	486.400	18.520

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:41:15	0.343	0.341	12.940	12.090	0.423	-0.106	1.658	0.000
2	01:41:23	0.295	0.258	13.710	14.190	0.370	0.113	1.164	0.000
3	01:41:31	0.317	0.383	15.020	15.690	0.379	-0.106	0.201	0.000
x		0.318	0.328	13.890	13.990	0.391	-0.033	1.008	0.000
σ		0.024	0.064	1.053	1.806	0.028	0.126	0.741	0.000
%RSD		7.613	19.400	7.581	12.910	7.238	382.300	73.510	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:41:15	62.320	71.444%	1.568	1.757	73.834%	-0.021	-0.022	0.056
2	01:41:23	64.530	72.031%	1.540	1.570	73.965%	-0.030	-0.032	-0.160
3	01:41:31	65.840	72.299%	1.529	1.343	74.861%	-0.007	-0.023	-0.090
x		64.230	71.925%	1.545	1.557	74.220%	-0.020	-0.026	-0.065
σ		1.779	0.437%	0.020	0.207	0.559%	0.012	0.005	0.110
%RSD		2.770	0.608	1.308	13.310	0.753	59.280	21.260	170.500

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:41:15	0.020	73.280%	1.556	0.261	0.233	7.374	7.940	81.141%
2	01:41:23	0.031	75.453%	1.507	0.364	0.253	8.611	7.523	81.324%
3	01:41:31	-0.003	77.227%	1.591	0.215	0.208	9.055	6.870	82.195%
x		0.016	75.320%	1.552	0.280	0.231	8.347	7.444	81.553%
σ		0.017	1.977%	0.042	0.076	0.023	0.871	0.539	0.563%
%RSD		106.500	2.625	2.719	27.230	9.844	10.440	7.245	0.691

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	01:41:15	0.083	0.099	0.032	0.091	0.068	84.013%
2	01:41:23	0.048	0.091	0.040	0.067	0.053	85.626%
3	01:41:31	0.078	0.073	0.069	0.052	0.072	84.714%
x		0.070	0.088	0.047	0.070	0.064	84.784%
σ		0.019	0.013	0.019	0.019	0.010	0.809%
%RSD		27.290	14.760	41.540	27.760	15.310	0.954

460-166149-G-1-B MS 10/10/2018 1:46:43 AM

User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:45:50	72.534%	11.690	54.810	1245.000	1241.000	0.000	113900.000	62390.000
2	01:45:58	73.142%	11.970	53.320	1238.000	1237.000	0.000	115300.000	63410.000
3	01:46:06	72.224%	12.240	56.220	1254.000	1253.000	0.000	115300.000	63360.000
x		72.633%	11.970	54.780	1246.000	1243.000	0.000	114800.000	63050.000
σ		0.467%	0.277	1.451	7.948	8.266	0.000	781.400	570.700
%RSD		0.643	2.315	2.649	0.638	0.665	0.000	0.680	0.905

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:45:50	62270.000	13350.000	16420.000	0.000	59750.000	95510.000	97880.000	70.745%
2	01:45:58	63340.000	13640.000	16600.000	0.000	60490.000	96910.000	98860.000	70.489%
3	01:46:06	63020.000	13610.000	16630.000	0.000	60200.000	96380.000	98780.000	70.707%
x		62880.000	13530.000	16550.000	0.000	60140.000	96270.000	98510.000	70.647%
σ		549.700	158.400	115.800	0.000	376.400	705.600	544.500	0.138%
%RSD		0.874	1.171	0.700	0.000	0.626	0.733	0.553	0.196

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:45:50	1034.000	470.000	194.500	560.500	10780.000	11010.000	494.700	495.700
2	01:45:58	1046.000	468.200	192.400	570.700	10890.000	11280.000	493.700	495.100
3	01:46:06	1031.000	475.800	196.000	568.900	11040.000	11140.000	500.500	499.200
x		1037.000	471.300	194.300	566.700	10900.000	11140.000	496.300	496.700
σ		8.091	3.983	1.828	5.417	129.900	137.000	3.656	2.183
%RSD		0.780	0.845	0.941	0.956	1.192	1.230	0.737	0.440

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:45:50	246.000	254.100	564.400	593.800	43.490	9.655	13.840	0.000
2	01:45:58	246.900	255.200	573.700	578.200	43.600	8.879	11.320	0.000
3	01:46:06	247.900	256.700	581.300	561.600	44.760	10.290	12.890	0.000
x		246.900	255.300	573.100	577.900	43.950	9.608	12.680	0.000
σ		0.954	1.304	8.477	16.060	0.701	0.707	1.272	0.000
%RSD		0.386	0.511	1.479	2.779	1.594	7.358	10.030	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:45:50	1337.000	65.878%	1078.000	1082.000	66.556%	52.240	53.100	52.460
2	01:45:58	1311.000	68.873%	1064.000	1068.000	67.845%	51.910	52.440	53.680
3	01:46:06	1341.000	68.546%	1071.000	1068.000	68.351%	52.340	52.750	53.980
x		1330.000	67.765%	1071.000	1073.000	67.584%	52.160	52.760	53.370
σ		16.000	1.643%	6.940	8.172	0.925%	0.223	0.329	0.804
%RSD		1.203	2.425	0.648	0.762	1.369	0.428	0.624	1.506

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:45:50	88.170	67.576%	2108.000	530.600	517.400	2024.000	2027.000	74.999%
2	01:45:58	87.570	68.854%	2115.000	529.600	519.400	2060.000	2041.000	76.656%
3	01:46:06	86.380	70.762%	2081.000	525.700	511.800	2023.000	2036.000	77.532%
x		87.370	69.064%	2102.000	528.700	516.200	2036.000	2034.000	76.396%
σ		0.909	1.603%	17.830	2.578	3.917	20.850	7.075	1.286%
%RSD		1.041	2.321	0.848	0.488	0.759	1.024	0.348	1.684

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	01:45:50	52.120	51.170	22.790	22.620	22.580	67.497%
2	01:45:58	52.080	51.850	22.760	22.480	22.930	67.657%
3	01:46:06	51.300	50.870	22.810	22.120	22.460	68.208%
x		51.830	51.290	22.790	22.410	22.660	67.787%
σ		0.464	0.504	0.026	0.256	0.246	0.373%
%RSD		0.895	0.983	0.113	1.144	1.086	0.551

460-166149-G-1-C MSD 10/10/2018 1:51:19 AM

User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:50:27	72.285%	10.970	52.920	1208.000	1215.000	0.000	112100.000	61610.000
2	01:50:35	73.094%	10.770	51.250	1230.000	1210.000	0.000	113000.000	62070.000
3	01:50:43	71.682%	10.940	53.550	1238.000	1232.000	0.000	112100.000	61830.000
x		72.353%	10.890	52.570	1226.000	1219.000	0.000	112400.000	61840.000
σ		0.708%	0.108	1.189	15.540	11.700	0.000	483.700	229.600
%RSD		0.979	0.990	2.261	1.268	0.960	0.000	0.430	0.371

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:50:27	61680.000	13260.000	16120.000	0.000	58690.000	94200.000	96220.000	70.384%
2	01:50:35	61890.000	13350.000	16100.000	0.000	59470.000	94720.000	97720.000	70.104%
3	01:50:43	61720.000	13310.000	16210.000	0.000	58980.000	95030.000	96670.000	70.577%
x		61770.000	13300.000	16140.000	0.000	59050.000	94650.000	96870.000	70.355%
σ		111.100	46.660	54.540	0.000	392.800	417.600	774.800	0.238%
%RSD		0.180	0.351	0.338	0.000	0.665	0.441	0.800	0.338

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:50:27	1023.000	454.100	187.600	557.100	10440.000	10600.000	479.900	479.100
2	01:50:35	1054.000	467.200	188.700	564.000	10720.000	10860.000	486.100	478.100
3	01:50:43	1032.000	475.400	193.900	561.700	10870.000	11020.000	493.800	487.300
x		1036.000	465.600	190.000	560.900	10680.000	10830.000	486.600	481.500
σ		15.640	10.750	3.357	3.499	221.300	212.700	6.975	5.058
%RSD		1.509	2.308	1.766	0.624	2.073	1.964	1.433	1.050

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:50:27	238.200	246.700	557.600	554.100	42.350	8.372	9.526	0.000
2	01:50:35	245.800	240.100	566.900	560.500	43.170	10.120	13.460	0.000
3	01:50:43	244.000	252.400	559.500	577.400	44.990	9.053	11.860	0.000
x		242.700	246.400	561.300	564.000	43.500	9.181	11.620	0.000
σ		3.972	6.160	4.941	12.040	1.352	0.880	1.980	0.000
%RSD		1.637	2.500	0.880	2.135	3.108	9.583	17.040	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:50:27	1275.000	66.935%	1057.000	1063.000	66.344%	50.430	51.870	50.880
2	01:50:35	1287.000	68.220%	1046.000	1054.000	67.457%	51.420	52.020	51.480
3	01:50:43	1311.000	69.401%	1049.000	1055.000	69.159%	52.080	51.470	54.620
x		1291.000	68.185%	1051.000	1057.000	67.653%	51.310	51.790	52.330
σ		18.050	1.234%	5.468	4.993	1.418%	0.830	0.285	2.009
%RSD		1.399	1.809	0.520	0.472	2.096	1.617	0.550	3.839

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:50:27	83.390	68.312%	2054.000	510.600	501.400	1964.000	2000.000	75.663%
2	01:50:35	86.050	69.078%	2064.000	521.400	504.500	1992.000	1995.000	78.422%
3	01:50:43	84.590	71.190%	2066.000	512.300	504.200	1993.000	1997.000	79.947%
x		84.670	69.527%	2062.000	514.800	503.400	1983.000	1997.000	78.011%
σ		1.330	1.490%	6.396	5.788	1.692	16.380	2.616	2.172%
%RSD		1.571	2.144	0.310	1.124	0.336	0.826	0.131	2.784

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	01:50:27	52.190	51.690	22.560	21.860	22.210	73.576%
2	01:50:35	50.620	50.570	21.360	21.260	21.540	77.359%
3	01:50:43	50.400	51.160	22.150	21.980	21.800	78.662%
x		51.070	51.140	22.020	21.700	21.850	76.532%
σ		0.975	0.561	0.611	0.382	0.337	2.642%
%RSD		1.908	1.097	2.773	1.761	1.541	3.452

CCV 2907280 10/10/2018 1:55:55 AM QC Status: PASS (Initial: FAIL)

User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:55:03	81.222%	90.260	96.070	103.100	97.580	0.000	50240.000	50360.000
2	01:55:11	81.533%	90.020	96.930	102.600	96.590	0.000	50130.000	50450.000
3	01:55:19	80.005%	92.870	98.810	101.700	100.600	0.000	50400.000	50600.000
x		80.920%	91.053%	97.271%	102.469%	98.241%	0.000	100.510%	100.934%
σ		0.807%	n/a	n/a	n/a	n/a	0.000	n/a	n/a
%RSD		0.998	1.736	1.438	0.682	2.100	0.000	0.272	0.241

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:55:03	50100.000	543.400	4851.000	0.000	49880.000	48720.000	46080.000	77.458%
2	01:55:11	50460.000	545.700	4845.000	0.000	49940.000	49260.000	46580.000	77.788%
3	01:55:19	50730.000	548.500	4945.000	0.000	50260.000	49870.000	46450.000	78.094%
x		100.857%	109.173%	97.600%	0.000	100.055%	98.573%	92.741%	77.780%
σ		n/a	n/a	n/a	0.000	n/a	n/a	n/a	0.318%
%RSD		0.631	0.469	1.146	0.000	0.406	1.166	0.555	0.409

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:55:03	106.400	92.640	94.300	507.500	24910.000	24490.000	98.860	95.570
2	01:55:11	102.100	96.540	97.550	511.800	25010.000	24380.000	98.040	98.340
3	01:55:19	108.200	98.580	95.880	499.700	25370.000	24610.000	99.480	95.610
x		105.574%	95.916%	95.911%	101.262%	100.385%	97.979%	98.795%	96.505%
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
%RSD		2.980	3.147	1.692	1.209	0.966	0.472	0.727	1.648

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:55:03	99.880	102.400	98.310	100.800	98.760	93.290	94.740	0.000
2	01:55:11	97.530	99.490	99.850	96.780	94.990	100.500	102.500	0.000
3	01:55:19	97.970	102.000	99.430	99.460	100.000	112.200	97.730	0.000
x		98.463%	101.287%	99.199%	99.009%	97.922%	101.998%	98.335%	0.000
σ		n/a	n/a	n/a	n/a	n/a	n/a	n/a	0.000
%RSD		1.269	1.549	0.803	2.059	2.670	9.361	4.002	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:55:03	101.000	75.569%	107.000	108.600	74.426%	96.170	99.240	101.300
2	01:55:11	99.840	76.659%	106.400	110.200	75.431%	96.750	99.420	107.500
3	01:55:19	106.500	76.842%	109.200	107.300	76.539%	95.660	97.260	100.800
x		102.427%	76.357%	107.537%	108.712%	75.465%	96.194%	98.638%	103.220%
σ		n/a	0.688%	n/a	n/a	1.057%	n/a	n/a	n/a
%RSD		3.469	0.901	1.334	1.330	1.401	0.568	1.215	3.623

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:55:03	106.500	75.790%	109.400	104.700	101.600	100.400	97.150	83.392%
2	01:55:11	106.800	75.769%	108.900	103.200	103.200	96.850	100.900	83.449%
3	01:55:19	103.400	77.985%	106.100	105.300	101.400	105.100	100.300	85.792%
x		105.588%	76.515%	108.125%	104.403%	102.066%	100.762%	99.423%	84.211%
σ		n/a	1.273%	n/a	n/a	n/a	n/a	n/a	1.370%
%RSD		1.762	1.664	1.631	1.023	0.980	4.089	2.000	1.626

Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	01:55:03	102.400	101.600	101.600	104.000	102.700	84.772%
2	01:55:11	102.300	101.400	103.100	104.400	103.300	85.828%
3	01:55:19	102.200	102.600	103.700	103.200	103.200	86.945%
x		102.269%	101.872%	102.786%	103.870%	103.070%	85.848%
σ		n/a	n/a	n/a	n/a	n/a	1.087%
%RSD		0.101	0.594	1.010	0.608	0.301	1.266

CCB7 10/10/2018 2:00:34 AM QC Status: PASS (Initial: PASS)

User Pre-dilution: 1.000

Run	Time	6Li	7Li	9Be	10B	11B	13C	23Na	25Mg
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:59:42	74.852%	0.826	0.039	3.754	4.187	0.000	-61.350	15.490
2	01:59:50	76.208%	-0.199	-0.030	4.732	3.754	0.000	-62.120	14.970
3	01:59:58	75.886%	-0.222	0.021	4.066	4.279	0.000	-62.950	14.760
x		75.649%	0.135	0.010	4.184	4.073	0.000	-62.140	15.080
σ		0.709%	0.598	0.036	0.500	0.281	0.000	0.802	0.375
%RSD		0.937	442.900	371.500	11.940	6.888	0.000	1.291	2.487

Run	Time	26Mg	27Al	28Si	37Cl	39K	43Ca	44Ca	45Sc
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:59:42	14.390	2.857	-122.700	0.000	73.600	23.150	12.410	76.810%
2	01:59:50	15.250	2.625	-105.600	0.000	75.340	22.880	20.470	77.187%
3	01:59:58	14.170	2.549	-125.900	0.000	68.950	13.780	17.220	77.678%
x		14.600	2.677	-118.100	0.000	72.630	19.940	16.700	77.225%
σ		0.571	0.161	10.940	0.000	3.302	5.335	4.057	0.436%
%RSD		3.908	6.003	9.263	0.000	4.547	26.760	24.290	0.564

Run	Time	47Ti	51V	52Cr	55Mn	56Fe	57Fe	59Co	60Ni
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:59:42	-0.159	0.053	-0.057	0.269	12.650	14.550	0.029	0.281
2	01:59:50	0.006	0.070	-0.018	0.273	10.890	7.974	0.017	-0.011
3	01:59:58	-0.095	0.034	0.082	0.249	10.600	19.130	0.029	0.190
x		-0.082	0.052	0.002	0.263	11.380	13.880	0.025	0.153
σ		0.083	0.018	0.072	0.013	1.110	5.606	0.007	0.150
%RSD		100.900	34.370	3267.000	4.909	9.752	40.380	27.140	97.740

Run	Time	63Cu	65Cu	66Zn	68Zn	75As	78Se	82Se	83Kr
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:59:42	0.104	0.073	0.034	-0.313	-0.018	0.105	0.663	0.000
2	01:59:50	0.061	-0.004	0.084	-0.248	0.144	-0.106	0.201	0.000
3	01:59:58	-0.022	0.069	0.340	0.018	0.074	0.101	2.016	0.000
x		0.047	0.046	0.153	-0.181	0.067	0.033	0.960	0.000
σ		0.064	0.043	0.164	0.176	0.081	0.121	0.943	0.000
%RSD		135.000	93.300	107.600	97.000	121.600	362.600	98.230	0.000

Run	Time	88Sr	89Y	95Mo	98Mo	103Rh	107Ag	109Ag	111Cd
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:59:42	-0.031	75.530%	0.899	1.112	77.117%	0.019	0.004	-0.058
2	01:59:50	0.040	76.437%	0.928	0.765	77.377%	0.005	0.004	0.020
3	01:59:58	0.040	76.920%	1.011	1.105	78.275%	0.014	0.012	0.042
x		0.016	76.296%	0.946	0.994	77.589%	0.013	0.007	0.001
σ		0.041	0.706%	0.058	0.199	0.607%	0.007	0.005	0.052
%RSD		250.800	0.925	6.125	19.990	0.783	55.590	68.230	3631.000

Run	Time	114Cd	115In	118Sn	121Sb	123Sb	135Ba	137Ba	159Tb
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
1	01:59:42	0.085	76.382%	2.498	0.557	0.475	-0.039	0.008	81.030%
2	01:59:50	0.051	77.914%	2.643	0.503	0.180	-0.039	0.008	82.277%
3	01:59:58	0.040	78.854%	2.114	0.413	0.563	-0.039	0.047	82.171%
x		0.059	77.717%	2.418	0.491	0.406	-0.039	0.021	81.826%
σ		0.024	1.248%	0.274	0.073	0.201	0.000	0.023	0.691%
%RSD		40.090	1.606	11.320	14.850	49.500	0.000	108.200	0.845

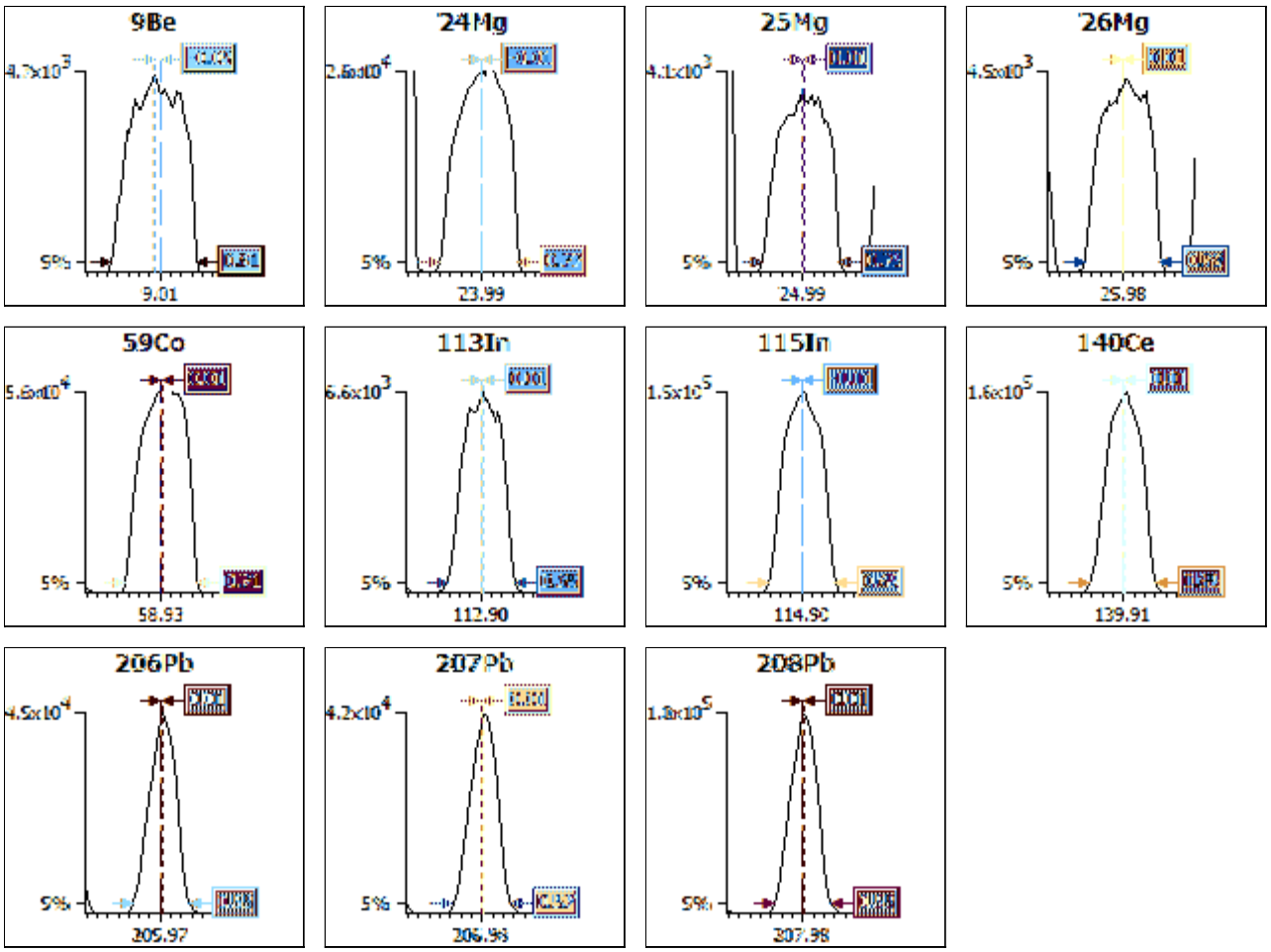
Run	Time	203Tl	205Tl	206Pb	207Pb	208Pb	209Bi
		ppb	ppb	ppb	ppb	ppb	ppb
1	01:59:42	0.127	0.205	0.002	0.015	0.033	79.338%
2	01:59:50	0.121	0.142	0.023	0.016	0.029	78.241%
3	01:59:58	0.193	0.134	0.059	-0.001	0.043	77.973%
x		0.147	0.160	0.028	0.010	0.035	78.518%
σ		0.040	0.039	0.029	0.010	0.007	0.723%
%RSD		27.340	24.300	102.700	99.070	20.930	0.921

Performance Report

Sample details
Sample name : ITUNE
Acquired at : 10/9/2018 2:22:20 PM
Report name : EPA ILMO5.2/6020A 2.1 [9/25/2018 2:59:22 PM]

Mass Calibration verification

Acquisition parameters
Sweeps : 25
Dwell : 2.0 mSecs
Point spacing : 0.02 amu
Peak width measured at 5% of the peak maximum



Analyte	Limits			Results	
	Max. width	Min. width	Max. error	Peak width	Peak error
9Be	0.90	0.45	0.10	0.81	-0.05
24Mg	0.90	0.45	0.10	0.77	-0.01
25Mg	0.90	0.45	0.10	0.75	0.01
26Mg	0.90	0.45	0.10	0.73	0.01
59Co	0.90	0.45	0.10	0.71	0.01
113In	0.90	0.45	0.10	0.65	0.01
115In	0.90	0.45	0.10	0.65	-0.01
140Ce	0.90	0.45	0.10	0.65	0.01
206Pb	0.90	0.40	0.10	0.55	0.01
207Pb	0.90	0.40	0.10	0.57	0.01
208Pb	0.90	0.40	0.10	0.55	0.01

Sample details
Sample name : ITUNE
Acquired at : 10/9/2018 2:22:20 PM
Report name : EPA ILMO5.2/6020A 2.1 [9/25/2018 2:59:22 PM]

Tune conditions

Major	
Extraction	-247
Lens 1	1.2
Focus	18.4
D1	-36.1
Pole Bias	2.0
Hexapole Bias	-1.0
Nebuliser	0.75
Sampling Depth	200

Minor	
Lens 2	-47.8
Lens 3	-195.3
Forward power	1404
Horizontal	98
Vertical	256
D2	-140
DA	-51.0
Cool	13.0
Auxiliary	0.80

Global	
Standard resolution	n/a
High resolution	n/a
Analogue Detector	n/a
PC Detector	n/a

Add. Gases	
Not Used	0.08
He/H2	0.12

Sensitivity and stability results

Acquisition parameters
Sweeps : 150

Run	Time	5Bkg	9Be	24Mg	25Mg	26Mg	56Ar O	59Co	137Ba++
Dwell (mSecs)		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Limits	%RSD	-	5.0%	5.0%	5.0%	5.0%	-	5.0%	-
	Countrate	-	>500	>500	>500	>500	-	>5000	-
1	2:23:07 PM	0	4411	26892	3693	4378	155401	58919	3
2	2:24:32 PM	0	4298	27250	3731	4373	144032	59794	4
3	2:25:58 PM	1	4476	27100	3513	4328	139419	59684	6
4	2:27:23 PM	0	4353	26618	3631	4363	138630	59305	2
5	2:28:47 PM	0	4383	26966	3621	4417	138980	60438	3
x		0	4384	26965	3638	4372	143292	59628	4
σ		0.19	66.34	237.49	83.01	31.85	7115.09	568.58	1.46
%RSD		58.310	1.513	0.881	2.282	0.729	4.965	0.954	39.123

Run	Time	138Ba++	101Bkg	113In	115In	138Ba	140Ce	156Ce O	206Pb
Dwell (mSecs)		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Limits	%RSD	-	-	5.0%	5.0%	-	5.0%	-	5.0%
	Countrate	-	-	>200	>5000	-	>10000	-	>500
1	2:23:07 PM	47	0	6766	154985	2495	162048	11343	45061
2	2:24:32 PM	50	0	6793	156968	2551	164817	11452	45898
3	2:25:58 PM	39	0	6769	156882	2204	164909	11573	45524
4	2:27:23 PM	38	0	6859	155430	2046	163816	11524	45135
5	2:28:47 PM	42	0	6865	158002	2003	167037	11673	46322
x		43	0	6810	156453	2260	164525	11513	45588
σ		5.30	0.07	48.14	1229.88	252.36	1815.46	124.54	529.64
%RSD		12.301	26.082	0.707	0.786	11.167	1.103	1.082	1.162

Run	Time	207Pb	208Pb	220Bkg
Dwell (mSecs)		0.0	0.0	0.0
Limits	%RSD	5.0%	5.0%	-
	Countrate	>500	>500	<2500
1	2:23:07 PM	41855	99010	0
2	2:24:32 PM	42059	101490	0
3	2:25:58 PM	42142	100196	0
4	2:27:23 PM	41568	99463	0
5	2:28:47 PM	42238	100732	0
x		41972	100178	0
σ		266.31	988.14	0.09
%RSD		0.635	0.986	31.044

Ratio results

Run	Time	156Ce O/140Ce
Ratio limits		<0.1000
1	2:23:07 PM	0
2	2:24:32 PM	0

3	2:25:58 PM	0
4	2:27:23 PM	0
5	2:28:47 PM	0
x		0.0700
σ		0.00
%RSD		0.4689

Result : The performance report passed.

Report Generated By Teledyne Leeman QuickTrace

Analyst: pitbal02

Worksheet file: C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\HGZ81002.wszf

Creation Date: 10/2/2018 1:59:18 PM

Comment:

Results

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	% Recovery
Calibration Blank	STD	10/02/18 02:55:24 pm	0.000	1317	1.25	40.19		N/A
Standard #1 (0.2 ug/L)	STD	10/02/18 02:56:21 pm	0.200	2956	0.79	-21.51		N/A
Standard #2 (0.5 ug/L)	STD	10/02/18 02:57:18 pm	0.500	6439	0.69	-27.51		N/A
Standard #3 (1.0 ug/L)	STD	10/02/18 02:58:16 pm	1.000	12482	0.61	-17.50		N/A
Standard #4 (5 ug/L)	STD	10/02/18 02:59:14 pm	5.000	60619	0.66	45.56		N/A
Standard #5 (10 ug/L)	STD	10/02/18 03:00:12 pm	10.000	119089	0.65	-19.23		N/A

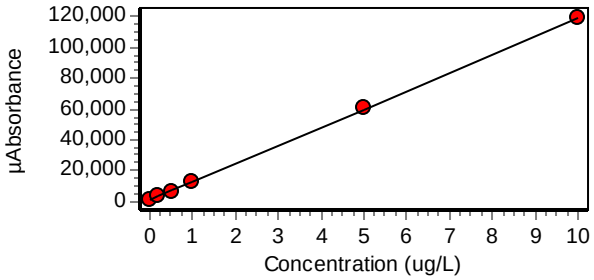
Calibration

Equation: Abs = 11847.586x + 841.270

R2: 0.99993

SEE: 442.7859

Flags:



ICV 180-258211/7-A	ICV	10/02/18 03:03:02 pm	2.517	30663	0.61			100.68
ICB 180-258211/8-A	ICB	10/02/18 03:04:02 pm	-0.067	42	2.56			N/A
CRA 180-258211/9-A	CRDL	10/02/18 03:05:01 pm	0.161	2746	0.81			80.40
CCV 180-258211/10-A	CCV	10/02/18 03:06:00 pm	5.042	60582	0.65			100.85
CCB 180-258211/11-A	CCB	10/02/18 03:06:59 pm	-0.067	42	0.97			N/A
MB 180-258404/1-A	MB	10/02/18 03:07:56 pm	-0.051	241	0.68			N/A
LCS 180-258404/2-A	LCS	10/02/18 03:08:52 pm	2.359	28790	0.96			94.36
LB 180-258066/24-C	PBK	10/02/18 03:09:49 pm	-0.054	200	2.23			N/A
180-82173-A-1-E	UNK	10/02/18 03:10:45 pm	2.552	31074	0.43			N/A
180-82173-A-1-F MS	UNK	10/02/18 03:11:42 pm	3.049	36966	0.47			N/A
180-82173-A-1-G MSD	UNK	10/02/18 03:12:39 pm	3.282	39721	0.48			N/A
180-82173-A-2-E	UNK	10/02/18 03:13:36 pm	0.622	8209	1.15			N/A
180-82173-A-3-K	UNK	10/02/18 03:14:34 pm	2.216	27097	0.39			N/A
180-82173-A-4-E	UNK	10/02/18 03:15:31 pm	0.615	8124	1.90			N/A
180-82173-A-5-E	UNK	10/02/18 03:16:29 pm	0.647	8502	0.23			N/A
CCV 180-258211/10-A	CCV	10/02/18 03:17:28 pm	5.002	60100	0.58			100.04
CCB 180-258211/11-A	CCB	10/02/18 03:18:27 pm	-0.068	38	2.26			N/A
180-82173-A-6-E	UNK	10/02/18 03:19:25 pm	0.755	9785	0.40			N/A
180-82173-A-7-E	UNK	10/02/18 03:20:23 pm	0.741	9621	0.47			N/A
180-82173-A-8-E	UNK	10/02/18 03:21:19 pm	0.611	8084	0.18			N/A
180-82173-A-9-E	UNK	10/02/18 03:22:15 pm	0.350	4983	0.43			N/A
180-82173-A-10-E	UNK	10/02/18 03:23:12 pm	0.321	4648	0.78			N/A

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	% Recovery
180-82173-A-11-E	UNK	10/02/18 03:24:09 pm	1.890	23235	0.37			N/A
180-82173-A-12-E	UNK	10/02/18 03:25:05 pm	0.717	9335	0.29			N/A
180-82173-A-13-E	UNK	10/02/18 03:26:03 pm	1.132	14254	0.45			N/A
180-82173-A-14-E	UNK	10/02/18 03:27:00 pm	0.472	6439	0.50			N/A
180-82173-A-15-E	UNK	10/02/18 03:27:57 pm	0.300	4396	0.33			N/A
CCV 180-258211/10-A	CCV	10/02/18 03:28:56 pm	4.988	59942	0.94			99.77
CCB 180-258211/11-A	CCB	10/02/18 03:29:55 pm	-0.063	96	1.01			N/A
180-82173-A-16-E	UNK	10/02/18 03:30:53 pm	0.635	8366	0.76			N/A
180-82173-A-17-E	UNK	10/02/18 03:31:51 pm	1.306	16320	0.55			N/A
180-82173-A-18-E	UNK	10/02/18 03:32:48 pm	0.275	4104	0.92			N/A
180-82173-A-19-E	UNK	10/02/18 03:33:46 pm	0.474	6458	1.05			N/A
MB 180-258400/1-A	MB	10/02/18 03:34:43 pm	-0.033	454	2.51			N/A
LCS 180-258400/2-A	LCS	10/02/18 03:35:39 pm	2.250	27498	0.30			90.00
180-82271-A-1-P	UNK	10/02/18 03:36:36 pm	-0.026	535	1.47			N/A
180-82271-A-1-Q MS	UNK	10/02/18 03:37:33 pm	0.884	11317	4.86			N/A
180-82271-A-1-R MSD	UNK	10/02/18 03:38:29 pm	0.944	12030	0.53			N/A
180-82272-A-1-D	UNK	10/02/18 03:39:26 pm	-0.026	535	2.92			N/A
CCV 180-258211/10-A	CCV	10/02/18 03:40:25 pm	4.976	59798	0.77			99.53
CCB 180-258211/11-A	CCB	10/02/18 03:41:25 pm	-0.062	101	1.11			N/A
180-82273-A-1-E	UNK	10/02/18 03:42:22 pm	-0.025	551	0.94			N/A
180-82274-A-1-E	UNK	10/02/18 03:43:19 pm	-0.027	516	4.92			N/A
180-82328-A-1-H	UNK	10/02/18 03:44:17 pm	-0.052	225	3.38			N/A
180-82328-A-3-D	UNK	10/02/18 03:45:14 pm	-0.018	633	7.64			N/A
180-82328-A-5-D	UNK	10/02/18 03:46:12 pm	-0.020	608	6.28			N/A
180-82227-A-4-D	UNK	10/02/18 03:47:10 pm	-0.031	471	2.73			N/A
180-82189-C-4-A	UNK	10/02/18 03:48:07 pm	0.122	2283	0.54			N/A
180-82203-A-1-D	UNK	10/02/18 03:49:03 pm	0.083	1824	0.96			N/A
180-82203-A-2-B	UNK	10/02/18 03:50:00 pm	0.059	1544	1.77			N/A
180-82266-A-1-D	UNK	10/02/18 03:50:57 pm	-0.058	158	2.17			N/A
CCV 180-258211/10-A	CCV	10/02/18 03:51:55 pm	4.970	59721	0.60			99.40
CCB 180-258211/11-A	CCB	10/02/18 03:52:55 pm	-0.065	72	1.94			N/A
MB 180-258395/1-A	MB	10/02/18 03:53:52 pm	-0.042	341	1.37			N/A
LCS 180-258395/2-A	LCS	10/02/18 03:54:49 pm	2.321	28343	0.45			92.85
180-82263-A-1-C	UNK	10/02/18 03:55:46 pm	-0.052	226	0.59			N/A
180-82264-A-1-C	UNK	10/02/18 03:56:43 pm	-0.047	279	4.18			N/A
180-82265-A-1-C	UNK	10/02/18 03:57:41 pm	-0.047	289	3.59			N/A
180-82205-A-1-F	UNK	10/02/18 03:58:38 pm	-0.045	306	1.62			N/A
180-82281-A-1-F	UNK	10/02/18 03:59:36 pm	-0.048	270	2.09			N/A
180-82329-A-1-F	UNK	10/02/18 04:00:34 pm	-0.050	253	3.65			N/A
180-82330-A-1-H	UNK	10/02/18 04:01:31 pm	-0.050	247	1.27			N/A
180-82330-A-1-I MS	UNK	10/02/18 04:02:28 pm	0.682	8925	0.21			N/A
CCV 180-258211/10-A	CCV	10/02/18 04:03:27 pm	4.918	59112	0.75			98.37
CCB 180-258211/11-A	CCB	10/02/18 04:04:26 pm	-0.067	45	1.44			N/A

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	% Recovery
180-82330-A-1-J MSD	UNK	10/02/18 04:05:23 pm	0.679	8884	0.55			N/A
180-82432-A-1-B	UNK	10/02/18 04:06:20 pm	-0.018	627	4.32			N/A
180-82434-A-1-B	UNK	10/02/18 04:07:17 pm	-0.038	391	1.42			N/A
180-82435-A-1-B	UNK	10/02/18 04:08:14 pm	-0.049	262	0.80			N/A
240-101855-A-1-B	UNK	10/02/18 04:09:11 pm	-0.050	246	2.13			N/A
240-101856-A-1-B	UNK	10/02/18 04:10:08 pm	-0.053	219	2.05			N/A
MB 180-258397/1-A	MB	10/02/18 04:11:06 pm	-0.040	369	3.63			N/A
LCS 180-258397/2-A	LCS	10/02/18 04:12:03 pm	2.328	28420	0.47			93.11
180-82389-A-1-D	UNK	10/02/18 04:13:01 pm	-0.051	242	0.66			N/A
180-82389-A-1-E MS	UNK	10/02/18 04:13:59 pm	0.788	10182	0.18			N/A
CRA 180-258211/9-A	CRDL	10/02/18 04:14:58 pm	0.155	2674	2.06			77.37
CCV 180-258211/10-A	CCV	10/02/18 04:15:57 pm	4.917	59095	0.74			98.34
CCB 180-258211/11-A	CCB	10/02/18 04:16:56 pm	-0.063	89	1.94			N/A
180-82389-A-1-F MSD	UNK	10/02/18 04:17:53 pm	0.796	10269	0.96			N/A
460-165506-A-1-A	UNK	10/02/18 04:18:51 pm	-0.050	251	0.84			N/A
460-165506-A-2-A	UNK	10/02/18 04:19:48 pm	-0.046	302	2.63			N/A
180-82326-A-1-C	UNK	10/02/18 04:20:45 pm	-0.050	248	1.33			N/A
180-82267-A-1-B	UNK	10/02/18 04:21:42 pm	-0.045	314	2.08			N/A
180-82267-B-3-A	UNK	10/02/18 04:22:39 pm	-0.045	312	2.93			N/A
180-82267-B-5-A	UNK	10/02/18 04:23:37 pm	-0.045	313	1.04			N/A
180-82267-C-6-A	UNK	10/02/18 04:24:34 pm	-0.020	599	3.63			N/A
180-82267-A-7-B	UNK	10/02/18 04:26:30 pm	0.000	841	575.07			N/A
180-82267-C-8-A	UNK	10/02/18 04:27:27 pm	-0.045	307	1.90			N/A
CCV 180-258211/10-A	CCV	10/02/18 04:28:26 pm	4.944	59411	0.60			98.87
CCB 180-258211/11-A	CCB	10/02/18 04:29:26 pm	-0.062	104	2.05			N/A
MB 180-258467/1-A	MB	10/02/18 04:30:24 pm	-0.043	335	2.98			N/A
LCS 180-258467/2-A	LCS	10/02/18 04:31:22 pm	2.379	29026	0.59			95.16
180-82379-A-1-A	UNK	10/02/18 04:32:19 pm	0.194	3136	0.48			N/A
180-82379-A-1-B MS	UNK	10/02/18 04:33:16 pm	1.119	14098	0.54			N/A
180-82379-A-1-C MSD	UNK	10/02/18 04:34:14 pm	1.364	17001	0.41			N/A
180-82379-A-2-A	UNK	10/02/18 04:35:11 pm	0.176	2925	2.11			N/A
180-82379-C-3-A	UNK	10/02/18 04:36:08 pm	0.016	1028	8.33			N/A
180-82446-C-1-A	UNK	10/02/18 04:37:06 pm	0.173	2887	1.40			N/A
180-82446-C-2-A	UNK	10/02/18 04:38:03 pm	0.023	1116	4.09			N/A
180-82446-C-3-A	UNK	10/02/18 04:39:01 pm	0.298	4366	1.25			N/A
CCV 180-258211/10-A	CCV	10/02/18 04:40:00 pm	4.910	59008	0.73			98.19
CCB 180-258211/11-A	CCB	10/02/18 04:41:00 pm	-0.065	67	0.32			N/A
180-82446-C-4-A	UNK	10/02/18 04:41:57 pm	0.069	1663	3.76			N/A
180-82446-C-5-A	UNK	10/02/18 04:42:55 pm	0.254	3846	0.60			N/A
180-82446-B-6-A	UNK	10/02/18 04:43:52 pm	1.164	14629	1.07			N/A
MB 180-258466/1-A	MB	10/02/18 04:44:50 pm	-0.040	368	1.66			N/A
LCS 180-258466/2-A	LCS	10/02/18 04:45:48 pm	2.370	28922	0.46			94.81
180-82162-B-2-P	UNK	10/02/18 04:46:45 pm	1.736	21412	0.12			N/A

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	% Recovery
180-82218-A-1-D	UNK	10/02/18 04:47:43 pm	0.096	1975	1.91			N/A
180-82218-A-1-E MS	UNK	10/02/18 04:48:40 pm	1.022	12944	0.44			N/A
180-82218-A-1-F MSD	UNK	10/02/18 04:49:38 pm	1.043	13195	0.65			N/A
180-82218-A-2-D	UNK	10/02/18 04:50:35 pm	0.244	3729	1.15			N/A
CCV 180-258211/10-A	CCV	10/02/18 04:51:34 pm	4.887	58740	0.70			97.74
CCB 180-258211/11-A	CCB	10/02/18 04:52:34 pm	-0.065	72	1.67			N/A
180-82218-A-3-C	UNK	10/02/18 04:53:31 pm	0.351	4999	0.81			N/A
180-82218-A-4-C	UNK	10/02/18 04:54:29 pm	0.297	4358	0.47			N/A
180-82218-A-5-C	UNK	10/02/18 04:55:26 pm	0.311	4532	0.60			N/A
180-82218-A-6-C	UNK	10/02/18 04:56:24 pm	0.280	4157	0.34			N/A
180-82218-A-7-C	UNK	10/02/18 04:57:21 pm	0.140	2499	0.56			N/A
180-82218-A-8-C	UNK	10/02/18 04:58:19 pm	0.453	6214	0.76			N/A
180-82218-A-9-C	UNK	10/02/18 04:59:17 pm	0.267	4001	0.65			N/A
180-82218-A-10-C	UNK	10/02/18 05:00:14 pm	0.113	2184	2.15			N/A
180-82086-B-1-K	UNK	10/02/18 05:01:12 pm	0.722	9390	0.68			N/A
180-82086-D-2-I	UNK	10/02/18 05:02:09 pm	0.779	10065	0.18			N/A
CCV 180-258211/10-A	CCV	10/02/18 05:03:08 pm	4.894	58818	0.81			97.87
CCB 180-258211/11-A	CCB	10/02/18 05:04:08 pm	-0.063	92	2.30			N/A
180-82086-C-3-D	UNK	10/02/18 05:05:06 pm	0.502	6793	0.62			N/A
180-82338-A-1-B	UNK	10/02/18 05:06:03 pm	0.033	1228	2.19			N/A
180-82338-A-2-B	UNK	10/02/18 05:07:01 pm	0.232	3594	0.87			N/A
180-82338-A-3-B	UNK	10/02/18 05:07:58 pm	0.043	1353	5.34			N/A
180-82338-A-4-B	UNK	10/02/18 05:08:56 pm	0.044	1367	2.72			N/A
180-82338-A-5-B	UNK	10/02/18 05:09:54 pm	0.255	3864	0.17			N/A
180-82338-A-6-B	UNK	10/02/18 05:10:52 pm	0.036	1268	3.03			N/A
MB 180-258464/1-A	MB	10/02/18 05:11:50 pm	-0.054	204	3.53			N/A
LCS 180-258464/2-A	LCS	10/02/18 05:12:47 pm	2.366	28878	0.65			94.66
180-82375-C-1-B	UNK	10/02/18 05:13:45 pm	0.338	4842	1.03			N/A
CCV 180-258211/10-A	CCV	10/02/18 05:14:44 pm	4.900	58895	0.77			98.00
CCB 180-258211/11-A	CCB	10/02/18 05:15:43 pm	-0.065	73	1.76			N/A
180-82375-A-2-B	UNK	10/02/18 05:16:41 pm	0.258	3902	0.73			N/A
180-82375-A-2-C MS	UNK	10/02/18 05:17:39 pm	1.110	13994	0.54			N/A
180-82375-A-2-D MSD	UNK	10/02/18 05:18:37 pm	1.202	15084	0.47			N/A
180-82375-A-3-B	UNK	10/02/18 05:19:35 pm	0.089	1891	1.67			N/A
180-82375-B-4-B	UNK	10/02/18 05:20:32 pm	0.304	4447	0.60			N/A
180-82375-C-5-B	UNK	10/02/18 05:21:30 pm	0.000	836	269.82			N/A
180-82375-A-6-B	UNK	10/02/18 05:22:28 pm	0.233	3598	0.88			N/A
180-82375-A-7-B	UNK	10/02/18 05:23:26 pm	0.423	5855	0.63			N/A
180-82375-A-8-B	UNK	10/02/18 05:24:23 pm	0.431	5952	0.48			N/A
180-82375-A-9-B	UNK	10/02/18 05:25:21 pm	0.277	4123	0.36			N/A
CRA 180-258211/9-A	CRDL	10/02/18 05:26:20 pm	0.171	2865	1.18			85.41
CCV 180-258211/10-A	CCV	10/02/18 05:27:19 pm	4.894	58820	0.95			97.87
CCB 180-258211/11-A	CCB	10/02/18 05:28:19 pm	-0.063	98	2.80			N/A

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	% Recovery
180-82375-A-10-D	UNK	10/02/18 05:29:17 pm	1.202	15078	0.60			N/A
180-82443-A-1-A	UNK	10/02/18 05:30:15 pm	0.191	3105	0.83			N/A
180-82453-A-1-B	UNK	10/02/18 05:31:13 pm	0.006	917	10.32			N/A
MB 180-258465/1-A	MB	10/02/18 05:32:11 pm	-0.054	199	1.95			N/A
LCS 180-258465/2-A	LCS	10/02/18 05:33:09 pm	2.357	28764	0.74			94.27
180-82494-A-1-A	UNK	10/02/18 05:34:07 pm	0.372	5254	0.54			N/A
180-82494-A-1-B MS	UNK	10/02/18 05:35:05 pm	1.160	14585	0.93			N/A
180-82494-A-1-C MSD	UNK	10/02/18 05:36:03 pm	1.314	16411	0.52			N/A
180-82494-A-3-A	UNK	10/02/18 05:37:01 pm	0.067	1636	1.81			N/A
180-82494-A-4-A	UNK	10/02/18 05:37:59 pm	0.264	3972	0.58			N/A
CCV 180-258211/10-A	CCV	10/02/18 05:38:58 pm	4.881	58666	0.90			97.61
CCB 180-258211/11-A	CCB	10/02/18 05:39:58 pm	-0.062	111	1.27			N/A
180-82494-A-8-A	UNK	10/02/18 05:40:56 pm	0.341	4876	0.44			N/A
180-82494-A-9-A	UNK	10/02/18 05:41:54 pm	0.336	4816	0.71			N/A
180-82494-A-10-A	UNK	10/02/18 05:42:52 pm	0.038	1294	4.47			N/A
180-82381-A-1-A	UNK	10/02/18 05:43:50 pm	0.196	3160	1.16			N/A
180-82381-A-2-A	UNK	10/02/18 05:44:48 pm	0.232	3595	1.20			N/A
180-82381-A-3-A	UNK	10/02/18 05:45:46 pm	0.190	3092	0.52			N/A
180-82381-A-4-A	UNK	10/02/18 05:46:44 pm	0.272	4060	0.39			N/A
180-82381-A-5-A	UNK	10/02/18 05:47:42 pm	0.241	3698	0.60			N/A
180-82381-A-6-A	UNK	10/02/18 05:48:40 pm	0.556	7432	0.72			N/A
180-82381-A-7-A	UNK	10/02/18 05:49:38 pm	-0.006	771	8.95			N/A
CCV 180-258211/10-A	CCV	10/02/18 05:50:37 pm	4.887	58741	0.77			97.74
CCB 180-258211/11-A	CCB	10/02/18 05:51:37 pm	-0.058	157	2.03			N/A
180-82381-A-8-A	UNK	10/02/18 05:52:35 pm	-0.008	750	9.71			N/A
180-82381-A-9-A	UNK	10/02/18 05:53:33 pm	0.136	2453	0.74			N/A
180-82437-A-1-A	UNK	10/02/18 05:54:31 pm	0.211	3339	1.31			N/A
180-82437-A-2-A	UNK	10/02/18 05:55:29 pm	0.220	3446	0.62			N/A
180-82437-A-3-A	UNK	10/02/18 05:56:27 pm	0.300	4399	0.81			N/A
CRA 180-258211/9-A	CRDL	10/02/18 05:57:26 pm	0.170	2851	1.03			84.83
CCV 180-258211/10-A	CCV	10/02/18 05:58:25 pm	4.888	58749	0.87			97.75
CCB 180-258211/11-A	CCB	10/02/18 05:59:25 pm	-0.058	154	1.85			N/A

METALS BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Batch Number: 258603 Batch Start Date: 10/02/18 15:30 Batch Analyst: Marfisi, Nicole A

Batch Method: 3050B Batch End Date: 10/03/18 17:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MS-C 00004	MTAPITTICPMS 00031	TA-SPIKE2 00001	
MB 180-258603/1		3050B, EPA 6020A		2.0 g	100 mL				
LCS 180-258603/2		3050B, EPA 6020A		2.0 g	100 mL	1 mL	1 mL	1 mL	
180-82502-B-5 MS		3050B, EPA 6020A	T	1.96 g	100 mL	1 mL	1 mL	1 mL	
180-82502-B-5 MSD		3050B, EPA 6020A	T	2.04 g	100 mL	1 mL	1 mL	1 mL	
180-82446-C-1	POS-SED-S12-S1 (0-0.5')	3050B, EPA 6020A	T	2.01 g	100 mL				
180-82446-C-2	POS-SED-S12-S2 (5-10')	3050B, EPA 6020A	T	2.02 g	100 mL				
180-82446-B-3	POS-SED-R14-S1 (0-0.5')	3050B, EPA 6020A	T	1.98 g	100 mL				
180-82446-C-4	POS-SED-R14-S2 (5-10')	3050B, EPA 6020A	T	1.99 g	100 mL				
180-82446-B-5	POS-SED-L15-S1 (0-0.5')	3050B, EPA 6020A	T	1.99 g	100 mL				
180-82446-C-6	POS-SED-L15-S2 (5-10')	3050B, EPA 6020A	T	1.98 g	100 mL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Batch Number: 258603 Batch Start Date: 10/02/18 15:30 Batch Analyst: Marfisi, Nicole A

Batch Method: 3050B Batch End Date: 10/03/18 17:30

Batch Notes	
Balance ID	B417532814
Batch Comment	METALS D7
Blank Soil Lot Number	1736518
Digestion Unit ID	HB9
Digestion Tube/Cup ID	ENVEXPRESS 1802043
Filter ID	FISHER 9814481
Hydrogen Peroxide ID	10 mL 2889037
Hydrochloric Acid ID	10 mL 2912738
Nitric Acid ID	5 mL 2914745 10 mL 2925416
Nominal Amount Used	2.0 g
Pipette/Syringe/Dispenser ID	B614292745
Analyst ID - Spike Analyst	NAM
Sufficient Volume for Batch QC	YES
Thermometer ID	3113130 CF0.0 C3
Temperature - Uncorrected - End	90 Degrees C
Temperature - Uncorrected - Start	90 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Batch Number: 258211 Batch Start Date: 09/28/18 09:30 Batch Analyst: Kalamasz, Kayla A

Batch Method: 7470A Batch End Date: 09/28/18 10:15

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MHgworkingCal 01884	MHgWorkingicv 01847		
ICV 180-258211/7		7470A, EPA 7471B		100 mL	100 mL		2.5 mL		
ICB 180-258211/8		7470A, EPA 7471B		100 mL	100 mL				
CRA 180-258211/9		7470A, EPA 7471B		100 mL	100 mL	0.2 mL			
CCV 180-258211/10		7470A, EPA 7471B		100 mL	100 mL	5 mL			
CCB 180-258211/11		7470A, EPA 7471B		100 mL	100 mL				

Batch Notes	
Batch Comment	5ML 2923066 // HG-DISP-05C4676
Temperature - Corrected - End	95 Degrees C
Temperature - Corrected - Start	95C Degrees C
Digestion End Time	10/02/2018 1015
Digestion Start Time	10/02/2018 0930
Digestion Unit ID	HB2
Hydroxylamine ID	6ML 2916680 HG-DISP-C6
Potassium Persulfate ID	8ML 2912168 HG-DISP-KS4
Potassium Permanganate ID	15ML 2919758 HG-DISP-KMNO4
Pipette/Syringe/Dispenser ID	B637018916 B720115069
Analyst ID - Spike Analyst	KAK
Analyst ID - Spike Witness Analyst	KAK
Thermometer ID	IP29-14 CF0.0 E5
Digestion Tube/Cup ID	ENVEXPRESS 1804377
Temperature - Uncorrected - End	95 Degrees C
Temperature - Uncorrected - Start	95C Degrees C

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Batch Number: 258467 Batch Start Date: 10/02/18 10:35 Batch Analyst: Kalamasz, Kayla A

Batch Method: 7471B Batch End Date: 10/02/18 11:20

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MHgworkingCal 01884			
MB 180-258467/1		7471B, EPA 7471B		1.2 g	100 mL				
LCS 180-258467/2		7471B, EPA 7471B		1.2 g	100 mL	2.5 mL			
180-82379-A-1 MS		7471B, EPA 7471B	T	1.18 g	100 mL	1 mL			
180-82379-A-1 MSD		7471B, EPA 7471B	T	1.21 g	100 mL	1 mL			
180-82446-C-1	POS-SED-S12-S1 (0-0.5')	7471B, EPA 7471B	T	1.20 g	100 mL				
180-82446-C-2	POS-SED-S12-S2 (5-10')	7471B, EPA 7471B	T	1.19 g	100 mL				
180-82446-C-3	POS-SED-R14-S1 (0-0.5')	7471B, EPA 7471B	T	1.25 g	100 mL				
180-82446-C-4	POS-SED-R14-S2 (5-10')	7471B, EPA 7471B	T	1.18 g	100 mL				
180-82446-C-5	POS-SED-L15-S1 (0-0.5')	7471B, EPA 7471B	T	1.18 g	100 mL				
180-82446-B-6	POS-SED-L15-S2 (5-10')	7471B, EPA 7471B	T	1.21 g	100 mL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Batch Number: 258467 Batch Start Date: 10/02/18 10:35 Batch Analyst: Kalamasz, Kayla A

Batch Method: 7471B Batch End Date: 10/02/18 11:20

Batch Notes	
Balance ID	B417532814
Batch Comment	8ML 2912168 HG-DISP-KS4 // 5ML 2923066 // HG-DISP-05C4676
Blank Matrix ID	1736518
Temperature - Corrected - End	98 Degrees C
Temperature - Corrected - Start	95 Degrees C
Digestion End Time	10/02/2018 11:20
Digestion Start Time	10/02/2018 10:35
Digestion Unit ID	HB1
Hydroxylamine ID	6ML 2916680 HG-DISP-C6
Potassium Permanganate ID	15ML 2919758 HG-DISP-KMNO4
Nominal Amount Used	1.2 g
Pipette/Syringe/Dispenser ID	B614292745 F1204715U
Analyst ID - Spike Analyst	KAK
Analyst ID - Spike Witness Analyst	KAK
Sufficient Volume for Batch QC	YES
Thermometer ID	IP30-14 CF0.0 E5
Digestion Tube/Cup ID	ENVEXPRESS 1804377
Temperature - Uncorrected - End	98 Degrees C
Temperature - Uncorrected - Start	95 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Pittsburgh Job Number: 180-82446-1

SDG No.:

Project: Harbor Isle

Client Sample ID	Lab Sample ID
POS-SED-S12-S1 (0-0.5')	180-82446-1
POS-SED-S12-S2 (5-10')	180-82446-2
POS-SED-R14-S1 (0-0.5')	180-82446-3
POS-SED-R14-S2 (5-10')	180-82446-4
POS-SED-L15-S1 (0-0.5')	180-82446-5
POS-SED-L15-S2 (5-10')	180-82446-6

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: POS-SED-S12-S1 (0-0.5')
Lab Sample ID: 180-82446-1
Lab Name: TestAmerica Pittsburgh
Job No.: 180-82446-1
SDG ID.:
Matrix: Sediment
Date Sampled: 09/27/2018 10:20
Reporting Basis: DRY
Date Received: 09/28/2018 09:00
% Solids: 83.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-44-0	Total Organic Carbon - Duplicates	2180	1200	898	mg/Kg			1	EPA-Lloyd Kahn

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: POS-SED-S12-S2 (5-10')
Lab Sample ID: 180-82446-2
Lab Name: TestAmerica Pittsburgh
Job No.: 180-82446-1
SDG ID.:
Matrix: Sediment
Date Sampled: 09/27/2018 10:45
Reporting Basis: DRY
Date Received: 09/28/2018 09:00
% Solids: 77.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-44-0	Total Organic Carbon - Duplicates	3050	1290	964	mg/Kg			1	EPA-Lloyd Kahn

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: POS-SED-R14-S1 (0-0.5')
Lab Sample ID: 180-82446-3
Lab Name: TestAmerica Pittsburgh
Job No.: 180-82446-1
SDG ID.:
Matrix: Sediment
Date Sampled: 09/27/2018 13:35
Reporting Basis: DRY
Date Received: 09/28/2018 09:00
% Solids: 71.7

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-44-0	Total Organic Carbon - Duplicates	5060	1390	1040	mg/Kg			1	EPA-Lloyd Kahn

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: POS-SED-R14-S2 (5-10')
Lab Sample ID: 180-82446-4
Lab Name: TestAmerica Pittsburgh
Job No.: 180-82446-1
SDG ID.:
Matrix: Sediment
Date Sampled: 09/27/2018 13:35
Reporting Basis: DRY
Date Received: 09/28/2018 09:00
% Solids: 69.8

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-44-0	Total Organic Carbon - Duplicates	9530	1430	1070	mg/Kg			1	EPA-Lloyd Kahn

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: POS-SED-L15-S1 (0-0.5')
Lab Sample ID: 180-82446-5
Lab Name: TestAmerica Pittsburgh
Job No.: 180-82446-1
SDG ID.:
Matrix: Sediment
Date Sampled: 09/27/2018 15:20
Reporting Basis: DRY
Date Received: 09/28/2018 09:00
% Solids: 81.8

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-44-0	Total Organic Carbon - Duplicates	2640	1220	912	mg/Kg			1	EPA-Lloyd Kahn

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: POS-SED-L15-S2 (5-10')
Lab Sample ID: 180-82446-6
Lab Name: TestAmerica Pittsburgh
Job No.: 180-82446-1
SDG ID.:
Matrix: Sediment
Date Sampled: 09/27/2018 15:30
Reporting Basis: DRY
Date Received: 09/28/2018 09:00
% Solids: 63.4

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-44-0	Total Organic Carbon - Duplicates	12300	1580	1180	mg/Kg			1	EPA-Lloyd Kahn

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Analyst: JBF Batch Start Date: 10/03/2018

Reporting Units: mg/Kg Analytical Batch No.: 258786

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	13:57	Total Organic Carbon - Duplicates	8713	10000	87	85-115		LKTOCKHPL1_00025
2	CCB	14:03	Total Organic Carbon - Duplicates	746				U	
13	CCV	15:52	Total Organic Carbon - Duplicates	9153	10000	91	85-115		LKTOCKHPL1_00025
14	CCB	15:57	Total Organic Carbon - Duplicates	746				U	
25	CCV	17:44	Total Organic Carbon - Duplicates	9542	10000	95	85-115		LKTOCKHPL1_00025
26	CCB	17:49	Total Organic Carbon - Duplicates	746				U	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Analyst: JBF Batch Start Date: 10/04/2018

Reporting Units: mg/Kg Analytical Batch No.: 258943

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	15:02	Total Organic Carbon - Duplicates	9246	10000	92	85-115		LKTOCKHPL1_00025
2	CCB	15:09	Total Organic Carbon - Duplicates	746				U	
13	CCV	17:06	Total Organic Carbon - Duplicates	9869	10000	98	85-115		LKTOCKHPL1_00025
14	CCB	17:11	Total Organic Carbon - Duplicates	746				U	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 258786 Date: 10/03/2018 14:08							
EPA-Lloyd Kahn	MB 180-258786/3	Total Organic Carbon - Duplicates	746	U	mg/Kg	1000	1
Batch ID: 258943 Date: 10/04/2018 15:14							
EPA-Lloyd Kahn	MB 180-258943/3	Total Organic Carbon - Duplicates	746	U	mg/Kg	1000	1

FORM III-IN

5-IN
MATRIX SPIKE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Matrix: Sediment

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 258786 Date: 10/03/2018 14:41											
EPA-Lloyd Kahn	180-82502-B-5	Total Organic Carbon - Duplicates	2250		mg/Kg						
EPA-Lloyd Kahn	180-82502-B-5 MS	Total Organic Carbon - Duplicates	25230		mg/Kg	28400	81	75-125			

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM V-IN

5-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Matrix: Sediment

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 258786 Date: 10/03/2018 14:51											
EPA-Lloyd Kahn	180-82502-B-5 MSD	Total Organic Carbon - Duplicates	23370		mg/Kg	27100	78	75-125	8	20	

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM V-IN

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Matrix: Sediment

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 258786 Date: 10/03/2018 15:01								
EPA-Lloyd Kahn		180-82502-E-5	Total Organic Carbon - Duplicates	2250	mg/Kg			
EPA-Lloyd Kahn		180-82502-E-5 DU	Total Organic Carbon - Duplicates	2519	mg/Kg	11	20	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Matrix: Sediment

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 258786		Date: 10/03/2018 14:18									
						LCS Source: LKTOCSRM_00035					
EPA-Lloyd Kahn	LCS 180-258786/4	Total Organic Carbon - Duplicates	30800		mg/Kg	37800	81	75-125			
Batch ID: 258943		Date: 10/04/2018 15:25									
						LCS Source: LKTOCSRM_00035					
EPA-Lloyd Kahn	LCS 180-258943/4	Total Organic Carbon - Duplicates	30500		mg/Kg	37800	81	75-125			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Pittsburgh Job Number: 180-82446-1

SDG Number:

Matrix: Sediment Instrument ID: NOEQUIP

Method: 3550B RL Date: 01/31/2010 13:27

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

FORM IX - IN

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Pittsburgh Job Number: 180-82446-1

SDG Number:

Matrix: Sediment Instrument ID: NOEQUIP

Method: 3550B XRL Date: 01/31/2010 13:31

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Pittsburgh Job Number: 180-82446-1

SDG Number:

Matrix: Sediment Instrument ID: FLASHEA

Method: EPA-Lloyd Kahn MDL Date: 03/09/2017 16:58

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Total Organic Carbon - Duplicates		1000	746

FORM IX - IN

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Pittsburgh Job Number: 180-82446-1

SDG Number:

Matrix: Sediment Instrument ID: FLASHEA

Method: EPA-Lloyd Kahn XMDL Date: 03/09/2017 16:58

Analyte	Wavelength/ Mass	XRL (mg/Kg)	XMDL (mg/Kg)
Total Organic Carbon - Duplicates		1000	746

FORM IX - IN

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Instrument ID: NOEQUIP Method: 3550B

Start Date: 10/10/2018 10:28 End Date: 10/10/2018 10:28

Lab Sample ID	D/F	Type	Time	Analytes																			
				% Sol	Moist																		
ZZZZZZ			10:28																				
ZZZZZZ			10:28																				
ZZZZZZ			10:28																				
ZZZZZZ			10:28																				
ZZZZZZ			10:28																				
ZZZZZZ			10:28																				
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ZZZZZZ			10:28																				
180-82446-1	1	T	10:28	X	X																		
180-82446-2	1	T	10:28	X	X																		
180-82446-3	1	T	10:28	X	X																		
ZZZZZZ			10:28																				
180-82446-4	1	T	10:28	X	X																		
180-82446-4 DU	1	T	10:28	X	X																		

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Instrument ID: NOEQUIP Method: 3550B

Start Date: 10/10/2018 11:06 End Date: 10/10/2018 11:06

Lab Sample ID	D/F	Type	Time	Analytes																			
				% Sol	Moist																		
180-82446-5	1	T	11:06	X	X																		
180-82446-5 DU	1	T	11:06	X	X																		
180-82446-6	1	T	11:06	X	X																		
ZZZZZZ			11:06																				
ZZZZZZ			11:06																				
ZZZZZZ			11:06																				
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ZZZZZZ			11:06																				

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Instrument ID: FLASHEA Method: EPA-Lloyd Kahn

Start Date: 10/03/2018 13:57 End Date: 10/03/2018 18:09

Lab Sample ID	D/F	Type	Time	Analytes																			
				TOCD																			
CCV 180-258786/1	1		13:57	X																			
CCB 180-258786/2	1		14:03	X																			
MB 180-258786/3	1	T	14:08	X																			
LCS 180-258786/4	1	T	14:18	X																			
ZZZZZZ			14:30																				
180-82502-B-5 MS	1	T	14:41	X																			
180-82502-B-5 MSD	1	T	14:51	X																			
180-82502-E-5 DU	1	T	15:01	X																			
ZZZZZZ			15:11																				
ZZZZZZ			15:21																				
ZZZZZZ			15:31																				
ZZZZZZ			15:42																				
CCV 180-258786/13	1		15:52	X																			
CCB 180-258786/14	1		15:57	X																			
180-82446-2	1	T	16:02	X																			
ZZZZZZ			16:13																				
180-82446-4	1	T	16:23	X																			
180-82446-5	1	T	16:33	X																			
180-82446-6	1	T	16:43	X																			
ZZZZZZ			16:53																				
ZZZZZZ			17:03																				
ZZZZZZ			17:13																				
ZZZZZZ			17:24																				
ZZZZZZ			17:34																				
CCV 180-258786/25	1		17:44	X																			
CCB 180-258786/26	1		17:49	X																			
ZZZZZZ			17:54																				
CCV 180-258786/28			18:04																				
CCB 180-258786/29			18:09																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

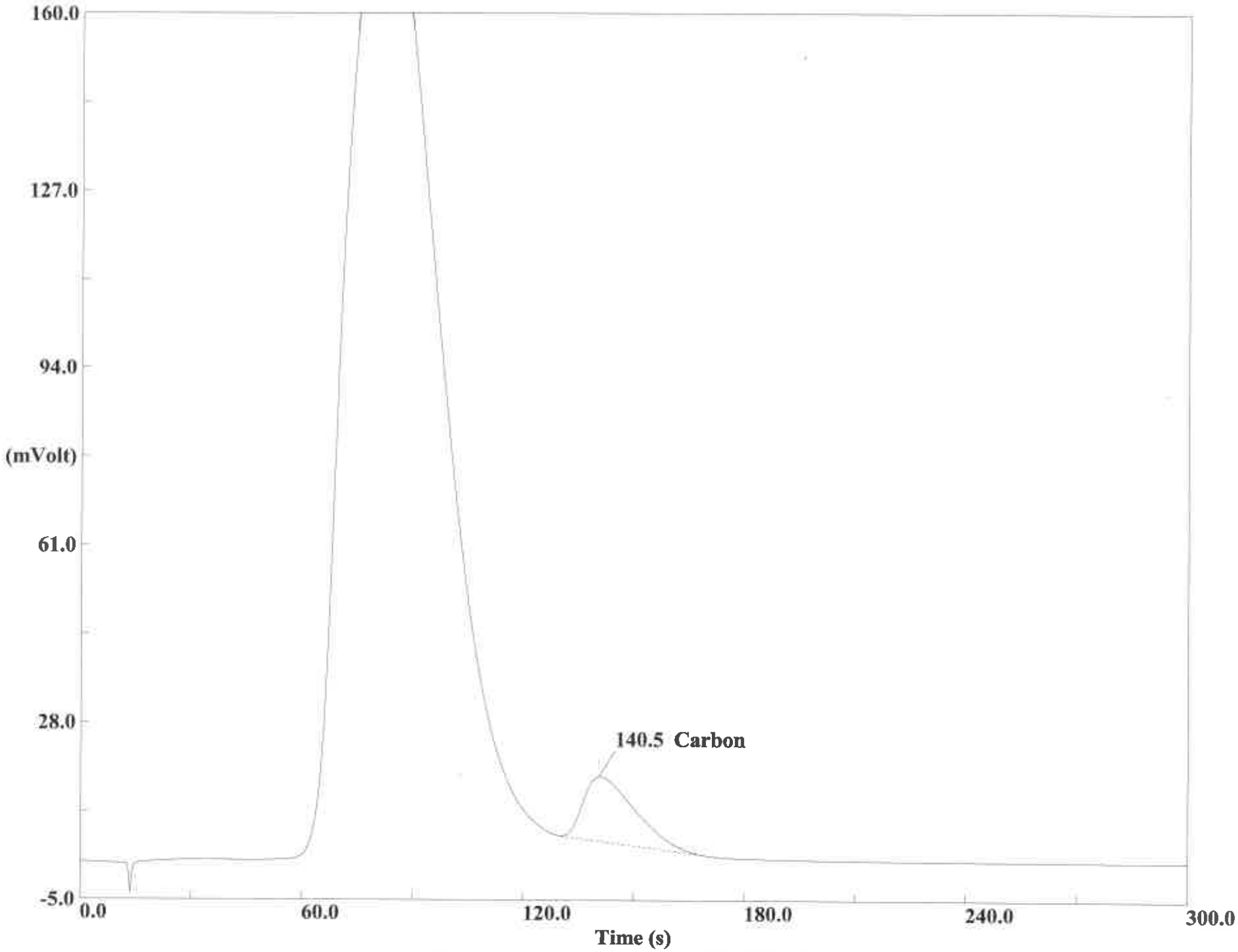
Instrument ID: FLASHEA Method: EPA-Lloyd Kahn

Start Date: 10/04/2018 15:02 End Date: 10/04/2018 19:43

Lab Sample ID	D/F	Type	Time	Analytes																			
				TOCD																			
CCV 180-258943/1	1		15:02	X																			
CCB 180-258943/2	1		15:09	X																			
MB 180-258943/3	1	T	15:14	X																			
LCS 180-258943/4	1	T	15:25	X																			
ZZZZZZ			15:45																				
ZZZZZZ			15:55																				
ZZZZZZ			16:05																				
ZZZZZZ			16:15																				
180-82446-3	1	T	16:26	X																			
180-82446-1	1	T	16:36	X																			
ZZZZZZ			16:46																				
ZZZZZZ			16:56																				
CCV 180-258943/13	1		17:06	X																			
CCB 180-258943/14	1		17:11	X																			
ZZZZZZ			17:16																				
ZZZZZZ			17:26																				
ZZZZZZ			17:37																				
ZZZZZZ			17:47																				
ZZZZZZ			17:57																				
ZZZZZZ			18:07																				
ZZZZZZ			18:17																				
ZZZZZZ			18:27																				
ZZZZZZ			18:37																				
ZZZZZZ			18:48																				
CCV 180-258943/25			18:58																				
CCB 180-258943/26			19:03																				
ZZZZZZ			19:08																				
ZZZZZZ			19:18																				
ZZZZZZ			19:28																				
CCV 180-258943/30			19:38																				
CCB 180-258943/31			19:43																				

Prep Types
T = Total/NA

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318001.DAT
Sample name :ccv Analysed :10/03/2018 13:57

Eager 300 Report

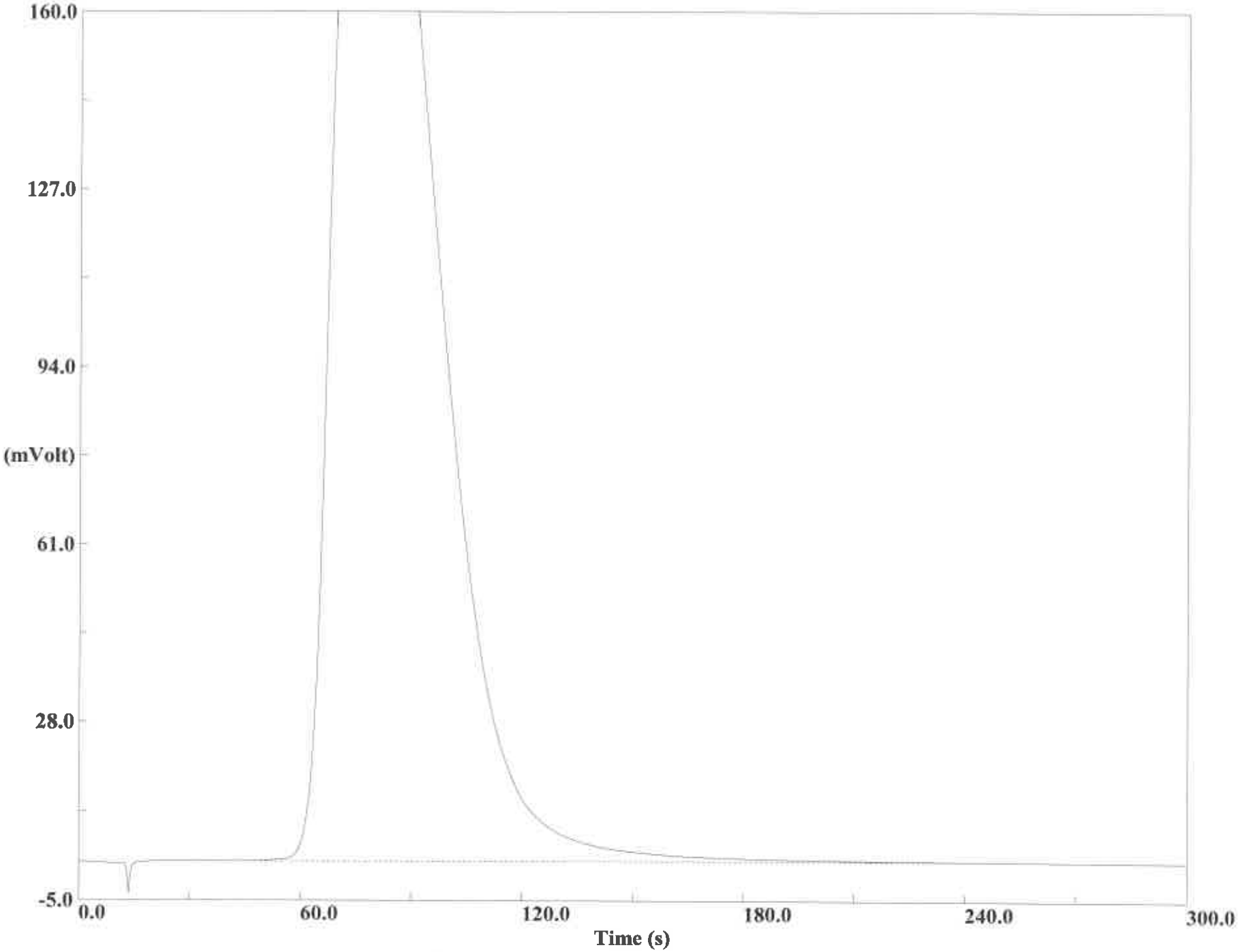
Page: 1 Sample: ccv (A100318001)

Method Name : Lloyd Kahn
Method File : C:\data\January\100318.mth
Chromatogram : A100318001
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 13:57 Printed : 10/4/2018 08:51
Sample ID : ccv (# 14)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 100

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.8713	141	1971092	mi	1.000000	

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318002.DAT
Sample name :ccb Analysed :10/03/2018 14:03

Eager 300 Report

Page: 1 Sample: ccb (A100318002)

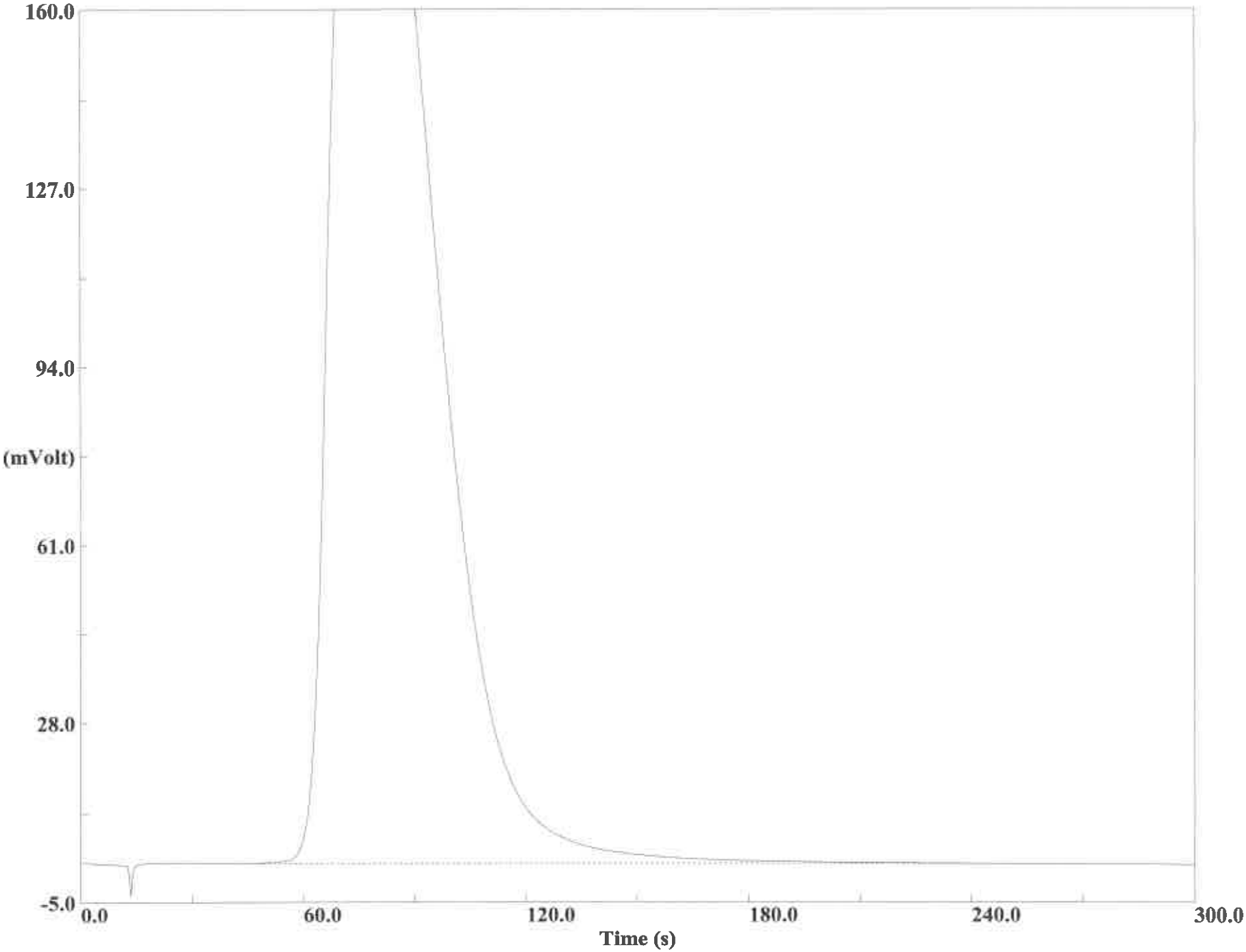
Method Name : Lloyd Kahn
Method File : C:\data\January\100318.mth
Chromatogram : A100318002
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 14:03 Printed : 10/4/2018 08:51
Sample ID : ccb (# 15)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20

Calib. method : using 'Least Squares to Linear fit'

!!! Warning missing one or more peaks.

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318003.DAT
Sample name :mb Analysed :10/03/2018 14:08

Eager 300 Report

Page: 1 Sample: mb (A100318003)

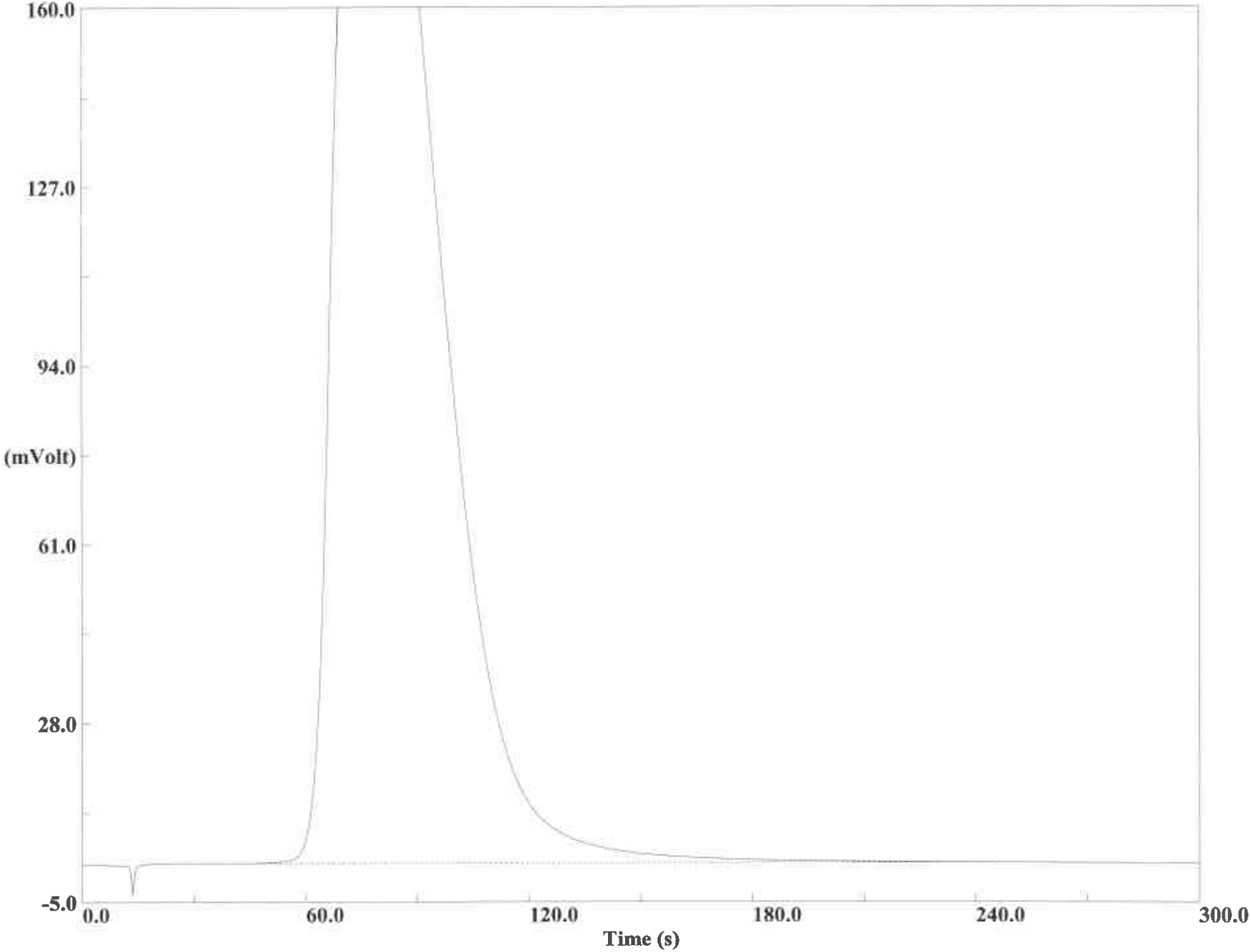
Method Name : Lloyd Kahn
Method File : C:\data\January\100318.mth
Chromatogram : A100318003
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 14:08 Printed : 10/4/2018 08:51
Sample ID : mb (# 16)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 21.9

Calib. method : using 'Least Squares to Linear fit'

!!! Warning missing one or more peaks.

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318004.DAT
Sample name :mb Analysed :10/03/2018 14:13

Eager 300 Report

Page: 1 Sample: mb (A100318004)

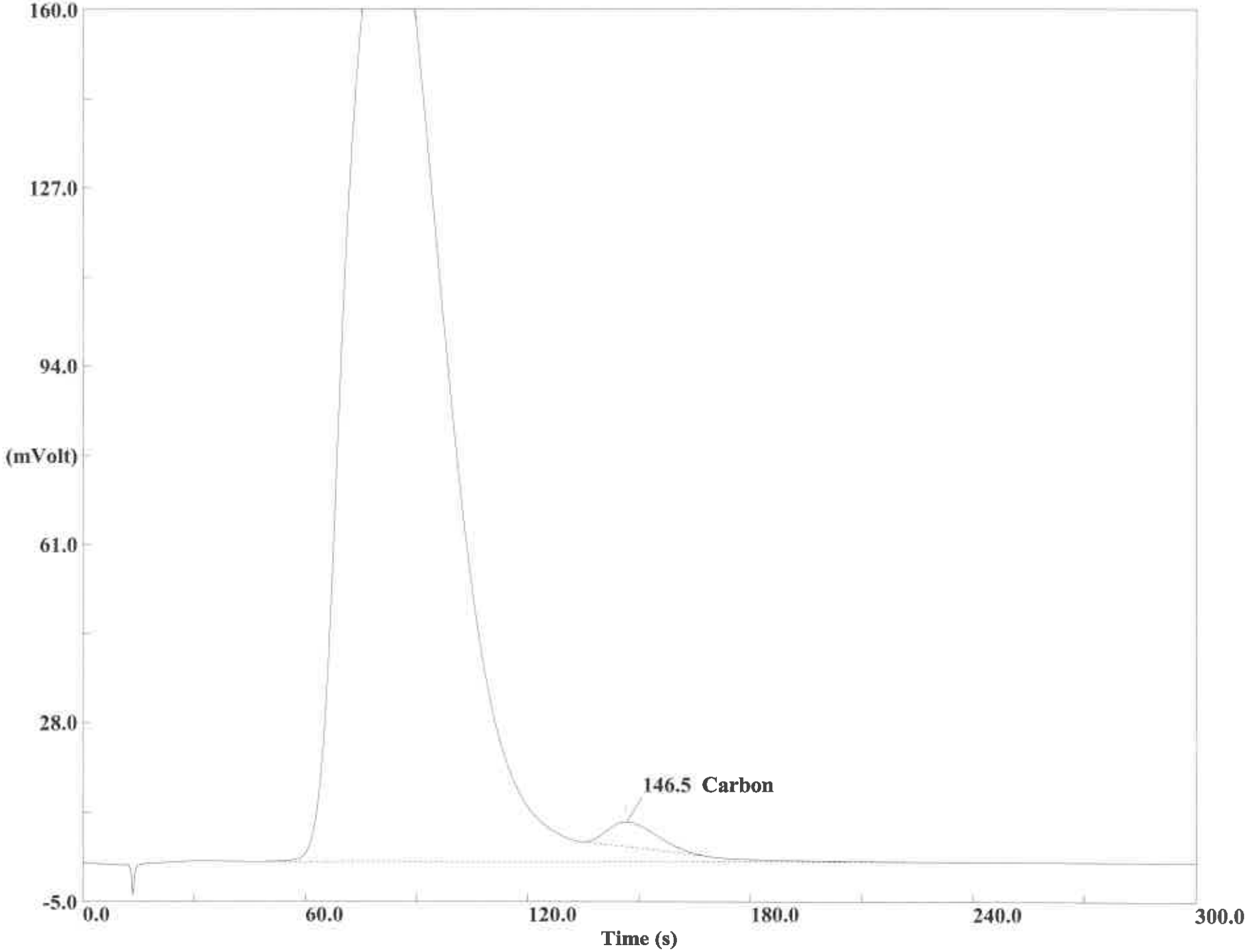
Method Name : Lloyd Kahn
Method File : C:\data\January\100318.mth
Chromatogram : A100318004
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 14:13 Printed : 10/4/2018 08:51
Sample ID : mb (# 17)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 21.2

Calib. method : using 'Least Squares to Linear fit'

!!! Warning missing one or more peaks.

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318005.DAT
Sample name :lcs Analysed :10/03/2018 14:18

Eager 300 Report

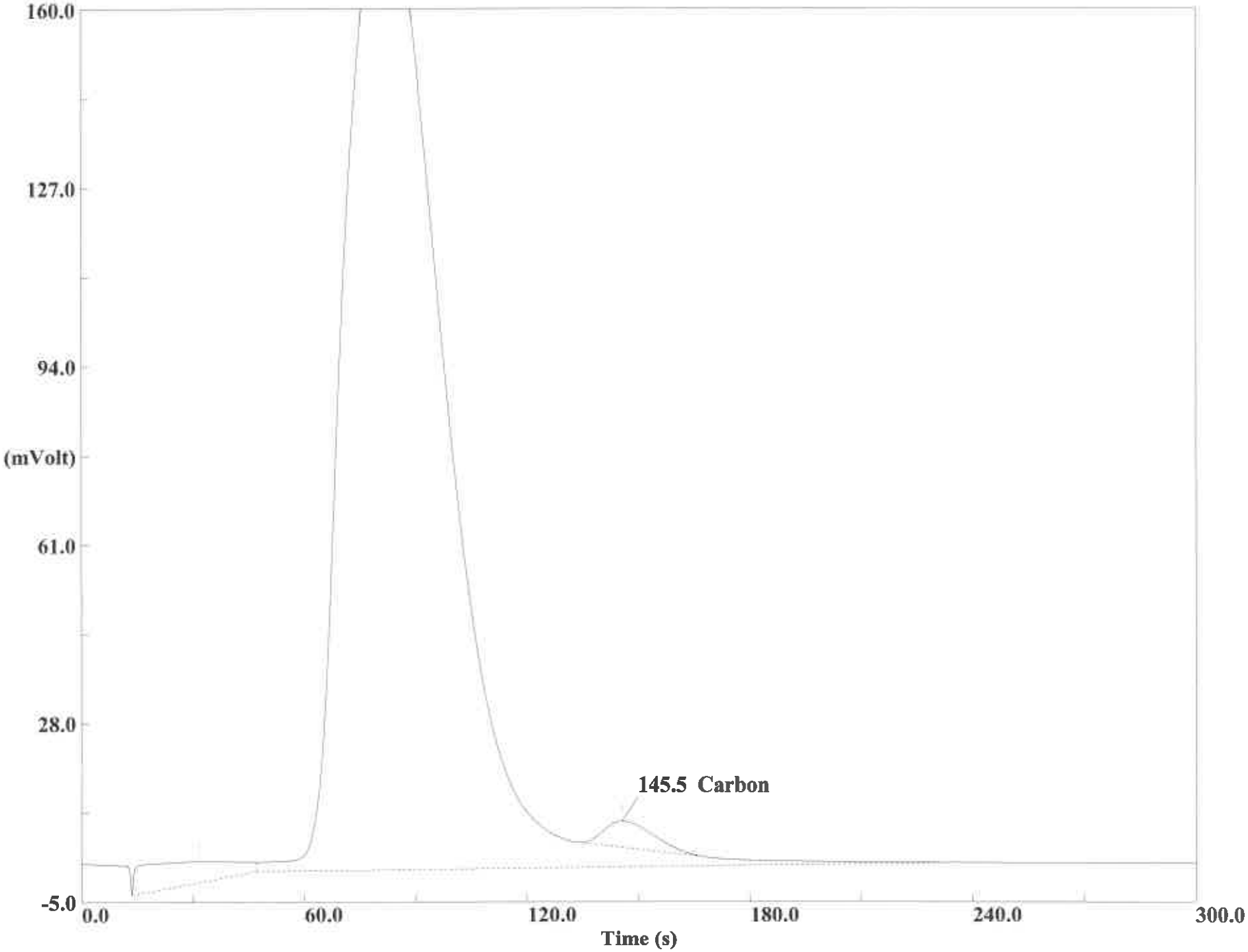
Page: 1 Sample: lcs (A100318005)

Method Name : Lloyd Kahn
Method File : C:\data\January\100318.mth
Chromatogram : A100318005
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 14:18 Printed : 10/4/2018 08:51
Sample ID : lcs (# 18)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 10.8

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	3.0019	147	694382	CR	1.000000	

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318006.DAT
Sample name :lcs Analysed :10/03/2018 14:25

Eager 300 Report

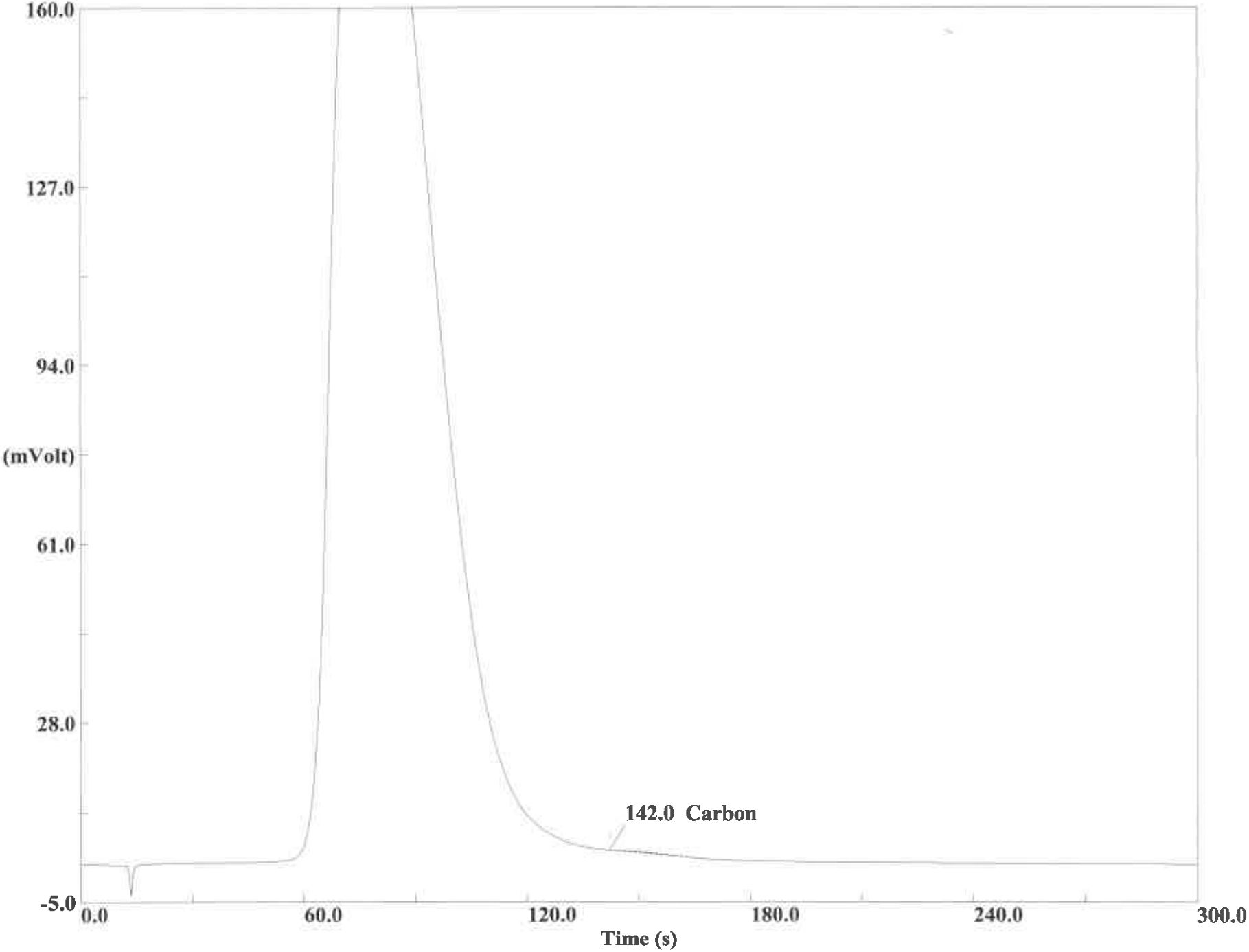
Page: 1 Sample: lcs (A100318006)

Method Name : Lloyd Kahn
Method File : C:\data\January\100318.mth
Chromatogram : A100318006
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 14:25 Printed : 10/4/2018 08:51
Sample ID : lcs (# 19)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 11

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	3.1564	146	748063	CR	1.000000	

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318007.DAT
Sample name :180-82502-b-5 Analysed :10/03/2018 14:30

Eager 300 Report

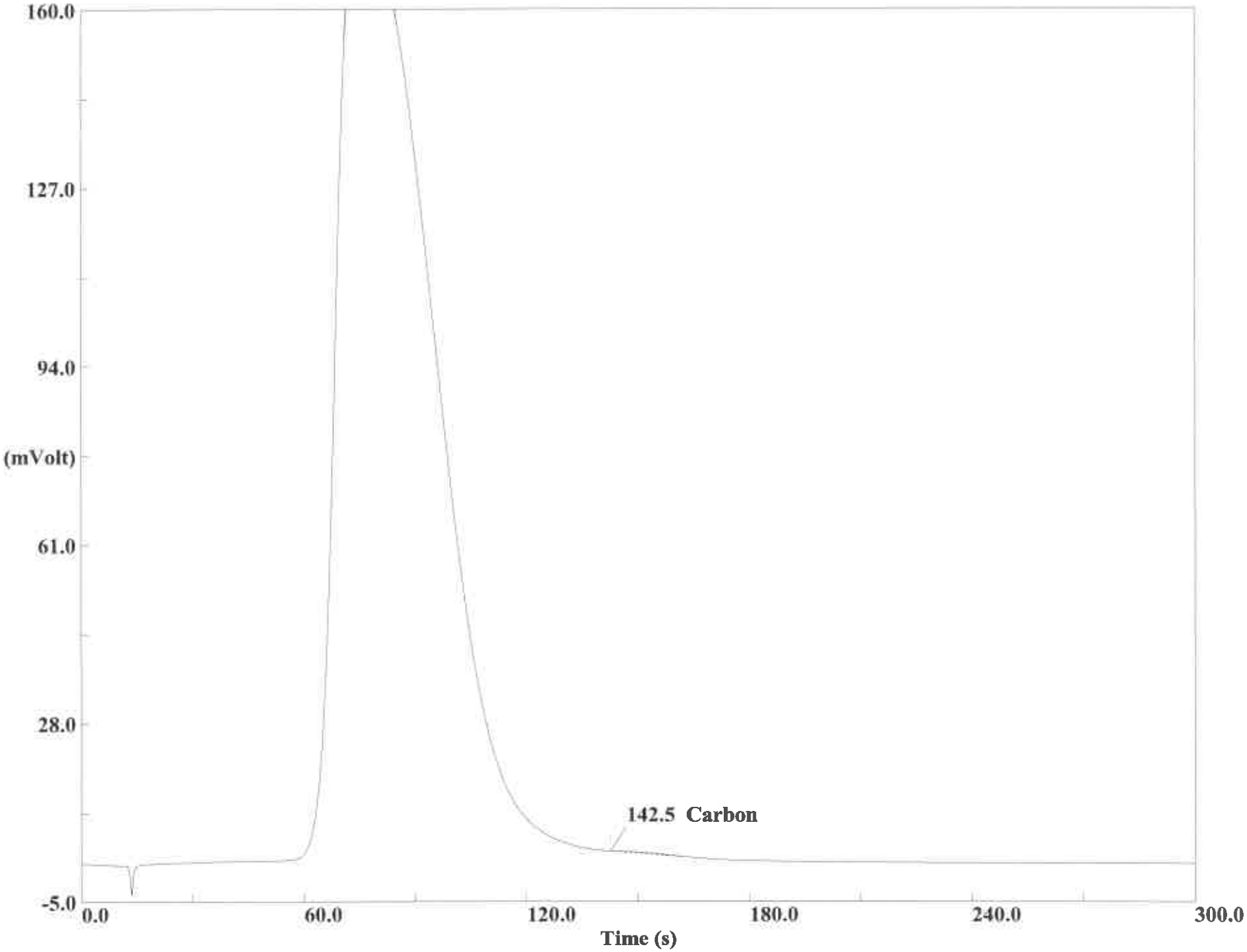
Page: 1 Sample: 180-82502-b-5 (A100318007)

Method Name : Lloyd Kahn
Method File : C:\data\January\100318.mth
Chromatogram : A100318007
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 14:30 Printed : 10/4/2018 08:51
Sample ID : 180-82502-b-5 (# 20)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 21.4

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.1597	142	17517	mi	1.000000	

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318008.DAT
Sample name :180-82502-b-5 Analysed :10/03/2018 14:36

Eager 300 Report

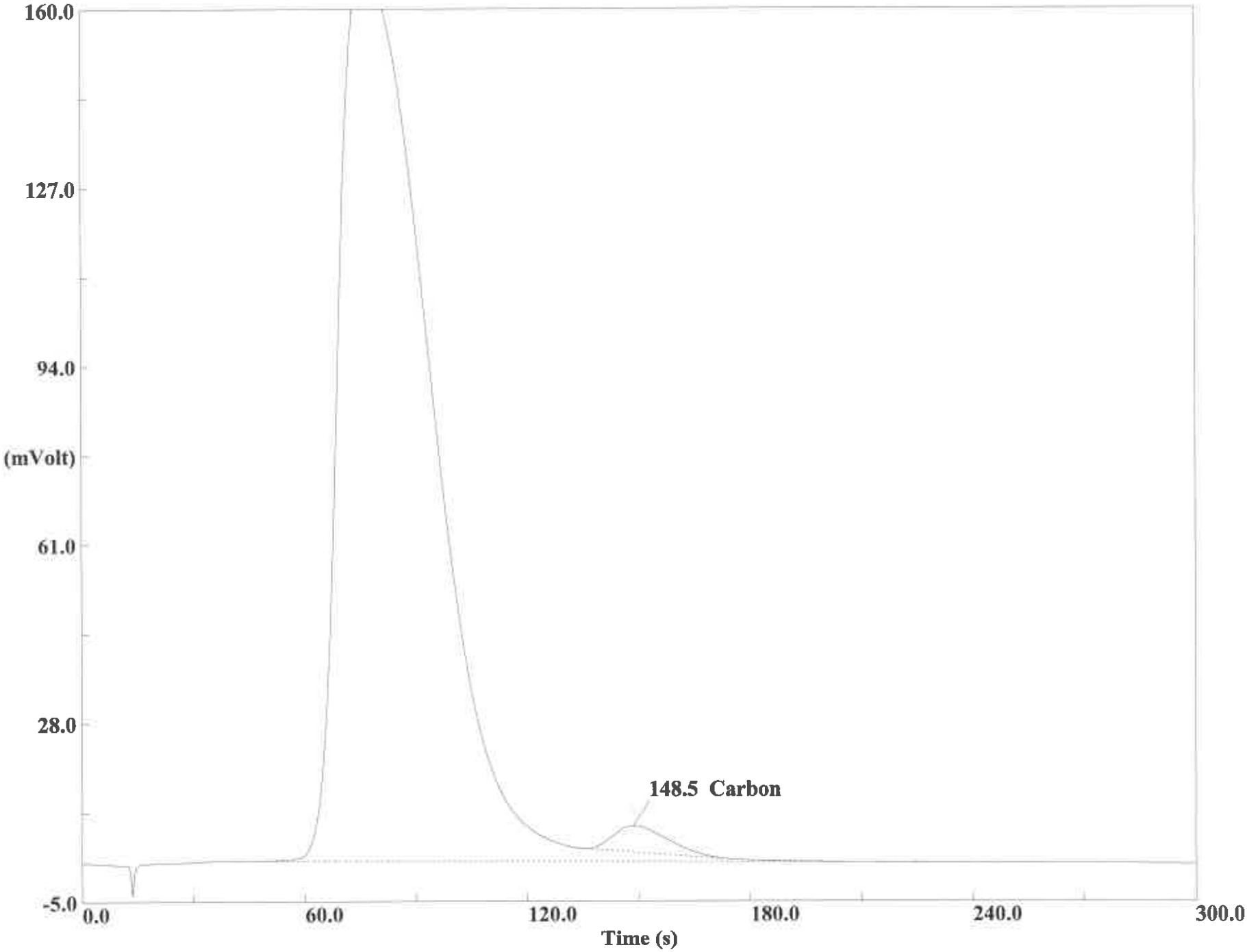
Page: 1 Sample: 180-82502-b-5 (A100318008)

Method Name : Lloyd Kahn
Method File : C:\data\January\100318.mth
Chromatogram : A100318008
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 14:36 Printed : 10/4/2018 08:51
Sample ID : 180-82502-b-5 (# 21)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 21.4

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.1760	143	25656	mi	1.000000	

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318009.DAT
Sample name :180-82502-b-5 ms Analysed :10/03/2018 14:41

Eager 300 Report

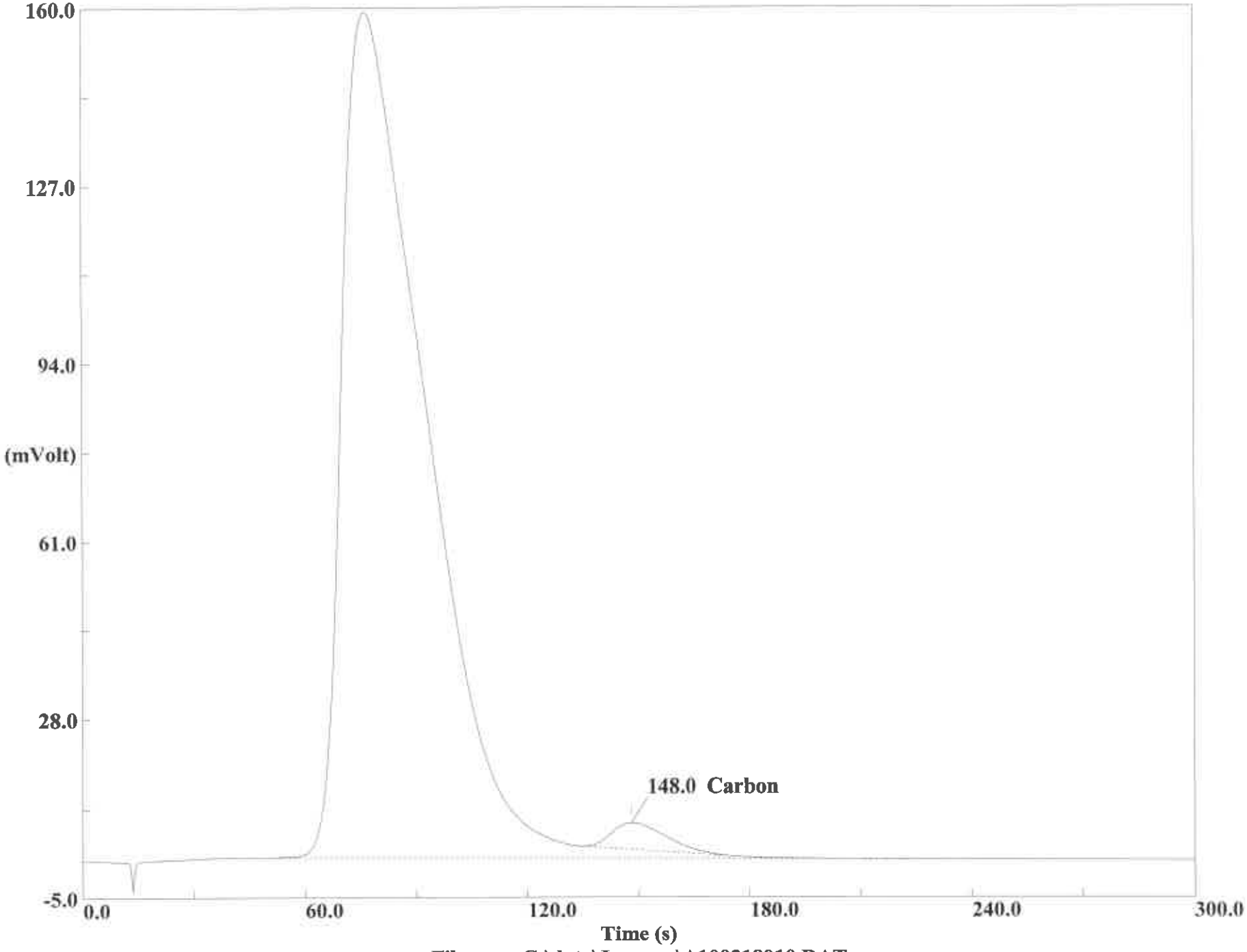
Page: 1 Sample: 180-82502-b-5 ms (A100318009)

Method Name : Lloyd Kahn
Method File : C:\data\January\100318.mth
Chromatogram : A100318009
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 14:41 Printed : 10/4/2018 08:51
Sample ID : 180-82502-b-5 ms (# 22)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20.1

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	1.8598	149	810171	CR	1.000000	

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318010.DAT
Sample name :180-82502-b-5 ms Analysed :10/03/2018 14:46

Eager 300 Report

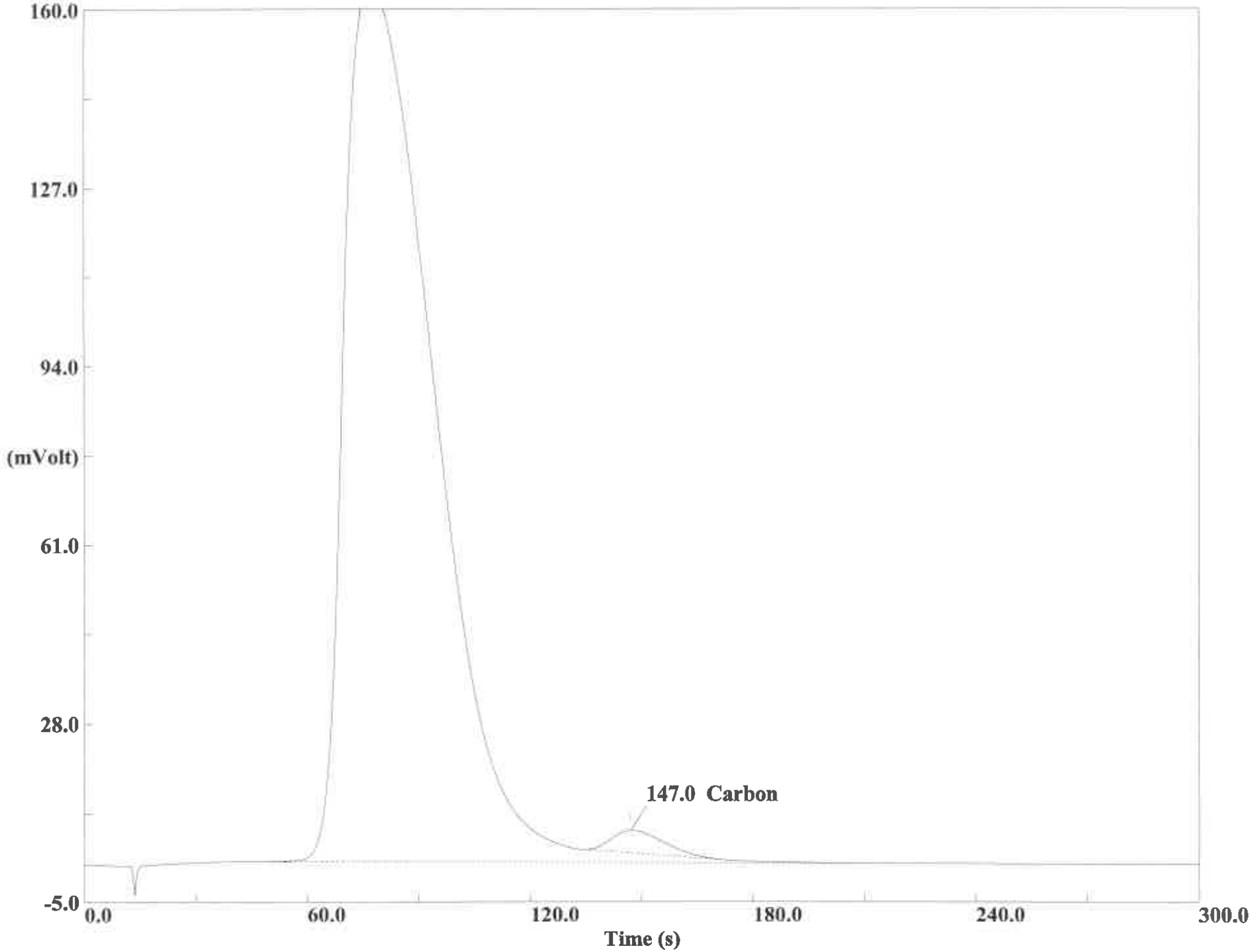
Page: 1 Sample: 180-82502-b-5 ms (A100318010)

Method Name : Lloyd Kahn
Method File : C:\data\January\100318.mth
Chromatogram : A100318010
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 14:46 Printed : 10/4/2018 08:51
Sample ID : 180-82502-b-5 ms (# 23)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	1.9045	148	826711	CR	1.000000	

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318011.DAT
Sample name :180-82502-b-5 msd Analysed :10/03/2018 14:51

Eager 300 Report

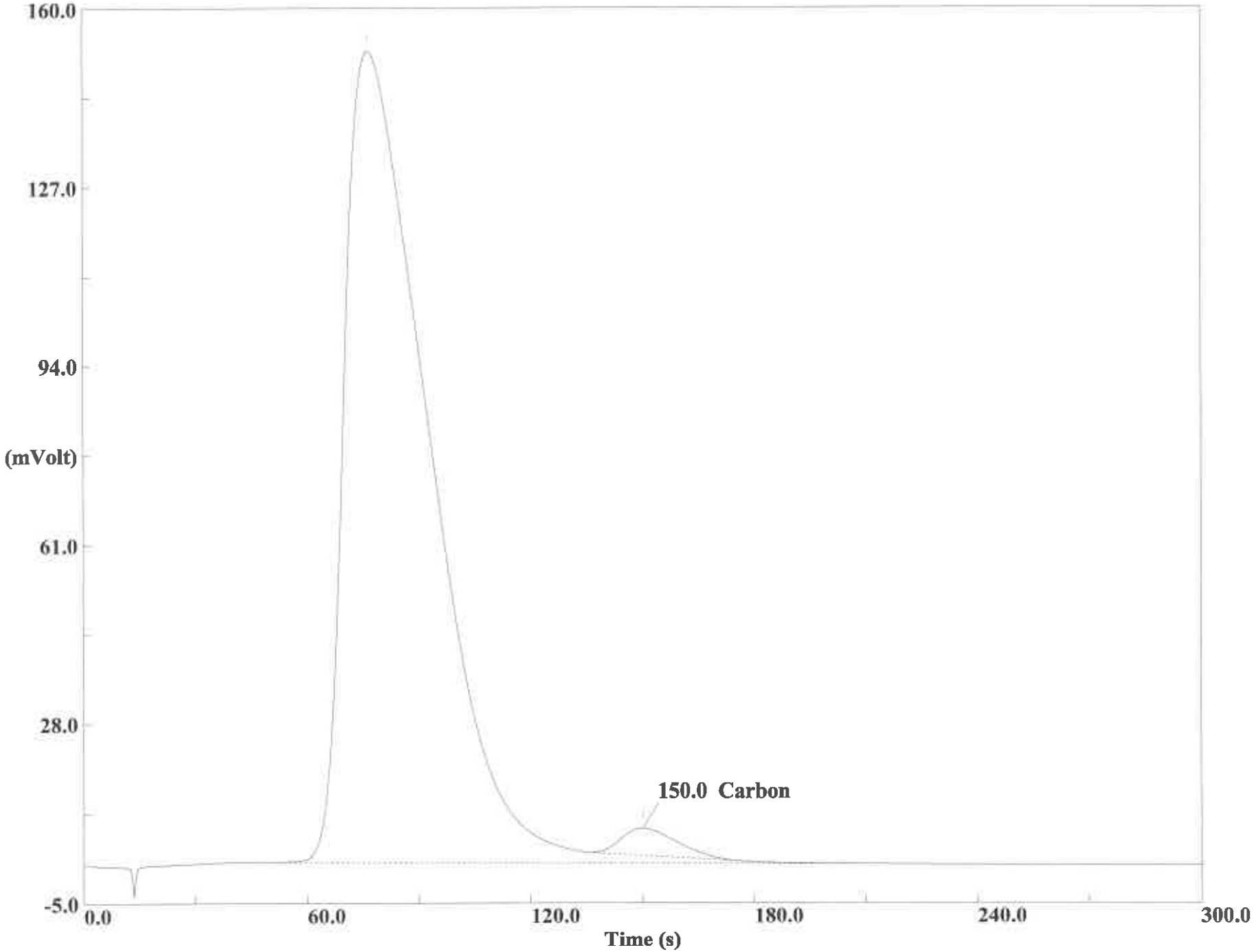
Page: 1 Sample: 180-82502-b-5 msd (A100318011)

Method Name : Lloyd Kahn
Method File : C:\data\January\100318.mth
Chromatogram : A100318011
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 14:51 Printed : 10/4/2018 08:51
Sample ID : 180-82502-b-5 msd (# 24)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20.3

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	1.5468	147	670557	CR	1.000000	

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318012.DAT
Sample name :180-82502-b-5 msd Analysed :10/03/2018 14:56

Eager 300 Report

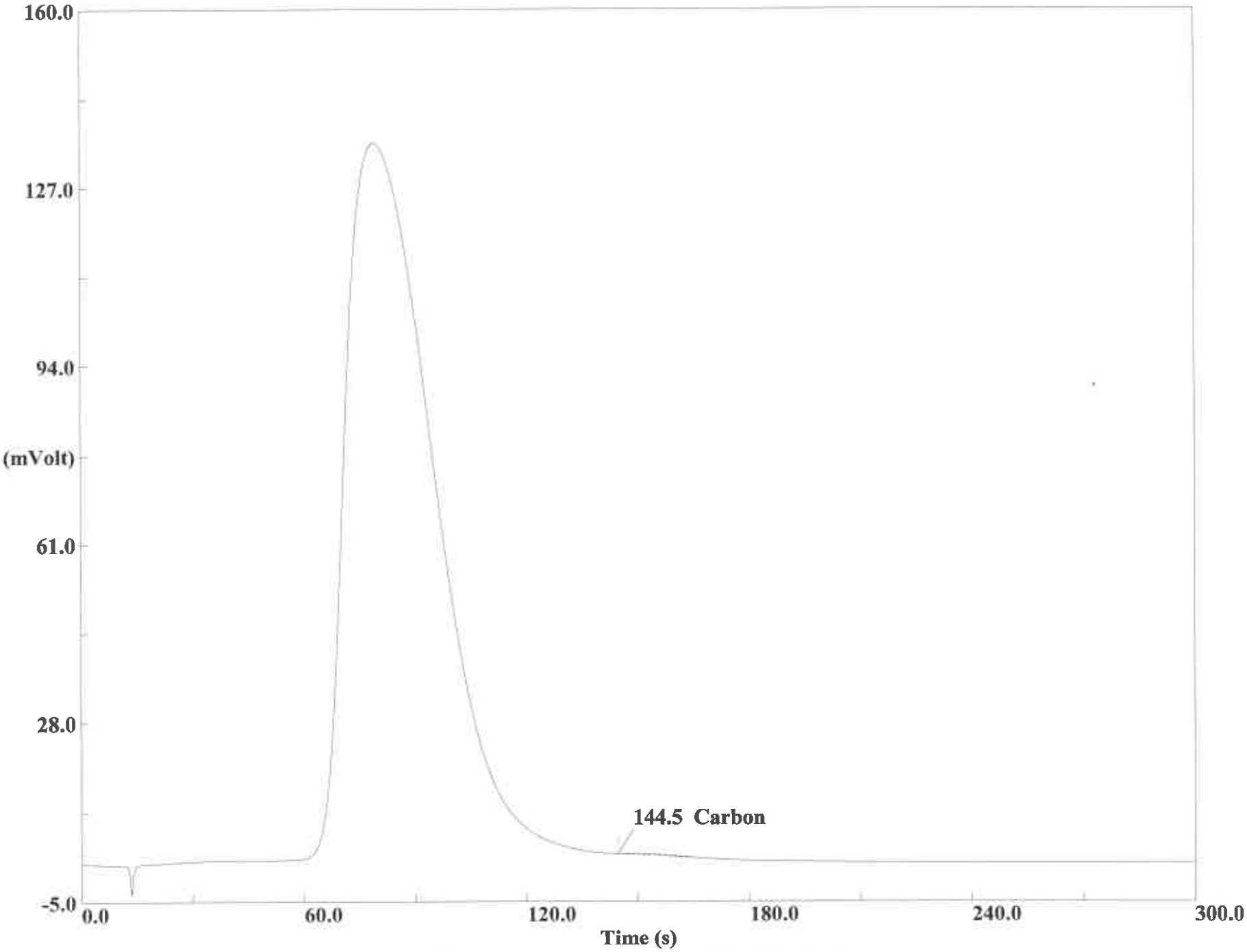
Page: 1 Sample: 180-82502-b-5 msd (A100318012)

Method Name : Lloyd Kahn
Method File : C:\data\January\100318.mth
Chromatogram : A100318012
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 14:56 Printed : 10/4/2018 08:51
Sample ID : 180-82502-b-5 msd (# 25)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20.5

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	1.9379	150	864902	CR	1.000000	

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318013.DAT
Sample name :180-82502-e-5 du Analysed :10/03/2018 15:01

Eager 300 Report

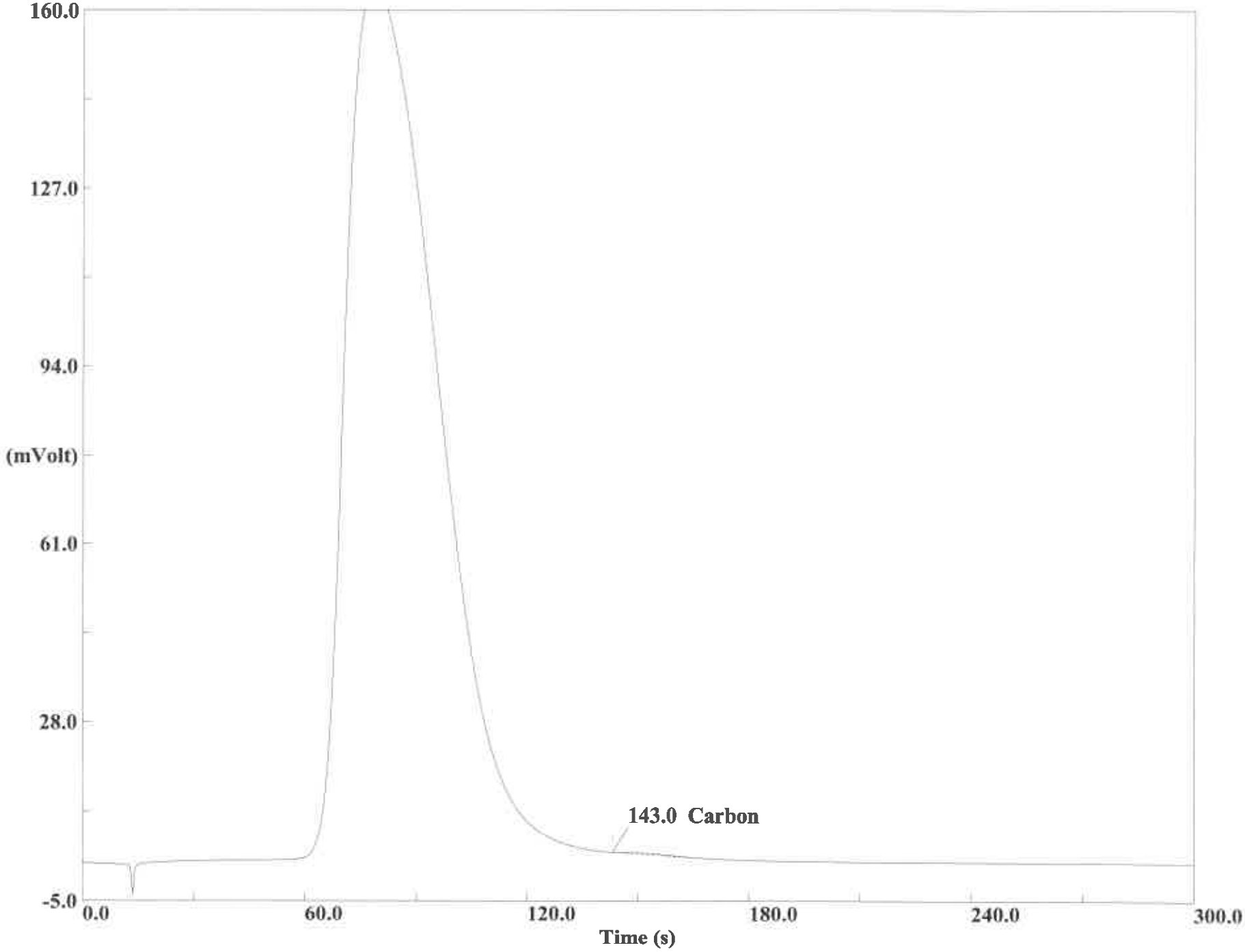
Page: 1 Sample: 180-82502-e-5 du (A100318013)

Method Name : Lloyd Kahn
Method File : C:\data\January\100318.mth
Chromatogram : A100318013
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 15:01 Printed : 10/4/2018 08:51
Sample ID : 180-82502-e-5 du (# 26)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20.9

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.1931	145	31935	mi	1.000000	

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318014.DAT
Sample name :180-82502-e-5 du Analysed :10/03/2018 15:06

Eager 300 Report

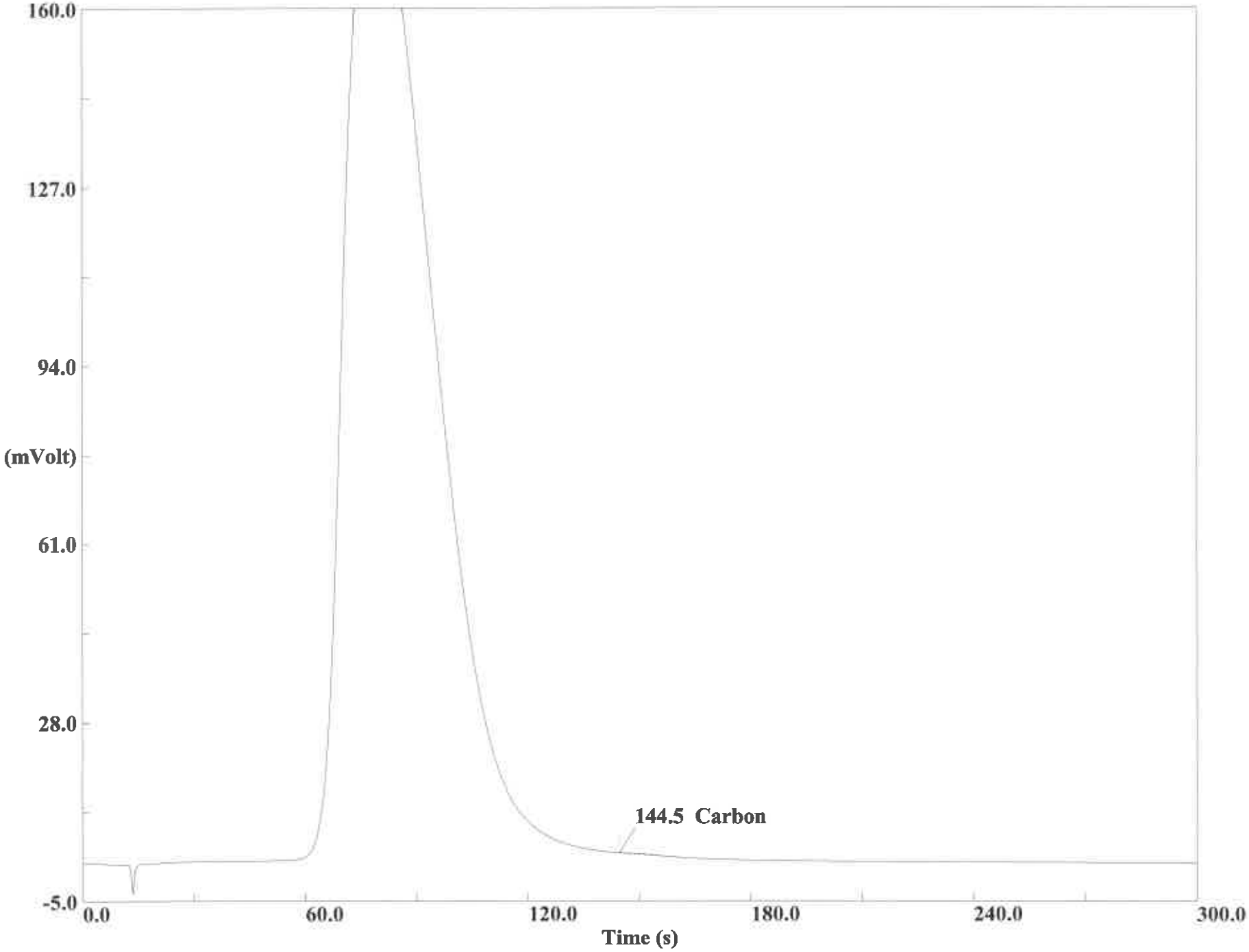
Page: 1 Sample: 180-82502-e-5 du (A100318014)

Method Name : Lloyd Kahn
Method File : C:\data\January\100318.mth
Chromatogram : A100318014
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 15:06 Printed : 10/4/2018 08:51
Sample ID : 180-82502-e-5 du (# 27)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20.9

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.1828	143	26938	mi	1.000000	

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318015.DAT
Sample name :180-82379-a-1 Analysed :10/03/2018 15:11

Eager 300 Report

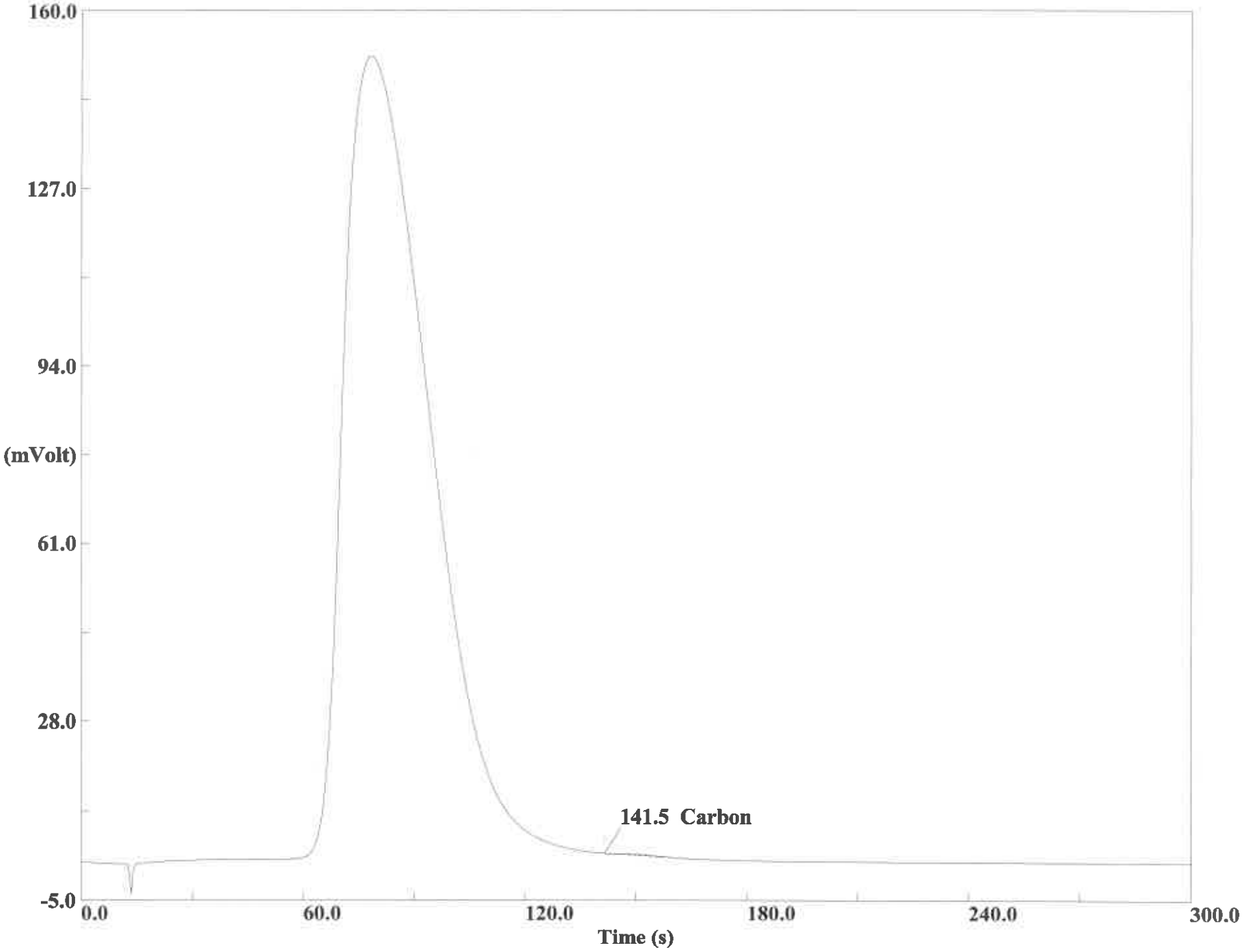
Page: 1 Sample: 180-82379-a-1 (A100318015)

Method Name : Lloyd Kahn
Method File : C:\data\January\100318.mth
Chromatogram : A100318015
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 15:11 Printed : 10/4/2018 08:51
Sample ID : 180-82379-a-1 (# 28)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 21.3

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.1352	145	4993	mi	1.000000	

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318016.DAT
Sample name :180-82379-a-1 Analysed :10/03/2018 15:16

Eager 300 Report

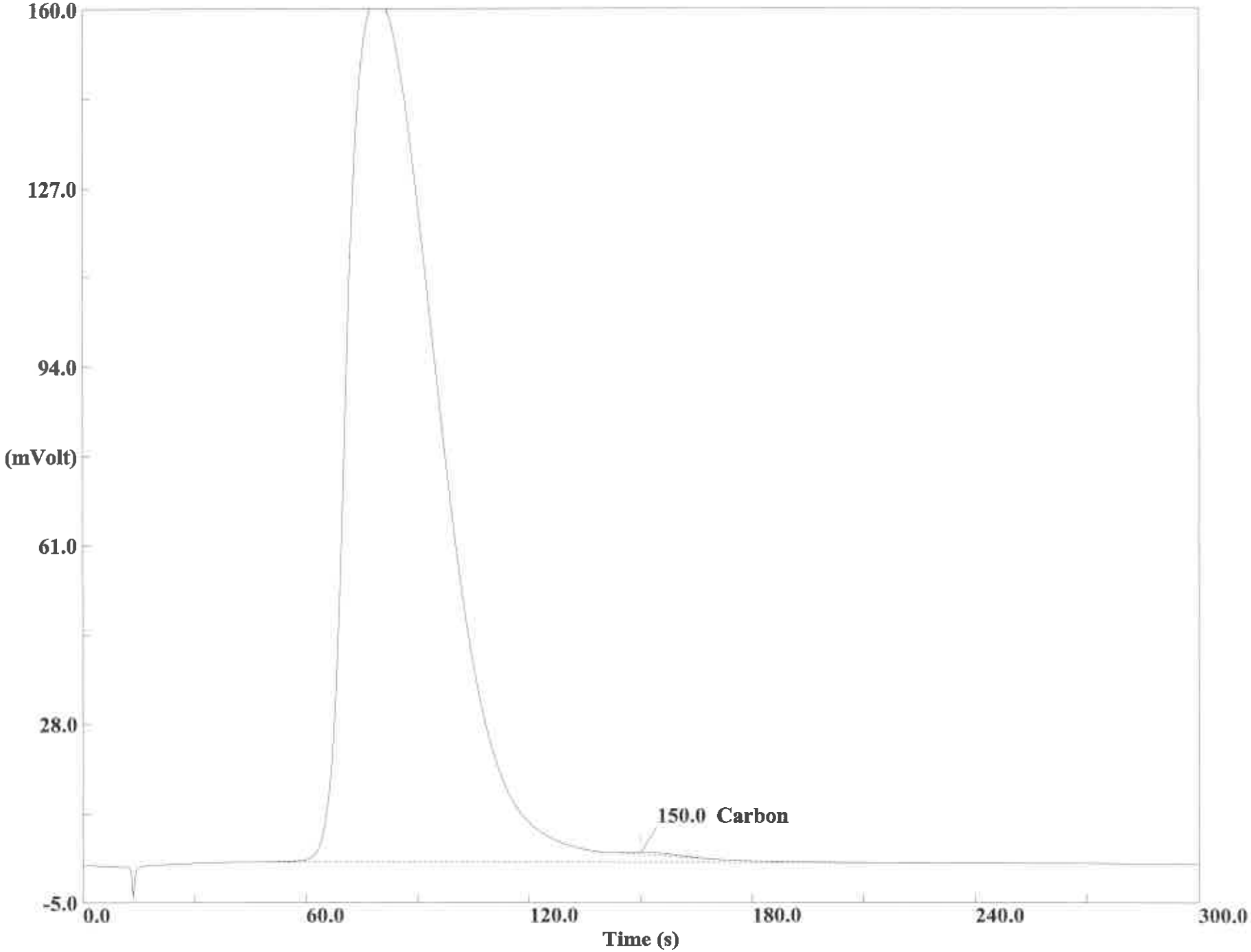
Page: 1 Sample: 180-82379-a-1 (A100318016)

Method Name : Lloyd Kahn
Method File : C:\data\January\100318.mth
Chromatogram : A100318016
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 15:16 Printed : 10/4/2018 08:52
Sample ID : 180-82379-a-1 (# 29)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20.7

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.1656	142	17762	mi	1.000000	

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318017.DAT
Sample name :180-82379-a-2 Analysed :10/03/2018 15:21

Eager 300 Report

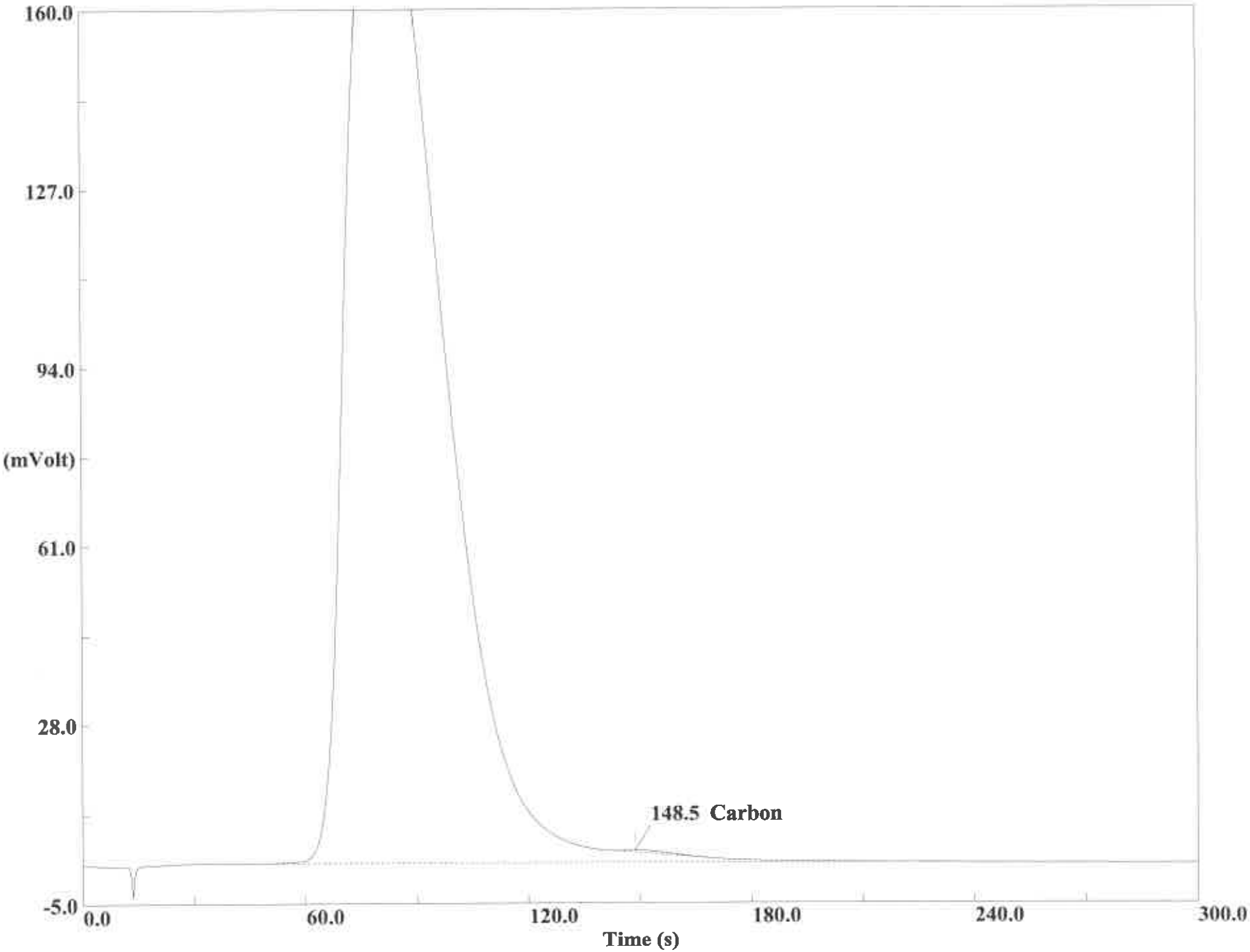
Page: 1 Sample: 180-82379-a-2 (A100318017)

Method Name : Lloyd Kahn
Method File : C:\data\January\100318.mth
Chromatogram : A100318017
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 15:21 Printed : 10/4/2018 08:52
Sample ID : 180-82379-a-2 (# 30)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20.3

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.2608	150	61333	CR	1.000000	

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318018.DAT
Sample name :180-82379-a-2 Analysed :10/03/2018 15:26

Eager 300 Report

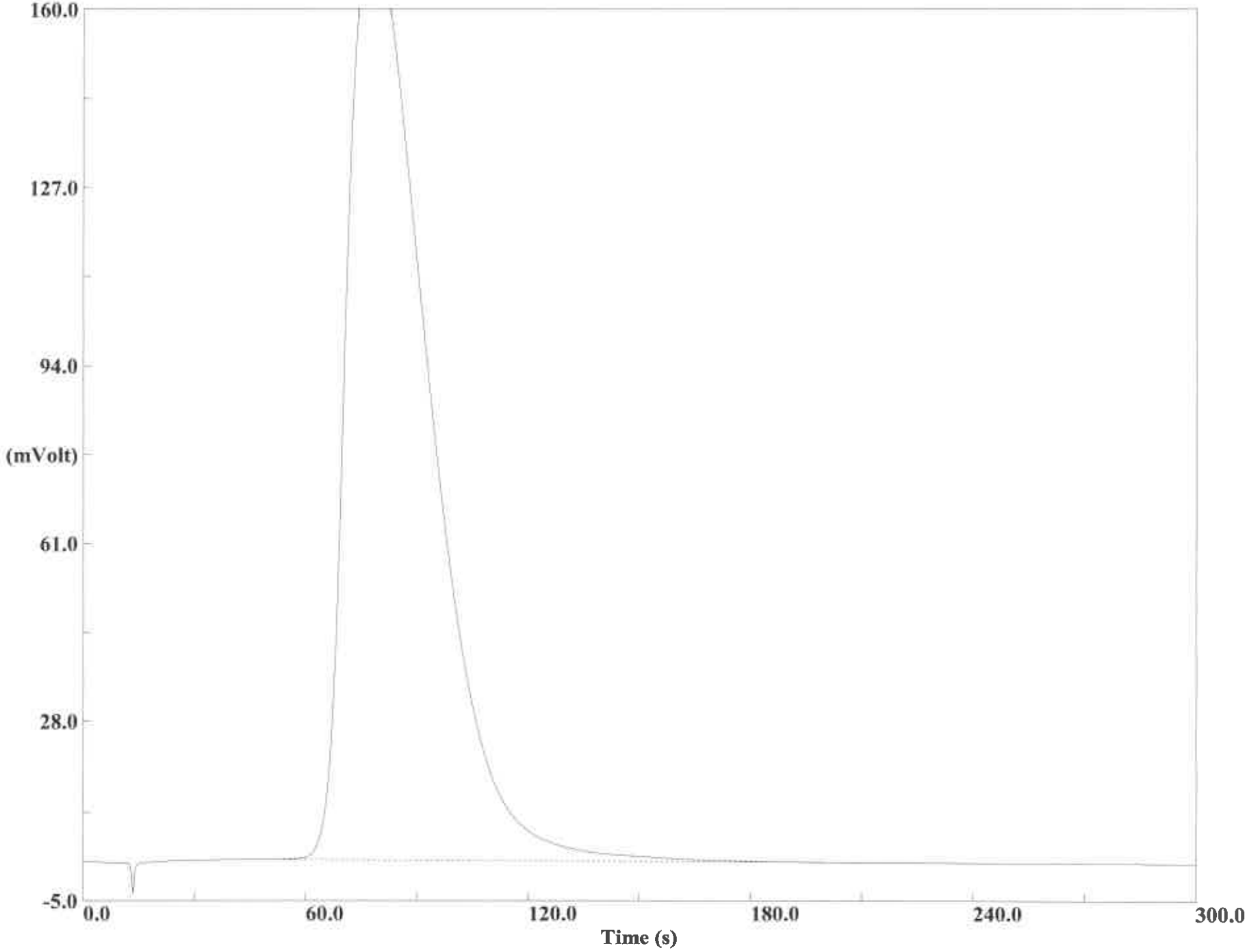
Page: 1 Sample: 180-82379-a-2 (A100318018)

Method Name : Lloyd Kahn
Method File : C:\data\January\100318.mth
Chromatogram : A100318018
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 15:26 Printed : 10/4/2018 08:52
Sample ID : 180-82379-a-2 (# 31)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20.6

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.2233	149	45110	CR	1.000000	

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318019.DAT
Sample name :180-82379-a-3 Analysed :10/03/2018 15:31

Eager 300 Report

Page: 1 Sample: 180-82379-a-3 (A100318019)

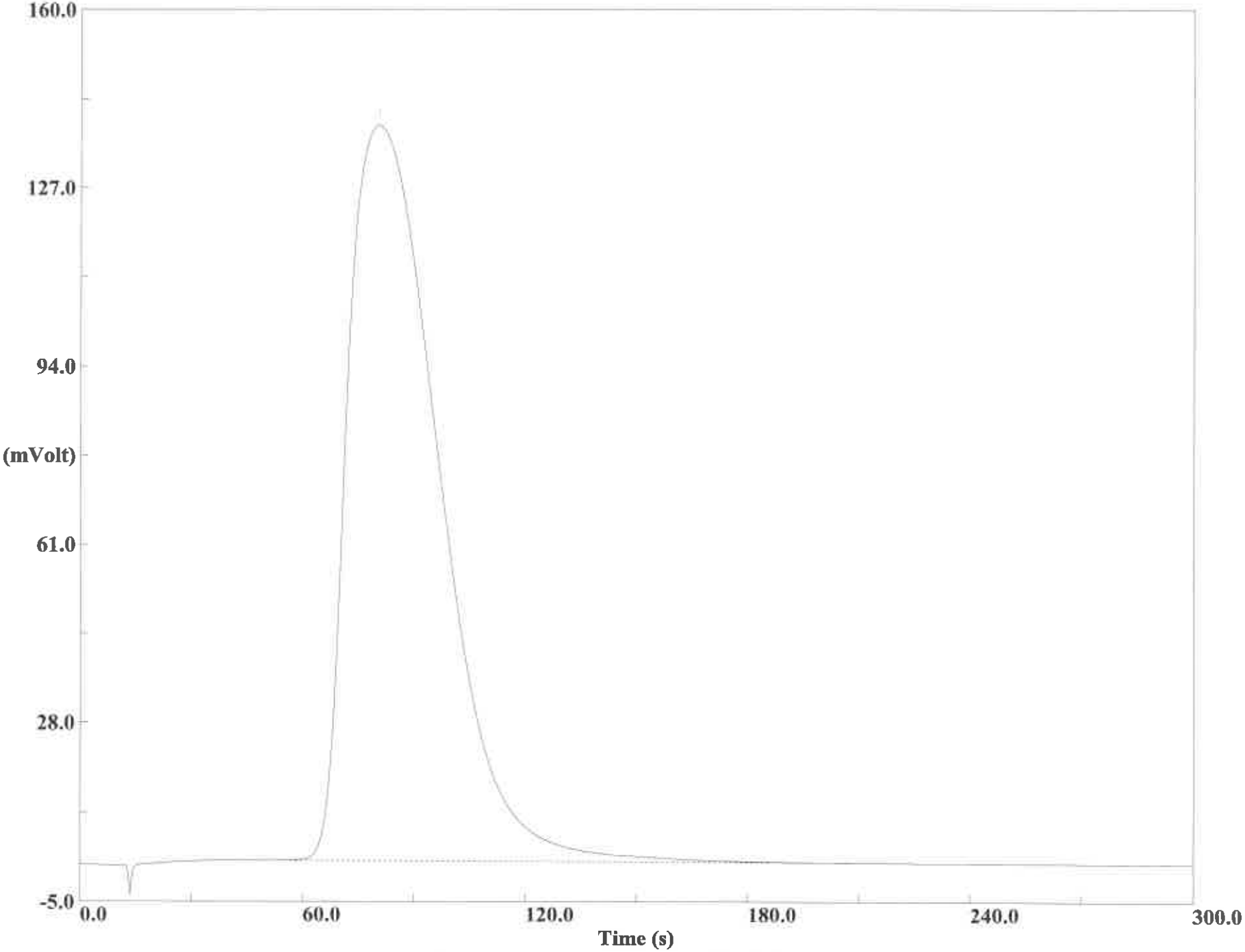
Method Name : Lloyd Kahn
Method File : C:\data\January\100318.mth
Chromatogram : A100318019
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 15:31 Printed : 10/4/2018 08:52
Sample ID : 180-82379-a-3 (# 32)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20.8

Calib. method : using 'Least Squares to Linear fit'

!!! Warning missing one or more peaks.

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318020.DAT
Sample name :180-82379-a-3 Analysed :10/03/2018 15:36

Eager 300 Report

Page: 1 Sample: 180-82379-a-3 (A100318020)

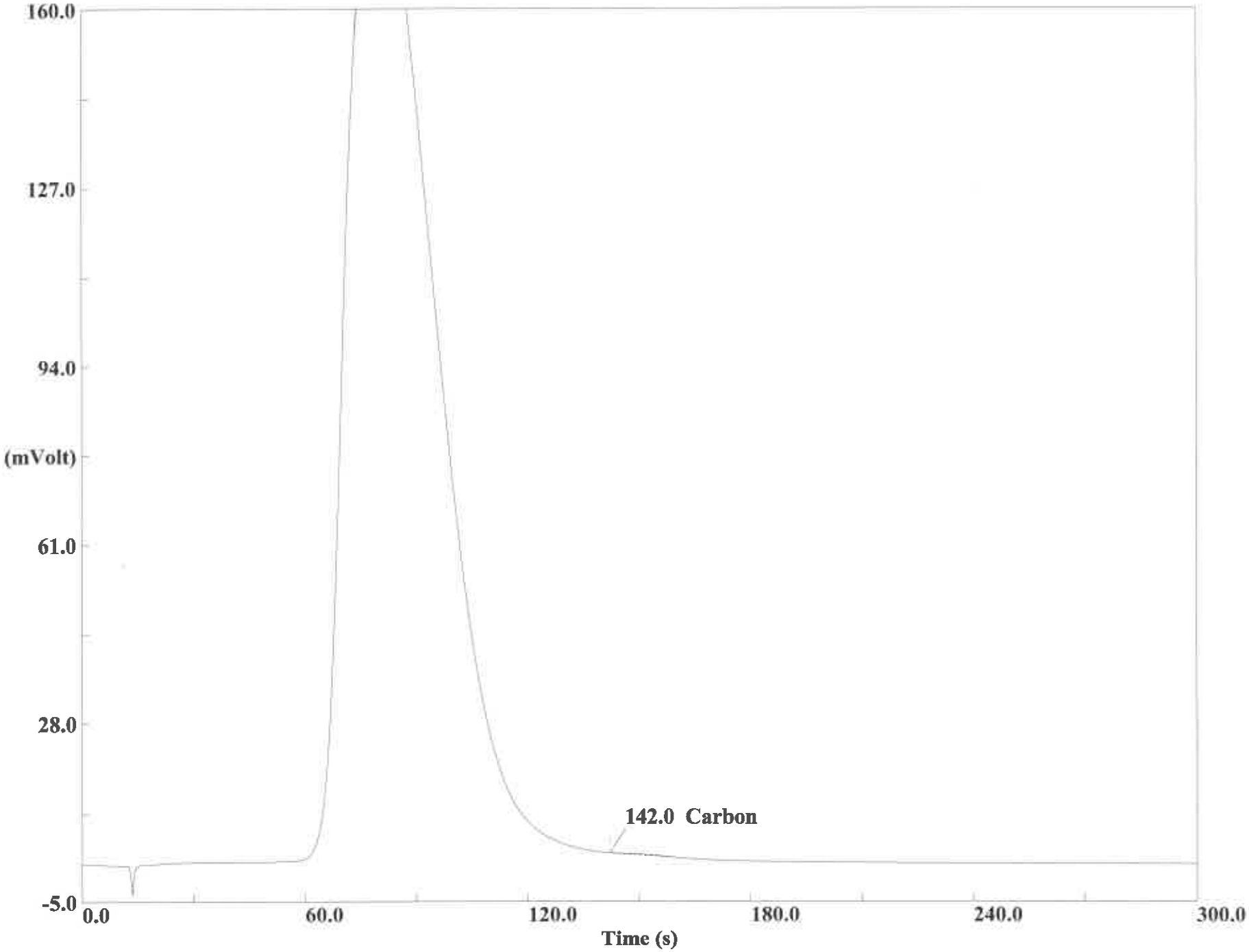
Method Name : Lloyd Kahn
Method File : C:\data\January\100318.mth
Chromatogram : A100318020
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 15:36 Printed : 10/4/2018 08:52
Sample ID : 180-82379-a-3 (# 33)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 21.4

Calib. method : using 'Least Squares to Linear fit'

!!! Warning missing one or more peaks.

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318021.DAT
Sample name :180-82379-c-1 Analysed :10/03/2018 15:42

Eager 300 Report

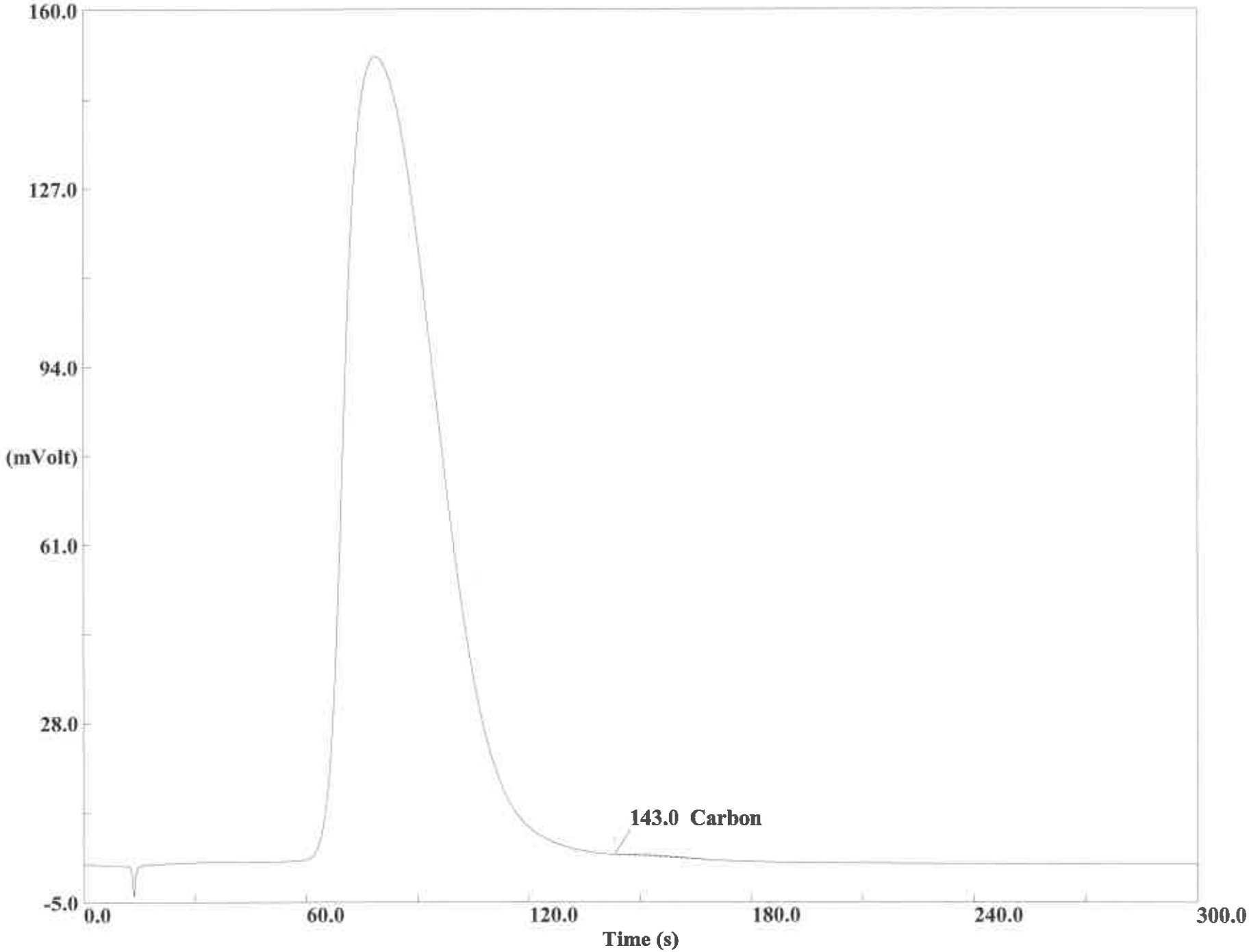
Page: 1 Sample: 180-82379-c-1 (A100318021)

Method Name : Lloyd Kahn
Method File : C:\data\January\100318.mth
Chromatogram : A100318021
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 15:42 Printed : 10/4/2018 08:52
Sample ID : 180-82379-c-1 (# 34)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 21.6

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.1559	142	16379	mi	1.000000	

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318022.DAT
Sample name :180-82379-c-1 Analysed :10/03/2018 15:47

Eager 300 Report

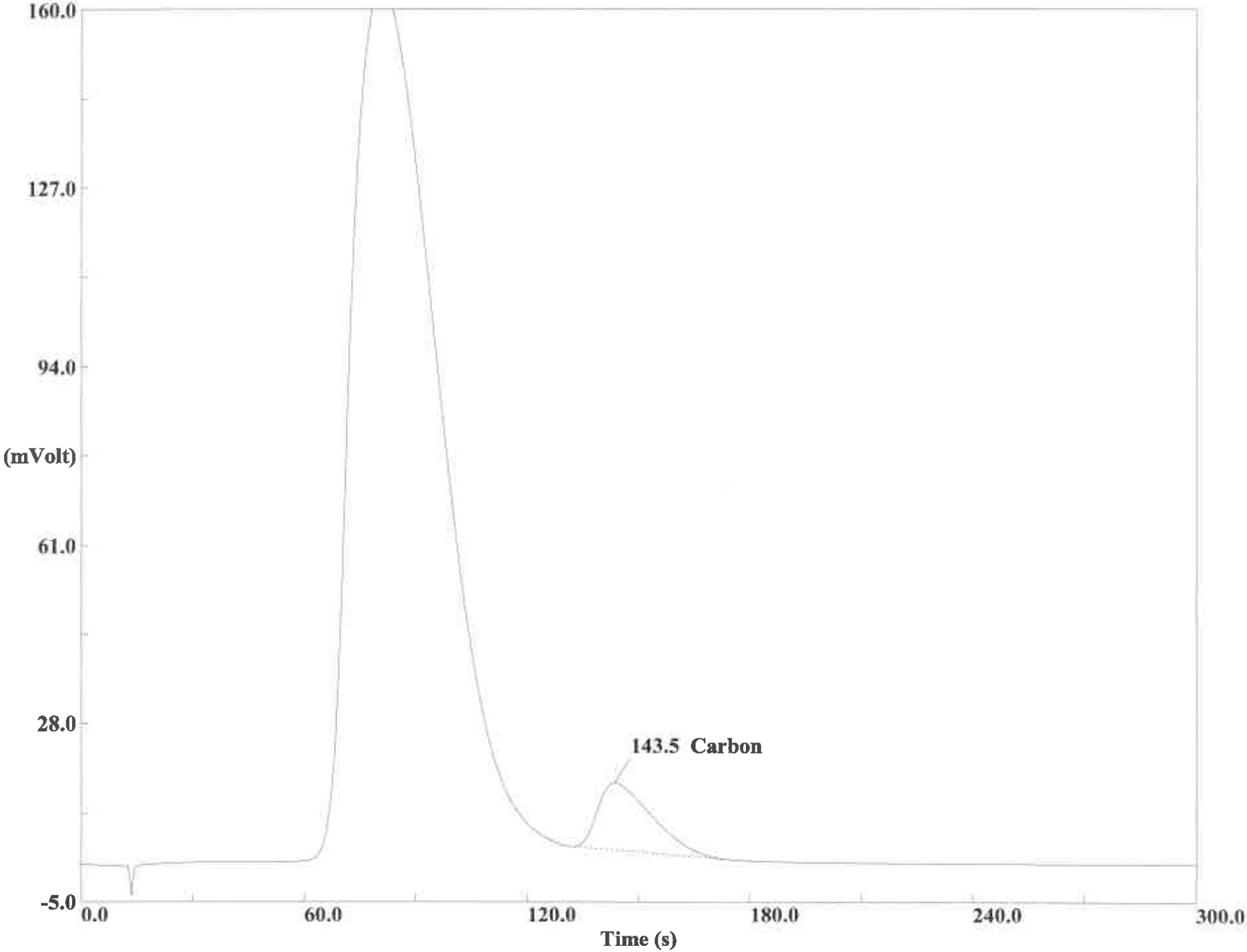
Page: 1 Sample: 180-82379-c-1 (A100318022)

Method Name : Lloyd Kahn
Method File : C:\data\January\100318.mth
Chromatogram : A100318022
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 15:47 Printed : 10/4/2018 08:52
Sample ID : 180-82379-c-1 (# 35)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20.9

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.1864	143	28674	mi	1.000000	

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318023.DAT
Sample name :ccv Analysed :10/03/2018 15:52

Eager 300 Report

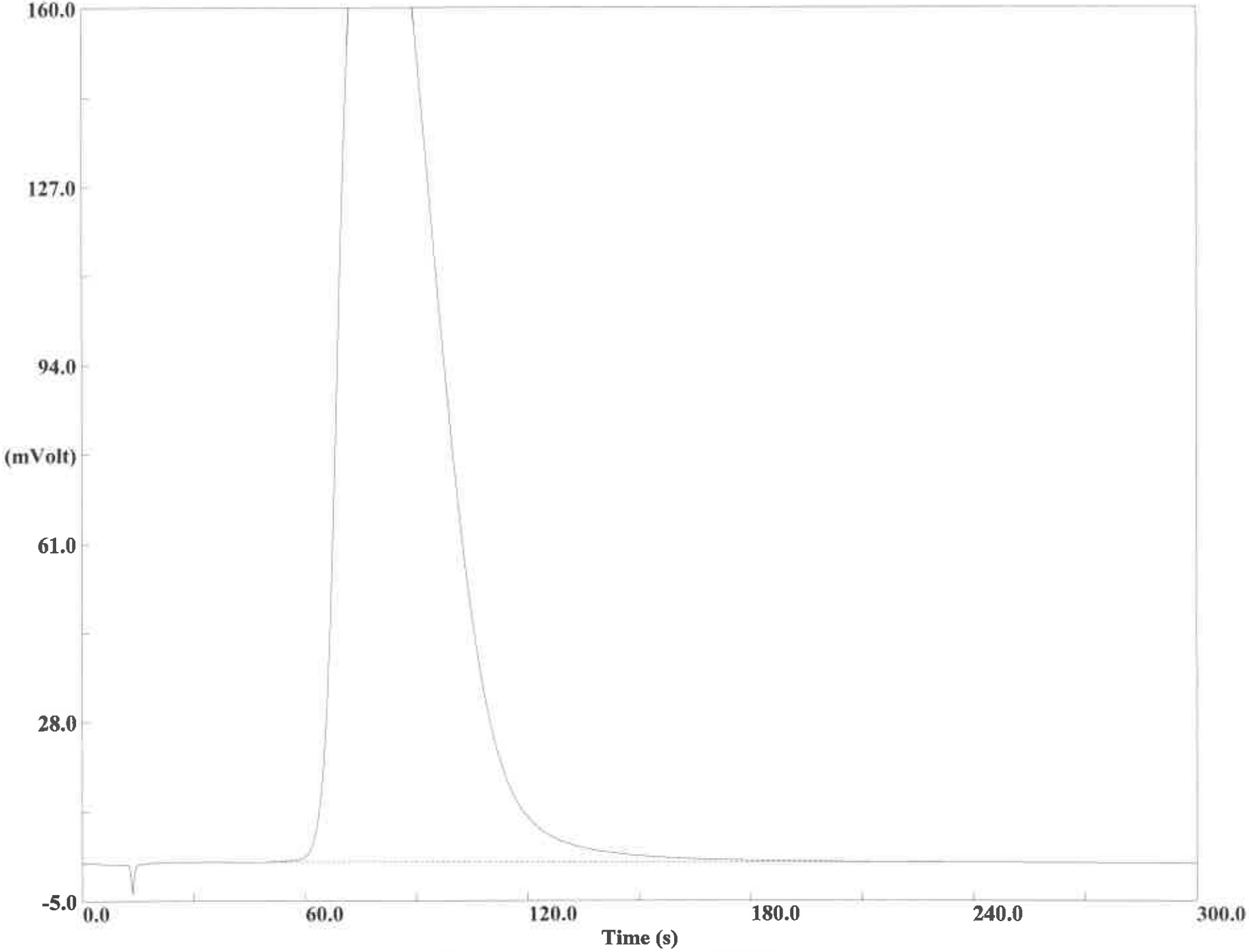
Page: 1 Sample: ccv (A100318023)

Method Name : Lloyd Kahn
Method File : C:\data\January\100318.mth
Chromatogram : A100318023
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 15:52 Printed : 10/4/2018 08:52
Sample ID : ccv (# 36)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 100

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.9153	144	2073766	mi	1.000000	

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318024.DAT
Sample name :ccb Analysed :10/03/2018 15:57

Eager 300 Report

Page: 1 Sample: ccb (A100318024)

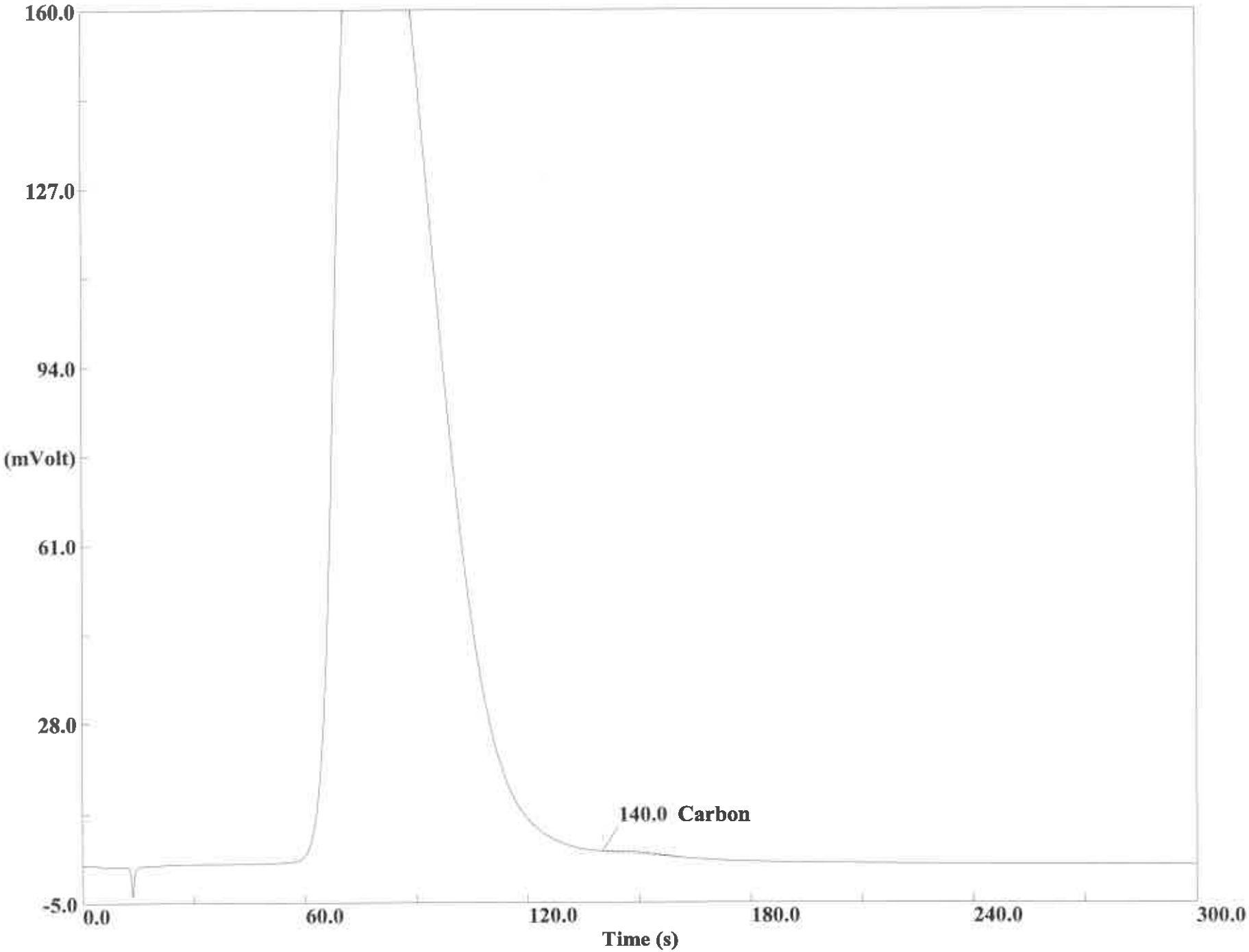
Method Name : Lloyd Kahn
Method File : C:\data\January\100318.mth
Chromatogram : A100318024
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 15:57 Printed : 10/4/2018 08:52
Sample ID : ccb (# 37)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20

Calib. method : using 'Least Squares to Linear fit'

!!! Warning missing one or more peaks.

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318025.DAT
Sample name :180-82446-c-2 Analysed :10/03/2018 16:02

Eager 300 Report

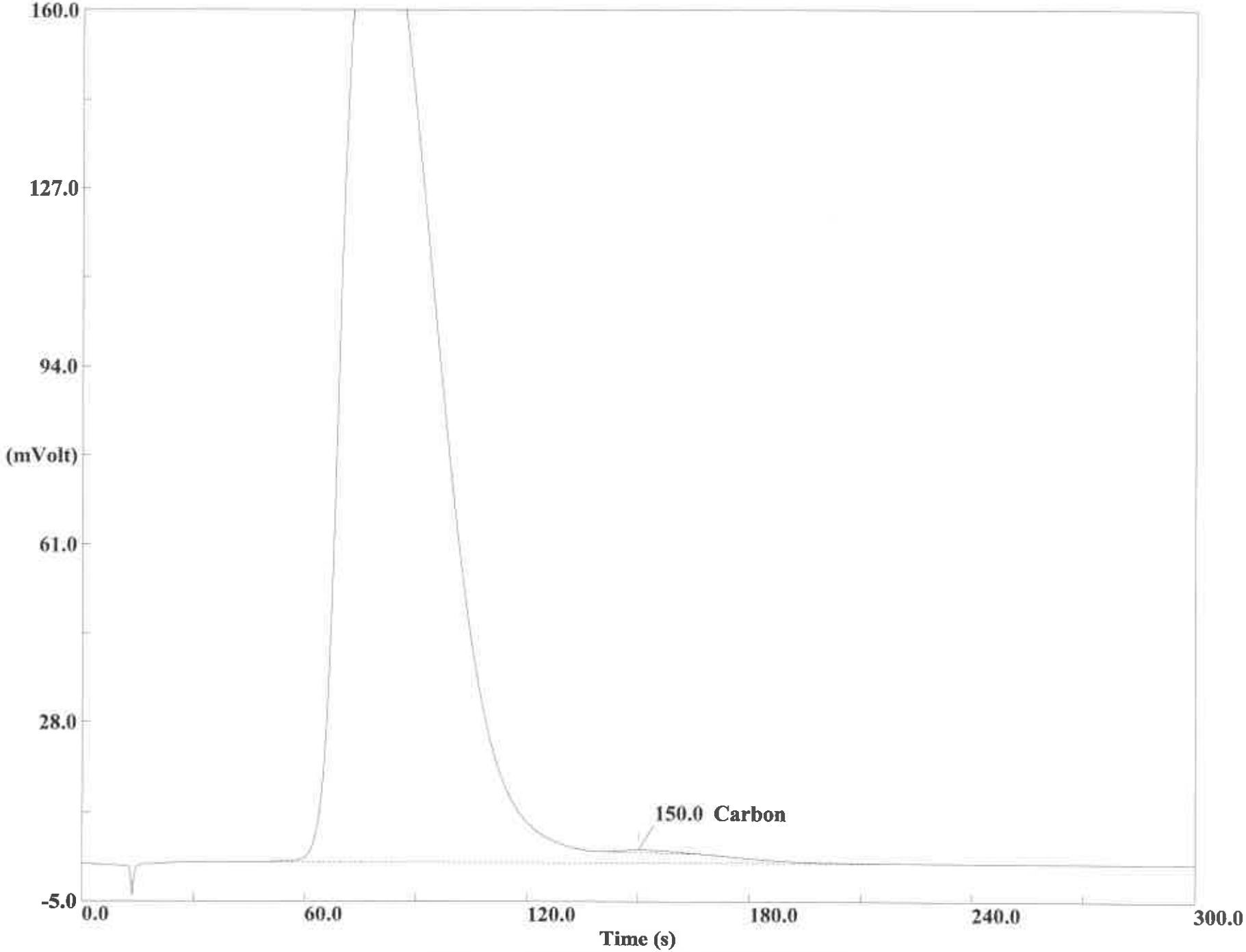
Page: 1 Sample: 180-82446-c-2 (A100318025)

Method Name : Lloyd Kahn
Method File : C:\data\January\100318.mth
Chromatogram : A100318025
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 16:02 Printed : 10/4/2018 08:52
Sample ID : 180-82446-c-2 (# 38)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20.1

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.2144	140	38353	mi	1.000000	

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318026.DAT
Sample name :180-82446-c-2 Analysed :10/03/2018 16:07

Eager 300 Report

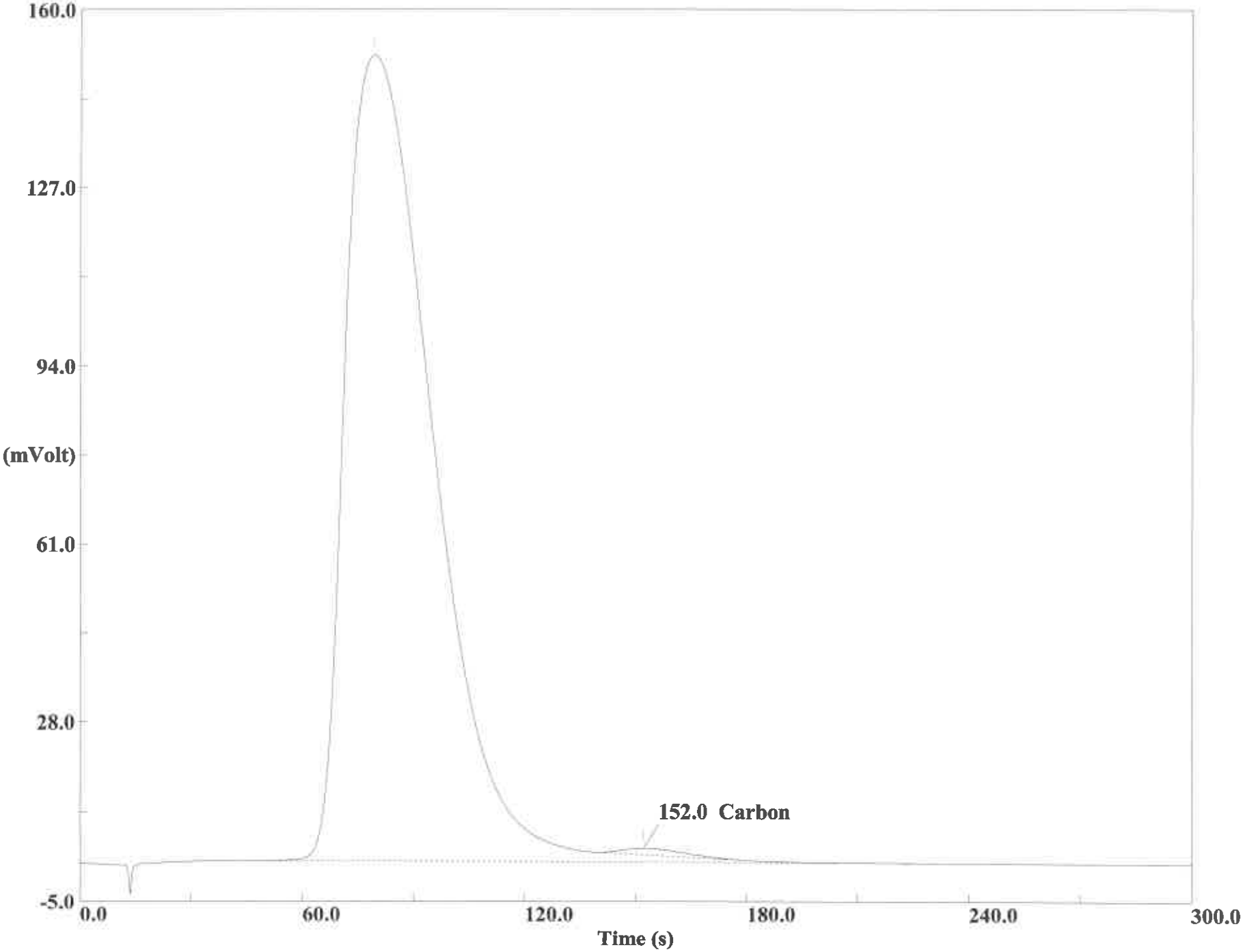
Page: 1 Sample: 180-82446-c-2 (A100318026)

Method Name : Lloyd Kahn
Method File : C:\data\January\100318.mth
Chromatogram : A100318026
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 16:07 Printed : 10/4/2018 08:52
Sample ID : 180-82446-c-2 (# 39)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 22.1

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.2578	150	70756	mi	1.000000	

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318027.DAT
Sample name :180-82446-b-3 Analysed :10/03/2018 16:13

Eager 300 Report

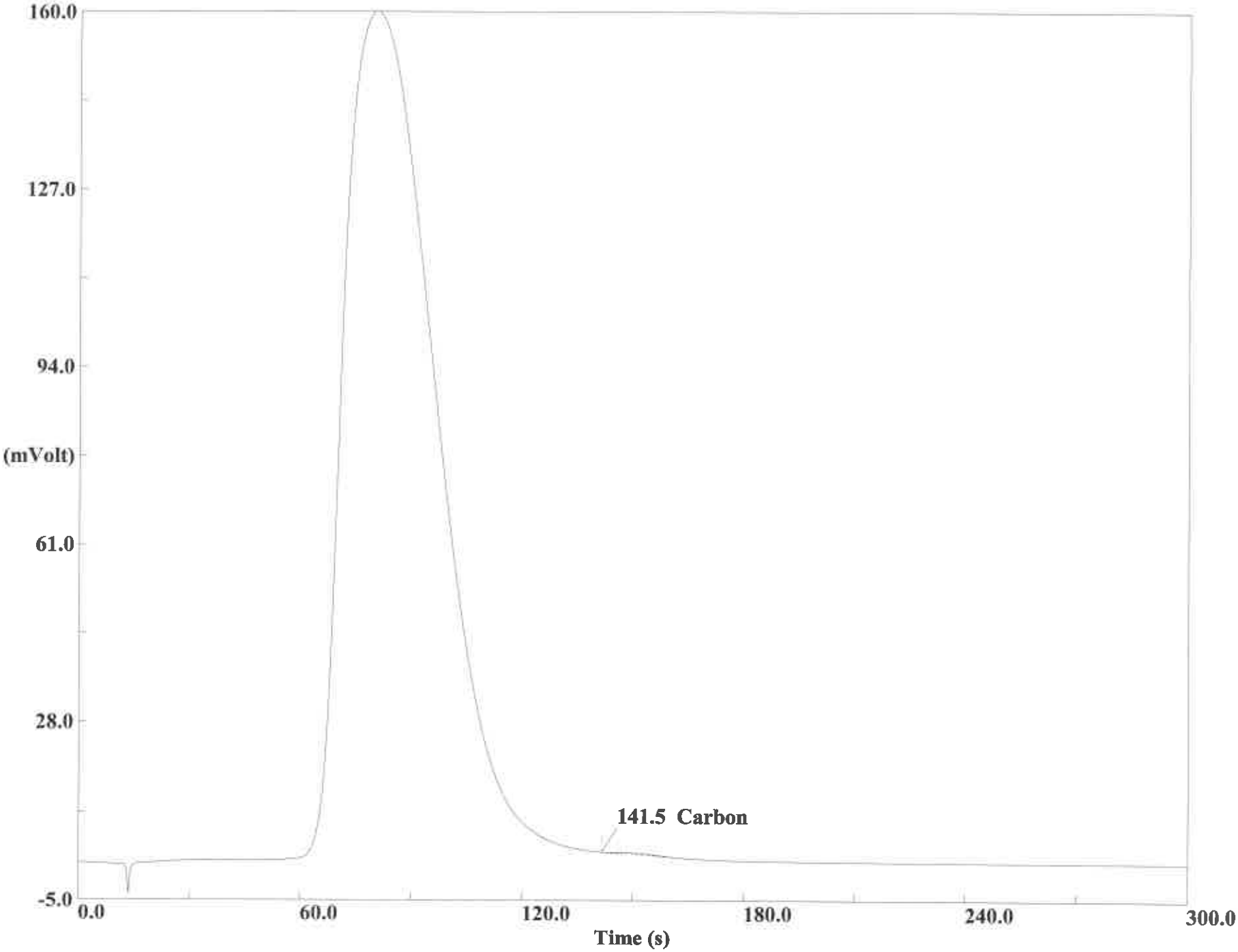
Page: 1 Sample: 180-82446-b-3 (A100318027)

Method Name : Lloyd Kahn
Method File : C:\data\January\100318.mth
Chromatogram : A100318027
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 16:13 Printed : 10/4/2018 08:52
Sample ID : 180-82446-b-3 (# 40)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20.5

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.6019	152	225718	CR	1.000000	

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318028.DAT
Sample name :180-82446-b-3 Analysed :10/03/2018 16:18

Eager 300 Report

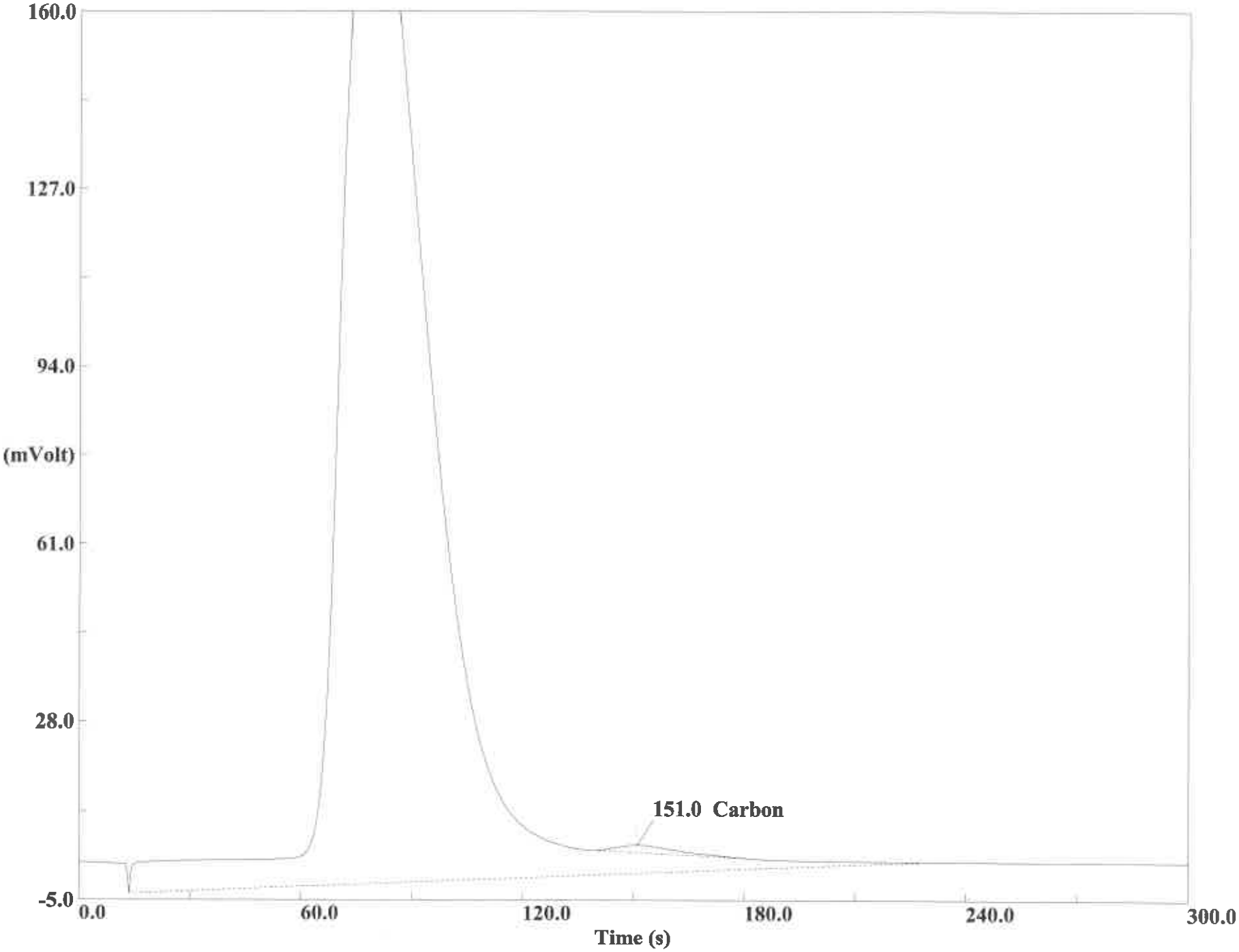
Page: 1 Sample: 180-82446-b-3 (A100318028)

Method Name : Lloyd Kahn
Method File : C:\data\January\100318.mth
Chromatogram : A100318028
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 16:18 Printed : 10/4/2018 08:52
Sample ID : 180-82446-b-3 (# 41)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20.4

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.1895	142	27994	mi	1.000000	

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318029.DAT
Sample name :180-82446-c-4 Analysed :10/03/2018 16:23

Eager 300 Report

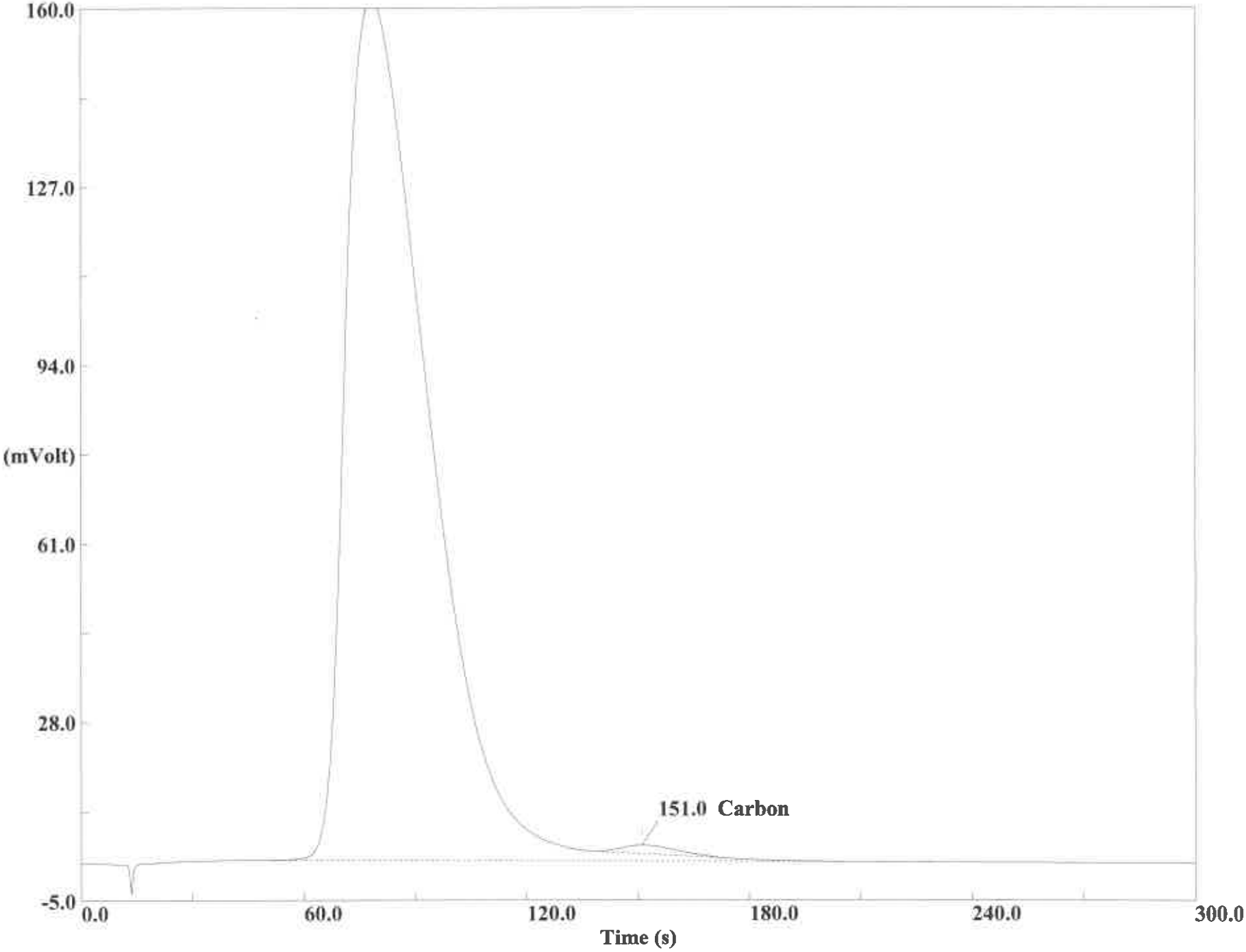
Page: 1 Sample: 180-82446-c-4 (A100318029)

Method Name : Lloyd Kahn
Method File : C:\data\January\100318.mth
Chromatogram : A100318029
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 16:23 Printed : 10/4/2018 08:52
Sample ID : 180-82446-c-4 (# 42)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 21.4

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.6413	151	258066	CR	1.000000	

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318030.DAT
Sample name :180-82446-c-4 Analysed :10/03/2018 16:28

Eager 300 Report

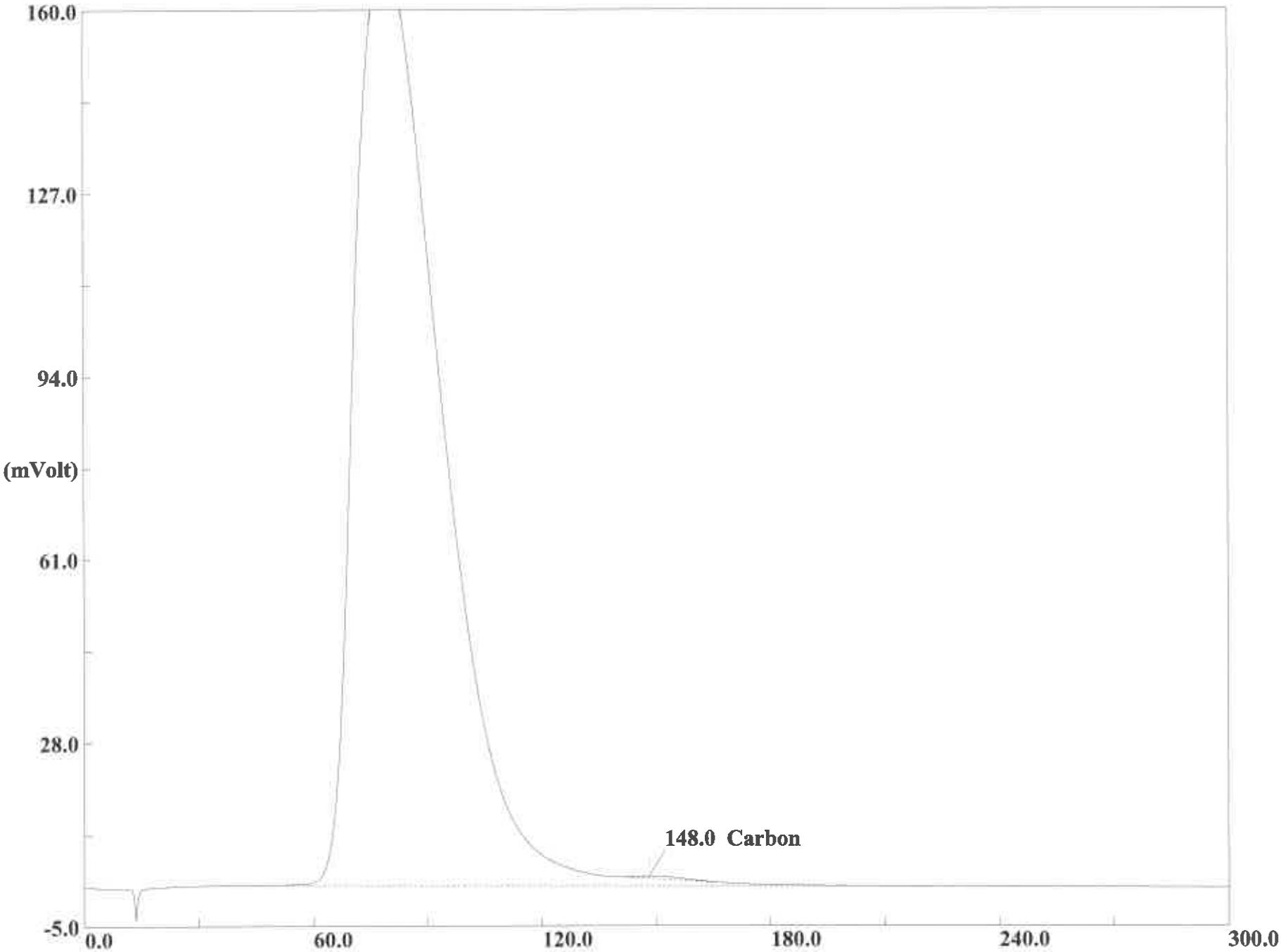
Page: 1 Sample: 180-82446-c-4 (A100318030)

Method Name : Lloyd Kahn
Method File : C:\data\January\100318.mth
Chromatogram : A100318030
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 16:28 Printed : 10/4/2018 08:53
Sample ID : 180-82446-c-4 (# 43)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 21.4

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.6881	151	281431	CR	1.000000	

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318031.DAT
Sample name :180-82446-b-5 Analysed :10/03/2018 16:33

Eager 300 Report

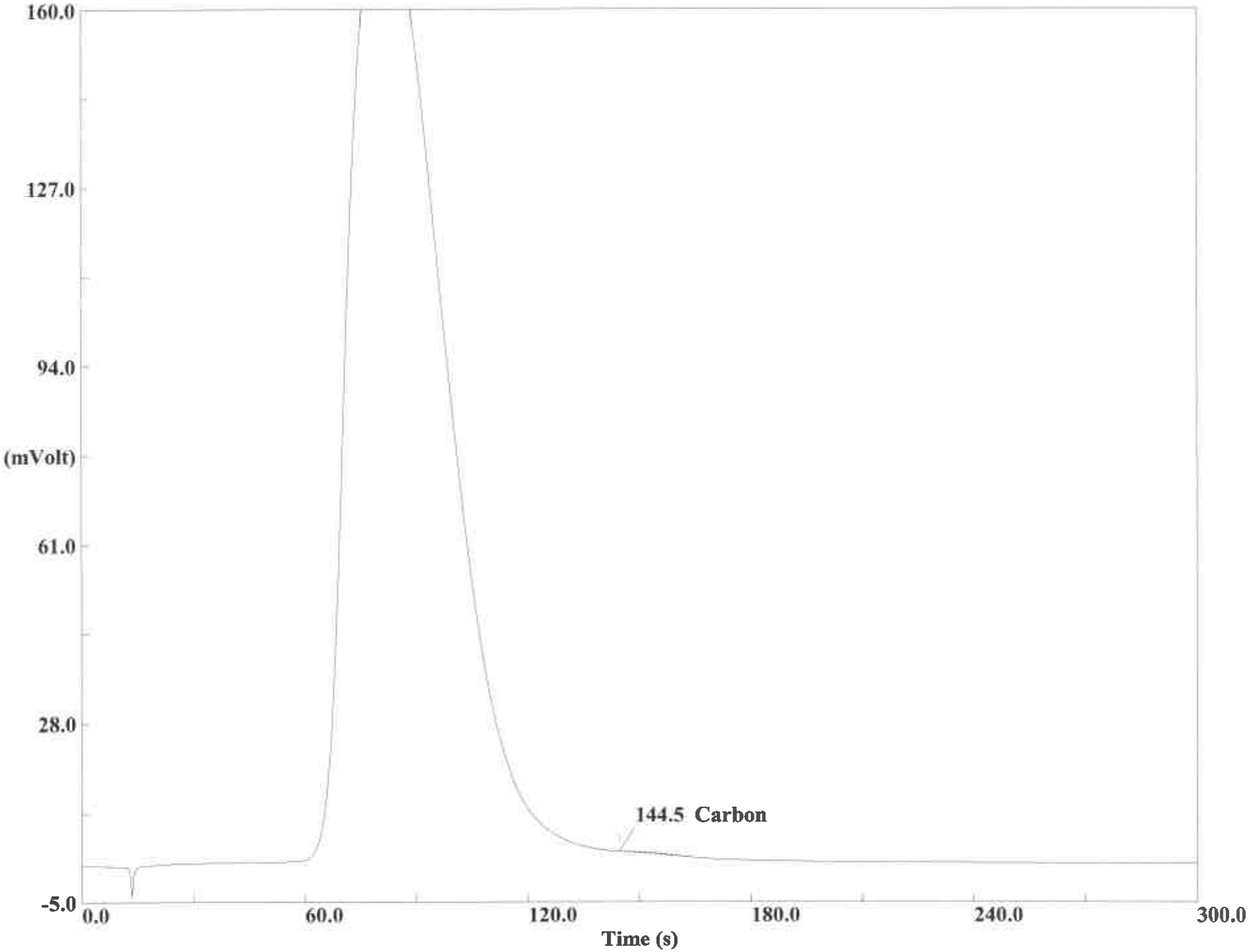
Page: 1 Sample: 180-82446-b-5 (A100318031)

Method Name : Lloyd Kahn
Method File : C:\data\January\100318.mth
Chromatogram : A100318031
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 16:33 Printed : 10/4/2018 08:53
Sample ID : 180-82446-b-5 (# 44)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20.8

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.2673	148	67533	CR	1.000000	

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318032.DAT
Sample name :180-82446-b-5 Analysed :10/03/2018 16:38

Eager 300 Report

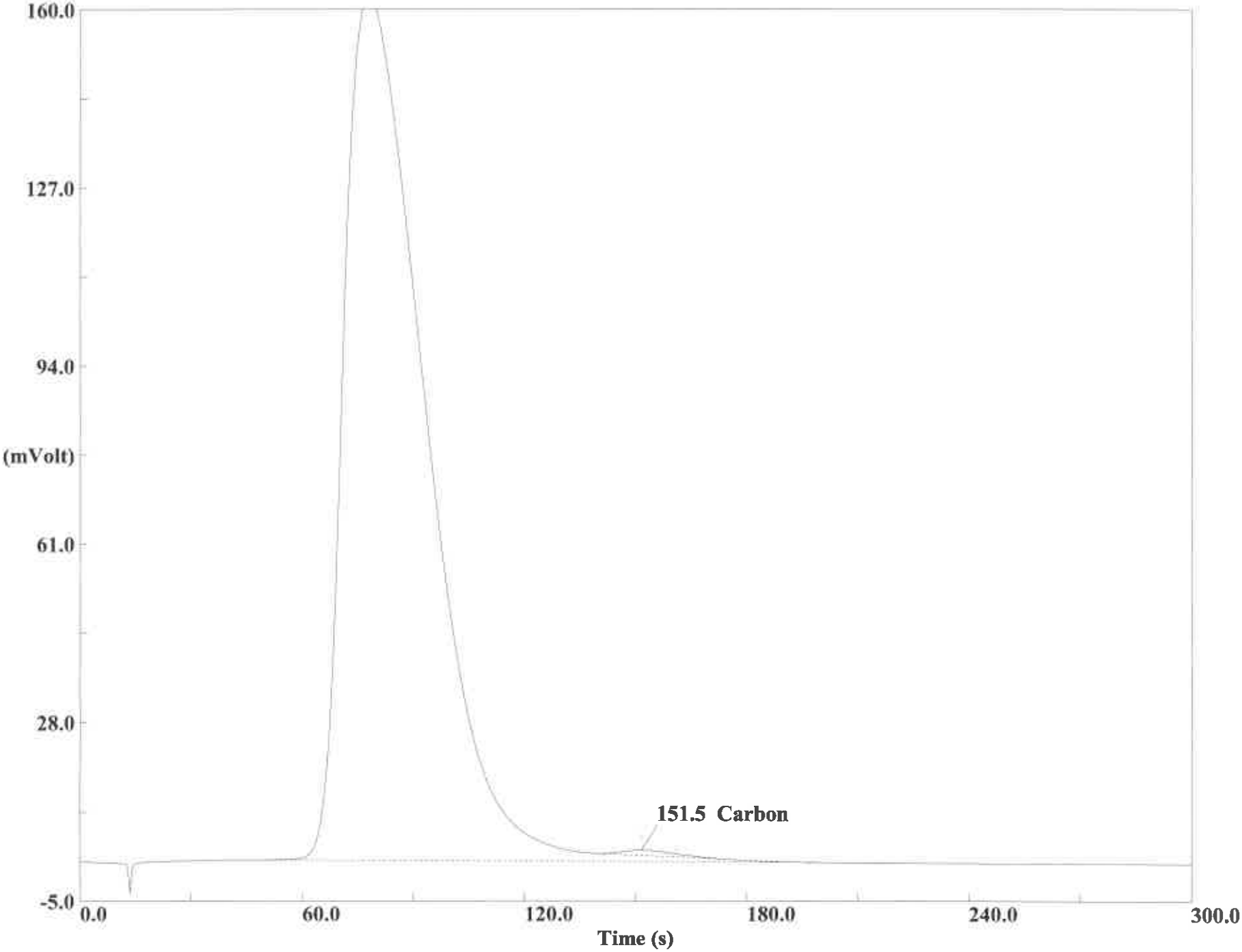
Page: 1 Sample: 180-82446-b-5 (A100318032)

Method Name : Lloyd Kahn
Method File : C:\data\January\100318.mth
Chromatogram : A100318032
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 16:38 Printed : 10/4/2018 08:53
Sample ID : 180-82446-b-5 (# 45)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 21.4

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.1648	145	20087	mi	1.000000	

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318033.DAT
Sample name :180-82446-c-6 Analysed :10/03/2018 16:43

Eager 300 Report

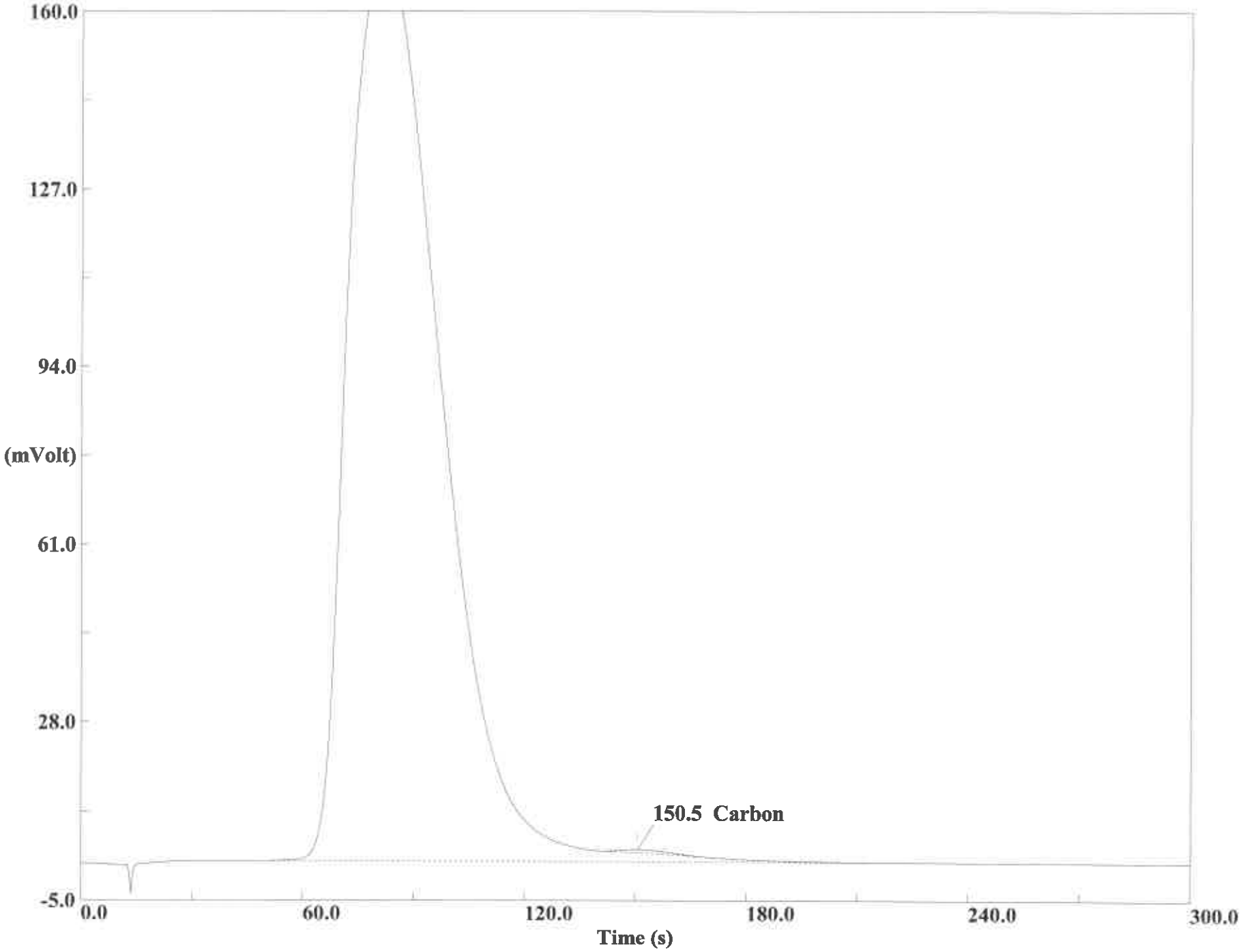
Page: 1 Sample: 180-82446-c-6 (A100318033)

Method Name : Lloyd Kahn
Method File : C:\data\January\100318.mth
Chromatogram : A100318033
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 16:43 Printed : 10/4/2018 08:53
Sample ID : 180-82446-c-6 (# 46)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 10.7

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.9117	152	165428	CR	1.000000	

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318034.DAT
Sample name :180-82446-c-6 Analysed :10/03/2018 16:48

Eager 300 Report

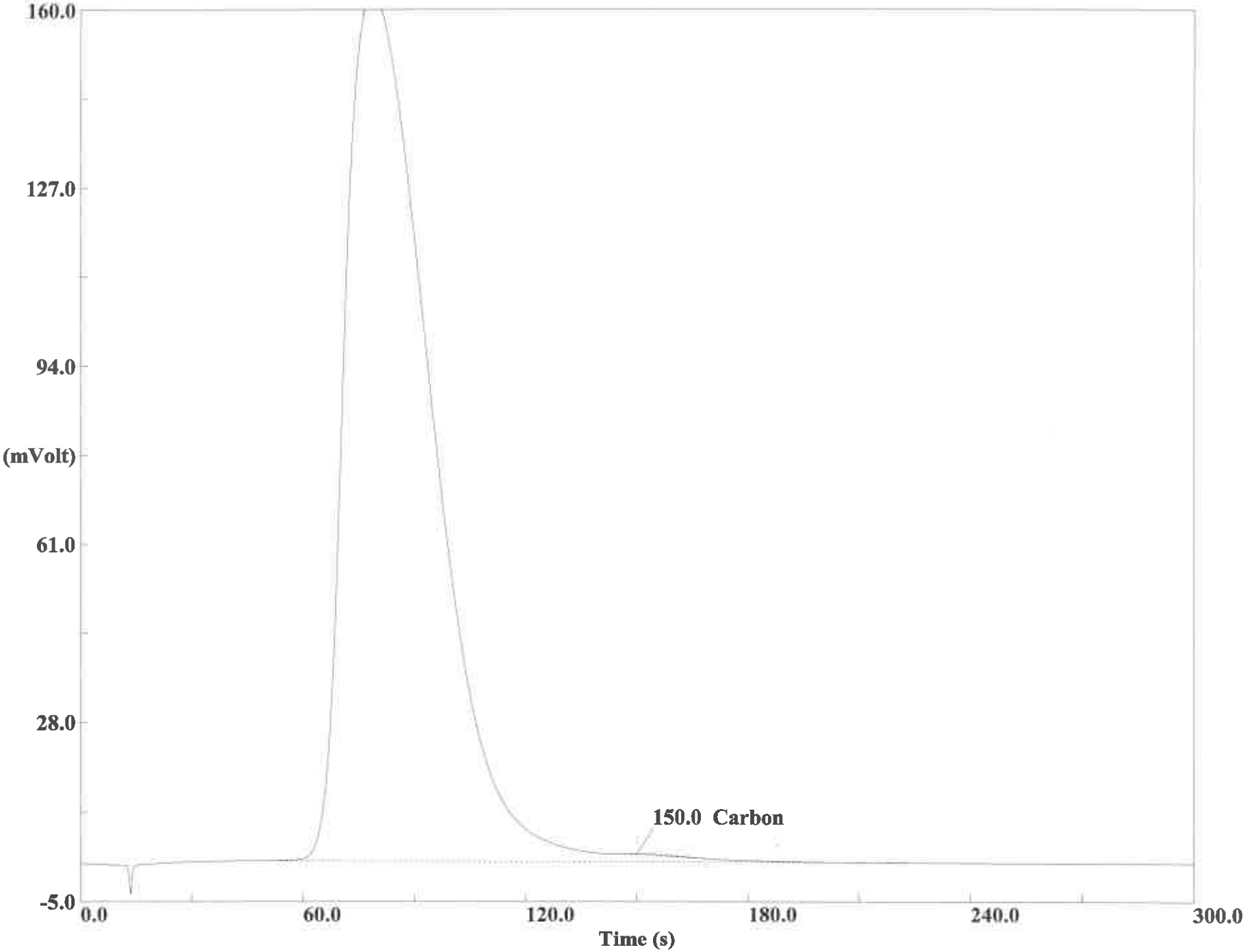
Page: 1 Sample: 180-82446-c-6 (A100318034)

Method Name : Lloyd Kahn
Method File : C:\data\January\100318.mth
Chromatogram : A100318034
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 16:48 Printed : 10/4/2018 08:53
Sample ID : 180-82446-c-6 (# 47)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 10.2

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.6537	151	93382	CR	1.000000	

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318035.DAT
Sample name :180-82502-b-1 Analysed :10/03/2018 16:53

Eager 300 Report

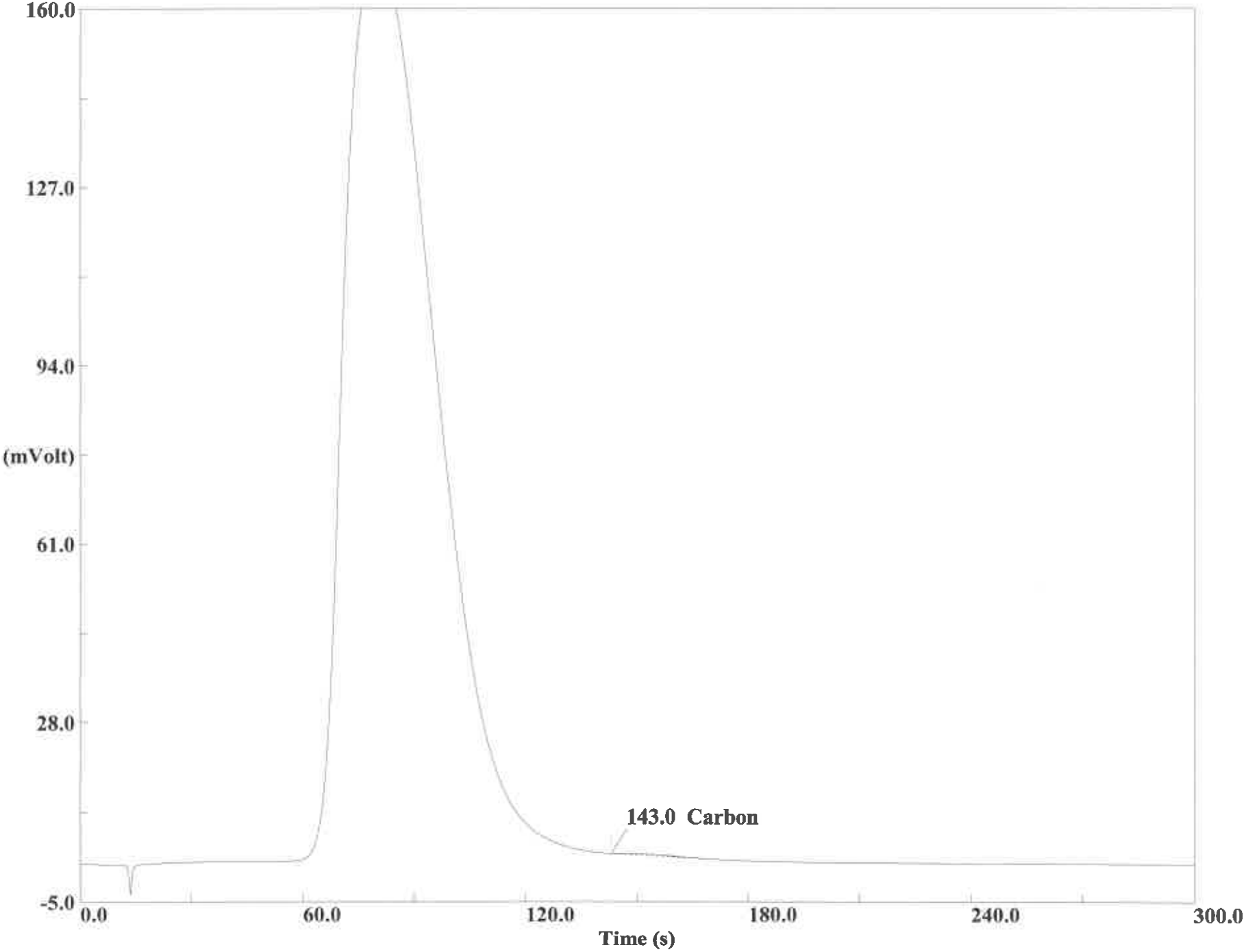
Page: 1 Sample: 180-82502-b-1 (A100318035)

Method Name : Lloyd Kahn
Method File : C:\data\January\100318.mth
Chromatogram : A100318035
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 16:53 Printed : 10/4/2018 08:53
Sample ID : 180-82502-b-1 (# 48)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20.3

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.2077	150	36180	CR	1.000000	

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318036.DAT
Sample name :180-82502-b-1 Analysed :10/03/2018 16:58

Eager 300 Report

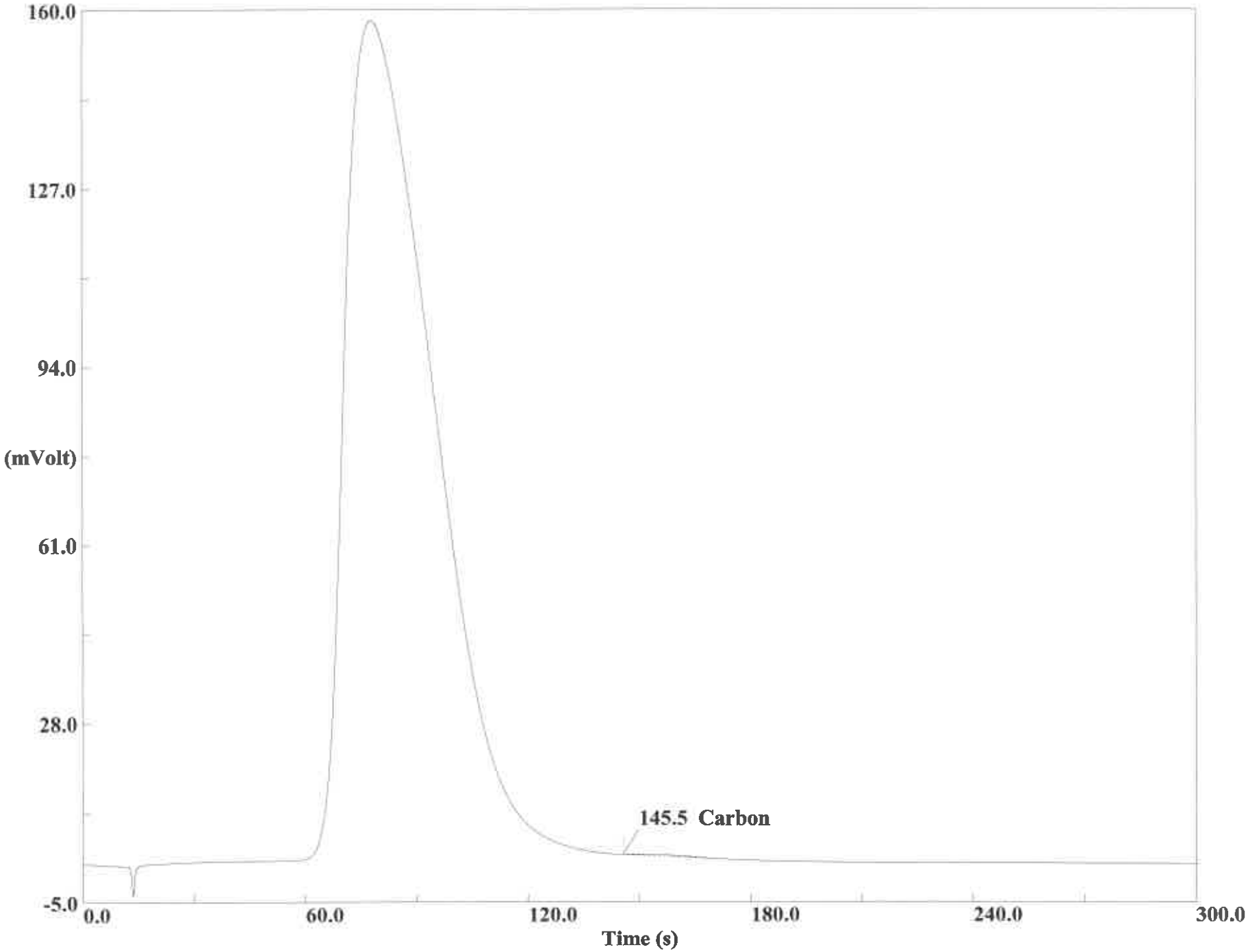
Page: 1 Sample: 180-82502-b-1 (A100318036)

Method Name : Lloyd Kahn
Method File : C:\data\January\100318.mth
Chromatogram : A100318036
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 16:58 Printed : 10/4/2018 08:53
Sample ID : 180-82502-b-1 (# 49)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20.8

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.1972	143	33501	mi	1.000000	

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318037.DAT
Sample name :180-82502-c-2 Analysed :10/03/2018 17:03

Eager 300 Report

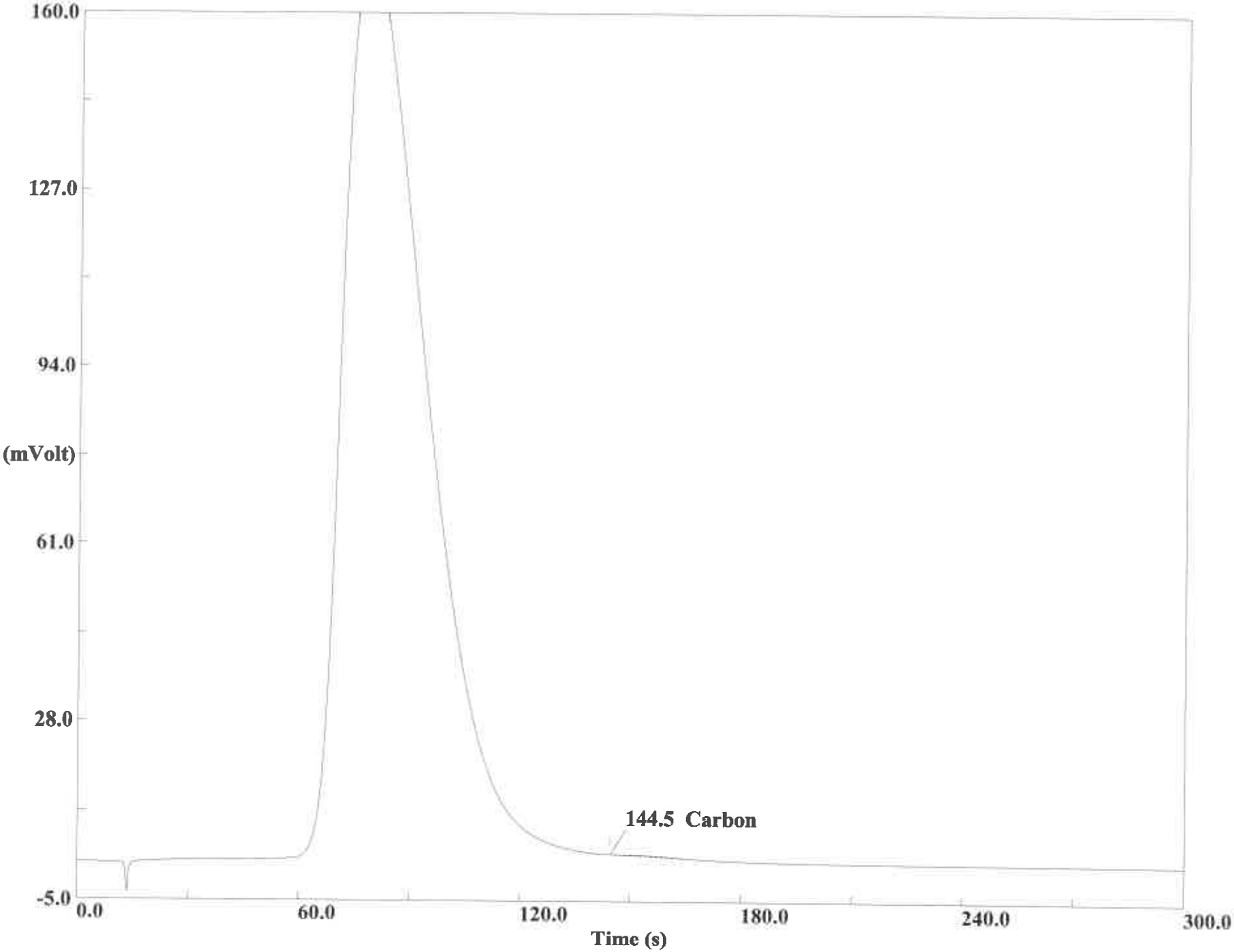
Page: 1 Sample: 180-82502-c-2 (A100318037)

Method Name : Lloyd Kahn
Method File : C:\data\January\100318.mth
Chromatogram : A100318037
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 17:03 Printed : 10/4/2018 08:53
Sample ID : 180-82502-c-2 (# 50)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20.2

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.2076	146	35659	mi	1.000000	

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318038.DAT
Sample name :180-82502-c-2 Analysed :10/03/2018 17:08

Eager 300 Report

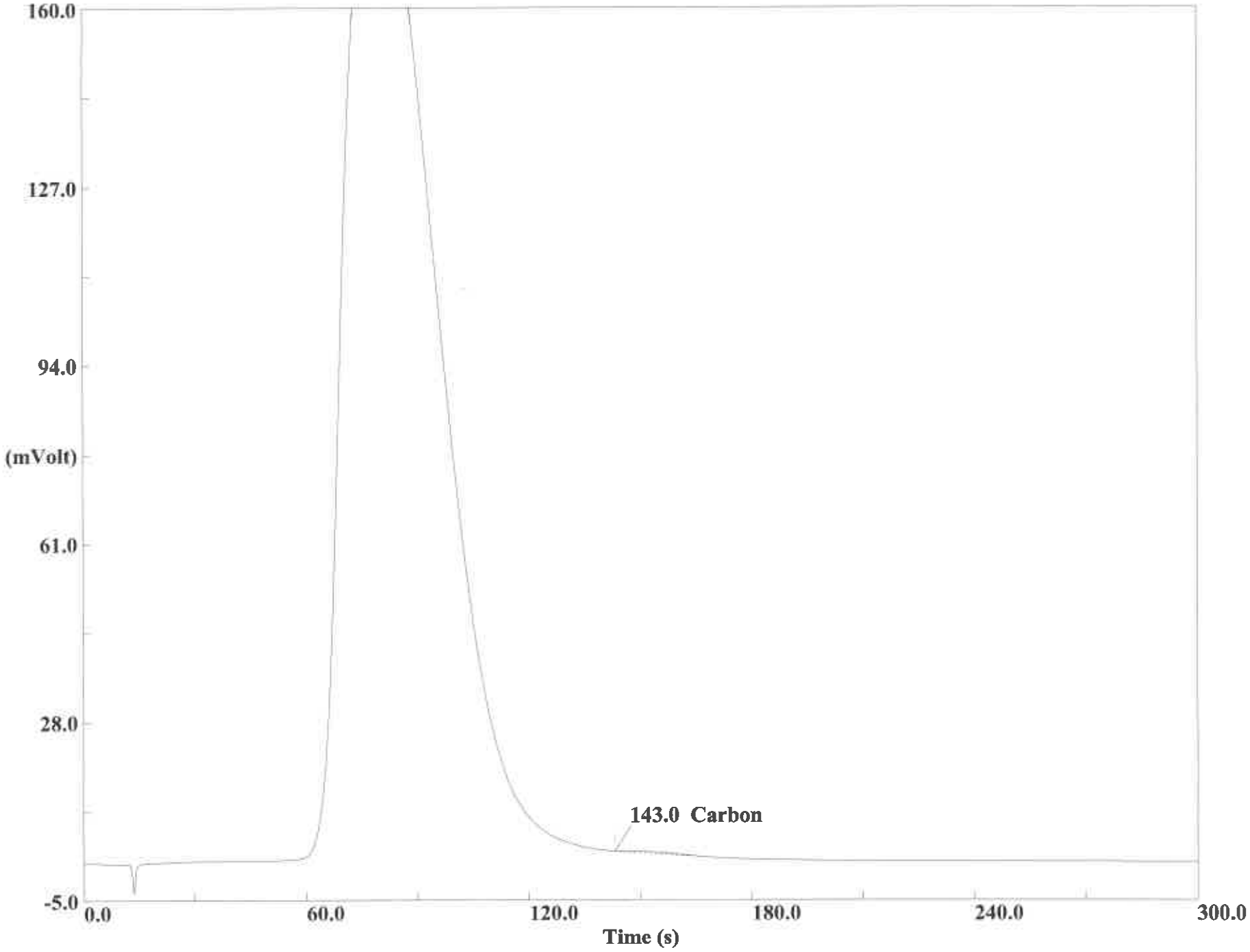
Page: 1 Sample: 180-82502-c-2 (A100318038)

Method Name : Lloyd Kahn
Method File : C:\data\January\100318.mth
Chromatogram : A100318038
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 17:08 Printed : 10/4/2018 08:53
Sample ID : 180-82502-c-2 (# 51)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20.9

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.1756	145	23446	mi	1.000000	

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318039.DAT
Sample name :180-82502-c-3 Analysed :10/03/2018 17:13

Eager 300 Report

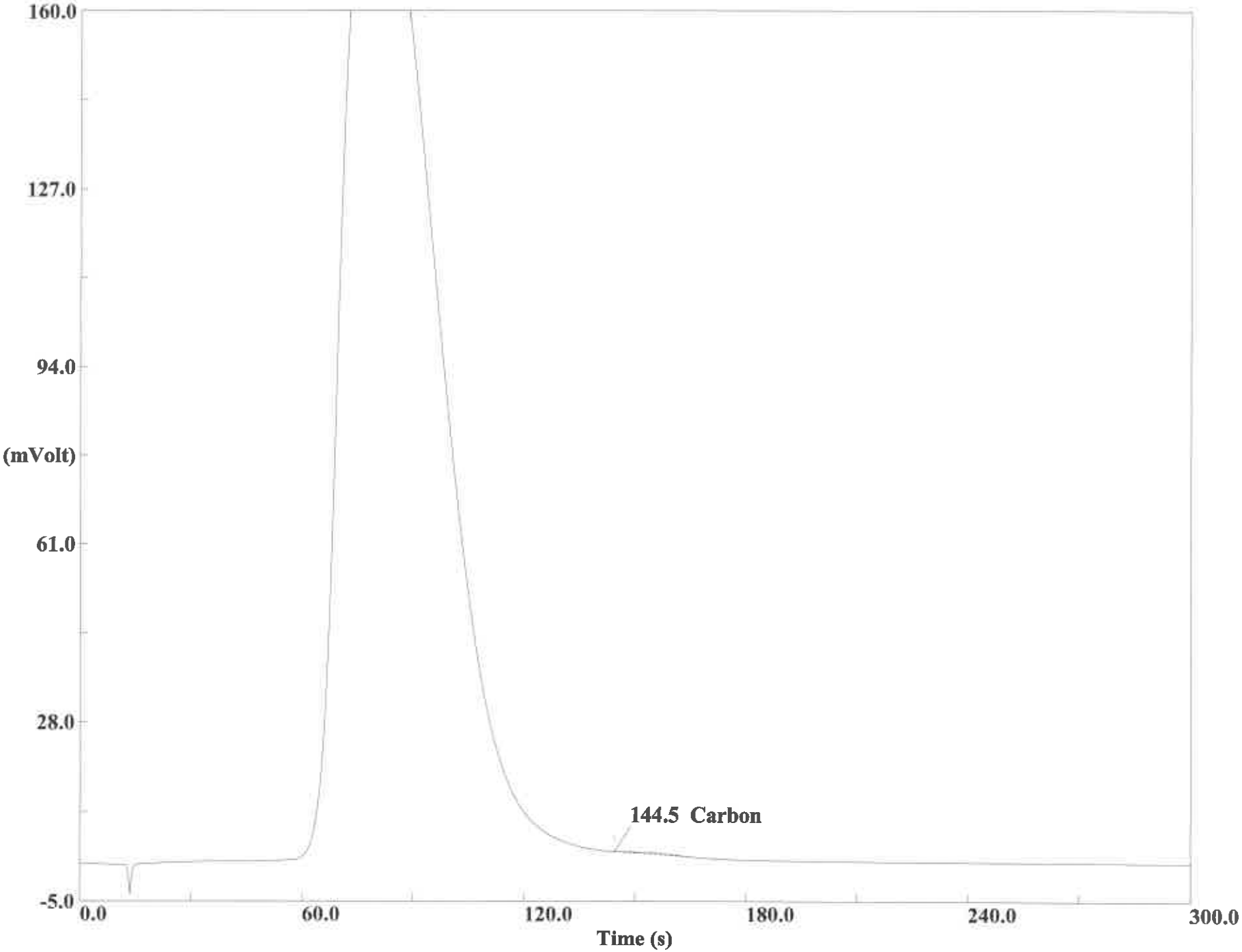
Page: 1 Sample: 180-82502-c-3 (A100318039)

Method Name : Lloyd Kahn
Method File : C:\data\January\100318.mth
Chromatogram : A100318039
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 17:13 Printed : 10/4/2018 08:53
Sample ID : 180-82502-c-3 (# 52)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 21.2

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.1982	143	35842	mi	1.000000	

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318040.DAT
Sample name :180-82502-c-3 Analysed :10/03/2018 17:18

Eager 300 Report

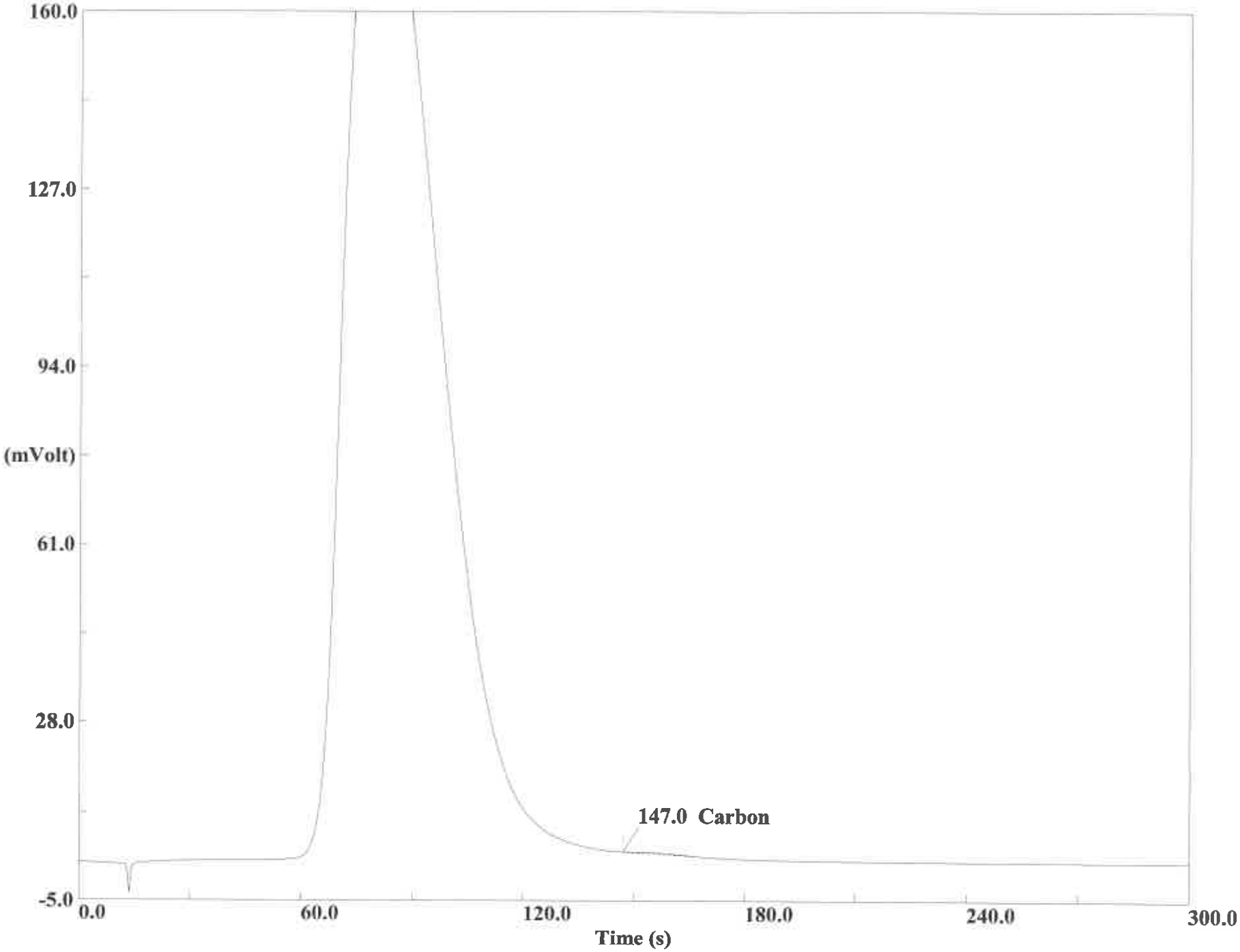
Page: 1 Sample: 180-82502-c-3 (A100318040)

Method Name : Lloyd Kahn
Method File : C:\data\January\100318.mth
Chromatogram : A100318040
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 17:18 Printed : 10/4/2018 08:53
Sample ID : 180-82502-c-3 (# 53)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20.9

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.1923	145	31558	mi	1.000000	

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318041.DAT
Sample name :180-82502-c-4 Analysed :10/03/2018 17:24

Eager 300 Report

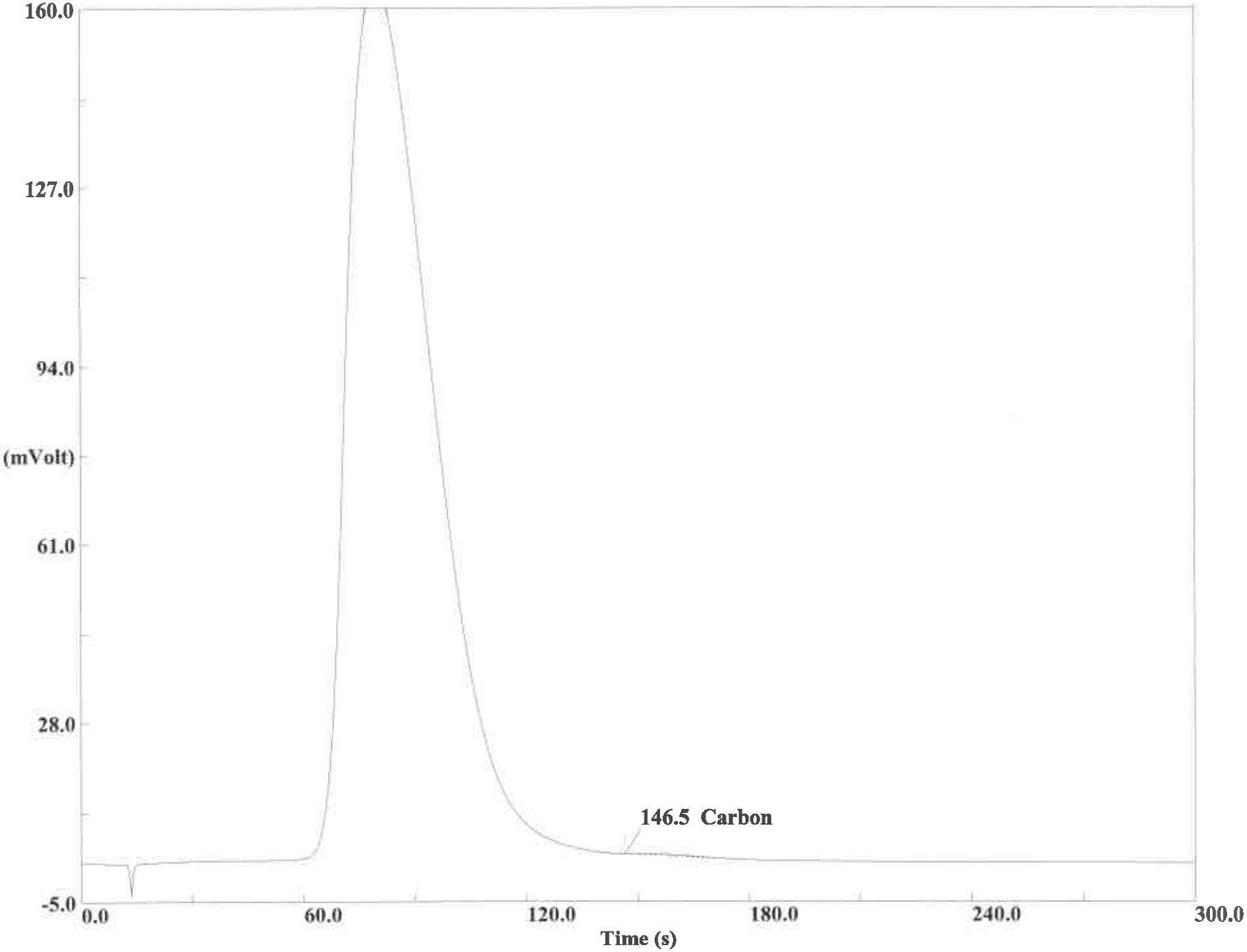
Page: 1 Sample: 180-82502-c-4 (A100318041)

Method Name : Lloyd Kahn
Method File : C:\data\January\100318.mth
Chromatogram : A100318041
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 17:24 Printed : 10/4/2018 08:53
Sample ID : 180-82502-c-4 (# 54)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 21.7

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.1747	147	26234	mi	1.000000	

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318042.DAT
Sample name :180-82502-c-4 Analysed :10/03/2018 17:29

Eager 300 Report

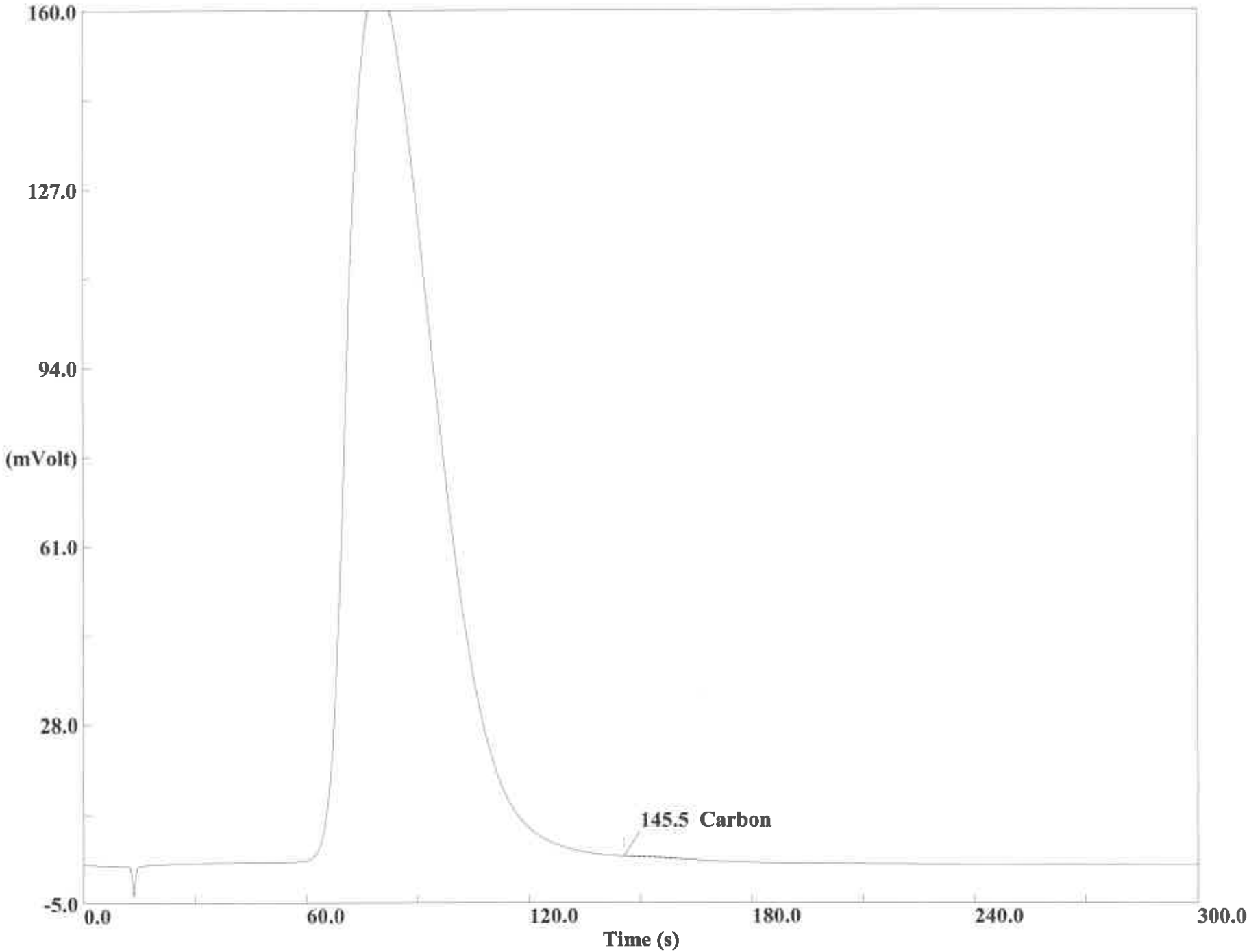
Page: 1 Sample: 180-82502-c-4 (A100318042)

Method Name : Lloyd Kahn
Method File : C:\data\January\100318.mth
Chromatogram : A100318042
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 17:29 Printed : 10/4/2018 08:53
Sample ID : 180-82502-c-4 (# 55)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 21.5

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.2033	147	39765	mi	1.000000	

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318043.DAT
Sample name :180-82502-b-6 Analysed :10/03/2018 17:34

Eager 300 Report

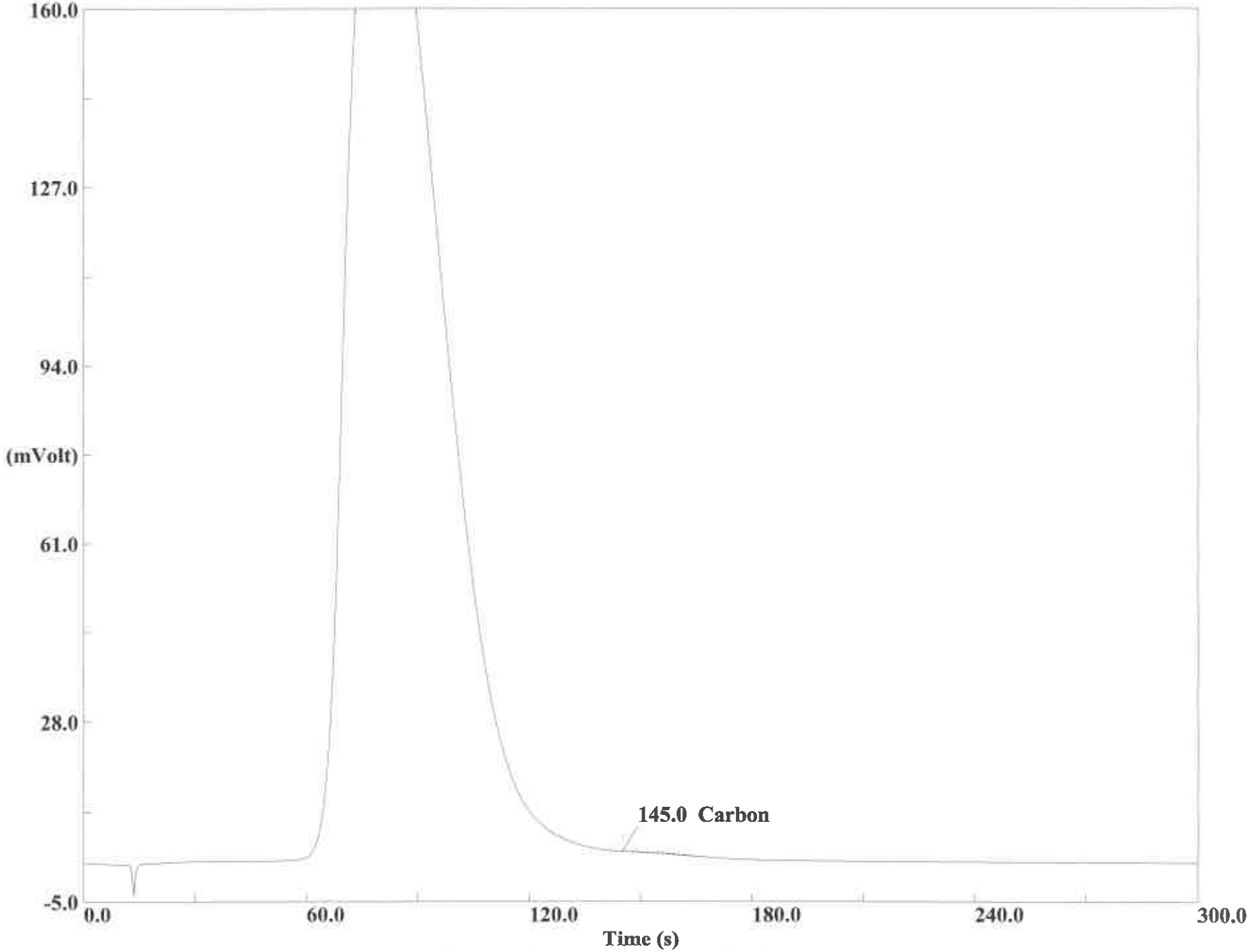
Page: 1 Sample: 180-82502-b-6 (A100318043)

Method Name : Lloyd Kahn
Method File : C:\data\January\100318.mth
Chromatogram : A100318043
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 17:34 Printed : 10/4/2018 08:53
Sample ID : 180-82502-b-6 (# 56)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 21

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.1714	146	21760	mi	1.000000	

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318044.DAT
Sample name :180-82502-b-6 Analysed :10/03/2018 17:39

Eager 300 Report

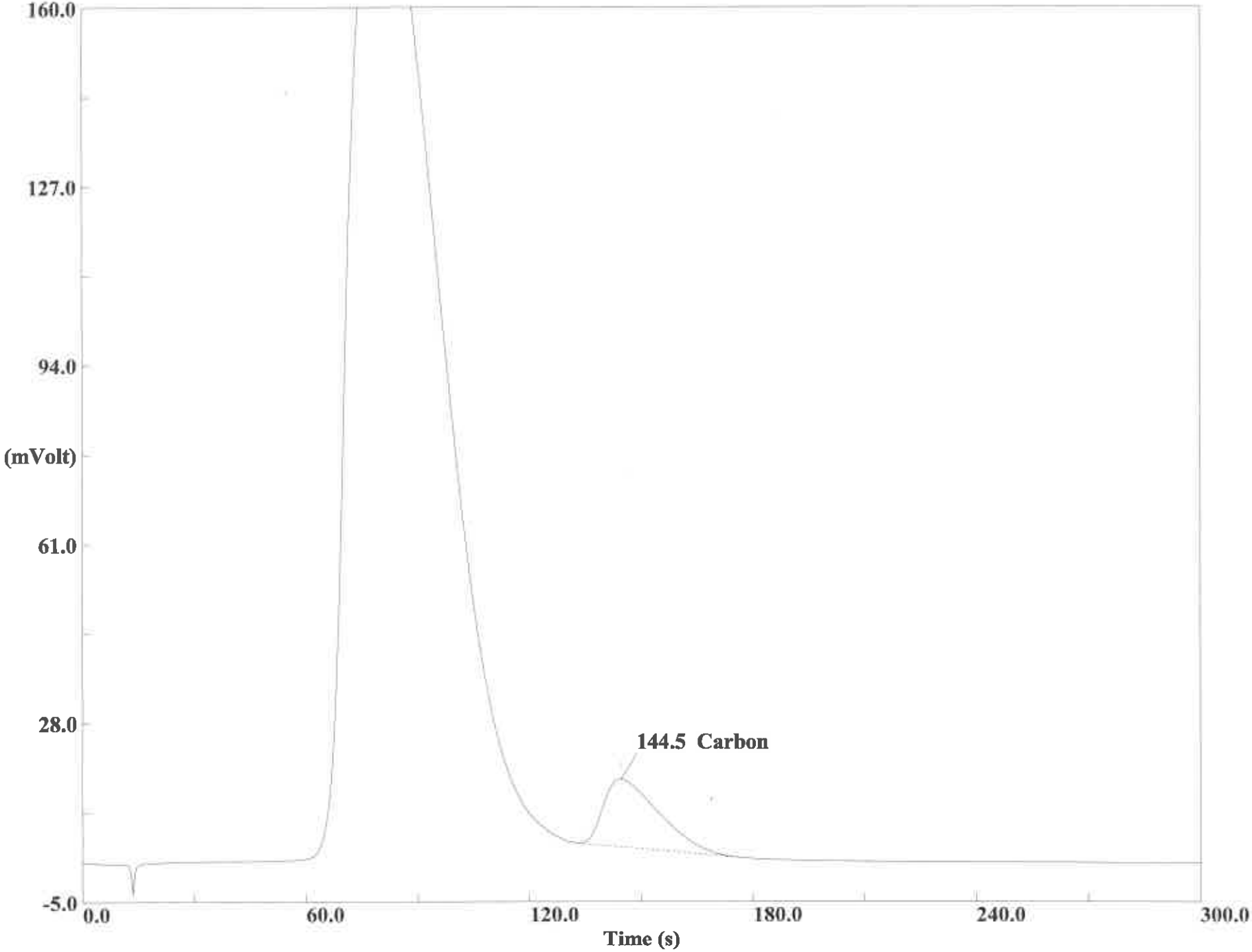
Page: 1 Sample: 180-82502-b-6 (A100318044)

Method Name : Lloyd Kahn
Method File : C:\data\January\100318.mth
Chromatogram : A100318044
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 17:39 Printed : 10/4/2018 08:53
Sample ID : 180-82502-b-6 (# 57)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 21.3

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.1799	145	27190	mi	1.000000	

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318045.DAT
Sample name :ccv Analysed :10/03/2018 17:44

Eager 300 Report

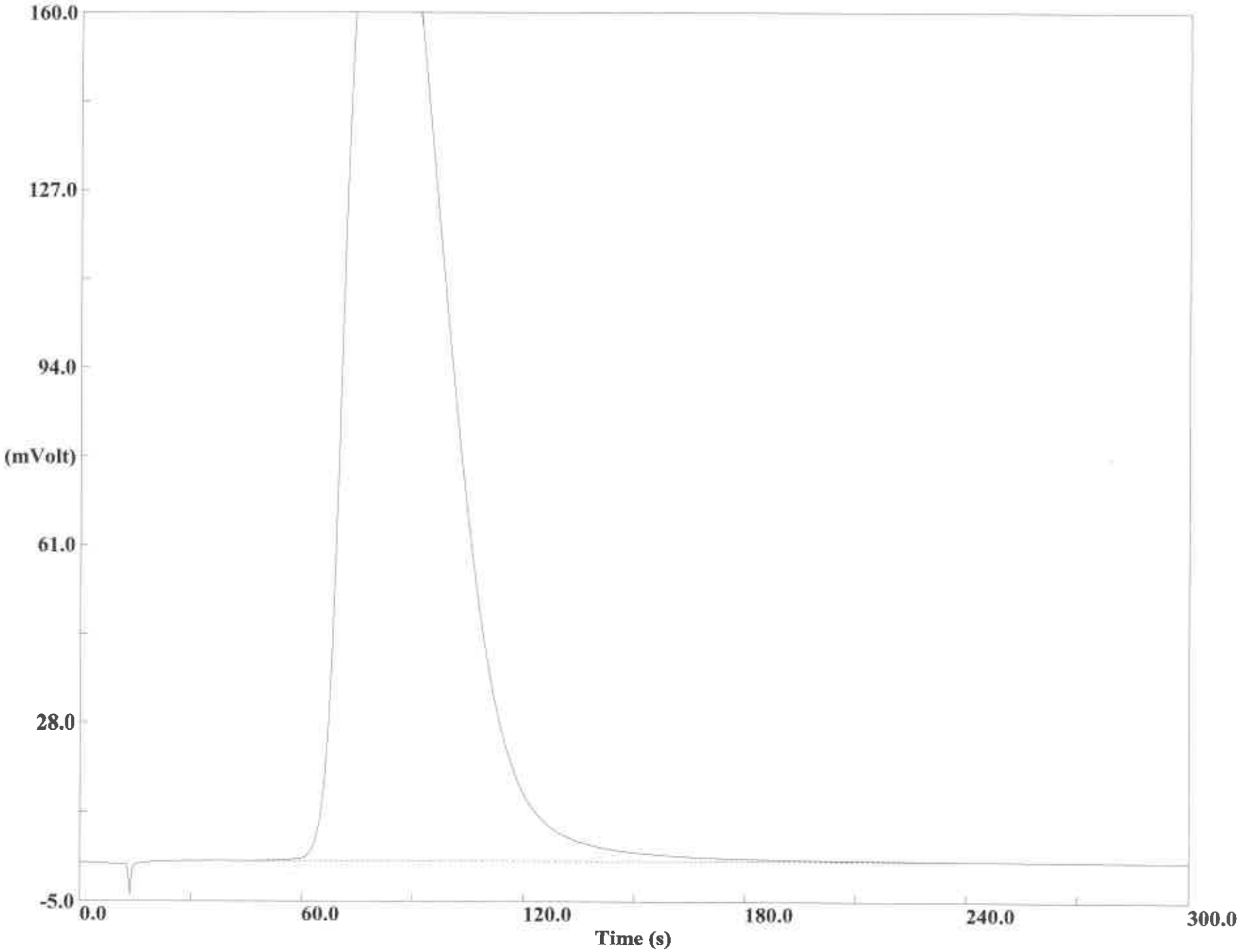
Page: 1 Sample: ccv (A100318045)

Method Name : Lloyd Kahn
Method File : C:\data\January\100318.mth
Chromatogram : A100318045
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 17:44 Printed : 10/4/2018 08:54
Sample ID : ccv (# 58)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 100

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.9542	145	2164540	mi	1.000000	

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318046.DAT
Sample name :ccb Analysed :10/03/2018 17:49

Eager 300 Report

Page: 1 Sample: ccb (A100318046)

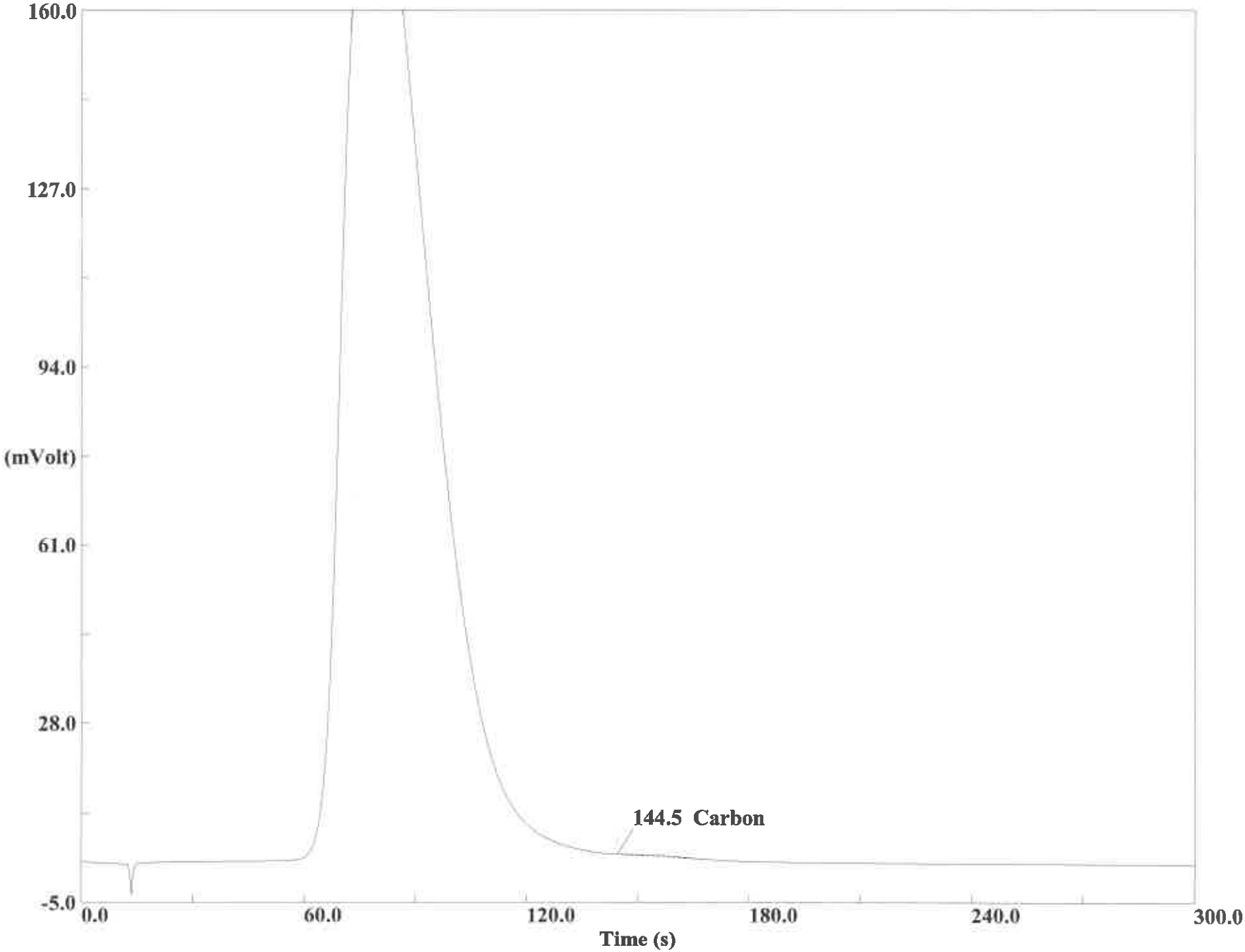
Method Name : Lloyd Kahn
Method File : C:\data\January\100318.mth
Chromatogram : A100318046
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 17:49 Printed : 10/4/2018 08:54
Sample ID : ccb (# 59)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20

Calib. method : using 'Least Squares to Linear fit'

!!! Warning missing one or more peaks.

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318047.DAT
Sample name :180-82502-c-7 Analysed :10/03/2018 17:54

Eager 300 Report

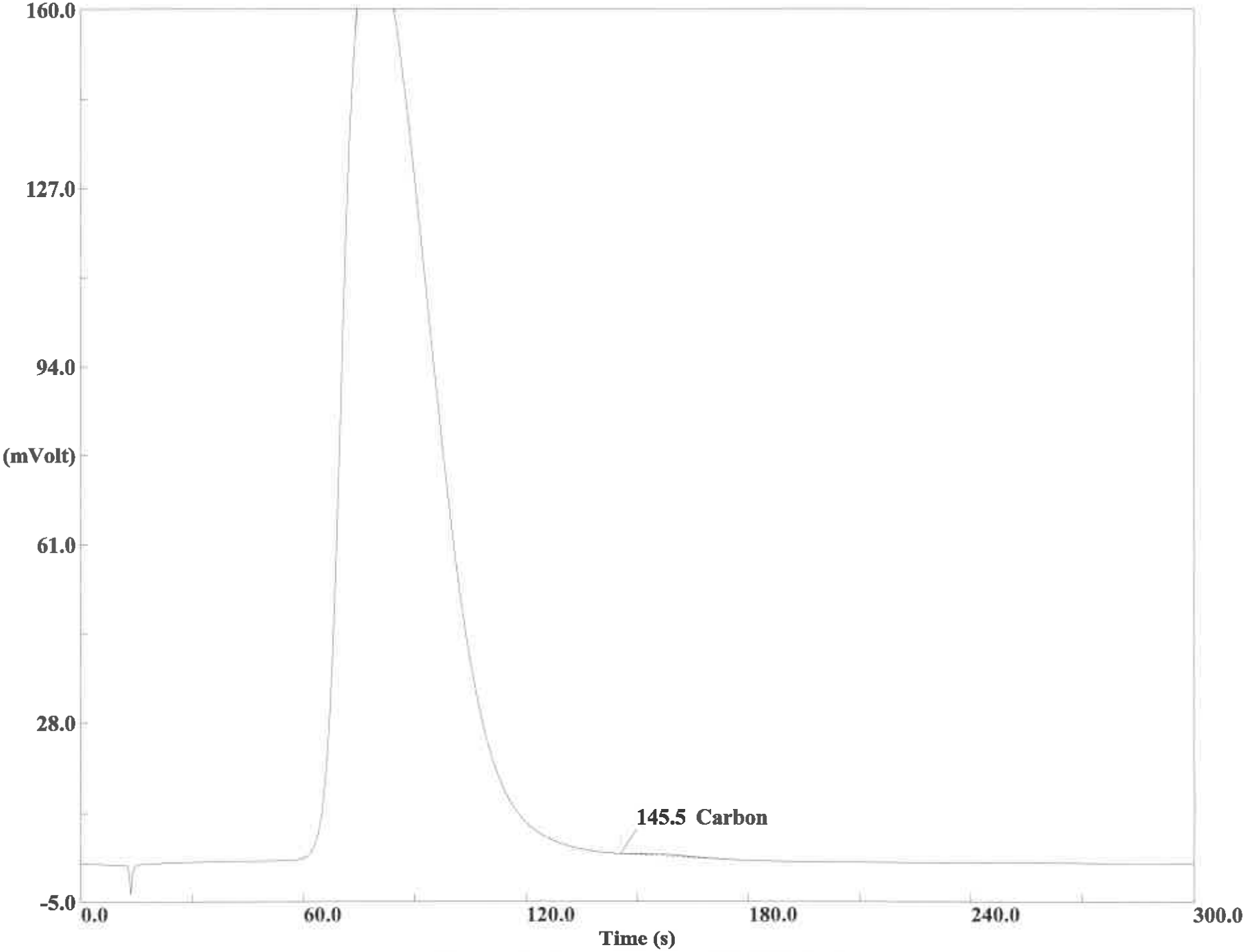
Page: 1 Sample: 180-82502-c-7 (A100318047)

Method Name : Lloyd Kahn
Method File : C:\data\January\100318.mth
Chromatogram : A100318047
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 17:54 Printed : 10/4/2018 08:54
Sample ID : 180-82502-c-7 (# 60)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 21.1

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.1894	145	31031	mi	1.000000	

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318048.DAT
Sample name :180-82502-c-7 Analysed :10/03/2018 17:59

Eager 300 Report

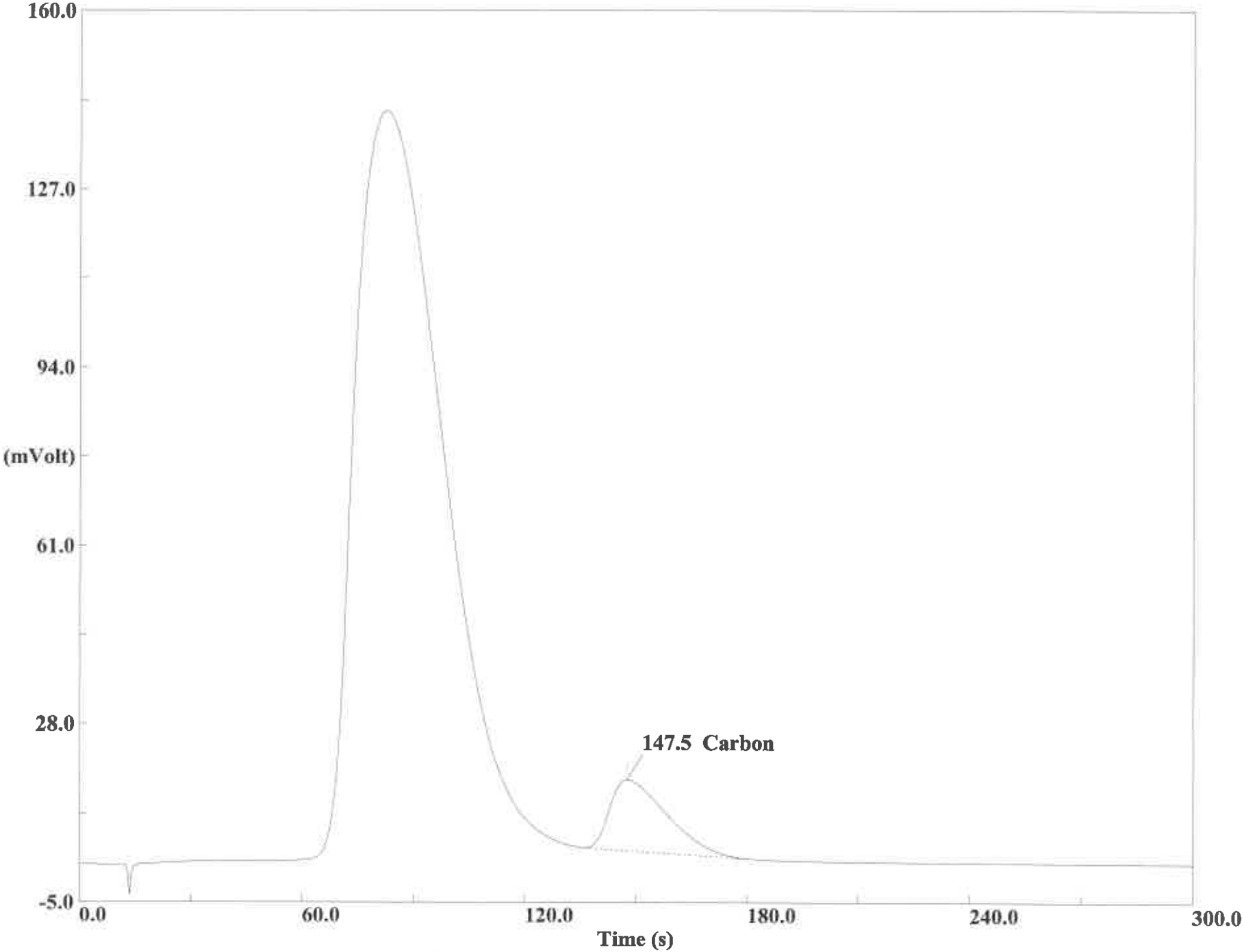
Page: 1 Sample: 180-82502-c-7 (A100318048)

Method Name : Lloyd Kahn
Method File : C:\data\January\100318.mth
Chromatogram : A100318048
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 17:59 Printed : 10/4/2018 08:54
Sample ID : 180-82502-c-7 (# 61)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 21.8

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.1974	146	38198	mi	1.000000	

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318049.DAT
Sample name :ccv Analysed :10/03/2018 18:04

Eager 300 Report

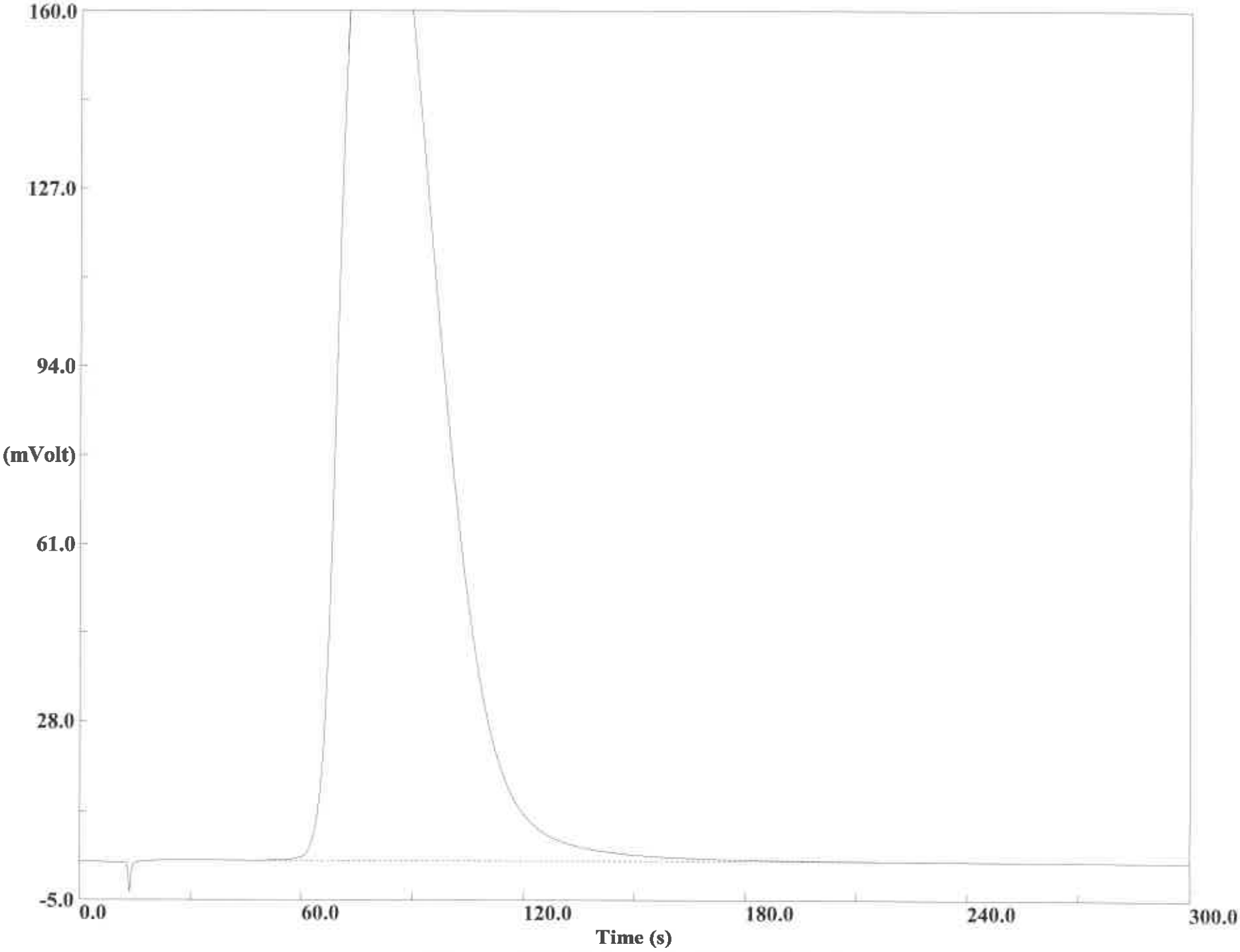
Page: 1 Sample: ccv (A100318049)

Method Name : Lloyd Kahn
Method File : C:\data\January\100318.mth
Chromatogram : A100318049
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 18:04 Printed : 10/4/2018 08:54
Sample ID : ccv (# 62)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 100

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	1.0217	148	2322227	mi	1.000000	

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318050.DAT
Sample name :ccb Analysed :10/03/2018 18:09

Eager 300 Report

Page: 1 Sample: ccb (A100318050)

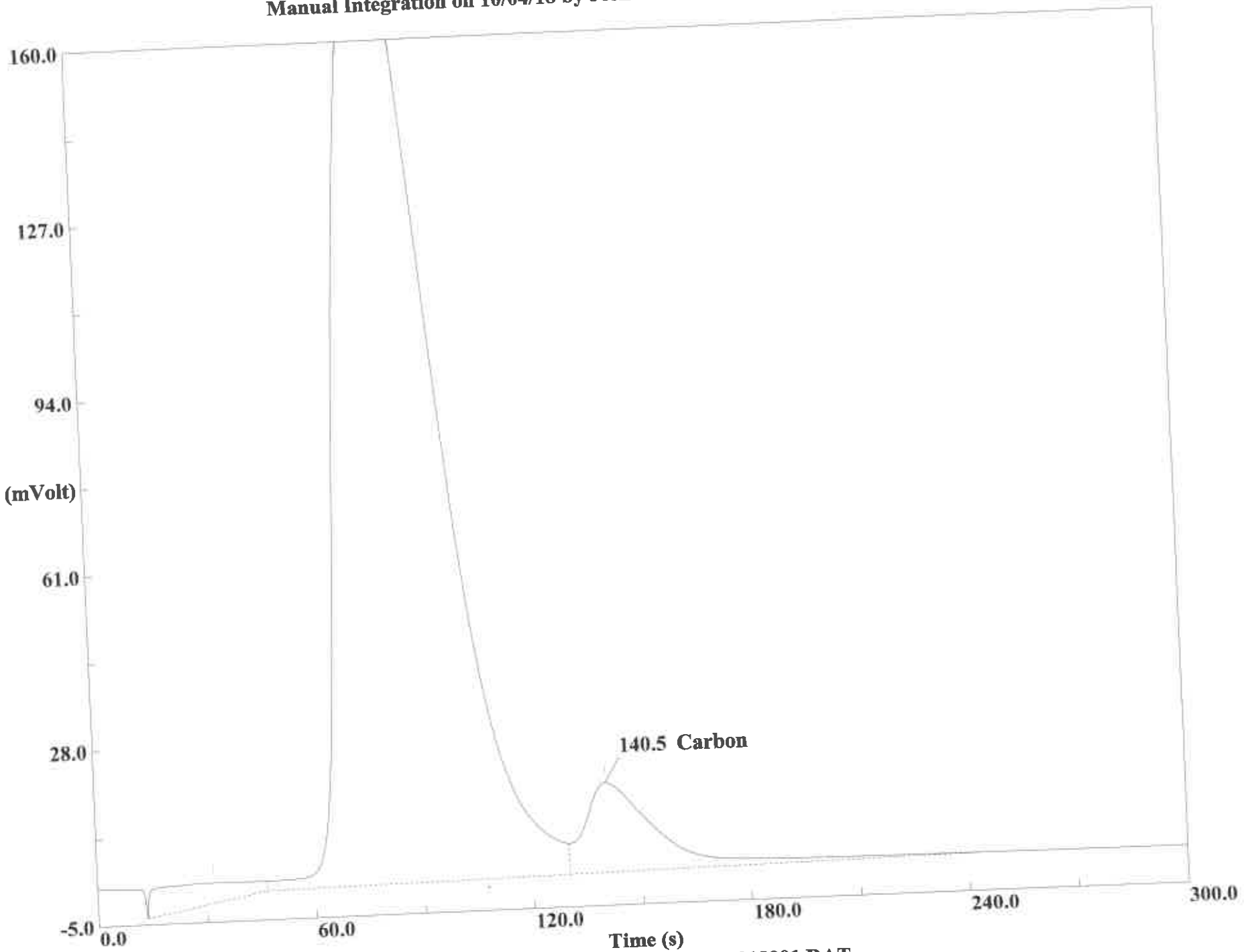
Method Name : Lloyd Kahn
Method File : C:\data\January\100318.mth
Chromatogram : A100318050
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 18:09 Printed : 10/4/2018 08:54
Sample ID : ccb (# 63)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20

Calib. method : using 'Least Squares to Linear fit'

!!! Warning missing one or more peaks.

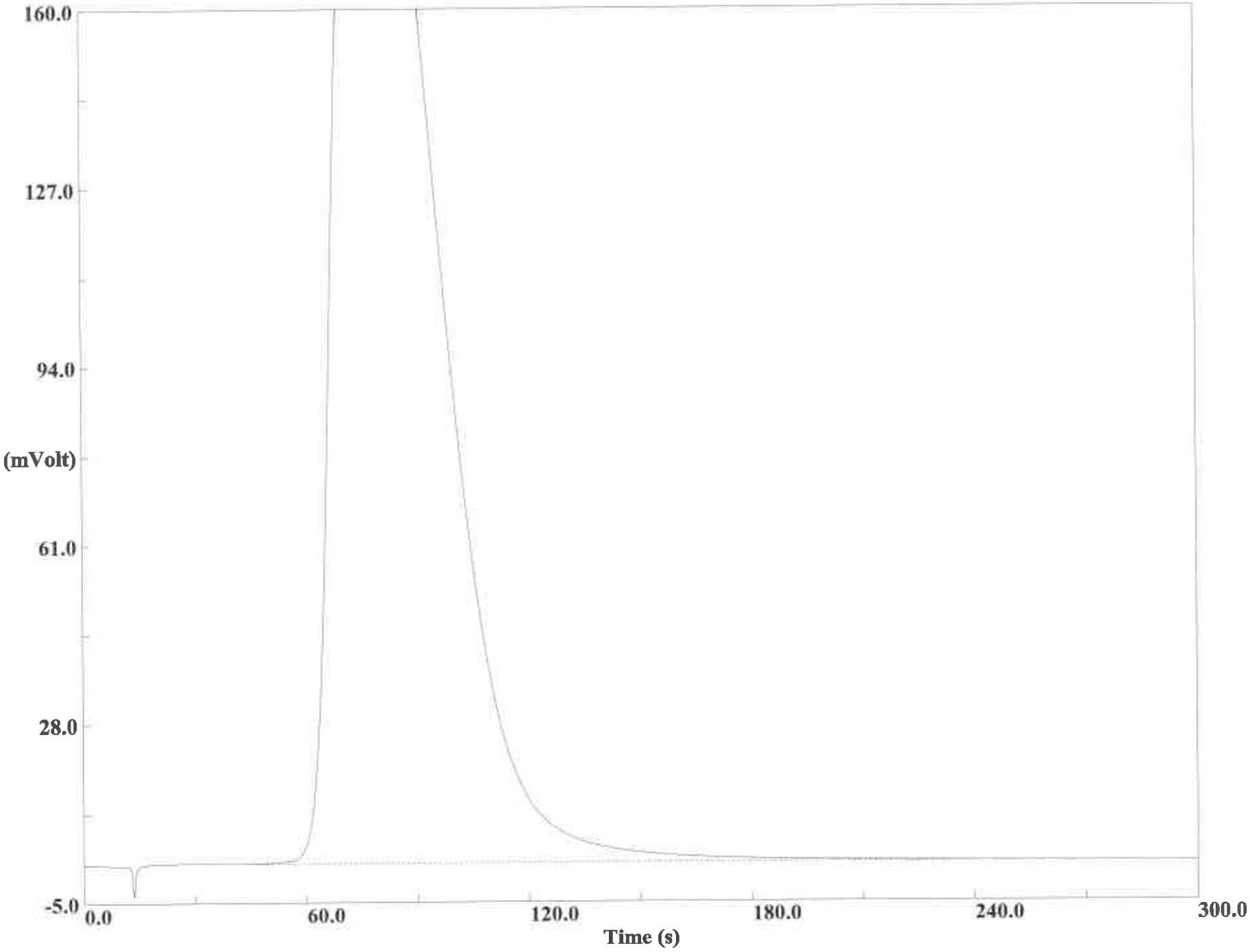
Element Name	%	Ret.Time	Area	BC	Area ratio	K factor

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



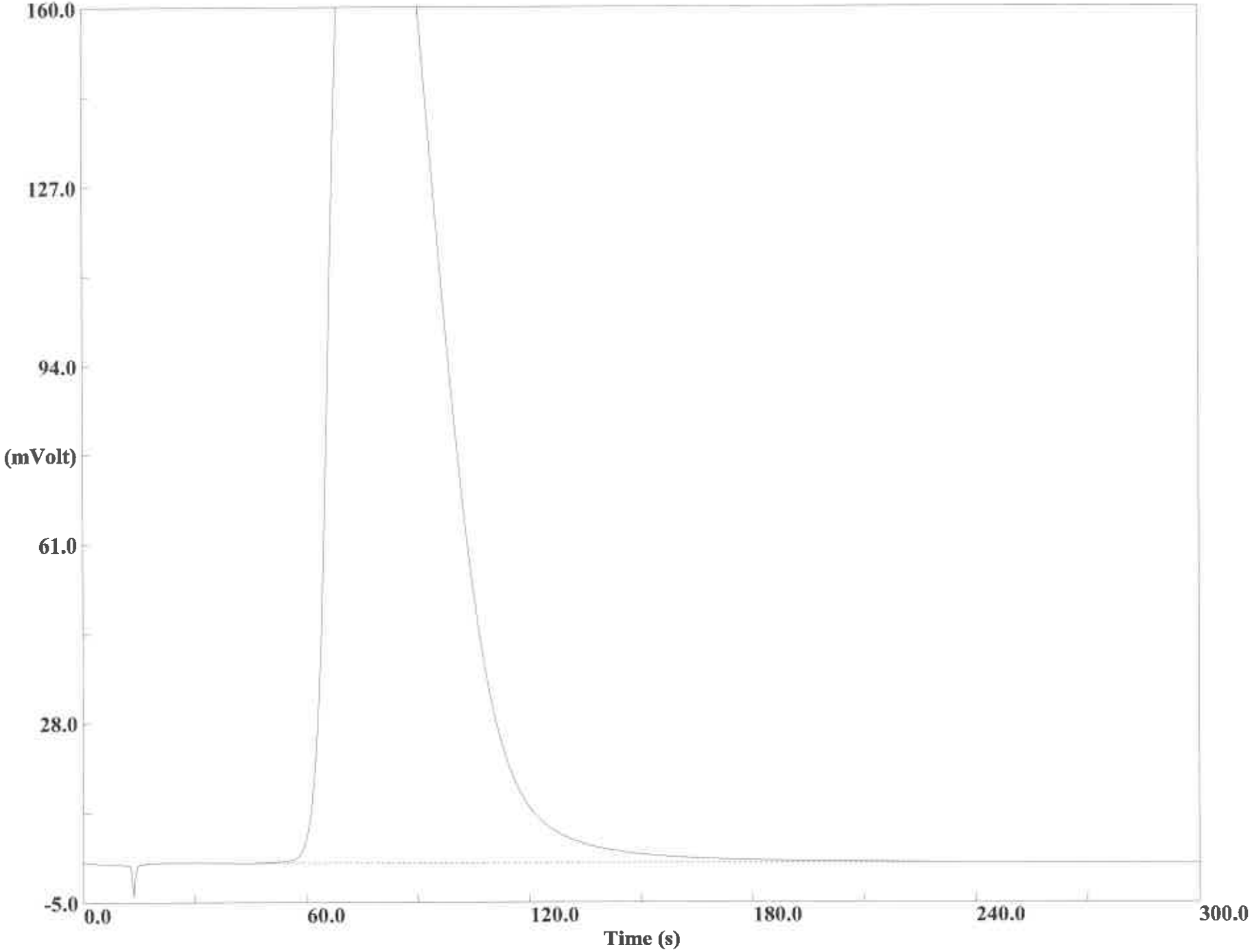
Filename C:\data\January\A100318001.DAT
Sample name :ccv Analysed :10/03/2018 13:57

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



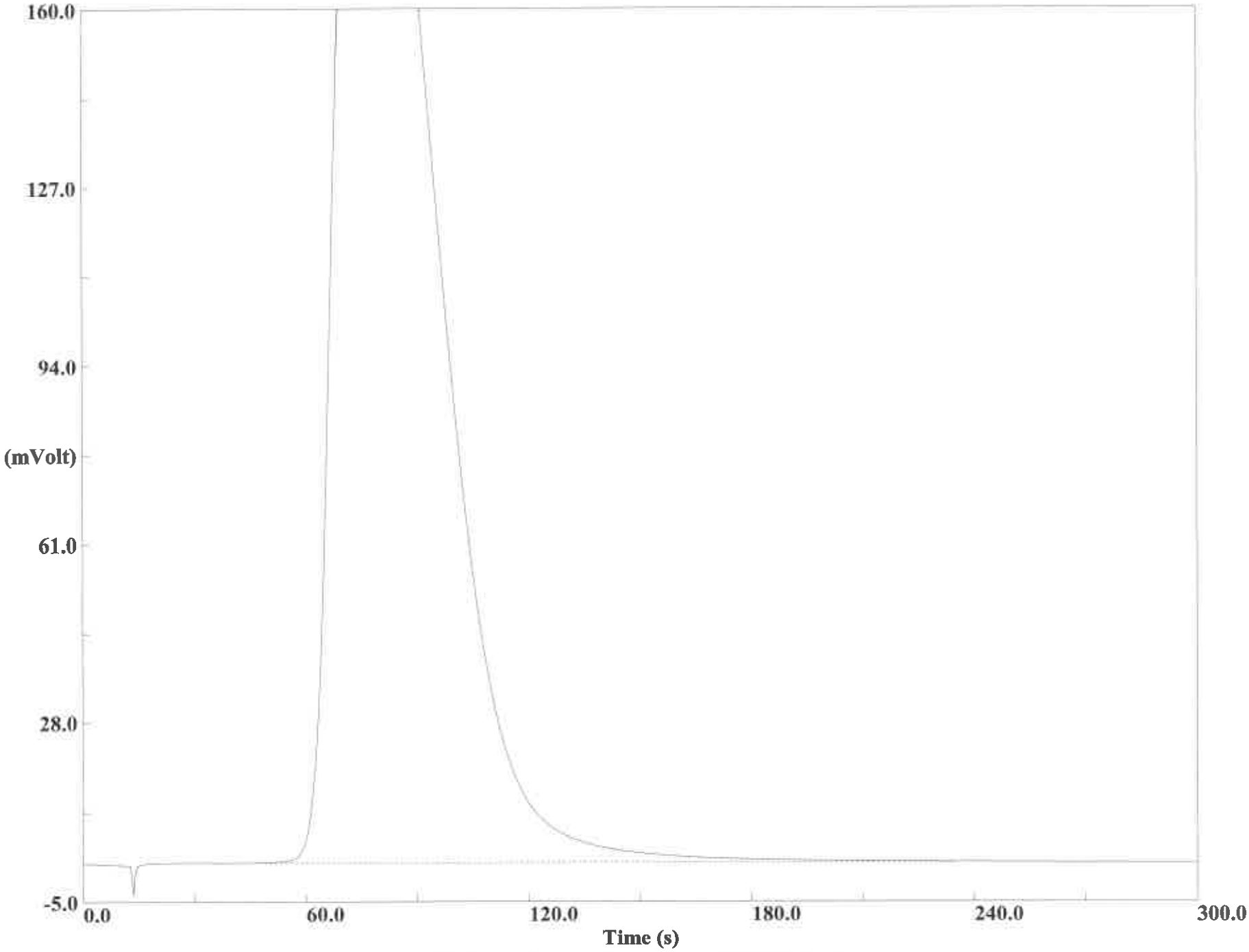
Filename C:\data\January\A100318002.DAT
Sample name :ccb Analysed :10/03/2018 14:03

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



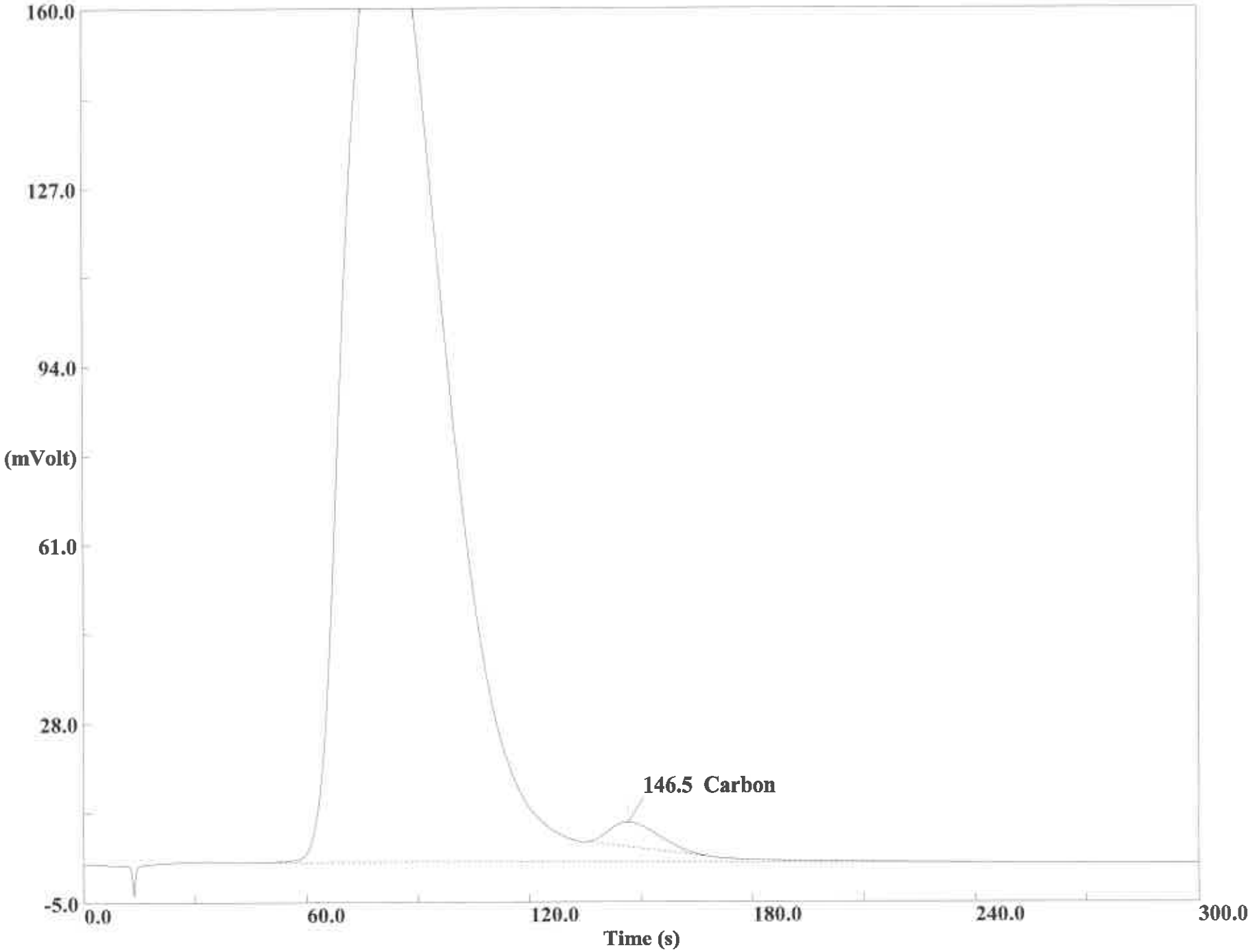
Filename C:\data\January\A100318003.DAT
Sample name :mb Analysed :10/03/2018 14:08

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



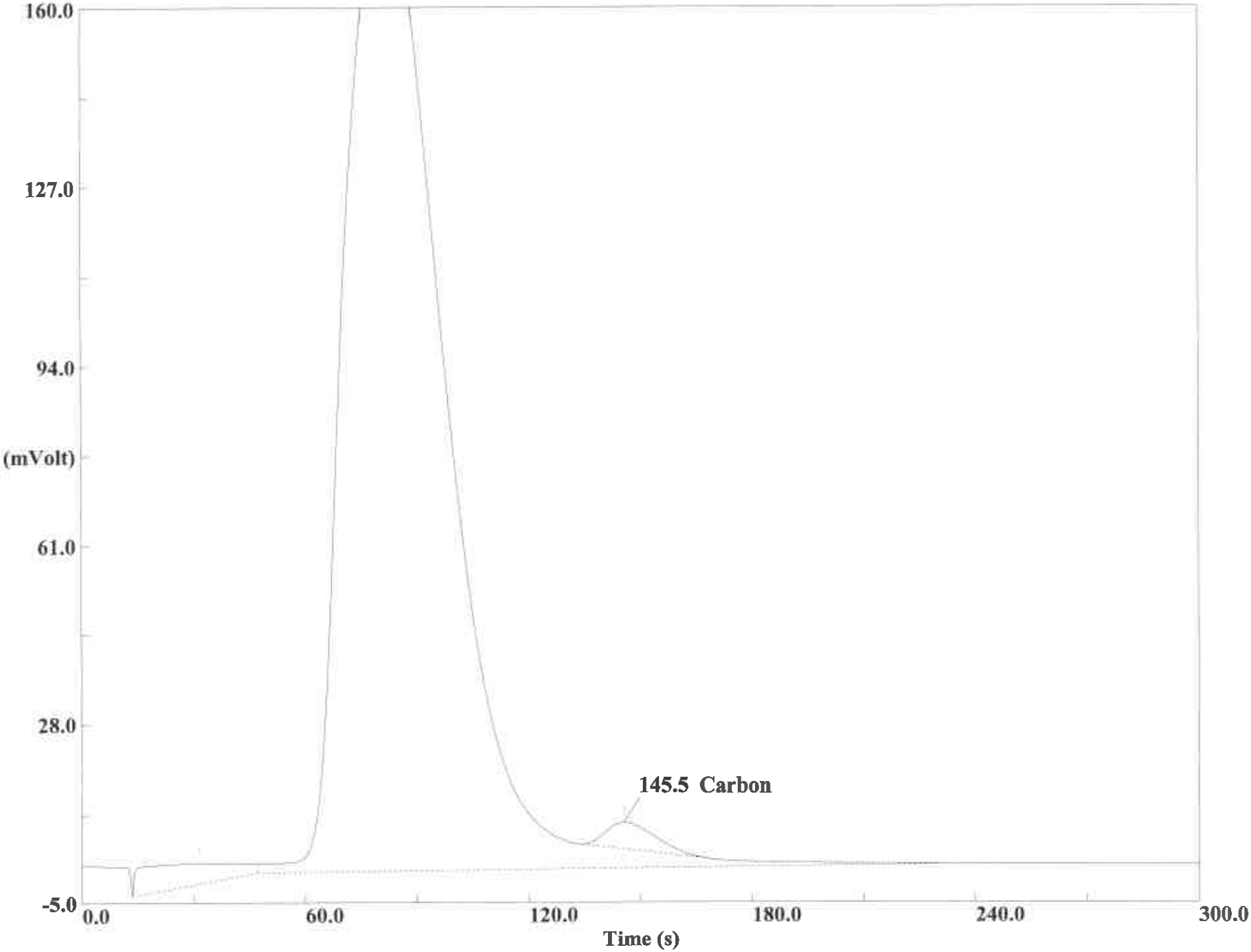
Filename C:\data\January\A100318004.DAT
Sample name :mb Analysed :10/03/2018 14:13

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



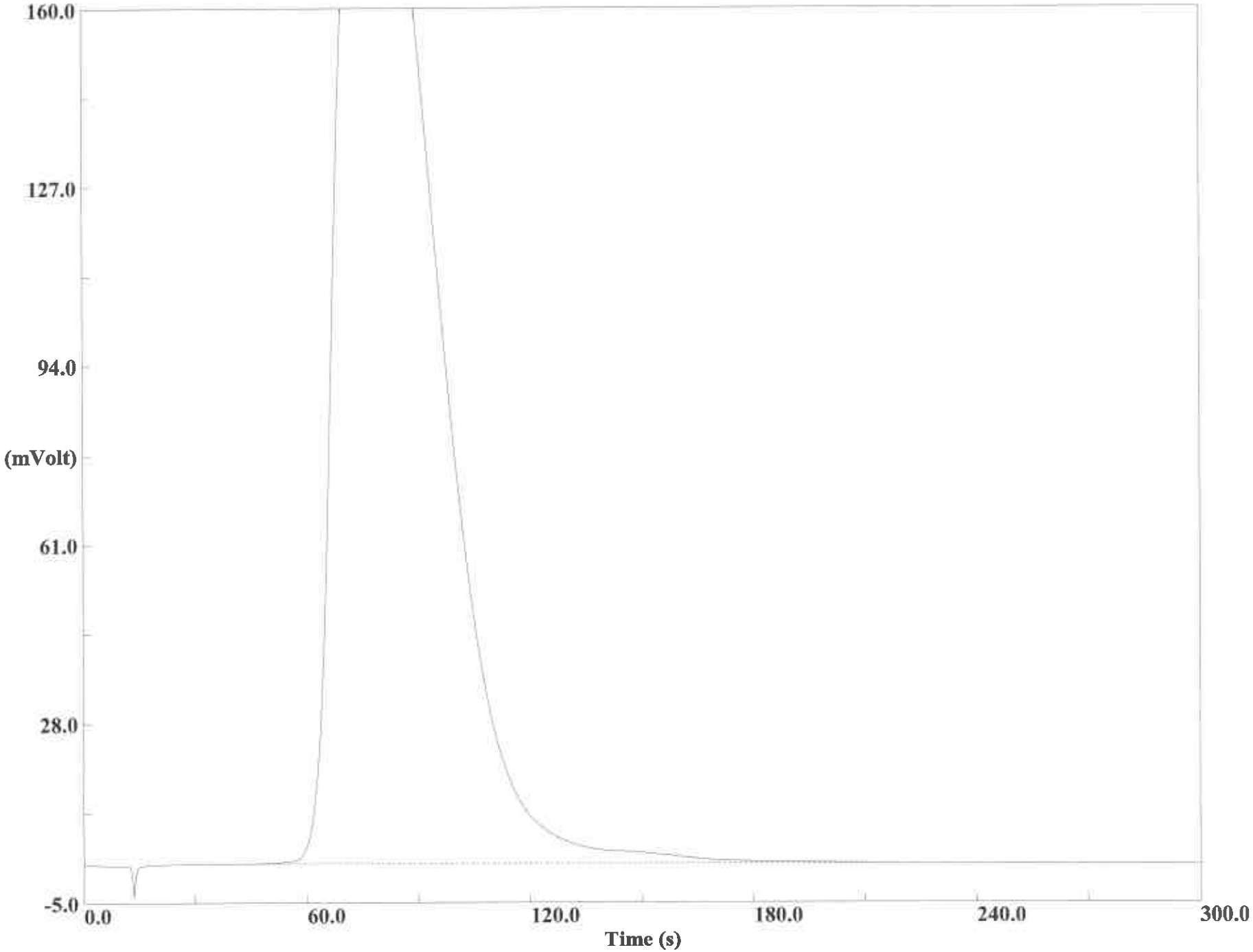
Filename C:\data\January\A100318005.DAT
Sample name :lcs Analysed :10/03/2018 14:18

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



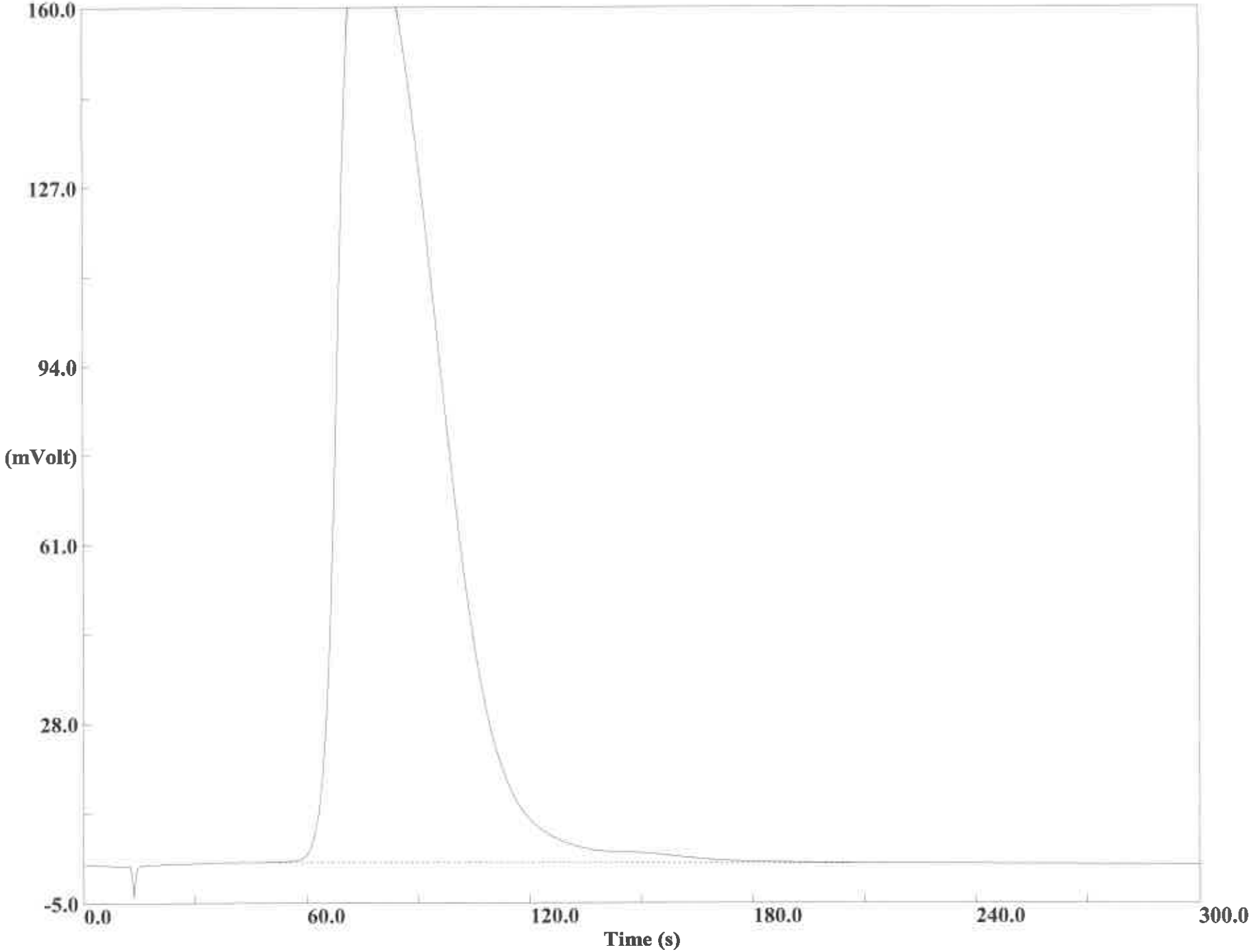
Filename C:\data\January\A100318006.DAT
Sample name :lcs Analysed :10/03/2018 14:25

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



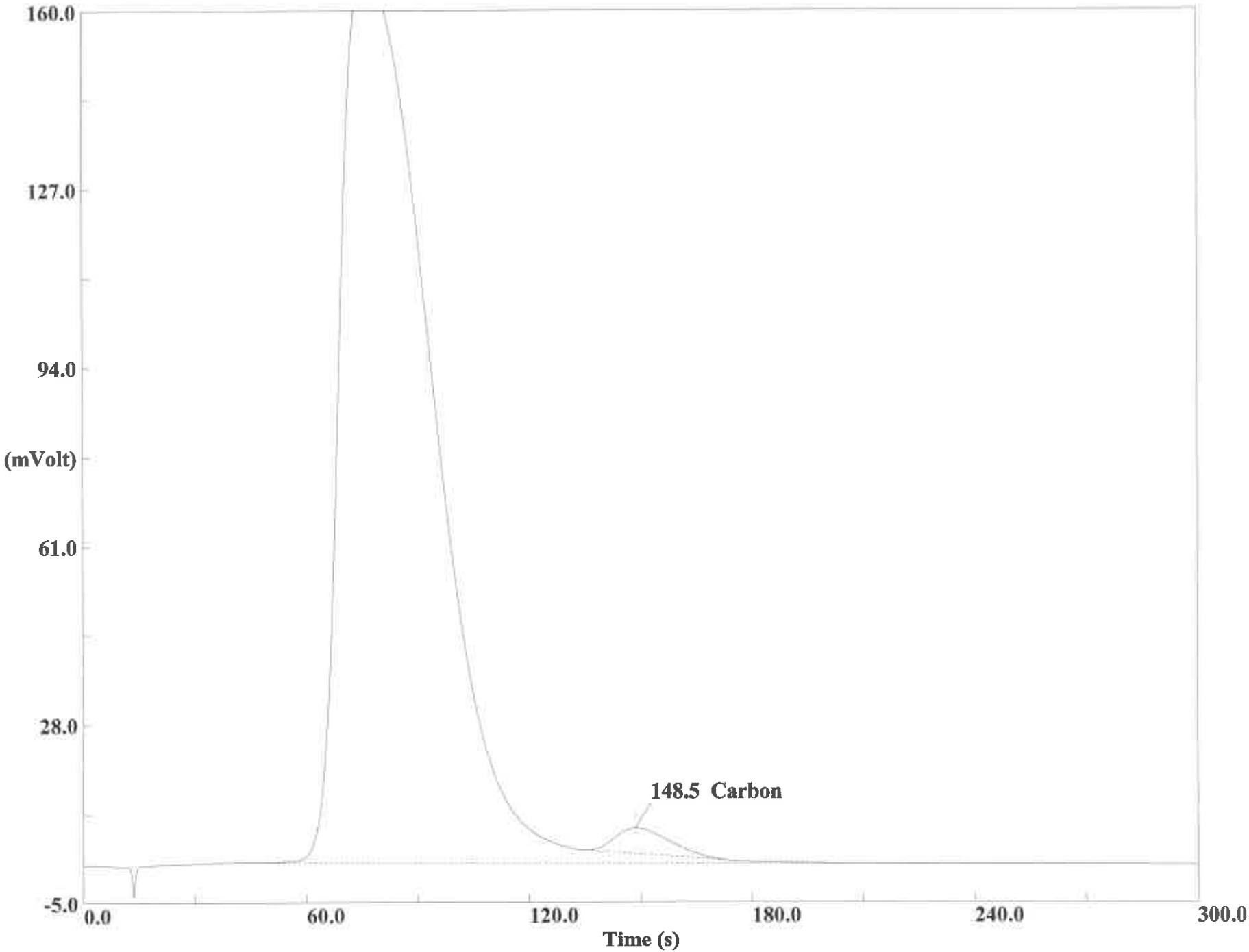
Filename C:\data\January\A100318007.DAT
Sample name :180-82502-b-5 Analysed :10/03/2018 14:30

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



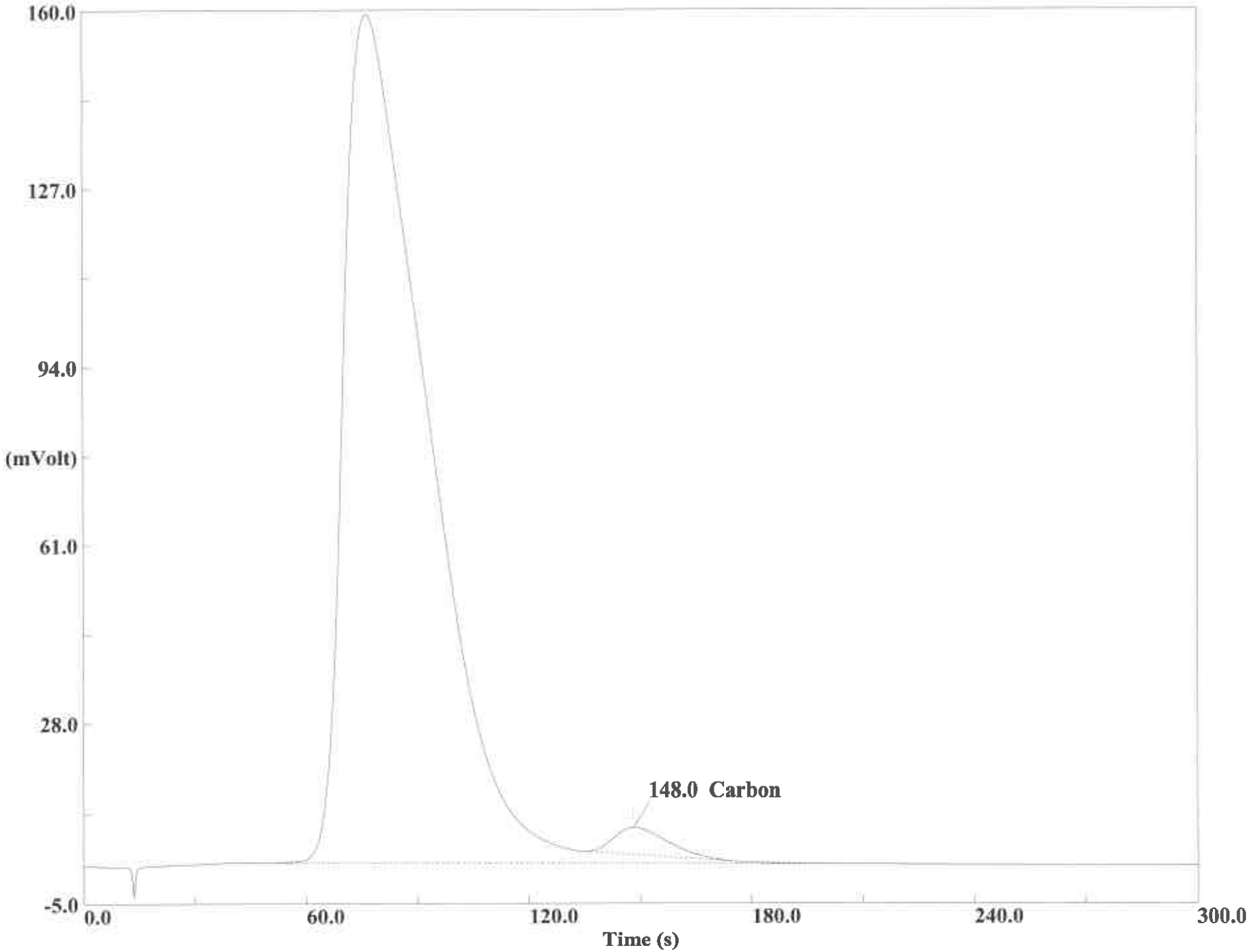
Filename C:\data\January\A100318008.DAT
Sample name :180-82502-b-5 Analysed :10/03/2018 14:36

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



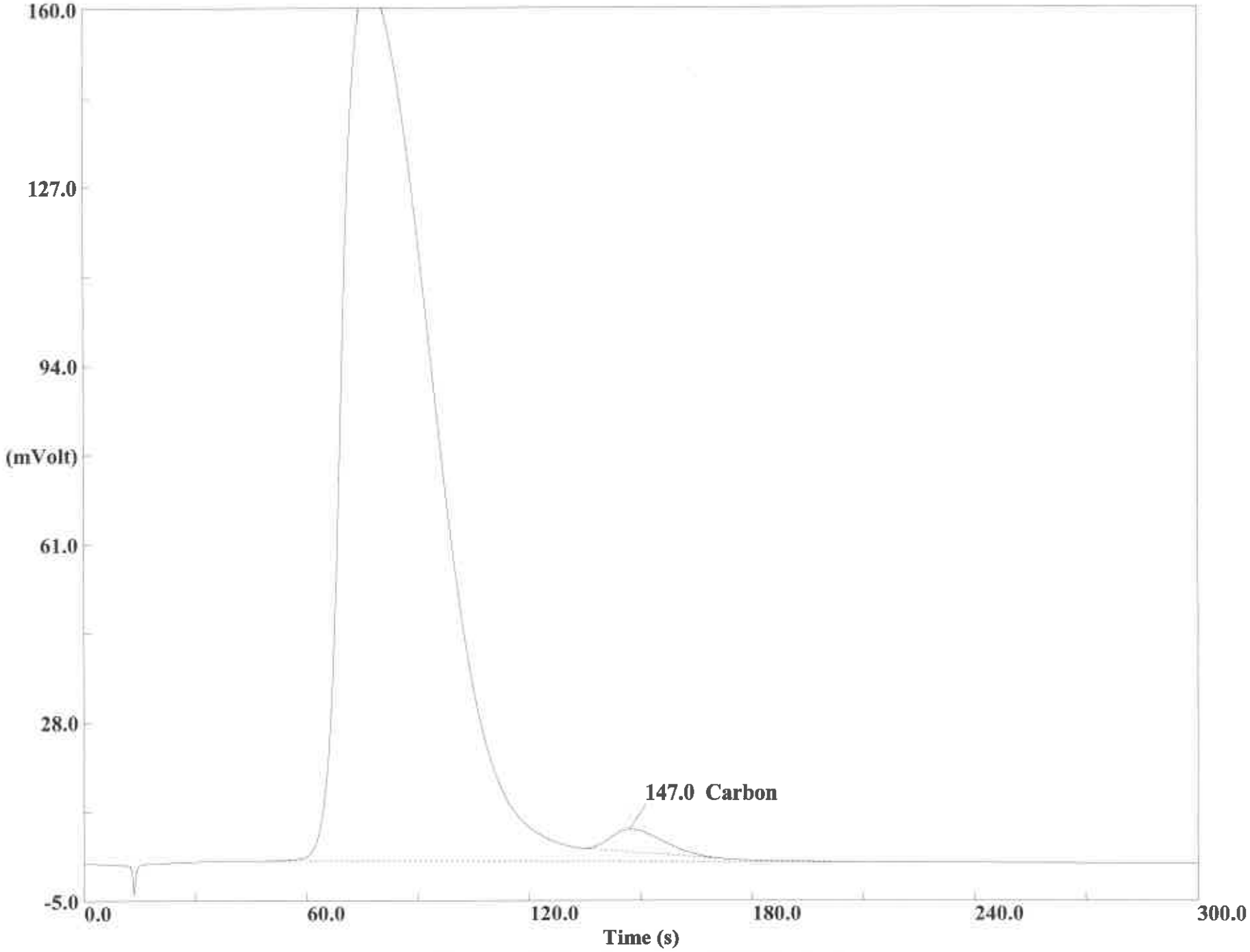
Filename C:\data\January\A100318009.DAT
Sample name :180-82502-b-5 ms Analysed :10/03/2018 14:41

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



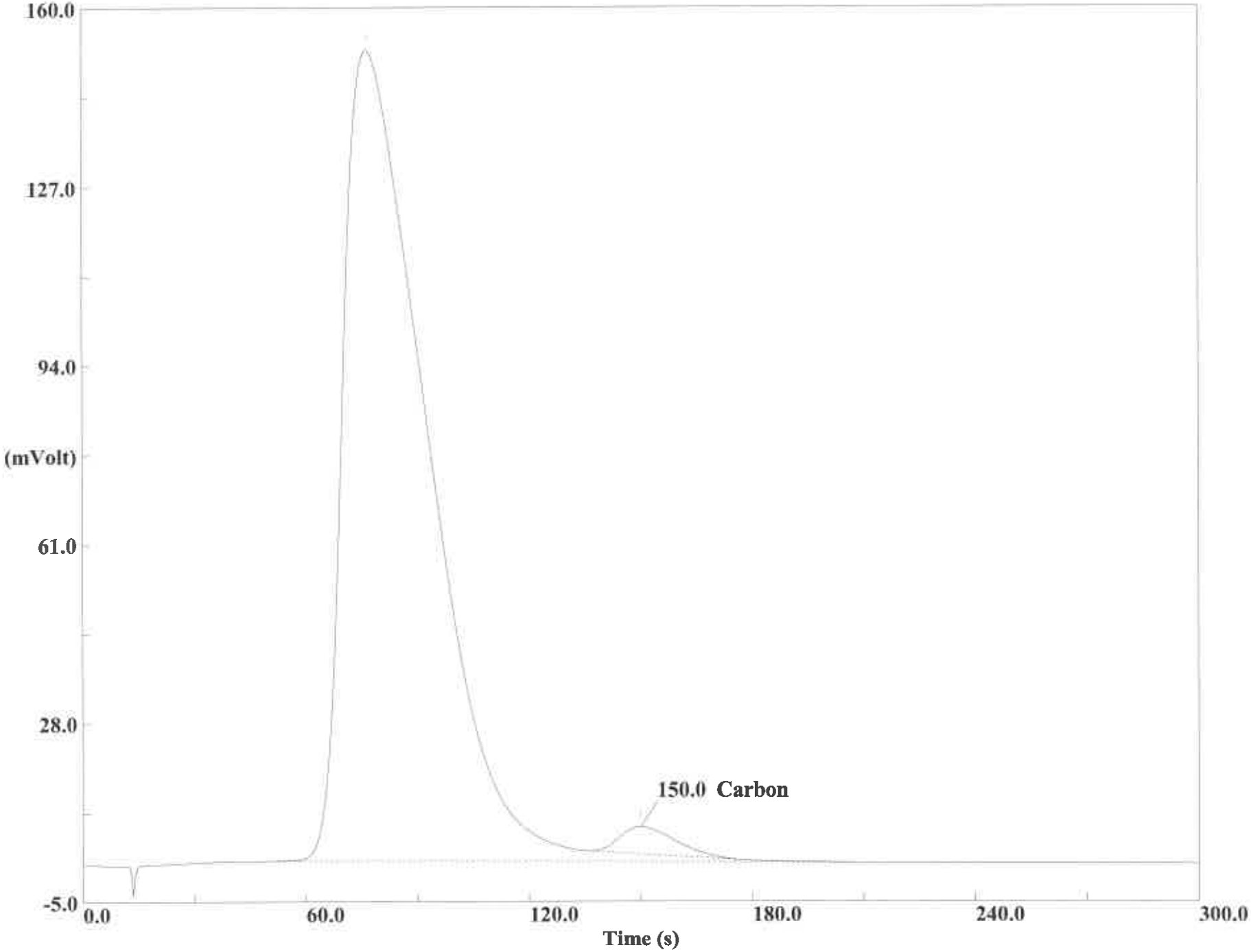
Filename C:\data\January\A100318010.DAT
Sample name :180-82502-b-5 ms Analysed :10/03/2018 14:46

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



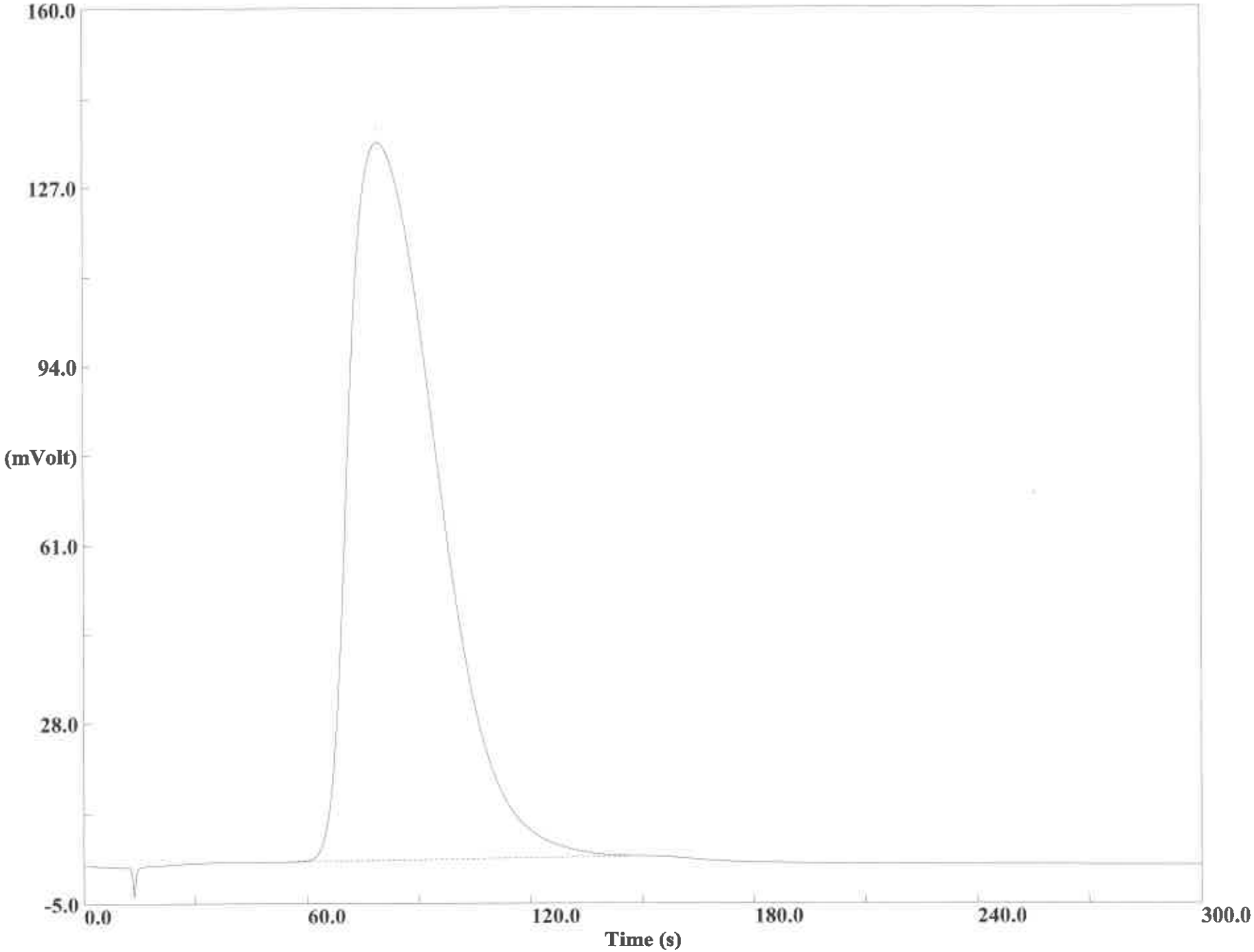
Filename C:\data\January\A100318011.DAT
Sample name :180-82502-b-5 msd Analysed :10/03/2018 14:51

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



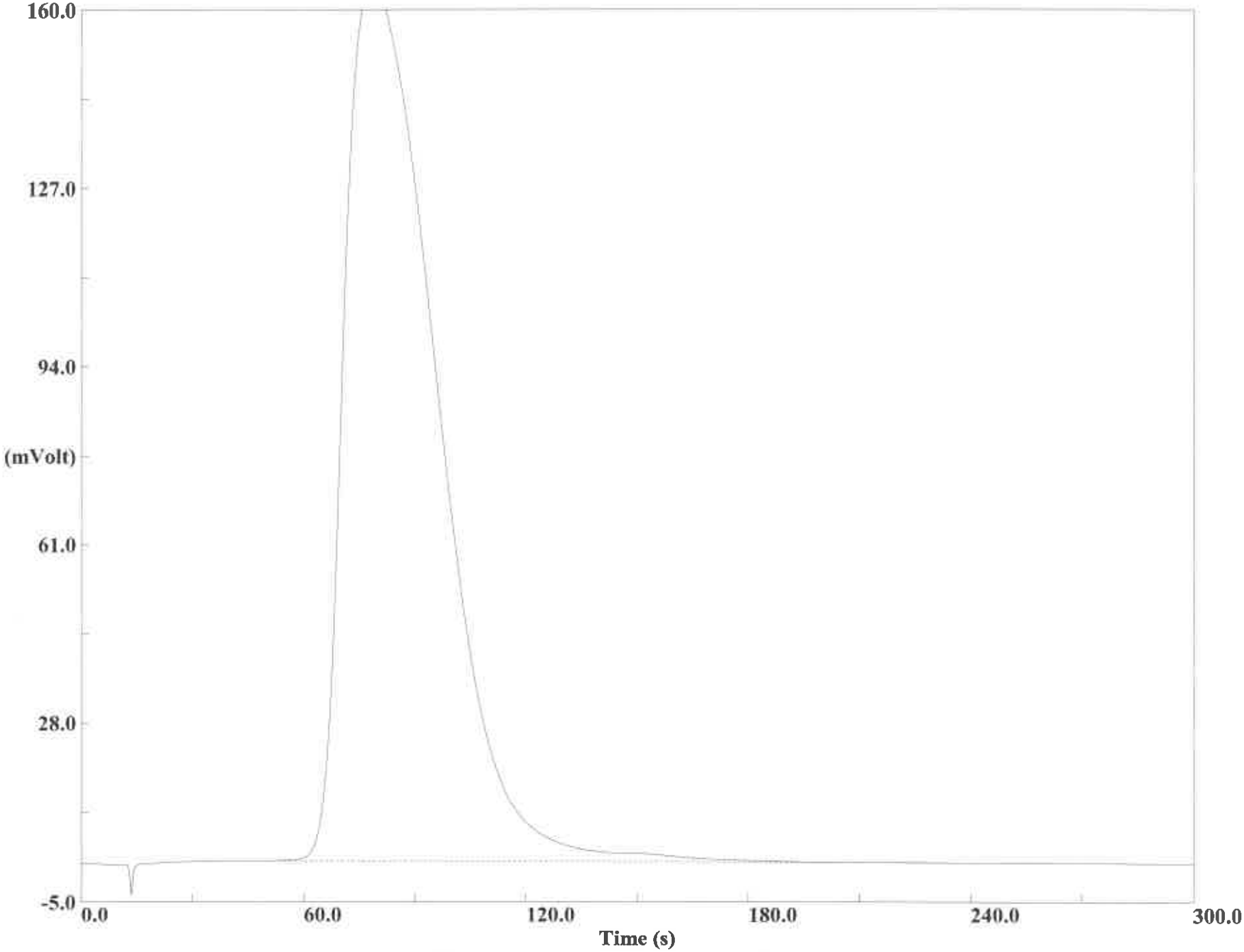
Filename C:\data\January\A100318012.DAT
Sample name :180-82502-b-5 msd Analysed :10/03/2018 14:56

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



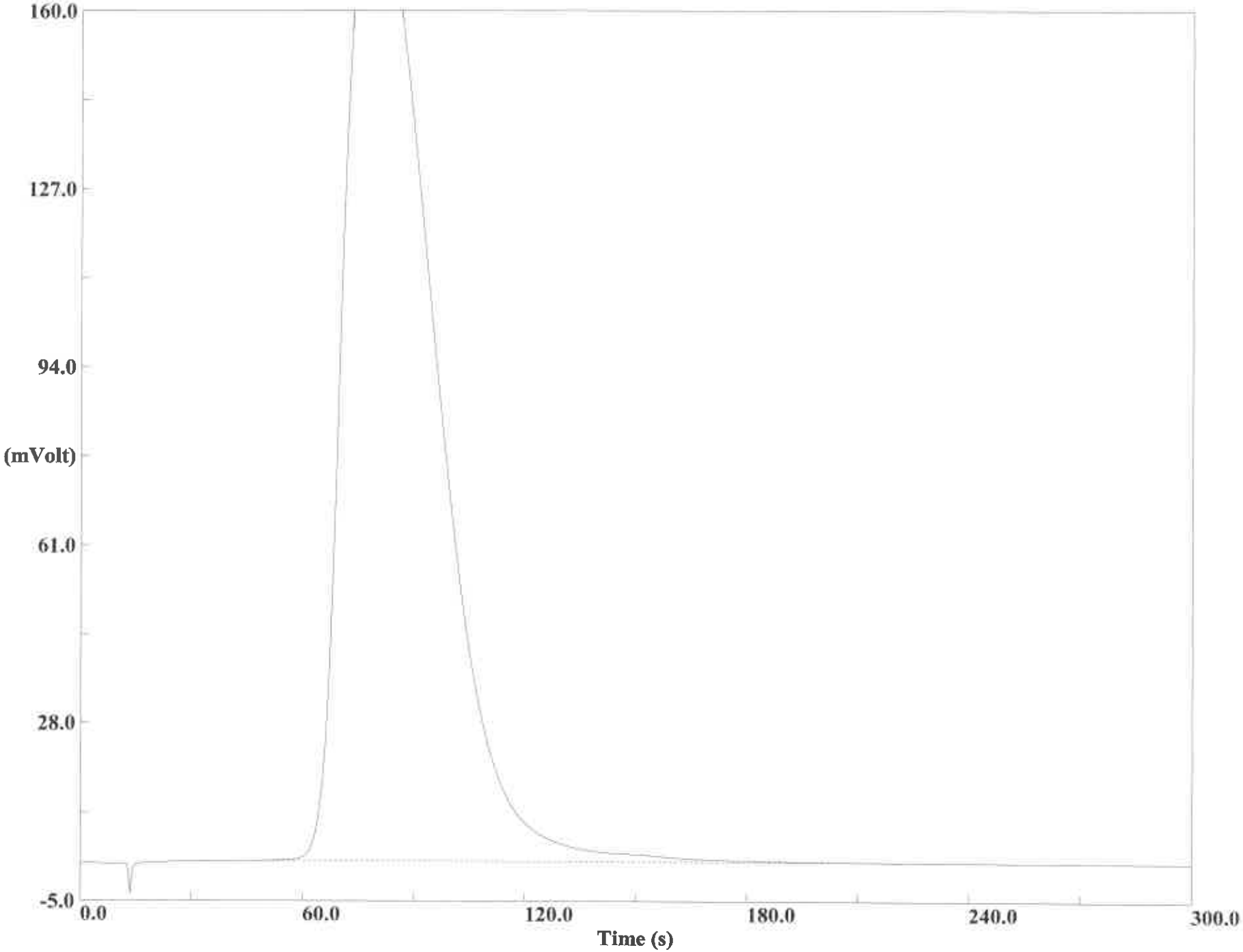
Filename C:\data\January\A100318013.DAT
Sample name :180-82502-e-5 du Analysed :10/03/2018 15:01

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



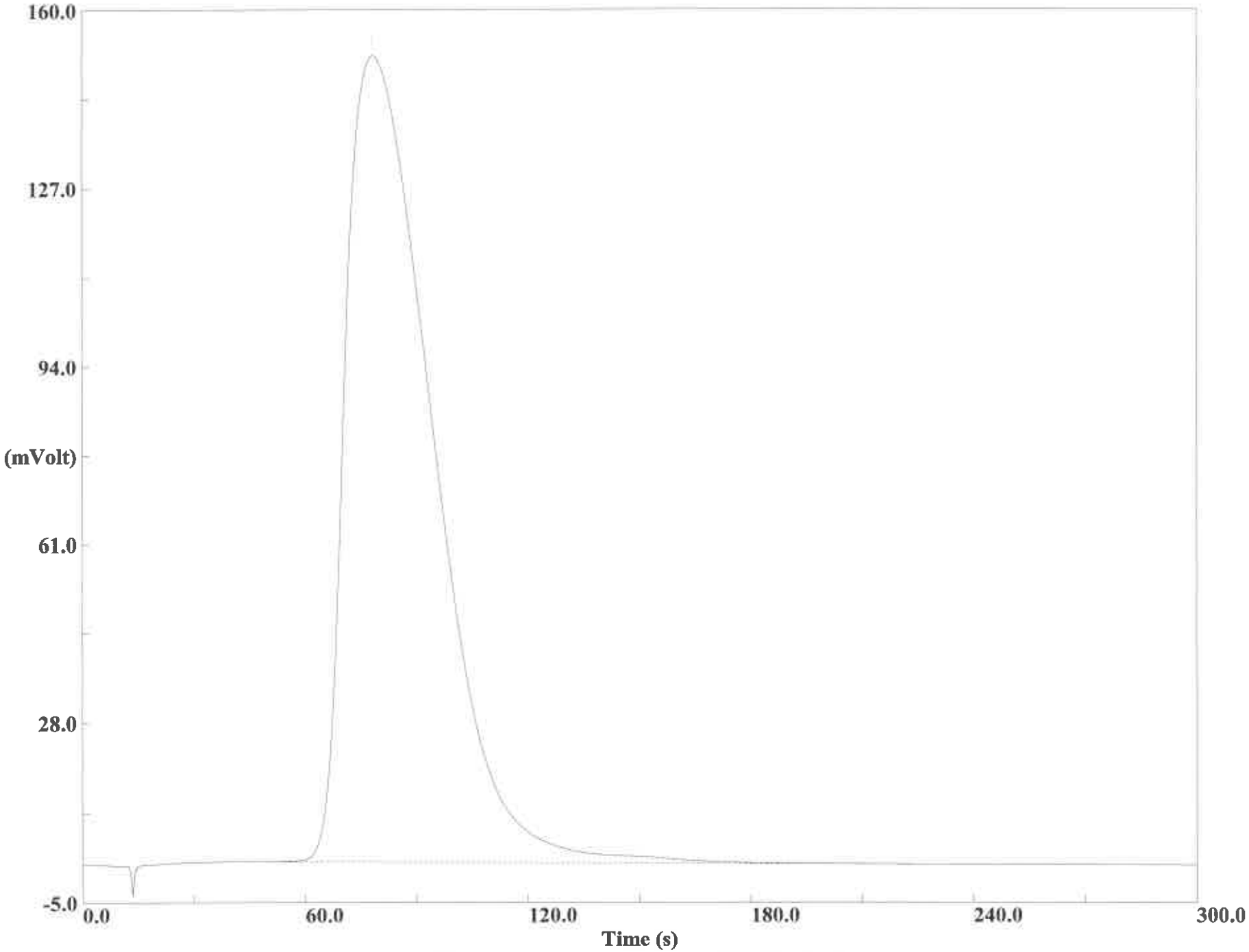
Filename C:\data\January\A100318014.DAT
Sample name :180-82502-e-5 du Analysed :10/03/2018 15:06

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



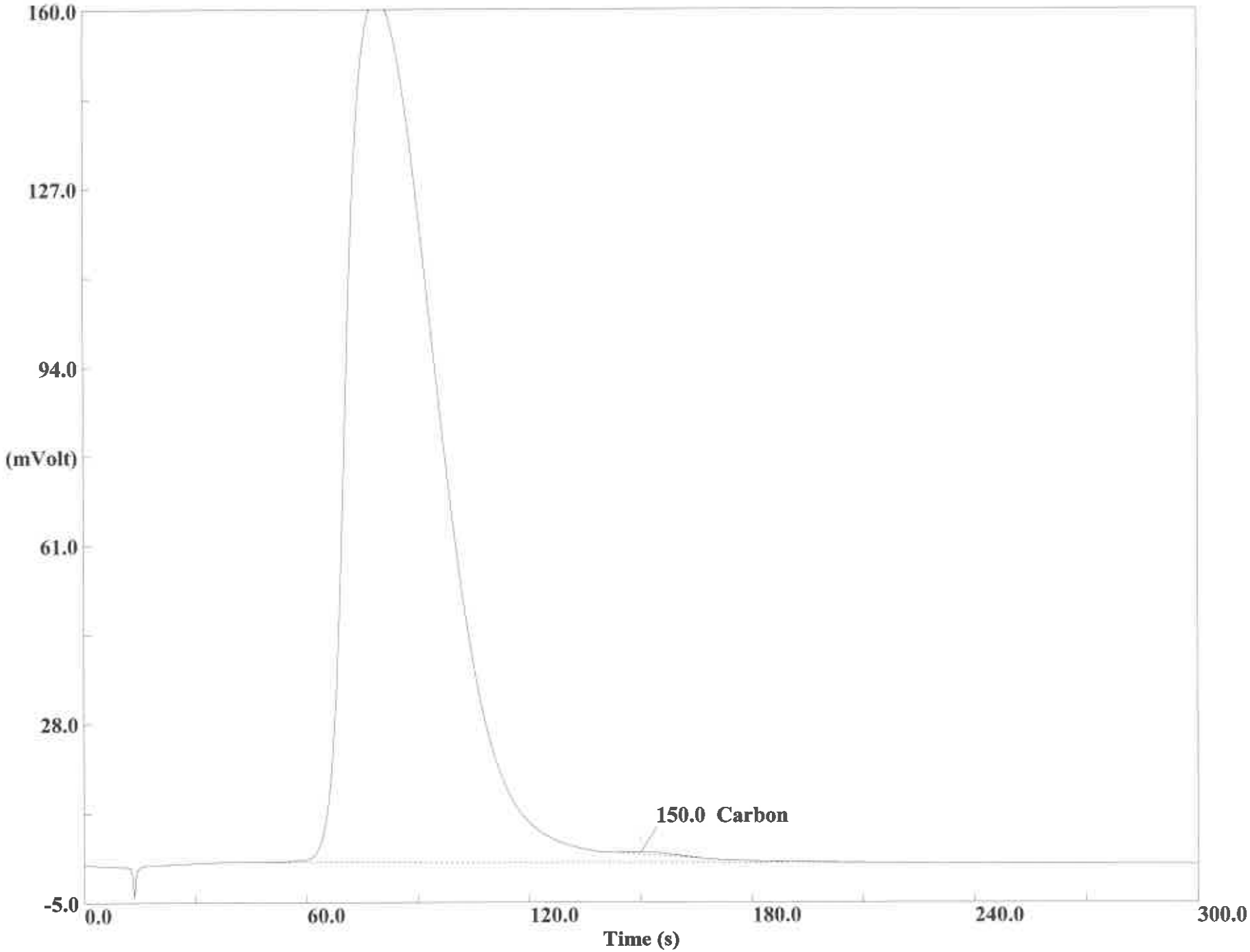
Filename C:\data\January\A100318015.DAT
Sample name :180-82379-a-1 Analysed :10/03/2018 15:11

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



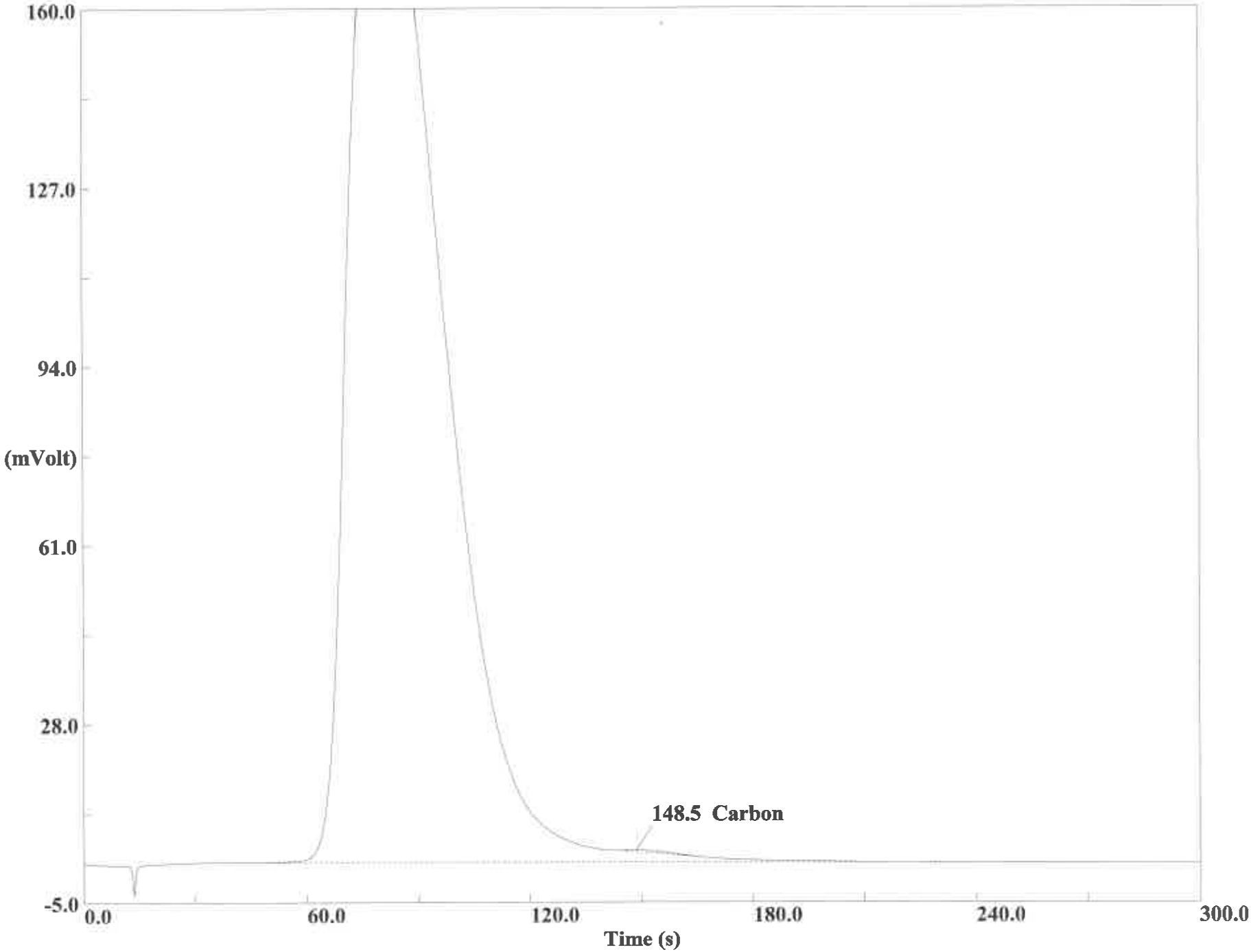
Filename C:\data\January\A100318016.DAT
Sample name :180-82379-a-1 Analysed :10/03/2018 15:16

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



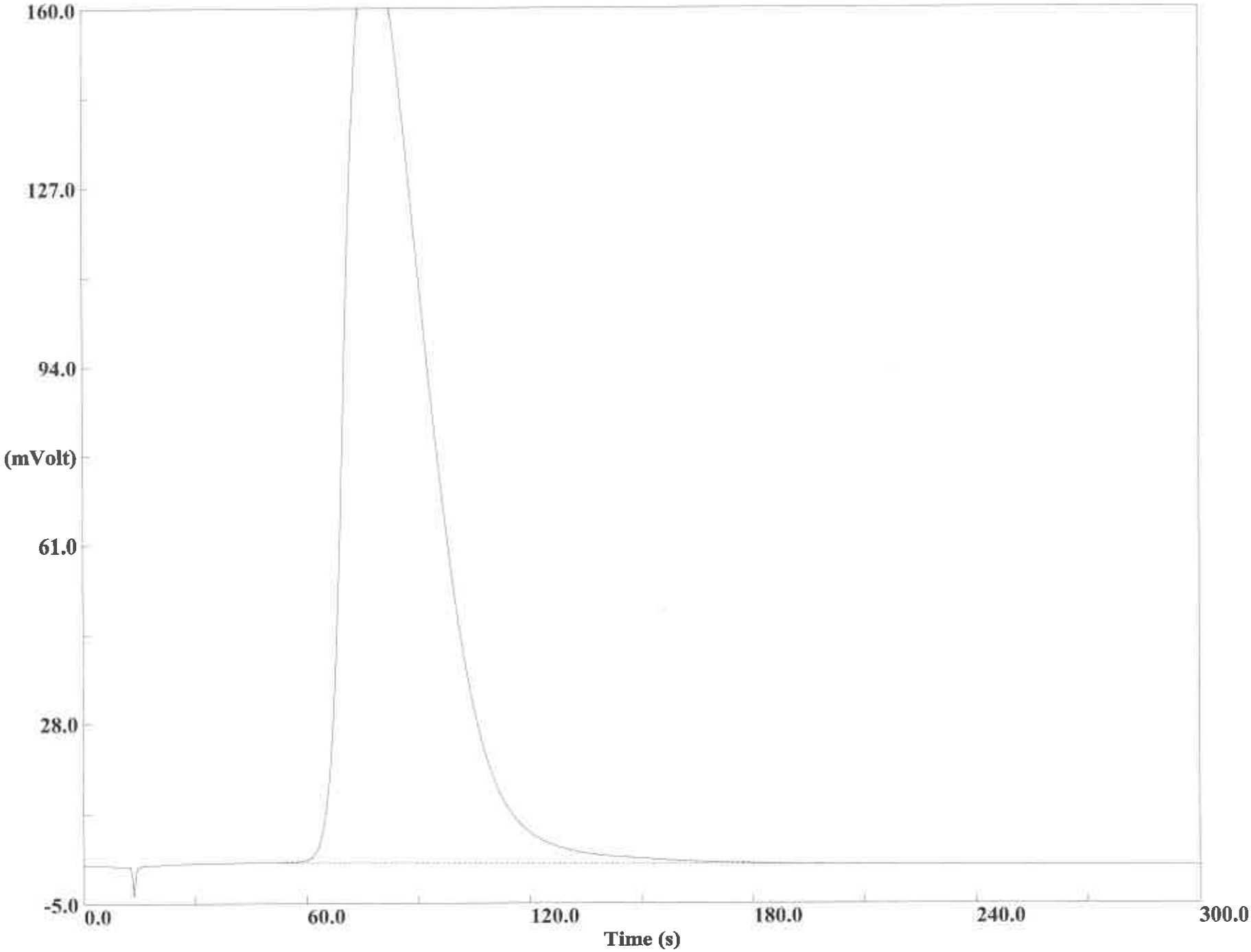
Filename C:\data\January\A100318017.DAT
Sample name :180-82379-a-2 Analysed :10/03/2018 15:21

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



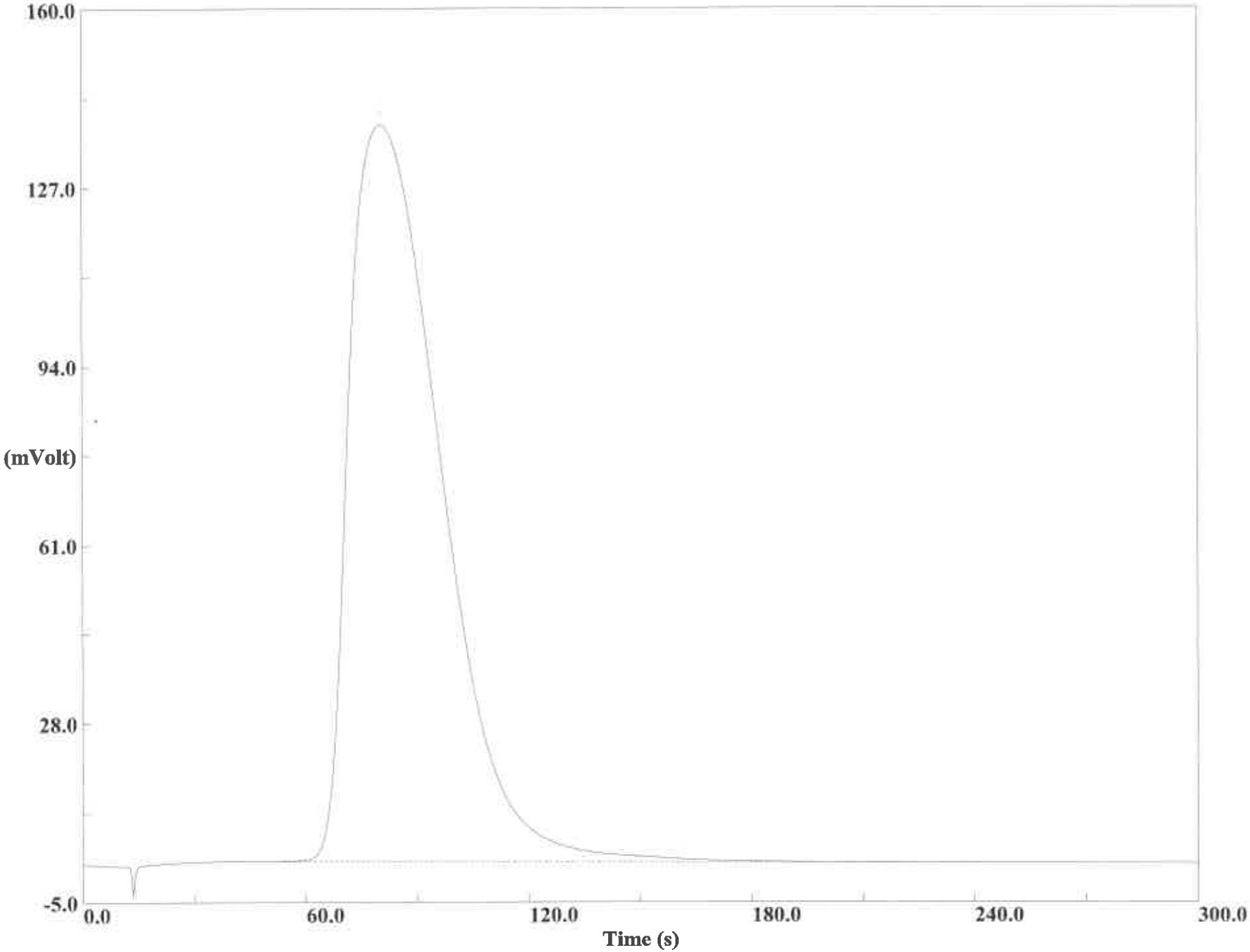
Filename C:\data\January\A100318018.DAT
Sample name :180-82379-a-2 Analysed :10/03/2018 15:26

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



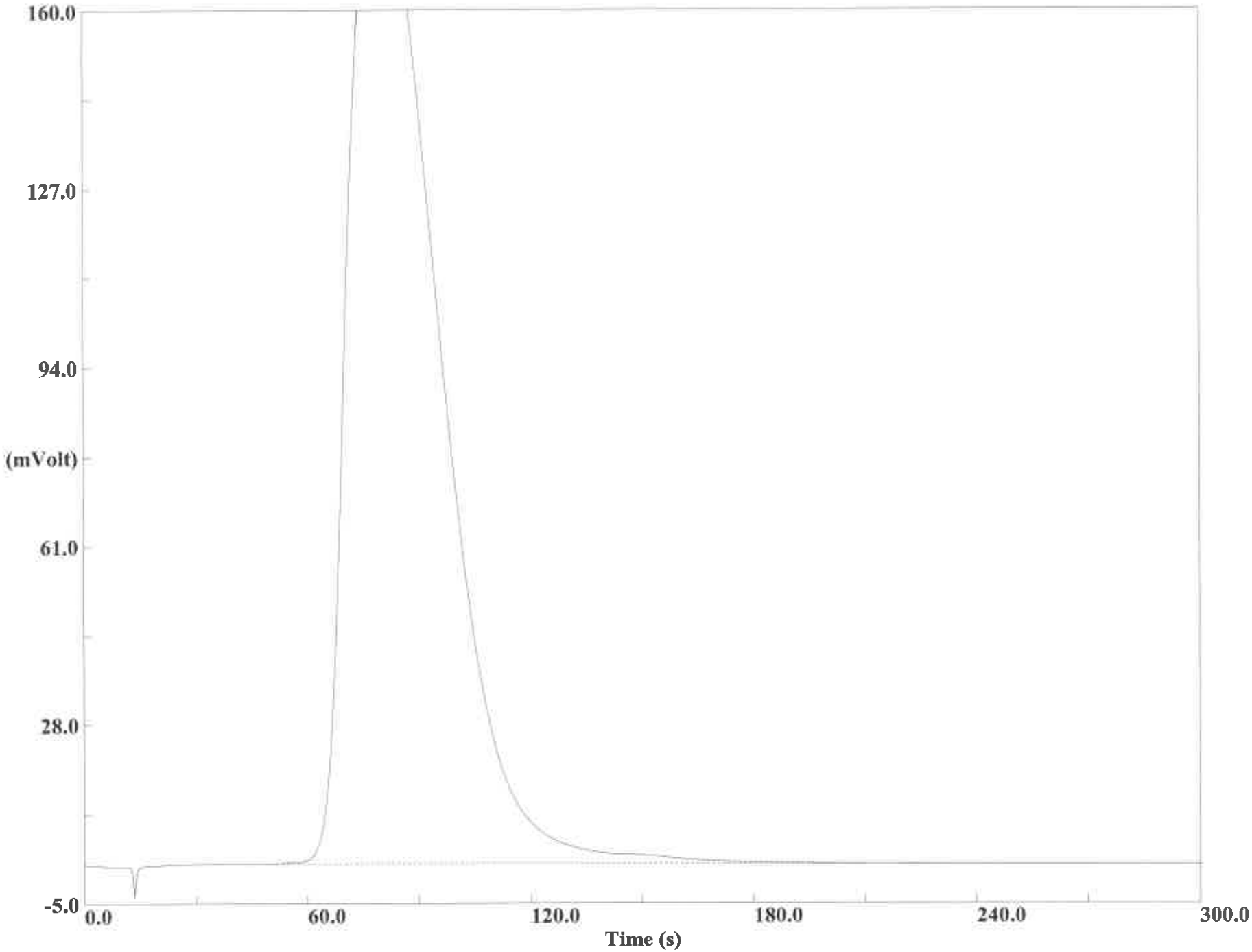
Filename C:\data\January\A100318019.DAT
Sample name :180-82379-a-3 Analysed :10/03/2018 15:31

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



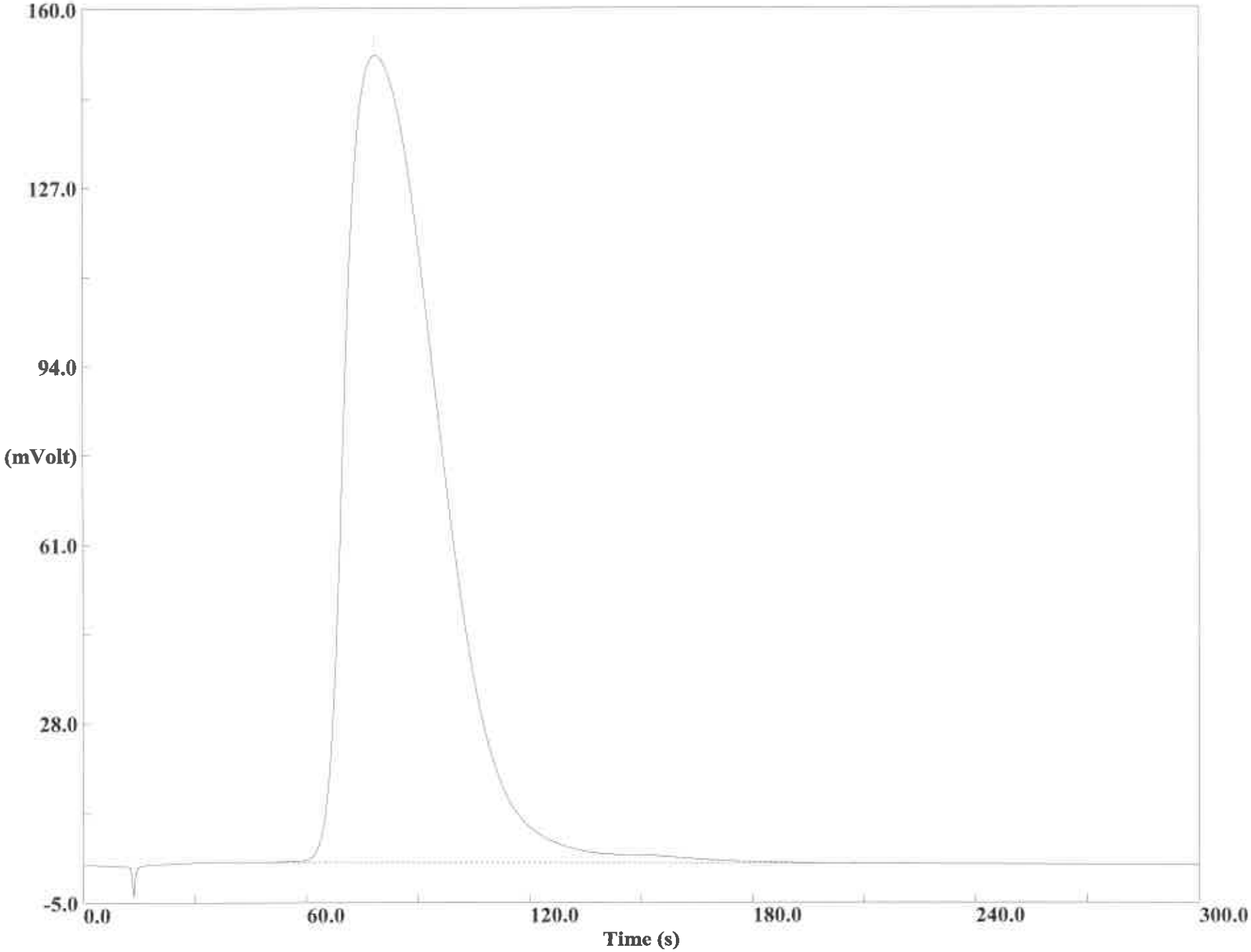
Filename C:\data\January\A100318020.DAT
Sample name :180-82379-a-3 Analysed :10/03/2018 15:36

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



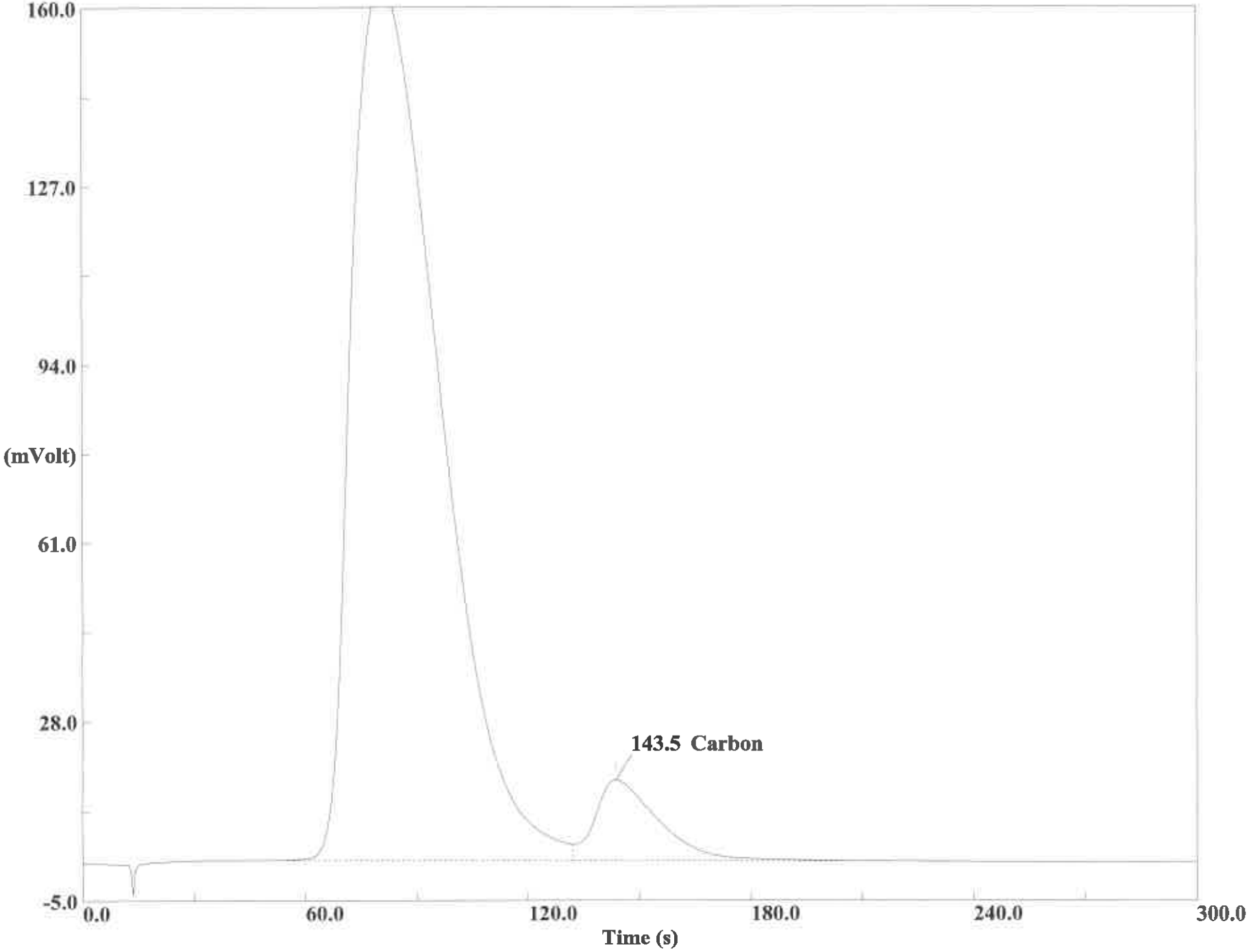
Filename C:\data\January\A100318021.DAT
Sample name :180-82379-c-1 Analysed :10/03/2018 15:42

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



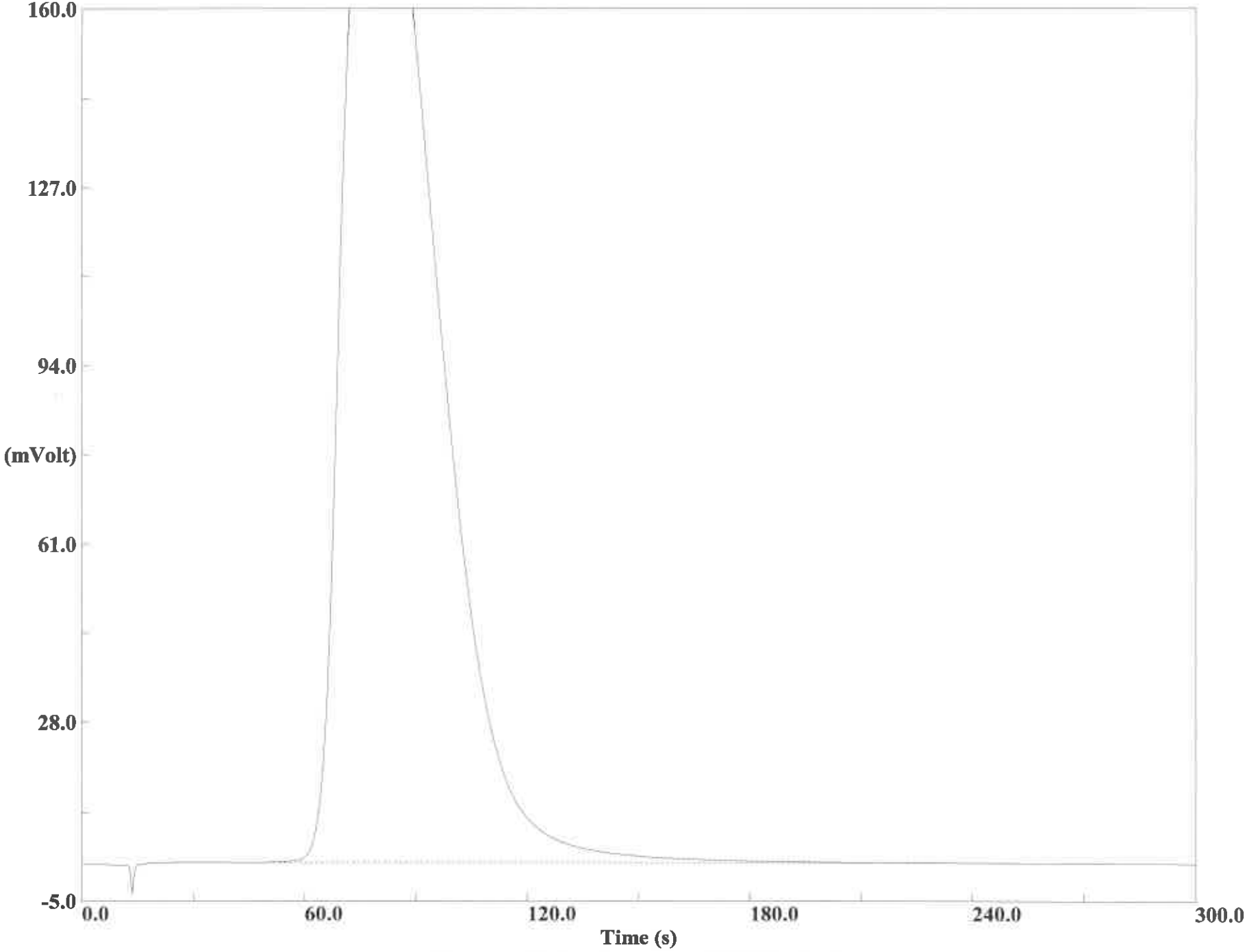
Filename C:\data\January\A100318022.DAT
Sample name :180-82379-c-1 Analysed :10/03/2018 15:47

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



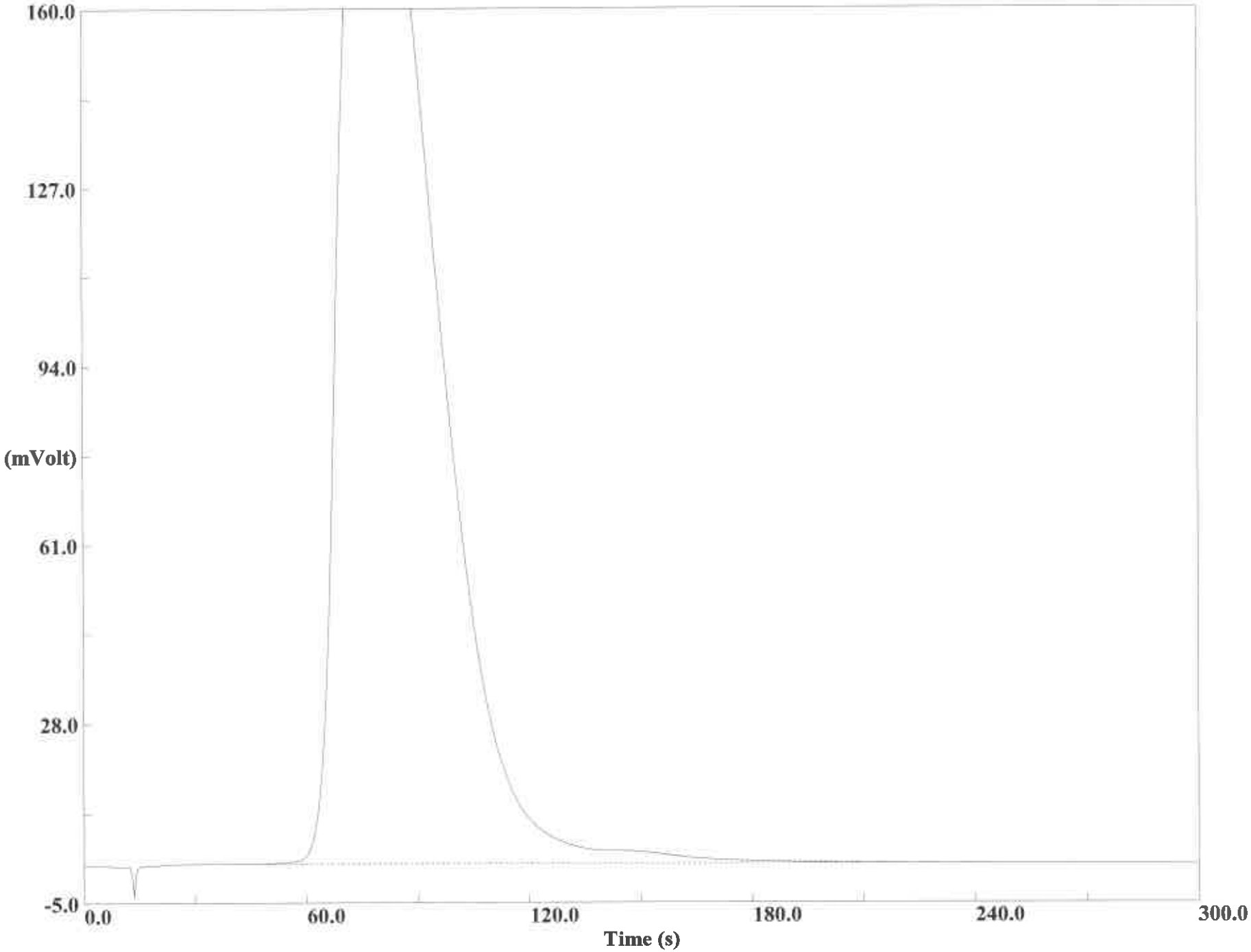
Filename C:\data\January\A100318023.DAT
Sample name :ccv Analysed :10/03/2018 15:52

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



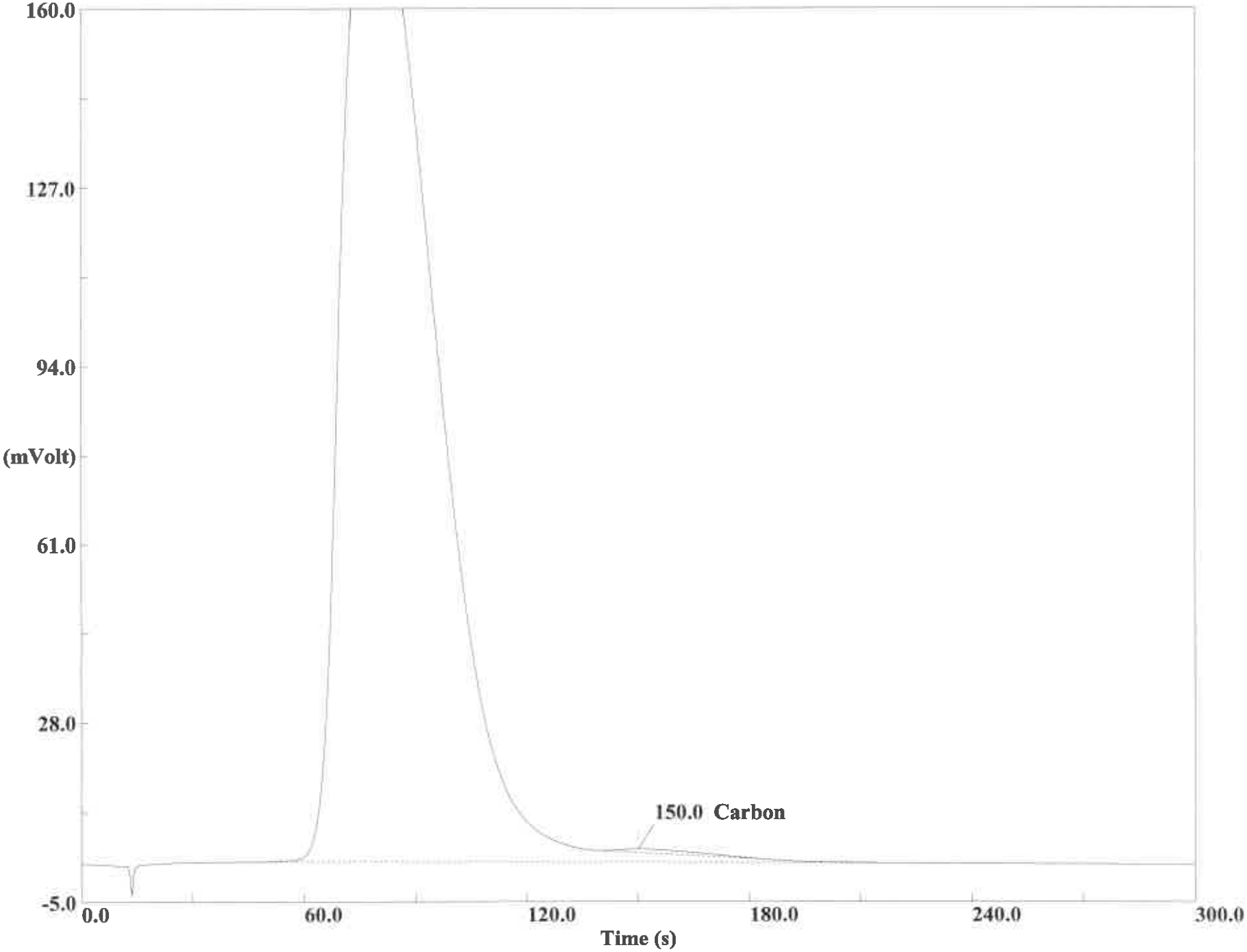
Filename C:\data\January\A100318024.DAT
Sample name :ccb Analysed :10/03/2018 15:57

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



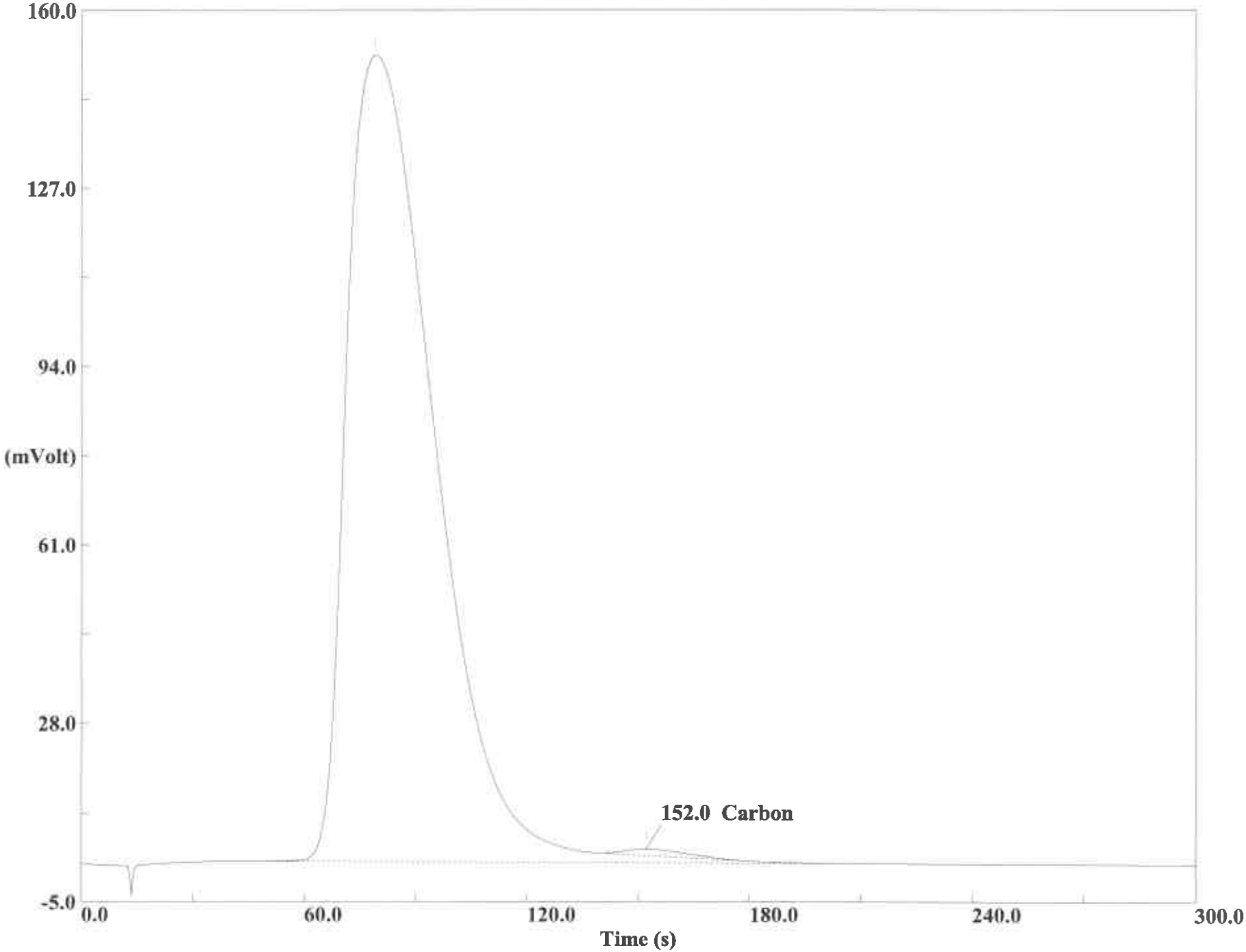
Filename C:\data\January\A100318025.DAT
Sample name :180-82446-c-2 Analysed :10/03/2018 16:02

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



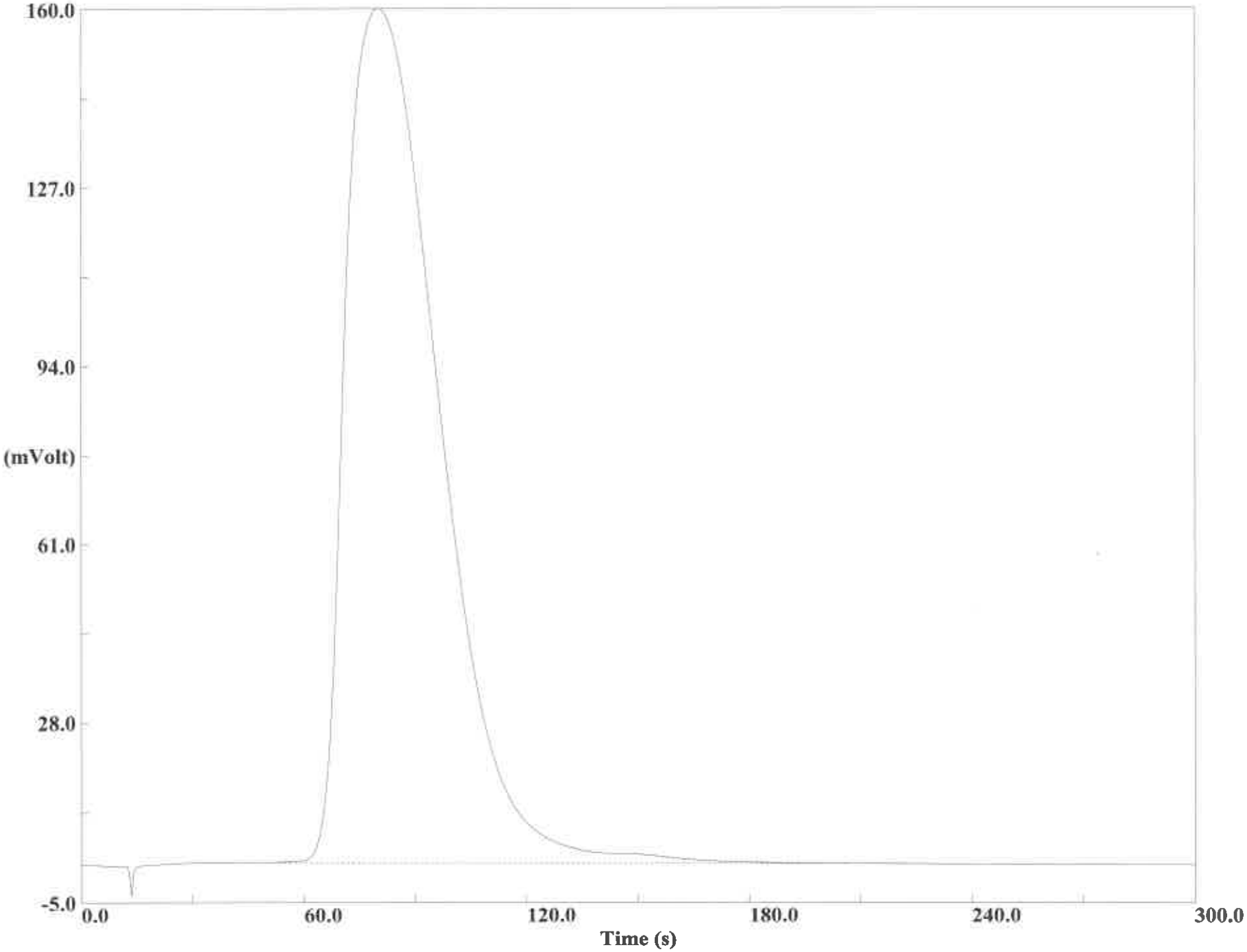
Filename C:\data\January\A100318026.DAT
Sample name :180-82446-c-2 Analysed :10/03/2018 16:07

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



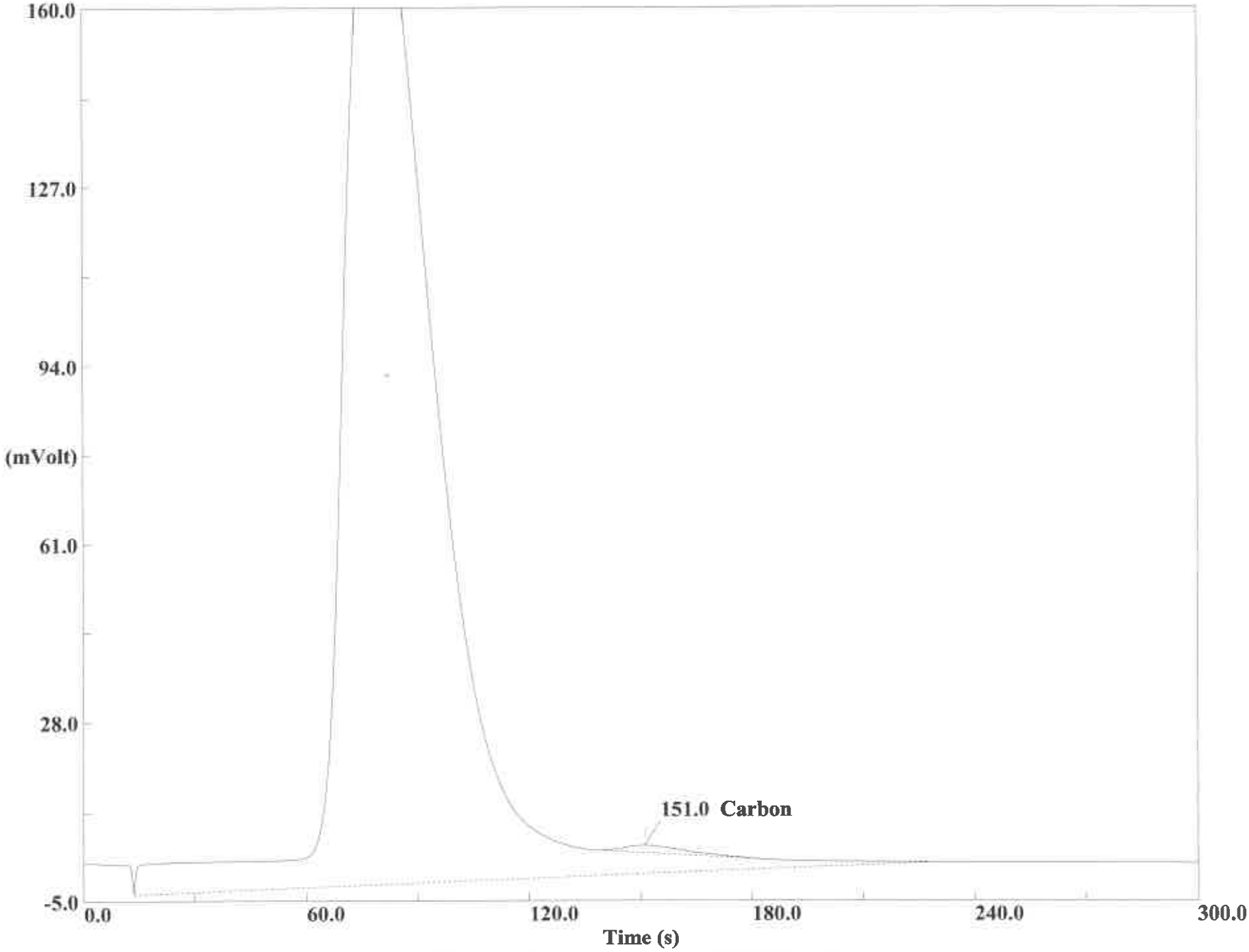
Filename C:\data\January\A100318027.DAT
Sample name :180-82446-b-3 Analysed :10/03/2018 16:13

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



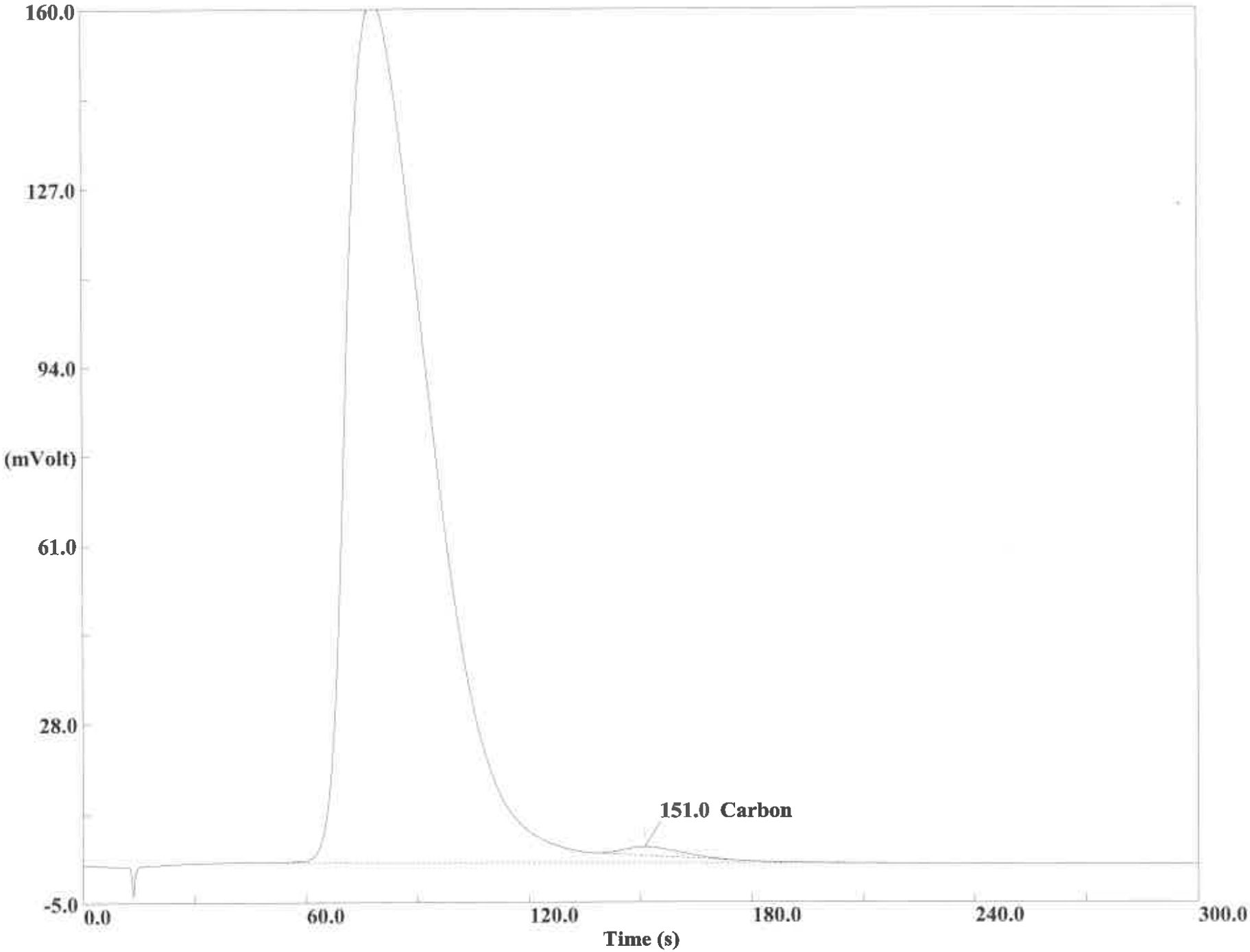
Filename C:\data\January\A100318028.DAT
Sample name :180-82446-b-3 Analysed :10/03/2018 16:18

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



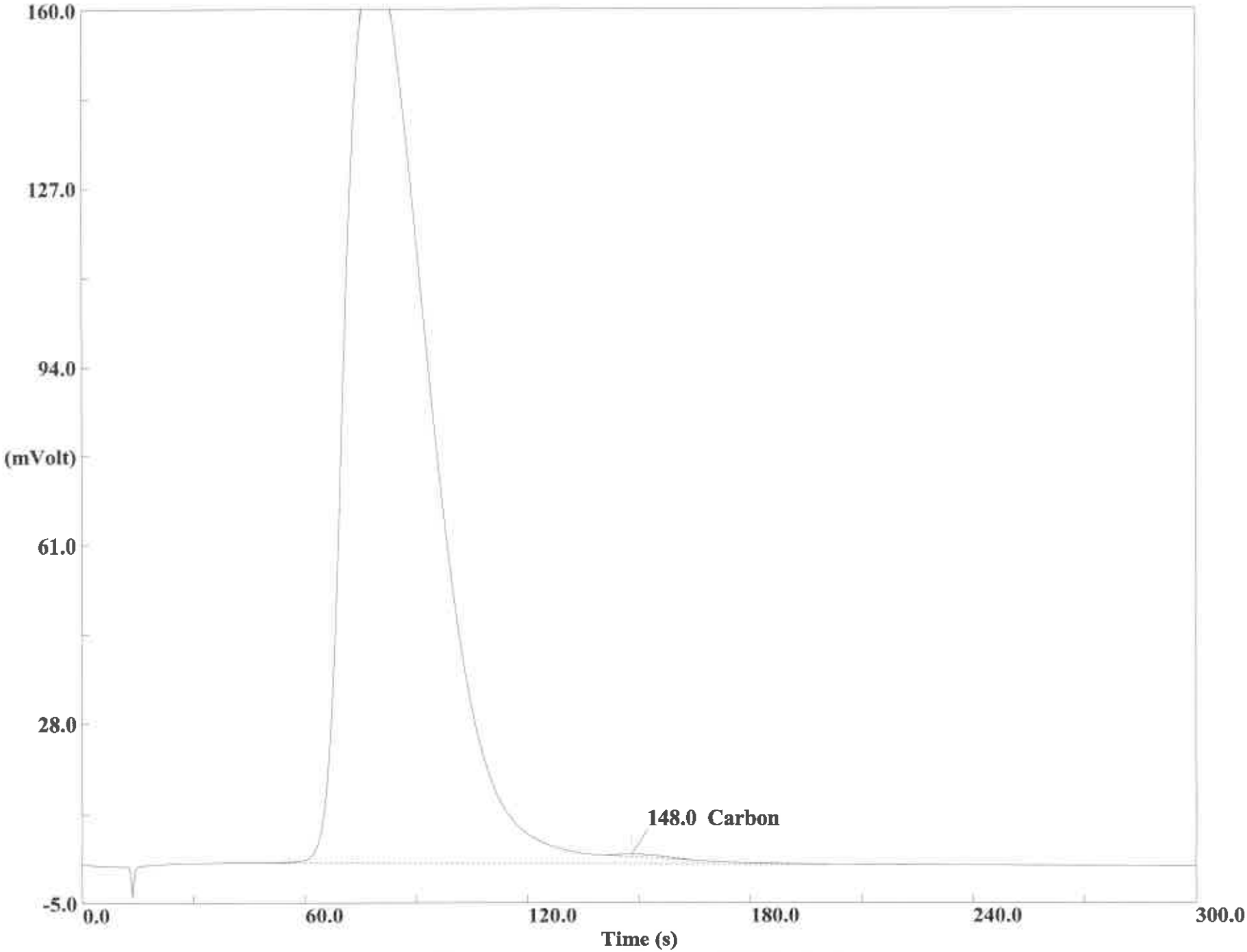
Filename C:\data\January\A100318029.DAT
Sample name :180-82446-c-4 Analysed :10/03/2018 16:23

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



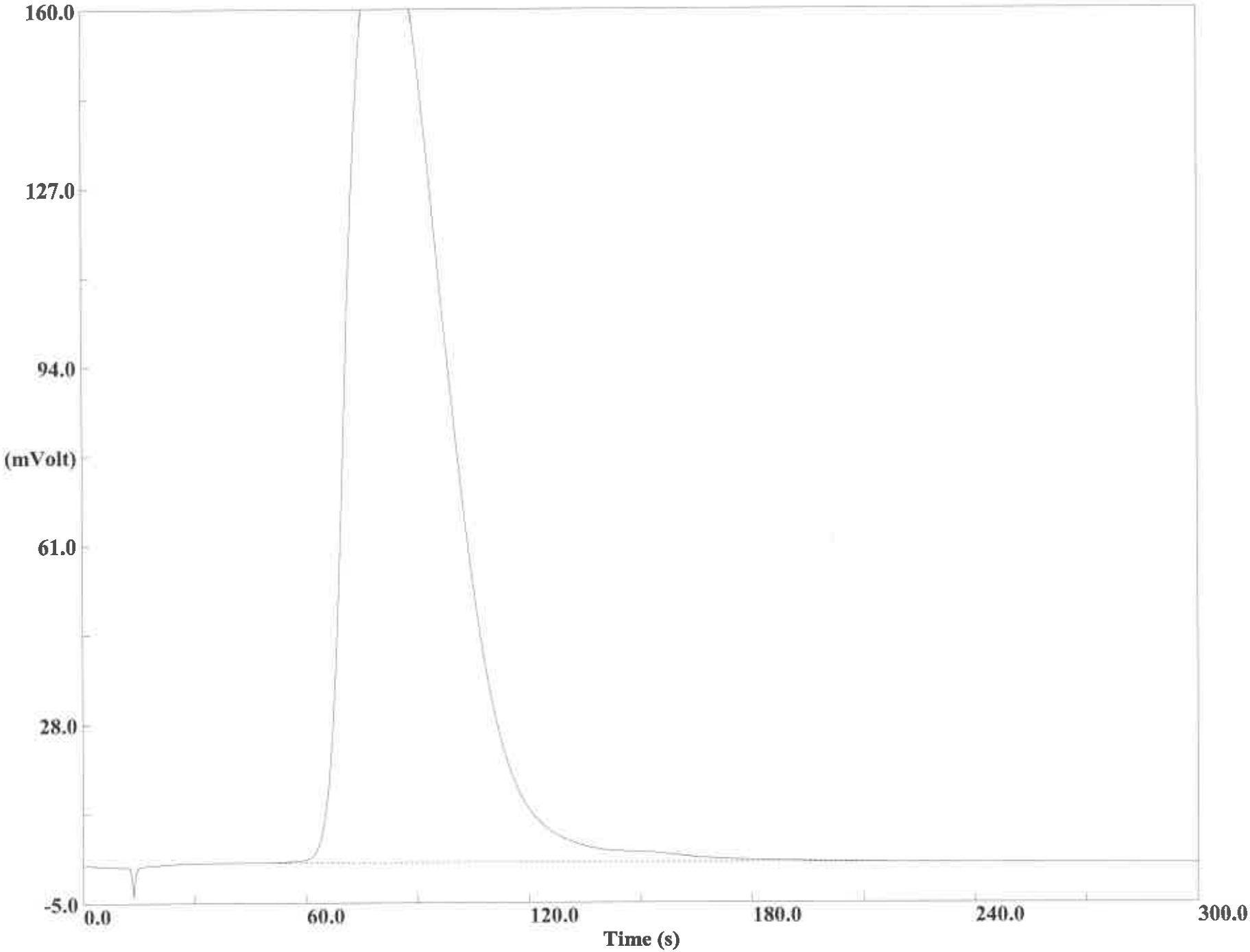
Filename C:\data\January\A100318030.DAT
Sample name :180-82446-c-4 Analysed :10/03/2018 16:28

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



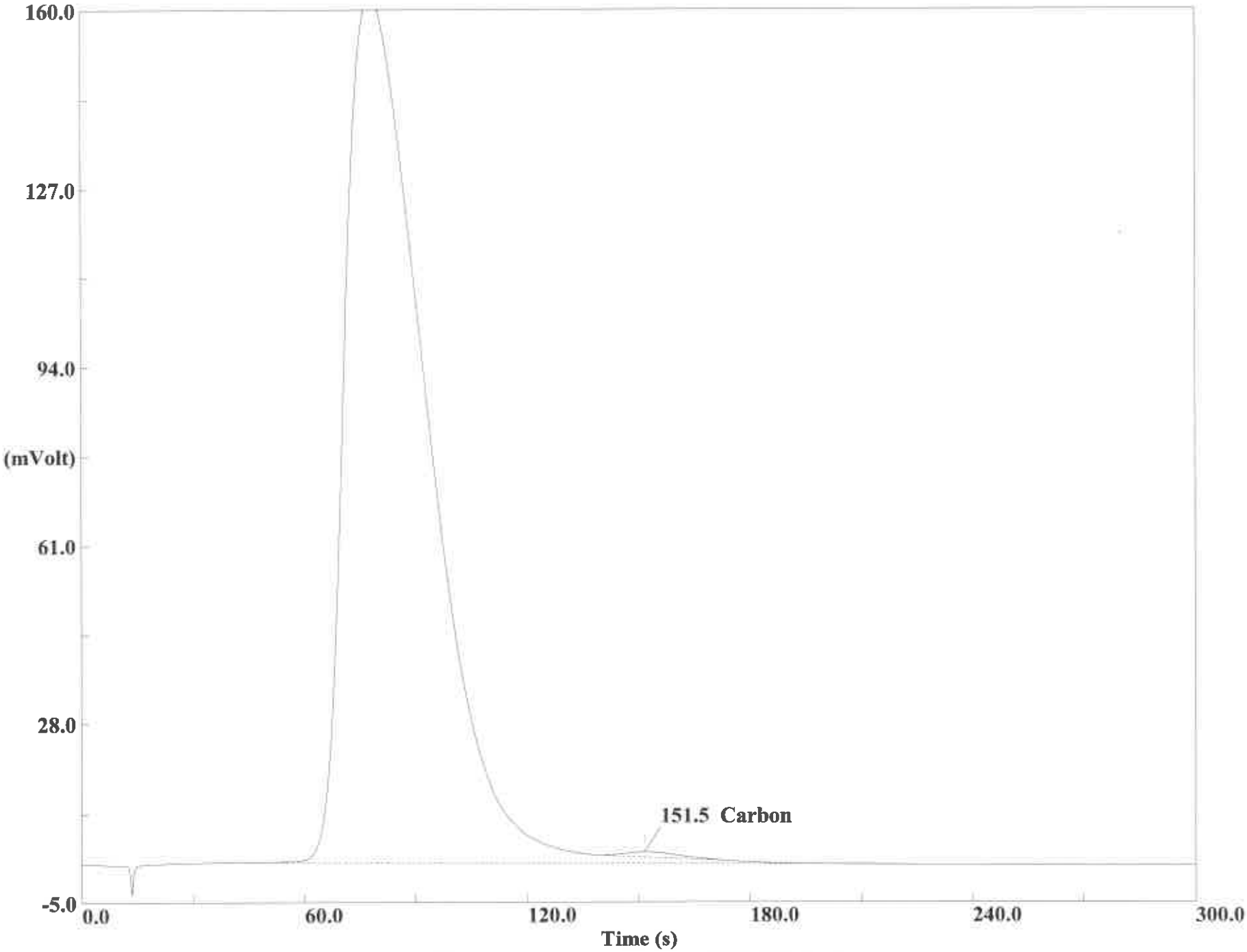
Filename C:\data\January\A100318031.DAT
Sample name :180-82446-b-5 Analysed :10/03/2018 16:33

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



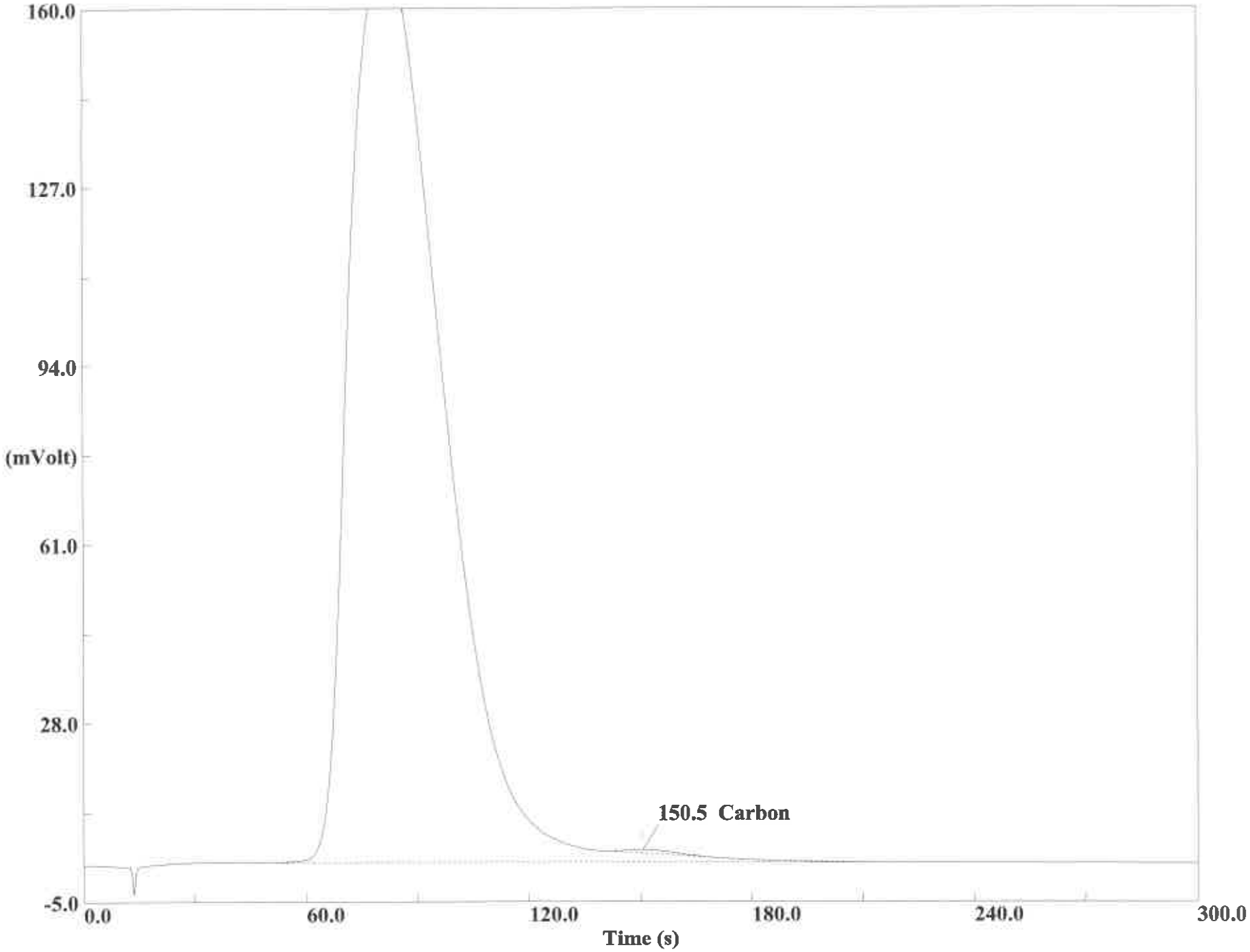
Filename C:\data\January\A100318032.DAT
Sample name :180-82446-b-5 Analysed :10/03/2018 16:38

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



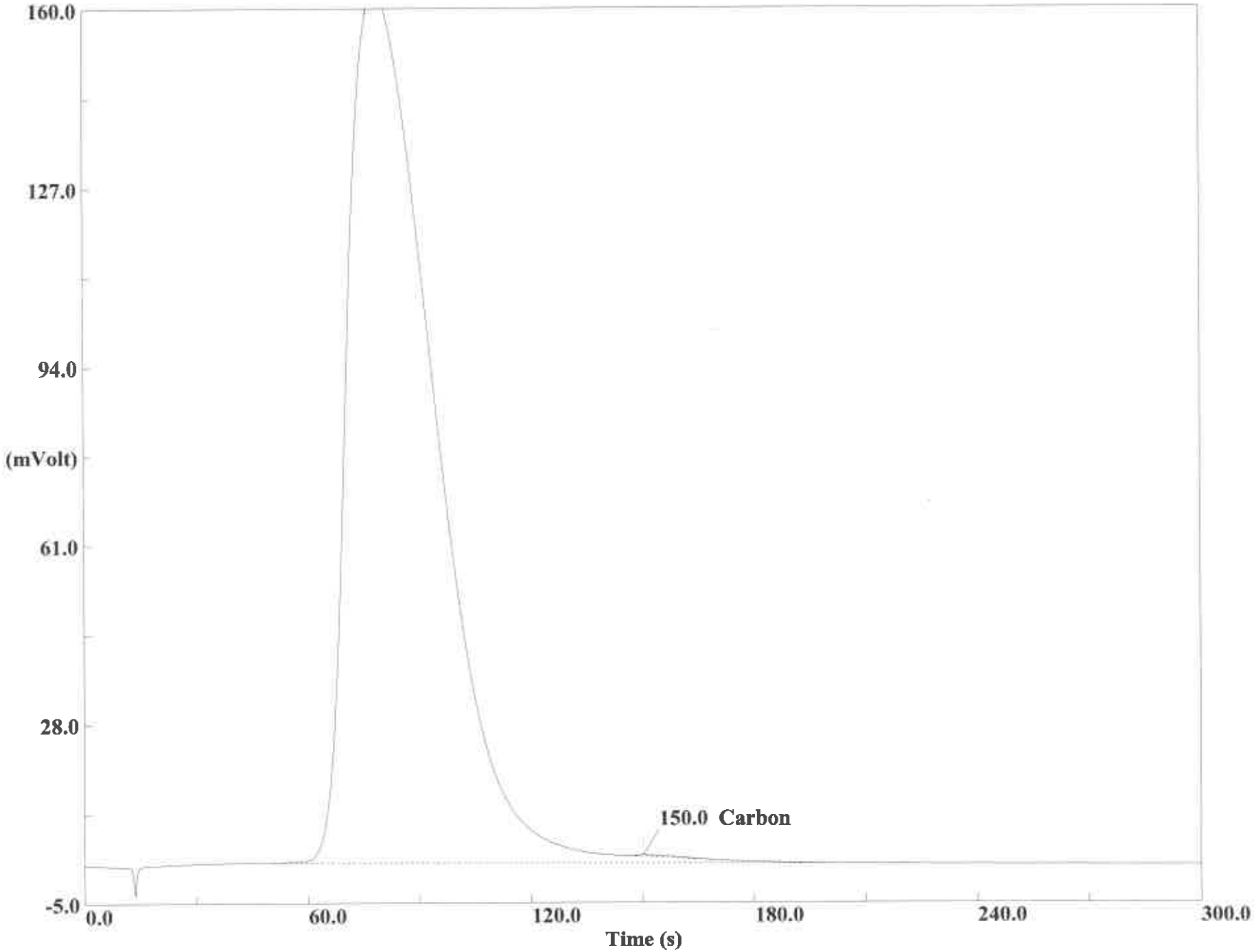
Filename C:\data\January\A100318033.DAT
Sample name :180-82446-c-6 Analysed :10/03/2018 16:43

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



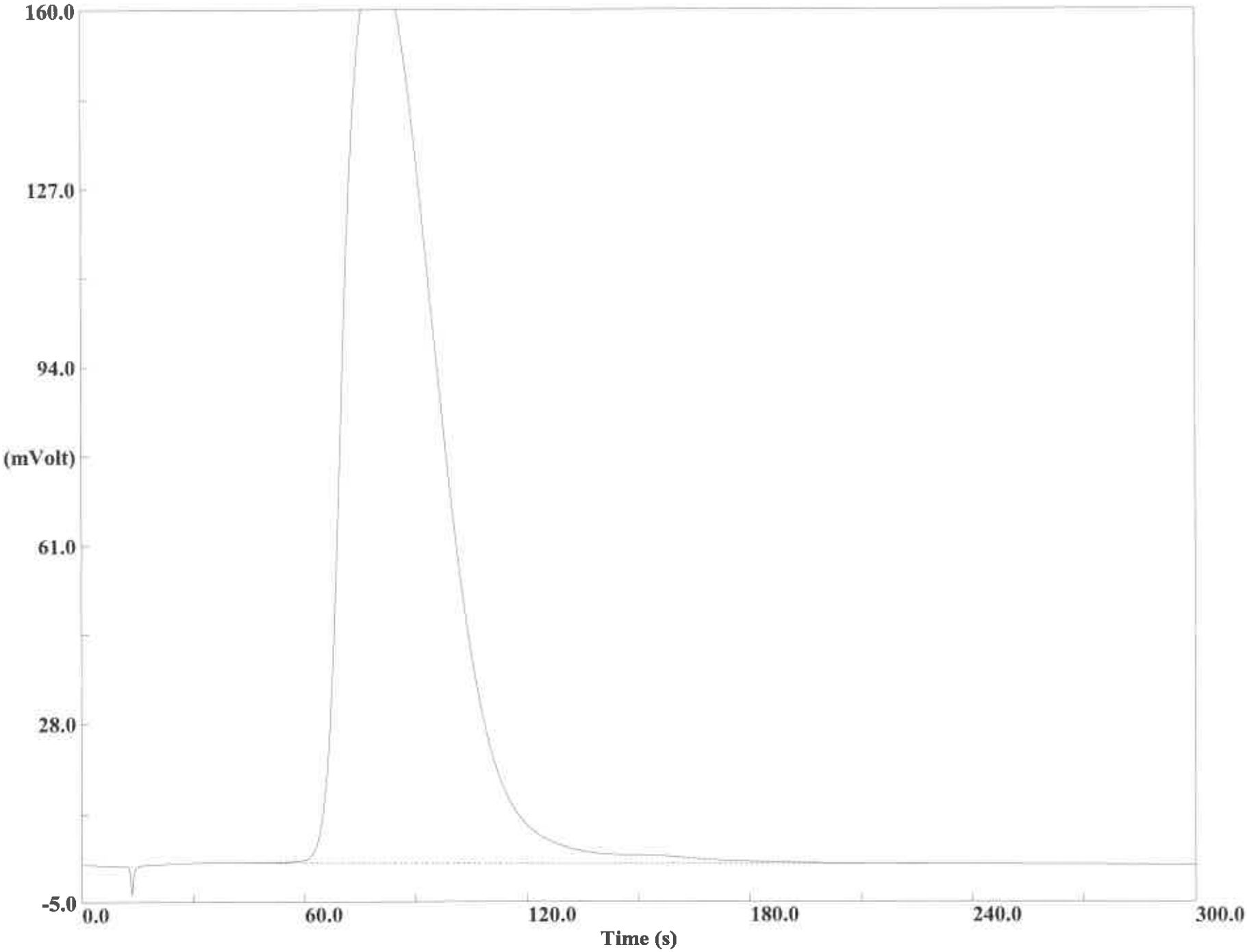
Filename C:\data\January\A100318034.DAT
Sample name :180-82446-c-6 Analysed :10/03/2018 16:48

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



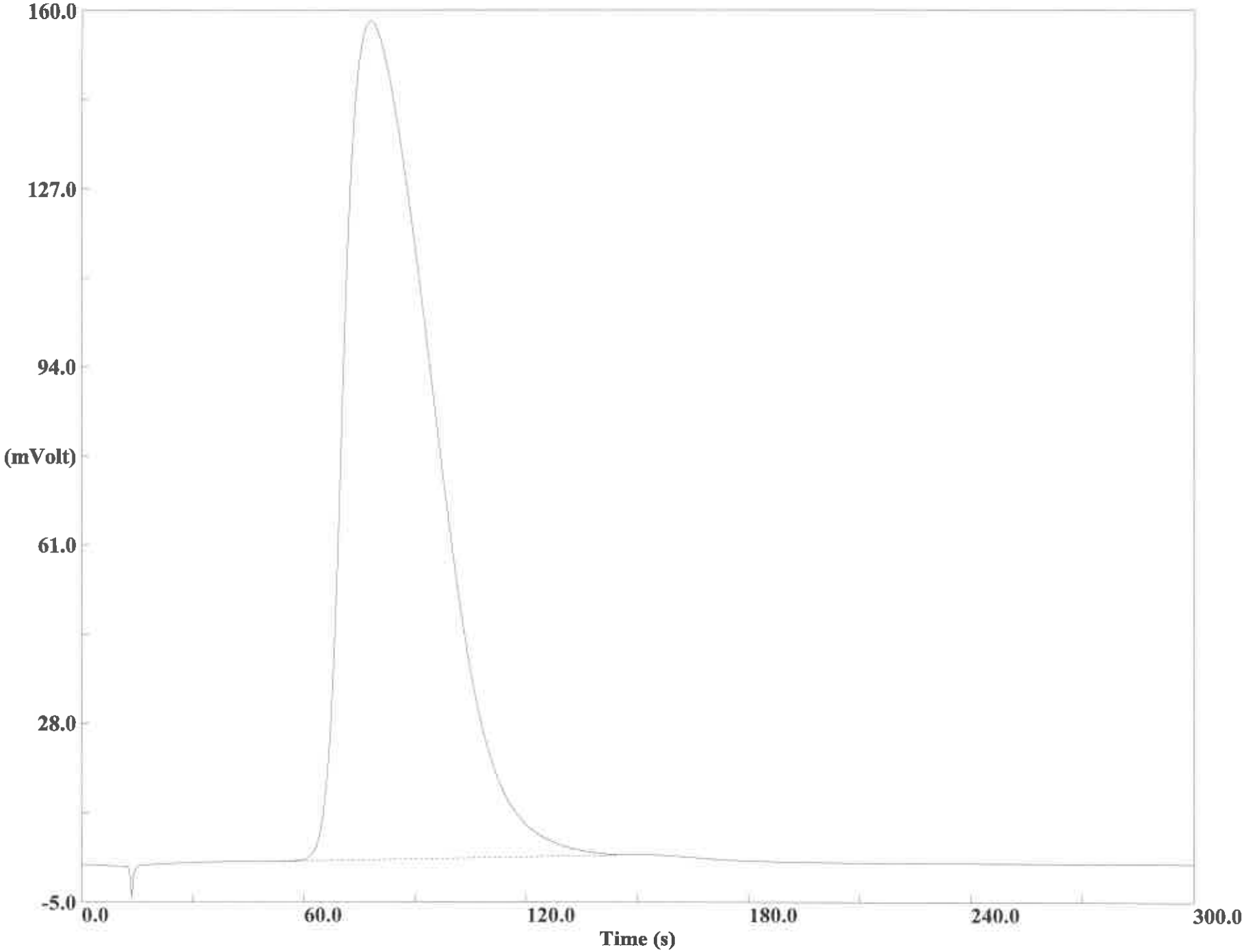
Filename C:\data\January\A100318035.DAT
Sample name :180-82502-b-1 Analysed :10/03/2018 16:53

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



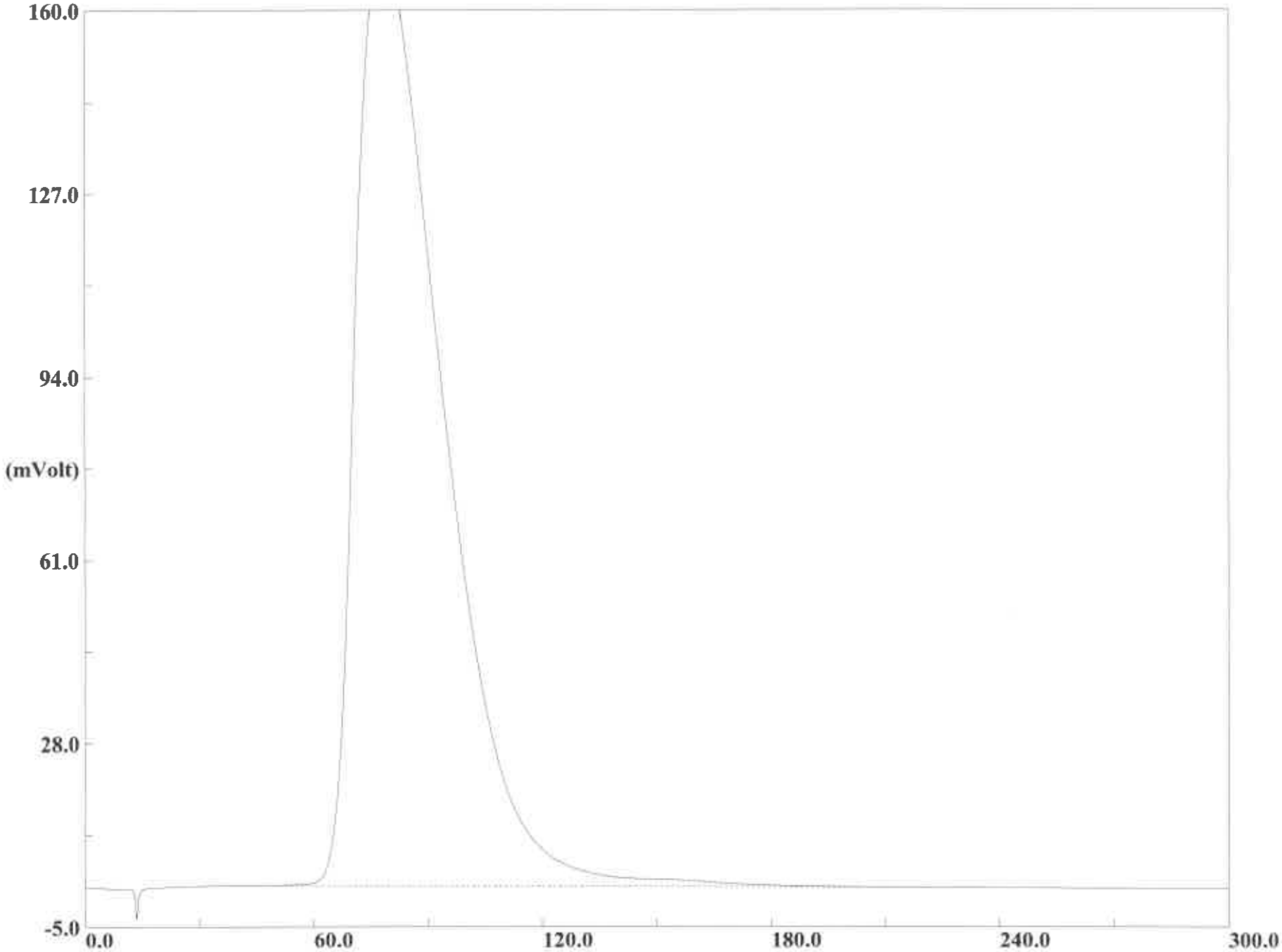
Filename C:\data\January\A100318036.DAT
Sample name :180-82502-b-1 Analysed :10/03/2018 16:58

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



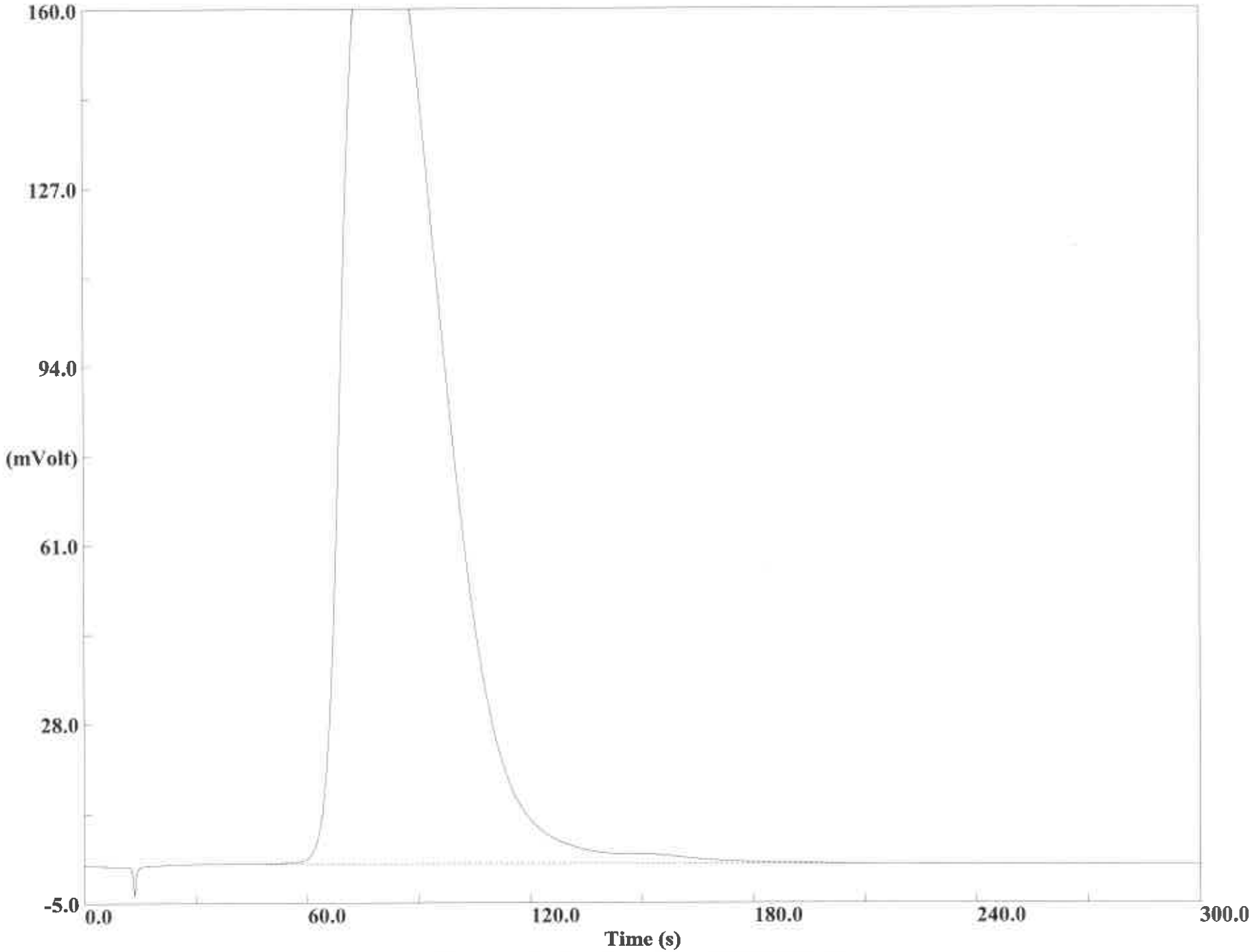
Filename C:\data\January\A100318037.DAT
Sample name :180-82502-c-2 Analysed :10/03/2018 17:03

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



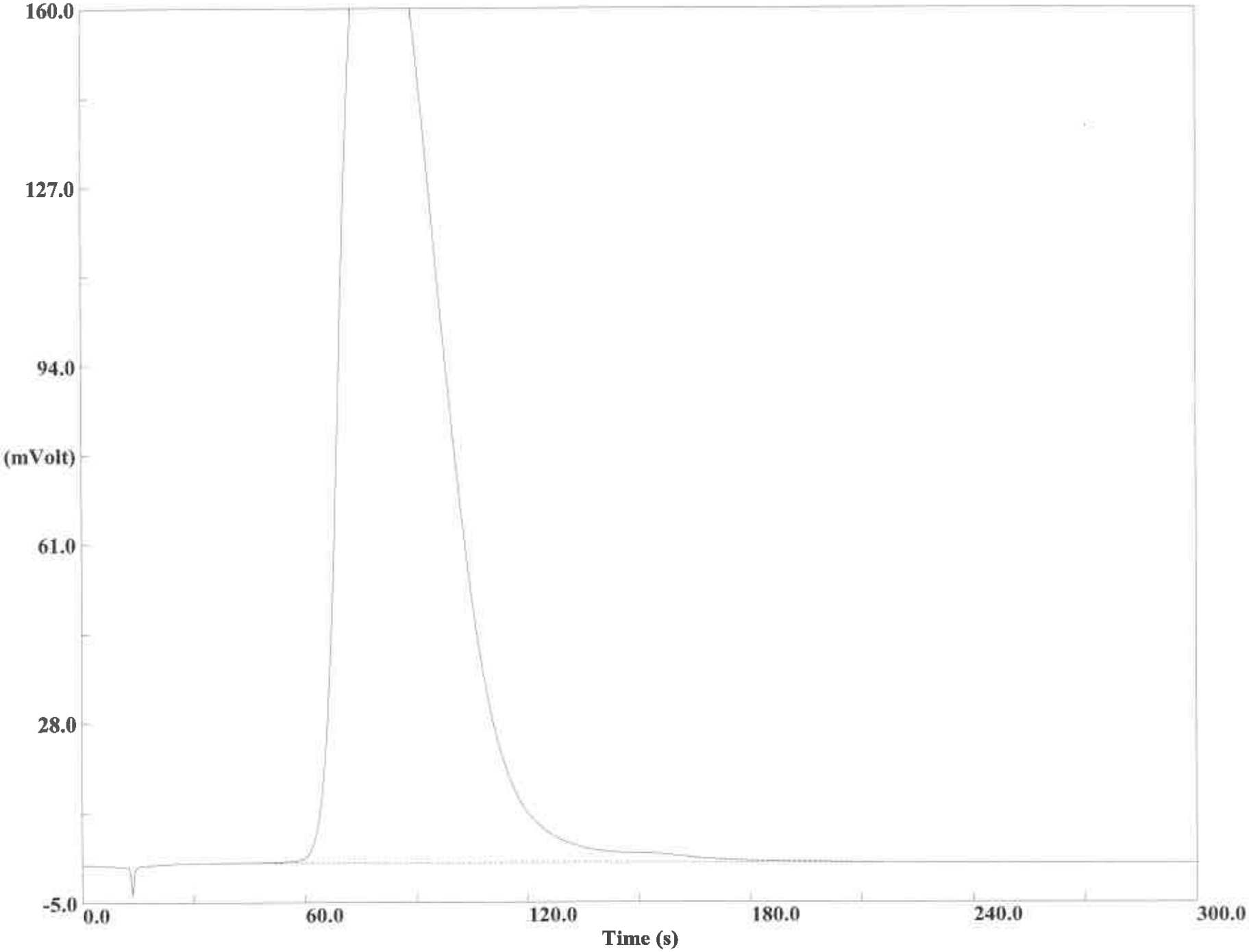
Filename C:\data\January\A100318038.DAT
Sample name :180-82502-c-2 Analysed :10/03/2018 17:08

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



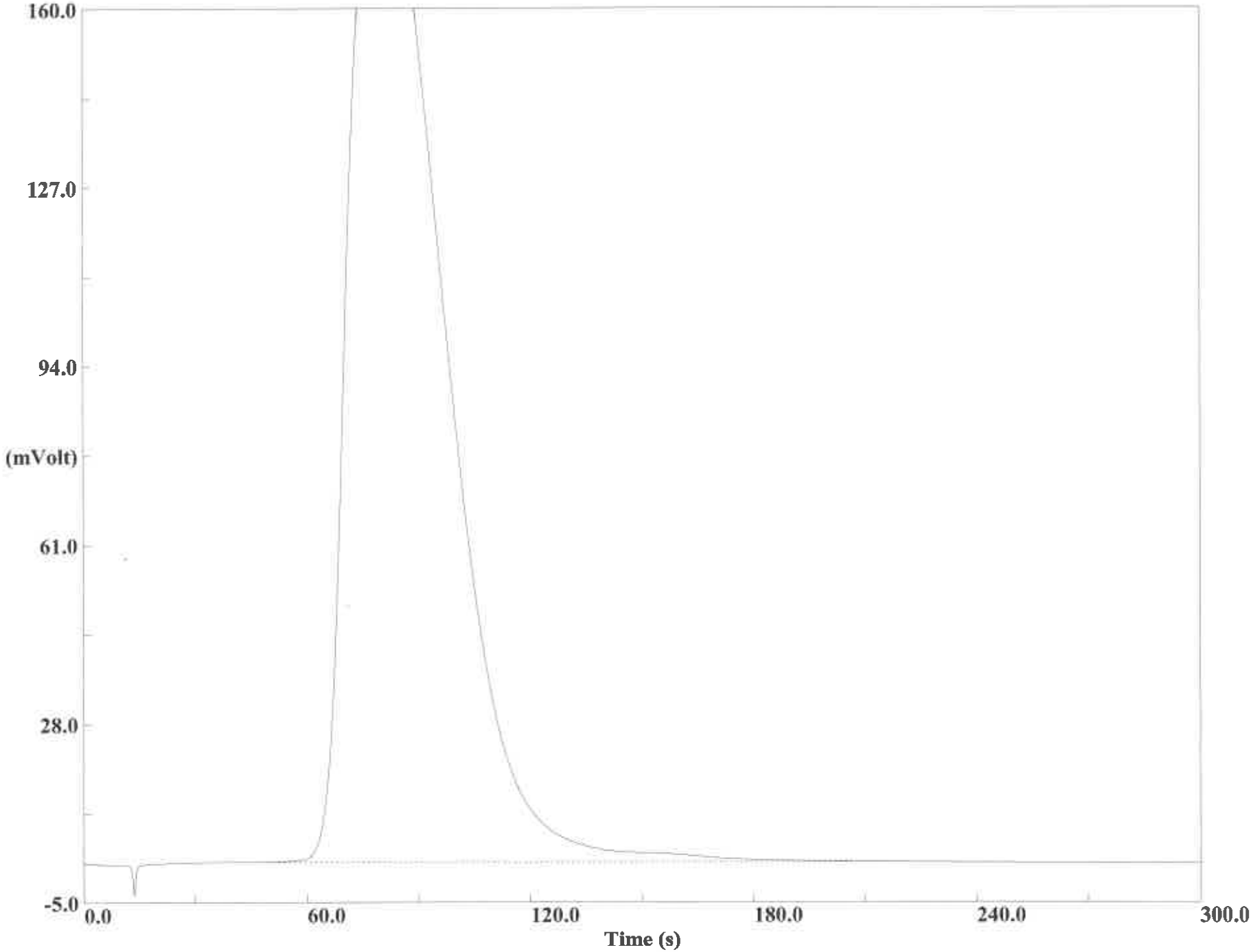
Filename C:\data\January\A100318039.DAT
Sample name :180-82502-c-3 Analysed :10/03/2018 17:13

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



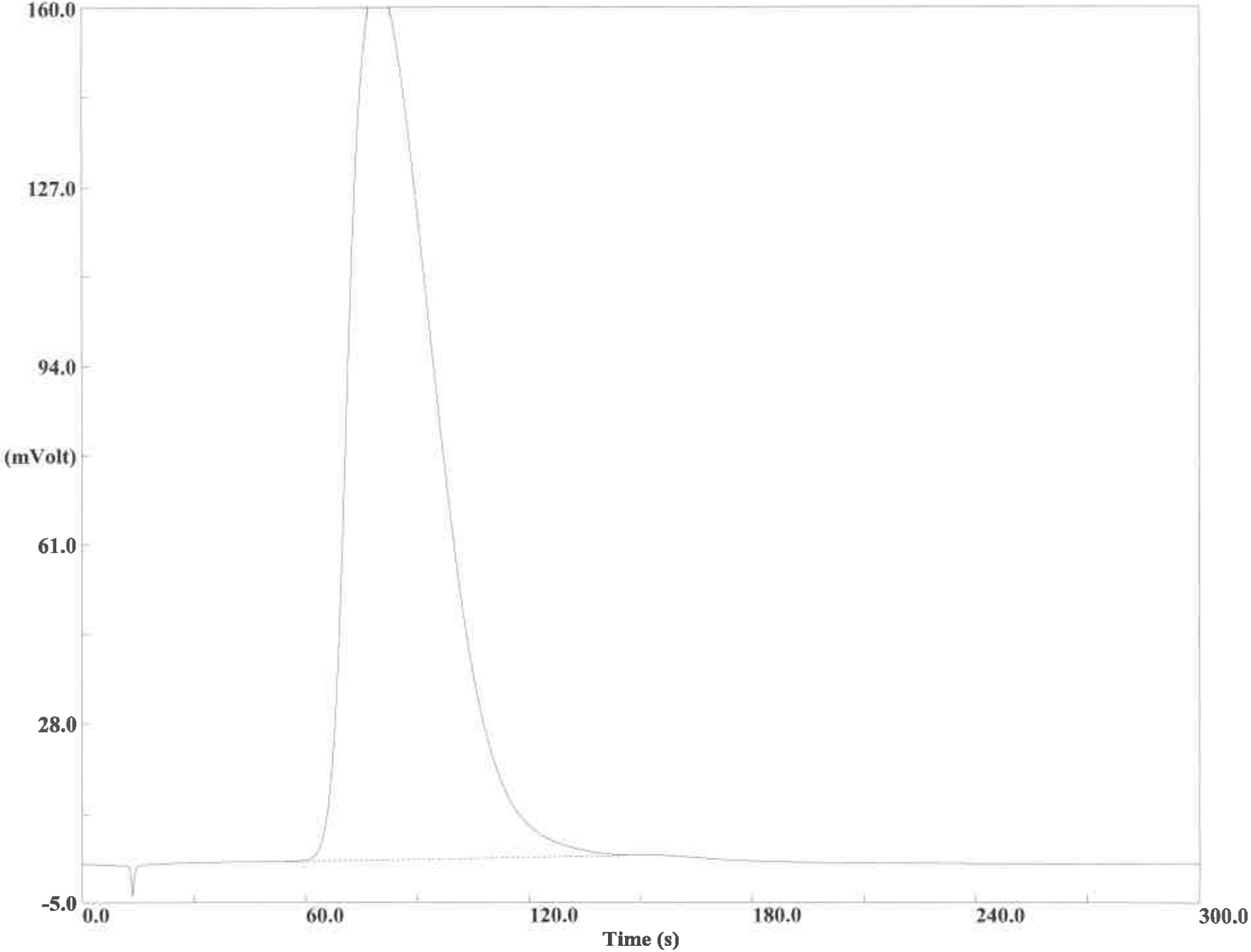
Filename C:\data\January\A100318040.DAT
Sample name :180-82502-c-3 Analysed :10/03/2018 17:18

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



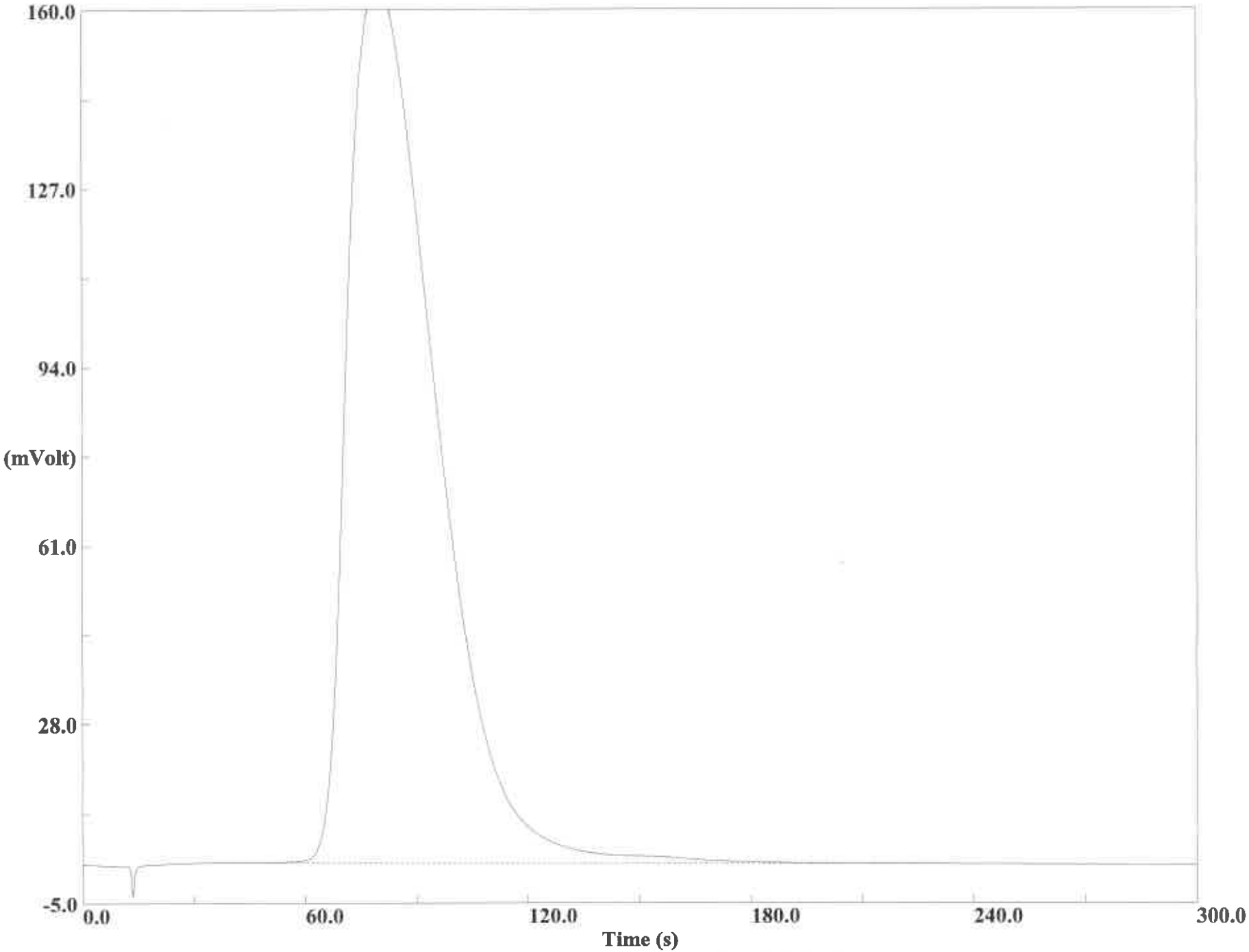
Filename C:\data\January\A100318041.DAT
Sample name :180-82502-c-4 Analysed :10/03/2018 17:24

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



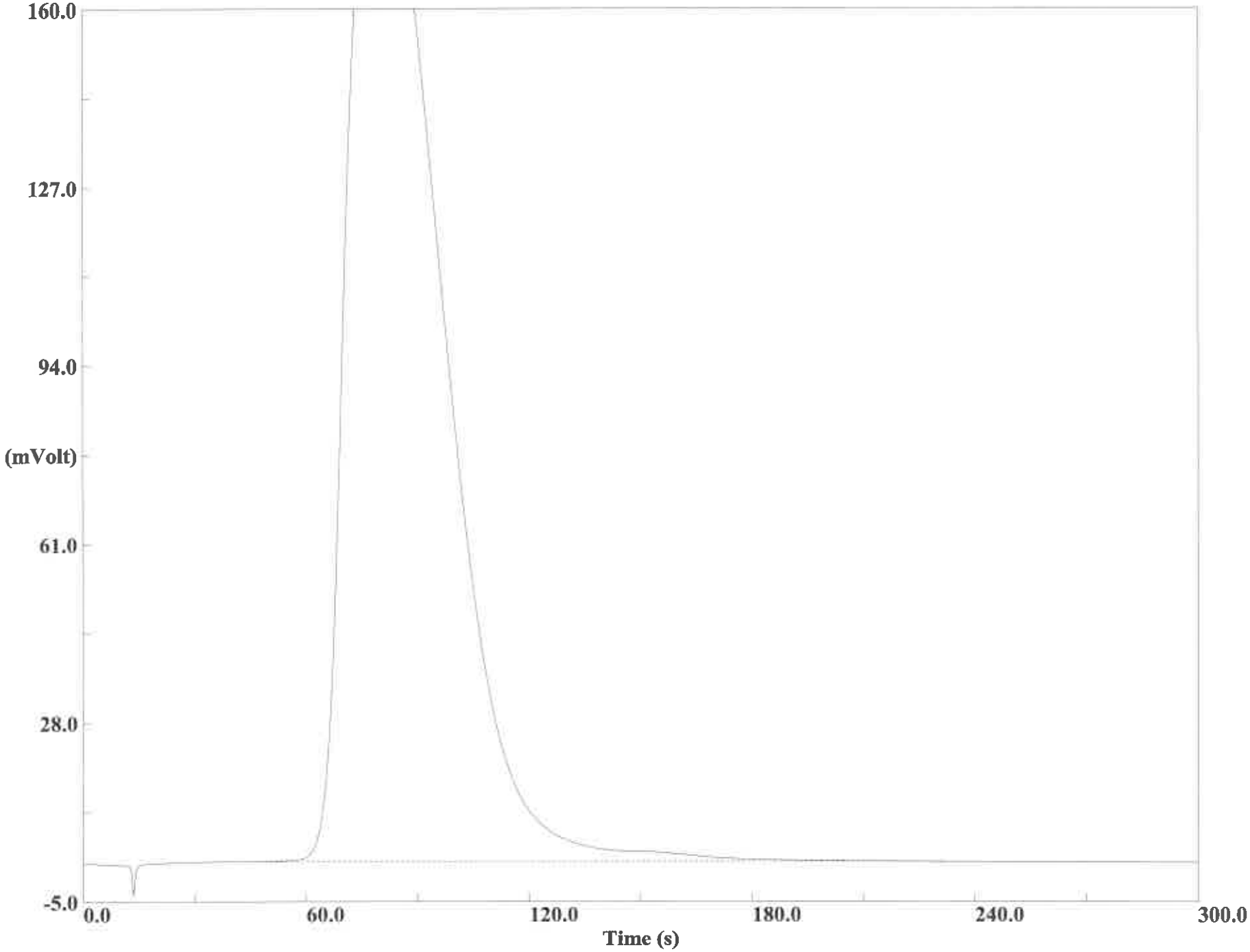
Filename C:\data\January\A100318042.DAT
Sample name :180-82502-c-4 Analysed :10/03/2018 17:29

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



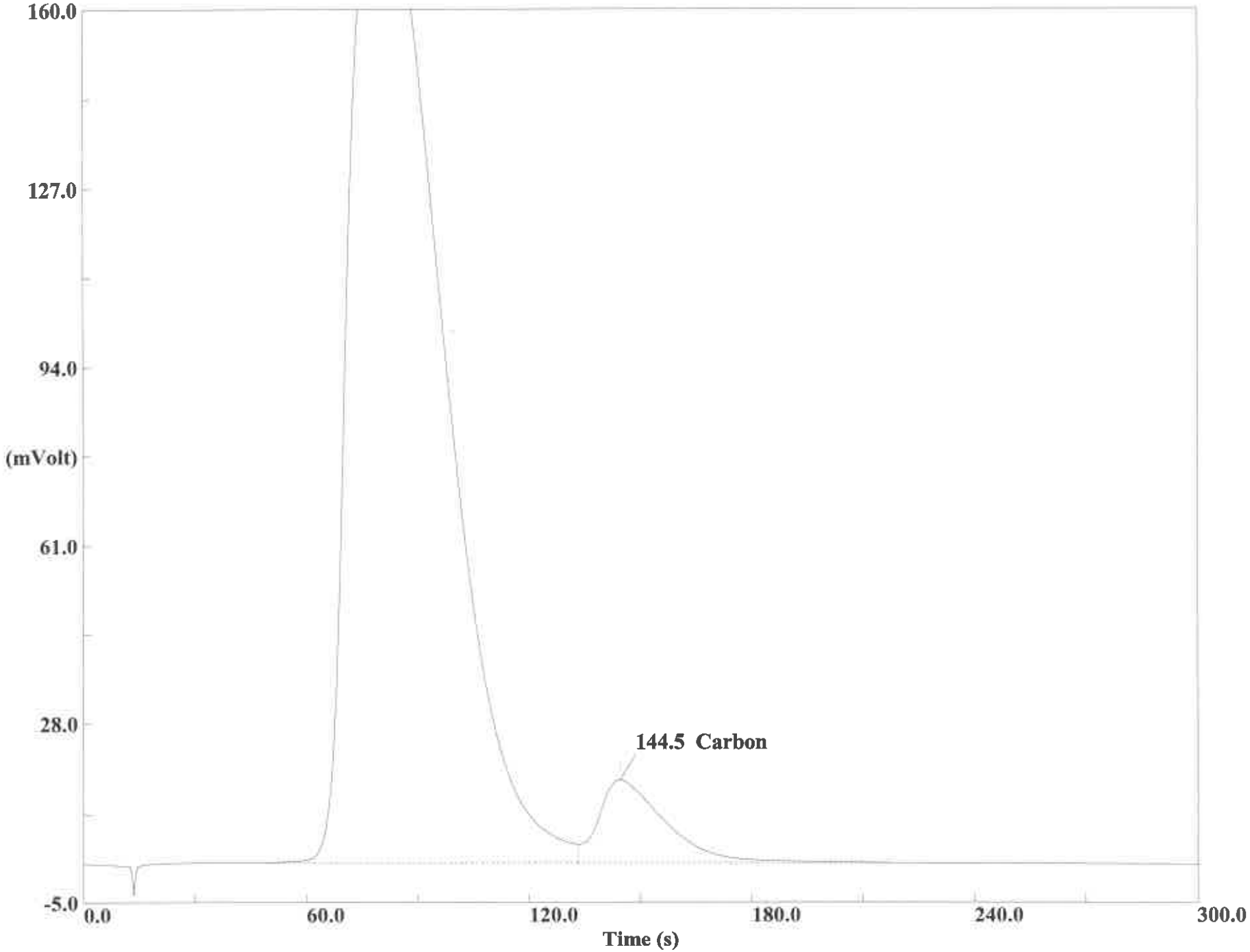
Filename C:\data\January\A100318043.DAT
Sample name :180-82502-b-6 Analysed :10/03/2018 17:34

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



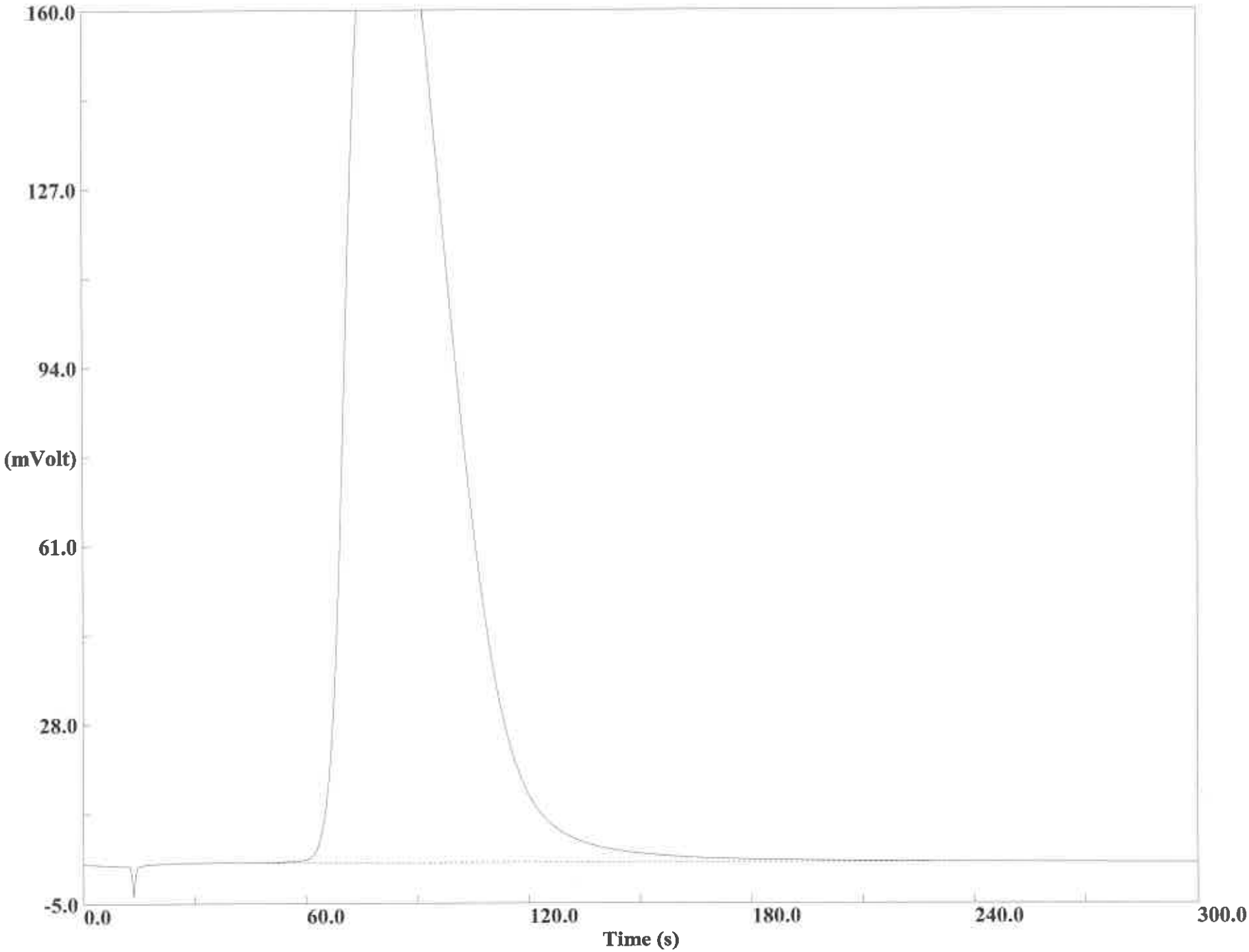
Filename C:\data\January\A100318044.DAT
Sample name :180-82502-b-6 Analysed :10/03/2018 17:39

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



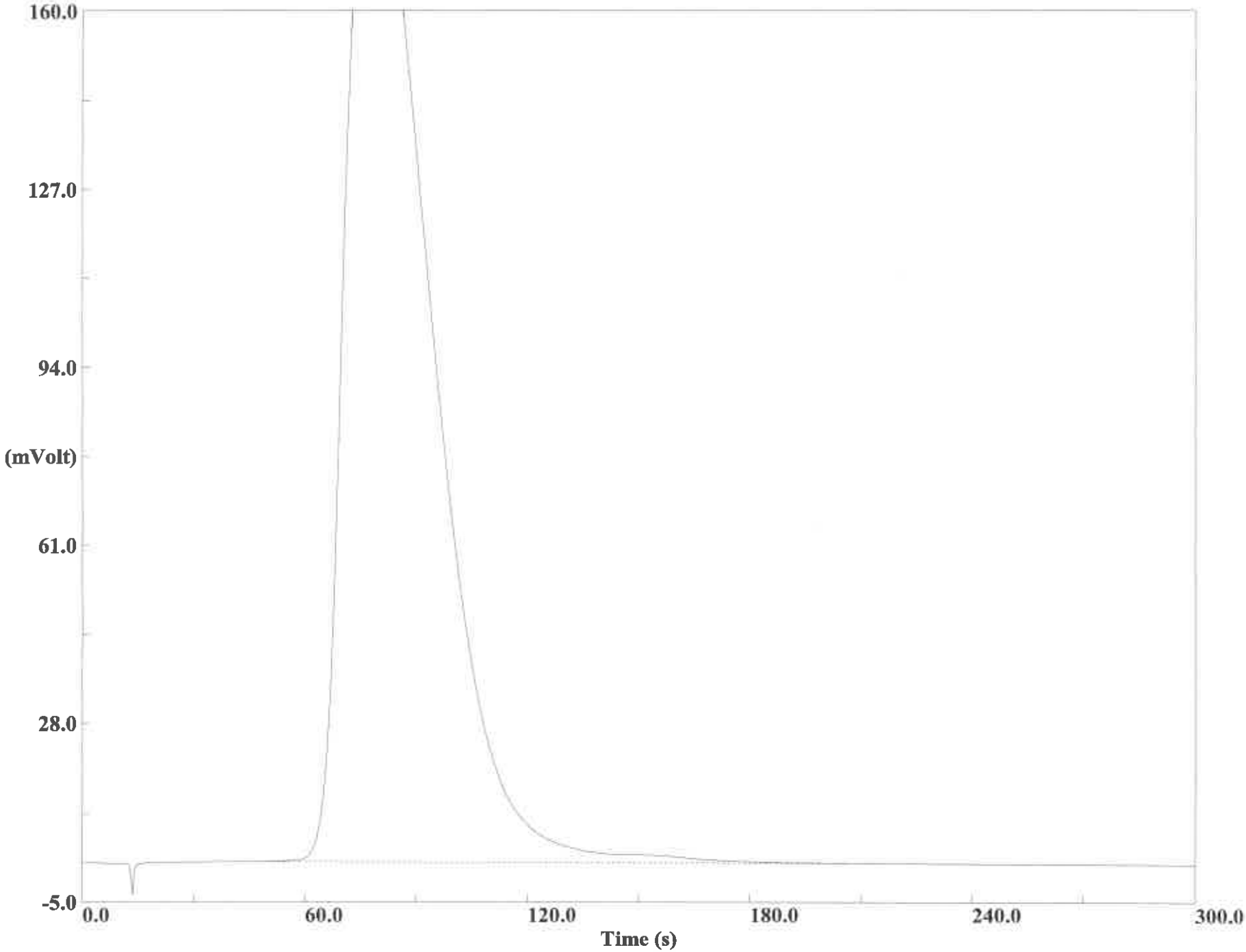
Filename C:\data\January\A100318045.DAT
Sample name :ccv Analysed :10/03/2018 17:44

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



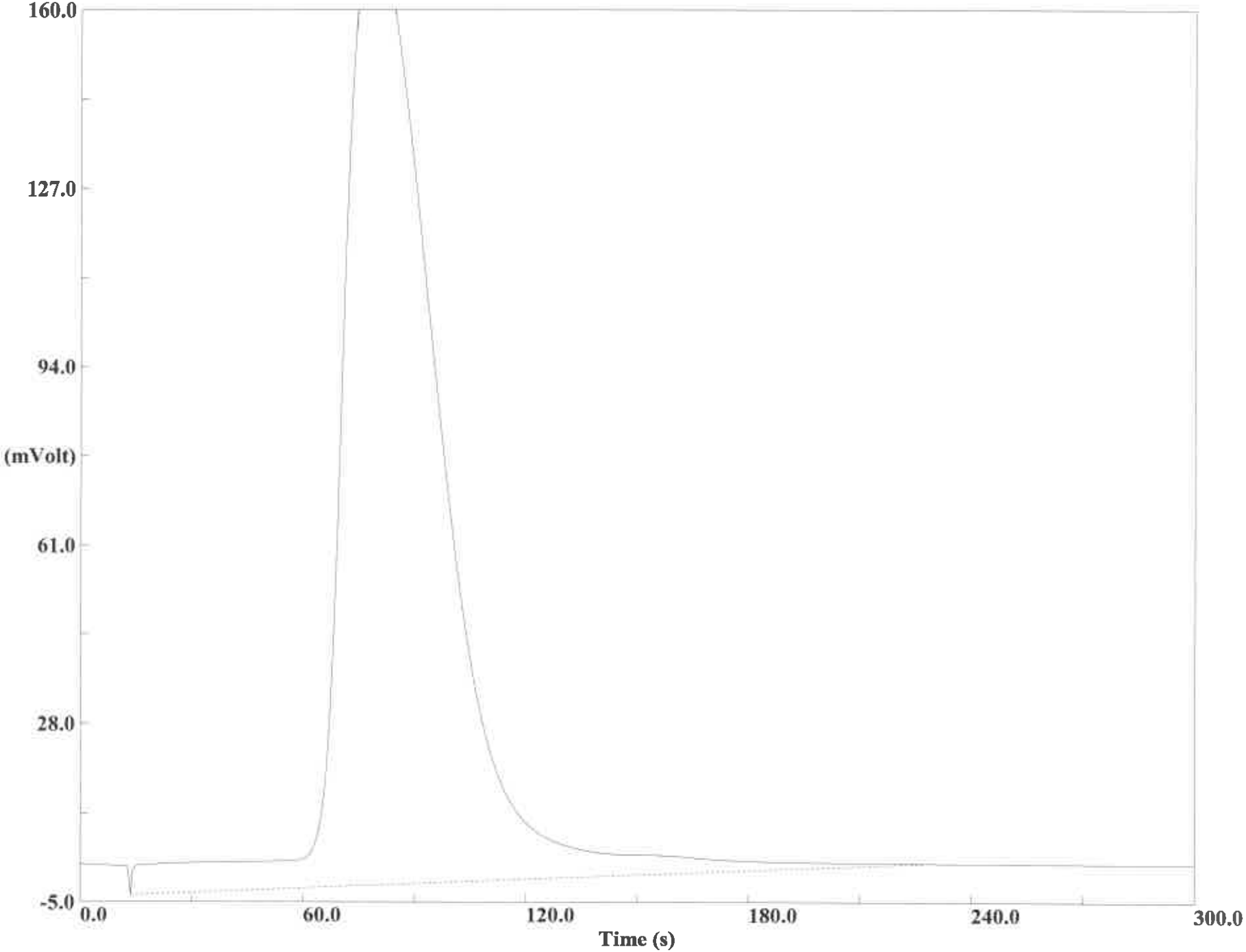
Filename C:\data\January\A100318046.DAT
Sample name :ccb Analysed :10/03/2018 17:49

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



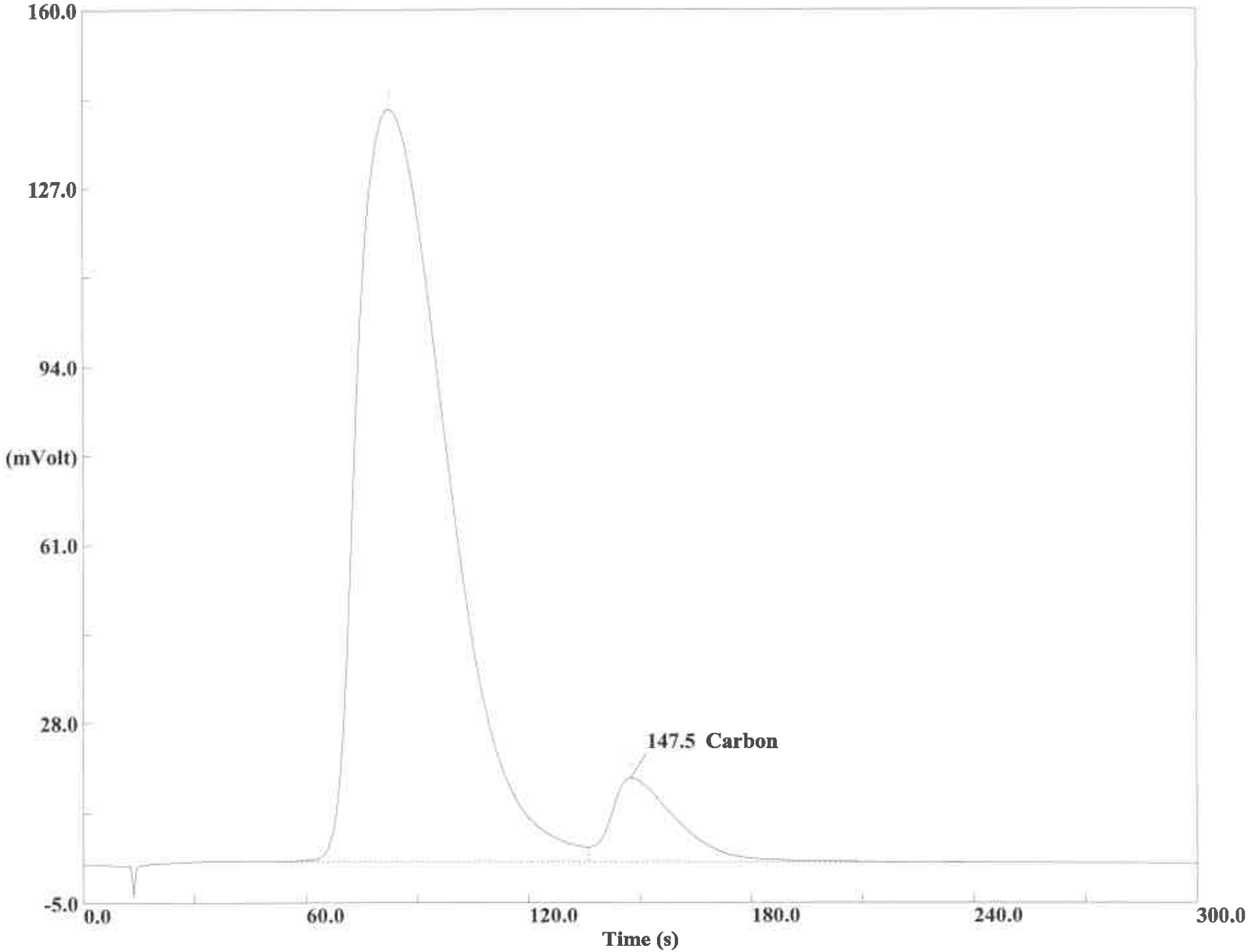
Filename C:\data\January\A100318047.DAT
Sample name :180-82502-c-7 Analysed :10/03/2018 17:54

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



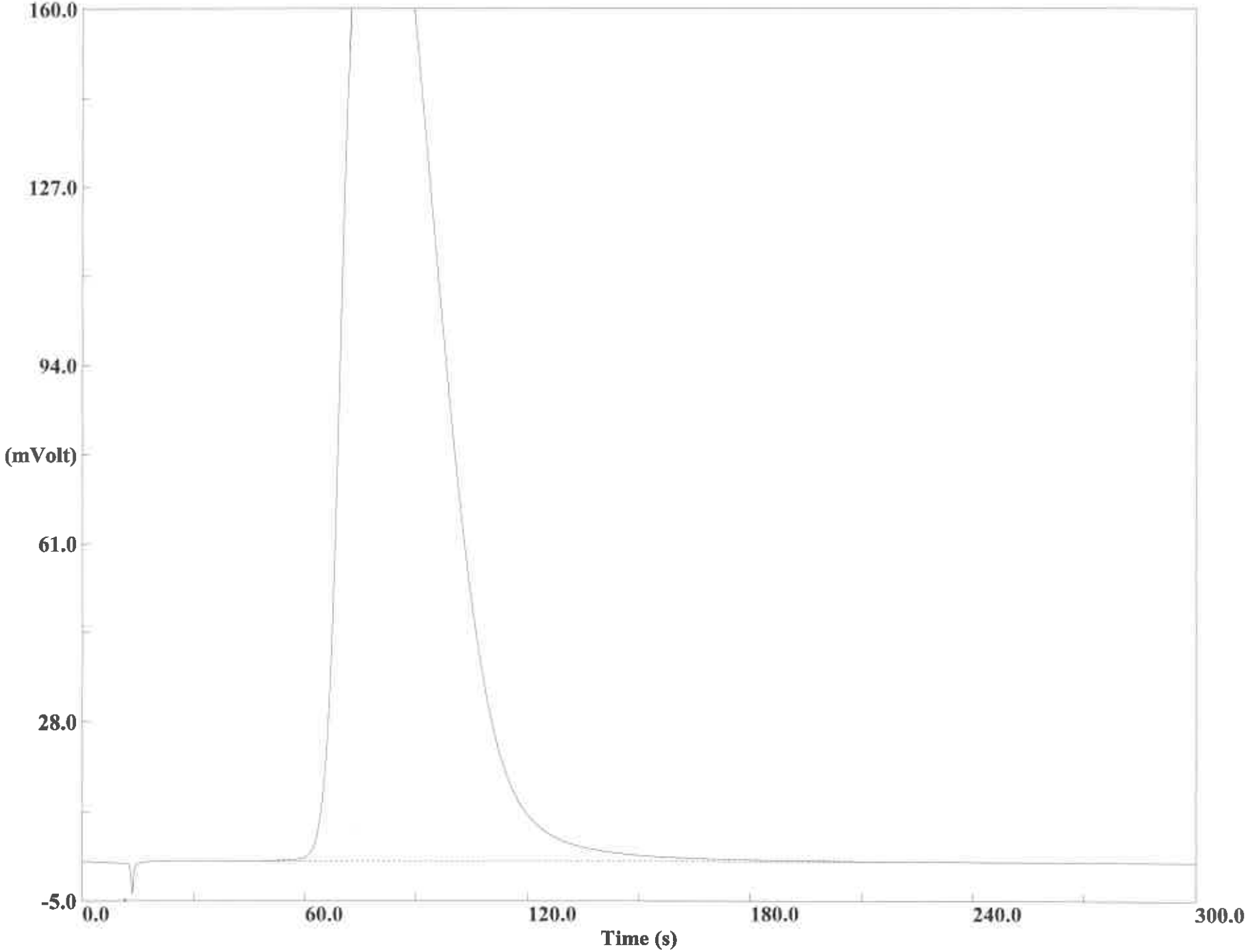
Filename C:\data\January\A100318048.DAT
Sample name :180-82502-c-7 Analysed :10/03/2018 17:59

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318049.DAT
Sample name :ccv Analysed :10/03/2018 18:04

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318050.DAT
Sample name :ccb Analysed :10/03/2018 18:09

Eager Xperience

Method name : Lloyd Kahn
Method filename : C:\data\January\100318.mth

Sample table

Chromatogram overwrite : Enabled

#	Sample name	Filename	Type	Weight	Hum.%
1	BYPASS	A091118001	ByP	-	0
2	BLANK	A091118002	Blk	-	0
3	BLANK	A091118003	Blk	-	0
4	1,000 KHP CT#2854410	A091118004	Std	200	0
5	2,500 KHP CT#2854403	A091118005	Std	50	0
6	5,000 KHP CT#2854403	A091118006	Std	100	0
7	10,000 KHP CT#2854403	A091118007	Std	200	0
8	25,000 KHP CT#2854401	A091118008	Std	50	0
9	50,000 KHP CT#2854401	A091118009	Std	100	0
10	100,000 KHP CT#2854401	A091118010	Std	200	0
11	ICV 37,760 KHP CT#2809390	A091118011	Unk	10	0
12	CCV	A091118012	Unk	100	0
13	CCB	A091118013	Unk	20	0
14	ccv	A100318001	Unk	100	0
15	ccb	A100318002	Unk	20	0
16	mb	A100318003	Unk	21.9	0
17	mb	A100318004	Unk	21.2	0
18	lcs	A100318005	Unk	10.8	0
19	lcs	A100318006	Unk	11	0
20	180-82502-b-5	A100318007	Unk	21.4	0
21	180-82502-b-5	A100318008	Unk	21.4	0
22	180-82502-b-5 ms	A100318009	Unk	20.1	0
23	180-82502-b-5 ms	A100318010	Unk	20	0
24	180-82502-b-5 msd	A100318011	Unk	20.3	0
25	180-82502-b-5 msd	A100318012	Unk	20.5	0
26	180-82502-e-5 du	A100318013	Unk	20.9	0
27	180-82502-e-5 du	A100318014	Unk	20.9	0
28	180-82379-a-1	A100318015	Unk	21.3	0
29	180-82379-a-1	A100318016	Unk	20.7	0
30	180-82379-a-2	A100318017	Unk	20.3	0
31	180-82379-a-2	A100318018	Unk	20.6	0
32	180-82379-a-3	A100318019	Unk	20.8	0
33	180-82379-a-3	A100318020	Unk	21.4	0
34	180-82379-c-1	A100318021	Unk	21.6	0
35	180-82379-c-1	A100318022	Unk	20.9	0
36	ccv	A100318023	Unk	100	0
37	ccb	A100318024	Unk	20	0

#	Sample name	Filename	Type	Weight	Hum.%
38	180-82446-c-2	A100318025	Unk	20.1	0
39	180-82446-c-2	A100318026	Unk	22.1	0
40	180-82446-b-3	A100318027	Unk	20.5	0
41	180-82446-b-3	A100318028	Unk	20.4	0
42	180-82446-c-4	A100318029	Unk	21.4	0
43	180-82446-c-4	A100318030	Unk	21.4	0
44	180-82446-b-5	A100318031	Unk	20.8	0
45	180-82446-b-5	A100318032	Unk	21.4	0
46	180-82446-c-6	A100318033	Unk	10.7	0
47	180-82446-c-6	A100318034	Unk	10.2	0
48	180-82502-b-1	A100318035	Unk	20.3	0
49	180-82502-b-1	A100318036	Unk	20.8	0
50	180-82502-c-2	A100318037	Unk	20.2	0
51	180-82502-c-2	A100318038	Unk	20.9	0
52	180-82502-c-3	A100318039	Unk	21.2	0
53	180-82502-c-3	A100318040	Unk	20.9	0
54	180-82502-c-4	A100318041	Unk	21.7	0
55	180-82502-c-4	A100318042	Unk	21.5	0
56	180-82502-b-6	A100318043	Unk	21	0
57	180-82502-b-6	A100318044	Unk	21.3	0
58	ccv	A100318045	Unk	100	0
59	ccb	A100318046	Unk	20	0
60	180-82502-c-7	A100318047	Unk	21.1	0
61	180-82502-c-7	A100318048	Unk	21.8	0
62	ccv	A100318049	Unk	100	0
63	ccb	A100318050	Unk	20	0

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Pittsburgh Lab Lloyd Kahn SRM Prep Log

Analyst: Josh Fritsch **Date:** 10/4/18

Job No.	Sample ID	Weight (mg)	Average Weights
82379	LCS	10.8	
82446	LCS	11	10.9
82502	82502-5 MS	11.2	
	82502-5 MS	11.3	11.25
	82502-5 MSD	10.6	
	82502-5 MSD	11.2	10.9

JBF
10/4/18

N:\SOPs\Forms\Lloyd Kahn Sample Prep form_Rev.1.doc
Rev. 1, 06/13/11

Llyod Kahn %RPD Replicate Calculation Spreadsheet

Units: mg/kg

Batch#	Sample Workorder#	Results	Average	RPD
258786	lcs	2.97432494		
258786	lcs	3.18535161	3.080	6.85
258786	180-82502-b-5	0.15967147		
258786	180-82502-b-5	0.1759692	0.168	9.71
258786	180-82502-b-5 ms	1.8644196		
258786	180-82502-b-5 ms	1.8997675	1.882	1.88
258786	180-82502-b-5 msd	1.5391793		
258786	180-82502-b-5 msd	1.9473908	1.743	23.42
258786	180-82502-e-5 du	0.1930522		
258786	180-82502-e-5 du	0.1828073	0.188	5.45
258786	180-82379-a-1	0.1352276		
258786	180-82379-a-1	0.1655792	0.150	20.18
258786	180-82379-a-2	0.2608104		
258786	180-82379-a-2	0.2232684	0.242	15.51
258786	180-82379-a-3	0.0000000		
258786	180-82379-a-3	0.0000000	0.000	#DIV/0!
258786	180-82379-c-1	0.1559355		
258786	180-82379-c-1	0.1863665	0.171	17.78
258786	180-82446-c-2	0.2144178		
258786	180-82446-c-2	0.2578390	0.236	18.39
258786	180-82446-b-3	0.6018656		
258786	180-82446-b-3	0.1895060	0.396	104.21
258786	180-82446-c-4	0.6413239		
258786	180-82446-c-4	0.6881067	0.665	7.04
258786	180-82446-b-5	0.2673143		
258786	180-82446-b-5	0.1648174	0.216	47.44
258786	180-82446-c-6	0.9116676		
258786	180-82446-c-6	0.6537008	0.783	32.96
258786	180-82502-b-1	0.2077185		
258786	180-82502-b-1	0.1972064	0.202	5.19
258786	180-82502-c-2	0.2076406		
258786	180-82502-c-2	0.1756480	0.192	16.69
258786	180-82502-c-3	0.1982171		
258786	180-82502-c-3	0.1922793	0.195	3.04
258786	180-82502-c-4	0.1746778		
258786	180-82502-c-4	0.2032698	0.189	15.13
258786	180-82502-b-6	0.1713704		
258786	180-82502-b-6	0.1798803	0.176	4.85
258786	180-82502-c-7	0.1893865		
258786	180-82502-c-7	0.1973925	0.193	4.14

Eager Xperience

Method name : Lloyd Kahn
Method filename : C:\data\January\100318x.mth

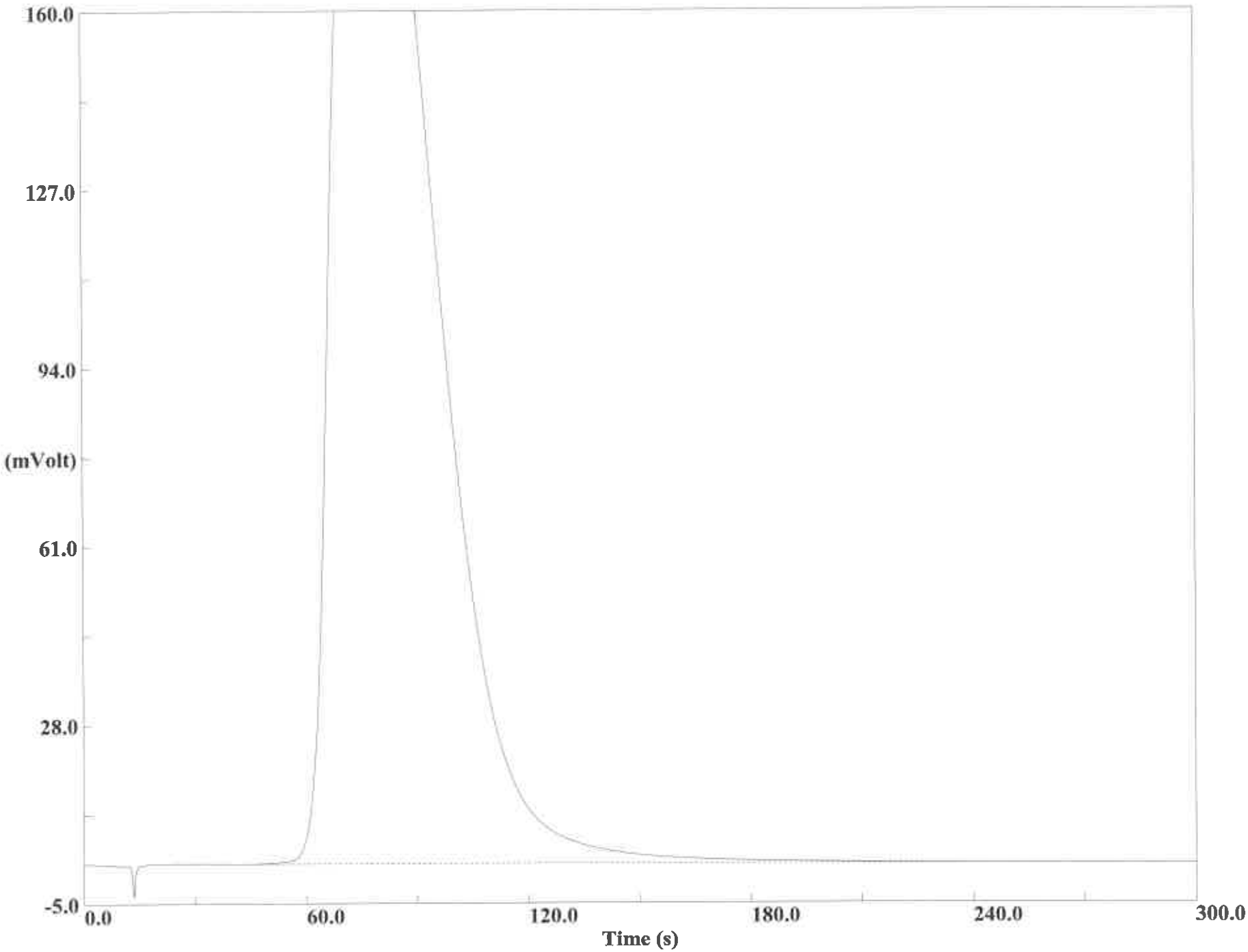
Sample table

Chromatogram overwrite : Enabled

#	Sample name	Filename	Type	Weight	Hum.%
1	BYPASS	A091118001	ByP	-	0
2	BLANK	A091118002	Blk	-	0
3	BLANK	A091118003	Blk	-	0
4	1,000 KHP CT#2854410	A091118004	Std	200	0
5	2,500 KHP CT#2854403	A091118005	Std	50	0
6	5,000 KHP CT#2854403	A091118006	Std	100	0
7	10,000 KHP CT#2854403	A091118007	Std	200	0
8	25,000 KHP CT#2854401	A091118008	Std	50	0
9	50,000 KHP CT#2854401	A091118009	Std	100	0
10	100,000 KHP CT#2854401	A091118010	Std	200	0
11	ICV 37,760 KHP CT#2809390	A091118011	Unk	10	0
12	CCV	A091118012	Unk	100	0
13	CCB	A091118013	Unk	20	0
14	ccv	A100318001	Unk	100	0
15	ccb	A100318002	Unk	20	0
16	mb	A100318003	Unk	21.55	0
17	mb	A100318004	Unk	21.55	0
18	lcs	A100318005	Unk	10.9	0
19	lcs	A100318006	Unk	10.9	0
20	180-82502-b-5	A100318007	Unk	21.4	0
21	180-82502-b-5	A100318008	Unk	21.4	0
22	180-82502-b-5 ms	A100318009	Unk	20.05	0
23	180-82502-b-5 ms	A100318010	Unk	20.05	0
24	180-82502-b-5 msd	A100318011	Unk	20.4	0
25	180-82502-b-5 msd	A100318012	Unk	20.4	0
26	180-82502-e-5 du	A100318013	Unk	20.9	0
27	180-82502-e-5 du	A100318014	Unk	20.9	0
28	180-82379-a-1	A100318015	Unk	21.3	0
29	180-82379-a-1	A100318016	Unk	20.7	0
30	180-82379-a-2	A100318017	Unk	20.3	0
31	180-82379-a-2	A100318018	Unk	20.6	0
32	180-82379-a-3	A100318019	Unk	20.8	0
33	180-82379-a-3	A100318020	Unk	21.4	0
34	180-82379-c-1	A100318021	Unk	21.6	0
35	180-82379-c-1	A100318022	Unk	20.9	0
36	ccv	A100318023	Unk	100	0
37	ccb	A100318024	Unk	20	0

#	Sample name	Filename	Type	Weight	Hum.%
38	180-82446-c-2	A100318025	Unk	20.1	0
39	180-82446-c-2	A100318026	Unk	22.1	0
40	180-82446-b-3	A100318027	Unk	20.5	0
41	180-82446-b-3	A100318028	Unk	20.4	0
42	180-82446-c-4	A100318029	Unk	21.4	0
43	180-82446-c-4	A100318030	Unk	21.4	0
44	180-82446-b-5	A100318031	Unk	20.8	0
45	180-82446-b-5	A100318032	Unk	21.4	0
46	180-82446-c-6	A100318033	Unk	10.7	0
47	180-82446-c-6	A100318034	Unk	10.2	0
48	180-82502-b-1	A100318035	Unk	20.3	0
49	180-82502-b-1	A100318036	Unk	20.8	0
50	180-82502-c-2	A100318037	Unk	20.2	0
51	180-82502-c-2	A100318038	Unk	20.9	0
52	180-82502-c-3	A100318039	Unk	21.2	0
53	180-82502-c-3	A100318040	Unk	20.9	0
54	180-82502-c-4	A100318041	Unk	21.7	0
55	180-82502-c-4	A100318042	Unk	21.5	0
56	180-82502-b-6	A100318043	Unk	21	0
57	180-82502-b-6	A100318044	Unk	21.3	0
58	ccv	A100318045	Unk	100	0
59	ccb	A100318046	Unk	20	0
60	180-82502-c-7	A100318047	Unk	21.1	0
61	180-82502-c-7	A100318048	Unk	21.8	0
62	ccv	A100318049	Unk	100	0
63	ccb	A100318050	Unk	20	0

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318003.DAT
Sample name :mb Analysed :10/03/2018 14:08

Eager 300 Report

Page: 1 Sample: mb (A100318003)

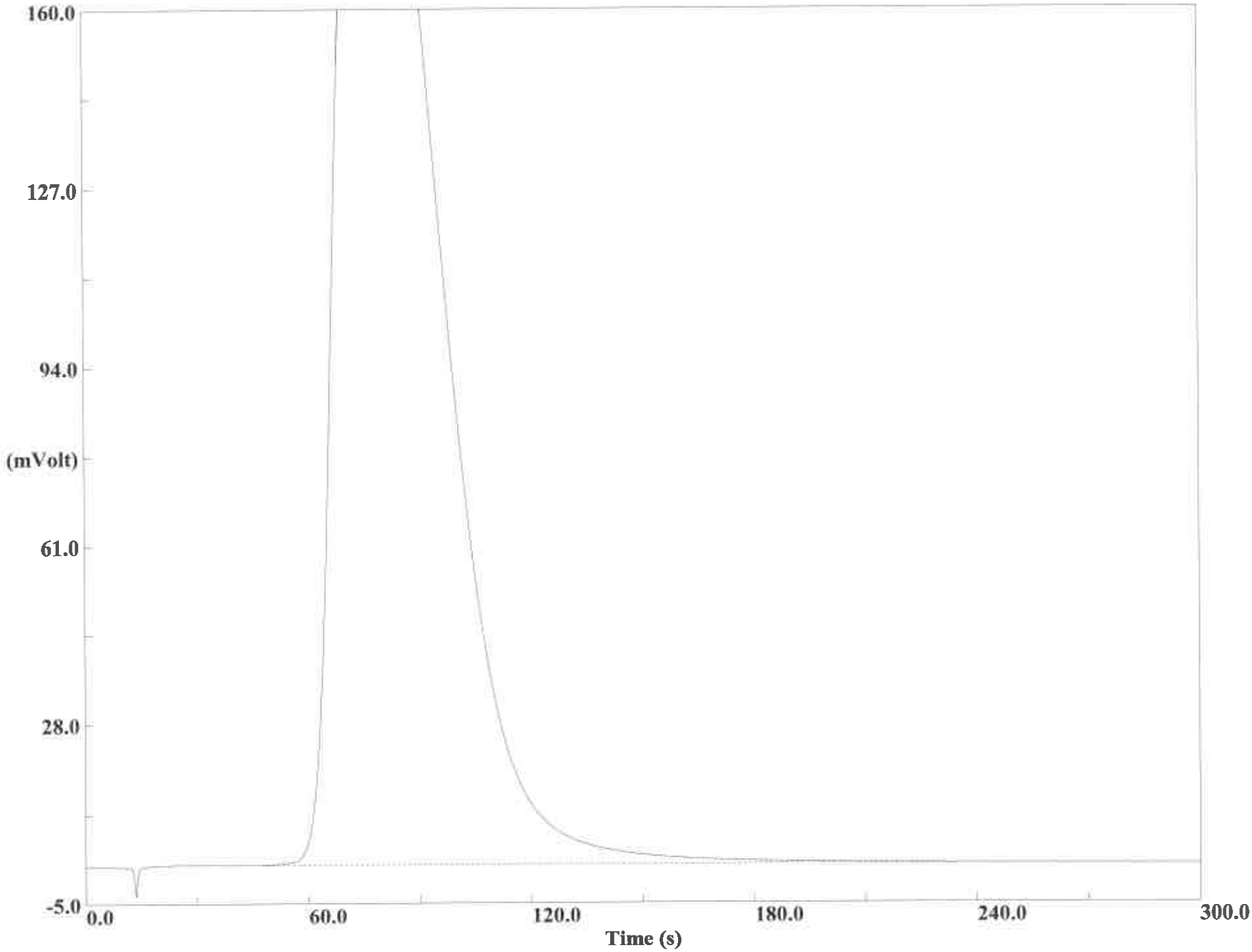
Method Name : Lloyd Kahn
Method File : C:\data\January\100318x.mth
Chromatogram : A100318003
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 14:08 Printed : 10/4/2018 09:28
Sample ID : mb (# 16)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 21.55

Calib. method : using 'Least Squares to Linear fit'

!!! Warning missing one or more peaks.

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318004.DAT
Sample name :mb Analysed :10/03/2018 14:13

Eager 300 Report

Page: 1 Sample: mb (A100318004)

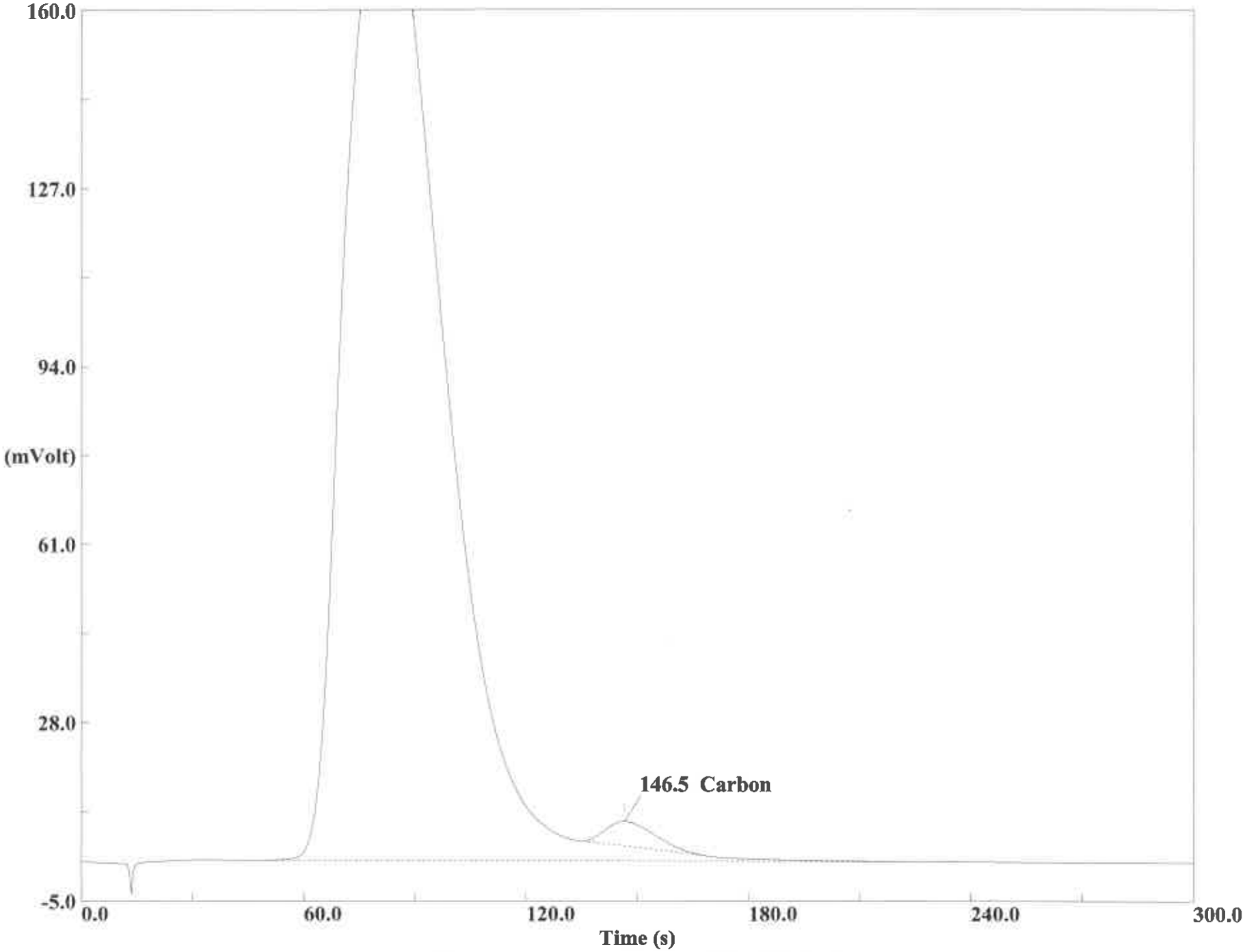
Method Name : Lloyd Kahn
Method File : C:\data\January\100318x.mth
Chromatogram : A100318004
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 14:13 Printed : 10/4/2018 09:28
Sample ID : mb (# 17)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 21.55

Calib. method : using 'Least Squares to Linear fit'

!!! Warning missing one or more peaks.

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318005.DAT
Sample name :lcs Analysed :10/03/2018 14:18

Eager 300 Report

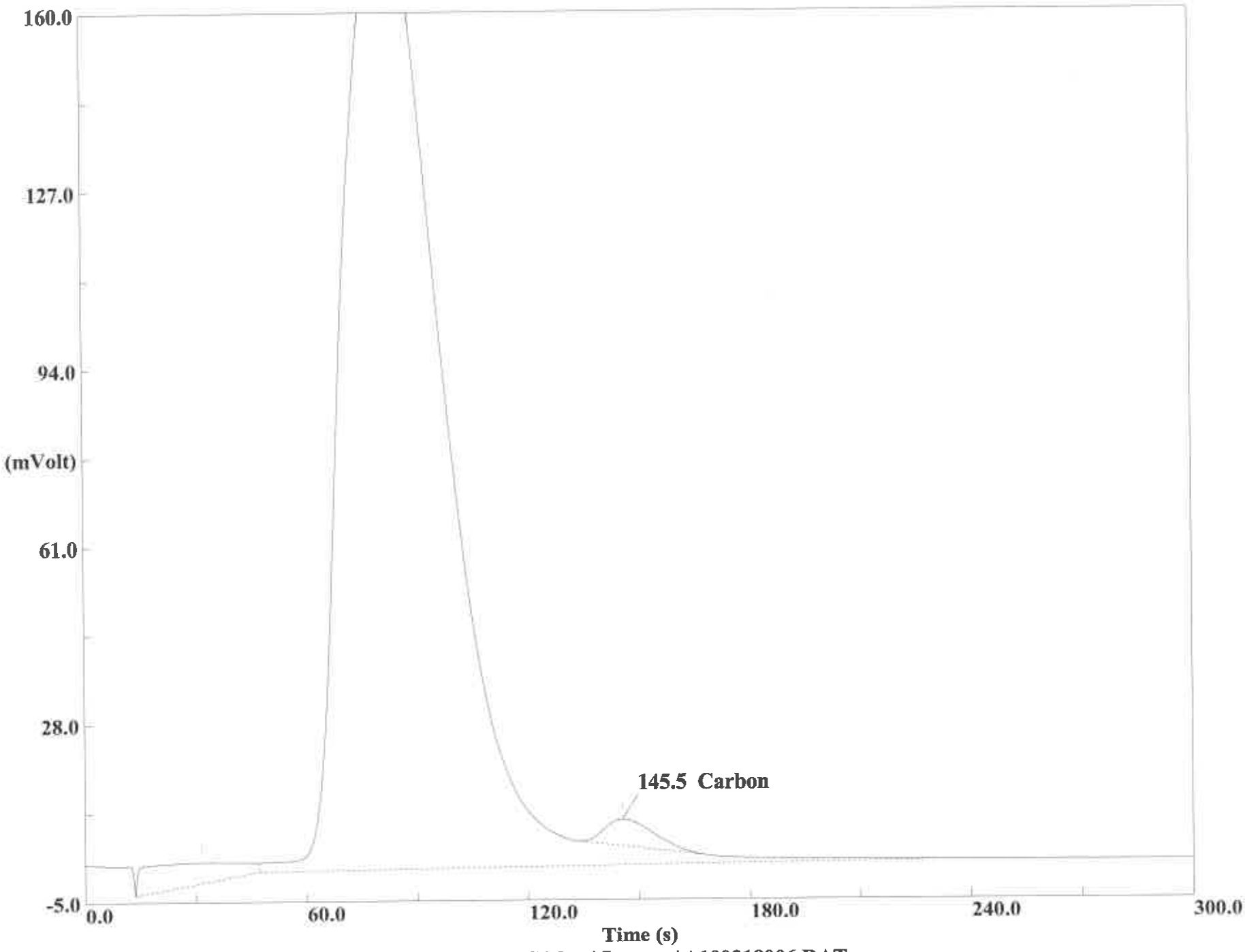
Page: 1 Sample: lcs (A100318005)

Method Name : Lloyd Kahn
Method File : C:\data\January\100318x.mth
Chromatogram : A100318005
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 14:18 Printed : 10/4/2018 08:58
Sample ID : lcs (# 18)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 10.9

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	2.9743	147	694382	CR	1.000000	

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318006.DAT
Sample name :lcs Analysed :10/03/2018 14:25

Eager 300 Report

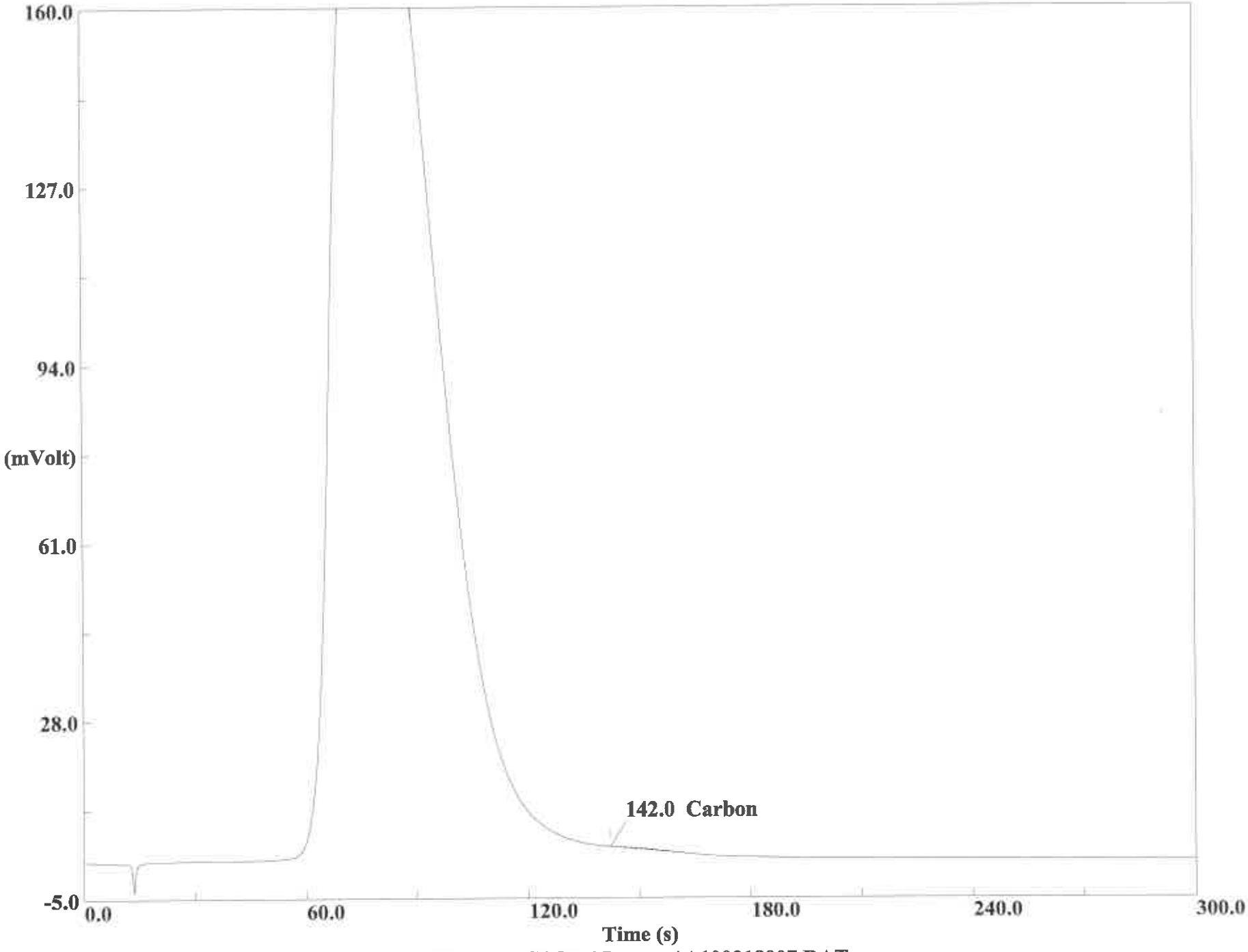
Page: 1 Sample: lcs (A100318006)

Method Name : Lloyd Kahn
Method File : C:\data\January\100318x.mth
Chromatogram : A100318006
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 14:25 Printed : 10/4/2018 08:58
Sample ID : lcs (# 19)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 10.9

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	3.1854	146	748063	CR	1.000000	

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318007.DAT
Sample name :180-82502-b-5 Analysed :10/03/2018 14:30

Eager 300 Report

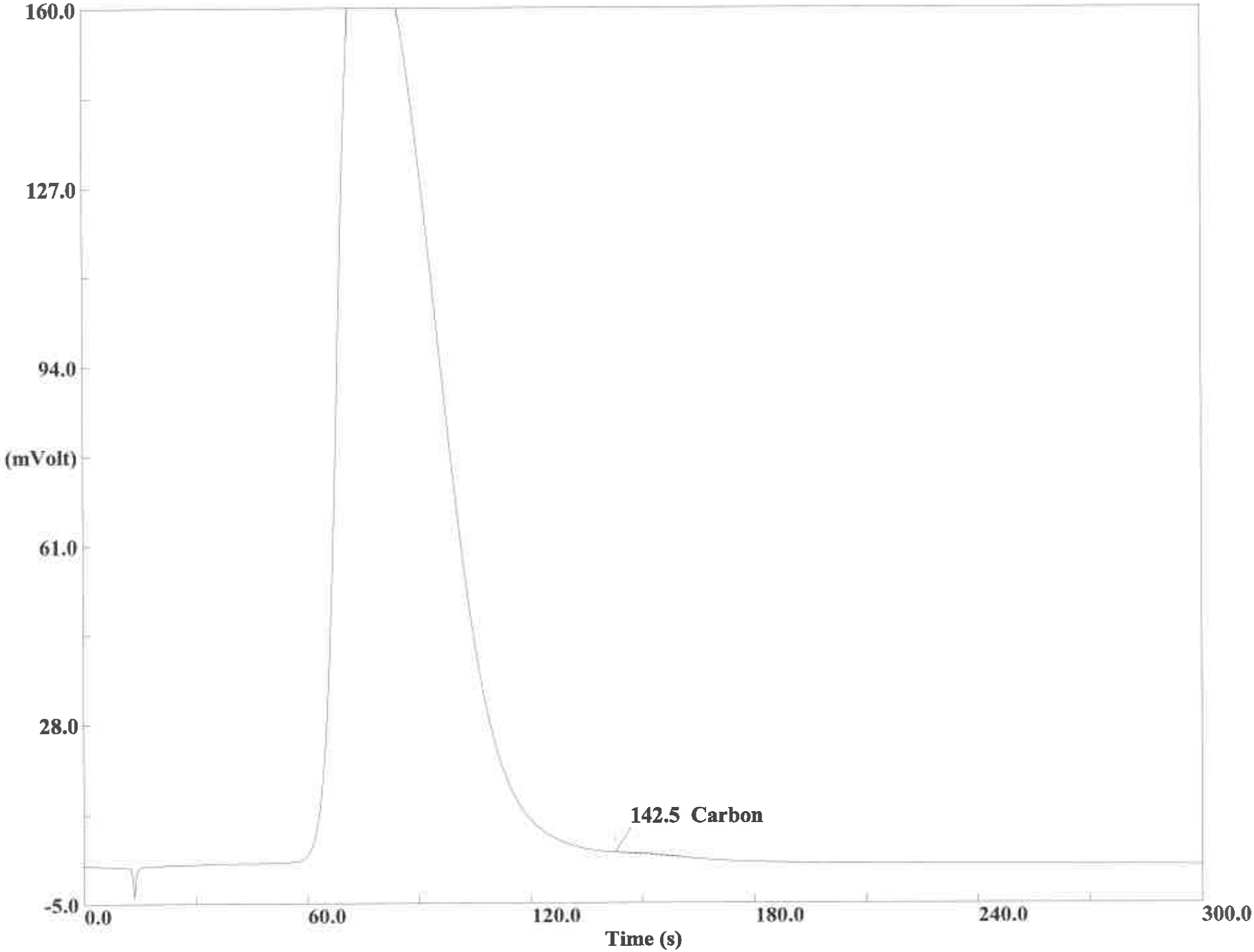
Page: 1 Sample: 180-82502-b-5 (A100318007)

Method Name : Lloyd Kahn
Method File : C:\data\January\100318x.mth
Chromatogram : A100318007
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 14:30 Printed : 10/4/2018 08:58
Sample ID : 180-82502-b-5 (# 20)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 21.4

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.1597	142	17517	mi	1.000000	

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318008.DAT
Sample name :180-82502-b-5 Analysed :10/03/2018 14:36

Eager 300 Report

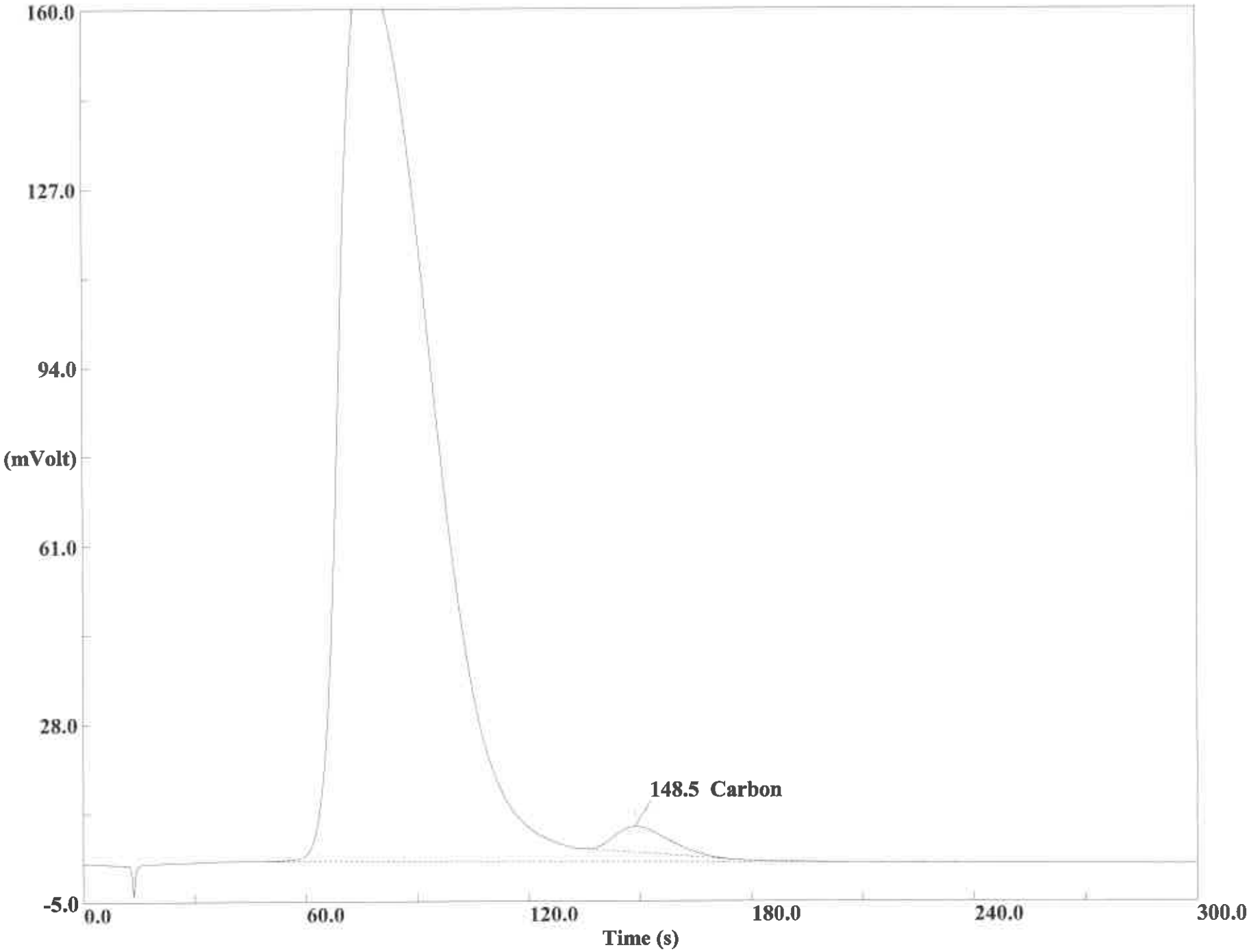
Page: 1 Sample: 180-82502-b-5 (A100318008)

Method Name : Lloyd Kahn
Method File : C:\data\January\100318x.mth
Chromatogram : A100318008
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 14:36 Printed : 10/4/2018 08:58
Sample ID : 180-82502-b-5 (# 21)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 21.4

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.1760	143	25656	mi	1.000000	

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318009.DAT
Sample name :180-82502-b-5 ms Analysed :10/03/2018 14:41

Eager 300 Report

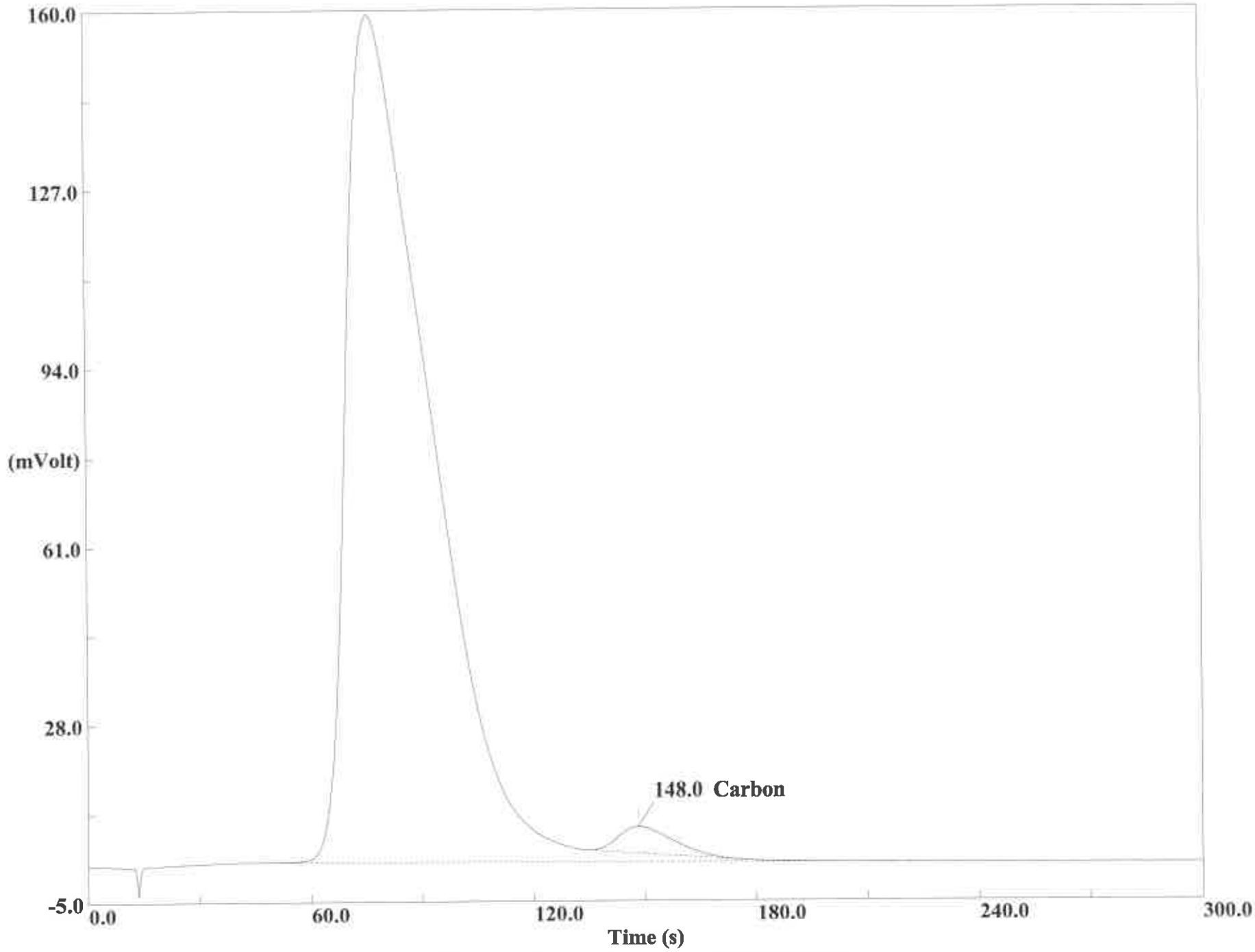
Page: 1 Sample: 180-82502-b-5 ms (A100318009)

Method Name : Lloyd Kahn
Method File : C:\data\January\100318x.mth
Chromatogram : A100318009
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 14:41 Printed : 10/4/2018 08:58
Sample ID : 180-82502-b-5 ms (# 22)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20.05

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	1.8644	149	810171	CR	1.000000	

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318010.DAT
Sample name :180-82502-b-5 ms Analysed :10/03/2018 14:46

Eager 300 Report

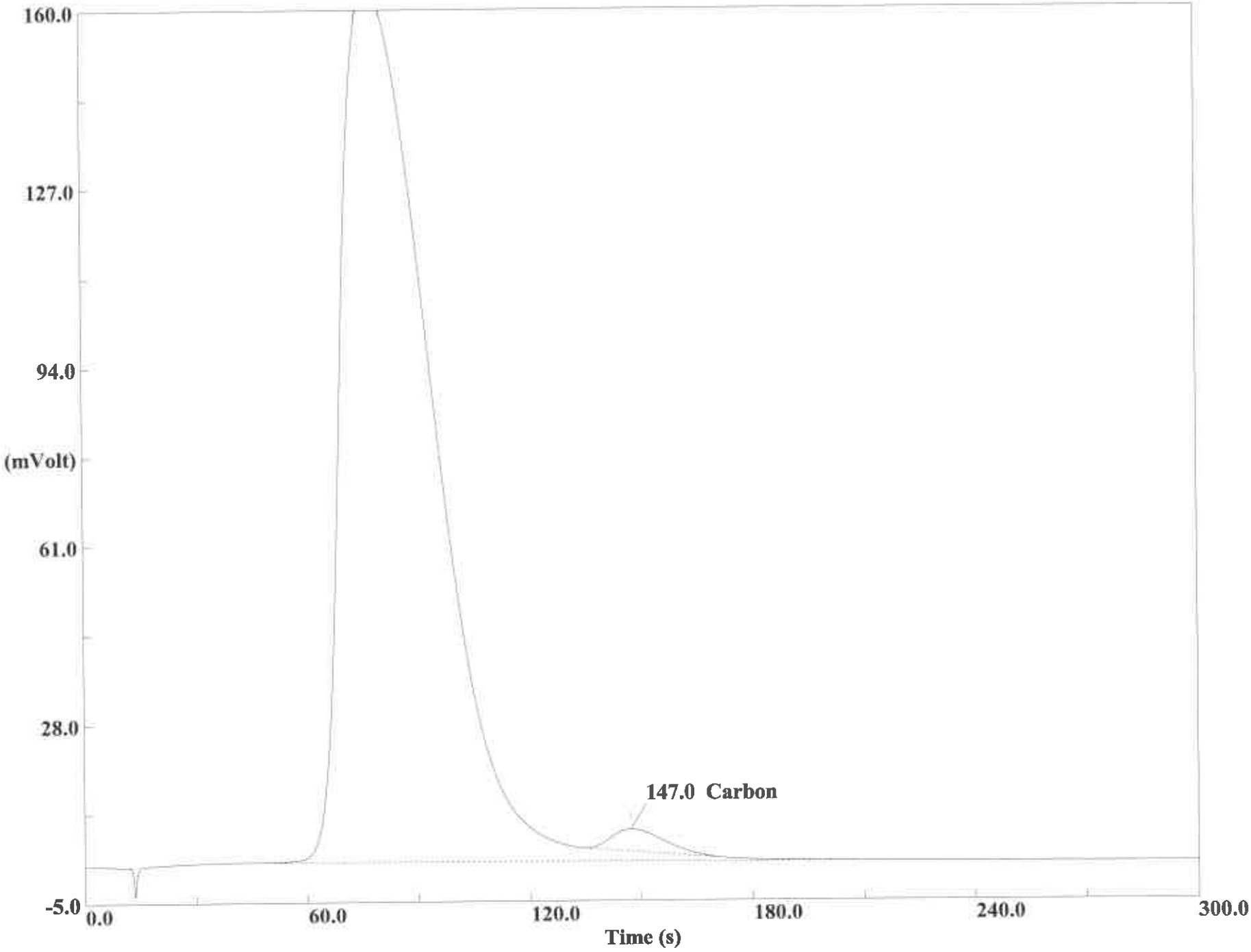
Page: 1 Sample: 180-82502-b-5 ms (A100318010)

Method Name : Lloyd Kahn
Method File : C:\data\January\100318x.mth
Chromatogram : A100318010
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 14:46 Printed : 10/4/2018 08:58
Sample ID : 180-82502-b-5 ms (# 23)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20.05

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	1.8998	148	826711	CR	1.000000	

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318011.DAT
Sample name :180-82502-b-5 msd Analysed :10/03/2018 14:51

Eager 300 Report

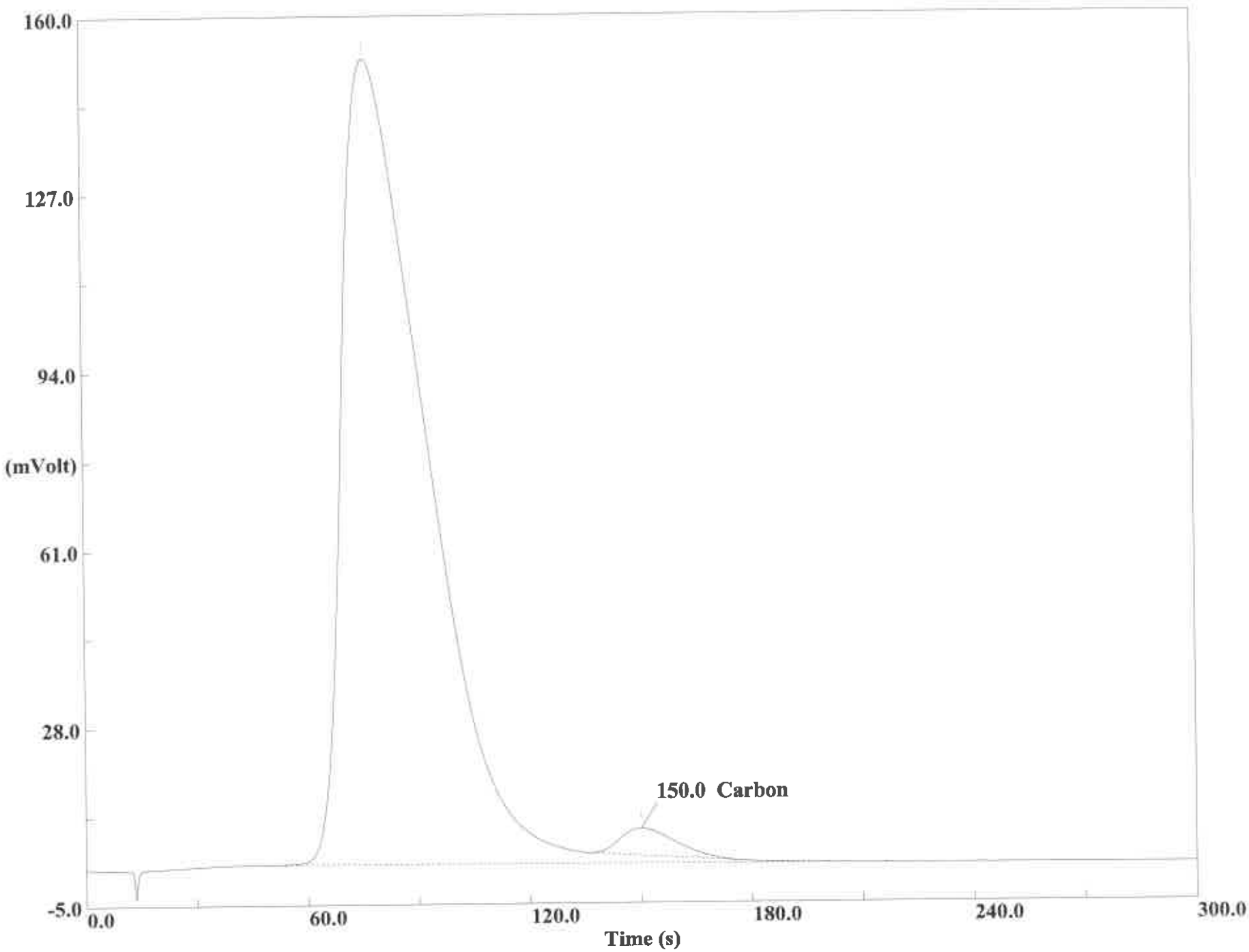
Page: 1 Sample: 180-82502-b-5 msd (A100318011)

Method Name : Lloyd Kahn
Method File : C:\data\January\100318x.mth
Chromatogram : A100318011
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 14:51 Printed : 10/4/2018 08:58
Sample ID : 180-82502-b-5 msd (# 24)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20.4

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	1.5392	147	670557	CR	1.000000	

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318012.DAT
Sample name :180-82502-b-5 msd Analysed :10/03/2018 14:56

Eager 300 Report

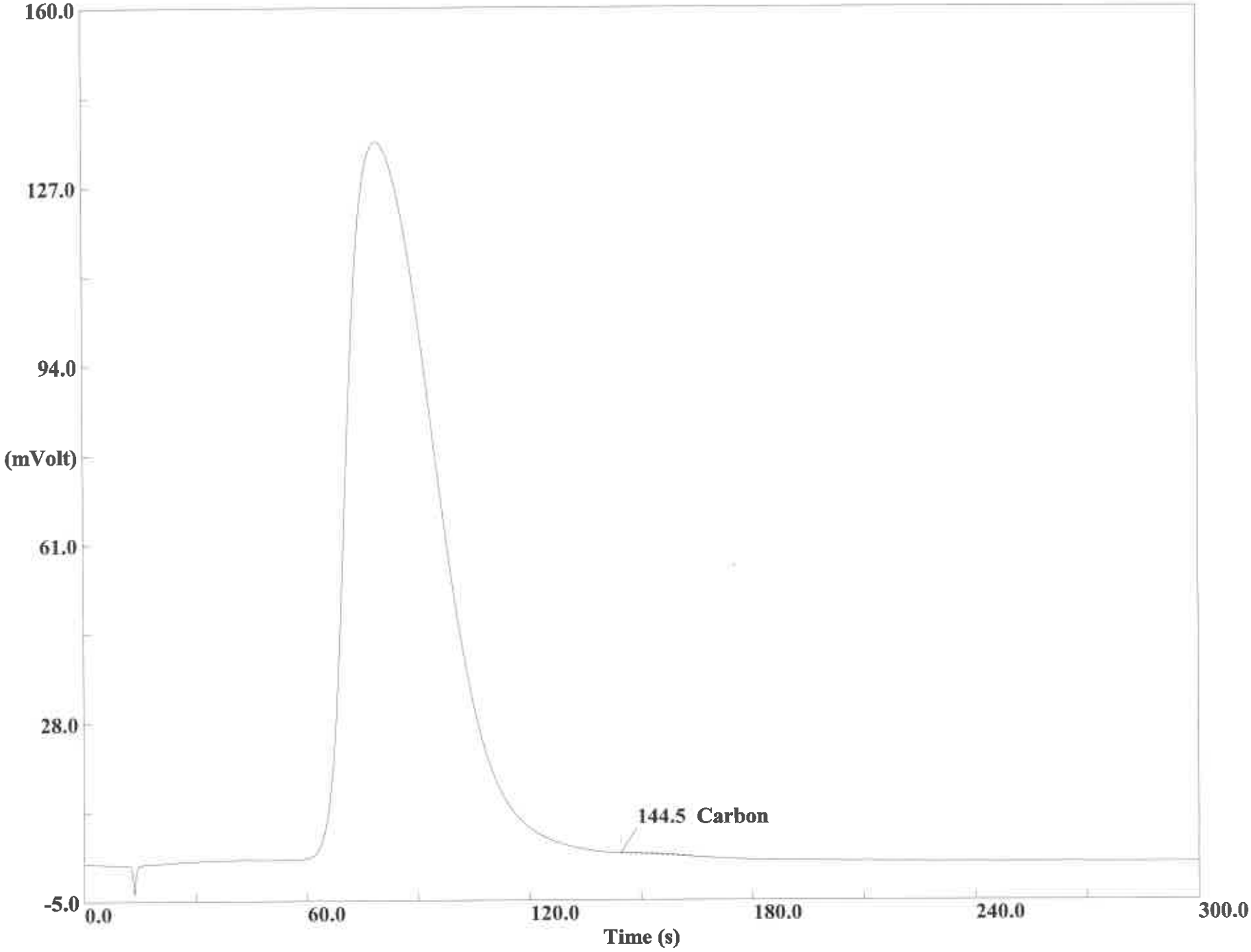
Page: 1 Sample: 180-82502-b-5 msd (A100318012)

Method Name : Lloyd Kahn
Method File : C:\data\January\100318x.mth
Chromatogram : A100318012
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 14:56 Printed : 10/4/2018 08:58
Sample ID : 180-82502-b-5 msd (# 25)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20.4

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	1.9474	150	864902	CR	1.000000	

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318013.DAT
Sample name :180-82502-e-5 du Analysed :10/03/2018 15:01

Eager 300 Report

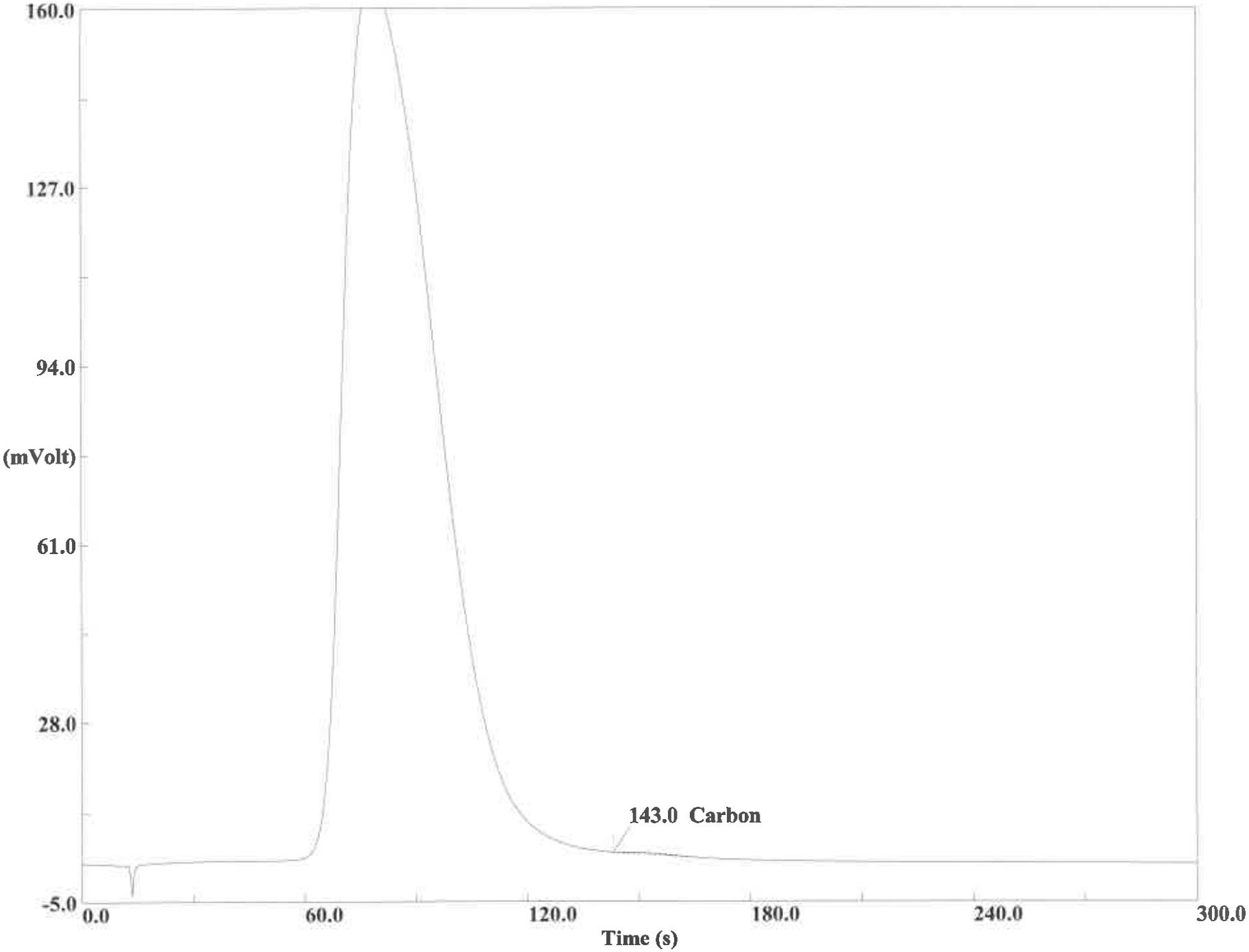
Page: 1 Sample: 180-82502-e-5 du (A100318013)

Method Name : Lloyd Kahn
Method File : C:\data\January\100318x.mth
Chromatogram : A100318013
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 15:01 Printed : 10/4/2018 08:58
Sample ID : 180-82502-e-5 du (# 26)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20.9

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.1931	145	31935	mi	1.000000	

Manual Integration on 10/04/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100318014.DAT
Sample name :180-82502-e-5 du Analysed :10/03/2018 15:06

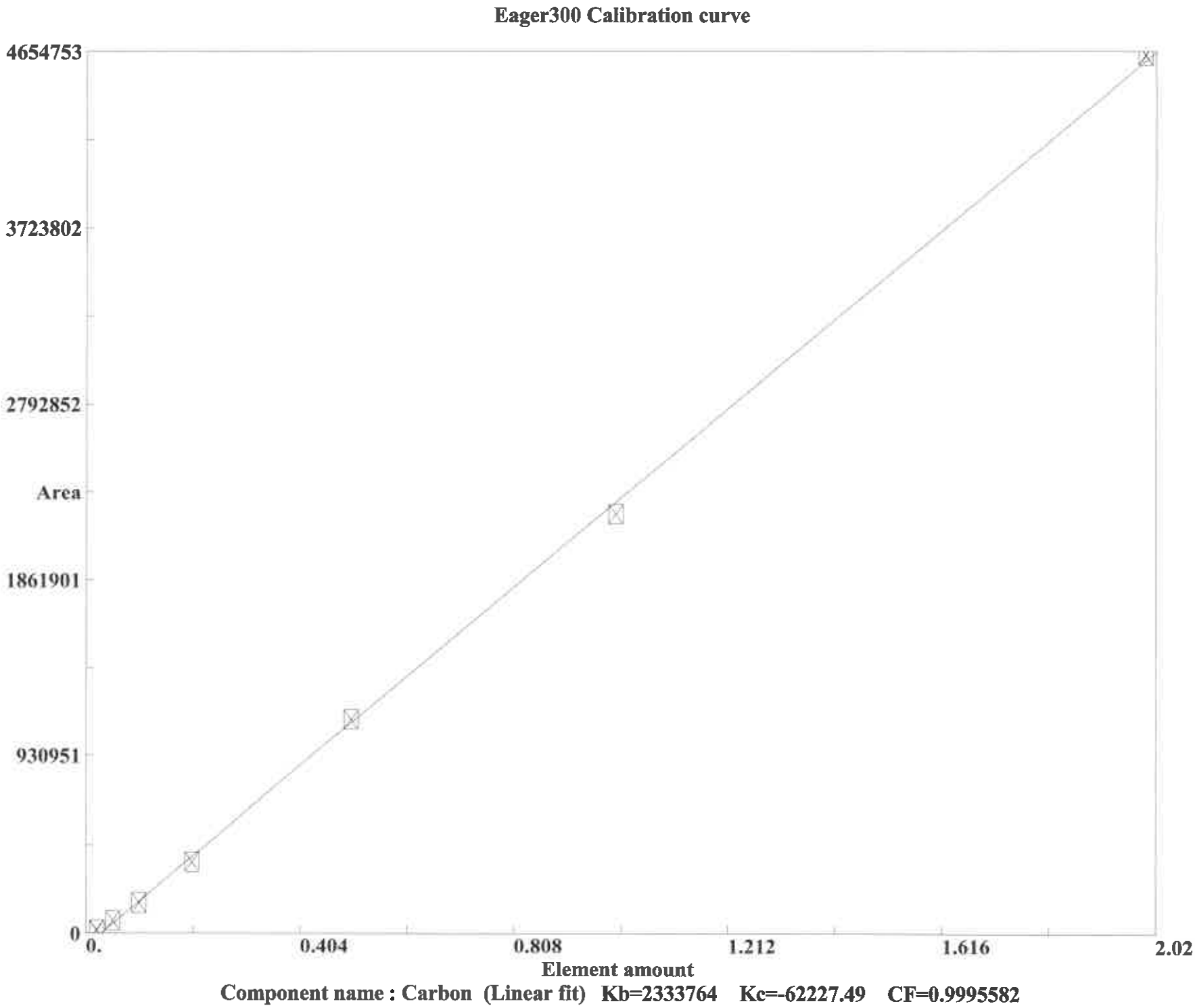
Eager 300 Report

Page: 1 Sample: 180-82502-e-5 du (A100318014)

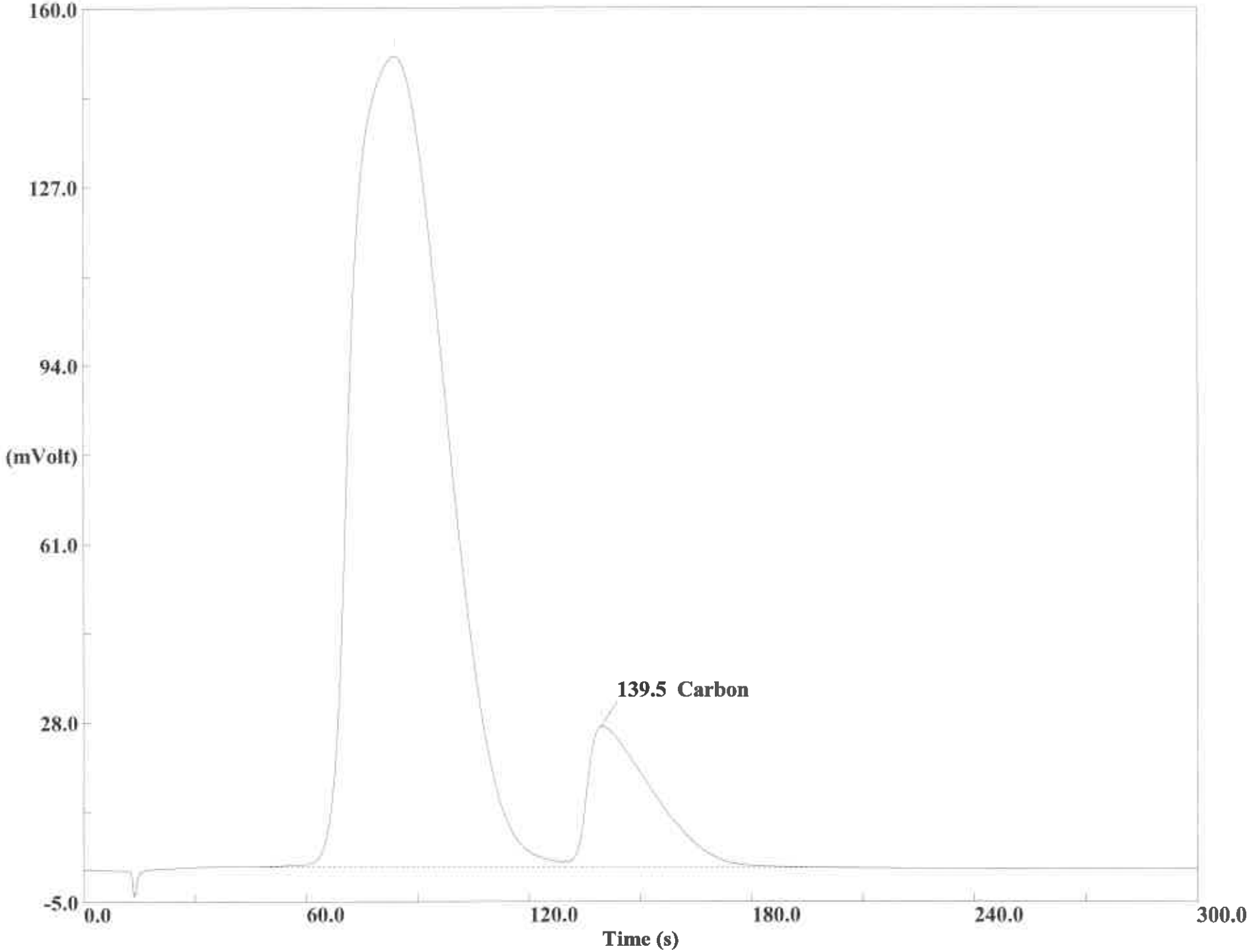
Method Name : Lloyd Kahn
Method File : C:\data\January\100318x.mth
Chromatogram : A100318014
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/03/2018 15:06 Printed : 10/4/2018 08:58
Sample ID : 180-82502-e-5 du (# 27)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20.9

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.1828	143	26938	mi	1.000000	

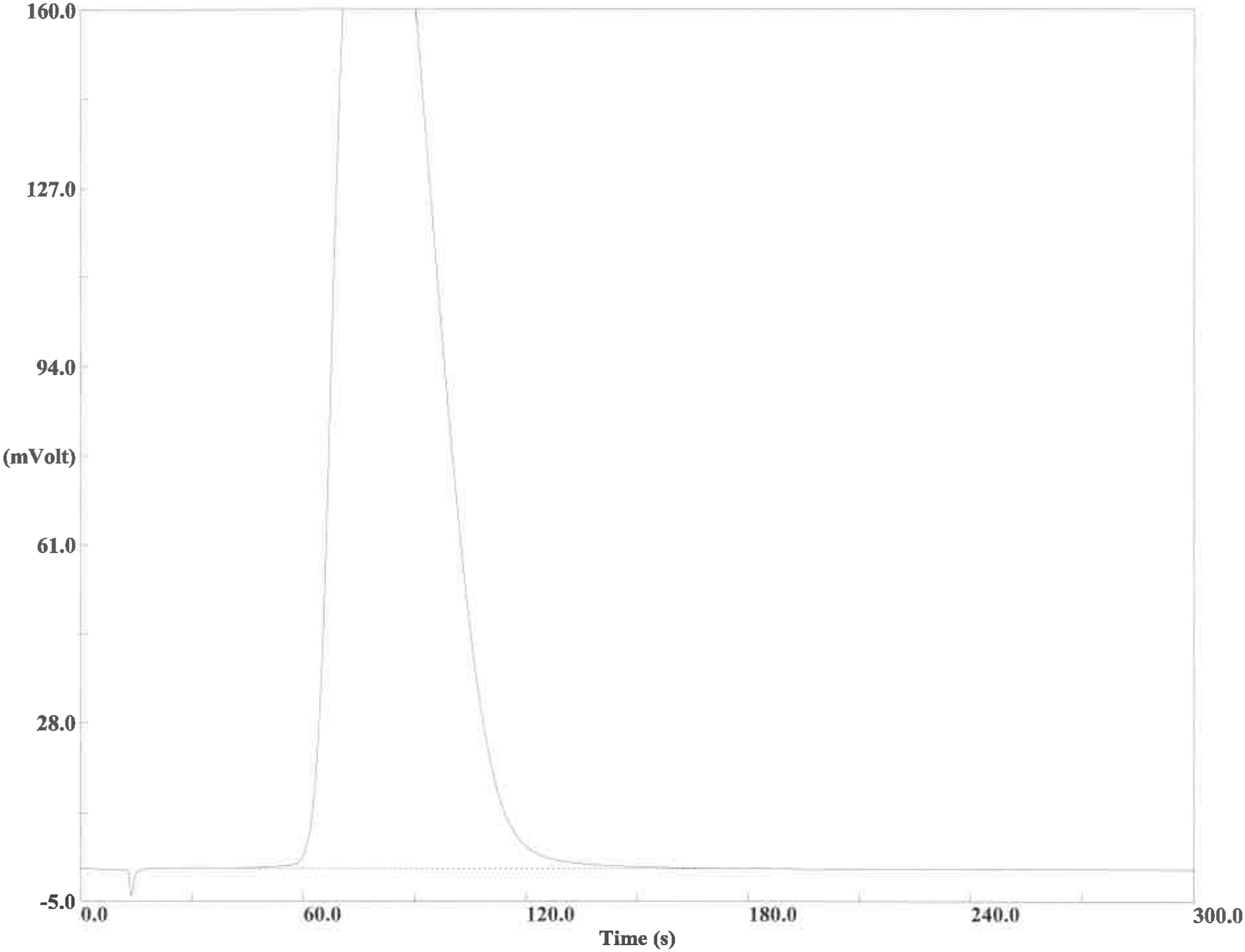

Eager300 Calibration curve
4654753
3723802
2792852
Area
1861901
930951
0
0.
0.404
0.808
1.212
1.616
2.02
Element amount
Component name : Carbon (Linear fit) Kb=2333764 Kc=-62227.49 CF=0.9995582

Manual Integration on 09/12/18 by Josh Fritsch due to poor baseline draw



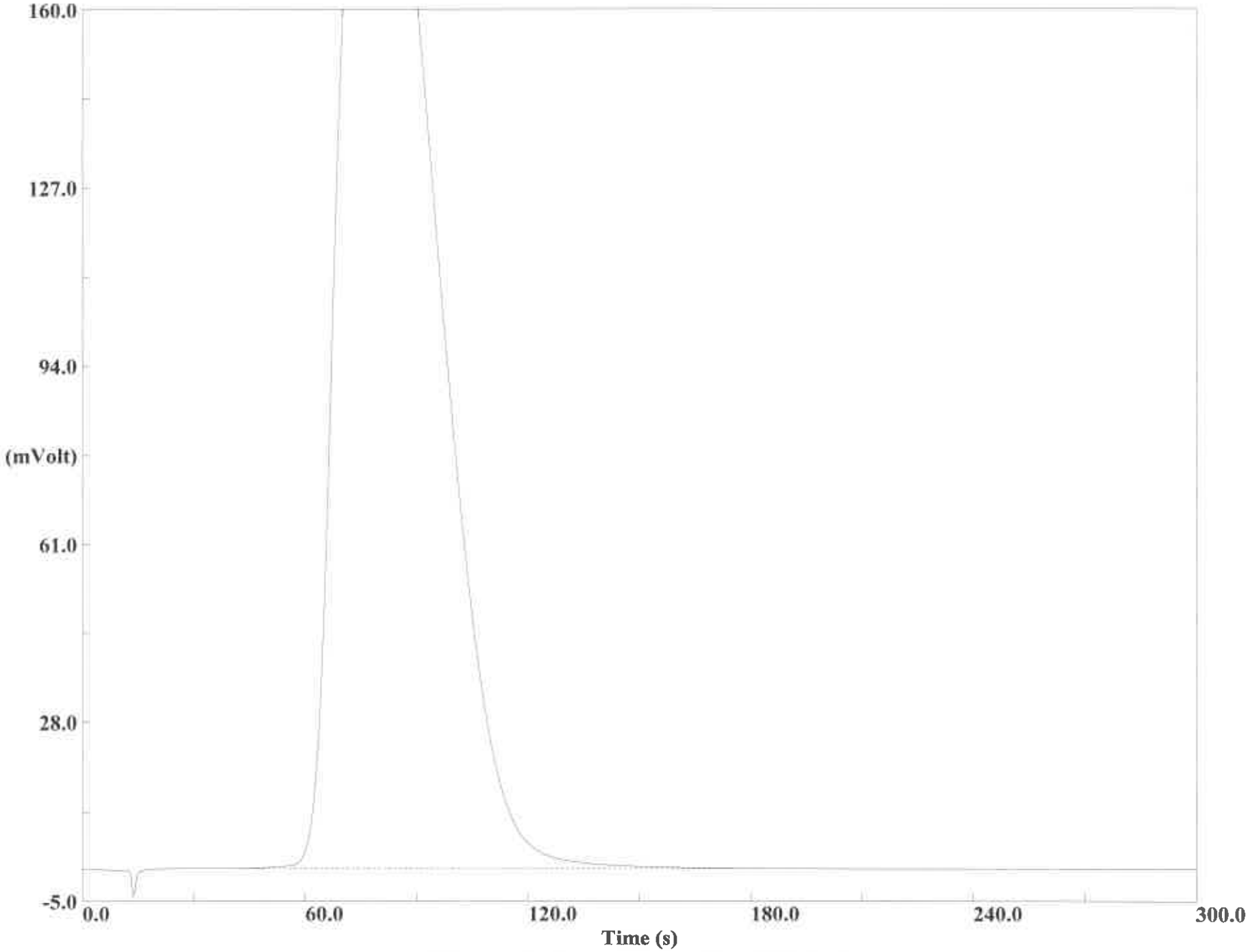
Filename C:\data\January\A091118001.DAT
Sample name :BYPASS Analysed :09/11/2018 10:36

Manual Integration on 09/12/18 by Josh Fritsch due to poor baseline draw



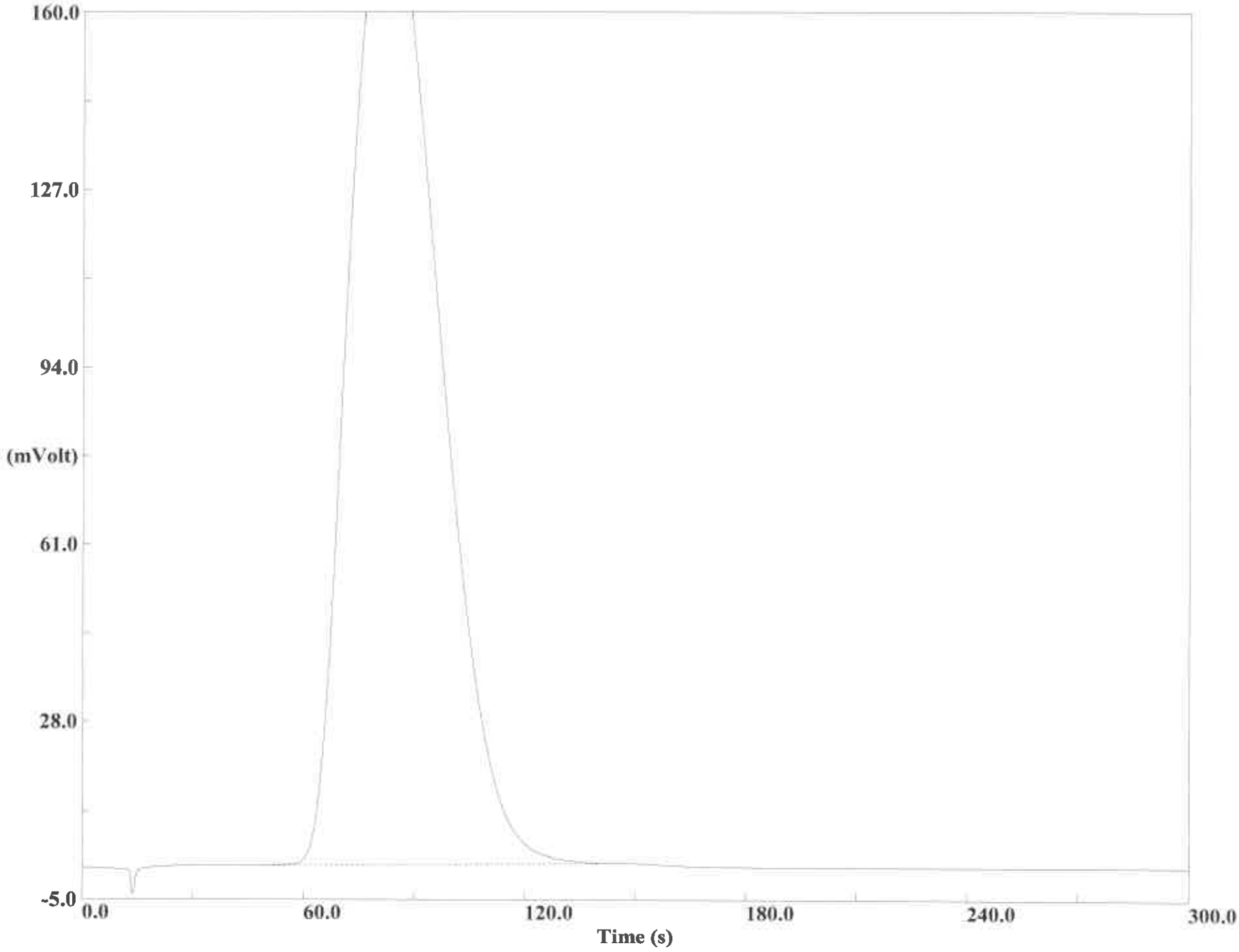
Filename C:\data\January\A091118002.DAT
Sample name :BLANK Analysed :09/11/2018 10:41

Manual Integration on 09/12/18 by Josh Fritsch due to poor baseline draw



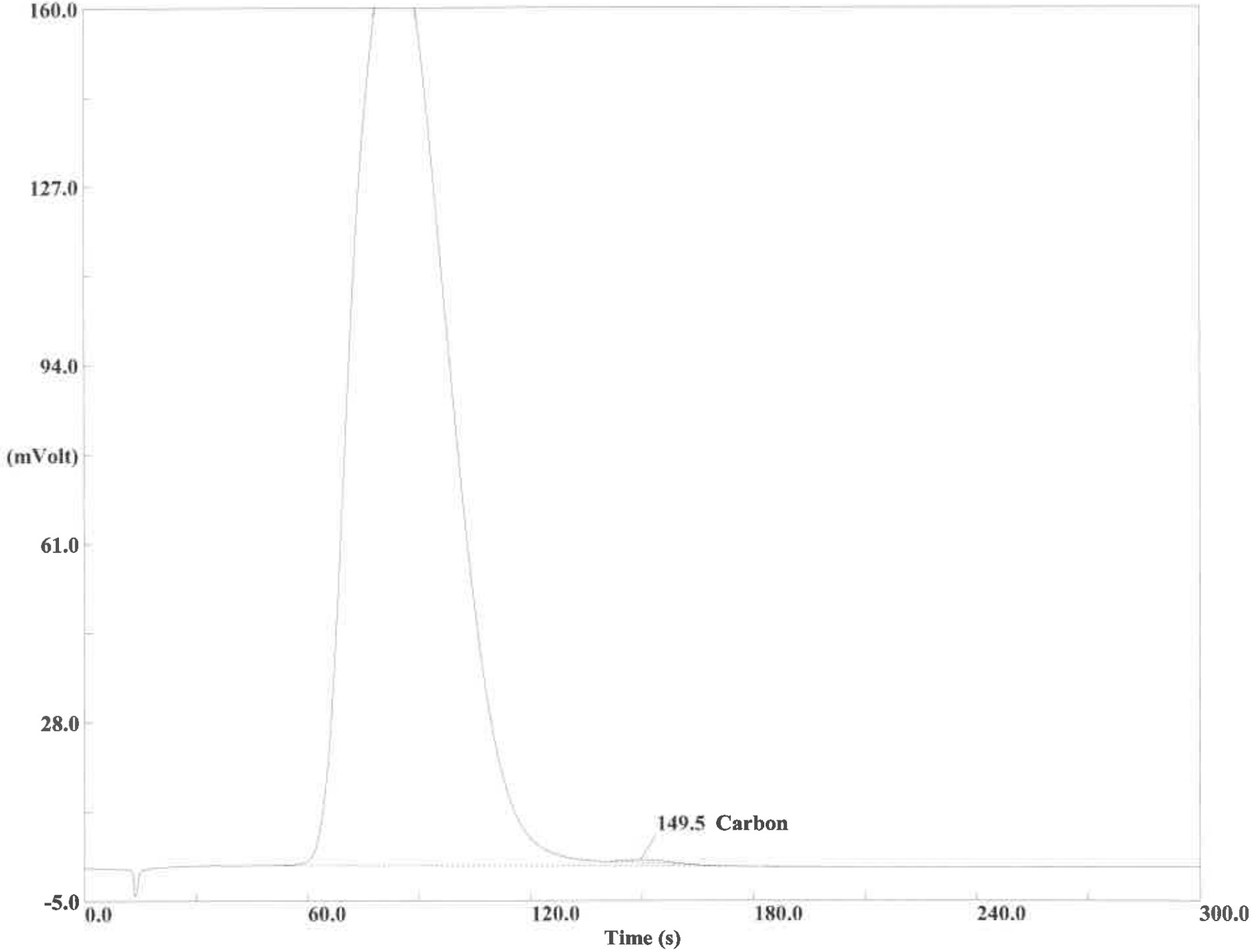
Filename C:\data\January\A091118003.DAT
Sample name :BLANK Analysed :09/11/2018 10:46

Manual Integration on 09/12/18 by Josh Fritsch due to poor baseline draw



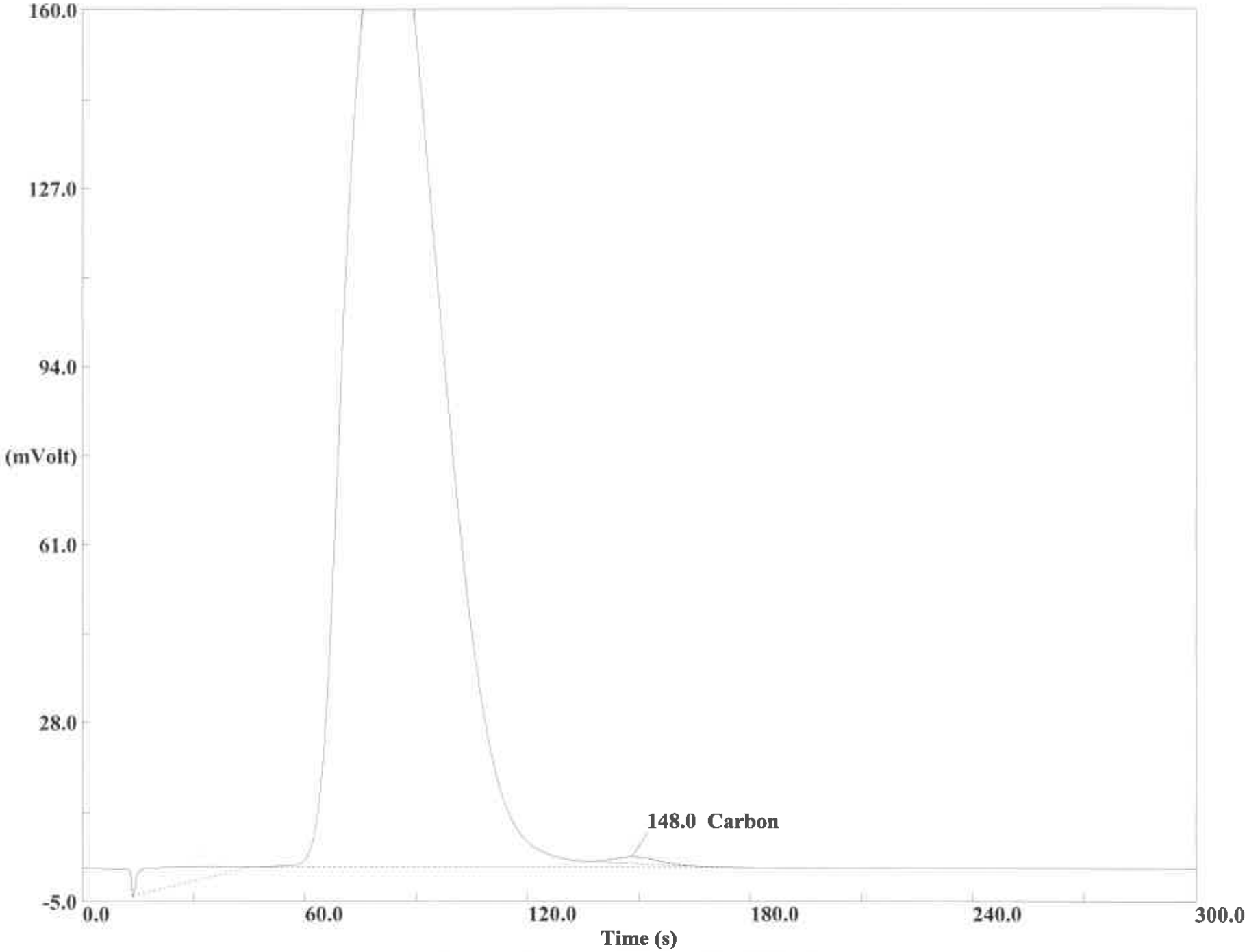
Filename C:\data\January\A091118004.DAT
Sample name :1,000 KHP CT#2854410 Analysed :09/11/2018 10:51

Manual Integration on 09/12/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A091118005.DAT
Sample name :2,500 KHP CT#2854403 Analysed :09/11/2018 10:56

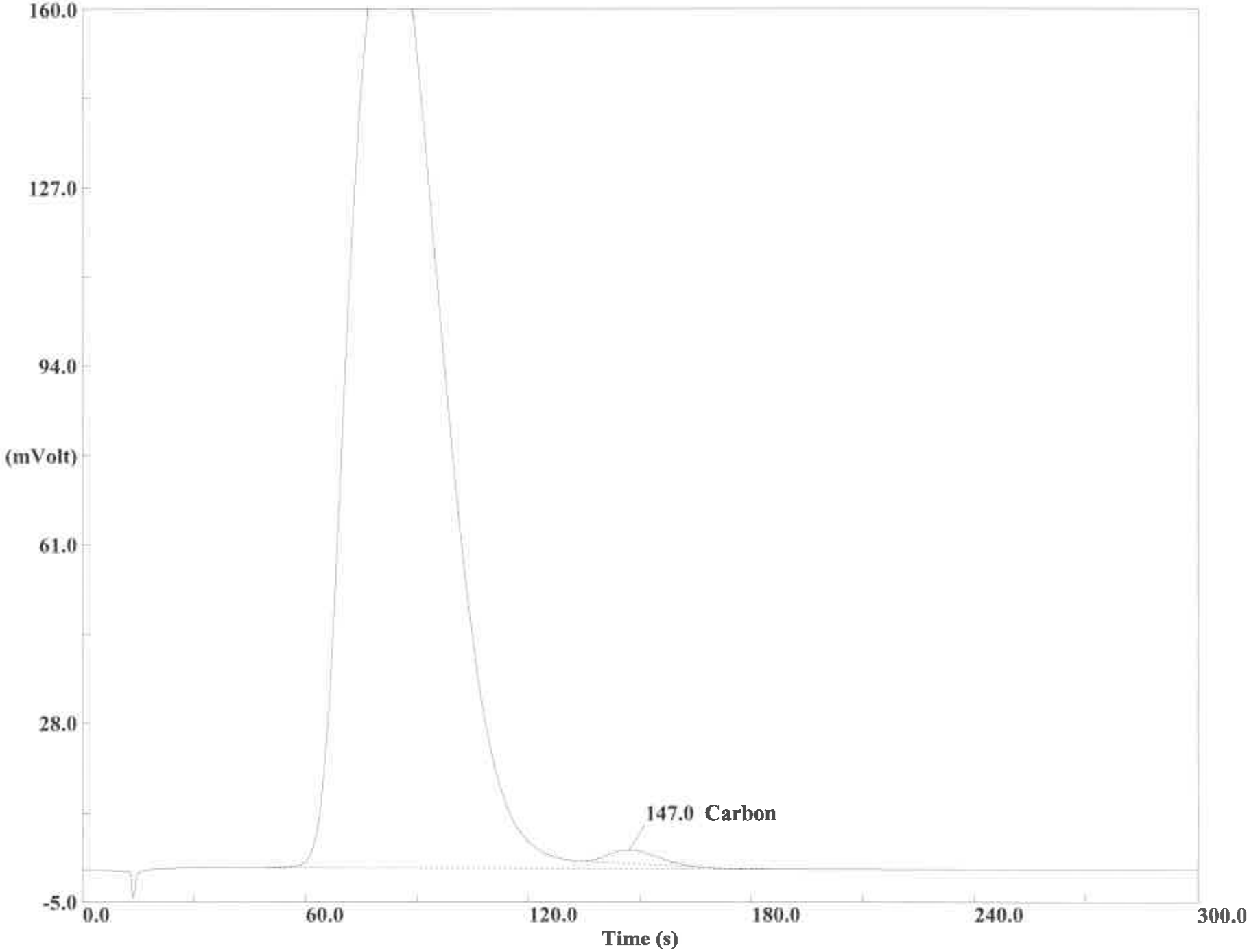
Manual Integration on 09/12/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A091118006.DAT

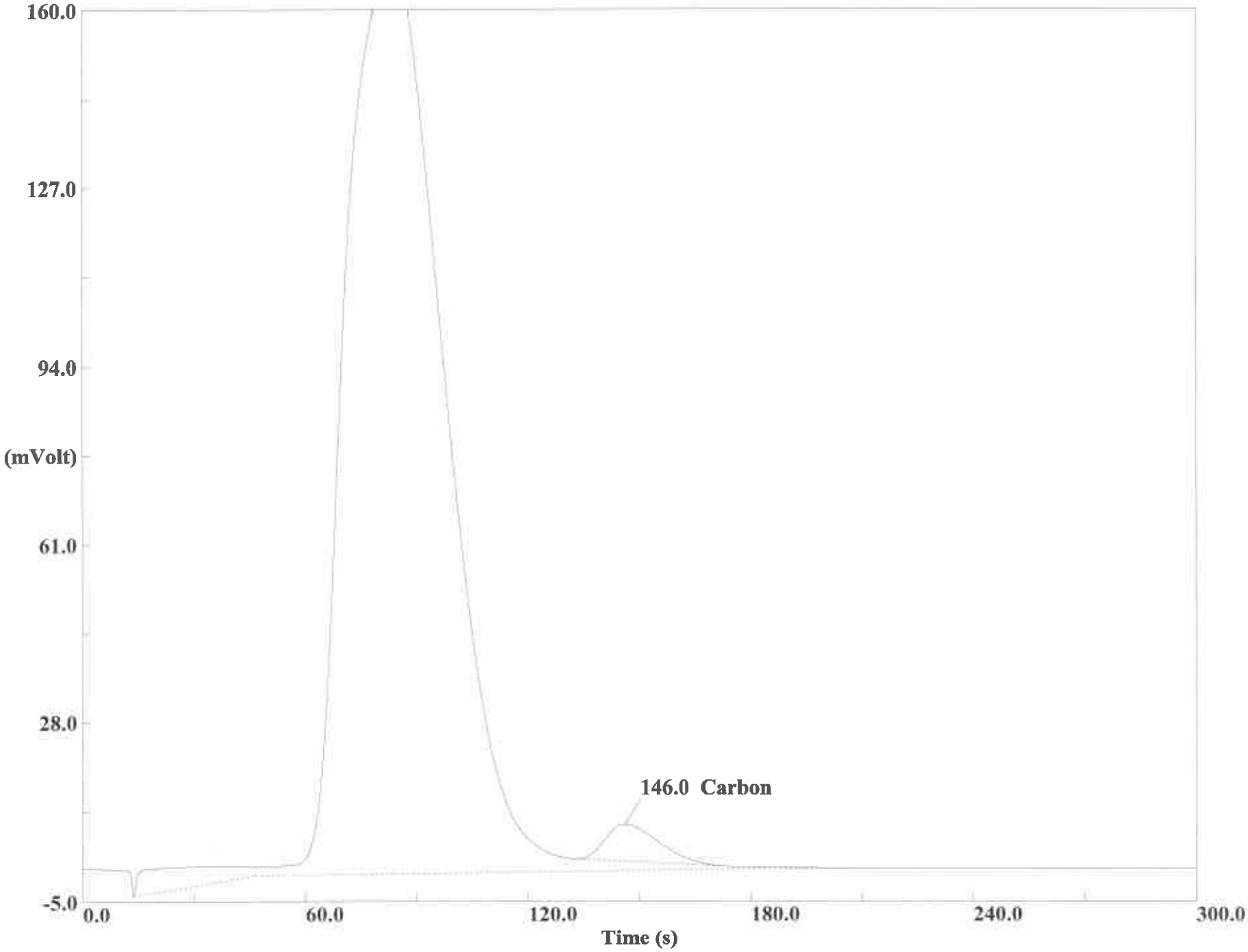
Sample name :5,000 KHP CT#2854403 Analysed :09/11/2018 11:02

Manual Integration on 09/12/18 by Josh Fritsch due to poor baseline draw



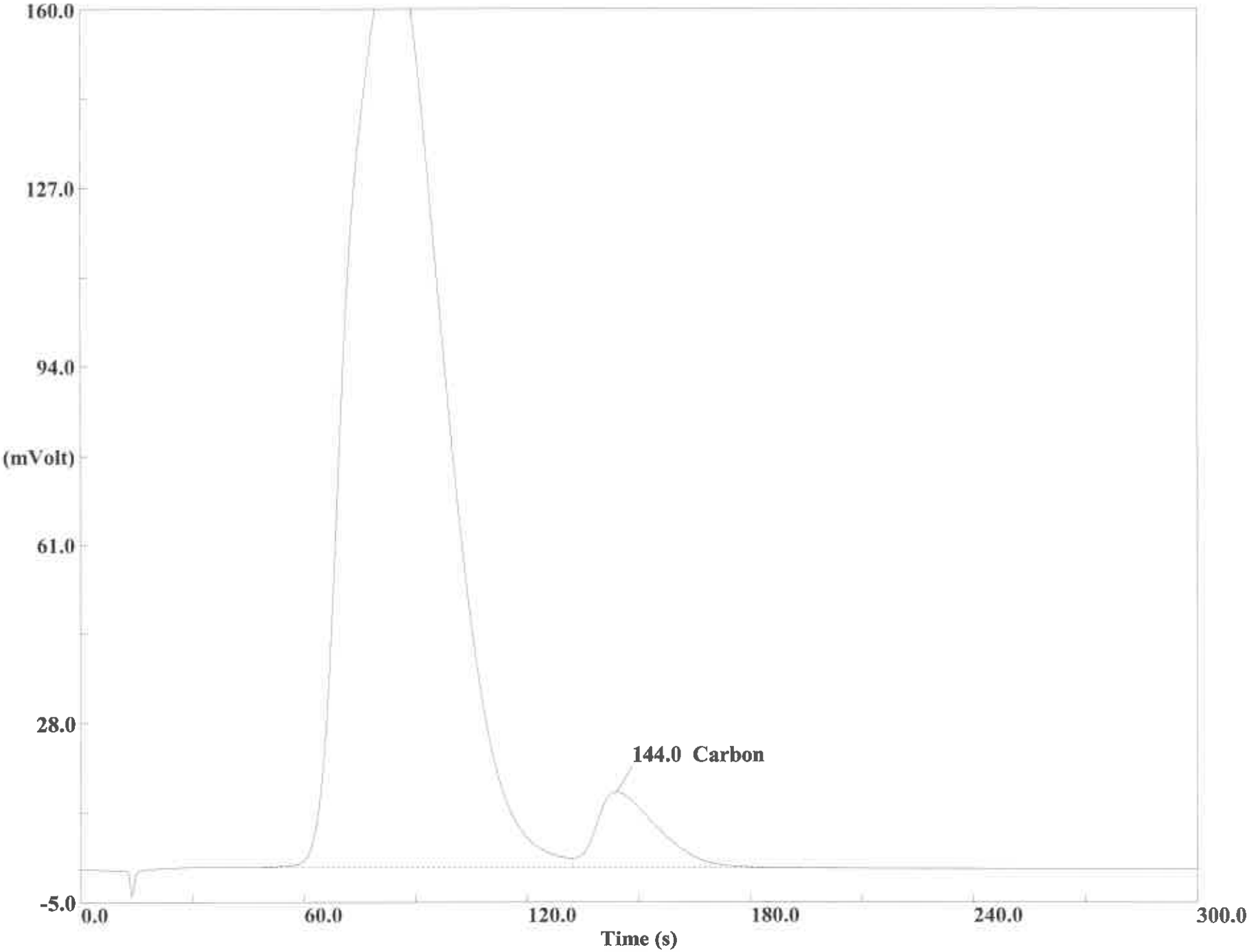
Filename C:\data\January\A091118007.DAT
Sample name :10,000 KHP CT#2854403 Analysed :09/11/2018 11:07

Manual Integration on 09/12/18 by Josh Fritsch due to poor baseline draw



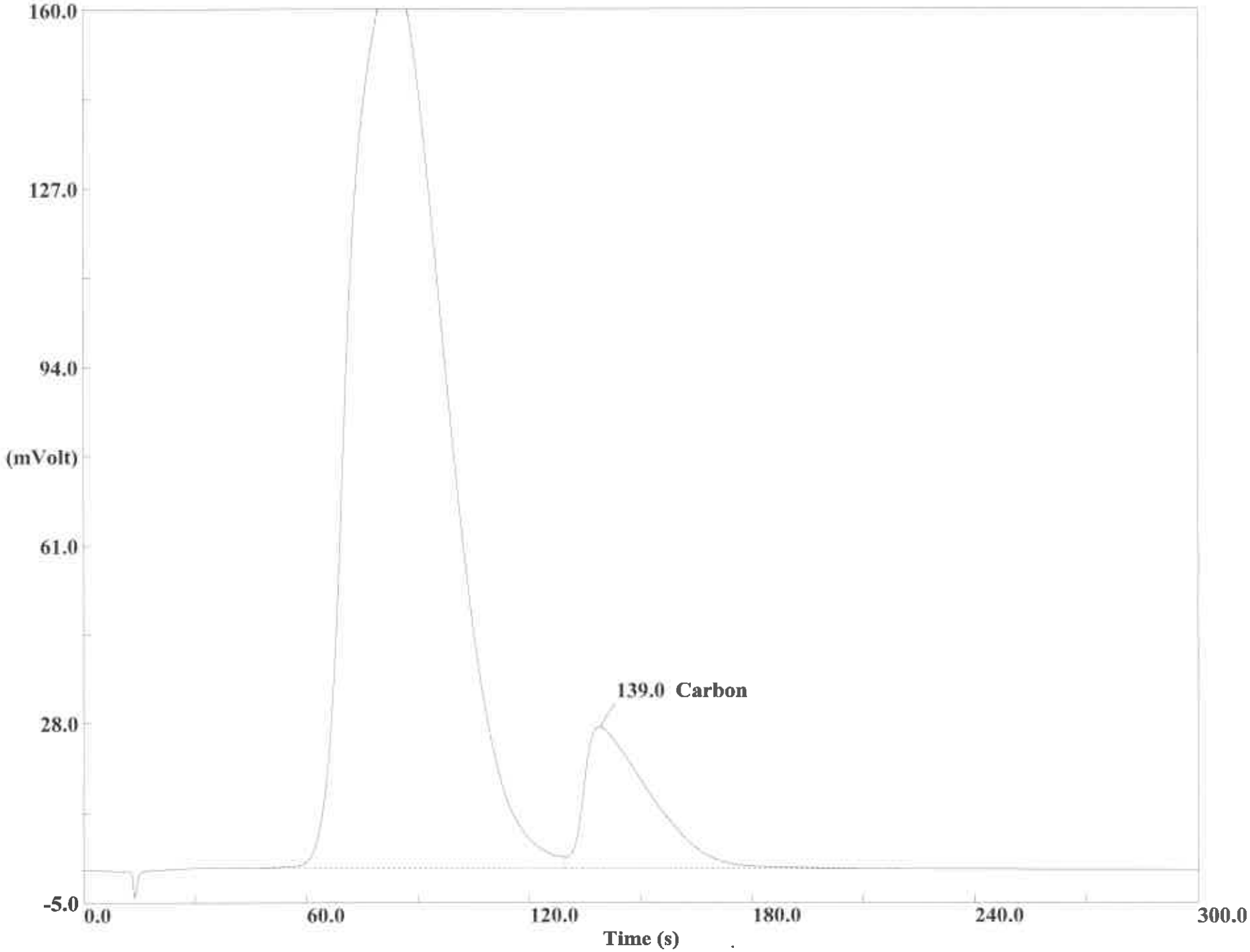
Filename C:\data\January\A091118008.DAT
Sample name :25,000 KHP CT#2854401 Analysed :09/11/2018 11:12

Manual Integration on 09/12/18 by Josh Fritsch due to poor baseline draw



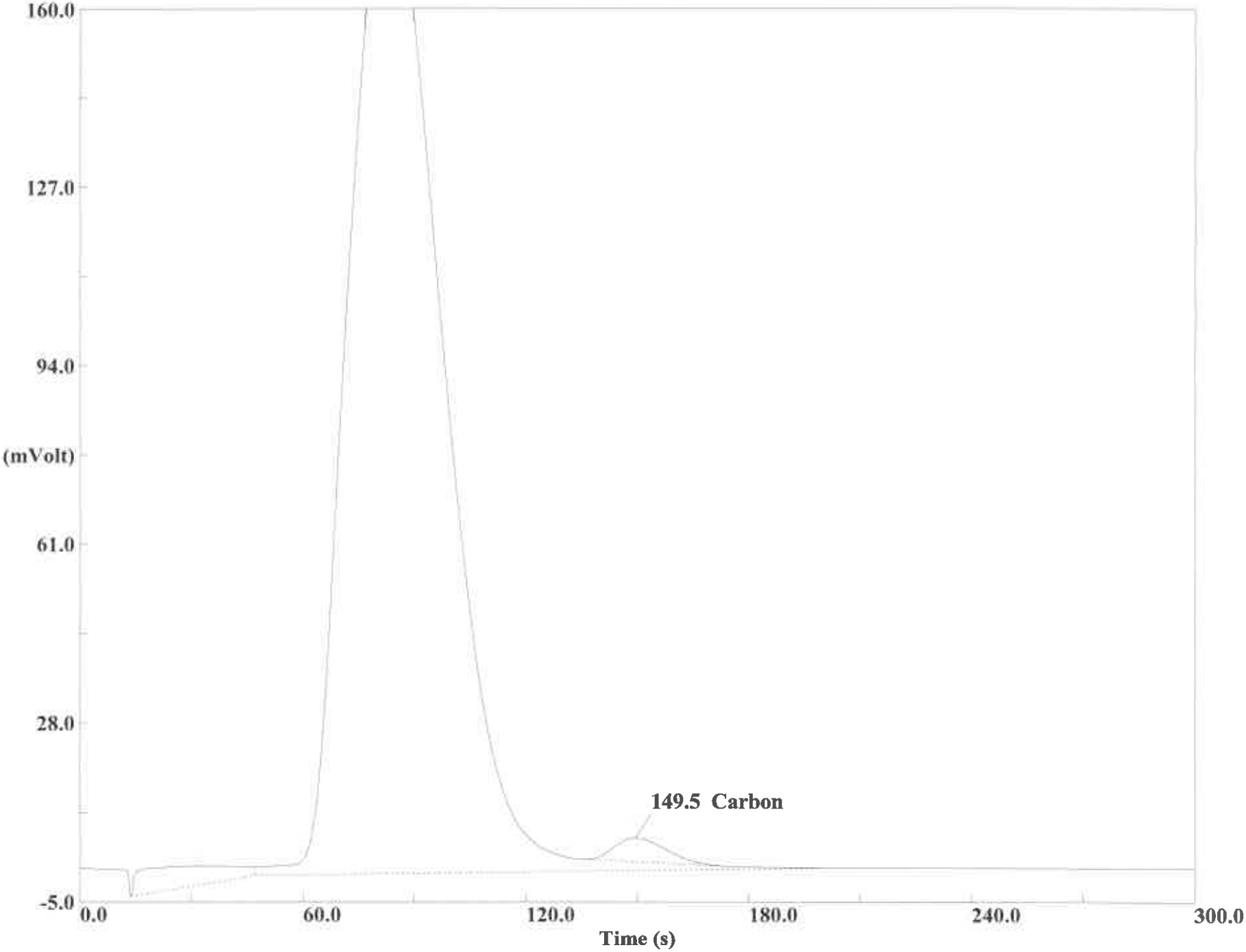
Filename C:\data\January\A091118009.DAT
Sample name :50,000 KHP CT#2854401 Analysed :09/11/2018 11:17

Manual Integration on 09/12/18 by Josh Fritsch due to poor baseline draw



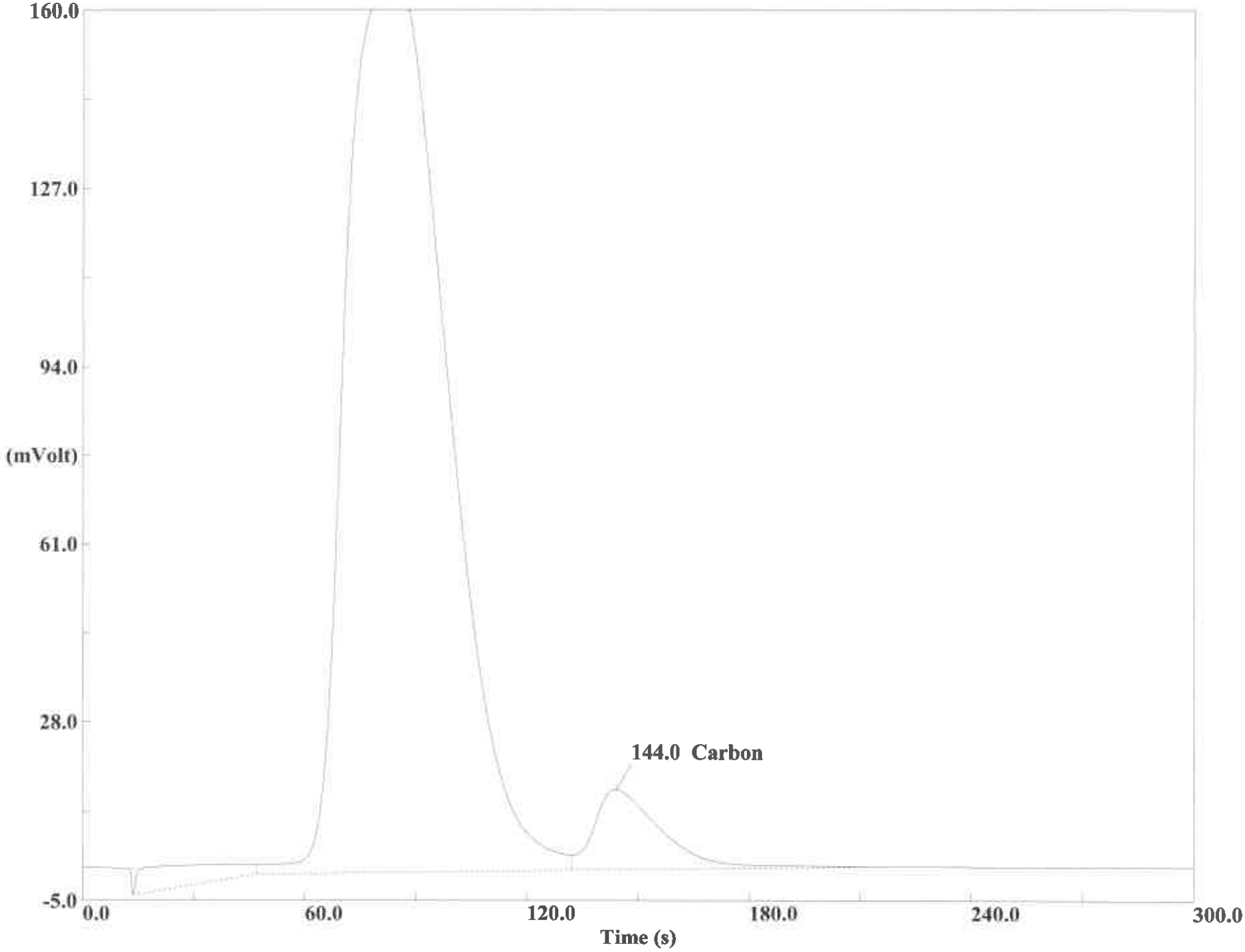
Filename C:\data\January\A091118010.DAT
Sample name :100,000 KHP CT#2854401 Analysed :09/11/2018 11:22

Manual Integration on 09/12/18 by Josh Fritsch due to poor baseline draw



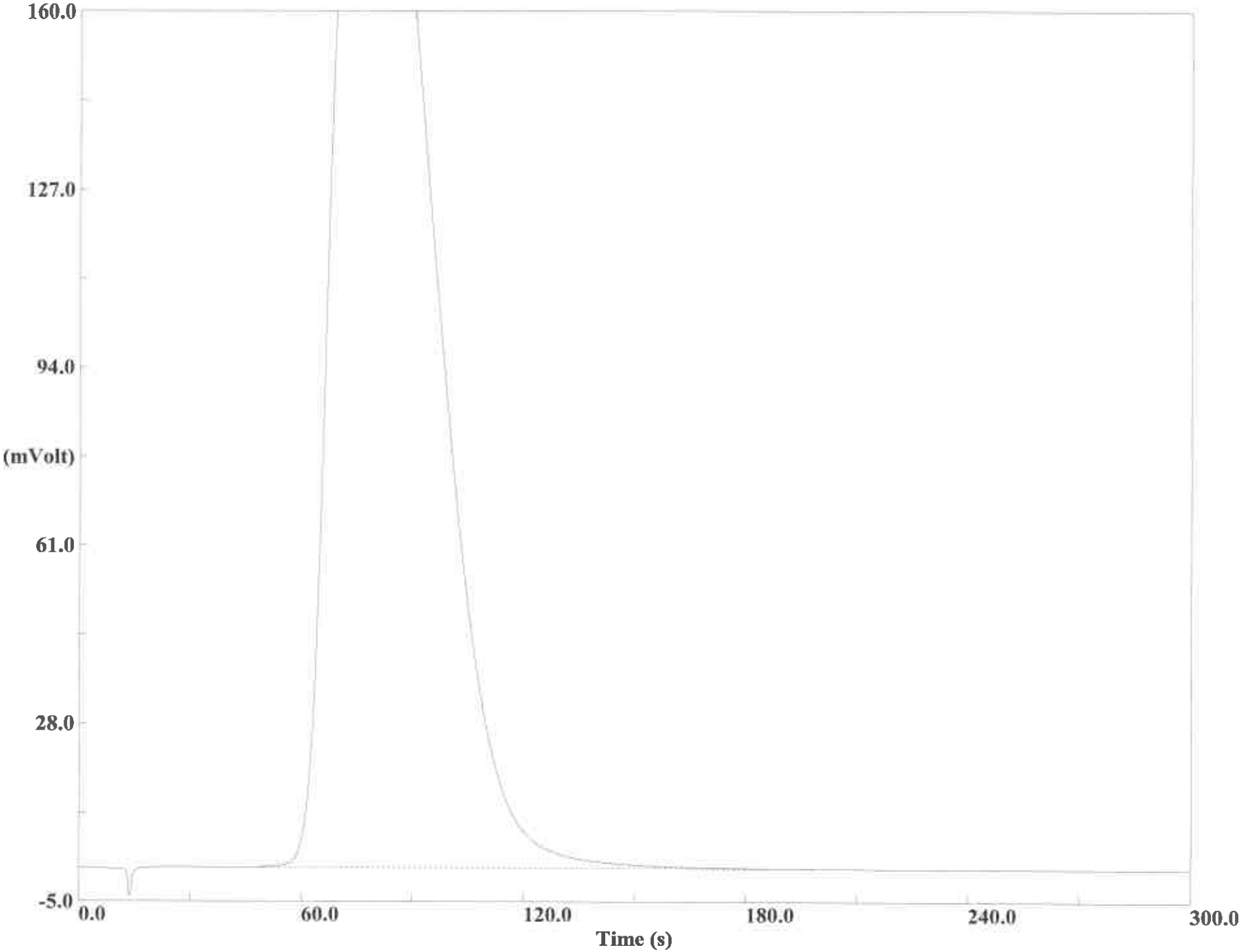
Filename C:\data\January\A091118011.DAT
Sample name :ICV 37,760 KHP CT#2809390 Analysed :09/11/2018 11:27

Manual Integration on 09/12/18 by Josh Fritsch due to poor baseline draw



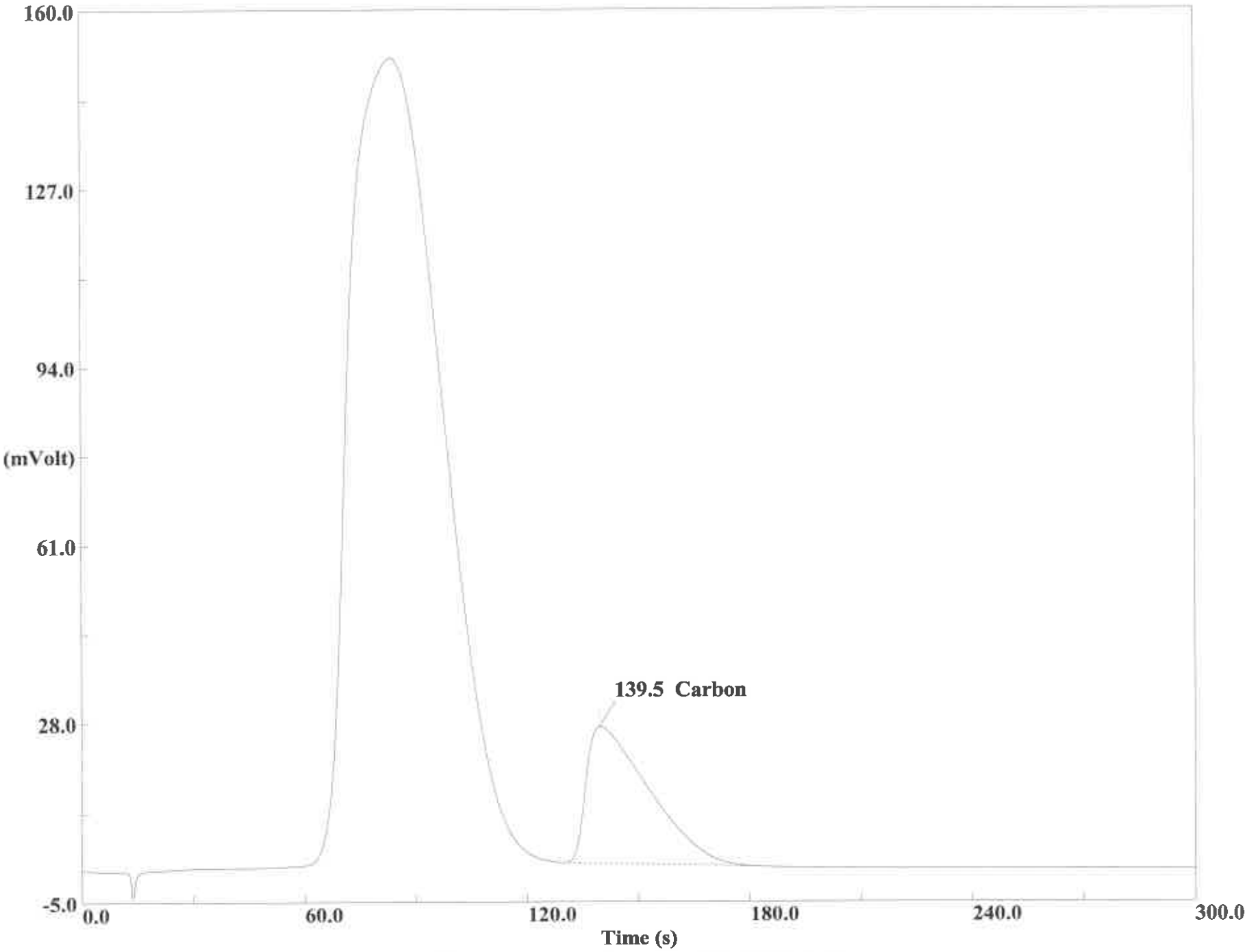
Filename C:\data\January\A091118012.DAT
Sample name :CCV Analysed :09/11/2018 11:32

Manual Integration on 09/12/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A091118013.DAT
Sample name :CCB Analysed :09/11/2018 11:37

Manual Integration on 09/12/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A091118001.DAT
Sample name :BYPASS Analysed :09/11/2018 10:36

Eager 300 Report

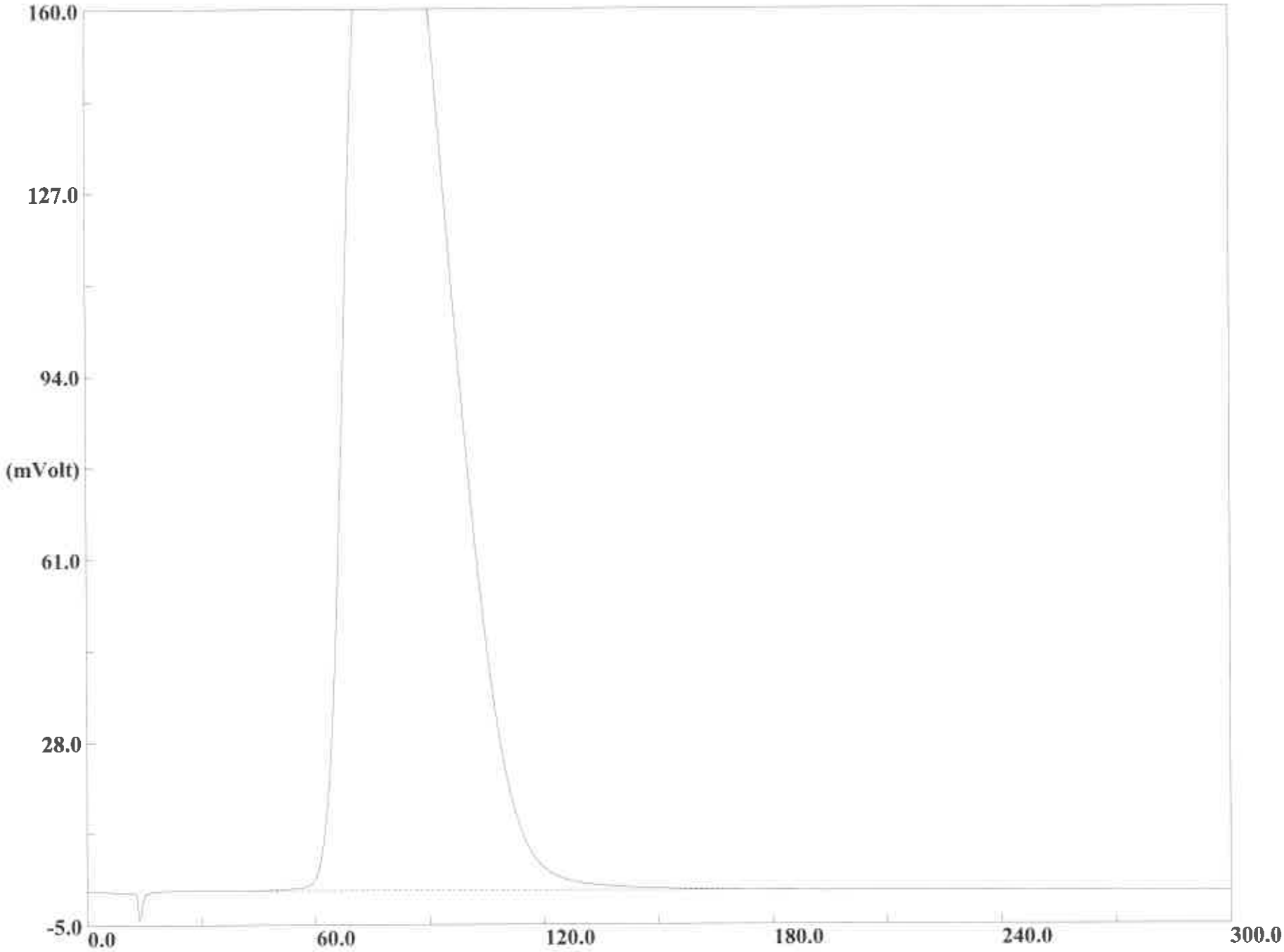
Page: 1 Sample: BYPASS (A091118001)

Method Name : Lloyd Kahn
Method File : C:\data\January\091118ICAL.mth
Chromatogram : A091118001
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 09/11/2018 10:36 Printed : 9/12/2018 10:11
Sample ID : BYPASS (# 1)
Instrument N. : Instrument #1
Analysis Type : By-Pass (Area) Sample weight :---

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio
Carbon	0.0000	140	4892907	mi	1.000000

Manual Integration on 09/12/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A091118002.DAT
Sample name :BLANK Analysed :09/11/2018 10:41

Eager 300 Report

Page: 1 Sample: BLANK (A091118002)

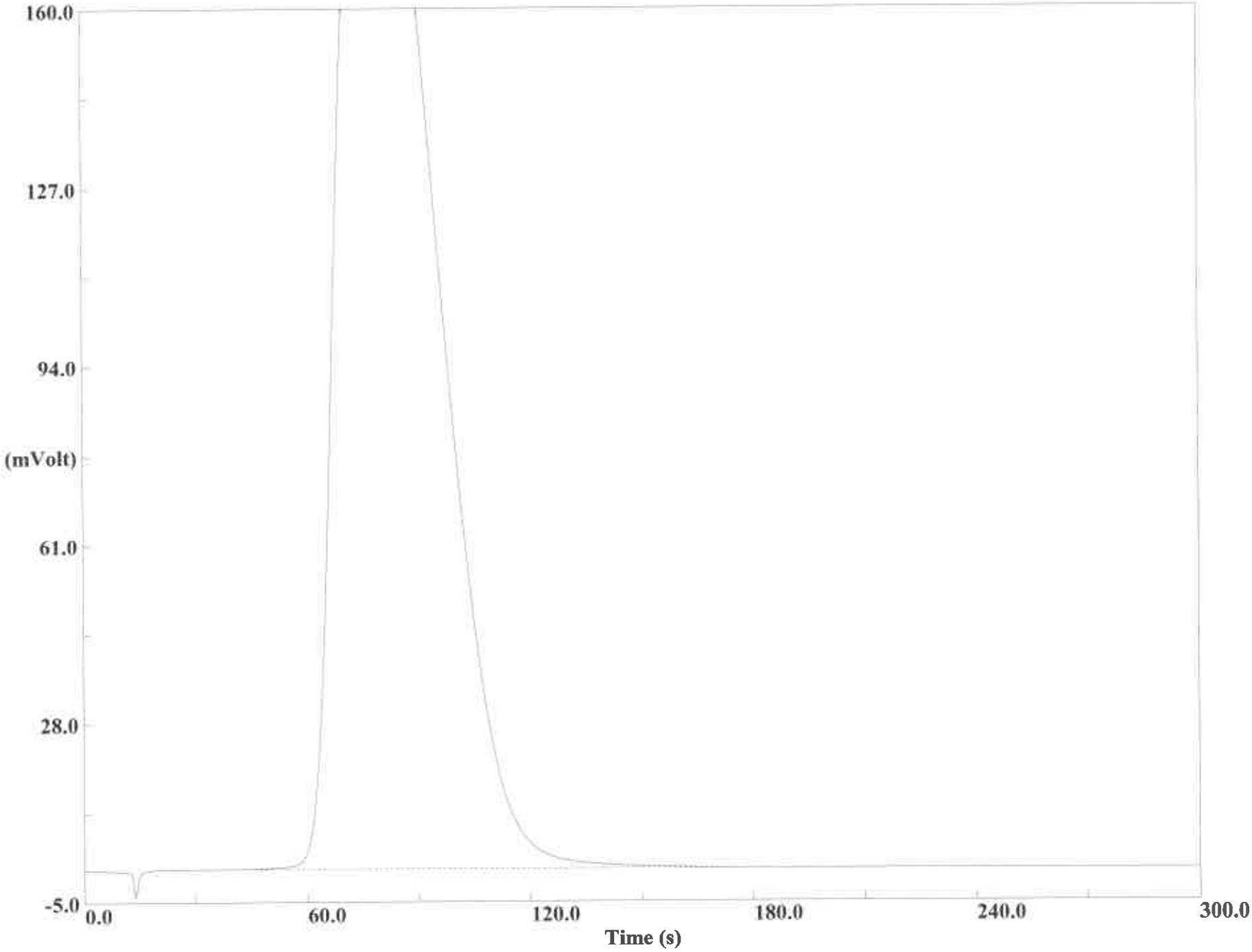
Method Name : Lloyd Kahn
Method File : C:\data\January\091118ICAL.mth
Chromatogram : A091118002
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 09/11/2018 10:41 Printed : 9/12/2018 10:11
Sample ID : BLANK (# 2)
Instrument N. : Instrument #1
Analysis Type : Blank (Area) Sample weight :---

Calib. method : using 'Least Squares to Linear fit'

!!! Warning missing one or more peaks.

Element Name	%	Ret.Time	Area	BC	Area ratio

Manual Integration on 09/12/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A091118003.DAT
Sample name :BLANK Analysed :09/11/2018 10:46

Eager 300 Report

Page: 1 Sample: BLANK (A091118003)

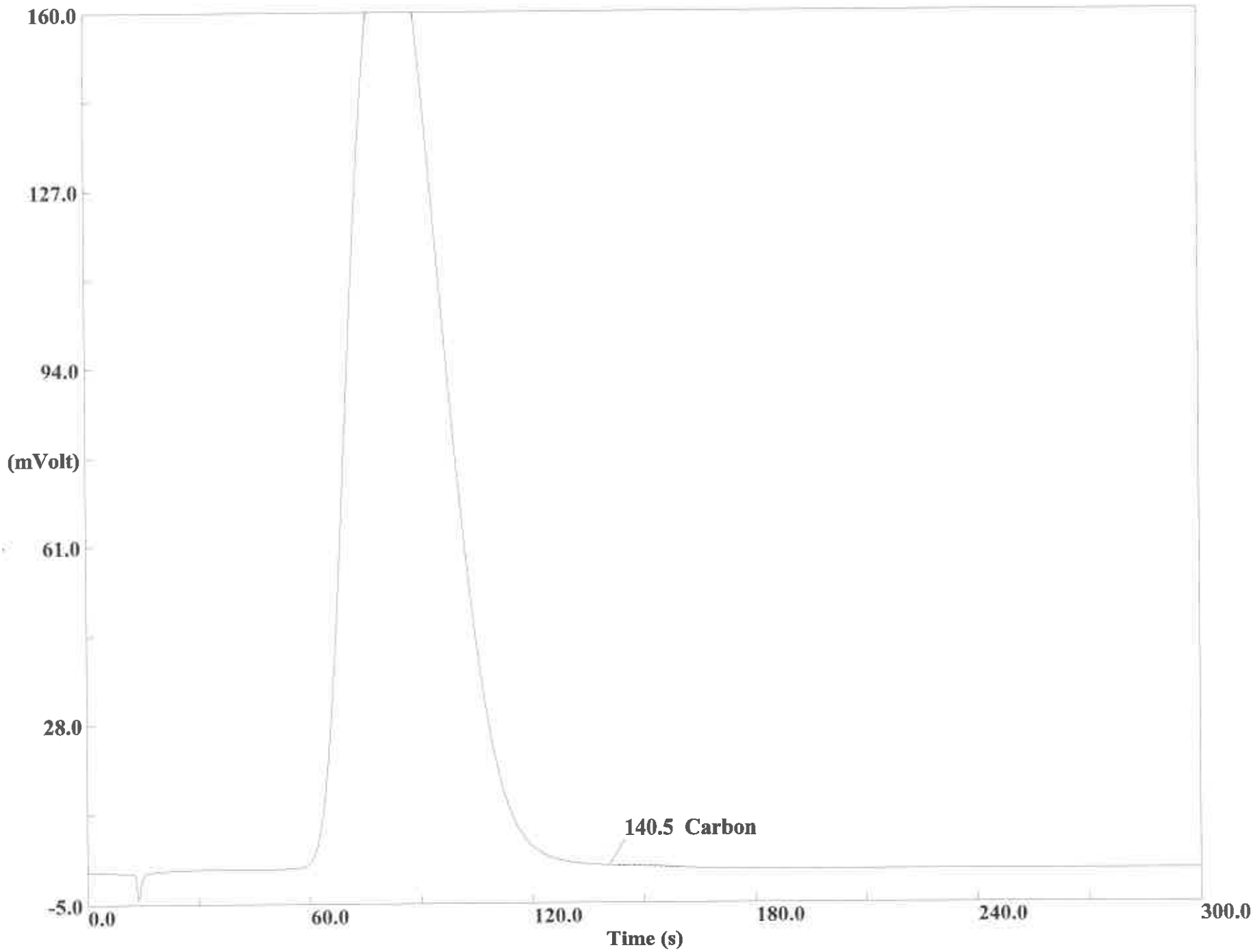
Method Name : Lloyd Kahn
Method File : C:\data\January\091118ICAL.mth
Chromatogram : A091118003
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 09/11/2018 10:46 Printed : 9/12/2018 10:11
Sample ID : BLANK (# 3)
Instrument N. : Instrument #1
Analysis Type : Blank (Area) Sample weight :---

Calib. method : using 'Least Squares to Linear fit'

!!! Warning missing one or more peaks.

Element Name	%	Ret.Time	Area	BC	Area ratio

Manual Integration on 09/12/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A091118004.DAT
Sample name :1,000 KHP CT#2854410 Analysed :09/11/2018 10:51

Eager 300 Report

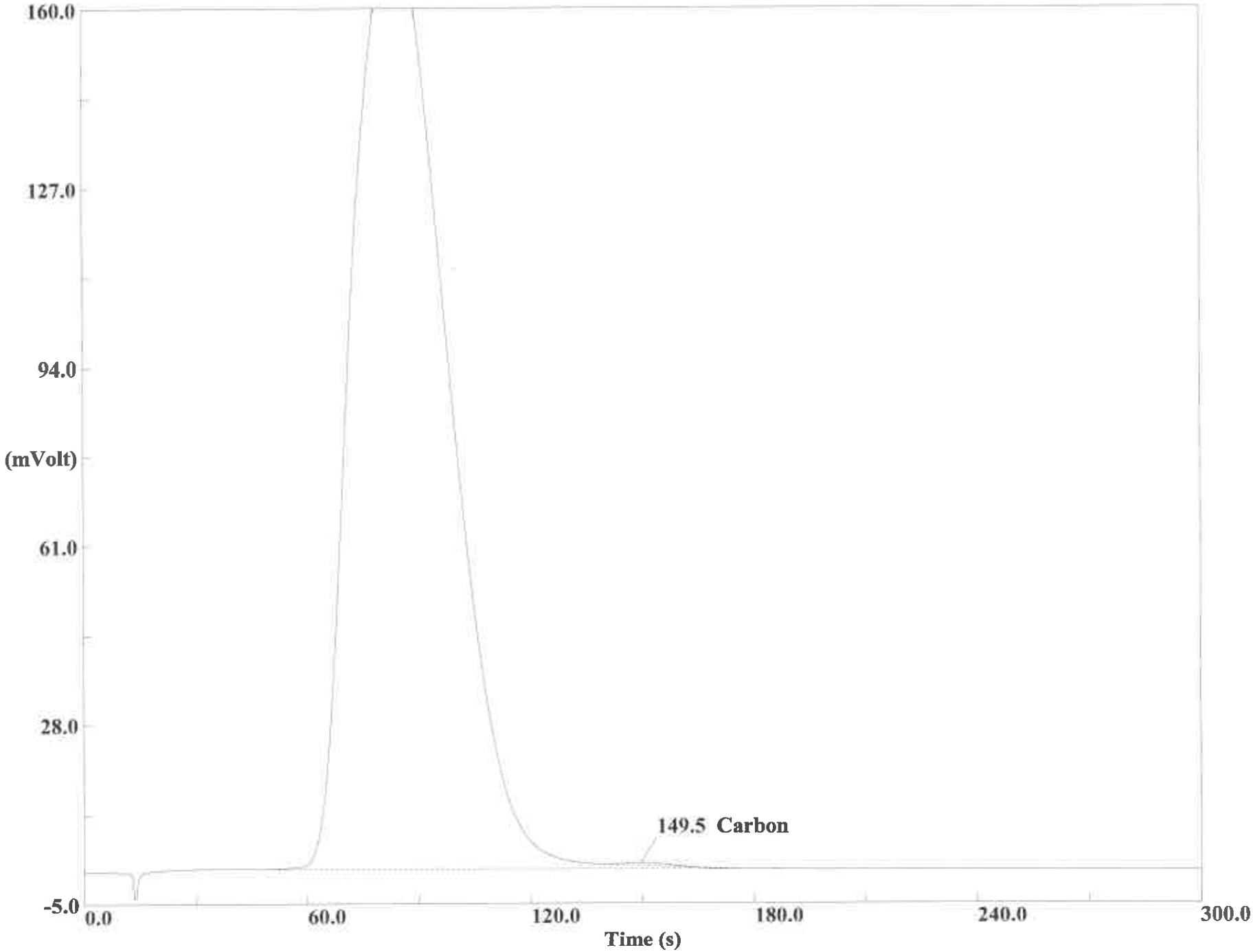
Page: 1 Sample: 1,000 KHP CT#2854410 (A091118004)

Method Name : Lloyd Kahn
Method File : C:\data\January\091118ICAL.mth
Chromatogram : A091118004
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 09/11/2018 10:51 Printed : 9/12/2018 10:11
Sample ID : 1,000 KHP CT#2854410 (# 4)
Instrument N. : Instrument #1
Analysis Type : Calibration (Area) Sample weight : 200

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.0100	141	19332	mi	1.000000	

Manual Integration on 09/12/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A091118005.DAT
Sample name :2,500 KHP CT#2854403 Analysed :09/11/2018 10:56

Eager 300 Report

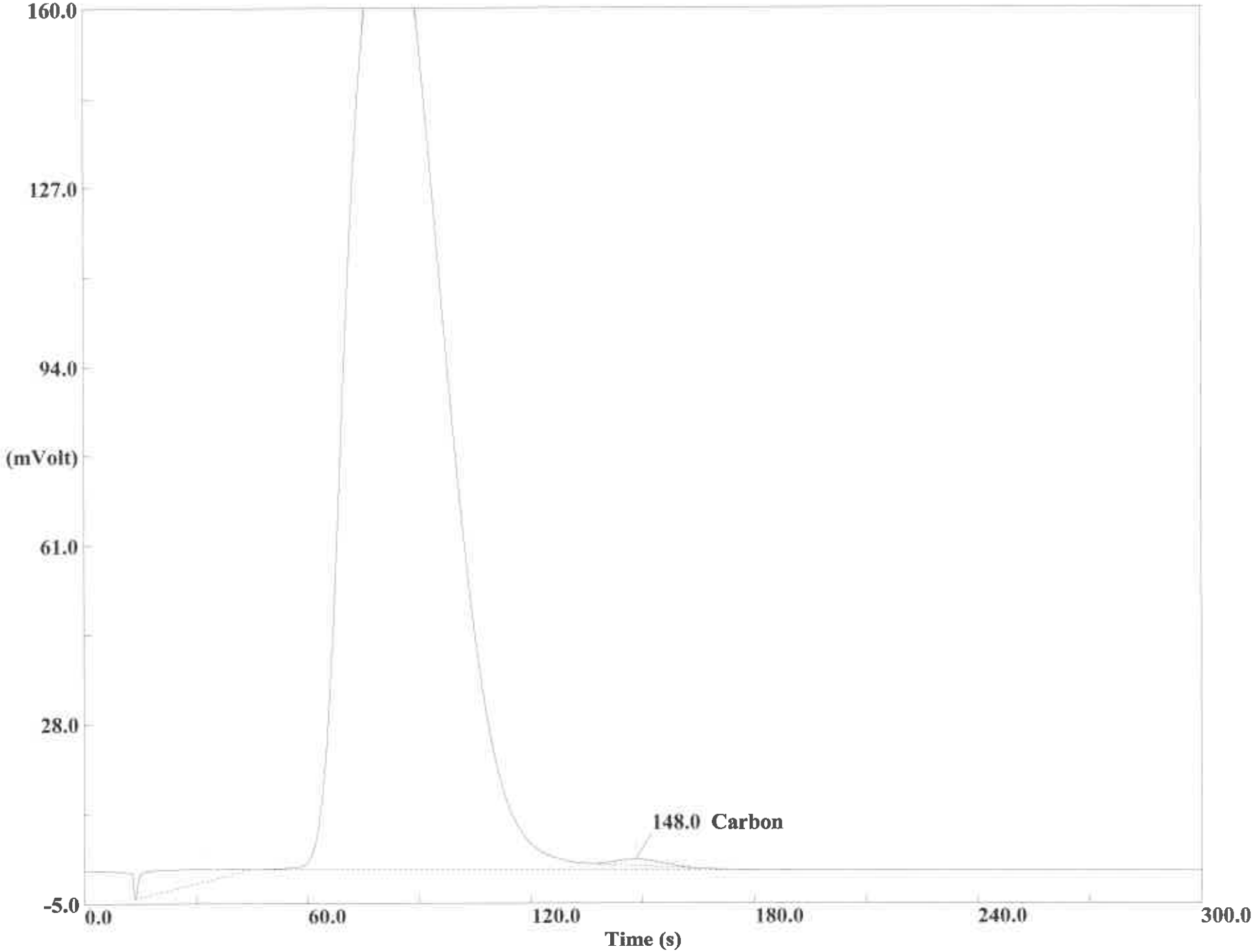
Page: 1 Sample: 2,500 KHP CT#2854403 (A091118005)

Method Name : Lloyd Kahn
Method File : C:\data\January\091118ICAL.mth
Chromatogram : A091118005
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 09/11/2018 10:56 Printed : 9/12/2018 10:12
Sample ID : 2,500 KHP CT#2854403 (# 5)
Instrument N. : Instrument #1
Analysis Type : Calibration (Area) Sample weight : 50

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.1000	150	70102	CR	1.000000	

Manual Integration on 09/12/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A091118006.DAT
Sample name :5,000 KHP CT#2854403 Analysed :09/11/2018 11:02

Eager 300 Report

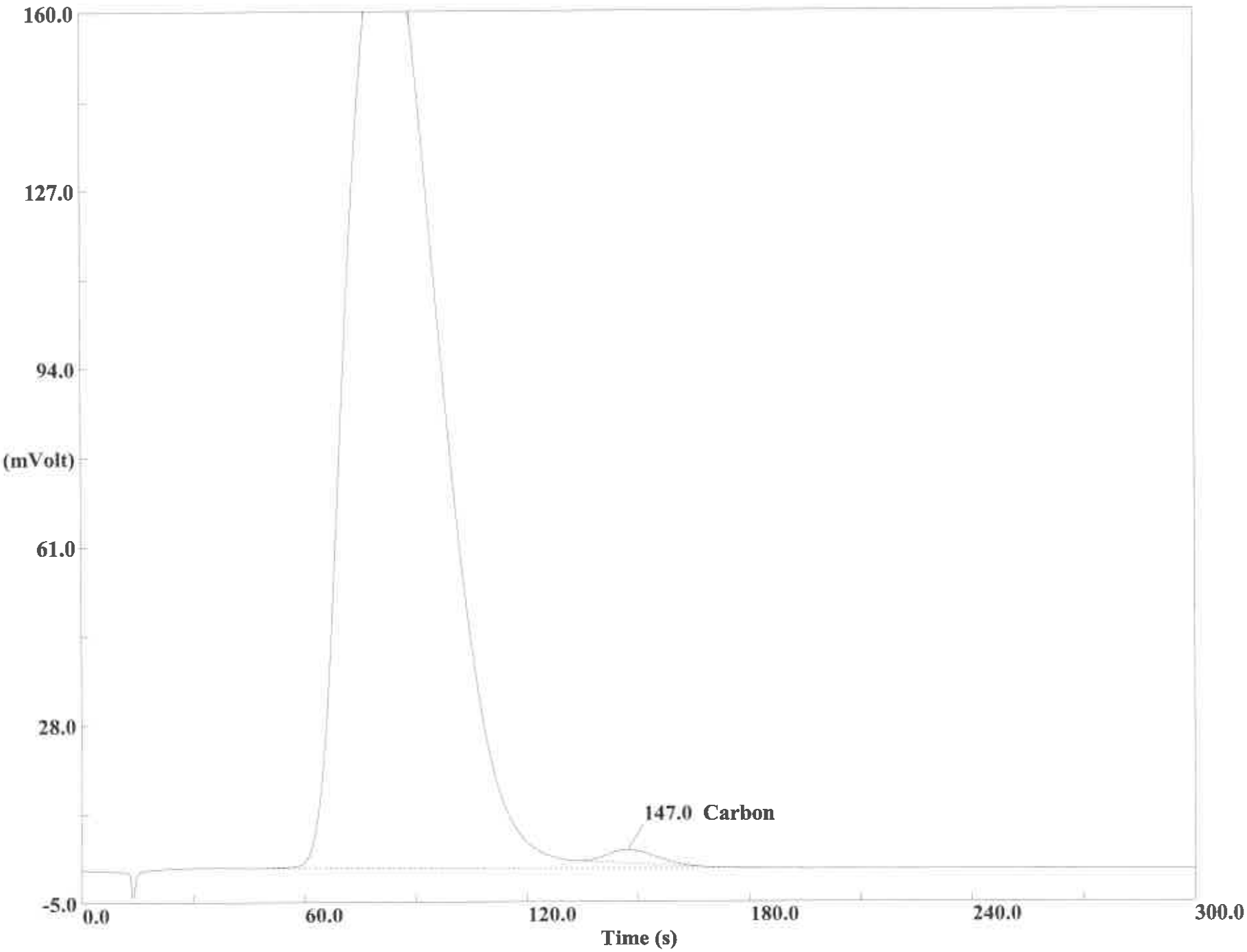
Page: 1 Sample: 5,000 KHP CT#2854403 (A091118006)

Method Name : Lloyd Kahn
Method File : C:\data\January\091118ICAL.mth
Chromatogram : A091118006
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 09/11/2018 11:02 Printed : 9/12/2018 10:12
Sample ID : 5,000 KHP CT#2854403 (# 6)
Instrument N. : Instrument #1
Analysis Type : Calibration (Area) Sample weight : 100

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.1000	148	164415	CR	1.000000	

Manual Integration on 09/12/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A091118007.DAT
Sample name :10,000 KHP CT#2854403 Analysed :09/11/2018 11:07

Eager 300 Report

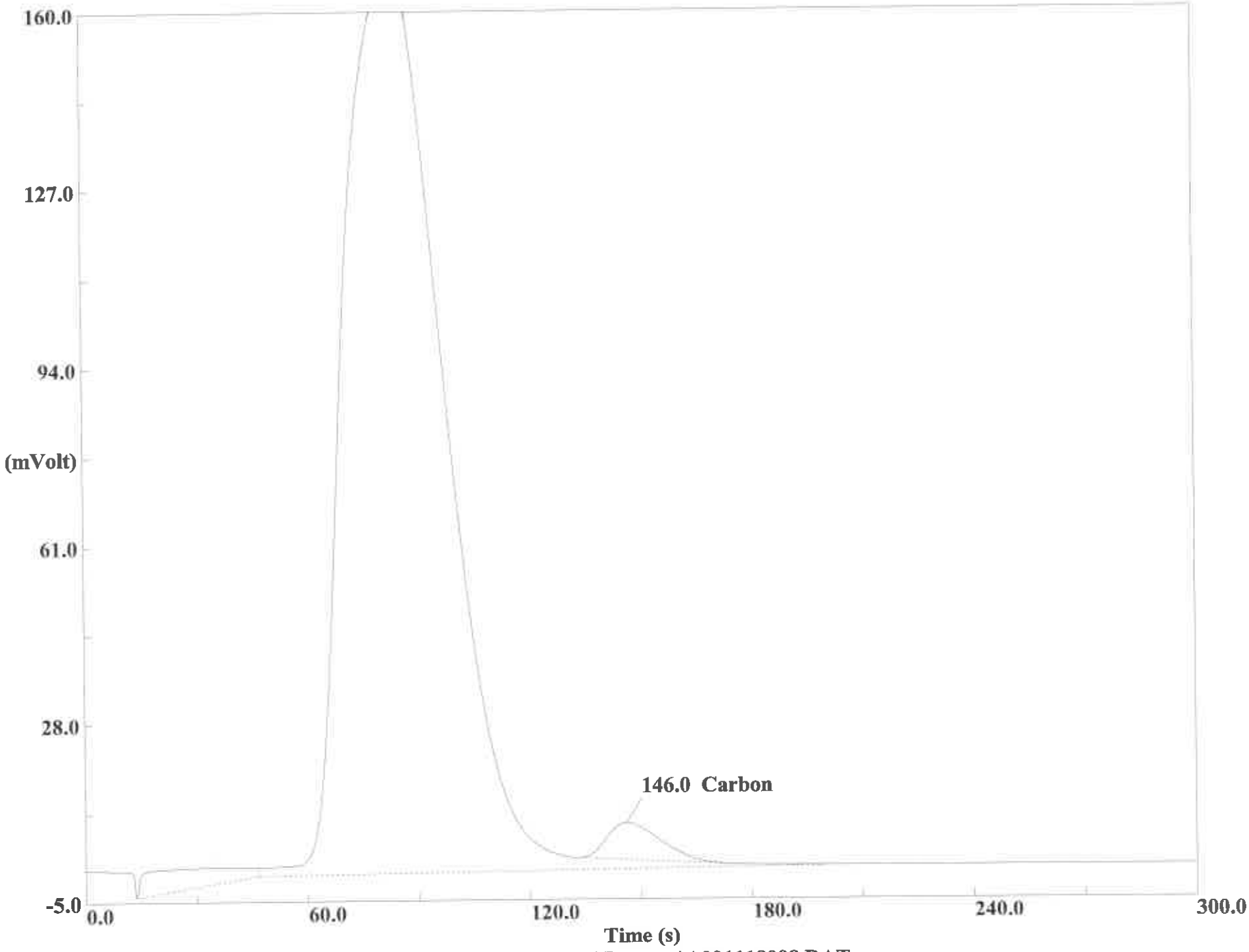
Page: 1 Sample: 10,000 KHP CT#2854403 (A091118007)

Method Name : Lloyd Kahn
Method File : C:\data\January\091118ICAL.mth
Chromatogram : A091118007
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 09/11/2018 11:07 Printed : 9/12/2018 10:12
Sample ID : 10,000 KHP CT#2854403 (# 7)
Instrument N. : Instrument #1
Analysis Type : Calibration (Area) Sample weight : 200

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.1000	147	377400	CR	1.000000	

Manual Integration on 09/12/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A091118008.DAT
Sample name :25,000 KHP CT#2854401 Analysed :09/11/2018 11:12

Eager 300 Report

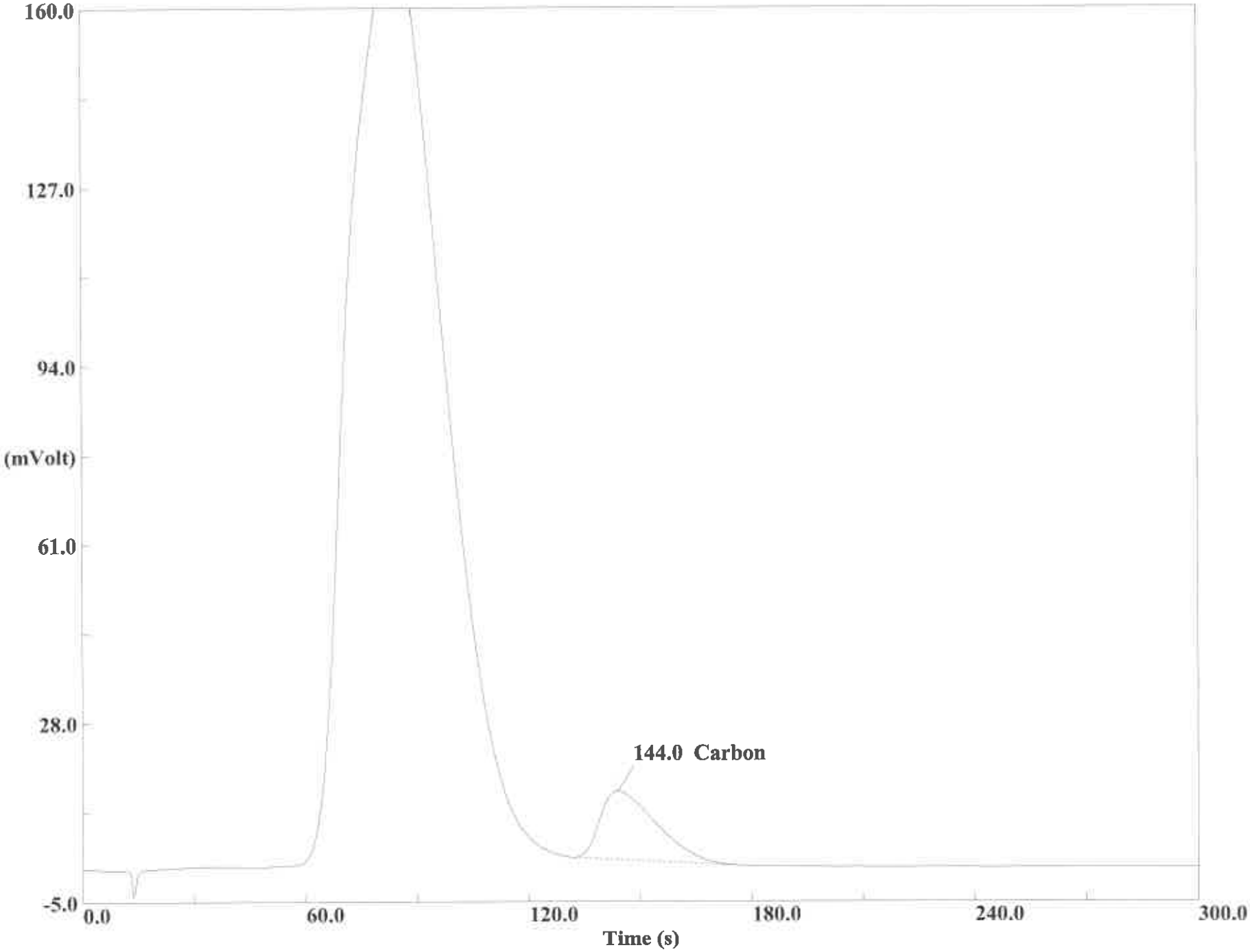
Page: 1 Sample: 25,000 KHP CT#2854401 (A091118008)

Method Name : Lloyd Kahn
Method File : C:\data\January\091118ICAL.mth
Chromatogram : A091118008
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 09/11/2018 11:12 Printed : 9/12/2018 10:12
Sample ID : 25,000 KHP CT#2854401 (# 8)
Instrument N. : Instrument #1
Analysis Type : Calibration (Area) Sample weight : 50

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	1.0000	146	1122327	CR	1.000000	

Manual Integration on 09/12/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A091118009.DAT
Sample name :50,000 KHP CT#2854401 Analysed :09/11/2018 11:17

Eager 300 Report

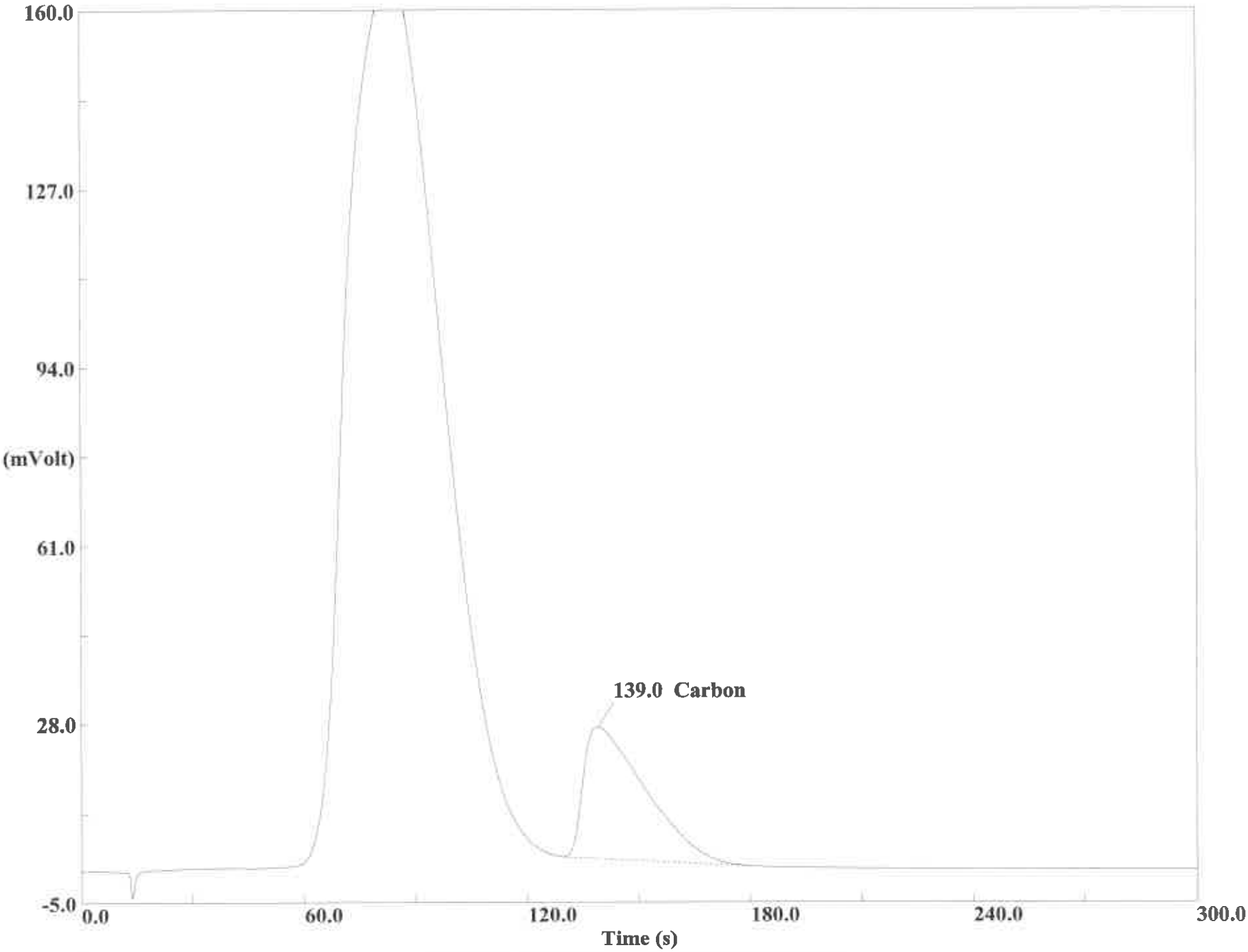
Page: 1 Sample: 50,000 KHP CT#2854401 (A091118009)

Method Name : Lloyd Kahn
Method File : C:\data\January\091118ICAL.mth
Chromatogram : A091118009
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 09/11/2018 11:17 Printed : 9/12/2018 10:12
Sample ID : 50,000 KHP CT#2854401 (# 9)
Instrument N. : Instrument #1
Analysis Type : Calibration (Area) Sample weight : 100

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	1.0000	144	2207077	mi	1.000000	

Manual Integration on 09/12/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A091118010.DAT
Sample name :100,000 KHP CT#2854401 Analysed :09/11/2018 11:22

Eager 300 Report

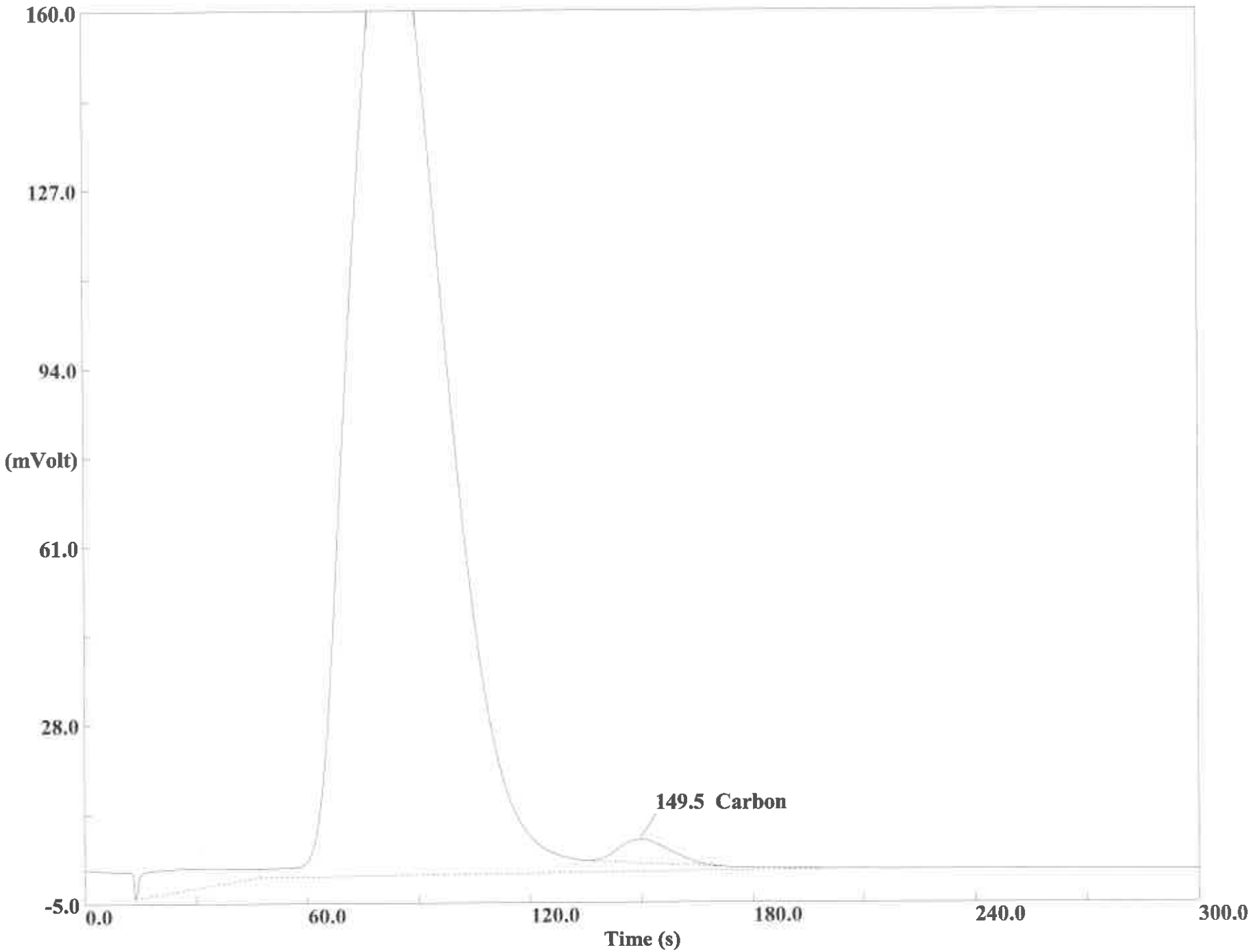
Page: 1 Sample: 100,000 KHP CT#2854401 (A091118010)

Method Name : Lloyd Kahn
Method File : C:\data\January\091118ICAL.mth
Chromatogram : A091118010
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 09/11/2018 11:22 Printed : 9/12/2018 10:12
Sample ID : 100,000 KHP CT#2854401 (# 10)
Instrument N. : Instrument #1
Analysis Type : Calibration (Area) Sample weight : 200

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	1.0000	139	4635421	mi	1.000000	

Manual Integration on 09/12/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A091118011.DAT
Sample name :ICV 37,760 KHP CT#2809390 Analysed :09/11/2018 11:27

Eager 300 Report

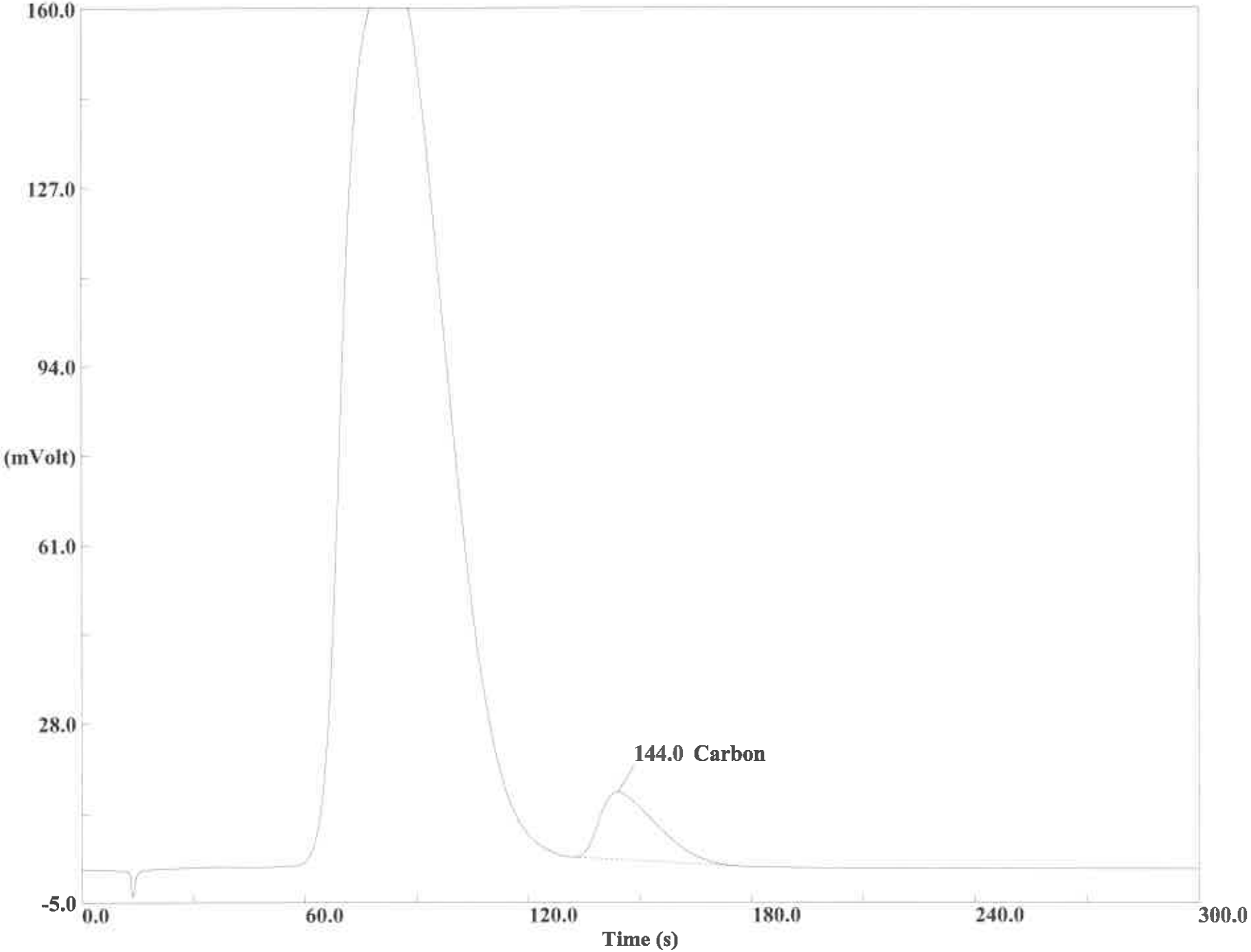
Page: 1 Sample: ICV 37,760 KHP CT#2809390 (A091118011)

Method Name : Lloyd Kahn
Method File : C:\data\January\091118ICAL.mth
Chromatogram : A091118011
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 09/11/2018 11:27 Printed : 9/12/2018 10:12
Sample ID : ICV 37,760 KHP CT#2809390 (# 11)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 10

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	3.2650	150	699735	CR	1.000000	

Manual Integration on 09/12/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A091118012.DAT
Sample name :CCV Analysed :09/11/2018 11:32

Eager 300 Report

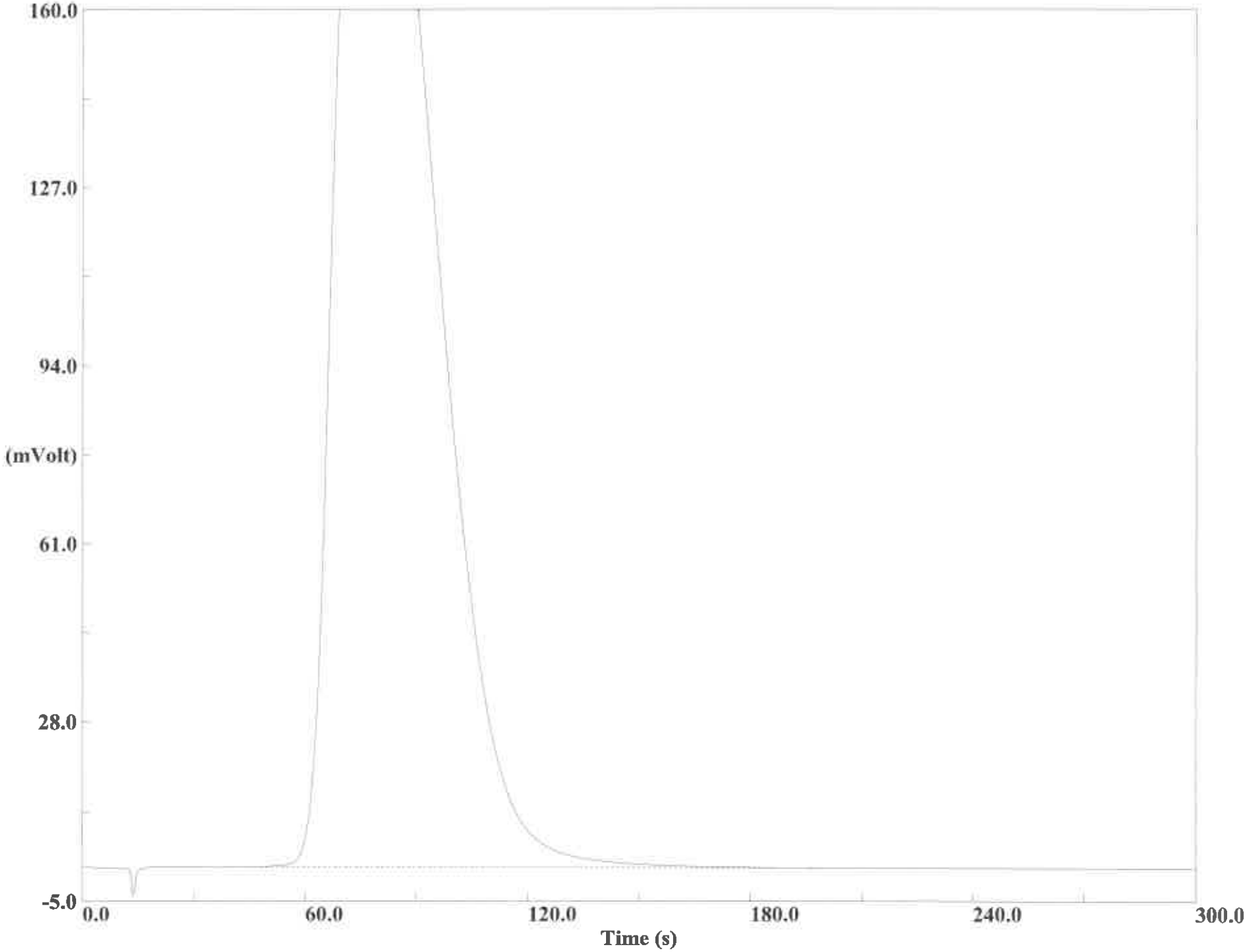
Page: 1 Sample: CCV (A091118012)

Method Name : Lloyd Kahn
Method File : C:\data\January\091118ICAL.mth
Chromatogram : A091118012
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 09/11/2018 11:32 Printed : 9/12/2018 10:12
Sample ID : CCV (# 12)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 100

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.9747	144	2212597	mi	1.000000	

Manual Integration on 09/12/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A091118013.DAT
Sample name :CCB Analysed :09/11/2018 11:37

Eager 300 Report

Page: 1 Sample: CCB (A091118013)

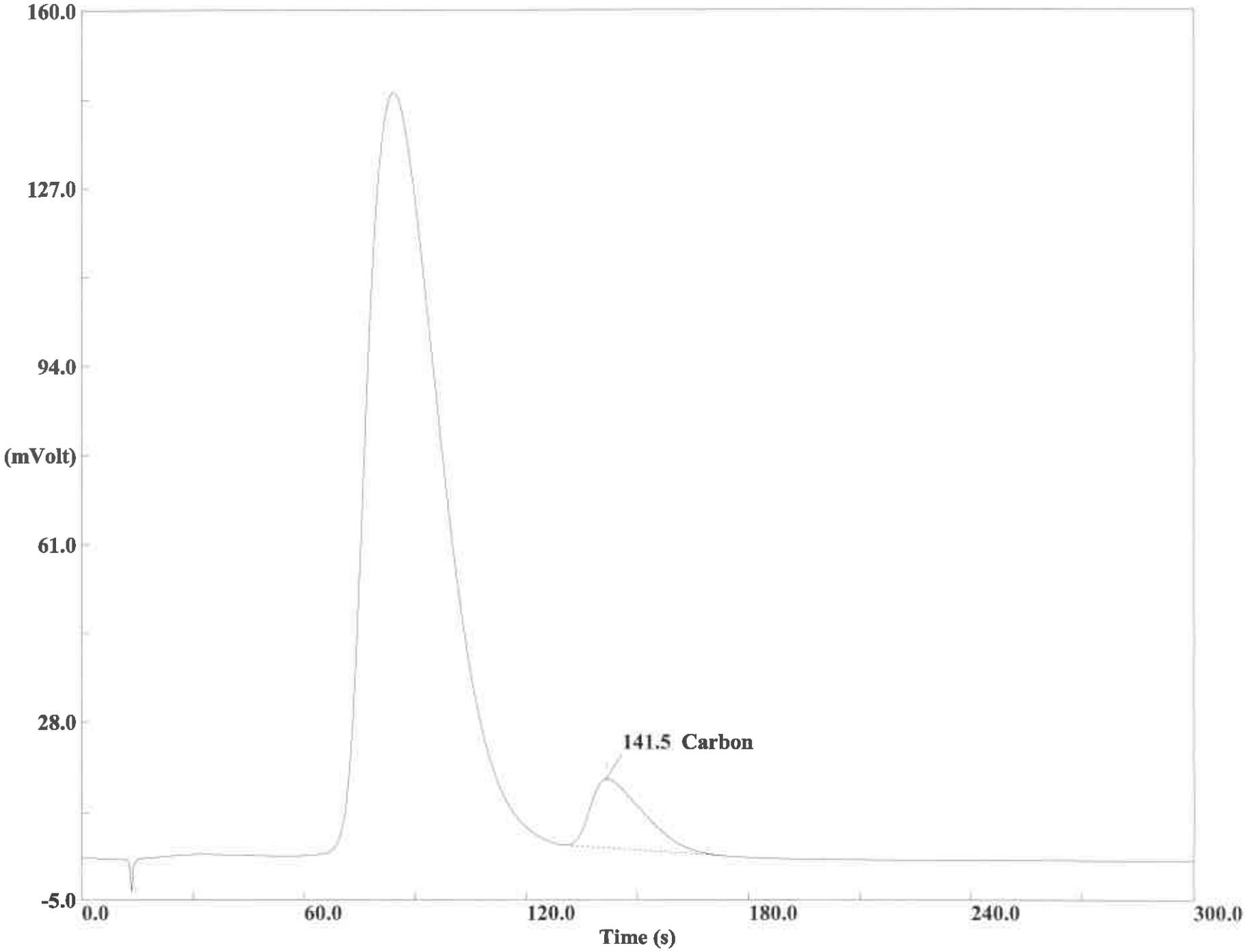
Method Name : Lloyd Kahn
Method File : C:\data\January\091118ICAL.mth
Chromatogram : A091118013
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 09/11/2018 11:37 Printed : 9/12/2018 10:12
Sample ID : CCB (# 13)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20

Calib. method : using 'Least Squares to Linear fit'

!!! Warning missing one or more peaks.

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418001.DAT
Sample name :ccv Analysed :10/04/2018 15:02

Eager 300 Report

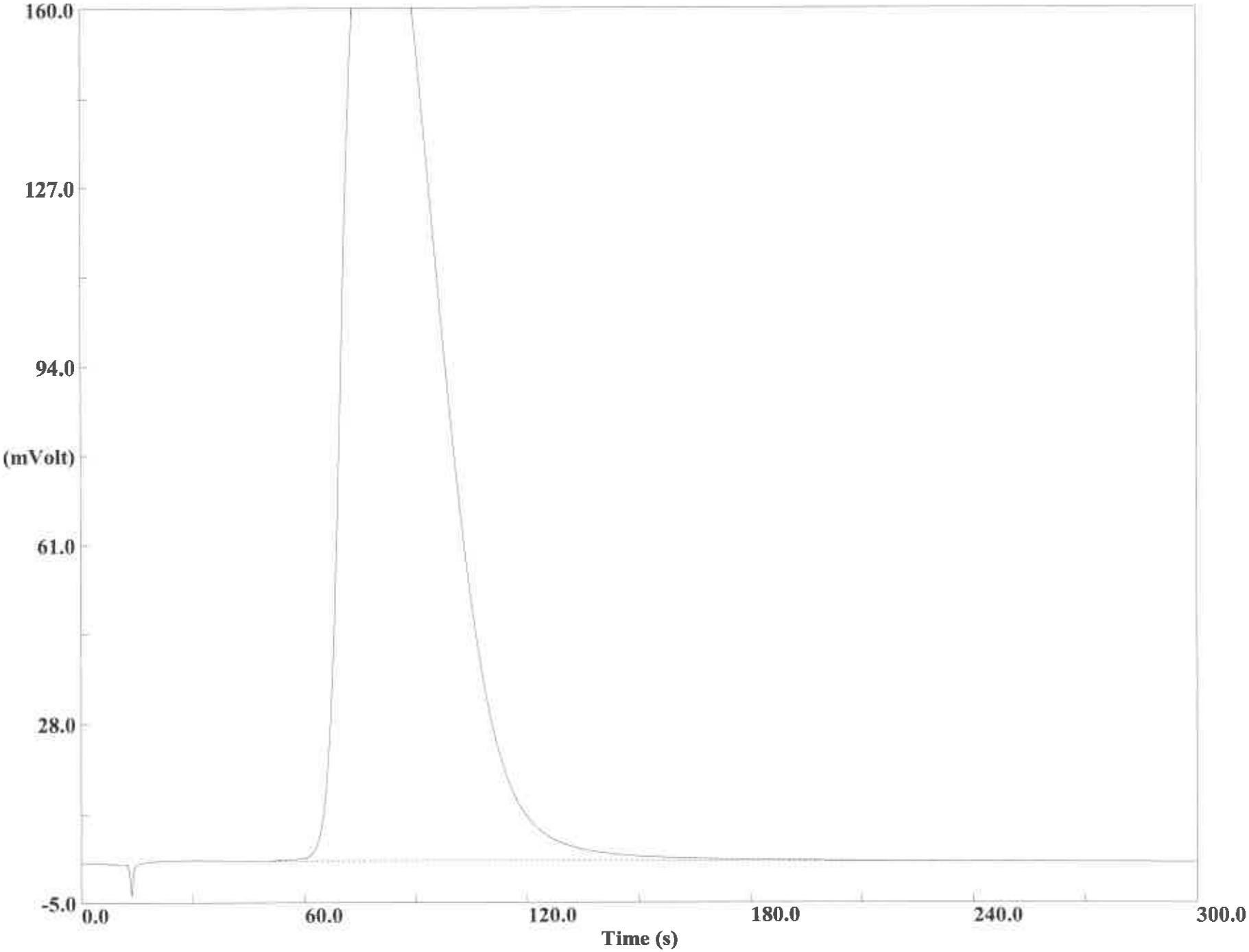
Page: 1 Sample: ccv (A100418001)

Method Name : Lloyd Kahn
Method File : C:\data\January\100418.mth
Chromatogram : A100418001
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 15:02 Printed : 10/5/2018 08:30
Sample ID : ccv (# 14)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 100

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.9246	142	2095646	mi	1.000000	

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418002.DAT
Sample name :ccb Analysed :10/04/2018 15:09

Eager 300 Report

Page: 1 Sample: ccb (A100418002)

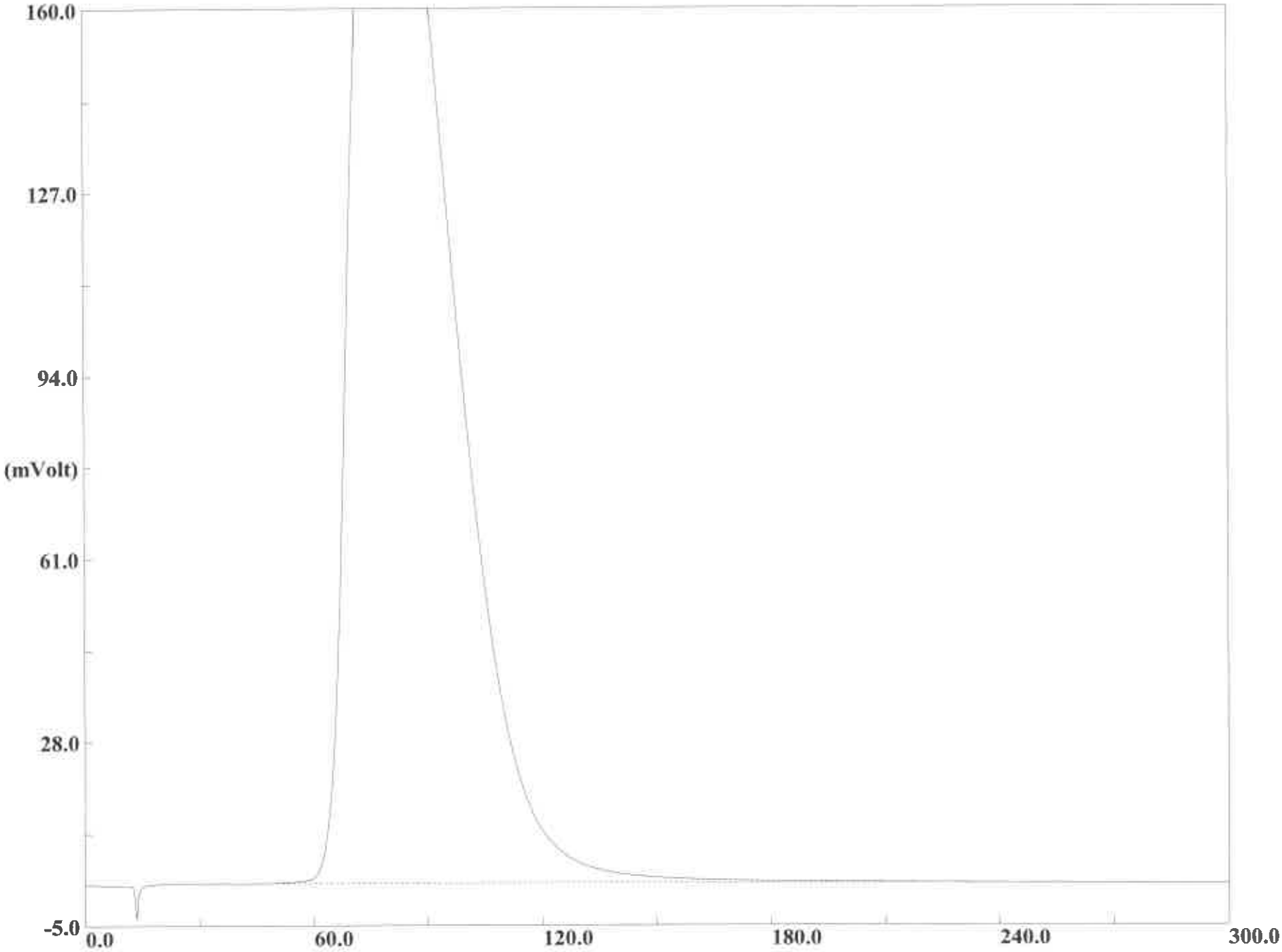
Method Name : Lloyd Kahn
Method File : C:\data\January\100418.mth
Chromatogram : A100418002
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 15:09 Printed : 10/5/2018 08:30
Sample ID : ccb (# 15)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20

Calib. method : using 'Least Squares to Linear fit'

!!! Warning missing one or more peaks.

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418003.DAT
Sample name :mb Analysed :10/04/2018 15:14

Eager 300 Report

Page: 1 Sample: mb (A100418003)

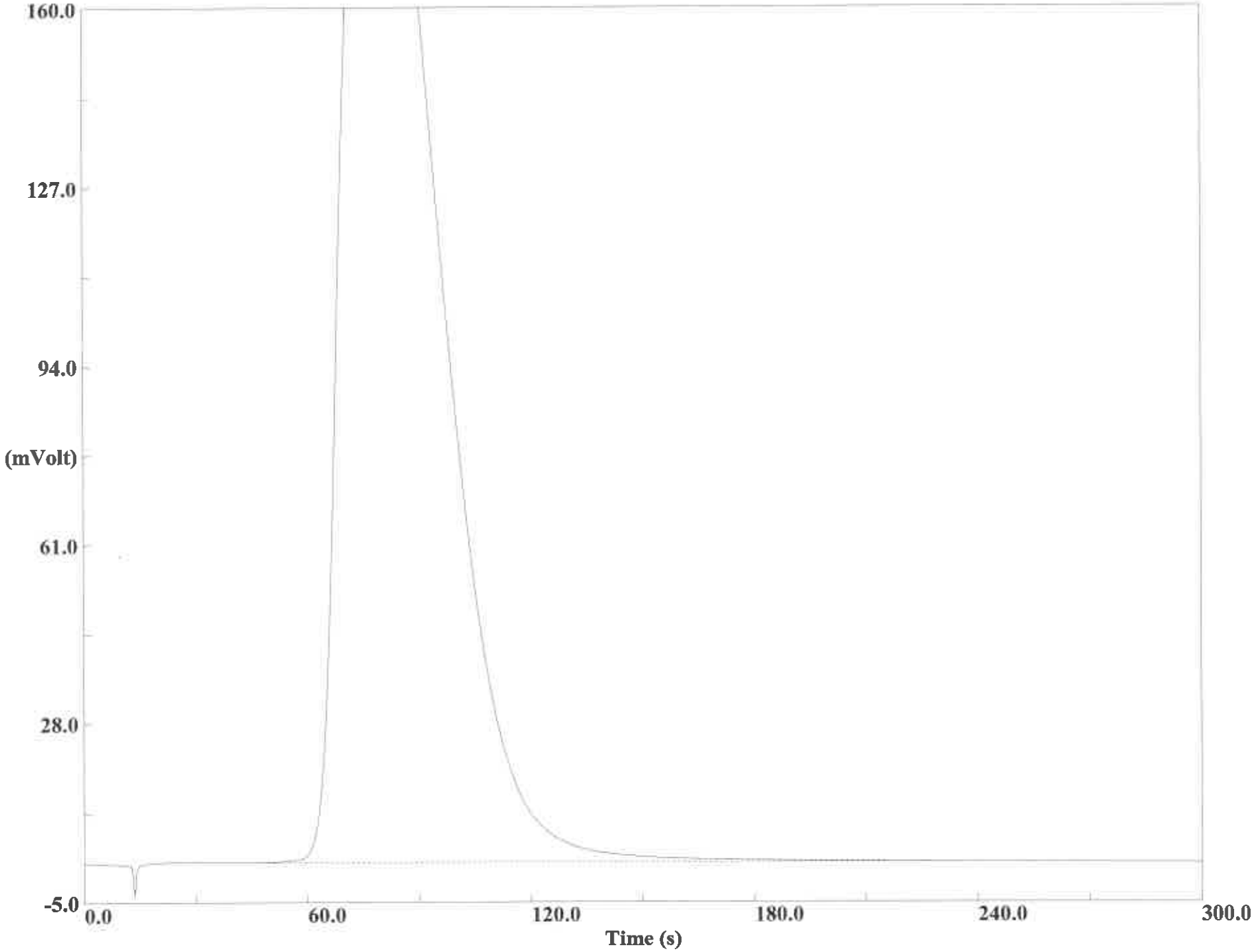
Method Name : Lloyd Kahn
Method File : C:\data\January\100418.mth
Chromatogram : A100418003
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 15:14 Printed : 10/5/2018 08:31
Sample ID : mb (# 16)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 21.8

Calib. method : using 'Least Squares to Linear fit'

!!! Warning missing one or more peaks.

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418004.DAT
Sample name :mb Analysed :10/04/2018 15:20

Eager 300 Report

Page: 1 Sample: mb (A100418004)

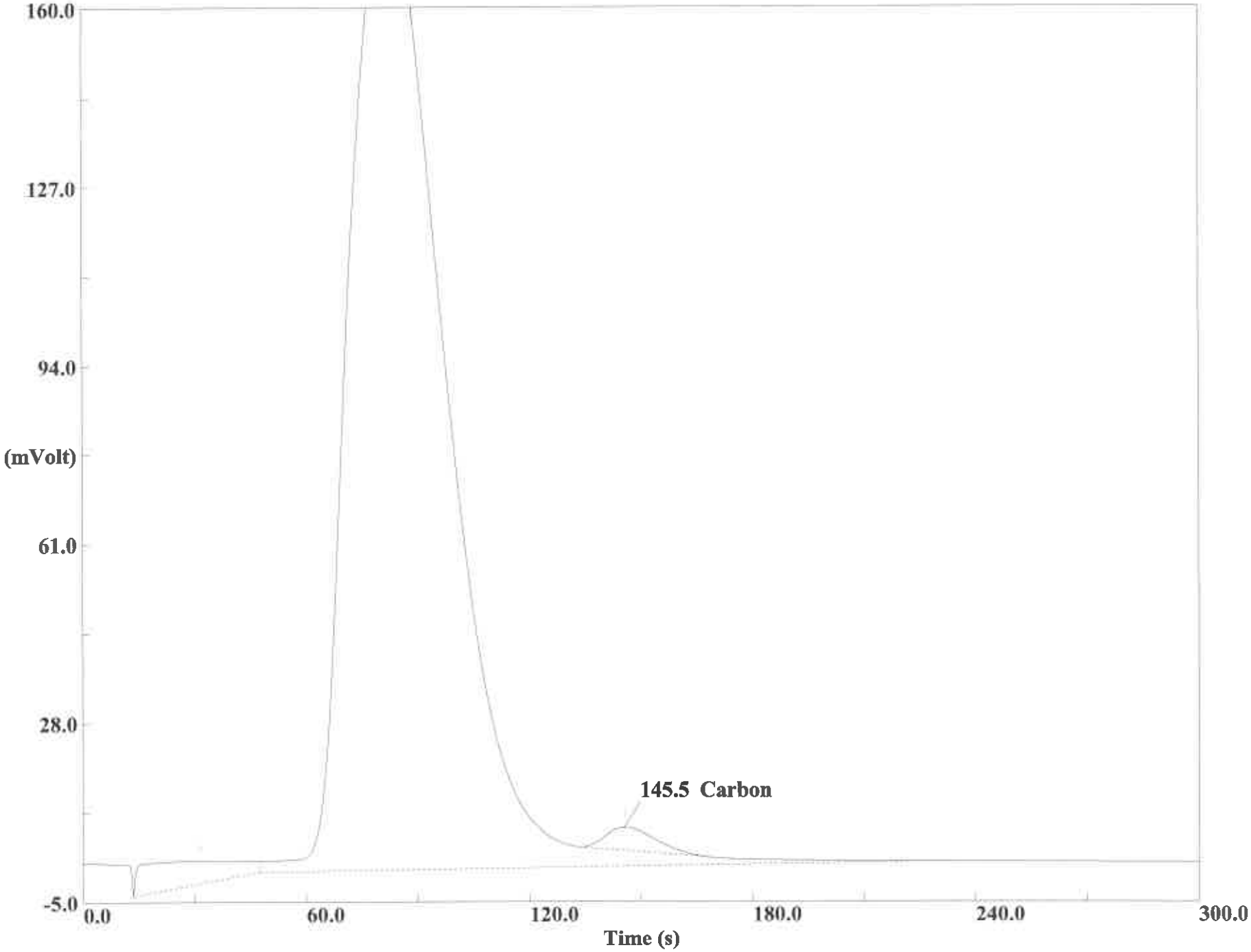
Method Name : Lloyd Kahn
Method File : C:\data\January\100418.mth
Chromatogram : A100418004
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 15:20 Printed : 10/5/2018 08:31
Sample ID : mb (# 17)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20.9

Calib. method : using 'Least Squares to Linear fit'

!!! Warning missing one or more peaks.

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418005.DAT
Sample name :lcs Analysed :10/04/2018 15:25

Eager 300 Report

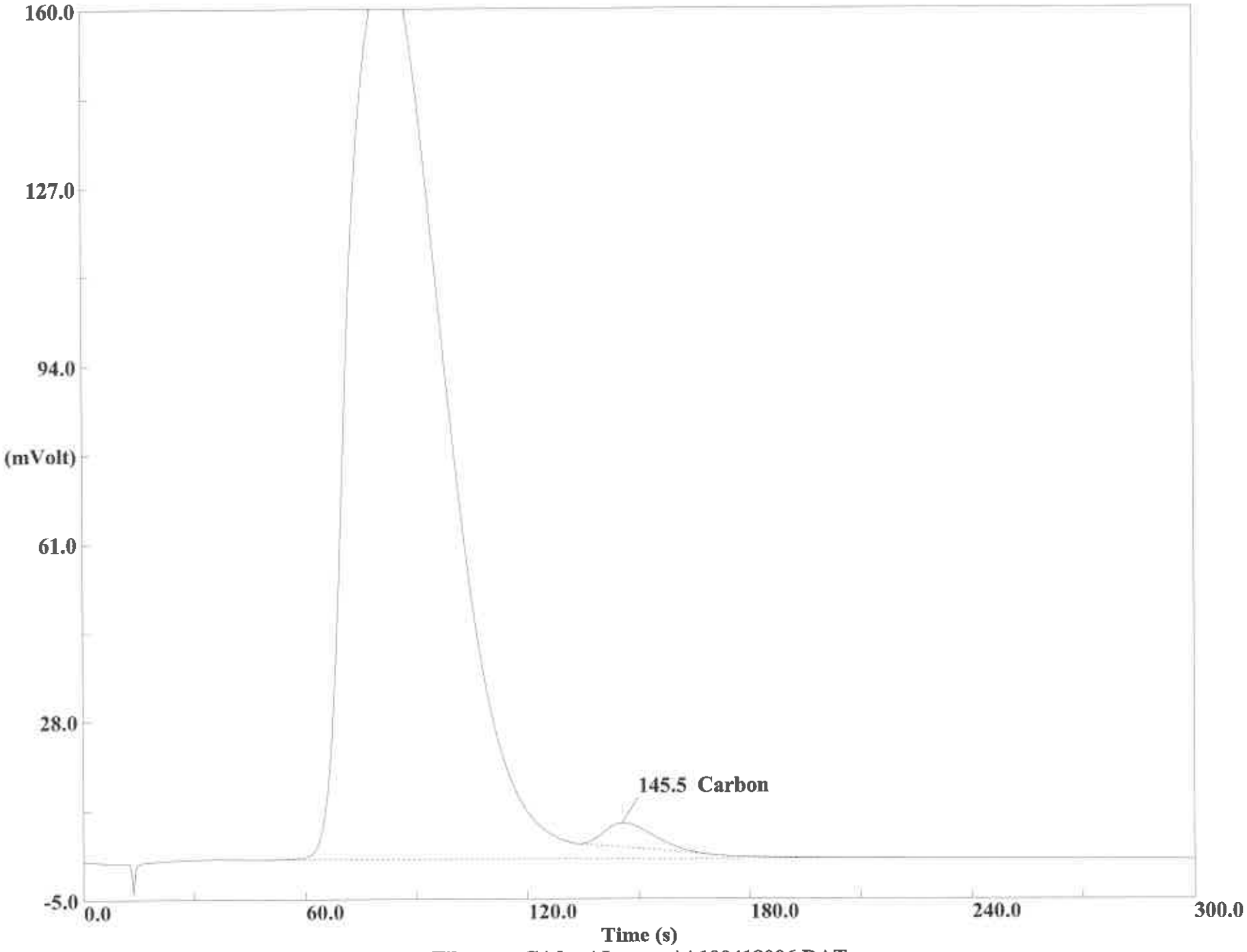
Page: 1 Sample: lcs (A100418005)

Method Name : Lloyd Kahn
Method File : C:\data\January\100418.mth
Chromatogram : A100418005
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 15:25 Printed : 10/5/2018 08:31
Sample ID : lcs (# 18)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 10.3

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	3.0059	146	660322	CR	1.000000	

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418006.DAT
Sample name :lcs Analysed :10/04/2018 15:38

Eager 300 Report

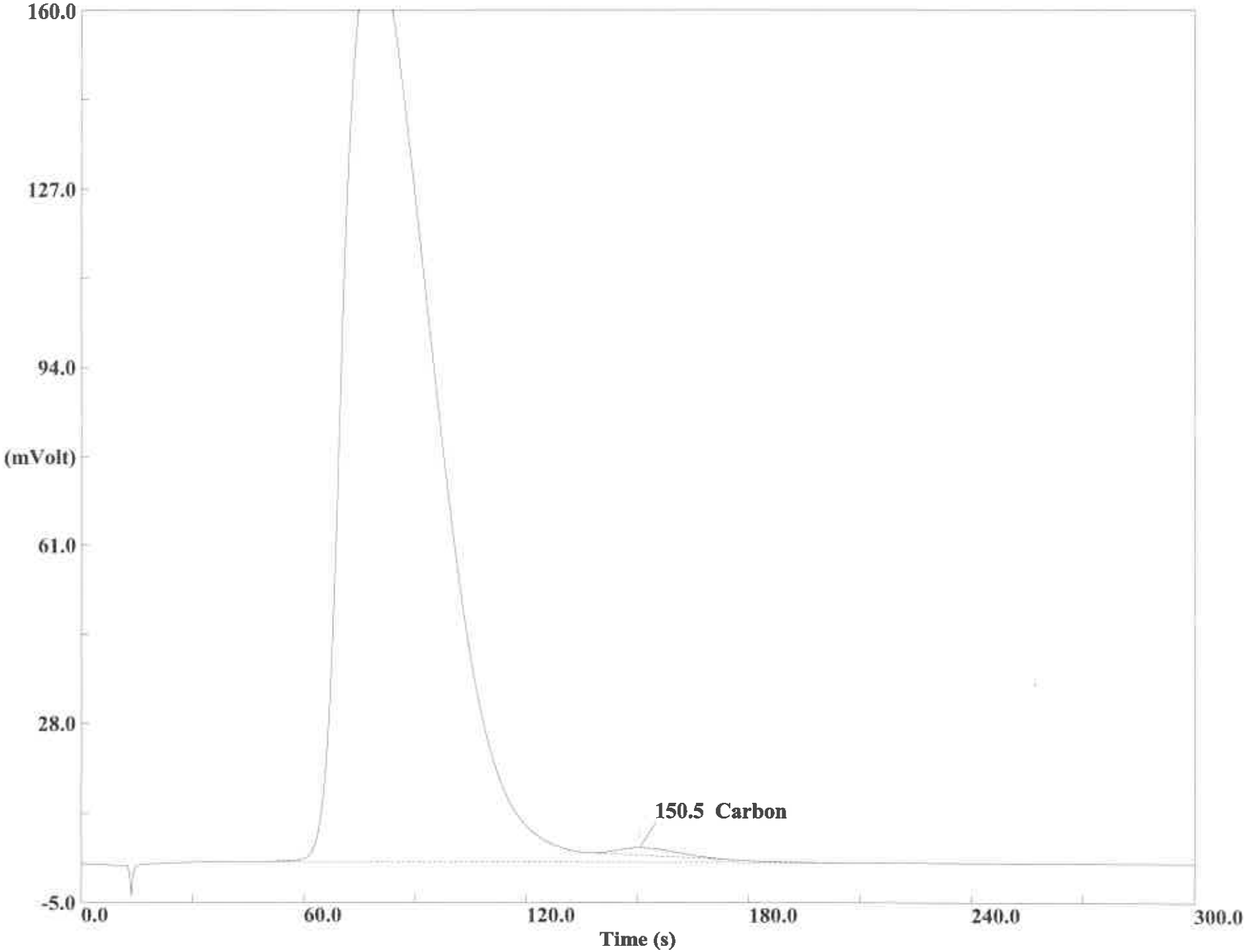
Page: 1 Sample: lcs (A100418006)

Method Name : Lloyd Kahn
Method File : C:\data\January\100418.mth
Chromatogram : A100418006
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 15:38 Printed : 10/5/2018 08:31
Sample ID : lcs (# 19)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 10.5

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	3.0928	146	695638	CR	1.000000	

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418007.DAT
Sample name :180-82571-b-8 Analysed :10/04/2018 15:45

Eager 300 Report

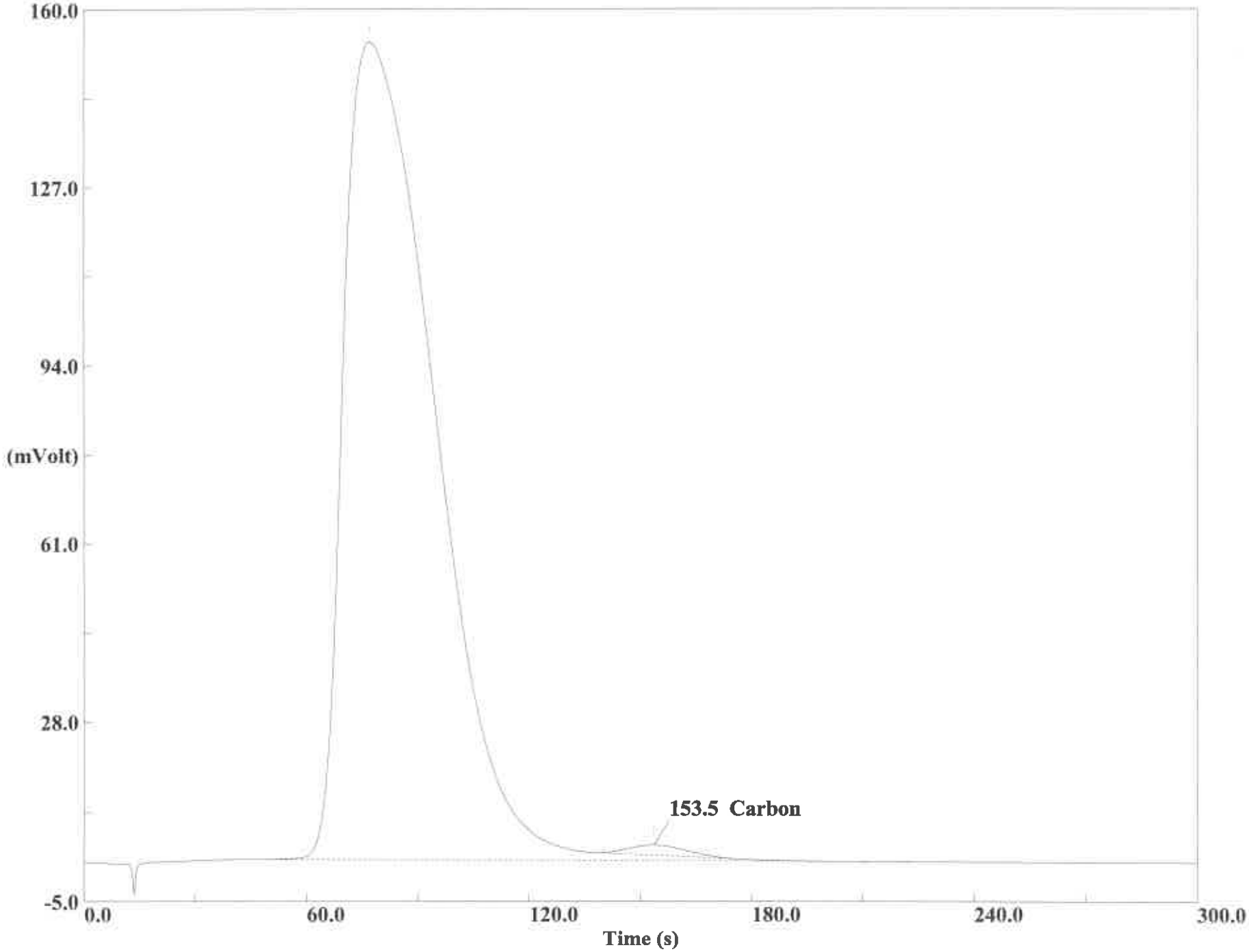
Page: 1 Sample: 180-82571-b-8 (A100418007)

Method Name : Lloyd Kahn
Method File : C:\data\January\100418.mth
Chromatogram : A100418007
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 15:45 Printed : 10/5/2018 08:31
Sample ID : 180-82571-b-8 (# 20)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20.6

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.6799	151	264639	CR	1.000000	

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418008.DAT
Sample name :180-82571-b-8 Analysed :10/04/2018 15:50

Eager 300 Report

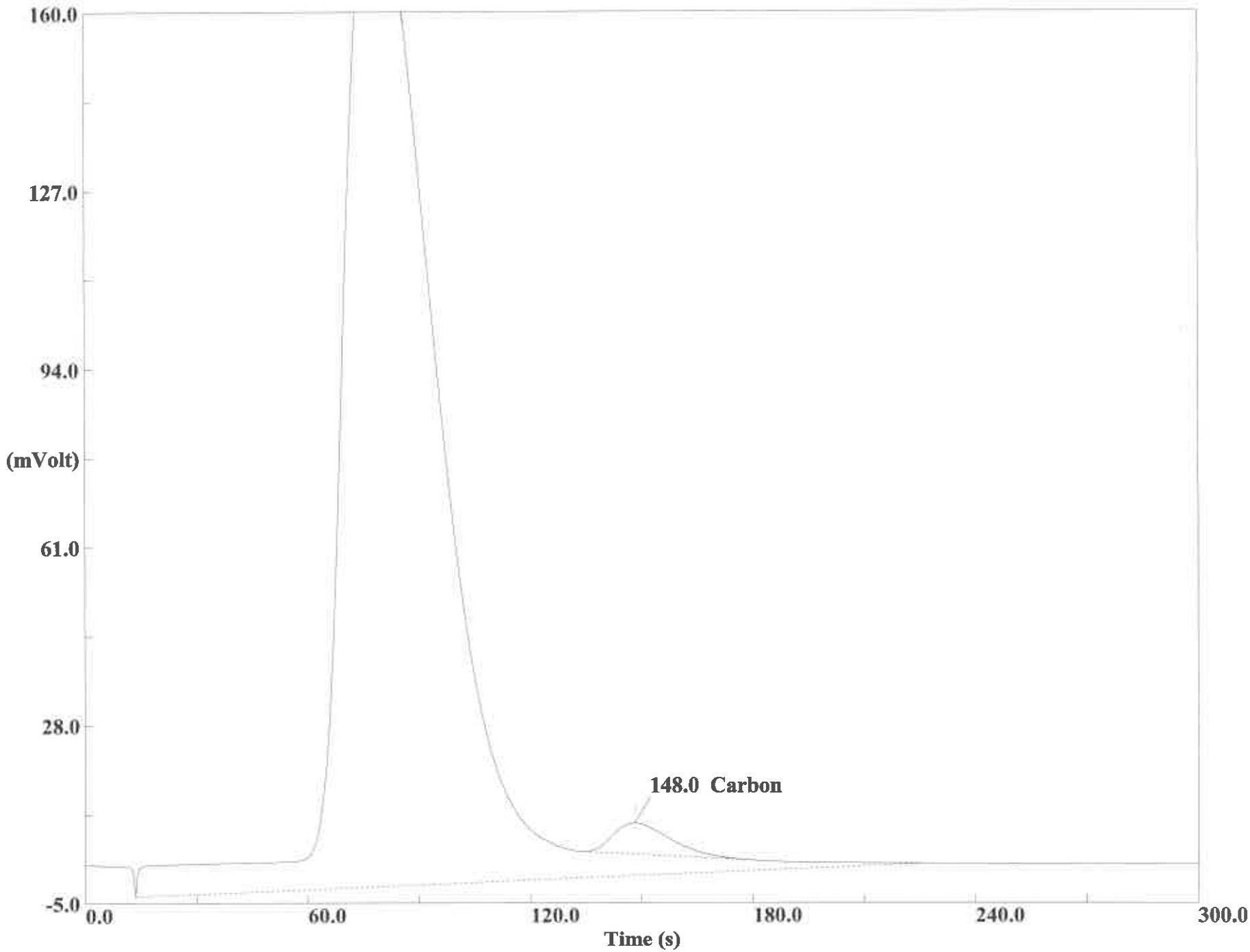
Page: 1 Sample: 180-82571-b-8 (A100418008)

Method Name : Lloyd Kahn
Method File : C:\data\January\100418.mth
Chromatogram : A100418008
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 15:50 Printed : 10/5/2018 08:31
Sample ID : 180-82571-b-8 (# 21)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20.9

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.8227	154	339039	CR	1.000000	

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418009.DAT
Sample name :180-82571-b-8 ms Analysed :10/04/2018 15:55

Eager 300 Report

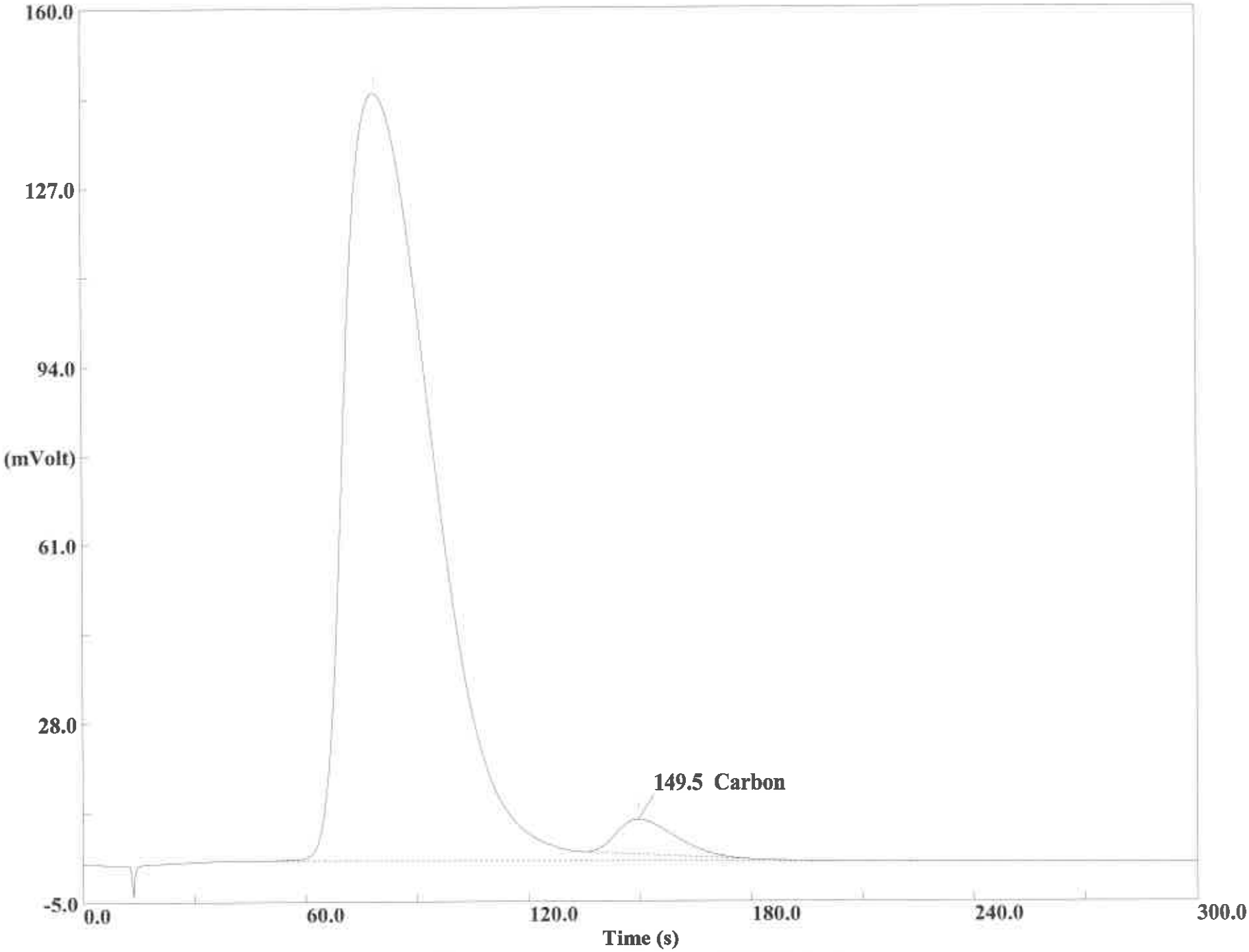
Page: 1 Sample: 180-82571-b-8 ms (A100418009)

Method Name : Lloyd Kahn
Method File : C:\data\January\100418.mth
Chromatogram : A100418009
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 15:55 Printed : 10/5/2018 08:31
Sample ID : 180-82571-b-8 ms (# 22)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 19.8

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	2.3391	148	1018650	CR	1.000000	

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418010.DAT
Sample name :180-82571-b-8 ms Analysed :10/04/2018 16:00

Eager 300 Report

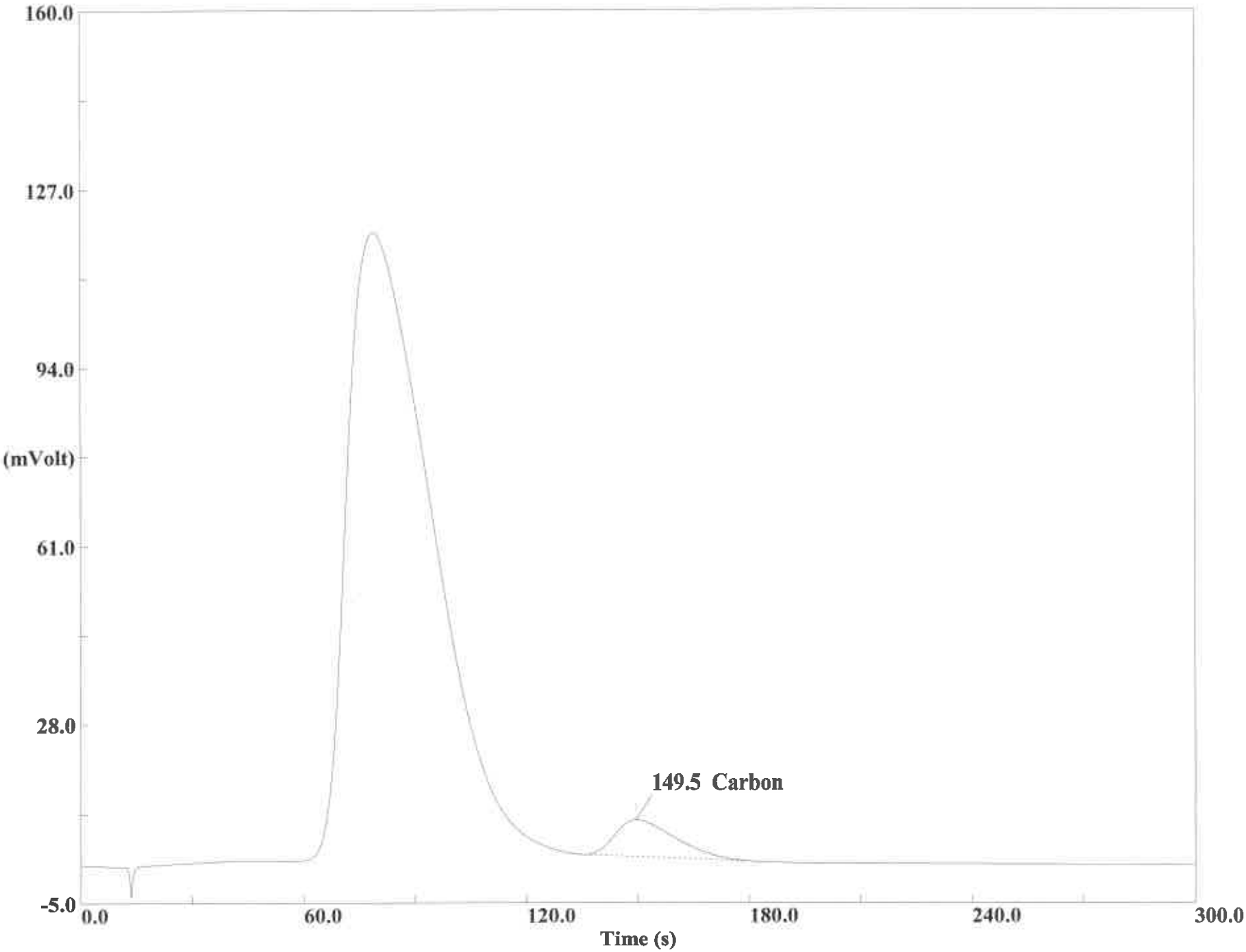
Page: 1 Sample: 180-82571-b-8 ms (A100418010)

Method Name : Lloyd Kahn
Method File : C:\data\January\100418.mth
Chromatogram : A100418010
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 16:00 Printed : 10/5/2018 08:31
Sample ID : 180-82571-b-8 ms (# 23)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20.2

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	2.6096	150	1167982	CR	1.000000	

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418011.DAT
Sample name :180-82571-b-8 msd Analysed :10/04/2018 16:05

Eager 300 Report

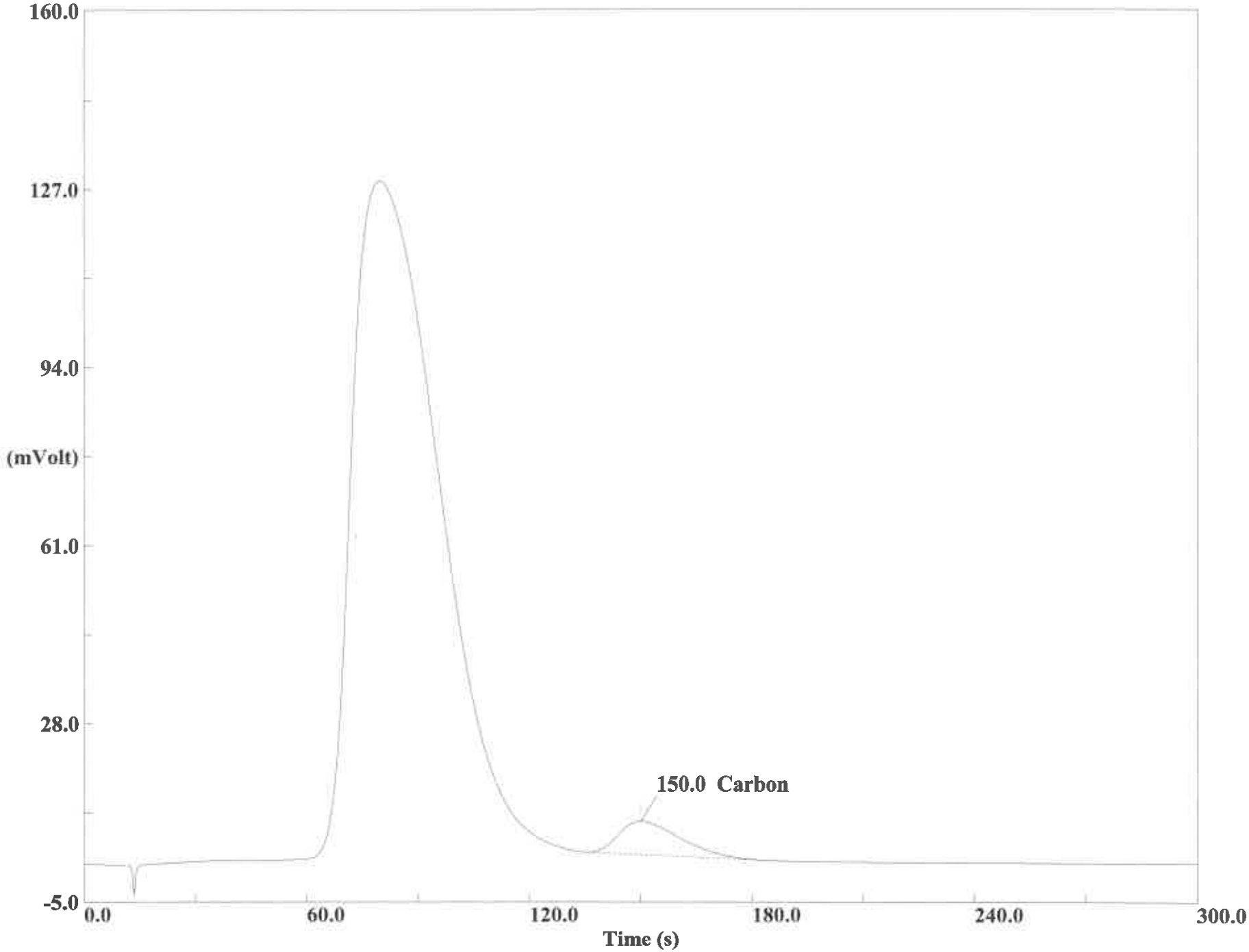
Page: 1 Sample: 180-82571-b-8 msd (A100418011)

Method Name : Lloyd Kahn
Method File : C:\data\January\100418.mth
Chromatogram : A100418011
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 16:05 Printed : 10/5/2018 08:31
Sample ID : 180-82571-b-8 msd (# 24)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20.5

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	2.7886	150	1271920	mi	1.000000	

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418012.DAT
Sample name :180-82571-b-8 msd Analysed :10/04/2018 16:10

Eager 300 Report

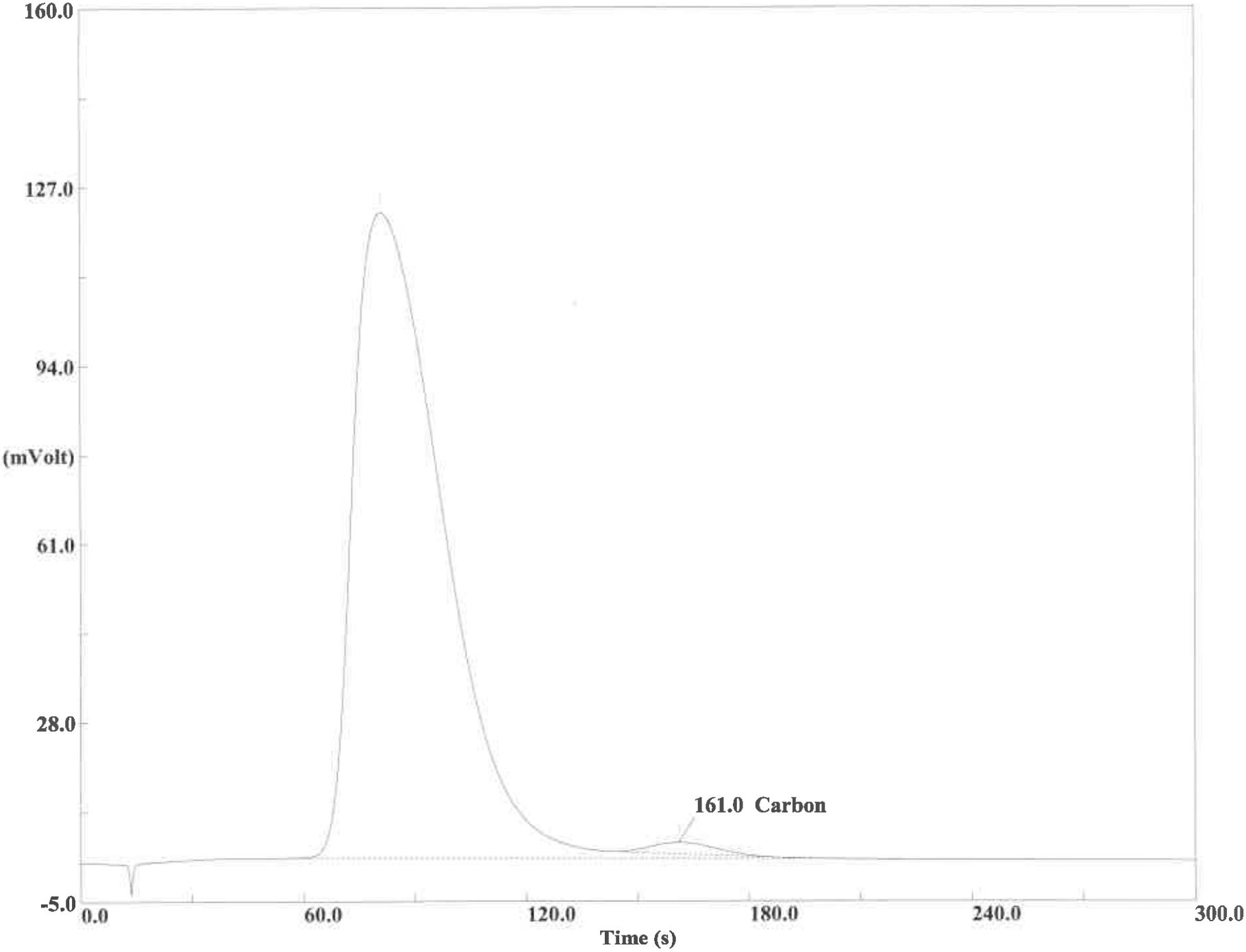
Page: 1 Sample: 180-82571-b-8 msd (A100418012)

Method Name : Lloyd Kahn
Method File : C:\data\January\100418.mth
Chromatogram : A100418012
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 16:10 Printed : 10/5/2018 08:31
Sample ID : 180-82571-b-8 msd (# 25)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20.7

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	2.5649	150	1176838	mi	1.000000	

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418013.DAT
Sample name :180-82571-b-8 du Analysed :10/04/2018 16:15

Eager 300 Report

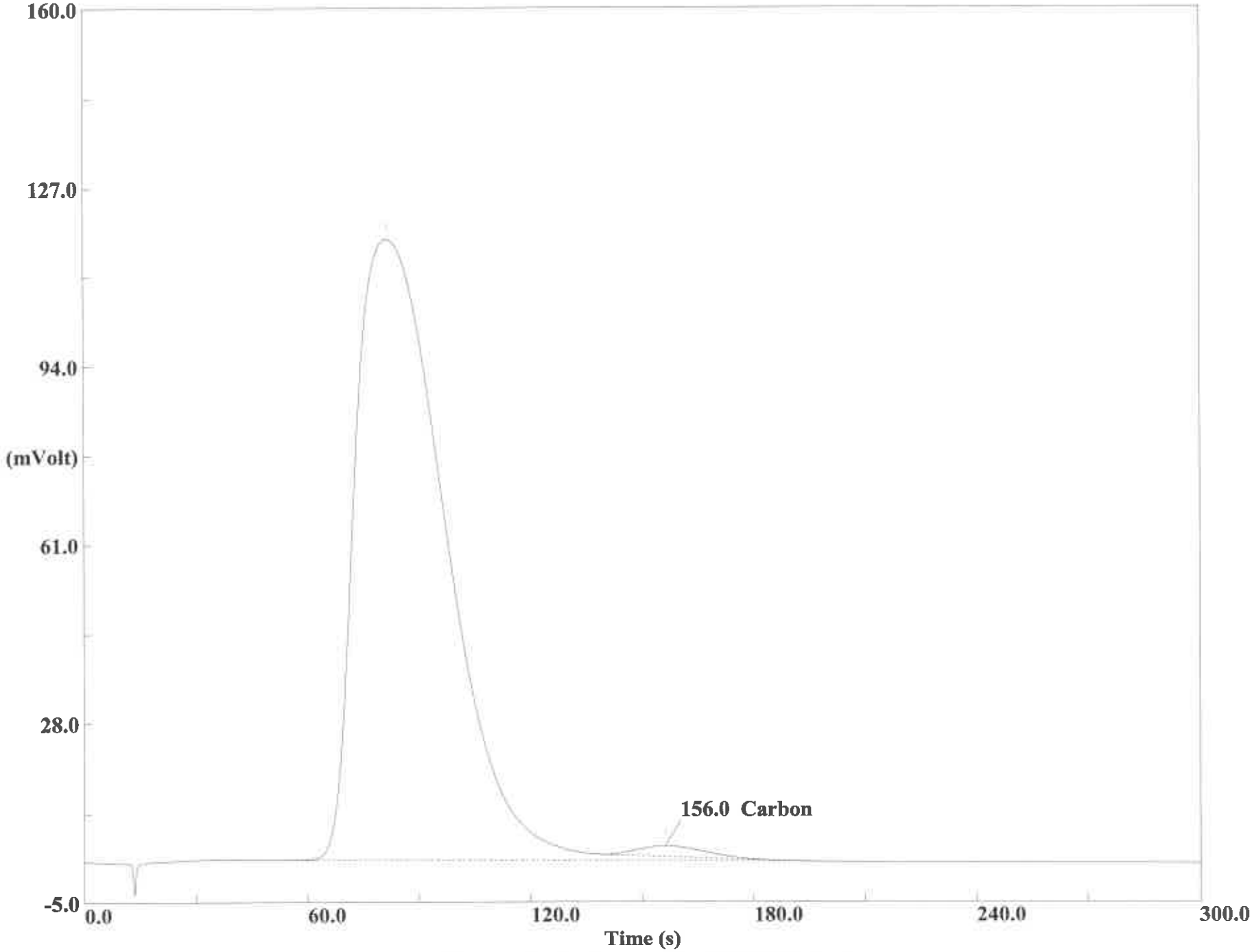
Page: 1 Sample: 180-82571-b-8 du (A100418013)

Method Name : Lloyd Kahn
Method File : C:\data\January\100418.mth
Chromatogram : A100418013
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 16:15 Printed : 10/5/2018 08:31
Sample ID : 180-82571-b-8 du (# 26)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20.9

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.9990	161	425037	CR	1.000000	

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418014.DAT
Sample name :180-82571-b-8 du Analysed :10/04/2018 16:21

Eager 300 Report

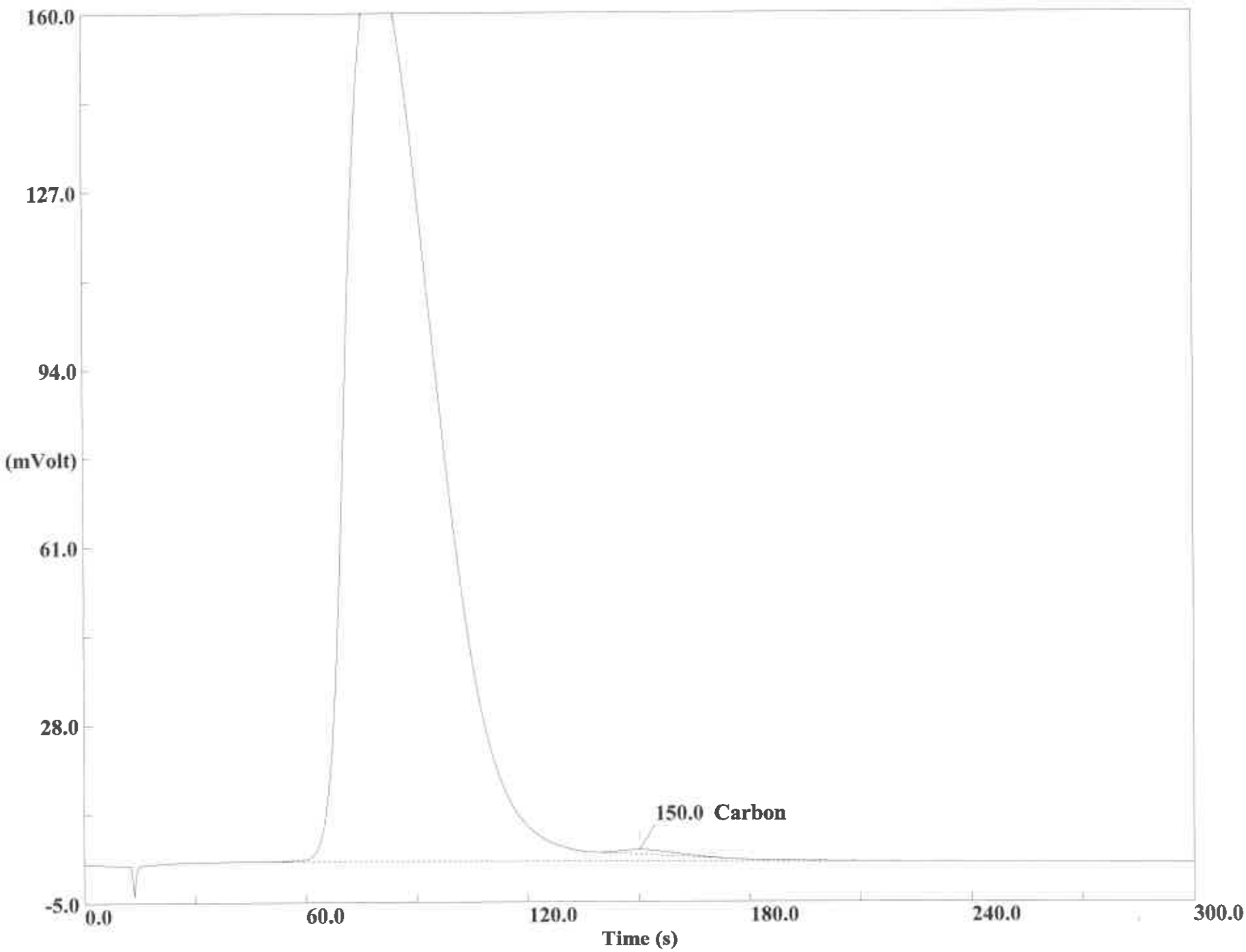
Page: 1 Sample: 180-82571-b-8 du (A100418014)

Method Name : Lloyd Kahn
Method File : C:\data\January\100418.mth
Chromatogram : A100418014
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 16:21 Printed : 10/5/2018 08:31
Sample ID : 180-82571-b-8 du (# 27)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20.4

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.9860	156	407177	CR	1.000000	

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418015.DAT
Sample name :180-82446-b-3 Analysed :10/04/2018 16:26

Eager 300 Report

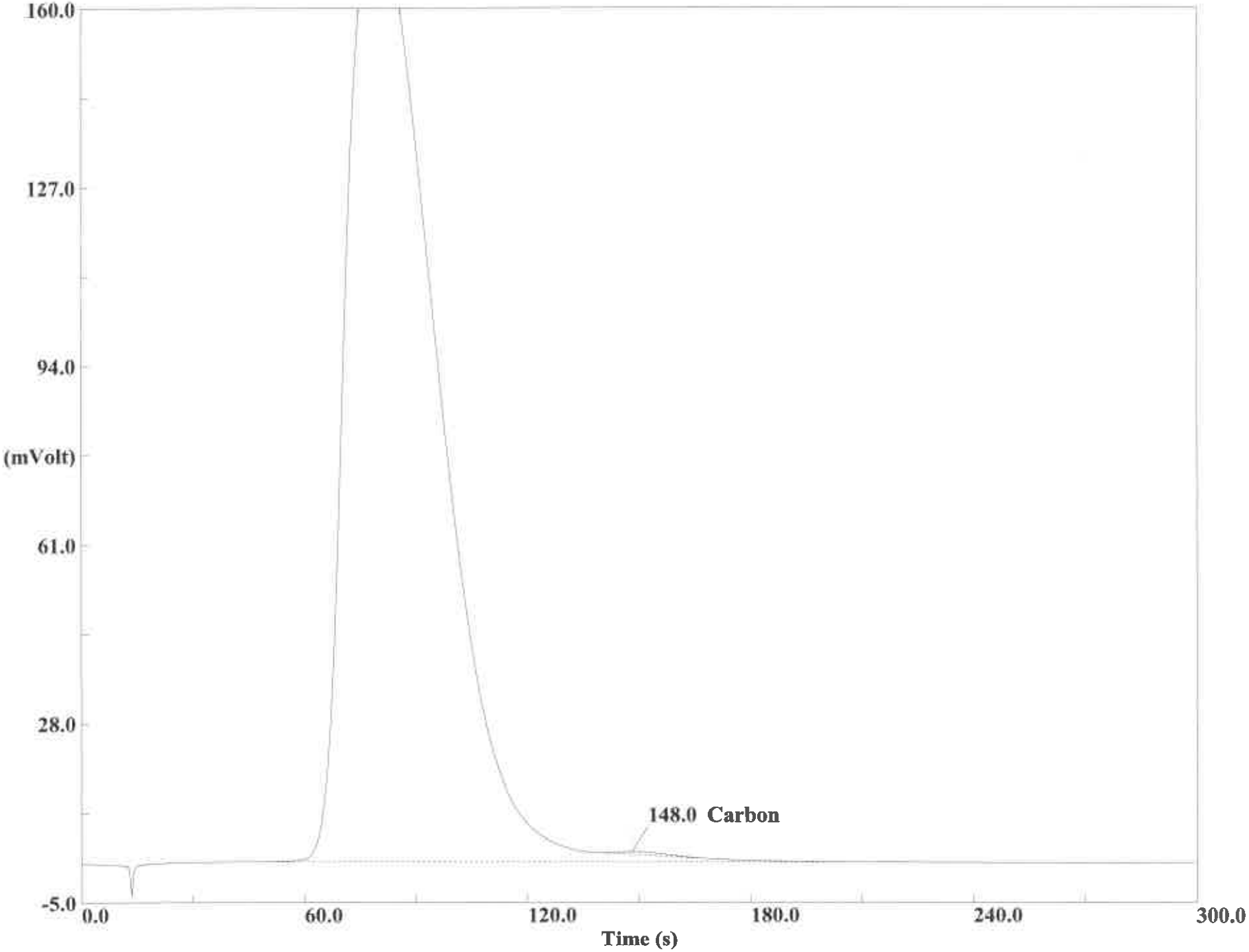
Page: 1 Sample: 180-82446-b-3 (A100418015)

Method Name : Lloyd Kahn
Method File : C:\data\January\100418.mth
Chromatogram : A100418015
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 16:26 Printed : 10/5/2018 08:31
Sample ID : 180-82446-b-3 (# 28)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20.6

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.4380	150	148345	CR	1.000000	

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418016.DAT
Sample name :180-82446-b-3 Analysed :10/04/2018 16:31

Eager 300 Report

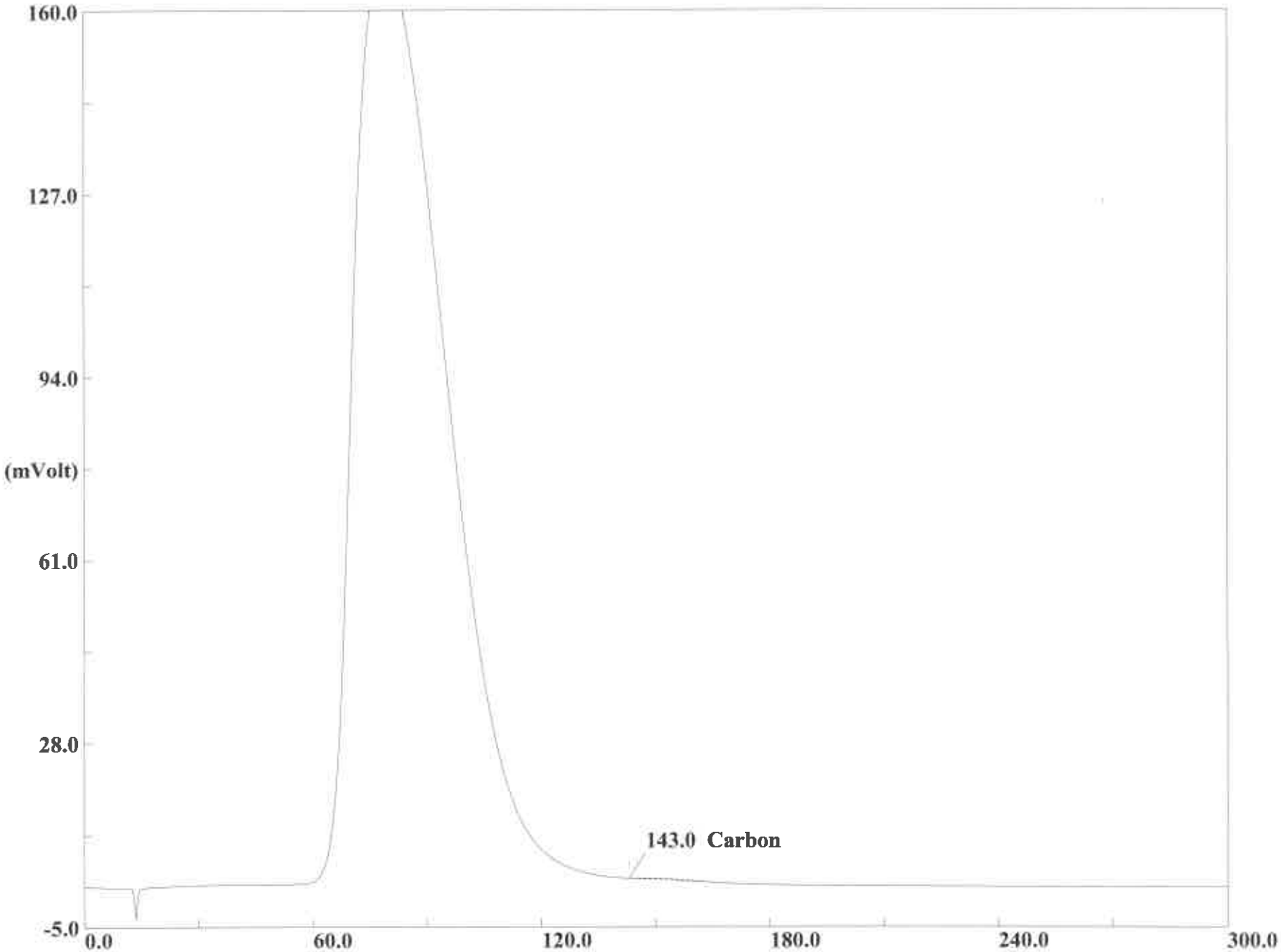
Page: 1 Sample: 180-82446-b-3 (A100418016)

Method Name : Lloyd Kahn
Method File : C:\data\January\100418.mth
Chromatogram : A100418016
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 16:31 Printed : 10/5/2018 08:31
Sample ID : 180-82446-b-3 (# 29)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.2883	148	72354	CR	1.000000	

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418017.DAT
Sample name :180-82446-b-1 Analysed :10/04/2018 16:36

Eager 300 Report

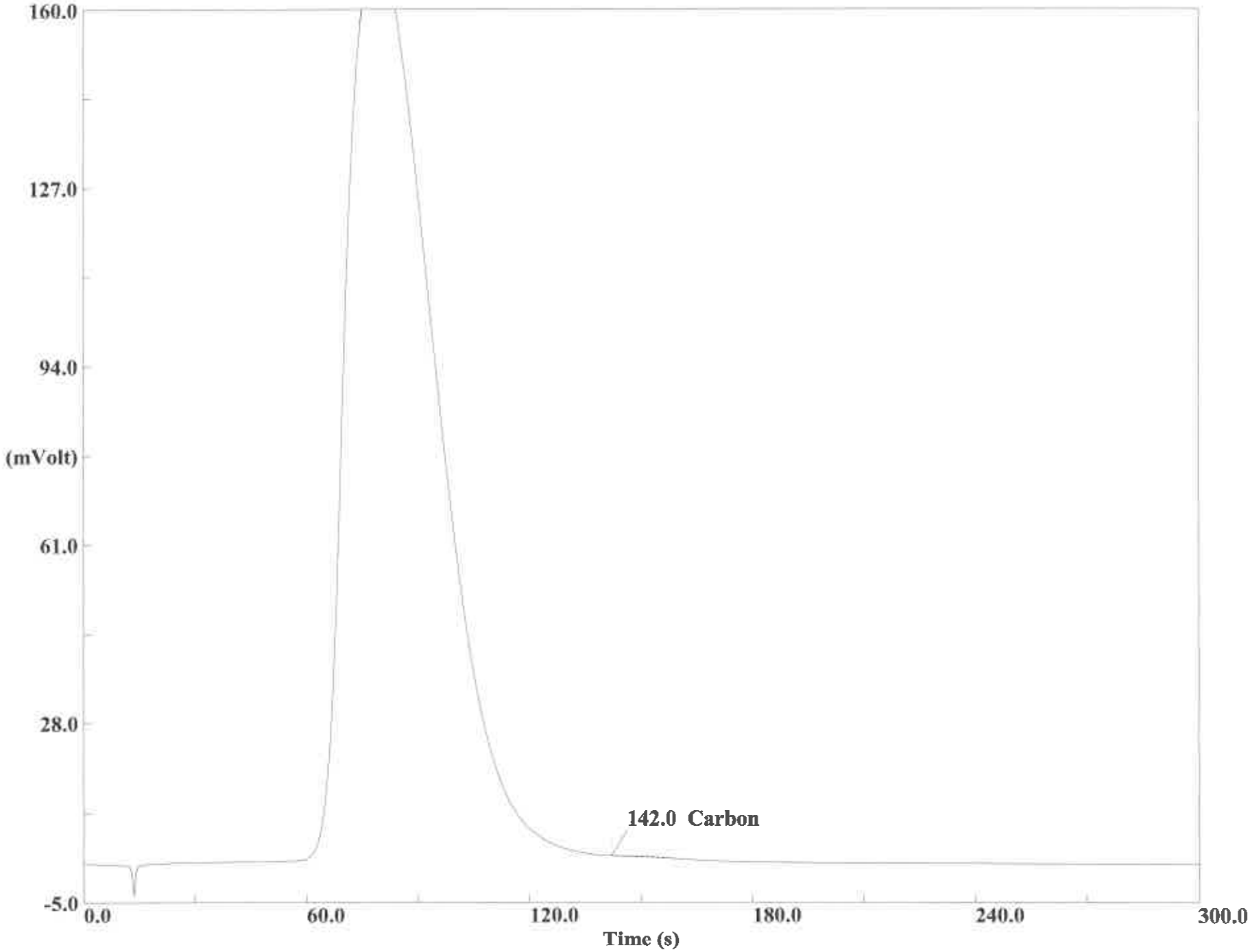
Page: 1 Sample: 180-82446-b-1 (A100418017)

Method Name : Lloyd Kahn
Method File : C:\data\January\100418.mth
Chromatogram : A100418017
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 16:36 Printed : 10/5/2018 08:32
Sample ID : 180-82446-b-1 (# 30)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20.3

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.1874	143	26536	mi	1.000000	

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418018.DAT
Sample name :180-82446-b-1 Analysed :10/04/2018 16:41

Eager 300 Report

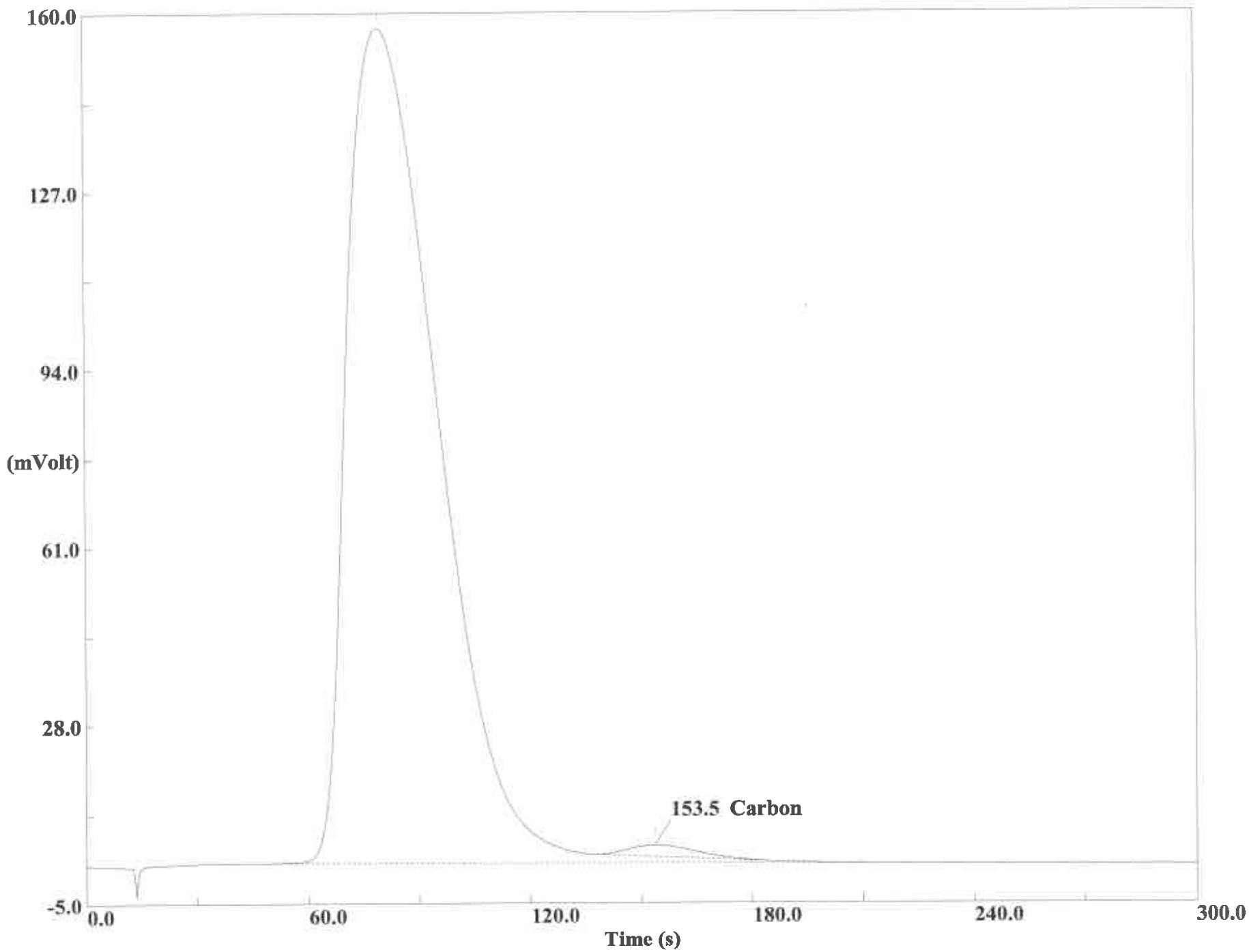
Page: 1 Sample: 180-82446-b-1 (A100418018)

Method Name : Lloyd Kahn
Method File : C:\data\January\100418.mth
Chromatogram : A100418018
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 16:41 Printed : 10/5/2018 08:32
Sample ID : 180-82446-b-1 (# 31)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.1752	142	19560	mi	1.000000	

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418019.DAT
Sample name :180-82571-b-1 Analysed :10/04/2018 16:46

Eager 300 Report

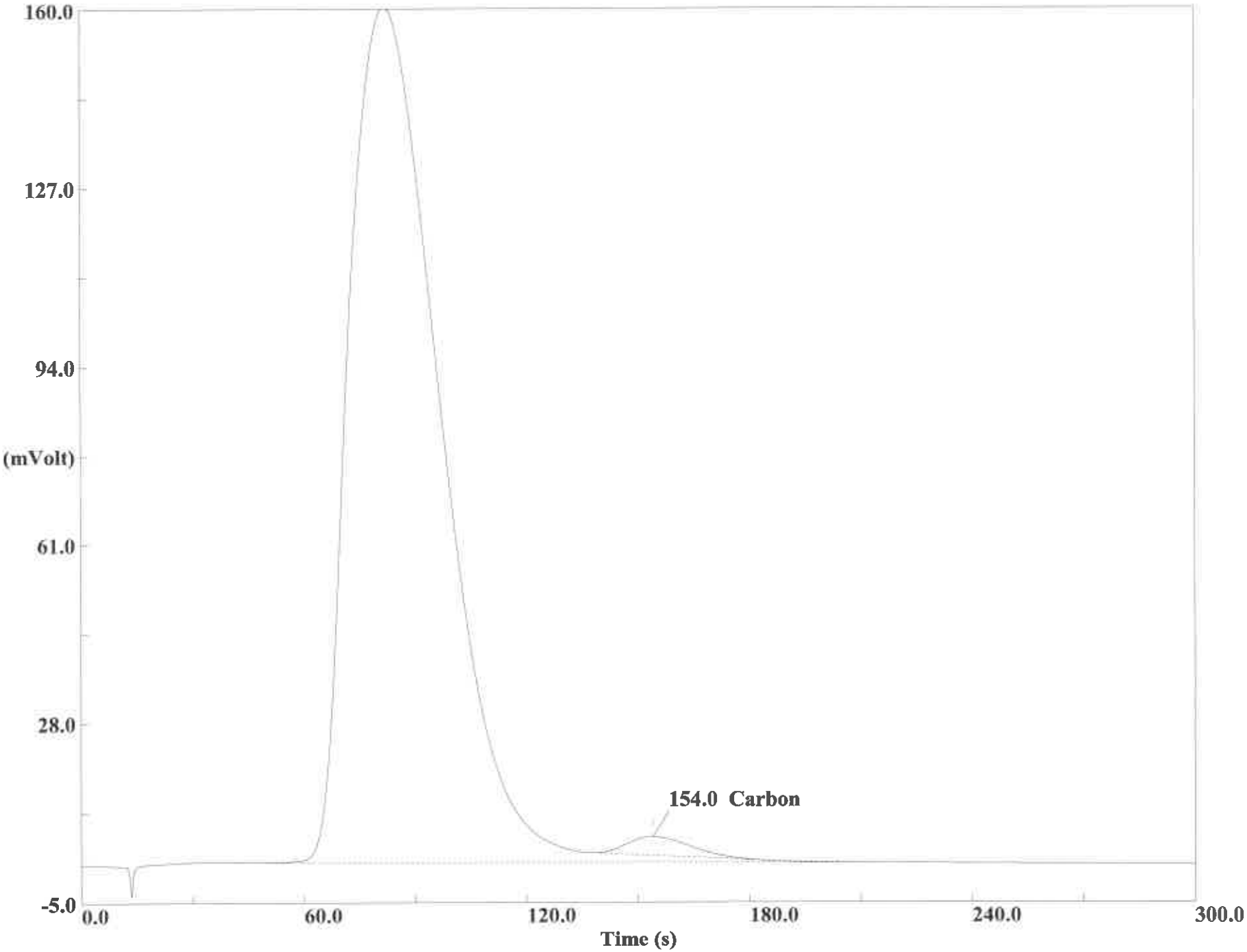
Page: 1 Sample: 180-82571-b-1 (A100418019)

Method Name : Lloyd Kahn
Method File : C:\data\January\100418.mth
Chromatogram : A100418019
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 16:46 Printed : 10/5/2018 08:32
Sample ID : 180-82571-b-1 (# 32)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 21

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	1.0070	154	431300	CR	1.000000	

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418020.DAT
Sample name :180-82571-b-1 Analysed :10/04/2018 16:51

Eager 300 Report

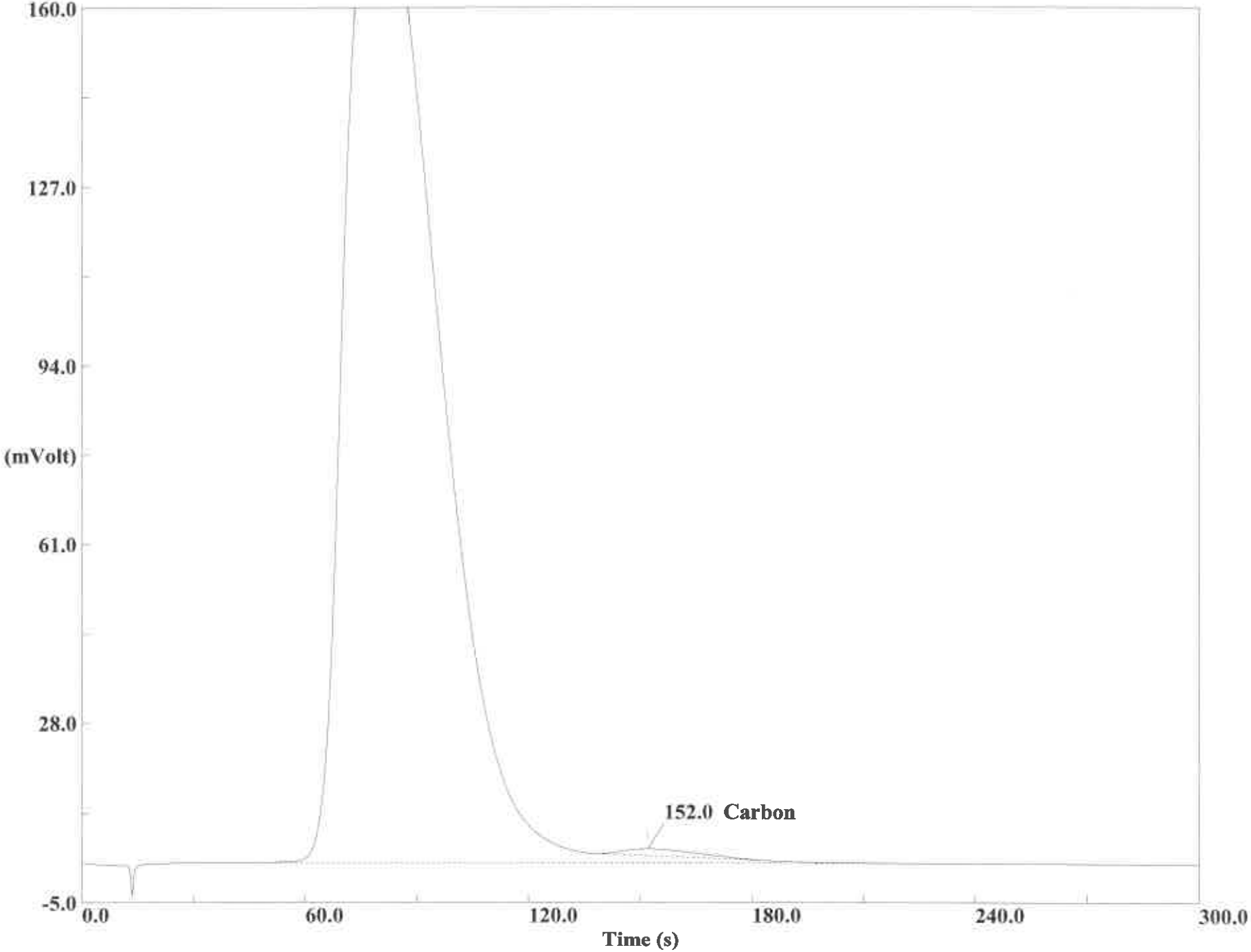
Page: 1 Sample: 180-82571-b-1 (A100418020)

Method Name : Lloyd Kahn
Method File : C:\data\January\100418.mth
Chromatogram : A100418020
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 16:51 Printed : 10/5/2018 08:32
Sample ID : 180-82571-b-1 (# 33)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20.6

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	1.5174	154	667286	CR	1.000000	

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418021.DAT
Sample name :180-82571-b-2 Analysed :10/04/2018 16:56

Eager 300 Report

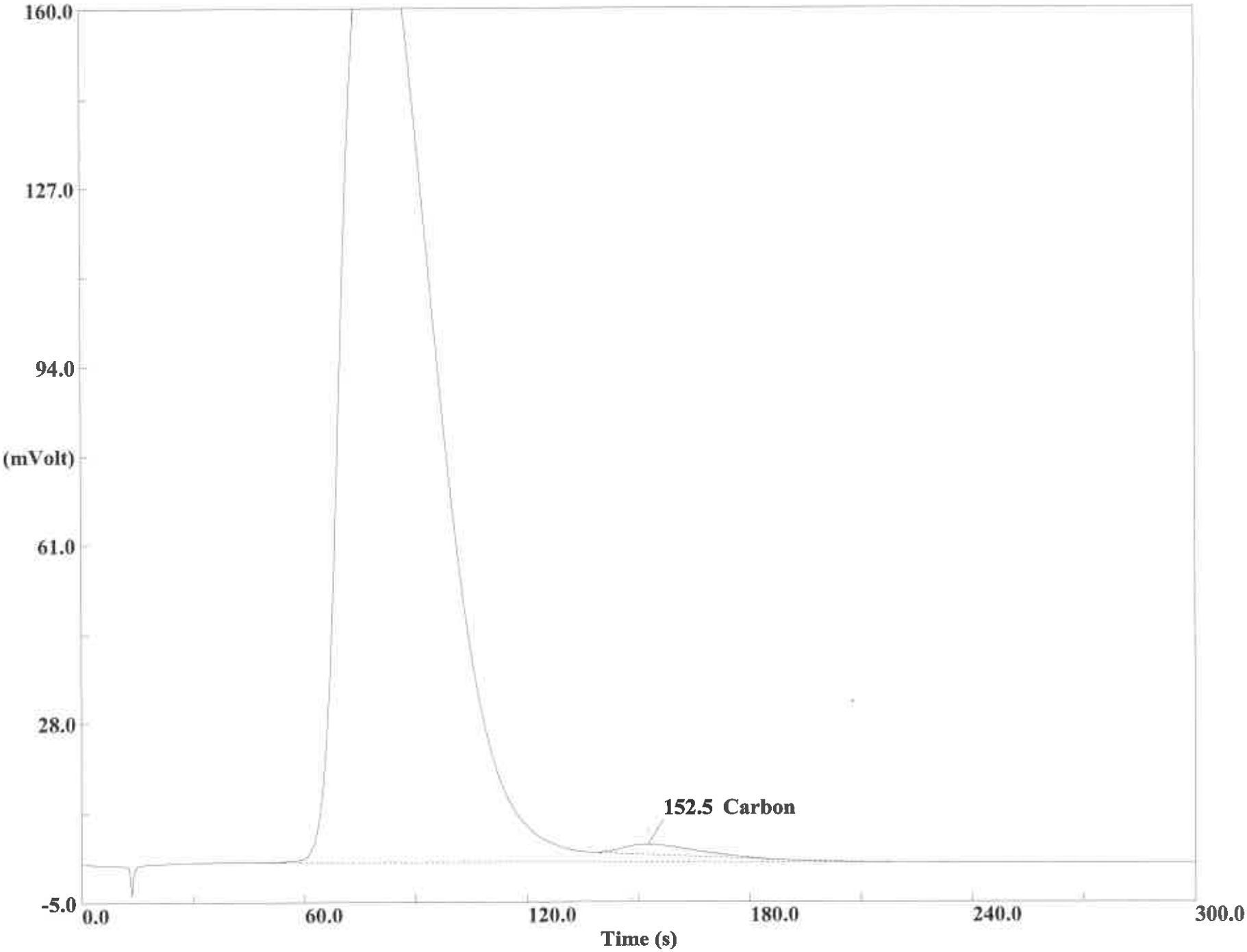
Page: 1 Sample: 180-82571-b-2 (A100418021)

Method Name : Lloyd Kahn
Method File : C:\data\January\100418.mth
Chromatogram : A100418021
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 16:56 Printed : 10/5/2018 08:32
Sample ID : 180-82571-b-2 (# 34)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20.5

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.7324	152	288184	CR	1.000000	

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418022.DAT
Sample name :180-82571-b-2 Analysed :10/04/2018 17:01

Eager 300 Report

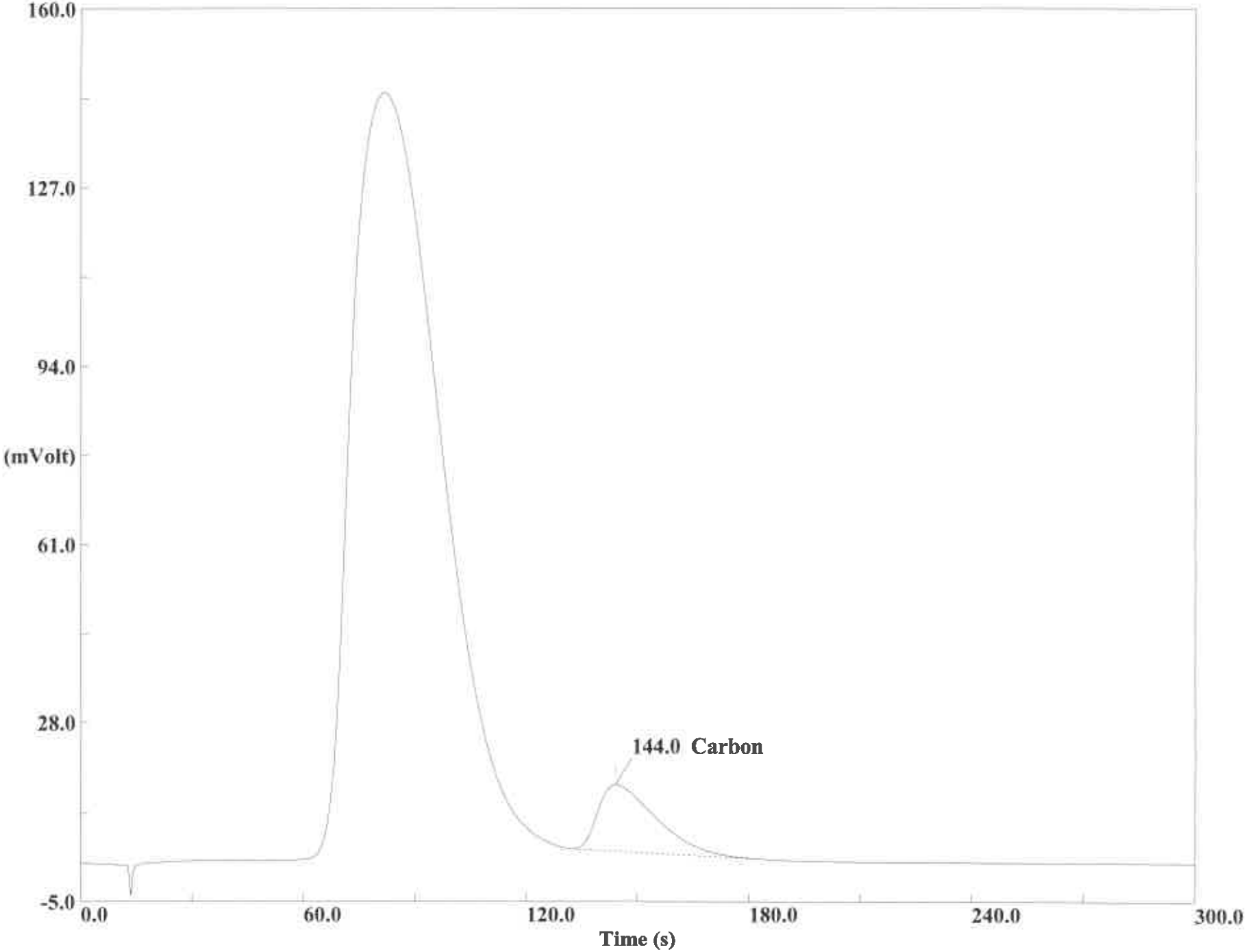
Page: 1 Sample: 180-82571-b-2 (A100418022)

Method Name : Lloyd Kahn
Method File : C:\data\January\100418.mth
Chromatogram : A100418022
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 17:01 Printed : 10/5/2018 08:32
Sample ID : 180-82571-b-2 (# 35)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 21.1

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.9954	153	427909	CR	1.000000	

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418023.DAT
Sample name :ccv Analysed :10/04/2018 17:06

Eager 300 Report

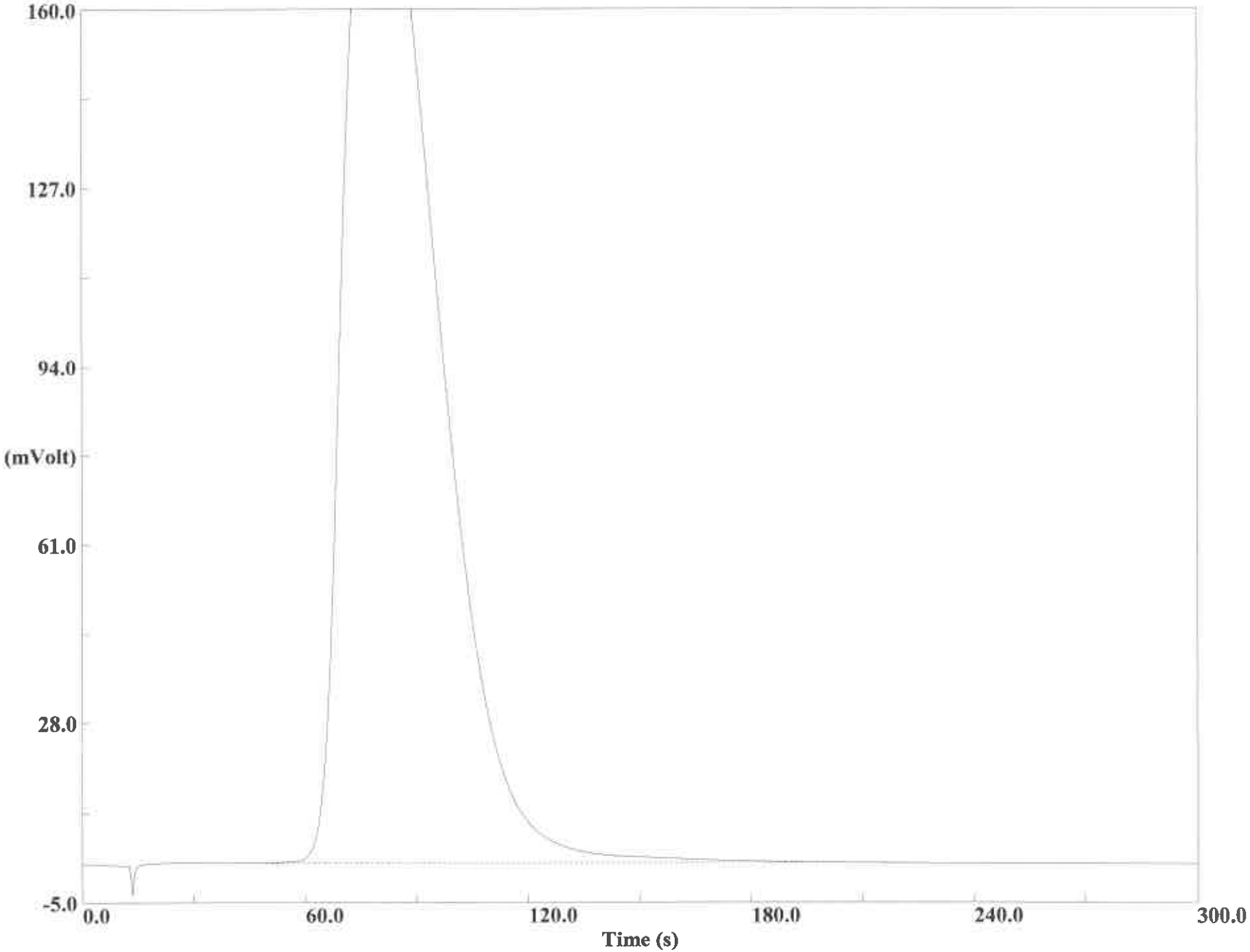
Page: 1 Sample: ccv (A100418023)

Method Name : Lloyd Kahn
Method File : C:\data\January\100418.mth
Chromatogram : A100418023
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 17:06 Printed : 10/5/2018 08:32
Sample ID : ccv (# 36)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 100

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.9869	144	2240904	mi	1.000000	

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418024.DAT
Sample name :ccb Analysed :10/04/2018 17:11

Eager 300 Report

Page: 1 Sample: ccb (A100418024)

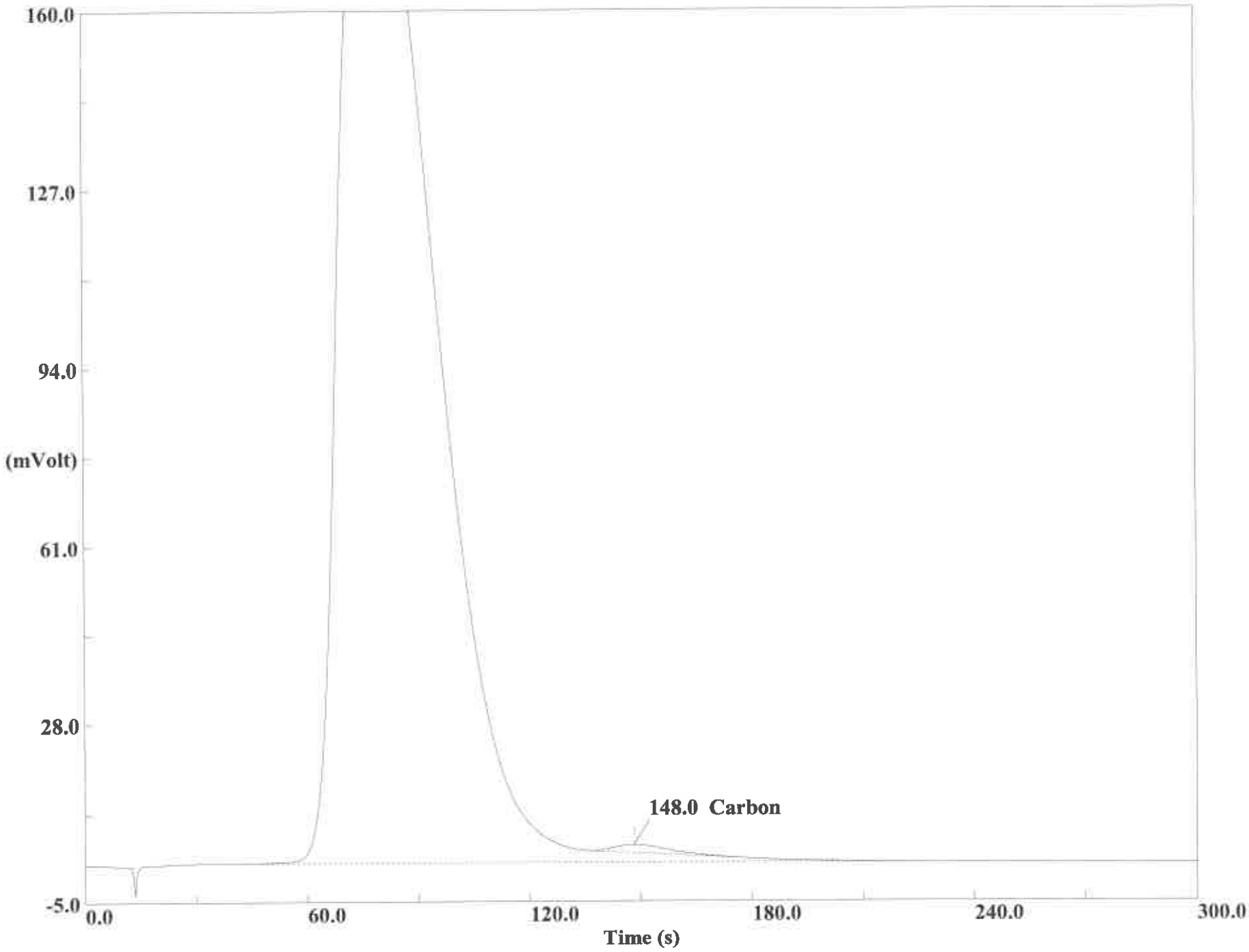
Method Name : Lloyd Kahn
Method File : C:\data\January\100418.mth
Chromatogram : A100418024
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 17:11 Printed : 10/5/2018 08:32
Sample ID : ccb (# 37)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20

Calib. method : using 'Least Squares to Linear fit'

!!! Warning missing one or more peaks.

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418025.DAT
Sample name :180-82571-b-3 Analysed :10/04/2018 17:16

Eager 300 Report

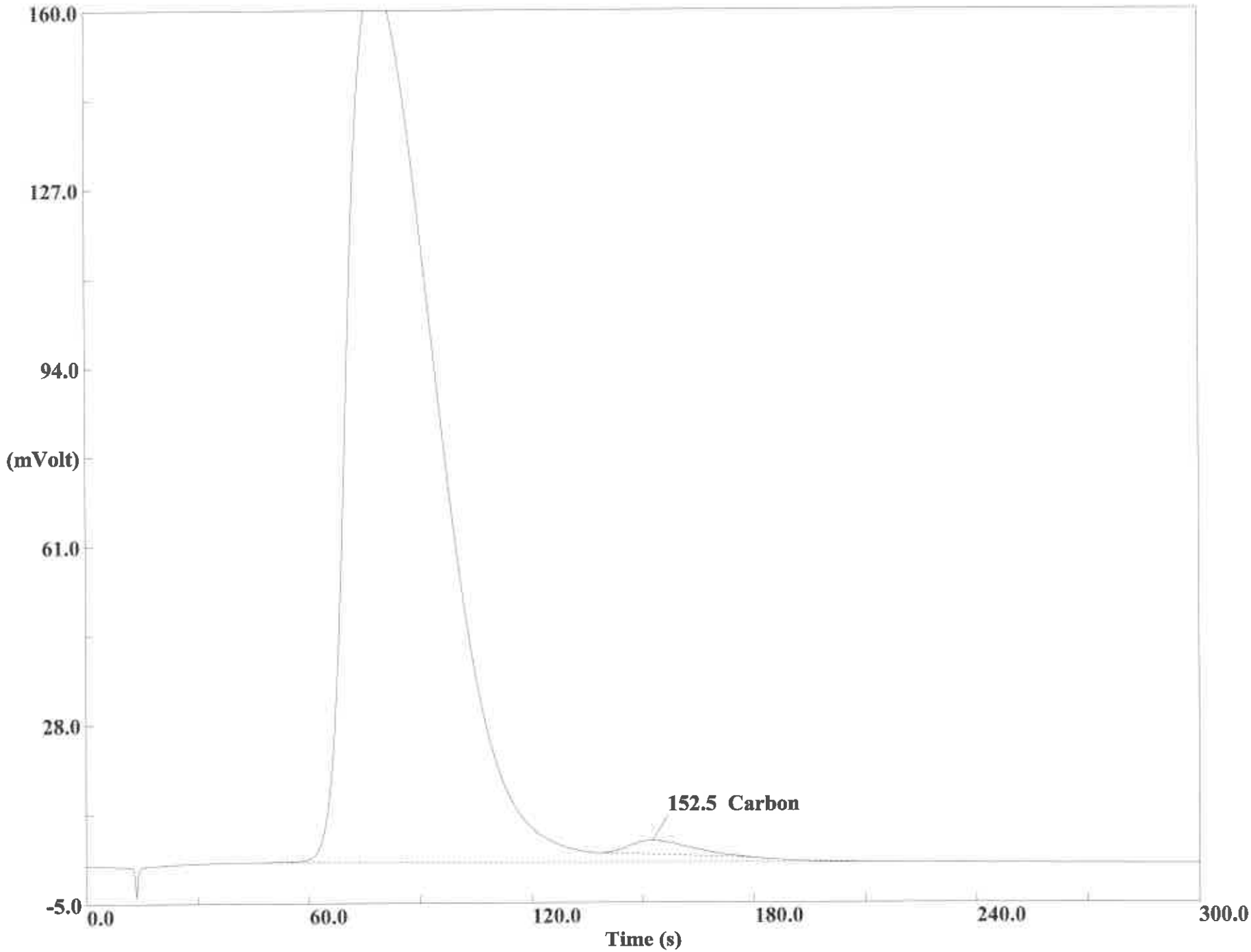
Page: 1 Sample: 180-82571-b-3 (A100418025)

Method Name : Lloyd Kahn
Method File : C:\data\January\100418.mth
Chromatogram : A100418025
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 17:16 Printed : 10/5/2018 08:32
Sample ID : 180-82571-b-3 (# 38)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.6754	148	253022	CR	1.000000	

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418026.DAT
Sample name :180-82571-b-3 Analysed :10/04/2018 17:21

Eager 300 Report

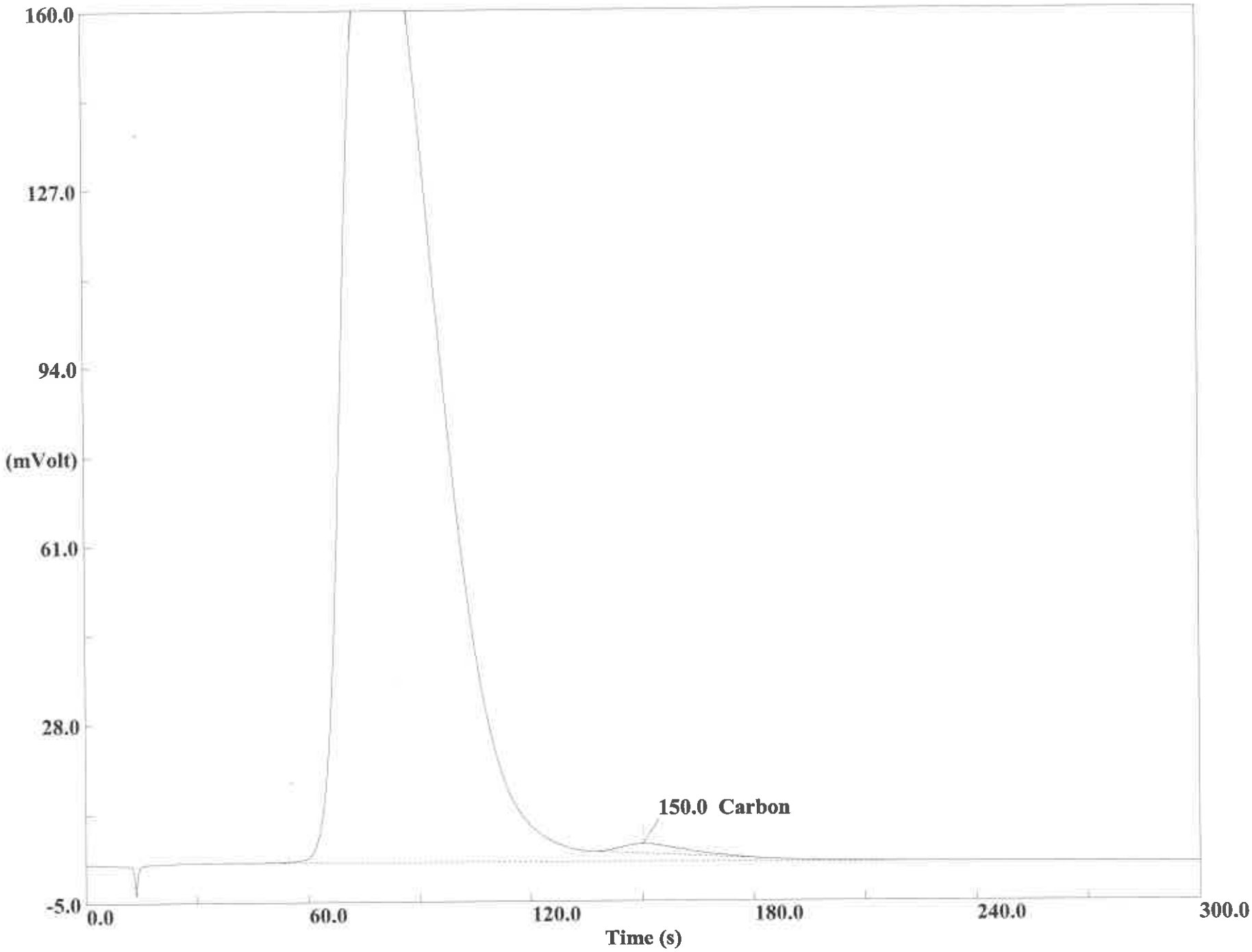
Page: 1 Sample: 180-82571-b-3 (A100418026)

Method Name : Lloyd Kahn
Method File : C:\data\January\100418.mth
Chromatogram : A100418026
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 17:21 Printed : 10/5/2018 08:32
Sample ID : 180-82571-b-3 (# 39)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 22

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	1.0716	153	487986	mi	1.000000	

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418027.DAT
Sample name :180-82571-b-4 Analysed :10/04/2018 17:26

Eager 300 Report

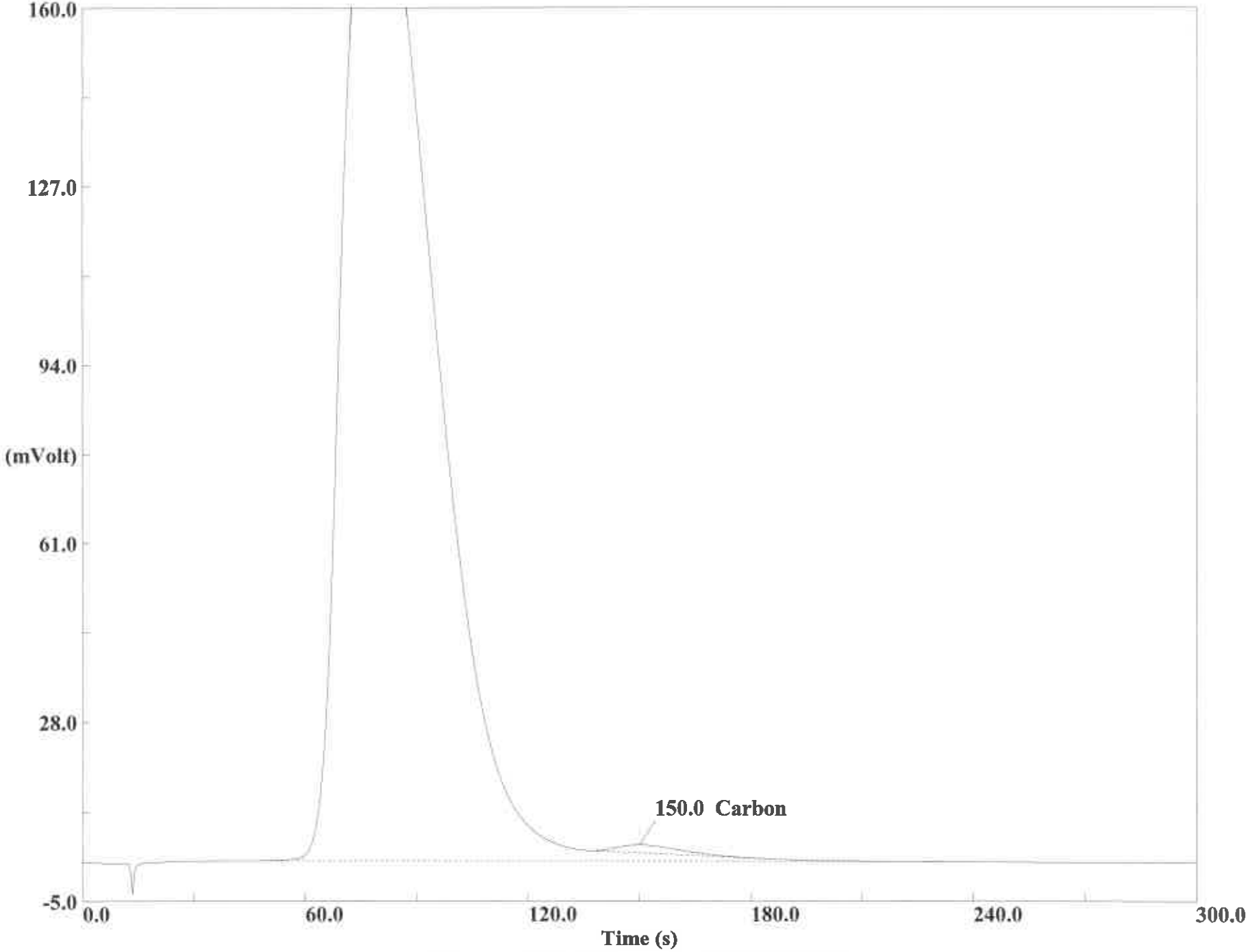
Page: 1 Sample: 180-82571-b-4 (A100418027)

Method Name : Lloyd Kahn
Method File : C:\data\January\100418.mth
Chromatogram : A100418027
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 17:26 Printed : 10/5/2018 08:32
Sample ID : 180-82571-b-4 (# 40)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 21.3

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.8355	150	353090	CR	1.000000	

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418028.DAT
Sample name :180-82571-b-4 Analysed :10/04/2018 17:32

Eager 300 Report

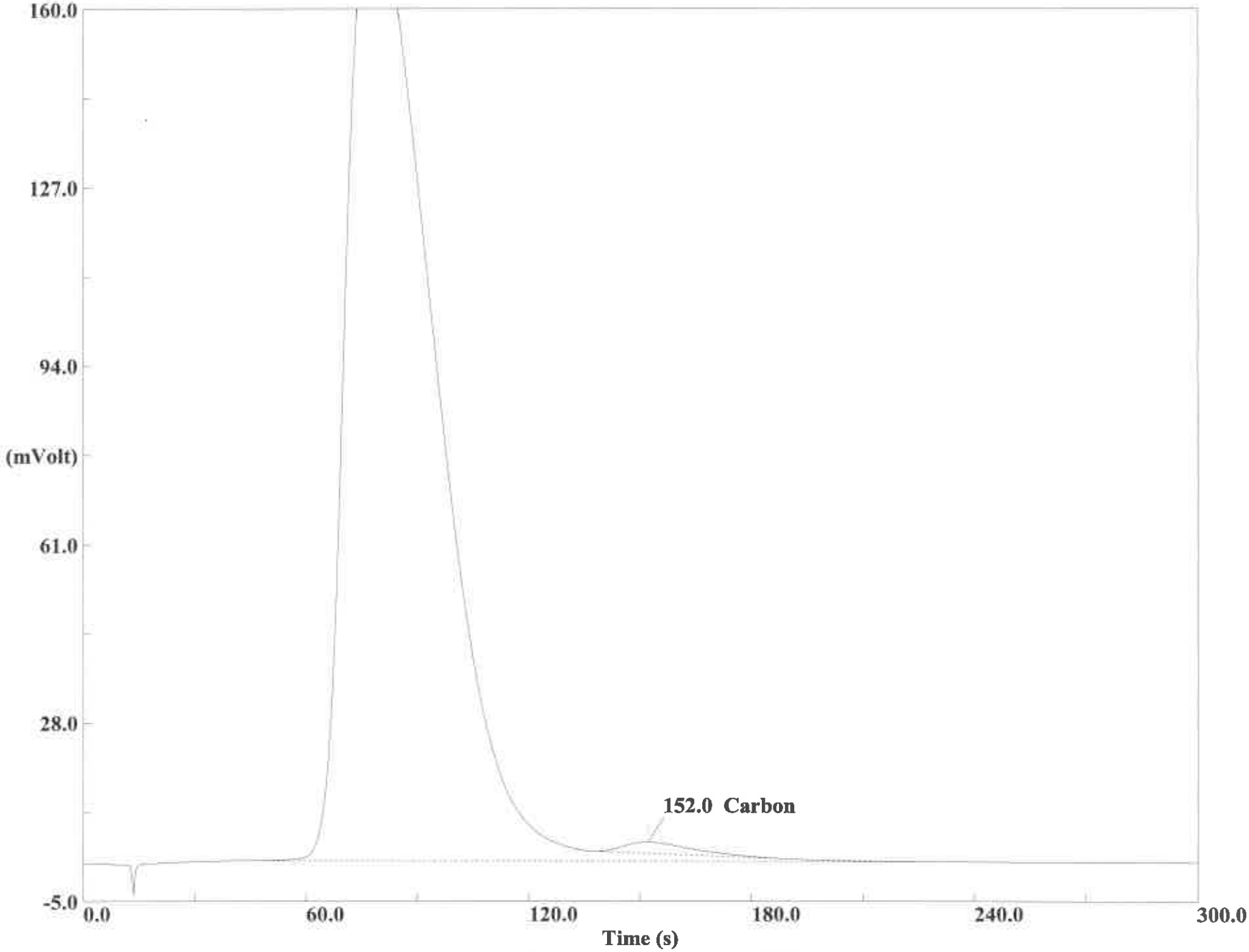
Page: 1 Sample: 180-82571-b-4 (A100418028)

Method Name : Lloyd Kahn
Method File : C:\data\January\100418.mth
Chromatogram : A100418028
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 17:32 Printed : 10/5/2018 08:32
Sample ID : 180-82571-b-4 (# 41)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20.2

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.7436	150	288334	CR	1.000000	

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418029.DAT
Sample name :180-82571-b-5 Analysed :10/04/2018 17:37

Eager 300 Report

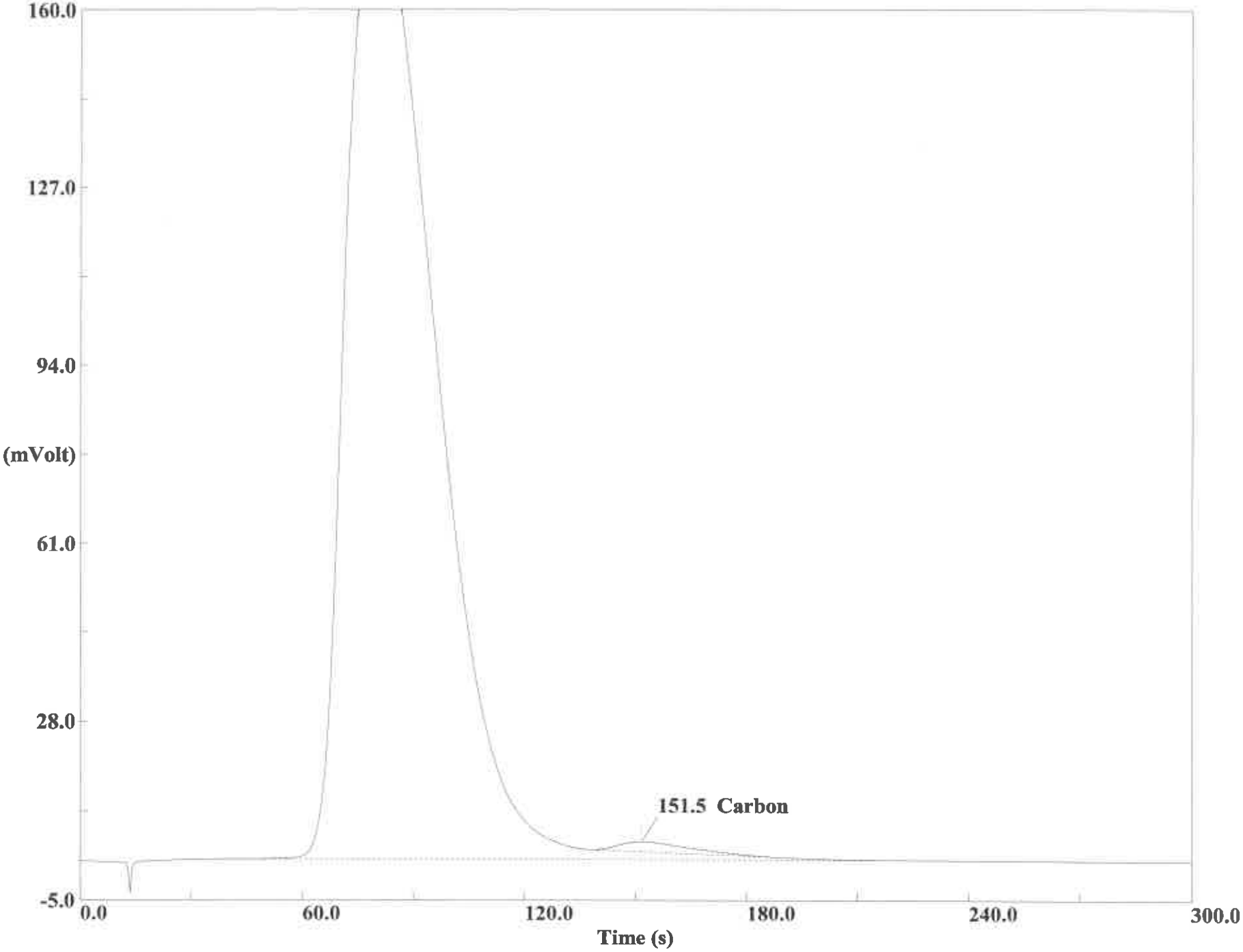
Page: 1 Sample: 180-82571-b-5 (A100418029)

Method Name : Lloyd Kahn
Method File : C:\data\January\100418.mth
Chromatogram : A100418029
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 17:37 Printed : 10/5/2018 08:32
Sample ID : 180-82571-b-5 (# 42)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 21.9

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	1.0002	152	448968	CR	1.000000	

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418030.DAT
Sample name :180-82571-b-5 Analysed :10/04/2018 17:42

Eager 300 Report

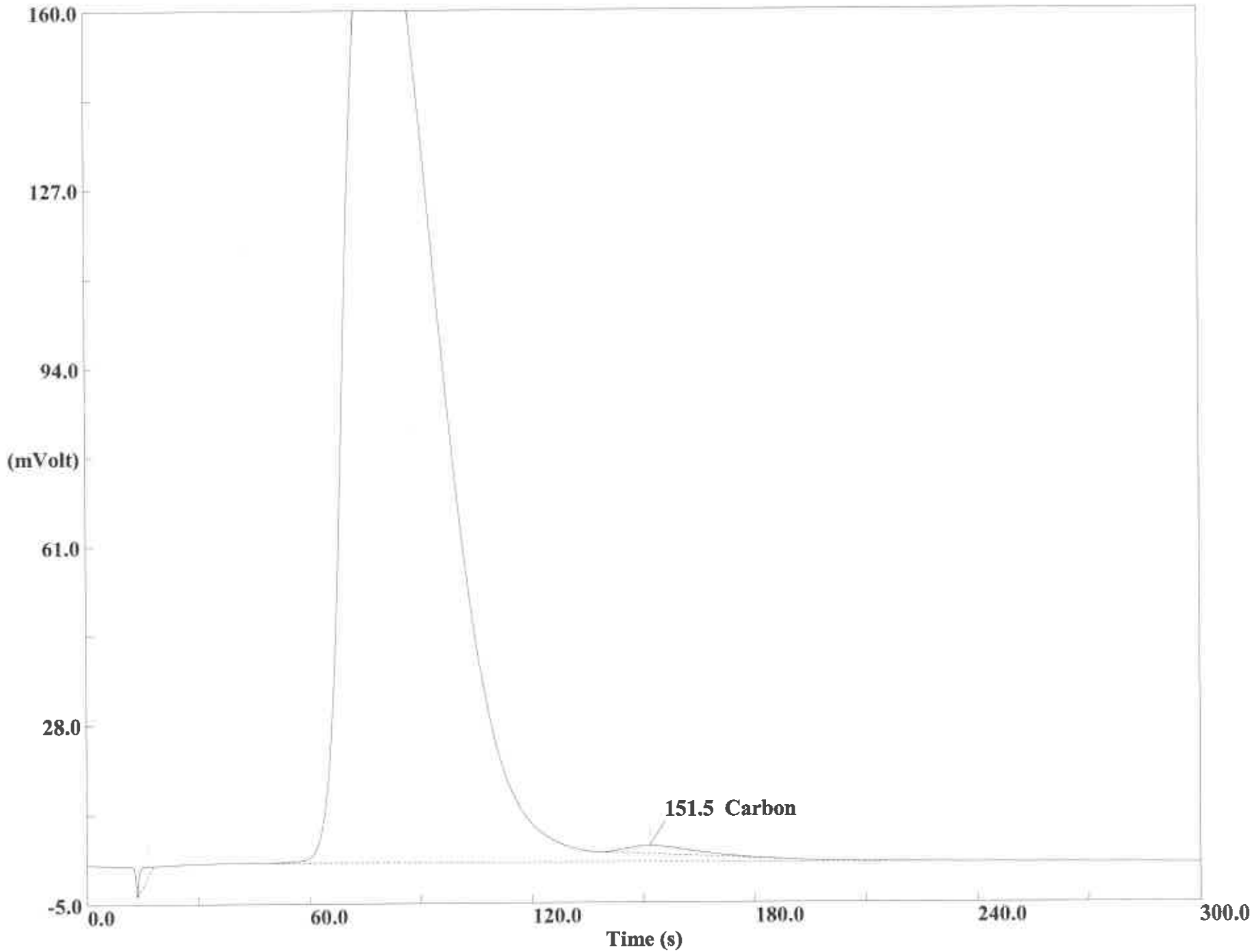
Page: 1 Sample: 180-82571-b-5 (A100418030)

Method Name : Lloyd Kahn
Method File : C:\data\January\100418.mth
Chromatogram : A100418030
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 17:42 Printed : 10/5/2018 08:32
Sample ID : 180-82571-b-5 (# 43)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20.8

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.9811	152	414029	CR	1.000000	

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418031.DAT
Sample name :180-82571-b-6 Analysed :10/04/2018 17:47

Eager 300 Report

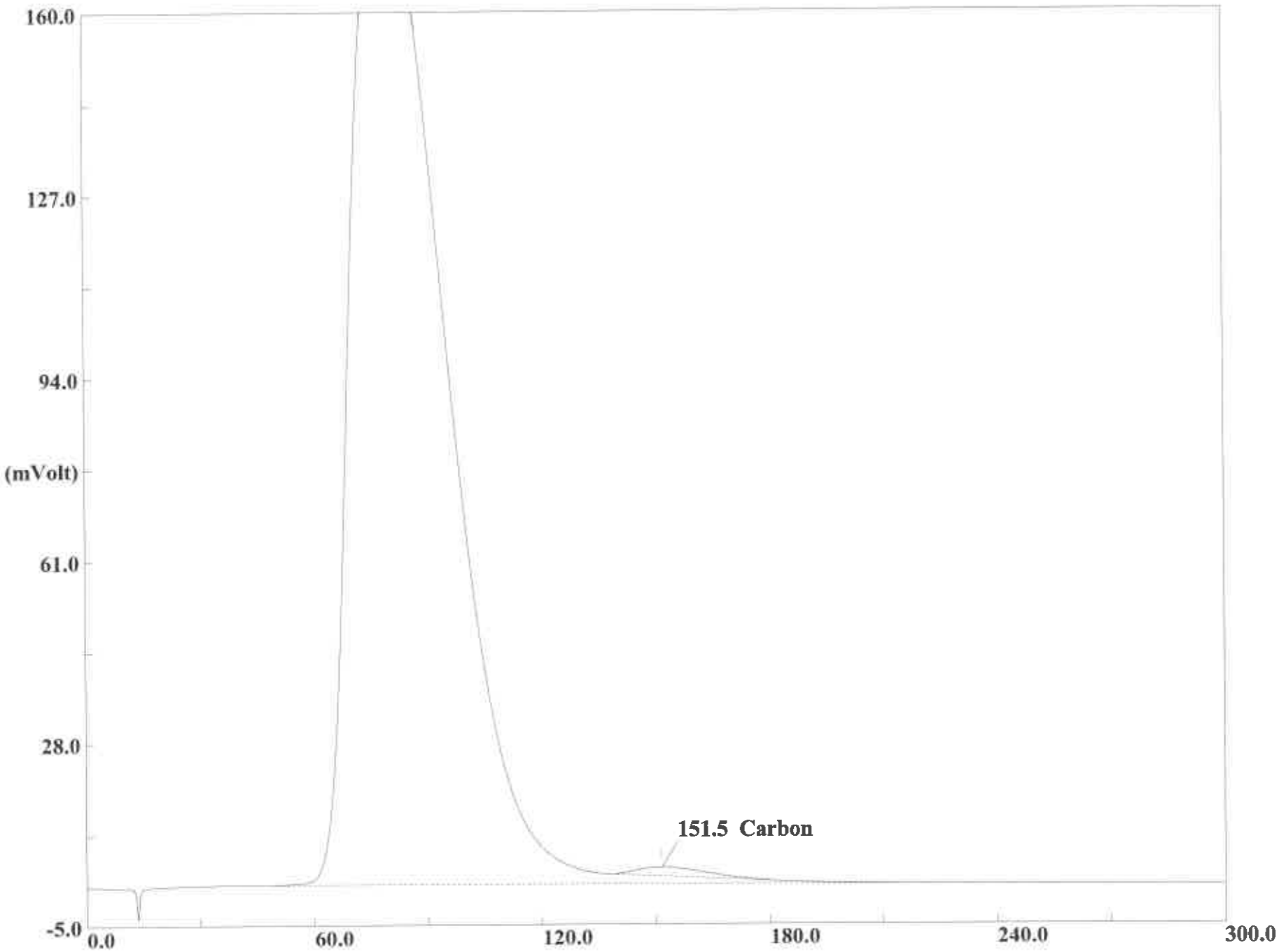
Page: 1 Sample: 180-82571-b-6 (A100418031)

Method Name : Lloyd Kahn
Method File : C:\data\January\100418.mth
Chromatogram : A100418031
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 17:47 Printed : 10/5/2018 08:32
Sample ID : 180-82571-b-6 (# 44)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20.8

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.7830	152	317865	CR	1.000000	

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418032.DAT
Sample name :180-82571-b-6 Analysed :10/04/2018 17:52

Eager 300 Report

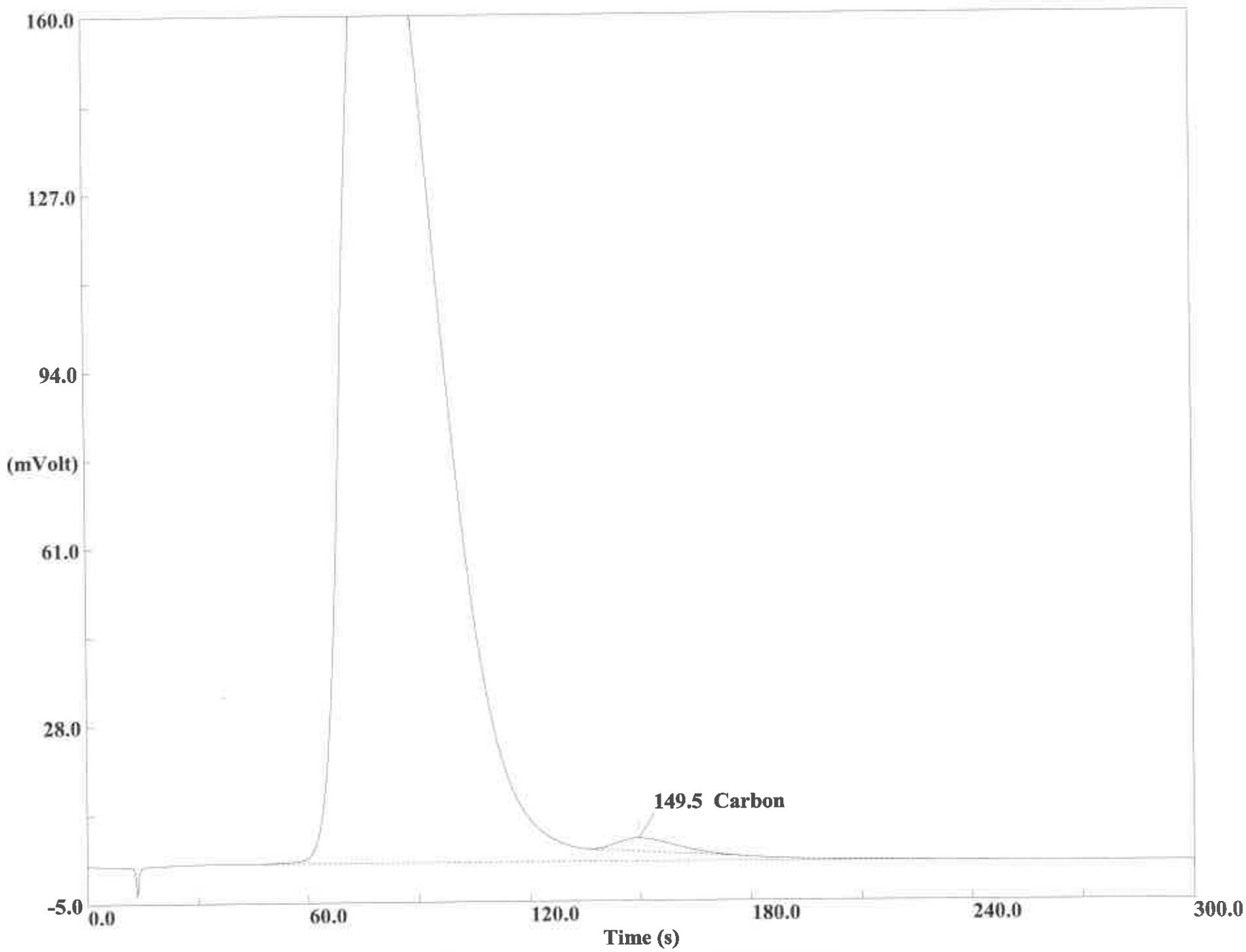
Page: 1 Sample: 180-82571-b-6 (A100418032)

Method Name : Lloyd Kahn
Method File : C:\data\January\100418.mth
Chromatogram : A100418032
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 17:52 Printed : 10/5/2018 08:33
Sample ID : 180-82571-b-6 (# 45)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20.3

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.8306	152	331281	CR	1.000000	

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418033.DAT
Sample name :180-82571-b-7 Analysed :10/04/2018 17:57

Eager 300 Report

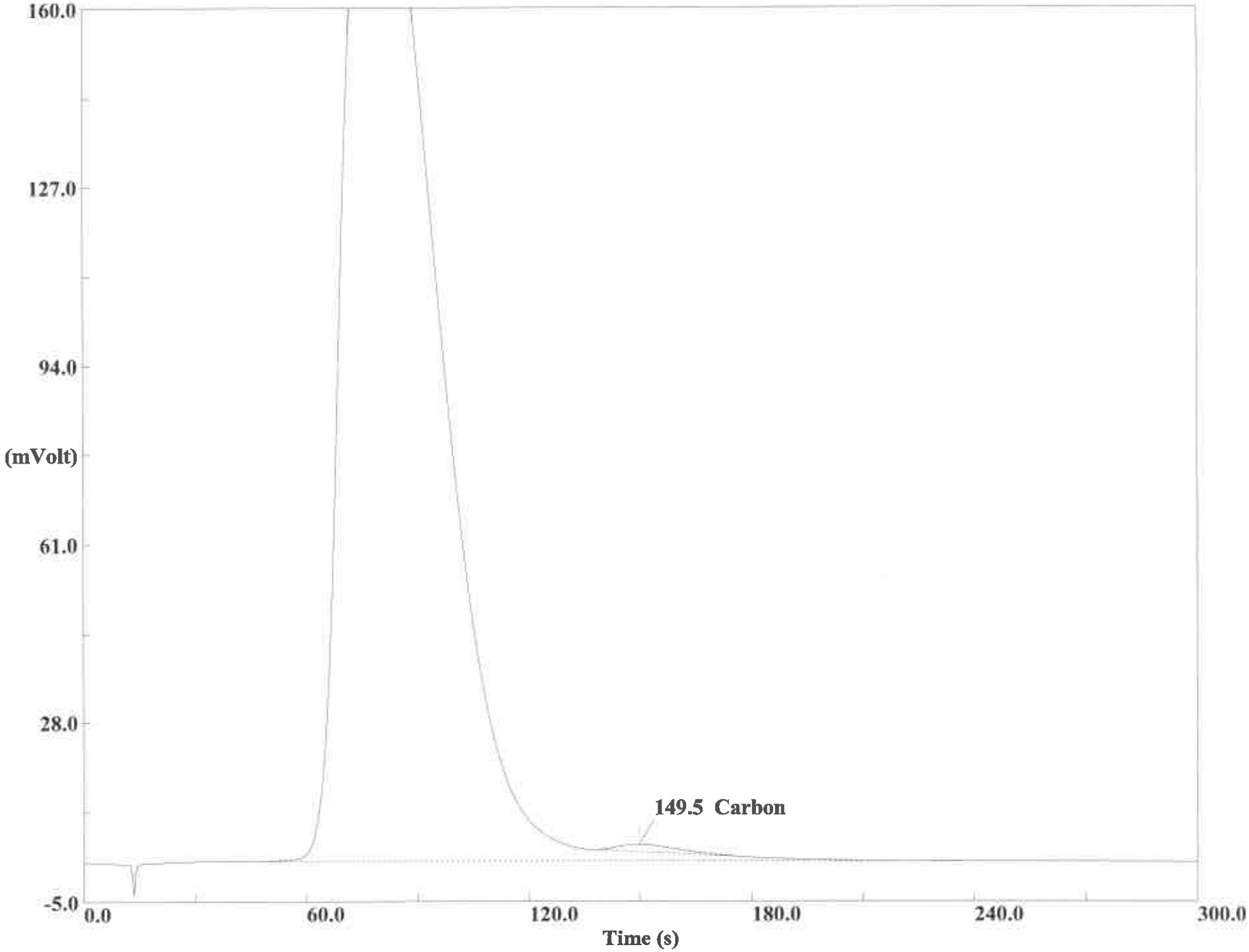
Page: 1 Sample: 180-82571-b-7 (A100418033)

Method Name : Lloyd Kahn
Method File : C:\data\January\100418.mth
Chromatogram : A100418033
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 17:57 Printed : 10/5/2018 08:33
Sample ID : 180-82571-b-7 (# 46)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20.4

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	1.0896	150	456522	CR	1.000000	

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418034.DAT
Sample name :180-82571-b-7 Analysed :10/04/2018 18:02

Eager 300 Report

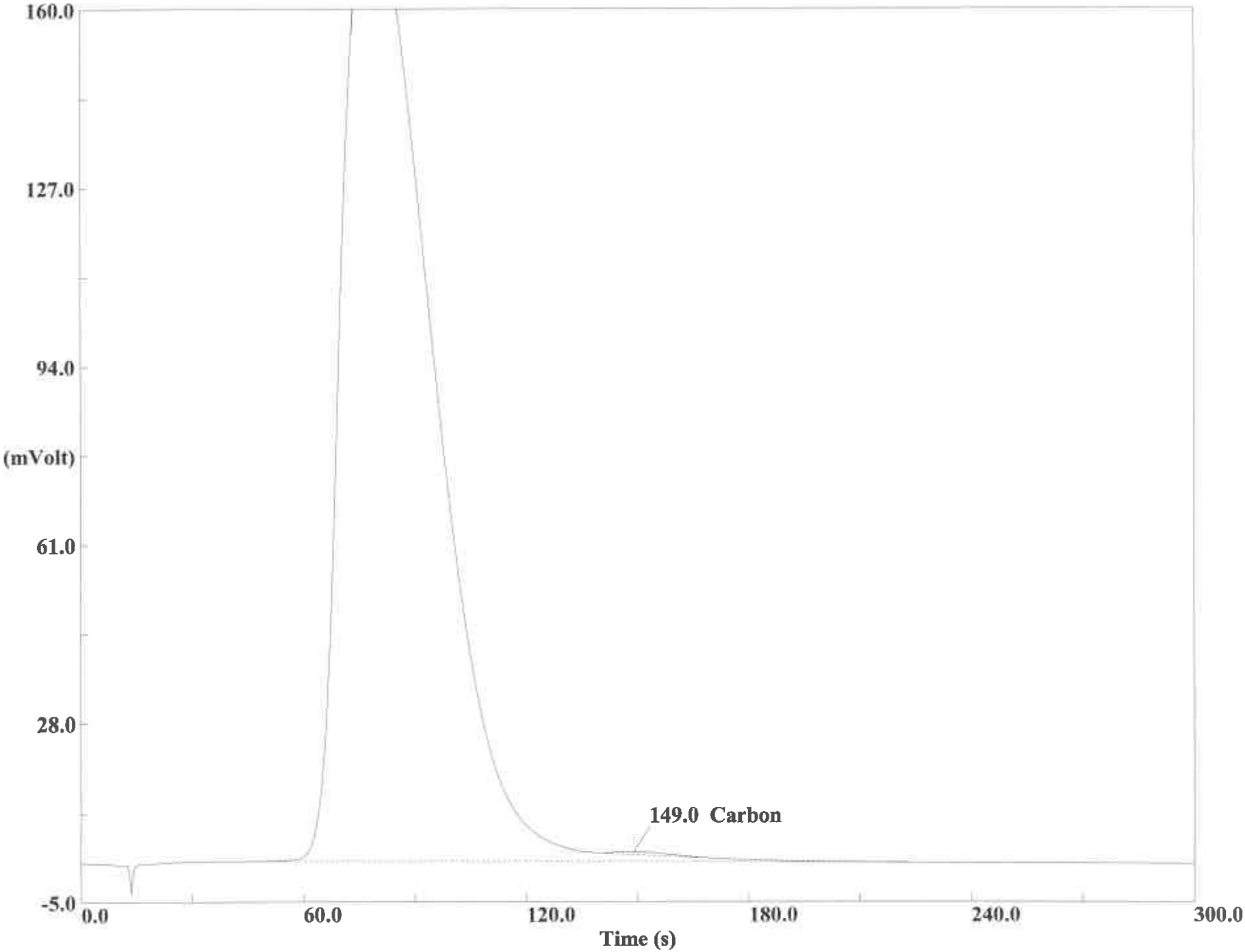
Page: 1 Sample: 180-82571-b-7 (A100418034)

Method Name : Lloyd Kahn
Method File : C:\data\January\100418.mth
Chromatogram : A100418034
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 18:02 Printed : 10/5/2018 08:33
Sample ID : 180-82571-b-7 (# 47)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20.8

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.6613	150	258774	CR	1.000000	

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418035.DAT
Sample name :180-82571-b-9 Analysed :10/04/2018 18:07

Eager 300 Report

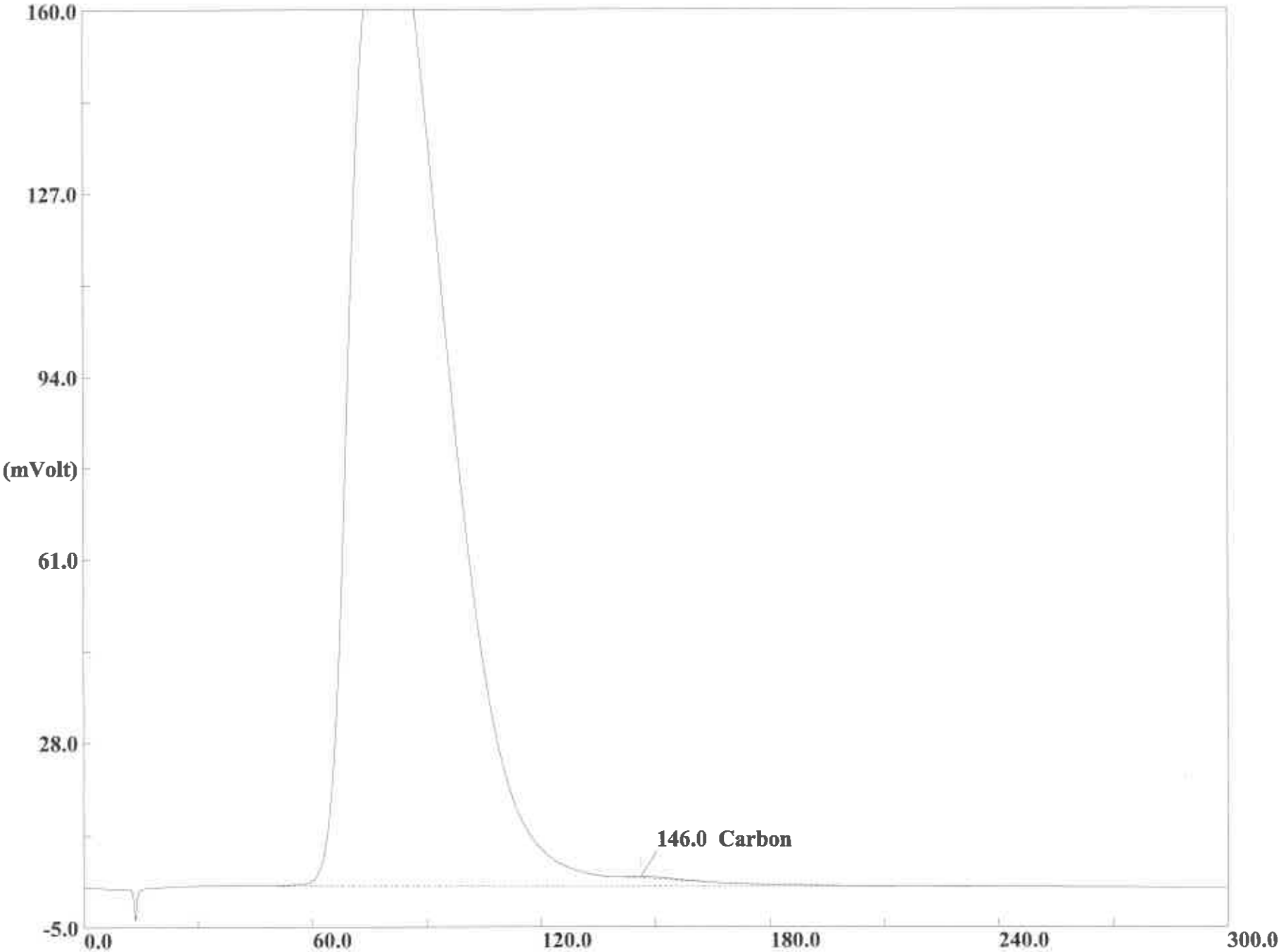
Page: 1 Sample: 180-82571-b-9 (A100418035)

Method Name : Lloyd Kahn
Method File : C:\data\January\100418.mth
Chromatogram : A100418035
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 18:07 Printed : 10/5/2018 08:33
Sample ID : 180-82571-b-9 (# 48)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20.9

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.2905	149	79484	CR	1.000000	

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418036.DAT
Sample name :180-82571-b-9 Analysed :10/04/2018 18:12

Eager 300 Report

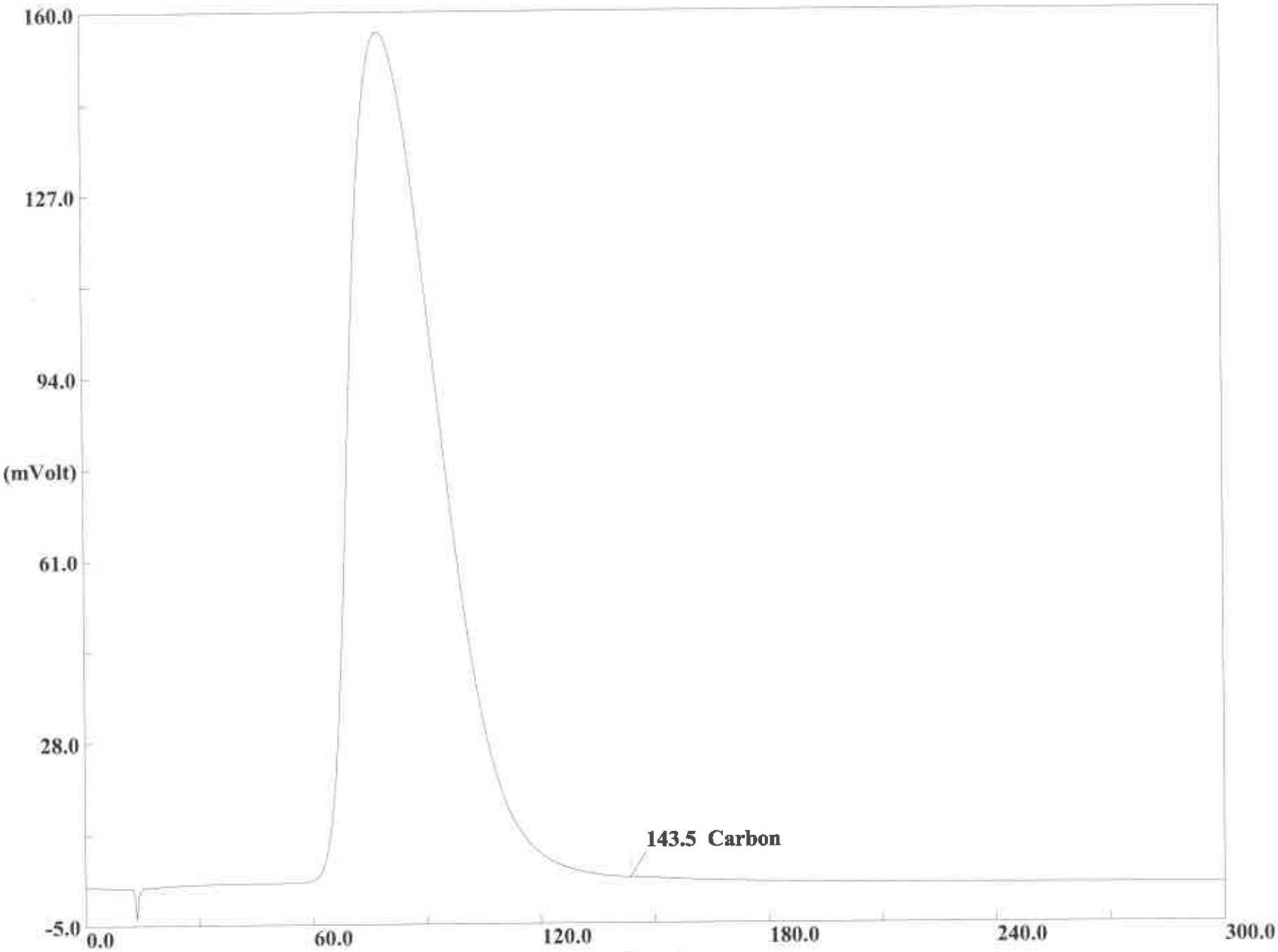
Page: 1 Sample: 180-82571-b-9 (A100418036)

Method Name : Lloyd Kahn
Method File : C:\data\January\100418.mth
Chromatogram : A100418036
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 18:12 Printed : 10/5/2018 08:33
Sample ID : 180-82571-b-9 (# 49)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 21.1

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.1993	146	35903	CR	1.000000	

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418037.DAT
Sample name :180-82571-b-10 Analysed :10/04/2018 18:17

Eager 300 Report

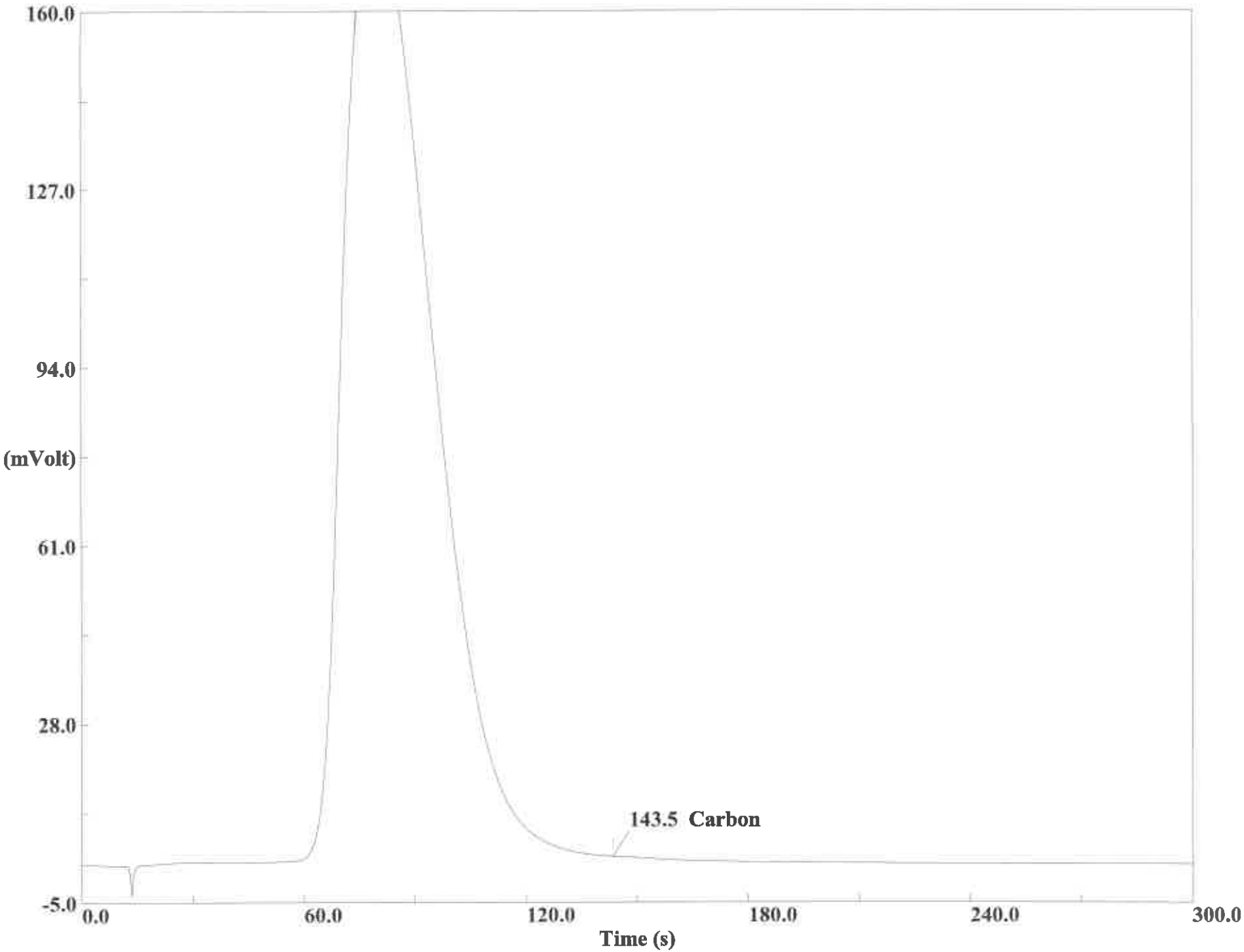
Page: 1 Sample: 180-82571-b-10 (A100418037)

Method Name : Lloyd Kahn
Method File : C:\data\January\100418.mth
Chromatogram : A100418037
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 18:17 Printed : 10/5/2018 08:33
Sample ID : 180-82571-b-10 (# 50)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 21.1

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.1301	144	1834	mi	1.000000	

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418038.DAT
Sample name :180-82571-b-10 Analysed :10/04/2018 18:22

Eager 300 Report

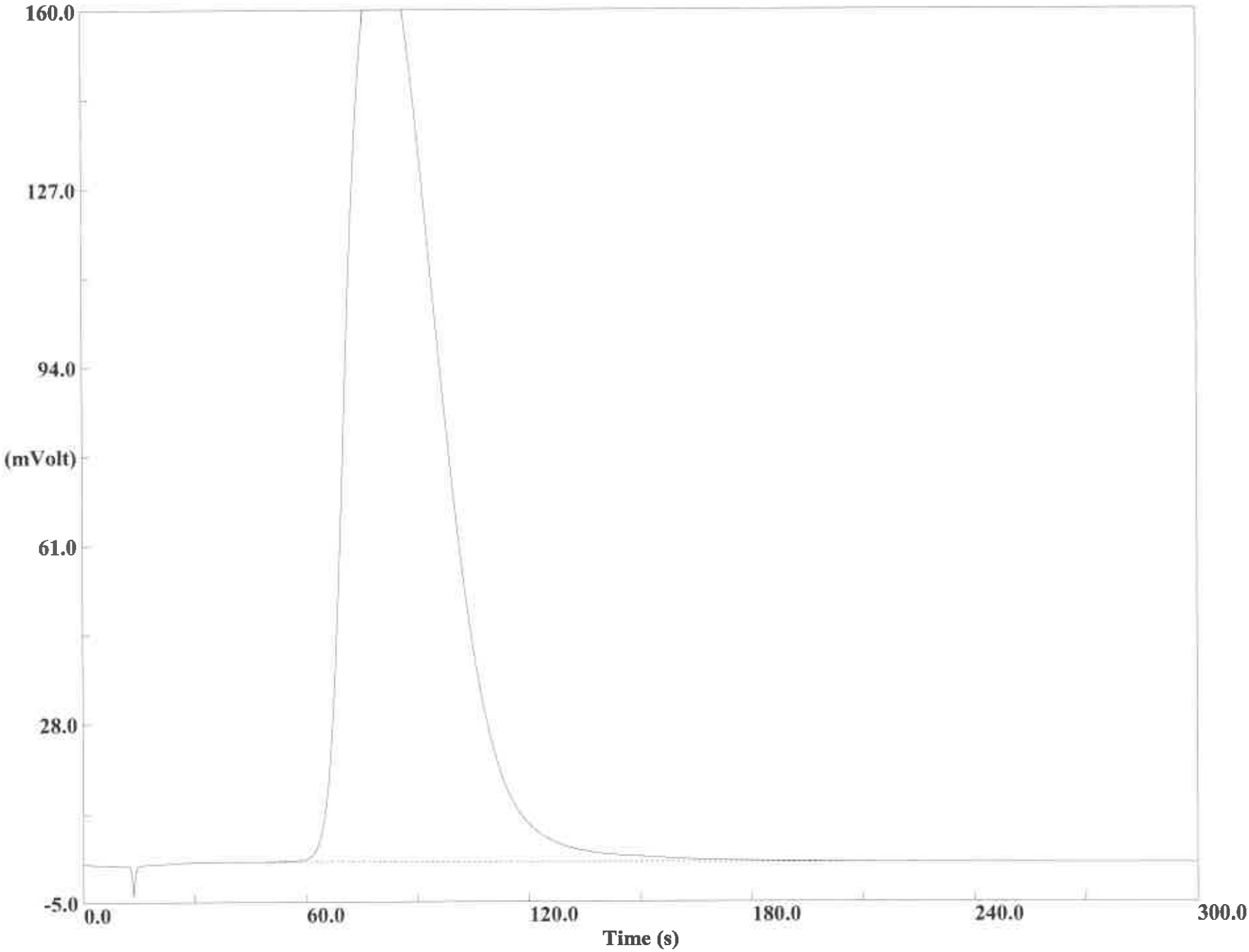
Page: 1 Sample: 180-82571-b-10 (A100418038)

Method Name : Lloyd Kahn
Method File : C:\data\January\100418.mth
Chromatogram : A100418038
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 18:22 Printed : 10/5/2018 08:33
Sample ID : 180-82571-b-10 (# 51)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 22.4

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.1199	144	441	mi	1.000000	

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418039.DAT
Sample name :490-160269-a-1 Analysed :10/04/2018 18:27

Eager 300 Report

Page: 1 Sample: 490-160269-a-1 (A100418039)

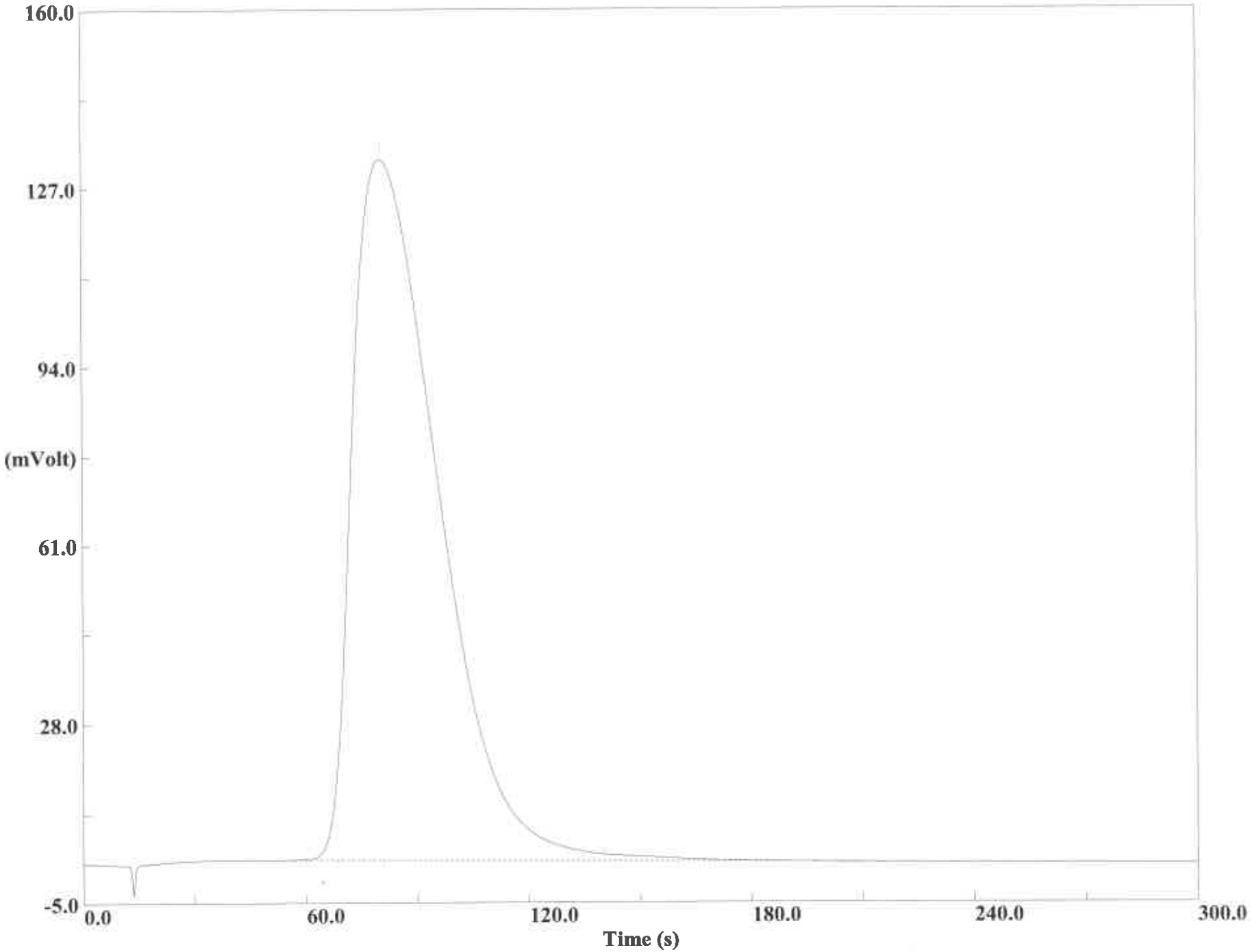
Method Name : Lloyd Kahn
Method File : C:\data\January\100418.mth
Chromatogram : A100418039
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 18:27 Printed : 10/5/2018 08:33
Sample ID : 490-160269-a-1 (# 52)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20

Calib. method : using 'Least Squares to Linear fit'

!!! Warning missing one or more peaks.

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418040.DAT
Sample name :490-160269-a-1 Analysed :10/04/2018 18:32

Eager 300 Report

Page: 1 Sample: 490-160269-a-1 (A100418040)

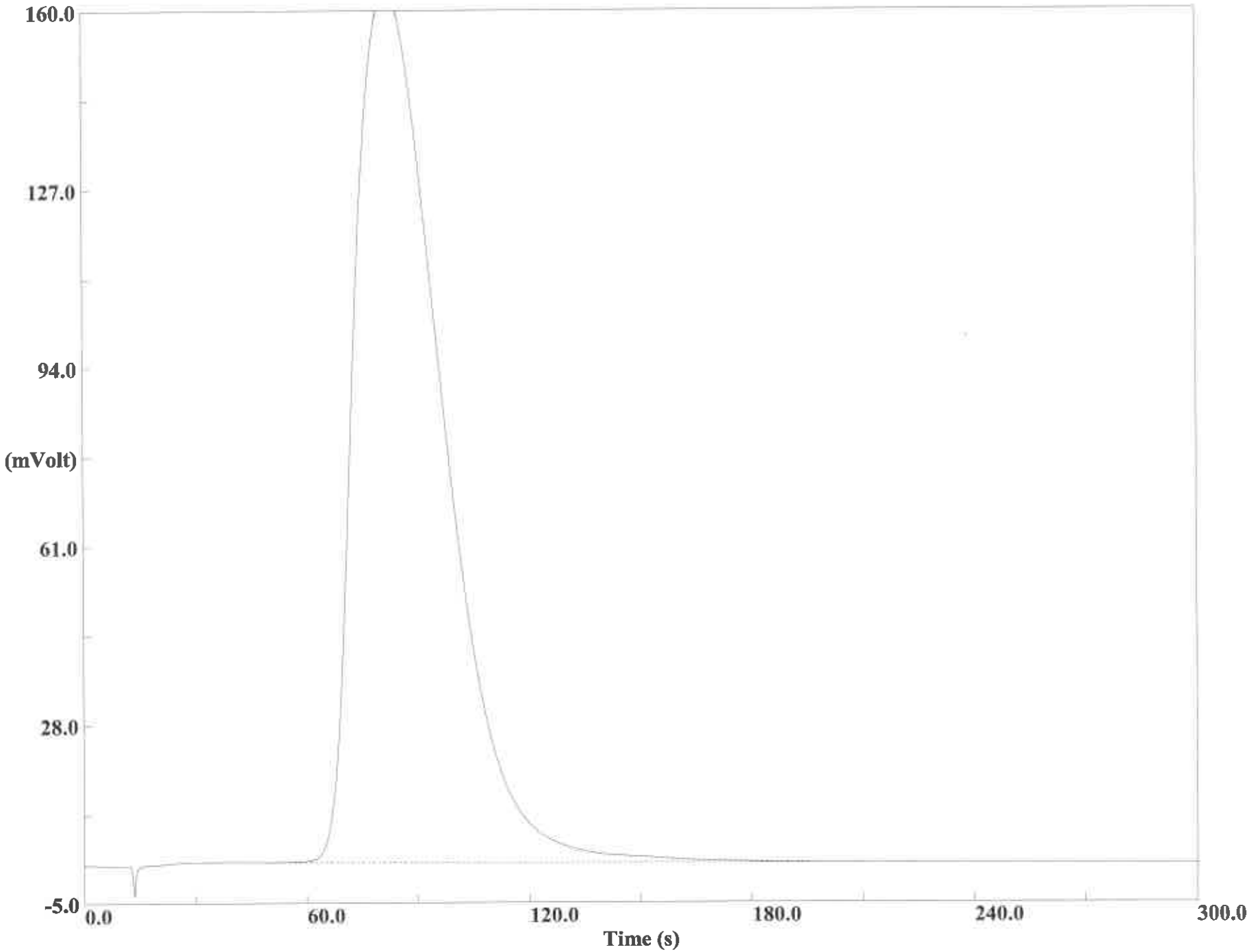
Method Name : Lloyd Kahn
Method File : C:\data\January\100418.mth
Chromatogram : A100418040
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 18:32 Printed : 10/5/2018 08:33
Sample ID : 490-160269-a-1 (# 53)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 22.8

Calib. method : using 'Least Squares to Linear fit'

!!! Warning missing one or more peaks.

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418041.DAT
Sample name :490-160269-c-2 Analysed :10/04/2018 18:37

Eager 300 Report

Page: 1 Sample: 490-160269-c-2 (A100418041)

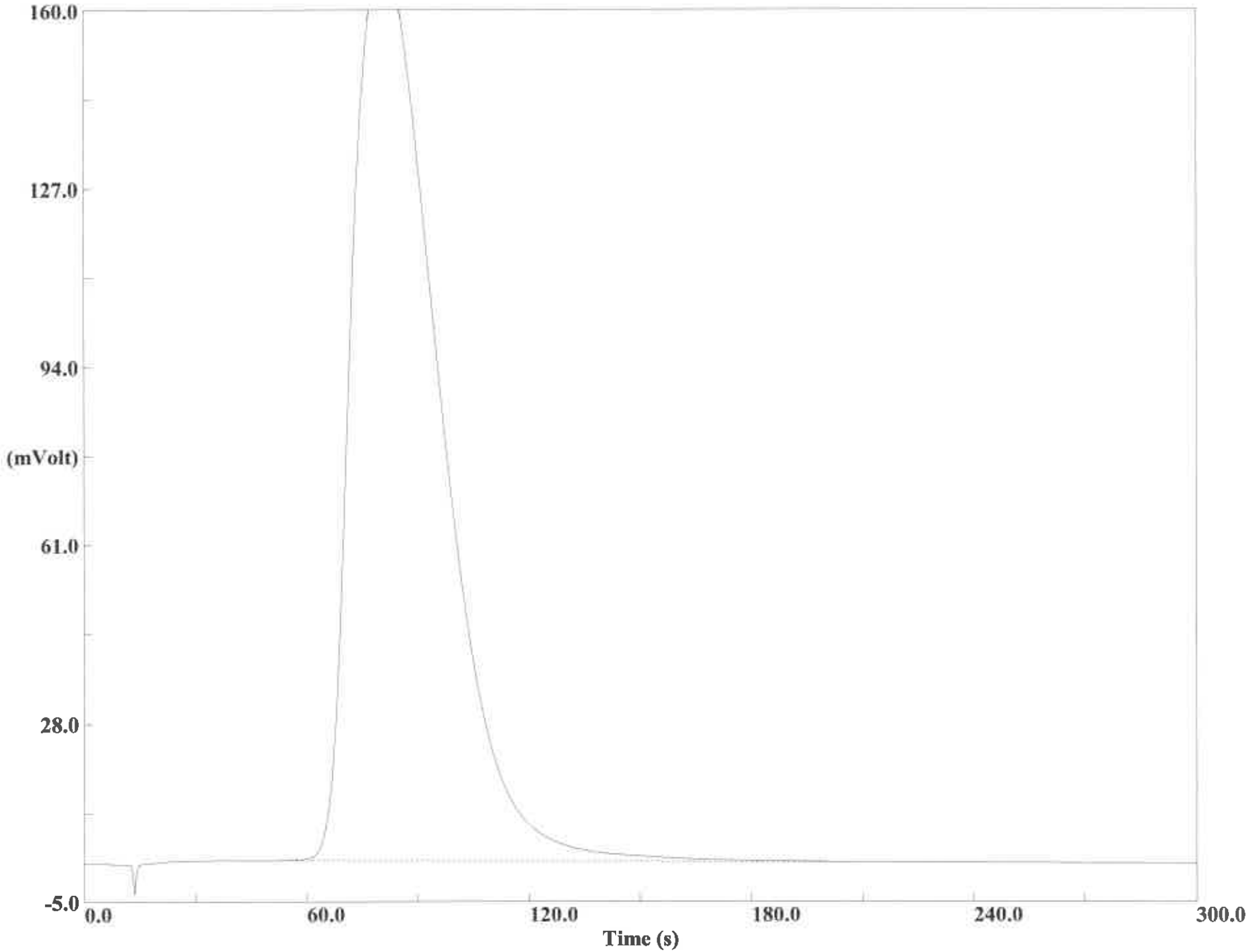
Method Name : Lloyd Kahn
Method File : C:\data\January\100418.mth
Chromatogram : A100418041
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 18:37 Printed : 10/5/2018 08:33
Sample ID : 490-160269-c-2 (# 54)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 21.7

Calib. method : using 'Least Squares to Linear fit'

!!! Warning missing one or more peaks.

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418042.DAT
Sample name :490-160269-c-2 Analysed :10/04/2018 18:43

Eager 300 Report

Page: 1 Sample: 490-160269-c-2 (A100418042)

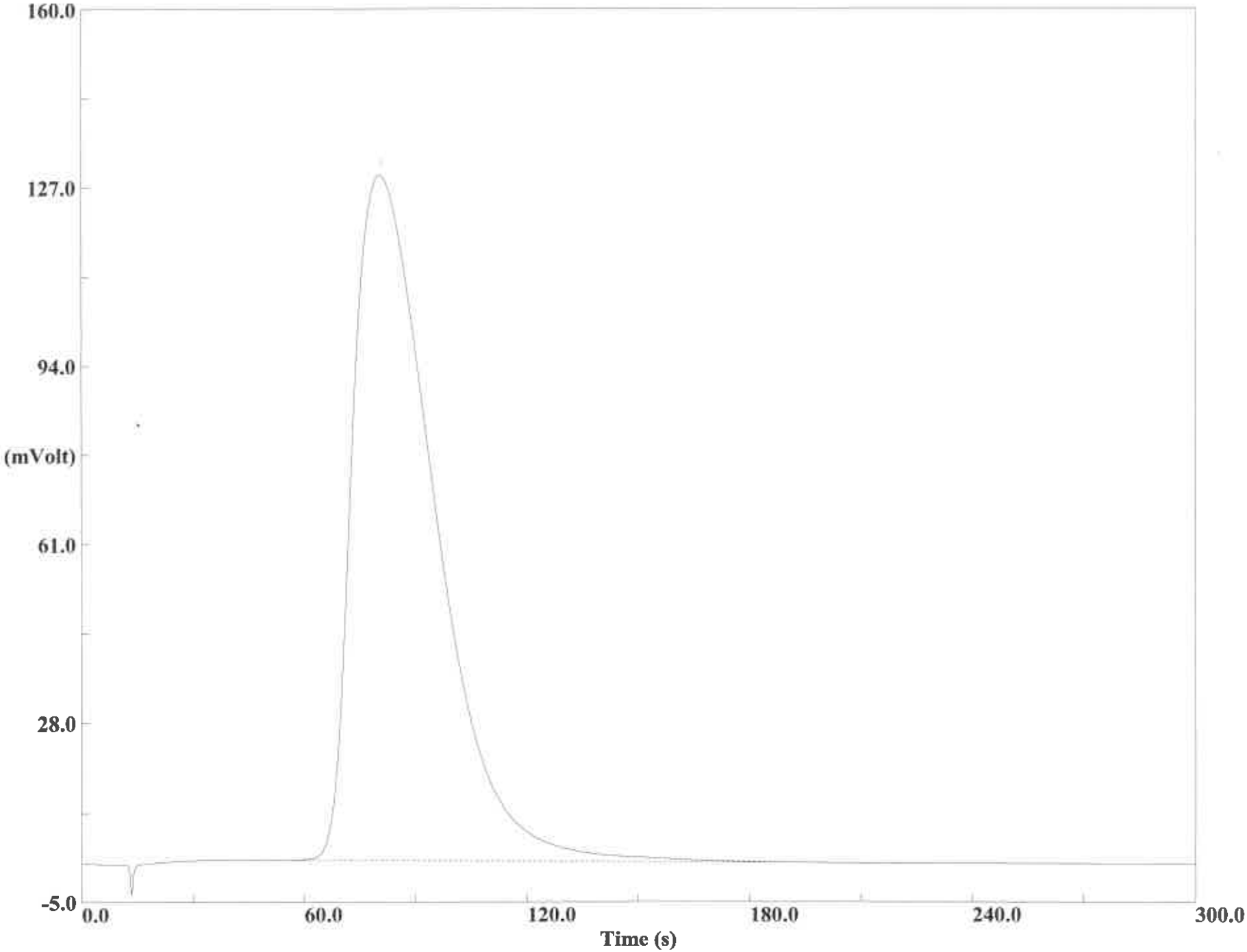
Method Name : Lloyd Kahn
Method File : C:\data\January\100418.mth
Chromatogram : A100418042
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 18:43 Printed : 10/5/2018 08:33
Sample ID : 490-160269-c-2 (# 55)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 22

Calib. method : using 'Least Squares to Linear fit'

!!! Warning missing one or more peaks.

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418043.DAT
Sample name :490-160269-a-3 Analysed :10/04/2018 18:48

Eager 300 Report

Page: 1 Sample: 490-160269-a-3 (A100418043)

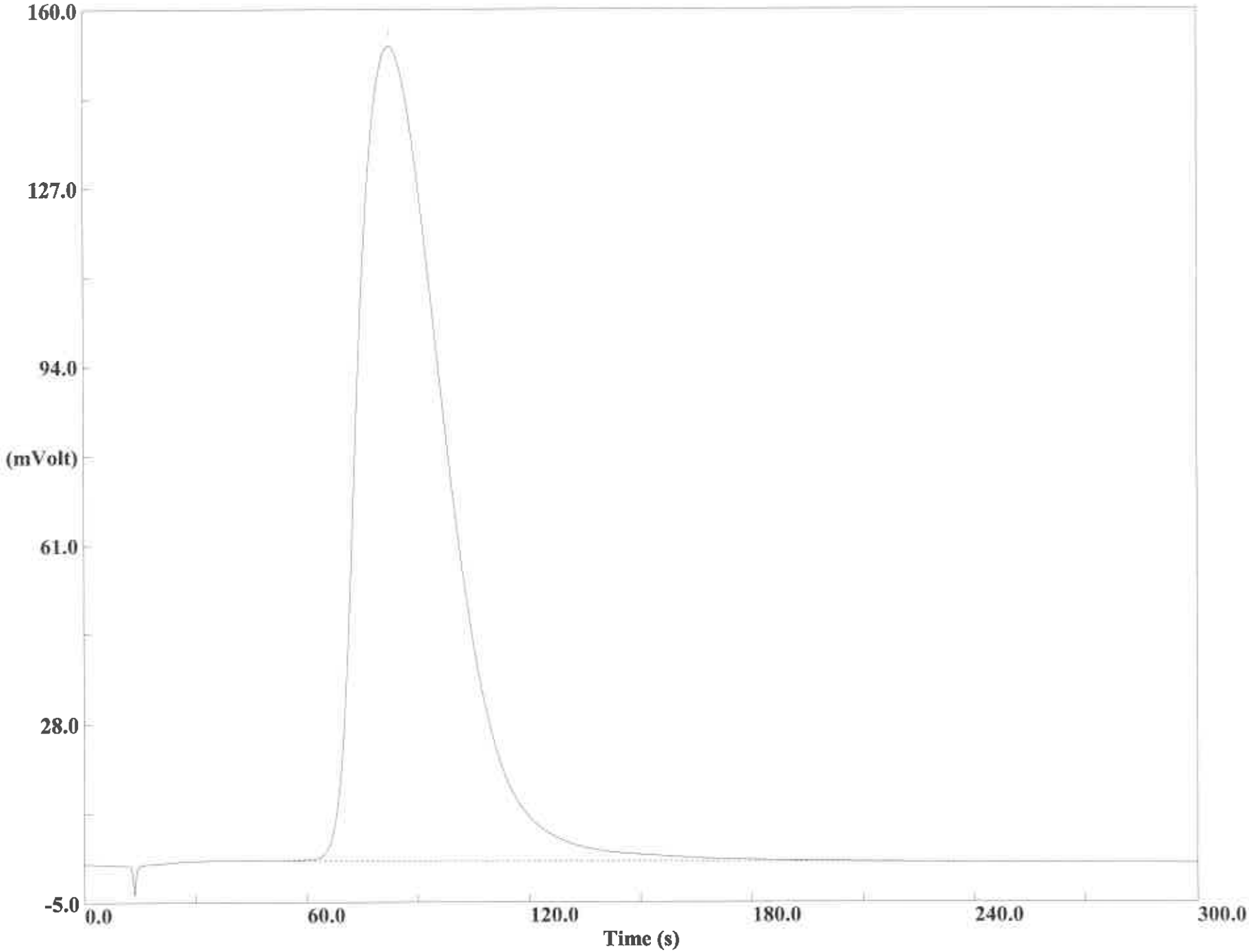
Method Name : Lloyd Kahn
Method File : C:\data\January\100418.mth
Chromatogram : A100418043
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 18:48 Printed : 10/5/2018 08:33
Sample ID : 490-160269-a-3 (# 56)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 21.8

Calib. method : using 'Least Squares to Linear fit'

!!! Warning missing one or more peaks.

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418044.DAT
Sample name :490-160269-a-3 Analysed :10/04/2018 18:53

Eager 300 Report

Page: 1 Sample: 490-160269-a-3 (A100418044)

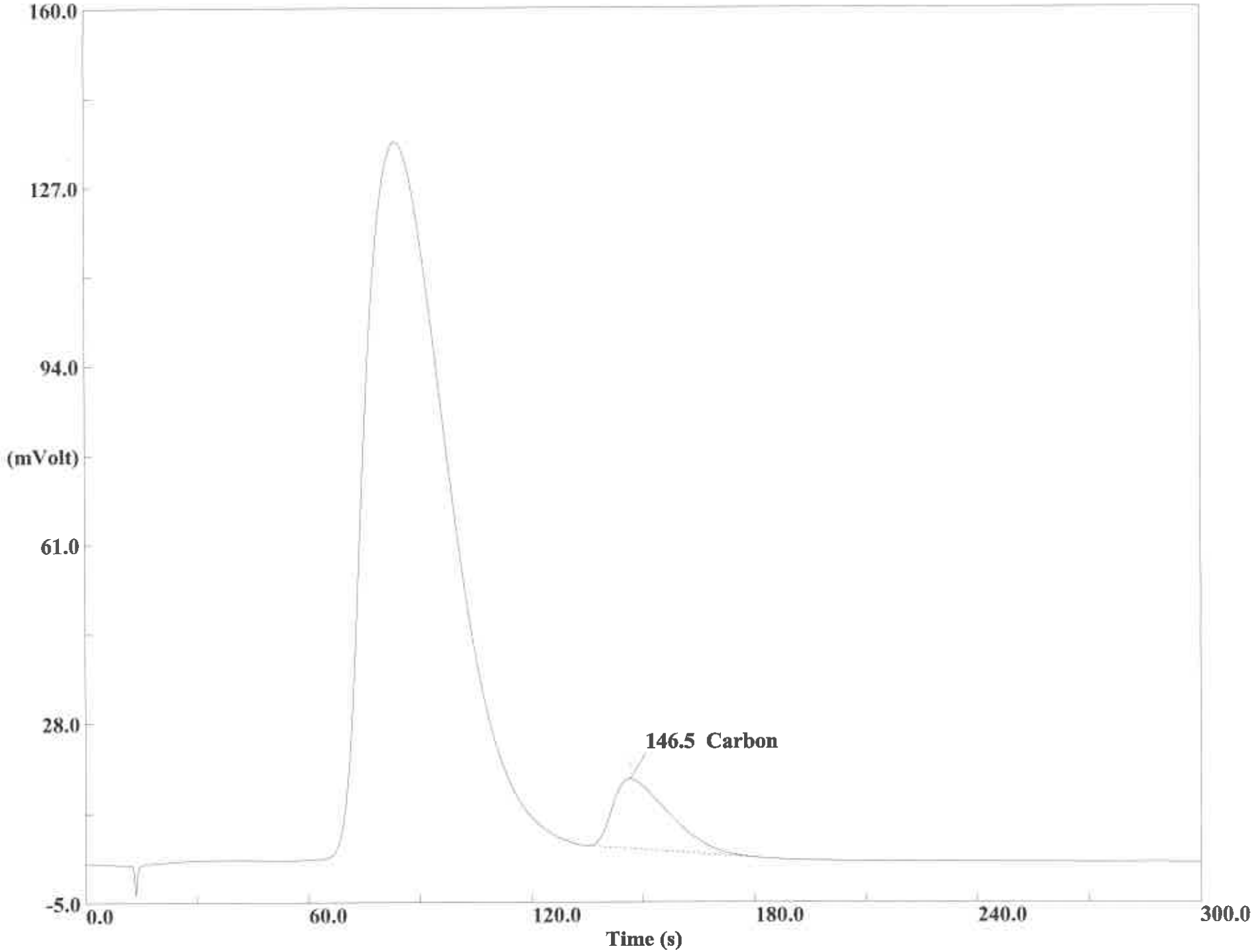
Method Name : Lloyd Kahn
Method File : C:\data\January\100418.mth
Chromatogram : A100418044
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 18:53 Printed : 10/5/2018 08:33
Sample ID : 490-160269-a-3 (# 57)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 21.2

Calib. method : using 'Least Squares to Linear fit'

!!! Warning missing one or more peaks.

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418045.DAT
Sample name :ccv Analysed :10/04/2018 18:58

Eager 300 Report

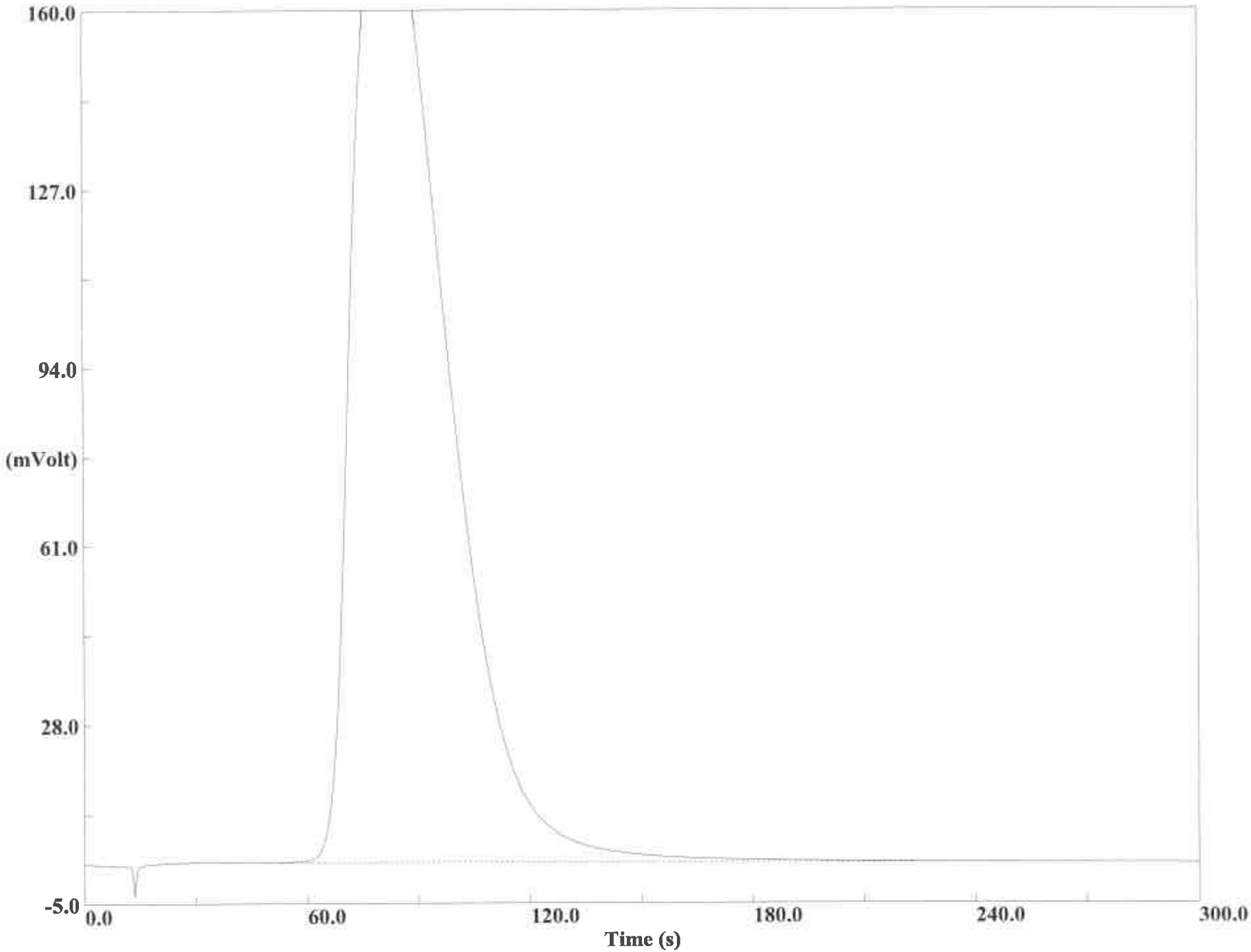
Page: 1 Sample: ccv (A100418045)

Method Name : Lloyd Kahn
Method File : C:\data\January\100418.mth
Chromatogram : A100418045
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 18:58 Printed : 10/5/2018 08:33
Sample ID : ccv (# 58)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 100

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.9781	147	2220442	mi	1.000000	

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418046.DAT
Sample name :ccb Analysed :10/04/2018 19:03

Eager 300 Report

Page: 1 Sample: ccb (A100418046)

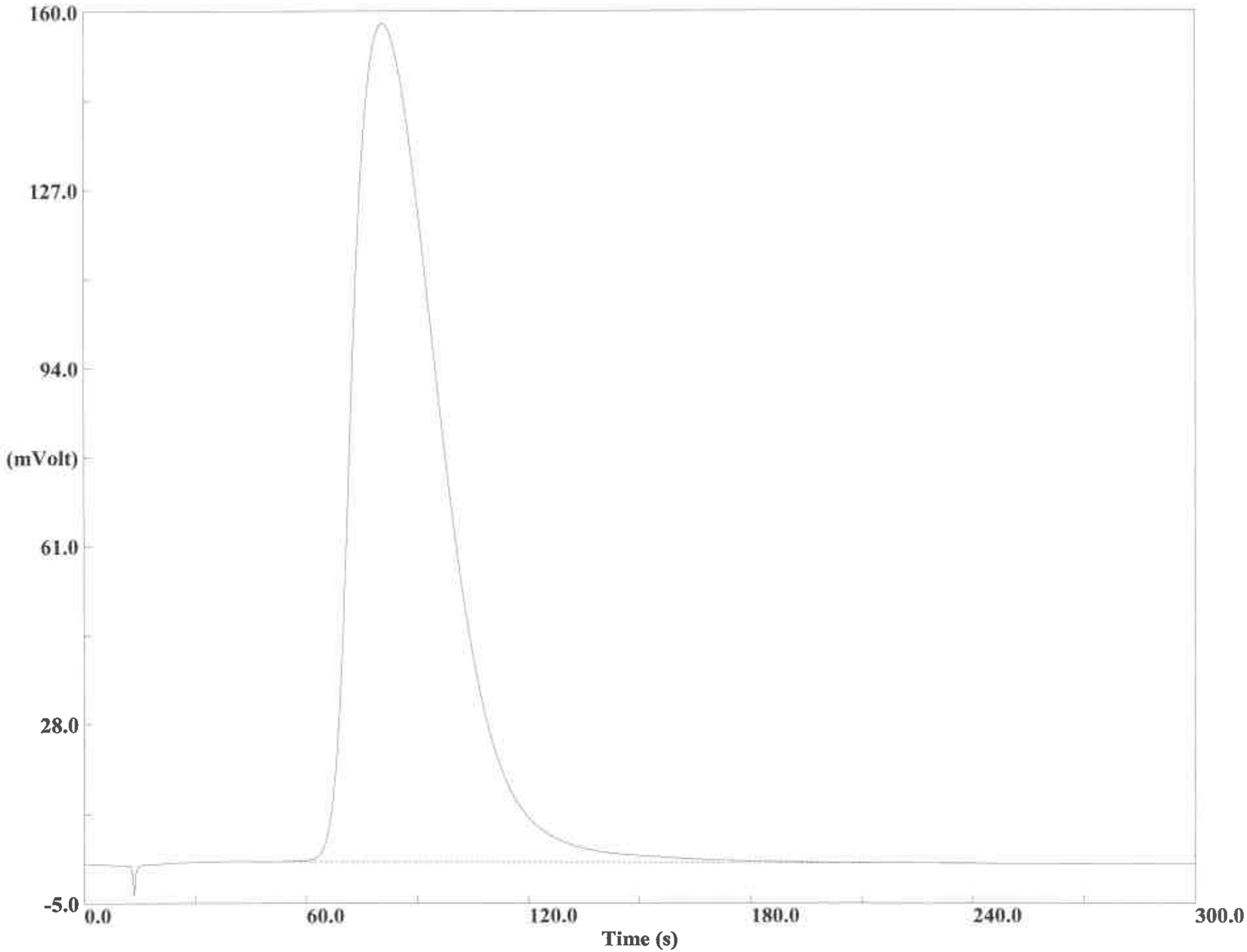
Method Name : Lloyd Kahn
Method File : C:\data\January\100418.mth
Chromatogram : A100418046
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 19:03 Printed : 10/5/2018 08:33
Sample ID : ccb (# 59)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20

Calib. method : using 'Least Squares to Linear fit'

!!! Warning missing one or more peaks.

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418047.DAT
Sample name :490-160269-c-4 Analysed :10/04/2018 19:08

Eager 300 Report

Page: 1 Sample: 490-160269-c-4 (A100418047)

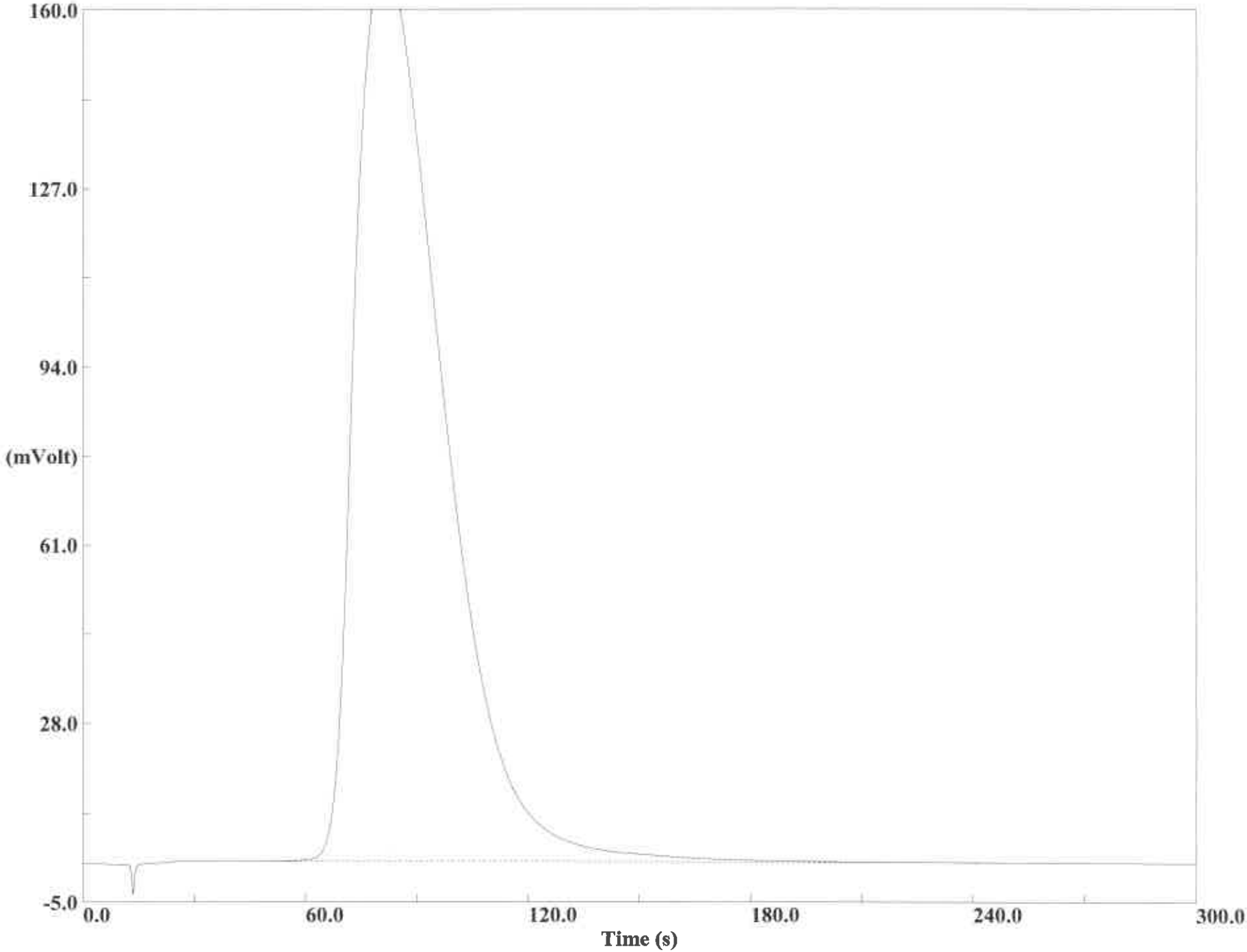
Method Name : Lloyd Kahn
Method File : C:\data\January\100418.mth
Chromatogram : A100418047
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 19:08 Printed : 10/5/2018 08:34
Sample ID : 490-160269-c-4 (# 60)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 21.9

Calib. method : using 'Least Squares to Linear fit'

!!! Warning missing one or more peaks.

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418048.DAT
Sample name :490-160269-c-4 Analysed :10/04/2018 19:13

Eager 300 Report

Page: 1 Sample: 490-160269-c-4 (A100418048)

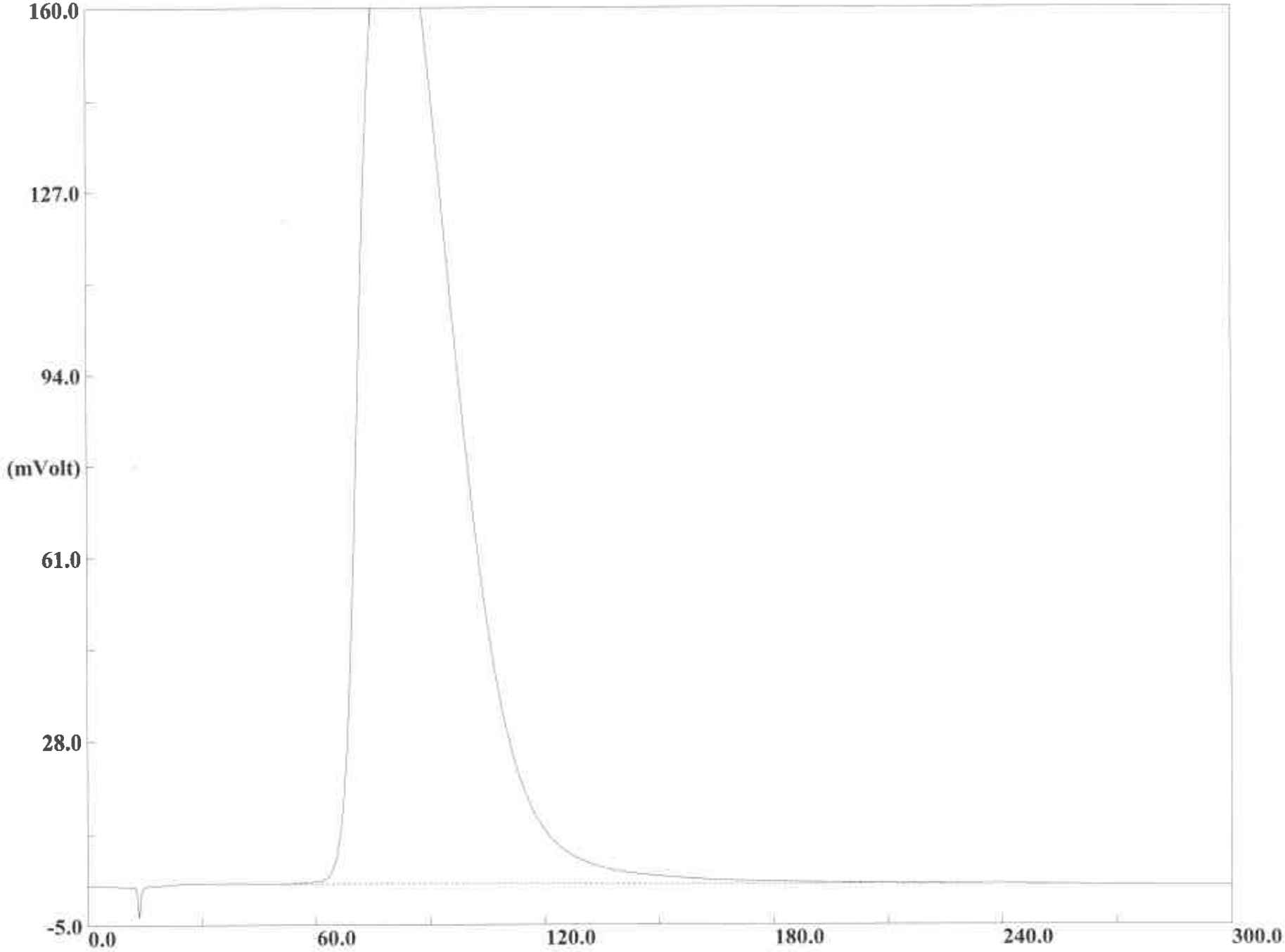
Method Name : Lloyd Kahn
Method File : C:\data\January\100418.mth
Chromatogram : A100418048
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 19:13 Printed : 10/5/2018 08:34
Sample ID : 490-160269-c-4 (# 61)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 23

Calib. method : using 'Least Squares to Linear fit'

!!! Warning missing one or more peaks.

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418049.DAT
Sample name :490-160269-a-5 Analysed :10/04/2018 19:18

Eager 300 Report

Page: 1 Sample: 490-160269-a-5 (A100418049)

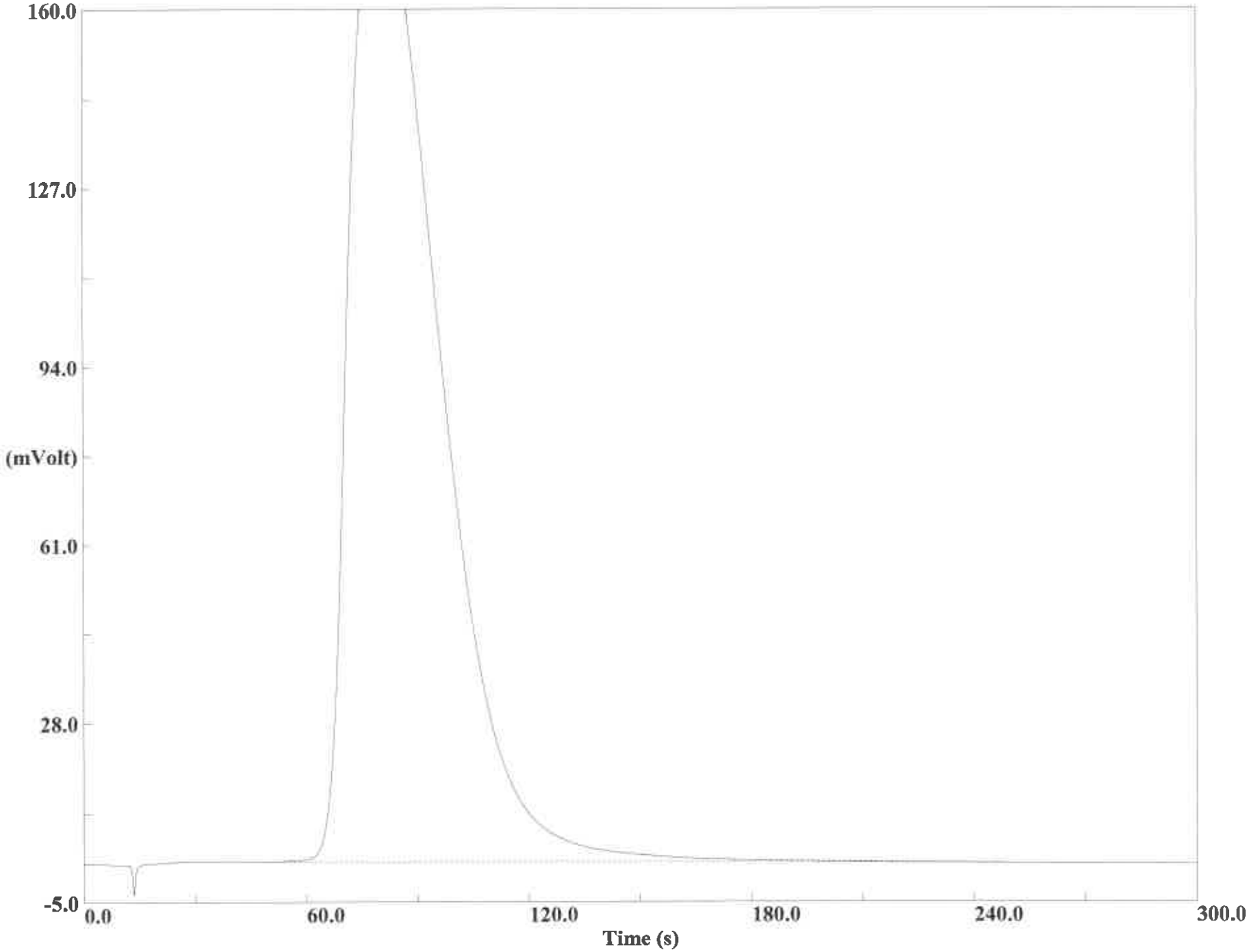
Method Name : Lloyd Kahn
Method File : C:\data\January\100418.mth
Chromatogram : A100418049
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 19:18 Printed : 10/5/2018 08:34
Sample ID : 490-160269-a-5 (# 62)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20

Calib. method : using 'Least Squares to Linear fit'

!!! Warning missing one or more peaks.

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418050.DAT
Sample name :490-160269-a-5 Analysed :10/04/2018 19:23

Eager 300 Report

Page: 1 Sample: 490-160269-a-5 (A100418050)

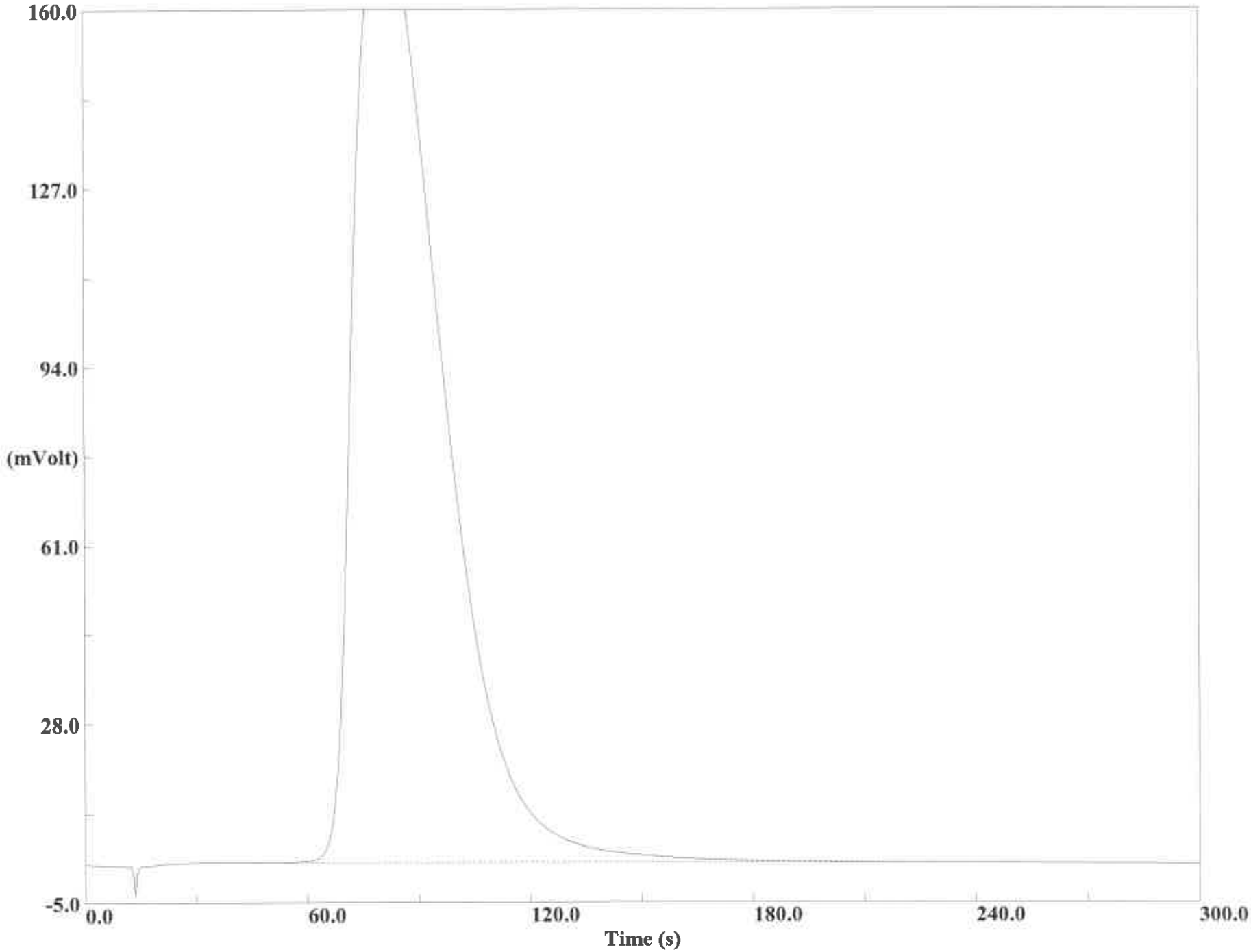
Method Name : Lloyd Kahn
Method File : C:\data\January\100418.mth
Chromatogram : A100418050
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 19:23 Printed : 10/5/2018 08:34
Sample ID : 490-160269-a-5 (# 63)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 21.9

Calib. method : using 'Least Squares to Linear fit'

!!! Warning missing one or more peaks.

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418051.DAT
Sample name :490-160269-a-6 Analysed :10/04/2018 19:28

Eager 300 Report

Page: 1 Sample: 490-160269-a-6 (A100418051)

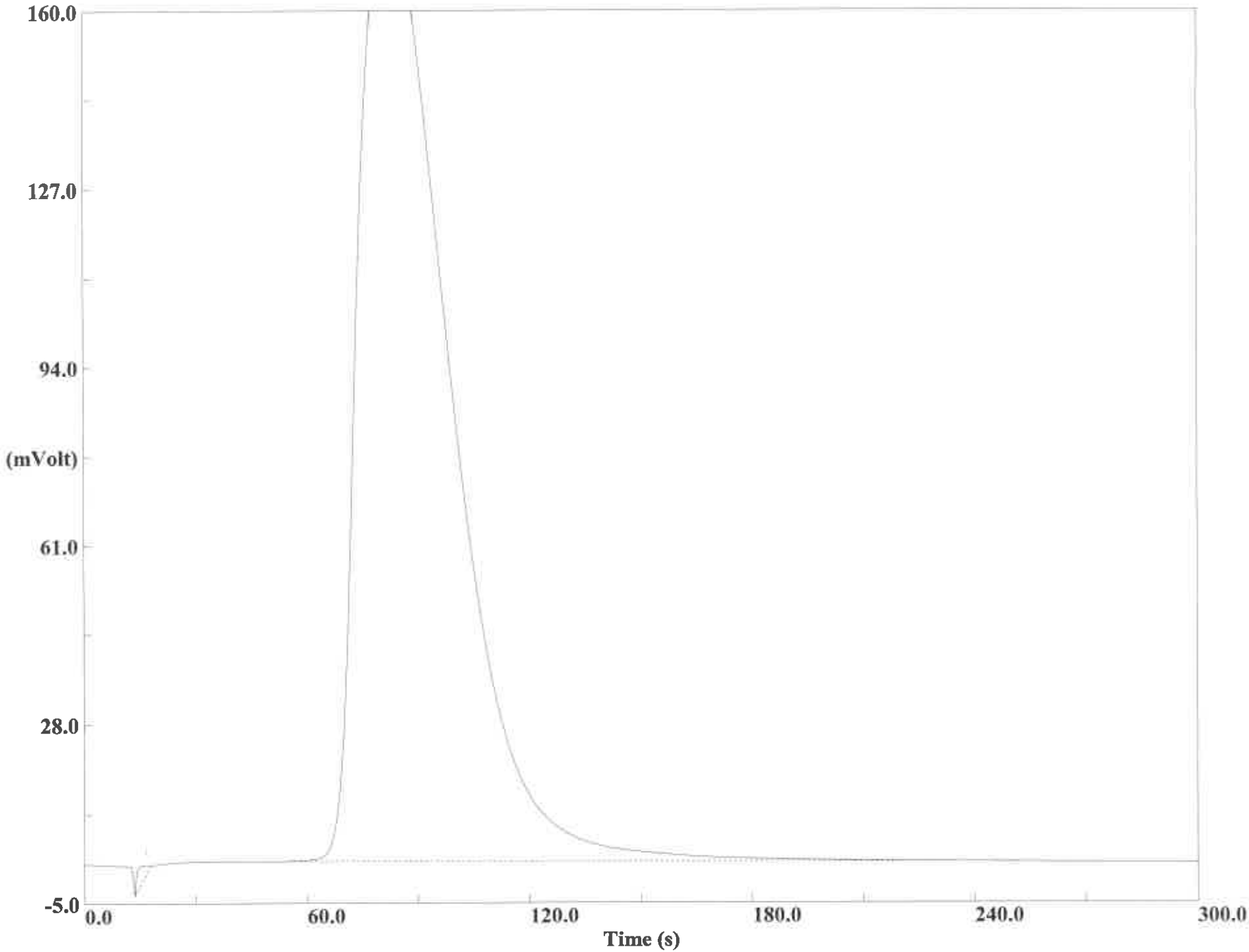
Method Name : Lloyd Kahn
Method File : C:\data\January\100418.mth
Chromatogram : A100418051
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 19:28 Printed : 10/5/2018 08:34
Sample ID : 490-160269-a-6 (# 64)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20.7

Calib. method : using 'Least Squares to Linear fit'

!!! Warning missing one or more peaks.

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418052.DAT
Sample name :490-160269-a-6 Analysed :10/04/2018 19:33

Eager 300 Report

Page: 1 Sample: 490-160269-a-6 (A100418052)

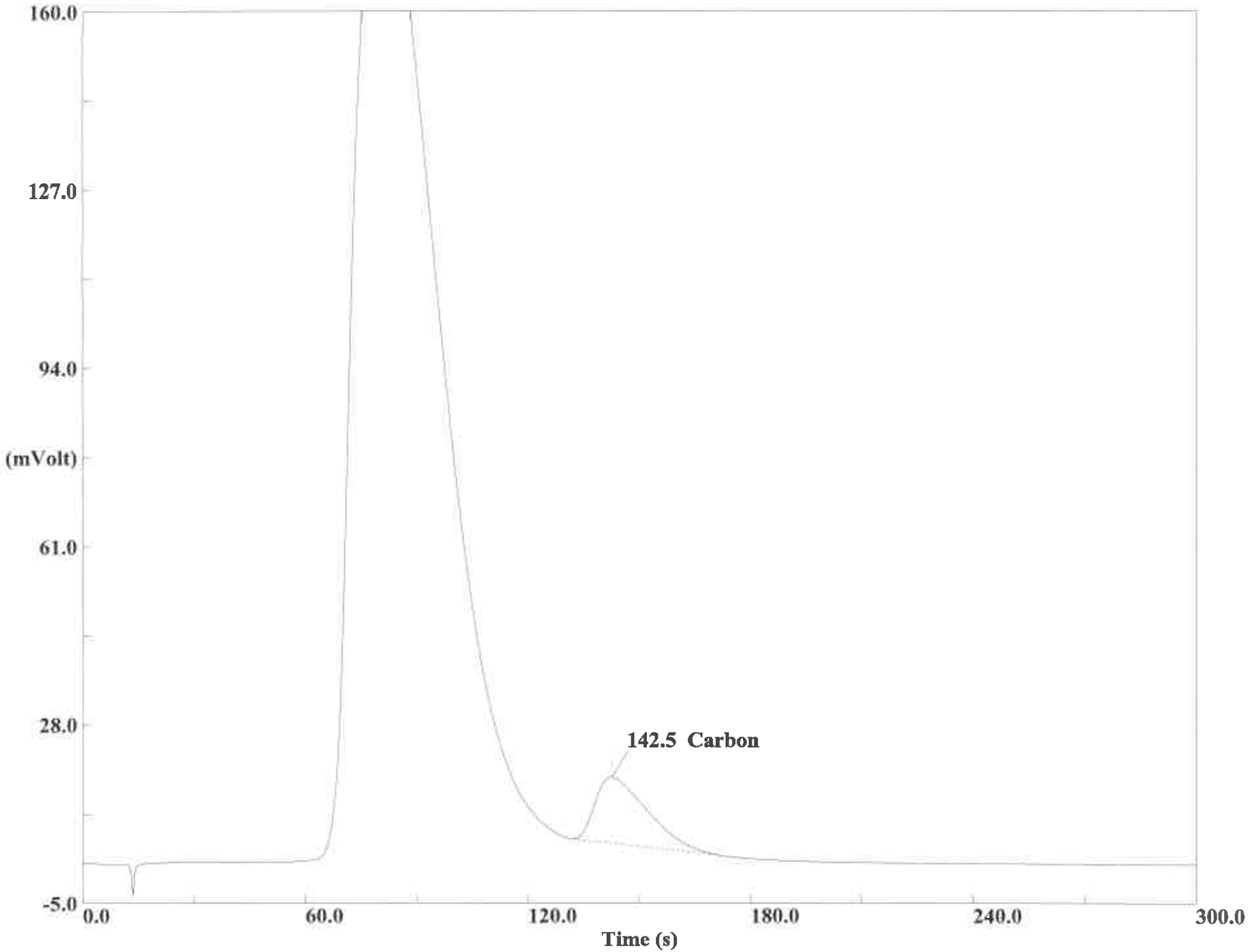
Method Name : Lloyd Kahn
Method File : C:\data\January\100418.mth
Chromatogram : A100418052
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 19:33 Printed : 10/5/2018 08:34
Sample ID : 490-160269-a-6 (# 65)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20.1

Calib. method : using 'Least Squares to Linear fit'

!!! Warning missing one or more peaks.

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418053.DAT
Sample name :ccv Analysed :10/04/2018 19:38

Eager 300 Report

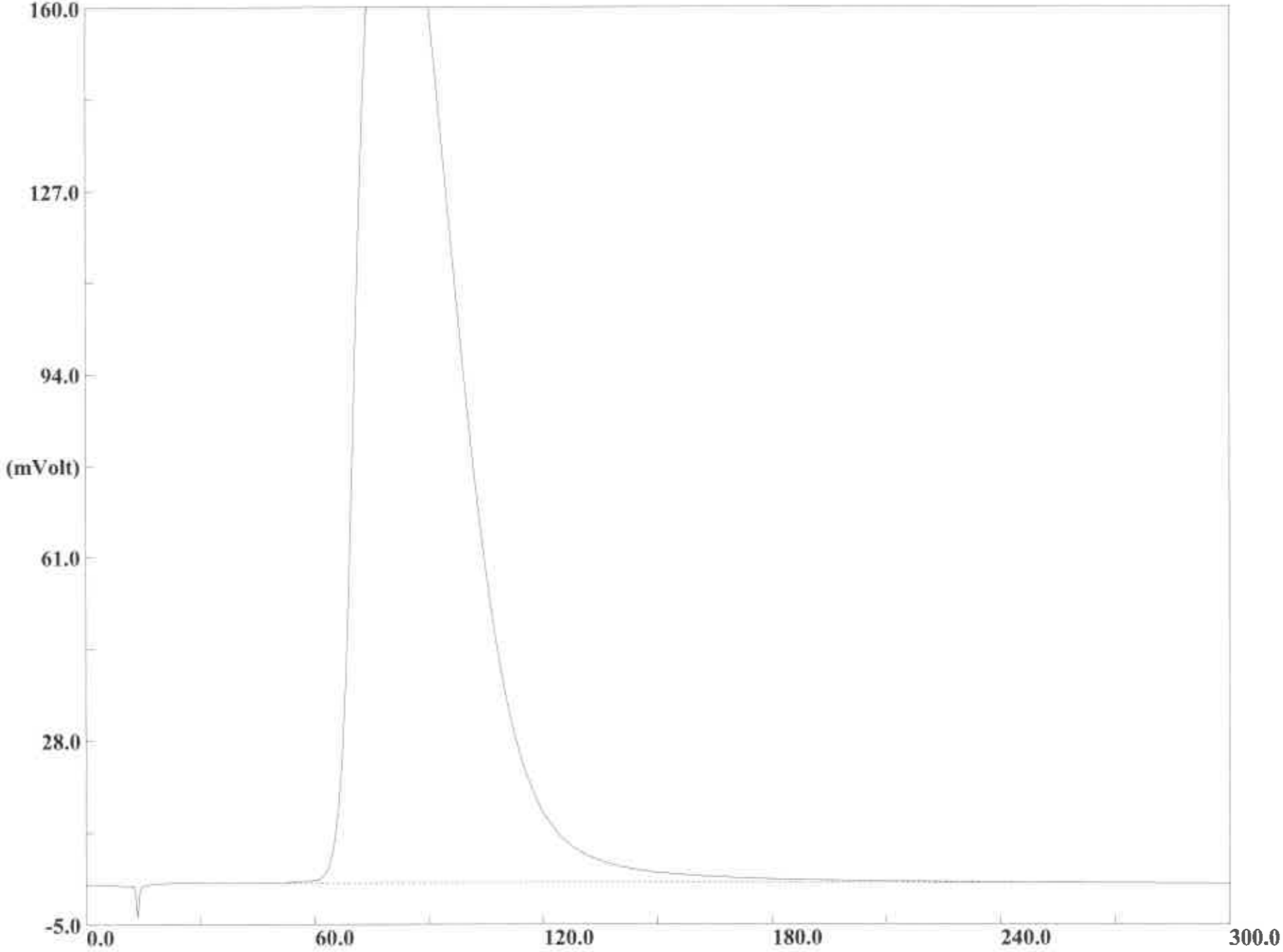
Page: 1 Sample: ccv (A100418053)

Method Name : Lloyd Kahn
Method File : C:\data\January\100418.mth
Chromatogram : A100418053
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 19:38 Printed : 10/5/2018 08:34
Sample ID : ccv (# 66)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 100

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.8761	143	1982448	mi	1.000000	

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418054.DAT
Sample name :ccb Analysed :10/04/2018 19:43

Eager 300 Report

Page: 1 Sample: ccb (A100418054)

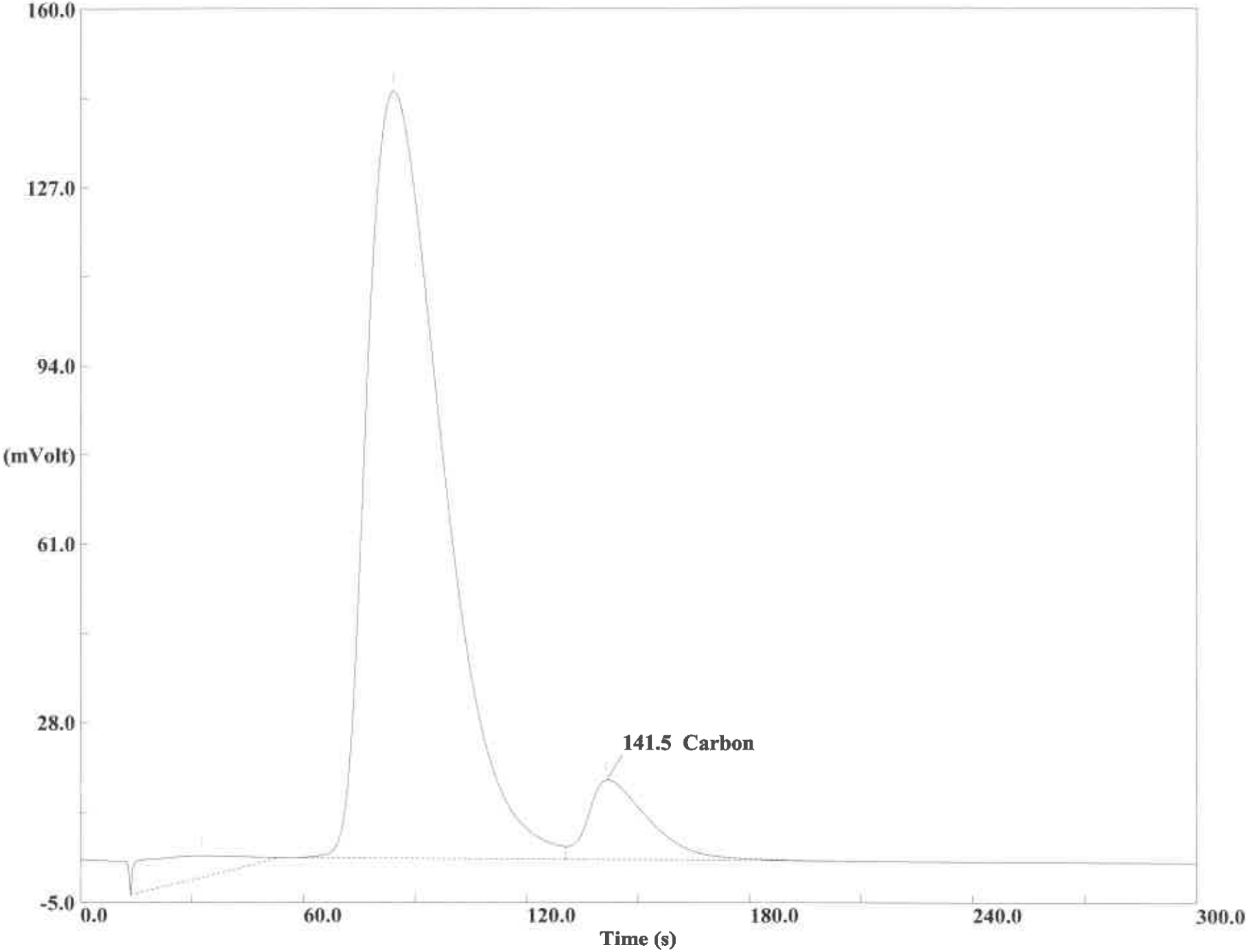
Method Name : Lloyd Kahn
Method File : C:\data\January\100418.mth
Chromatogram : A100418054
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 19:43 Printed : 10/5/2018 08:34
Sample ID : ccb (# 67)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20

Calib. method : using 'Least Squares to Linear fit'

!!! Warning missing one or more peaks.

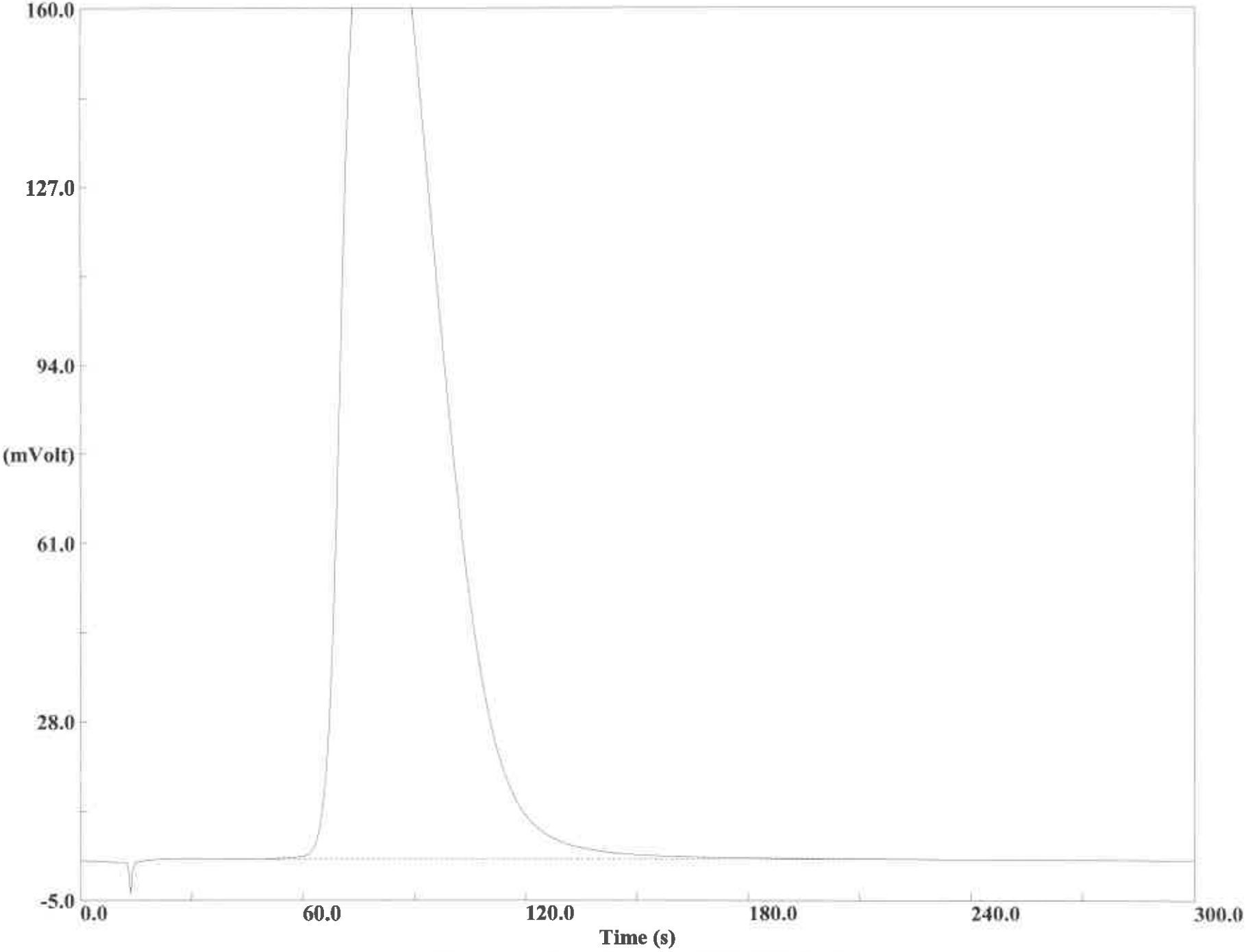
Element Name	%	Ret.Time	Area	BC	Area ratio	K factor

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



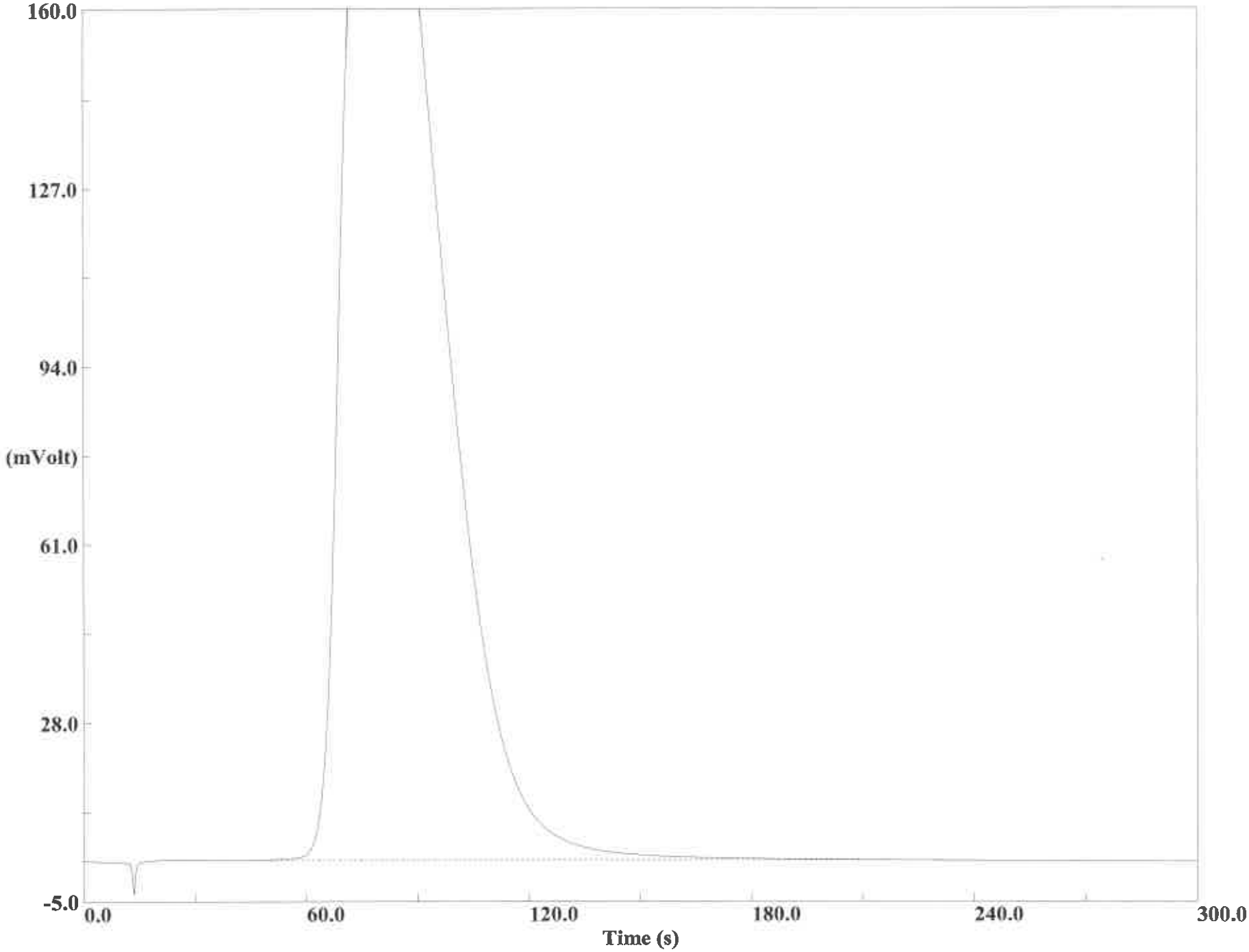
Filename C:\data\January\A100418001.DAT
Sample name :ccv Analysed :10/04/2018 15:02

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



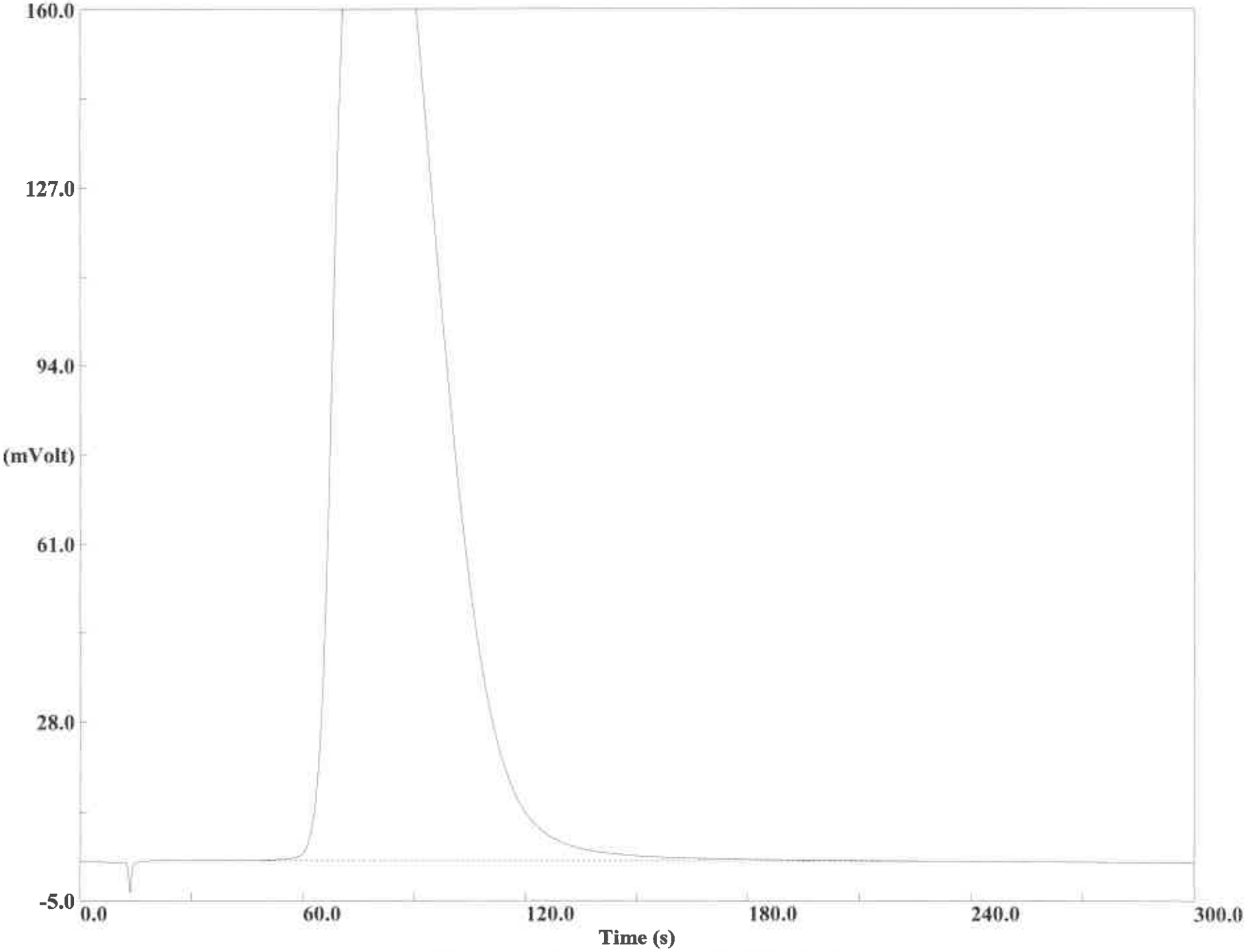
Filename C:\data\January\A100418002.DAT
Sample name :ccb Analysed :10/04/2018 15:09

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



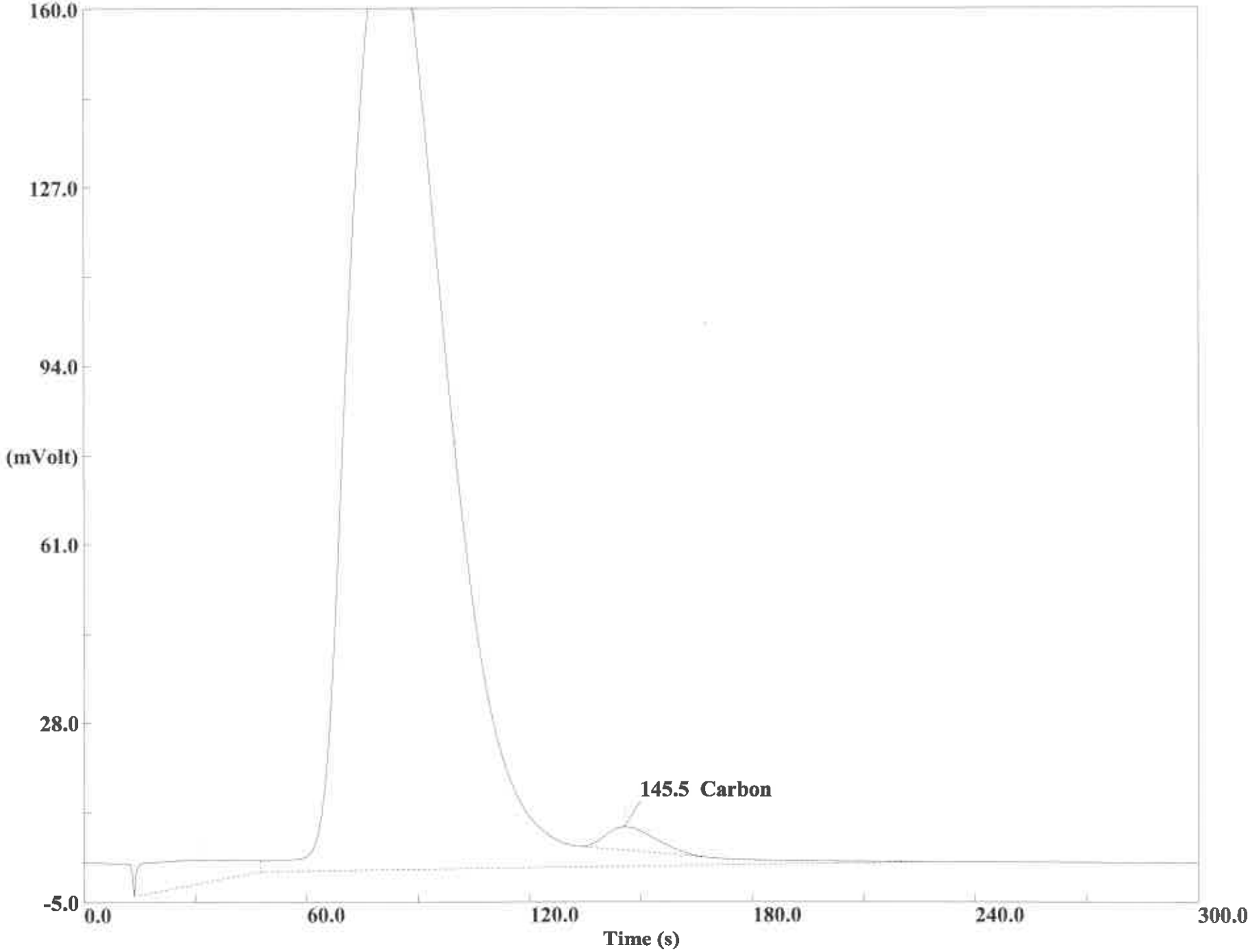
Filename C:\data\January\A100418003.DAT
Sample name :mb Analysed :10/04/2018 15:14

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



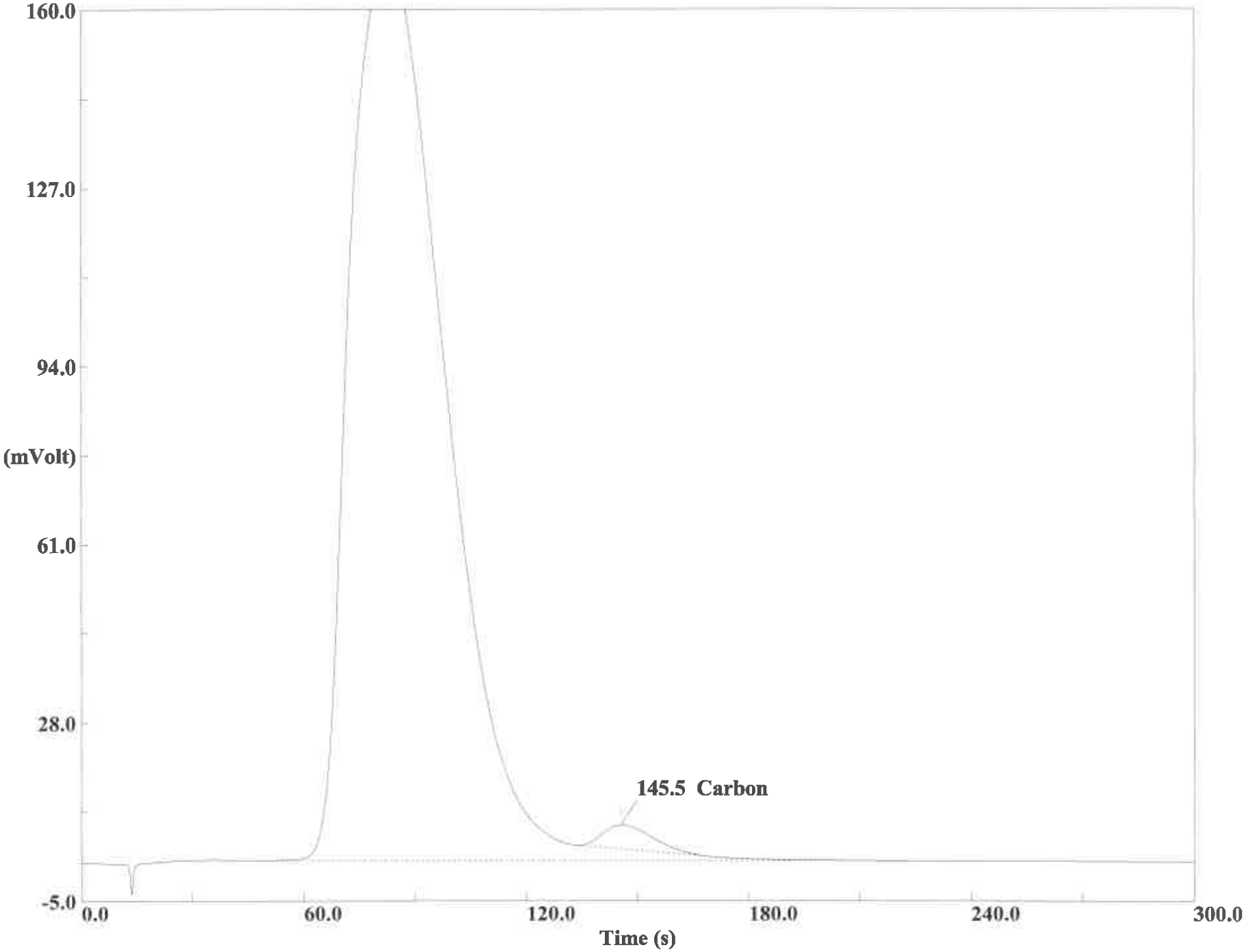
Filename C:\data\January\A100418004.DAT
Sample name :mb Analysed :10/04/2018 15:20

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



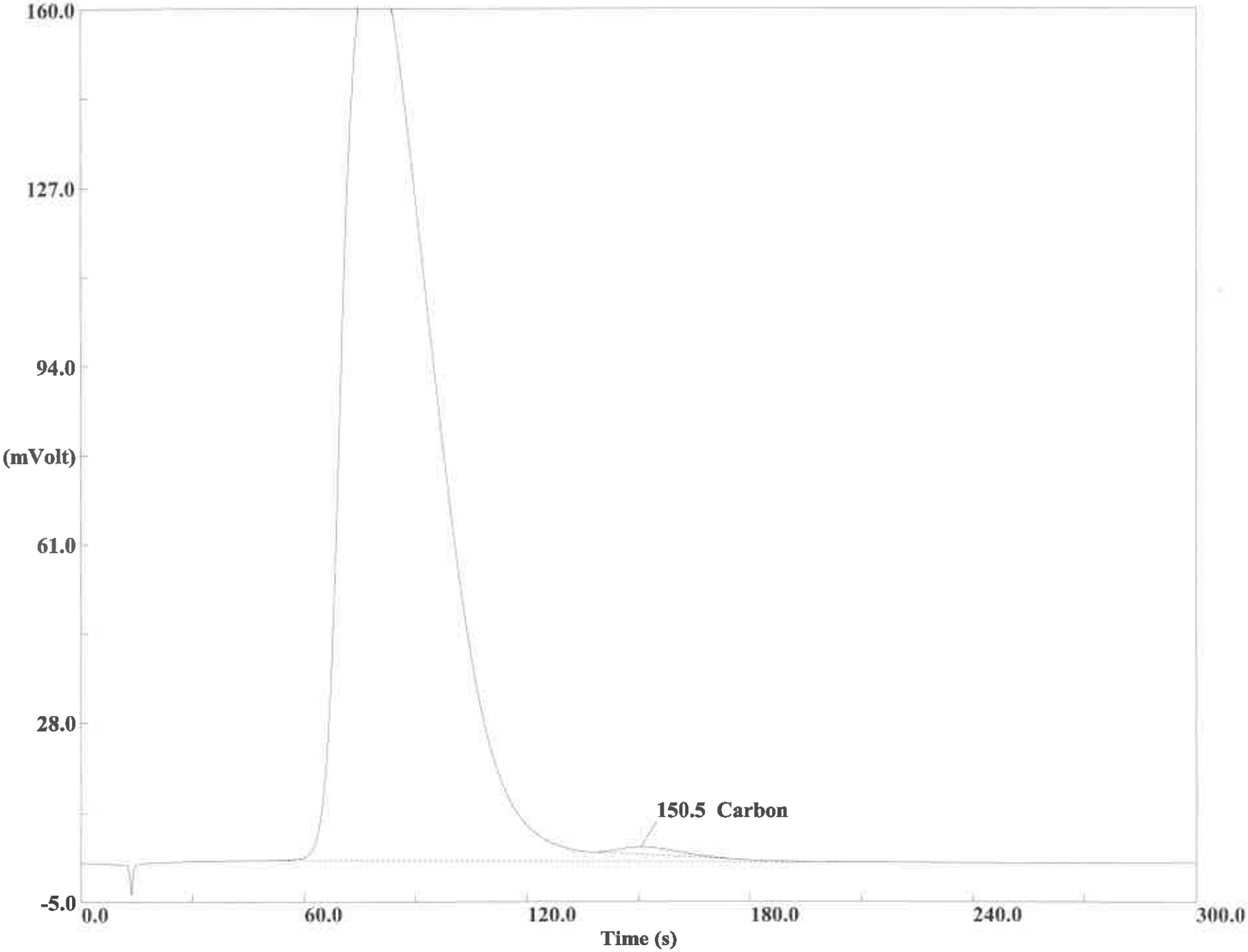
Filename C:\data\January\A100418005.DAT
Sample name :lcs Analysed :10/04/2018 15:25

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



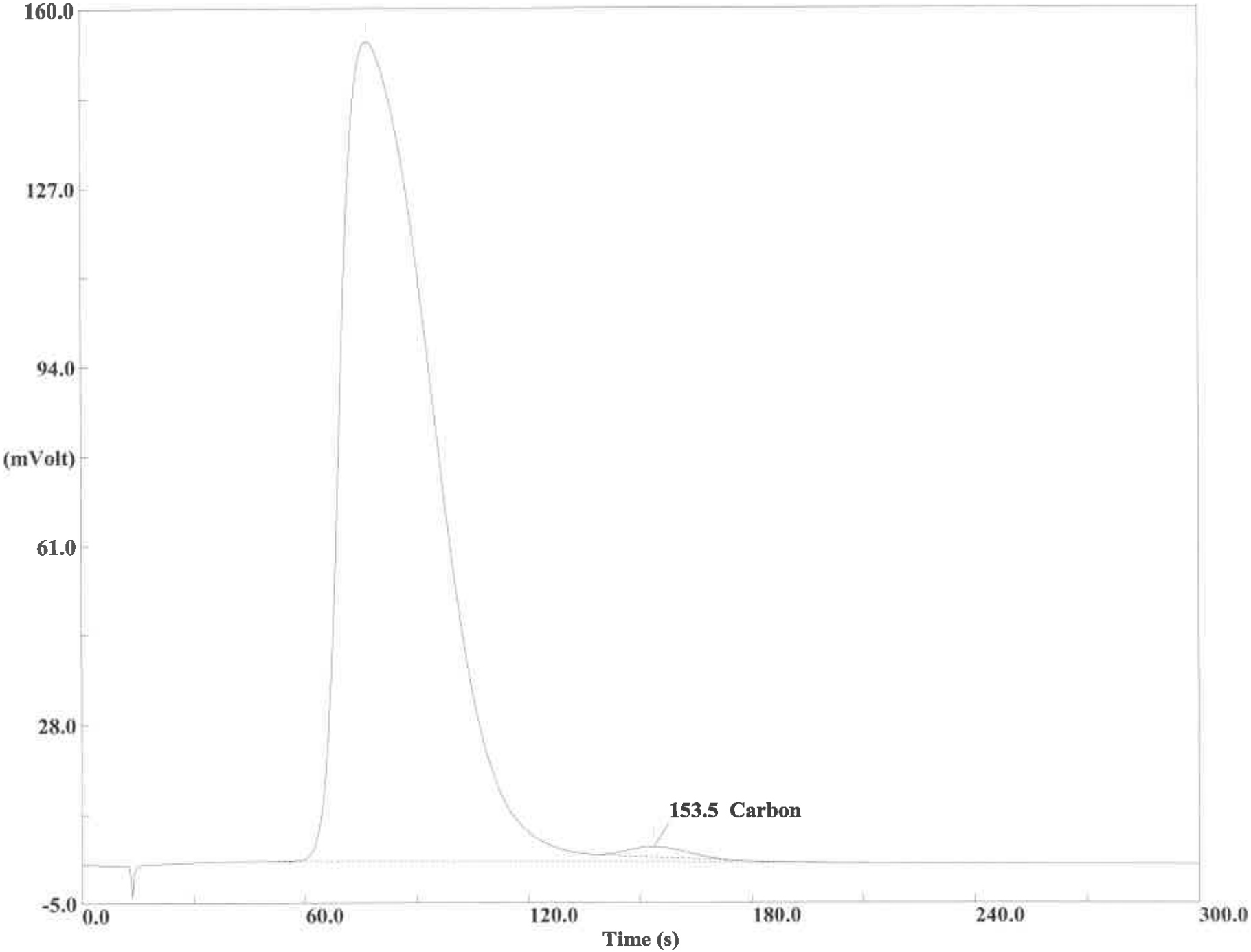
Filename C:\data\January\A100418006.DAT
Sample name :lcs Analysed :10/04/2018 15:38

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



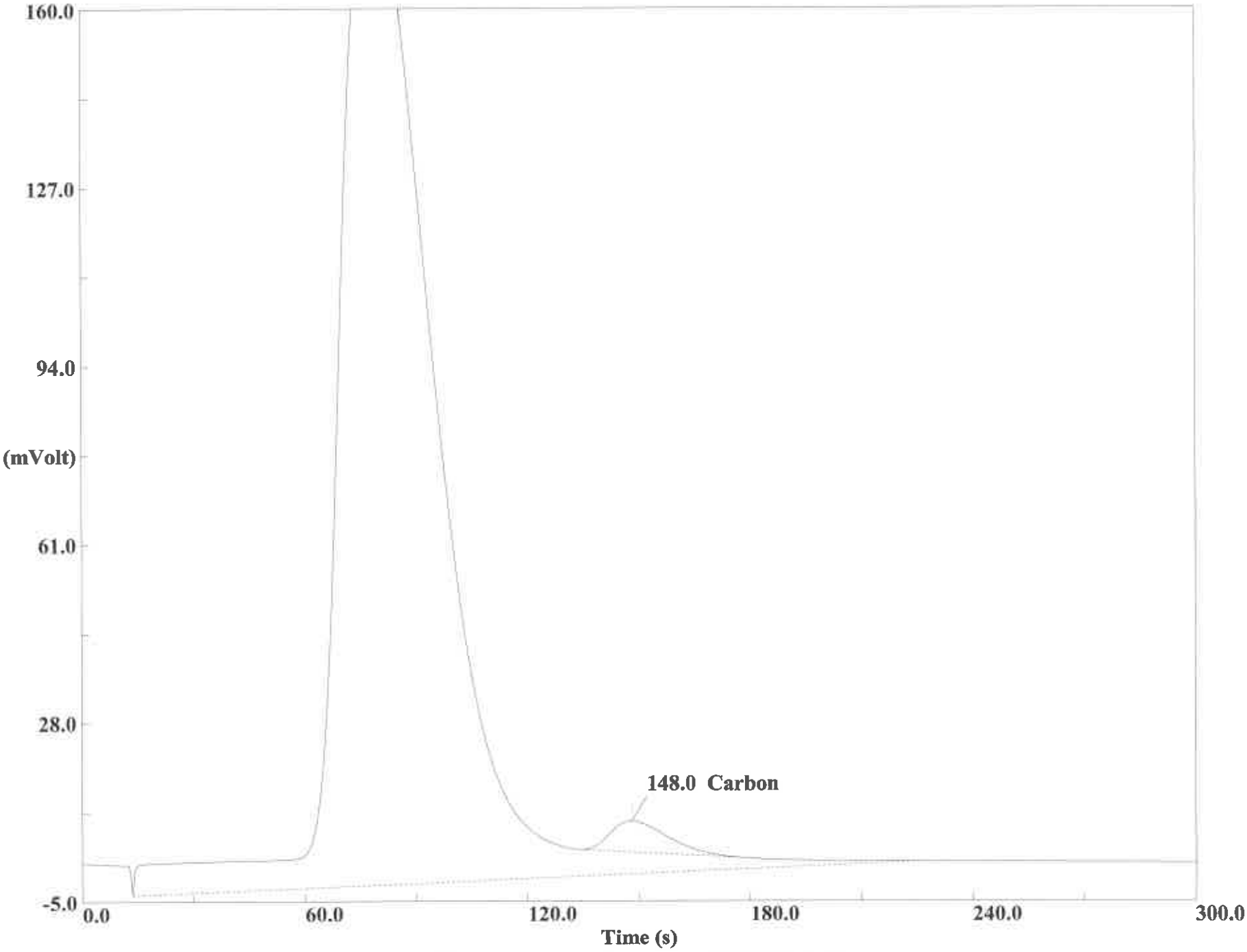
Filename C:\data\January\A100418007.DAT
Sample name :180-82571-b-8 Analysed :10/04/2018 15:45

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



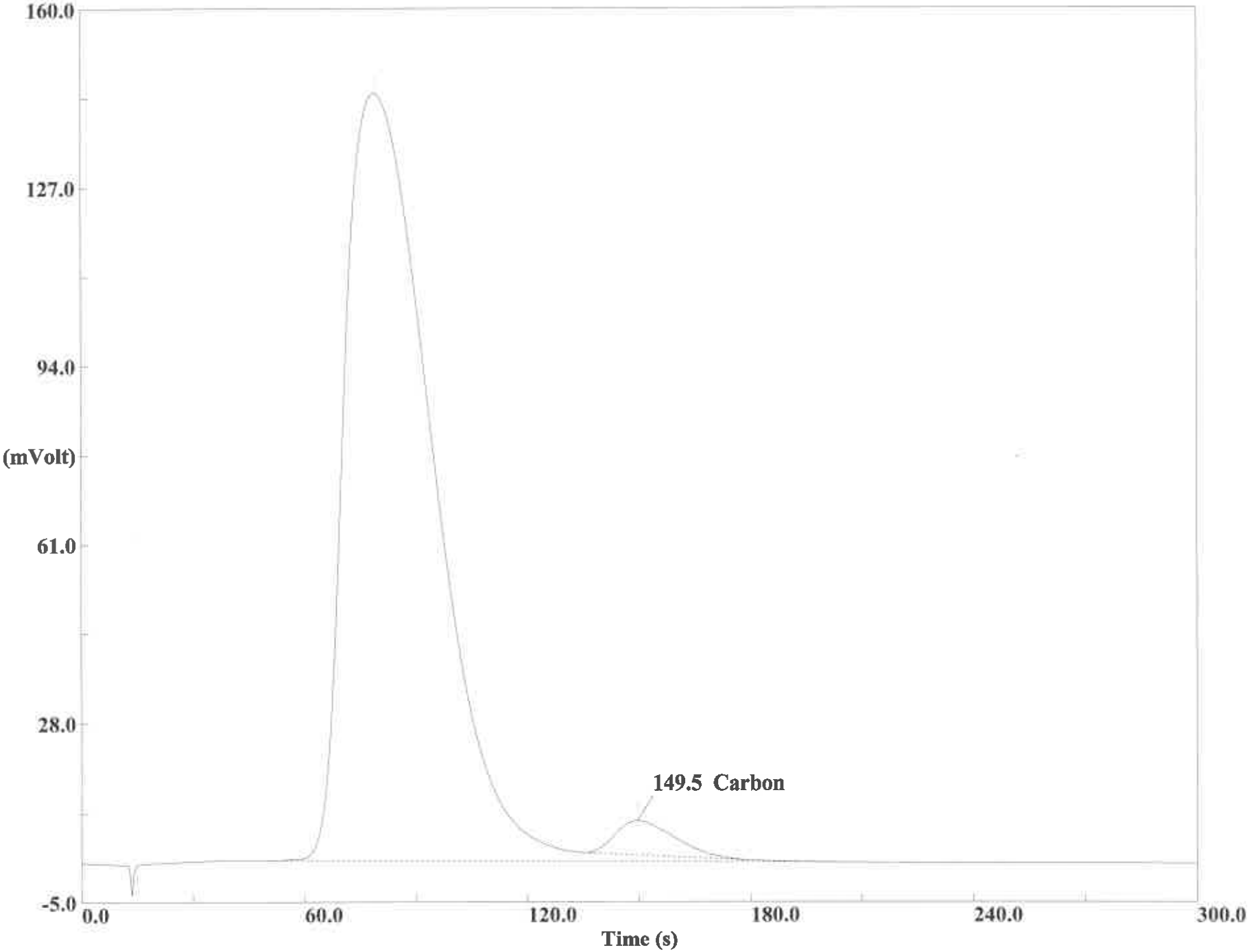
Filename C:\data\January\A100418008.DAT
Sample name :180-82571-b-8 Analysed :10/04/2018 15:50

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



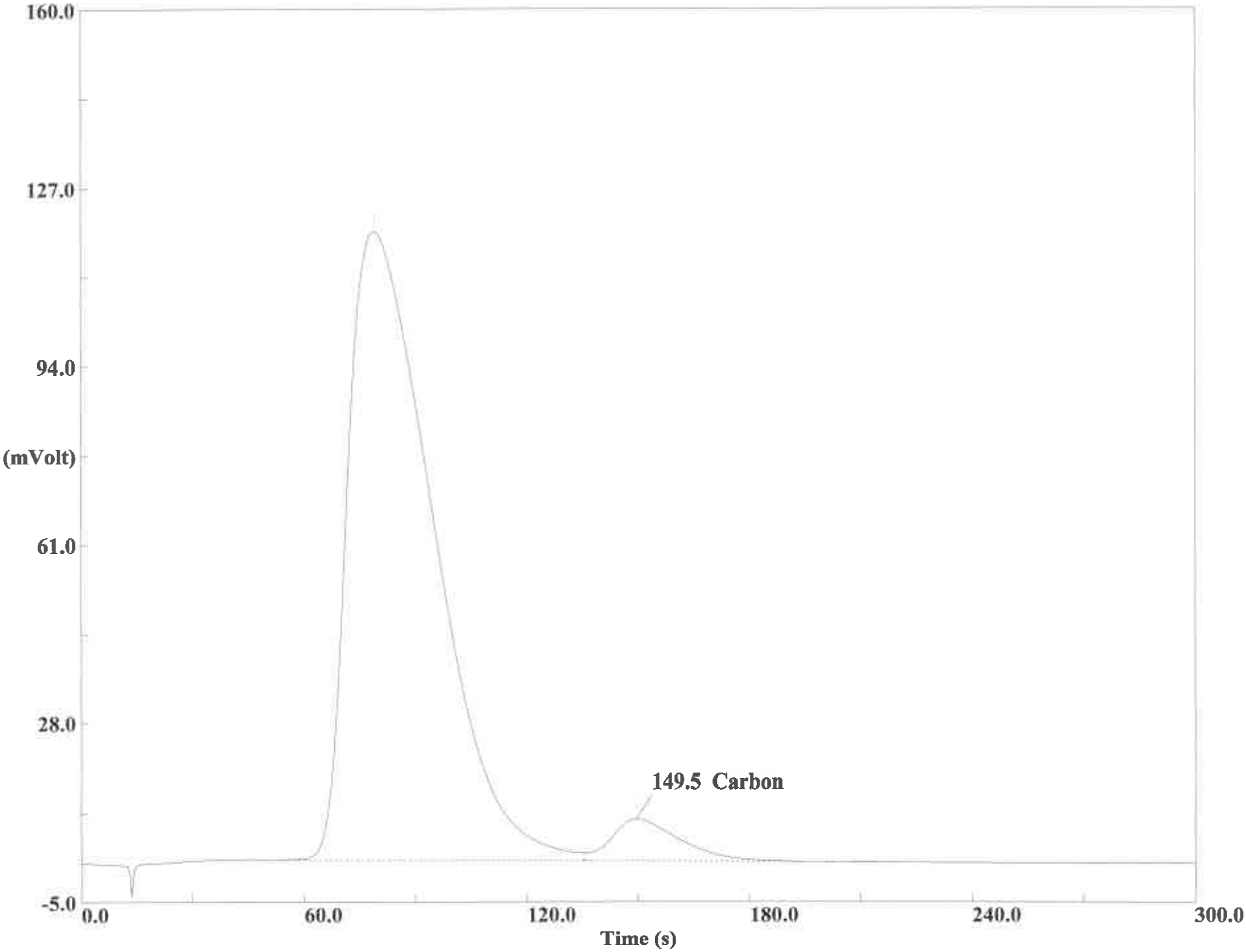
Filename C:\data\January\A100418009.DAT
Sample name :180-82571-b-8 ms Analysed :10/04/2018 15:55

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



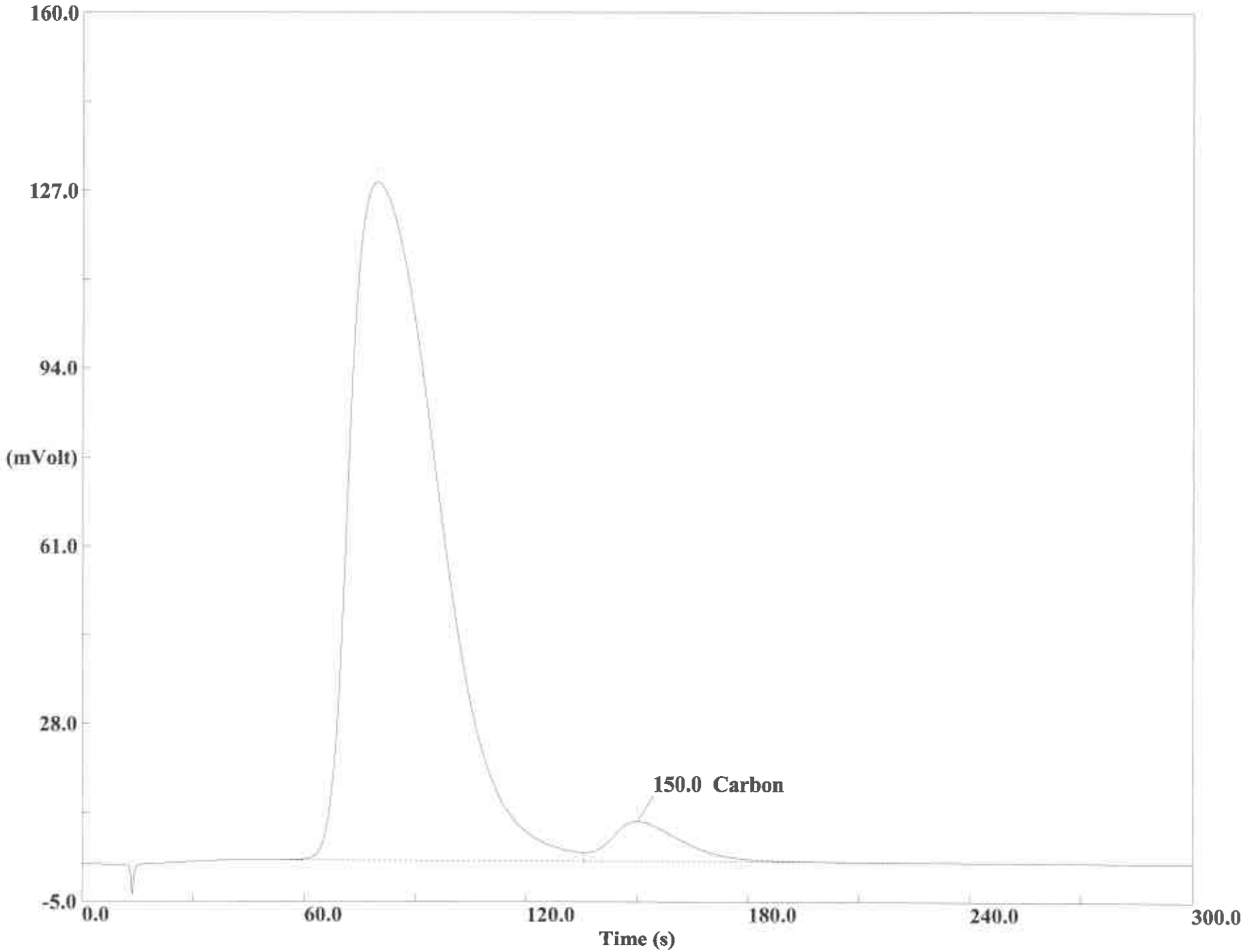
Filename C:\data\January\A100418010.DAT
Sample name :180-82571-b-8 ms Analysed :10/04/2018 16:00

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



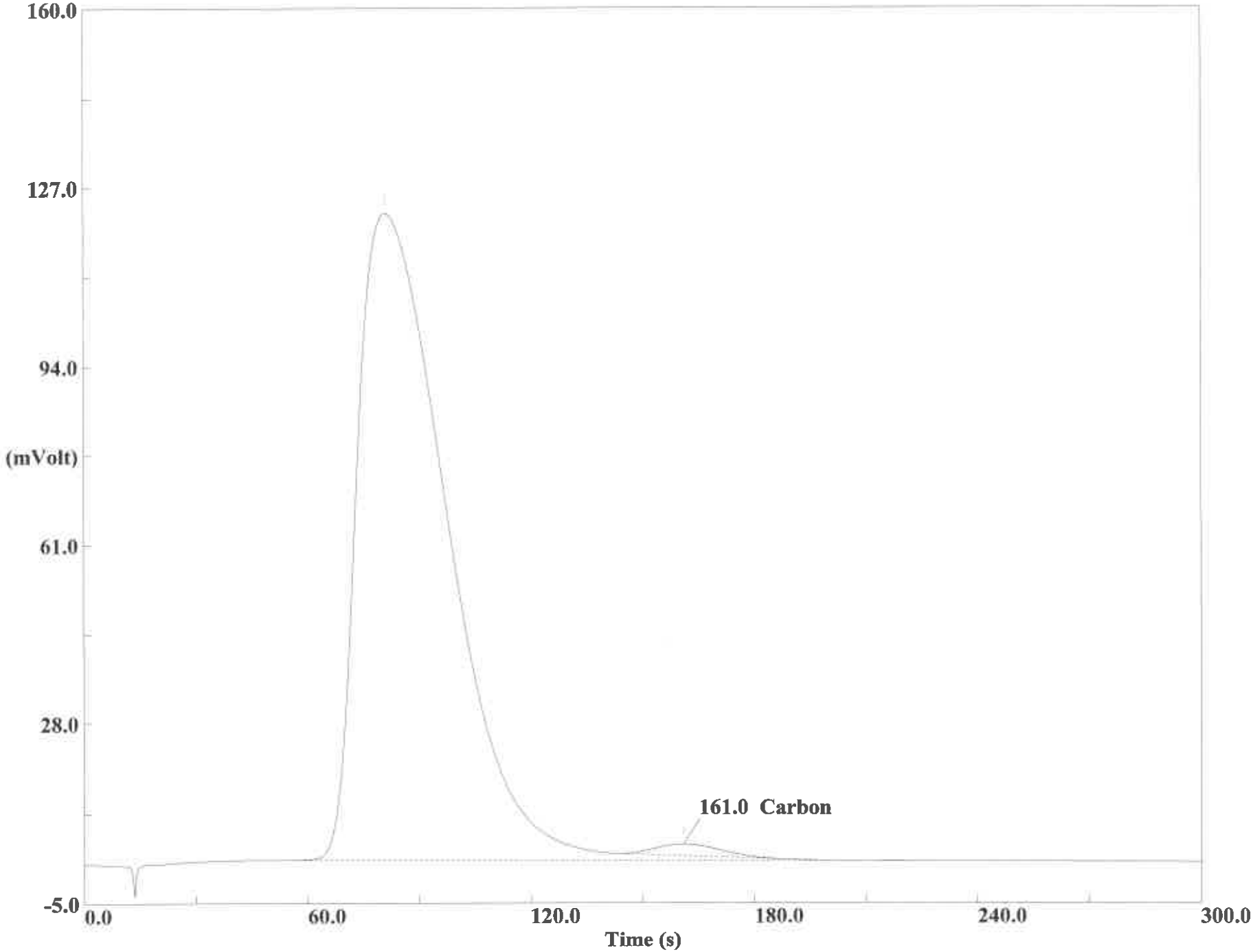
Filename C:\data\January\A100418011.DAT
Sample name :180-82571-b-8 msd Analysed :10/04/2018 16:05

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



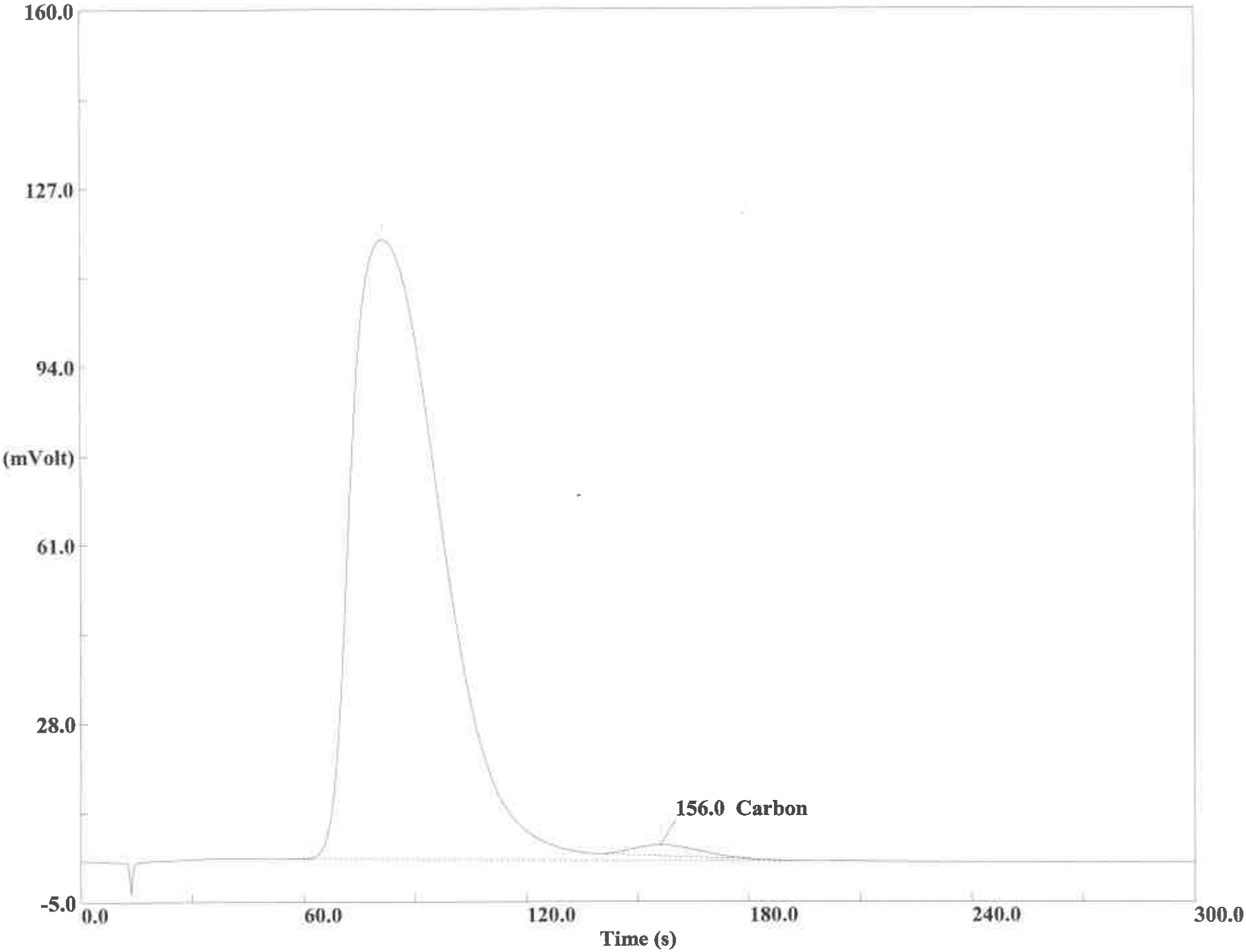
Filename C:\data\January\A100418012.DAT
Sample name :180-82571-b-8 msd Analysed :10/04/2018 16:10

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



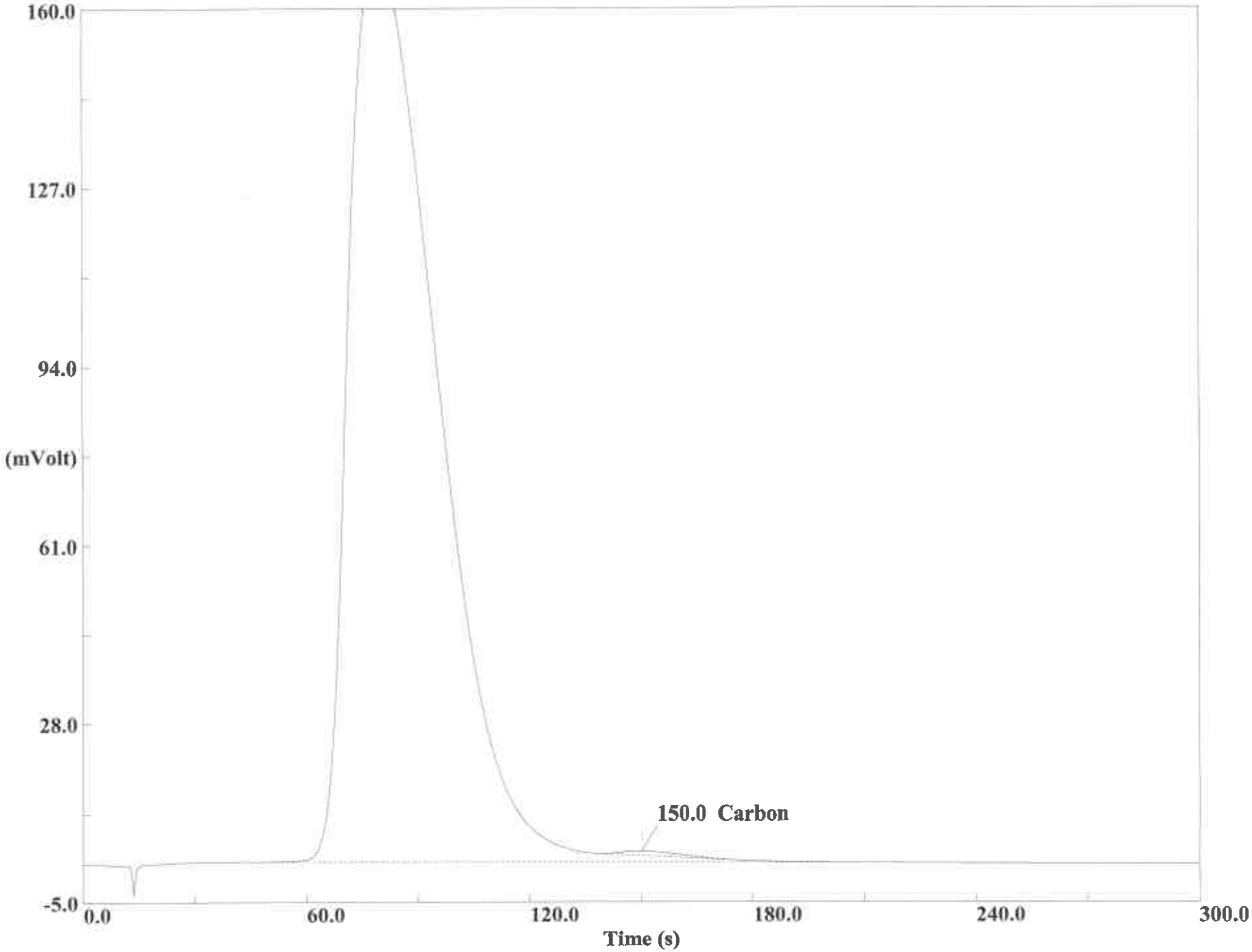
Filename C:\data\January\A100418013.DAT
Sample name :180-82571-b-8 du Analysed :10/04/2018 16:15

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



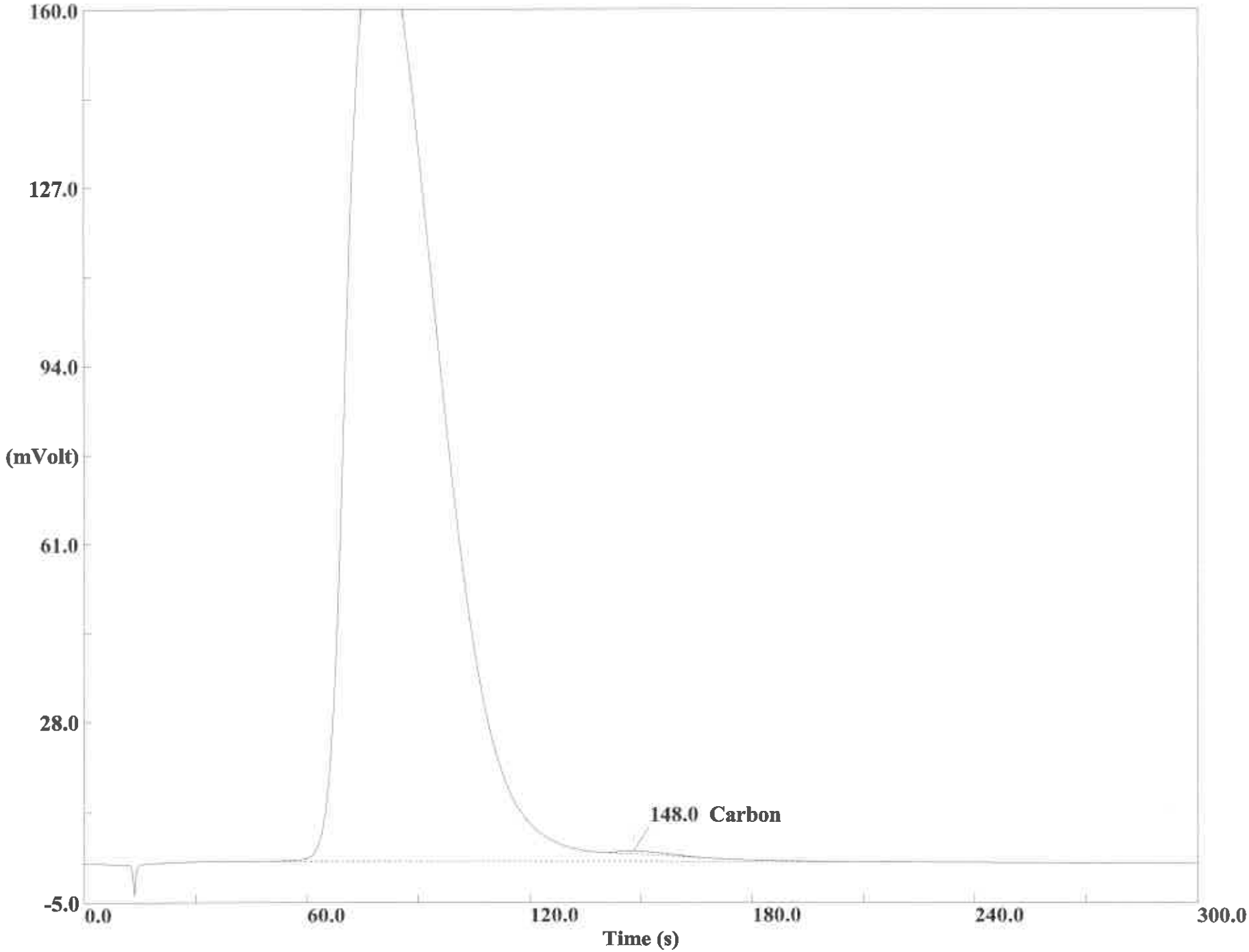
Filename C:\data\January\A100418014.DAT
Sample name :180-82571-b-8 du Analysed :10/04/2018 16:21

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



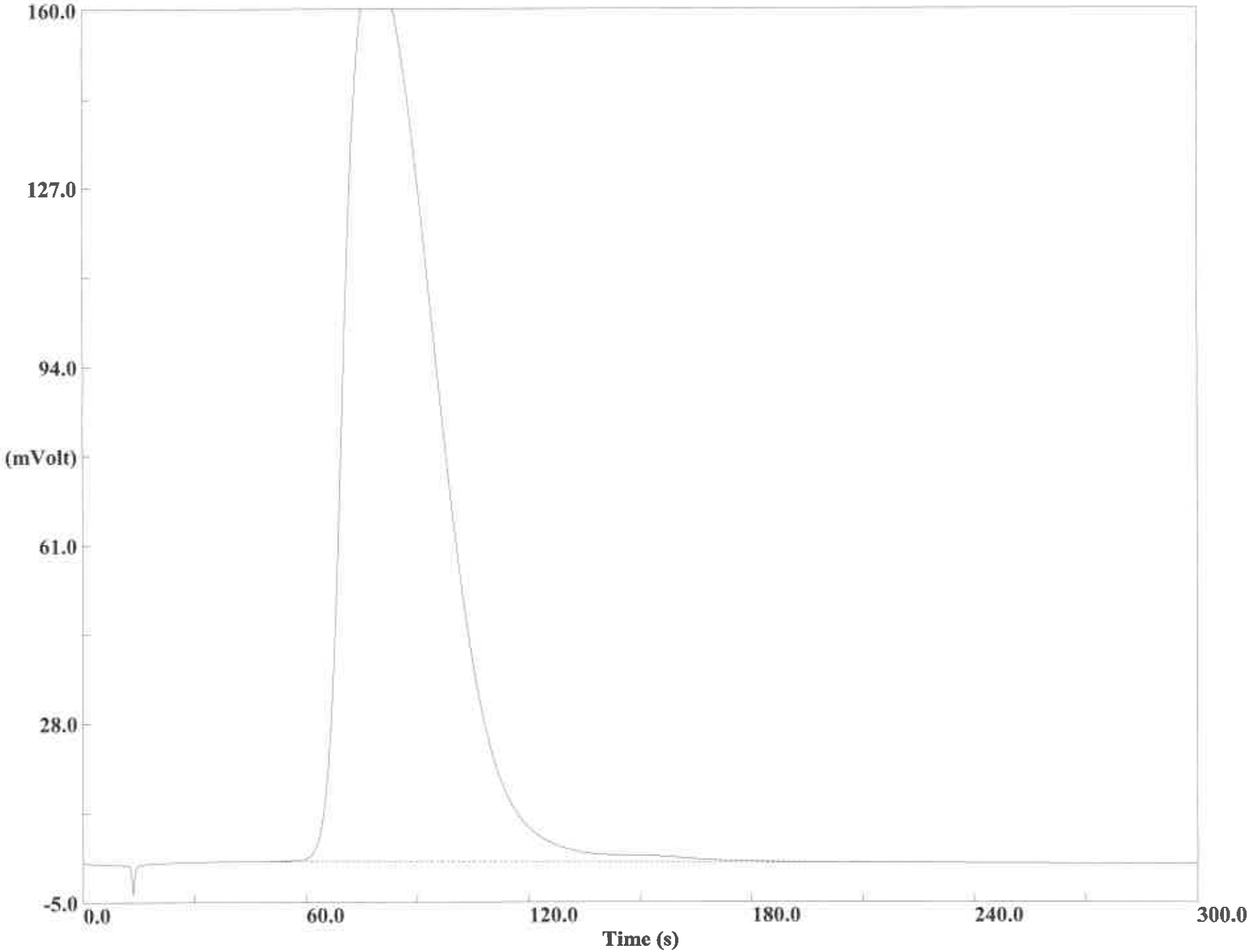
Filename C:\data\January\A100418015.DAT
Sample name :180-82446-b-3 Analysed :10/04/2018 16:26

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



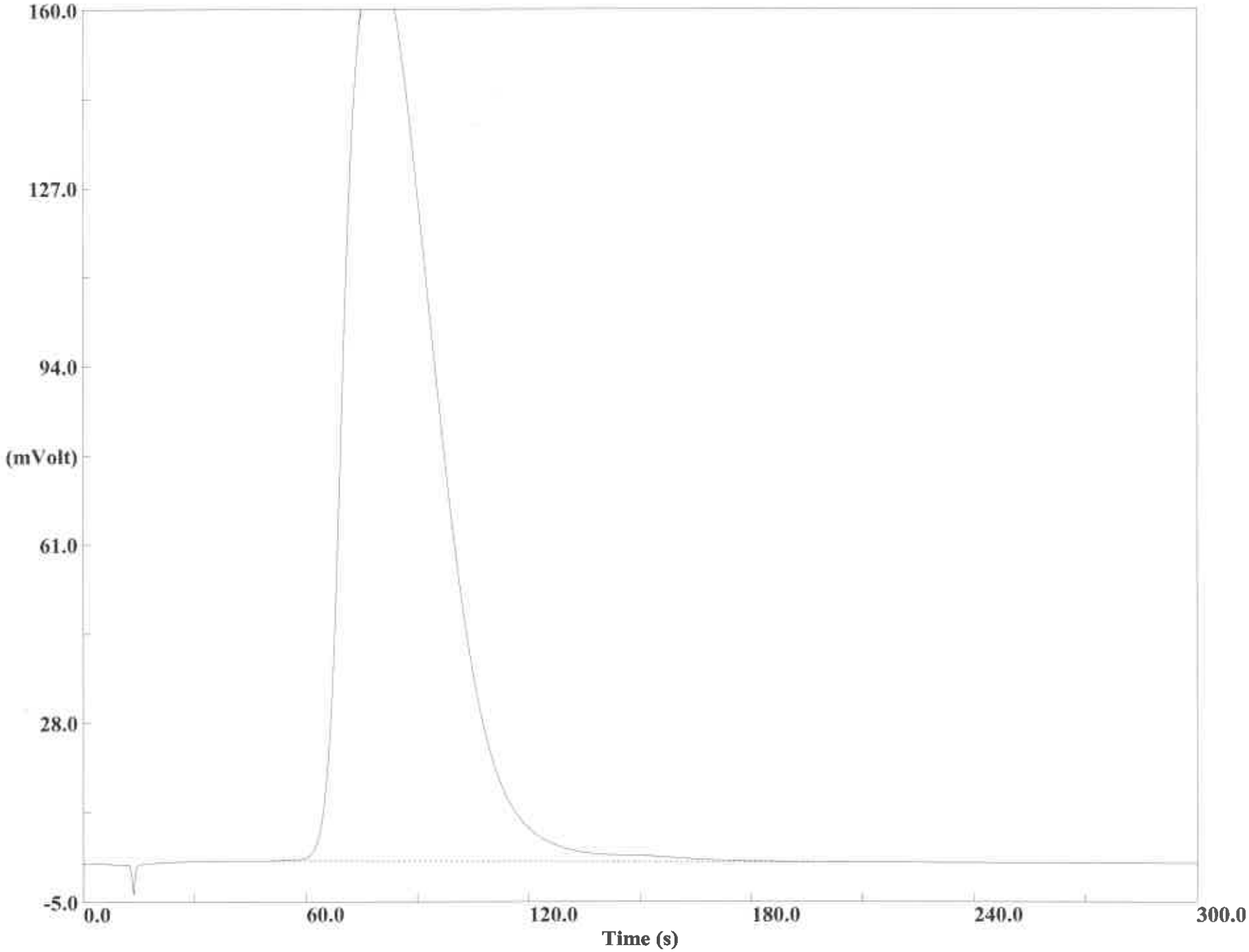
Filename C:\data\January\A100418016.DAT
Sample name :180-82446-b-3 Analysed :10/04/2018 16:31

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



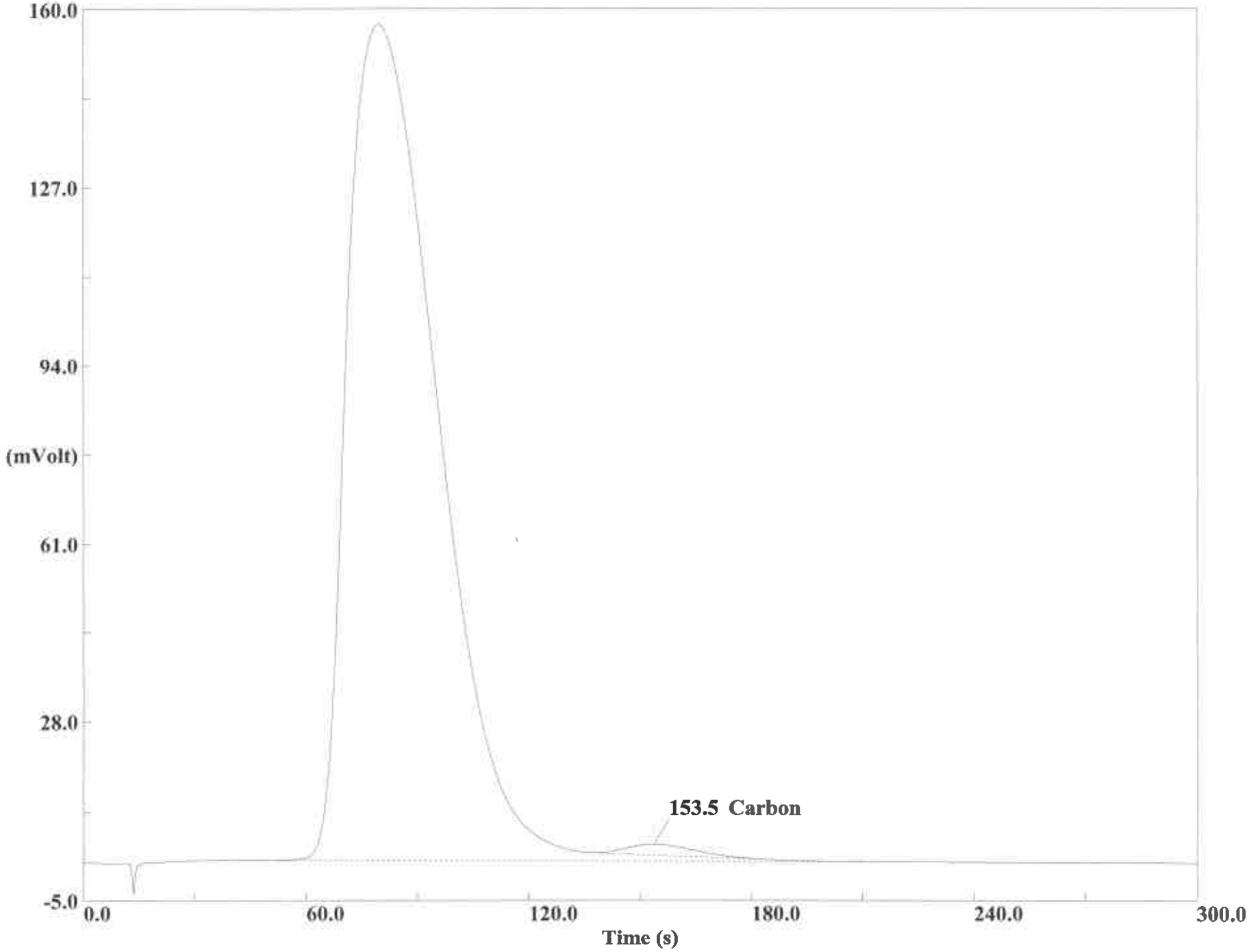
Filename C:\data\January\A100418017.DAT
Sample name :180-82446-b-1 Analysed :10/04/2018 16:36

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



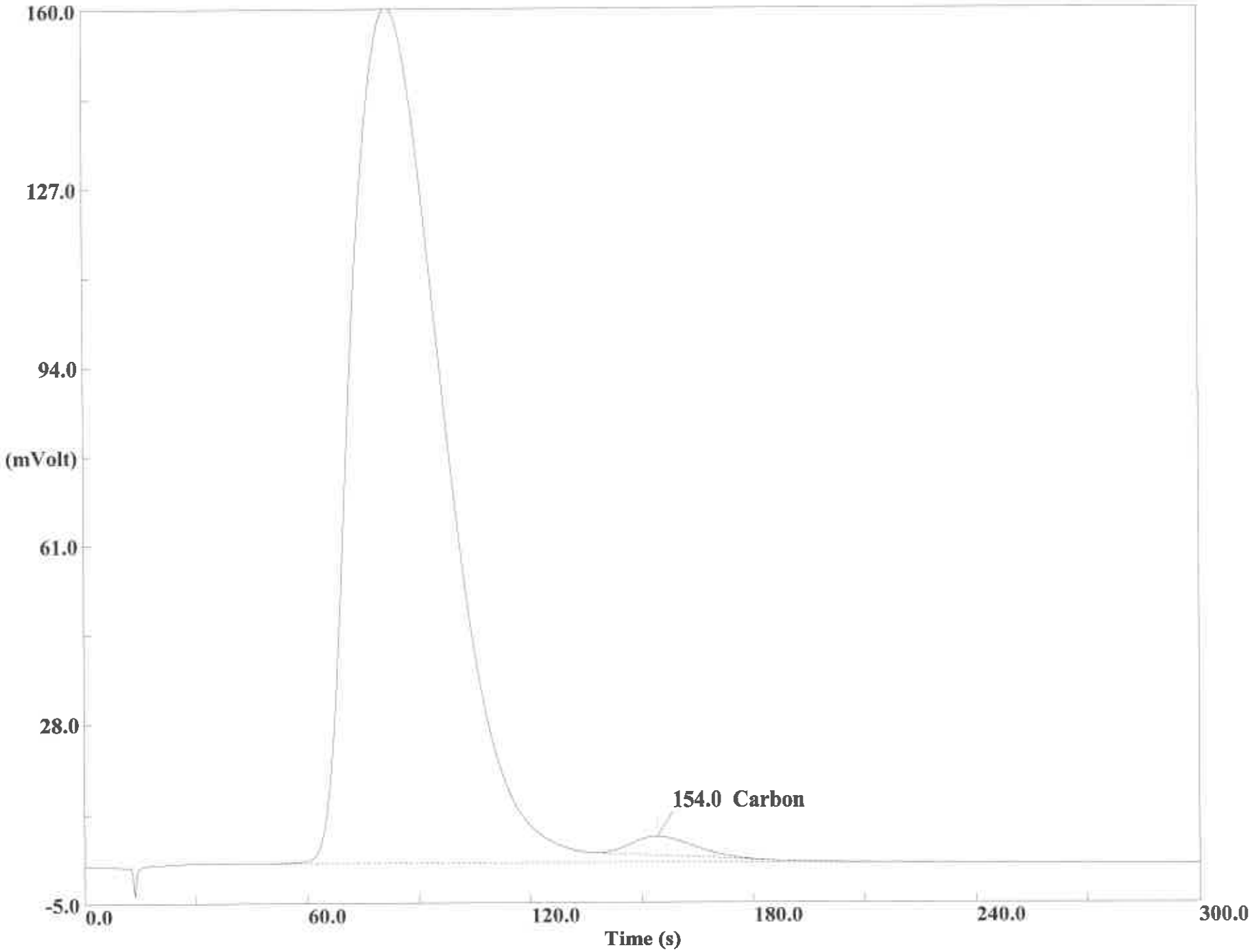
Filename C:\data\January\A100418018.DAT
Sample name :180-82446-b-1 Analysed :10/04/2018 16:41

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



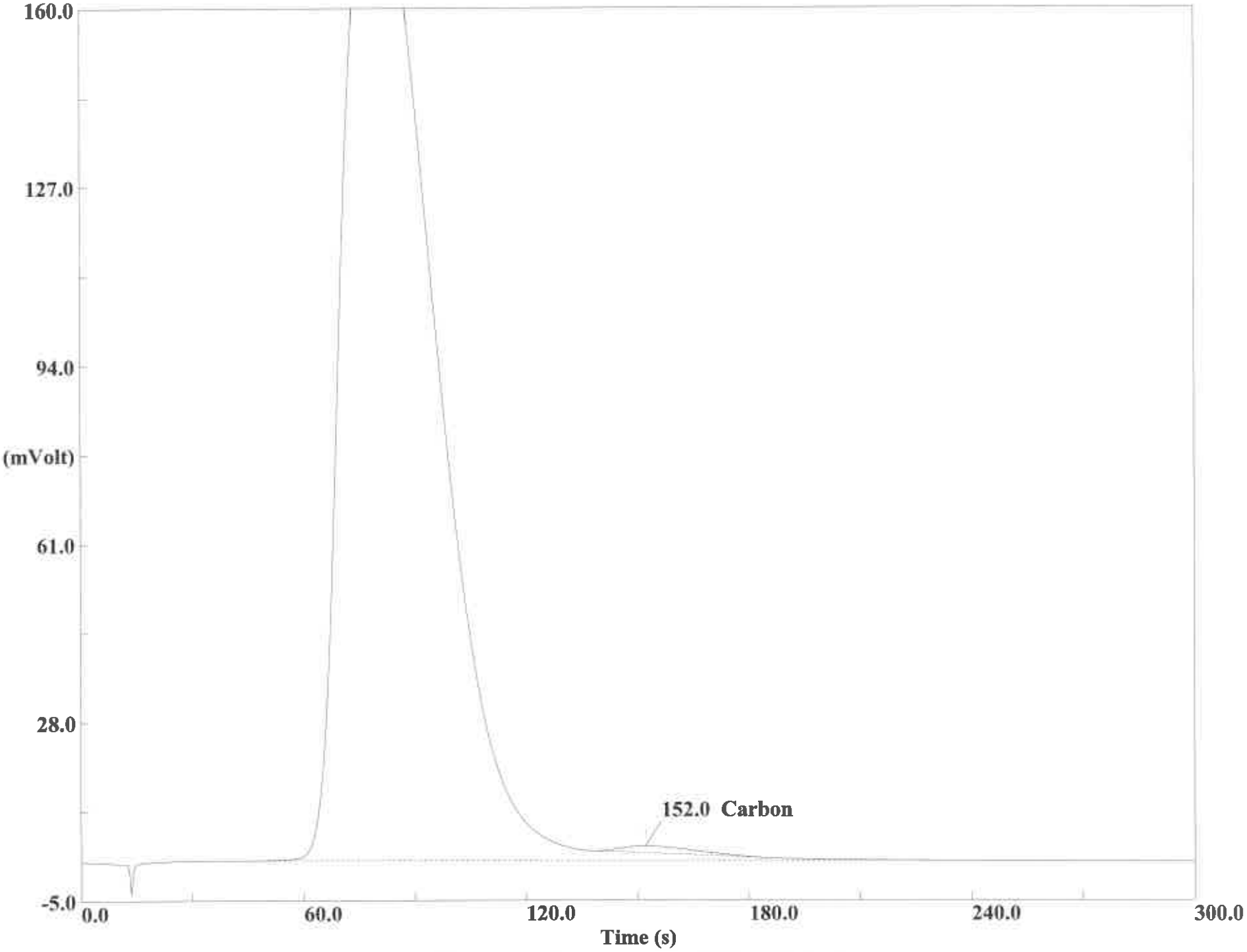
Filename C:\data\January\A100418019.DAT
Sample name :180-82571-b-1 Analysed :10/04/2018 16:46

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



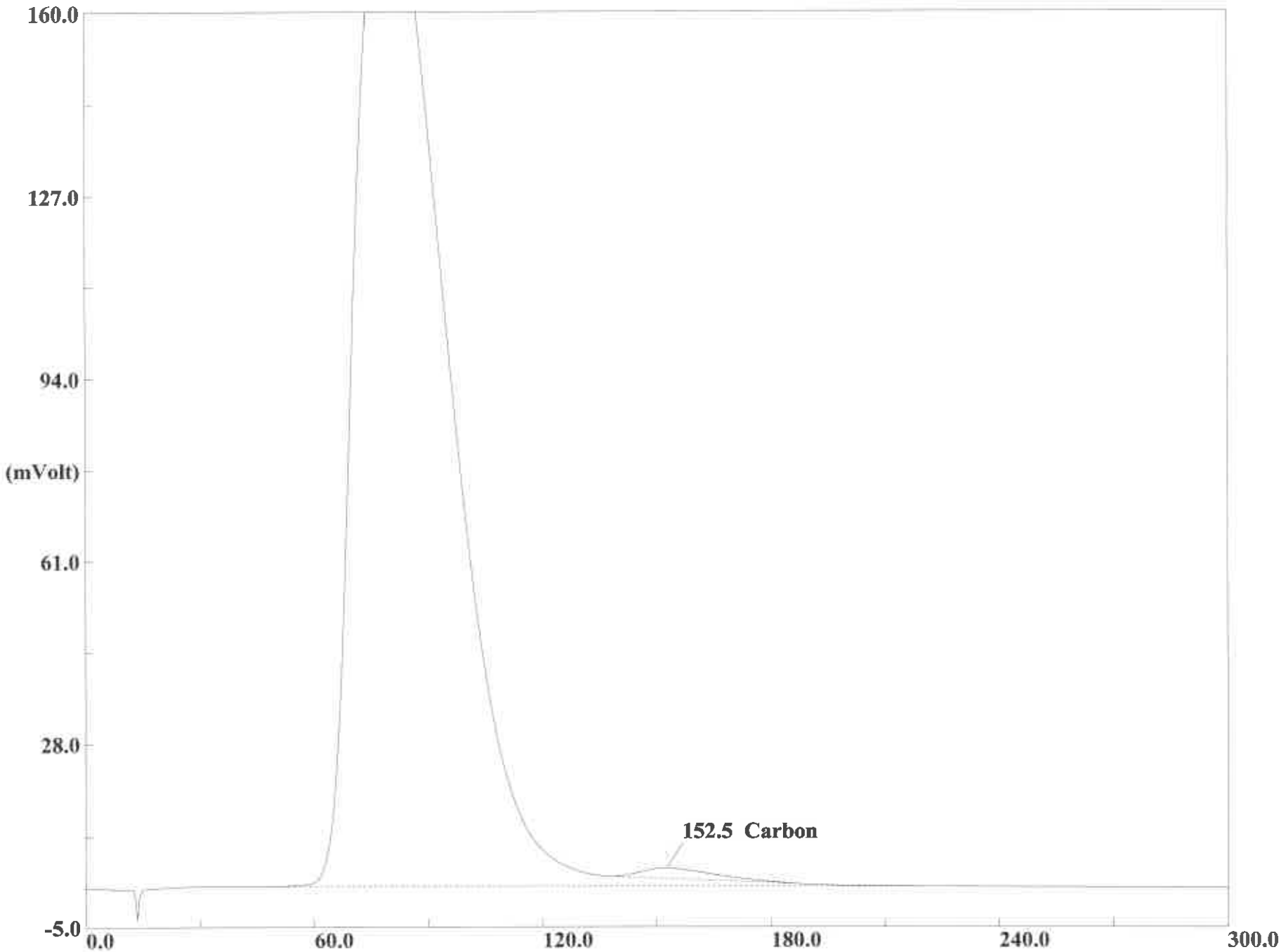
Filename C:\data\January\A100418020.DAT
Sample name :180-82571-b-1 Analysed :10/04/2018 16:51

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



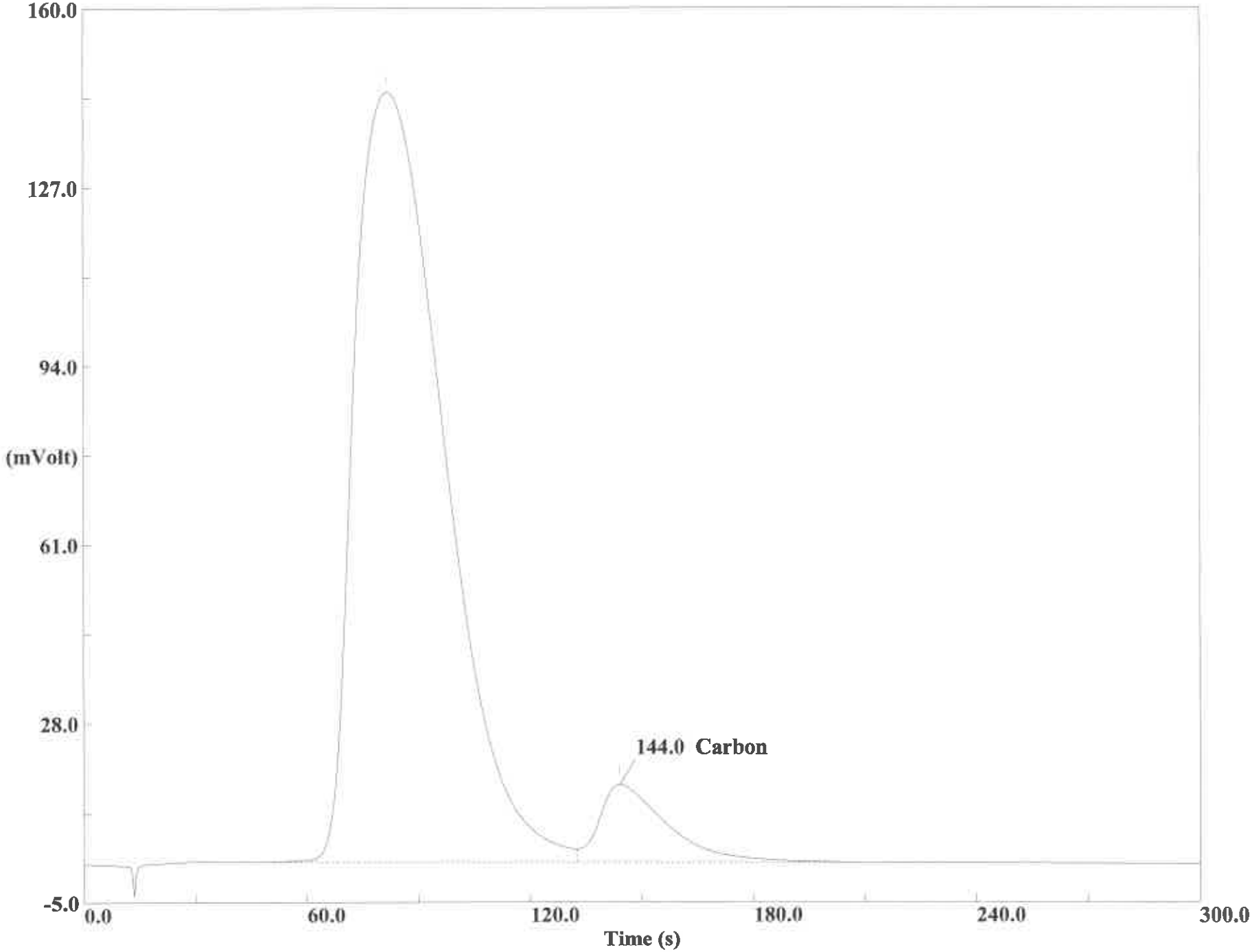
Filename C:\data\January\A100418021.DAT
Sample name :180-82571-b-2 Analysed :10/04/2018 16:56

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



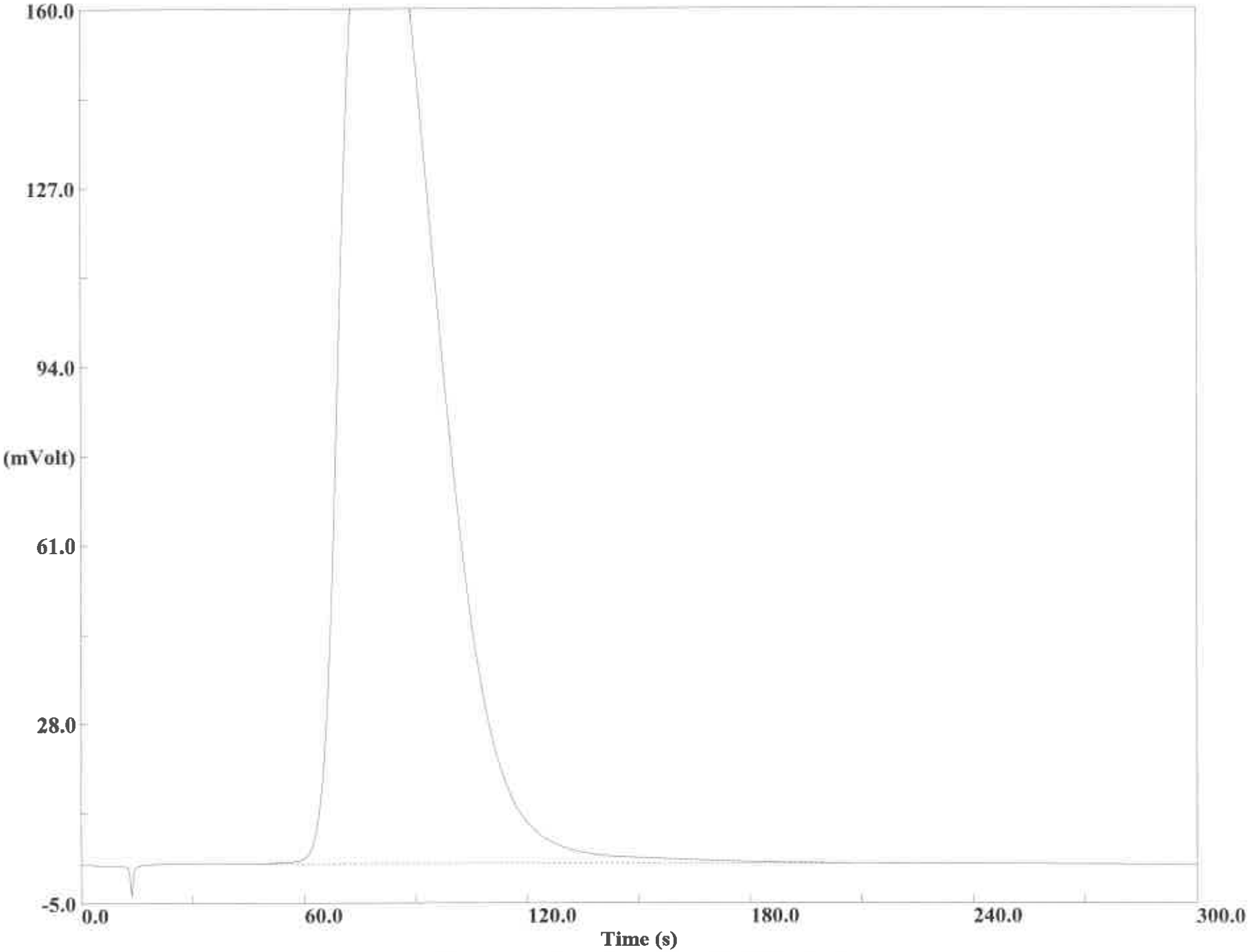
Filename C:\data\January\A100418022.DAT
Sample name :180-82571-b-2 Analysed :10/04/2018 17:01

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



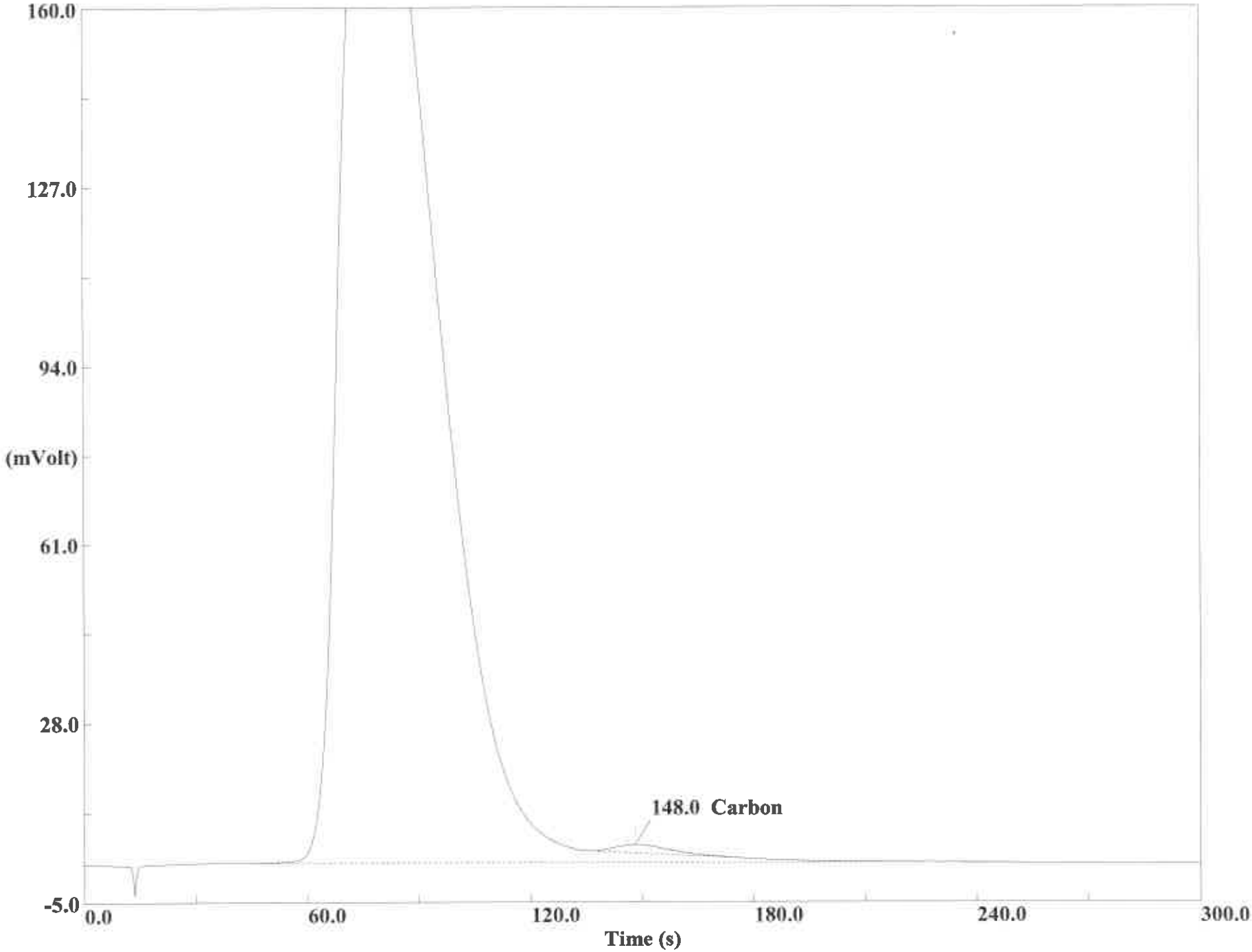
Filename C:\data\January\A100418023.DAT
Sample name :ccv Analysed :10/04/2018 17:06

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



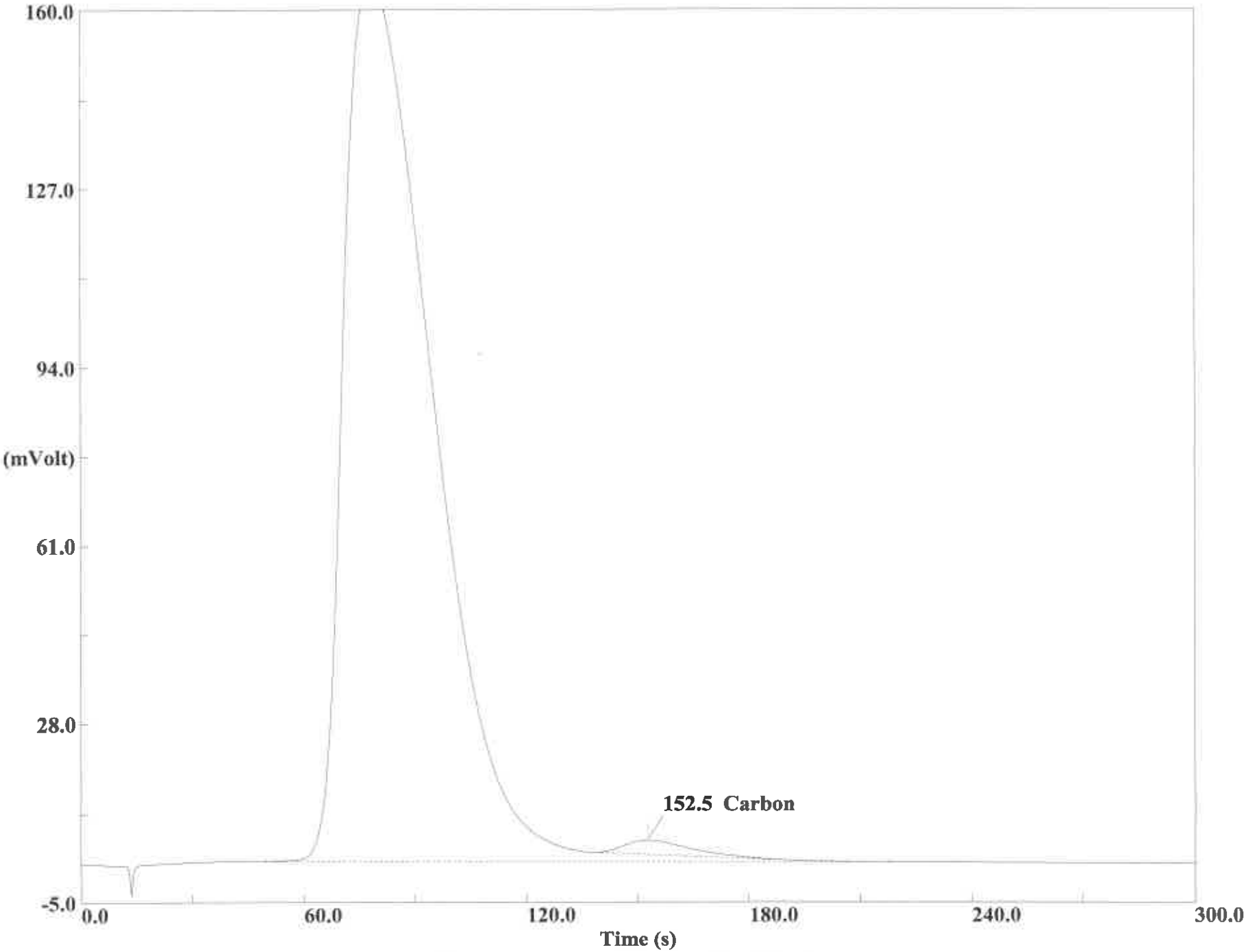
Filename C:\data\January\A100418024.DAT
Sample name :ccb Analysed :10/04/2018 17:11

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



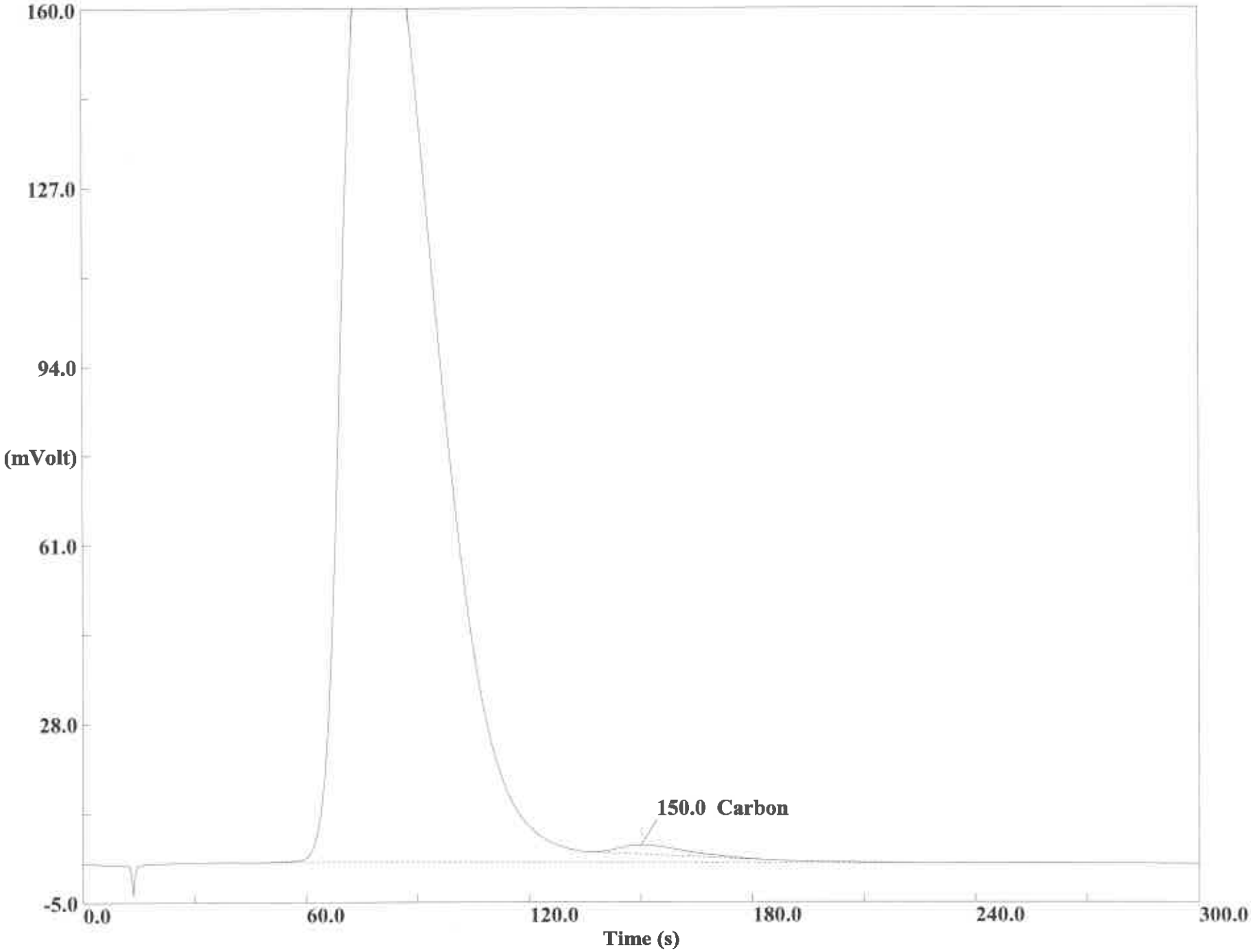
Filename C:\data\January\A100418025.DAT
Sample name :180-82571-b-3 Analysed :10/04/2018 17:16

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



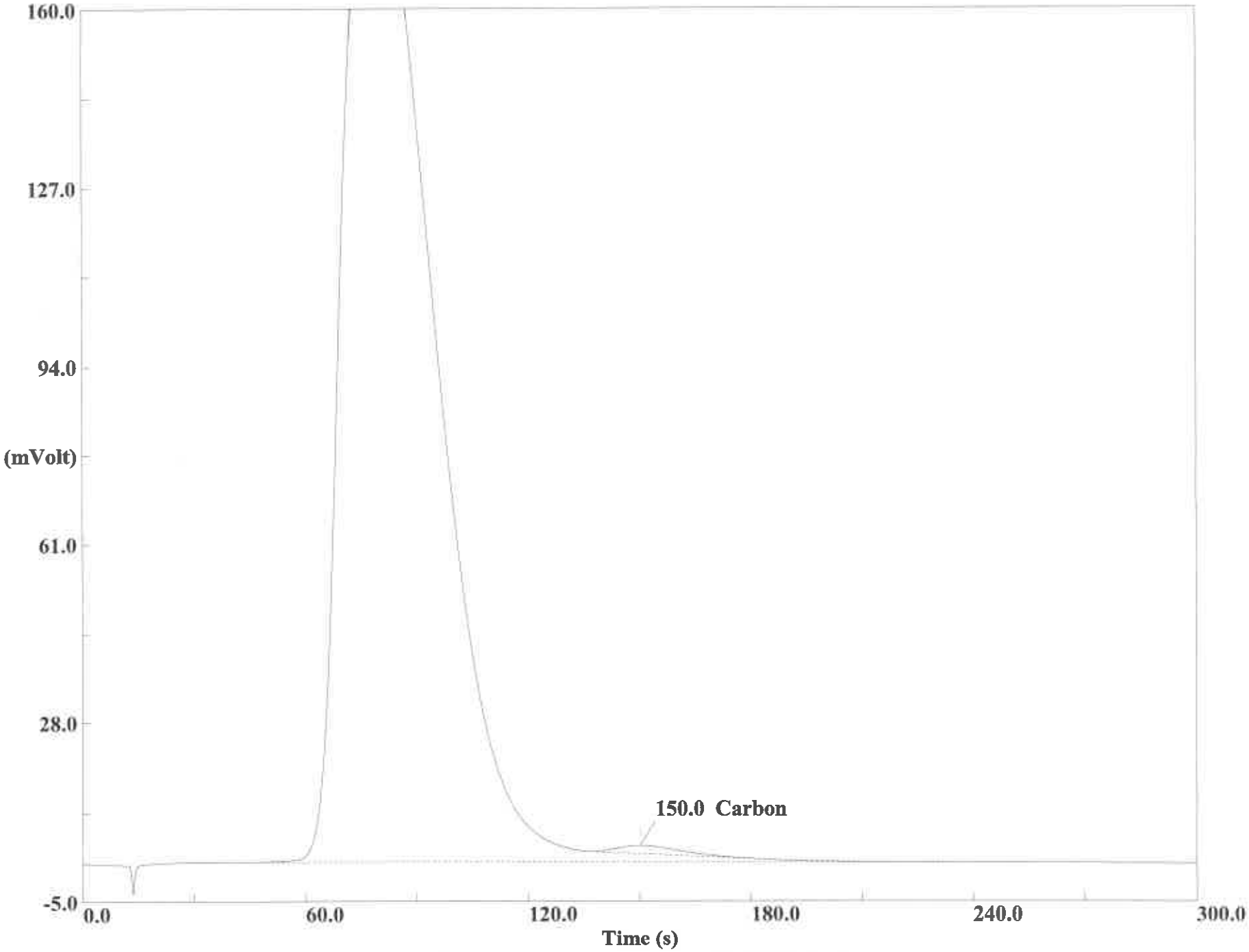
Filename C:\data\January\A100418026.DAT
Sample name :180-82571-b-3 Analysed :10/04/2018 17:21

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



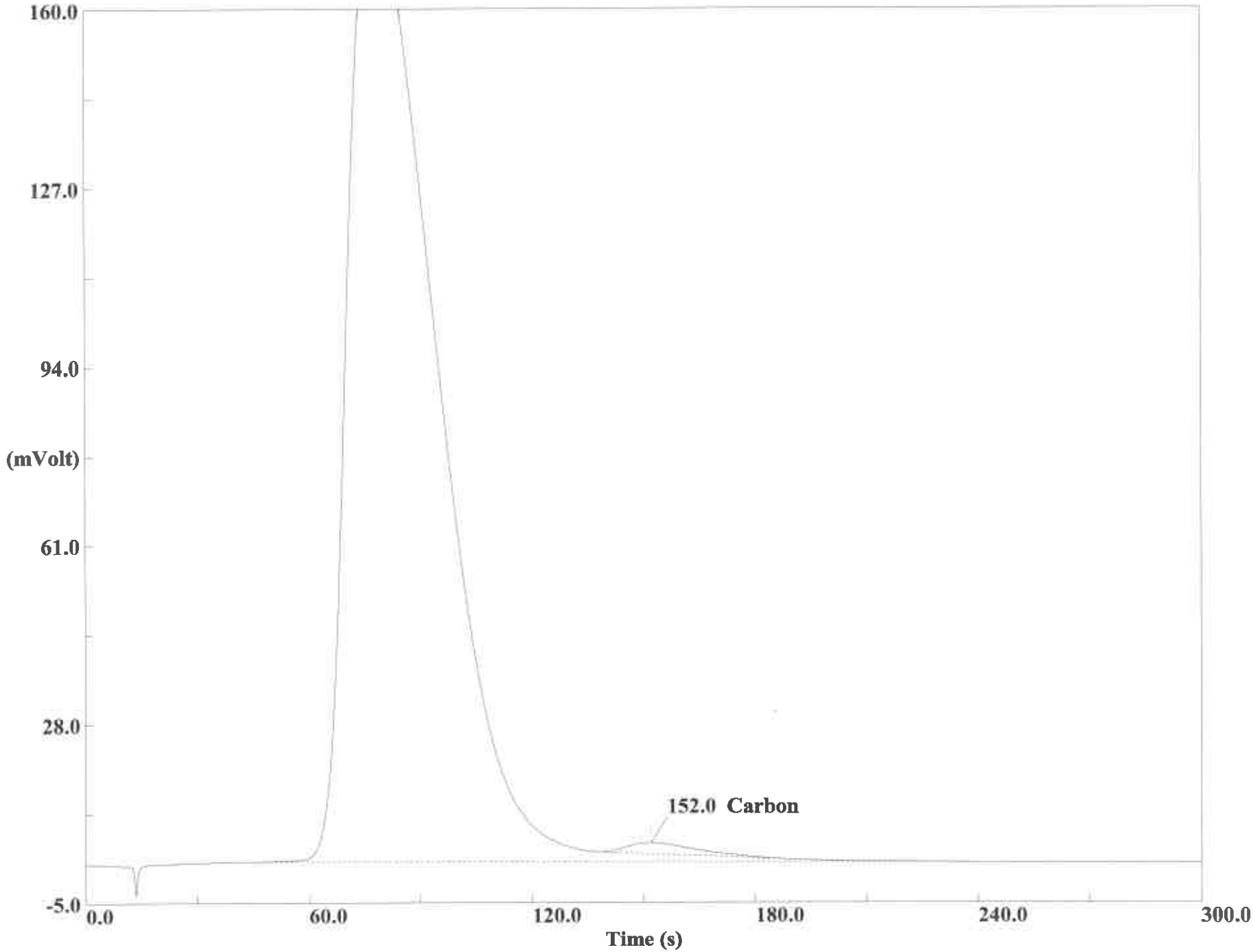
Filename C:\data\January\A100418027.DAT
Sample name :180-82571-b-4 Analysed :10/04/2018 17:26

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



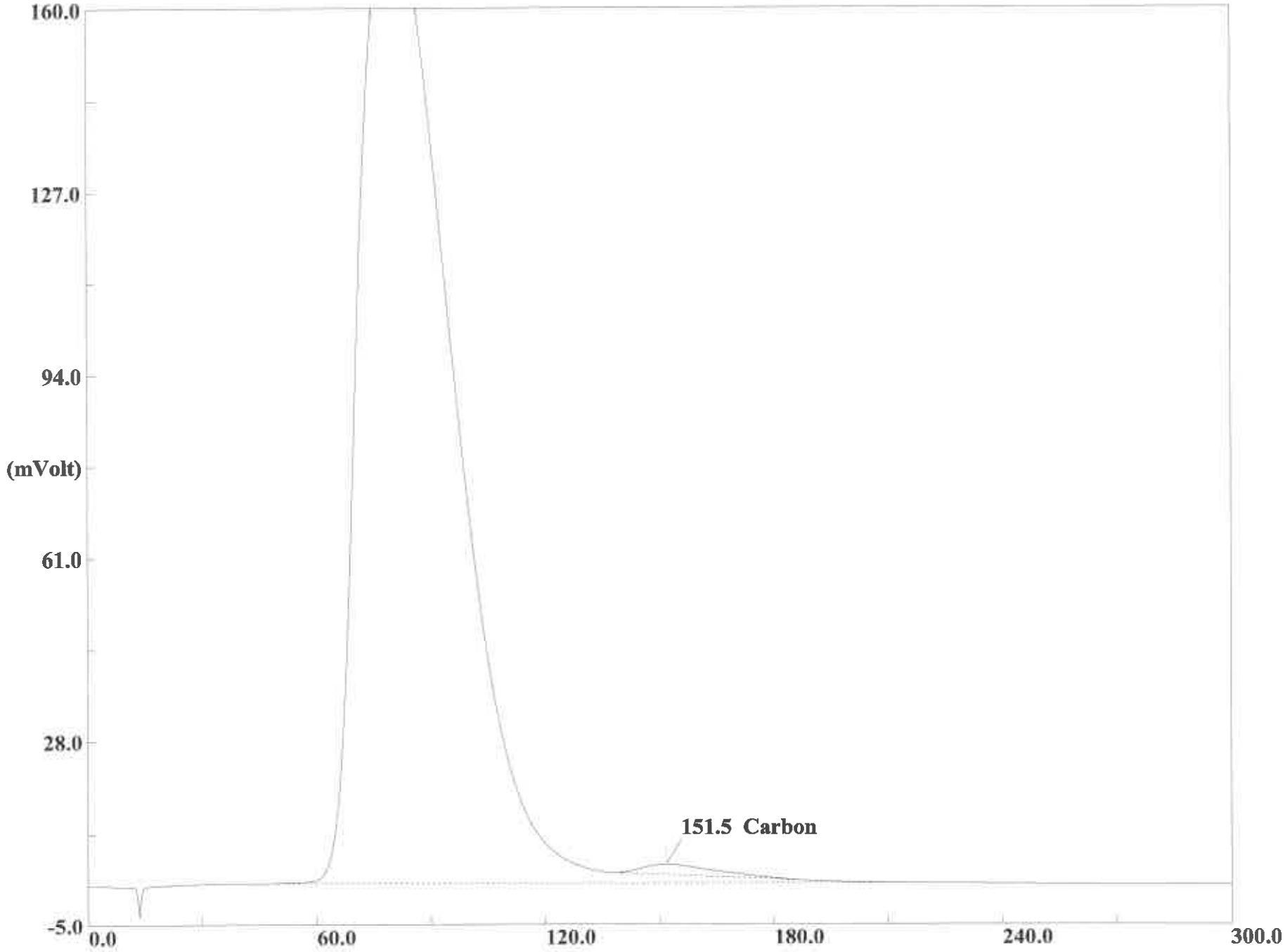
Filename C:\data\January\A100418028.DAT
Sample name :180-82571-b-4 Analysed :10/04/2018 17:32

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



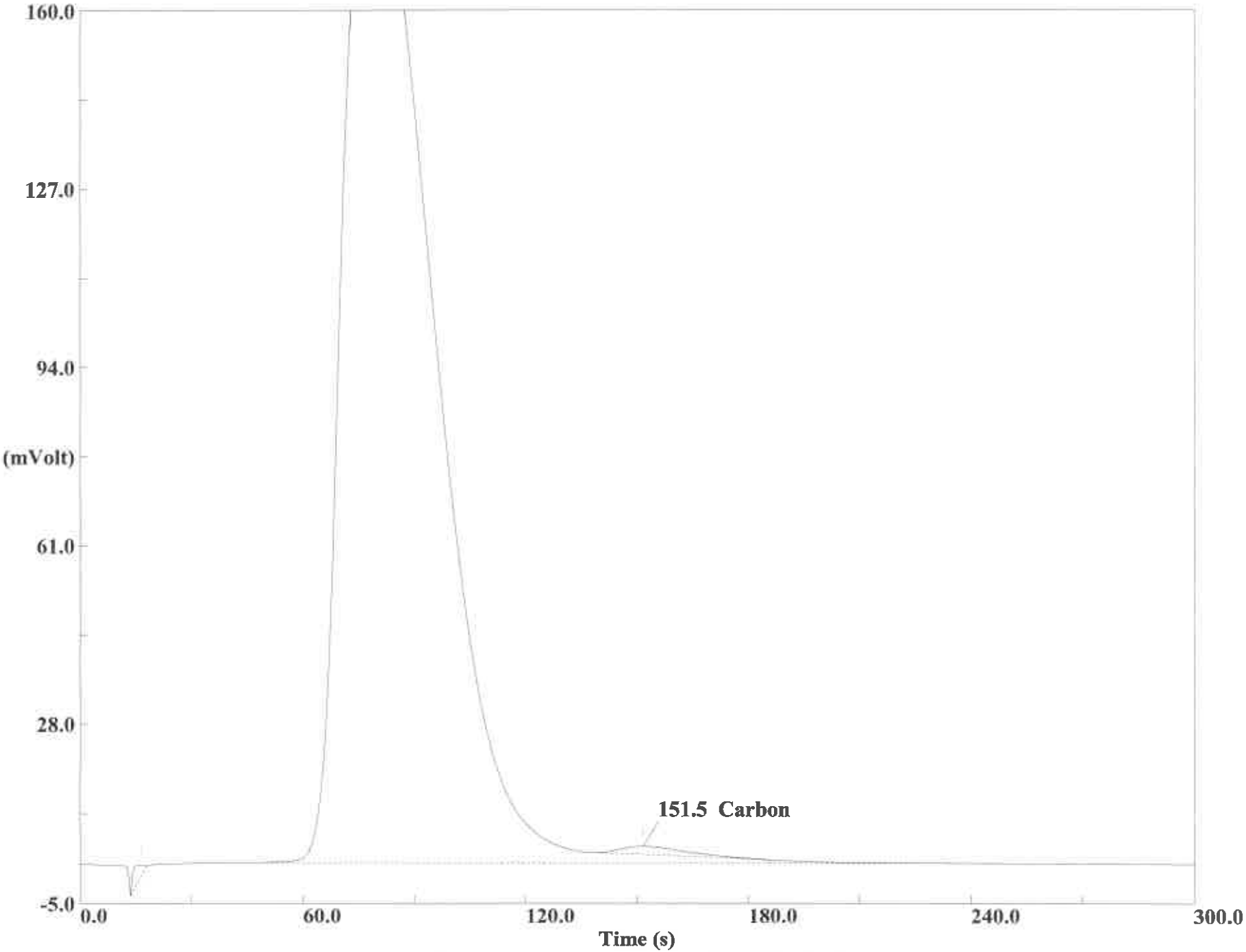
Filename C:\data\January\A100418029.DAT
Sample name :180-82571-b-5 Analysed :10/04/2018 17:37

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



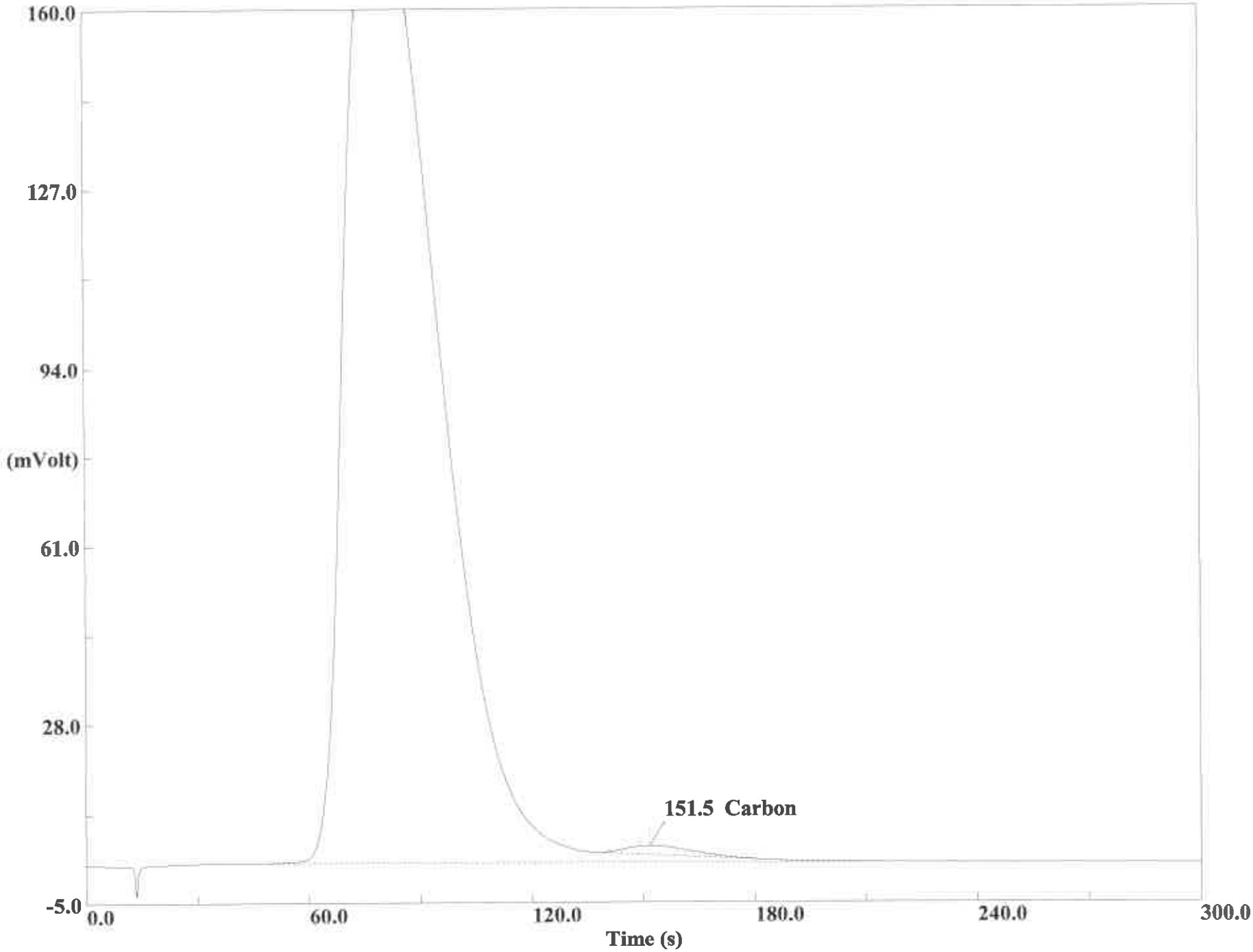
Filename C:\data\January\A100418030.DAT
Sample name :180-82571-b-5 Analysed :10/04/2018 17:42

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



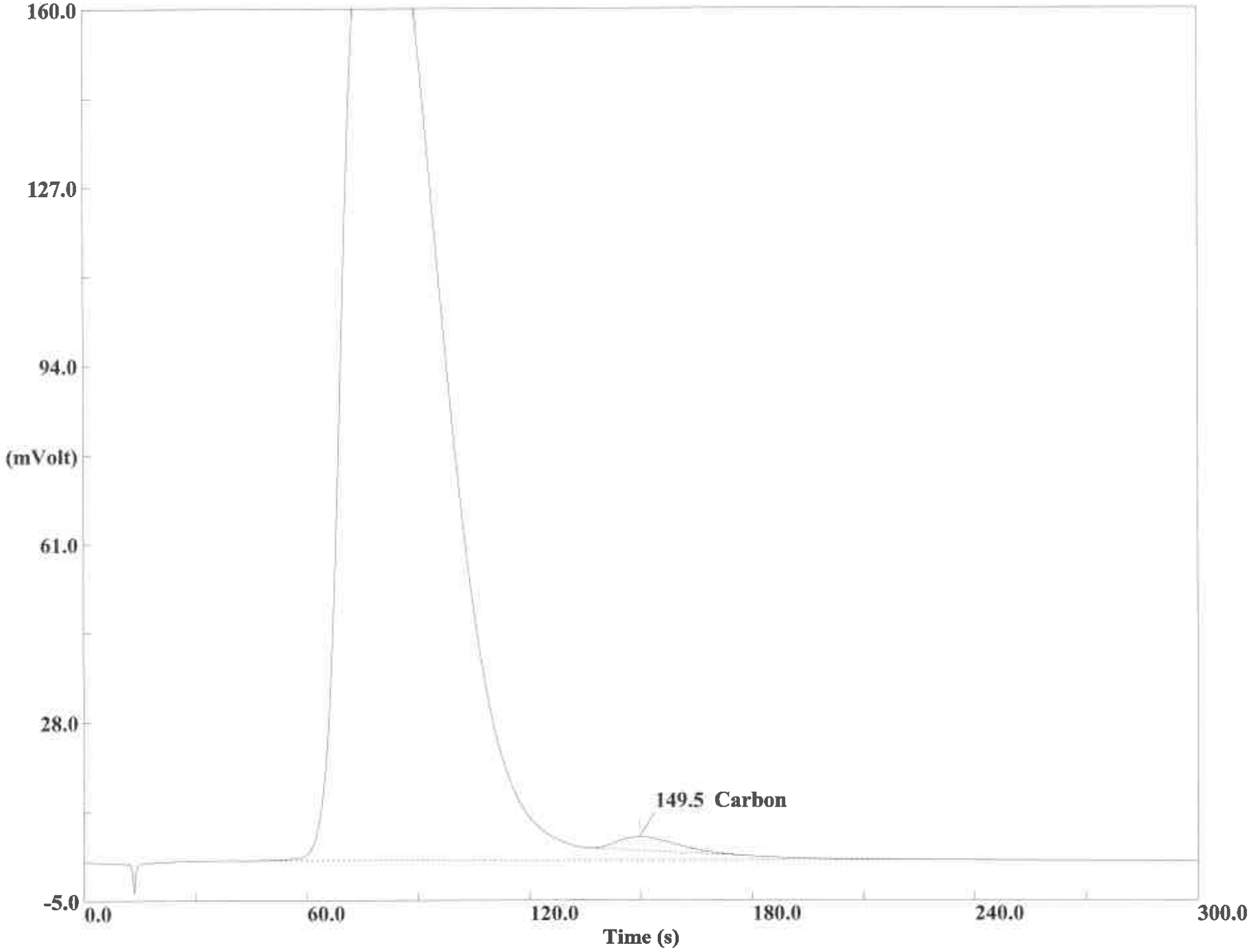
Filename C:\data\January\A100418031.DAT
Sample name :180-82571-b-6 Analysed :10/04/2018 17:47

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



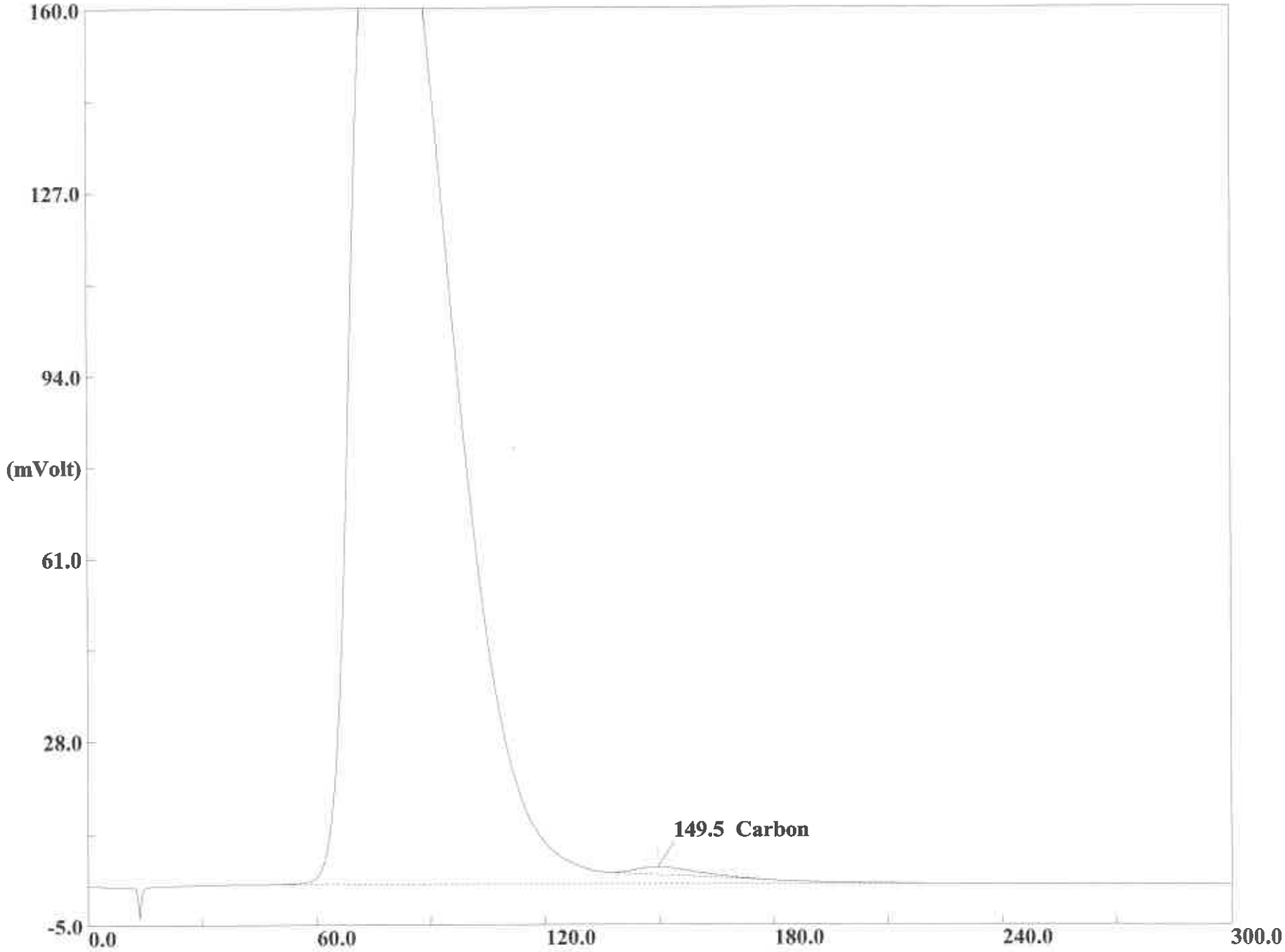
Filename C:\data\January\A100418032.DAT
Sample name :180-82571-b-6 Analysed :10/04/2018 17:52

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



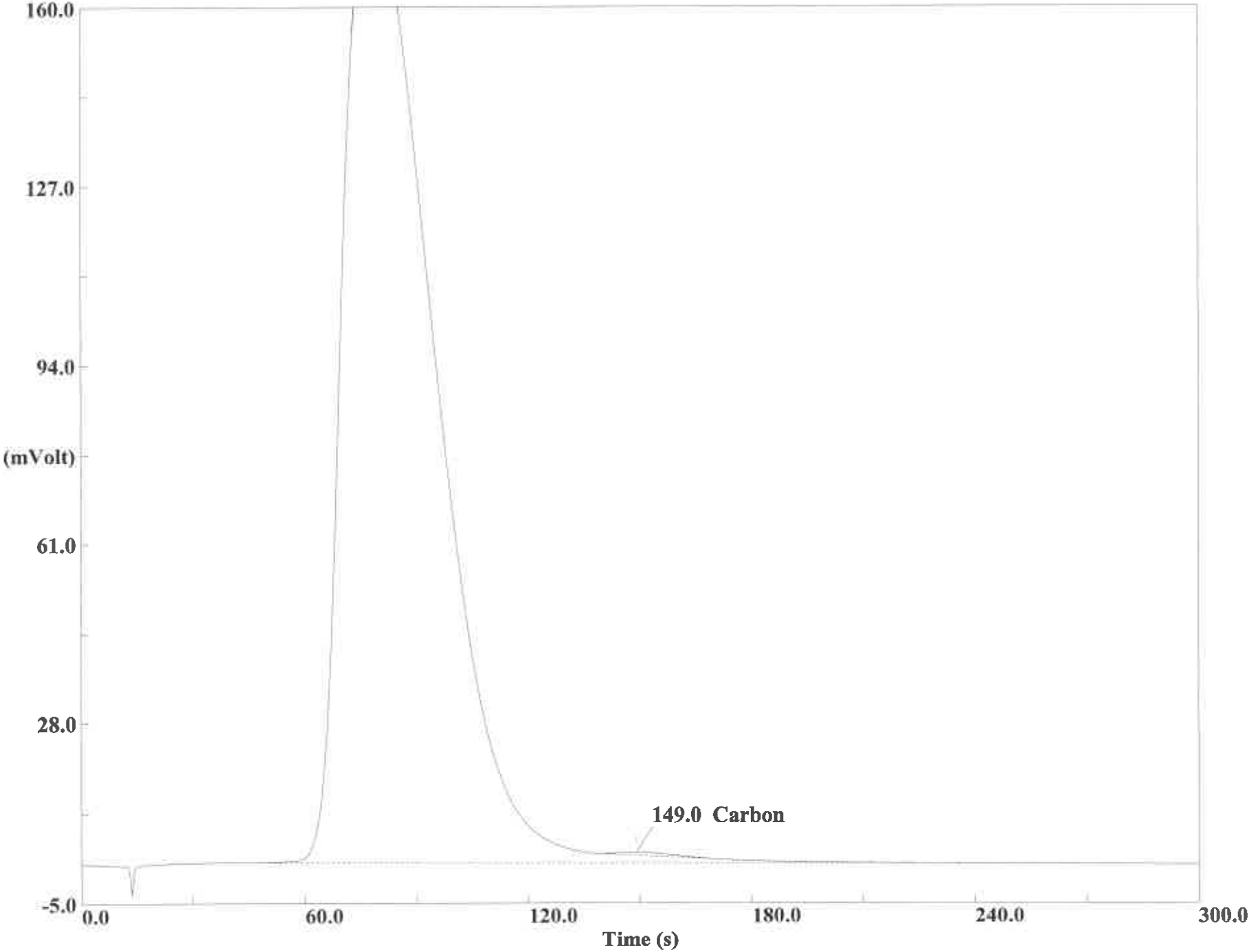
Filename C:\data\January\A100418033.DAT
Sample name :180-82571-b-7 Analysed :10/04/2018 17:57

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



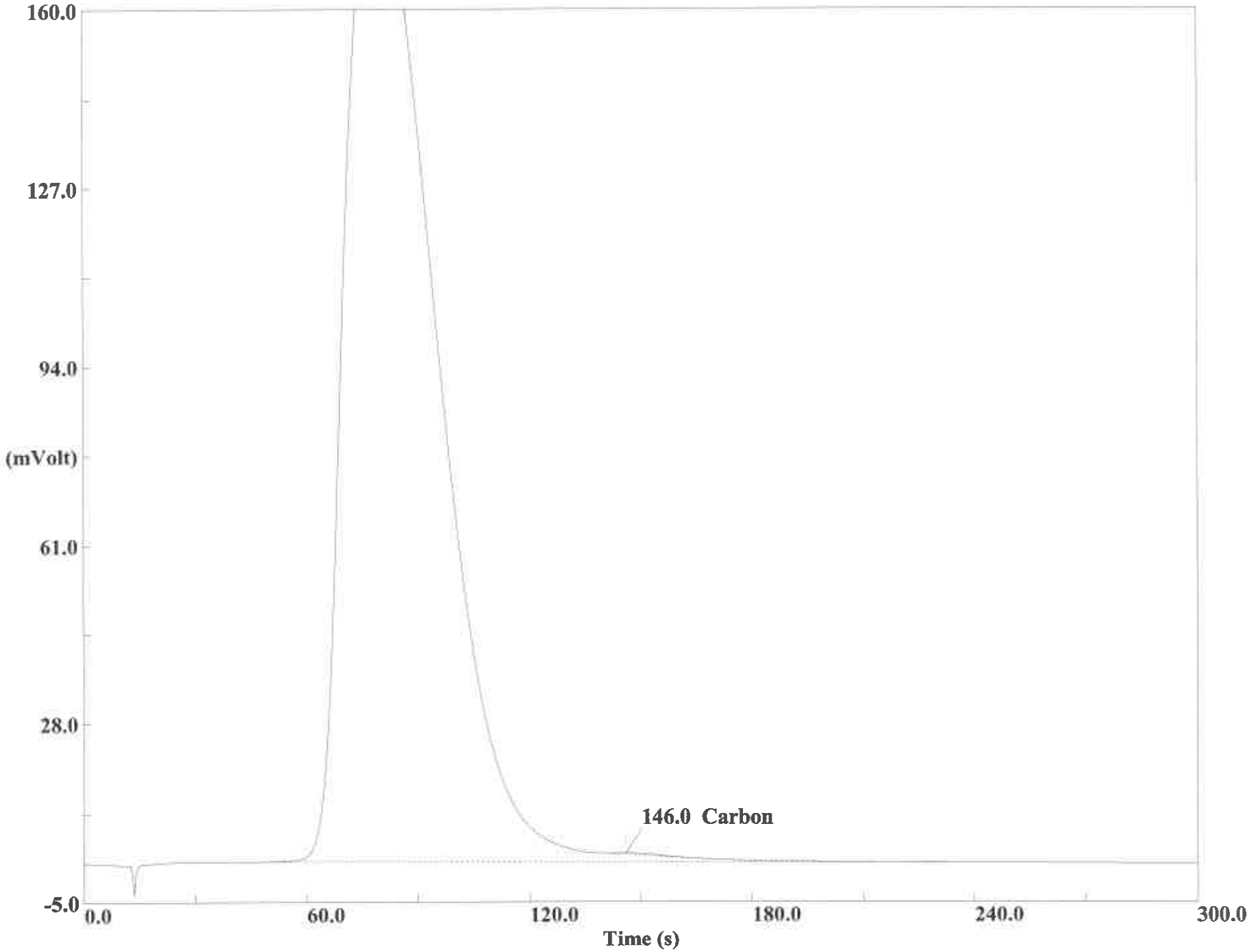
Filename C:\data\January\A100418034.DAT
Sample name :180-82571-b-7 Analysed :10/04/2018 18:02

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



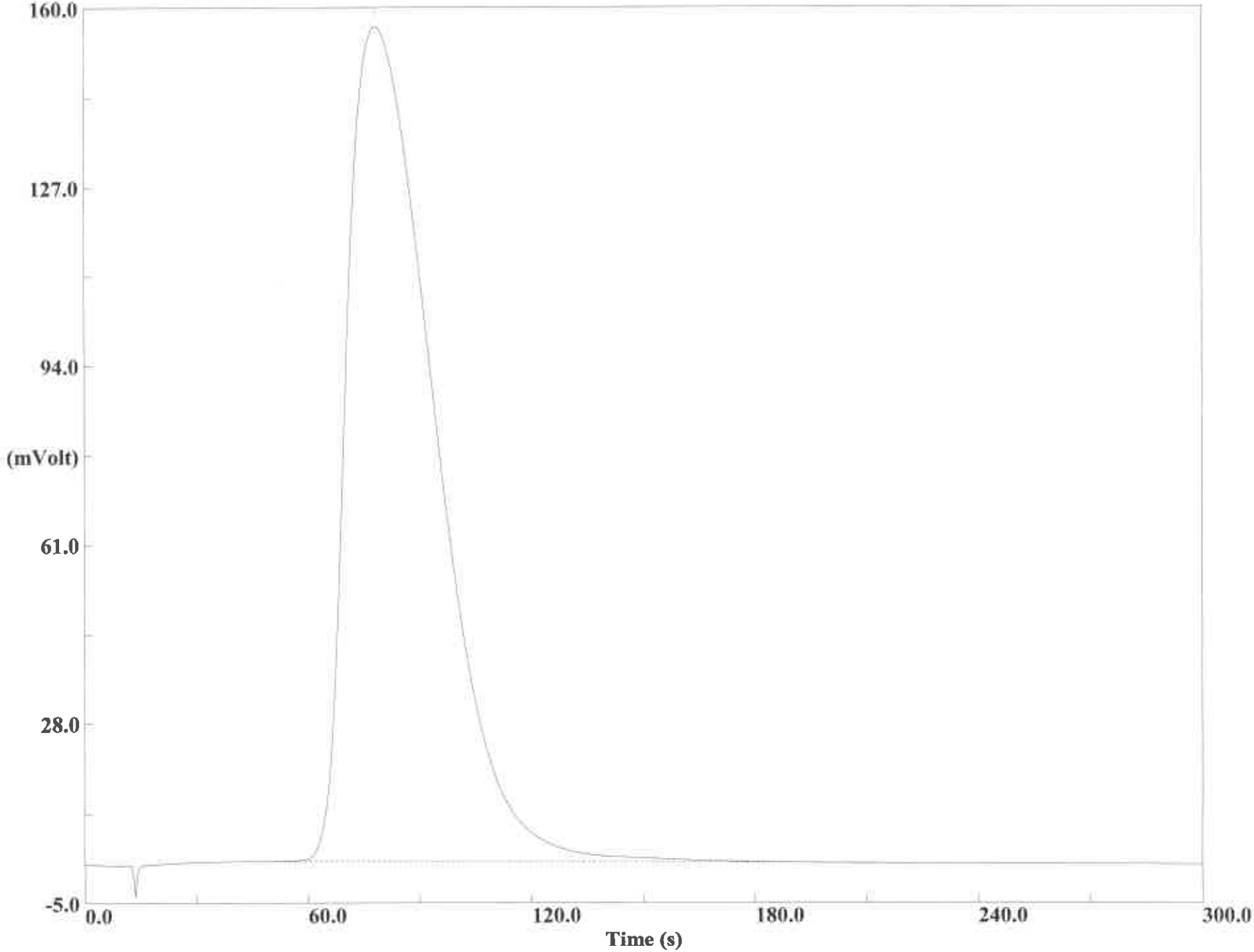
Filename C:\data\January\A100418035.DAT
Sample name :180-82571-b-9 Analysed :10/04/2018 18:07

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



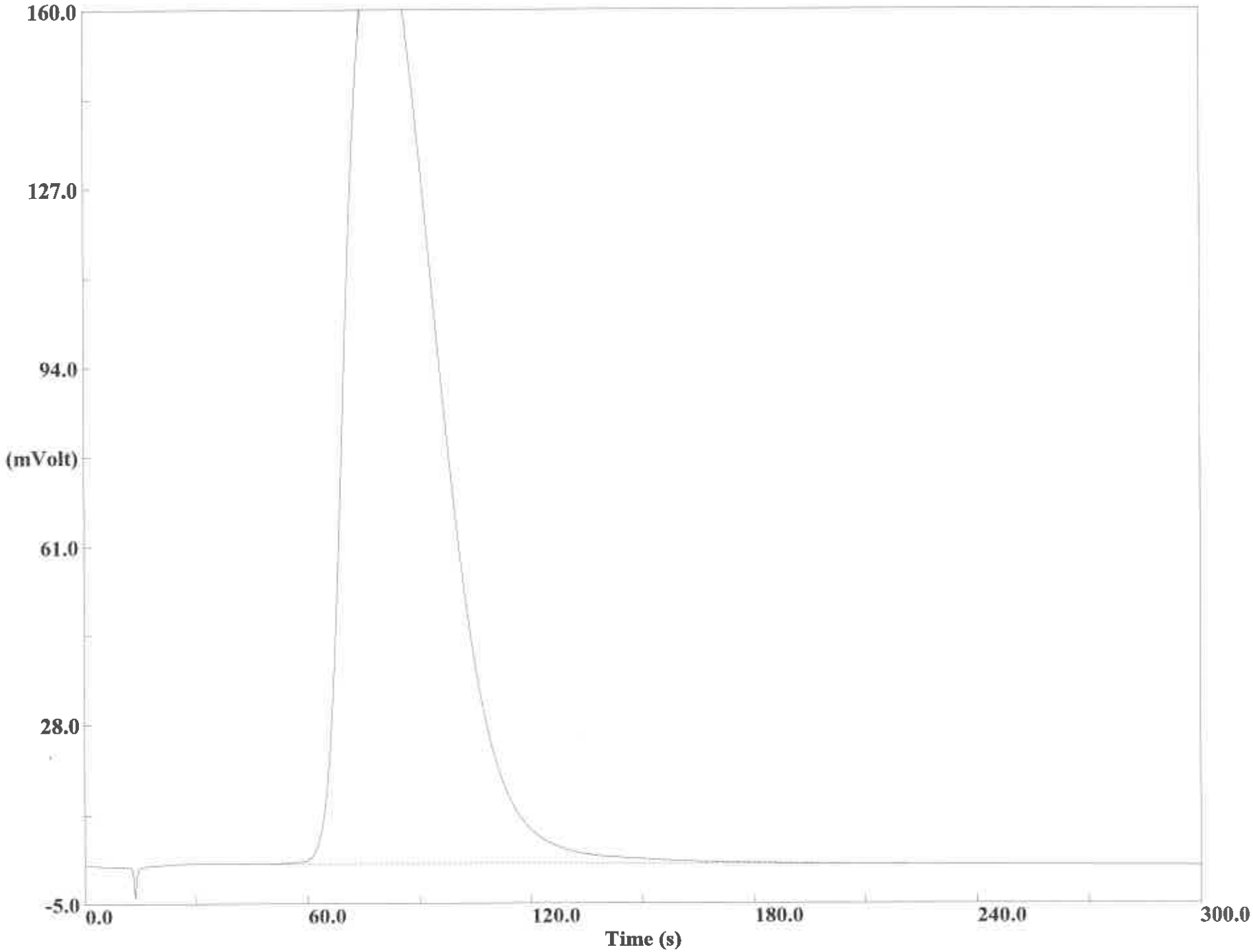
Filename C:\data\January\A100418036.DAT
Sample name :180-82571-b-9 Analysed :10/04/2018 18:12

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



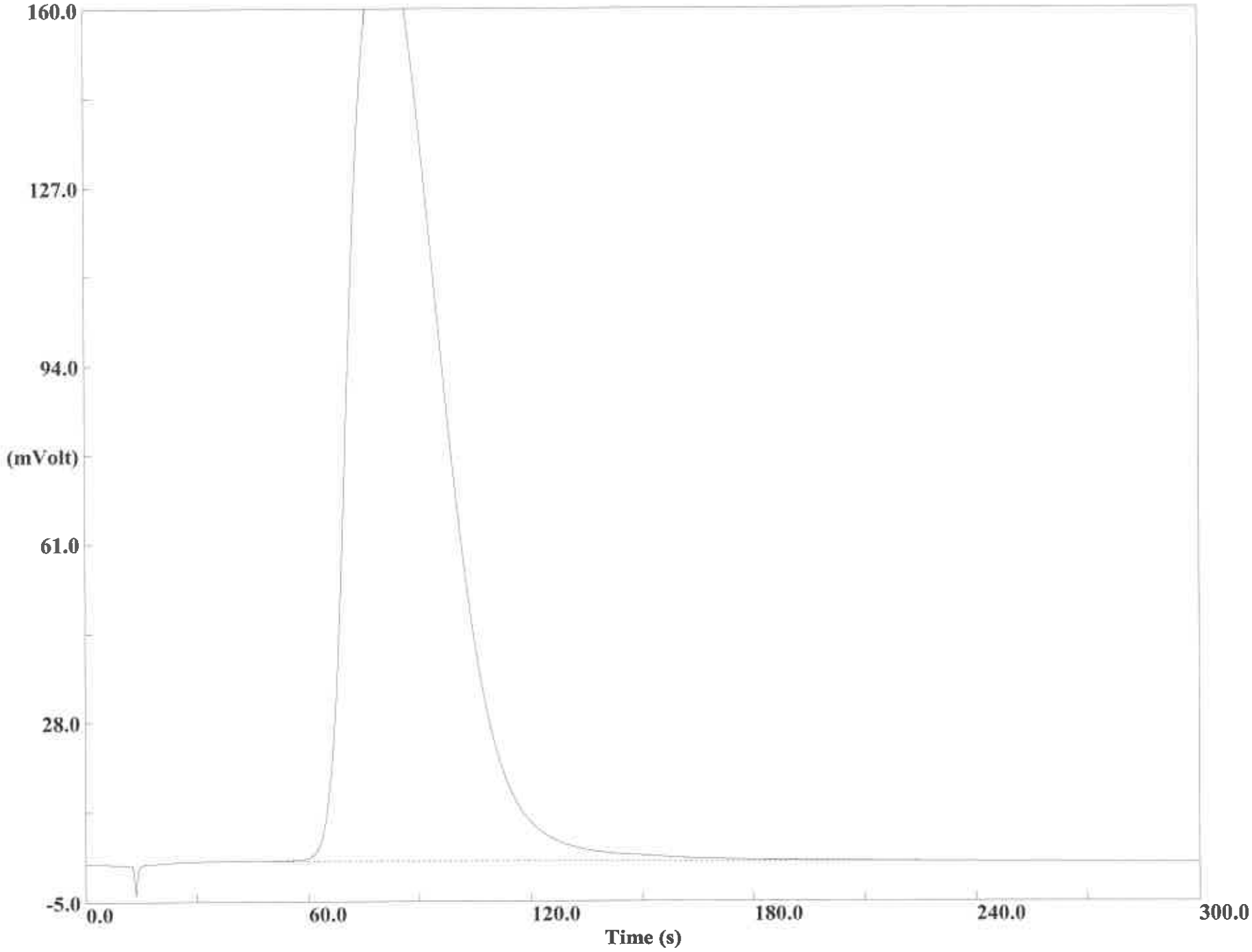
Filename C:\data\January\A100418037.DAT
Sample name :180-82571-b-10 Analysed :10/04/2018 18:17

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



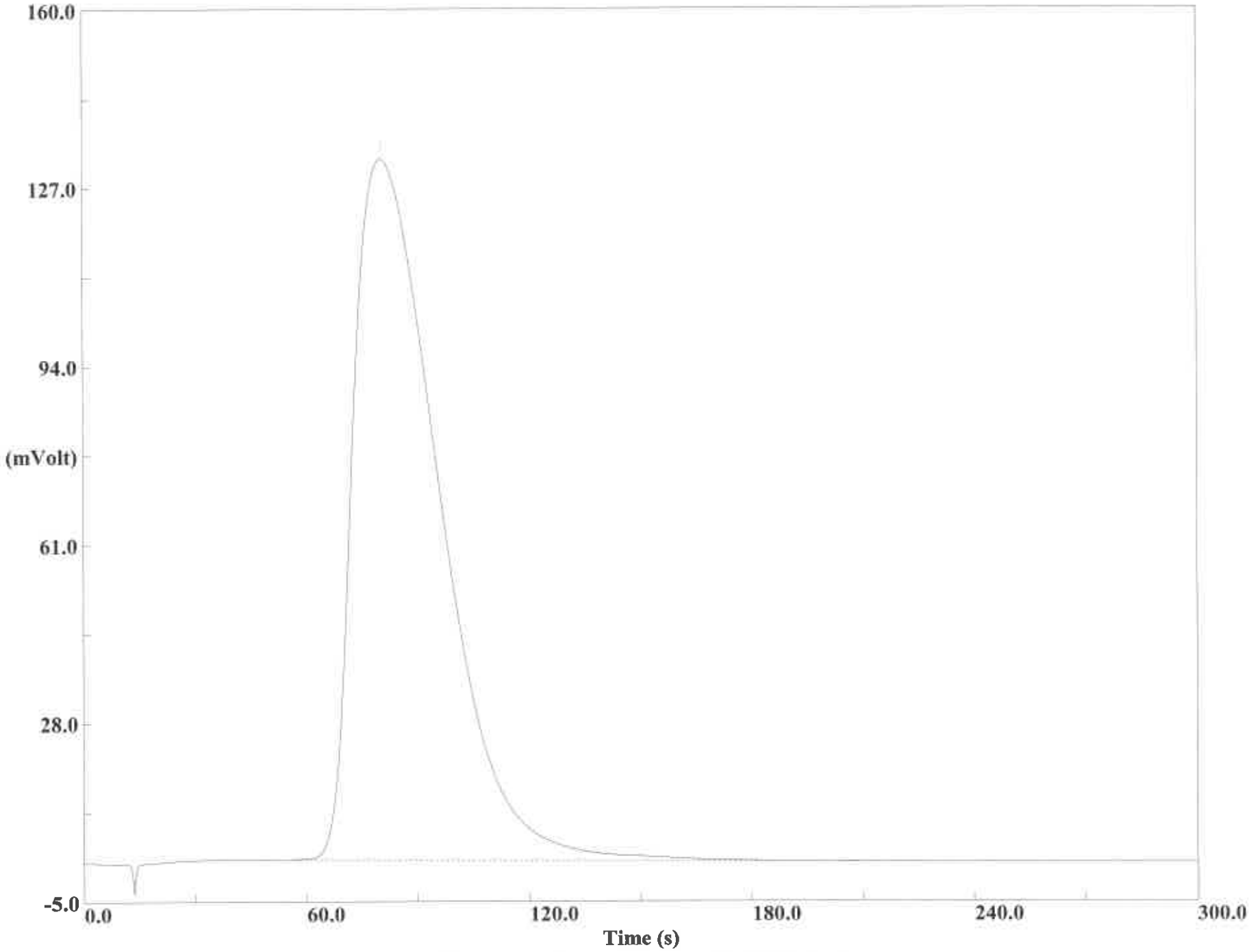
Filename C:\data\January\A100418038.DAT
Sample name :180-82571-b-10 Analysed :10/04/2018 18:22

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



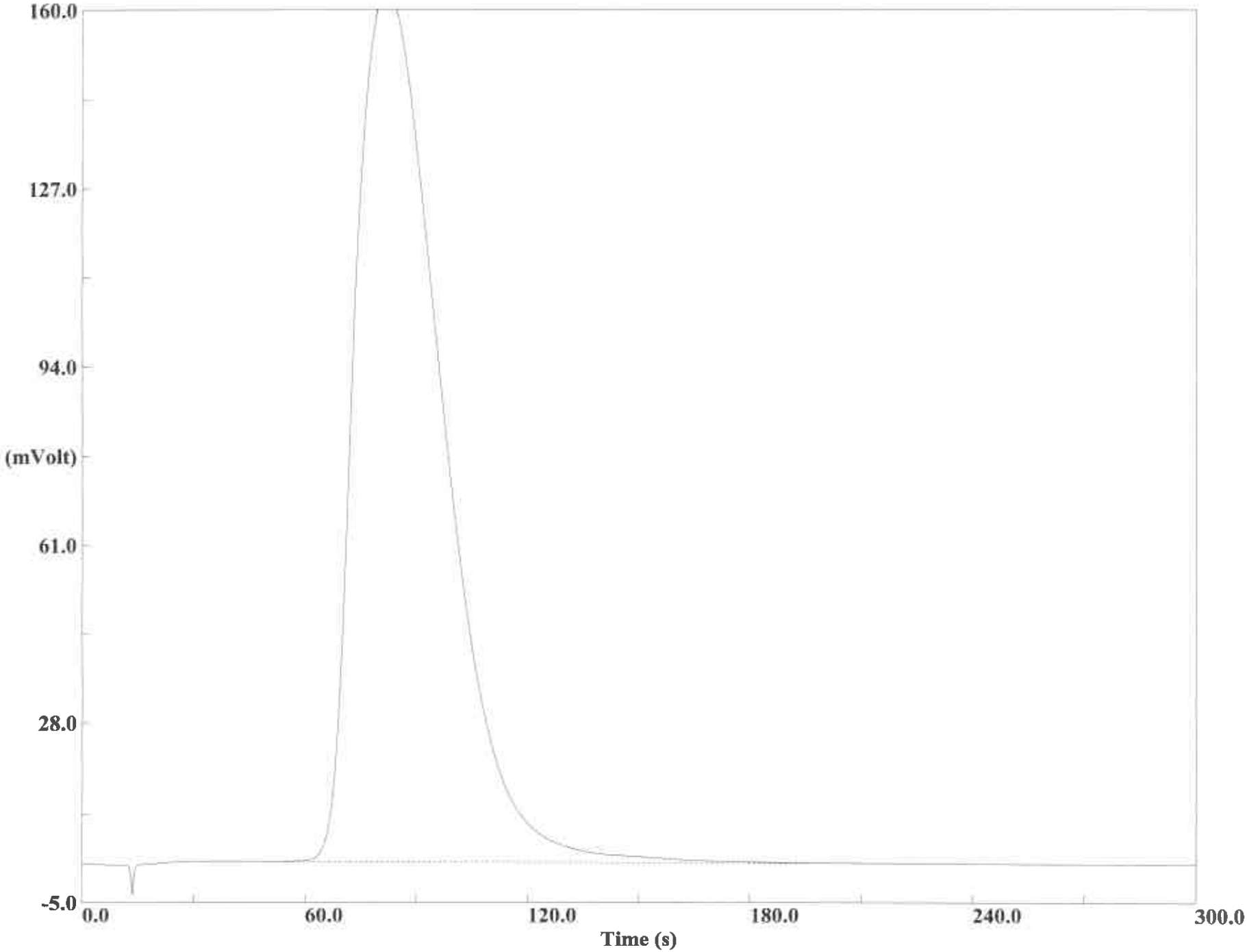
Filename C:\data\January\A100418039.DAT
Sample name :490-160269-a-1 Analysed :10/04/2018 18:27

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



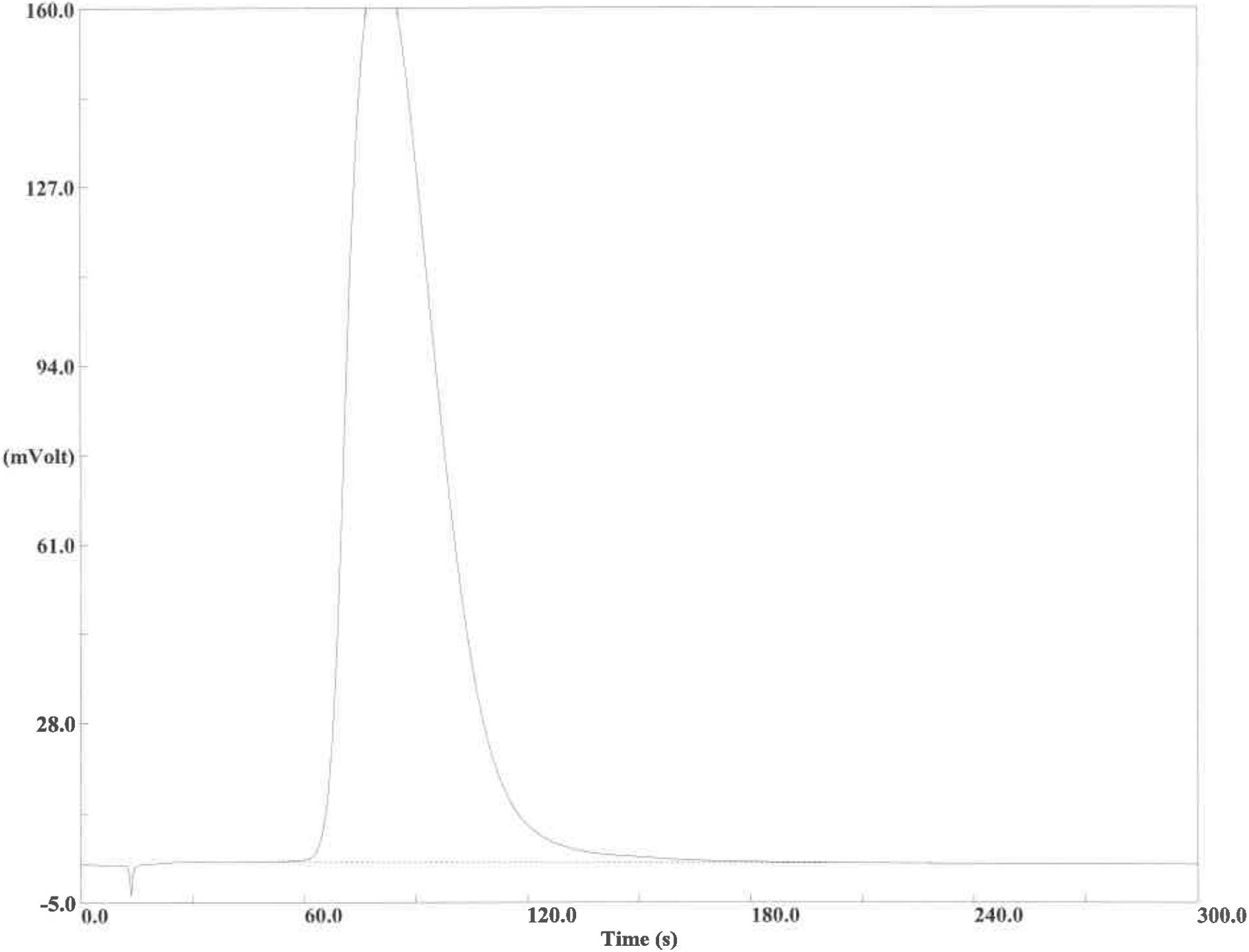
Filename C:\data\January\A100418040.DAT
Sample name :490-160269-a-1 Analysed :10/04/2018 18:32

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



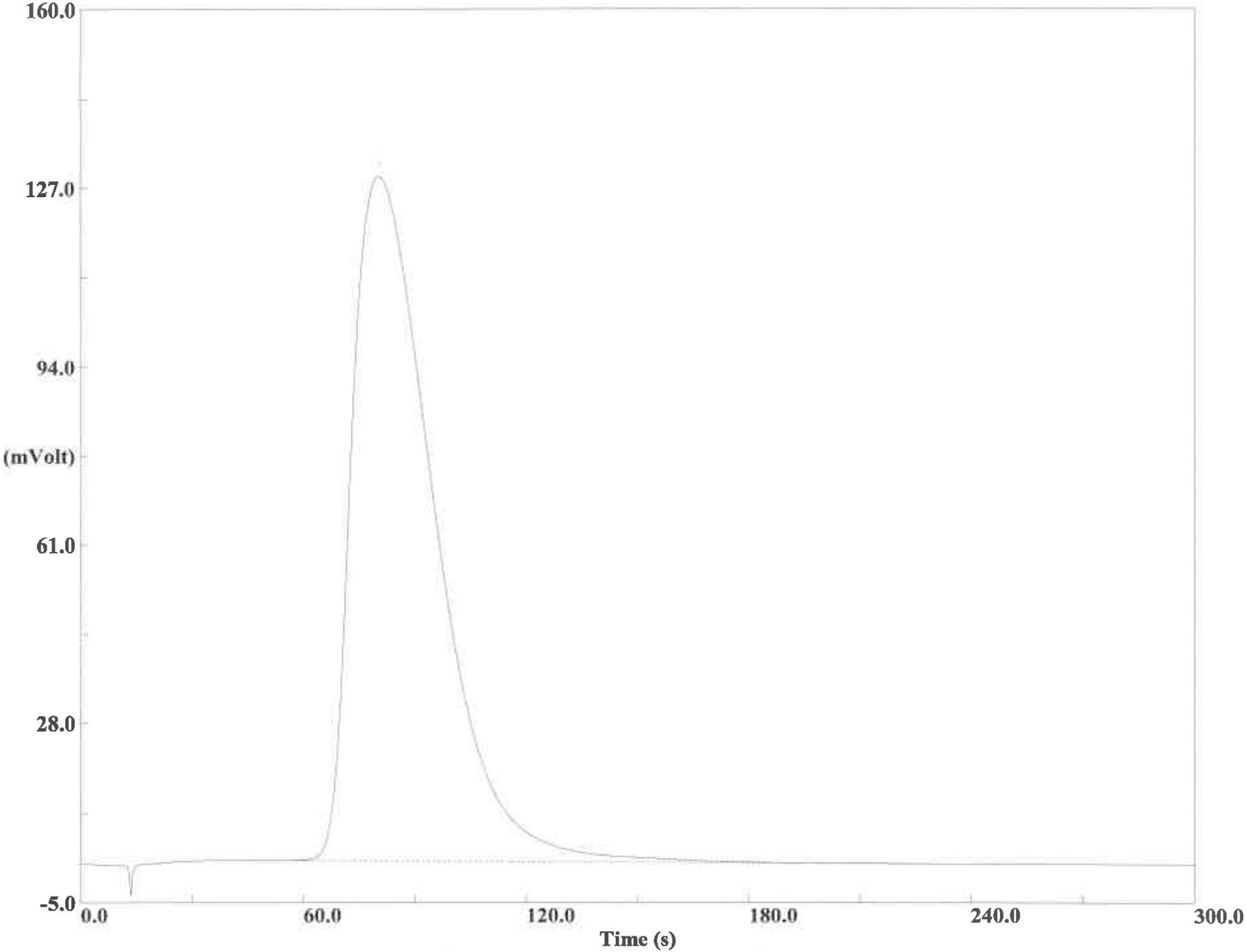
Filename C:\data\January\A100418041.DAT
Sample name :490-160269-c-2 Analysed :10/04/2018 18:37

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



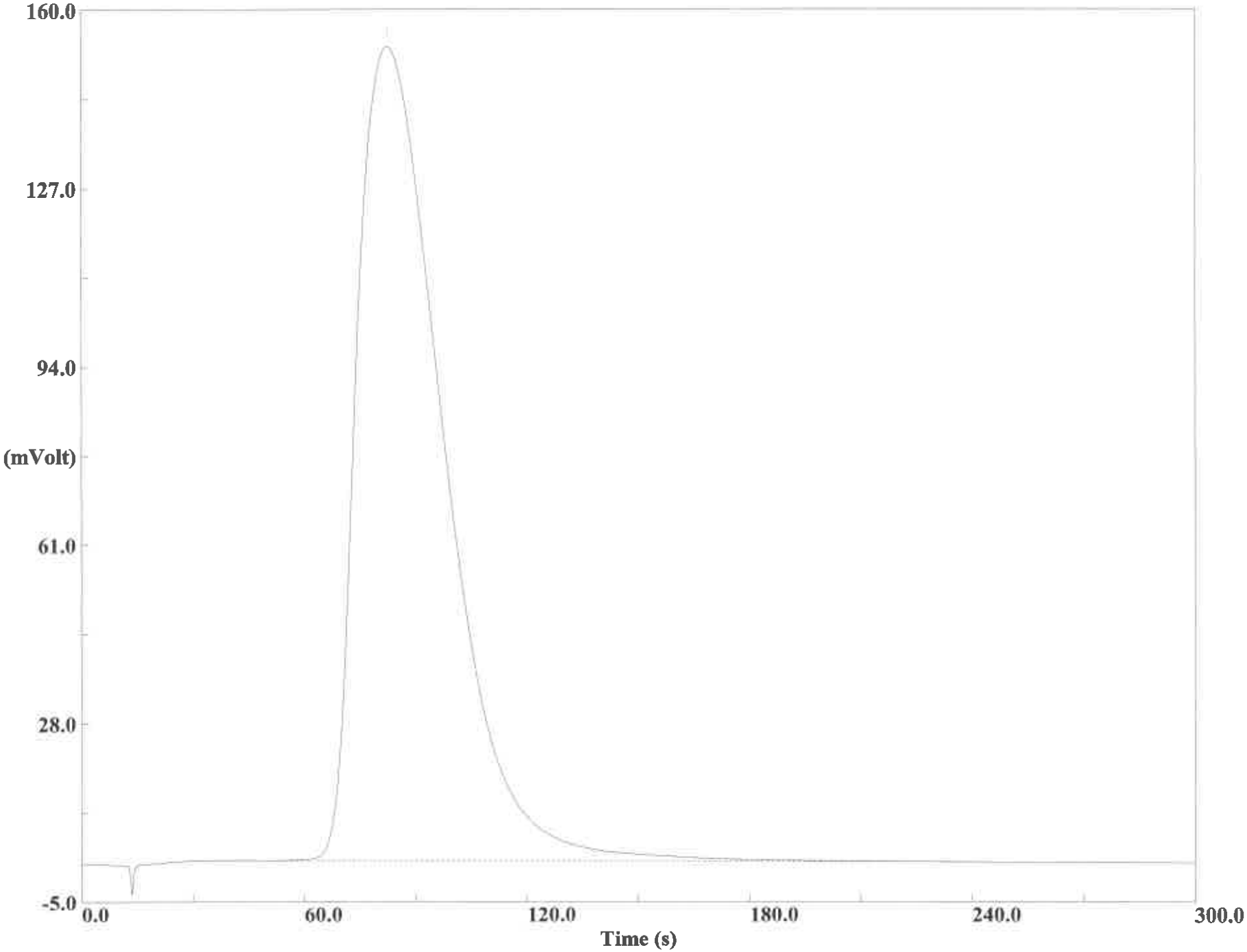
Filename C:\data\January\A100418042.DAT
Sample name :490-160269-c-2 Analysed :10/04/2018 18:43

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



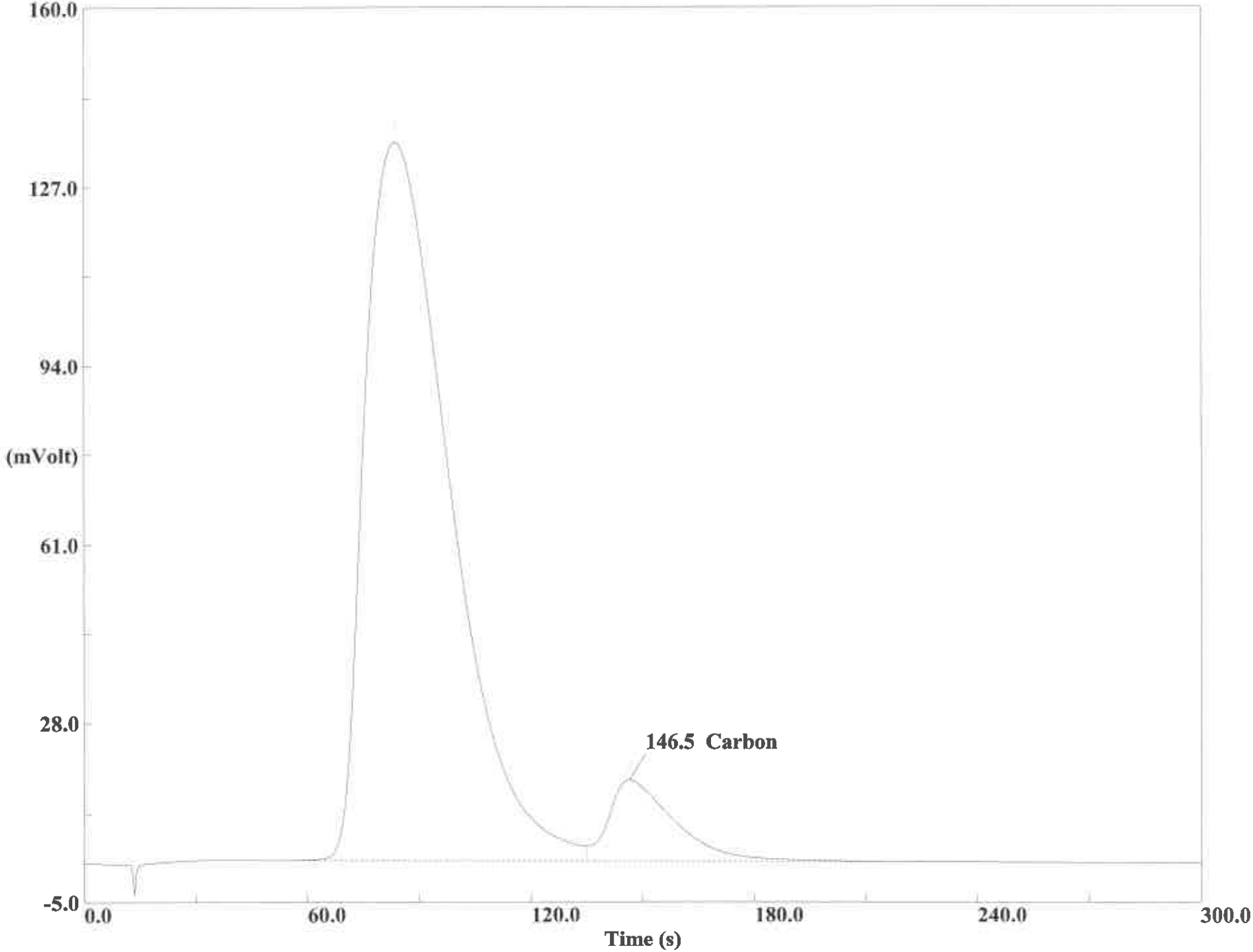
Filename C:\data\January\A100418043.DAT
Sample name :490-160269-a-3 Analysed :10/04/2018 18:48

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



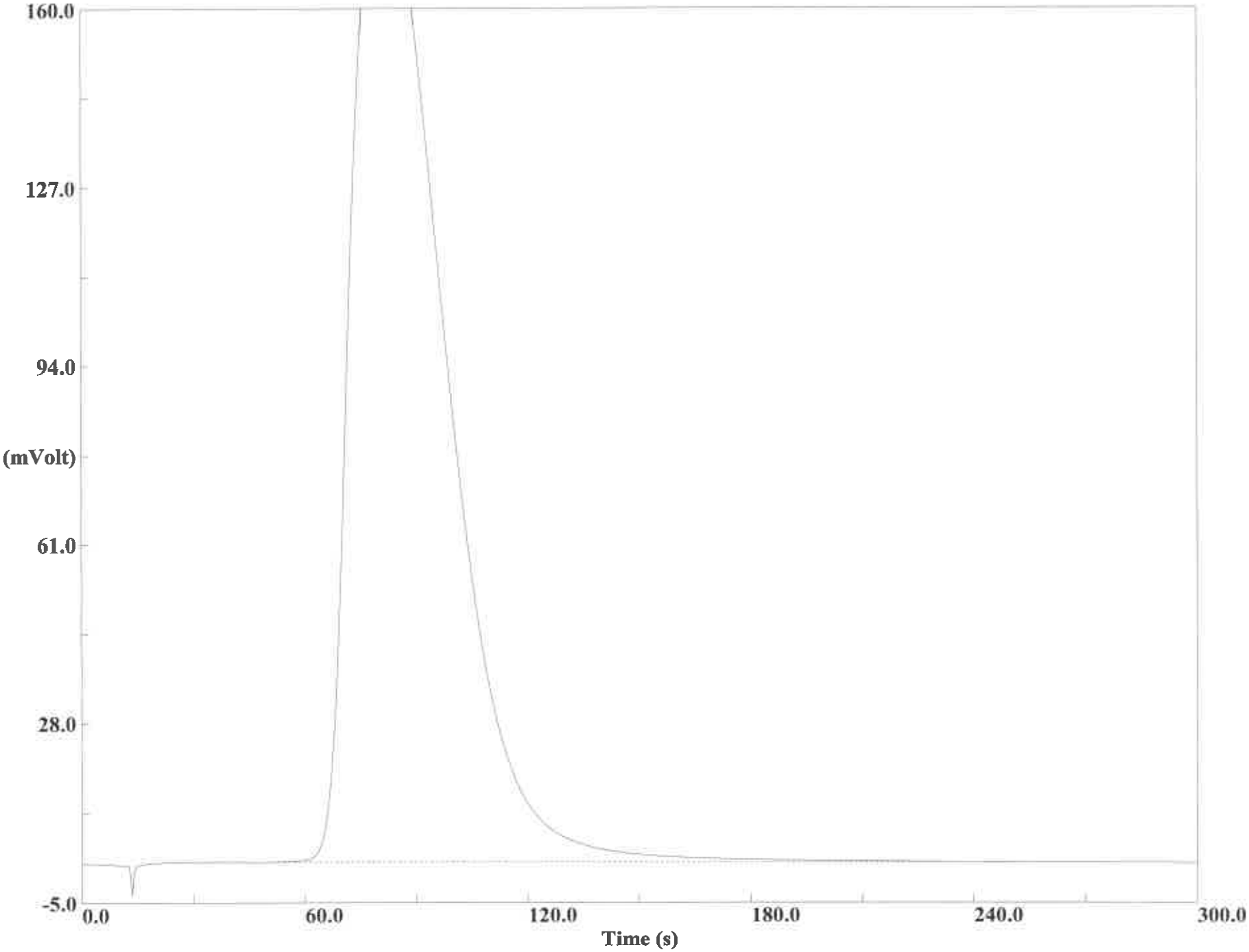
Filename C:\data\January\A100418044.DAT
Sample name :490-160269-a-3 Analysed :10/04/2018 18:53

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



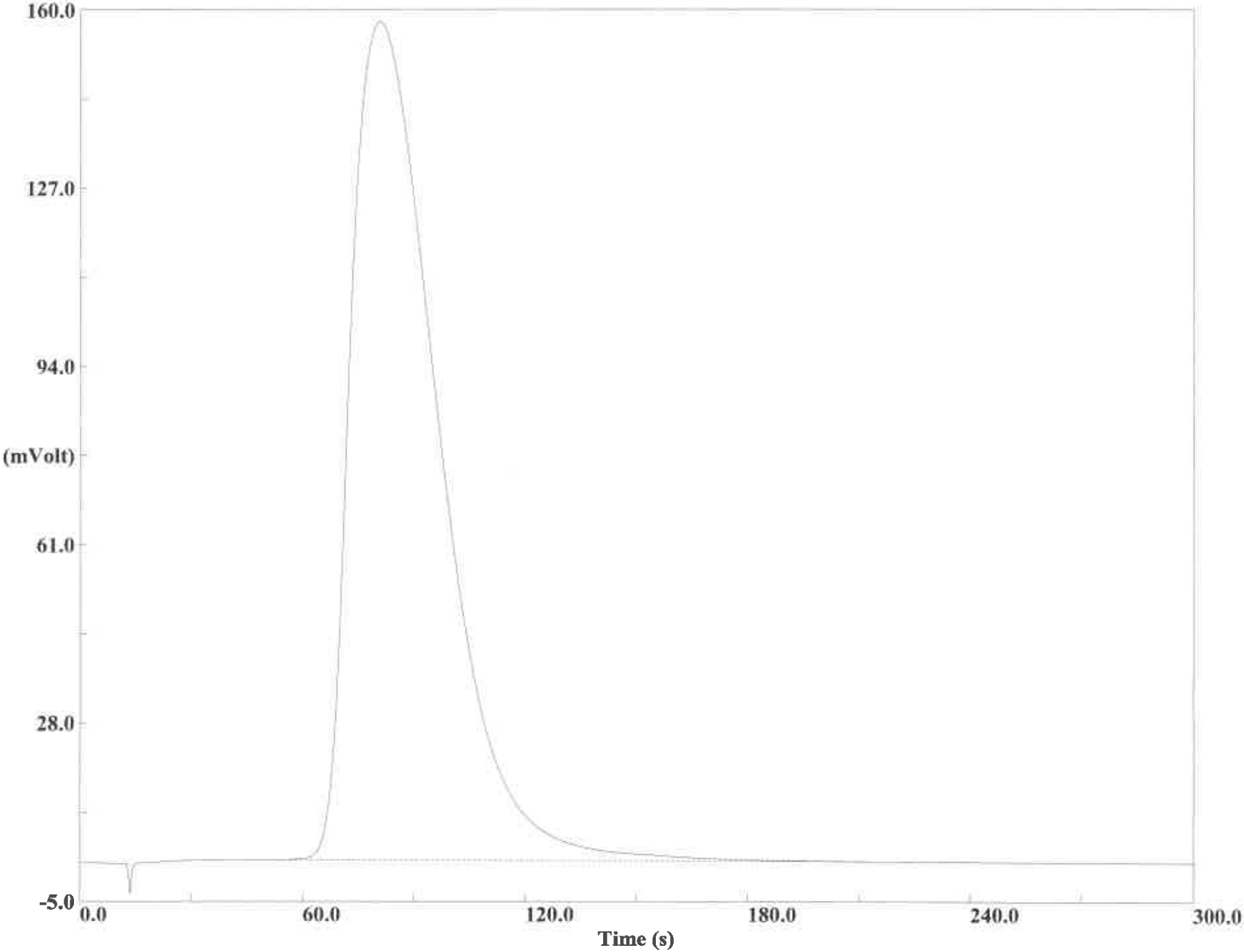
Filename C:\data\January\A100418045.DAT
Sample name :ccv Analysed :10/04/2018 18:58

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



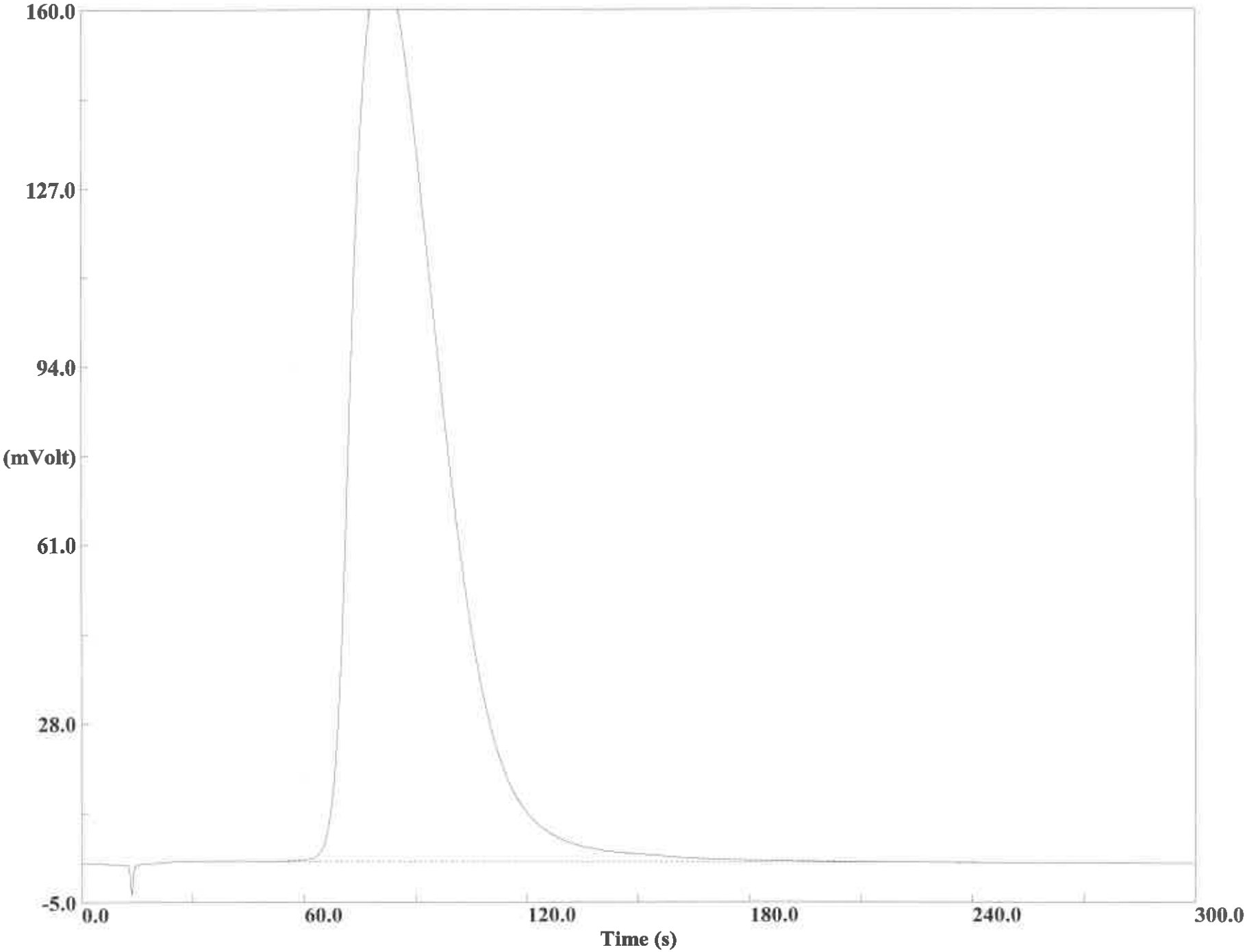
Filename C:\data\January\A100418046.DAT
Sample name :ccb Analysed :10/04/2018 19:03

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



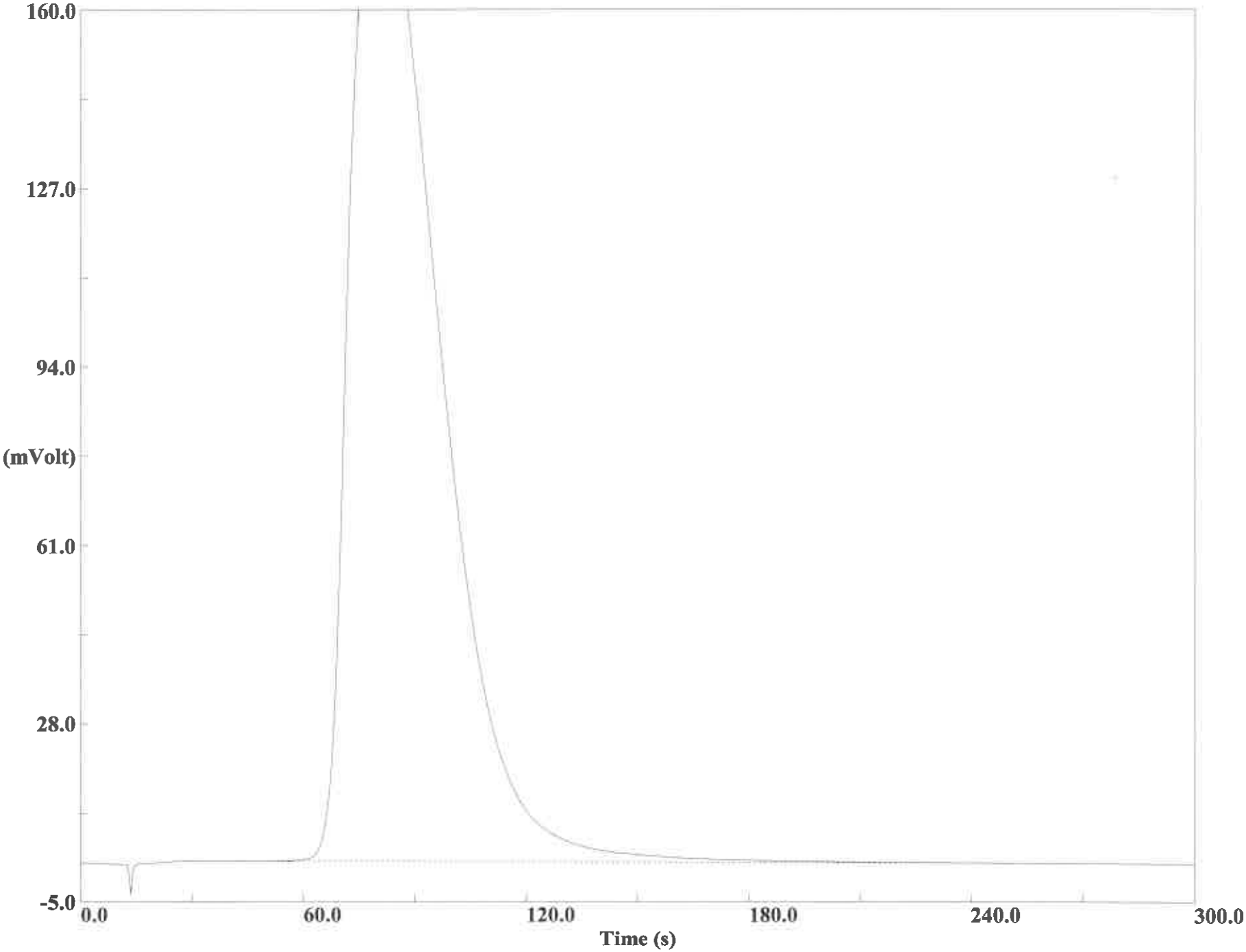
Filename C:\data\January\A100418047.DAT
Sample name :490-160269-c-4 Analysed :10/04/2018 19:08

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



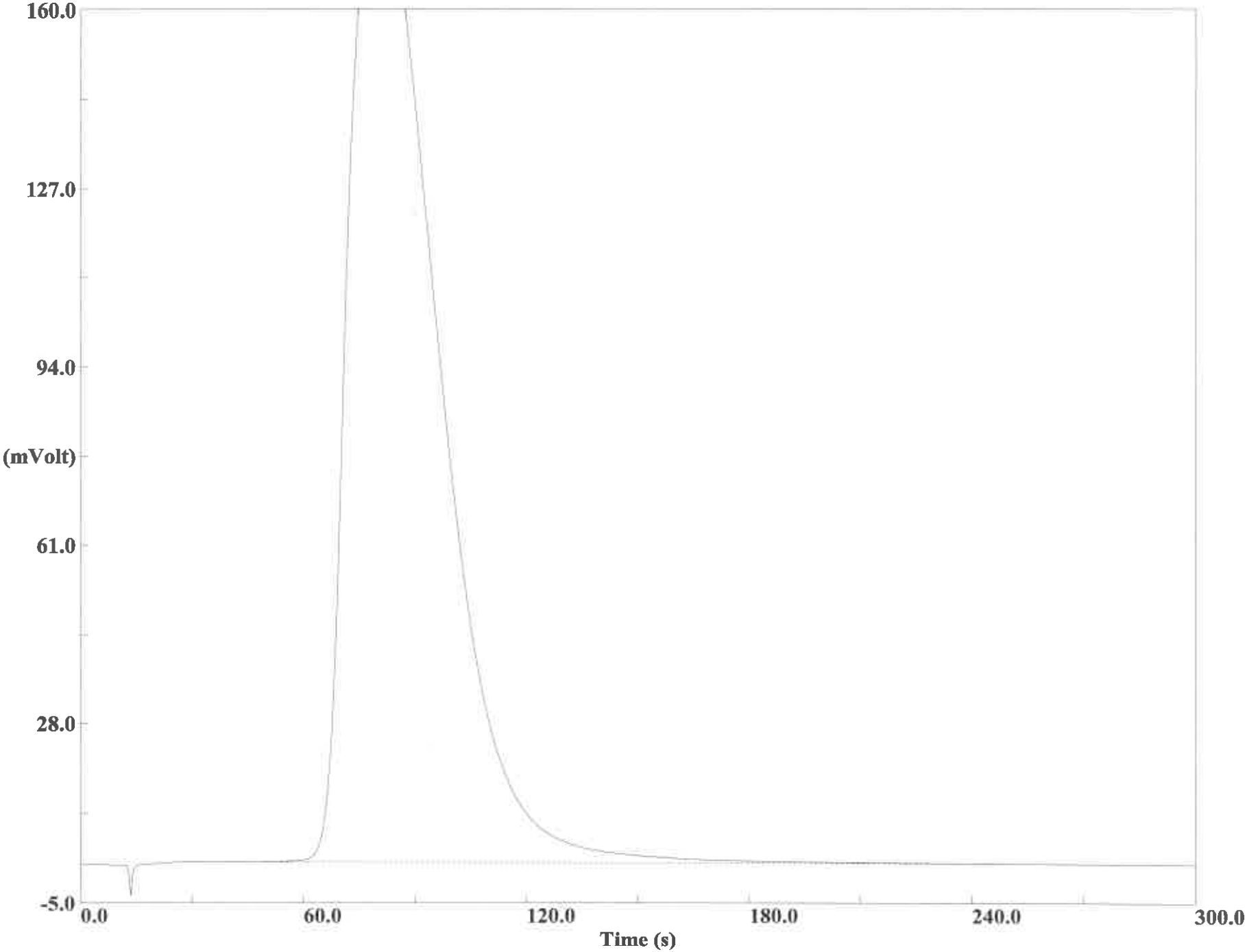
Filename C:\data\January\A100418048.DAT
Sample name :490-160269-c-4 Analysed :10/04/2018 19:13

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



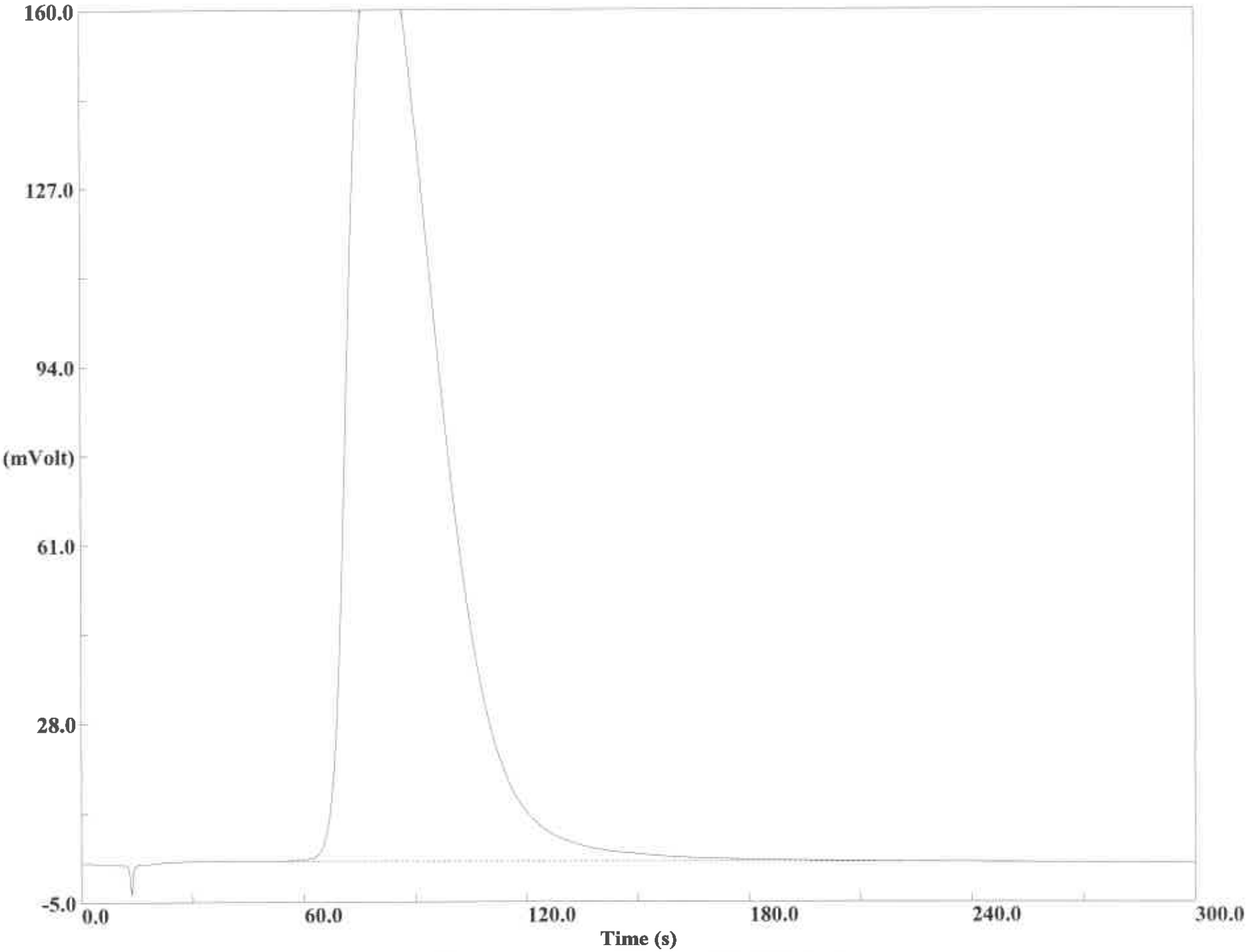
Filename C:\data\January\A100418049.DAT
Sample name :490-160269-a-5 Analysed :10/04/2018 19:18

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



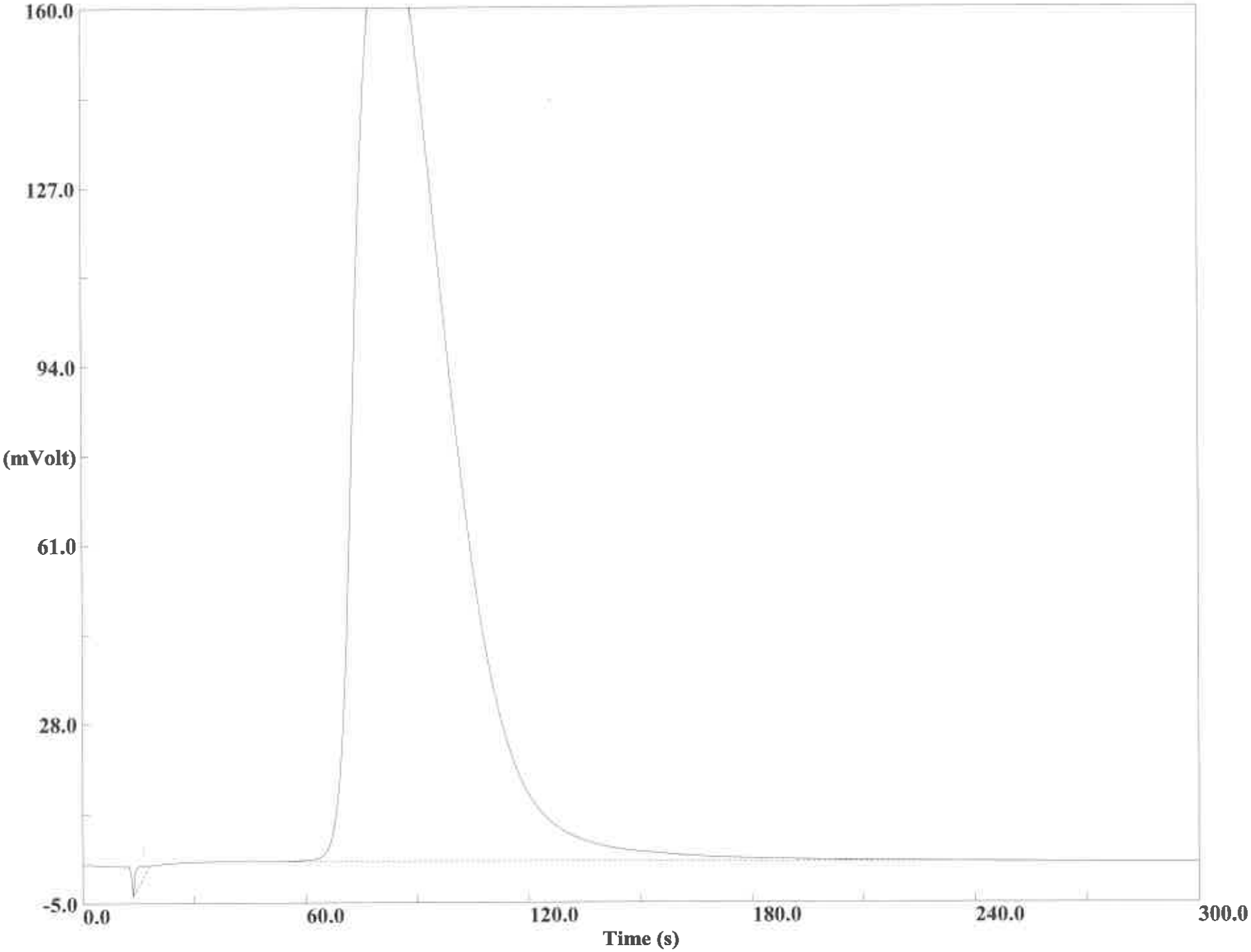
Filename C:\data\January\A100418050.DAT
Sample name :490-160269-a-5 Analysed :10/04/2018 19:23

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418051.DAT
Sample name :490-160269-a-6 Analysed :10/04/2018 19:28

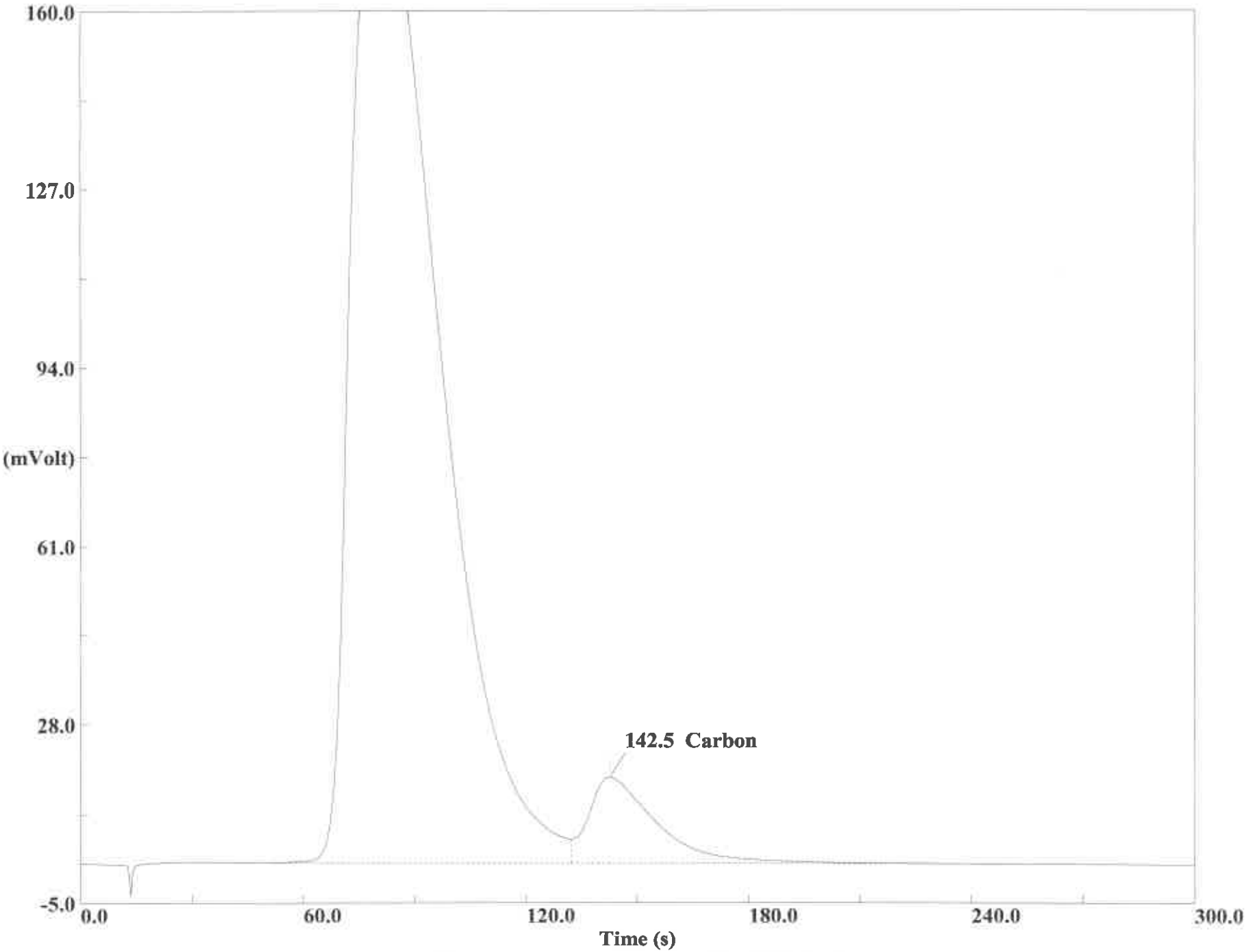
Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418052.DAT

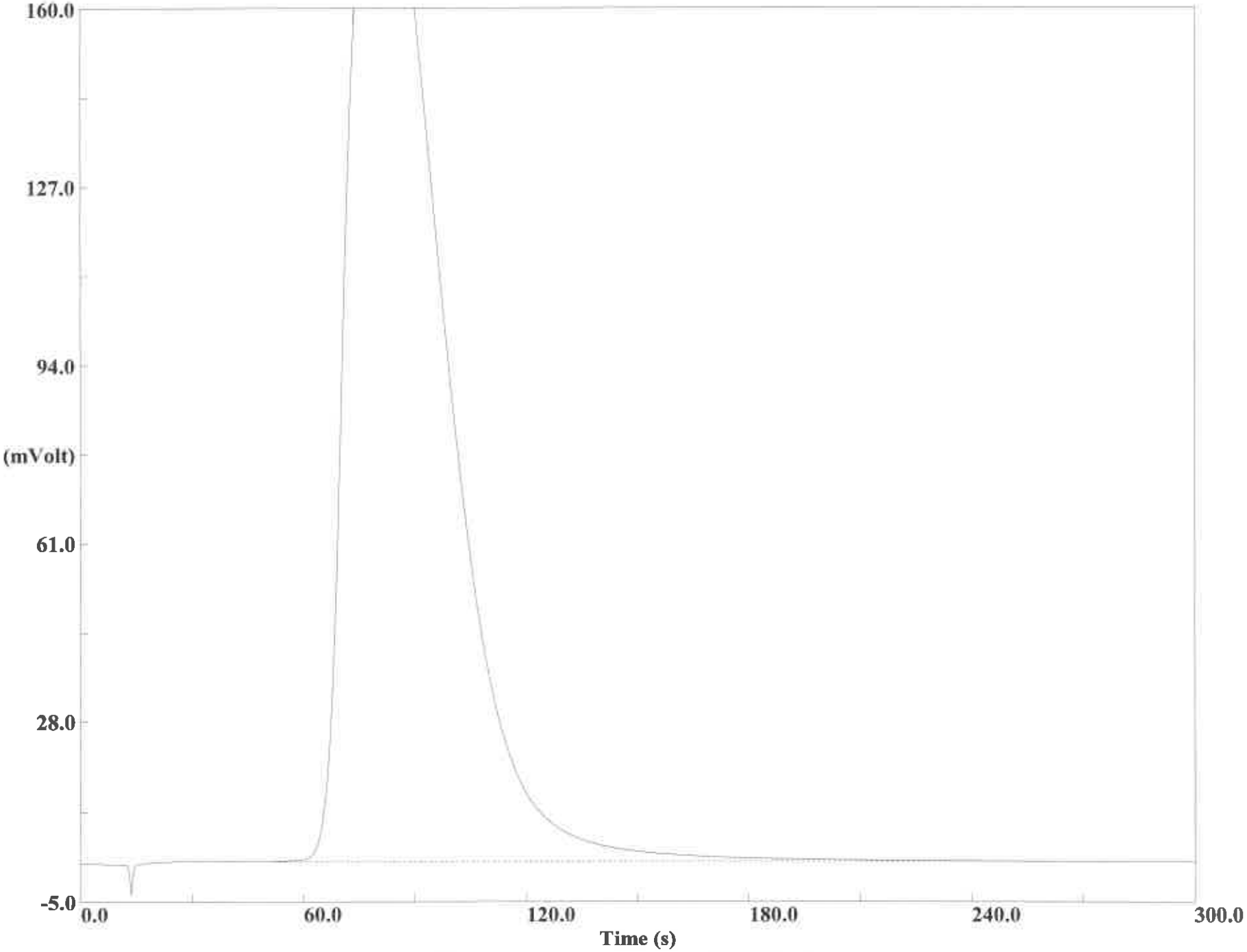
Sample name :490-160269-a-6 Analysed :10/04/2018 19:33

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418053.DAT
Sample name :ccv Analysed :10/04/2018 19:38

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418054.DAT
Sample name :ccb Analysed :10/04/2018 19:43

Eager Xperience

Method name : Lloyd Kahn
Method filename : C:\data\January\100418.mth

Sample table

Chromatogram overwrite : Enabled

#	Sample name	Filename	Type	Weight	Hum.%
1	BYPASS	A091118001	ByP	-	0
2	BLANK	A091118002	Blk	-	0
3	BLANK	A091118003	Blk	-	0
4	1,000 KHP CT#2854410	A091118004	Std	200	0
5	2,500 KHP CT#2854403	A091118005	Std	50	0
6	5,000 KHP CT#2854403	A091118006	Std	100	0
7	10,000 KHP CT#2854403	A091118007	Std	200	0
8	25,000 KHP CT#2854401	A091118008	Std	50	0
9	50,000 KHP CT#2854401	A091118009	Std	100	0
10	100,000 KHP CT#2854401	A091118010	Std	200	0
11	ICV 37,760 KHP CT#2809390	A091118011	Unk	10	0
12	CCV	A091118012	Unk	100	0
13	CCB	A091118013	Unk	20	0
14	ccv	A100418001	Unk	100	0
15	ccb	A100418002	Unk	20	0
16	mb	A100418003	Unk	21.8	0
17	mb	A100418004	Unk	20.9	0
18	lcs	A100418005	Unk	10.3	0
19	lcs	A100418006	Unk	10.5	0
20	180-82571-b-8	A100418007	Unk	20.6	0
21	180-82571-b-8	A100418008	Unk	20.9	0
22	180-82571-b-8 ms	A100418009	Unk	19.8	0
23	180-82571-b-8 ms	A100418010	Unk	20.2	0
24	180-82571-b-8 msd	A100418011	Unk	20.5	0
25	180-82571-b-8 msd	A100418012	Unk	20.7	0
26	180-82571-b-8 du	A100418013	Unk	20.9	0
27	180-82571-b-8 du	A100418014	Unk	20.4	0
28	180-82446-b-3	A100418015	Unk	20.6	0
29	180-82446-b-3	A100418016	Unk	20	0
30	180-82446-b-1	A100418017	Unk	20.3	0
31	180-82446-b-1	A100418018	Unk	20	0
32	180-82571-b-1	A100418019	Unk	21	0
33	180-82571-b-1	A100418020	Unk	20.6	0
34	180-82571-b-2	A100418021	Unk	20.5	0
35	180-82571-b-2	A100418022	Unk	21.1	0
36	ccv	A100418023	Unk	100	0
37	ccb	A100418024	Unk	20	0

#	Sample name	Filename	Type	Weight	Hum.%
38	180-82571-b-3	A100418025	Unk	20	0
39	180-82571-b-3	A100418026	Unk	22	0
40	180-82571-b-4	A100418027	Unk	21.3	0
41	180-82571-b-4	A100418028	Unk	20.2	0
42	180-82571-b-5	A100418029	Unk	21.9	0
43	180-82571-b-5	A100418030	Unk	20.8	0
44	180-82571-b-6	A100418031	Unk	20.8	0
45	180-82571-b-6	A100418032	Unk	20.3	0
46	180-82571-b-7	A100418033	Unk	20.4	0
47	180-82571-b-7	A100418034	Unk	20.8	0
48	180-82571-b-9	A100418035	Unk	20.9	0
49	180-82571-b-9	A100418036	Unk	21.1	0
50	180-82571-b-10	A100418037	Unk	21.1	0
51	180-82571-b-10	A100418038	Unk	22.4	0
52	490-160269-a-1	A100418039	Unk	20	0
53	490-160269-a-1	A100418040	Unk	22.8	0
54	490-160269-c-2	A100418041	Unk	21.7	0
55	490-160269-c-2	A100418042	Unk	22	0
56	490-160269-a-3	A100418043	Unk	21.8	0
57	490-160269-a-3	A100418044	Unk	21.2	0
58	ccv	A100418045	Unk	100	0
59	ccb	A100418046	Unk	20	0
60	490-160269-c-4	A100418047	Unk	21.9	0
61	490-160269-c-4	A100418048	Unk	23	0
62	490-160269-a-5	A100418049	Unk	20	0
63	490-160269-a-5	A100418050	Unk	21.9	0
64	490-160269-a-6	A100418051	Unk	20.7	0
65	490-160269-a-6	A100418052	Unk	20.1	0
66	ccv	A100418053	Unk	100	0
67	ccb	A100418054	Unk	20	0

Llyod Kahn %RPD Replicate Calculation Spreadsheet

Units: mg/kg

Batch#	Sample Workorder#	Results	Average	RPD
258943	lcs	2.97698998		
258943	lcs	3.12249613	3.050	4.77
258943	180-82571-b-8	0.67498702		
258943	180-82571-b-8	0.82862478	0.752	20.44
258943	180-82571-b-8 ms	2.3157389		
258943	180-82571-b-8 ms	2.6356759	2.476	12.92
258943	180-82571-b-8 msd	2.7751069		
258943	180-82571-b-8 msd	2.5773306	2.676	7.39
258943	180-82571-b-8 du	1.0110854		
258943	180-82571-b-8 du	0.9740254	0.993	3.73
258943	180-82446-b-3	0.4380024		
258943	180-82446-b-3	0.2883357	0.363	41.21
258943	180-82446-b-1	0.1873620		
258943	180-82446-b-1	0.1752266	0.181	6.69
258943	180-82571-b-1	1.0070132		
258943	180-82571-b-1	1.5174309	1.262	40.44
258943	180-82571-b-2	0.7324314		
258943	180-82571-b-2	0.9953543	0.864	30.43
258943	180-82571-b-3	0.6754090		
258943	180-82571-b-3	1.0716468	0.874	45.36
258943	180-82571-b-4	0.8354938		
258943	180-82571-b-4	0.7436283	0.790	11.64
258943	180-82571-b-5	1.0001981		
258943	180-82571-b-5	0.9811168	0.991	1.93
258943	180-82571-b-6	0.7830122		
258943	180-82571-b-6	0.8306167	0.807	5.90
258943	180-82571-b-7	1.0896089		
258943	180-82571-b-7	0.6612822	0.875	48.93
258943	180-82571-b-9	0.2905373		
258943	180-82571-b-9	0.1992804	0.245	37.26
258943	180-82571-b-10	0.1300931		
258943	180-82571-b-10	0.1198784	0.125	8.17
258943	490-160269-a-1	0.0000000		
258943	490-160269-a-1	0.0000000	0.000	#DIV/0!
258943	490-160269-c-2	0.0000000		
258943	490-160269-c-2	0.0000000	0.000	#DIV/0!
258943	490-160269-a-3	0.0000000		
258943	490-160269-a-3	0.0000000	0.000	#DIV/0!
258943	490-160269-c-4	0.0000000		
258943	490-160269-c-4	0.0000000	0.000	#DIV/0!
258943	490-160269-a-5	0.0000000		
258943	490-160269-a-5	0.0000000	0.000	#DIV/0!
258943	490-160269-a-6	0.0000000		
258943	490-160269-a-6	0.0000000	0.000	#DIV/0!

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Pittsburgh Lab Lloyd Kahn SRM Prep Log

Analyst: Josh Fritsch **Date:** 10/5/18

Job No.	Sample ID	Weight (mg)	Average Weights
82446	LCS	10.3	
82571	LCS	10.5	10.4
490-160269	82571-8 MS	11.5	
	82571-8 MS	11.7	11.6
	82571-8 MSD	10.7	
	82571-8 MSD	10.4	10.55

JBF
10/5/18

N:\SOPs\Forms\Lloyd Kahn Sample Prep form_Rev.1.doc
Rev. 1, 06/13/11

Eager Xperience

Method name : Lloyd Kahn
Method filename : C:\data\January\100418x.mth

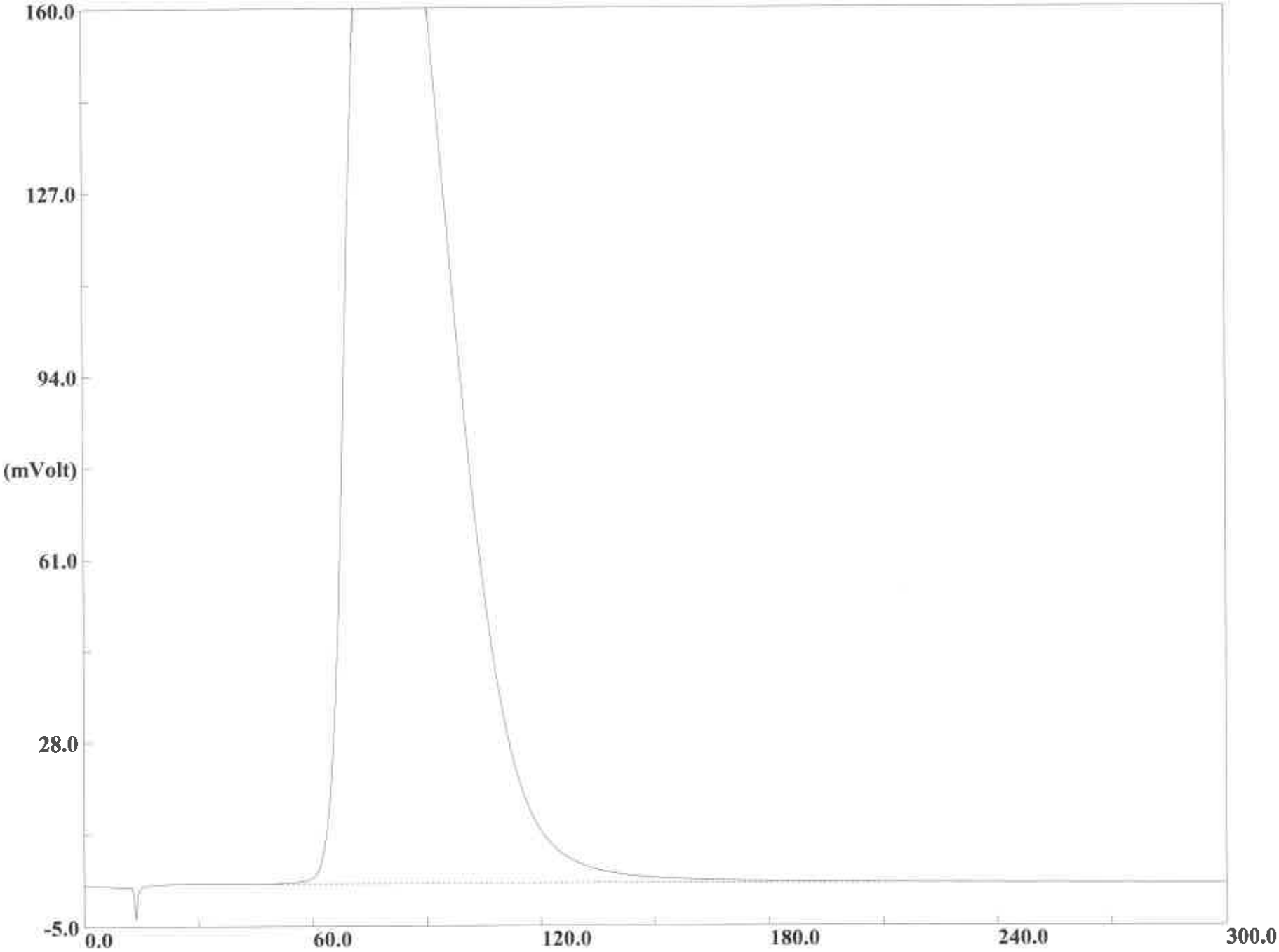
Sample table

Chromatogram overwrite : Enabled

#	Sample name	Filename	Type	Weight	Hum.%
1	BYPASS	A091118001	ByP	-	0
2	BLANK	A091118002	Blk	-	0
3	BLANK	A091118003	Blk	-	0
4	1,000 KHP CT#2854410	A091118004	Std	200	0
5	2,500 KHP CT#2854403	A091118005	Std	50	0
6	5,000 KHP CT#2854403	A091118006	Std	100	0
7	10,000 KHP CT#2854403	A091118007	Std	200	0
8	25,000 KHP CT#2854401	A091118008	Std	50	0
9	50,000 KHP CT#2854401	A091118009	Std	100	0
10	100,000 KHP CT#2854401	A091118010	Std	200	0
11	ICV 37,760 KHP CT#2809390	A091118011	Unk	10	0
12	CCV	A091118012	Unk	100	0
13	CCB	A091118013	Unk	20	0
14	ccv	A100418001	Unk	100	0
15	ccb	A100418002	Unk	20	0
16	mb	A100418003	Unk	21.35	0
17	mb	A100418004	Unk	21.35	0
18	lcs	A100418005	Unk	10.4	0
19	lcs	A100418006	Unk	10.4	0
20	180-82571-b-8	A100418007	Unk	20.75	0
21	180-82571-b-8	A100418008	Unk	20.75	0
22	180-82571-b-8 ms	A100418009	Unk	20	0
23	180-82571-b-8 ms	A100418010	Unk	20	0
24	180-82571-b-8 msd	A100418011	Unk	20.6	0
25	180-82571-b-8 msd	A100418012	Unk	20.6	0
26	180-82571-b-8 du	A100418013	Unk	20.65	0
27	180-82571-b-8 du	A100418014	Unk	20.65	0
28	180-82446-b-3	A100418015	Unk	20.6	0
29	180-82446-b-3	A100418016	Unk	20	0
30	180-82446-b-1	A100418017	Unk	20.3	0
31	180-82446-b-1	A100418018	Unk	20	0
32	180-82571-b-1	A100418019	Unk	21	0
33	180-82571-b-1	A100418020	Unk	20.6	0
34	180-82571-b-2	A100418021	Unk	20.5	0
35	180-82571-b-2	A100418022	Unk	21.1	0
36	ccv	A100418023	Unk	100	0
37	ccb	A100418024	Unk	20	0

#	Sample name	Filename	Type	Weight	Hum.%
38	180-82571-b-3	A100418025	Unk	20	0
39	180-82571-b-3	A100418026	Unk	22	0
40	180-82571-b-4	A100418027	Unk	21.3	0
41	180-82571-b-4	A100418028	Unk	20.2	0
42	180-82571-b-5	A100418029	Unk	21.9	0
43	180-82571-b-5	A100418030	Unk	20.8	0
44	180-82571-b-6	A100418031	Unk	20.8	0
45	180-82571-b-6	A100418032	Unk	20.3	0
46	180-82571-b-7	A100418033	Unk	20.4	0
47	180-82571-b-7	A100418034	Unk	20.8	0
48	180-82571-b-9	A100418035	Unk	20.9	0
49	180-82571-b-9	A100418036	Unk	21.1	0
50	180-82571-b-10	A100418037	Unk	21.1	0
51	180-82571-b-10	A100418038	Unk	22.4	0
52	490-160269-a-1	A100418039	Unk	20	0
53	490-160269-a-1	A100418040	Unk	22.8	0
54	490-160269-c-2	A100418041	Unk	21.7	0
55	490-160269-c-2	A100418042	Unk	22	0
56	490-160269-a-3	A100418043	Unk	21.8	0
57	490-160269-a-3	A100418044	Unk	21.2	0
58	ccv	A100418045	Unk	100	0
59	ccb	A100418046	Unk	20	0
60	490-160269-c-4	A100418047	Unk	21.9	0
61	490-160269-c-4	A100418048	Unk	23	0
62	490-160269-a-5	A100418049	Unk	20	0
63	490-160269-a-5	A100418050	Unk	21.9	0
64	490-160269-a-6	A100418051	Unk	20.7	0
65	490-160269-a-6	A100418052	Unk	20.1	0
66	ccv	A100418053	Unk	100	0
67	ccb	A100418054	Unk	20	0

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418003.DAT
Sample name :mb Analysed :10/04/2018 15:14

Eager 300 Report

Page: 1 Sample: mb (A100418003)

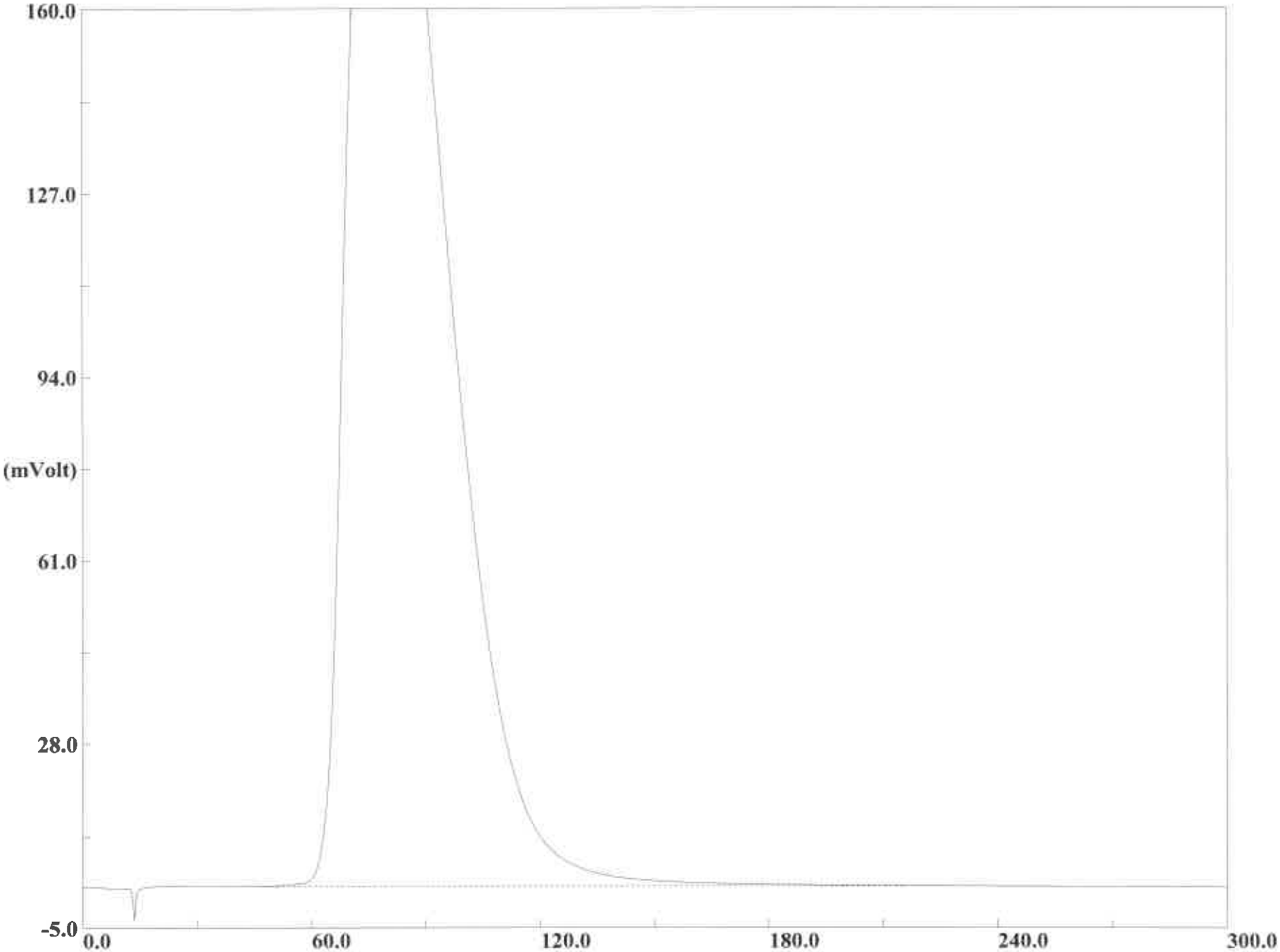
Method Name : Lloyd Kahn
Method File : C:\data\January\100418x.mth
Chromatogram : A100418003
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 15:14 Printed : 10/5/2018 09:22
Sample ID : mb (# 16)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 21.35

Calib. method : using 'Least Squares to Linear fit'

!!! Warning missing one or more peaks.

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418004.DAT
Sample name :mb Analysed :10/04/2018 15:20

Eager 300 Report

Page: 1 Sample: mb (A100418004)

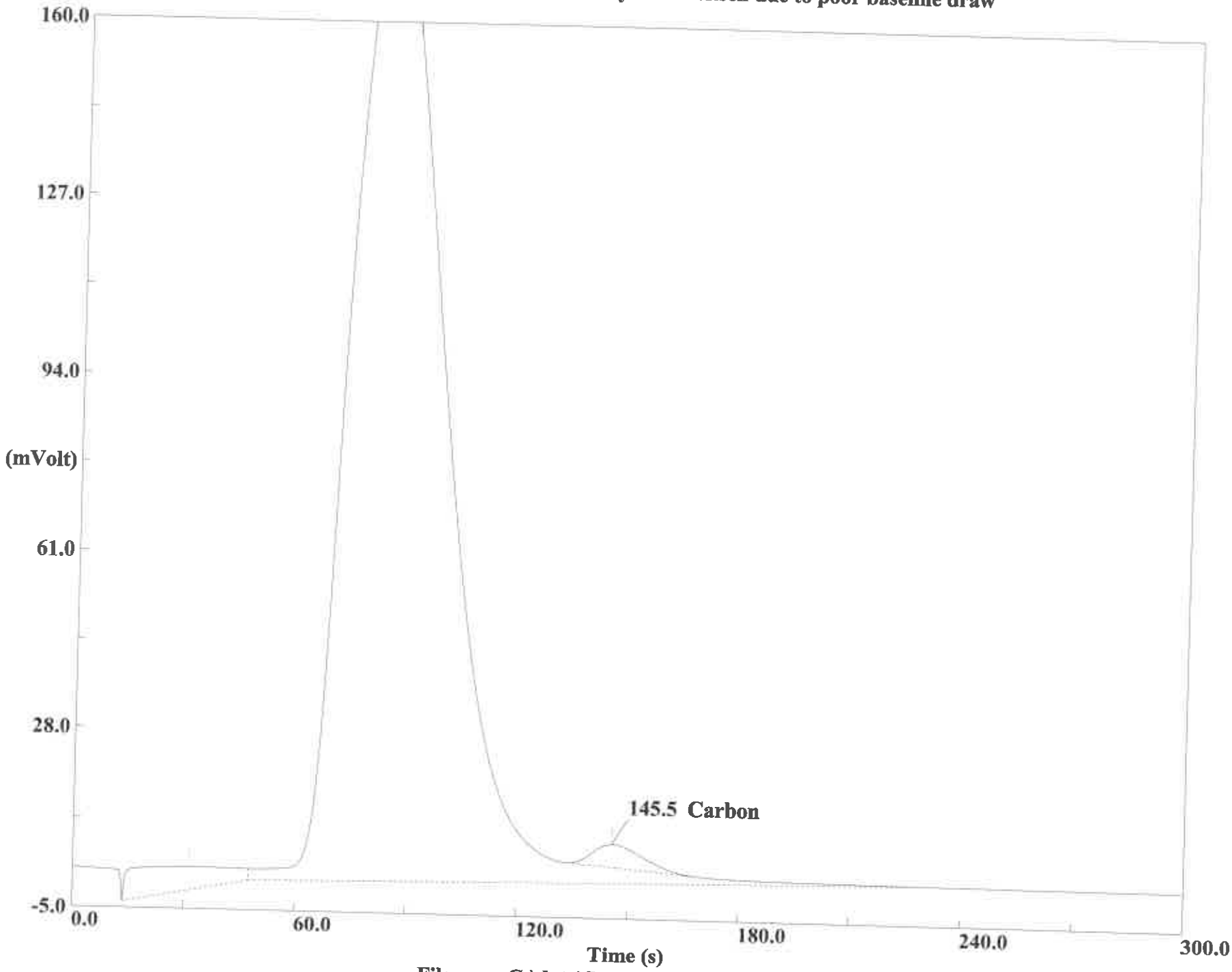
Method Name : Lloyd Kahn
Method File : C:\data\January\100418x.mth
Chromatogram : A100418004
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 15:20 Printed : 10/5/2018 09:23
Sample ID : mb (# 17)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 21.35

Calib. method : using 'Least Squares to Linear fit'

!!! Warning missing one or more peaks.

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418005.DAT
Sample name :lcs Analysed :10/04/2018 15:25

Eager 300 Report

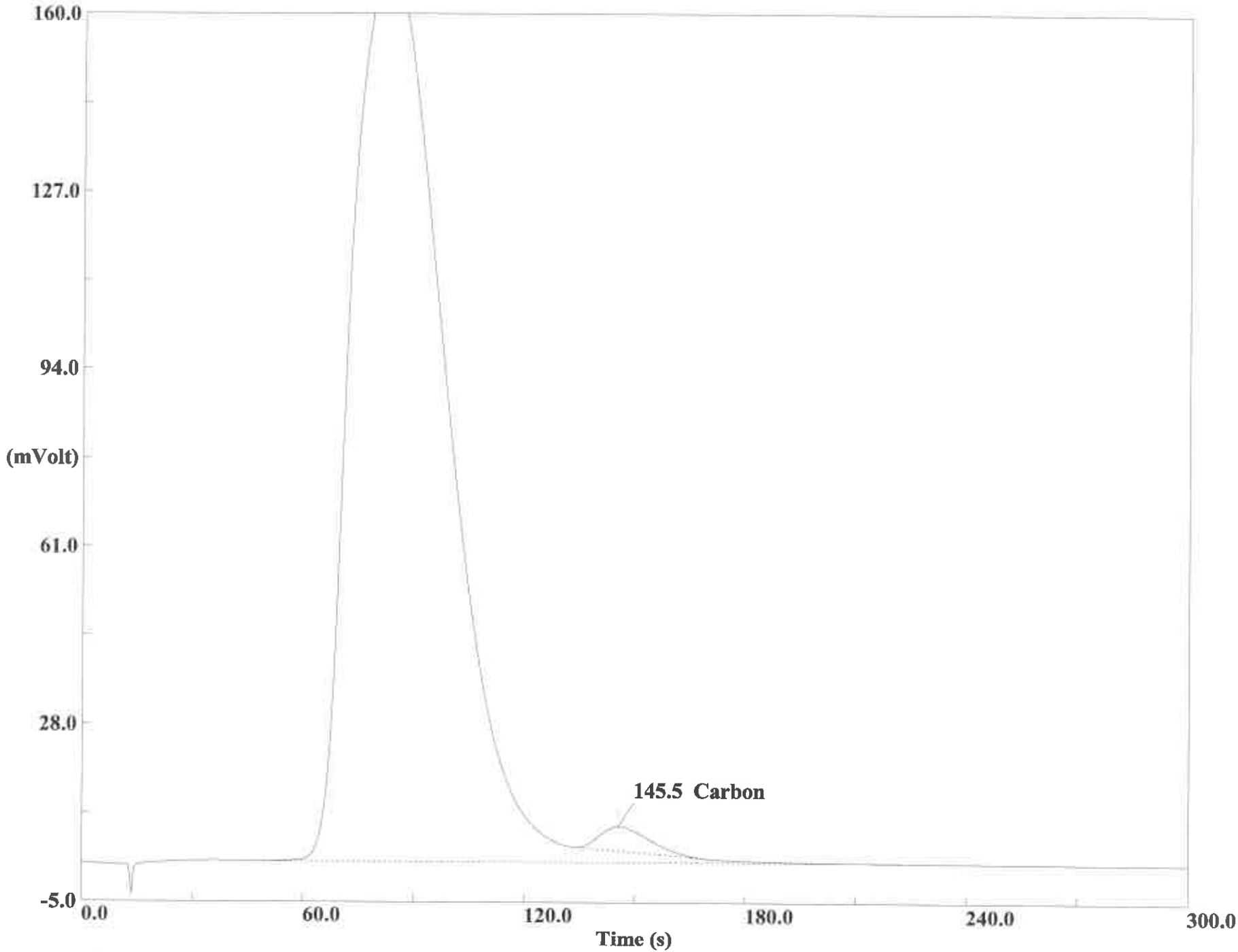
Page: 1 Sample: lcs (A100418005)

Method Name : Lloyd Kahn
Method File : C:\data\January\100418x.mth
Chromatogram : A100418005
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 15:25 Printed : 10/5/2018 08:38
Sample ID : lcs (# 18)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 10.4

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	2.9770	146	660322	CR	1.000000	

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418006.DAT
Sample name :lcs Analysed :10/04/2018 15:38

Eager 300 Report

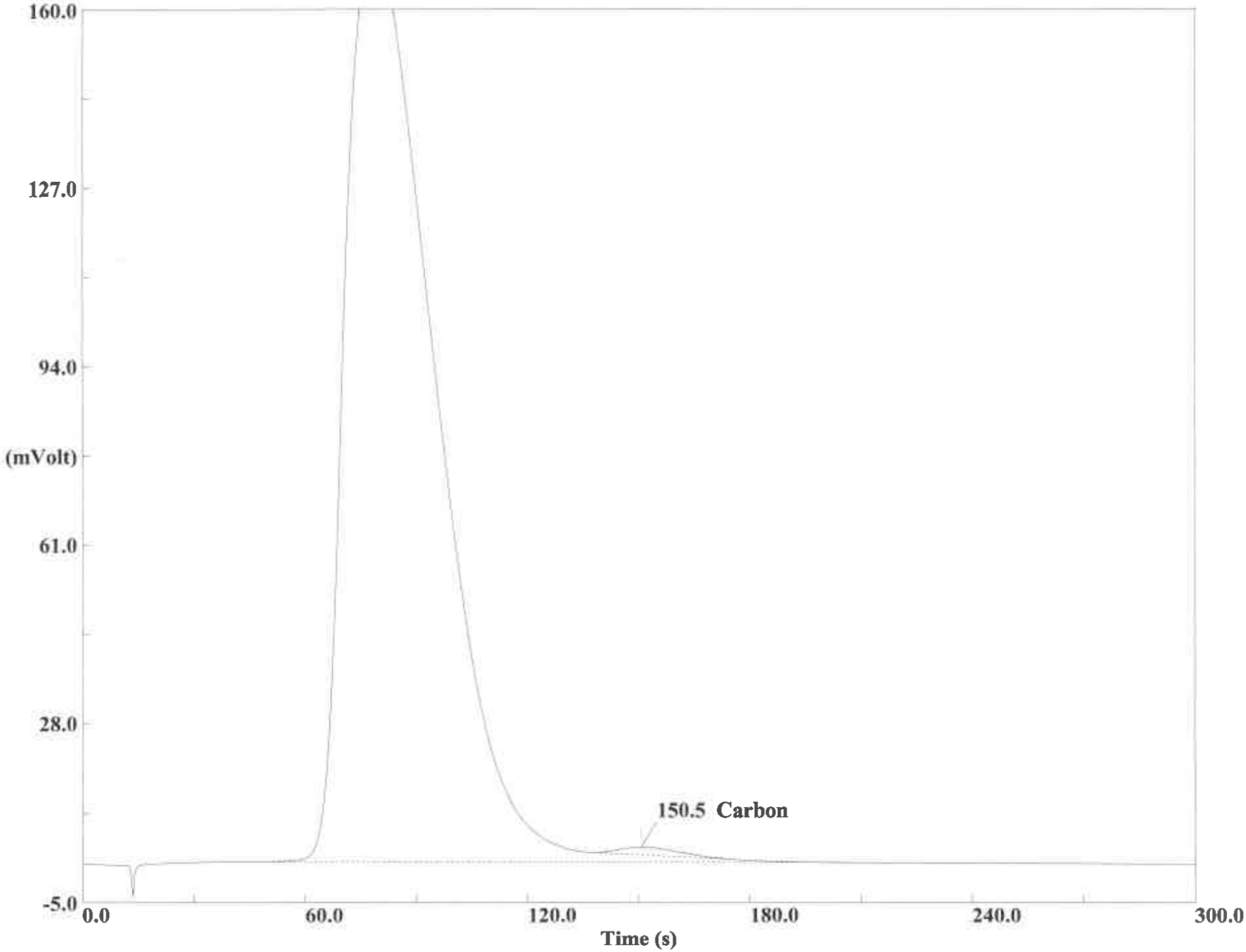
Page: 1 Sample: lcs (A100418006)

Method Name : Lloyd Kahn
Method File : C:\data\January\100418x.mth
Chromatogram : A100418006
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 15:38 Printed : 10/5/2018 08:38
Sample ID : lcs (# 19)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 10.4

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	3.1225	146	695638	CR	1.000000	

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418007.DAT
Sample name :180-82571-b-8 Analysed :10/04/2018 15:45

Eager 300 Report

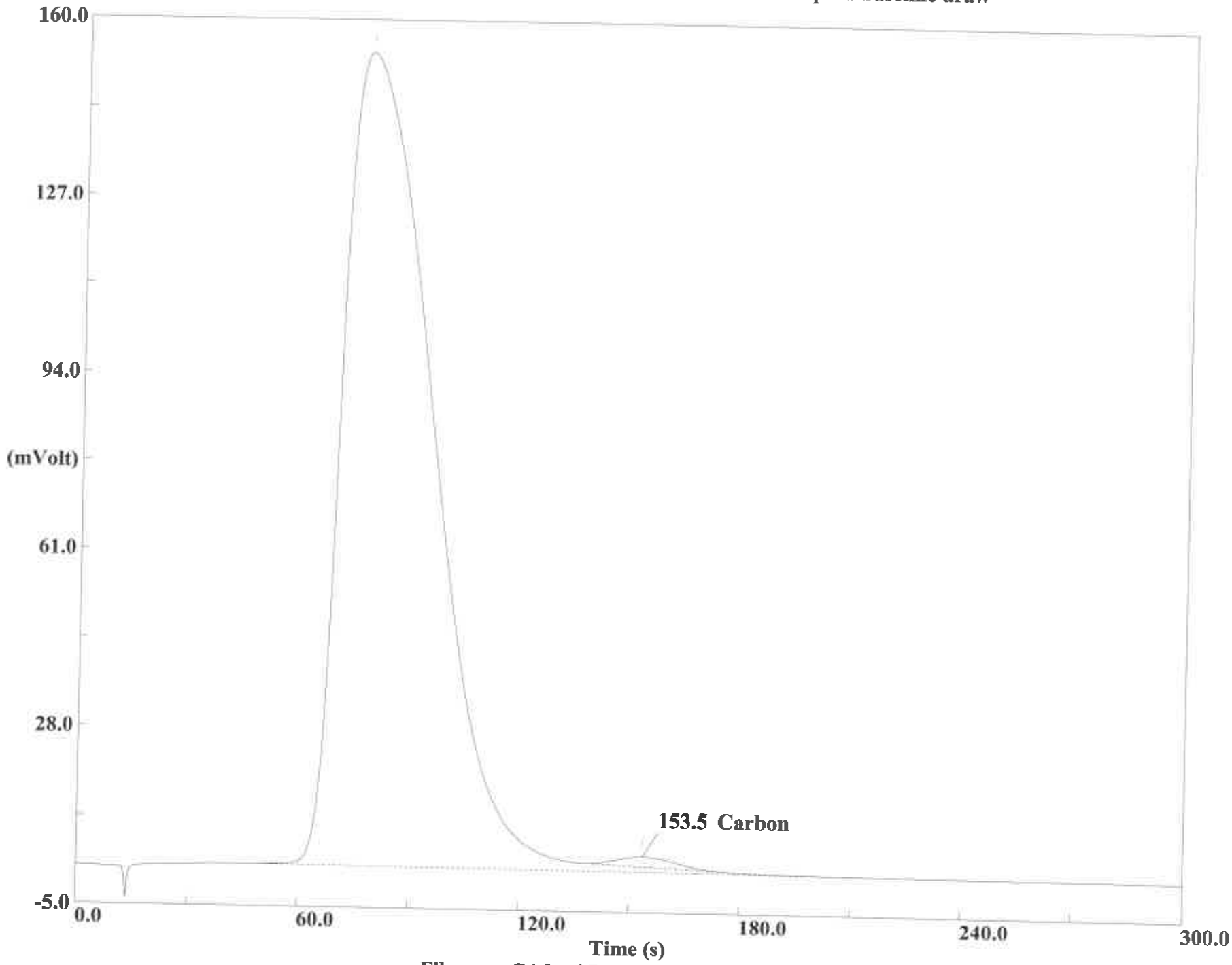
Page: 1 Sample: 180-82571-b-8 (A100418007)

Method Name : Lloyd Kahn
Method File : C:\data\January\100418x.mth
Chromatogram : A100418007
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 15:45 Printed : 10/5/2018 08:38
Sample ID : 180-82571-b-8 (# 20)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20.75

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.6750	151	264639	CR	1.000000	

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418008.DAT
Sample name :180-82571-b-8 Analysed :10/04/2018 15:50

Eager 300 Report

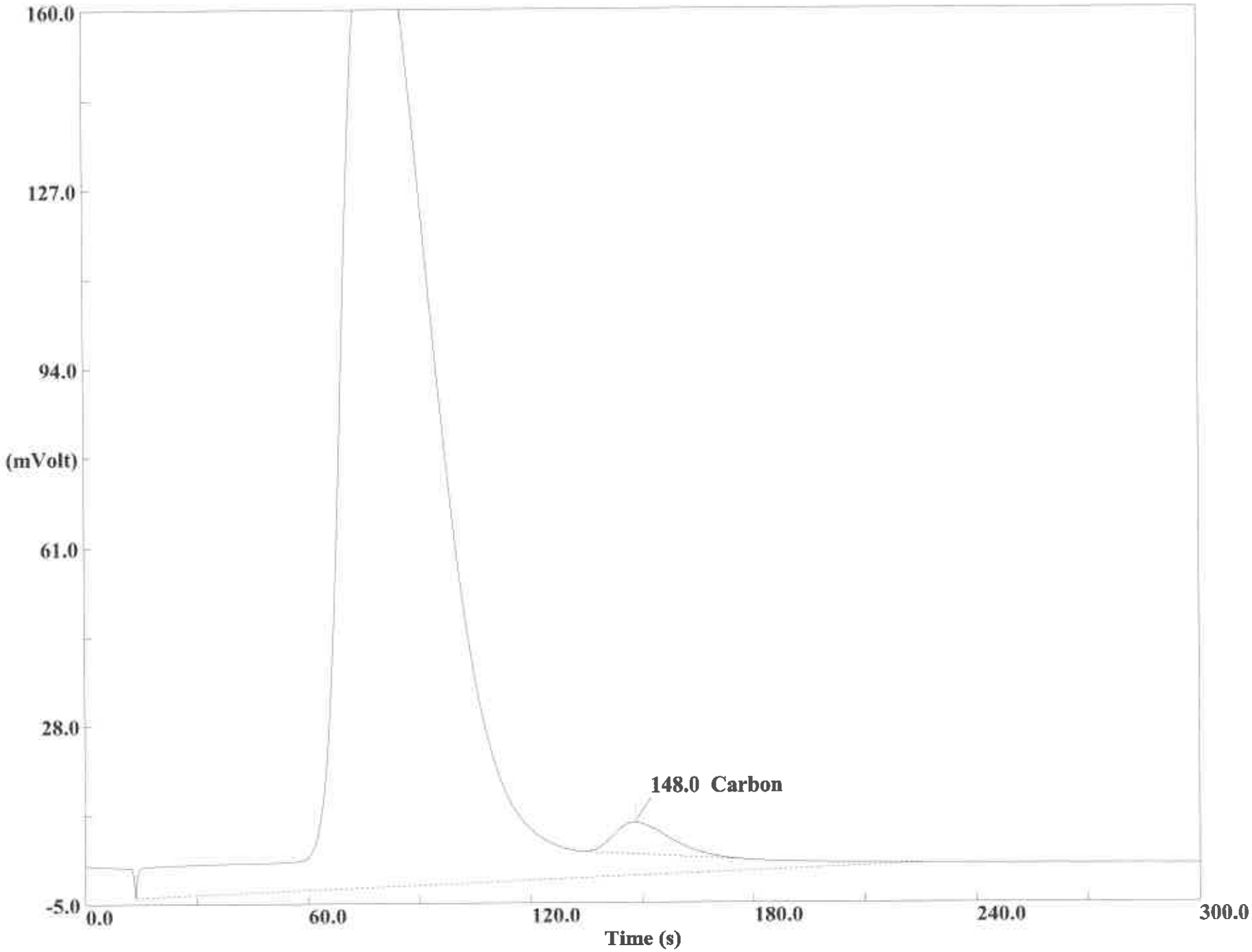
Page: 1 Sample: 180-82571-b-8 (A100418008)

Method Name : Lloyd Kahn
Method File : C:\data\January\100418x.mth
Chromatogram : A100418008
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 15:50 Printed : 10/5/2018 08:38
Sample ID : 180-82571-b-8 (# 21)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20.75

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.8286	154	339039	CR	1.000000	

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418009.DAT
Sample name :180-82571-b-8 ms Analysed :10/04/2018 15:55

Eager 300 Report

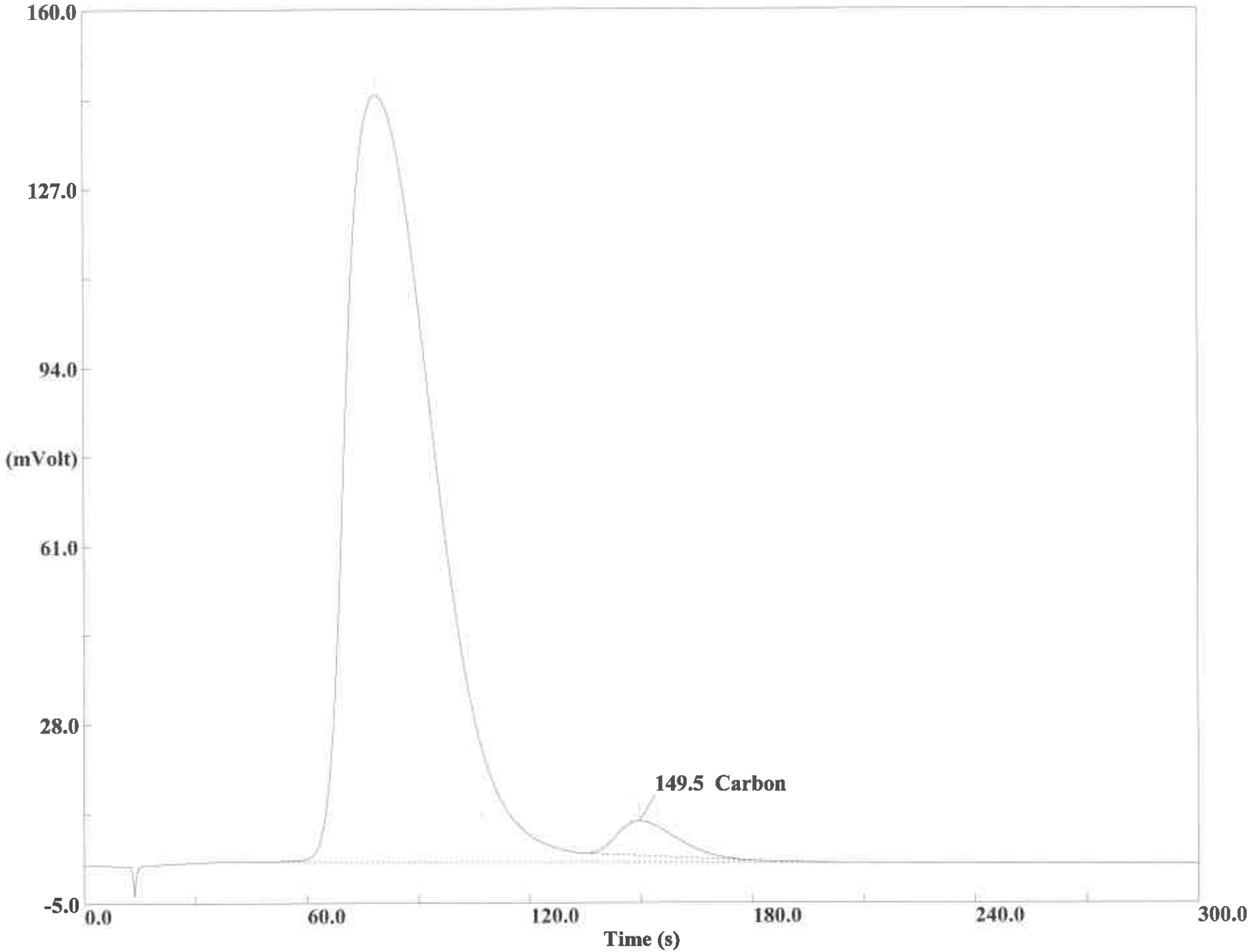
Page: 1 Sample: 180-82571-b-8 ms (A100418009)

Method Name : Lloyd Kahn
Method File : C:\data\January\100418x.mth
Chromatogram : A100418009
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 15:55 Printed : 10/5/2018 08:38
Sample ID : 180-82571-b-8 ms (# 22)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	2.3157	148	1018650	CR	1.000000	

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418010.DAT
Sample name :180-82571-b-8 ms Analysed :10/04/2018 16:00

Eager 300 Report

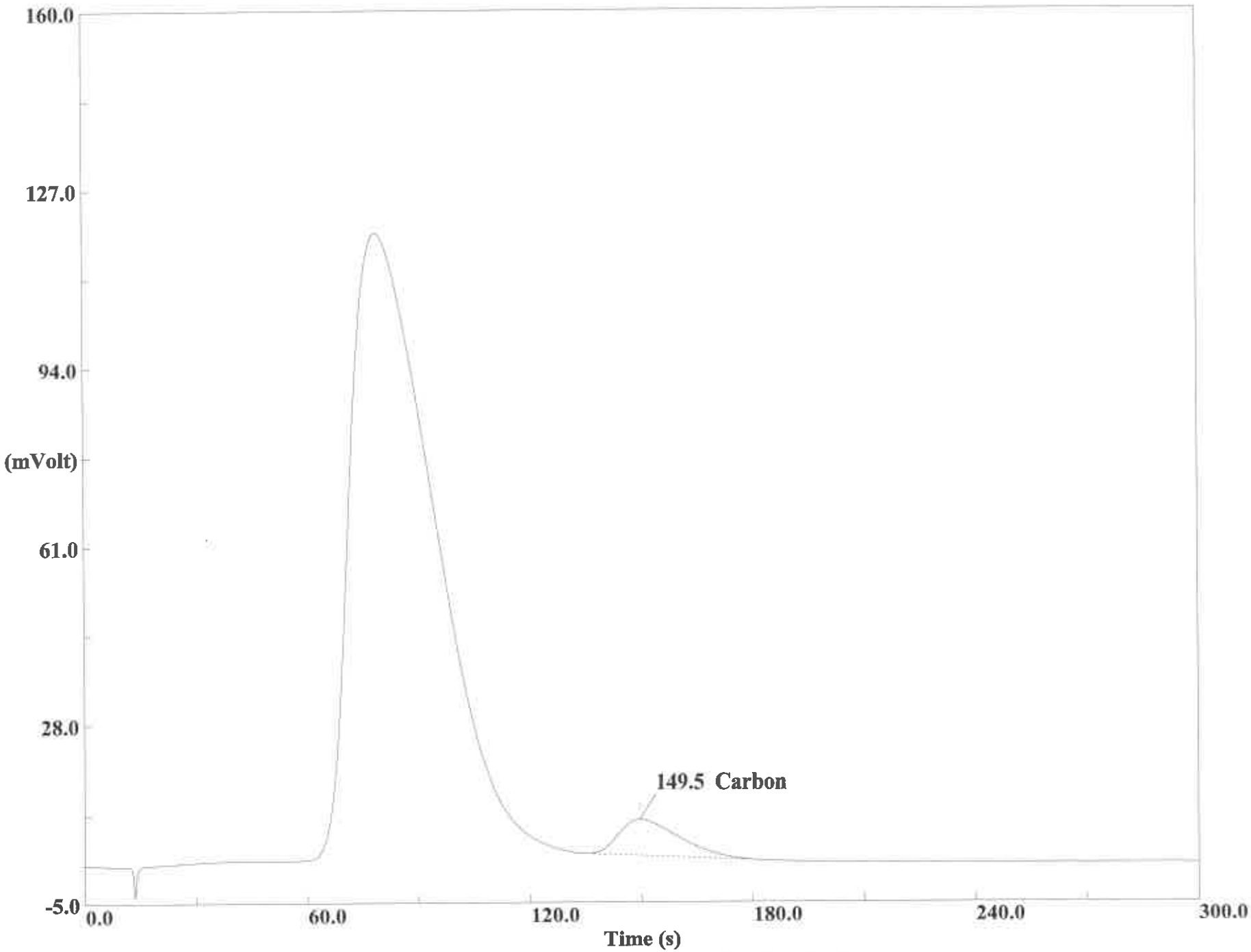
Page: 1 Sample: 180-82571-b-8 ms (A100418010)

Method Name : Lloyd Kahn
Method File : C:\data\January\100418x.mth
Chromatogram : A100418010
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 16:00 Printed : 10/5/2018 08:38
Sample ID : 180-82571-b-8 ms (# 23)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	2.6357	150	1167982	CR	1.000000	

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418011.DAT
Sample name :180-82571-b-8 msd Analysed :10/04/2018 16:05

Eager 300 Report

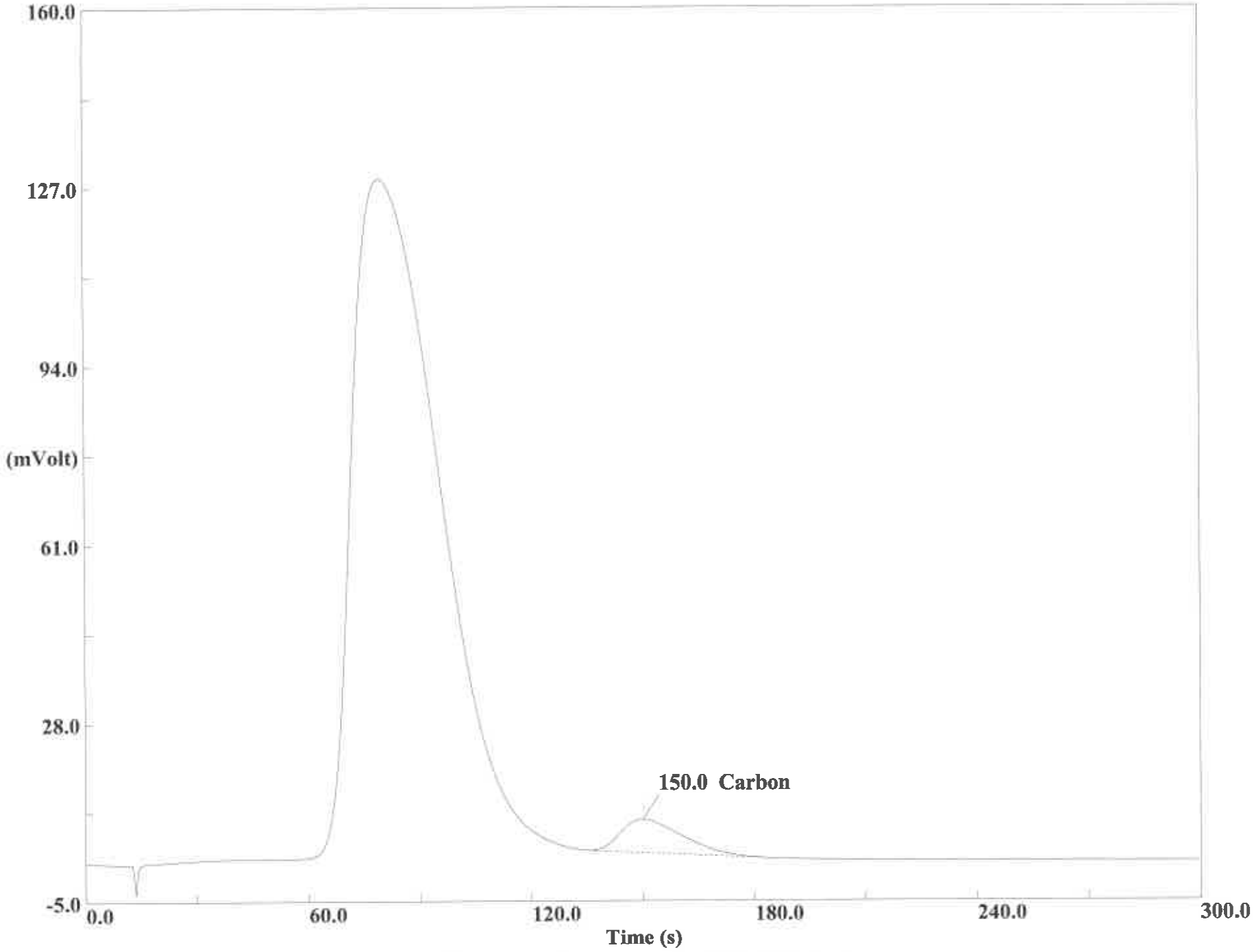
Page: 1 Sample: 180-82571-b-8 msd (A100418011)

Method Name : Lloyd Kahn
Method File : C:\data\January\100418x.mth
Chromatogram : A100418011
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 16:05 Printed : 10/5/2018 08:38
Sample ID : 180-82571-b-8 msd (# 24)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20.6

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	2.7751	150	1271920	mi	1.000000	

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418012.DAT
Sample name :180-82571-b-8 msd Analysed :10/04/2018 16:10

Eager 300 Report

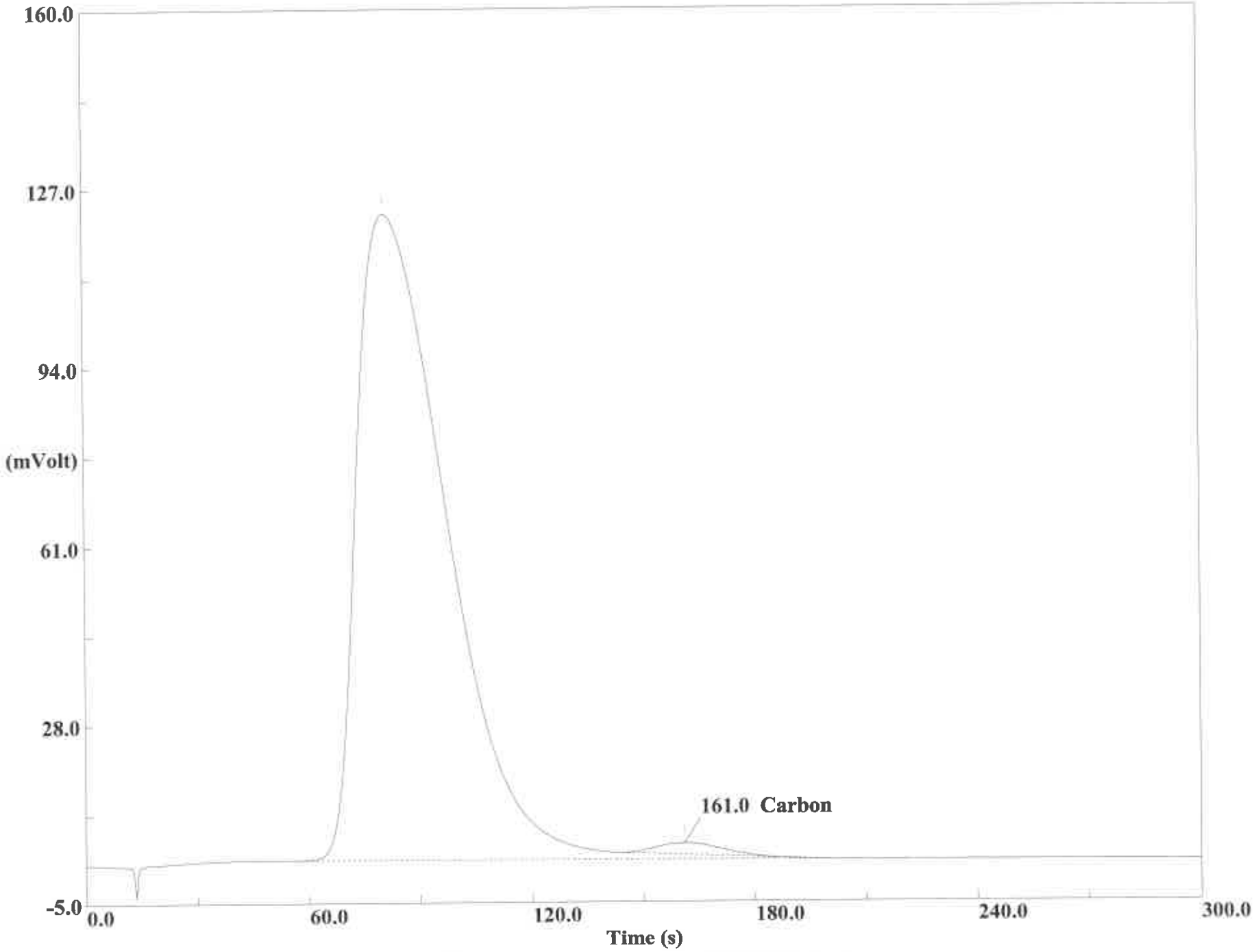
Page: 1 Sample: 180-82571-b-8 msd (A100418012)

Method Name : Lloyd Kahn
Method File : C:\data\January\100418x.mth
Chromatogram : A100418012
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 16:10 Printed : 10/5/2018 08:38
Sample ID : 180-82571-b-8 msd (# 25)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20.6

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	2.5773	150	1176838	mi	1.000000	

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418013.DAT
Sample name :180-82571-b-8 du Analysed :10/04/2018 16:15

Eager 300 Report

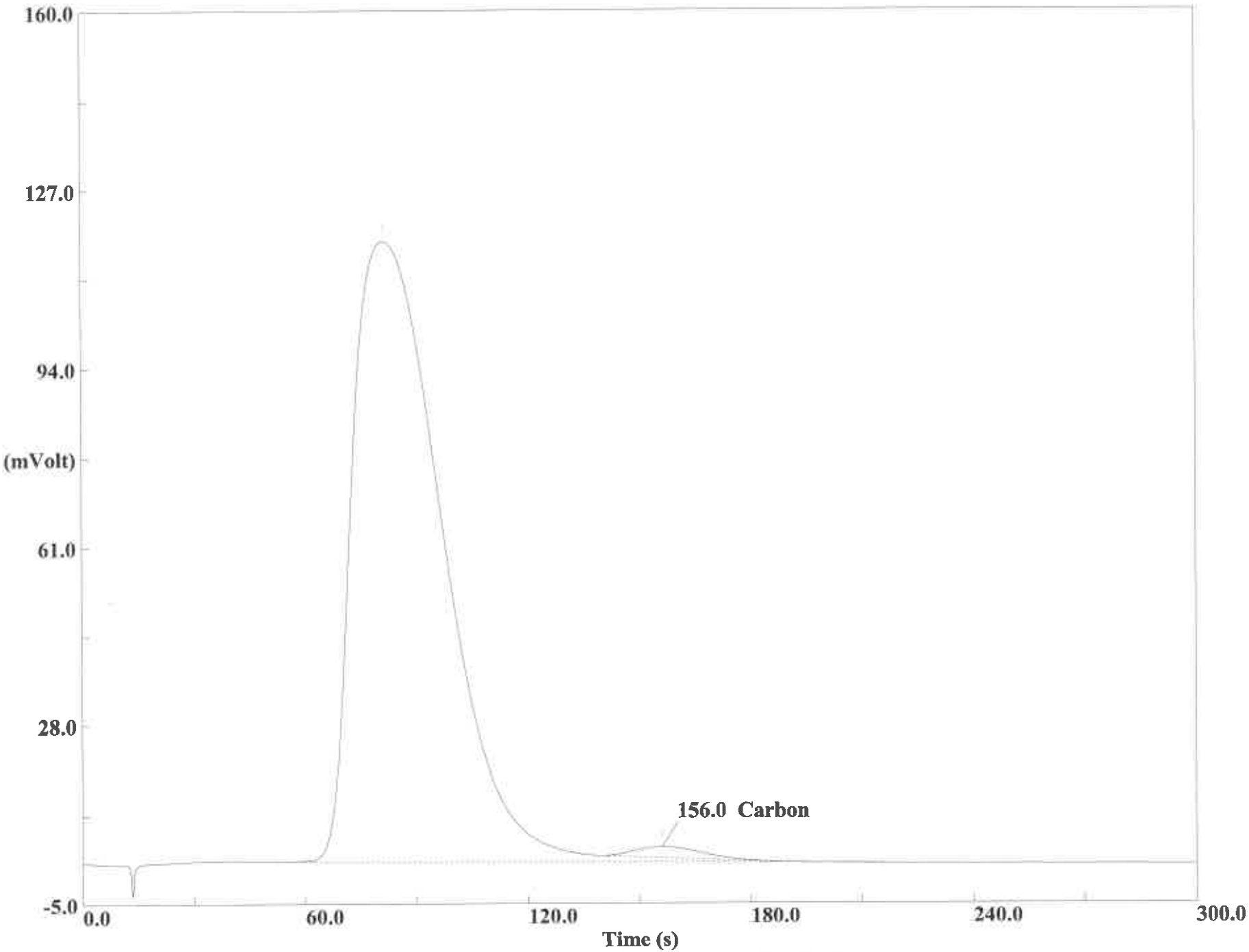
Page: 1 Sample: 180-82571-b-8 du (A100418013)

Method Name : Lloyd Kahn
Method File : C:\data\January\100418x.mth
Chromatogram : A100418013
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 16:15 Printed : 10/5/2018 08:38
Sample ID : 180-82571-b-8 du (# 26)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20.65

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	1.0111	161	425037	CR	1.000000	

Manual Integration on 10/05/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A100418014.DAT
Sample name :180-82571-b-8 du Analysed :10/04/2018 16:21

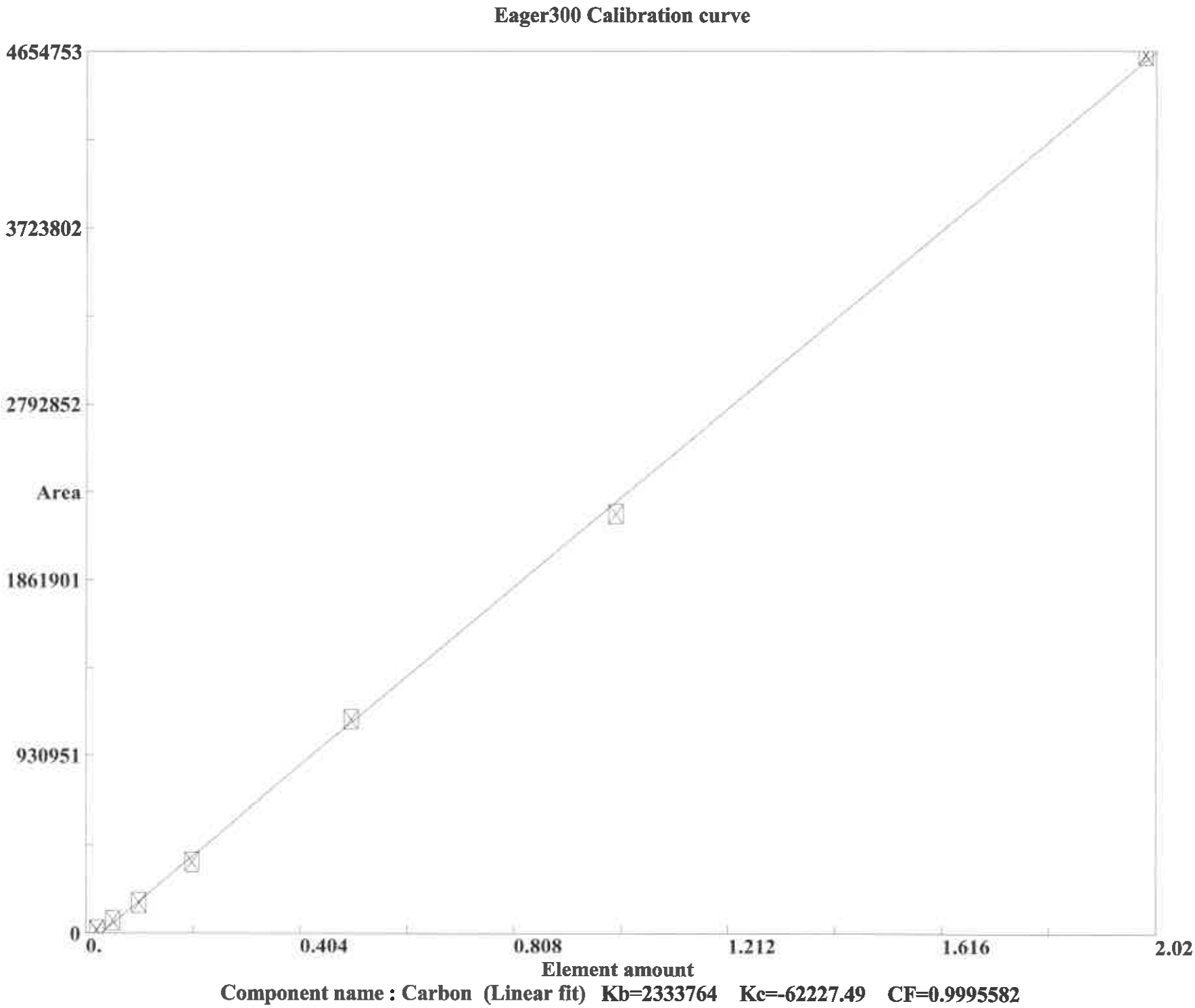
Eager 300 Report

Page: 1 Sample: 180-82571-b-8 du (A100418014)

Method Name : Lloyd Kahn
Method File : C:\data\January\100418x.mth
Chromatogram : A100418014
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 10/04/2018 16:21 Printed : 10/5/2018 08:38
Sample ID : 180-82571-b-8 du (# 27)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20.65

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.9740	156	407177	CR	1.000000	


Eager300 Calibration curve
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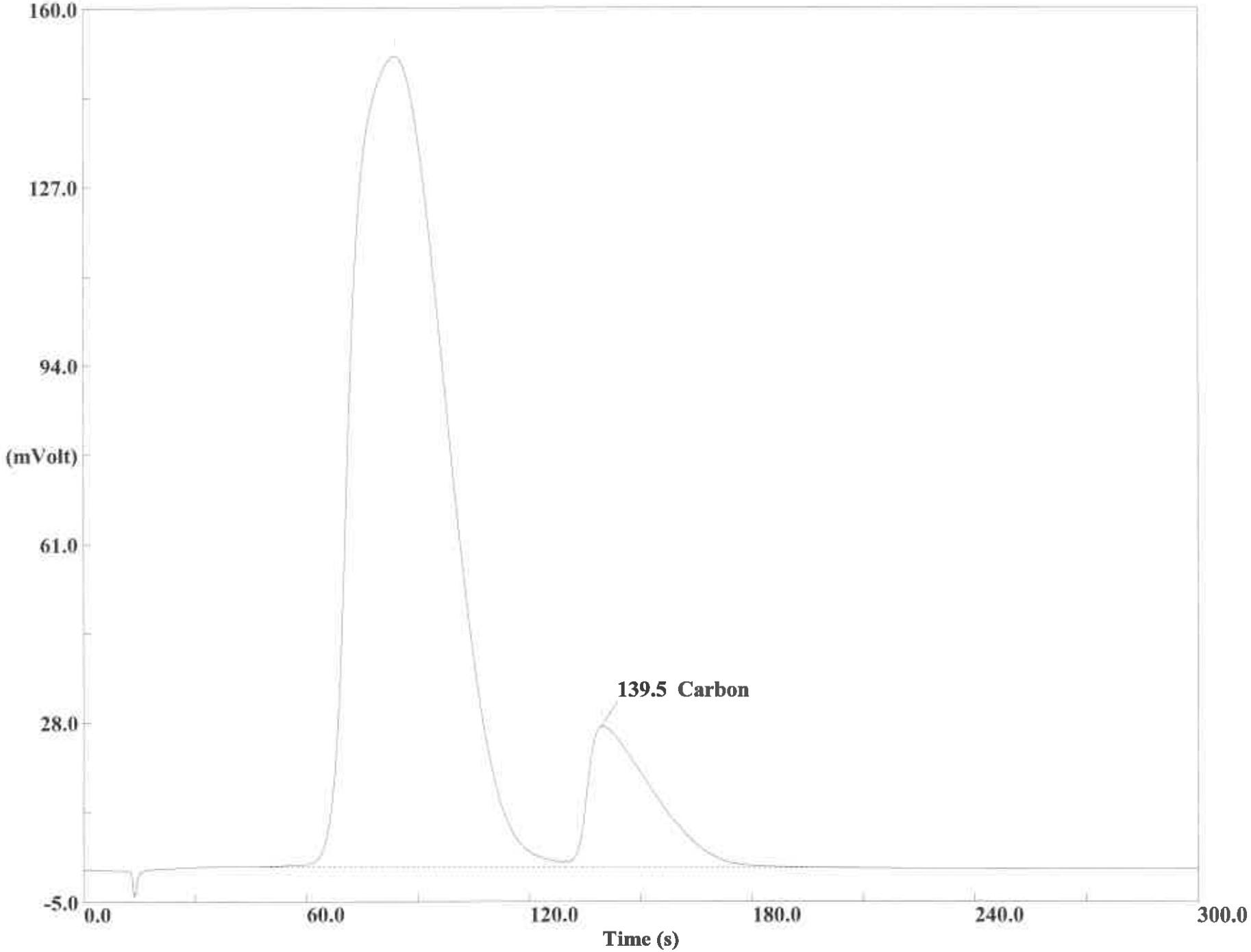
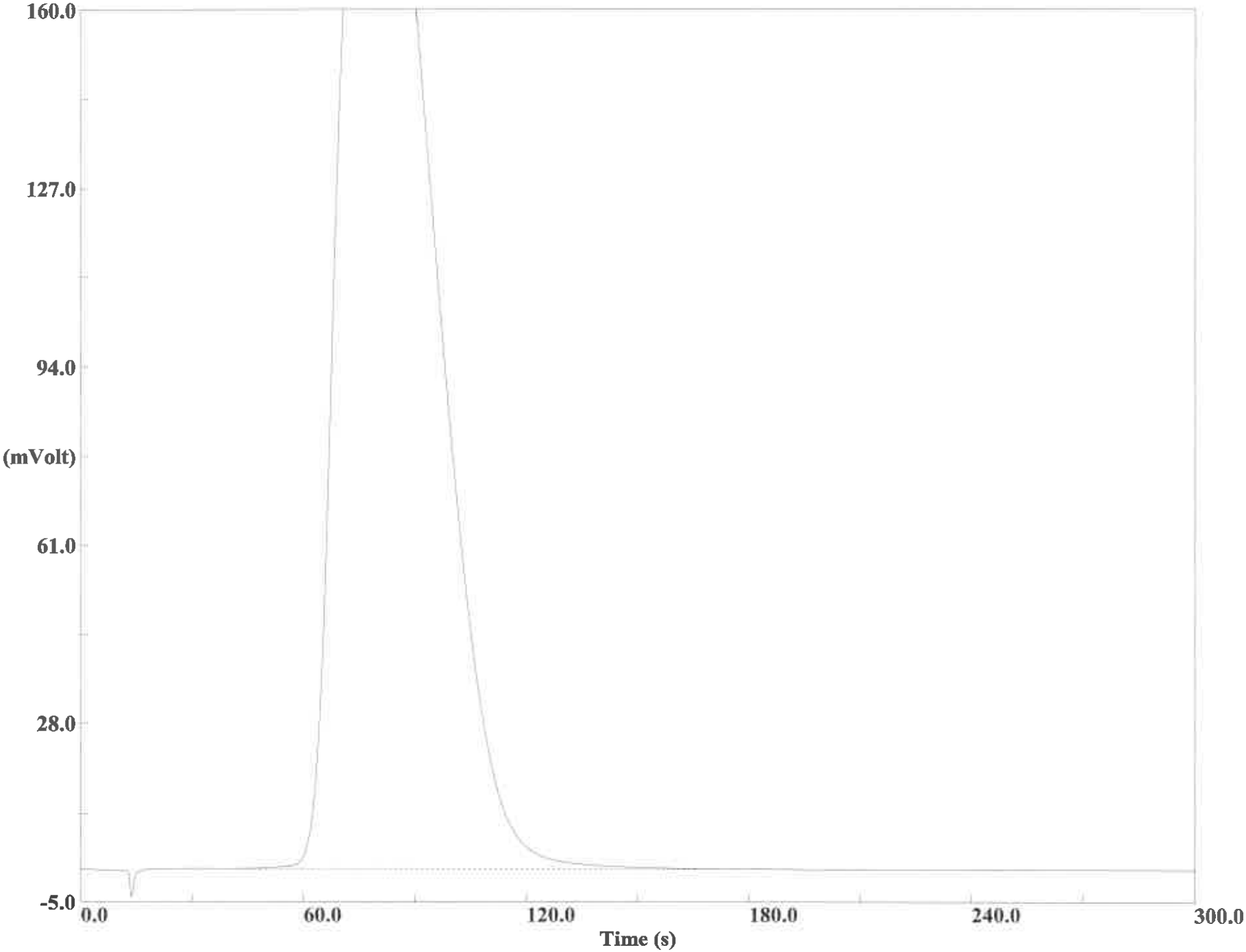
3723802
2792852
Area
1861901
930951
0
0.
0.404
0.808
1.212
1.616
2.02
Element amount
Component name : Carbon (Linear fit) Kb=2333764 Kc=-62227.49 CF=0.9995582

Manual Integration on 09/12/18 by Josh Fritsch due to poor baseline draw



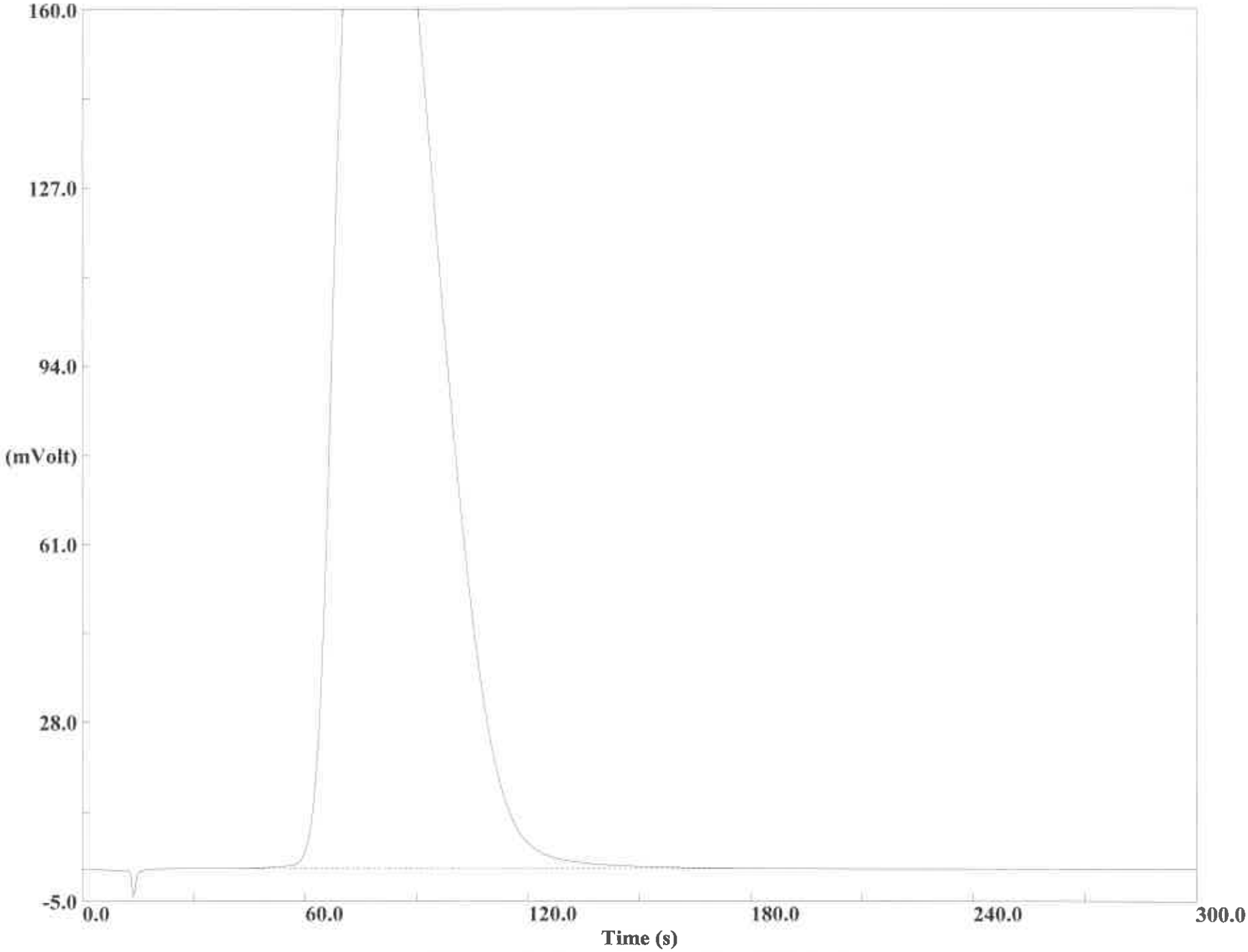
Filename C:\data\January\A091118001.DAT
Sample name :BYPASS Analysed :09/11/2018 10:36

Manual Integration on 09/12/18 by Josh Fritsch due to poor baseline draw



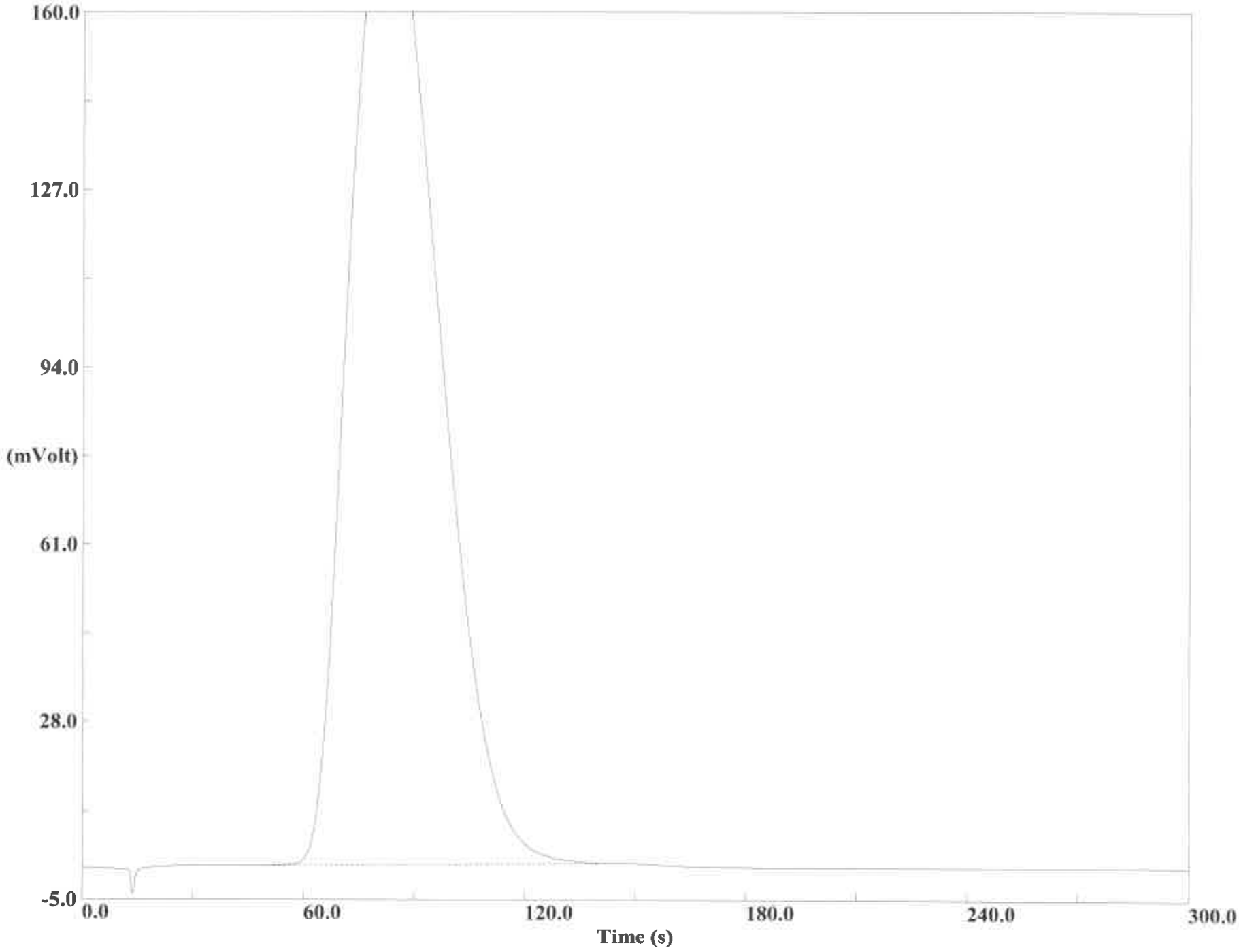
Filename C:\data\January\A091118002.DAT
Sample name :BLANK Analysed :09/11/2018 10:41

Manual Integration on 09/12/18 by Josh Fritsch due to poor baseline draw



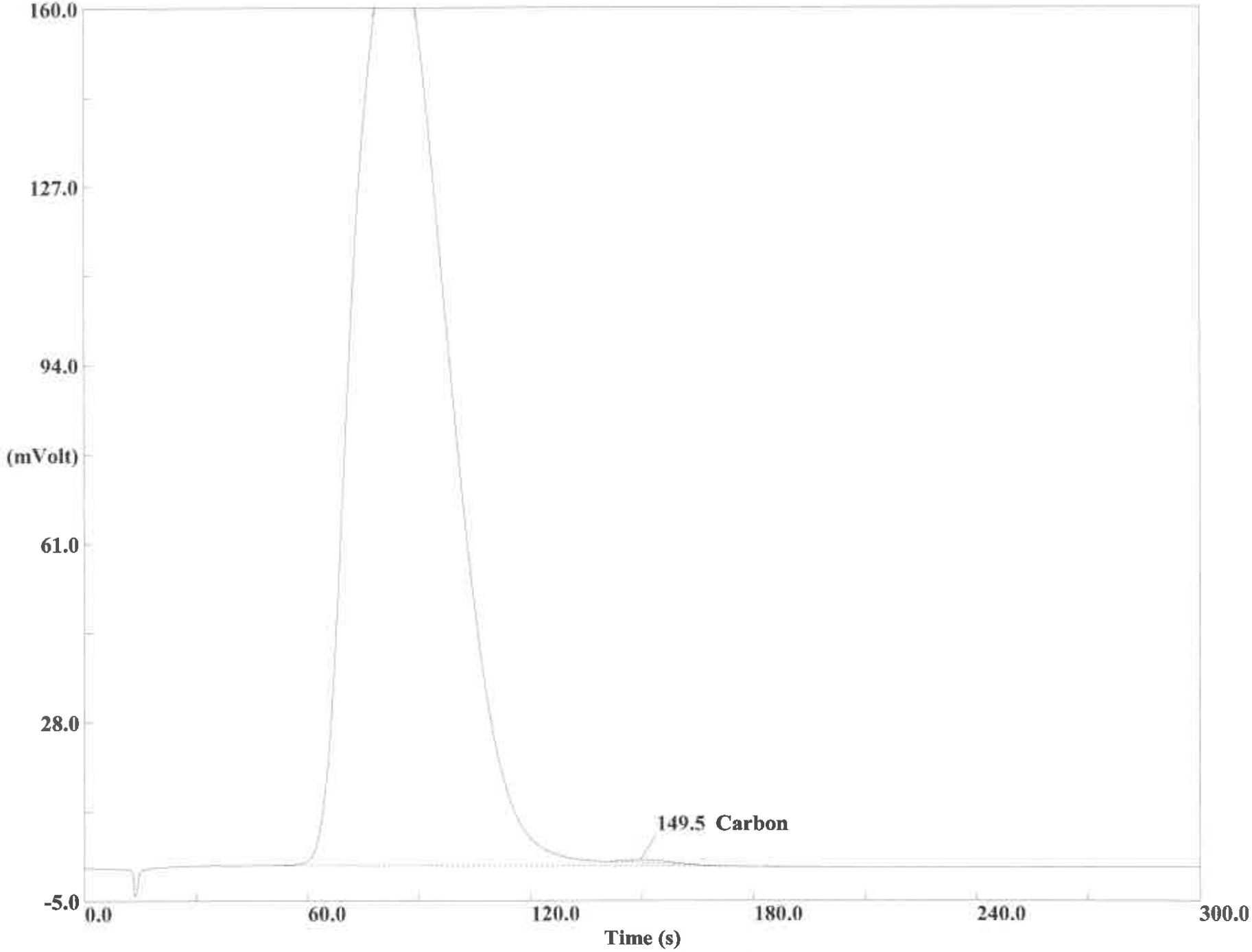
Filename C:\data\January\A091118003.DAT
Sample name :BLANK Analysed :09/11/2018 10:46

Manual Integration on 09/12/18 by Josh Fritsch due to poor baseline draw



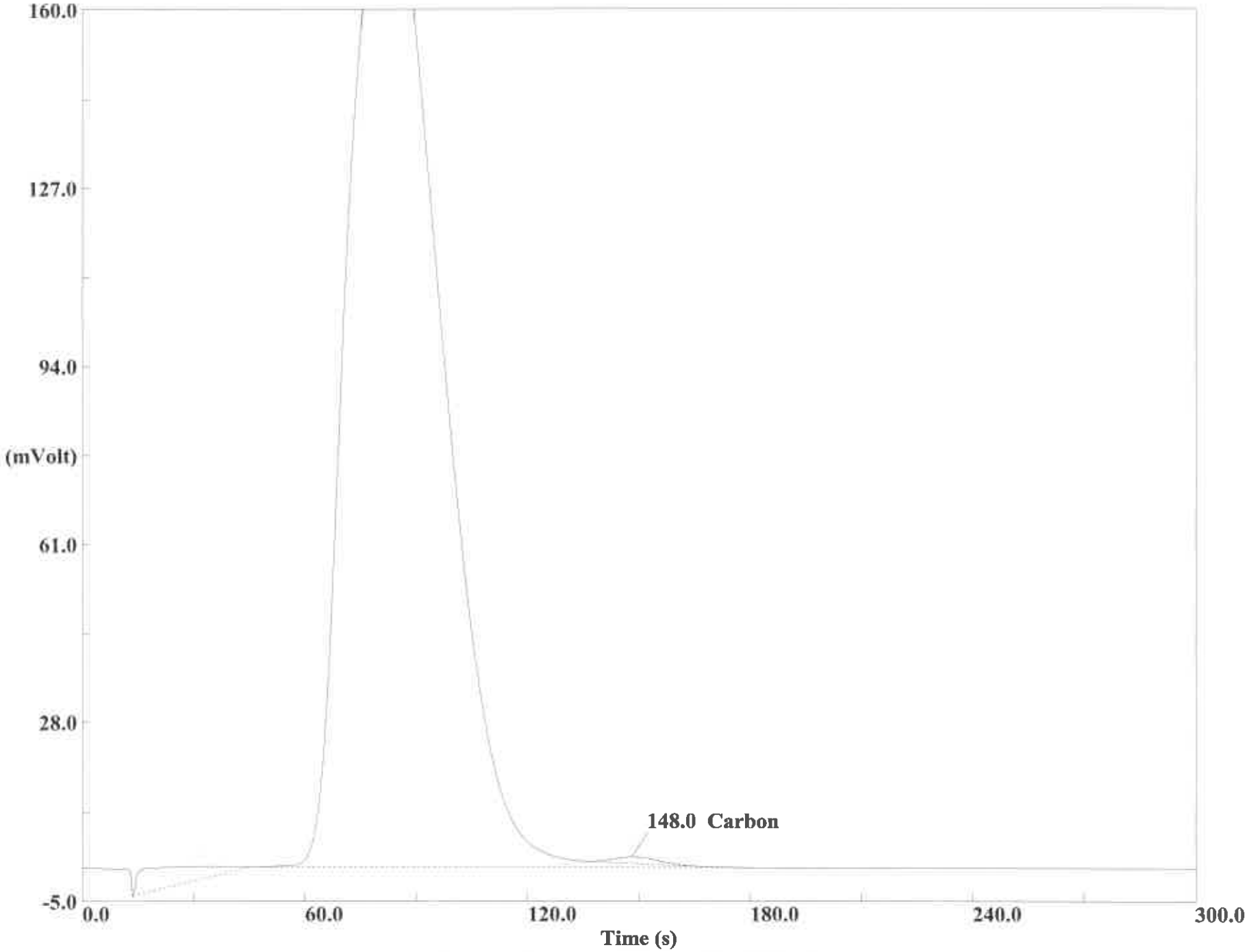
Filename C:\data\January\A091118004.DAT
Sample name :1,000 KHP CT#2854410 Analysed :09/11/2018 10:51

Manual Integration on 09/12/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A091118005.DAT
Sample name :2,500 KHP CT#2854403 Analysed :09/11/2018 10:56

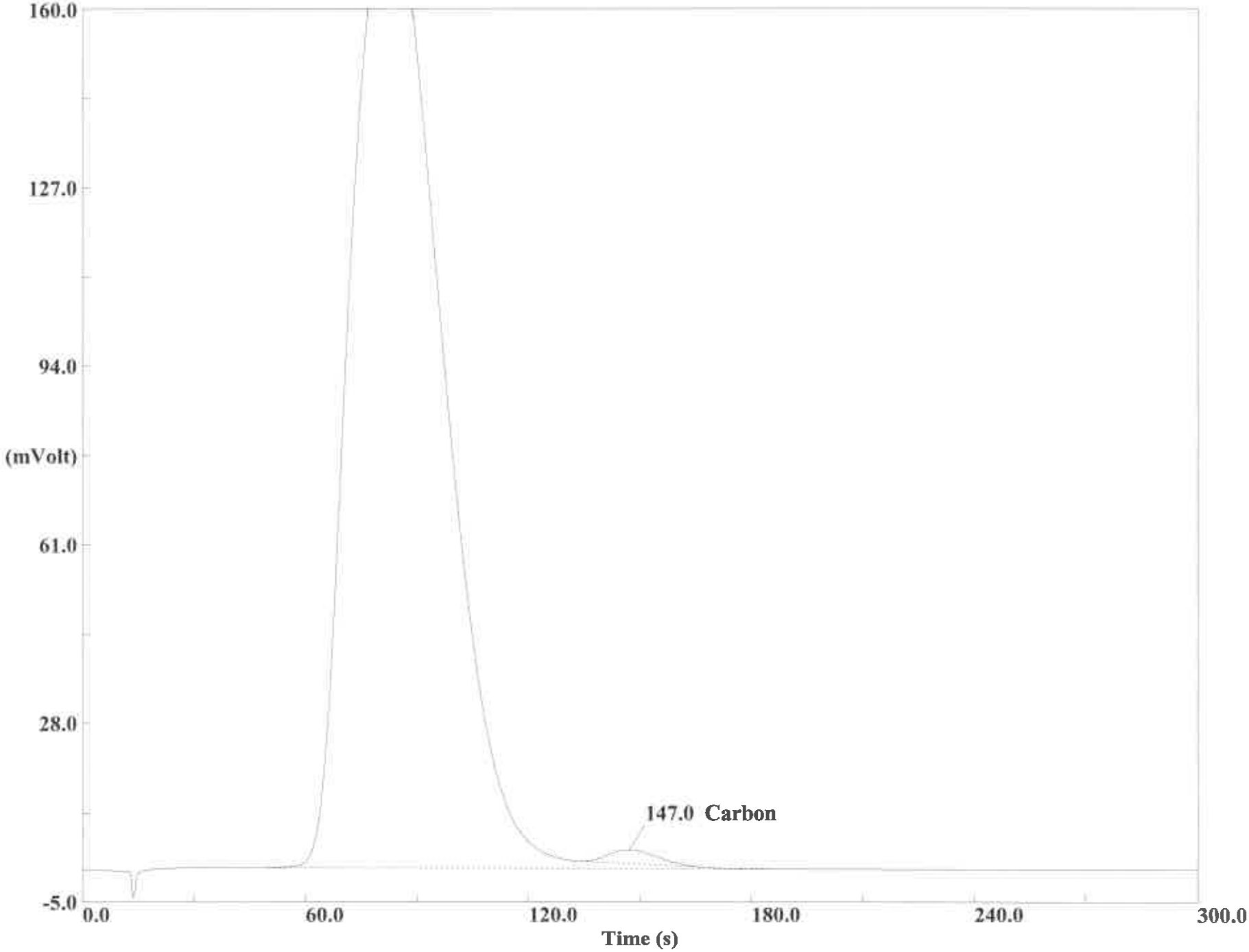
Manual Integration on 09/12/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A091118006.DAT

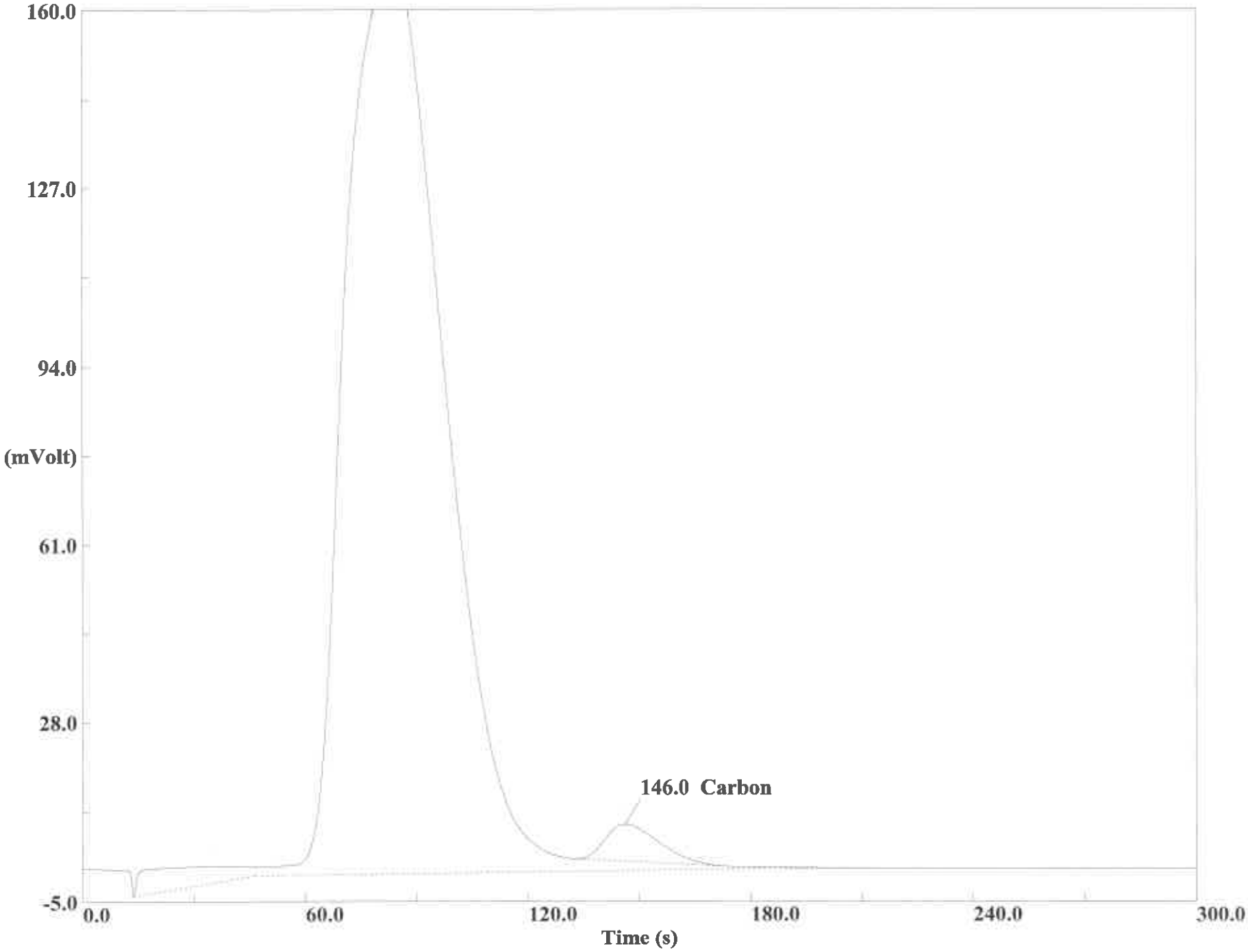
Sample name :5,000 KHP CT#2854403 Analysed :09/11/2018 11:02

Manual Integration on 09/12/18 by Josh Fritsch due to poor baseline draw



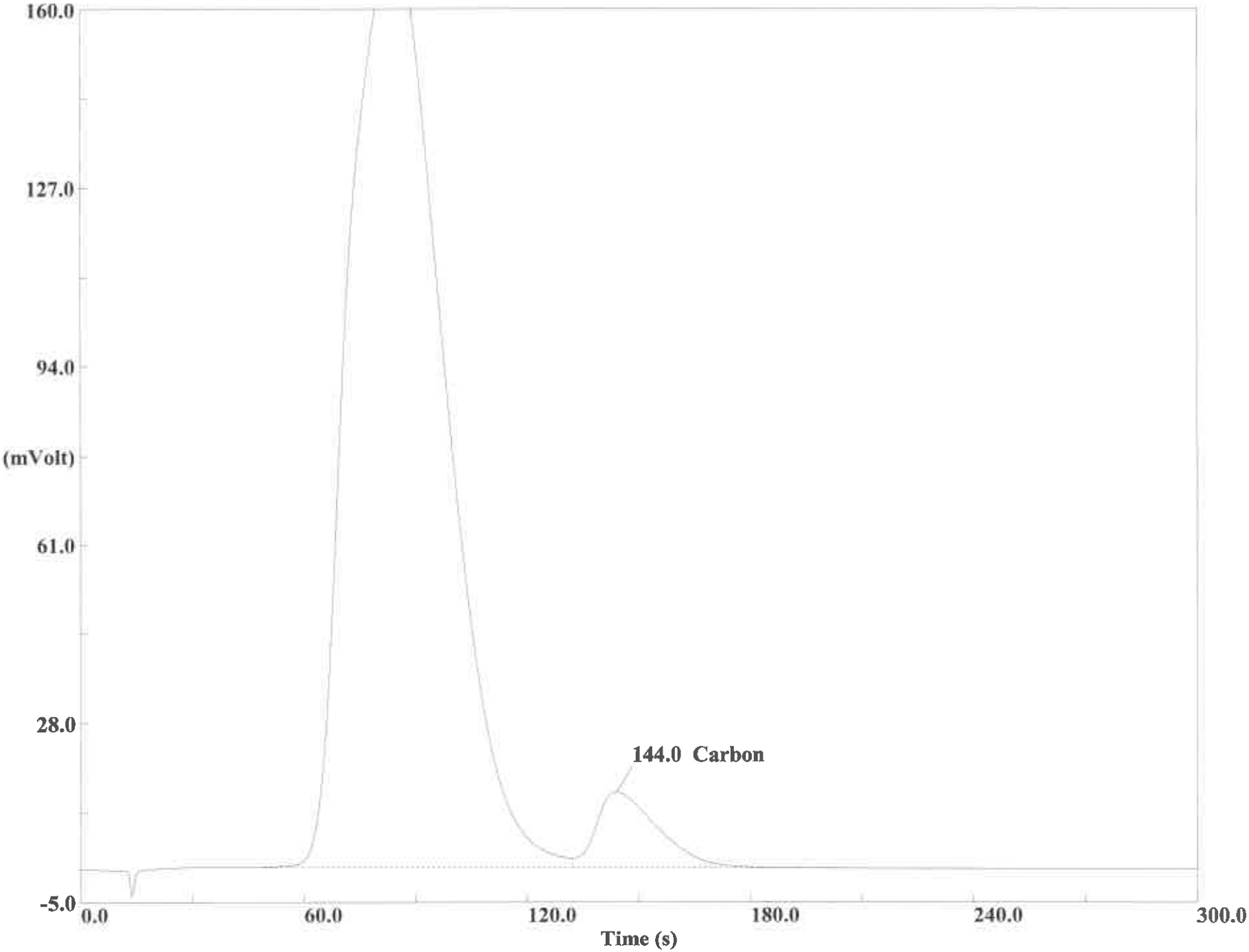
Filename C:\data\January\A091118007.DAT
Sample name :10,000 KHP CT#2854403 Analysed :09/11/2018 11:07

Manual Integration on 09/12/18 by Josh Fritsch due to poor baseline draw



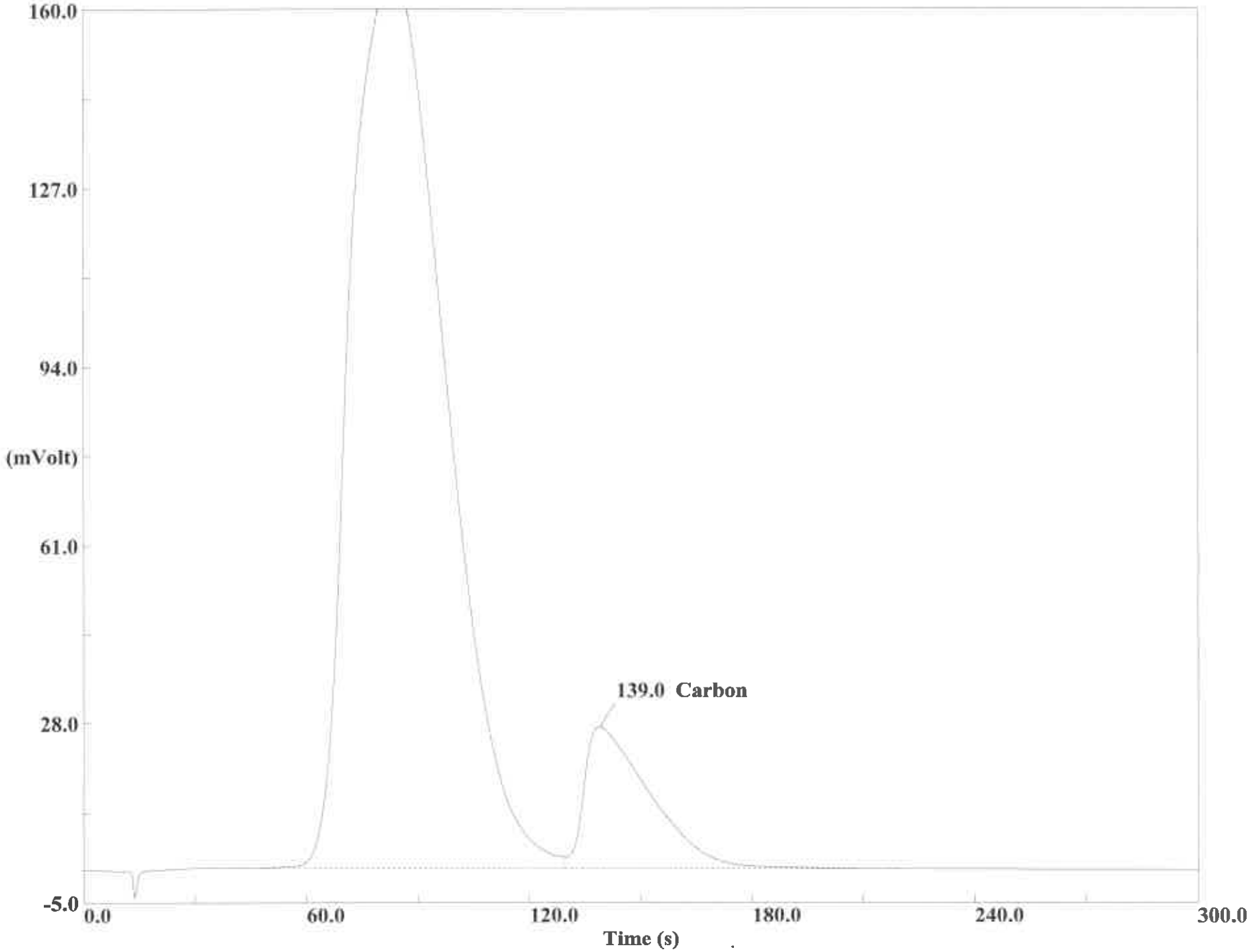
Filename C:\data\January\A091118008.DAT
Sample name :25,000 KHP CT#2854401 Analysed :09/11/2018 11:12

Manual Integration on 09/12/18 by Josh Fritsch due to poor baseline draw



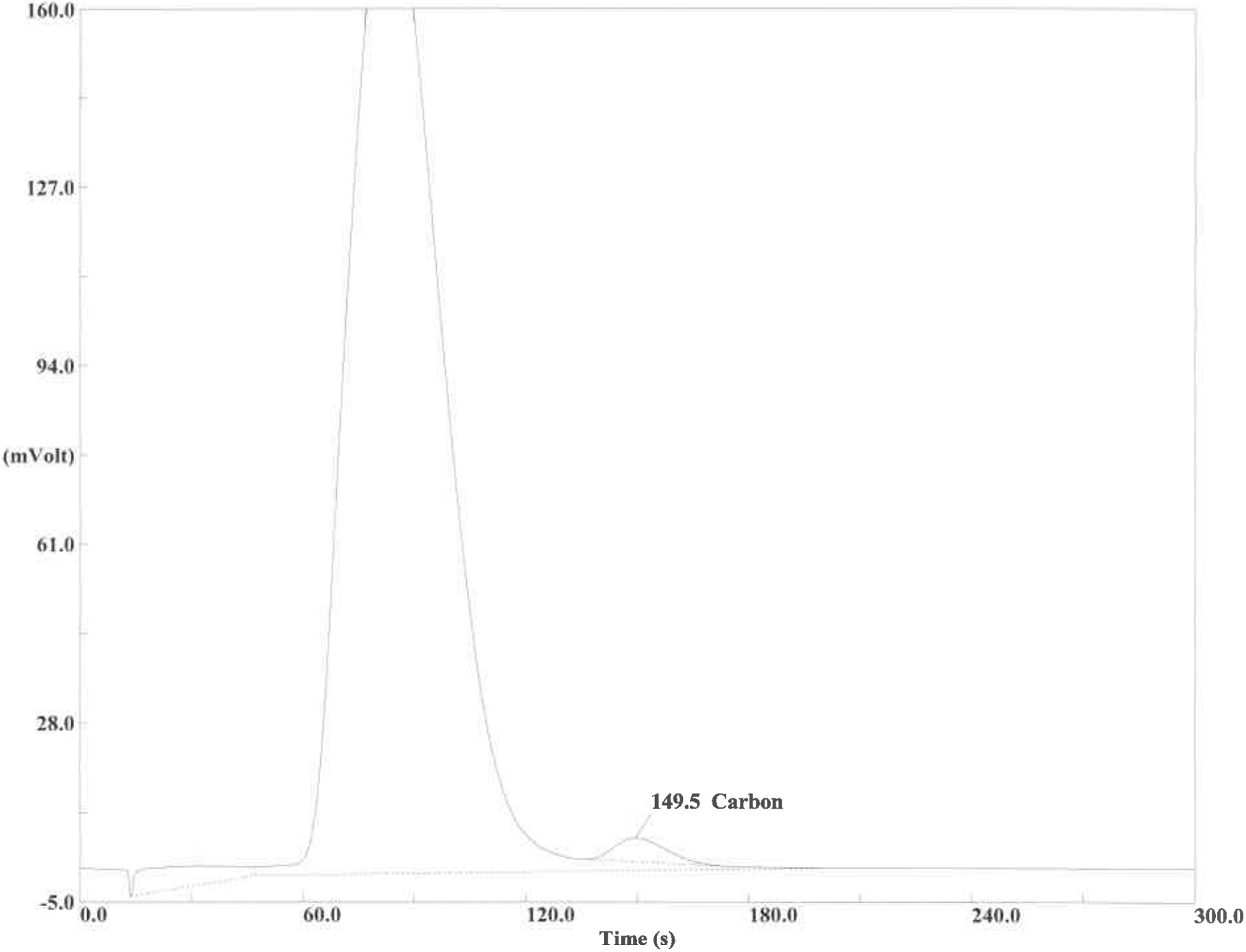
Filename C:\data\January\A091118009.DAT
Sample name :50,000 KHP CT#2854401 Analysed :09/11/2018 11:17

Manual Integration on 09/12/18 by Josh Fritsch due to poor baseline draw



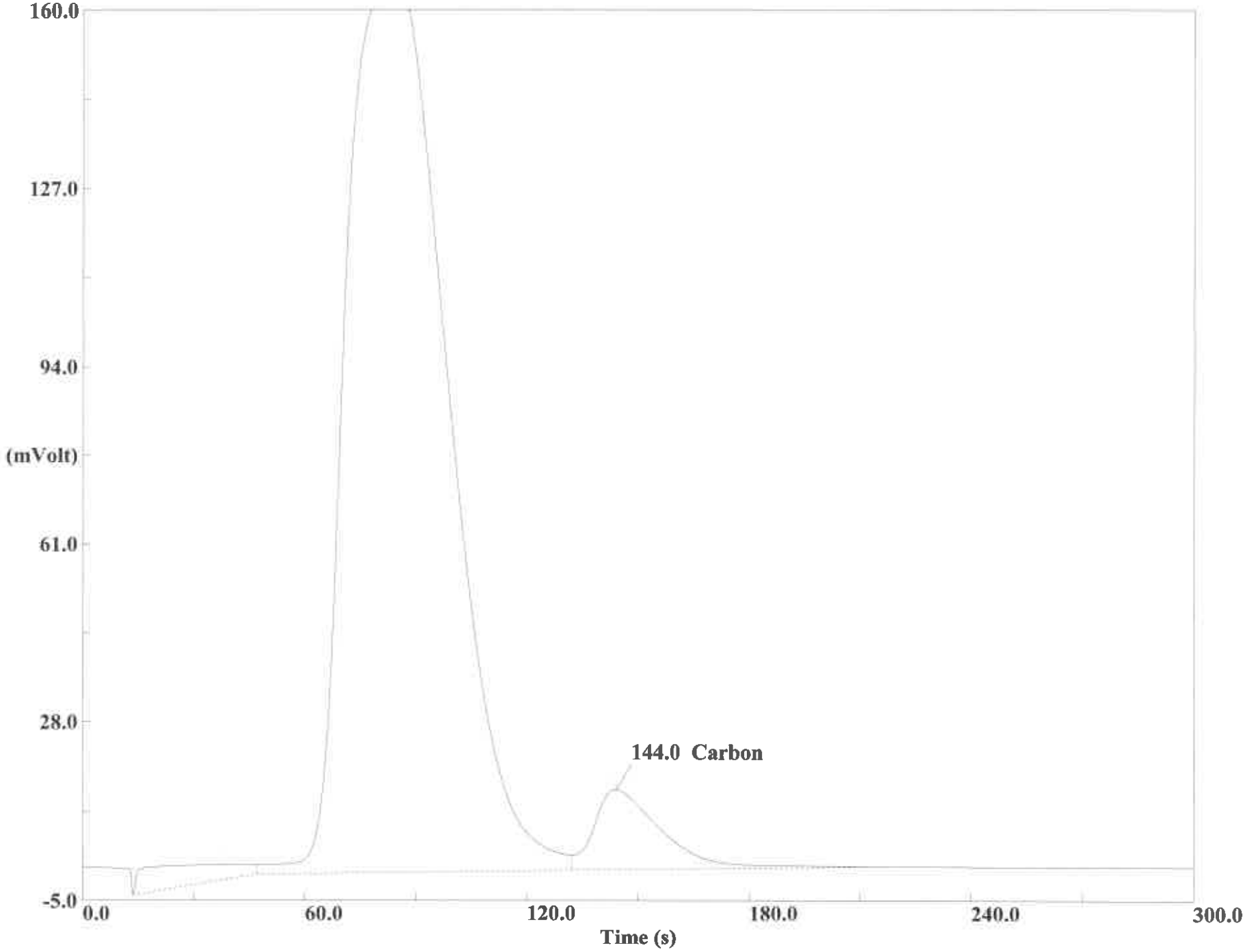
Filename C:\data\January\A091118010.DAT
Sample name :100,000 KHP CT#2854401 Analysed :09/11/2018 11:22

Manual Integration on 09/12/18 by Josh Fritsch due to poor baseline draw



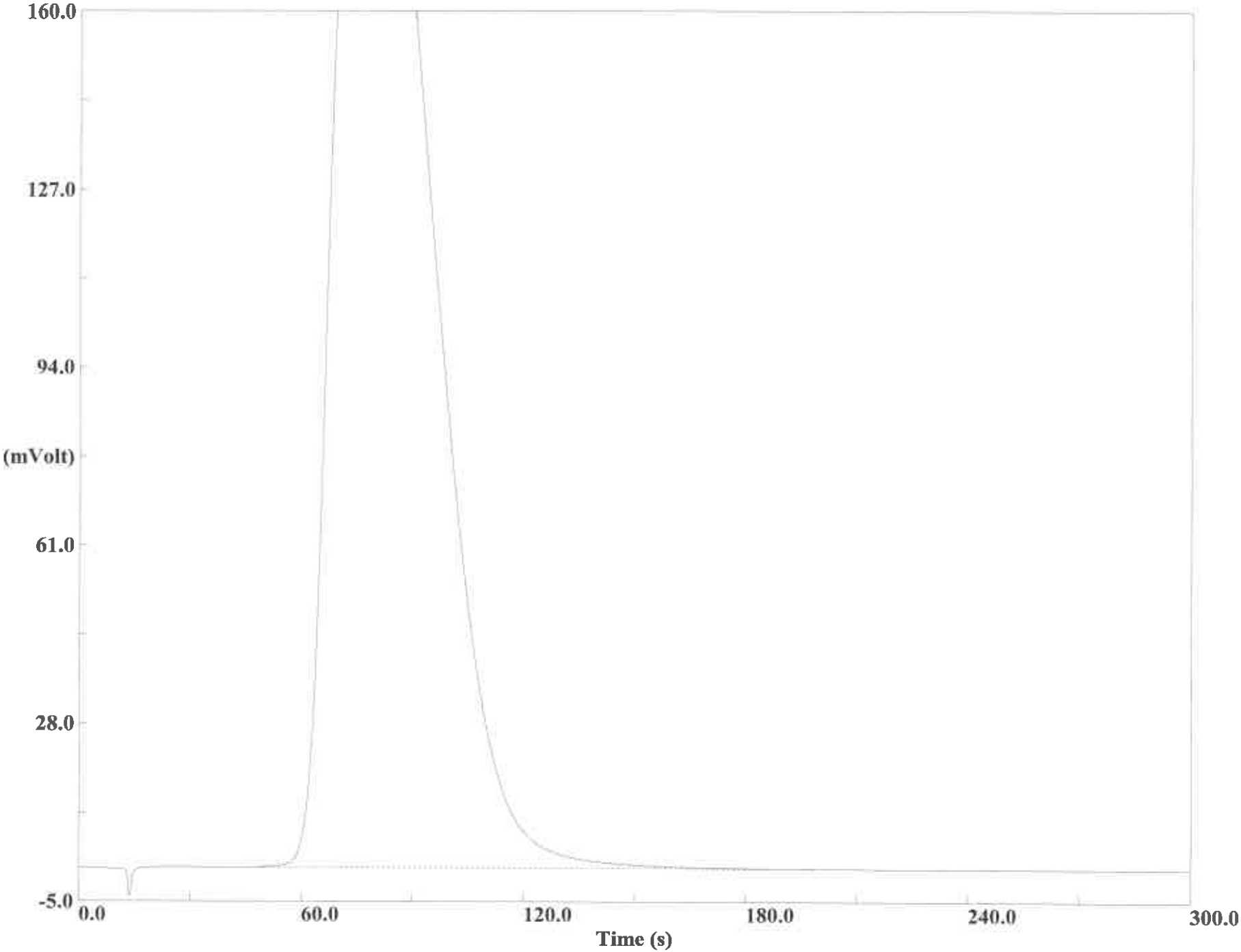
Filename C:\data\January\A091118011.DAT
Sample name :ICV 37,760 KHP CT#2809390 Analysed :09/11/2018 11:27

Manual Integration on 09/12/18 by Josh Fritsch due to poor baseline draw



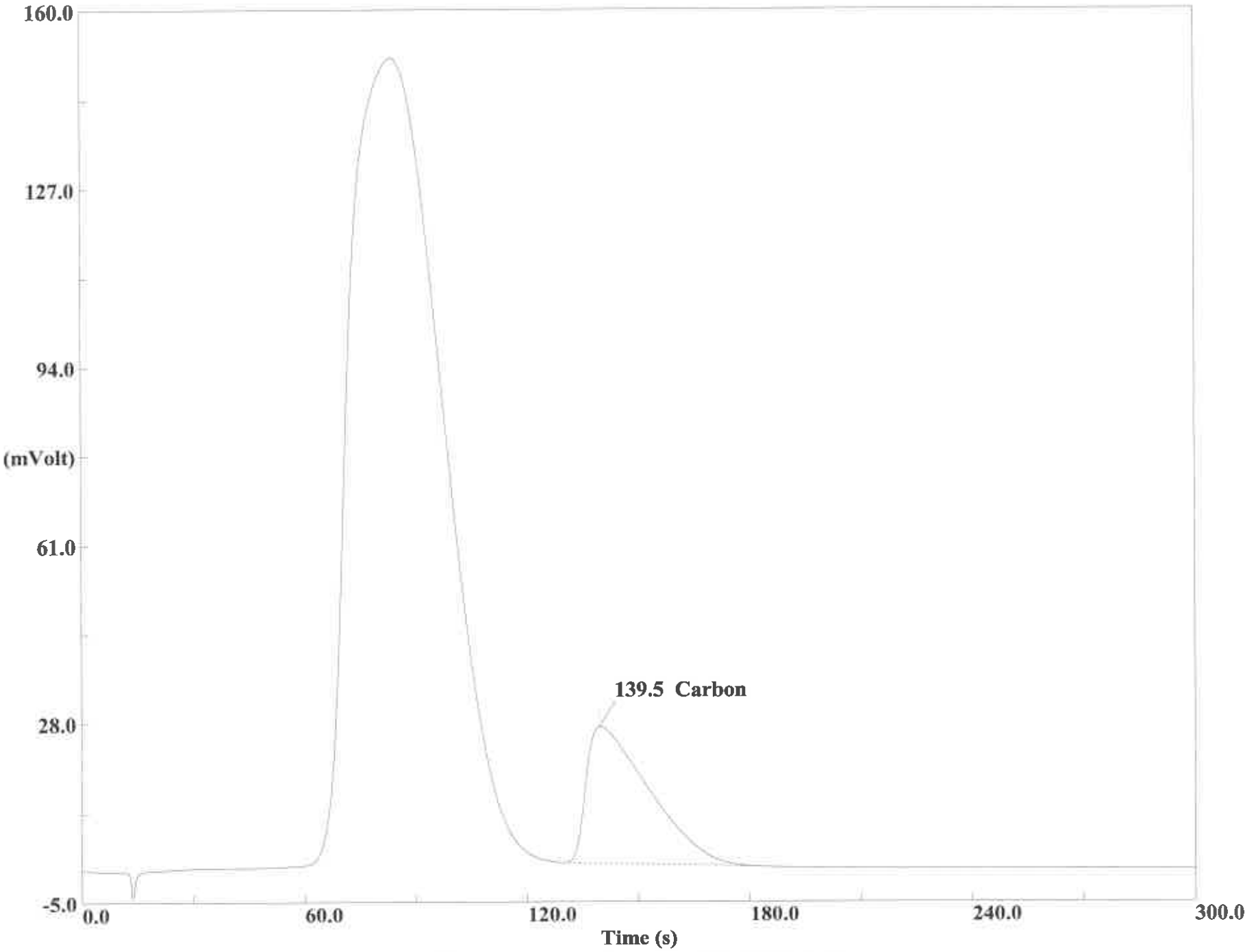
Filename C:\data\January\A091118012.DAT
Sample name :CCV Analysed :09/11/2018 11:32

Manual Integration on 09/12/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A091118013.DAT
Sample name :CCB Analysed :09/11/2018 11:37

Manual Integration on 09/12/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A091118001.DAT
Sample name :BYPASS Analysed :09/11/2018 10:36

Eager 300 Report

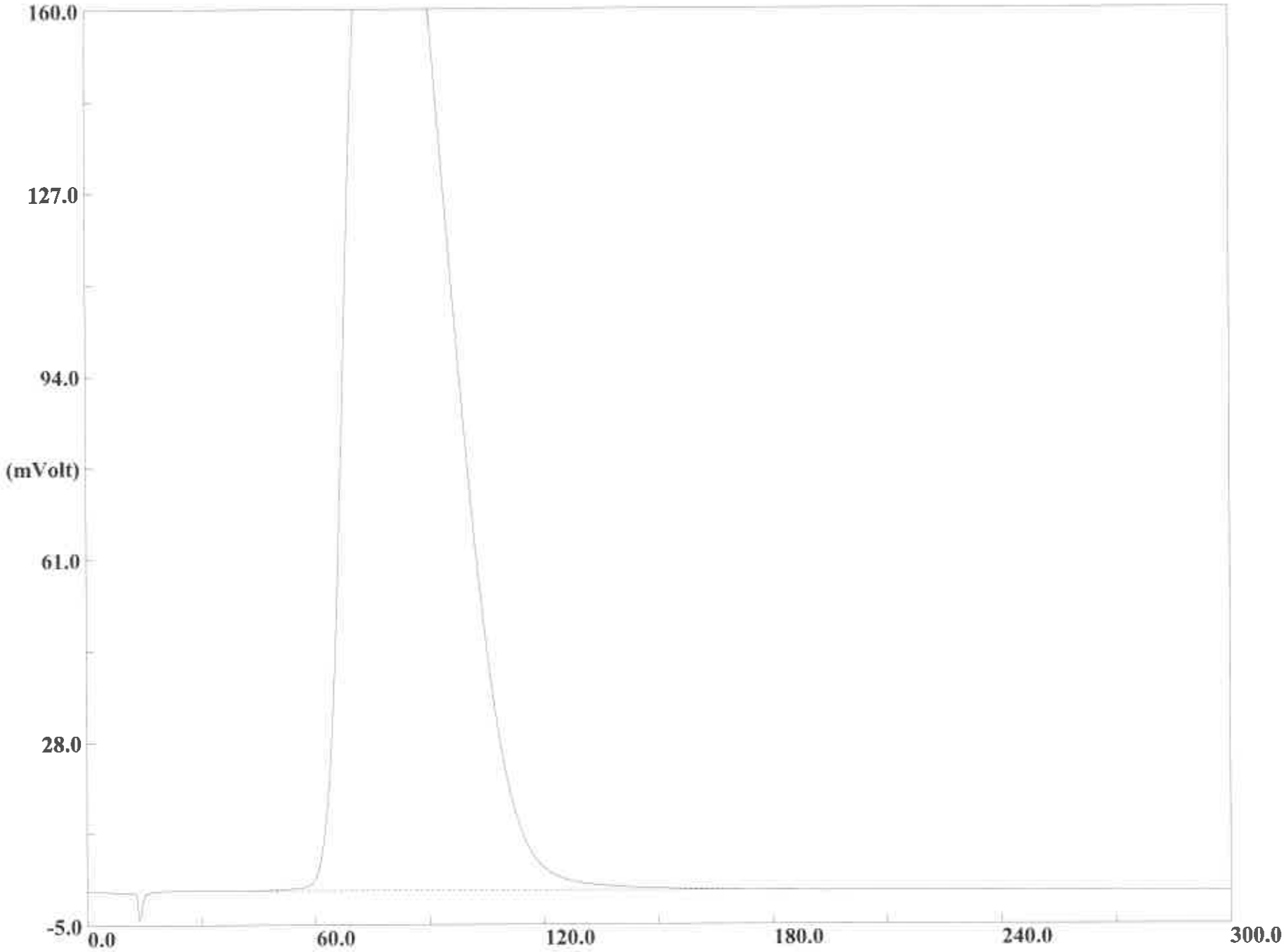
Page: 1 Sample: BYPASS (A091118001)

Method Name : Lloyd Kahn
Method File : C:\data\January\091118ICAL.mth
Chromatogram : A091118001
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 09/11/2018 10:36 Printed : 9/12/2018 10:11
Sample ID : BYPASS (# 1)
Instrument N. : Instrument #1
Analysis Type : By-Pass (Area) Sample weight :---

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio
Carbon	0.0000	140	4892907	mi	1.000000

Manual Integration on 09/12/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A091118002.DAT
Sample name :BLANK Analysed :09/11/2018 10:41

Eager 300 Report

Page: 1 Sample: BLANK (A091118002)

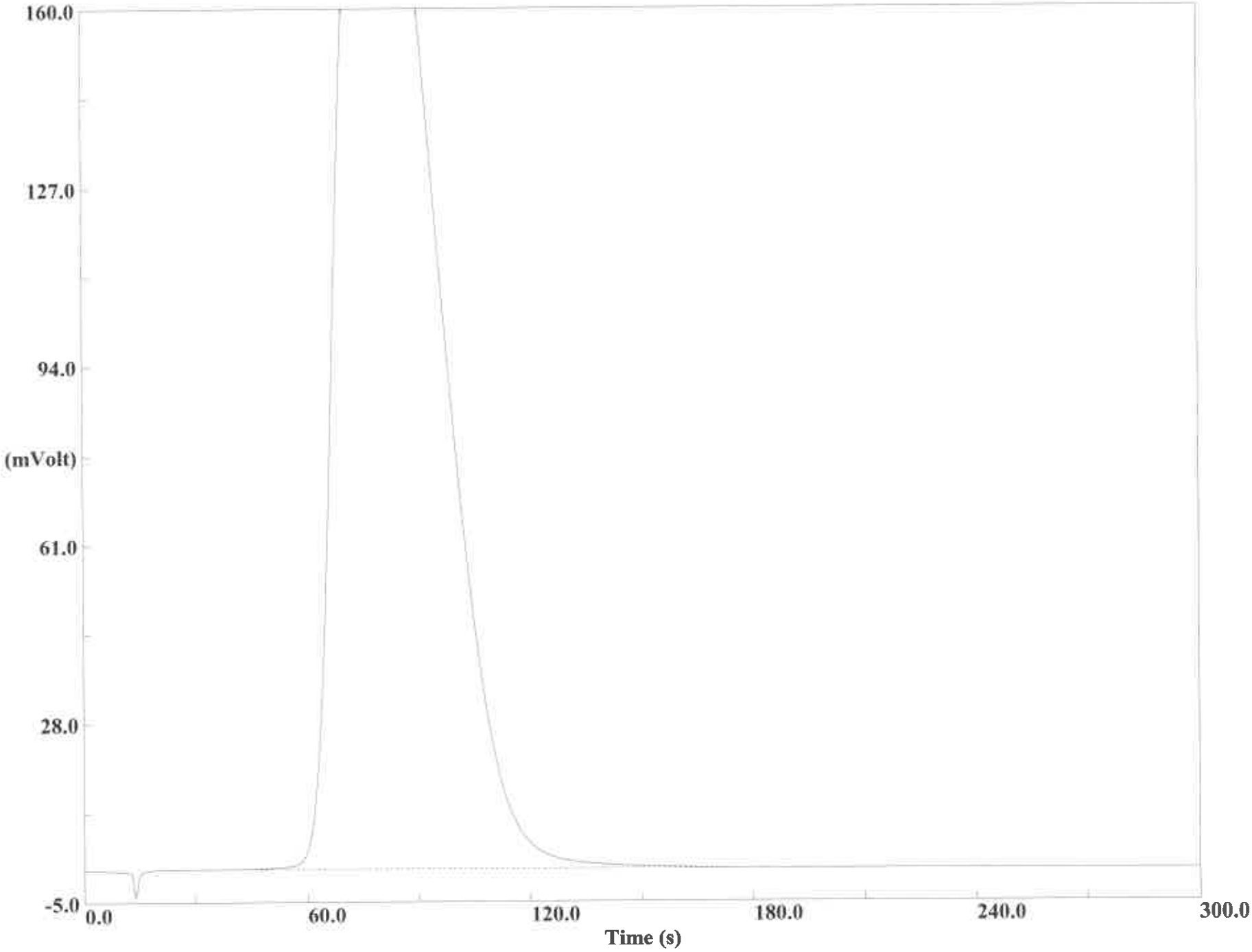
Method Name : Lloyd Kahn
Method File : C:\data\January\091118ICAL.mth
Chromatogram : A091118002
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 09/11/2018 10:41 Printed : 9/12/2018 10:11
Sample ID : BLANK (# 2)
Instrument N. : Instrument #1
Analysis Type : Blank (Area) Sample weight :---

Calib. method : using 'Least Squares to Linear fit'

!!! Warning missing one or more peaks.

Element Name	%	Ret.Time	Area	BC	Area ratio

Manual Integration on 09/12/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A091118003.DAT
Sample name :BLANK Analysed :09/11/2018 10:46

Eager 300 Report

Page: 1 Sample: BLANK (A091118003)

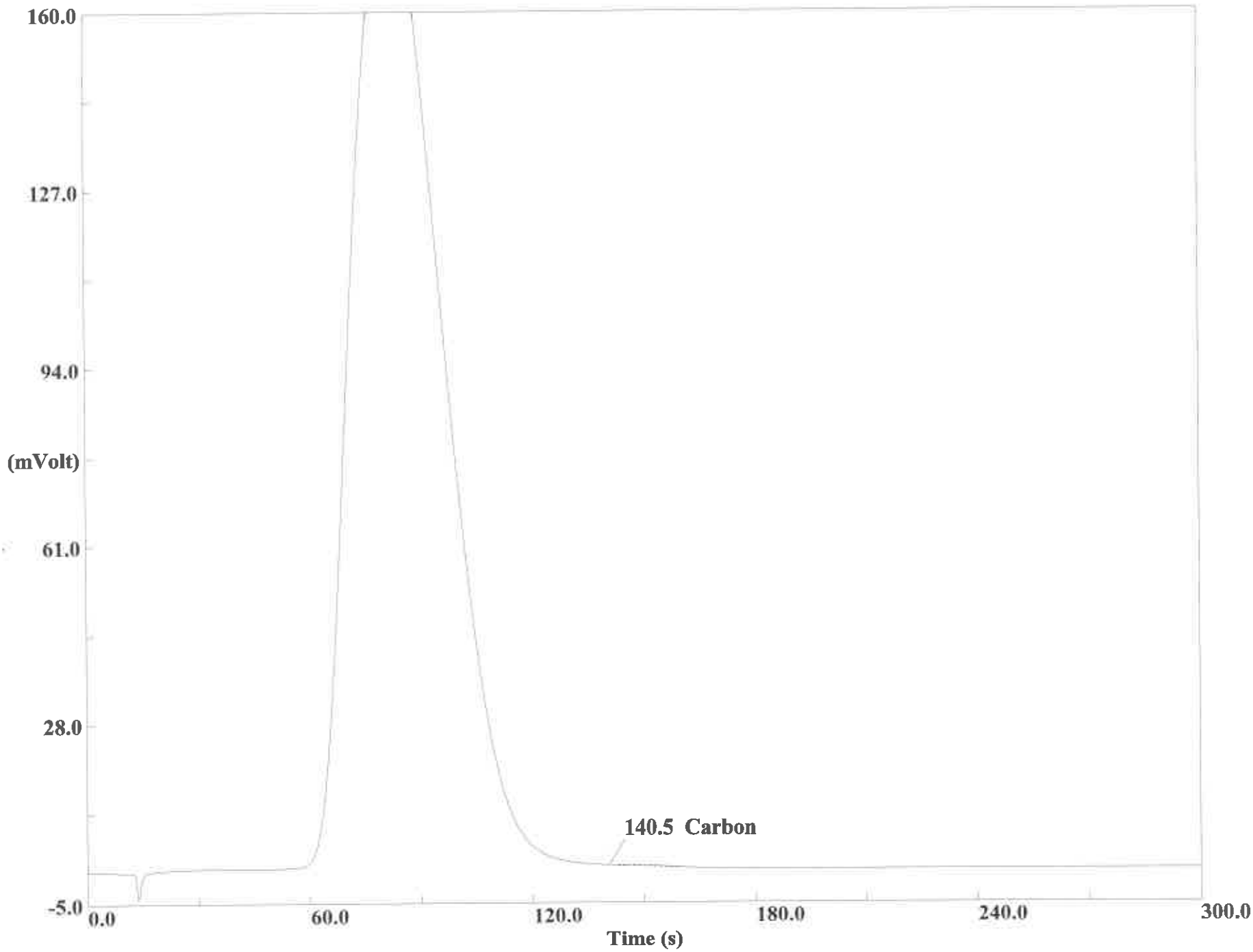
Method Name : Lloyd Kahn
Method File : C:\data\January\091118ICAL.mth
Chromatogram : A091118003
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 09/11/2018 10:46 Printed : 9/12/2018 10:11
Sample ID : BLANK (# 3)
Instrument N. : Instrument #1
Analysis Type : Blank (Area) Sample weight :---

Calib. method : using 'Least Squares to Linear fit'

!!! Warning missing one or more peaks.

Element Name	%	Ret.Time	Area	BC	Area ratio

Manual Integration on 09/12/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A091118004.DAT
Sample name :1,000 KHP CT#2854410 Analysed :09/11/2018 10:51

Eager 300 Report

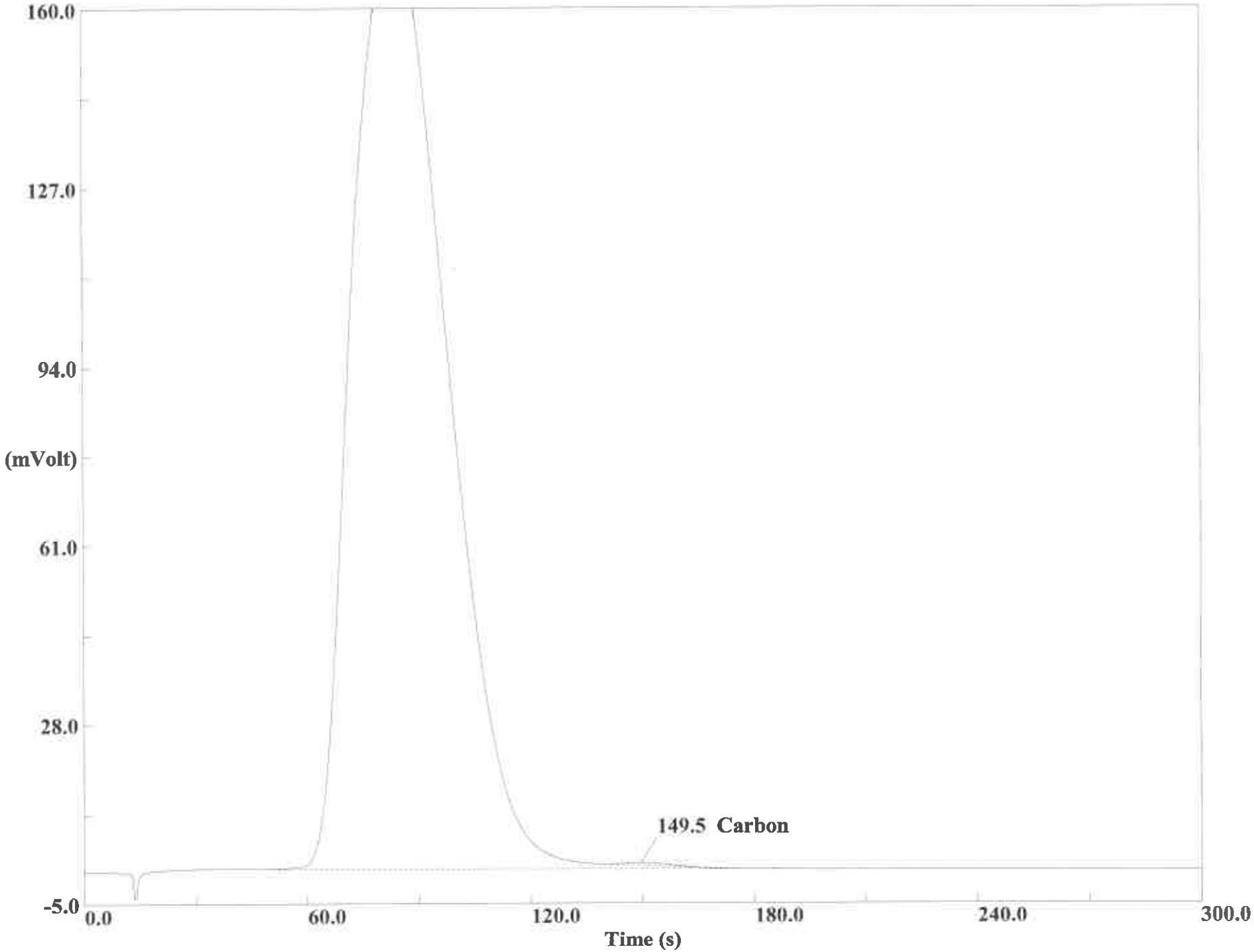
Page: 1 Sample: 1,000 KHP CT#2854410 (A091118004)

Method Name : Lloyd Kahn
Method File : C:\data\January\091118ICAL.mth
Chromatogram : A091118004
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 09/11/2018 10:51 Printed : 9/12/2018 10:11
Sample ID : 1,000 KHP CT#2854410 (# 4)
Instrument N. : Instrument #1
Analysis Type : Calibration (Area) Sample weight : 200

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.0100	141	19332	mi	1.000000	

Manual Integration on 09/12/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A091118005.DAT
Sample name :2,500 KHP CT#2854403 Analysed :09/11/2018 10:56

Eager 300 Report

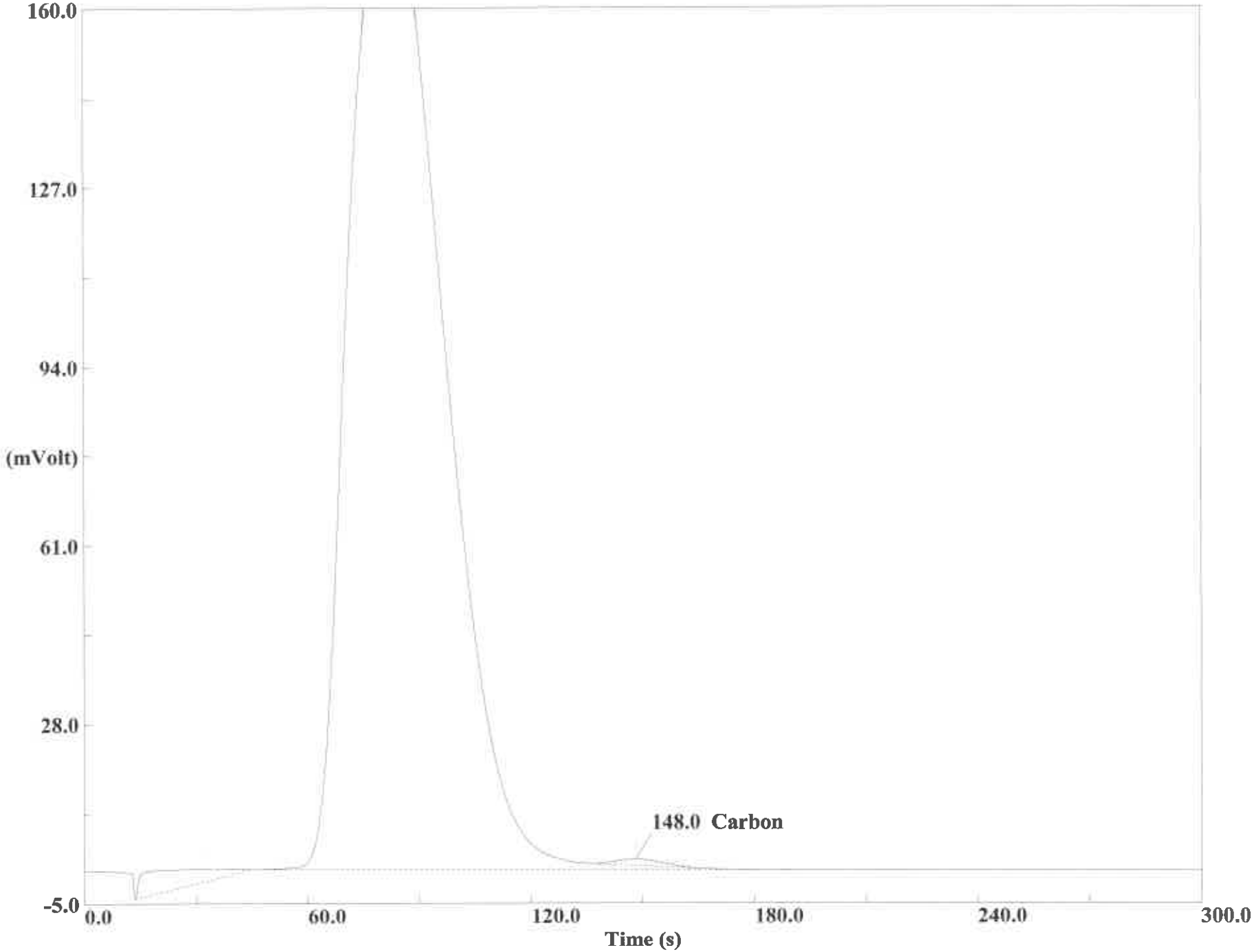
Page: 1 Sample: 2,500 KHP CT#2854403 (A091118005)

Method Name : Lloyd Kahn
Method File : C:\data\January\091118ICAL.mth
Chromatogram : A091118005
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 09/11/2018 10:56 Printed : 9/12/2018 10:12
Sample ID : 2,500 KHP CT#2854403 (# 5)
Instrument N. : Instrument #1
Analysis Type : Calibration (Area) Sample weight : 50

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.1000	150	70102	CR	1.000000	

Manual Integration on 09/12/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A091118006.DAT
Sample name :5,000 KHP CT#2854403 Analysed :09/11/2018 11:02

Eager 300 Report

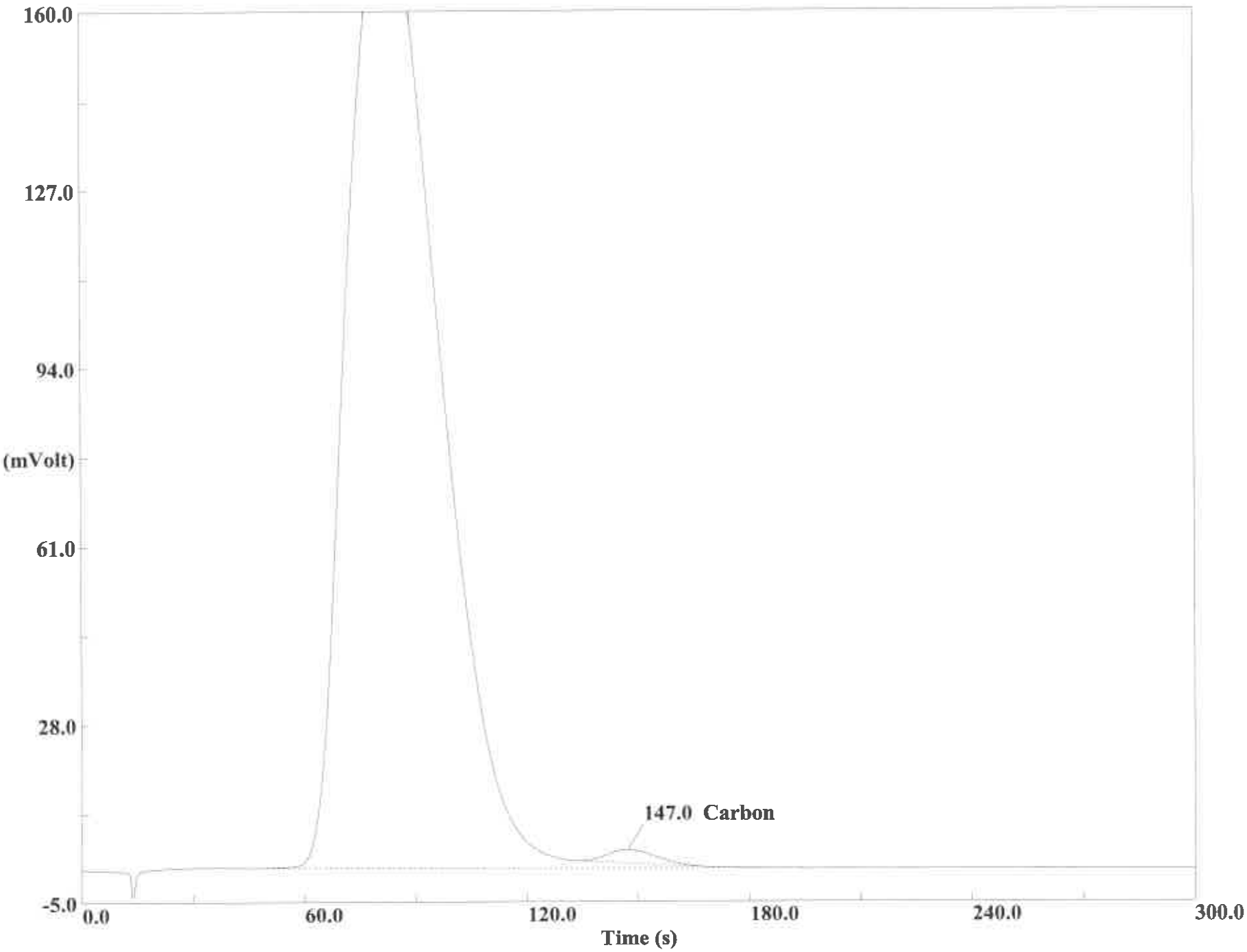
Page: 1 Sample: 5,000 KHP CT#2854403 (A091118006)

Method Name : Lloyd Kahn
Method File : C:\data\January\091118ICAL.mth
Chromatogram : A091118006
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 09/11/2018 11:02 Printed : 9/12/2018 10:12
Sample ID : 5,000 KHP CT#2854403 (# 6)
Instrument N. : Instrument #1
Analysis Type : Calibration (Area) Sample weight : 100

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.1000	148	164415	CR	1.000000	

Manual Integration on 09/12/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A091118007.DAT
Sample name :10,000 KHP CT#2854403 Analysed :09/11/2018 11:07

Eager 300 Report

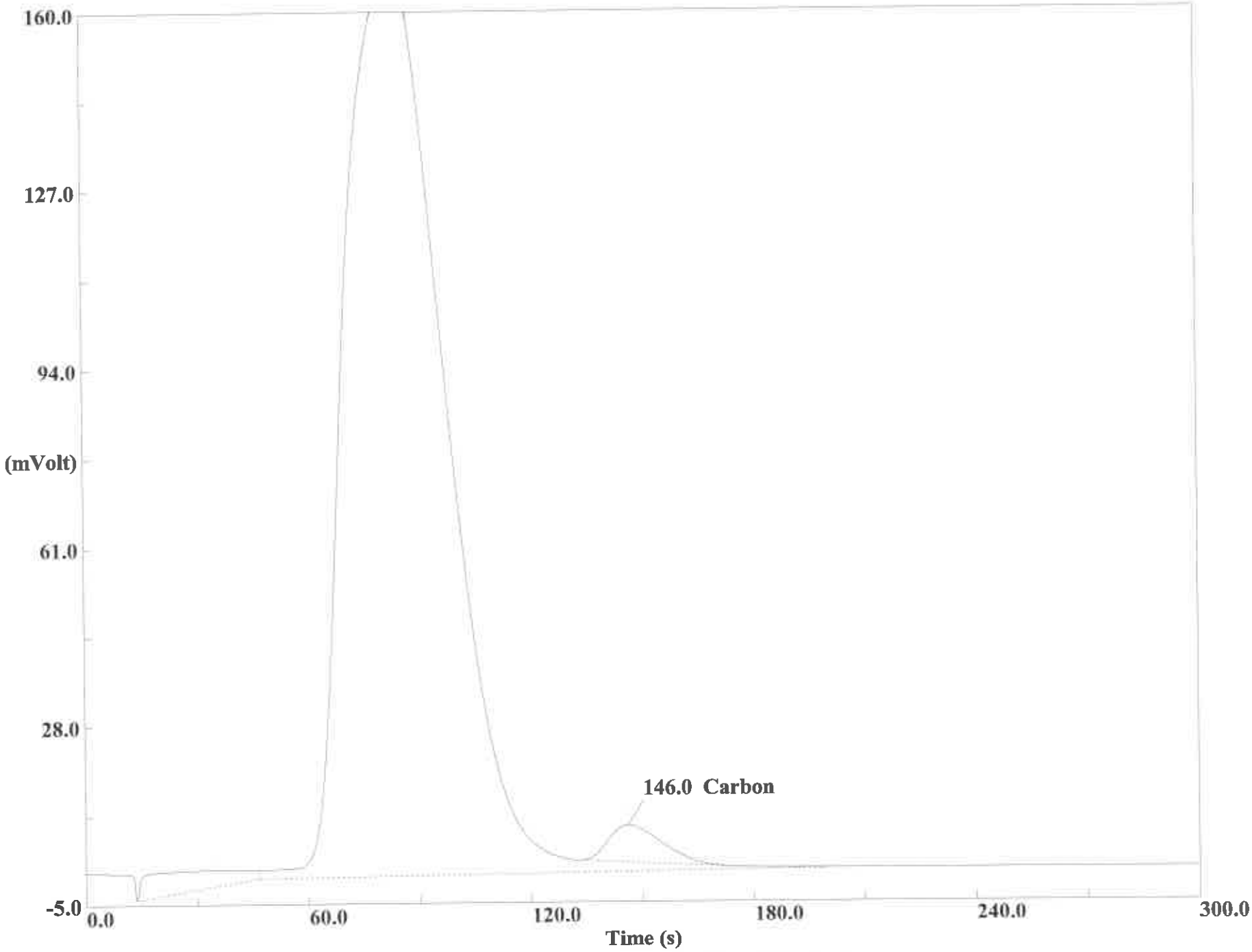
Page: 1 Sample: 10,000 KHP CT#2854403 (A091118007)

Method Name : Lloyd Kahn
Method File : C:\data\January\091118ICAL.mth
Chromatogram : A091118007
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 09/11/2018 11:07 Printed : 9/12/2018 10:12
Sample ID : 10,000 KHP CT#2854403 (# 7)
Instrument N. : Instrument #1
Analysis Type : Calibration (Area) Sample weight : 200

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.1000	147	377400	CR	1.000000	

Manual Integration on 09/12/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A091118008.DAT
Sample name :25,000 KHP CT#2854401 Analysed :09/11/2018 11:12

Eager 300 Report

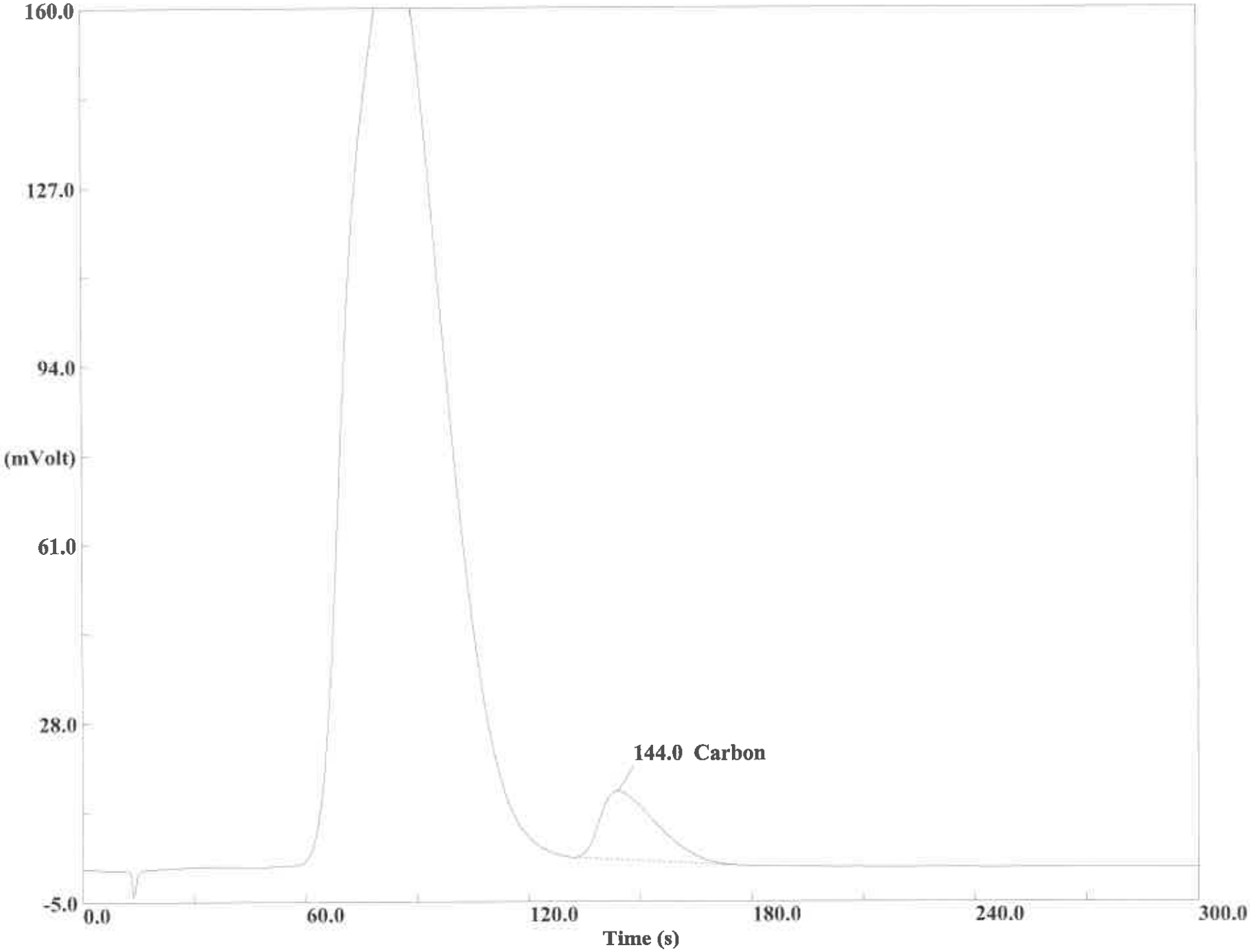
Page: 1 Sample: 25,000 KHP CT#2854401 (A091118008)

Method Name : Lloyd Kahn
Method File : C:\data\January\091118ICAL.mth
Chromatogram : A091118008
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 09/11/2018 11:12 Printed : 9/12/2018 10:12
Sample ID : 25,000 KHP CT#2854401 (# 8)
Instrument N. : Instrument #1
Analysis Type : Calibration (Area) Sample weight : 50

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	1.0000	146	1122327	CR	1.000000	

Manual Integration on 09/12/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A091118009.DAT
Sample name :50,000 KHP CT#2854401 Analysed :09/11/2018 11:17

Eager 300 Report

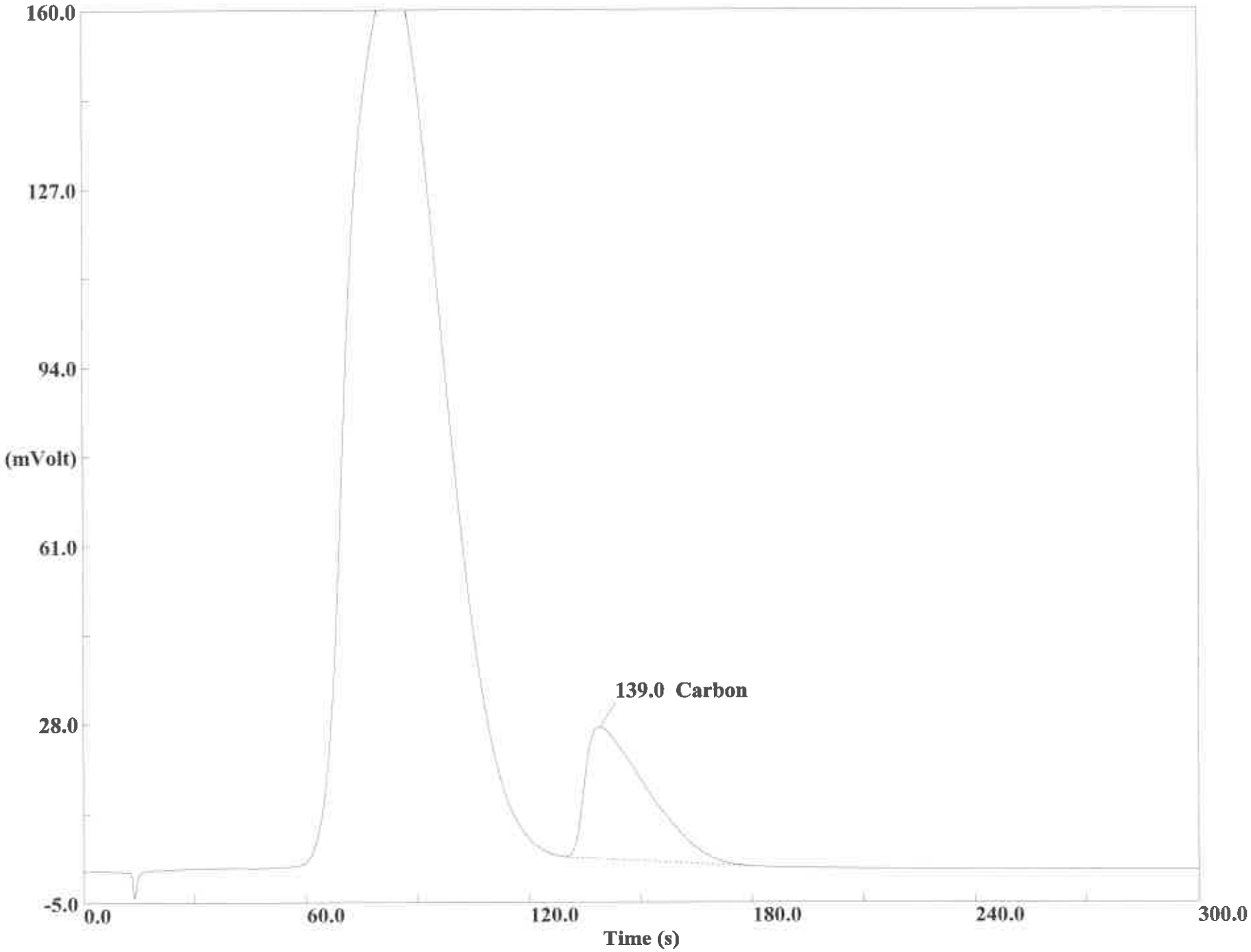
Page: 1 Sample: 50,000 KHP CT#2854401 (A091118009)

Method Name : Lloyd Kahn
Method File : C:\data\January\091118ICAL.mth
Chromatogram : A091118009
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 09/11/2018 11:17 Printed : 9/12/2018 10:12
Sample ID : 50,000 KHP CT#2854401 (# 9)
Instrument N. : Instrument #1
Analysis Type : Calibration (Area) Sample weight : 100

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	1.0000	144	2207077	mi	1.000000	

Manual Integration on 09/12/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A091118010.DAT
Sample name :100,000 KHP CT#2854401 Analysed :09/11/2018 11:22

Eager 300 Report

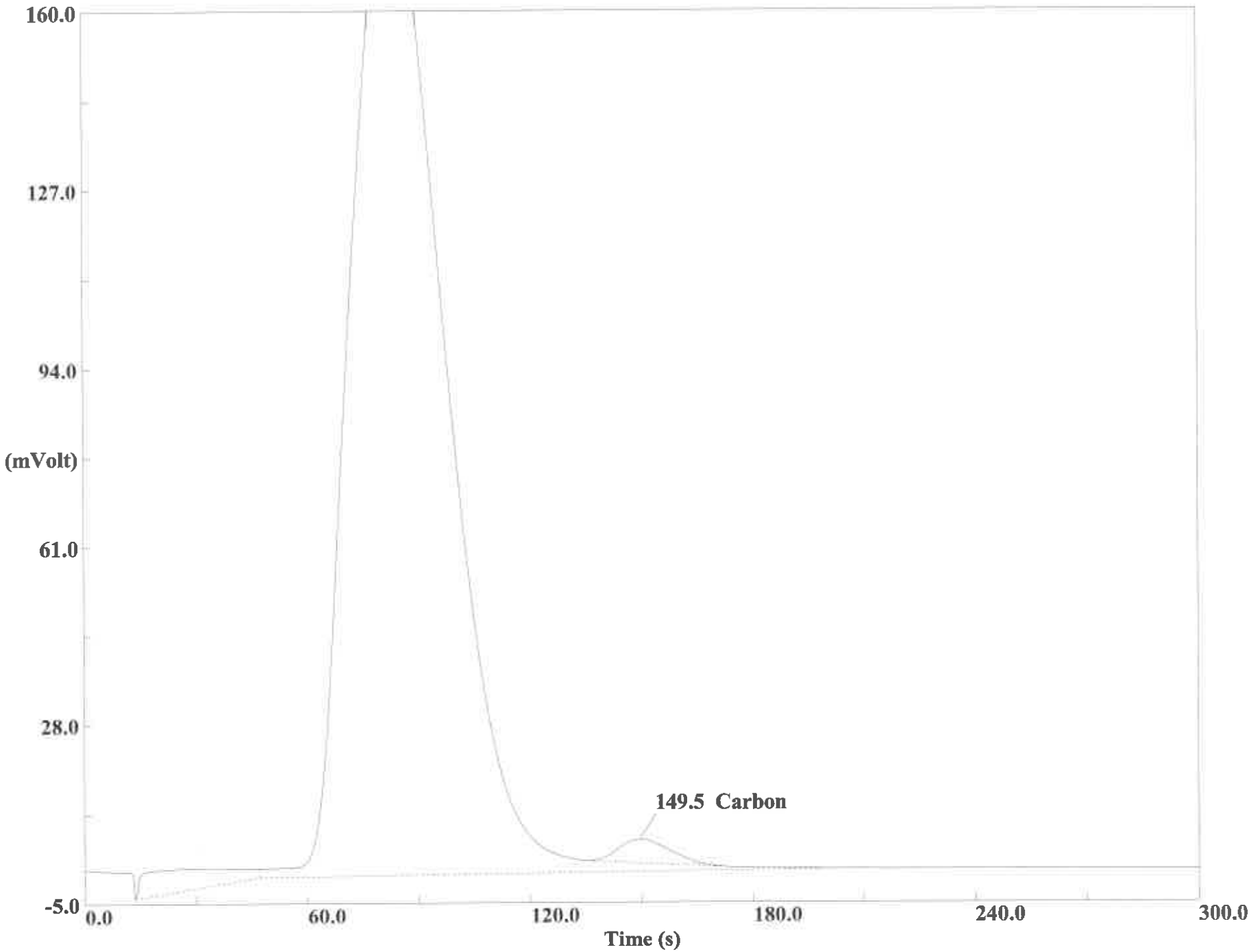
Page: 1 Sample: 100,000 KHP CT#2854401 (A091118010)

Method Name : Lloyd Kahn
Method File : C:\data\January\091118ICAL.mth
Chromatogram : A091118010
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 09/11/2018 11:22 Printed : 9/12/2018 10:12
Sample ID : 100,000 KHP CT#2854401 (# 10)
Instrument N. : Instrument #1
Analysis Type : Calibration (Area) Sample weight : 200

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	1.0000	139	4635421	mi	1.000000	

Manual Integration on 09/12/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A091118011.DAT
Sample name :ICV 37,760 KHP CT#2809390 Analysed :09/11/2018 11:27

Eager 300 Report

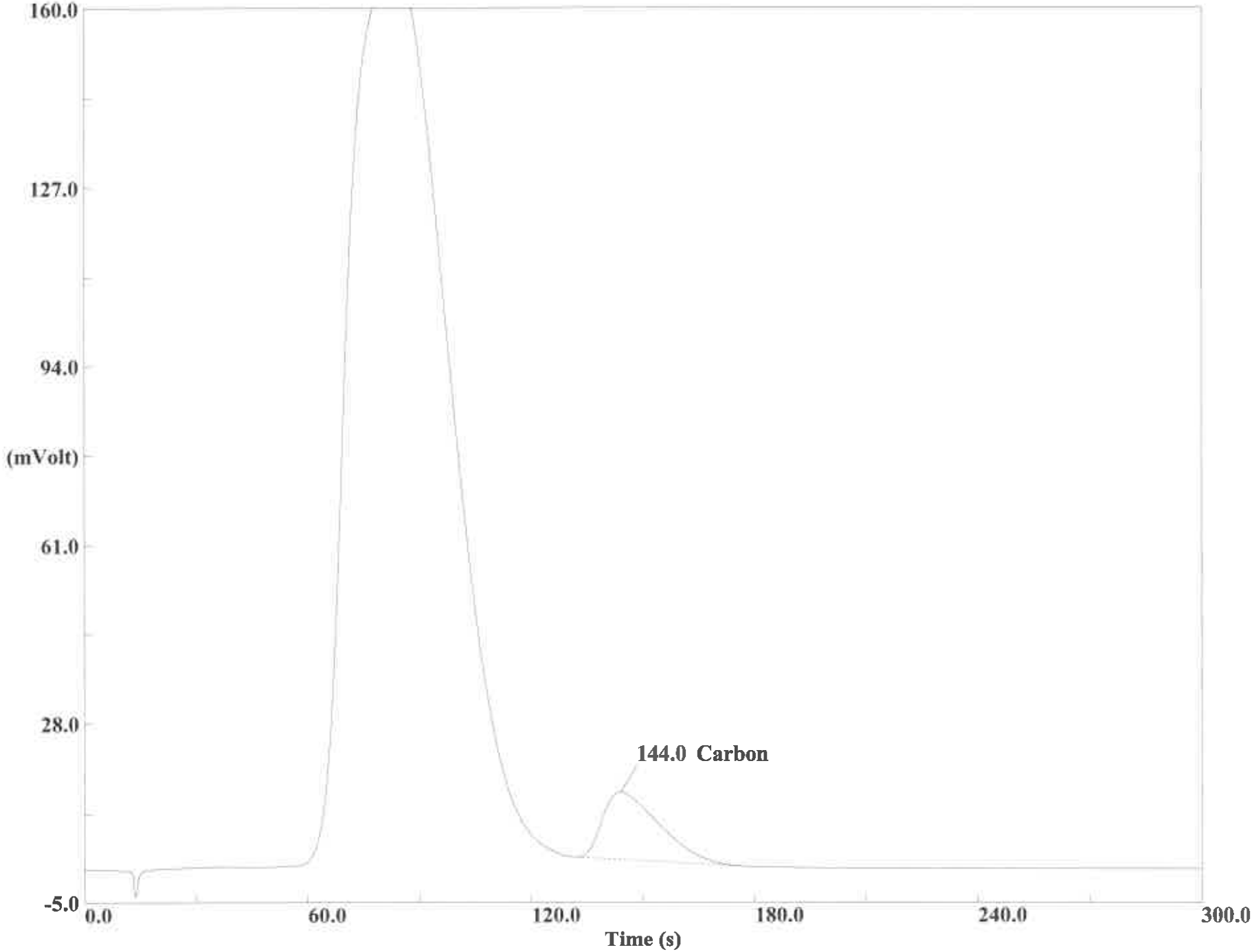
Page: 1 Sample: ICV 37,760 KHP CT#2809390 (A091118011)

Method Name : Lloyd Kahn
Method File : C:\data\January\091118ICAL.mth
Chromatogram : A091118011
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 09/11/2018 11:27 Printed : 9/12/2018 10:12
Sample ID : ICV 37,760 KHP CT#2809390 (# 11)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 10

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	3.2650	150	699735	CR	1.000000	

Manual Integration on 09/12/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A091118012.DAT
Sample name :CCV Analysed :09/11/2018 11:32

Eager 300 Report

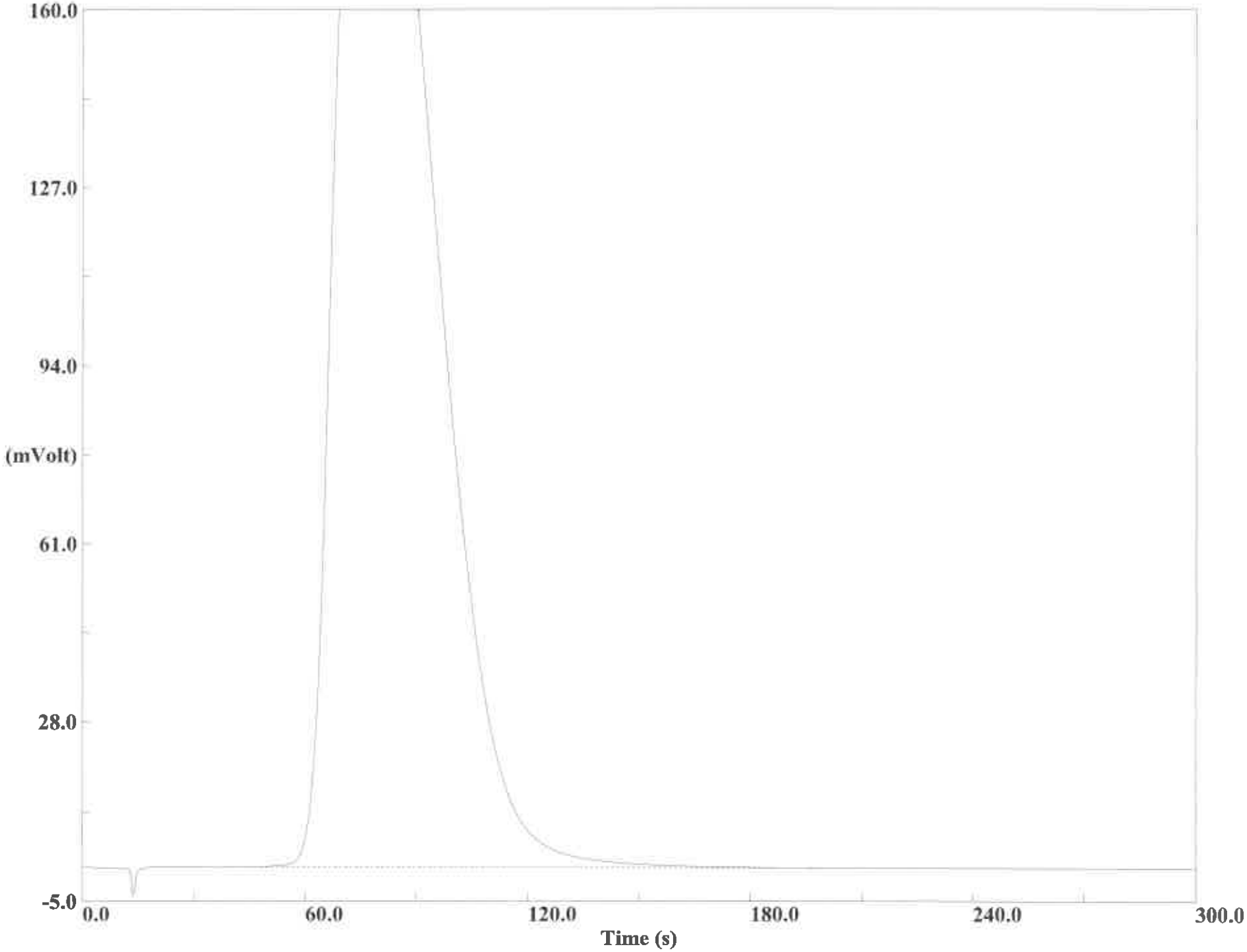
Page: 1 Sample: CCV (A091118012)

Method Name : Lloyd Kahn
Method File : C:\data\January\091118ICAL.mth
Chromatogram : A091118012
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 09/11/2018 11:32 Printed : 9/12/2018 10:12
Sample ID : CCV (# 12)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 100

Calib. method : using 'Least Squares to Linear fit'

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor
Carbon	0.9747	144	2212597	mi	1.000000	

Manual Integration on 09/12/18 by Josh Fritsch due to poor baseline draw



Filename C:\data\January\A091118013.DAT
Sample name :CCB Analysed :09/11/2018 11:37

Eager 300 Report

Page: 1 Sample: CCB (A091118013)

Method Name : Lloyd Kahn
Method File : C:\data\January\091118ICAL.mth
Chromatogram : A091118013
Operator ID : Joshua Fritsch Company Name : TestAmerica Pitt
Analysed : 09/11/2018 11:37 Printed : 9/12/2018 10:12
Sample ID : CCB (# 13)
Instrument N. : Instrument #1
Analysis Type : UnkNown (Area) Sample weight : 20

Calib. method : using 'Least Squares to Linear fit'

!!! Warning missing one or more peaks.

Element Name	%	Ret.Time	Area	BC	Area ratio	K factor

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Batch Number: 259377 Batch Start Date: 10/10/18 10:28 Batch Analyst: Smith, Abbey V

Batch Method: 3550B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
180-82446-B-1	POS-SED-S12-S1 (0-0.5')	3550B	T	GPGE3 0.1153	2.57 g	8.76 g	7.71 g		
180-82446-C-2	POS-SED-S12-S2 (5-10')	3550B	T	GPGE2 0.1156	2.57 g	9.12 g	7.64 g		
180-82446-B-3	POS-SED-R14-S1 (0-0.5')	3550B	T	GPGE1 0.1162	2.56 g	9.28 g	7.38 g		
180-82446-B-4	POS-SED-R14-S2 (5-10')	3550B	T	H6G4K 0.1212	2.53 g	8.65 g	6.80 g		
180-82446-B-4 DU	POS-SED-R14-S2 (5-10')	3550B	T	H6G2J 0.1141	2.55 g	8.68 g	6.61 g		

Batch Notes	
Balance ID	1126472457
Batch Comment	COMPLETED BY: CLL
Date and Time Samples in Desiccator	10/11/2018 04:45
Date and Time Samples out of Desiccator	10/11/2018 07:40
Date samples were placed in the oven	10/10/2018
Oven Temp In	105 Degrees C
Time samples were place in the oven	10:43
Date samples were removed from oven	10/11/2018
Oven Temp Out	103 Degrees C
Time Samples were removed from oven	04:45
Oven ID	5005
Thermometer ID	wet34
Temperature - Start - Uncorrected	105 Degrees C
Temperature - End - Uncorrected	103 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Batch Number: 259389 Batch Start Date: 10/10/18 11:06 Batch Analyst: Smith, Abbey V

Batch Method: 3550B Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
180-82446-B-5	POS-SED-L15-S1 (0-0.5')	3550B	T	H6G4E 0.1194	2.55 g	8.93 g	7.77 g		
180-82446-B-5 DU	POS-SED-L15-S1 (0-0.5')	3550B	T	H6G4I 0.1204	2.56 g	8.64 g	7.60 g		
180-82446-C-6	POS-SED-L15-S2 (5-10')	3550B	T	H6G4B 0.1194	2.56 g	8.57 g	6.37 g		

Batch Notes	
Balance ID	1126472457
Batch Comment	COMPLETED BY: CLL
Date and Time Samples in Desiccator	10/11/2018 04:45
Date and Time Samples out of Desiccator	10/11/2018 07:45
Date samples were placed in the oven	10/10/2018
Oven Temp In	105 Degrees C
Time samples were place in the oven	11:39
Date samples were removed from oven	10/11/2018
Oven Temp Out	103 Degrees C
Time Samples were removed from oven	04:45
Oven ID	5005
Thermometer ID	wet34
Temperature - Start - Uncorrected	105 Degrees C
Temperature - End - Uncorrected	103 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Batch Number: 258786 Batch Start Date: 10/03/18 13:57 Batch Analyst: Fritsch, Joshua B

Batch Method: EPA-Lloyd Kahn Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	LKTOCKHPL1 00025	LKTOCSRM 00035		
CCV 180-258786/1		EPA-Lloyd Kahn				0.1 mL			
MB 180-258786/3		EPA-Lloyd Kahn		21.55 mg	21.55 mg				
LCS 180-258786/4		EPA-Lloyd Kahn		10.9 mg	10.9 mg		10.9 mg		
180-82502-B-5 MS		EPA-Lloyd Kahn	T	20.05 mg	20.05 mg		11.25 mg		
180-82502-B-5 MSD		EPA-Lloyd Kahn	T	20.4 mg	20.4 mg		10.9 mg		
180-82502-E-5 DU		EPA-Lloyd Kahn	T	20.9 mg	20.9 mg				
CCV 180-258786/13		EPA-Lloyd Kahn				0.1 mL			
CCV 180-258786/25		EPA-Lloyd Kahn				0.1 mL			

Batch Notes	
Phosphoric Acid ID	2873888

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Pittsburgh Job No.: 180-82446-1

SDG No.:

Batch Number: 258943 Batch Start Date: 10/04/18 15:02 Batch Analyst: Fritsch, Joshua B

Batch Method: EPA-Lloyd Kahn Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	LKTOCKHPL1 00025	LKTOCSRM 00035		
CCV 180-258943/1		EPA-Lloyd Kahn				0.1 mL			
MB 180-258943/3		EPA-Lloyd Kahn		21.35 mg	21.35 mg				
LCS 180-258943/4		EPA-Lloyd Kahn		10.4 mg	10.4 mg		10.4 mg		
CCV 180-258943/13		EPA-Lloyd Kahn				0.1 mL			

Batch Notes	
Phosphoric Acid ID	2873888

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

P, HS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice) James Smyth	Samplers Name (Printed) James Smyth	Site/Project Identification Harbor Isle
Company PDC @ HI	P. O. # 27000	State (Location of site): NJ: ☐ NY: ☑ Other:
		Regulatory Program: NYSDEC BCP DKQP: ☐
Address 1750 New Highway	Analysis Turnaround Time: Standard ☑	
City Farmingdale State NY	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☐	
Phone (631) 390-3737 Fax		

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

LAB USE ONLY
Project No:
Job No:

Sample Identification	Date	Time	Matrix	No. of Cont.	GC/MS A	TOC - lead Kona	BTEX - VOC	SVOC	Sample Numbers
~~POS-Sed-S1(0-0.5')~~									
POS-Sed-S12-S1(0-0.5')	9/27	1020	Sed	7	X	X	X	X	
Pos-Sed-S12-S2(5-10')		1043							
POS-Sed-R14-S1(0-0.5')		1335							
POS-Sed-R14-S2(5-10')		1335							
Pos-Sed-L15-S1(0-0.5')		1520							
Pos-Sed-L15-S2(5-10')		1530							

180-82446 Chain of Custody

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH
6 = Other _____, 7 = Other _____

Soil:
Water:

Special Instructions NYSDEC EQUIS ; Category B Deliverables

Water Metals Filtered (Yes/No)? NO

Relinquished by	Company	Date / Time	Received by	Company
1)	Posillico	9/27 1530	1)	
2)		9/27/18 1730	2)	TAI-H 9/28/18 900
3)			3)	
4)			4)	

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

Massachusetts (M-NJ312), North Carolina (No. 578)

TAL - 0016 (0715)

Login Sample Receipt Checklist

Client: Posillico Dev Company at Harbor Isle LLC

Job Number: 180-82446-1

Login Number: 82446
List Number: 1
Creator: Say, Thomas C

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	