LONGHORN ARMY AMMUNITION PLANT KARNACK, TEXAS

ADMINISTRATIVE RECORD

Volume 3

2025

Bate Stamp Numbers
01291968 – 01293917

Prepared for

Department of the Army
Longhorn Army Ammunition Plant

1976–2025

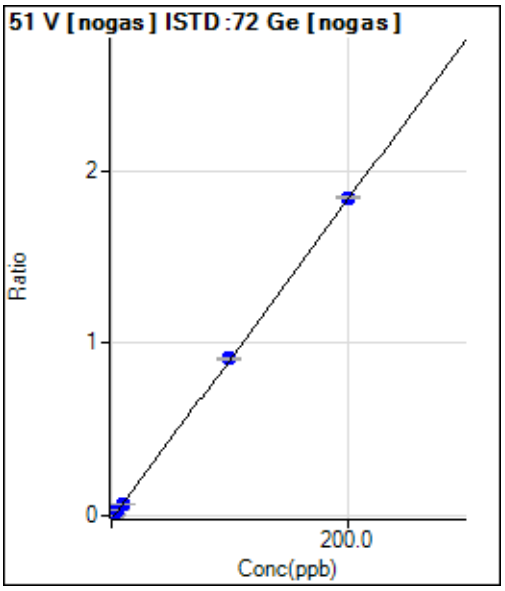
LONGHORN ARMY AMMUNITION PLANT
KARNACK, TEXAS
ADMINISTRATIVE RECORD – CHRONOLOGICAL INDEX

VOLUME 3

2025

A.	Title:	(Cont'd) Report – Appendix C labs File1 to Draft Quarterly Evaluation Report, 2nd Quarter (April–June) 2024 Groundwater Treatment Plant, Longhorn Army Ammunition Plant, Karnack, Texas
	Author(s):	PCI-Bhate JV
	Recipient:	Longhorn Army Ammunition Plant
	Date:	March 7, 2025
	Bate Stamp:	01291968–01293917

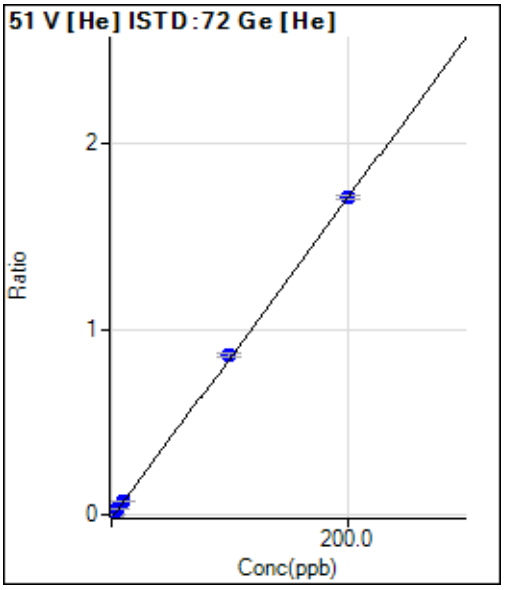
Calibration for 192_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-20552.54	-0.0157	P	-66.7	
2	☐	2.000	1.956	3356.13	0.0025	P	217.7	-2.2
3	☐	5.000	4.773	38598.53	0.0287	P	19.4	-4.5
4	☐	10.000	8.357	83718.29	0.0621	P	13.1	-16.4
5	☐	100.000	99.410	1185272.51	0.9096	P	1.1	-0.6
6	☐	200.000	200.383	2325909.37	1.8496	P	0.8	0.2
7	☐	1.000						

y = 0.0093 * x - 0.0157
R = 1.0000
DL = 3.385 ppb
BEC = -1.691 ppb

Weight: <None>
Min Conc: <None>

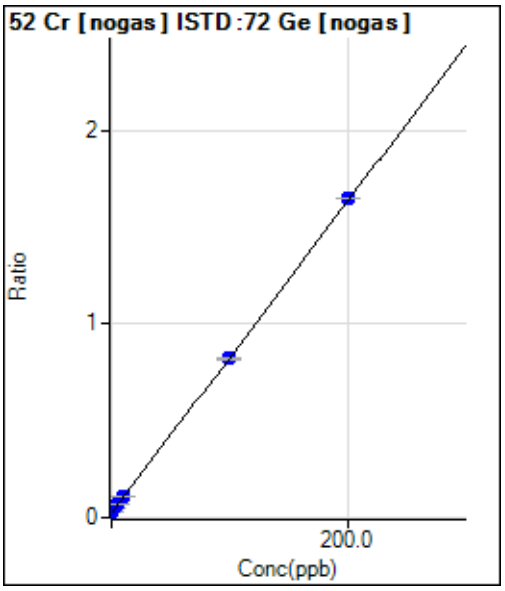


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-4135.60	-0.0102	P	-24.3	
2	☐	2.000	1.409	812.11	0.0020	P	141.0	-29.5
3	☐	5.000	4.701	12415.43	0.0304	P	10.7	-6.0
4	☐	10.000	9.542	29223.59	0.0723	P	9.9	-4.6
5	☐	100.000	100.534	333831.34	0.8589	P	2.7	0.5
6	☐	200.000	199.769	658306.90	1.7168	P	1.4	-0.1
7	☐	1.000						

y = 0.0086 * x - 0.0102
R = 1.0000
DL = 0.8611 ppb
BEC = -1.184 ppb

Weight: <None>
Min Conc: <None>

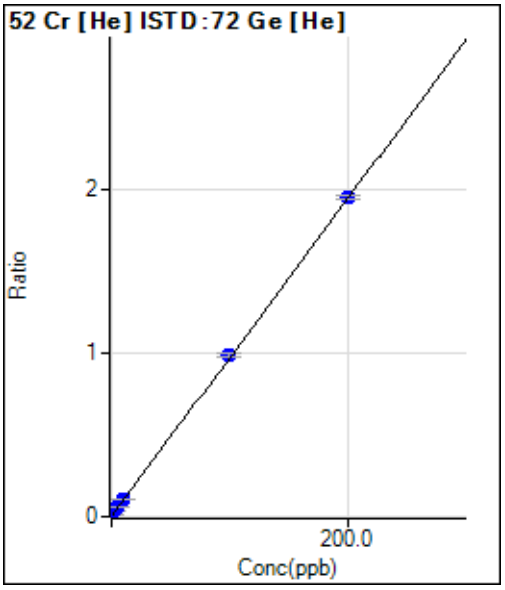
Calibration for 192_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	40848.92	0.0313	P	0.7	
2	☐	2.000	1.950	63690.65	0.0470	P	2.4	-2.5
3	☐	5.000	5.023	96506.79	0.0717	P	1.1	0.5
4	☐	10.000	10.047	151316.81	0.1122	P	1.9	0.5
5	☐	100.000	98.427	1073434.20	0.8238	P	1.2	-1.6
6	☐	200.000	200.784	2072339.87	1.6480	P	0.4	0.4
7	☐	1.000						

y = 0.0081 * x + 0.0313
R = 1.0000
DL = 0.08161 ppb
BEC = 3.887 ppb

Weight: <None>
Min Conc: <None>

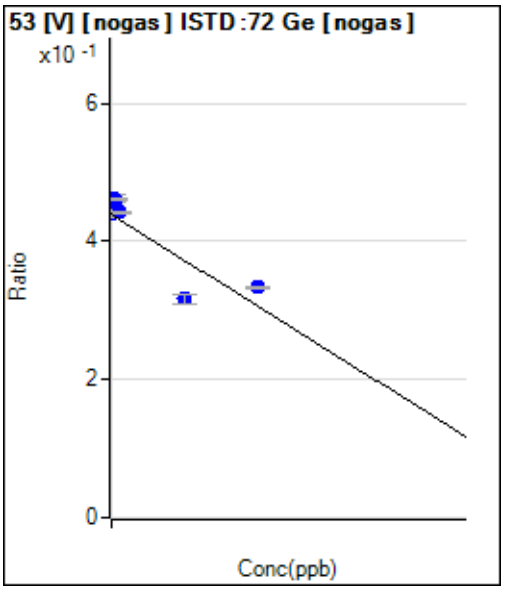


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5414.39	0.0134	P	6.7	
2	☐	2.000	1.998	13603.04	0.0328	P	1.1	-0.1
3	☐	5.000	4.992	25254.72	0.0619	P	0.8	-0.2
4	☐	10.000	9.885	44258.40	0.1094	P	2.2	-1.1
5	☐	100.000	100.385	384097.46	0.9882	P	2.4	0.4
6	☐	200.000	199.813	749135.40	1.9537	P	1.2	-0.1
7	☐	1.000						

y = 0.0097 * x + 0.0134
R = 1.0000
DL = 0.2771 ppb
BEC = 1.38 ppb

Weight: <None>
Min Conc: <None>

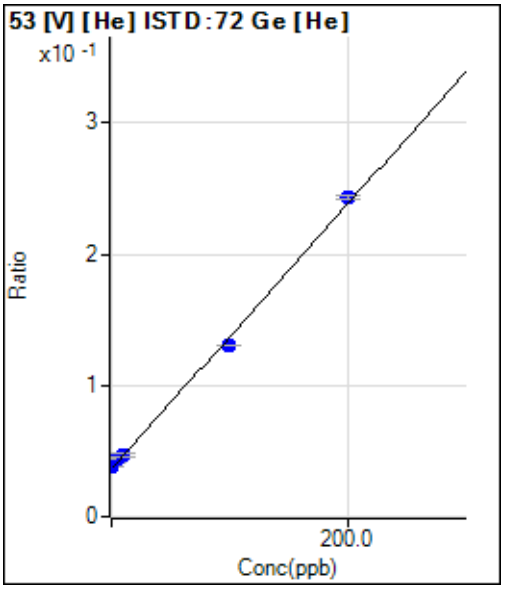
Calibration for 192_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	573000.80	0.4390	P	2.6	
2	☐	2.000	-35.683	626815.20	0.4626	P	2.8	-1884.
3	☐	5.000	-32.085	619099.42	0.4602	P	0.6	-741.7
4	☐	10.000	-5.092	596582.63	0.4424	P	0.5	-150.9
5	☐	100.000	184.674	412739.81	0.3167	P	4.3	84.7
6	☐	200.000	159.722	419061.60	0.3333	P	0.8	-20.1
7	☐	1.000						

y = -6.6197E-004 * x + 0.4390
R = -0.8789
DL = -50.89 ppb
BEC = -663.1 ppb

Weight: <None>
Min Conc: <None>

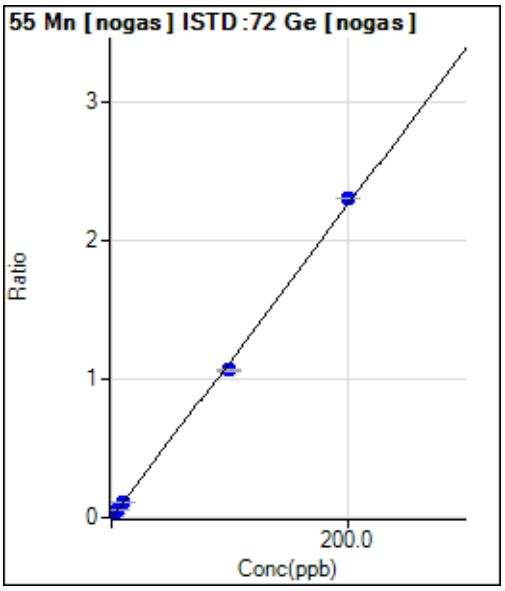


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	15237.95	0.0377	P	1.4	
2	☐	2.000	4.554	17537.05	0.0423	P	3.7	127.7
3	☐	5.000	6.734	18161.14	0.0445	P	3.8	34.7
4	☐	10.000	9.180	19002.20	0.0470	P	5.8	-8.2
5	☐	100.000	92.135	50761.97	0.1306	P	0.7	-7.9
6	☐	200.000	203.905	93269.97	0.2432	P	1.4	2.0
7	☐	1.000						

y = 0.0010 * x + 0.0377
R = 0.9987
DL = 1.566 ppb
BEC = 37.41 ppb

Weight: <None>
Min Conc: <None>

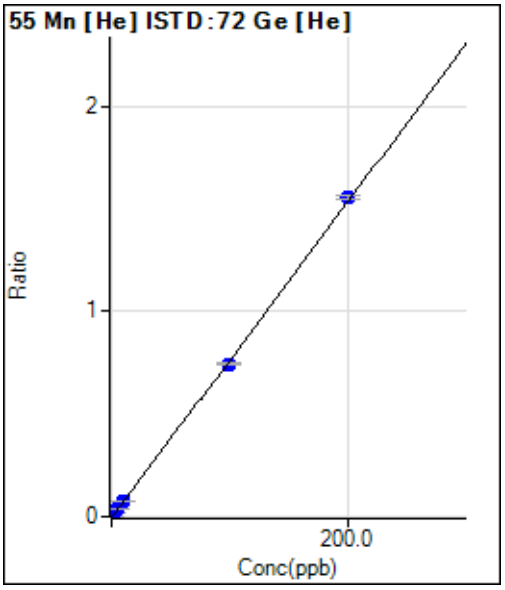
Calibration for 192_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	11688.06	0.0090	P	0.6	
2	☐	2.000	1.737	38729.84	0.0286	P	2.6	-13.1
3	☐	5.000	4.527	80839.18	0.0601	P	0.2	-9.5
4	☐	10.000	9.333	154264.47	0.1144	P	1.9	-6.7
5	☐	100.000	93.651	1390234.51	1.0669	P	1.1	-6.3
6	☐	200.000	203.222	2898271.31	2.3047	P	0.4	1.6
7	☐	1.000						

y = 0.0113 * x + 0.0090
R = 0.9993
DL = 0.01311 ppb
BEC = 0.7927 ppb

Weight: <None>
Min Conc: <None>

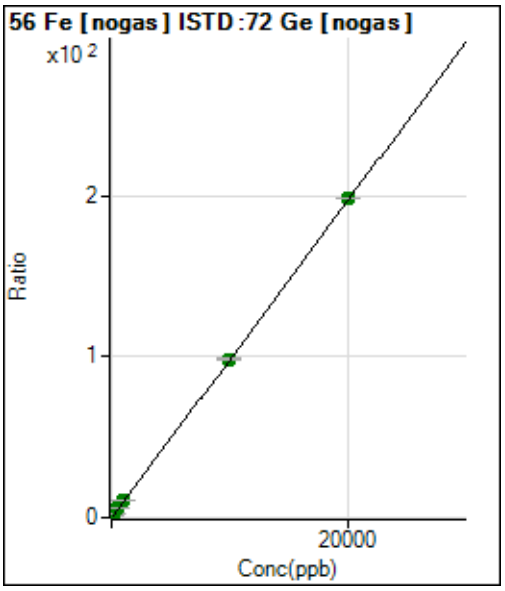


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	763.37	0.0019	P	16.7	
2	☐	2.000	1.976	7098.47	0.0171	P	3.3	-1.2
3	☐	5.000	4.688	15521.51	0.0380	P	3.5	-6.2
4	☐	10.000	9.683	30962.05	0.0765	P	1.1	-3.2
5	☐	100.000	96.294	289253.62	0.7441	P	1.2	-3.7
6	☐	200.000	201.877	597405.71	1.5580	P	1.5	0.9
7	☐	1.000						

y = 0.0077 * x + 0.0019
R = 0.9998
DL = 0.1229 ppb
BEC = 0.2451 ppb

Weight: <None>
Min Conc: <None>

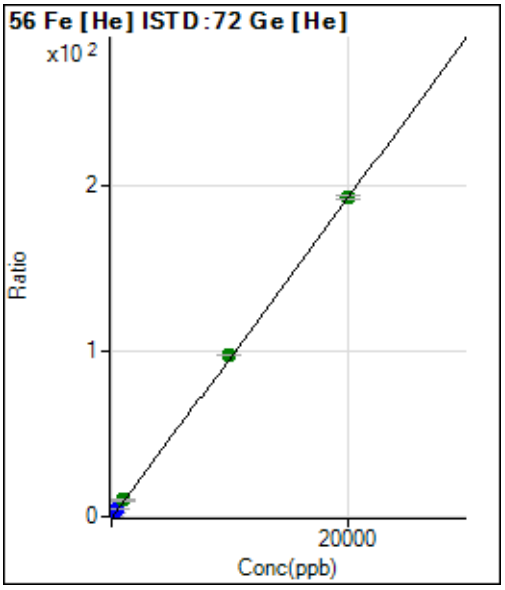
Calibration for 192_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	983360.45	0.7534	P	0.8	
2	☐	200.000	205.904	3775642.55	2.7863	A	1.4	3.0
3	☐	500.000	502.244	7683827.39	5.7120	A	1.1	0.4
4	☐	1000.000	1010.510	14471192.70	10.7301	A	0.8	1.1
5	☐	10000.00	9893.141	128252968.0	98.4275	A	0.8	-1.1
6	☐	20000.00	20052.78	249906476.2	198.732	A	0.5	0.3
7	☐	100.000						

y = 0.0099 * x + 0.7534
R = 1.0000
DL = 1.742 ppb
BEC = 76.31 ppb

Weight: <None>
Min Conc: <None>

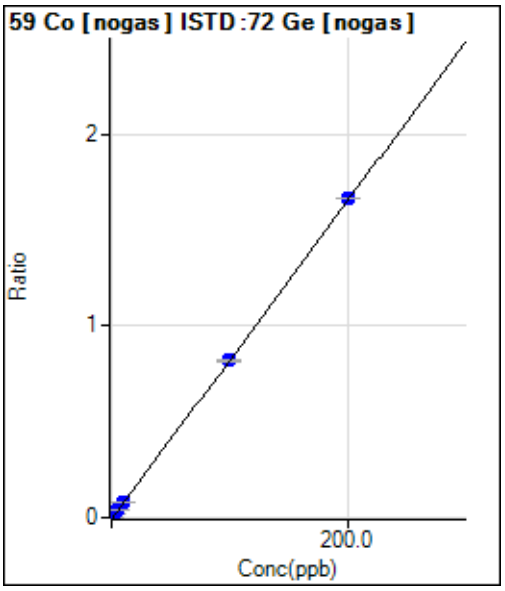


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16208.91	0.0401	P	4.9	
2	☐	200.000	177.701	729921.32	1.7604	P	1.1	-11.1
3	☐	500.000	445.578	1777080.13	4.3536	P	0.1	-10.9
4	☐	1000.000	1021.924	4018348.17	9.9329	A	1.4	2.2
5	☐	10000.00	10089.94	37983445.27	97.7166	A	1.0	0.9
6	☐	20000.00	19955.51	74088145.56	193.221	A	1.6	-0.2
7	☐	100.000						

y = 0.0097 * x + 0.0401
R = 1.0000
DL = 0.6077 ppb
BEC = 4.143 ppb

Weight: <None>
Min Conc: <None>

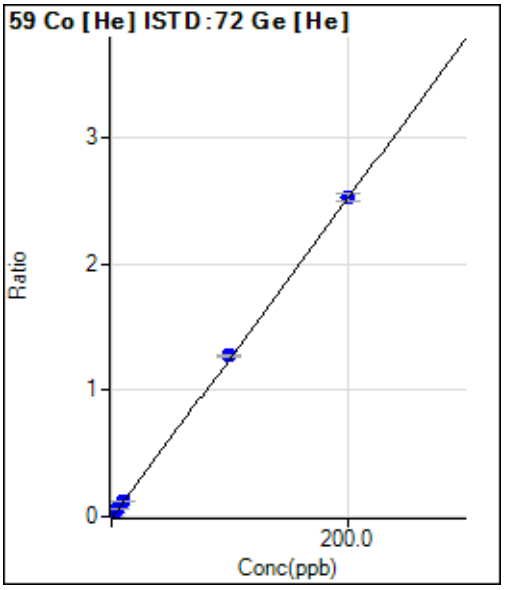
Calibration for 192_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	283.34	0.0002	P	12.7	
2	☐	2.000	1.997	22757.46	0.0168	P	2.8	-0.2
3	☐	5.000	4.978	55897.02	0.0416	P	0.7	-0.4
4	☐	10.000	9.944	111658.54	0.0828	P	1.4	-0.6
5	☐	100.000	99.021	1071649.59	0.8224	P	1.2	-1.0
6	☐	200.000	200.493	2093785.18	1.6650	P	0.4	0.2
7	☐	1.000						

y = 0.0083 * x + 2.1714E-004
R = 1.0000
DL = 0.00994 ppb
BEC = 0.02615 ppb

Weight: <None>
Min Conc: <None>

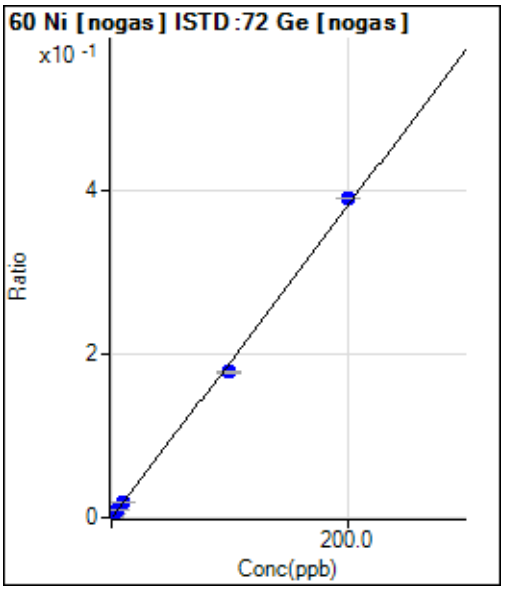


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	100.00	0.0002	P	26.4	
2	☐	2.000	2.021	10707.35	0.0258	P	2.6	1.0
3	☐	5.000	4.990	25879.19	0.0634	P	3.6	-0.2
4	☐	10.000	10.036	51484.75	0.1273	P	1.2	0.4
5	☐	100.000	100.513	494566.03	1.2723	P	1.1	0.5
6	☐	200.000	199.742	969382.53	2.5282	P	1.8	-0.1
7	☐	1.000						

y = 0.0127 * x + 2.4744E-004
R = 1.0000
DL = 0.0155 ppb
BEC = 0.01955 ppb

Weight: <None>
Min Conc: <None>

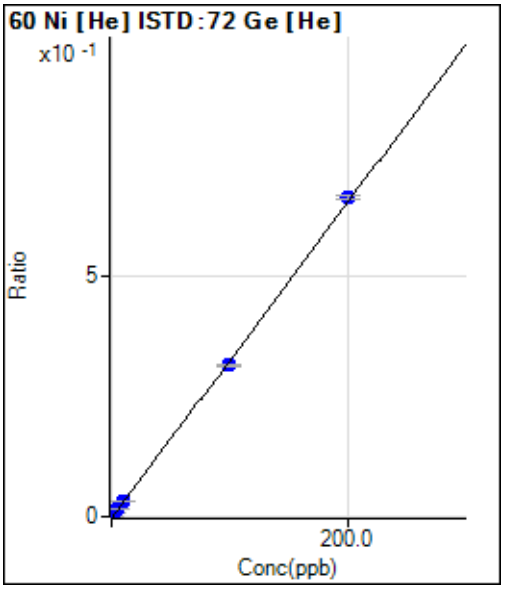
Calibration for 192_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1536.78	0.0012	P	14.0	
2	☐	2.000	2.079	6965.05	0.0051	P	4.1	4.0
3	☐	5.000	4.699	13633.04	0.0101	P	1.0	-6.0
4	☐	10.000	9.488	25979.35	0.0193	P	2.0	-5.1
5	☐	100.000	92.481	231249.55	0.1775	P	0.5	-7.5
6	☐	200.000	203.792	490003.42	0.3897	P	0.6	1.9
7	☐	1.000						

y = 0.0019 * x + 0.0012
R = 0.9990
DL = 0.2596 ppb
BEC = 0.6173 ppb

Weight: <None>
Min Conc: <None>

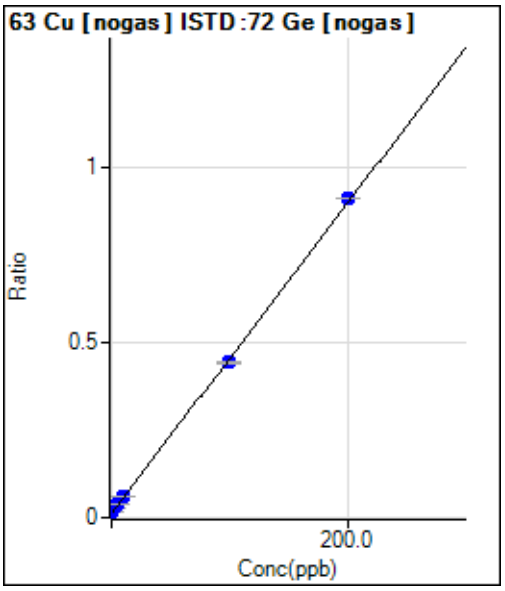


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	93.33	0.0002	P	12.4	
2	☐	2.000	2.012	2826.99	0.0068	P	12.5	0.6
3	☐	5.000	4.971	6734.98	0.0165	P	2.5	-0.6
4	☐	10.000	9.842	13122.65	0.0324	P	3.8	-1.6
5	☐	100.000	95.622	121729.28	0.3132	P	1.5	-4.4
6	☐	200.000	202.198	253826.12	0.6619	P	1.6	1.1
7	☐	1.000						

y = 0.0033 * x + 2.3096E-004
R = 0.9997
DL = 0.02619 ppb
BEC = 0.07058 ppb

Weight: <None>
Min Conc: <None>

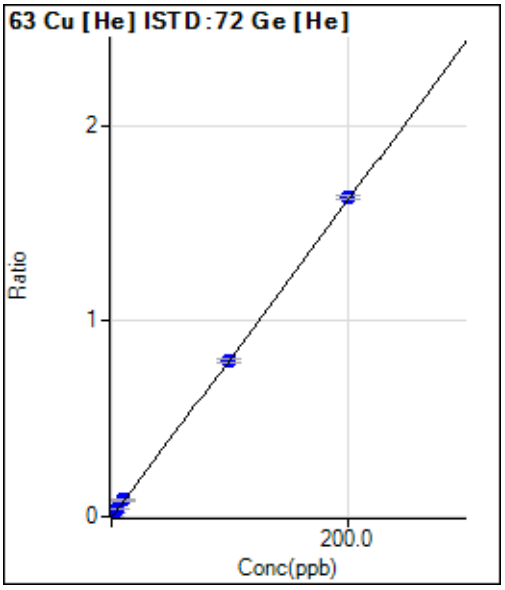
Calibration for 192_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	22226.68	0.0170	P	2.4	
2	☐	2.000	1.998	35101.44	0.0259	P	2.9	-0.1
3	☐	5.000	5.185	53896.91	0.0401	P	1.9	3.7
4	☐	10.000	10.194	84044.21	0.0623	P	2.5	1.9
5	☐	100.000	96.334	579888.89	0.4450	P	1.3	-3.7
6	☐	200.000	201.818	1148978.03	0.9137	P	0.6	0.9
7	☐	1.000						

y = 0.0044 * x + 0.0170
R = 0.9998
DL = 0.2743 ppb
BEC = 3.833 ppb

Weight: <None>
Min Conc: <None>

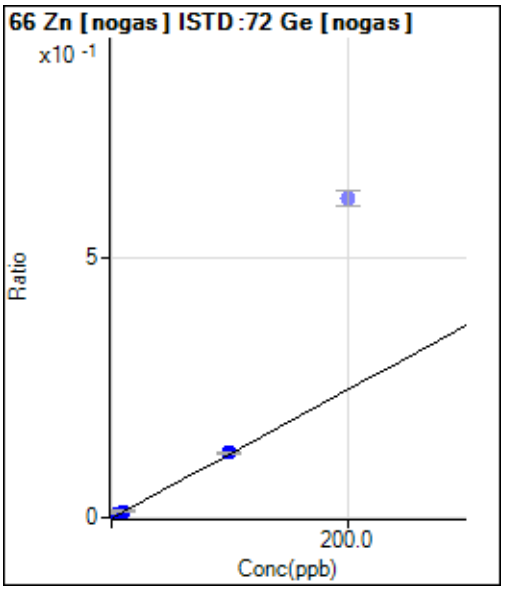


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	716.69	0.0018	P	11.2	
2	☐	2.000	1.881	7065.09	0.0170	P	4.4	-6.0
3	☐	5.000	4.729	16392.50	0.0402	P	1.6	-5.4
4	☐	10.000	10.090	33848.42	0.0837	P	1.1	0.9
5	☐	100.000	98.024	309930.85	0.7973	P	1.6	-2.0
6	☐	200.000	200.992	626171.40	1.6330	P	1.5	0.5
7	☐	1.000						

y = 0.0081 * x + 0.0018
R = 0.9999
DL = 0.07324 ppb
BEC = 0.2185 ppb

Weight: <None>
Min Conc: <None>

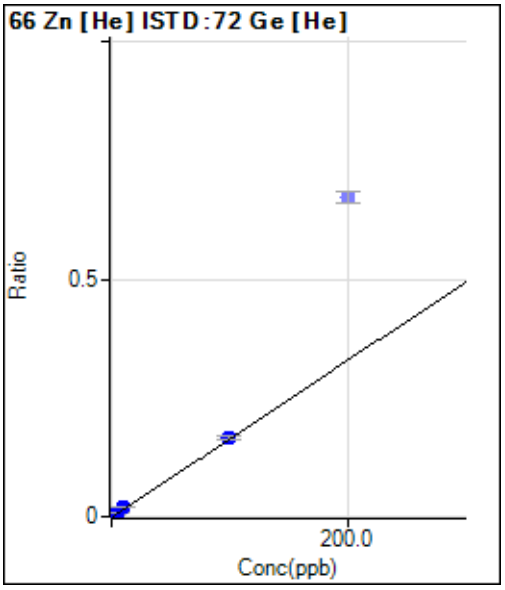
Calibration for 192_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1106.73	0.0008	P	7.2	
2	☐	2.000	2.044	4570.78	0.0034	P	4.4	2.2
3	☐	5.000	4.868	9229.68	0.0069	P	6.3	-2.6
4	☐	10.000	9.630	17186.85	0.0127	P	4.8	-3.7
5	☐	100.000	100.043	162169.96	0.1245	P	1.2	0.0
6	☑	200.000		773301.86	0.6150	P	4.5	
7	☐	1.000						

y = 0.0012 * x + 8.4776E-004
R = 1.0000
DL = 0.1487 ppb
BEC = 0.6861 ppb

Weight: <None>
Min Conc: <None>

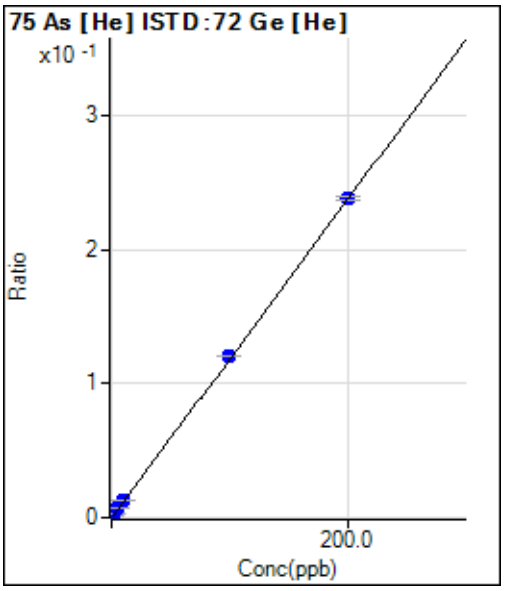


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	423.35	0.0010	P	16.0	
2	☐	2.000	1.967	1780.14	0.0043	P	4.5	-1.7
3	☐	5.000	4.993	3790.54	0.0093	P	6.0	-0.1
4	☐	10.000	10.560	7475.31	0.0185	P	1.8	5.6
5	☐	100.000	99.945	64515.82	0.1660	P	3.2	-0.1
6	☑	200.000		257816.63	0.6723	P	4.1	
7	☐	1.000						

y = 0.0017 * x + 0.0010
R = 1.0000
DL = 0.3055 ppb
BEC = 0.6347 ppb

Weight: <None>
Min Conc: <None>

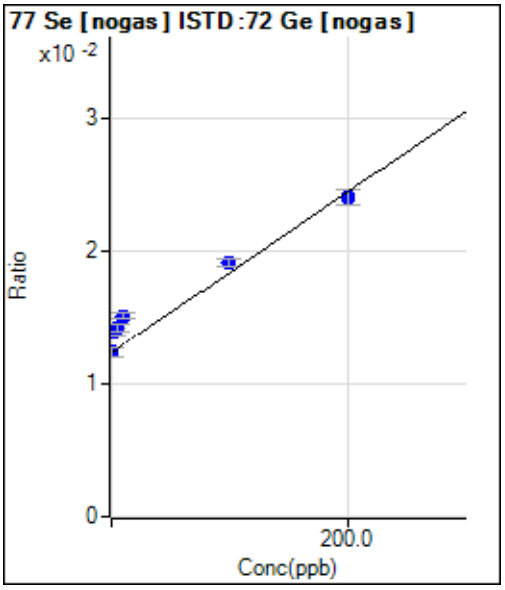
Calibration for 192_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	338.90	0.0008	P	8.2	
2	☐	2.000	1.948	1307.84	0.0032	P	5.0	-2.6
3	☐	5.000	4.862	2702.48	0.0066	P	4.0	-2.8
4	☐	10.000	9.838	5072.00	0.0125	P	0.2	-1.6
5	☐	100.000	100.932	46981.58	0.1209	P	0.3	0.9
6	☐	200.000	199.546	91309.90	0.2381	P	0.7	-0.2
7	☐	1.000						

y = 0.0012 * x + 8.3855E-004
R = 1.0000
DL = 0.1732 ppb
BEC = 0.7052 ppb

Weight: <None>
Min Conc: <None>

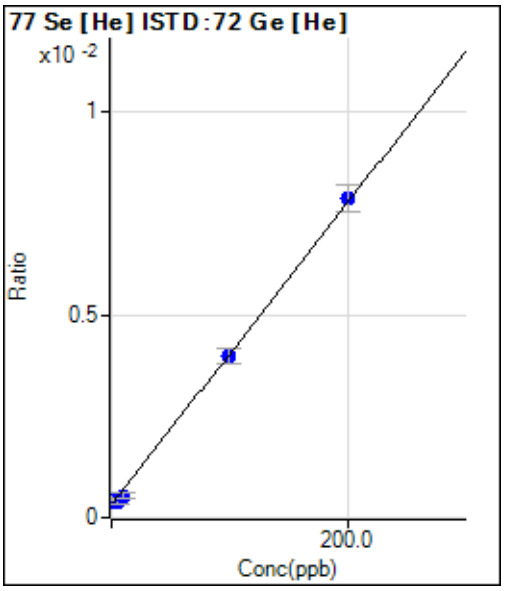


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16235.73	0.0124	P	5.6	
2	☐	2.000	25.020	18908.95	0.0140	P	4.1	1151.0
3	☐	5.000	29.845	19165.93	0.0142	P	4.3	496.9
4	☐	10.000	44.768	20434.35	0.0152	P	2.9	347.7
5	☐	100.000	110.727	24954.64	0.0192	P	2.7	10.7
6	☐	200.000	192.047	30284.64	0.0241	P	4.9	-4.0
7	☐	1.000						

y = 6.0624E-005 * x + 0.0124
R = 0.9861
DL = 34.45 ppb
BEC = 205.2 ppb

Weight: <None>
Min Conc: <None>

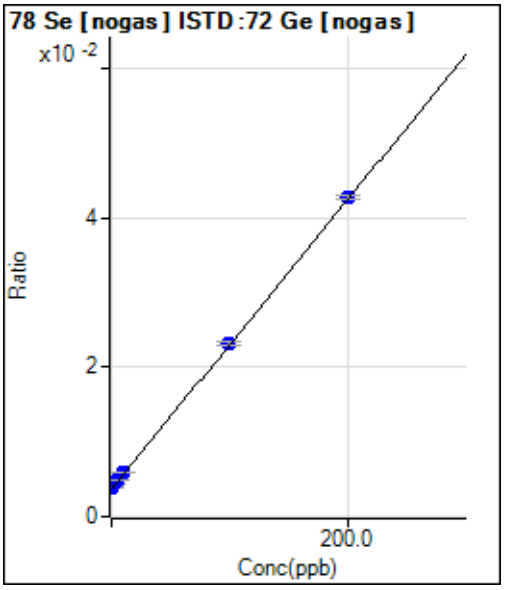
Calibration for 192_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	146.67	0.0004	P	14.0	
2	☐	2.000	2.343	186.67	0.0005	P	24.8	17.2
3	☐	5.000	0.128	150.00	0.0004	P	23.5	-97.4
4	☐	10.000	4.855	220.01	0.0005	P	20.8	-51.4
5	☐	100.000	97.432	1553.44	0.0040	P	10.3	-2.6
6	☐	200.000	201.659	3020.36	0.0079	P	8.0	0.8
7	☐	1.000						

y = 3.7278E-005 * x + 3.6288E-004
R = 0.9995
DL = 4.085 ppb
BEC = 9.734 ppb

Weight: <None>
Min Conc: <None>

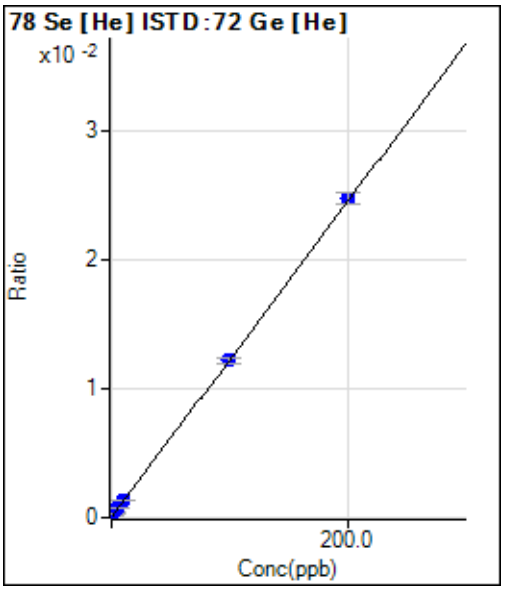


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5110.98	0.0039	P	6.1	
2	☐	2.000	2.539	5971.31	0.0044	P	2.6	27.0
3	☐	5.000	5.265	6638.24	0.0049	P	3.4	5.3
4	☐	10.000	10.367	7988.94	0.0059	P	0.5	3.7
5	☐	100.000	99.063	30110.94	0.0231	P	2.6	-0.9
6	☐	200.000	200.438	53760.66	0.0428	P	0.7	0.2
7	☐	1.000						

y = 1.9375E-004 * x + 0.0039
R = 1.0000
DL = 3.706 ppb
BEC = 20.21 ppb

Weight: <None>
Min Conc: <None>

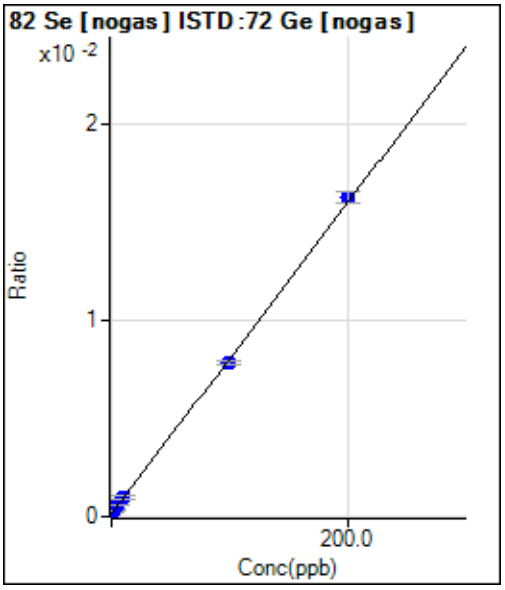
Calibration for 192_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	66.00	0.0002	P	12.4	
2	☐	2.000	1.910	164.67	0.0004	P	19.1	-4.5
3	☐	5.000	4.787	306.00	0.0007	P	2.5	-4.3
4	☐	10.000	9.911	557.34	0.0014	P	4.3	-0.9
5	☐	100.000	98.156	4736.10	0.0122	P	4.1	-1.8
6	☐	200.000	200.933	9499.05	0.0248	P	3.1	0.5
7	☐	1.000						

y = 1.2249E-004 * x + 1.6336E-004
R = 0.9999
DL = 0.4951 ppb
BEC = 1.334 ppb

Weight: <None>
Min Conc: <None>

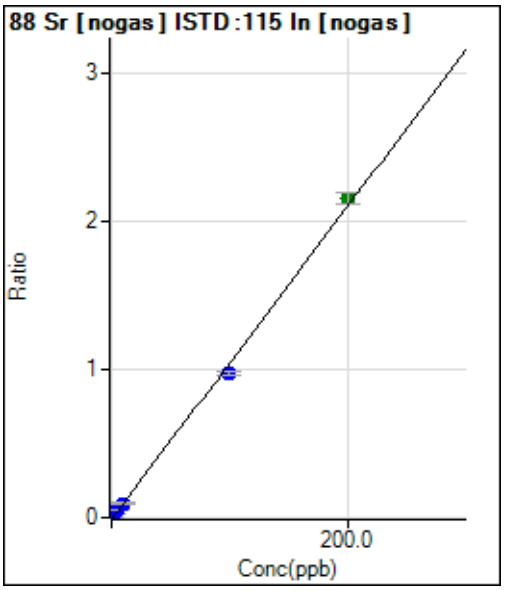


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	296.68	0.0002	P	13.1	
2	☐	2.000	1.227	440.02	0.0003	P	17.2	-38.6
3	☐	5.000	4.324	766.70	0.0006	P	6.5	-13.5
4	☐	10.000	9.357	1306.75	0.0010	P	19.0	-6.4
5	☐	100.000	95.578	10167.01	0.0078	P	2.1	-4.4
6	☐	200.000	202.268	20447.78	0.0163	P	4.0	1.1
7	☐	1.000						

y = 7.9261E-005 * x + 2.2719E-004
R = 0.9997
DL = 1.125 ppb
BEC = 2.866 ppb

Weight: <None>
Min Conc: <None>

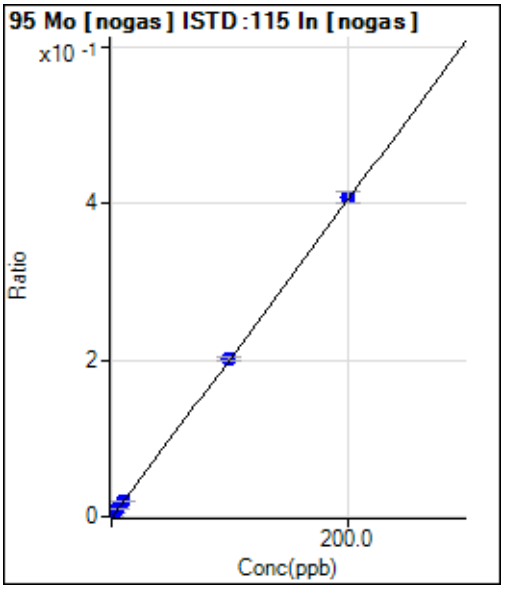
Calibration for 192_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1170.07	0.0007	P	11.0	
2	☐	2.000	1.833	34373.67	0.0201	P	2.2	-8.3
3	☐	5.000	4.526	82724.68	0.0485	P	2.9	-9.5
4	☐	10.000	9.109	163760.88	0.0969	P	3.3	-8.9
5	☐	100.000	92.245	1606700.86	0.9755	P	2.6	-7.8
6	☐	200.000	203.936	3461114.85	2.1557	A	3.2	2.0
7	☐	1.000						

y = 0.0106 * x + 6.9341E-004
R = 0.9990
DL = 0.02166 ppb
BEC = 0.06562 ppb

Weight: <None>
Min Conc: <None>

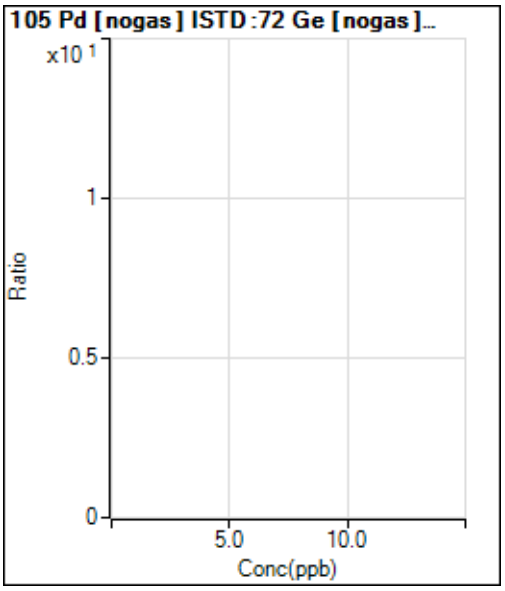


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	246.67	0.0001	P	39.2	
2	☐	2.000	1.928	6971.77	0.0041	P	7.0	-3.6
3	☐	5.000	4.662	16429.40	0.0096	P	4.0	-6.8
4	☐	10.000	9.768	33839.22	0.0200	P	2.0	-2.3
5	☐	100.000	98.794	331474.54	0.2013	P	3.0	-1.2
6	☐	200.000	200.624	655942.17	0.4086	P	3.3	0.3
7	☐	1.000						

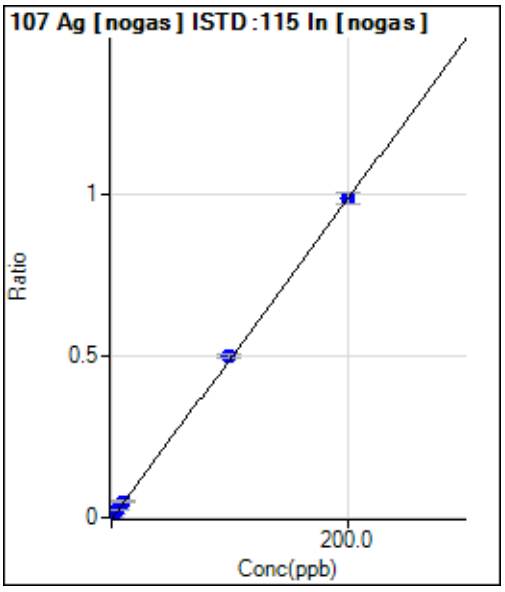
y = 0.0020 * x + 1.4612E-004
R = 1.0000
DL = 0.08448 ppb
BEC = 0.07178 ppb

Weight: <None>
Min Conc: <None>

Calibration for 192_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000						
2	☐	2.000						
3	☐	5.000						
4	☐	10.000						
5	☐	100.000						
6	☐	200.000						
7	☐	1.000						

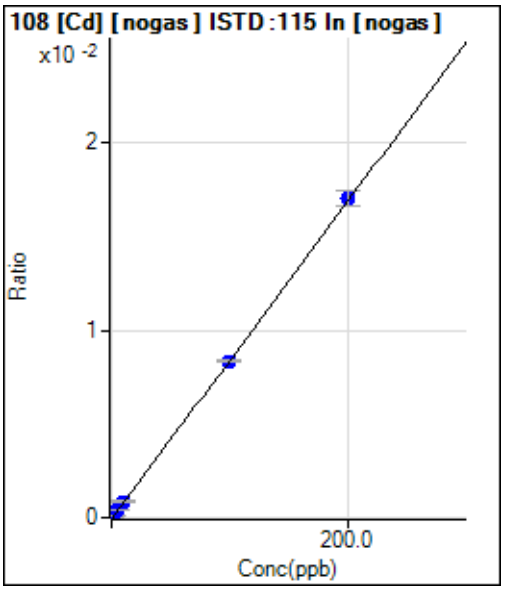


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	126.67	0.0001	P	44.8	
2	☐	2.000	2.032	17363.92	0.0101	P	6.8	1.6
3	☐	5.000	5.003	42388.73	0.0249	P	3.9	0.1
4	☐	10.000	10.176	85309.12	0.0505	P	2.6	1.8
5	☐	100.000	101.062	824994.21	0.5009	P	2.8	1.1
6	☐	200.000	199.460	1587096.90	0.9885	P	3.1	-0.3
7	☐	1.000						

y = 0.0050 * x + 7.5063E-005
R = 1.0000
DL = 0.02036 ppb
BEC = 0.01515 ppb

Weight: <None>
Min Conc: <None>

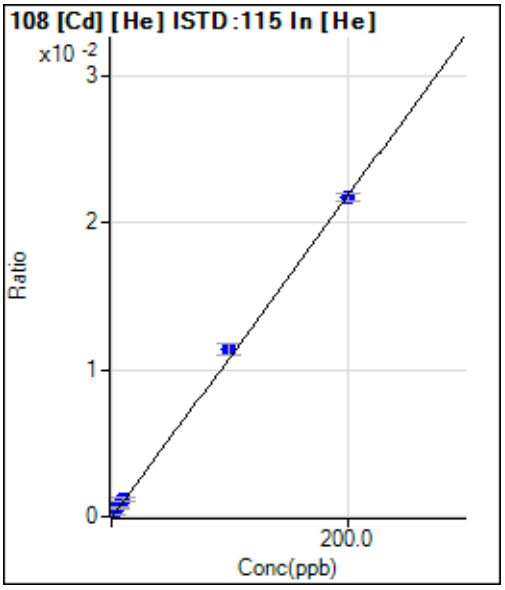
Calibration for 192_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13.33	0.0000	P	43.2	
2	☐	2.000	1.511	233.34	0.0001	P	24.8	-24.4
3	☐	5.000	4.462	660.03	0.0004	P	6.1	-10.8
4	☐	10.000	10.132	1466.77	0.0009	P	5.9	1.3
5	☐	100.000	98.237	13760.08	0.0083	P	1.6	-1.8
6	☐	200.000	200.893	27396.07	0.0171	P	5.3	0.4
7	☐	1.000						

y = 8.4913E-005 * x + 7.8994E-006
R = 0.9999
DL = 0.1204 ppb
BEC = 0.09303 ppb

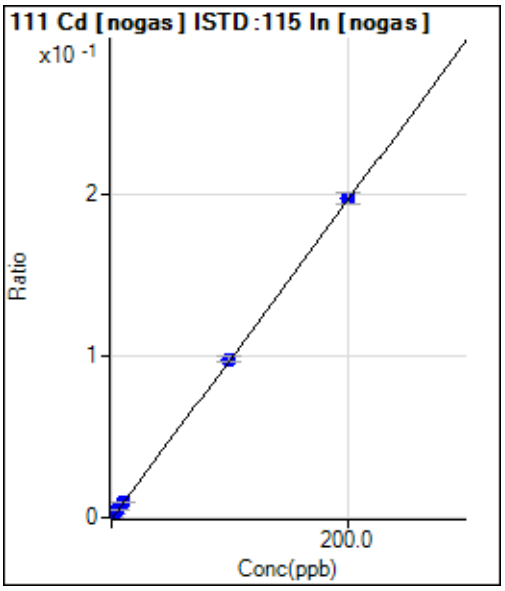
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	0.00	0.0000	P		
2	☐	2.000	1.420	100.00	0.0002	P	44.4	-29.0
3	☐	5.000	5.440	383.35	0.0006	P	21.3	8.8
4	☐	10.000	10.708	740.03	0.0012	P	12.9	7.1
5	☐	100.000	103.806	6871.74	0.0114	P	6.2	3.8
6	☐	200.000	198.057	13046.09	0.0217	P	2.7	-1.0
7	☐	1.000						

y = 1.0969E-004 * x + 0.0000E+000
R = 0.9997
DL = 0 ppb
BEC = 0 ppb

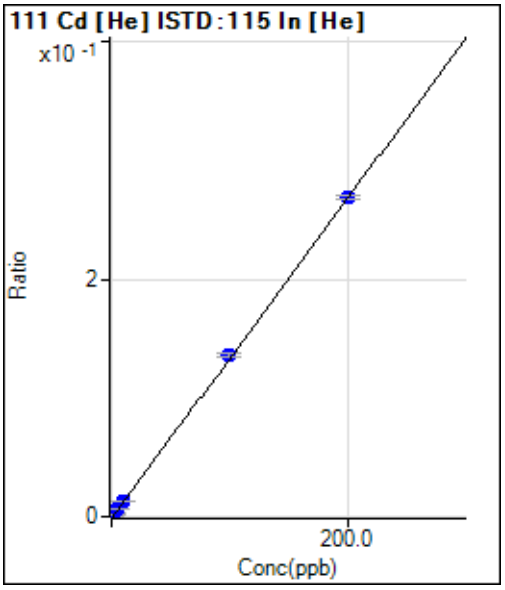
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5.69	0.0000	P	369.4	
2	☐	2.000	2.132	3606.88	0.0021	P	6.1	6.6
3	☐	5.000	4.835	8134.61	0.0048	P	7.5	-3.3
4	☐	10.000	10.053	16758.04	0.0099	P	2.8	0.5
5	☐	100.000	99.437	161546.48	0.0981	P	3.5	-0.6
6	☐	200.000	200.282	317197.88	0.1976	P	3.5	0.1
7	☐	1.000						

y = 9.8645E-004 * x + 3.3929E-006
R = 1.0000
DL = 0.03812 ppb
BEC = 0.00344 ppb

Weight: <None>
Min Conc: <None>

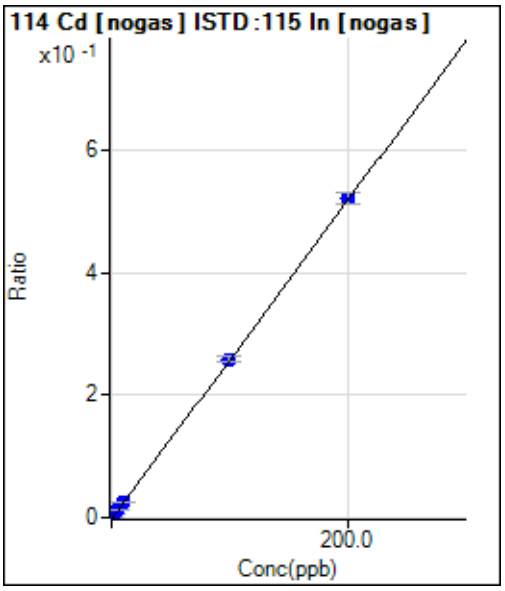


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3.33	0.0000	P	173.2	
2	☐	2.000	1.769	1539.50	0.0024	P	12.0	-11.5
3	☐	5.000	4.689	4069.45	0.0063	P	6.2	-6.2
4	☐	10.000	9.933	8442.36	0.0134	P	4.0	-0.7
5	☐	100.000	100.991	82175.06	0.1362	P	1.4	1.0
6	☐	200.000	199.518	161572.41	0.2690	P	0.9	-0.2
7	☐	1.000						

y = 0.0013 * x + 5.1941E-006
R = 1.0000
DL = 0.02002 ppb
BEC = 0.003852 ppb

Weight: <None>
Min Conc: <None>

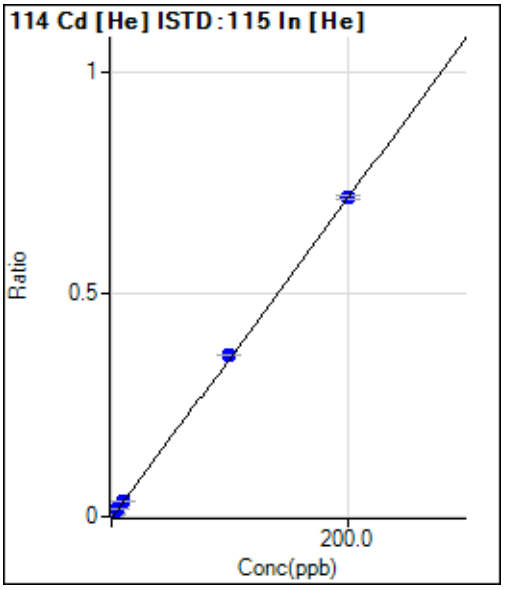
Calibration for 192_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	100.00	0.0001	P	30.2	
2	☐	2.000	1.956	8849.59	0.0052	P	2.8	-2.2
3	☐	5.000	4.924	22000.37	0.0129	P	4.4	-1.5
4	☐	10.000	9.893	43692.75	0.0259	P	3.7	-1.1
5	☐	100.000	99.481	427434.50	0.2596	P	4.0	-0.5
6	☐	200.000	200.267	838902.77	0.5225	P	3.0	0.1
7	☐	1.000						

y = 0.0026 * x + 5.9292E-005
R = 1.0000
DL = 0.0206 ppb
BEC = 0.02273 ppb

Weight: <None>
Min Conc: <None>

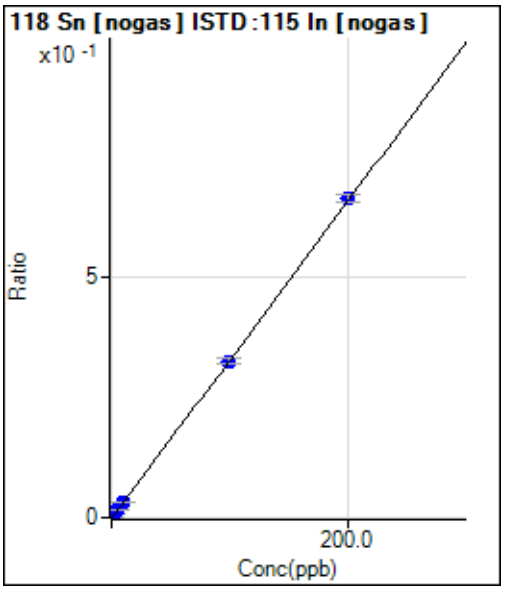


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	33.33	0.0001	P	45.9	
2	☐	2.000	1.848	4317.39	0.0067	P	7.4	-7.6
3	☐	5.000	4.774	11094.45	0.0172	P	1.4	-4.5
4	☐	10.000	9.941	22587.82	0.0358	P	3.5	-0.6
5	☐	100.000	100.937	219345.59	0.3635	P	0.9	0.9
6	☐	200.000	199.542	431584.84	0.7186	P	0.9	-0.2
7	☐	1.000						

y = 0.0036 * x + 5.1873E-005
R = 1.0000
DL = 0.01982 ppb
BEC = 0.01441 ppb

Weight: <None>
Min Conc: <None>

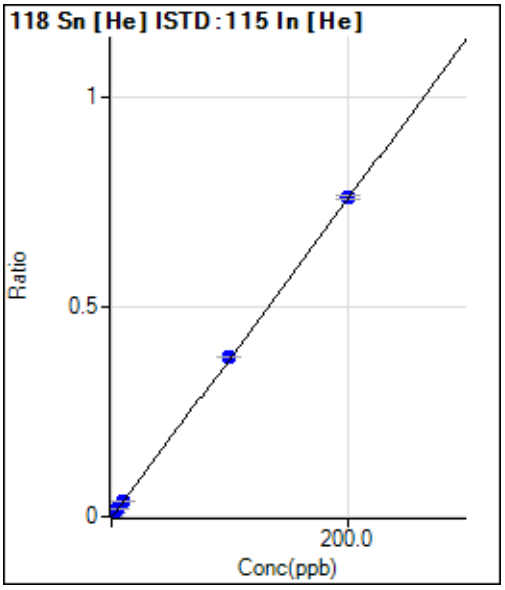
Calibration for 192_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1856.82	0.0011	P	14.2	
2	☐	2.000	1.828	12242.07	0.0071	P	4.4	-8.6
3	☐	5.000	4.656	28124.33	0.0165	P	4.6	-6.9
4	☐	10.000	9.767	56426.65	0.0334	P	2.5	-2.3
5	☐	100.000	98.367	537609.81	0.3264	P	3.3	-1.6
6	☐	200.000	200.838	1068378.68	0.6653	P	1.9	0.4
7	☐	1.000						

y = 0.0033 * x + 0.0011
R = 1.0000
DL = 0.1422 ppb
BEC = 0.3327 ppb

Weight: <None>
Min Conc: <None>

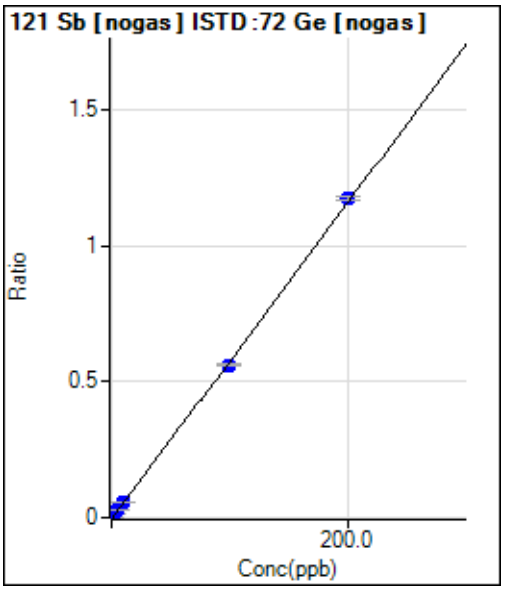


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	783.38	0.0012	P	12.4	
2	☐	2.000	1.780	5134.33	0.0080	P	0.8	-11.0
3	☐	5.000	4.459	11664.89	0.0181	P	2.4	-10.8
4	☐	10.000	9.704	23953.42	0.0380	P	2.7	-3.0
5	☐	100.000	99.826	229154.01	0.3798	P	0.4	-0.2
6	☐	200.000	200.118	456488.50	0.7601	P	1.3	0.1
7	☐	1.000						

y = 0.0038 * x + 0.0012
R = 1.0000
DL = 0.12 ppb
BEC = 0.3216 ppb

Weight: <None>
Min Conc: <None>

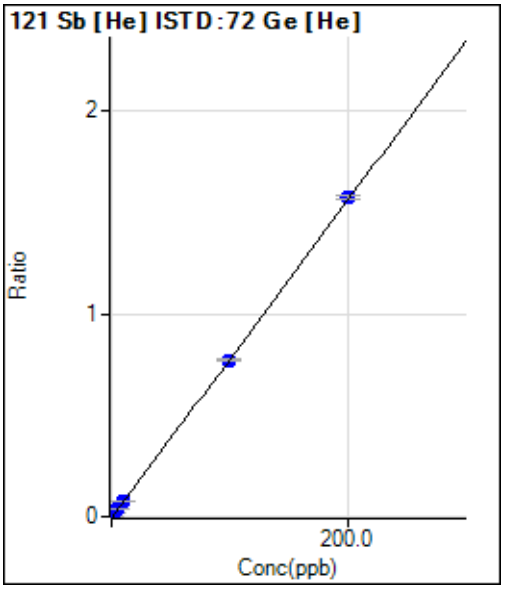
Calibration for 192_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	803.37	0.0006	P	18.8	
2	☐	2.000	1.849	15431.87	0.0114	P	4.9	-7.5
3	☐	5.000	4.769	38210.98	0.0284	P	2.2	-4.6
4	☐	10.000	9.520	75647.63	0.0561	P	1.8	-4.8
5	☐	100.000	96.539	733816.03	0.5632	P	1.3	-3.5
6	☐	200.000	201.762	1479283.78	1.1763	P	1.0	0.9
7	☐	1.000						

y = 0.0058 * x + 6.1567E-004
R = 0.9998
DL = 0.05973 ppb
BEC = 0.1057 ppb

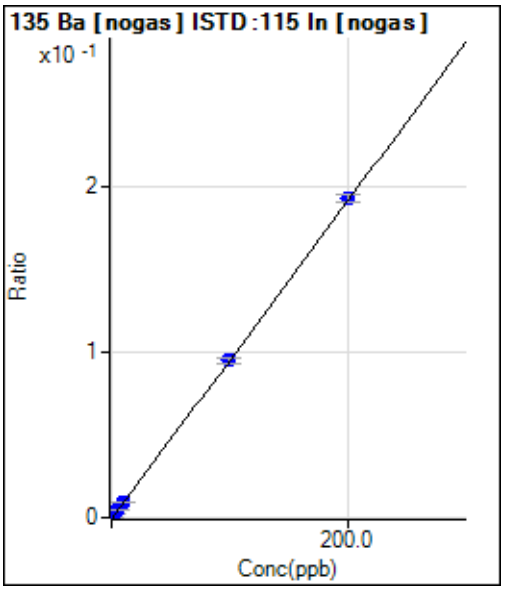
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	353.34	0.0009	P	12.9	
2	☐	2.000	1.808	6238.13	0.0150	P	3.9	-9.6
3	☐	5.000	4.725	15471.86	0.0379	P	3.6	-5.5
4	☐	10.000	9.919	31802.17	0.0786	P	0.2	-0.8
5	☐	100.000	98.390	300061.70	0.7720	P	1.3	-1.6
6	☐	200.000	200.818	603813.44	1.5747	P	1.2	0.4
7	☐	1.000						

y = 0.0078 * x + 8.7448E-004
R = 1.0000
DL = 0.04306 ppb
BEC = 0.1116 ppb

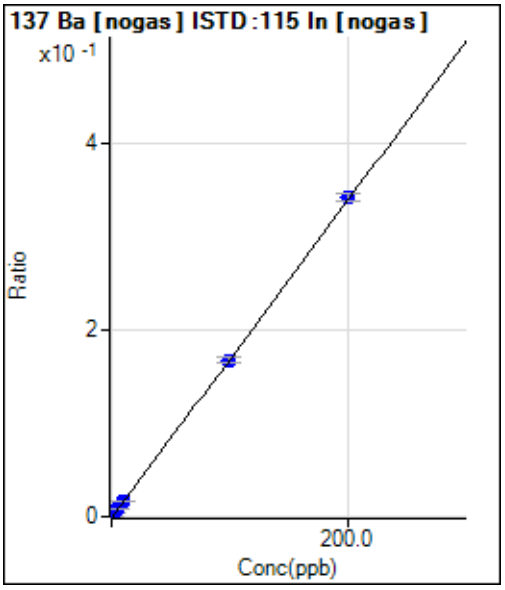
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	156.67	0.0001	P	28.6	
2	☐	2.000	1.888	3267.11	0.0019	P	4.3	-5.6
3	☐	5.000	4.670	7808.95	0.0046	P	4.6	-6.6
4	☐	10.000	9.809	16082.62	0.0095	P	3.3	-1.9
5	☐	100.000	98.726	156398.59	0.0950	P	4.0	-1.3
6	☐	200.000	200.656	309791.84	0.1929	P	2.7	0.3
7	☐	1.000						

y = 9.6106E-004 * x + 9.2820E-005
R = 1.0000
DL = 0.08294 ppb
BEC = 0.09658 ppb

Weight: <None>
Min Conc: <None>

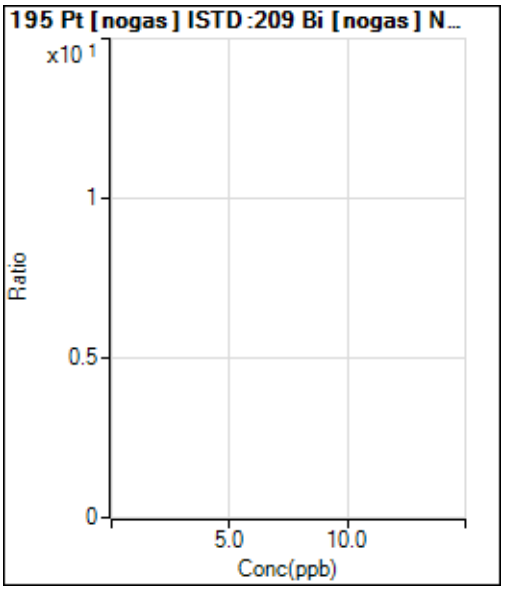


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	320.01	0.0002	P	17.3	
2	☐	2.000	1.839	5684.55	0.0033	P	5.0	-8.0
3	☐	5.000	4.774	14153.92	0.0083	P	3.0	-4.5
4	☐	10.000	9.545	27723.84	0.0164	P	2.6	-4.5
5	☐	100.000	98.192	275143.35	0.1671	P	3.5	-1.8
6	☐	200.000	200.934	548630.07	0.3417	P	2.3	0.5
7	☐	1.000						

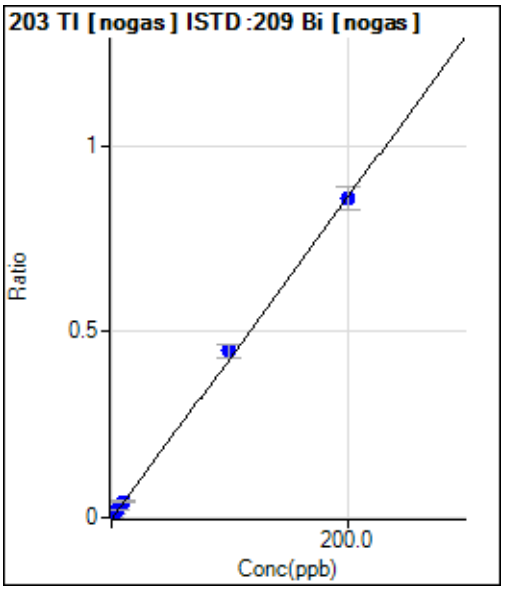
y = 0.0017 * x + 1.8965E-004
R = 0.9999
DL = 0.05801 ppb
BEC = 0.1116 ppb

Weight: <None>
Min Conc: <None>

Calibration for 192_ICV.d



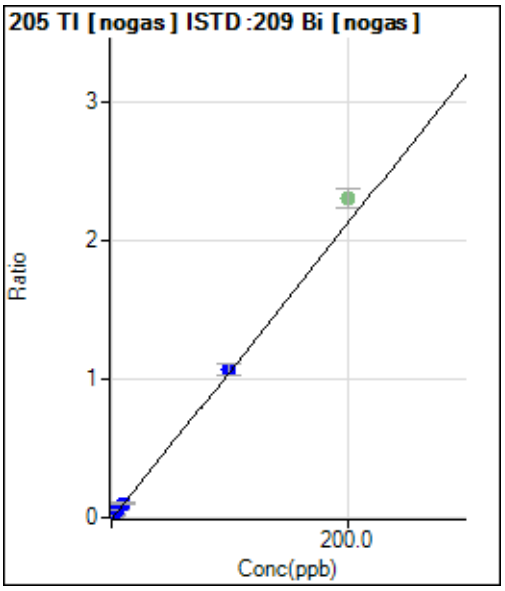
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000						
2	☐	2.000						
3	☐	5.000						
4	☐	10.000						
5	☐	100.000						
6	☐	200.000						
7	☐	1.000						



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	176.67	0.0001	P	40.8	
2	☐	2.000	1.976	15378.89	0.0087	P	5.5	-1.2
3	☐	5.000	4.983	38354.07	0.0217	P	6.6	-0.3
4	☐	10.000	9.870	76359.14	0.0429	P	7.8	-1.3
5	☐	100.000	103.498	778306.03	0.4484	P	8.3	3.5
6	☐	200.000	198.258	1516057.32	0.8589	P	6.9	-0.9
7	☐	1.000						

y = 0.0043 * x + 1.0204E-004
R = 0.9998
DL = 0.02885 ppb
BEC = 0.02356 ppb

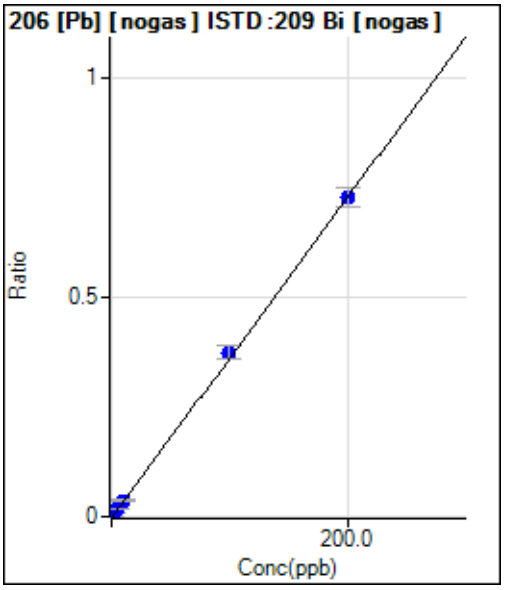
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	330.01	0.0002	P	19.8	
2	☐	2.000	1.940	37157.57	0.0210	P	7.6	-3.0
3	☐	5.000	4.788	90864.52	0.0514	P	8.2	-4.2
4	☐	10.000	9.724	185786.72	0.1042	P	7.1	-2.8
5	☐	100.000	100.039	1858918.09	1.0707	P	7.6	0.0
6	☑	200.000		4081029.73	2.3108	A	5.6	
7	☐	1.000						

y = 0.0107 * x + 1.9057E-004
R = 1.0000
DL = 0.0106 ppb
BEC = 0.01781 ppb

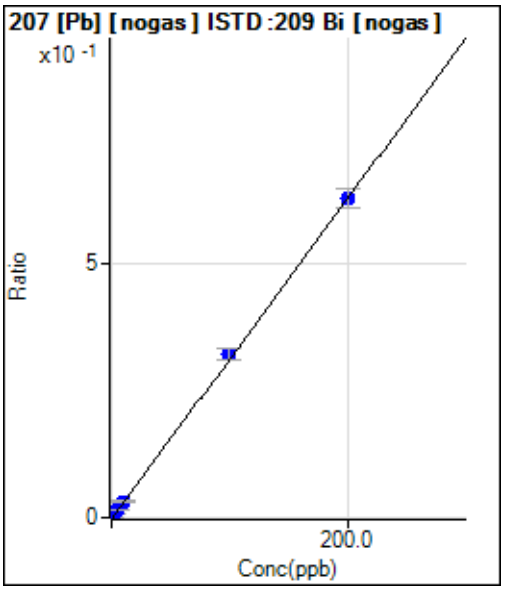
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	260.01	0.0002	P	5.2	
2	☐	2.000	1.996	13189.93	0.0074	P	8.3	-0.2
3	☐	5.000	5.099	33174.00	0.0188	P	7.3	2.0
4	☐	10.000	10.063	65684.59	0.0369	P	9.1	0.6
5	☐	100.000	102.033	646918.84	0.3727	P	7.9	2.0
6	☐	200.000	198.978	1282816.28	0.7266	P	6.3	-0.5
7	☐	1.000						

y = 0.0037 * x + 1.5007E-004
R = 0.9999
DL = 0.00645 ppb
BEC = 0.04111 ppb

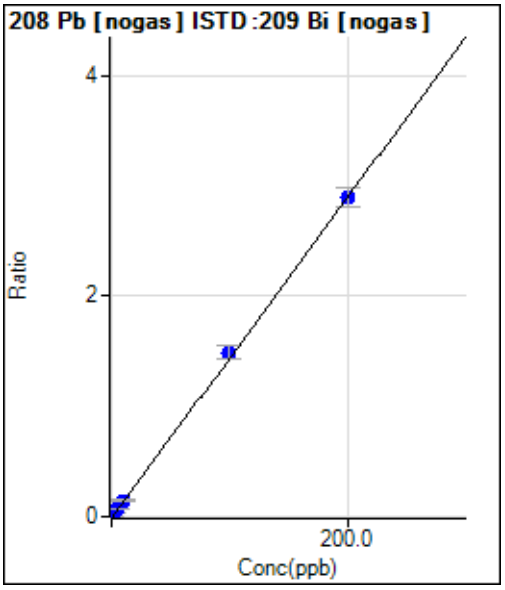
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	233.34	0.0001	P	14.8	
2	☐	2.000	2.027	11585.10	0.0065	P	9.6	1.4
3	☐	5.000	4.949	27855.47	0.0158	P	8.9	-1.0
4	☐	10.000	10.042	56778.17	0.0319	P	7.1	0.4
5	☐	100.000	101.990	559634.13	0.3223	P	7.6	2.0
6	☐	200.000	199.004	1110048.03	0.6288	P	6.6	-0.5
7	☐	1.000						

y = 0.0032 * x + 1.3460E-004
R = 0.9999
DL = 0.01893 ppb
BEC = 0.04261 ppb

Weight: <None>
Min Conc: <None>

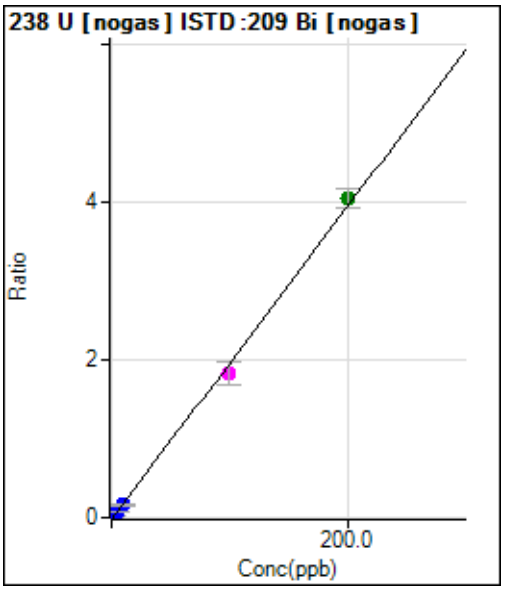


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1080.04	0.0006	P	3.0	
2	☐	2.000	2.021	53288.59	0.0301	P	8.8	1.1
3	☐	5.000	5.001	129856.26	0.0735	P	7.3	0.0
4	☐	10.000	10.059	262193.03	0.1471	P	7.6	0.6
5	☐	100.000	102.108	2583227.54	1.4879	P	7.7	2.1
6	☐	200.000	198.943	5117167.92	2.8984	P	6.4	-0.5
7	☐	1.000						

y = 0.0146 * x + 6.2346E-004
R = 0.9999
DL = 0.003794 ppb
BEC = 0.0428 ppb

Weight: <None>
Min Conc: <None>

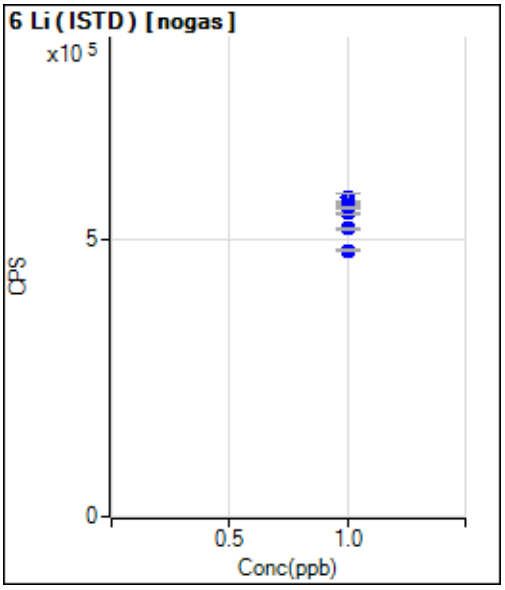
Calibration for 192_ICV.d



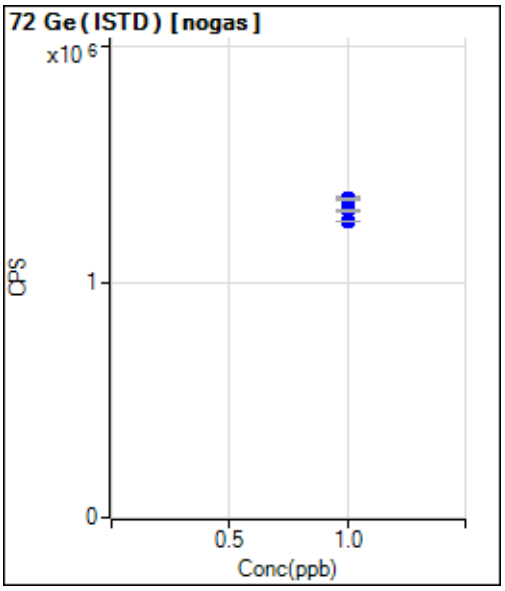
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	323.34	0.0002	P	26.3	
2	☐	2.000	1.670	59067.23	0.0333	P	7.1	-16.5
3	☐	5.000	4.115	144603.33	0.0818	P	7.0	-17.7
4	☐	10.000	8.252	291753.40	0.1638	P	8.7	-17.5
5	☐	100.000	92.300	3171470.26	1.8305	M	15.8	-7.7
6	☐	200.000	203.963	7141776.14	4.0447	A	6.3	2.0
7	☐	1.000						

y = 0.0198 * x + 1.8782E-004
R = 0.9990
DL = 0.007461 ppb
BEC = 0.009472 ppb

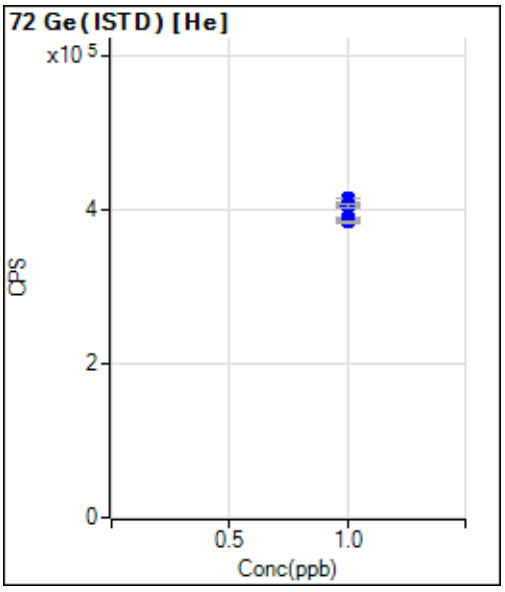
Weight: <None>
Min Conc: <None>



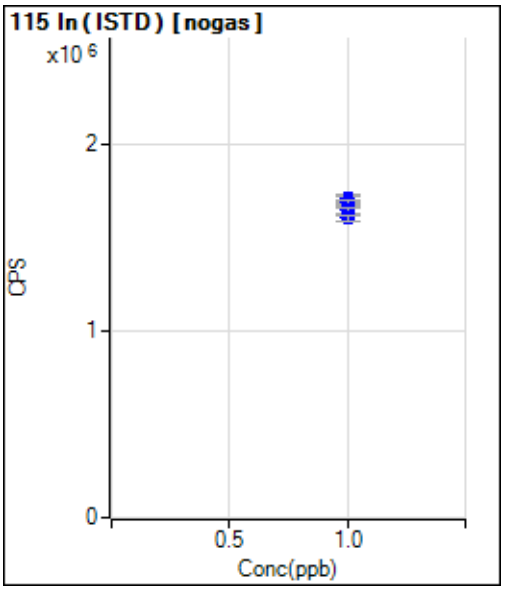
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		547662.21		P	1.0	
2	☐	1.000		576701.86		P	2.3	
3	☐	1.000		564416.71		P	0.7	
4	☐	1.000		558599.63		P	0.8	
5	☐	1.000		519668.47		P	0.5	
6	☐	1.000		479772.07		P	0.7	
7	☐	1.000						



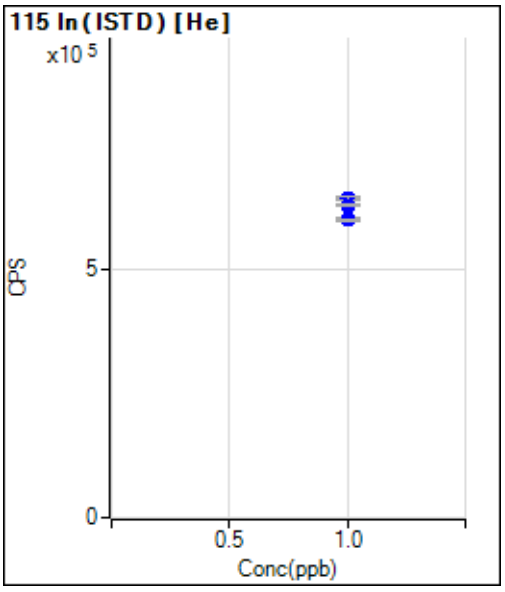
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1305251.54		P	0.5	
2	☐	1.000		1355175.71		P	0.9	
3	☐	1.000		1345222.06		P	0.3	
4	☐	1.000		1348677.69		P	0.5	
5	☐	1.000		1303034.98		P	0.2	
6	☐	1.000		1257511.05		P	0.4	
7	☐	1.000						



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		404102.16		P	0.3	
2	☐	1.000		414657.10		P	0.5	
3	☐	1.000		408189.47		P	0.4	
4	☐	1.000		404572.73		P	0.7	
5	☐	1.000		388731.98		P	0.9	
6	☐	1.000		383478.58		P	1.1	
7	☐	1.000						

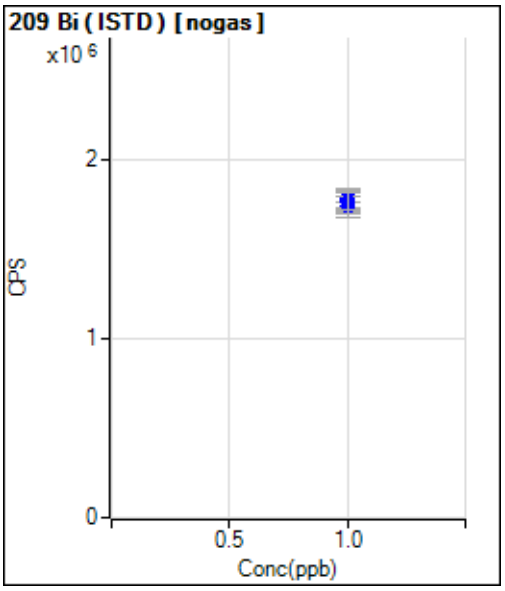


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1687270.96		P	0.2	
2	☐	1.000		1713764.63		P	2.5	
3	☐	1.000		1705366.86		P	1.8	
4	☐	1.000		1689683.91		P	1.4	
5	☐	1.000		1647750.83		P	2.3	
6	☐	1.000		1606094.24		P	1.6	
7	☐	1.000						



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		642440.79		P	0.5	
2	☐	1.000		644287.05		P	1.2	
3	☐	1.000		643446.12		P	1.1	
4	☐	1.000		630090.76		P	0.4	
5	☐	1.000		603406.05		P	0.9	
6	☐	1.000		600605.40		P	0.9	
7	☐	1.000						

Calibration for 192_ICV.d



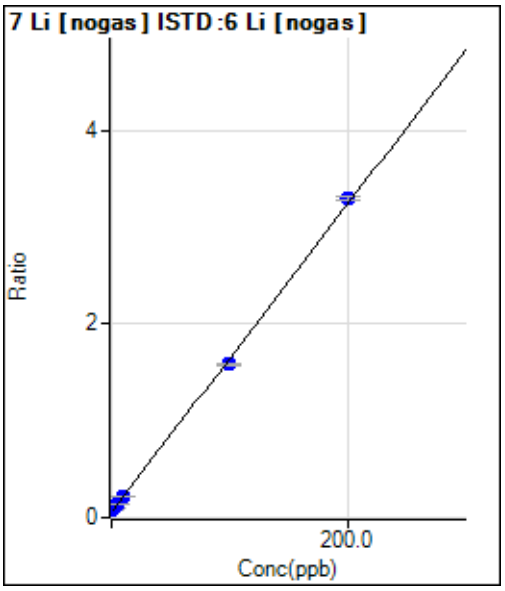
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1731431.07		P	3.5	
2	☐	1.000		1779822.42		P	7.0	
3	☐	1.000		1773555.97		P	6.8	
4	☐	1.000		1787500.34		P	6.3	
5	☐	1.000		1741963.72		P	6.5	
6	☐	1.000		1769441.95		P	5.3	
7	☐	1.000						

Calibration for 017_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\061924A.b\
Analysis File: 061924A.batch.bin
DA Date-Time: 6/19/2024 11:54:57 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	010CALB.d	CAL BLK	6/19/2024 11:45:15 AM
2	011CALS.d	2/10/200	6/19/2024 11:47:23 AM
3	012CALS.d	5/25/500	6/19/2024 11:49:32 AM
4	013CALS.d	10/50/1000	6/19/2024 11:51:38 AM
5	014CALS.d	100/500/10K	6/19/2024 11:53:44 AM
6	015CALS.d	200/1000/20K	6/19/2024 11:55:49 AM
7			

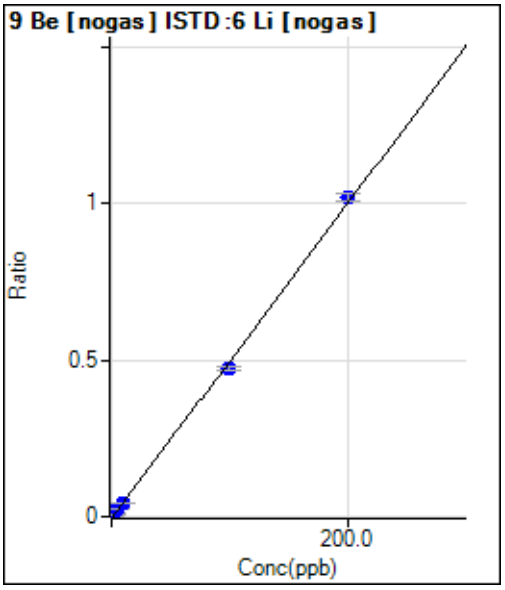
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	53653.39	0.0768	P	0.8	
2	☐	2.000	1.753	76754.10	0.1046	P	0.6	-12.3
3	☐	5.000	4.421	105951.31	0.1471	P	1.1	-11.6
4	☐	10.000	9.111	158259.36	0.2217	P	1.5	-8.9
5	☐	100.000	94.897	1057119.64	1.5864	P	0.8	-5.1
6	☐	200.000	202.613	2045821.74	3.2999	P	1.1	1.3
7	☐	1.000						

y = 0.0159 * x + 0.0768
R = 0.9996
DL = 0.113 ppb
BEC = 4.825 ppb

Weight: <None>
Min Conc: <None>

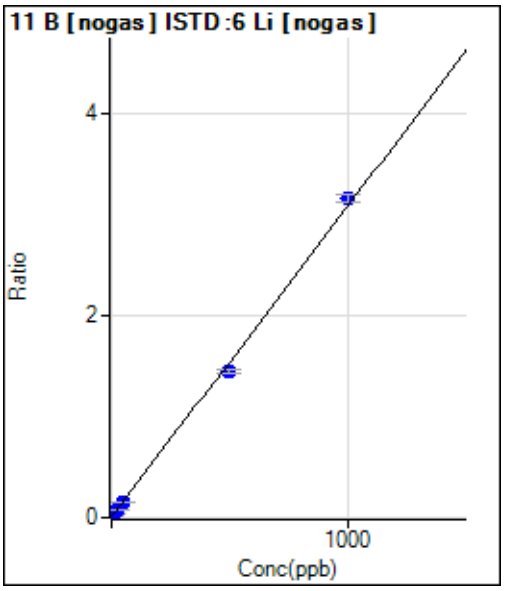


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	61.67	0.0001	P	17.7	
2	☐	2.000	1.787	6658.13	0.0091	P	5.1	-10.6
3	☐	5.000	4.457	16213.50	0.0225	P	3.4	-10.9
4	☐	10.000	9.034	32503.89	0.0455	P	2.1	-9.7
5	☐	100.000	94.468	316704.67	0.4753	P	2.2	-5.5
6	☐	200.000	202.830	632618.48	1.0204	P	1.9	1.4
7	☐	1.000						

y = 0.0050 * x + 8.8305E-005
R = 0.9995
DL = 0.00932 ppb
BEC = 0.01755 ppb

Weight: <None>
Min Conc: <None>

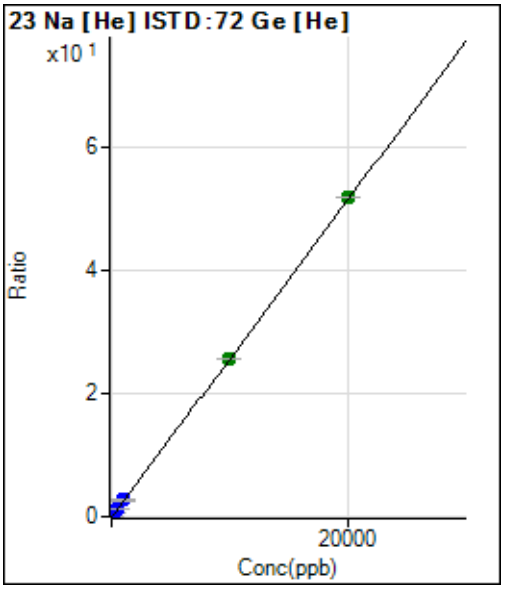
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	17047.78	0.0244	P	1.8	
2	☐	10.000	6.522	32575.68	0.0444	P	2.0	-34.8
3	☐	25.000	19.448	60592.52	0.0841	P	2.2	-22.2
4	☐	50.000	41.893	109260.25	0.1531	P	1.0	-16.2
5	☐	500.000	461.663	961000.09	1.4423	P	2.3	-7.7
6	☐	1000.000	1019.747	1956749.56	3.1563	P	2.3	2.0
7	☐	5.000						

y = 0.0031 * x + 0.0244
R = 0.9990
DL = 0.4352 ppb
BEC = 7.941 ppb

Weight: <None>
Min Conc: <None>

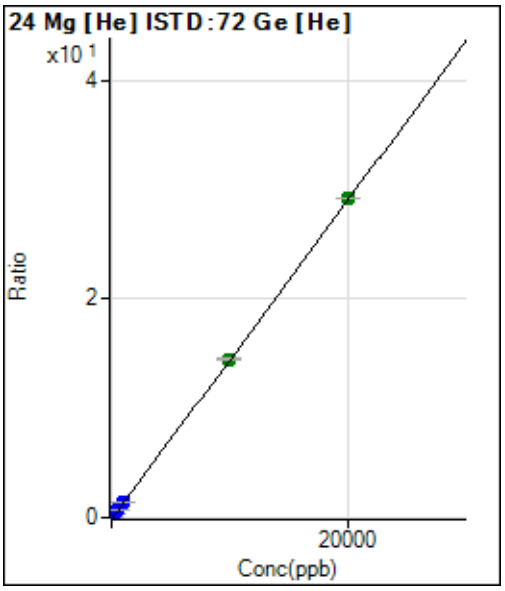


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	52857.75	0.1225	P	12.4	
2	☐	200.000	206.187	288475.11	0.6537	P	8.6	3.1
3	☐	500.000	479.617	595522.78	1.3581	P	1.9	-4.1
4	☐	1000.000	986.682	1160469.57	2.6644	P	1.4	-1.3
5	☐	10000.00	9875.169	10890658.17	25.5625	A	0.7	-1.2
6	☐	20000.00	20063.52	21657733.01	51.8093	A	0.6	0.3
7	☐	100.000						

y = 0.0026 * x + 0.1225
R = 1.0000
DL = 17.68 ppb
BEC = 47.57 ppb

Weight: <None>
Min Conc: <None>

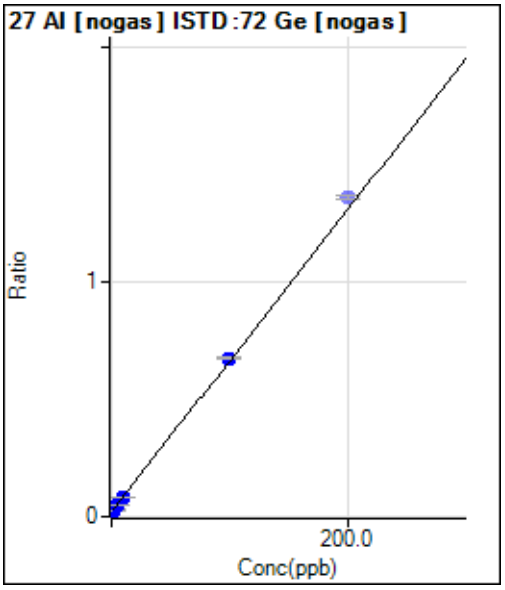
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	473.35	0.0011	P	8.0	
2	☐	200.000	199.661	129102.71	0.2926	P	0.6	-0.2
3	☐	500.000	490.995	314798.61	0.7179	P	1.2	-1.8
4	☐	1000.000	987.633	628495.80	1.4429	P	0.4	-1.2
5	☐	10000.00	9946.032	6186646.57	14.5211	A	0.5	-0.5
6	☐	20000.00	20027.83	12222952.32	29.2394	A	0.3	0.1
7	☐	100.000						

y = 0.0015 * x + 0.0011
R = 1.0000
DL = 0.1799 ppb
BEC = 0.7515 ppb

Weight: <None>
Min Conc: <None>

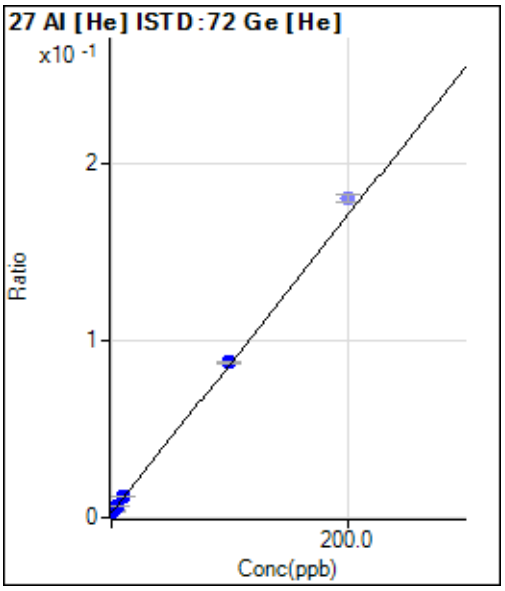


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	41238.97	0.0292	P	1.8	
2	☐	2.000	-0.115	42134.75	0.0285	P	3.0	-105.7
3	☐	5.000	3.104	71686.77	0.0492	P	0.8	-37.9
4	☐	10.000	8.491	121042.24	0.0838	P	1.4	-15.1
5	☐	100.000	100.288	955197.02	0.6735	P	0.8	0.3
6	☑	200.000		1897297.21	1.3595	P	1.5	
7	☐	1.000						

y = 0.0064 * x + 0.0292
R = 0.9998
DL = 0.2517 ppb
BEC = 4.548 ppb

Weight: <None>
Min Conc: <None>

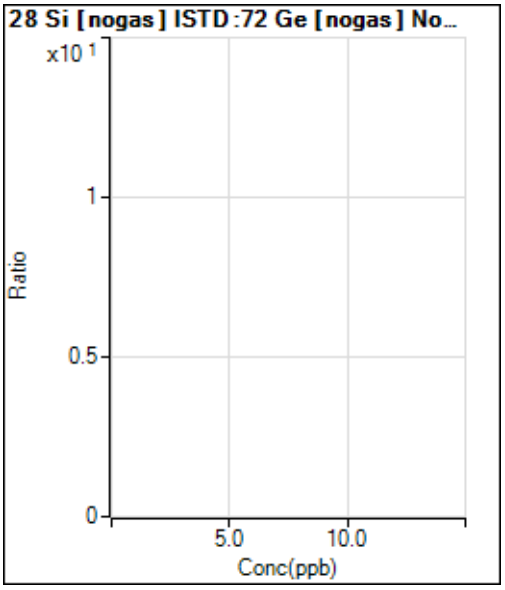
Calibration for 017_ICV.d



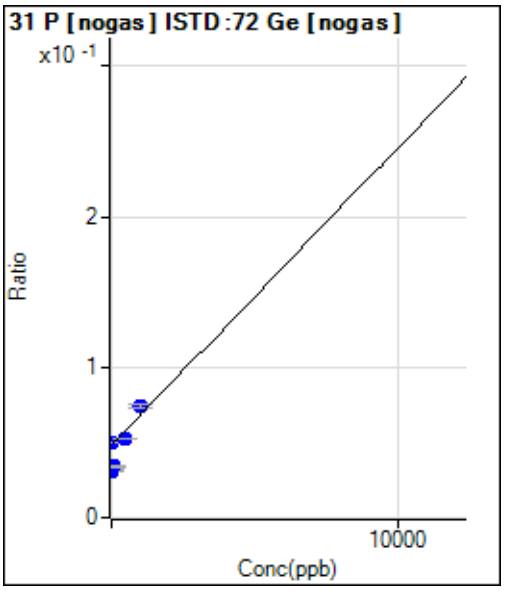
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1583.45	0.0037	P	12.1	
2	☐	2.000	0.155	1676.79	0.0038	P	3.0	-92.3
3	☐	5.000	3.484	2890.33	0.0066	P	6.7	-30.3
4	☐	10.000	9.752	5157.62	0.0118	P	1.0	-2.5
5	☐	100.000	100.138	37312.21	0.0876	P	1.7	0.1
6	☑	200.000		75227.12	0.1800	P	3.0	
7	☐	1.000						

y = 8.3791E-004 * x + 0.0037
R = 0.9998
DL = 1.596 ppb
BEC = 4.38 ppb

Weight: <None>
Min Conc: <None>



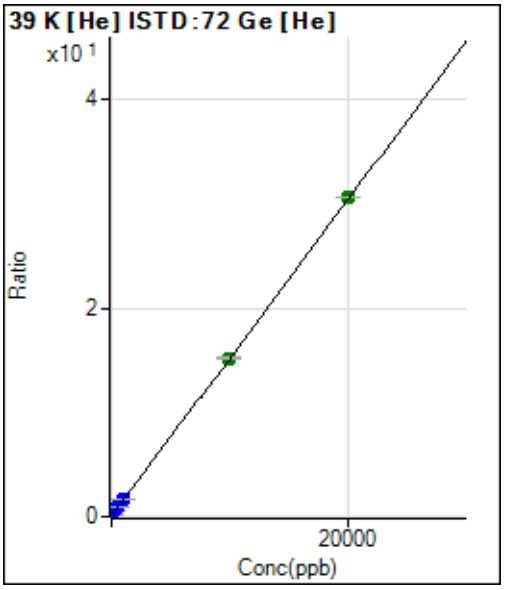
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000						
2	☐	100.000						
3	☐	250.000						
4	☐	500.000						
5	☐	5000.000						
6	☐	10000.00						
7	☐	50.000						



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	69882.06	0.0495	P	0.4	
2	☐	10.000	-953.100	45467.75	0.0307	P	2.0	-9631.
3	☐	25.000	-893.066	46534.09	0.0319	P	1.1	-3672.
4	☐	50.000	-789.256	49065.54	0.0340	P	2.1	-1678.
5	☐	500.000	121.337	73599.69	0.0519	P	0.2	-75.7
6	☐	1000.000	1263.877	103833.78	0.0744	P	2.5	26.4
7	☐	5.000						

y = 1.9700E-005 * x + 0.0495
R = 0.9035
DL = 31.86 ppb
BEC = 2513 ppb

Weight: <None>
Min Conc: <None>

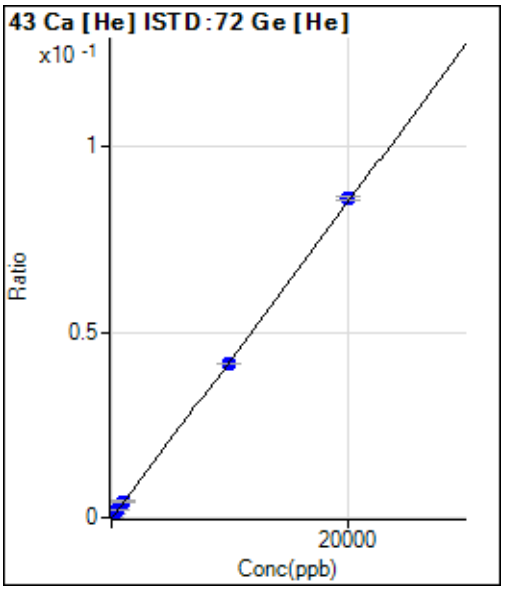


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	88103.28	0.2042	P	1.3	
2	☐	200.000	197.758	222429.60	0.5041	P	0.2	-1.1
3	☐	500.000	477.735	407228.14	0.9286	P	0.3	-4.5
4	☐	1000.000	975.763	733393.22	1.6838	P	1.1	-2.4
5	☐	10000.00	9884.801	6472898.24	15.1930	A	1.4	-1.2
6	☐	20000.00	20059.39	12800551.48	30.6212	A	0.2	0.3
7	☐	100.000						

y = 0.0015 * x + 0.2042
R = 1.0000
DL = 5.223 ppb
BEC = 134.7 ppb

Weight: <None>
Min Conc: <None>

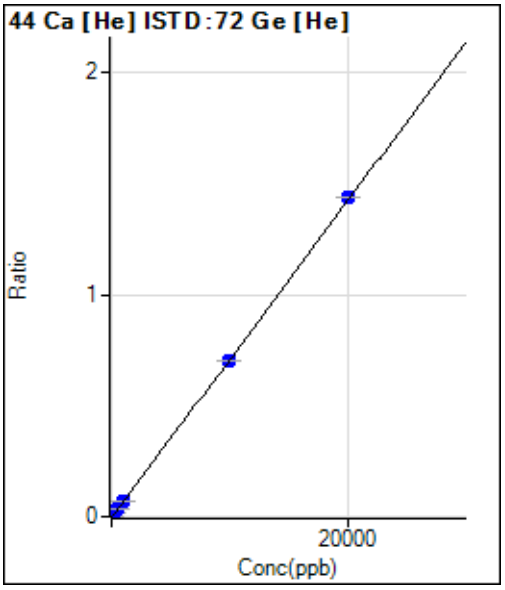
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	50.00	0.0001	P	69.4	
2	☐	200.000	201.024	430.01	0.0010	P	6.5	0.5
3	☐	500.000	476.569	943.38	0.0022	P	5.9	-4.7
4	☐	1000.000	967.715	1850.15	0.0042	P	10.9	-3.2
5	☐	10000.00	9685.974	17677.15	0.0415	P	0.3	-3.1
6	☐	20000.00	20159.20	36046.42	0.0862	P	1.7	0.8
7	☐	100.000						

y = 4.2717E-006 * x + 1.1594E-004
R = 0.9998
DL = 56.49 ppb
BEC = 27.14 ppb

Weight: <None>
Min Conc: <None>

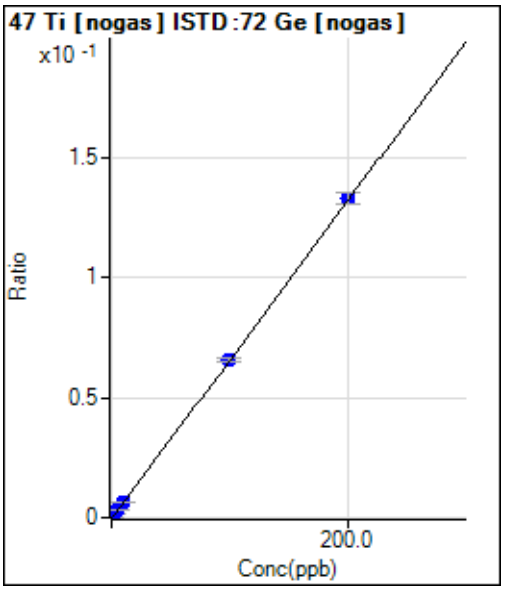


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	800.03	0.0019	P	13.1	
2	☐	200.000	198.456	7081.77	0.0160	P	6.3	-0.8
3	☐	500.000	472.612	15631.64	0.0356	P	5.2	-5.5
4	☐	1000.000	994.102	31766.81	0.0729	P	1.5	-0.6
5	☐	10000.00	9775.617	298586.66	0.7008	P	0.5	-2.2
6	☐	20000.00	20113.18	601957.91	1.4400	P	0.5	0.6
7	☐	100.000						

y = 7.1502E-005 * x + 0.0019
R = 0.9999
DL = 10.2 ppb
BEC = 25.93 ppb

Weight: <None>
Min Conc: <None>

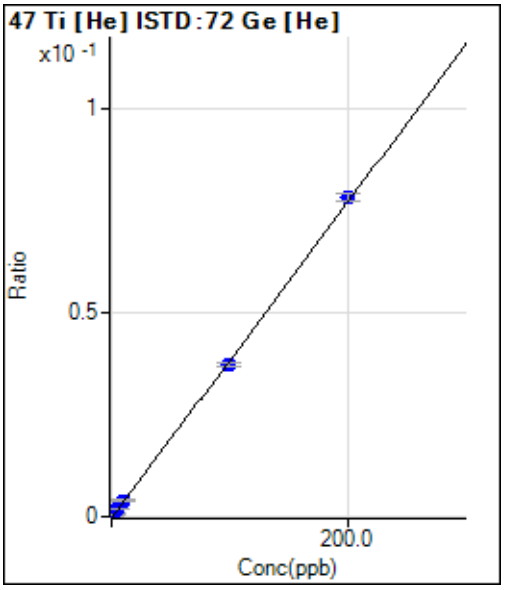
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	180.00	0.0001	P	9.2	
2	☐	2.000	1.993	2146.86	0.0015	P	4.0	-0.3
3	☐	5.000	4.706	4740.83	0.0033	P	0.6	-5.9
4	☐	10.000	9.975	9753.36	0.0067	P	2.1	-0.2
5	☐	100.000	98.850	93235.26	0.0657	P	2.2	-1.1
6	☐	200.000	200.584	185985.97	0.1333	P	3.2	0.3
7	☐	1.000						

y = 6.6373E-004 * x + 1.2748E-004
R = 1.0000
DL = 0.05311 ppb
BEC = 0.1921 ppb

Weight: <None>
Min Conc: <None>

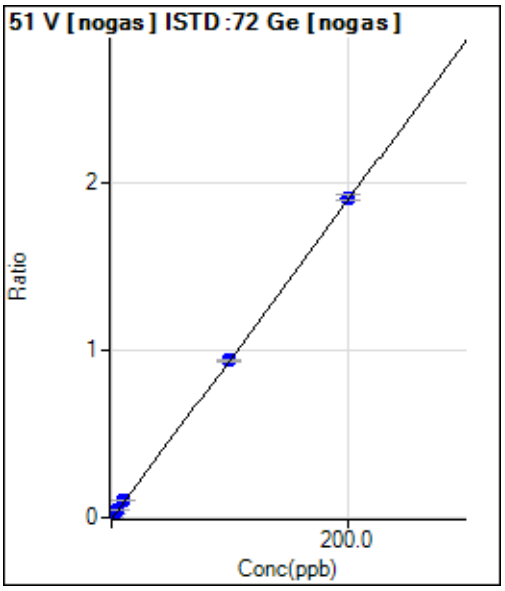


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13.33	0.0000	P	43.6	
2	☐	2.000	1.905	340.01	0.0008	P	28.2	-4.8
3	☐	5.000	4.588	793.37	0.0018	P	13.2	-8.2
4	☐	10.000	9.950	1693.46	0.0039	P	6.7	-0.5
5	☐	100.000	96.039	15878.55	0.0373	P	2.5	-4.0
6	☐	200.000	201.994	32752.29	0.0784	P	2.0	1.0
7	☐	1.000						

y = 3.8773E-004 * x + 3.0930E-005
R = 0.9997
DL = 0.1044 ppb
BEC = 0.07977 ppb

Weight: <None>
Min Conc: <None>

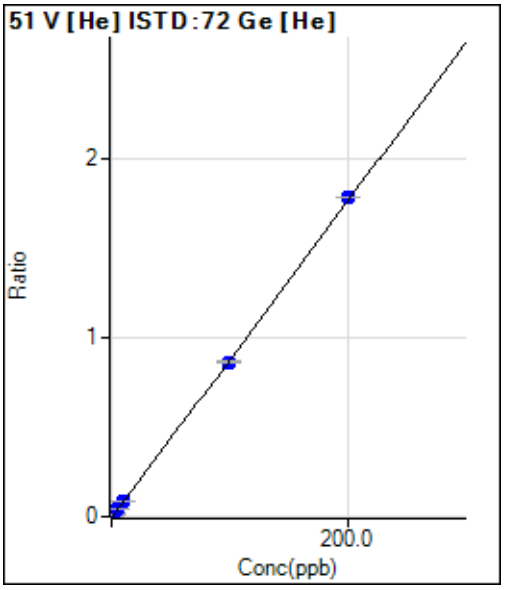
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-7376.45	-0.0052	P	-73.0	
2	☐	2.000	2.151	22646.01	0.0153	P	28.9	7.5
3	☐	5.000	5.329	66622.77	0.0457	P	3.5	6.6
4	☐	10.000	10.457	136724.48	0.0946	P	3.5	4.6
5	☐	100.000	98.848	1331267.73	0.9386	P	1.2	-1.2
6	☐	200.000	200.543	2665202.81	1.9097	P	2.0	0.3
7	☐	1.000						

y = 0.0095 * x - 0.0052
R = 1.0000
DL = 1.195 ppb
BEC = -0.5454 ppb

Weight: <None>
Min Conc: <None>

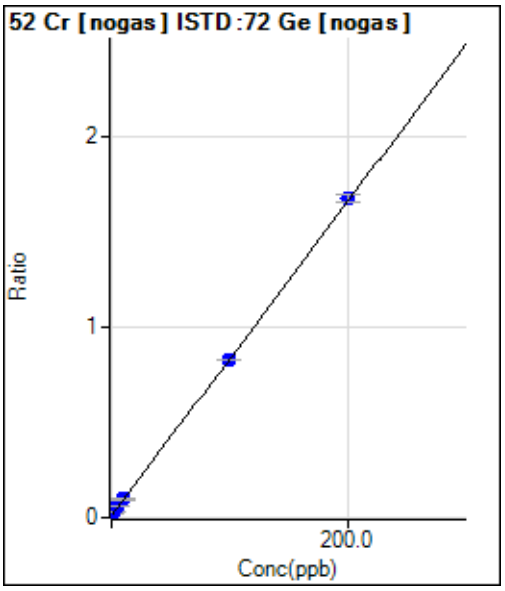


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	417.83	0.0010	P	179.2	
2	☐	2.000	1.780	7382.82	0.0167	P	21.4	-11.0
3	☐	5.000	4.755	18888.04	0.0431	P	8.7	-4.9
4	☐	10.000	9.666	37692.57	0.0866	P	4.2	-3.3
5	☐	100.000	97.348	367616.55	0.8629	P	0.8	-2.7
6	☐	200.000	201.351	745642.17	1.7837	P	0.5	0.7
7	☐	1.000						

y = 0.0089 * x + 9.7297E-004
R = 0.9999
DL = 0.5909 ppb
BEC = 0.1099 ppb

Weight: <None>
Min Conc: <None>

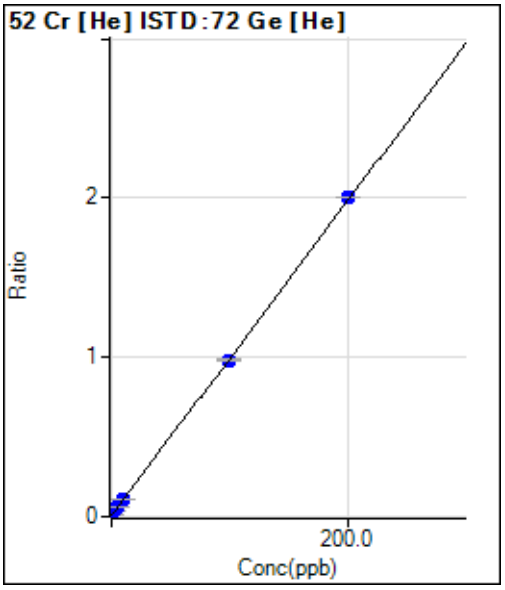
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	26567.04	0.0188	P	1.9	
2	☐	2.000	1.694	48568.38	0.0328	P	1.8	-15.3
3	☐	5.000	4.563	82447.55	0.0565	P	1.1	-8.7
4	☐	10.000	9.437	139886.09	0.0968	P	2.4	-5.6
5	☐	100.000	98.120	1176946.96	0.8298	P	1.0	-1.9
6	☐	200.000	200.982	2344700.33	1.6800	P	1.8	0.5
7	☐	1.000						

y = 0.0083 * x + 0.0188
R = 0.9999
DL = 0.1308 ppb
BEC = 2.277 ppb

Weight: <None>
Min Conc: <None>

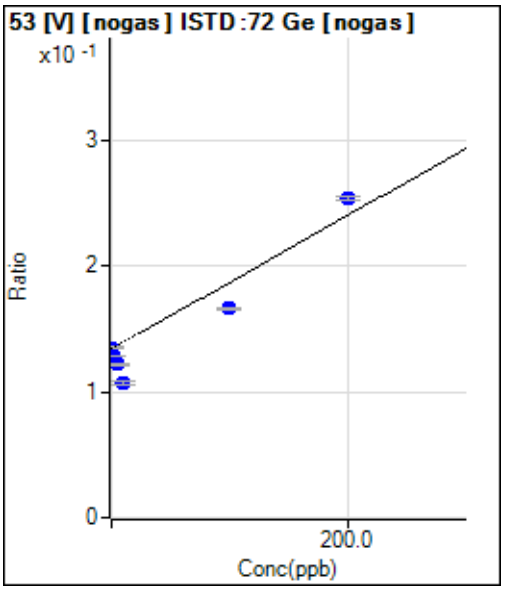


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	7455.32	0.0173	P	2.5	
2	☐	2.000	1.897	15898.59	0.0360	P	3.6	-5.1
3	☐	5.000	4.842	28553.98	0.0651	P	2.6	-3.2
4	☐	10.000	9.776	49598.25	0.1139	P	1.3	-2.2
5	☐	100.000	97.808	419087.48	0.9837	P	1.6	-2.2
6	☐	200.000	201.112	837926.73	2.0045	P	0.6	0.6
7	☐	1.000						

y = 0.0099 * x + 0.0173
R = 0.9999
DL = 0.1327 ppb
BEC = 1.749 ppb

Weight: <None>
Min Conc: <None>

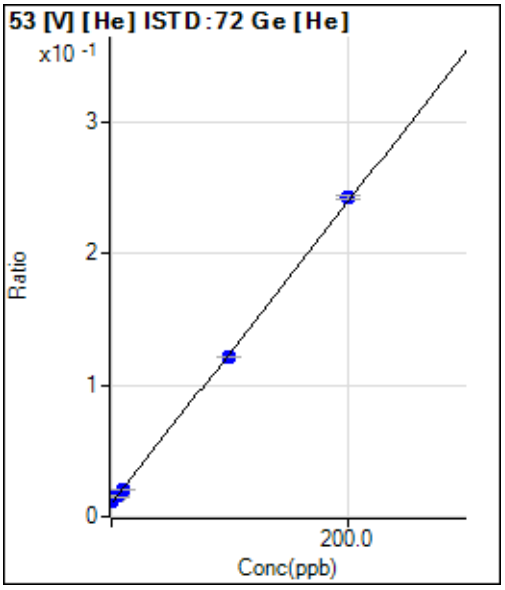
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	190446.52	0.1349	P	1.0	
2	☐	2.000	-11.240	190798.69	0.1289	P	0.2	-662.0
3	☐	5.000	-24.146	178028.78	0.1221	P	1.8	-582.9
4	☐	10.000	-52.678	154459.83	0.1069	P	2.2	-626.8
5	☐	100.000	59.661	236360.02	0.1666	P	0.8	-40.3
6	☐	200.000	224.165	354698.89	0.2541	P	1.5	12.1
7	☐	1.000						

y = 5.3190E-004 * x + 0.1349
R = 0.9652
DL = 7.416 ppb
BEC = 253.6 ppb

Weight: <None>
Min Conc: <None>

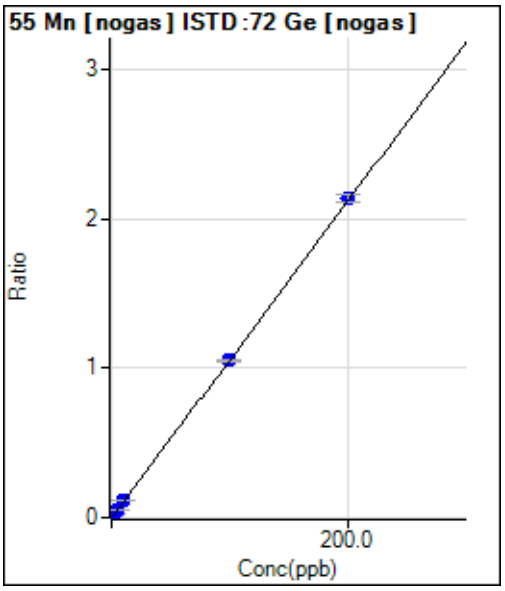


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4957.59	0.0115	P	2.3	
2	☐	2.000	2.202	6184.74	0.0140	P	5.0	10.1
3	☐	5.000	3.696	6895.06	0.0157	P	7.5	-26.1
4	☐	10.000	7.763	8882.75	0.0204	P	5.0	-22.4
5	☐	100.000	96.028	51795.53	0.1216	P	0.3	-4.0
6	☐	200.000	202.128	101666.88	0.2432	P	1.0	1.1
7	☐	1.000						

y = 0.0011 * x + 0.0115
R = 0.9997
DL = 0.699 ppb
BEC = 10.02 ppb

Weight: <None>
Min Conc: <None>

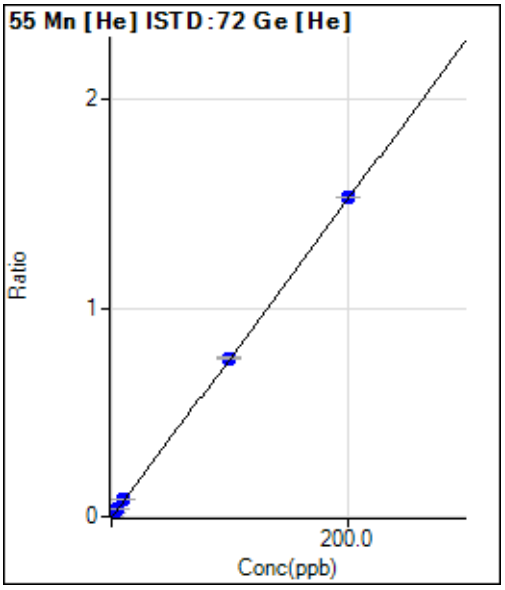
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10333.73	0.0073	P	4.3	
2	☐	2.000	1.826	39478.77	0.0267	P	3.3	-8.7
3	☐	5.000	4.640	82427.37	0.0565	P	1.3	-7.2
4	☐	10.000	9.705	159277.14	0.1102	P	1.4	-3.0
5	☐	100.000	98.516	1492037.01	1.0520	P	1.2	-1.5
6	☐	200.000	200.768	2981542.56	2.1363	P	1.9	0.4
7	☐	1.000						

y = 0.0106 * x + 0.0073
R = 1.0000
DL = 0.08919 ppb
BEC = 0.6902 ppb

Weight: <None>
Min Conc: <None>

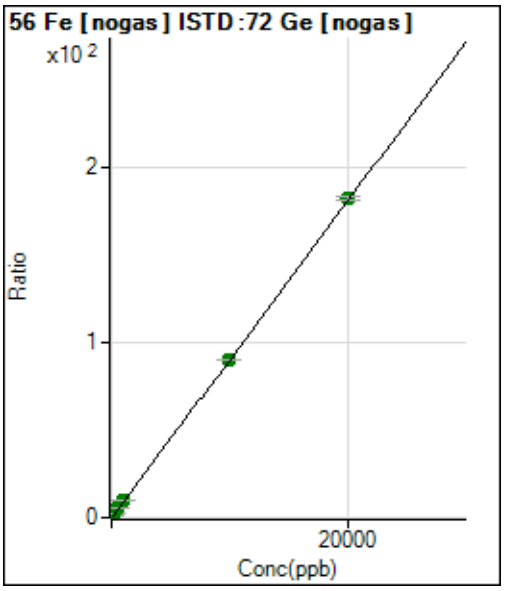


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1260.07	0.0029	P	11.9	
2	☐	2.000	1.968	7915.56	0.0179	P	7.1	-1.6
3	☐	5.000	4.998	18014.37	0.0411	P	1.0	0.0
4	☐	10.000	9.935	34309.27	0.0788	P	0.2	-0.7
5	☐	100.000	99.347	324376.37	0.7614	P	1.1	-0.7
6	☐	200.000	200.330	640564.04	1.5323	P	0.3	0.2
7	☐	1.000						

y = 0.0076 * x + 0.0029
R = 1.0000
DL = 0.1367 ppb
BEC = 0.3827 ppb

Weight: <None>
Min Conc: <None>

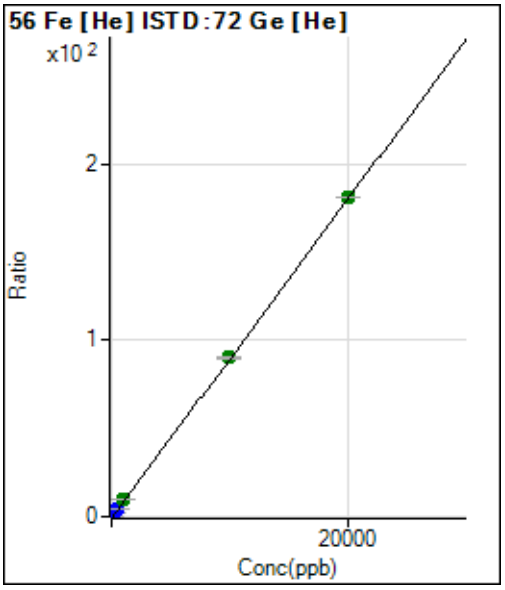
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	842151.45	0.5966	P	1.5	
2	☐	200.000	197.267	3528497.66	2.3846	A	1.6	-1.4
3	☐	500.000	501.373	7496961.97	5.1410	A	1.2	0.3
4	☐	1000.000	1013.044	14129775.62	9.7787	A	1.5	1.3
5	☐	10000.00	9877.471	127824711.4	90.1249	A	0.6	-1.2
6	☐	20000.00	20060.60	254600362.8	182.423	A	0.7	0.3
7	☐	100.000						

y = 0.0091 * x + 0.5966
R = 1.0000
DL = 2.877 ppb
BEC = 65.82 ppb

Weight: <None>
Min Conc: <None>

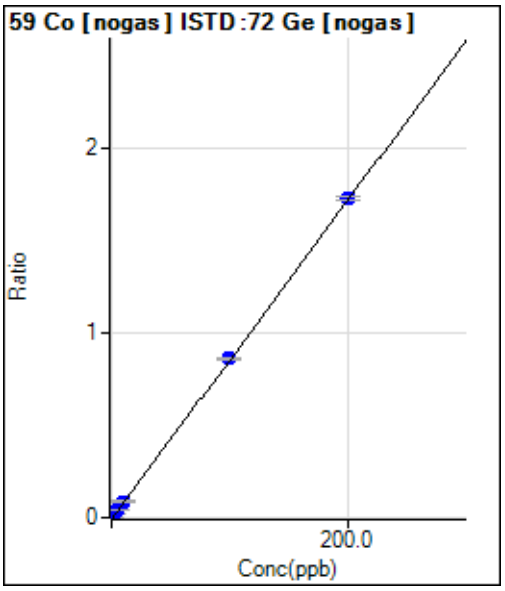


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13653.04	0.0316	P	3.1	
2	☐	200.000	197.251	802271.63	1.8182	P	0.6	-1.4
3	☐	500.000	491.873	1967361.90	4.4866	P	1.8	-1.6
4	☐	1000.000	1039.715	4115522.86	9.4485	A	0.2	4.0
5	☐	10000.00	9955.851	38429955.26	90.2037	A	2.0	-0.4
6	☐	20000.00	20020.32	75813590.54	181.359	A	0.2	0.1
7	☐	100.000						

y = 0.0091 * x + 0.0316
R = 1.0000
DL = 0.3284 ppb
BEC = 3.494 ppb

Weight: <None>
Min Conc: <None>

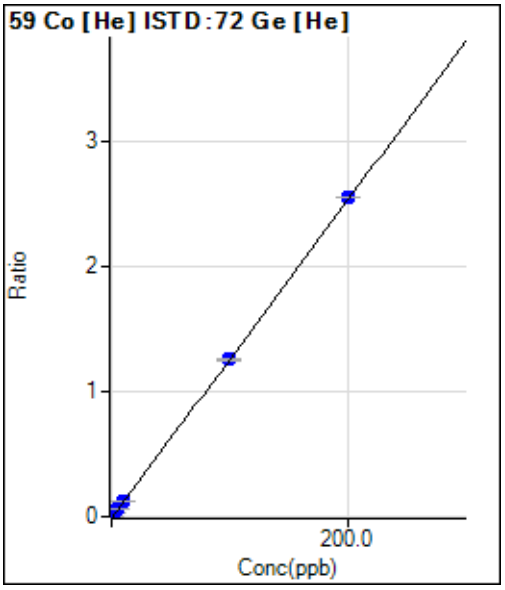
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	376.68	0.0003	P	9.9	
2	☐	2.000	2.004	26052.80	0.0176	P	2.9	0.2
3	☐	5.000	4.945	62797.53	0.0431	P	1.6	-1.1
4	☐	10.000	10.119	126931.51	0.0878	P	2.5	1.2
5	☐	100.000	99.505	1221924.02	0.8615	P	2.0	-0.5
6	☐	200.000	200.243	2419335.48	1.7334	P	1.3	0.1
7	☐	1.000						

y = 0.0087 * x + 2.6669E-004
R = 1.0000
DL = 0.009146 ppb
BEC = 0.03081 ppb

Weight: <None>
Min Conc: <None>

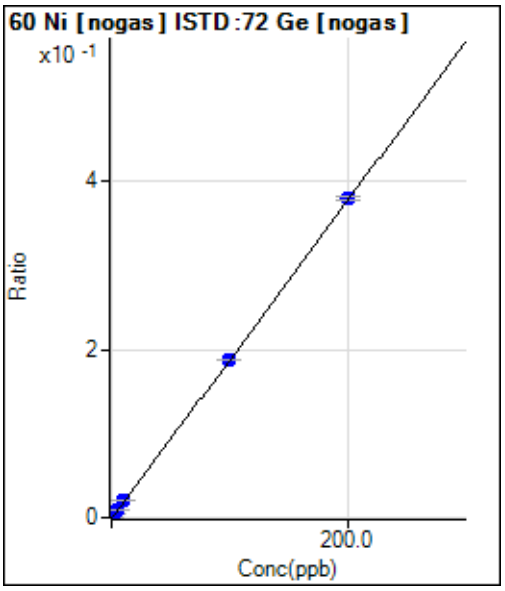


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	173.33	0.0004	P	8.8	
2	☐	2.000	2.006	11447.87	0.0259	P	1.5	0.3
3	☐	5.000	4.994	28056.50	0.0640	P	1.5	-0.1
4	☐	10.000	9.879	54950.49	0.1262	P	3.8	-1.2
5	☐	100.000	98.564	534749.59	1.2551	P	1.2	-1.4
6	☐	200.000	200.724	1068334.59	2.5556	P	0.4	0.4
7	☐	1.000						

y = 0.0127 * x + 4.0174E-004
R = 1.0000
DL = 0.008325 ppb
BEC = 0.03156 ppb

Weight: <None>
Min Conc: <None>

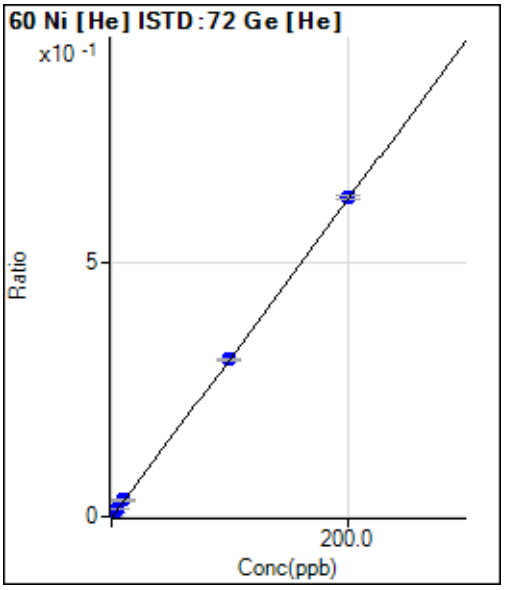
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	533.35	0.0004	P	10.6	
2	☐	2.000	2.099	6448.18	0.0044	P	6.6	4.9
3	☐	5.000	5.075	14580.66	0.0100	P	2.1	1.5
4	☐	10.000	10.146	28343.66	0.0196	P	1.4	1.5
5	☐	100.000	99.281	267481.58	0.1886	P	0.4	-0.7
6	☐	200.000	200.349	530632.06	0.3802	P	1.4	0.2
7	☐	1.000						

y = 0.0019 * x + 3.7779E-004
R = 1.0000
DL = 0.0632 ppb
BEC = 0.1993 ppb

Weight: <None>
Min Conc: <None>

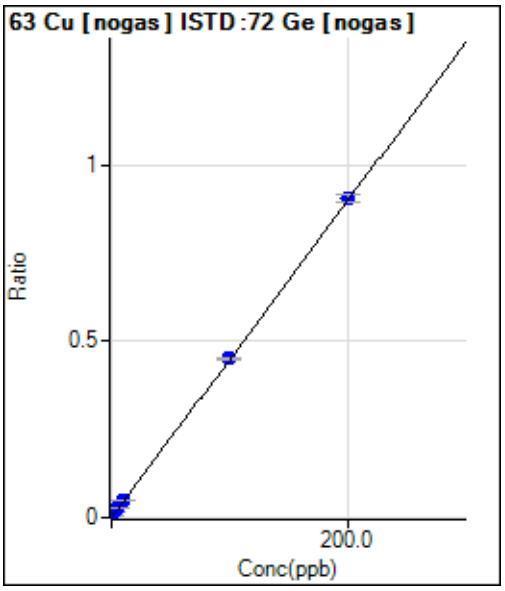


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	160.00	0.0004	P	28.7	
2	☐	2.000	2.037	2973.68	0.0067	P	6.2	1.8
3	☐	5.000	5.141	7208.53	0.0164	P	0.7	2.8
4	☐	10.000	10.376	14283.64	0.0328	P	4.5	3.8
5	☐	100.000	98.762	131665.34	0.3090	P	1.5	-1.2
6	☐	200.000	200.596	262228.38	0.6273	P	0.9	0.3
7	☐	1.000						

y = 0.0031 * x + 3.7083E-004
R = 1.0000
DL = 0.102 ppb
BEC = 0.1187 ppb

Weight: <None>
Min Conc: <None>

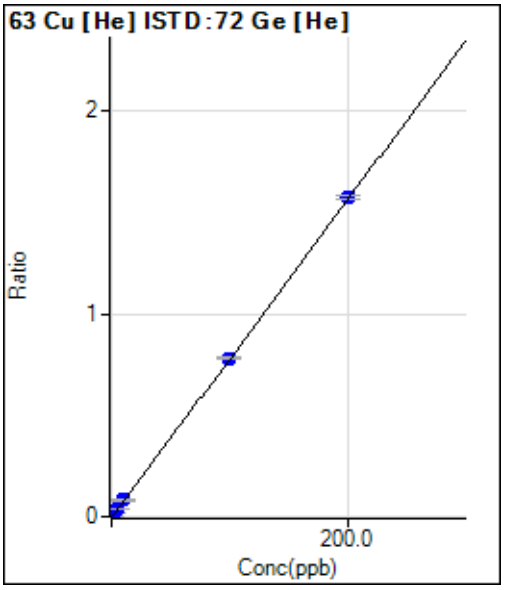
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6968.39	0.0049	P	9.3	
2	☐	2.000	1.984	20514.26	0.0139	P	2.5	-0.8
3	☐	5.000	4.894	39298.41	0.0269	P	1.9	-2.1
4	☐	10.000	10.274	73918.33	0.0512	P	1.0	2.7
5	☐	100.000	99.079	639148.14	0.4506	P	1.2	-0.9
6	☐	200.000	200.450	1265382.59	0.9067	P	1.9	0.2
7	☐	1.000						

y = 0.0045 * x + 0.0049
R = 1.0000
DL = 0.3068 ppb
BEC = 1.097 ppb

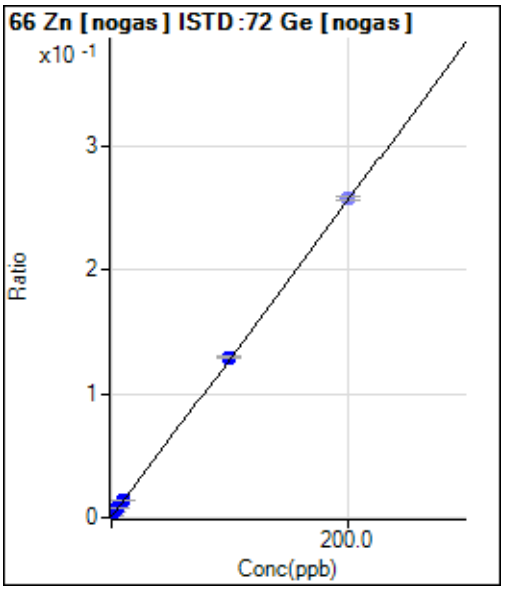
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	606.69	0.0014	P	14.7	
2	☐	2.000	2.013	7602.09	0.0172	P	3.4	0.7
3	☐	5.000	5.050	18021.10	0.0411	P	1.1	1.0
4	☐	10.000	10.156	35378.58	0.0812	P	1.8	1.6
5	☐	100.000	99.174	332682.66	0.7809	P	0.9	-0.8
6	☐	200.000	200.404	659033.19	1.5765	P	0.7	0.2
7	☐	1.000						

y = 0.0079 * x + 0.0014
R = 1.0000
DL = 0.07896 ppb
BEC = 0.1789 ppb

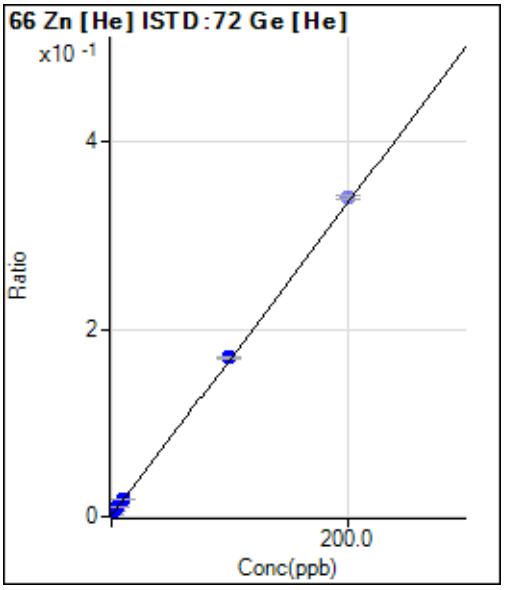
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2580.27	0.0018	P	4.4	
2	☐	2.000	1.982	6454.86	0.0044	P	11.0	-0.9
3	☐	5.000	4.923	11851.56	0.0081	P	5.3	-1.5
4	☐	10.000	9.910	20968.27	0.0145	P	1.5	-0.9
5	☐	100.000	100.013	184136.38	0.1298	P	1.6	0.0
6	☑	200.000		360493.98	0.2583	P	1.2	
7	☐	1.000						

y = 0.0013 * x + 0.0018
R = 1.0000
DL = 0.1867 ppb
BEC = 1.428 ppb

Weight: <None>
Min Conc: <None>

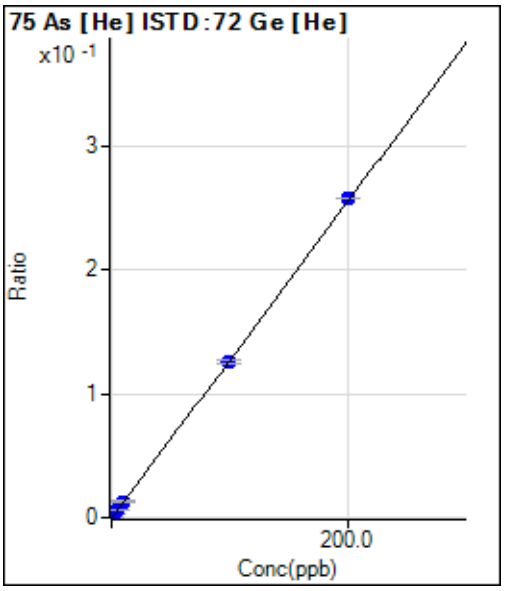


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1086.73	0.0025	P	4.1	
2	☐	2.000	1.851	2476.91	0.0056	P	9.6	-7.5
3	☐	5.000	4.757	4590.77	0.0105	P	3.5	-4.9
4	☐	10.000	9.646	8119.00	0.0186	P	1.1	-3.5
5	☐	100.000	100.051	72307.43	0.1697	P	0.7	0.1
6	☑	200.000		142633.57	0.3412	P	0.8	
7	☐	1.000						

y = 0.0017 * x + 0.0025
R = 1.0000
DL = 0.1852 ppb
BEC = 1.507 ppb

Weight: <None>
Min Conc: <None>

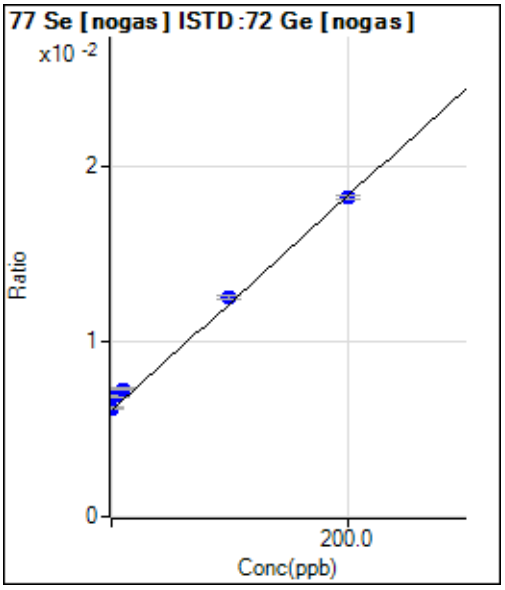
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	256.67	0.0006	P	18.0	
2	☐	2.000	1.906	1338.96	0.0030	P	2.4	-4.7
3	☐	5.000	4.704	2901.41	0.0066	P	2.1	-5.9
4	☐	10.000	9.771	5706.67	0.0131	P	1.8	-2.3
5	☐	100.000	98.002	53695.29	0.1260	P	2.1	-2.0
6	☐	200.000	201.019	107807.88	0.2579	P	0.2	0.5
7	☐	1.000						

y = 0.0013 * x + 5.9474E-004
R = 0.9999
DL = 0.2506 ppb
BEC = 0.4646 ppb

Weight: <None>
Min Conc: <None>

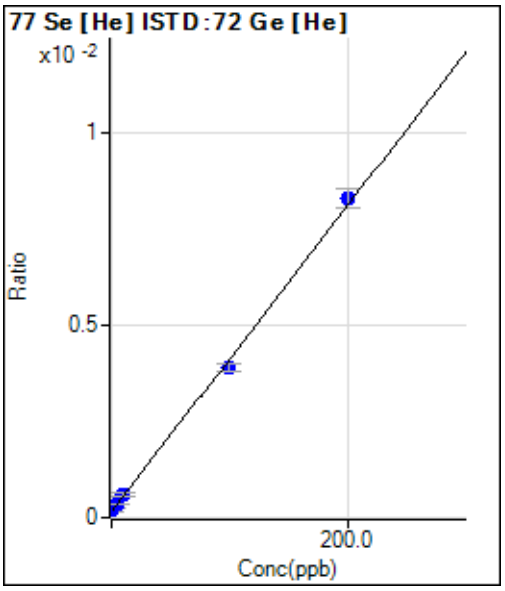


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8696.01	0.0062	P	2.0	
2	☐	2.000	13.085	10297.04	0.0070	P	2.7	554.2
3	☐	5.000	11.984	10050.24	0.0069	P	1.7	139.7
4	☐	10.000	18.495	10533.87	0.0073	P	1.5	84.9
5	☐	100.000	103.699	17724.17	0.0125	P	1.3	3.7
6	☐	200.000	197.440	25435.47	0.0182	P	1.1	-1.3
7	☐	1.000						

y = 6.1113E-005 * x + 0.0062
R = 0.9988
DL = 6.036 ppb
BEC = 100.8 ppb

Weight: <None>
Min Conc: <None>

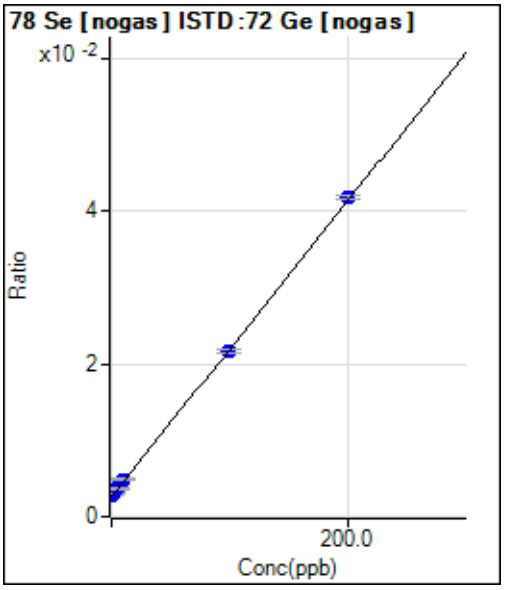
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	86.67	0.0002	P	29.4	
2	☐	2.000	2.742	136.67	0.0003	P	30.8	37.1
3	☐	5.000	3.929	156.67	0.0004	P	9.6	-21.4
4	☐	10.000	9.778	256.68	0.0006	P	18.7	-2.2
5	☐	100.000	92.963	1660.12	0.0039	P	5.3	-7.0
6	☐	200.000	203.549	3467.13	0.0083	P	6.4	1.8
7	☐	1.000						

y = 3.9759E-005 * x + 2.0103E-004
R = 0.9991
DL = 4.457 ppb
BEC = 5.056 ppb

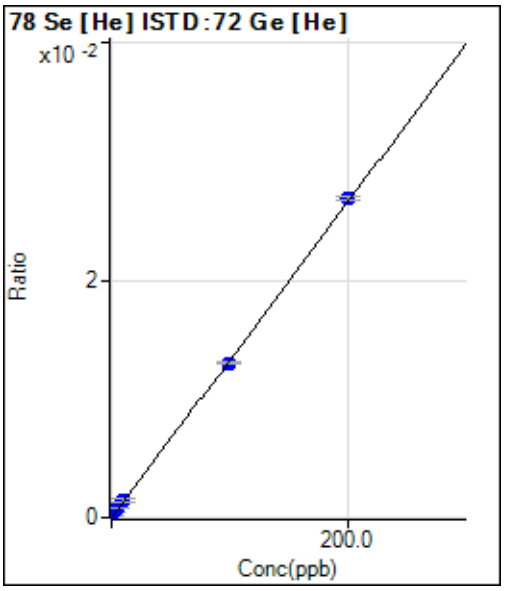
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4003.96	0.0028	P	6.2	
2	☐	2.000	1.315	4574.13	0.0031	P	4.2	-34.3
3	☐	5.000	4.325	5357.73	0.0037	P	10.4	-13.5
4	☐	10.000	10.685	7088.49	0.0049	P	5.7	6.9
5	☐	100.000	97.212	30735.47	0.0217	P	2.1	-2.8
6	☐	200.000	201.383	58411.66	0.0419	P	1.0	0.7
7	☐	1.000						

y = 1.9374E-004 * x + 0.0028
R = 0.9999
DL = 2.744 ppb
BEC = 14.64 ppb

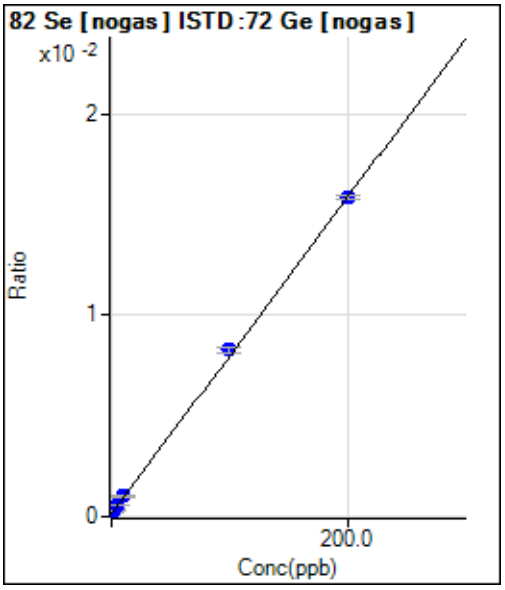
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	50.67	0.0001	P	9.5	
2	☐	2.000	2.414	193.33	0.0004	P	9.4	20.7
3	☐	5.000	5.039	345.34	0.0008	P	7.6	0.8
4	☐	10.000	10.049	632.68	0.0015	P	12.1	0.5
5	☐	100.000	97.129	5551.05	0.0130	P	0.9	-2.9
6	☐	200.000	201.428	11242.28	0.0269	P	1.8	0.7
7	☐	1.000						

y = 1.3293E-004 * x + 1.1741E-004
R = 0.9998
DL = 0.2525 ppb
BEC = 0.8832 ppb

Weight: <None>
Min Conc: <None>

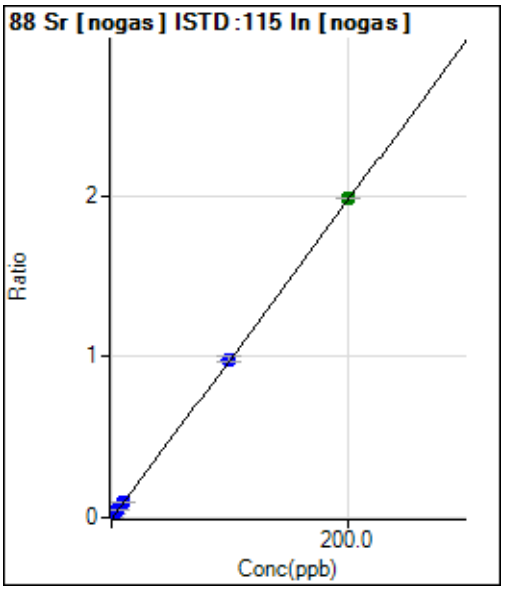


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	316.68	0.0002	P	12.5	
2	☐	2.000	1.214	473.35	0.0003	P	13.6	-39.3
3	☐	5.000	4.269	816.71	0.0006	P	0.8	-14.6
4	☐	10.000	9.964	1456.77	0.0010	P	7.2	-0.4
5	☐	100.000	102.414	11734.86	0.0083	P	2.8	2.4
6	☐	200.000	198.821	22123.51	0.0159	P	1.4	-0.6
7	☐	1.000						

y = 7.8600E-005 * x + 2.2444E-004
R = 0.9999
DL = 1.074 ppb
BEC = 2.855 ppb

Weight: <None>
Min Conc: <None>

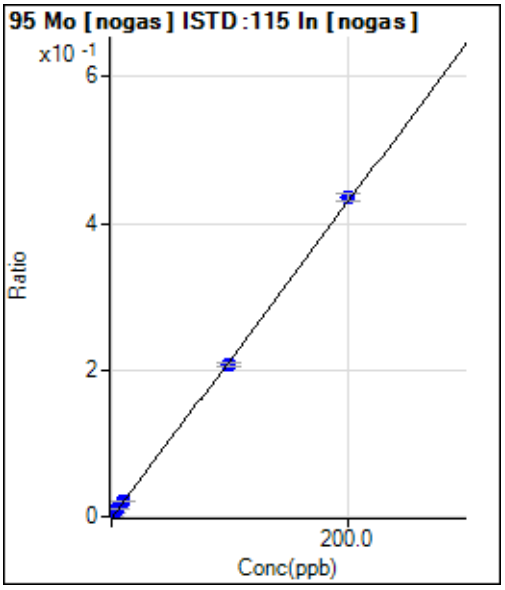
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1363.42	0.0008	P	5.1	
2	☐	2.000	1.960	35259.14	0.0202	P	2.4	-2.0
3	☐	5.000	4.875	84993.69	0.0491	P	1.0	-2.5
4	☐	10.000	9.795	168530.76	0.0978	P	0.5	-2.1
5	☐	100.000	99.314	1655391.38	0.9841	P	3.0	-0.7
6	☐	200.000	200.357	3247327.04	1.9845	A	0.4	0.2
7	☐	1.000						

y = 0.0099 * x + 8.1334E-004
R = 1.0000
DL = 0.01246 ppb
BEC = 0.08215 ppb

Weight: <None>
Min Conc: <None>

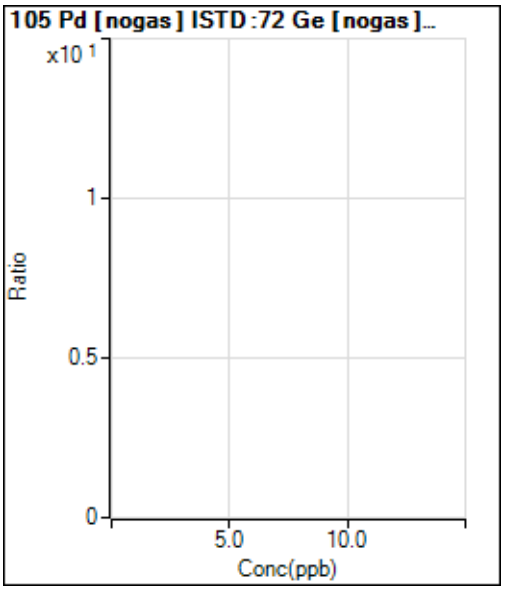


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	363.35	0.0002	P	23.4	
2	☐	2.000	1.844	7315.29	0.0042	P	2.2	-7.8
3	☐	5.000	4.533	17307.02	0.0100	P	2.7	-9.3
4	☐	10.000	9.631	36185.10	0.0210	P	2.4	-3.7
5	☐	100.000	96.132	349189.53	0.2076	P	2.4	-3.9
6	☐	200.000	201.966	713267.46	0.4359	P	1.9	1.0
7	☐	1.000						

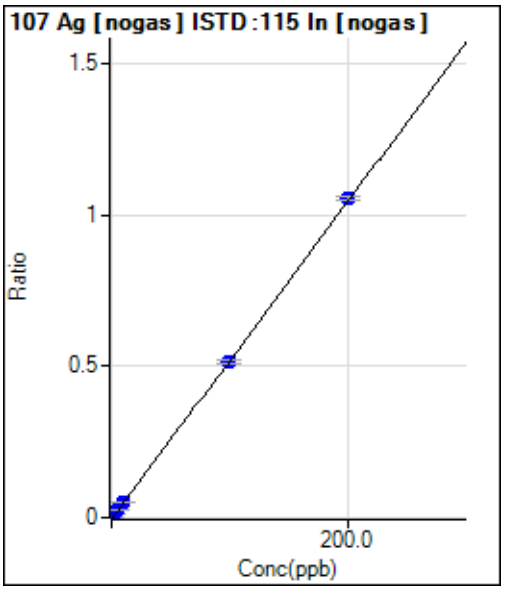
y = 0.0022 * x + 2.1679E-004
R = 0.9997
DL = 0.07046 ppb
BEC = 0.1005 ppb

Weight: <None>
Min Conc: <None>

Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000						
2	☐	2.000						
3	☐	5.000						
4	☐	10.000						
5	☐	100.000						
6	☐	200.000						
7	☐	1.000						



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	150.00	0.0001	P	19.8	
2	☐	2.000	1.978	18261.73	0.0105	P	0.1	-1.1
3	☐	5.000	4.901	44702.39	0.0258	P	0.6	-2.0
4	☐	10.000	9.870	89409.60	0.0519	P	2.5	-1.3
5	☐	100.000	97.922	864654.02	0.5140	P	2.7	-2.1
6	☐	200.000	201.048	1726840.03	1.0552	P	1.4	0.5
7	☐	1.000						

y = 0.0052 * x + 8.9475E-005

R = 0.9999

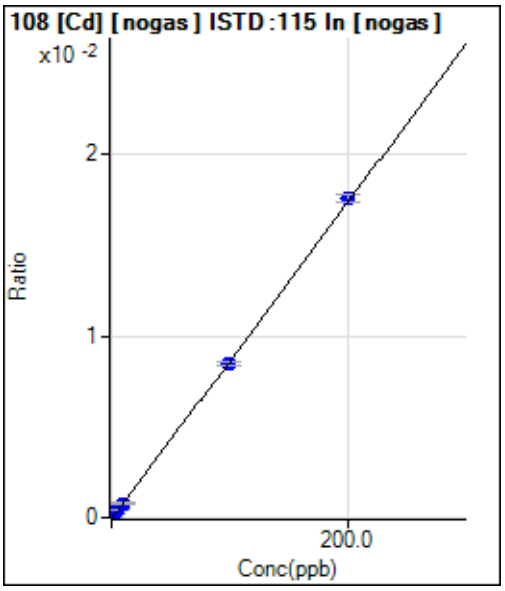
DL = 0.0101 ppb

BEC = 0.01705 ppb

Weight: <None>

Min Conc: <None>

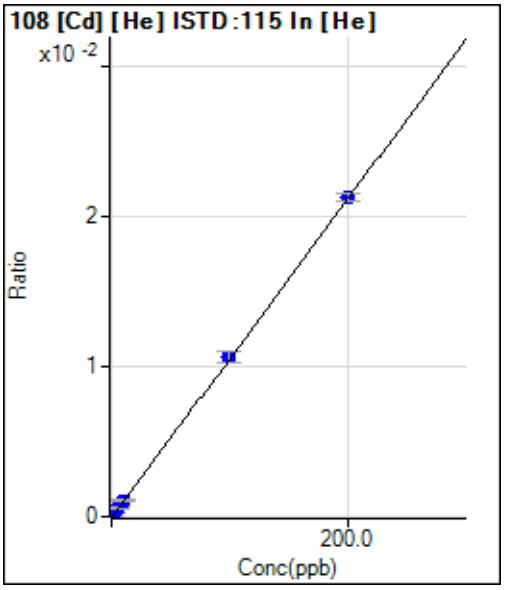
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3.33	0.0000	P	173.2	
2	☐	2.000	2.253	346.68	0.0002	P	12.1	12.6
3	☐	5.000	5.207	790.03	0.0005	P	6.5	4.1
4	☐	10.000	8.480	1276.74	0.0007	P	14.2	-15.2
5	☐	100.000	97.005	14240.54	0.0085	P	3.3	-3.0
6	☐	200.000	201.566	28778.87	0.0176	P	2.5	0.8
7	☐	1.000						

y = 8.7248E-005 * x + 2.0017E-006
R = 0.9998
DL = 0.1192 ppb
BEC = 0.02294 ppb

Weight: <None>
Min Conc: <None>

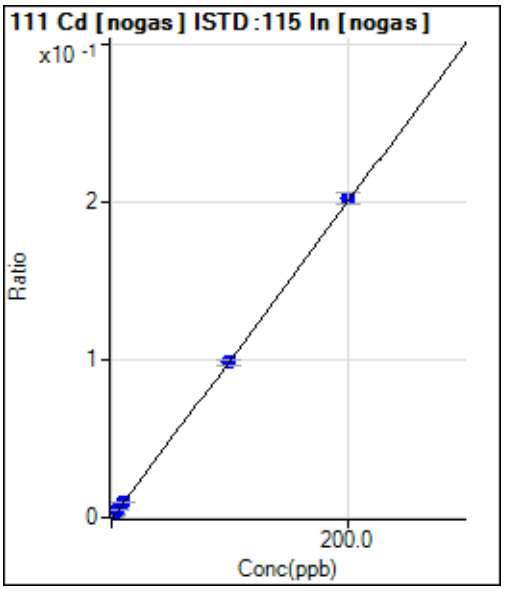


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10.00	0.0000	P	101.0	
2	☐	2.000	2.181	173.34	0.0002	P	31.5	9.0
3	☐	5.000	5.131	390.01	0.0006	P	28.8	2.6
4	☐	10.000	9.985	743.37	0.0011	P	11.5	-0.2
5	☐	100.000	99.966	6991.83	0.0107	P	6.6	0.0
6	☐	200.000	200.013	13813.42	0.0213	P	2.9	0.0
7	☐	1.000						

y = 1.0647E-004 * x + 1.4668E-005
R = 1.0000
DL = 0.4175 ppb
BEC = 0.1378 ppb

Weight: <None>
Min Conc: <None>

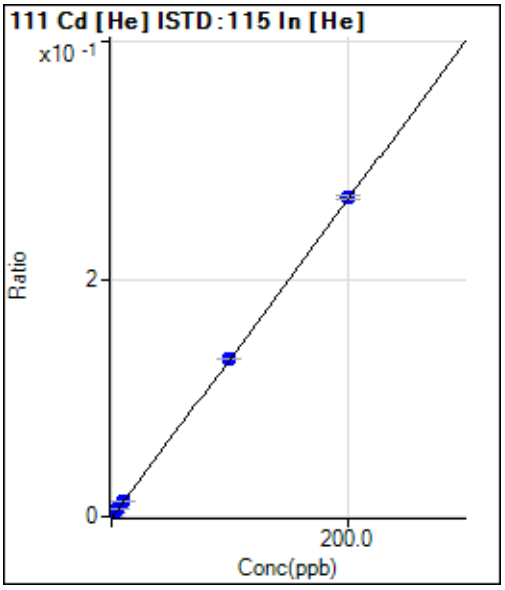
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	23.09	0.0000	P	51.5	
2	☐	2.000	1.872	3308.55	0.0019	P	8.5	-6.4
3	☐	5.000	4.957	8658.92	0.0050	P	7.9	-0.9
4	☐	10.000	9.657	16771.61	0.0097	P	0.5	-3.4
5	☐	100.000	97.628	165289.26	0.0983	P	3.0	-2.4
6	☐	200.000	201.205	331373.14	0.2025	P	3.1	0.6
7	☐	1.000						

y = 0.0010 * x + 1.3750E-005
R = 0.9999
DL = 0.02113 ppb
BEC = 0.01366 ppb

Weight: <None>
Min Conc: <None>

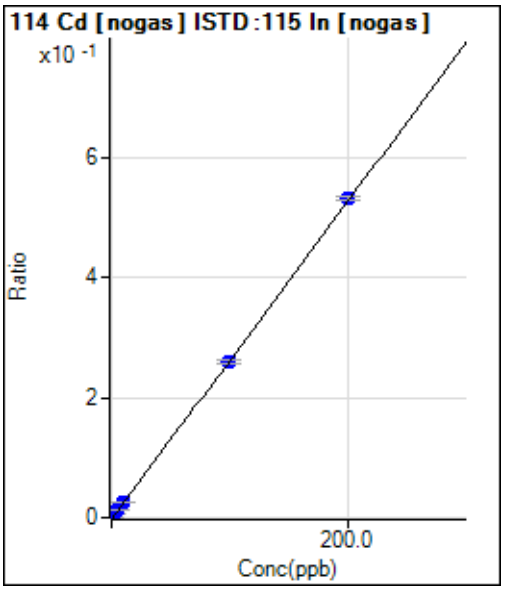


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-4.06	0.0000	P	-158.	
2	☐	2.000	2.017	1894.20	0.0027	P	10.6	0.9
3	☐	5.000	4.678	4355.73	0.0063	P	1.2	-6.4
4	☐	10.000	9.538	8832.37	0.0128	P	3.4	-4.6
5	☐	100.000	98.870	87007.68	0.1326	P	0.8	-1.1
6	☐	200.000	200.596	174395.61	0.2691	P	1.0	0.3
7	☐	1.000						

y = 0.0013 * x - 6.0090E-006
R = 1.0000
DL = 0.02127 ppb
BEC = -0.004479 ppb

Weight: <None>
Min Conc: <None>

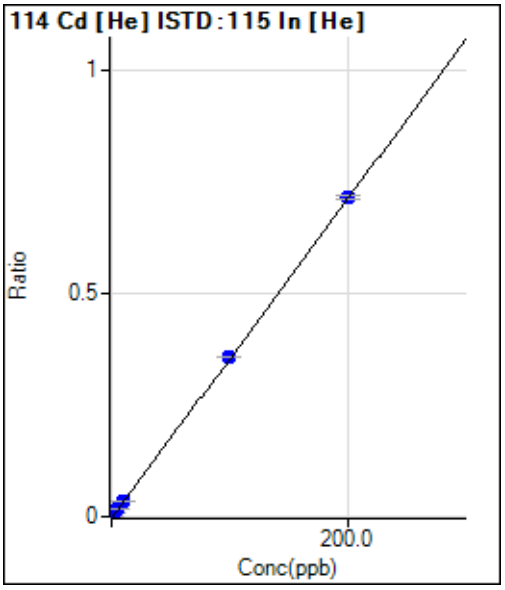
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	90.00	0.0001	P	22.0	
2	☐	2.000	1.946	9083.00	0.0052	P	4.4	-2.7
3	☐	5.000	4.829	22240.66	0.0128	P	1.7	-3.4
4	☐	10.000	9.650	44137.46	0.0256	P	2.1	-3.5
5	☐	100.000	98.153	437445.42	0.2600	P	2.4	-1.8
6	☐	200.000	200.946	871081.78	0.5323	P	1.2	0.5
7	☐	1.000						

y = 0.0026 * x + 5.3683E-005
R = 0.9999
DL = 0.01336 ppb
BEC = 0.02027 ppb

Weight: <None>
Min Conc: <None>

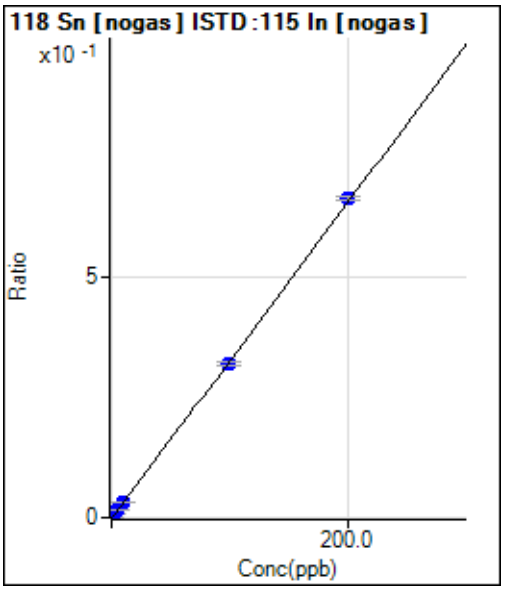


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	43.33	0.0001	P	69.6	
2	☐	2.000	1.973	4990.97	0.0071	P	1.0	-1.3
3	☐	5.000	4.732	11791.65	0.0170	P	1.9	-5.4
4	☐	10.000	9.531	23559.43	0.0341	P	1.8	-4.7
5	☐	100.000	100.060	234585.54	0.3576	P	0.8	0.1
6	☐	200.000	200.001	463159.81	0.7147	P	1.0	0.0
7	☐	1.000						

y = 0.0036 * x + 6.3156E-005
R = 1.0000
DL = 0.03691 ppb
BEC = 0.01768 ppb

Weight: <None>
Min Conc: <None>

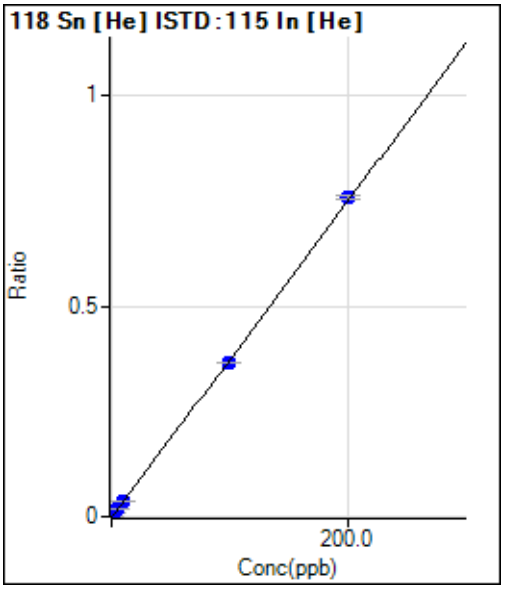
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2213.55	0.0013	P	7.4	
2	☐	2.000	1.740	12258.77	0.0070	P	3.5	-13.0
3	☐	5.000	4.640	28655.42	0.0165	P	2.2	-7.2
4	☐	10.000	9.444	55687.71	0.0323	P	1.5	-5.6
5	☐	100.000	96.758	536381.97	0.3188	P	2.4	-3.2
6	☐	200.000	201.660	1085105.58	0.6631	P	1.5	0.8
7	☐	1.000						

y = 0.0033 * x + 0.0013
R = 0.9998
DL = 0.08991 ppb
BEC = 0.4025 ppb

Weight: <None>
Min Conc: <None>

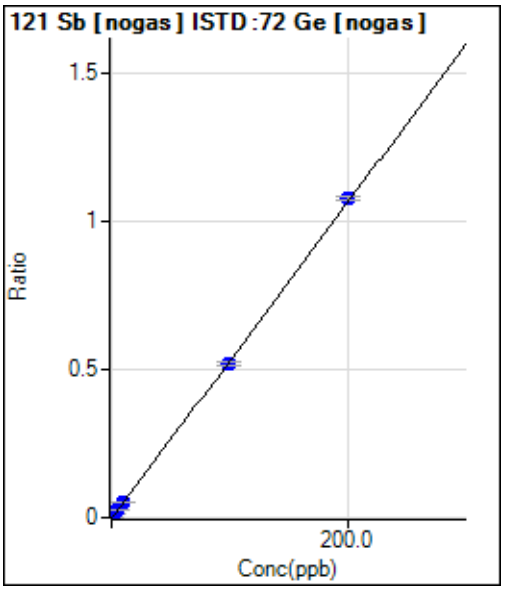


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1073.40	0.0016	P	9.8	
2	☐	2.000	1.663	5491.16	0.0078	P	6.5	-16.9
3	☐	5.000	4.415	12625.68	0.0182	P	3.8	-11.7
4	☐	10.000	9.305	25239.12	0.0366	P	2.1	-6.9
5	☐	100.000	97.026	240337.00	0.3664	P	0.7	-3.0
6	☐	200.000	201.540	492083.14	0.7593	P	0.8	0.8
7	☐	1.000						

y = 0.0038 * x + 0.0016
R = 0.9999
DL = 0.1226 ppb
BEC = 0.4186 ppb

Weight: <None>
Min Conc: <None>

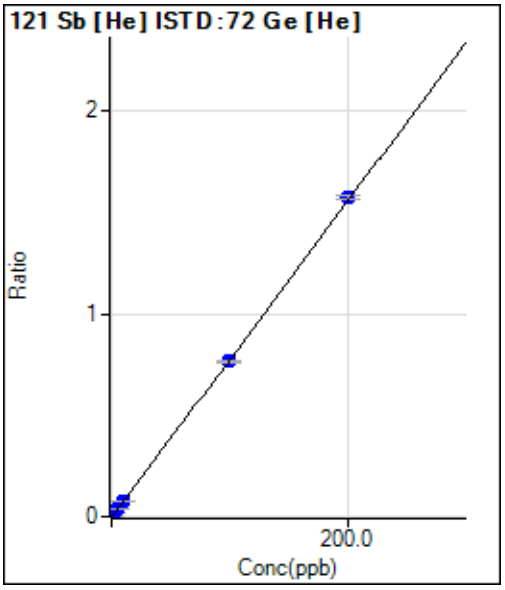
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3037.04	0.0022	P	3.2	
2	☐	2.000	1.767	17157.19	0.0116	P	1.6	-11.6
3	☐	5.000	4.594	38929.43	0.0267	P	2.5	-8.1
4	☐	10.000	9.611	77306.64	0.0535	P	1.8	-3.9
5	☐	100.000	96.936	737654.52	0.5201	P	2.6	-3.1
6	☐	200.000	201.564	1506100.97	1.0791	P	1.6	0.8
7	☐	1.000						

y = 0.0053 * x + 0.0022
R = 0.9998
DL = 0.03909 ppb
BEC = 0.4026 ppb

Weight: <None>
Min Conc: <None>

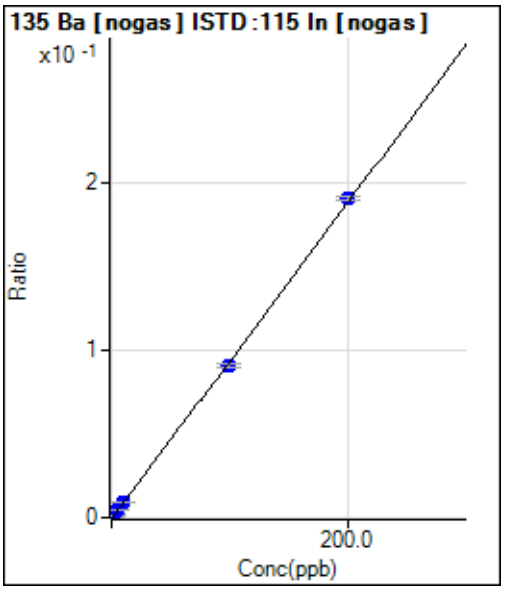


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1160.07	0.0027	P	7.7	
2	☐	2.000	1.892	7715.54	0.0175	P	2.9	-5.4
3	☐	5.000	4.590	16916.87	0.0386	P	1.7	-8.2
4	☐	10.000	9.671	34113.98	0.0783	P	1.0	-3.3
5	☐	100.000	97.464	325851.18	0.7649	P	1.0	-2.5
6	☐	200.000	201.296	659151.85	1.5768	P	1.2	0.6
7	☐	1.000						

y = 0.0078 * x + 0.0027
R = 0.9999
DL = 0.07909 ppb
BEC = 0.3438 ppb

Weight: <None>
Min Conc: <None>

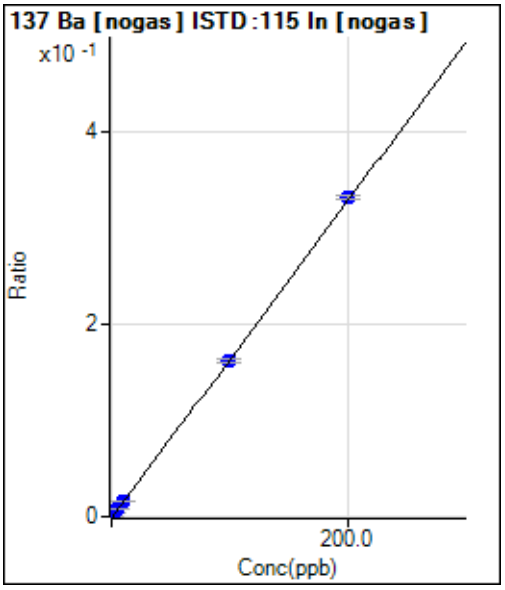
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	180.00	0.0001	P	36.4	
2	☐	2.000	1.731	3047.04	0.0017	P	3.6	-13.4
3	☐	5.000	4.851	8142.45	0.0047	P	2.1	-3.0
4	☐	10.000	9.573	15812.34	0.0092	P	1.8	-4.3
5	☐	100.000	96.501	153958.99	0.0915	P	2.6	-3.5
6	☐	200.000	201.777	312966.52	0.1912	P	1.6	0.9
7	☐	1.000						

y = 9.4727E-004 * x + 1.0743E-004
R = 0.9998
DL = 0.124 ppb
BEC = 0.1134 ppb

Weight: <None>
Min Conc: <None>

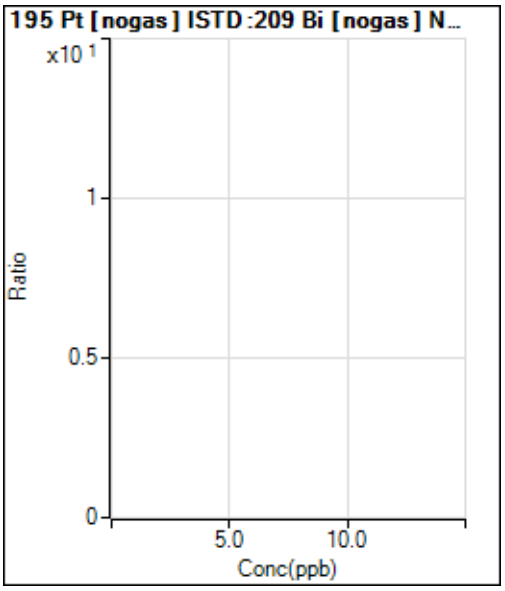


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	330.01	0.0002	P	23.2	
2	☐	2.000	1.878	5747.91	0.0033	P	9.7	-6.1
3	☐	5.000	4.734	13877.03	0.0080	P	8.2	-5.3
4	☐	10.000	9.751	28101.29	0.0163	P	0.6	-2.5
5	☐	100.000	97.633	271627.90	0.1615	P	2.4	-2.4
6	☐	200.000	201.204	544185.04	0.3325	P	1.4	0.6
7	☐	1.000						

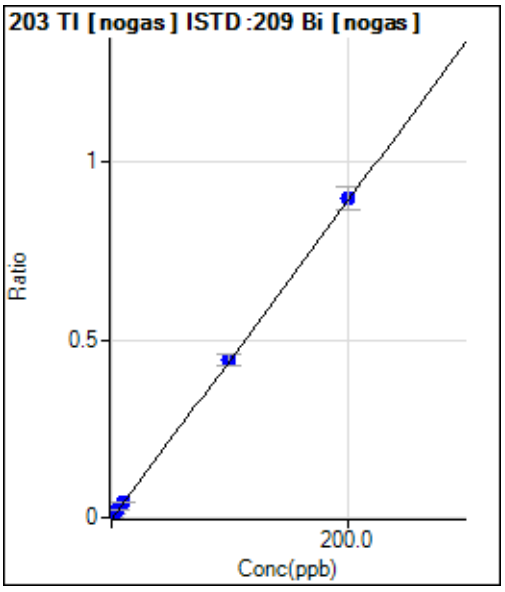
y = 0.0017 * x + 1.9677E-004
R = 0.9999
DL = 0.08289 ppb
BEC = 0.1191 ppb

Weight: <None>
Min Conc: <None>

Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000						
2	☐	2.000						
3	☐	5.000						
4	☐	10.000						
5	☐	100.000						
6	☐	200.000						
7	☐	1.000						

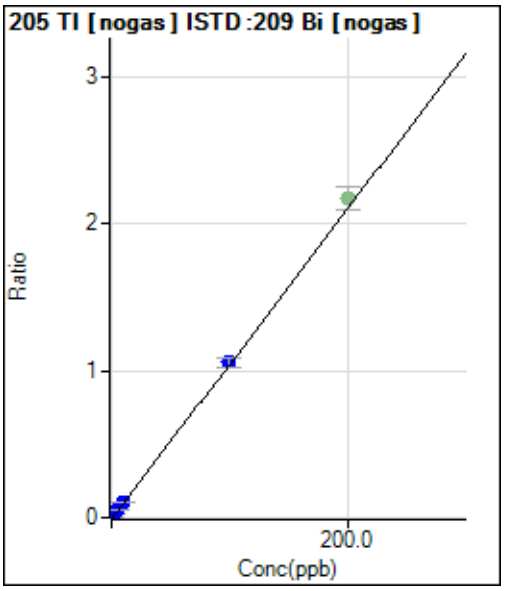


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	220.01	0.0001	P	13.2	
2	☐	2.000	1.932	14981.71	0.0088	P	8.4	-3.4
3	☐	5.000	4.779	36405.43	0.0215	P	8.1	-4.4
4	☐	10.000	9.551	73111.75	0.0429	P	7.4	-4.5
5	☐	100.000	98.689	736785.17	0.4420	P	7.6	-1.3
6	☐	200.000	200.684	1465250.08	0.8988	P	6.9	0.3
7	☐	1.000						

y = 0.0045 * x + 1.3504E-004
R = 1.0000
DL = 0.01194 ppb
BEC = 0.03016 ppb

Weight: <None>
Min Conc: <None>

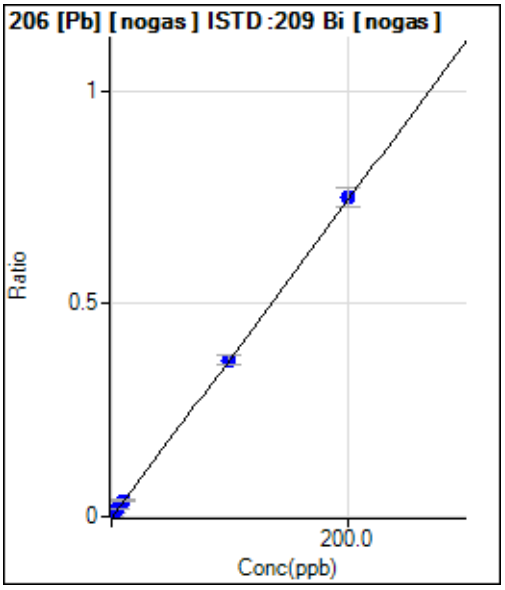
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	426.68	0.0003	P	7.1	
2	☐	2.000	1.965	35840.81	0.0210	P	9.9	-1.7
3	☐	5.000	4.889	87848.08	0.0519	P	7.7	-2.2
4	☐	10.000	9.783	176634.70	0.1037	P	7.7	-2.2
5	☐	100.000	100.028	1763659.97	1.0577	P	6.4	0.0
6	☑	200.000		3544319.32	2.1742	A	7.2	
7	☐	1.000						

y = 0.0106 * x + 2.6260E-004
R = 1.0000
DL = 0.005277 ppb
BEC = 0.02484 ppb

Weight: <None>
Min Conc: <None>

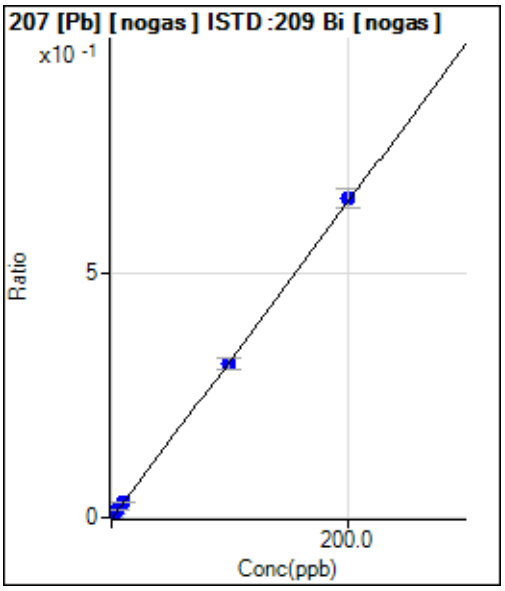


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	816.70	0.0005	P	13.5	
2	☐	2.000	2.003	13593.67	0.0080	P	9.3	0.1
3	☐	5.000	4.949	32094.72	0.0190	P	7.2	-1.0
4	☐	10.000	9.715	62573.51	0.0368	P	9.4	-2.9
5	☐	100.000	98.264	612192.10	0.3672	P	6.8	-1.7
6	☐	200.000	200.883	1223063.11	0.7501	P	6.5	0.4
7	☐	1.000						

y = 0.0037 * x + 5.0401E-004
R = 0.9999
DL = 0.05468 ppb
BEC = 0.1351 ppb

Weight: <None>
Min Conc: <None>

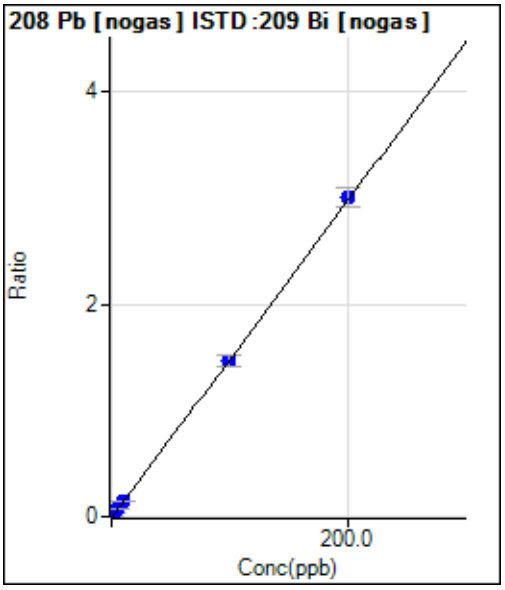
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	560.02	0.0003	P	3.6	
2	☐	2.000	2.041	11828.62	0.0069	P	10.6	2.1
3	☐	5.000	4.845	27107.21	0.0160	P	5.2	-3.1
4	☐	10.000	9.800	54616.08	0.0320	P	6.3	-2.0
5	☐	100.000	97.055	523932.67	0.3142	P	6.4	-2.9
6	☐	200.000	201.486	1062939.88	0.6519	P	6.5	0.7
7	☐	1.000						

y = 0.0032 * x + 3.4487E-004
R = 0.9998
DL = 0.01139 ppb
BEC = 0.1066 ppb

Weight: <None>
Min Conc: <None>

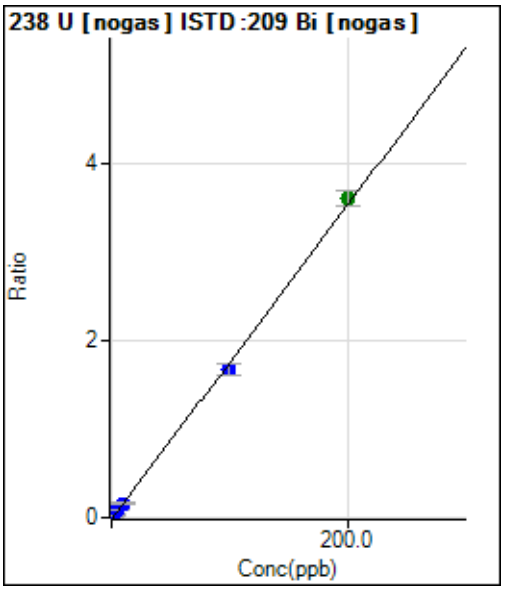


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2930.17	0.0018	P	6.9	
2	☐	2.000	1.990	53735.40	0.0315	P	8.6	-0.5
3	☐	5.000	4.841	125368.80	0.0741	P	7.0	-3.2
4	☐	10.000	9.813	252849.75	0.1484	P	7.2	-1.9
5	☐	100.000	97.802	2438513.50	1.4627	P	6.9	-2.2
6	☐	200.000	201.112	4901202.48	3.0058	P	6.3	0.6
7	☐	1.000						

y = 0.0149 * x + 0.0018
R = 0.9999
DL = 0.02501 ppb
BEC = 0.1208 ppb

Weight: <None>
Min Conc: <None>

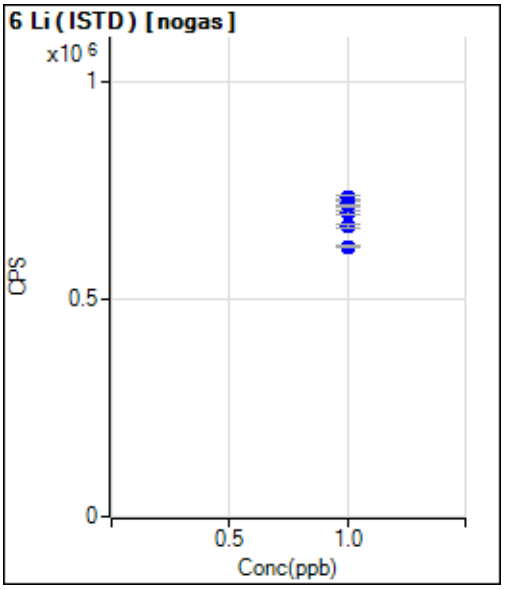
Calibration for 017_ICV.d



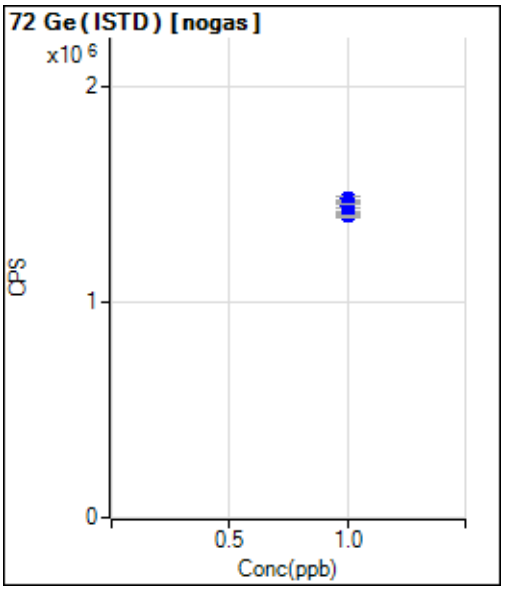
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	616.69	0.0004	P	17.9	
2	☐	2.000	1.795	55040.33	0.0323	P	7.6	-10.3
3	☐	5.000	4.482	135400.09	0.0800	P	7.3	-10.4
4	☐	10.000	8.994	273018.95	0.1602	P	7.5	-10.1
5	☐	100.000	93.943	2783680.06	1.6701	P	7.7	-6.1
6	☐	200.000	203.094	5888543.25	3.6102	A	5.3	1.5
7	☐	1.000						

y = 0.0178 * x + 3.7892E-004
R = 0.9994
DL = 0.01144 ppb
BEC = 0.02132 ppb

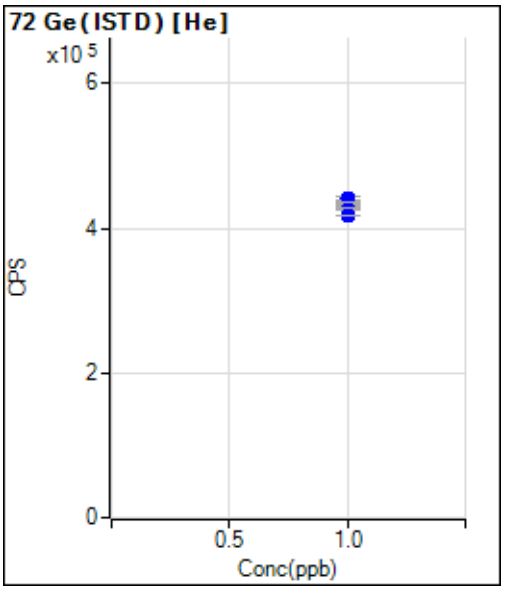
Weight: <None>
Min Conc: <None>



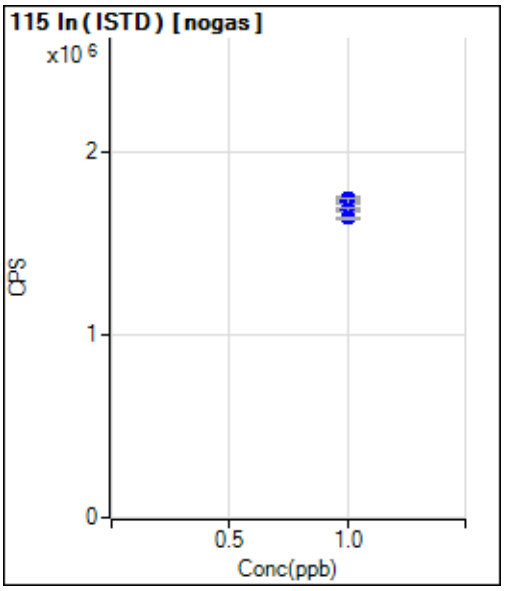
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		699034.34		P	1.2	
2	☐	1.000		733460.50		P	0.8	
3	☐	1.000		720402.58		P	0.9	
4	☐	1.000		713912.38		P	0.8	
5	☐	1.000		666404.31		P	0.9	
6	☐	1.000		619983.59		P	0.5	
7	☐	1.000						



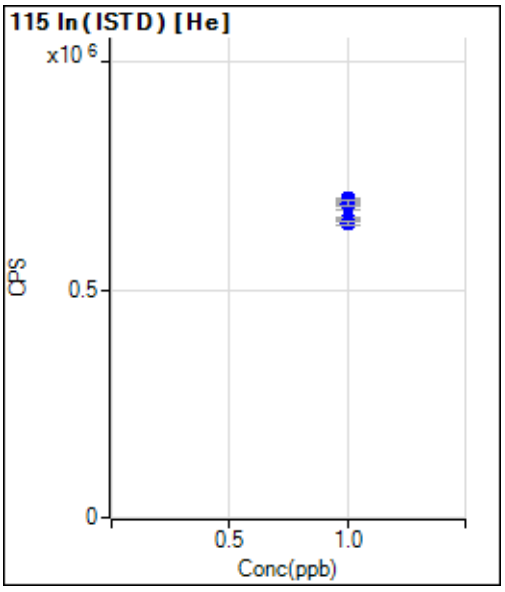
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1411661.18		P	0.9	
2	☐	1.000		1479797.90		P	0.8	
3	☐	1.000		1458344.20		P	0.7	
4	☐	1.000		1445082.95		P	1.0	
5	☐	1.000		1418305.50		P	0.3	
6	☐	1.000		1395632.64		P	0.4	
7	☐	1.000						



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		431445.49		P	0.4	
2	☐	1.000		441263.66		P	0.8	
3	☐	1.000		438525.16		P	0.6	
4	☐	1.000		435571.81		P	0.7	
5	☐	1.000		426042.18		P	0.4	
6	☐	1.000		418029.37		P	0.1	
7	☐	1.000						

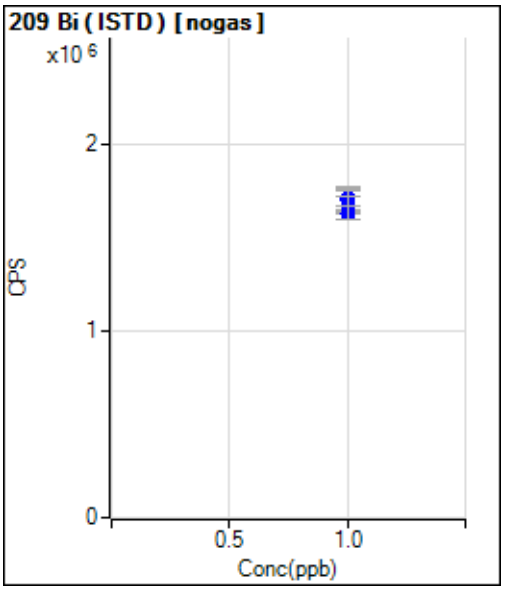


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1676050.45		P	0.6	
2	☐	1.000		1744130.85		P	1.4	
3	☐	1.000		1731832.34		P	0.8	
4	☐	1.000		1723589.46		P	1.8	
5	☐	1.000		1682496.93		P	1.0	
6	☐	1.000		1636372.93		P	0.6	
7	☐	1.000						



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		682631.42		P	1.7	
2	☐	1.000		701617.46		P	0.4	
3	☐	1.000		694798.20		P	0.3	
4	☐	1.000		690473.65		P	1.5	
5	☐	1.000		656022.74		P	0.4	
6	☐	1.000		648119.65		P	1.2	
7	☐	1.000						

Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1624905.08		P	3.2	
2	☐	1.000		1711278.88		P	7.0	
3	☐	1.000		1697002.68		P	6.8	
4	☐	1.000		1709605.71		P	6.8	
5	☐	1.000		1671467.00		P	5.6	
6	☐	1.000		1633684.09		P	4.5	
7	☐	1.000						

Calibration Blank Report

Sample Table

Sample Name	CAL BLK
Data File Name	010CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T11:45:15-05:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	nogas	62	27.37
B	11	1	nogas	17048	0.01
Al	27	1	nogas	41239	0.00
P	31	1	nogas	69882	0.00
Ti	47	1	nogas	180	5.35
Ni	60	1	nogas	533	2.00
Cu	63	1	nogas	6968	0.14
Zn	66	1	nogas	2580	0.17
Se	77	1	nogas	8696	0.03
Se	82	1	nogas	317	3.78
Sr	88	1	nogas	1363	0.41
Mo	95	1	nogas	363	6.44
Ag	107	1	nogas	150	13.33
Cd	111	1	nogas	23	224.49
Sn	118	1	nogas	2214	0.32
Sb	121	1	nogas	3037	0.12
Ba	137	1	nogas	330	7.17
Tl	205	1	nogas	427	1.77
Pb	208	1	nogas	2930	0.19
Li	7	1	nogas	53653	0.00
Na	23	2	He	52858	0.02
Mg	24	2	He	473	1.69
Al	27	2	He	1583	0.76
K	39	2	He	88103	0.00
Ca	43	2	He	50	138.56
Ca	44	2	He	800	1.65
V	51	2	He	418	43.02
Cr	52	2	He	7455	0.04
Mn	55	2	He	1260	0.91
Fe	56	2	He	13653	0.03
Co	59	2	He	173	5.08
Ni	60	2	He	160	17.90
Cu	63	2	He	607	2.47
Zn	66	2	He	1087	0.34
As	75	2	He	257	7.08
Sb	121	2	He	1160	0.67
Se	78	2	He	51	19.61

Calibration Blank Report

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Ge	72	1	nogas	1411661	0.86
In	115	1	nogas	1676050	0.59

Calibration Blank Report

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	6	1	nogas	699034	1.22
Bi	209	1	nogas	1624905	3.18
Ge	72	2	He	431445	0.40
In	115	2	He	682631	1.66

Calibration Standard Report

Sample Table

Sample Name	2/10/200
Data File Name	011CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T11:47:23-05:00
Sample Type	CalStd
Level	2
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	nogas	6658	0.07
B	11	1	nogas	32576	0.00
Al	27	1	nogas	42135	0.01
P	31	1	nogas	45468	0.00
Ti	47	1	nogas	2147	0.21
Ni	60	1	nogas	6448	0.11
Cu	63	1	nogas	20514	0.01
Zn	66	1	nogas	6455	0.16
Se	77	1	nogas	10297	0.02
Se	82	1	nogas	473	2.87
Sr	88	1	nogas	35259	0.00
Mo	95	1	nogas	7315	0.05
Ag	107	1	nogas	18262	0.01
Cd	111	1	nogas	3309	0.23
Sn	118	1	nogas	12259	0.02
Sb	121	1	nogas	17157	0.01
Ba	137	1	nogas	5748	0.15
Tl	205	1	nogas	35841	0.01
Pb	208	1	nogas	53735	0.00
Na	23	2	He	288475	0.00
Mg	24	2	He	129103	0.00
Al	27	2	He	1677	0.18
K	39	2	He	222430	0.00
Ca	43	2	He	430	1.43
Ca	44	2	He	7082	0.10
V	51	2	He	7383	0.29
Cr	52	2	He	15899	0.02
Mn	55	2	He	7916	0.08
Fe	56	2	He	802272	0.00
Co	59	2	He	11448	0.02
Ni	60	2	He	2974	0.24
Cu	63	2	He	7602	0.04
Zn	66	2	He	2477	0.40
As	75	2	He	1339	0.12
Sb	121	2	He	7716	0.03
Se	78	2	He	193	4.67

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag

Calibration Standard Report

Ge	72	1	nogas	1479798	0.81	1411661	104.83	70	120	
In	115	1	nogas	1744131	1.44	1676050	104.06	70	120	
Li	6	1	nogas	733461	0.75	699034	104.92	70	120	
Bi	209	1	nogas	1711279	6.97	1624905	105.32	70	120	
Ge	72	2	He	441264	0.82	431445	102.28	70	120	
In	115	2	He	701617	0.44	682631	102.78	70	120	

Calibration Standard Report

Sample Table

Sample Name	5/25/500
Data File Name	012CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T11:49:32-05:00
Sample Type	CalStd
Level	3
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	nogas	16214	0.02
B	11	1	nogas	60593	0.00
Al	27	1	nogas	71687	0.00
P	31	1	nogas	46534	0.00
Ti	47	1	nogas	4741	0.02
Ni	60	1	nogas	14581	0.01
Cu	63	1	nogas	39298	0.00
Zn	66	1	nogas	11852	0.04
Se	77	1	nogas	10050	0.01
Se	82	1	nogas	817	0.17
Sr	88	1	nogas	84994	0.00
Mo	95	1	nogas	17307	0.01
Ag	107	1	nogas	44702	0.00
Cd	111	1	nogas	8659	0.08
Sn	118	1	nogas	28655	0.01
Sb	121	1	nogas	38929	0.01
Ba	137	1	nogas	13877	0.05
Tl	205	1	nogas	87848	0.00
Pb	208	1	nogas	125369	0.00
Na	23	2	He	595523	0.00
Mg	24	2	He	314799	0.00
Al	27	2	He	2890	0.24
K	39	2	He	407228	0.00
Ca	43	2	He	943	0.58
Ca	44	2	He	15632	0.03
V	51	2	He	18888	0.05
Cr	52	2	He	28554	0.01
Mn	55	2	He	18014	0.01
Fe	56	2	He	1967362	0.00
Co	59	2	He	28057	0.00
Ni	60	2	He	7209	0.01
Cu	63	2	He	18021	0.00
Zn	66	2	He	4591	0.08
As	75	2	He	2901	0.09
Sb	121	2	He	16917	0.01
Se	78	2	He	345	2.35

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag

Calibration Standard Report

Ge	72	1	nogas	1458344	0.65	1411661	103.31	70	120	
In	115	1	nogas	1731832	0.83	1676050	103.33	70	120	
Li	6	1	nogas	720403	0.90	699034	103.06	70	120	
Bi	209	1	nogas	1697003	6.84	1624905	104.44	70	120	
Ge	72	2	He	438525	0.62	431445	101.64	70	120	
In	115	2	He	694798	0.31	682631	101.78	70	120	

Calibration Standard Report

Sample Table

Sample Name	10/50/1000
Data File Name	013CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T11:51:38-05:00
Sample Type	CalStd
Level	4
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	nogas	32504	0.00
B	11	1	nogas	109260	0.00
Al	27	1	nogas	121042	0.00
P	31	1	nogas	49066	0.00
Ti	47	1	nogas	9753	0.03
Ni	60	1	nogas	28344	0.01
Cu	63	1	nogas	73918	0.00
Zn	66	1	nogas	20968	0.00
Se	77	1	nogas	10534	0.01
Se	82	1	nogas	1457	0.56
Sr	88	1	nogas	168531	0.00
Mo	95	1	nogas	36185	0.01
Ag	107	1	nogas	89410	0.00
Cd	111	1	nogas	16772	0.01
Sn	118	1	nogas	55688	0.00
Sb	121	1	nogas	77307	0.00
Ba	137	1	nogas	28101	0.01
Tl	205	1	nogas	176635	0.00
Pb	208	1	nogas	252850	0.00
Na	23	2	He	1160470	0.00
Mg	24	2	He	628496	0.00
Al	27	2	He	5158	0.01
K	39	2	He	733393	0.00
Ca	43	2	He	1850	0.56
Ca	44	2	He	31767	0.00
V	51	2	He	37693	0.01
Cr	52	2	He	49598	0.00
Mn	55	2	He	34309	0.00
Fe	56	2	He	4115523	0.00
Co	59	2	He	54950	0.01
Ni	60	2	He	14284	0.03
Cu	63	2	He	35379	0.00
Zn	66	2	He	8119	0.02
As	75	2	He	5707	0.03
Sb	121	2	He	34114	0.00
Se	78	2	He	633	1.83

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag

Calibration Standard Report

Ge	72	1	nogas	1445083	1.02	1411661	102.37	70	120	
In	115	1	nogas	1723589	1.79	1676050	102.84	70	120	
Li	6	1	nogas	713912	0.80	699034	102.13	70	120	
Bi	209	1	nogas	1709606	6.76	1624905	105.21	70	120	
Ge	72	2	He	435572	0.73	431445	100.96	70	120	
In	115	2	He	690474	1.46	682631	101.15	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	014CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T11:53:44-05:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	nogas	316705	0.00
B	11	1	nogas	961000	0.00
Al	27	1	nogas	955197	0.00
P	31	1	nogas	73600	0.00
Ti	47	1	nogas	93235	0.00
Ni	60	1	nogas	267482	0.00
Cu	63	1	nogas	639148	0.00
Zn	66	1	nogas	184136	0.00
Se	77	1	nogas	17724	0.01
Se	82	1	nogas	11735	0.02
Sr	88	1	nogas	1655391	0.00
Mo	95	1	nogas	349190	0.00
Ag	107	1	nogas	864654	0.00
Cd	111	1	nogas	165289	0.00
Sn	118	1	nogas	536382	0.00
Sb	121	1	nogas	737655	0.00
Ba	137	1	nogas	271628	0.00
Tl	205	1	nogas	1763660	0.00
Pb	208	1	nogas	2438514	0.00
Na	23	2	He	10890658	0.00
Mg	24	2	He	6186647	0.00
Al	27	2	He	37312	0.01
K	39	2	He	6472898	0.00
Ca	43	2	He	17677	0.00
Ca	44	2	He	298587	0.00
V	51	2	He	367617	0.00
Cr	52	2	He	419087	0.00
Mn	55	2	He	324376	0.00
Fe	56	2	He	38429955	0.00
Co	59	2	He	534750	0.00
Ni	60	2	He	131665	0.00
Cu	63	2	He	332683	0.00
Zn	66	2	He	72307	0.00
As	75	2	He	53695	0.00
Sb	121	2	He	325851	0.00
Se	78	2	He	5551	0.02

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag

Calibration Standard Report

Ge	72	1	nogas	1418306	0.31	1411661	100.47	70	120	
In	115	1	nogas	1682497	1.01	1676050	100.38	70	120	
Li	6	1	nogas	666404	0.93	699034	95.33	70	120	
Bi	209	1	nogas	1671467	5.57	1624905	102.87	70	120	
Ge	72	2	He	426042	0.44	431445	98.75	70	120	
In	115	2	He	656023	0.38	682631	96.10	70	120	

Calibration Standard Report

Sample Table

Sample Name	200/1000/20K
Data File Name	015CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T11:55:49-05:00
Sample Type	CalStd
Level	6
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	nogas	632618	0.00
B	11	1	nogas	1956750	0.00
Al	27	1	nogas	1897297	0.00
P	31	1	nogas	103834	0.00
Ti	47	1	nogas	185986	0.00
Ni	60	1	nogas	530632	0.00
Cu	63	1	nogas	1265383	0.00
Zn	66	1	nogas	360494	0.00
Se	77	1	nogas	25435	0.00
Se	82	1	nogas	22124	0.01
Sr	88	1	nogas	3247327	0.00
Mo	95	1	nogas	713267	0.00
Ag	107	1	nogas	1726840	0.00
Cd	111	1	nogas	331373	0.00
Sn	118	1	nogas	1085106	0.00
Sb	121	1	nogas	1506101	0.00
Ba	137	1	nogas	544185	0.00
Tl	205	1	nogas	3544319	0.00
Pb	208	1	nogas	4901202	0.00
Na	23	2	He	21657733	0.00
Mg	24	2	He	12222952	0.00
Al	27	2	He	75227	0.00
K	39	2	He	12800551	0.00
Ca	43	2	He	36046	0.00
Ca	44	2	He	601958	0.00
V	51	2	He	745642	0.00
Cr	52	2	He	837927	0.00
Mn	55	2	He	640564	0.00
Fe	56	2	He	75813591	0.00
Co	59	2	He	1068335	0.00
Ni	60	2	He	262228	0.00
Cu	63	2	He	659033	0.00
Zn	66	2	He	142634	0.00
As	75	2	He	107808	0.00
Sb	121	2	He	659152	0.00
Se	78	2	He	11242	0.02

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag

Calibration Standard Report

Ge	72	1	nogas	1395633	0.44	1411661	98.86	70	120	
In	115	1	nogas	1636373	0.60	1676050	97.63	70	120	
Li	6	1	nogas	619984	0.45	699034	88.69	70	120	
Bi	209	1	nogas	1633684	4.53	1624905	100.54	70	120	
Ge	72	2	He	418029	0.11	431445	96.89	70	120	
In	115	2	He	648120	1.19	682631	94.94	70	120	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICV
Data File Name	017_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T12:01:20-05:00
Sample Type	ICV
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	1	nogas	102.907	0.930	342520	0.91	100	102.9	90	110	
B	11	1	nogas	476.935	1.970	985074	1.21	500	95.4	90	110	
Al	27	1	nogas	108.007	1.782	1057530	1.12	100	108.0	90	110	
P	31	1	nogas	8258.563	2.076	302170	0.93	500	1651.7	90	110	ICV Main CR1 Failed
Ti	47	1	nogas	108.574	2.145	102799	1.47	100	108.6	90	110	
Ni	60	1	nogas	106.299	2.952	287488	2.27	100	106.3	90	110	
Cu	63	1	nogas	108.190	1.567	700100	1.03	100	108.2	90	110	
Zn	66	1	nogas	105.739	1.265	195627	1.36	100	105.7	90	110	
Se	77	1	nogas	84.028	4.920	16086	2.58	100	84.0	90	110	ICV Main CR1 Failed
Se	82	1	nogas	109.729	1.116	12602	1.24	100	109.7	90	110	
Sr	88	1	nogas	106.805	2.804	1787711	1.09	100	106.8	90	110	
Mo	95	1	nogas	101.258	3.809	369298	2.10	100	101.3	90	110	
Ag	107	1	nogas	102.616	3.517	909858	1.81	100	102.6	90	110	
Cd	111	1	nogas	106.665	3.195	181341	1.49	100	106.7	90	110	
Sn	118	1	nogas	107.220	2.088	596684	0.40	100	107.2	90	110	
Sb	121	1	nogas	107.418	1.605	820384	1.13	100	107.4	90	110	
Ba	137	1	nogas	104.659	3.156	292373	1.64	100	104.7	90	110	
Tl	205	1	nogas	109.194	9.242	1980917	2.50	100	109.2	90	110	
Pb	208	1	nogas	105.674	8.277	2652669	1.58	100	105.7	90	110	
U	238	1	nogas	95.815	8.196	2859595	1.56	100	95.8	90	110	
Li	7	1	nogas	99.829	0.816	1101334	0.46	100	99.8	90	110	
Ba	135	1	nogas	103.919	2.948	166477	1.37	100	103.9	90	110	
Tl	203	1	nogas	108.919	8.108	819033	1.81	100	108.9	90	110	
Na	23	2	He	10354.955	0.181	11453406	1.71	10000	103.5	90	110	
Mg	24	2	He	10393.359	1.534	6484557	1.35	10000	103.9	90	110	
Al	27	2	He	108.618	1.038	42078	1.86	100	108.6	90	110	
K	39	2	He	10210.301	0.902	6703714	1.08	10000	102.1	90	110	
Ca	43	2	He	10152.480	1.426	18582	0.11	10000	101.5	90	110	
Ca	44	2	He	10203.317	1.625	312542	0.44	10000	102.0	90	110	
V	51	2	He	106.173	0.620	402150	0.99	100	106.2	90	110	
Cr	52	2	He	105.430	0.855	452575	0.69	100	105.4	90	110	
Mn	55	2	He	105.804	1.767	346422	1.09	100	105.8	90	110	
Fe	56	2	He	10436.968	1.318	40408347	0.21	10000	104.4	90	110	
Co	59	2	He	106.348	1.365	578696	0.50	100	106.3	90	110	
Ni	60	2	He	105.437	1.684	140969	0.61	100	105.4	90	110	
Cu	63	2	He	107.235	1.707	360756	0.57	100	107.2	90	110	
Zn	66	2	He	104.770	2.261	76686	1.11	100	104.8	90	110	
As	75	2	He	104.781	0.706	57577	2.18	100	104.8	90	110	
Sb	121	2	He	107.761	1.645	361248	0.92	100	107.8	90	110	
Se	78	2	He	107.523	2.909	6157	1.74	100	107.5	90	110	
Ti	47	2	He	103.977	3.639	17237	2.15	100	104.0	90	110	

QC ISTD Table

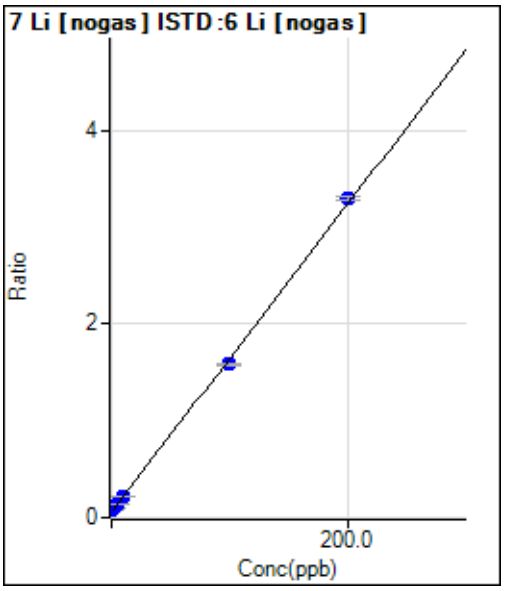
Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1424124	0.70	1411661	100.88	70	120	
In	115	1	nogas	1689869	1.74	1676050	100.82	70	120	
Li	6	1	nogas	661554	0.80	699034	94.64	70	120	
Bi	209	1	nogas	1685186	7.02	1624905	103.71	70	120	
Ge	72	2	He	427382	1.54	431445	99.06	70	120	
In	115	2	He	673532	0.69	682631	98.67	70	120	

Calibration for 017_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\061924A.b\
Analysis File: 061924A.batch.bin
DA Date-Time: 6/19/2024 11:54:57 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	010CALB.d	CAL BLK	6/19/2024 11:45:15 AM
2	011CALS.d	2/10/200	6/19/2024 11:47:23 AM
3	012CALS.d	5/25/500	6/19/2024 11:49:32 AM
4	013CALS.d	10/50/1000	6/19/2024 11:51:38 AM
5	014CALS.d	100/500/10K	6/19/2024 11:53:44 AM
6	015CALS.d	200/1000/20K	6/19/2024 11:55:49 AM
7			

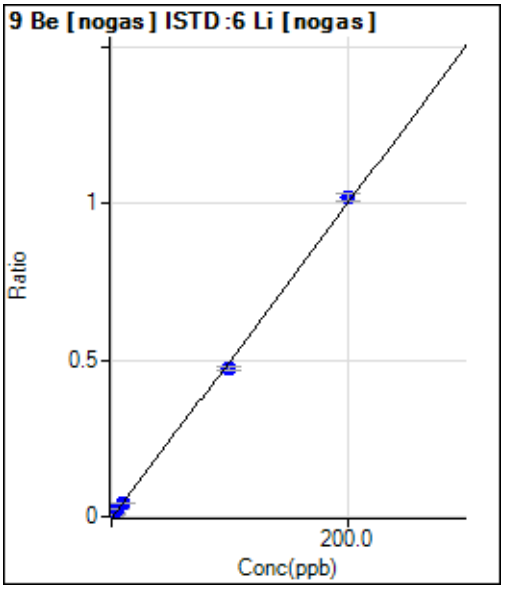
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	53653.39	0.0768	P	0.8	
2	☐	2.000	1.753	76754.10	0.1046	P	0.6	-12.3
3	☐	5.000	4.421	105951.31	0.1471	P	1.1	-11.6
4	☐	10.000	9.111	158259.36	0.2217	P	1.5	-8.9
5	☐	100.000	94.897	1057119.64	1.5864	P	0.8	-5.1
6	☐	200.000	202.613	2045821.74	3.2999	P	1.1	1.3
7	☐	1.000						

y = 0.0159 * x + 0.0768
R = 0.9996
DL = 0.113 ppb
BEC = 4.825 ppb

Weight: <None>
Min Conc: <None>

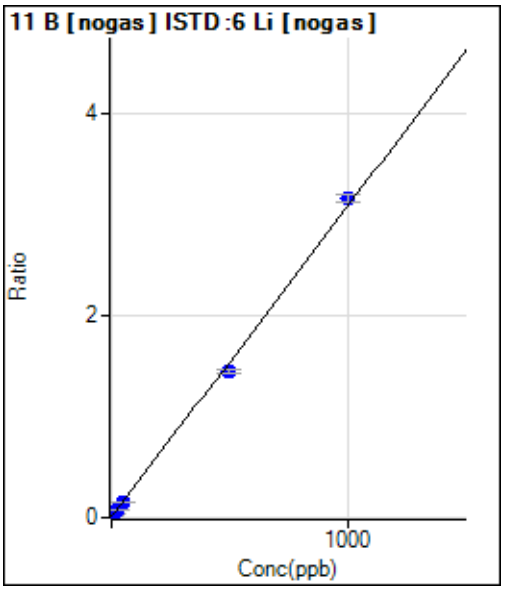


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	61.67	0.0001	P	17.7	
2	☐	2.000	1.787	6658.13	0.0091	P	5.1	-10.6
3	☐	5.000	4.457	16213.50	0.0225	P	3.4	-10.9
4	☐	10.000	9.034	32503.89	0.0455	P	2.1	-9.7
5	☐	100.000	94.468	316704.67	0.4753	P	2.2	-5.5
6	☐	200.000	202.830	632618.48	1.0204	P	1.9	1.4
7	☐	1.000						

y = 0.0050 * x + 8.8305E-005
R = 0.9995
DL = 0.00932 ppb
BEC = 0.01755 ppb

Weight: <None>
Min Conc: <None>

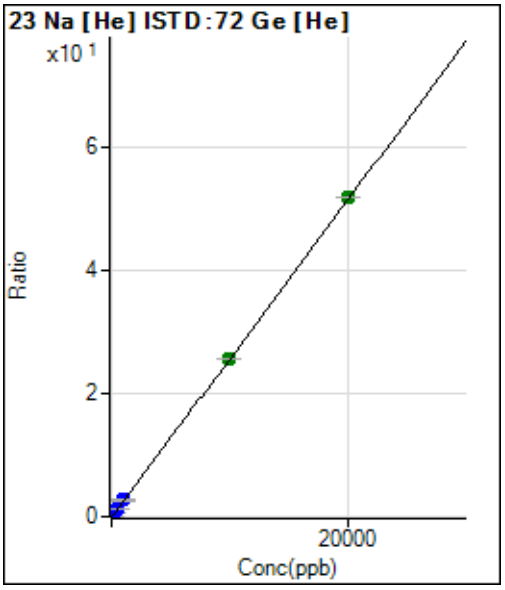
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	17047.78	0.0244	P	1.8	
2	☐	10.000	6.522	32575.68	0.0444	P	2.0	-34.8
3	☐	25.000	19.448	60592.52	0.0841	P	2.2	-22.2
4	☐	50.000	41.893	109260.25	0.1531	P	1.0	-16.2
5	☐	500.000	461.663	961000.09	1.4423	P	2.3	-7.7
6	☐	1000.000	1019.747	1956749.56	3.1563	P	2.3	2.0
7	☐	5.000						

y = 0.0031 * x + 0.0244
R = 0.9990
DL = 0.4352 ppb
BEC = 7.941 ppb

Weight: <None>
Min Conc: <None>

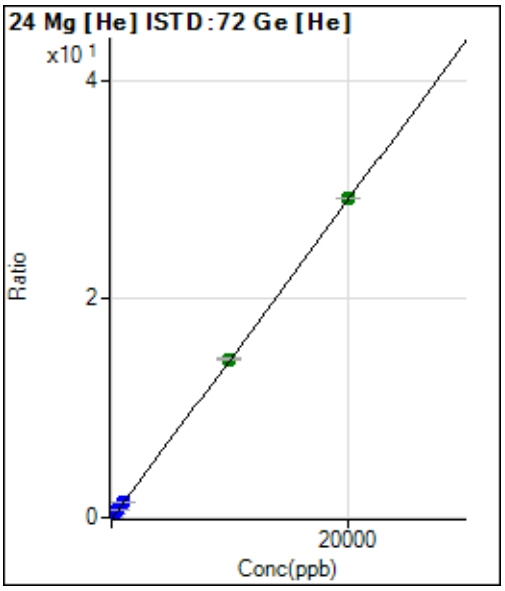


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	52857.75	0.1225	P	12.4	
2	☐	200.000	206.187	288475.11	0.6537	P	8.6	3.1
3	☐	500.000	479.617	595522.78	1.3581	P	1.9	-4.1
4	☐	1000.000	986.682	1160469.57	2.6644	P	1.4	-1.3
5	☐	10000.00	9875.169	10890658.17	25.5625	A	0.7	-1.2
6	☐	20000.00	20063.52	21657733.01	51.8093	A	0.6	0.3
7	☐	100.000						

y = 0.0026 * x + 0.1225
R = 1.0000
DL = 17.68 ppb
BEC = 47.57 ppb

Weight: <None>
Min Conc: <None>

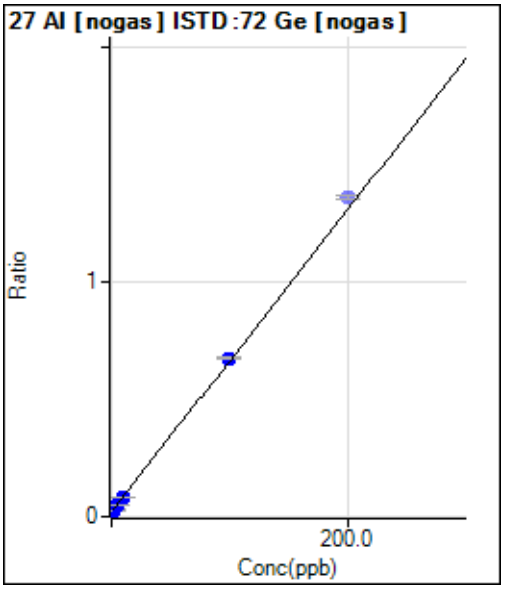
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	473.35	0.0011	P	8.0	
2	☐	200.000	199.661	129102.71	0.2926	P	0.6	-0.2
3	☐	500.000	490.995	314798.61	0.7179	P	1.2	-1.8
4	☐	1000.000	987.633	628495.80	1.4429	P	0.4	-1.2
5	☐	10000.00	9946.032	6186646.57	14.5211	A	0.5	-0.5
6	☐	20000.00	20027.83	12222952.32	29.2394	A	0.3	0.1
7	☐	100.000						

y = 0.0015 * x + 0.0011
R = 1.0000
DL = 0.1799 ppb
BEC = 0.7515 ppb

Weight: <None>
Min Conc: <None>

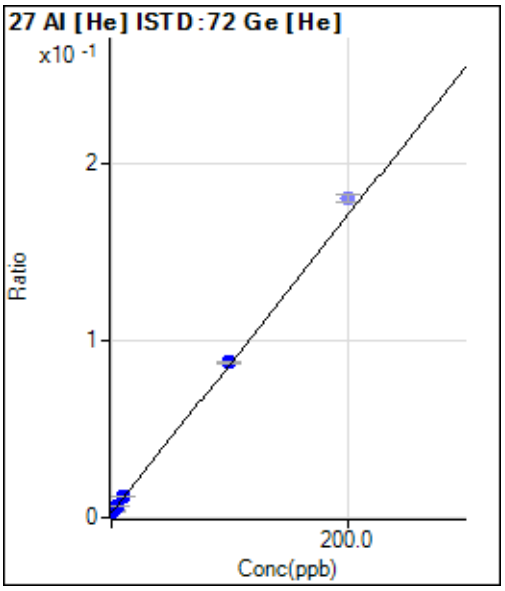


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	41238.97	0.0292	P	1.8	
2	☐	2.000	-0.115	42134.75	0.0285	P	3.0	-105.7
3	☐	5.000	3.104	71686.77	0.0492	P	0.8	-37.9
4	☐	10.000	8.491	121042.24	0.0838	P	1.4	-15.1
5	☐	100.000	100.288	955197.02	0.6735	P	0.8	0.3
6	☑	200.000		1897297.21	1.3595	P	1.5	
7	☐	1.000						

y = 0.0064 * x + 0.0292
R = 0.9998
DL = 0.2517 ppb
BEC = 4.548 ppb

Weight: <None>
Min Conc: <None>

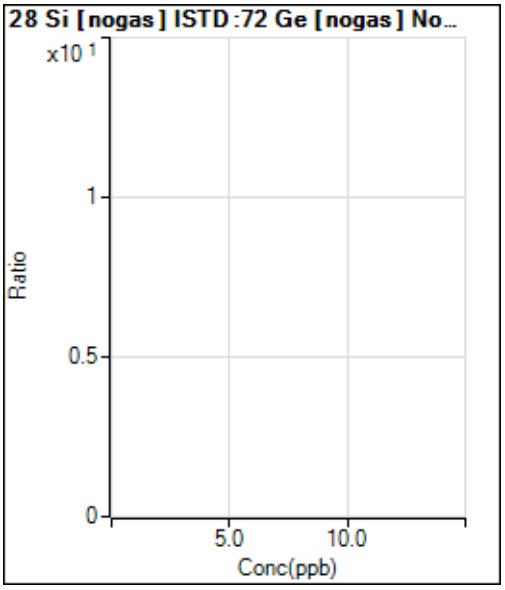
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1583.45	0.0037	P	12.1	
2	☐	2.000	0.155	1676.79	0.0038	P	3.0	-92.3
3	☐	5.000	3.484	2890.33	0.0066	P	6.7	-30.3
4	☐	10.000	9.752	5157.62	0.0118	P	1.0	-2.5
5	☐	100.000	100.138	37312.21	0.0876	P	1.7	0.1
6	☑	200.000		75227.12	0.1800	P	3.0	
7	☐	1.000						

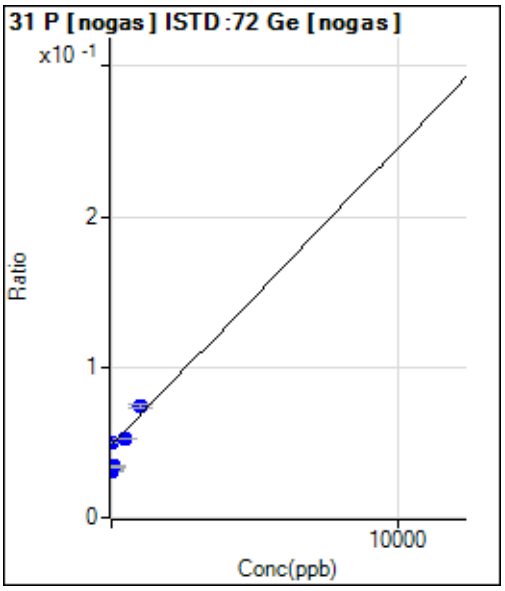
y = 8.3791E-004 * x + 0.0037
R = 0.9998
DL = 1.596 ppb
BEC = 4.38 ppb

Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000						
2	☐	100.000						
3	☐	250.000						
4	☐	500.000						
5	☐	5000.000						
6	☐	10000.00						
7	☐	50.000						

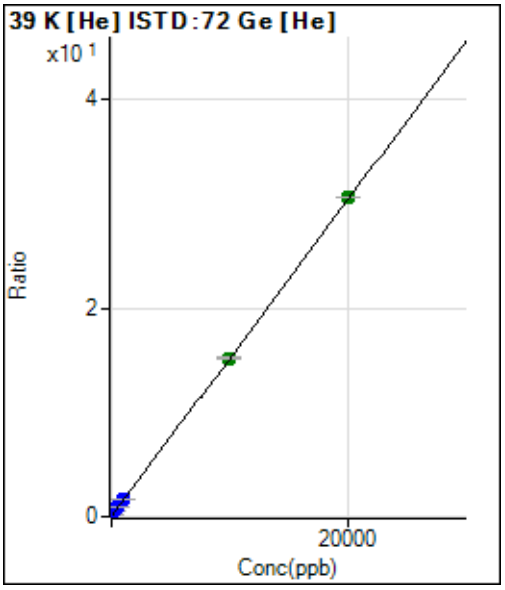
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	69882.06	0.0495	P	0.4	
2	☐	10.000	-953.100	45467.75	0.0307	P	2.0	-9631.
3	☐	25.000	-893.066	46534.09	0.0319	P	1.1	-3672.
4	☐	50.000	-789.256	49065.54	0.0340	P	2.1	-1678.
5	☐	500.000	121.337	73599.69	0.0519	P	0.2	-75.7
6	☐	1000.000	1263.877	103833.78	0.0744	P	2.5	26.4
7	☐	5.000						

y = 1.9700E-005 * x + 0.0495
R = 0.9035
DL = 31.86 ppb
BEC = 2513 ppb

Weight: <None>
Min Conc: <None>

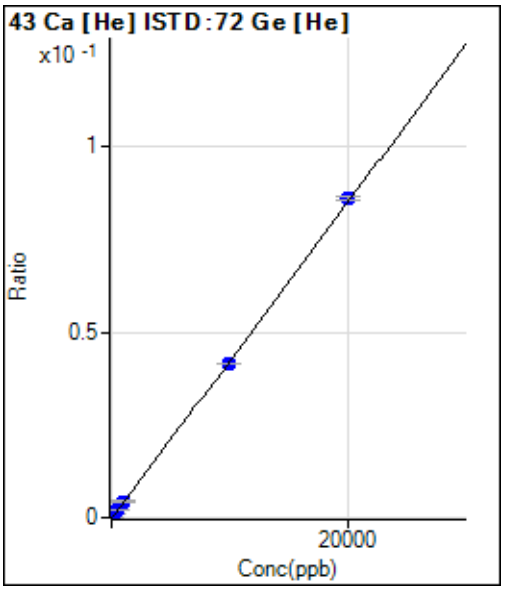


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	88103.28	0.2042	P	1.3	
2	☐	200.000	197.758	222429.60	0.5041	P	0.2	-1.1
3	☐	500.000	477.735	407228.14	0.9286	P	0.3	-4.5
4	☐	1000.000	975.763	733393.22	1.6838	P	1.1	-2.4
5	☐	10000.00	9884.801	6472898.24	15.1930	A	1.4	-1.2
6	☐	20000.00	20059.39	12800551.48	30.6212	A	0.2	0.3
7	☐	100.000						

y = 0.0015 * x + 0.2042
R = 1.0000
DL = 5.223 ppb
BEC = 134.7 ppb

Weight: <None>
Min Conc: <None>

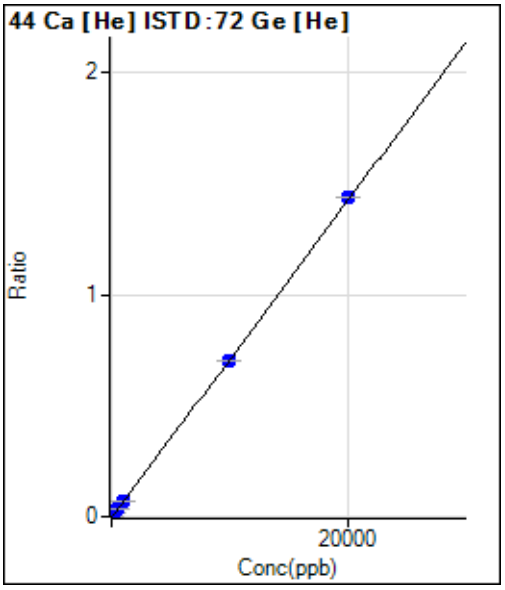
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	50.00	0.0001	P	69.4	
2	☐	200.000	201.024	430.01	0.0010	P	6.5	0.5
3	☐	500.000	476.569	943.38	0.0022	P	5.9	-4.7
4	☐	1000.000	967.715	1850.15	0.0042	P	10.9	-3.2
5	☐	10000.00	9685.974	17677.15	0.0415	P	0.3	-3.1
6	☐	20000.00	20159.20	36046.42	0.0862	P	1.7	0.8
7	☐	100.000						

y = 4.2717E-006 * x + 1.1594E-004
R = 0.9998
DL = 56.49 ppb
BEC = 27.14 ppb

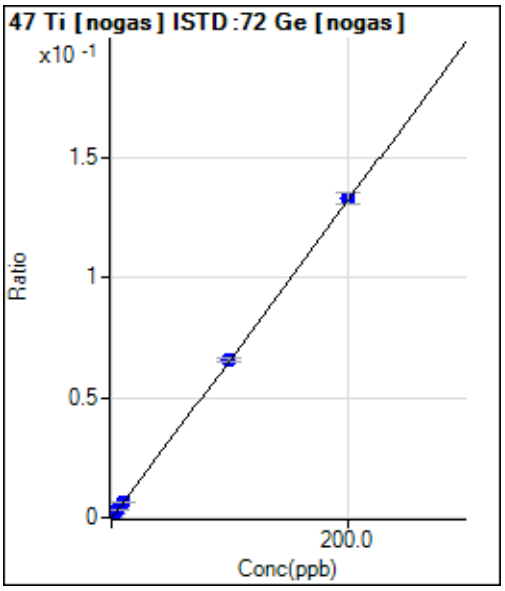
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	800.03	0.0019	P	13.1	
2	☐	200.000	198.456	7081.77	0.0160	P	6.3	-0.8
3	☐	500.000	472.612	15631.64	0.0356	P	5.2	-5.5
4	☐	1000.000	994.102	31766.81	0.0729	P	1.5	-0.6
5	☐	10000.00	9775.617	298586.66	0.7008	P	0.5	-2.2
6	☐	20000.00	20113.18	601957.91	1.4400	P	0.5	0.6
7	☐	100.000						

y = 7.1502E-005 * x + 0.0019
R = 0.9999
DL = 10.2 ppb
BEC = 25.93 ppb

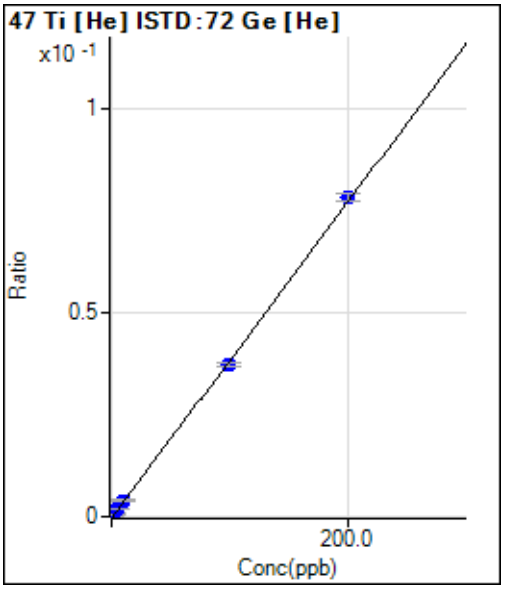
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	180.00	0.0001	P	9.2	
2	☐	2.000	1.993	2146.86	0.0015	P	4.0	-0.3
3	☐	5.000	4.706	4740.83	0.0033	P	0.6	-5.9
4	☐	10.000	9.975	9753.36	0.0067	P	2.1	-0.2
5	☐	100.000	98.850	93235.26	0.0657	P	2.2	-1.1
6	☐	200.000	200.584	185985.97	0.1333	P	3.2	0.3
7	☐	1.000						

y = 6.6373E-004 * x + 1.2748E-004
R = 1.0000
DL = 0.05311 ppb
BEC = 0.1921 ppb

Weight: <None>
Min Conc: <None>

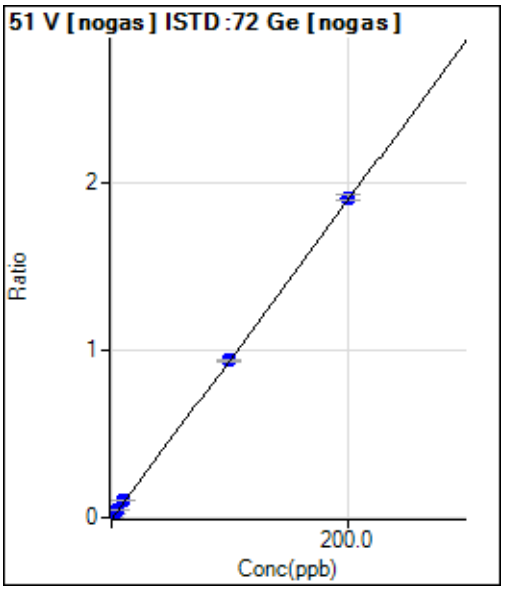


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13.33	0.0000	P	43.6	
2	☐	2.000	1.905	340.01	0.0008	P	28.2	-4.8
3	☐	5.000	4.588	793.37	0.0018	P	13.2	-8.2
4	☐	10.000	9.950	1693.46	0.0039	P	6.7	-0.5
5	☐	100.000	96.039	15878.55	0.0373	P	2.5	-4.0
6	☐	200.000	201.994	32752.29	0.0784	P	2.0	1.0
7	☐	1.000						

y = 3.8773E-004 * x + 3.0930E-005
R = 0.9997
DL = 0.1044 ppb
BEC = 0.07977 ppb

Weight: <None>
Min Conc: <None>

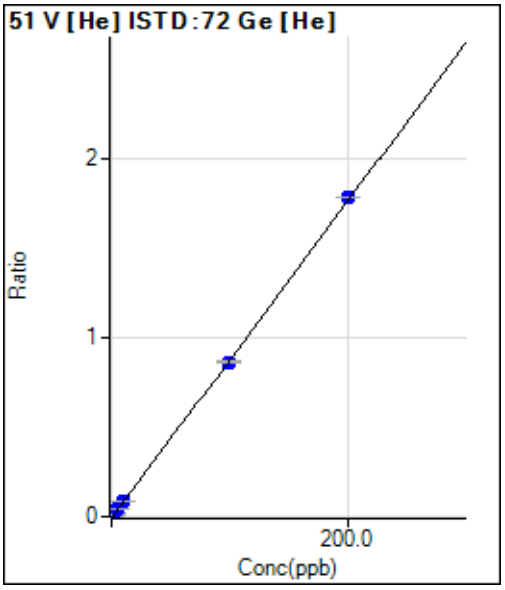
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-7376.45	-0.0052	P	-73.0	
2	☐	2.000	2.151	22646.01	0.0153	P	28.9	7.5
3	☐	5.000	5.329	66622.77	0.0457	P	3.5	6.6
4	☐	10.000	10.457	136724.48	0.0946	P	3.5	4.6
5	☐	100.000	98.848	1331267.73	0.9386	P	1.2	-1.2
6	☐	200.000	200.543	2665202.81	1.9097	P	2.0	0.3
7	☐	1.000						

y = 0.0095 * x - 0.0052
R = 1.0000
DL = 1.195 ppb
BEC = -0.5454 ppb

Weight: <None>
Min Conc: <None>

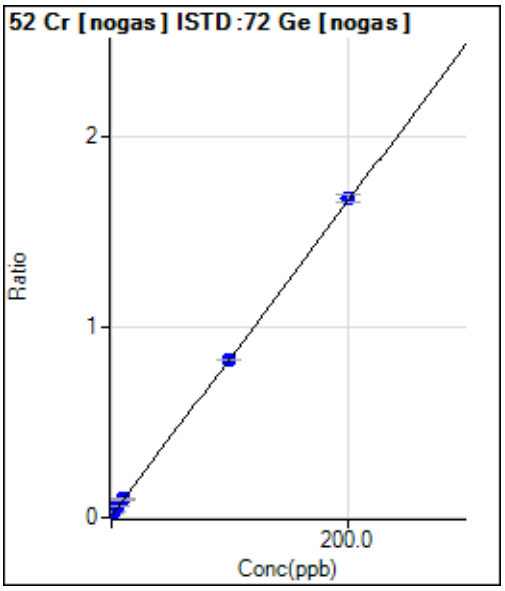


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	417.83	0.0010	P	179.2	
2	☐	2.000	1.780	7382.82	0.0167	P	21.4	-11.0
3	☐	5.000	4.755	18888.04	0.0431	P	8.7	-4.9
4	☐	10.000	9.666	37692.57	0.0866	P	4.2	-3.3
5	☐	100.000	97.348	367616.55	0.8629	P	0.8	-2.7
6	☐	200.000	201.351	745642.17	1.7837	P	0.5	0.7
7	☐	1.000						

y = 0.0089 * x + 9.7297E-004
R = 0.9999
DL = 0.5909 ppb
BEC = 0.1099 ppb

Weight: <None>
Min Conc: <None>

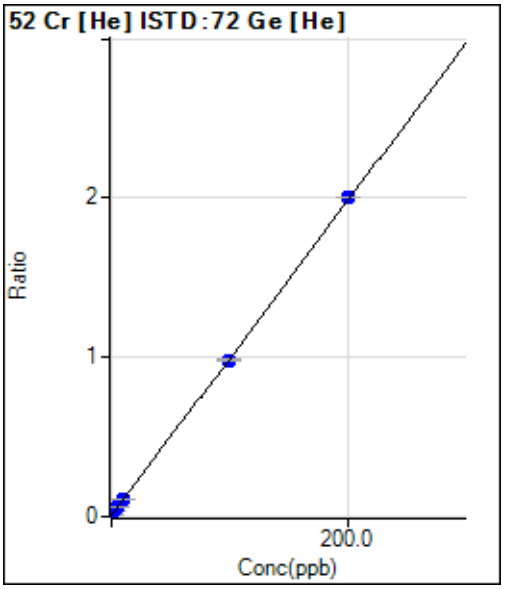
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	26567.04	0.0188	P	1.9	
2	☐	2.000	1.694	48568.38	0.0328	P	1.8	-15.3
3	☐	5.000	4.563	82447.55	0.0565	P	1.1	-8.7
4	☐	10.000	9.437	139886.09	0.0968	P	2.4	-5.6
5	☐	100.000	98.120	1176946.96	0.8298	P	1.0	-1.9
6	☐	200.000	200.982	2344700.33	1.6800	P	1.8	0.5
7	☐	1.000						

y = 0.0083 * x + 0.0188
R = 0.9999
DL = 0.1308 ppb
BEC = 2.277 ppb

Weight: <None>
Min Conc: <None>

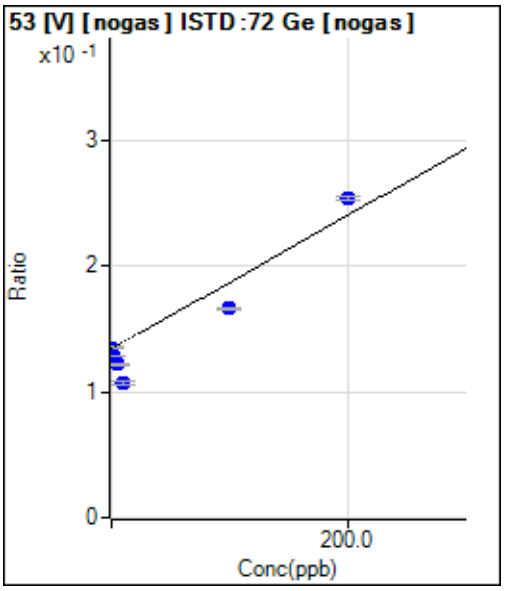


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	7455.32	0.0173	P	2.5	
2	☐	2.000	1.897	15898.59	0.0360	P	3.6	-5.1
3	☐	5.000	4.842	28553.98	0.0651	P	2.6	-3.2
4	☐	10.000	9.776	49598.25	0.1139	P	1.3	-2.2
5	☐	100.000	97.808	419087.48	0.9837	P	1.6	-2.2
6	☐	200.000	201.112	837926.73	2.0045	P	0.6	0.6
7	☐	1.000						

y = 0.0099 * x + 0.0173
R = 0.9999
DL = 0.1327 ppb
BEC = 1.749 ppb

Weight: <None>
Min Conc: <None>

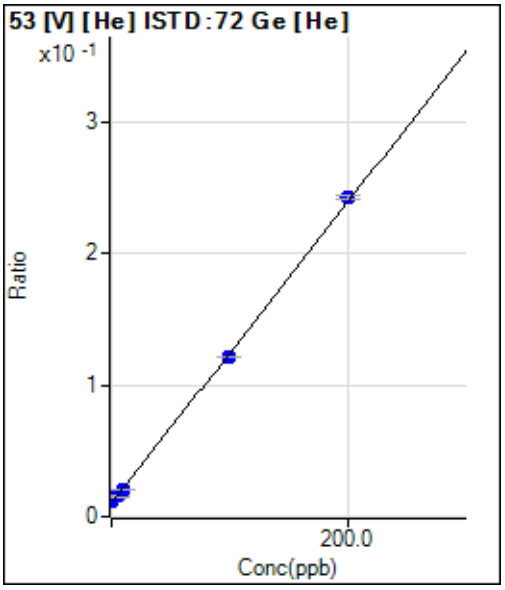
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	190446.52	0.1349	P	1.0	
2	☐	2.000	-11.240	190798.69	0.1289	P	0.2	-662.0
3	☐	5.000	-24.146	178028.78	0.1221	P	1.8	-582.9
4	☐	10.000	-52.678	154459.83	0.1069	P	2.2	-626.8
5	☐	100.000	59.661	236360.02	0.1666	P	0.8	-40.3
6	☐	200.000	224.165	354698.89	0.2541	P	1.5	12.1
7	☐	1.000						

y = 5.3190E-004 * x + 0.1349
R = 0.9652
DL = 7.416 ppb
BEC = 253.6 ppb

Weight: <None>
Min Conc: <None>

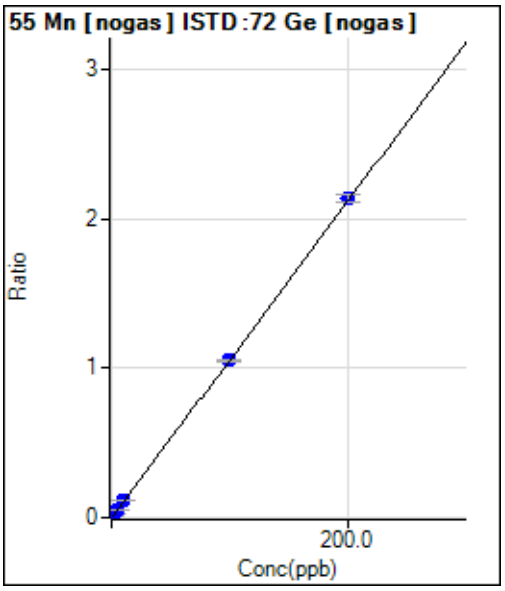


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4957.59	0.0115	P	2.3	
2	☐	2.000	2.202	6184.74	0.0140	P	5.0	10.1
3	☐	5.000	3.696	6895.06	0.0157	P	7.5	-26.1
4	☐	10.000	7.763	8882.75	0.0204	P	5.0	-22.4
5	☐	100.000	96.028	51795.53	0.1216	P	0.3	-4.0
6	☐	200.000	202.128	101666.88	0.2432	P	1.0	1.1
7	☐	1.000						

y = 0.0011 * x + 0.0115
R = 0.9997
DL = 0.699 ppb
BEC = 10.02 ppb

Weight: <None>
Min Conc: <None>

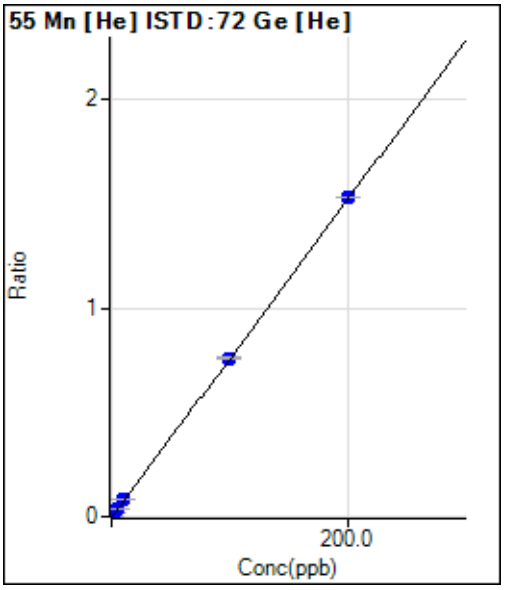
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10333.73	0.0073	P	4.3	
2	☐	2.000	1.826	39478.77	0.0267	P	3.3	-8.7
3	☐	5.000	4.640	82427.37	0.0565	P	1.3	-7.2
4	☐	10.000	9.705	159277.14	0.1102	P	1.4	-3.0
5	☐	100.000	98.516	1492037.01	1.0520	P	1.2	-1.5
6	☐	200.000	200.768	2981542.56	2.1363	P	1.9	0.4
7	☐	1.000						

y = 0.0106 * x + 0.0073
R = 1.0000
DL = 0.08919 ppb
BEC = 0.6902 ppb

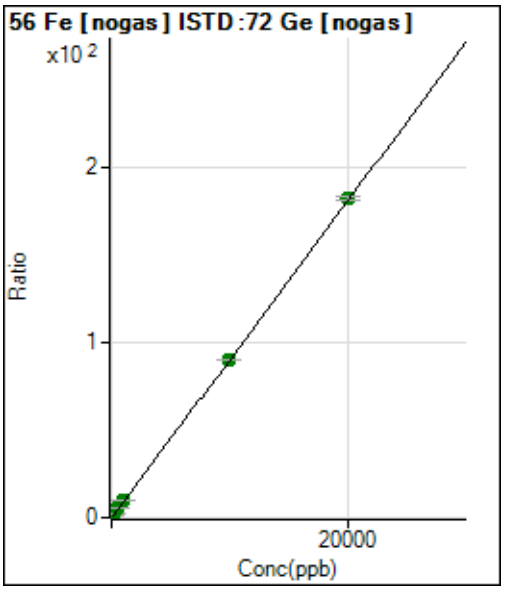
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1260.07	0.0029	P	11.9	
2	☐	2.000	1.968	7915.56	0.0179	P	7.1	-1.6
3	☐	5.000	4.998	18014.37	0.0411	P	1.0	0.0
4	☐	10.000	9.935	34309.27	0.0788	P	0.2	-0.7
5	☐	100.000	99.347	324376.37	0.7614	P	1.1	-0.7
6	☐	200.000	200.330	640564.04	1.5323	P	0.3	0.2
7	☐	1.000						

y = 0.0076 * x + 0.0029
R = 1.0000
DL = 0.1367 ppb
BEC = 0.3827 ppb

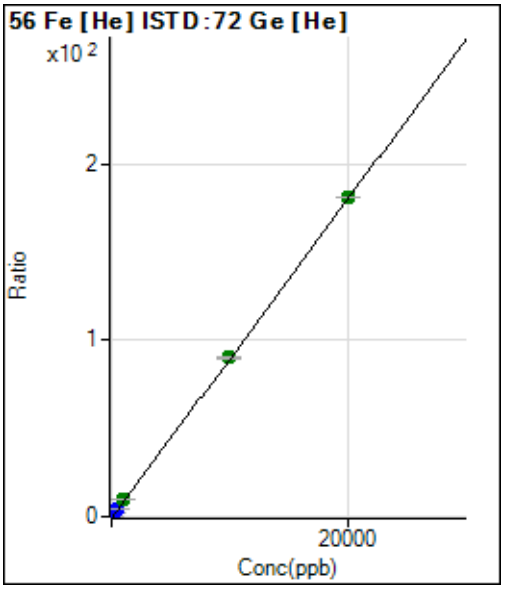
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	842151.45	0.5966	P	1.5	
2	☐	200.000	197.267	3528497.66	2.3846	A	1.6	-1.4
3	☐	500.000	501.373	7496961.97	5.1410	A	1.2	0.3
4	☐	1000.000	1013.044	14129775.62	9.7787	A	1.5	1.3
5	☐	10000.00	9877.471	127824711.4	90.1249	A	0.6	-1.2
6	☐	20000.00	20060.60	254600362.8	182.423	A	0.7	0.3
7	☐	100.000						

y = 0.0091 * x + 0.5966
R = 1.0000
DL = 2.877 ppb
BEC = 65.82 ppb

Weight: <None>
Min Conc: <None>

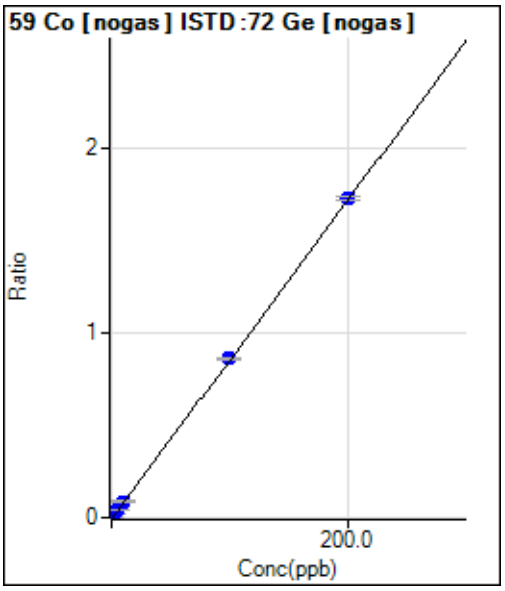


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13653.04	0.0316	P	3.1	
2	☐	200.000	197.251	802271.63	1.8182	P	0.6	-1.4
3	☐	500.000	491.873	1967361.90	4.4866	P	1.8	-1.6
4	☐	1000.000	1039.715	4115522.86	9.4485	A	0.2	4.0
5	☐	10000.00	9955.851	38429955.26	90.2037	A	2.0	-0.4
6	☐	20000.00	20020.32	75813590.54	181.359	A	0.2	0.1
7	☐	100.000						

y = 0.0091 * x + 0.0316
R = 1.0000
DL = 0.3284 ppb
BEC = 3.494 ppb

Weight: <None>
Min Conc: <None>

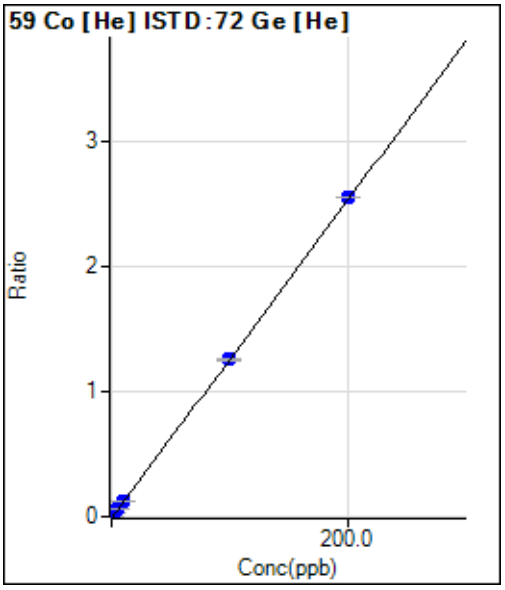
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	376.68	0.0003	P	9.9	
2	☐	2.000	2.004	26052.80	0.0176	P	2.9	0.2
3	☐	5.000	4.945	62797.53	0.0431	P	1.6	-1.1
4	☐	10.000	10.119	126931.51	0.0878	P	2.5	1.2
5	☐	100.000	99.505	1221924.02	0.8615	P	2.0	-0.5
6	☐	200.000	200.243	2419335.48	1.7334	P	1.3	0.1
7	☐	1.000						

y = 0.0087 * x + 2.6669E-004
R = 1.0000
DL = 0.009146 ppb
BEC = 0.03081 ppb

Weight: <None>
Min Conc: <None>

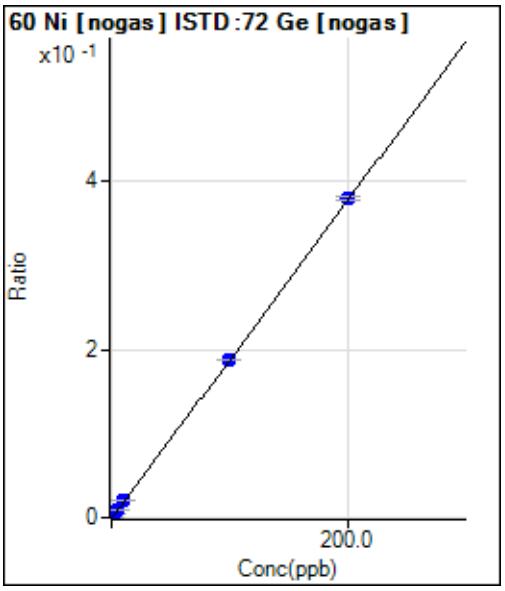


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	173.33	0.0004	P	8.8	
2	☐	2.000	2.006	11447.87	0.0259	P	1.5	0.3
3	☐	5.000	4.994	28056.50	0.0640	P	1.5	-0.1
4	☐	10.000	9.879	54950.49	0.1262	P	3.8	-1.2
5	☐	100.000	98.564	534749.59	1.2551	P	1.2	-1.4
6	☐	200.000	200.724	1068334.59	2.5556	P	0.4	0.4
7	☐	1.000						

y = 0.0127 * x + 4.0174E-004
R = 1.0000
DL = 0.008325 ppb
BEC = 0.03156 ppb

Weight: <None>
Min Conc: <None>

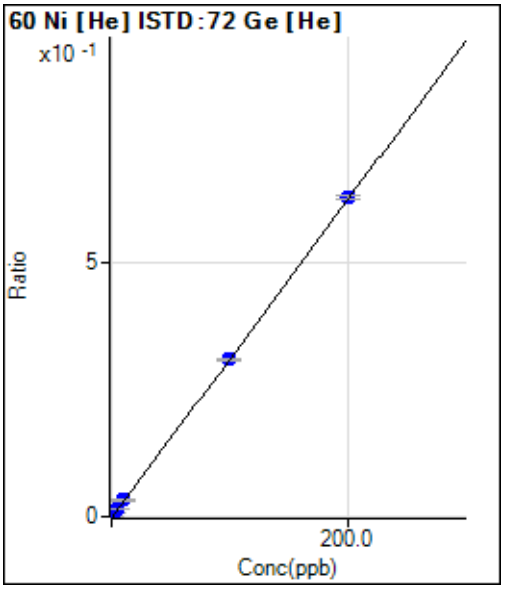
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	533.35	0.0004	P	10.6	
2	☐	2.000	2.099	6448.18	0.0044	P	6.6	4.9
3	☐	5.000	5.075	14580.66	0.0100	P	2.1	1.5
4	☐	10.000	10.146	28343.66	0.0196	P	1.4	1.5
5	☐	100.000	99.281	267481.58	0.1886	P	0.4	-0.7
6	☐	200.000	200.349	530632.06	0.3802	P	1.4	0.2
7	☐	1.000						

y = 0.0019 * x + 3.7779E-004
R = 1.0000
DL = 0.0632 ppb
BEC = 0.1993 ppb

Weight: <None>
Min Conc: <None>

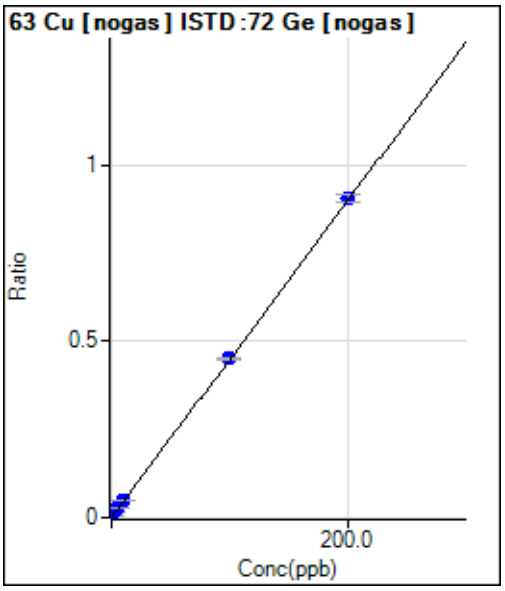


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	160.00	0.0004	P	28.7	
2	☐	2.000	2.037	2973.68	0.0067	P	6.2	1.8
3	☐	5.000	5.141	7208.53	0.0164	P	0.7	2.8
4	☐	10.000	10.376	14283.64	0.0328	P	4.5	3.8
5	☐	100.000	98.762	131665.34	0.3090	P	1.5	-1.2
6	☐	200.000	200.596	262228.38	0.6273	P	0.9	0.3
7	☐	1.000						

y = 0.0031 * x + 3.7083E-004
R = 1.0000
DL = 0.102 ppb
BEC = 0.1187 ppb

Weight: <None>
Min Conc: <None>

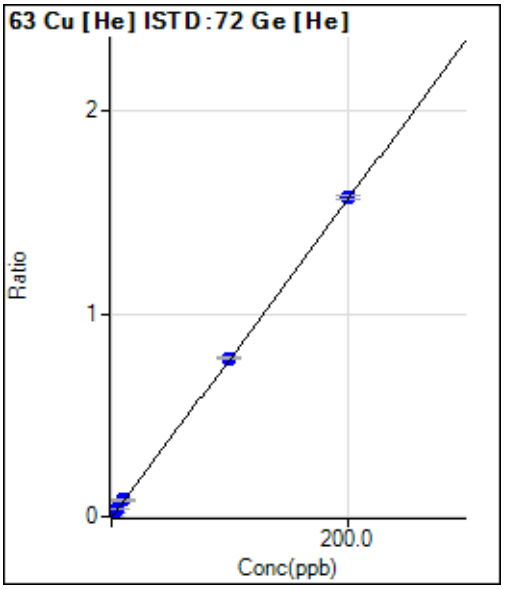
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6968.39	0.0049	P	9.3	
2	☐	2.000	1.984	20514.26	0.0139	P	2.5	-0.8
3	☐	5.000	4.894	39298.41	0.0269	P	1.9	-2.1
4	☐	10.000	10.274	73918.33	0.0512	P	1.0	2.7
5	☐	100.000	99.079	639148.14	0.4506	P	1.2	-0.9
6	☐	200.000	200.450	1265382.59	0.9067	P	1.9	0.2
7	☐	1.000						

y = 0.0045 * x + 0.0049
R = 1.0000
DL = 0.3068 ppb
BEC = 1.097 ppb

Weight: <None>
Min Conc: <None>

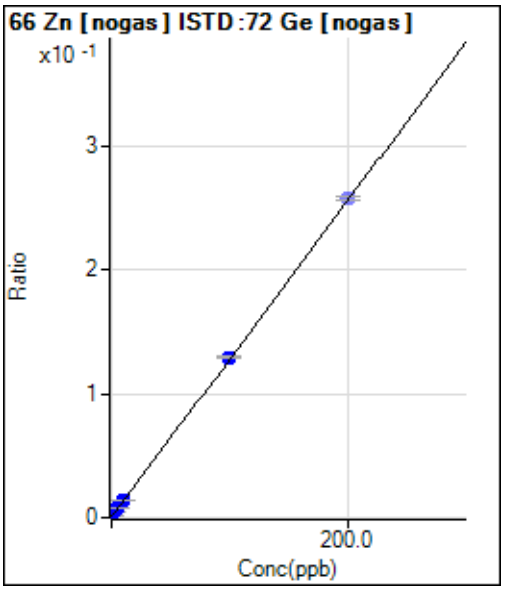


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	606.69	0.0014	P	14.7	
2	☐	2.000	2.013	7602.09	0.0172	P	3.4	0.7
3	☐	5.000	5.050	18021.10	0.0411	P	1.1	1.0
4	☐	10.000	10.156	35378.58	0.0812	P	1.8	1.6
5	☐	100.000	99.174	332682.66	0.7809	P	0.9	-0.8
6	☐	200.000	200.404	659033.19	1.5765	P	0.7	0.2
7	☐	1.000						

y = 0.0079 * x + 0.0014
R = 1.0000
DL = 0.07896 ppb
BEC = 0.1789 ppb

Weight: <None>
Min Conc: <None>

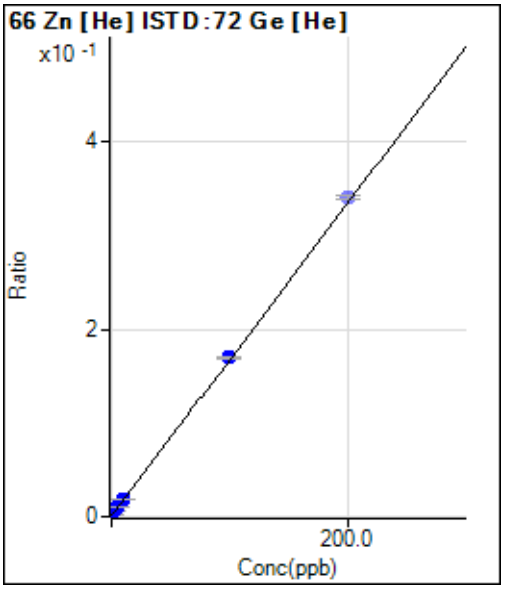
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2580.27	0.0018	P	4.4	
2	☐	2.000	1.982	6454.86	0.0044	P	11.0	-0.9
3	☐	5.000	4.923	11851.56	0.0081	P	5.3	-1.5
4	☐	10.000	9.910	20968.27	0.0145	P	1.5	-0.9
5	☐	100.000	100.013	184136.38	0.1298	P	1.6	0.0
6	☑	200.000		360493.98	0.2583	P	1.2	
7	☐	1.000						

y = 0.0013 * x + 0.0018
R = 1.0000
DL = 0.1867 ppb
BEC = 1.428 ppb

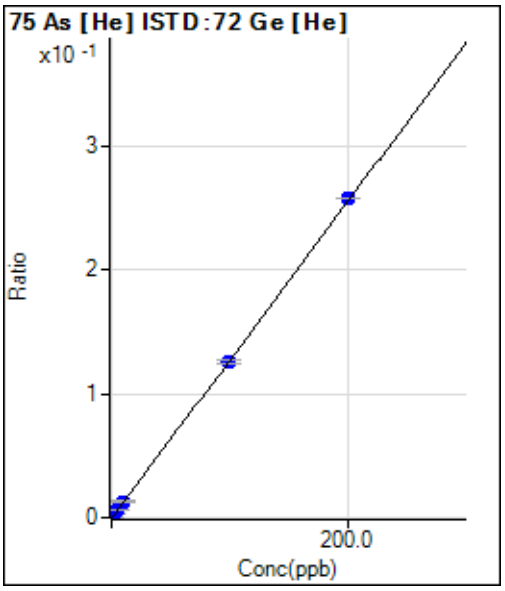
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1086.73	0.0025	P	4.1	
2	☐	2.000	1.851	2476.91	0.0056	P	9.6	-7.5
3	☐	5.000	4.757	4590.77	0.0105	P	3.5	-4.9
4	☐	10.000	9.646	8119.00	0.0186	P	1.1	-3.5
5	☐	100.000	100.051	72307.43	0.1697	P	0.7	0.1
6	☑	200.000		142633.57	0.3412	P	0.8	
7	☐	1.000						

y = 0.0017 * x + 0.0025
R = 1.0000
DL = 0.1852 ppb
BEC = 1.507 ppb

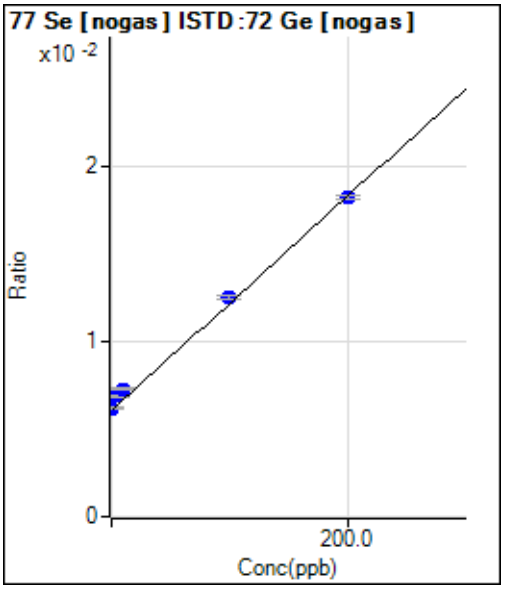
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	256.67	0.0006	P	18.0	
2	☐	2.000	1.906	1338.96	0.0030	P	2.4	-4.7
3	☐	5.000	4.704	2901.41	0.0066	P	2.1	-5.9
4	☐	10.000	9.771	5706.67	0.0131	P	1.8	-2.3
5	☐	100.000	98.002	53695.29	0.1260	P	2.1	-2.0
6	☐	200.000	201.019	107807.88	0.2579	P	0.2	0.5
7	☐	1.000						

y = 0.0013 * x + 5.9474E-004
R = 0.9999
DL = 0.2506 ppb
BEC = 0.4646 ppb

Weight: <None>
Min Conc: <None>

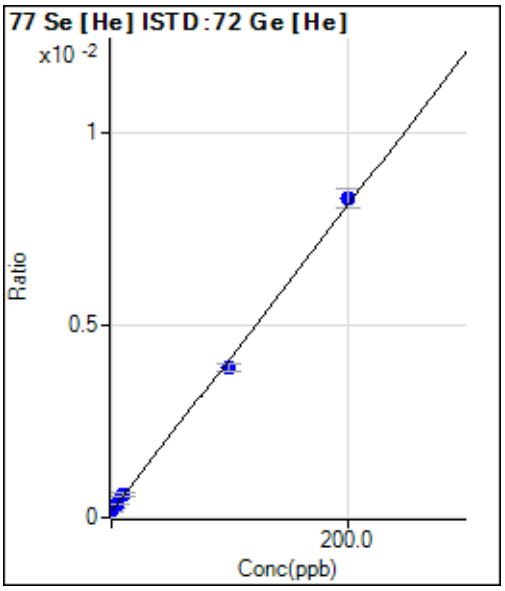


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8696.01	0.0062	P	2.0	
2	☐	2.000	13.085	10297.04	0.0070	P	2.7	554.2
3	☐	5.000	11.984	10050.24	0.0069	P	1.7	139.7
4	☐	10.000	18.495	10533.87	0.0073	P	1.5	84.9
5	☐	100.000	103.699	17724.17	0.0125	P	1.3	3.7
6	☐	200.000	197.440	25435.47	0.0182	P	1.1	-1.3
7	☐	1.000						

y = 6.1113E-005 * x + 0.0062
R = 0.9988
DL = 6.036 ppb
BEC = 100.8 ppb

Weight: <None>
Min Conc: <None>

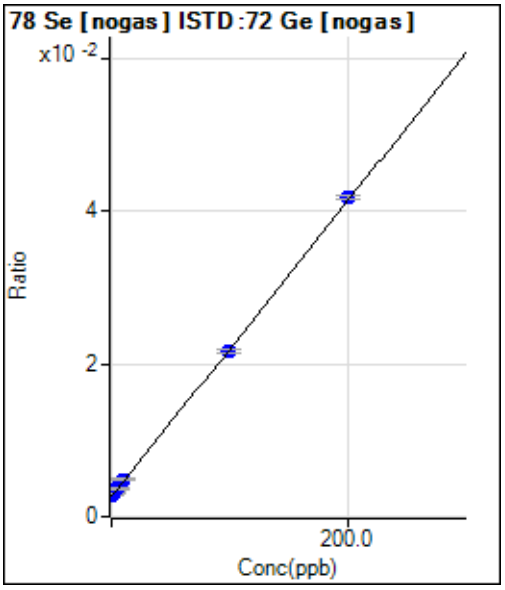
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	86.67	0.0002	P	29.4	
2	☐	2.000	2.742	136.67	0.0003	P	30.8	37.1
3	☐	5.000	3.929	156.67	0.0004	P	9.6	-21.4
4	☐	10.000	9.778	256.68	0.0006	P	18.7	-2.2
5	☐	100.000	92.963	1660.12	0.0039	P	5.3	-7.0
6	☐	200.000	203.549	3467.13	0.0083	P	6.4	1.8
7	☐	1.000						

y = 3.9759E-005 * x + 2.0103E-004
R = 0.9991
DL = 4.457 ppb
BEC = 5.056 ppb

Weight: <None>
Min Conc: <None>

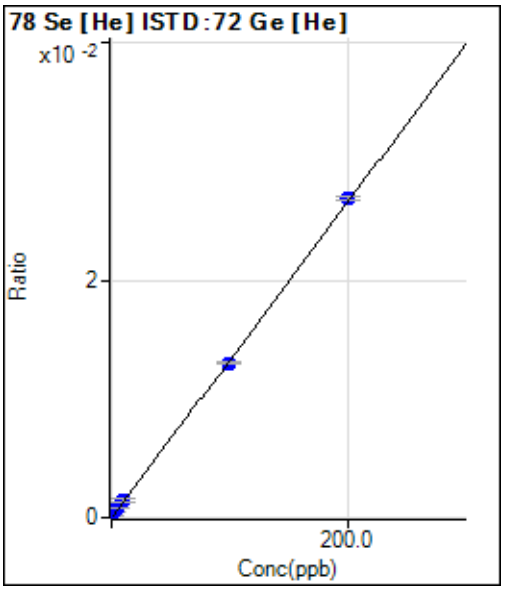


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4003.96	0.0028	P	6.2	
2	☐	2.000	1.315	4574.13	0.0031	P	4.2	-34.3
3	☐	5.000	4.325	5357.73	0.0037	P	10.4	-13.5
4	☐	10.000	10.685	7088.49	0.0049	P	5.7	6.9
5	☐	100.000	97.212	30735.47	0.0217	P	2.1	-2.8
6	☐	200.000	201.383	58411.66	0.0419	P	1.0	0.7
7	☐	1.000						

y = 1.9374E-004 * x + 0.0028
R = 0.9999
DL = 2.744 ppb
BEC = 14.64 ppb

Weight: <None>
Min Conc: <None>

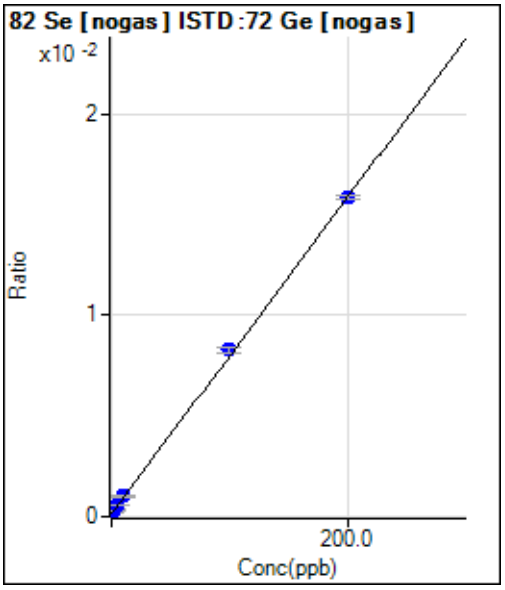
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	50.67	0.0001	P	9.5	
2	☐	2.000	2.414	193.33	0.0004	P	9.4	20.7
3	☐	5.000	5.039	345.34	0.0008	P	7.6	0.8
4	☐	10.000	10.049	632.68	0.0015	P	12.1	0.5
5	☐	100.000	97.129	5551.05	0.0130	P	0.9	-2.9
6	☐	200.000	201.428	11242.28	0.0269	P	1.8	0.7
7	☐	1.000						

y = 1.3293E-004 * x + 1.1741E-004
R = 0.9998
DL = 0.2525 ppb
BEC = 0.8832 ppb

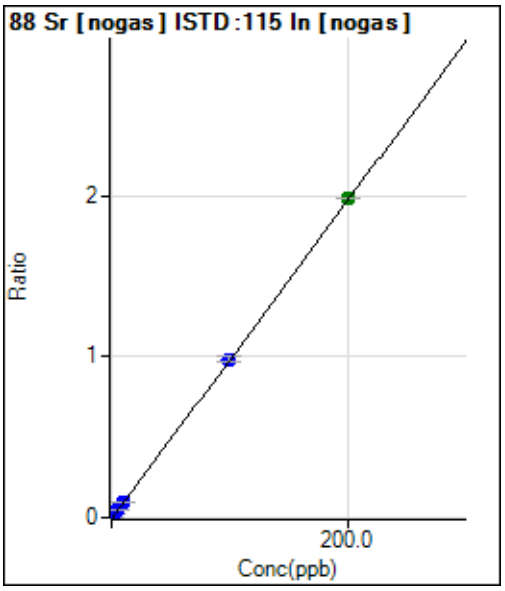
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	316.68	0.0002	P	12.5	
2	☐	2.000	1.214	473.35	0.0003	P	13.6	-39.3
3	☐	5.000	4.269	816.71	0.0006	P	0.8	-14.6
4	☐	10.000	9.964	1456.77	0.0010	P	7.2	-0.4
5	☐	100.000	102.414	11734.86	0.0083	P	2.8	2.4
6	☐	200.000	198.821	22123.51	0.0159	P	1.4	-0.6
7	☐	1.000						

y = 7.8600E-005 * x + 2.2444E-004
R = 0.9999
DL = 1.074 ppb
BEC = 2.855 ppb

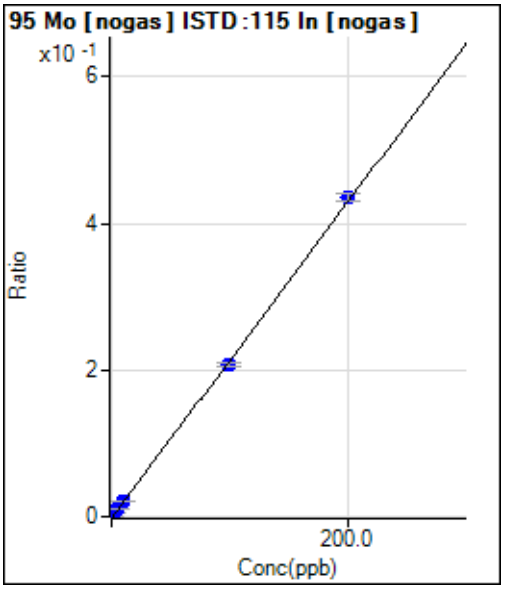
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1363.42	0.0008	P	5.1	
2	☐	2.000	1.960	35259.14	0.0202	P	2.4	-2.0
3	☐	5.000	4.875	84993.69	0.0491	P	1.0	-2.5
4	☐	10.000	9.795	168530.76	0.0978	P	0.5	-2.1
5	☐	100.000	99.314	1655391.38	0.9841	P	3.0	-0.7
6	☐	200.000	200.357	3247327.04	1.9845	A	0.4	0.2
7	☐	1.000						

y = 0.0099 * x + 8.1334E-004
R = 1.0000
DL = 0.01246 ppb
BEC = 0.08215 ppb

Weight: <None>
Min Conc: <None>

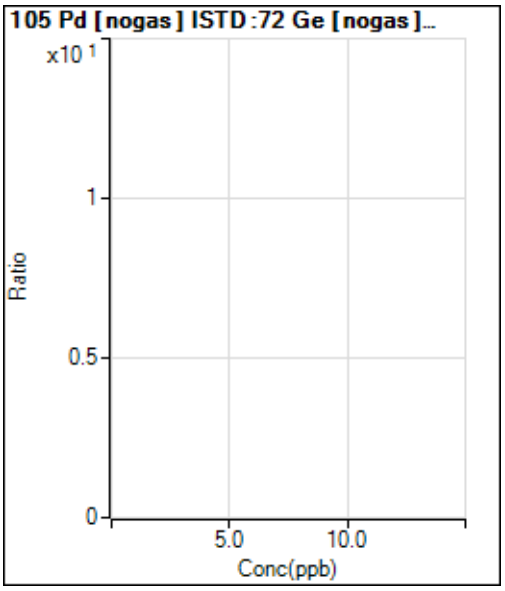


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	363.35	0.0002	P	23.4	
2	☐	2.000	1.844	7315.29	0.0042	P	2.2	-7.8
3	☐	5.000	4.533	17307.02	0.0100	P	2.7	-9.3
4	☐	10.000	9.631	36185.10	0.0210	P	2.4	-3.7
5	☐	100.000	96.132	349189.53	0.2076	P	2.4	-3.9
6	☐	200.000	201.966	713267.46	0.4359	P	1.9	1.0
7	☐	1.000						

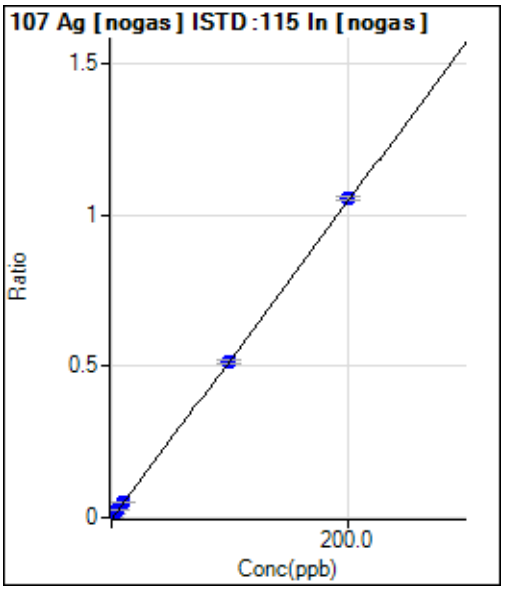
y = 0.0022 * x + 2.1679E-004
R = 0.9997
DL = 0.07046 ppb
BEC = 0.1005 ppb

Weight: <None>
Min Conc: <None>

Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000						
2	☐	2.000						
3	☐	5.000						
4	☐	10.000						
5	☐	100.000						
6	☐	200.000						
7	☐	1.000						



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	150.00	0.0001	P	19.8	
2	☐	2.000	1.978	18261.73	0.0105	P	0.1	-1.1
3	☐	5.000	4.901	44702.39	0.0258	P	0.6	-2.0
4	☐	10.000	9.870	89409.60	0.0519	P	2.5	-1.3
5	☐	100.000	97.922	864654.02	0.5140	P	2.7	-2.1
6	☐	200.000	201.048	1726840.03	1.0552	P	1.4	0.5
7	☐	1.000						

y = 0.0052 * x + 8.9475E-005

R = 0.9999

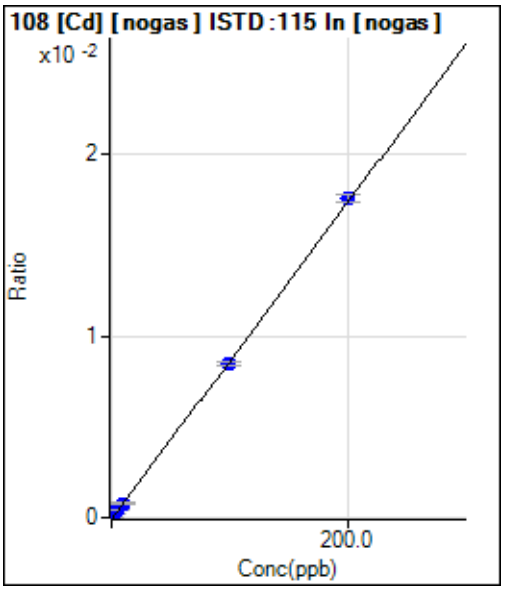
DL = 0.0101 ppb

BEC = 0.01705 ppb

Weight: <None>

Min Conc: <None>

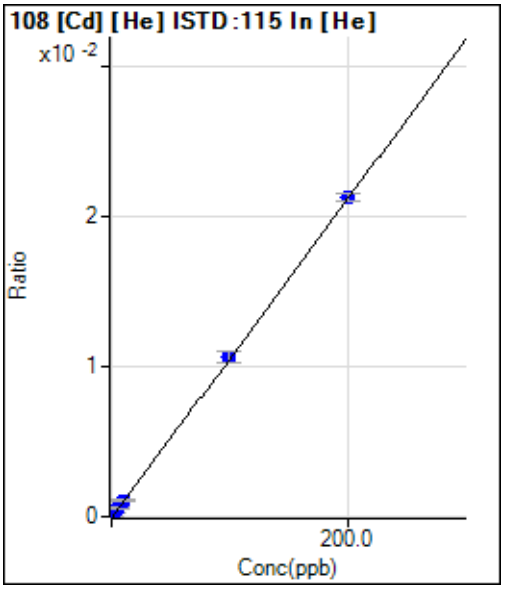
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3.33	0.0000	P	173.2	
2	☐	2.000	2.253	346.68	0.0002	P	12.1	12.6
3	☐	5.000	5.207	790.03	0.0005	P	6.5	4.1
4	☐	10.000	8.480	1276.74	0.0007	P	14.2	-15.2
5	☐	100.000	97.005	14240.54	0.0085	P	3.3	-3.0
6	☐	200.000	201.566	28778.87	0.0176	P	2.5	0.8
7	☐	1.000						

y = 8.7248E-005 * x + 2.0017E-006
R = 0.9998
DL = 0.1192 ppb
BEC = 0.02294 ppb

Weight: <None>
Min Conc: <None>

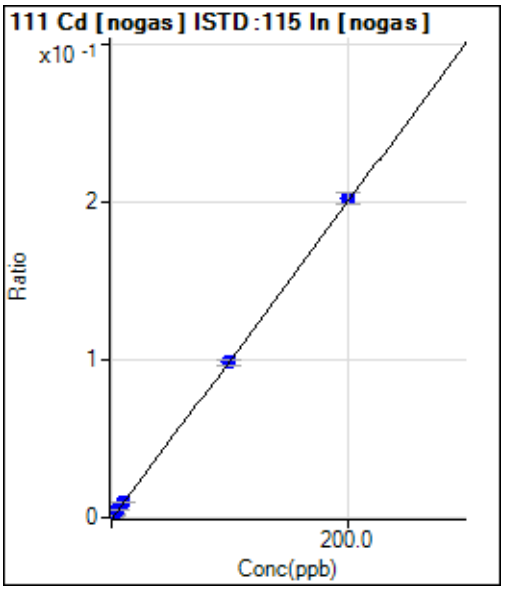


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10.00	0.0000	P	101.0	
2	☐	2.000	2.181	173.34	0.0002	P	31.5	9.0
3	☐	5.000	5.131	390.01	0.0006	P	28.8	2.6
4	☐	10.000	9.985	743.37	0.0011	P	11.5	-0.2
5	☐	100.000	99.966	6991.83	0.0107	P	6.6	0.0
6	☐	200.000	200.013	13813.42	0.0213	P	2.9	0.0
7	☐	1.000						

y = 1.0647E-004 * x + 1.4668E-005
R = 1.0000
DL = 0.4175 ppb
BEC = 0.1378 ppb

Weight: <None>
Min Conc: <None>

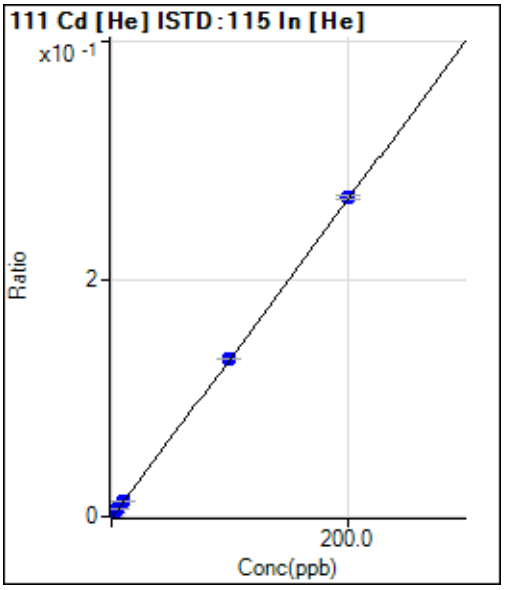
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	23.09	0.0000	P	51.5	
2	☐	2.000	1.872	3308.55	0.0019	P	8.5	-6.4
3	☐	5.000	4.957	8658.92	0.0050	P	7.9	-0.9
4	☐	10.000	9.657	16771.61	0.0097	P	0.5	-3.4
5	☐	100.000	97.628	165289.26	0.0983	P	3.0	-2.4
6	☐	200.000	201.205	331373.14	0.2025	P	3.1	0.6
7	☐	1.000						

y = 0.0010 * x + 1.3750E-005
R = 0.9999
DL = 0.02113 ppb
BEC = 0.01366 ppb

Weight: <None>
Min Conc: <None>

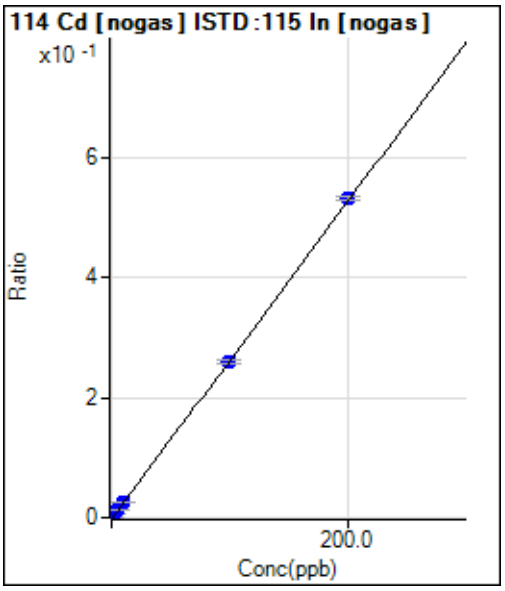


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-4.06	0.0000	P	-158.	
2	☐	2.000	2.017	1894.20	0.0027	P	10.6	0.9
3	☐	5.000	4.678	4355.73	0.0063	P	1.2	-6.4
4	☐	10.000	9.538	8832.37	0.0128	P	3.4	-4.6
5	☐	100.000	98.870	87007.68	0.1326	P	0.8	-1.1
6	☐	200.000	200.596	174395.61	0.2691	P	1.0	0.3
7	☐	1.000						

y = 0.0013 * x - 6.0090E-006
R = 1.0000
DL = 0.02127 ppb
BEC = -0.004479 ppb

Weight: <None>
Min Conc: <None>

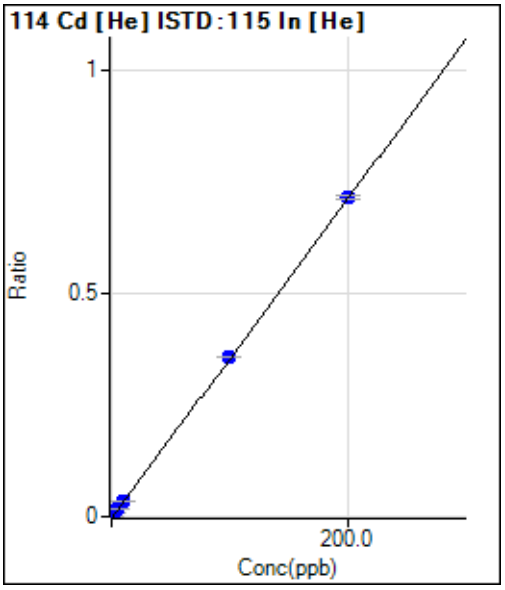
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	90.00	0.0001	P	22.0	
2	☐	2.000	1.946	9083.00	0.0052	P	4.4	-2.7
3	☐	5.000	4.829	22240.66	0.0128	P	1.7	-3.4
4	☐	10.000	9.650	44137.46	0.0256	P	2.1	-3.5
5	☐	100.000	98.153	437445.42	0.2600	P	2.4	-1.8
6	☐	200.000	200.946	871081.78	0.5323	P	1.2	0.5
7	☐	1.000						

y = 0.0026 * x + 5.3683E-005
R = 0.9999
DL = 0.01336 ppb
BEC = 0.02027 ppb

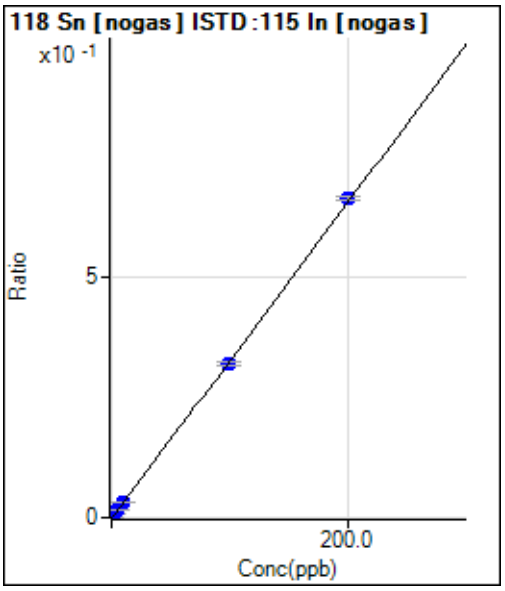
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	43.33	0.0001	P	69.6	
2	☐	2.000	1.973	4990.97	0.0071	P	1.0	-1.3
3	☐	5.000	4.732	11791.65	0.0170	P	1.9	-5.4
4	☐	10.000	9.531	23559.43	0.0341	P	1.8	-4.7
5	☐	100.000	100.060	234585.54	0.3576	P	0.8	0.1
6	☐	200.000	200.001	463159.81	0.7147	P	1.0	0.0
7	☐	1.000						

y = 0.0036 * x + 6.3156E-005
R = 1.0000
DL = 0.03691 ppb
BEC = 0.01768 ppb

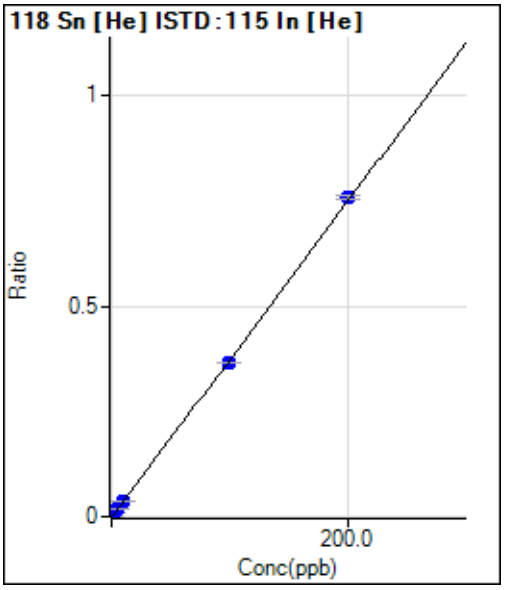
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2213.55	0.0013	P	7.4	
2	☐	2.000	1.740	12258.77	0.0070	P	3.5	-13.0
3	☐	5.000	4.640	28655.42	0.0165	P	2.2	-7.2
4	☐	10.000	9.444	55687.71	0.0323	P	1.5	-5.6
5	☐	100.000	96.758	536381.97	0.3188	P	2.4	-3.2
6	☐	200.000	201.660	1085105.58	0.6631	P	1.5	0.8
7	☐	1.000						

y = 0.0033 * x + 0.0013
R = 0.9998
DL = 0.08991 ppb
BEC = 0.4025 ppb

Weight: <None>
Min Conc: <None>

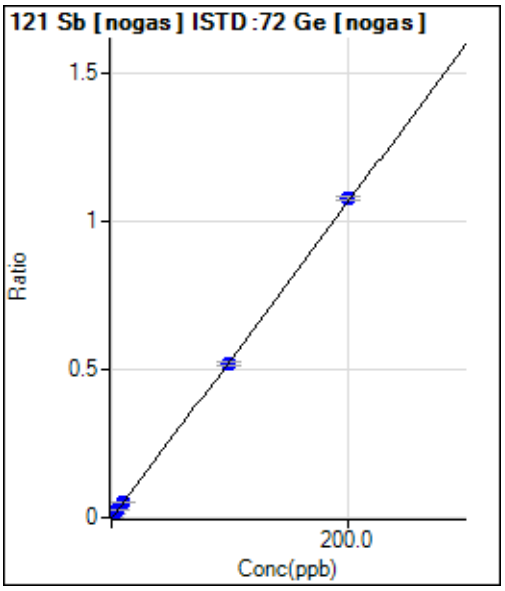


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1073.40	0.0016	P	9.8	
2	☐	2.000	1.663	5491.16	0.0078	P	6.5	-16.9
3	☐	5.000	4.415	12625.68	0.0182	P	3.8	-11.7
4	☐	10.000	9.305	25239.12	0.0366	P	2.1	-6.9
5	☐	100.000	97.026	240337.00	0.3664	P	0.7	-3.0
6	☐	200.000	201.540	492083.14	0.7593	P	0.8	0.8
7	☐	1.000						

y = 0.0038 * x + 0.0016
R = 0.9999
DL = 0.1226 ppb
BEC = 0.4186 ppb

Weight: <None>
Min Conc: <None>

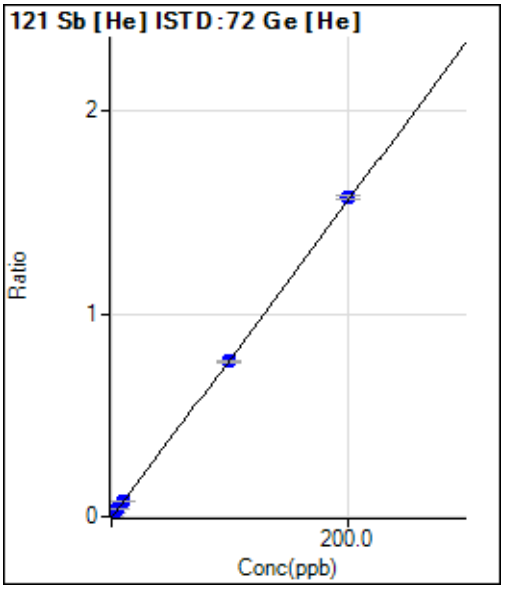
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3037.04	0.0022	P	3.2	
2	☐	2.000	1.767	17157.19	0.0116	P	1.6	-11.6
3	☐	5.000	4.594	38929.43	0.0267	P	2.5	-8.1
4	☐	10.000	9.611	77306.64	0.0535	P	1.8	-3.9
5	☐	100.000	96.936	737654.52	0.5201	P	2.6	-3.1
6	☐	200.000	201.564	1506100.97	1.0791	P	1.6	0.8
7	☐	1.000						

y = 0.0053 * x + 0.0022
R = 0.9998
DL = 0.03909 ppb
BEC = 0.4026 ppb

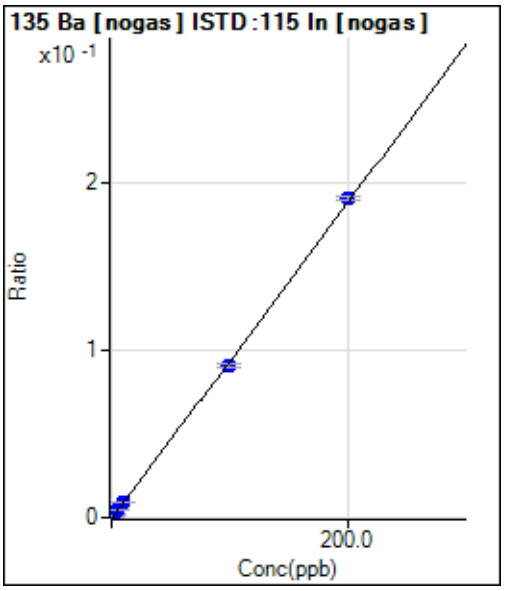
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1160.07	0.0027	P	7.7	
2	☐	2.000	1.892	7715.54	0.0175	P	2.9	-5.4
3	☐	5.000	4.590	16916.87	0.0386	P	1.7	-8.2
4	☐	10.000	9.671	34113.98	0.0783	P	1.0	-3.3
5	☐	100.000	97.464	325851.18	0.7649	P	1.0	-2.5
6	☐	200.000	201.296	659151.85	1.5768	P	1.2	0.6
7	☐	1.000						

y = 0.0078 * x + 0.0027
R = 0.9999
DL = 0.07909 ppb
BEC = 0.3438 ppb

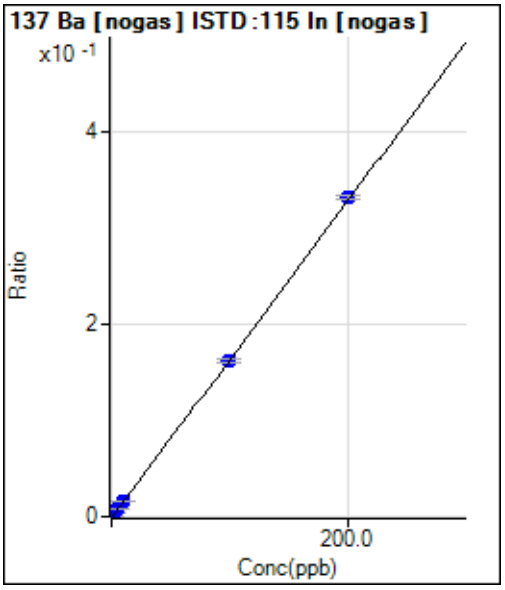
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	180.00	0.0001	P	36.4	
2	☐	2.000	1.731	3047.04	0.0017	P	3.6	-13.4
3	☐	5.000	4.851	8142.45	0.0047	P	2.1	-3.0
4	☐	10.000	9.573	15812.34	0.0092	P	1.8	-4.3
5	☐	100.000	96.501	153958.99	0.0915	P	2.6	-3.5
6	☐	200.000	201.777	312966.52	0.1912	P	1.6	0.9
7	☐	1.000						

y = 9.4727E-004 * x + 1.0743E-004
R = 0.9998
DL = 0.124 ppb
BEC = 0.1134 ppb

Weight: <None>
Min Conc: <None>

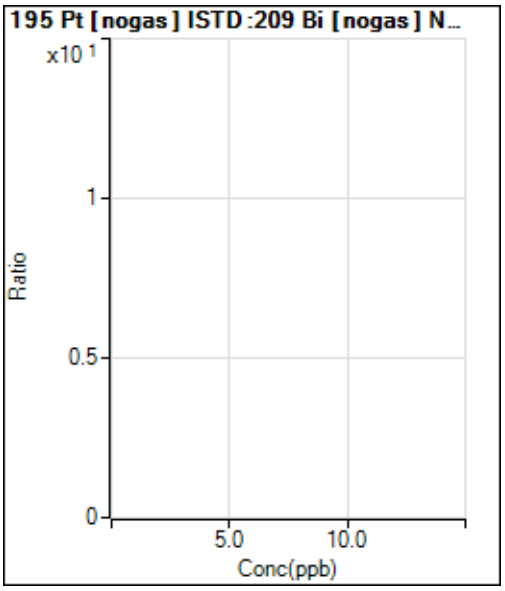


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	330.01	0.0002	P	23.2	
2	☐	2.000	1.878	5747.91	0.0033	P	9.7	-6.1
3	☐	5.000	4.734	13877.03	0.0080	P	8.2	-5.3
4	☐	10.000	9.751	28101.29	0.0163	P	0.6	-2.5
5	☐	100.000	97.633	271627.90	0.1615	P	2.4	-2.4
6	☐	200.000	201.204	544185.04	0.3325	P	1.4	0.6
7	☐	1.000						

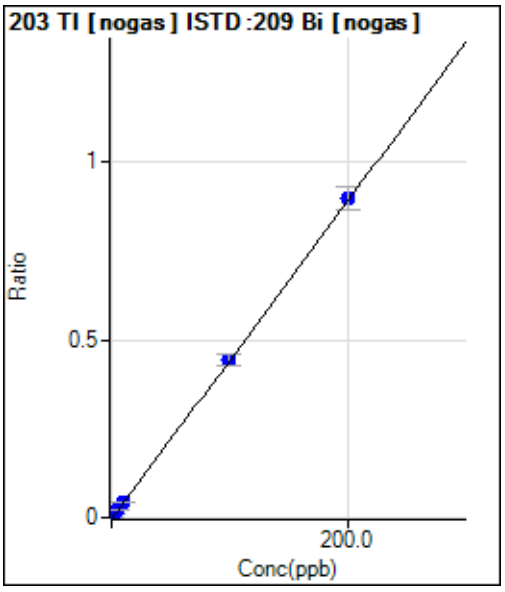
y = 0.0017 * x + 1.9677E-004
R = 0.9999
DL = 0.08289 ppb
BEC = 0.1191 ppb

Weight: <None>
Min Conc: <None>

Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000						
2	☐	2.000						
3	☐	5.000						
4	☐	10.000						
5	☐	100.000						
6	☐	200.000						
7	☐	1.000						

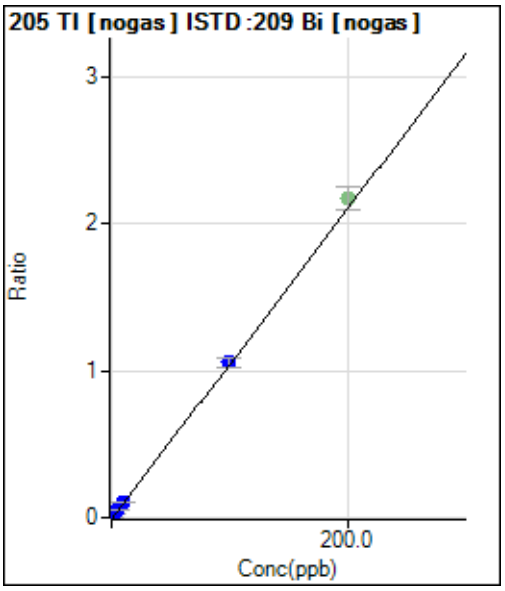


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	220.01	0.0001	P	13.2	
2	☐	2.000	1.932	14981.71	0.0088	P	8.4	-3.4
3	☐	5.000	4.779	36405.43	0.0215	P	8.1	-4.4
4	☐	10.000	9.551	73111.75	0.0429	P	7.4	-4.5
5	☐	100.000	98.689	736785.17	0.4420	P	7.6	-1.3
6	☐	200.000	200.684	1465250.08	0.8988	P	6.9	0.3
7	☐	1.000						

y = 0.0045 * x + 1.3504E-004
R = 1.0000
DL = 0.01194 ppb
BEC = 0.03016 ppb

Weight: <None>
Min Conc: <None>

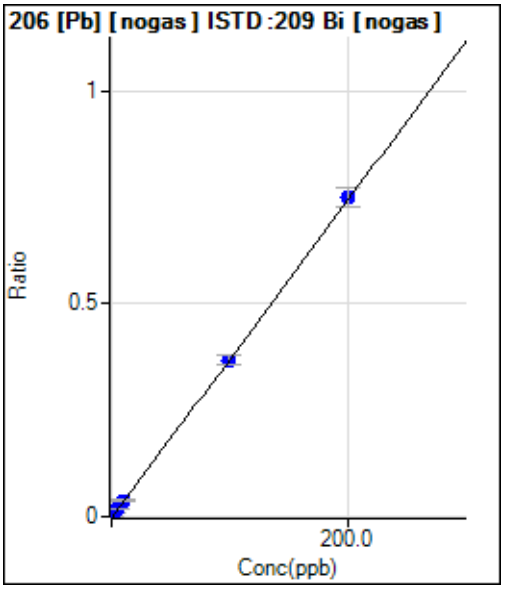
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	426.68	0.0003	P	7.1	
2	☐	2.000	1.965	35840.81	0.0210	P	9.9	-1.7
3	☐	5.000	4.889	87848.08	0.0519	P	7.7	-2.2
4	☐	10.000	9.783	176634.70	0.1037	P	7.7	-2.2
5	☐	100.000	100.028	1763659.97	1.0577	P	6.4	0.0
6	☑	200.000		3544319.32	2.1742	A	7.2	
7	☐	1.000						

y = 0.0106 * x + 2.6260E-004
R = 1.0000
DL = 0.005277 ppb
BEC = 0.02484 ppb

Weight: <None>
Min Conc: <None>

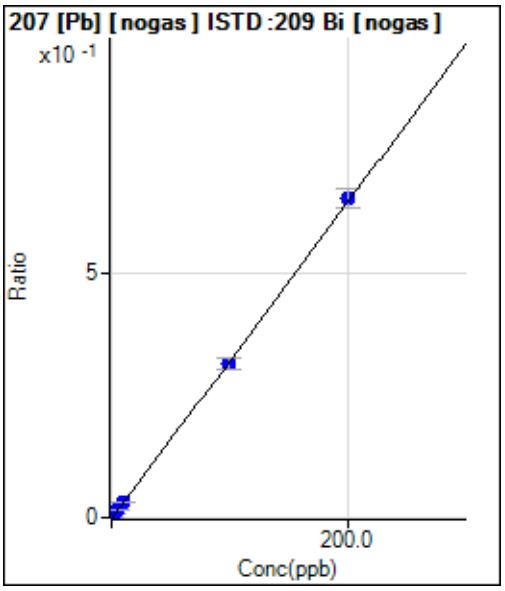


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	816.70	0.0005	P	13.5	
2	☐	2.000	2.003	13593.67	0.0080	P	9.3	0.1
3	☐	5.000	4.949	32094.72	0.0190	P	7.2	-1.0
4	☐	10.000	9.715	62573.51	0.0368	P	9.4	-2.9
5	☐	100.000	98.264	612192.10	0.3672	P	6.8	-1.7
6	☐	200.000	200.883	1223063.11	0.7501	P	6.5	0.4
7	☐	1.000						

y = 0.0037 * x + 5.0401E-004
R = 0.9999
DL = 0.05468 ppb
BEC = 0.1351 ppb

Weight: <None>
Min Conc: <None>

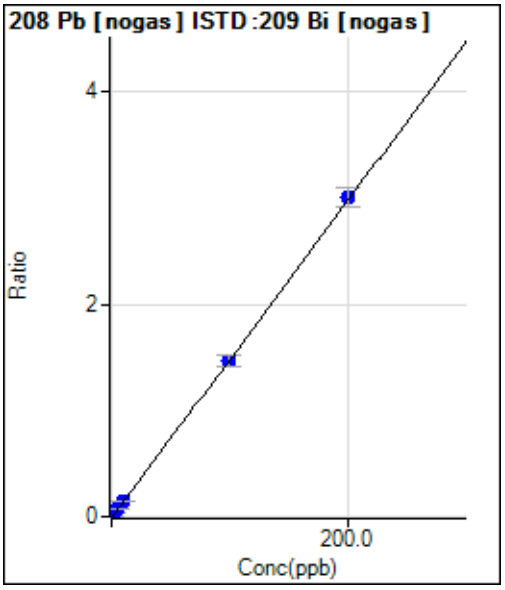
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	560.02	0.0003	P	3.6	
2	☐	2.000	2.041	11828.62	0.0069	P	10.6	2.1
3	☐	5.000	4.845	27107.21	0.0160	P	5.2	-3.1
4	☐	10.000	9.800	54616.08	0.0320	P	6.3	-2.0
5	☐	100.000	97.055	523932.67	0.3142	P	6.4	-2.9
6	☐	200.000	201.486	1062939.88	0.6519	P	6.5	0.7
7	☐	1.000						

y = 0.0032 * x + 3.4487E-004
R = 0.9998
DL = 0.01139 ppb
BEC = 0.1066 ppb

Weight: <None>
Min Conc: <None>

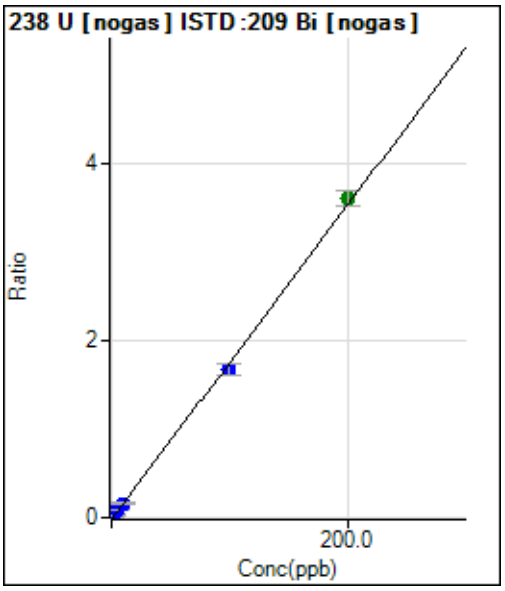


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2930.17	0.0018	P	6.9	
2	☐	2.000	1.990	53735.40	0.0315	P	8.6	-0.5
3	☐	5.000	4.841	125368.80	0.0741	P	7.0	-3.2
4	☐	10.000	9.813	252849.75	0.1484	P	7.2	-1.9
5	☐	100.000	97.802	2438513.50	1.4627	P	6.9	-2.2
6	☐	200.000	201.112	4901202.48	3.0058	P	6.3	0.6
7	☐	1.000						

y = 0.0149 * x + 0.0018
R = 0.9999
DL = 0.02501 ppb
BEC = 0.1208 ppb

Weight: <None>
Min Conc: <None>

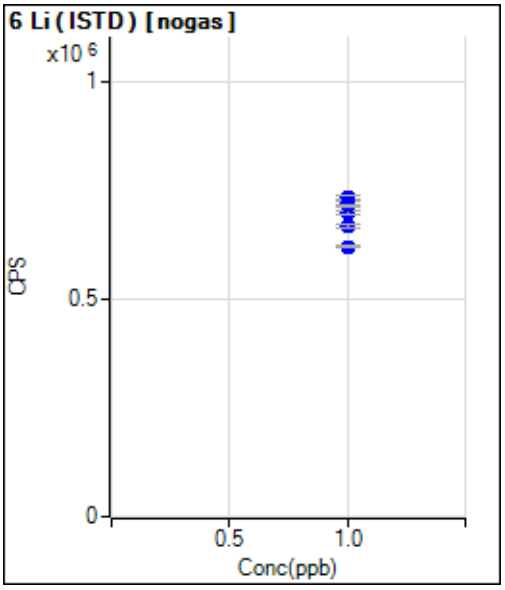
Calibration for 017_ICV.d



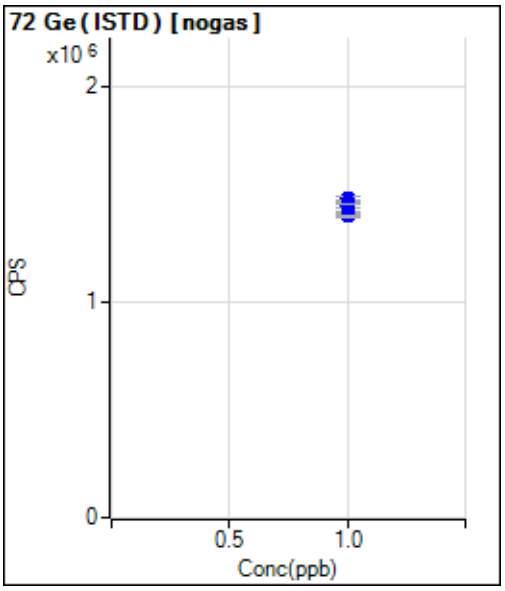
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	616.69	0.0004	P	17.9	
2	☐	2.000	1.795	55040.33	0.0323	P	7.6	-10.3
3	☐	5.000	4.482	135400.09	0.0800	P	7.3	-10.4
4	☐	10.000	8.994	273018.95	0.1602	P	7.5	-10.1
5	☐	100.000	93.943	2783680.06	1.6701	P	7.7	-6.1
6	☐	200.000	203.094	5888543.25	3.6102	A	5.3	1.5
7	☐	1.000						

y = 0.0178 * x + 3.7892E-004
R = 0.9994
DL = 0.01144 ppb
BEC = 0.02132 ppb

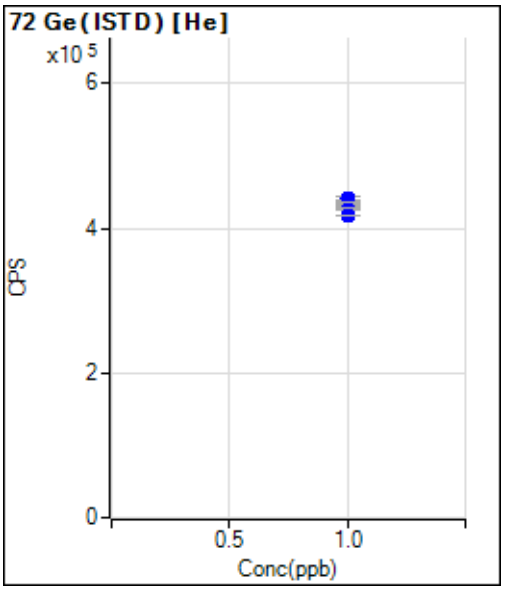
Weight: <None>
Min Conc: <None>



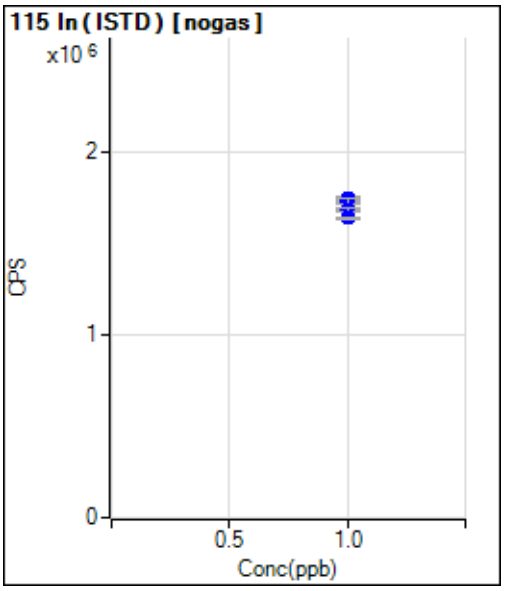
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		699034.34		P	1.2	
2	☐	1.000		733460.50		P	0.8	
3	☐	1.000		720402.58		P	0.9	
4	☐	1.000		713912.38		P	0.8	
5	☐	1.000		666404.31		P	0.9	
6	☐	1.000		619983.59		P	0.5	
7	☐	1.000						



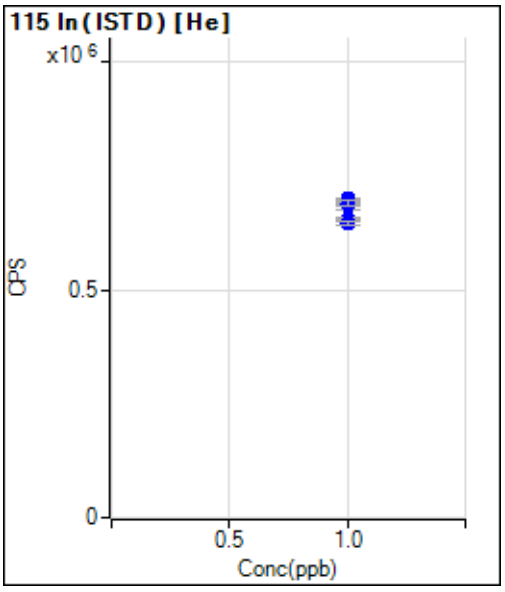
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1411661.18		P	0.9	
2	☐	1.000		1479797.90		P	0.8	
3	☐	1.000		1458344.20		P	0.7	
4	☐	1.000		1445082.95		P	1.0	
5	☐	1.000		1418305.50		P	0.3	
6	☐	1.000		1395632.64		P	0.4	
7	☐	1.000						



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		431445.49		P	0.4	
2	☐	1.000		441263.66		P	0.8	
3	☐	1.000		438525.16		P	0.6	
4	☐	1.000		435571.81		P	0.7	
5	☐	1.000		426042.18		P	0.4	
6	☐	1.000		418029.37		P	0.1	
7	☐	1.000						

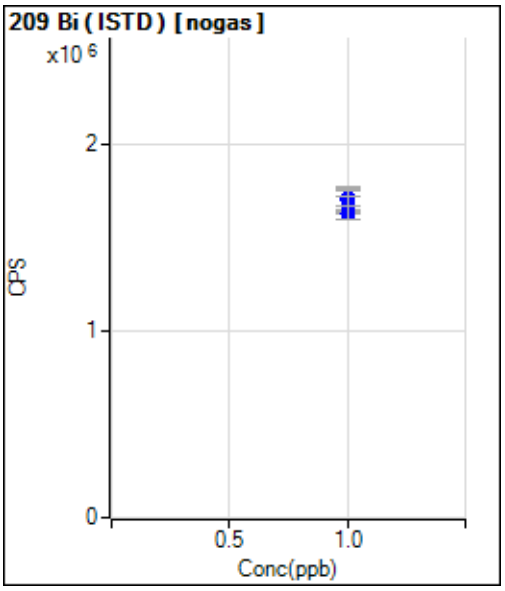


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1676050.45		P	0.6	
2	☐	1.000		1744130.85		P	1.4	
3	☐	1.000		1731832.34		P	0.8	
4	☐	1.000		1723589.46		P	1.8	
5	☐	1.000		1682496.93		P	1.0	
6	☐	1.000		1636372.93		P	0.6	
7	☐	1.000						



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		682631.42		P	1.7	
2	☐	1.000		701617.46		P	0.4	
3	☐	1.000		694798.20		P	0.3	
4	☐	1.000		690473.65		P	1.5	
5	☐	1.000		656022.74		P	0.4	
6	☐	1.000		648119.65		P	1.2	
7	☐	1.000						

Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1624905.08		P	3.2	
2	☐	1.000		1711278.88		P	7.0	
3	☐	1.000		1697002.68		P	6.8	
4	☐	1.000		1709605.71		P	6.8	
5	☐	1.000		1671467.00		P	5.6	
6	☐	1.000		1633684.09		P	4.5	
7	☐	1.000						

Low Level Continuing Calibration Verification (LLCCV) Report

Sample Table

Sample Name	LLICV2
Data File Name	019LCV2.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T12:05:34-05:00
Sample Type	LLCCV2
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	1	nogas	1.801	4.355	6421	4.23	2	90.1	70	120	
B	11	1	nogas	18.383	3.696	56738	2.63	10	183.8	70	120	NewName Main CR1 Failed
Al	27	1	nogas	-0.076	-96.676	40821	1.50	2	-3.8	70	120	NewName Main CR1 Failed
P	31	1	nogas	-939.691	-2.149	44057	1.78	10	-9396.9	70	120	NewName Main CR1 Failed
Ti	47	1	nogas	1.928	4.459	2000	3.46	2	96.4	70	120	
Ni	60	1	nogas	1.929	1.450	5735	1.26	2	96.4	70	120	
Cu	63	1	nogas	1.986	0.337	19720	1.03	2	99.3	70	120	
Zn	66	1	nogas	1.480	14.298	5298	7.97	2	74.0	70	120	
Se	77	1	nogas	-13.497	-33.445	7582	4.57	2	-674.8	70	120	NewName Main CR1 Failed
Se	82	1	nogas	2.155	15.159	560	7.14	2	107.8	70	120	
Sr	88	1	nogas	1.904	3.254	33685	1.48	2	95.2	70	120	
Mo	95	1	nogas	2.042	9.019	7912	6.57	2	102.1	70	120	
Ag	107	1	nogas	1.954	5.291	17714	3.28	2	97.7	70	120	
Cd	111	1	nogas	1.857	1.283	3228	3.12	2	92.9	70	120	
Sn	118	1	nogas	1.988	2.554	13443	1.68	2	99.4	70	120	
Sb	121	1	nogas	1.943	10.143	17811	7.84	2	97.2	70	120	
Ba	137	1	nogas	1.792	7.089	5408	5.52	2	89.6	70	120	
Tl	205	1	nogas	1.942	7.293	35677	0.90	2	97.1	70	120	
Pb	208	1	nogas	1.920	7.058	51179	2.03	2	96.0	70	120	
[Pb]	206	1	nogas	1.927	7.903	12913	2.51	2	96.3	70	120	
[Pb]	207	1	nogas	1.920	5.560	11008	1.48	2	96.0	70	120	
U	238	1	nogas	1.822	7.757	54990	1.63	2	91.1	70	120	
Li	7	1	nogas	1.866	3.989	74697	0.90	2	93.3	70	120	
Ba	135	1	nogas	1.824	7.231	3144	5.73	2	91.2	70	120	
Tl	203	1	nogas	1.964	4.368	15012	3.41	2	98.2	70	120	
Na	23	2	He	197.363	0.696	270343	0.75	200	98.7	70	120	
Mg	24	2	He	201.012	2.294	126203	2.50	200	100.5	70	120	
Al	27	2	He	0.217	295.944	1653	14.33	2	10.9	70	120	NewName Main CR1 Failed
K	39	2	He	195.489	1.275	214499	0.98	200	97.7	70	120	
Ca	43	2	He	180.487	13.150	380	11.47	200	90.2	70	120	
Ca	44	2	He	199.116	7.786	6895	7.12	200	99.6	70	120	
V	51	2	He	2.093	1.188	8357	1.06	2	104.7	70	120	
Cr	52	2	He	1.710	3.165	14641	1.69	2	85.5	70	120	
Mn	55	2	He	1.824	3.485	7219	2.75	2	91.2	70	120	
Fe	56	2	He	197.774	0.372	781017	0.35	200	98.9	70	120	
Co	59	2	He	1.937	4.967	10737	4.69	2	96.9	70	120	
Ni	60	2	He	1.901	8.627	2704	7.95	2	95.0	70	120	
Cu	63	2	He	1.964	4.611	7215	4.16	2	98.2	70	120	
Zn	66	2	He	1.637	32.935	2264	17.07	2	81.9	70	120	
As	75	2	He	1.955	6.810	1327	5.32	2	97.7	70	120	
Se	77	2	He	-1.142	-107.521	67	31.22	2	-57.1	70	120	NewName Main CR1 Failed
Sb	121	2	He	1.915	2.932	7569	2.35	2	95.8	70	120	
Se	78	2	He	2.137	9.939	172	6.98	2	106.8	70	120	
Ti	47	2	He	2.067	21.888	357	21.23	2	103.3	70	120	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1421590	0.83	1411661	100.70	70	120	
In	115	1	nogas	1714106	2.14	1676050	102.27	70	120	
Li	6	1	nogas	701794	0.21	699034	100.39	70	120	
Bi	209	1	nogas	1683649	6.55	1624905	103.62	70	120	
Ge	72	2	He	428444	0.23	431445	99.30	70	120	
In	115	2	He	688541	0.75	682631	100.87	70	120	

Low Level Continuing Calibration Verification (LLCCV) Report

Sample Table

Sample Name	LLICV5
Data File Name	020LCV5.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T12:07:40-05:00
Sample Type	LLCCV5
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	1	nogas	4.490	1.950	15853	1.02	5	89.8	70	130	
B	11	1	nogas	26.891	0.819	74804	1.06	25	107.6	70	130	
Al	27	1	nogas	2.840	7.385	68754	2.63	5	56.8	70	130	NewName Main CR1 Failed
P	31	1	nogas	-883.636	-0.886	45999	0.93	25	-3534.5	70	130	NewName Main CR1 Failed
Ti	47	1	nogas	4.912	6.072	4854	5.32	5	98.2	70	130	
Ni	60	1	nogas	4.942	5.196	13967	4.60	5	98.8	70	130	
Cu	63	1	nogas	4.885	3.400	38570	3.26	5	97.7	70	130	
Zn	66	1	nogas	4.660	0.478	11181	0.85	5	93.2	70	130	
Se	77	1	nogas	-6.117	-60.427	8292	4.11	5	-122.3	70	130	NewName Main CR1 Failed
Se	82	1	nogas	4.929	28.022	877	17.54	5	98.6	70	130	
Sr	88	1	nogas	4.812	2.341	83188	0.60	5	96.2	70	130	
Mo	95	1	nogas	4.784	4.605	18088	3.77	5	95.7	70	130	
Ag	107	1	nogas	4.884	1.325	44167	0.89	5	97.7	70	130	
Cd	111	1	nogas	4.670	4.588	8089	2.66	5	93.4	70	130	
Sn	118	1	nogas	4.841	3.684	29544	2.38	5	96.8	70	130	
Sb	121	1	nogas	4.827	2.570	40046	2.60	5	96.5	70	130	
Ba	137	1	nogas	4.697	3.423	13657	1.52	5	93.9	70	130	
Tl	205	1	nogas	4.781	7.145	88026	1.73	5	95.6	70	130	
Pb	208	1	nogas	4.847	8.018	125725	2.35	5	96.9	70	130	
U	238	1	nogas	4.477	6.606	135532	1.03	5	89.5	70	130	
Li	7	1	nogas	4.470	2.995	103384	0.69	5	89.4	70	130	
Na	23	2	He	482.615	0.413	593988	0.31	500	96.5	70	130	
Mg	24	2	He	483.144	0.828	307224	1.04	500	96.6	70	130	
Al	27	2	He	3.015	25.175	2740	10.35	5	60.3	70	130	NewName Main CR1 Failed
K	39	2	He	479.032	0.901	404701	0.53	500	95.8	70	130	
Ca	43	2	He	414.301	17.539	820	16.41	500	82.9	70	130	
Ca	44	2	He	472.071	4.102	15485	3.68	500	94.4	70	130	
V	51	2	He	5.162	8.901	20296	8.54	5	103.2	70	130	
Cr	52	2	He	4.750	4.489	27923	3.09	5	95.0	70	130	
Mn	55	2	He	4.707	2.108	16900	1.93	5	94.1	70	130	
Fe	56	2	He	489.570	1.056	1942097	0.85	500	97.9	70	130	
Co	59	2	He	4.929	0.711	27465	0.92	5	98.6	70	130	
Ni	60	2	He	5.030	2.988	6998	2.93	5	100.6	70	130	
Cu	63	2	He	4.933	1.922	17474	1.67	5	98.7	70	130	
Zn	66	2	He	4.232	1.959	4204	1.58	5	84.6	70	130	
As	75	2	He	4.878	2.306	2974	1.92	5	97.6	70	130	
Sb	121	2	He	4.749	1.887	17321	1.56	5	95.0	70	130	
Se	78	2	He	4.825	9.616	330	8.33	5	96.5	70	130	
Ti	47	2	He	4.726	25.819	810	25.21	5	94.5	70	130	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1433214	0.53	1411661	101.53	70	120	
In	115	1	nogas	1717342	1.94	1676050	102.46	70	120	
Li	6	1	nogas	699254	0.92	699034	100.03	70	120	
Bi	209	1	nogas	1699443	5.77	1624905	104.59	70	120	
Ge	72	2	He	434891	0.22	431445	100.80	70	120	
In	115	2	He	693027	0.63	682631	101.52	70	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICB
Data File Name	022_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T12:11:54-05:00
Sample Type	ICB
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	1	nogas	0.012	45.9	107	18.9	2.5	
B	11	1	nogas	1.793	2.1	21251	0.8	2.5	
Al	27	1	nogas	-1.837	-4.1	24974	2.3	5	
P	31	1	nogas	-900.407	-1.2	46451	0.9	2.5	
Ti	47	1	nogas	-0.045	-160.6	143	49.0	2.5	
Ni	60	1	nogas	0.023	135.1	617	13.5	2.5	
Cu	63	1	nogas	-0.157	-19.2	6188	3.8	2.5	
Zn	66	1	nogas	-0.156	-68.4	2380	7.7	2.5	
Se	77	1	nogas	-43.361	-9.1	5131	6.4	2.5	
Se	82	1	nogas	-0.650	-88.3	253	25.7	2.5	
Sr	88	1	nogas	0.013	14.1	1627	2.6	2.5	
Mo	95	1	nogas	-0.028	-22.6	270	7.4	2.5	
Ag	107	1	nogas	-0.001	-860.0	150	29.1	2.5	
Cd	111	1	nogas	-0.003	-388.5	19	93.2	2.5	
Sn	118	1	nogas	-0.116	-6.9	1627	3.0	2.5	
Sb	121	1	nogas	-0.211	-9.1	1493	9.5	2.5	
Ba	137	1	nogas	0.146	6.4	757	2.8	2.5	
Tl	205	1	nogas	0.002	323.8	467	16.1	2.5	
Pb	208	1	nogas	-0.053	-10.2	1680	4.5	2.5	
U	238	1	nogas	-0.005	-74.0	470	18.9	2.5	
Na	23	2	He	-5.659	-14.1	47736	1.2	100	
Mg	24	2	He	1.521	9.6	1467	6.3	100	
Al	27	2	He	-1.476	-14.6	1053	8.0	5	
K	39	2	He	0.464	551.9	90605	1.8	100	
Ca	43	2	He	-0.676	-771.7	50	20.0	100	
Ca	44	2	He	12.961	26.3	1230	9.4	100	
V	51	2	He	-0.043	-206.9	261	135.2	2.5	
Cr	52	2	He	-0.644	-6.6	4828	3.4	2.5	
Mn	55	2	He	-0.130	-12.1	853	6.8	2.5	
Fe	56	2	He	3.978	5.0	29927	3.3	100	
Co	59	2	He	-0.008	-19.8	130	7.7	2.5	
Ni	60	2	He	0.086	33.9	283	14.7	2.5	
Cu	63	2	He	-0.043	-15.8	473	5.3	2.5	
Zn	66	2	He	-0.349	-13.9	853	4.7	2.5	
As	75	2	He	-0.133	-24.7	188	9.8	2.5	
Sb	121	2	He	-0.179	-22.7	570	24.9	2.5	
Se	78	2	He	0.252	87.9	67	19.1	2.5	
Ti	47	2	He	-0.002	-1567.5	13	43.3	2.5	

Initial Calibration Blank (ICB) Report

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1462361	0.70	1411661	103.59	70	120	
In	115	1	nogas	1730375	1.63	1676050	103.24	70	120	
Li	6	1	nogas	710875	0.64	699034	101.69	70	120	
Bi	209	1	nogas	1671880	7.20	1624905	102.89	70	120	
Ge	72	2	He	442173	0.70	431445	102.49	70	120	
In	115	2	He	693377	0.16	682631	101.57	70	120	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSA
Data File Name	023ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T12:14:00-05:00
Sample Type	ICSA
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	1	nogas	0.023	70.981	132	40.25	2	1.2	100	50	
B	11	1	nogas	2.756	11.411	21103	3.15	20	13.8	100	50	ICSA Main CR1 Failed
Al	27	1	nogas	96138.944	1.439	872974947	0.94	10	961389.4	100	0	
P	31	1	nogas	1760971.783	0.761	47757111	0.68	20	8804858.9	100	50	ICSA Main CR1 FailedICSA Main CR2 Failed
Ti	47	1	nogas	2057.168	1.527	1877150	1.35	5	41143.4	100	50	ICSA Main CR1 Failed
Ni	60	1	nogas	2.166	4.172	6165	3.85	5	43.3	100	50	
Cu	63	1	nogas	2.214	17.658	20468	11.37	2	110.7	100	50	
Zn	66	1	nogas	3.346	4.545	8409	3.74	5	66.9	100	50	ICSA Main CR1 Failed
Se	77	1	nogas	5.662	24.691	8943	0.96	5	113.2	100	50	ICSA Main CR1 Failed
Se	82	1	nogas	-0.448	-84.121	260	15.38	2	-22.4	100	50	
Sr	88	1	nogas	0.864	2.716	14541	1.04	5	17.3	100	50	
Mo	95	1	nogas	1994.766	3.108	6675697	1.46	5	39895.3	100	50	ICSA Main CR1 Failed
Ag	107	1	nogas	0.040	26.793	467	17.32	5	0.8	100	50	
Cd	111	1	nogas	0.817	26.789	1294	25.14	2	40.8	100	50	
Sn	118	1	nogas	0.017	79.532	2137	3.54	10	0.2	100	50	
Sb	121	1	nogas	-0.019	-160.794	2817	7.86	4	-0.5	100	50	
Ba	137	1	nogas	0.307	18.306	1090	11.71	5	6.1	100	50	
Tl	205	1	nogas	0.012	54.879	587	18.70	2	0.6	100	50	
Pb	208	1	nogas	0.895	8.886	22924	3.46	5	17.9	100	50	
U	238	1	nogas	-0.003	-63.322	480	7.51	5	-0.1	0	50	
Li	7	1	nogas	0.318	9.003	52555	0.56		#DIV/0!	0	50	
Ba	135	1	nogas	0.304	12.267	613	8.98		#DIV/0!	0	50	
Tl	203	1	nogas	0.011	79.756	280	17.86		#DIV/0!	0	50	
Na	23	2	He	99325.957	0.665	106136125	0.38	200	49663.0	100	0	
Mg	24	2	He	96863.112	0.543	58627606	0.31	200	48431.6	100	0	
Al	27	2	He	98723.015	0.541	35719060	0.77	10	987230.2	100	0	
K	39	2	He	98780.470	0.275	62185854	0.66	200	49390.2	100	0	
Ca	43	2	He	94330.092	1.022	167105	0.60	200	47165.0	100	0	
Ca	44	2	He	96288.708	0.154	2855210	0.44	200	48144.4	100	0	
V	51	2	He	0.553	11.631	2433	10.07	5	11.1	100	50	
Cr	52	2	He	0.744	10.766	10210	3.05	5	14.9	100	50	
Mn	55	2	He	1.224	2.507	5084	2.09	5	24.5	100	50	
Fe	56	2	He	97604.968	0.728	366521888	0.31	200	48802.5	100	50	ICSA Main CR1 Failed
Co	59	2	He	1.048	5.640	5695	5.08	5	21.0	100	50	
Ni	60	2	He	1.144	8.270	1637	7.64	5	22.9	100	50	
Cu	63	2	He	0.715	2.730	2914	2.60	2	35.8	100	50	
Zn	66	2	He	2.411	15.597	2734	10.06	5	48.2	100	50	
As	75	2	He	0.390	16.671	453	7.64	5	7.8	100	50	
Sb	121	2	He	0.045	110.235	1260	12.60	4	1.1	100	50	
Se	78	2	He	0.447	54.589	73	18.56	2	22.3	100	50	
Ti	47	2	He	1993.892	0.809	320538	1.01	5	39877.8	100	50	ICSA Main CR1 Failed
Cr	52	1	nogas	0.277	21.030	29021	2.08		#DIV/0!	0	50	
Mn	55	1	nogas	0.774	3.523	21349	1.69		#DIV/0!	0	50	
Co	59	1	nogas	1.062	5.426	13006	4.82		#DIV/0!	0	50	
V	51	1	nogas	1.098	17.132	7264	34.56		#DIV/0!	0	50	
Fe	56	1	nogas	96708.781	0.770	1205820622	0.85		#DIV/0!	0	50	ICSA Main CR1 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1374705	0.56	1411661	97.38	70	120	
In	115	1	nogas	1551947	1.68	1676050	92.60	70	120	
Li	6	1	nogas	642340	0.22	699034	91.89	70	120	
Bi	209	1	nogas	1514714	5.49	1624905	93.22	70	120	
Ge	72	2	He	414598	0.43	431445	96.10	70	120	
In	115	2	He	616277	1.01	682631	90.28	70	120	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSAB
Data File Name	024ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T12:16:04-05:00
Sample Type	ICSB
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	1	nogas	93.486	1.456	294838	1.13	100	93.5	80	120	
B	11	1	nogas	502.531	2.284	982703	1.92	100	502.5	80	120	ICSB Main CR1 Failed
Al	27	1	nogas	98787.433	0.982	922824946	1.19	100100	98.7	80	120	
Ti	47	1	nogas	2273.600	0.992	2134258	1.24	2100	108.3	80	120	
Ni	60	1	nogas	95.425	2.036	256366	2.13	100	95.4	80	120	
Cu	63	1	nogas	97.473	1.390	627087	1.70	100	97.5	80	120	
Zn	66	1	nogas	102.032	2.072	187548	2.37	100	102.0	80	120	
Se	77	1	nogas	141.780	9.949	20965	6.01	100	141.8	80	120	ICSB Main CR1 Failed
Se	82	1	nogas	106.223	4.145	12125	4.27	100	106.2	80	120	
Sr	88	1	nogas	109.584	2.480	1697854	1.64	100	109.6	80	120	
Mo	95	1	nogas	2207.226	1.325	7445962	0.55	2100	105.1	80	120	
Ag	107	1	nogas	109.571	2.013	899408	1.26	100	109.6	80	120	
Cd	111	1	nogas	104.022	1.637	163719	0.87	100	104.0	80	120	
Sn	118	1	nogas	105.852	2.589	545257	1.65	100	105.9	80	120	
Sb	121	1	nogas	100.368	0.753	761434	1.08	100	100.4	80	120	
Ba	137	1	nogas	106.657	2.266	275809	1.33	100	106.7	80	120	
Tl	205	1	nogas	103.533	5.779	1713679	2.11	100	103.5	80	120	
Pb	208	1	nogas	105.392	5.787	2412690	2.10	100	105.4	80	120	
U	238	1	nogas	102.011	6.321	2775931	2.65	100	102.0	80	120	
Li	7	1	nogas	99.540	1.254	1040669	0.87	100	99.5	80	120	
Na	23	2	He	115507.004	0.848	124421575	0.38	110000	105.0	80	120	
Mg	24	2	He	112713.047	0.532	68776854	0.65	110000	102.5	80	120	
Al	27	2	He	104171.599	1.045	37995937	0.72	100100	104.1	80	120	
K	39	2	He	114456.704	1.286	72623852	0.73	110000	104.1	80	120	
Ca	43	2	He	111407.881	1.107	198957	0.85	110000	101.3	80	120	
Ca	44	2	He	118316.605	1.047	3536827	1.33	110000	107.6	80	120	
V	51	2	He	101.930	0.974	377608	0.75	100	101.9	80	120	
Cr	52	2	He	100.059	1.957	420456	1.81	100	100.1	80	120	
Mn	55	2	He	102.472	1.019	328224	1.62	100	102.5	80	120	
Fe	56	2	He	112785.147	0.543	426973207	0.24	110000	102.5	80	120	
Co	59	2	He	98.090	1.481	522059	0.79	100	98.1	80	120	
Ni	60	2	He	95.699	1.560	125161	1.06	100	95.7	80	120	
Cu	63	2	He	96.032	0.289	316077	1.00	100	96.0	80	120	
Zn	66	2	He	102.905	0.100	73697	0.83	100	102.9	80	120	
As	75	2	He	104.928	2.146	56381	1.55	100	104.9	80	120	
Sb	121	2	He	100.350	0.138	329126	0.79	100	100.3	80	120	
Se	78	2	He	107.089	2.399	5999	1.72	100	107.1	80	120	
Ti	47	2	He	2206.536	0.452	357605	0.55	100	2206.5	80	120	ICSB Main CR1 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1414163	0.43	1411661	100.18	70	120	
In	115	1	nogas	1563981	0.96	1676050	93.31	70	120	
Li	6	1	nogas	626839	0.33	699034	89.67	70	120	
Bi	209	1	nogas	1533128	3.82	1624905	94.35	70	120	
Ge	72	2	He	417978	0.76	431445	96.88	70	120	
In	115	2	He	625083	0.53	682631	91.57	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	027_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T12:25:17-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	1	nogas	94.596	1.567	319171	0.47	100	94.6	90	110	
B	11	1	nogas	465.810	1.927	975688	0.80	500	93.2	90	110	
Al	27	1	nogas	100.401	0.563	1023240	0.82	100	100.4	90	110	
P	31	1	nogas	187.157	19.536	78601	1.04	500	37.4	90	110	CCV Main CR1-2 Failed
Ti	47	1	nogas	99.009	1.771	97301	1.67	100	99.0	90	110	
Ni	60	1	nogas	98.913	0.887	277678	1.18	100	98.9	90	110	
Cu	63	1	nogas	98.980	0.458	665303	0.61	100	99.0	90	110	
Zn	66	1	nogas	98.783	0.553	189823	0.32	100	98.8	90	110	
Se	77	1	nogas	98.794	2.555	18025	1.06	100	98.8	90	110	
Se	82	1	nogas	99.121	2.679	11845	2.50	100	99.1	90	110	
Sr	88	1	nogas	99.807	1.844	1722383	0.94	100	99.8	90	110	
Mo	95	1	nogas	97.812	1.735	367831	0.80	100	97.8	90	110	
Ag	107	1	nogas	98.394	1.185	899560	0.84	100	98.4	90	110	
Cd	111	1	nogas	97.295	1.596	170553	1.44	100	97.3	90	110	
Sn	118	1	nogas	97.957	2.759	562116	1.58	100	98.0	90	110	
Sb	121	1	nogas	97.257	0.802	771138	1.06	100	97.3	90	110	
Ba	137	1	nogas	96.892	3.080	279053	1.95	100	96.9	90	110	
Tl	205	1	nogas	98.333	6.869	1827325	1.53	100	98.3	90	110	
Pb	208	1	nogas	98.458	6.445	2531113	1.10	100	98.5	90	110	
U	238	1	nogas	92.903	6.504	2839100	1.23	100	92.9	90	110	
Li	7	1	nogas	93.959	0.973	1053857	0.63	100	94.0	90	110	
Ba	135	1	nogas	97.968	2.191	161807	1.08	100	98.0	90	110	
Tl	203	1	nogas	97.491	7.279	750412	1.96	100	97.5	90	110	
Na	23	2	He	9903.856	0.331	11308056	1.13	10000	99.0	90	110	
Mg	24	2	He	9932.215	1.745	6396858	2.61	10000	99.3	90	110	
Al	27	2	He	101.009	3.859	40487	2.42	100	101.0	90	110	
K	39	2	He	9973.576	0.980	6760518	0.61	10000	99.7	90	110	
Ca	43	2	He	9724.805	1.471	18375	1.78	10000	97.2	90	110	
Ca	44	2	He	9959.617	1.513	314937	1.89	10000	99.6	90	110	
V	51	2	He	97.212	0.865	380062	0.74	100	97.2	90	110	
Cr	52	2	He	98.236	1.879	435719	0.58	100	98.2	90	110	
Mn	55	2	He	99.912	1.348	337725	1.08	100	99.9	90	110	
Fe	56	2	He	10025.145	1.005	40062615	0.56	10000	100.3	90	110	
Co	59	2	He	99.347	0.979	557996	0.68	100	99.3	90	110	
Ni	60	2	He	99.760	0.798	137682	0.63	100	99.8	90	110	
Cu	63	2	He	99.328	1.178	344963	1.05	100	99.3	90	110	
Zn	66	2	He	97.917	1.426	74056	1.69	100	97.9	90	110	
As	75	2	He	97.568	1.153	55346	0.94	100	97.6	90	110	
Sb	121	2	He	96.594	0.896	334352	0.54	100	96.6	90	110	
Se	78	2	He	98.870	2.769	5848	1.53	100	98.9	90	110	
Ti	47	2	He	98.941	2.639	16940	4.02	100	98.9	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1477802	0.31	1411661	104.69	70	120	
In	115	1	nogas	1741841	1.19	1676050	103.93	70	120	
Li	6	1	nogas	670666	1.12	699034	95.94	70	120	
Bi	209	1	nogas	1723061	5.53	1624905	106.04	70	120	
Ge	72	2	He	441104	1.38	431445	102.24	70	120	
In	115	2	He	681765	0.66	682631	99.87	70	120	

Sample Report

Sample Table

Sample Name	MBLK-213517
Data File Name	033SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T12:37:55-05:00
Sample Type	Sample
Dilution	1
Comment	TWDOD 213517
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	1	nogas	0.002	0.002	341.84	68	0.00	2000	
B	11	1	nogas	0.464	0.464	55.33	18191	0.00	2000	
Al	27	1	nogas	1.576	1.576	13.06	58829	0.00	2000	
Ti	47	1	nogas	0.035	0.035	96.04	223	0.02	2000	
Ni	60	1	nogas	0.030	0.030	182.99	647	0.00	2000	
Cu	63	1	nogas	-0.013	-0.013	-393.51	7239	0.00	2000	
Zn	66	1	nogas	-0.244	-0.244	-34.79	2250	-0.01	2000	
Se	77	1	nogas	21.908	21.908	11.08	11131	0.20	2000	
Se	82	1	nogas	-0.284	-0.284	-182.75	300	-0.09	2000	
Sr	88	1	nogas	-0.003	-0.003	-395.59	1410	0.00	2000	
Mo	95	1	nogas	0.094	0.094	3.89	750	0.01	2000	
Ag	107	1	nogas	-0.003	-0.003	-69.32	130	0.00	2000	
Cd	111	1	nogas	-0.016	-0.016	-42.79	-4	0.37	2000	
Sn	118	1	nogas	0.019	0.019	111.04	2477	0.00	2000	
Sb	121	1	nogas	-0.211	-0.211	-6.53	1517	-0.01	2000	
Ba	137	1	nogas	0.051	0.051	65.46	503	0.01	2000	
Tl	205	1	nogas	-0.005	-0.005	-86.97	353	0.00	2000	
Pb	208	1	nogas	-0.057	-0.057	-7.58	1610	0.00	2000	
U	238	1	nogas	-0.009	-0.009	-27.82	380	0.00	2000	
Na	23	2	He	-3.574	-3.574	-18.04	51426	-0.01	200000	
Mg	24	2	He	1.418	1.418	25.94	1437	0.10	200000	
Al	27	2	He	1.721	1.721	23.68	2347	0.07	2000	
K	39	2	He	4.260	4.260	47.95	95601	0.00	200000	
Ca	43	2	He	-4.865	-4.865	-261.16	43	-11.23	200000	
Ca	44	2	He	7.259	7.259	33.51	1077	0.67	200000	
V	51	2	He	-0.703	-0.703	-29.66	-2381	0.03	2000	
Cr	52	2	He	-0.140	-0.140	-32.54	7212	0.00	2000	
Mn	55	2	He	-0.061	-0.061	-83.22	1113	-0.01	2000	
Fe	56	2	He	1.532	1.532	4.15	20658	0.01	200000	
Co	59	2	He	-0.013	-0.013	-48.60	110	-0.01	2000	
Ni	60	2	He	0.027	0.027	146.23	207	0.01	2000	
Cu	63	2	He	0.043	0.043	55.34	793	0.01	2000	
Zn	66	2	He	-0.347	-0.347	-39.16	877	-0.04	2000	
As	75	2	He	0.044	0.044	70.24	296	0.01	2000	
Sb	121	2	He	-0.142	-0.142	-5.98	717	-0.02	2000	
Se	78	2	He	0.255	0.255	81.50	69	0.37	2000	
Ti	47	2	He	-0.004	-0.004	-750.11	13	-0.03	200	

QC ISTD Table

Sample Report

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1484515	0.31	1411661	105.16	70	120	
In	115	1	nogas	1791012	0.69	1676050	106.86	70	120	
Li	6	1	nogas	704821	0.60	699034	100.83	70	120	
Bi	209	1	nogas	1701175	3.49	1624905	104.69	70	120	
Ge	72	2	He	453782	1.17	431445	105.18	70	120	
In	115	2	He	714925	0.50	682631	104.73	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	039_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T12:50:35-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	1	nogas	92.920	1.541	313748	1.39	100	92.9	90	110	
B	11	1	nogas	488.334	1.749	1022847	1.51	500	97.7	90	110	
Al	27	1	nogas	98.888	0.899	1012119	1.57	100	98.9	90	110	
P	31	1	nogas	85.413	41.889	75918	2.11	500	17.1	90	110	CCV Main CR1-2 Failed
Ti	47	1	nogas	99.042	2.159	97693	2.80	100	99.0	90	110	
Ni	60	1	nogas	98.569	0.168	277702	0.72	100	98.6	90	110	
Cu	63	1	nogas	98.750	0.773	666179	1.46	100	98.7	90	110	
Zn	66	1	nogas	98.689	1.479	190341	2.19	100	98.7	90	110	
Se	77	1	nogas	99.740	4.899	18175	2.37	100	99.7	90	110	
Se	82	1	nogas	101.941	3.685	12219	4.30	100	101.9	90	110	
Sr	88	1	nogas	98.617	1.962	1733133	1.00	100	98.6	90	110	
Mo	95	1	nogas	97.497	1.675	373388	0.68	100	97.5	90	110	
Ag	107	1	nogas	98.163	1.917	913883	0.92	100	98.2	90	110	
Cd	111	1	nogas	98.464	3.621	175745	2.75	100	98.5	90	110	
Sn	118	1	nogas	98.760	2.049	577163	1.09	100	98.8	90	110	
Sb	121	1	nogas	100.889	1.286	802723	2.00	100	100.9	90	110	
Ba	137	1	nogas	99.621	3.415	292186	2.54	100	99.6	90	110	
Tl	205	1	nogas	98.817	6.494	1888342	2.01	100	98.8	90	110	
Pb	208	1	nogas	99.615	6.441	2633008	1.99	100	99.6	90	110	
U	238	1	nogas	97.770	5.875	3072632	1.37	100	97.8	90	110	
Li	7	1	nogas	93.330	0.287	1047867	0.18	100	93.3	90	110	
Ba	135	1	nogas	97.883	2.112	164643	1.26	100	97.9	90	110	
Tl	203	1	nogas	99.158	6.885	784884	2.38	100	99.2	90	110	
Na	23	2	He	9858.500	0.431	11274486	0.28	10000	98.6	90	110	
Mg	24	2	He	9877.545	0.327	6371275	0.42	10000	98.8	90	110	
Al	27	2	He	96.111	1.776	38676	1.74	100	96.1	90	110	
K	39	2	He	9868.404	1.226	6701340	1.33	10000	98.7	90	110	
Ca	43	2	He	9785.087	1.964	18518	2.08	10000	97.9	90	110	
Ca	44	2	He	9765.040	1.014	309289	0.86	10000	97.7	90	110	
V	51	2	He	98.208	0.486	384588	0.62	100	98.2	90	110	
Cr	52	2	He	98.608	0.542	438100	0.44	100	98.6	90	110	
Mn	55	2	He	99.505	1.650	336913	1.64	100	99.5	90	110	
Fe	56	2	He	10023.863	0.764	40123776	0.58	10000	100.2	90	110	
Co	59	2	He	100.137	0.888	563358	0.77	100	100.1	90	110	
Ni	60	2	He	99.411	0.676	137426	0.49	100	99.4	90	110	
Cu	63	2	He	100.104	0.741	348225	0.78	100	100.1	90	110	
Zn	66	2	He	97.984	1.470	74224	1.27	100	98.0	90	110	
As	75	2	He	97.837	1.101	55589	0.99	100	97.8	90	110	
Sb	121	2	He	98.168	1.008	340343	0.85	100	98.2	90	110	
Se	78	2	He	96.736	1.566	5733	1.57	100	96.7	90	110	
Ti	47	2	He	97.683	3.008	16746	2.82	100	97.7	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1483105	0.74	1411661	105.06	70	120	
In	115	1	nogas	1773841	1.00	1676050	105.83	70	120	
Li	6	1	nogas	671093	0.22	699034	96.00	70	120	
Bi	209	1	nogas	1770987	4.70	1624905	108.99	70	120	
Ge	72	2	He	441800	0.19	431445	102.40	70	120	
In	115	2	He	686948	1.55	682631	100.63	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	040_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T12:52:40-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	1	nogas	0.079	46.9	345	39.5	2.5	
B	11	1	nogas	31.165	8.7	85014	7.5	2.5	CCB Main CR1 Failed
Al	27	1	nogas	-2.761	-2.8	16275	4.7	5	
P	31	1	nogas	-852.135	-1.0	48501	0.7	2.5	
Ti	47	1	nogas	0.154	64.0	340	28.4	2.5	
Ni	60	1	nogas	0.101	16.0	843	5.5	2.5	
Cu	63	1	nogas	-0.025	-96.3	7149	2.1	5	
Zn	66	1	nogas	-0.382	-5.1	1983	2.0	2.5	
Se	77	1	nogas	-42.240	-2.1	5304	1.4	2.5	
Se	82	1	nogas	0.377	148.0	377	17.3	5	
Sr	88	1	nogas	0.002	769.0	1493	18.4	2.5	
Mo	95	1	nogas	0.699	27.7	3097	25.8	2.5	
Ag	107	1	nogas	0.042	33.6	557	24.5	2.5	
Cd	111	1	nogas	0.045	151.7	107	116.1	2.5	
Sn	118	1	nogas	0.546	16.4	5585	10.8	2.5	
Sb	121	1	nogas	0.764	16.2	9243	10.6	2.5	
Ba	137	1	nogas	0.015	149.9	397	16.8	2.5	
Tl	205	1	nogas	0.649	44.2	13018	50.3	2.5	
Pb	208	1	nogas	0.000	9124.7	3197	24.6	2.5	
U	238	1	nogas	0.064	37.6	2690	36.1	2.5	
Na	23	2	He	75.964	168.1	143310	103.6	100	
Mg	24	2	He	2.809	20.6	2337	16.5	100	
Al	27	2	He	-2.796	-12.2	553	24.5	5	
K	39	2	He	6.211	41.6	96034	2.1	100	
Ca	43	2	He	-14.995	-19.8	23	24.7	100	
Ca	44	2	He	-5.289	-48.5	663	12.2	100	
V	51	2	He	0.045	466.4	616	134.8	2.5	
Cr	52	2	He	-0.840	-8.3	4037	7.4	2.5	
Mn	55	2	He	-0.119	-6.7	903	2.8	2.5	
Fe	56	2	He	4.653	15.1	33174	8.9	100	
Co	59	2	He	0.017	27.0	280	9.4	2.5	
Ni	60	2	He	0.112	62.1	323	30.0	2.5	
Cu	63	2	He	0.060	38.9	843	9.5	5	
Zn	66	2	He	-0.543	-4.5	720	2.4	2.5	
As	75	2	He	0.009	641.5	272	11.4	2.5	
Sb	121	2	He	0.554	7.1	3157	4.1	2.5	
Se	78	2	He	0.590	35.1	88	13.8	5	
Ti	47	2	He	0.016	208.6	17	34.6	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1482494	0.18	1411661	105.02	70	120	
In	115	1	nogas	1792722	1.44	1676050	106.96	70	120	
Li	6	1	nogas	707671	1.02	699034	101.24	70	120	

Continuing Calibration Blank (CCB) Report

Bi	209	1	nogas	1753909	7.27	1624905	107.94	70	120	
Ge	72	2	He	449522	0.26	431445	104.19	70	120	
In	115	2	He	710520	0.54	682631	104.09	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	052_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T13:24:07-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	1	nogas	92.358	1.125	273393	0.40	100	92.4	90	110	
B	11	1	nogas	453.061	2.151	832941	1.40	500	90.6	90	110	
Al	27	1	nogas	91.497	0.564	862339	0.84	100	91.5	90	110	
P	31	1	nogas	121.641	40.060	70632	1.46	500	24.3	90	110	CCV Main CR1-2 Failed
Ti	47	1	nogas	98.601	2.388	89245	2.35	100	98.6	90	110	
Ni	60	1	nogas	97.058	0.445	250953	1.12	100	97.1	90	110	
Cu	63	1	nogas	97.946	1.077	606446	1.77	100	97.9	90	110	
Zn	66	1	nogas	98.847	1.433	174952	2.13	100	98.8	90	110	
Se	77	1	nogas	61.577	6.841	13506	3.13	100	61.6	90	110	CCV Main CR1-2 Failed
Se	82	1	nogas	99.060	2.907	10904	3.53	100	99.1	90	110	
Sr	88	1	nogas	96.892	2.339	1597164	1.39	100	96.9	90	110	
Mo	95	1	nogas	95.789	2.182	344089	1.36	100	95.8	90	110	
Ag	107	1	nogas	96.517	2.154	842803	1.21	100	96.5	90	110	
Cd	111	1	nogas	96.222	2.398	161099	1.55	100	96.2	90	110	
Sn	118	1	nogas	99.376	2.643	544704	1.78	100	99.4	90	110	
Sb	121	1	nogas	101.450	1.267	740734	1.90	100	101.5	90	110	
Ba	137	1	nogas	98.127	2.892	269956	1.94	100	98.1	90	110	
Tl	205	1	nogas	98.207	6.981	1799630	2.41	100	98.2	90	110	
Pb	208	1	nogas	97.640	7.058	2474716	2.35	100	97.6	90	110	
U	238	1	nogas	94.034	7.353	2832865	2.52	100	94.0	90	110	
Li	7	1	nogas	91.889	0.838	905166	0.37	100	91.9	90	110	
Ba	135	1	nogas	97.612	3.910	153983	3.00	100	97.6	90	110	
Tl	203	1	nogas	99.179	7.236	752828	2.55	100	99.2	90	110	
Na	23	2	He	10141.958	0.995	10626735	1.66	10000	101.4	90	110	
Mg	24	2	He	10148.595	1.035	5997835	0.61	10000	101.5	90	110	
Al	27	2	He	91.323	0.774	33747	1.36	100	91.3	90	110	
K	39	2	He	10430.219	1.499	6484676	0.75	10000	104.3	90	110	
Ca	43	2	He	9712.610	1.969	16843	2.28	10000	97.1	90	110	
Ca	44	2	He	9592.574	0.977	278394	0.07	10000	95.9	90	110	
V	51	2	He	97.012	0.926	348090	0.54	100	97.0	90	110	
Cr	52	2	He	98.033	0.938	399119	0.96	100	98.0	90	110	
Mn	55	2	He	98.546	0.858	305742	0.99	100	98.5	90	110	
Fe	56	2	He	10908.621	1.084	40007159	0.51	10000	109.1	90	110	
Co	59	2	He	99.129	0.702	510991	0.26	100	99.1	90	110	
Ni	60	2	He	98.885	0.139	125258	0.82	100	98.9	90	110	
Cu	63	2	He	100.954	0.420	321775	0.68	100	101.0	90	110	
Zn	66	2	He	97.941	1.426	67977	0.62	100	97.9	90	110	
As	75	2	He	98.575	1.830	51317	1.75	100	98.6	90	110	
Sb	121	2	He	101.516	0.565	322456	1.15	100	101.5	90	110	
Se	78	2	He	97.652	0.826	5302	0.26	100	97.7	90	110	
Ti	47	2	He	98.940	0.710	15542	0.30	100	98.9	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1361053	0.72	1411661	96.41	70	120	
In	115	1	nogas	1663781	0.96	1676050	99.27	70	120	
Li	6	1	nogas	588355	0.72	699034	84.17	70	120	
Bi	209	1	nogas	1698739	5.06	1624905	104.54	70	120	
Ge	72	2	He	404819	0.93	431445	93.83	70	120	
In	115	2	He	643483	0.79	682631	94.27	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	053_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T13:26:12-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	1	nogas	0.162	15.4	563	14.4	2.5	
B	11	1	nogas	13.818	17.2	41673	11.3	2.5	CCB Main CR1 Failed
Al	27	1	nogas	-2.736	-2.9	15308	5.4	5	
P	31	1	nogas	-801.234	-6.1	46304	2.4	2.5	
Ti	47	1	nogas	0.166	78.3	327	36.5	2.5	
Ni	60	1	nogas	0.080	53.9	727	14.7	2.5	
Cu	63	1	nogas	0.079	47.1	7269	2.9	5	
Zn	66	1	nogas	-0.451	-24.5	1717	11.8	2.5	
Se	77	1	nogas	-63.619	-2.3	3120	4.7	2.5	
Se	82	1	nogas	0.111	310.2	320	10.8	5	
Sr	88	1	nogas	0.011	117.1	1563	14.6	2.5	
Mo	95	1	nogas	0.915	19.7	3731	19.0	2.5	
Ag	107	1	nogas	0.149	7.1	1480	5.3	2.5	
Cd	111	1	nogas	0.014	47.2	47	23.0	2.5	
Sn	118	1	nogas	1.312	10.3	9577	9.1	2.5	
Sb	121	1	nogas	1.777	8.3	16002	7.6	2.5	
Ba	137	1	nogas	0.005	1261.2	350	51.5	2.5	
Tl	205	1	nogas	0.382	28.8	7532	33.6	2.5	
Pb	208	1	nogas	0.047	35.2	4270	16.5	2.5	
U	238	1	nogas	0.076	40.0	2964	37.7	2.5	
Na	23	2	He	8.285	12.7	59934	2.3	100	
Mg	24	2	He	3.426	6.4	2540	5.6	100	
Al	27	2	He	-2.335	-2.3	680	2.5	5	
K	39	2	He	11.104	9.1	92069	1.1	100	
Ca	43	2	He	-19.645	-33.0	13	86.6	100	
Ca	44	2	He	-4.992	-62.7	623	14.6	100	
V	51	2	He	-0.082	-276.6	106	788.9	2.5	
Cr	52	2	He	-0.902	-7.2	3484	7.9	2.5	
Mn	55	2	He	-0.136	-10.8	783	5.9	2.5	
Fe	56	2	He	10.849	4.2	54111	3.5	100	
Co	59	2	He	0.019	64.4	267	24.4	2.5	
Ni	60	2	He	0.032	34.8	197	7.8	2.5	
Cu	63	2	He	0.071	95.4	820	27.6	5	
Zn	66	2	He	-0.610	-11.9	620	8.5	2.5	
As	75	2	He	0.092	51.6	297	8.1	2.5	
Sb	121	2	He	1.488	1.4	5968	1.6	2.5	
Se	78	2	He	0.863	23.7	97	11.4	5	
Ti	47	2	He	0.249	136.1	53	103.3	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1373400	0.87	1411661	97.29	70	120	
In	115	1	nogas	1701082	1.21	1676050	101.49	70	120	
Li	6	1	nogas	623451	0.50	699034	89.19	70	120	

Continuing Calibration Blank (CCB) Report

Bi	209	1	nogas	1696826	6.43	1624905	104.43	70	120	
Ge	72	2	He	416506	0.45	431445	96.54	70	120	
In	115	2	He	664551	0.17	682631	97.35	70	120	

Sample Report

Sample Table

Sample Name	HS24060434-09SD
Data File Name	055SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T13:30:24-05:00
Sample Type	Sample
Dilution	5
Comment	TWDOD 213517
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	1	nogas	0.082	0.410	15.41	327	0.03	2000	
B	11	1	nogas	5.311	26.553	3.95	26531	0.02	2000	
Al	27	1	nogas	2.659	13.293	2.19	68586	0.00	2000	
Ti	47	1	nogas	0.593	2.963	26.80	763	0.08	2000	
Ni	60	1	nogas	28.058	140.292	1.86	78538	0.04	2000	
Cu	63	1	nogas	1.309	6.543	4.16	15865	0.01	2000	
Zn	66	1	nogas	2.477	12.384	8.75	7332	0.03	2000	
Se	77	1	nogas	-19.825	-99.125	-26.73	7252	-0.27	2000	
Se	82	1	nogas	-0.166	-0.830	-128.91	310	-0.05	2000	
Sr	88	1	nogas	79.911	399.555	1.81	1404900	0.01	2000	
Mo	95	1	nogas	4.088	20.438	2.15	16029	0.03	2000	
Ag	107	1	nogas	0.079	0.396	18.82	897	0.01	2000	
Cd	111	1	nogas	0.049	0.245	66.08	112	0.04	2000	
Sn	118	1	nogas	0.361	1.806	6.77	4447	0.01	2000	
Sb	121	1	nogas	0.370	1.852	5.58	6055	0.01	2000	
Ba	137	1	nogas	62.164	310.818	1.76	182499	0.03	2000	
Tl	205	1	nogas	0.040	0.199	21.22	1227	0.00	2000	
Pb	208	1	nogas	-0.008	-0.039	-89.50	2984	0.00	2000	
U	238	1	nogas	0.013	0.067	9.70	1087	0.00	2000	
Na	23	2	He	14445.200	72226.002	1.63	16485481	0.09	200000	
Mg	24	2	He	2653.654	13268.269	0.25	1711114	0.16	200000	
Al	27	2	He	2.672	13.361	12.16	2650	0.10	2000	
K	39	2	He	469.956	2349.780	0.83	404847	0.12	200000	
Ca	43	2	He	3568.330	17841.649	6.71	6782	52.62	200000	
Ca	44	2	He	3546.713	17733.565	1.08	112796	3.14	200000	
V	51	2	He	-1.027	-5.135	-16.20	-3584	0.03	2000	
Cr	52	2	He	22.874	114.368	0.83	107433	0.02	2000	
Mn	55	2	He	26.119	130.596	2.21	89344	0.03	2000	
Fe	56	2	He	213.596	1067.979	0.99	868211	0.02	200000	
Co	59	2	He	0.400	2.001	4.29	2427	0.02	2000	
Ni	60	2	He	28.232	141.158	3.40	39121	0.07	2000	
Cu	63	2	He	1.232	6.162	5.75	4898	0.03	2000	
Zn	66	2	He	2.466	12.328	13.85	2950	0.08	2000	
As	75	2	He	0.102	0.508	4.62	320	0.03	2000	
Sb	121	2	He	0.463	2.317	3.49	2787	0.02	2000	
Se	78	2	He	0.547	2.737	33.58	84	0.65	2000	
Ti	47	2	He	0.484	2.422	53.97	97	0.50	200	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1466150	1.03	1411661	103.86	70	120	
In	115	1	nogas	1774133	1.14	1676050	105.85	70	120	
Li	6	1	nogas	651915	0.13	699034	93.26	70	120	
Bi	209	1	nogas	1763394	6.61	1624905	108.52	70	120	

Sample Report

Ge	72	2	He	441567	0.45	431445	102.35	70	120	
In	115	2	He	694373	0.83	682631	101.72	70	120	

Sample Report

Sample Table

Sample Name	HS24060434-09MS
Data File Name	056SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T13:32:28-05:00
Sample Type	Sample
Dilution	1
Comment	TWDOD 213517
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	1	nogas	42.654	42.654	1.17	126204	0.03	2000	
B	11	1	nogas	481.507	481.507	1.99	883720	0.05	2000	
Al	27	1	nogas	104.658	104.658	0.82	998895	0.01	2000	
Ti	47	1	nogas	129.035	129.035	1.96	118907	0.11	2000	
Ni	60	1	nogas	171.526	171.526	0.74	451351	0.04	2000	
Cu	63	1	nogas	49.050	49.050	0.55	312746	0.02	2000	
Zn	66	1	nogas	54.345	54.345	1.05	99110	0.05	2000	
Se	77	1	nogas	65.903	65.903	12.16	14120	0.47	2000	
Se	82	1	nogas	47.649	47.649	4.09	5504	0.87	2000	
Sr	88	1	nogas	514.515	514.515	1.49	8441551	0.01	2000	
Mo	95	1	nogas	61.672	61.672	2.60	220760	0.03	2000	
Ag	107	1	nogas	42.826	42.826	1.62	372543	0.01	2000	
Cd	111	1	nogas	44.591	44.591	5.43	74354	0.06	2000	
Sn	118	1	nogas	83.648	83.648	2.26	456983	0.02	2000	
Sb	121	1	nogas	45.027	45.027	1.91	336514	0.01	2000	
Ba	137	1	nogas	349.695	349.695	1.38	957381	0.04	2000	
Tl	205	1	nogas	44.083	44.083	6.31	781580	0.01	2000	
Pb	208	1	nogas	44.542	44.542	6.25	1093608	0.00	2000	
U	238	1	nogas	82.290	82.290	5.91	2398639	0.00	2000	
Na	23	2	He	71415.101	71415.101	1.10	76506277	0.09	200000	
Mg	24	2	He	18229.913	18229.913	0.86	11060357	0.16	200000	
Al	27	2	He	105.845	105.845	0.93	39912	0.27	2000	
K	39	2	He	7157.144	7157.144	0.73	4595217	0.16	200000	
Ca	43	2	He	21862.410	21862.410	1.46	38860	56.26	200000	
Ca	44	2	He	21371.480	21371.480	0.84	635811	3.36	200000	
V	51	2	He	40.811	40.811	3.38	150563	0.03	2000	
Cr	52	2	He	155.648	155.648	0.91	646351	0.02	2000	
Mn	55	2	He	167.995	167.995	1.57	534222	0.03	2000	
Fe	56	2	He	5905.114	5905.114	1.13	22239378	0.03	200000	
Co	59	2	He	45.453	45.453	0.67	240629	0.02	2000	
Ni	60	2	He	173.405	173.405	0.16	225381	0.08	2000	
Cu	63	2	He	49.157	49.157	0.30	161150	0.03	2000	
Zn	66	2	He	53.923	53.923	2.29	38894	0.14	2000	
As	75	2	He	44.200	44.200	0.65	23759	0.19	2000	
Sb	121	2	He	44.461	44.461	0.59	145611	0.03	2000	
Se	78	2	He	43.775	43.775	2.93	2467	1.77	2000	
Ti	47	2	He	127.066	127.066	0.64	20488	0.62	200	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1386391	0.67	1411661	98.21	70	120	
In	115	1	nogas	1656960	0.75	1676050	98.86	70	120	
Li	6	1	nogas	587981	1.26	699034	84.11	70	120	
Bi	209	1	nogas	1642427	4.56	1624905	101.08	70	120	

Sample Report

Ge	72	2	He	415587	0.57	431445	96.32	70	120	
In	115	2	He	653740	0.13	682631	95.77	70	120	

Sample Report

Sample Table

Sample Name	HS24060434-09MSD
Data File Name	057SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T13:34:35-05:00
Sample Type	Sample
Dilution	1
Comment	TWDOD 213517
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	1	nogas	44.150	44.150	0.63	125623	0.04	2000	
B	11	1	nogas	507.973	507.973	1.25	895882	0.06	2000	
Al	27	1	nogas	108.039	108.039	0.59	1000152	0.01	2000	
Ti	47	1	nogas	137.068	137.068	1.59	122646	0.11	2000	
Ni	60	1	nogas	177.781	177.781	1.11	454303	0.04	2000	
Cu	63	1	nogas	50.791	50.791	1.09	314257	0.02	2000	
Zn	66	1	nogas	56.570	56.570	1.33	100096	0.06	2000	
Se	77	1	nogas	43.541	43.541	12.45	11878	0.37	2000	
Se	82	1	nogas	47.454	47.454	1.47	5324	0.89	2000	
Sr	88	1	nogas	529.181	529.181	0.39	8625632	0.01	2000	
Mo	95	1	nogas	63.433	63.433	0.26	225585	0.03	2000	
Ag	107	1	nogas	43.150	43.150	0.40	372912	0.01	2000	
Cd	111	1	nogas	45.296	45.296	0.70	75051	0.06	2000	
Sn	118	1	nogas	87.789	87.789	1.09	476428	0.02	2000	
Sb	121	1	nogas	47.483	47.483	0.41	344484	0.01	2000	
Ba	137	1	nogas	358.124	358.124	0.84	974115	0.04	2000	
Tl	205	1	nogas	45.566	45.566	5.28	801260	0.01	2000	
Pb	208	1	nogas	45.743	45.743	5.40	1113805	0.00	2000	
U	238	1	nogas	84.820	84.820	5.27	2451860	0.00	2000	
Na	23	2	He	73977.901	73977.901	0.23	78512447	0.09	200000	
Mg	24	2	He	18641.112	18641.112	0.41	11204454	0.17	200000	
Al	27	2	He	106.666	106.666	1.19	39832	0.27	2000	
K	39	2	He	7271.981	7271.981	0.90	4623891	0.16	200000	
Ca	43	2	He	22279.469	22279.469	2.65	39231	56.79	200000	
Ca	44	2	He	22033.550	22033.550	0.63	649382	3.39	200000	
V	51	2	He	40.250	40.250	1.49	147120	0.03	2000	
Cr	52	2	He	158.246	158.246	0.46	650864	0.02	2000	
Mn	55	2	He	173.143	173.143	0.86	545420	0.03	2000	
Fe	56	2	He	6055.704	6055.704	0.38	22593986	0.03	200000	
Co	59	2	He	46.831	46.831	0.97	245605	0.02	2000	
Ni	60	2	He	177.699	177.699	0.67	228797	0.08	2000	
Cu	63	2	He	50.167	50.167	1.12	162913	0.03	2000	
Zn	66	2	He	53.911	53.911	1.67	38523	0.14	2000	
As	75	2	He	44.420	44.420	1.75	23653	0.19	2000	
Sb	121	2	He	45.331	45.331	0.76	147053	0.03	2000	
Se	78	2	He	43.765	43.765	3.42	2444	1.79	2000	
Ti	47	2	He	129.869	129.869	3.42	20745	0.63	200	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1346362	1.25	1411661	95.37	70	120	
In	115	1	nogas	1646051	1.52	1676050	98.21	70	120	
Li	6	1	nogas	565392	0.24	699034	80.88	70	120	
Bi	209	1	nogas	1627736	3.22	1624905	100.17	70	120	

Sample Report

Ge	72	2	He	411703	0.18	431445	95.42	70	120	
In	115	2	He	648868	0.97	682631	95.05	70	120	

Sample Report

Sample Table

Sample Name	HS24060434-09PDS
Data File Name	058SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T13:36:39-05:00
Sample Type	Sample
Dilution	1
Comment	TWDOD 213517
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	1	nogas	84.214	84.214	0.73	249227	0.03	2000	
B	11	1	nogas	36.196	36.196	6.37	79750	0.05	2000	
Al	27	1	nogas	107.279	107.279	1.13	981215	0.01	2000	
Ti	47	1	nogas	94.344	94.344	0.12	83445	0.11	2000	
Ni	60	1	nogas	223.910	223.910	1.43	565009	0.04	2000	
Cu	63	1	nogas	95.041	95.041	0.74	575154	0.02	2000	
Zn	66	1	nogas	102.319	102.319	1.32	176854	0.06	2000	
Se	77	1	nogas	126.917	126.917	5.53	18505	0.69	2000	
Se	82	1	nogas	98.015	98.015	3.66	10544	0.93	2000	
Sr	88	1	nogas	447.052	447.052	1.81	7114184	0.01	2000	
Mo	95	1	nogas	109.867	109.867	1.81	381194	0.03	2000	
Ag	107	1	nogas	90.161	90.161	1.97	760554	0.01	2000	
Cd	111	1	nogas	91.441	91.441	3.22	147911	0.06	2000	
Sn	118	1	nogas	1.443	1.443	5.48	9733	0.01	2000	
Sb	121	1	nogas	90.325	90.325	1.53	644702	0.01	2000	
Ba	137	1	nogas	420.269	420.269	1.65	1115940	0.04	2000	
Tl	205	1	nogas	93.762	93.762	6.22	1600768	0.01	2000	
Pb	208	1	nogas	94.217	94.217	6.18	2224908	0.00	2000	
U	238	1	nogas	0.618	0.618	4.27	17952	0.00	2000	
Na	23	2	He	81562.286	81562.286	0.63	84663479	0.10	200000	
Mg	24	2	He	23865.691	23865.691	0.79	14030398	0.17	200000	
Al	27	2	He	105.370	105.370	2.15	38509	0.27	2000	
K	39	2	He	12270.651	12270.651	0.96	7574942	0.16	200000	
Ca	43	2	He	26848.812	26848.812	1.08	46231	58.08	200000	
Ca	44	2	He	26798.767	26798.767	0.55	772379	3.47	200000	
V	51	2	He	85.610	85.610	1.00	305616	0.03	2000	
Cr	52	2	He	208.069	208.069	0.84	834856	0.02	2000	
Mn	55	2	He	223.610	223.610	1.03	688657	0.03	2000	
Fe	56	2	He	11246.509	11246.509	0.95	41032570	0.03	200000	
Co	59	2	He	92.187	92.187	0.29	472734	0.02	2000	
Ni	60	2	He	227.266	227.266	0.79	286164	0.08	2000	
Cu	63	2	He	96.218	96.218	0.39	305096	0.03	2000	
Zn	66	2	He	101.494	101.494	2.01	70044	0.14	2000	
As	75	2	He	91.389	91.389	1.51	47346	0.19	2000	
Sb	121	2	He	89.530	89.530	1.14	283004	0.03	2000	
Se	78	2	He	91.810	91.810	1.31	4962	1.85	2000	
Ti	47	2	He	93.500	93.500	4.55	14611	0.64	200	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1329886	0.46	1411661	94.21	70	120	
In	115	1	nogas	1607181	0.84	1676050	95.89	70	120	
Li	6	1	nogas	588195	0.62	699034	84.14	70	120	
Bi	209	1	nogas	1581779	4.35	1624905	97.35	70	120	

Sample Report

Ge	72	2	He	402690	0.64	431445	93.34	70	120	
In	115	2	He	633914	0.82	682631	92.86	70	120	

Sample Report

Sample Table

Sample Name	HS24060293-04
Data File Name	059SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T13:38:47-05:00
Sample Type	Sample
Dilution	1
Comment	TWDOD 213517
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Fail

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	1	nogas	0.105	0.105	12.07	283	0.04	2000	
B	11	1	nogas	136.102	136.102	1.54	203450	0.07	2000	
Al	27	1	nogas	34.210	34.210	1.20	314247	0.01	2000	
Ti	47	1	nogas	1.407	1.407	6.02	1307	0.11	2000	
Ni	60	1	nogas	8.712	8.712	2.18	20801	0.04	2000	
Cu	63	1	nogas	7.384	7.384	9.37	46978	0.02	2000	
Zn	66	1	nogas	17.762	17.762	1.91	30288	0.06	2000	
Se	77	1	nogas	-2.938	-2.938	-112.06	7365	-0.04	2000	
Se	82	1	nogas	2.210	2.210	30.92	490	0.45	2000	
Sr	88	1	nogas	602.285	602.285	0.66	8802228	0.01	2000	
Mo	95	1	nogas	3.153	3.153	2.53	10357	0.03	2000	
Ag	107	1	nogas	0.174	0.174	12.99	1480	0.01	2000	
Cd	111	1	nogas	0.136	0.136	23.52	221	0.06	2000	
Sn	118	1	nogas	1.347	1.347	7.60	8473	0.02	2000	
Sb	121	1	nogas	3.260	3.260	12.52	24101	0.01	2000	
Ba	137	1	nogas	204.158	204.158	1.19	498029	0.04	2000	
Tl	205	1	nogas	0.141	0.141	14.22	2630	0.01	2000	
Pb	208	1	nogas	0.204	0.204	6.21	7081	0.00	2000	
U	238	1	nogas	0.020	0.020	13.38	1080	0.00	2000	
Na	23	2	He	267221.845	267221.845	1.07	257548063	0.10	200000	>LDR
Mg	24	2	He	14651.589	14651.589	1.11	8001246	0.18	200000	
Al	27	2	He	34.306	34.306	1.74	12572	0.27	2000	
K	39	2	He	223427.798	223427.798	1.15	126805035	0.18	200000	>LDR
Ca	43	2	He	31331.419	31331.419	2.49	50113	62.52	200000	
Ca	44	2	He	30746.792	30746.792	0.50	823057	3.74	200000	
V	51	2	He	0.579	0.579	42.45	2286	0.03	2000	
Cr	52	2	He	6.287	6.287	2.08	29700	0.02	2000	
Mn	55	2	He	226.251	226.251	0.40	647219	0.03	2000	
Fe	56	2	He	5711.885	5711.885	0.92	19363659	0.03	200000	
Co	59	2	He	2.138	2.138	3.26	10334	0.02	2000	
Ni	60	2	He	7.890	7.890	3.47	9363	0.08	2000	
Cu	63	2	He	0.843	0.843	12.32	3004	0.03	2000	
Zn	66	2	He	17.698	17.698	4.13	12122	0.15	2000	
As	75	2	He	2.689	2.689	6.65	1510	0.18	2000	
Sb	121	2	He	2.237	2.237	1.24	7549	0.03	2000	
Se	78	2	He	0.966	0.966	84.01	92	1.05	2000	
Ti	47	2	He	0.679	0.679	37.28	110	0.62	200	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1231468	0.74	1411661	87.24	70	120	
In	115	1	nogas	1475930	0.58	1676050	88.06	70	120	
Li	6	1	nogas	459897	0.46	699034	65.79	70	120	ISTD Failed
Bi	209	1	nogas	1462210	4.96	1624905	89.99	70	120	
Ge	72	2	He	374071	0.67	431445	86.70	70	120	
In	115	2	He	588076	0.61	682631	86.15	70	120	

Sample Report

Sample Table

Sample Name	HS24060293-05
Data File Name	060SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T13:40:51-05:00
Sample Type	Sample
Dilution	1
Comment	TWDOD 213517
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	1	nogas	0.078	0.078	22.57	270	0.03	2000	
B	11	1	nogas	1292.703	1292.703	0.78	2241835	0.06	2000	
Al	27	1	nogas	50.826	50.826	1.17	459561	0.01	2000	
Ti	47	1	nogas	2.800	2.800	5.20	2500	0.11	2000	
Ni	60	1	nogas	2.285	2.285	2.68	5931	0.04	2000	
Cu	63	1	nogas	6.721	6.721	4.64	44299	0.02	2000	
Zn	66	1	nogas	6.915	6.915	2.61	13466	0.05	2000	
Se	77	1	nogas	16.123	16.123	29.72	9000	0.18	2000	
Se	82	1	nogas	0.911	0.911	73.36	373	0.24	2000	
Sr	88	1	nogas	587.278	587.278	1.54	8736543	0.01	2000	
Mo	95	1	nogas	1.092	1.092	5.23	3864	0.03	2000	
Ag	107	1	nogas	0.085	0.085	15.17	807	0.01	2000	
Cd	111	1	nogas	0.446	0.446	17.96	696	0.06	2000	
Sn	118	1	nogas	0.596	0.596	2.56	4921	0.01	2000	
Sb	121	1	nogas	0.719	0.719	10.49	7545	0.01	2000	
Ba	137	1	nogas	111.081	111.081	2.66	275955	0.04	2000	
Tl	205	1	nogas	0.021	0.021	26.36	733	0.00	2000	
Pb	208	1	nogas	0.294	0.294	2.84	9258	0.00	2000	
U	238	1	nogas	0.060	0.060	24.89	2154	0.00	2000	
Na	23	2	He	284106.040	284106.040	0.73	284339629	0.10	200000	>LDR
Mg	24	2	He	6667.527	6667.527	1.39	3781291	0.18	200000	
Al	27	2	He	50.632	50.632	0.51	18588	0.27	2000	
K	39	2	He	2666.537	2666.537	0.89	1649887	0.16	200000	
Ca	43	2	He	12836.062	12836.062	2.10	21345	60.14	200000	
Ca	44	2	He	12514.761	12514.761	0.74	348300	3.59	200000	
V	51	2	He	0.028	0.028	1220.79	471	0.01	2000	
Cr	52	2	He	0.921	0.921	3.18	10247	0.01	2000	
Mn	55	2	He	65.558	65.558	0.85	195545	0.03	2000	
Fe	56	2	He	3374.054	3374.054	0.84	11882806	0.03	200000	
Co	59	2	He	0.286	0.286	12.06	1570	0.02	2000	
Ni	60	2	He	1.834	1.834	6.15	2370	0.08	2000	
Cu	63	2	He	0.731	0.731	3.04	2777	0.03	2000	
Zn	66	2	He	6.668	6.668	7.20	5354	0.12	2000	
As	75	2	He	4.832	4.832	5.77	2634	0.18	2000	
Sb	121	2	He	0.702	0.702	2.58	3177	0.02	2000	
Se	78	2	He	0.369	0.369	71.18	65	0.57	2000	
Ti	47	2	He	1.909	1.909	36.33	300	0.64	200	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1259385	1.25	1411661	89.21	70	120	
In	115	1	nogas	1502381	0.31	1676050	89.64	70	120	
Li	6	1	nogas	561210	0.72	699034	80.28	70	120	
Bi	209	1	nogas	1496010	3.65	1624905	92.07	70	120	
Ge	72	2	He	388442	0.65	431445	90.03	70	120	
In	115	2	He	606821	1.11	682631	88.89	70	120	

Sample Report

Sample Table

Sample Name	HS24060293-06
Data File Name	061SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T13:42:56-05:00
Sample Type	Sample
Dilution	1
Comment	TWDOD 213517
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	1	nogas	0.179	0.179	9.60	618	0.03	2000	
B	11	1	nogas	48.562	48.562	9.54	108547	0.04	2000	
Al	27	1	nogas	186.034	186.034	1.52	1693555	0.01	2000	
Ti	47	1	nogas	1.928	1.928	10.77	1893	0.10	2000	
Ni	60	1	nogas	1.527	1.527	8.78	4404	0.03	2000	
Cu	63	1	nogas	2.449	2.449	7.90	21476	0.01	2000	
Zn	66	1	nogas	10.583	10.583	2.01	20725	0.05	2000	
Se	77	1	nogas	40.006	40.006	5.34	11585	0.35	2000	
Se	82	1	nogas	-0.999	-0.999	-37.69	197	-0.51	2000	
Sr	88	1	nogas	12.830	12.830	1.29	211840	0.01	2000	
Mo	95	1	nogas	0.194	0.194	6.01	1053	0.02	2000	
Ag	107	1	nogas	0.126	0.126	16.43	1243	0.01	2000	
Cd	111	1	nogas	0.050	0.050	25.32	106	0.05	2000	
Sn	118	1	nogas	0.429	0.429	10.15	4521	0.01	2000	
Sb	121	1	nogas	0.252	0.252	21.64	4708	0.01	2000	
Ba	137	1	nogas	24.906	24.906	0.74	68497	0.04	2000	
Tl	205	1	nogas	0.015	0.015	9.63	727	0.00	2000	
Pb	208	1	nogas	0.206	0.206	7.25	8244	0.00	2000	
U	238	1	nogas	0.184	0.184	7.54	6168	0.00	2000	
Na	23	2	He	15888.108	15888.108	0.79	16982837	0.09	200000	
Mg	24	2	He	377.687	377.687	0.84	228549	0.17	200000	
Al	27	2	He	186.635	186.635	0.39	68894	0.27	2000	
K	39	2	He	122.501	122.501	1.78	161321	0.08	200000	
Ca	43	2	He	523.575	523.575	11.39	973	53.79	200000	
Ca	44	2	He	545.595	545.595	1.53	16906	3.23	200000	
V	51	2	He	-0.476	-0.476	-47.58	-1337	0.04	2000	
Cr	52	2	He	0.609	0.609	10.83	9637	0.01	2000	
Mn	55	2	He	21.175	21.175	1.79	68083	0.03	2000	
Fe	56	2	He	240.775	240.775	0.39	915258	0.03	200000	
Co	59	2	He	1.934	1.934	1.41	10350	0.02	2000	
Ni	60	2	He	1.400	1.400	2.71	1964	0.07	2000	
Cu	63	2	He	1.180	1.180	3.54	4417	0.03	2000	
Zn	66	2	He	10.875	10.875	4.33	8639	0.13	2000	
As	75	2	He	0.576	0.576	22.96	551	0.10	2000	
Sb	121	2	He	0.337	0.337	2.90	2204	0.02	2000	
Se	78	2	He	0.232	0.232	7.79	61	0.38	2000	
Ti	47	2	He	1.500	1.500	17.04	253	0.59	200	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1346277	1.00	1411661	95.37	70	120	
In	115	1	nogas	1657085	0.52	1676050	98.87	70	120	
Li	6	1	nogas	625378	0.55	699034	89.46	70	120	
Bi	209	1	nogas	1690169	5.17	1624905	104.02	70	120	

Sample Report

Ge	72	2	He	413694	0.53	431445	95.89	70	120	
In	115	2	He	658855	1.08	682631	96.52	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	064_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T13:49:13-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	1	nogas	92.814	1.848	278154	0.83	100	92.8	90	110	
B	11	1	nogas	472.310	2.273	878509	1.15	500	94.5	90	110	
Al	27	1	nogas	93.046	0.676	873724	0.53	100	93.0	90	110	
P	31	1	nogas	178.801	21.037	71965	2.02	500	35.8	90	110	CCV Main CR1-2 Failed
Ti	47	1	nogas	97.633	2.435	88108	1.73	100	97.6	90	110	
Ni	60	1	nogas	97.362	1.447	250997	1.11	100	97.4	90	110	
Cu	63	1	nogas	98.061	1.959	605324	1.45	100	98.1	90	110	
Zn	66	1	nogas	96.849	2.320	170946	1.84	100	96.8	90	110	
Se	77	1	nogas	119.936	5.073	18305	2.38	100	119.9	90	110	CCV Main CR1-2 Failed
Se	82	1	nogas	101.563	2.719	11138	2.35	100	101.6	90	110	
Sr	88	1	nogas	98.283	2.879	1595070	1.24	100	98.3	90	110	
Mo	95	1	nogas	96.289	2.293	340561	0.61	100	96.3	90	110	
Ag	107	1	nogas	97.483	2.863	838098	1.20	100	97.5	90	110	
Cd	111	1	nogas	96.939	1.995	159817	1.07	100	96.9	90	110	
Sn	118	1	nogas	96.749	3.290	522157	1.63	100	96.7	90	110	
Sb	121	1	nogas	98.968	2.638	720472	1.91	100	99.0	90	110	
Ba	137	1	nogas	97.654	3.158	264514	1.55	100	97.7	90	110	
Tl	205	1	nogas	97.739	7.366	1761517	1.49	100	97.7	90	110	
Pb	208	1	nogas	97.741	7.799	2436112	1.88	100	97.7	90	110	
U	238	1	nogas	94.458	8.824	2797529	2.94	100	94.5	90	110	
Li	7	1	nogas	93.817	1.149	934710	0.19	100	93.8	90	110	
Ba	135	1	nogas	98.062	3.218	152315	1.62	100	98.1	90	110	
Tl	203	1	nogas	98.066	7.049	732293	1.20	100	98.1	90	110	
Na	23	2	He	10553.109	0.875	10917602	1.21	10000	105.5	90	110	
Mg	24	2	He	10486.487	1.583	6120222	0.92	10000	104.9	90	110	
Al	27	2	He	94.252	2.060	34345	1.33	100	94.3	90	110	
K	39	2	He	10615.897	1.545	6516699	1.17	10000	106.2	90	110	
Ca	43	2	He	9412.427	4.566	16119	4.33	10000	94.1	90	110	
Ca	44	2	He	9663.921	1.445	276980	1.46	10000	96.6	90	110	
V	51	2	He	97.259	1.875	344660	2.31	100	97.3	90	110	
Cr	52	2	He	98.541	0.774	396175	1.36	100	98.5	90	110	
Mn	55	2	He	98.835	0.982	302831	1.48	100	98.8	90	110	
Fe	56	2	He	10933.799	0.730	39603112	1.23	10000	109.3	90	110	
Co	59	2	He	99.885	1.190	508515	1.70	100	99.9	90	110	
Ni	60	2	He	100.219	2.974	125376	3.45	100	100.2	90	110	
Cu	63	2	He	100.073	0.129	315005	0.58	100	100.1	90	110	
Zn	66	2	He	99.463	1.664	68168	2.22	100	99.5	90	110	
As	75	2	He	97.473	0.543	50116	1.01	100	97.5	90	110	
Sb	121	2	He	99.470	1.489	312047	1.74	100	99.5	90	110	
Se	78	2	He	99.519	2.581	5336	3.20	100	99.5	90	110	
Ti	47	2	He	98.516	4.837	15285	5.23	100	98.5	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1357129	0.71	1411661	96.14	70	120	
In	115	1	nogas	1638397	1.70	1676050	97.75	70	120	
Li	6	1	nogas	595709	1.13	699034	85.22	70	120	
Bi	209	1	nogas	1671926	6.15	1624905	102.89	70	120	
Ge	72	2	He	399777	0.66	431445	92.66	70	120	
In	115	2	He	637495	0.89	682631	93.39	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	065_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T13:51:18-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	1	nogas	0.081	10.1	305	8.7	2.5	
B	11	1	nogas	23.482	10.7	59141	8.4	2.5	CCB Main CR1 Failed
Al	27	1	nogas	-3.026	-2.3	12362	4.6	5	
P	31	1	nogas	-803.775	-1.5	45107	1.0	2.5	
Ti	47	1	nogas	0.063	101.8	227	25.1	2.5	
Ni	60	1	nogas	0.036	97.6	597	14.3	2.5	
Cu	63	1	nogas	1.037	5.5	12862	2.2	5	
Zn	66	1	nogas	-0.451	-19.8	1673	8.5	2.5	
Se	77	1	nogas	-39.361	-11.5	5031	8.0	2.5	
Se	82	1	nogas	-0.449	-116.5	253	21.7	5	
Sr	88	1	nogas	-0.005	-408.6	1263	26.5	2.5	
Mo	95	1	nogas	0.623	18.7	2567	17.8	2.5	
Ag	107	1	nogas	0.039	32.1	483	24.2	2.5	
Cd	111	1	nogas	0.044	70.3	95	52.9	2.5	
Sn	118	1	nogas	0.413	25.5	4401	14.3	2.5	
Sb	121	1	nogas	0.853	22.9	8990	15.6	2.5	
Ba	137	1	nogas	-0.044	-52.8	203	31.2	2.5	
Tl	205	1	nogas	0.268	38.3	5315	41.8	2.5	
Pb	208	1	nogas	-0.010	-188.0	2757	20.8	2.5	
U	238	1	nogas	0.049	40.8	2104	34.8	2.5	
Na	23	2	He	80.133	3.1	134162	2.1	100	
Mg	24	2	He	1.943	18.5	1603	12.8	100	
Al	27	2	He	-2.623	-3.8	563	6.2	5	
K	39	2	He	24.878	7.3	98664	1.4	100	
Ca	43	2	He	-13.726	-48.6	23	49.5	100	
Ca	44	2	He	-7.305	-47.1	543	18.8	100	
V	51	2	He	-0.309	-99.2	-721	-154.3	2.5	
Cr	52	2	He	-0.795	-10.1	3841	7.7	2.5	
Mn	55	2	He	-0.192	-32.3	593	33.0	2.5	
Fe	56	2	He	4.080	13.2	27976	7.3	100	
Co	59	2	He	-0.001	-331.3	157	16.1	2.5	
Ni	60	2	He	0.035	110.8	197	26.1	2.5	
Cu	63	2	He	0.036	70.7	690	12.4	5	
Zn	66	2	He	-0.538	-28.5	657	15.6	2.5	
As	75	2	He	0.021	50.4	253	2.6	2.5	
Sb	121	2	He	0.605	4.0	3027	2.0	2.5	
Se	78	2	He	0.616	41.2	81	17.4	5	
Ti	47	2	He	0.090	217.4	27	114.6	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1339745	0.62	1411661	94.91	70	120	
In	115	1	nogas	1642495	1.84	1676050	98.00	70	120	
Li	6	1	nogas	612687	0.41	699034	87.65	70	120	

Continuing Calibration Blank (CCB) Report

Bi	209	1	nogas	1658081	6.57	1624905	102.04	70	120	
Ge	72	2	He	407811	0.72	431445	94.52	70	120	
In	115	2	He	657144	0.27	682631	96.27	70	120	

Sample Report

Sample Table

Sample Name	HS24060293-04
Data File Name	074SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T14:10:01-05:00
Sample Type	Sample
Dilution	100
Comment	TWDOD 213517
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	1	nogas	0.003	0.262	391.27	63	0.00	2000	
B	11	1	nogas	2.946	294.577	14.86	20912	0.01	2000	
Al	27	1	nogas	-1.716	-171.614	-3.39	24657	-0.01	2000	
Ti	47	1	nogas	-0.043	-4.281	-51.59	137	-0.03	2000	
Ni	60	1	nogas	0.186	18.566	16.26	1007	0.02	2000	
Cu	63	1	nogas	1.101	110.106	3.90	13636	0.01	2000	
Zn	66	1	nogas	0.532	53.192	21.10	3460	0.02	2000	
Se	77	1	nogas	-16.830	-1683.010	-17.80	7075	-0.24	2000	
Se	82	1	nogas	-0.980	-97.956	-46.41	203	-0.48	2000	
Sr	88	1	nogas	5.614	561.363	2.91	95716	0.01	2000	
Mo	95	1	nogas	0.019	1.873	121.23	437	0.00	2000	
Ag	107	1	nogas	-0.004	-0.431	-94.62	113	0.00	2000	
Cd	111	1	nogas	-0.019	-1.853	-16.79	-8	0.22	2000	
Sn	118	1	nogas	-0.213	-21.341	-7.29	1053	-0.02	2000	
Sb	121	1	nogas	-0.267	-26.733	-3.93	997	-0.03	2000	
Ba	137	1	nogas	2.078	207.764	10.21	6155	0.03	2000	
Tl	205	1	nogas	-0.017	-1.722	-8.77	133	-0.01	2000	
Pb	208	1	nogas	-0.086	-8.617	-0.94	907	-0.01	2000	
U	238	1	nogas	-0.011	-1.131	-17.88	310	0.00	2000	
Na	23	2	He	2764.117	276411.739	4.24	3035624	0.09	200000	
Mg	24	2	He	144.853	14485.302	1.34	89070	0.16	200000	
Al	27	2	He	-0.923	-92.344	-85.24	1200	-0.08	2000	
K	39	2	He	2141.577	214157.681	1.14	1446293	0.15	200000	
Ca	43	2	He	306.139	30613.888	11.85	597	51.31	200000	
Ca	44	2	He	332.742	33274.213	4.37	10747	3.10	200000	
V	51	2	He	-0.990	-98.983	-64.81	-3272	0.03	2000	
Cr	52	2	He	-0.794	-79.381	-3.82	3954	-0.02	2000	
Mn	55	2	He	2.228	222.815	0.48	8352	0.03	2000	
Fe	56	2	He	55.154	5515.433	1.04	222583	0.02	200000	
Co	59	2	He	0.006	0.596	139.64	200	0.00	2000	
Ni	60	2	He	0.166	16.645	10.97	373	0.04	2000	
Cu	63	2	He	-0.009	-0.894	-432.81	560	0.00	2000	
Zn	66	2	He	0.472	47.249	25.26	1390	0.03	2000	
As	75	2	He	-0.088	-8.754	-80.61	202	-0.04	2000	
Sb	121	2	He	-0.197	-19.735	-6.60	480	-0.04	2000	
Se	78	2	He	0.133	13.289	296.98	57	0.23	2000	
Ti	47	2	He	-0.039	-3.863	-92.24	7	-0.58	200	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1379079	0.62	1411661	97.69	70	120	
In	115	1	nogas	1697822	1.61	1676050	101.30	70	120	
Li	6	1	nogas	625345	0.79	699034	89.46	70	120	
Bi	209	1	nogas	1750481	6.56	1624905	107.73	70	120	

Sample Report

Ge	72	2	He	419037	0.47	431445	97.12	70	120	
In	115	2	He	674978	1.08	682631	98.88	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	076_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T14:14:14-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	1	nogas	90.966	0.598	264606	0.16	100	91.0	90	110	
B	11	1	nogas	454.185	1.778	820500	1.04	500	90.8	90	110	
Al	27	1	nogas	92.739	1.115	839540	0.96	100	92.7	90	110	
P	31	1	nogas	185.714	23.046	69541	1.45	500	37.1	90	110	CCV Main CR1-2 Failed
Ti	47	1	nogas	97.787	1.359	85071	1.50	100	97.8	90	110	
Ni	60	1	nogas	96.686	1.540	240278	1.80	100	96.7	90	110	
Cu	63	1	nogas	98.087	0.703	583674	0.89	100	98.1	90	110	
Zn	66	1	nogas	97.539	2.833	165948	2.83	100	97.5	90	110	
Se	77	1	nogas	128.184	4.226	18305	2.32	100	128.2	90	110	CCV Main CR1-2 Failed
Se	82	1	nogas	96.057	1.473	10170	1.62	100	96.1	90	110	
Sr	88	1	nogas	96.747	2.015	1547771	1.14	100	96.7	90	110	
Mo	95	1	nogas	93.869	2.643	327244	1.78	100	93.9	90	110	
Ag	107	1	nogas	95.671	2.373	810772	1.50	100	95.7	90	110	
Cd	111	1	nogas	96.232	2.530	156364	1.70	100	96.2	90	110	
Sn	118	1	nogas	96.816	2.559	515077	1.68	100	96.8	90	110	
Sb	121	1	nogas	101.199	1.505	710149	1.57	100	101.2	90	110	
Ba	137	1	nogas	98.177	2.733	262134	1.86	100	98.2	90	110	
Tl	205	1	nogas	97.281	7.951	1755029	2.71	100	97.3	90	110	
Pb	208	1	nogas	97.099	7.117	2423735	1.85	100	97.1	90	110	
U	238	1	nogas	93.392	7.555	2770794	2.32	100	93.4	90	110	
Li	7	1	nogas	91.444	0.744	885367	0.06	100	91.4	90	110	
Ba	135	1	nogas	96.943	4.229	148418	3.40	100	96.9	90	110	
Tl	203	1	nogas	97.663	7.474	730047	2.27	100	97.7	90	110	
Na	23	2	He	10313.005	0.877	10486306	1.43	10000	103.1	90	110	
Mg	24	2	He	10347.095	2.555	5933994	1.29	10000	103.5	90	110	
Al	27	2	He	94.073	0.971	33701	2.71	100	94.1	90	110	
K	39	2	He	10300.681	1.326	6216485	1.03	10000	103.0	90	110	
Ca	43	2	He	9244.154	4.025	15562	4.56	10000	92.4	90	110	
Ca	44	2	He	9564.754	1.054	269460	2.55	10000	95.6	90	110	
V	51	2	He	94.953	1.676	330642	0.67	100	95.0	90	110	
Cr	52	2	He	96.643	1.241	381937	0.60	100	96.6	90	110	
Mn	55	2	He	98.194	2.198	295633	1.16	100	98.2	90	110	
Fe	56	2	He	10772.734	1.105	38344093	0.70	10000	107.7	90	110	
Co	59	2	He	98.287	1.476	491686	0.35	100	98.3	90	110	
Ni	60	2	He	98.552	0.220	121162	1.59	100	98.6	90	110	
Cu	63	2	He	100.029	0.917	309429	0.91	100	100.0	90	110	
Zn	66	2	He	96.999	0.322	65356	1.52	100	97.0	90	110	
As	75	2	He	95.357	1.815	48181	0.42	100	95.4	90	110	
Sb	121	2	He	99.476	1.017	306666	0.82	100	99.5	90	110	
Se	78	2	He	98.398	2.139	5184	0.60	100	98.4	90	110	
Ti	47	2	He	96.824	2.231	14761	2.07	100	96.8	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1308142	0.30	1411661	92.67	70	120	
In	115	1	nogas	1614701	0.88	1676050	96.34	70	120	
Li	6	1	nogas	578147	0.73	699034	82.71	70	120	
Bi	209	1	nogas	1673413	5.48	1624905	102.99	70	120	
Ge	72	2	He	392912	1.79	431445	91.07	70	120	
In	115	2	He	628280	1.40	682631	92.04	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	077_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T14:16:19-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	1	nogas	0.067	39.1	255	31.6	2.5	
B	11	1	nogas	13.278	16.9	38842	11.1	2.5	CCB Main CR1 Failed
Al	27	1	nogas	-3.026	-1.0	12055	3.1	5	
P	31	1	nogas	-812.085	-5.2	43763	1.7	2.5	
Ti	47	1	nogas	0.092	76.4	247	25.7	2.5	
Ni	60	1	nogas	0.054	41.1	627	7.9	2.5	
Cu	63	1	nogas	1.013	13.5	12399	6.5	5	
Zn	66	1	nogas	-0.467	-19.0	1607	10.1	2.5	
Se	77	1	nogas	-35.130	-5.5	5241	2.2	2.5	
Se	82	1	nogas	-0.491	-186.5	243	39.5	5	
Sr	88	1	nogas	-0.009	-211.5	1173	25.8	2.5	
Mo	95	1	nogas	0.515	33.0	2147	28.9	2.5	
Ag	107	1	nogas	0.026	28.9	363	18.7	2.5	
Cd	111	1	nogas	0.023	118.1	59	73.6	2.5	
Sn	118	1	nogas	0.410	24.5	4304	13.2	2.5	
Sb	121	1	nogas	0.791	24.4	8339	17.0	2.5	
Ba	137	1	nogas	-0.027	-43.4	247	13.0	2.5	
Tl	205	1	nogas	0.272	38.0	5408	40.8	2.5	
Pb	208	1	nogas	-0.029	-73.0	2310	28.4	2.5	
U	238	1	nogas	0.054	48.6	2247	39.7	2.5	
Na	23	2	He	48.895	1.9	98412	1.7	100	
Mg	24	2	He	1.594	10.1	1357	7.8	100	
Al	27	2	He	-2.885	-0.5	457	1.3	5	
K	39	2	He	19.677	4.7	92684	1.3	100	
Ca	43	2	He	-17.299	-19.5	17	34.6	100	
Ca	44	2	He	-9.240	-44.3	473	25.6	100	
V	51	2	He	-0.319	-55.0	-734	-84.1	2.5	
Cr	52	2	He	-0.870	-3.9	3440	4.1	2.5	
Mn	55	2	He	-0.183	-19.1	603	16.6	2.5	
Fe	56	2	He	4.099	13.4	27242	8.1	100	
Co	59	2	He	-0.010	-93.4	110	41.7	2.5	
Ni	60	2	He	0.048	124.5	207	35.7	2.5	
Cu	63	2	He	0.038	69.2	677	13.2	5	
Zn	66	2	He	-0.649	-33.6	563	25.7	2.5	
As	75	2	He	-0.042	-245.2	214	24.7	2.5	
Sb	121	2	He	0.411	10.7	2337	6.8	2.5	
Se	78	2	He	0.584	46.6	77	19.4	5	
Ti	47	2	He	0.072	53.2	23	24.7	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1306359	0.94	1411661	92.54	70	120	
In	115	1	nogas	1612736	1.26	1676050	96.22	70	120	
Li	6	1	nogas	595797	0.54	699034	85.23	70	120	

Continuing Calibration Blank (CCB) Report

Bi	209	1	nogas	1667349	5.45	1624905	102.61	70	120	
Ge	72	2	He	396002	0.97	431445	91.78	70	120	
In	115	2	He	632451	0.04	682631	92.65	70	120	

Sample Report

Sample Table

Sample Name	HS24060293-05
Data File Name	078SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T14:18:26-05:00
Sample Type	Sample
Dilution	100
Comment	TWDOD 213517
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	1	nogas	0.025	2.522	32.06	130	0.02	2000	
B	11	1	nogas	16.230	1623.014	1.35	44835	0.04	2000	
Al	27	1	nogas	-1.410	-140.956	-8.39	26153	-0.01	2000	
Ti	47	1	nogas	-0.035	-3.518	-133.42	137	-0.03	2000	
Ni	60	1	nogas	0.016	1.624	43.03	537	0.00	2000	
Cu	63	1	nogas	0.863	86.340	10.95	11585	0.01	2000	
Zn	66	1	nogas	0.092	9.220	111.53	2557	0.00	2000	
Se	77	1	nogas	-28.283	-2828.260	-5.31	5821	-0.49	2000	
Se	82	1	nogas	-0.562	-56.226	-96.26	237	-0.24	2000	
Sr	88	1	nogas	5.268	526.762	3.52	86439	0.01	2000	
Mo	95	1	nogas	0.078	7.753	19.57	627	0.01	2000	
Ag	107	1	nogas	0.001	0.085	647.66	153	0.00	2000	
Cd	111	1	nogas	0.006	0.637	301.85	33	0.02	2000	
Sn	118	1	nogas	-0.054	-5.425	-51.80	1867	0.00	2000	
Sb	121	1	nogas	-0.053	-5.253	-28.78	2457	0.00	2000	
Ba	137	1	nogas	1.065	106.509	3.15	3194	0.03	2000	
Tl	205	1	nogas	0.016	1.643	29.60	747	0.00	2000	
Pb	208	1	nogas	-0.075	-7.511	-8.63	1150	-0.01	2000	
U	238	1	nogas	-0.004	-0.415	-6.65	517	0.00	2000	
Na	23	2	He	3067.283	306728.306	0.68	3207384	0.10	200000	
Mg	24	2	He	65.906	6590.576	0.51	38896	0.17	200000	
Al	27	2	He	-1.195	-119.523	-15.82	1050	-0.11	2000	
K	39	2	He	43.594	4359.422	4.49	108044	0.04	200000	
Ca	43	2	He	146.740	14673.989	34.87	297	49.46	200000	
Ca	44	2	He	138.566	13856.582	8.58	4701	2.95	200000	
V	51	2	He	-0.640	-64.029	-54.41	-1875	0.03	2000	
Cr	52	2	He	-0.838	-83.807	-6.12	3597	-0.02	2000	
Mn	55	2	He	0.431	43.115	14.63	2484	0.02	2000	
Fe	56	2	He	32.900	3289.983	1.01	131755	0.02	200000	
Co	59	2	He	-0.013	-1.320	-52.70	93	-0.01	2000	
Ni	60	2	He	0.020	2.006	178.42	173	0.01	2000	
Cu	63	2	He	-0.014	-1.441	-101.65	517	0.00	2000	
Zn	66	2	He	0.128	12.813	34.55	1093	0.01	2000	
As	75	2	He	-0.098	-9.750	-48.27	188	-0.05	2000	
Sb	121	2	He	0.002	0.173	680.86	1080	0.00	2000	
Se	78	2	He	0.271	27.054	111.02	61	0.44	2000	
Ti	47	2	He	0.028	2.809	480.16	17	0.17	200	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1313688	0.47	1411661	93.06	70	120	
In	115	1	nogas	1632535	1.49	1676050	97.40	70	120	
Li	6	1	nogas	603955	0.34	699034	86.40	70	120	
Bi	209	1	nogas	1693439	5.99	1624905	104.22	70	120	

Sample Report

Ge	72	2	He	399706	0.36	431445	92.64	70	120	
In	115	2	He	640620	1.00	682631	93.85	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	085_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T14:33:08-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	1	nogas	91.060	1.031	265921	0.51	100	91.1	90	110	
B	11	1	nogas	451.742	2.629	819320	1.62	500	90.3	90	110	
Al	27	1	nogas	91.830	0.912	837666	1.01	100	91.8	90	110	
P	31	1	nogas	117.372	29.217	68268	1.62	500	23.5	90	110	CCV Main CR1-2 Failed
Ti	47	1	nogas	96.204	1.200	84297	1.36	100	96.2	90	110	
Ni	60	1	nogas	95.750	0.708	239659	1.11	100	95.7	90	110	
Cu	63	1	nogas	97.246	1.801	582897	2.16	100	97.2	90	110	
Zn	66	1	nogas	97.302	2.037	166744	2.40	100	97.3	90	110	
Se	77	1	nogas	144.627	0.592	19760	0.37	100	144.6	90	110	CCV Main CR1-2 Failed
Se	82	1	nogas	96.482	3.099	10287	2.98	100	96.5	90	110	
Sr	88	1	nogas	97.097	2.012	1540844	1.00	100	97.1	90	110	
Mo	95	1	nogas	94.699	2.452	327472	1.44	100	94.7	90	110	
Ag	107	1	nogas	96.203	1.134	808769	0.20	100	96.2	90	110	
Cd	111	1	nogas	96.946	3.008	156250	2.16	100	96.9	90	110	
Sn	118	1	nogas	97.105	3.234	512422	2.36	100	97.1	90	110	
Sb	121	1	nogas	99.320	2.174	702054	2.56	100	99.3	90	110	
Ba	137	1	nogas	97.612	2.983	258519	2.03	100	97.6	90	110	
Tl	205	1	nogas	97.061	7.338	1753180	2.52	100	97.1	90	110	
Pb	208	1	nogas	96.322	6.583	2407166	1.73	100	96.3	90	110	
U	238	1	nogas	93.386	7.185	2773711	2.36	100	93.4	90	110	
Li	7	1	nogas	91.293	1.269	887436	0.04	100	91.3	90	110	
Ba	135	1	nogas	97.782	4.357	148489	3.38	100	97.8	90	110	
Tl	203	1	nogas	97.069	6.474	726567	1.67	100	97.1	90	110	
Na	23	2	He	10191.133	0.288	10413152	0.56	10000	101.9	90	110	
Mg	24	2	He	10287.392	0.830	5929446	0.68	10000	102.9	90	110	
Al	27	2	He	91.872	1.891	33103	2.51	100	91.9	90	110	
K	39	2	He	10401.330	1.348	6306988	0.88	10000	104.0	90	110	
Ca	43	2	He	9381.725	1.387	15869	2.15	10000	93.8	90	110	
Ca	44	2	He	9468.352	1.465	268020	1.97	10000	94.7	90	110	
V	51	2	He	95.144	1.162	332939	0.64	100	95.1	90	110	
Cr	52	2	He	96.326	1.817	382554	1.05	100	96.3	90	110	
Mn	55	2	He	97.071	0.346	293730	0.82	100	97.1	90	110	
Fe	56	2	He	10704.141	0.880	38286238	0.56	10000	107.0	90	110	
Co	59	2	He	97.101	1.125	488193	1.85	100	97.1	90	110	
Ni	60	2	He	98.158	0.768	121256	0.19	100	98.2	90	110	
Cu	63	2	He	98.301	0.396	305577	0.58	100	98.3	90	110	
Zn	66	2	He	97.097	1.784	65741	2.33	100	97.1	90	110	
As	75	2	He	96.809	0.451	49155	0.86	100	96.8	90	110	
Sb	121	2	He	97.550	1.024	302209	0.30	100	97.5	90	110	
Se	78	2	He	95.989	1.487	5084	2.09	100	96.0	90	110	
Ti	47	2	He	94.132	1.301	14420	0.56	100	94.1	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1317522	0.40	1411661	93.33	70	120	
In	115	1	nogas	1601707	1.02	1676050	95.56	70	120	
Li	6	1	nogas	580442	1.18	699034	83.03	70	120	
Bi	209	1	nogas	1674705	5.04	1624905	103.06	70	120	
Ge	72	2	He	394794	0.77	431445	91.50	70	120	
In	115	2	He	620598	0.77	682631	90.91	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	086_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T14:35:12-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	1	nogas	0.056	17.6	220	13.6	2.5	
B	11	1	nogas	12.042	18.4	36545	11.5	2.5	CCB Main CR1 Failed
Al	27	1	nogas	-3.021	-2.4	12126	5.3	5	
P	31	1	nogas	-845.739	-1.0	42991	0.2	2.5	
Ti	47	1	nogas	0.096	52.9	250	17.4	2.5	
Ni	60	1	nogas	0.030	88.8	570	12.2	2.5	
Cu	63	1	nogas	0.823	14.1	11308	5.6	5	
Zn	66	1	nogas	-0.408	-45.3	1707	18.0	2.5	
Se	77	1	nogas	-26.098	-9.2	5975	2.7	2.5	
Se	82	1	nogas	-0.264	-87.8	267	9.4	5	
Sr	88	1	nogas	-0.016	-112.4	1067	29.4	2.5	
Mo	95	1	nogas	0.545	25.2	2277	23.0	2.5	
Ag	107	1	nogas	0.025	14.3	363	8.4	2.5	
Cd	111	1	nogas	0.005	531.9	30	135.0	2.5	
Sn	118	1	nogas	0.437	31.0	4501	17.7	2.5	
Sb	121	1	nogas	0.762	25.3	8149	16.8	2.5	
Ba	137	1	nogas	-0.029	-60.8	243	21.1	2.5	
Tl	205	1	nogas	0.272	39.2	5365	42.4	2.5	
Pb	208	1	nogas	-0.027	-79.8	2327	28.2	2.5	
U	238	1	nogas	0.049	50.2	2084	39.9	2.5	
Na	23	2	He	26.541	4.9	76412	2.1	100	
Mg	24	2	He	1.786	18.7	1483	13.8	100	
Al	27	2	He	-2.660	-3.5	540	6.7	5	
K	39	2	He	13.284	12.8	89793	1.5	100	
Ca	43	2	He	-13.478	-25.8	23	24.7	100	
Ca	44	2	He	-6.603	-27.3	553	10.0	100	
V	51	2	He	-0.608	-9.6	-1764	-12.2	2.5	
Cr	52	2	He	-0.788	-8.6	3801	6.9	2.5	
Mn	55	2	He	-0.192	-5.0	583	5.5	2.5	
Fe	56	2	He	3.378	11.5	24911	6.1	100	
Co	59	2	He	0.003	149.0	177	13.1	2.5	
Ni	60	2	He	0.009	9.2	160	0.0	2.5	
Cu	63	2	He	0.009	476.9	590	22.2	5	
Zn	66	2	He	-0.639	-10.5	577	8.2	2.5	
As	75	2	He	0.002	2109.2	239	7.7	2.5	
Sb	121	2	He	0.424	14.6	2404	8.6	2.5	
Se	78	2	He	0.532	30.3	75	12.0	5	
Ti	47	2	He	0.028	354.0	17	91.7	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1309060	0.49	1411661	92.73	70	120	
In	115	1	nogas	1632015	1.54	1676050	97.37	70	120	
Li	6	1	nogas	595330	0.70	699034	85.16	70	120	

Continuing Calibration Blank (CCB) Report

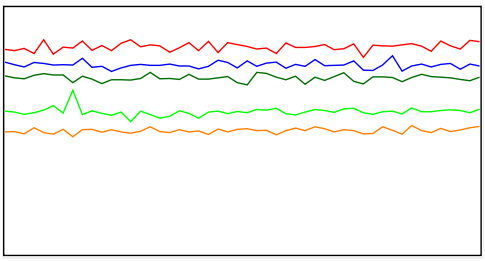
Bi	209	1	nogas	1650321	6.40	1624905	101.56	70	120	
Ge	72	2	He	400222	0.66	431445	92.76	70	120	
In	115	2	He	642499	0.90	682631	94.12	70	120	

Tune Check Report

Operator Name	ALSHS NoUser
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq. Date-Time	6/19/2024 10:56:46 AM
Report Comment	---
Instrument Name	G3281A JP11080910

[nogas]

Sensitivity



Sampling Period [sec]	0.514
Integration Time [sec]	0.1

Mass	Range	Count	Resp [cps/ug/l]	Resp (Required) [cps/ug/l]	Resp (Flag)
9	5000	4207	42073.01		
24	20000	11558	115580.98		
59	20000	15350	153495.53		
115	20000	10016	100155.31		
208	20000	14290	142896.95		

Mass	Resp Ratio	Resp Ratio (Required)	Resp Ratio (Flag)
9		-	
24		-	
59		-	
115		-	
208		-	

Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	1.949	5.000	
24	2.917	5.000	
59	1.645	5.000	
115	1.968	5.000	
208	1.743	5.000	

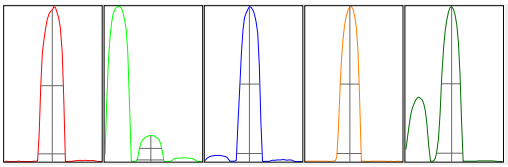
Mass	Background	Background (Required)	Background (Flag)
9	0.100		
24	0.400		
59	1.200		
115	1.300		
208	3.200		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 1.224 %
Doubly Charged	70 / 140 0.919 %

Tune Check Report

Resolution/Axis



Integration Time [sec]	0.1
Acquisition Time [sec]	37.4
Y Axis	Linear

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	4128.84	9.00	8.90 - 9.10	
24	11414.80	23.95	23.90 - 24.10	
59	15598.46	58.90	58.90 - 59.10	
115	10348.94	114.90	114.90 - 115.10	
208	14432.12	207.95	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.68	0.831		
24	0.68	0.824		
59	0.61	0.781		
115	0.58	0.738		
208	0.57	0.808		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.48 L/min	Dilution Gas	0.55 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	---
RF Matching	1.70 V	Nebulizer Pump	0.10 rps	Plasma Gas	---
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.1 V	Deflect	14.0 V
Extract 2	-190.0 V	Cell Entrance	-30 V	Plate Bias	-45 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	190 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9990	QP Bias	-3.0 V
Mass Offset	126	Axis Offset	0.07		

Hardware Settings

Torch

Torch H	0.5 mm	Torch V	-0.7 mm		

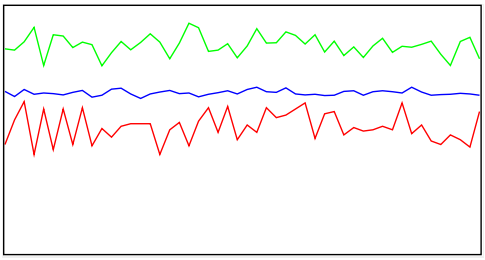
EM

Discriminator	4.5 mV	Analog HV	1717 V	Pulse HV	1511 V

[He]

Tune Check Report

Sensitivity



Sampling Period [sec]	0.306
Integration Time [sec]	0.1

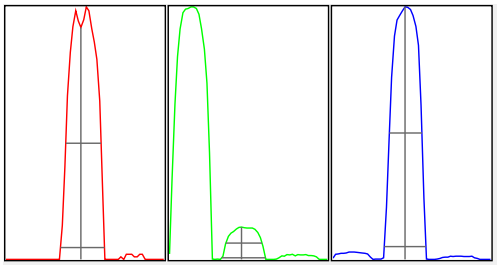
Mass	Range	Count	Resp [cps/ug/l]	Resp (Required) [cps/ug/l]	Resp (Flag)
9	200	102	1024.63		
24	1000	844	8441.89		
59	10000	6503	65029.02		

Mass	Resp Ratio	Resp Ratio (Required)	Resp Ratio (Flag)
9		-	
24		-	
59		-	

Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	11.584	5.000	Fail
24	4.720	5.000	
59	1.597	5.000	

Mass	Background	Background (Required)	Background (Flag)
9			
24			
59			

Resolution/Axis



Integration Time [sec]	0.1
Acquisition Time [sec]	22.24
Y Axis	Linear

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	90.76	8.95	8.90 - 9.10	
24	851.27	23.90	23.90 - 24.10	
59	6461.27	58.90	58.90 - 59.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.66	0.825		
24	0.68	0.816		
59	0.61	0.779		

Tune Parameters

Plasma Parameters

Tune Check Report

Plasma Mode	---	Nebulizer Gas	0.48 L/min	Dilution Gas	0.55 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	---
RF Matching	1.70 V	Nebulizer Pump	0.10 rps	Plasma Gas	---
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.0 V	Deflect	0.4 V
Extract 2	-190.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	190 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9990	QP Bias	-13.0 V
Mass Offset	126	Axis Offset	0.07		

Hardware Settings

Torch

Torch H	0.5 mm	Torch V	-0.7 mm		

EM

Discriminator	4.5 mV	Analog HV	1717 V	Pulse HV	1511 V

Prep Batch Report

Batch ID:	213707	**Init Sample Weight / Volume:**	10
Prep Code:	Hg_WPr	**Final Sample Volume:**	10
Start Date:	18 Jun 2024 09:00 AM	**Original Factor:**	1
End Date:	18 Jun 2024 12:00 PM	**Prep Unit Factor:**	1
Technician:	Jacob Salome	**Prep Unit:**	mL

Sample ID	Fraction	Matrix	pH	Initial Weight / Volume	Final Volume	Prep Factor	Spike Factor	Comments
HS24060293-04	C	Groundwater		10	10	1	1	
HS24060293-05	C	Groundwater		10	10	1	1	
HS24060293-06	C	Groundwater		10	10	1	1	
HS24060434-02	C	Groundwater		10	10	1	1	
HS24060434-03	C	Groundwater		10	10	1	1	
HS24060434-04	B	Groundwater		10	10	1	1	
HS24060434-05	B	Groundwater		10	10	1	1	
HS24060434-09	A	Groundwater		10	10	1	1	
HS24060434-09MS	A			10	10	1	1	
HS24060434-09MSD	A			10	10	1	1	
HS24060487-01	D	Water		10	10	1	1	
HS24060487-03	B	Water		10	10	1	1	
HS24060487-04	B	Water		10	10	1	1	
HS24060487-05	B	Water		10	10	1	1	
HS24060487-07	D	Water		10	10	1	1	
LCS-213707	A			10	10	1	1	
MBLK-213707	A			10	10	1	1	

Prep Batch Report

Batch ID:	213707	**Init Sample Weight / Volume:**	10
Prep Code:	Hg_WPr	**Final Sample Volume:**	10
Start Date:	18 Jun 2024 09:00 AM	**Original Factor:**	1
End Date:	18 Jun 2024 12:00 PM	**Prep Unit Factor:**	1
Technician:	Jacob Salome	**Prep Unit:**	mL

Stage	Description	Value
200.8PR	Dig. End Temp, C (U)	94
HG	Sample Tube	3111202316
Hg_W	Method for SOP HS-MET004 (7470A / EPA 245.1)	7470A / EPA 245.1
Hg_W	Cal Std ID	CalStd ID -061724
Hg_W	Cal 0.0 vol, mL	0
Hg_W	Cal 0.2 vol, mL	0.10
Hg_W	Cal 0.5 vol, mL	0.25
Hg_W	Cal 2.0 vol, mL	1
Hg_W	Cal 5.0 vol, mL	2.5
Hg_W	Cal 10.0 vol, mL	5
Hg_W	ICV Std vol, mL	0.25
Hg_W	ICB Std vol, mL	0
Hg_W	CCV Std vol, mL	2.5
Hg_W	CCB Std vol, mL	0
Hg_W	Digestion Cup ID	3111202516
Hg_W	Filter ID	N/A
Hg_W	Hotblock ID	HB 1
Hg_W	Thermometer ID	W21857
Hg_W	Thermometer Position	A9
Hg_W	LCS/MS ID:	02- SPK- 061324
Hg_W	LCS Volume, mL	0.5
Hg_W	MS Volume, mL	0.5
Hg_W	H2SO4 ID	311120201819
Hg_W	K2S2O8 ID	PER - 7/3/23
Hg_W	HNO3 ID	3111202304
Hg_W	5% KMnO4 ID	KMNO - 7/3/23
Hg_W	NaCl/Hydroxylamine ID	HYDRO - 7/3/23
Hg_W	Dig. Start Time	13:30PM
Hg_W	Dig. Start Temp, C (U)	94
Hg_W	Dig. Start Temp, C (C)	94
Hg_W	0.5 mL H2SO4 (Time)	YES
Hg_W	0.25 mL HNO3 (Time)	YES
Hg_W	Dig. End Time	15:30PM
Hg_W	1.5 mL 5% KMnO4 (Time)	YES
Hg_W	Dig. End Temp, C (C)	94

Prep Batch Report

Batch ID:	213707	**Init Sample Weight / Volume:**	10
Prep Code:	Hg_WPr	**Final Sample Volume:**	10
Start Date:	18 Jun 2024 09:00 AM	**Original Factor:**	1
End Date:	18 Jun 2024 12:00 PM	**Prep Unit Factor:**	1
Technician:	Jacob Salome	**Prep Unit:**	mL

Stage	Description	Value
Hg_W	0.6 mL NaCl/Hydrox. (Time)	YES
Hg_W	0.8 mL K2S2O8 (Time)	YES
Hg_W	0.5 mL 10% SnCl2 ID	SNCL - 5/16/24
Hg_W	ICCV Std vol, mL	2.5
Hg_W	CRA Std vol, mL	0.1
Hg_W	pH Paper:	30010709607
MET	Pipette #3	HG #12
MET	Pipette #1	ICP#12

Prep Batch Report

Batch ID:	213517	**Init Sample Weight / Volume:**	10
Prep Code:	3010A	**Final Sample Volume:**	10
Start Date:	13 Jun 2024 04:00 PM	**Original Factor:**	1
End Date:	13 Jun 2024 08:00 PM	**Prep Unit Factor:**	1
Technician:	Dominique Mitchel	**Prep Unit:**	mL

Sample ID	Fraction	Matrix	pH	Initial Weight / Volume	Final Volume	Prep Factor	Spike Factor	Comments
HS24060293-04	C	Groundwater	<2	10	10	1	1	DOD
HS24060293-05	C	Groundwater	<2	10	10	1	1	
HS24060293-06	C	Groundwater	<2	10	10	1	1	
HS24060434-02	C	Groundwater	<2	10	10	1	1	
HS24060434-03	C	Groundwater	<2	10	10	1	1	
HS24060434-04	B	Groundwater	<2	10	10	1	1	
HS24060434-05	B	Groundwater	<2	10	10	1	1	
HS24060434-09	A	Groundwater	<2	10	10	1	1	
HS24060434-09MS	A		<2	10	10	1	1	
HS24060434-09MSD	A		<2	10	10	1	1	
HS24060434-09PDS	A		<2	10	10	1	1	
HS24060434-09SD	A		<2	10	10	1	1	
HS24060487-01	D	Water	<2	10	10	1	1	
HS24060487-03	B	Water	<2	10	10	1	1	
HS24060487-04	B	Water	<2	10	10	1	1	
HS24060487-05	B	Water	<2	10	10	1	1	
HS24060487-07	D	Water	<2	10	10	1	1	
LCS-213517	A			10	10	1	1	
MBLK-213517	A			10	10	1	1	

Prep Batch Report

Batch ID:	213517	**Init Sample Weight / Volume:**	10
Prep Code:	3010A	**Final Sample Volume:**	10
Start Date:	13 Jun 2024 04:00 PM	**Original Factor:**	1
End Date:	13 Jun 2024 08:00 PM	**Prep Unit Factor:**	1
Technician:	Dominique Mitchel	**Prep Unit:**	mL

Stage	Description	Value
3010A	Hot Block ID	HB10
3010A	Thermometer ID	942333
3010A	Thermometer Location	F1
3010A	Dig. Cup ID	3111202609
3010A	FilterMate ID	NA
3010A	LCS/MS Spike ID	3111202611
3010A	LCS/MS Volume, mL	0.05
3010A	HNO3 ID	3111-202514
3010A	HCl ID	3111-202416
3010A	Method for HS-MET002 SOP (3010A)	Method SW3010A
3010A	Dig. Start Temp (U)	95
3010A	Dig. Start Temp (C)	95
3010A	Dig. End Temp (U)	95
3010A	Dig. End Temp (C)	95
3010A	pH Paper:	3111201820
MET	Pipette #3	ICP#10(0.05ML)
MET	Pipette #1	MP#11(10ML)/ICP#13 (1ML)

HS24060293 E2400650 Perch Level IV Report

ALS WO# HS24060293

June 13, 2024 Service Request No:E2400650

Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099

Laboratory Results for: Perchlorates

Dear Luis,

Enclosed are the results of the sample(s) submitted to our laboratory June 06, 2024
For your reference, these analyses have been assigned our service request number **E2400650.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current TNI standards, where applicable, and except as noted in the laboratory case narrative provided. All results are intended to be considered in their entirety and ALS Environmental is not responsible for use of less than the complete final report. Results apply only to the items submitted to the laboratory, as received for analysis. In accordance with the current TNI Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2190. You may also contact me via email at hussam.kelany@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

H Kelany

Hussam Kelany
Project Manager

ADDRESS 10450 Stancliff Rd., Suite 210, Houston, TX 77099
PHONE +1 281 530 5656 | FAX +1 281 530 5887
ALS Group USA, Corp.
dba ALS Environmental

Certificate of Analysis

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Client:	ALS Environmental - US	**Service Request No.:**	E2400650
Project:	Perchlorates	**Date Received:**	06/06/24
Sample Matrix:	Ground Water		

CASE NARRATIVE

All analyses were performed in adherence to the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Six samples were received for analysis at ALS Environmental in Houston on 06/06/24.

The samples were received in good condition and are consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2400303: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in addition to a MS/MSD for this extraction batch.

The batch precision (MS/DMS) measurements were determined on an unrelated sample in the extraction batch. The MS/DMS results are not included in this report.

MS/DMS (EQ2400303-04/EQ2400303-05) out of control due to matrix interference.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS group USA Corp dba ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

Client: ALS Environmental - US **Service Request:**E2400650
Project: Perchlorates

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2400650-001	MW5_060524	6/5/2024	0925
E2400650-002	18CPTMW08DW_060524	6/5/2024	1010
E2400650-003	18CPTMW08SW_060524	6/5/2024	1055
E2400650-004	18CPTMW035SW_060524	6/5/2024	1140
E2400650-005	18CPTMW022DW_060524	6/5/2024	1235
E2400650-006	18CPTMW022R_060524	6/5/2024	1320

Service Request Summary

Folder #: **E2400650**
Client Name: ALS Environmental - US
Project Name: Perchlorates
Project Number:

Report To: Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
Fax Number:
E-mail: luis.aguilar@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: JCORONADO2
Date Received: 06/06/24
Internal Due Date: 6/18/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: BASIC_WQC_CASNo

6 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 7B
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON ClO4 DOD/6850
E2400650-001	MW5_060524	Ground Water	06/05/24 0925	**IV**
E2400650-002	18CPTMW08DW_060524	Ground Water	06/05/24 1010	**IV**
E2400650-003	18CPTMW08SW_060524	Ground Water	06/05/24 1055	**IV**
E2400650-004	18CPTMW035SW_060524	Ground Water	06/05/24 1140	**IV**
E2400650-005	18CPTMW022DW_060524	Ground Water	06/05/24 1235	**IV**
E2400650-006	18CPTMW022R_060524	Ground Water	06/05/24 1320	**IV**

Service Request Summary

Folder #: **E2400650**
Client Name: ALS Environmental - US
Project Name: Perchlorates
Project Number:

Report To: Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
Fax Number:
E-mail: luis.aguilar@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: JCORONADO2
Date Received: 06/06/24
Internal Due Date: 6/18/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: BASIC_WQC_CASNo

6 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 7B
Pressure Gas:

Data Qualifiers

Lab Standard

+	Possible Tedlar bag artifact.
A	TIC is a suspected aldol-condensation product
B	Analyte found in the associated method blank as well as in the sample.
BC	Reported results are not blank corrected.
BH	The back section of the tube yielded higher results than the front.
BT	Results indicated possible breakthrough; back section >=10% front section.
C	Result identification confirmed.
D	Compound identified in an analysis at a secondary dilution factor
D	Spike was diluted out
DE	Reported results are corrected for desorption efficiency.
E	Estimated value. Concentration above calibration range
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
H1	Sample analysis performed past holding time. See case narrative.
H2	Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
H3	Sample was received and analyzed past holding time.
H4	Sample was extracted past required extraction holding time, but analyzed within analysis holding time. See case narrative.
I	(Auto) The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
I	Internal standard not within the specified limits. See case narrative.
I	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
J	Estimated Value. Concentration found below MRL.
K	A deflection in the QC ion may indicate interference with the quantitation of this ion. The concentration of this analyte should be considered as an estimate.
K	Analyte was detected above the method reporting limit prior to normalization.
K	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
L1	Laboratory control sample recovery outside the specified limits; results may be biased high.
L2	Laboratory control sample recovery outside the specified limits; results may be biased low.
L3	Laboratory control sample recovery outside the specified limits.
M	Matrix interference; results may be biased high.
M	The duplicate injection precision not met.

Data Qualifiers

Lab Standard

M1	Matrix interference due to coelution with a non-target compound; results may be biased high.
N	Presumptive evidence of a compound for TICs that have been identified based on a mass spectral library search.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
P	Indicates chlorodiphenyl ether interference present at the retention time of the target compound.
P	Pesticide/Aroclor target analyte > 40% difference for detected concentrations between GC columns
Q	Indicates as estimated value because the P and P + 2 theoretical abundance ratio does not meet method criteria.
R	Duplicate Precision not met.
R1	Duplicate precision not within the specified limits; however, the results are below the MRL and considered estimated.
S	Surrogate recovery not within specified limits.
S	The reported value was determined by the Method of Standard Additions (MSA).
T	Analyte is a tentatively identified compound, result is estimated.
U	Compound was analyzed for, but was not detected (ND).
V1	The continuing calibration verification standard was outside (biased high) the specified limits for this compound.
V2	The continuing calibration verification standard was outside (biased low) the specified limits for this compound.
W	Result quantified, but the corresponding peak was detected outside the generated retention time window.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
X	See case narrative.
Y	Recovery outside limits
Y	The chromatogram resembles a petroleum product but does not match the calibration standard.
Z	The chromatogram does not resemble a petroleum product.
i	The MRL/MDL has been elevated due to a matrix interference.

ALS Laboratory Group

Acronyms

Cal	Calibration
Conc	CONCentration
Dioxin(s)	Polychlorinated dibenzo-p-dioxin(s)
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
Flags	Data qualifiers
Furan(s)	Polychlorinated dibenzofuran(s)
g	Grams
ICAL	Initial CALibration
ID	IDentifier
Ions	Masses monitored for the analyte during data acquisition
L	Liter (s)
LCS	Laboratory Control Sample
DLCS	Duplicate Laboratory Control Sample
MB	Method Blank
MCL	Method Calibration Limit
MDL	Method Detection Limit
mL	Milliliters
MS	Matrix Spiked sample
DMS	Duplicate Matrix Spiked sample
NO	Number of peaks meeting all identification criteria
PCDD(s)	Polychlorinated dibenzo-p-dioxin(s)
PCDF(s)	Polychlorinated dibenzofuran(s)
ppb	Parts per billion
ppm	Parts per million
ppq	Parts per quadrillion
ppt	Parts per trillion
QA	Quality Assurance
QC	Quality Control
Ratio	Ratio of areas from monitored ions for an analyte
% Rec.	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SDG	Sample Delivery Group
S/N	Signal-to-noise ratio
TEF	Toxicity Equivalence Factor
TEQ	Toxicity Equivalence Quotient

10450 Stancliff Rd, Houston, TX 77099 | 281-530-5656 | www.alsglobal.com

ALS Environmental

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arkansas Department of Environmental Quality	88-00356	3/28/2025
California State Environmental Laboratory Accreditation Program	2919-2024	4/30/2025
Department of Defense	L24-240	4/30/2026
Florida Department of Health	E87611-38	6/30/2024
Hawaii Department of Health	2024	4/30/2025
Illinois Environmental Protection Agency	2000322023-11	6/30/2024
Kansas Department of Health and Environment	E-10352 2023-2024	7/31/2024
Louisiana Department of Environmental Quality	03087-2023	6/30/2024
Louisiana Department of Health and Hospitals	LA028-2024	12/31/2024
Maryland Department of the Environment	343-2023	6/30/2024
Minnesota Department of Health	2645386	12/31/2024
Nevada Division of Environmental Protection	TX026932024-1	7/31/2024
New Hampshire Environmental Laboratory Accreditation Program	209424-A	4/24/2025
New Jersey Department of Environmental Protection	TX008-2024	6/30/2024
Oklahoma Department of Environmental Quality	2023-140	8/31/2024
Oregon Environmental Laboratory Accreditation Program	TX200002-2024	5/15/2025
Pennsylvania Department of Environmental Protection	68-03441-017	6/30/2024
Tennessee Department of Environment and Conservation	04016-2024	4/30/2025
Texas Commision on Environmental Quality	TX-C24-00130	4/30/2025
Utah Department of Health Environmental Laboratory Certification	TX026932023-14	7/31/2024
Washington Department of Ecology	C819-23	11/14/2024

Chain of Custody

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

E2400650 5
ALS Laboratory Group
Perchlorates

10450 Stancliff Rd, Ste 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

Subcontract Chain of Custody

SAMPLING STATE: **Texas** **COC ID:** **25909**

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	James Guin
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	James.Guin@alsglobal.com
Alternate Contact:	Jumoke M. Lawal
Email:	jumoke.lawal@alsglobal.com

INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	HS24060293
TSR:	Sonia West

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24060293-01**	**MW5_060524**	**Groundwater**	**05 Jun 2024 09:25**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			20 Jun 2024
2.	**HS24060293-02**	**18CPTMW08DW_060524**	**Groundwater**	**05 Jun 2024 10:10**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			20 Jun 2024
3.	**HS24060293-03**	**18CPTMW08SW_060524**	**Groundwater**	**05 Jun 2024 10:55**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			20 Jun 2024
4.	**HS24060293-04**	**18CPTMW035SW_060524**	**Groundwater**	**05 Jun 2024 11:40**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			20 Jun 2024
5.	**HS24060293-05**	**18CPTMW022DW_060524**	**Groundwater**	**05 Jun 2024 12:35**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			20 Jun 2024
6.	**HS24060293-06**	**18CPTMW022R_060524**	**Groundwater**	**05 Jun 2024 13:20**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			20 Jun 2024

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.

QC Level: DOD IV (DoD Data Package)

Subcontract Chain of Custody

SAMPLING STATE: **Texas** **COC ID:** **25909**

Relinquished By: _____ Date/Time: _____

Received By: _____ Date/Time: 6/6/24 0945

Cooler ID(s): _____ Temperature(s): _____

E2400650
ALS Laboratory Group
Perchlorates
5

10450 Stancliff Rd, Ste 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

Sample Receipt Checklist

Work Order ID: HS24060293 **Date/Time received:** 06 Jun 2024 09:45

Client name: Bhate Environmental Associates, Inc. **Received by:** Si Ma

Completed/By: 06 Jun 2024 11:44 (Date/Time) Rajen Giga (eSignature) **Reviewed/By:** (Date/Time) (eSignature)

Matrices: GW **Carrier name:** FedEx Priority Overnight

Shipping container/cooler in good condition?	☑ Yes	☐ No	☐ Not Present	
Custody seals intact on shipping container/cooler?	☑ Yes	☐ No	☐ Not Present	
Custody seals intact on Sample bottles?	☐ Yes	☐ No	☑ Not Present	
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	☐ Yes	☐ No	☑ Not Present	
Chain of custody present?	☑ Yes	☐ No	1 Page(s)	
Chain of custody signed when relinquished and received?	☐ Yes	☑ No	COC ID(s): 1	
Samplers name present on COC?	☑ Yes	☐ No		
Chain of custody agrees with sample labels?	☑ Yes	☐ No		
Samples in proper container/bottle?	☑ Yes	☐ No		
Sample containers intact?	☑ Yes	☐ No		
Sufficient sample volume for indicated test?	☑ Yes	☐ No		
All samples received within holding time?	☑ Yes	☐ No		
Container/Temp Blank temperature in compliance?	☑ Yes	☐ No		

Temperature(s)/Thermometer(s): 2.1uc/2.2c IR31

Cooler Information: 1 Cooler(s), 46232

Date/Time sample(s) sent to storage: 06/06/2024 11:50

Water - VOA vials have zero headspace?	☑ Yes	☐ No	☐ No VOA vials submitted
Water - pH acceptable upon receipt?	☑ Yes	☐ No	☐ Not Applicable
pH adjusted?	☐ Yes	☑ No	☐ Not Applicable

pH adjusted by: _____

Login notes: _____

Client contacted: _____ **Date contacted:** _____ **Person contacted:** _____

Contacted by: _____ **Regarding:** _____

Comments: _____

Corrective action: _____

10450 Stancliff Rd., Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

SAMPLE ACCEPTANCE POLICY

This policy outlines the criteria samples must meet to be accepted by ALS Environmental – Houston HRMS.

Cooler Custody Seals (desirable, mandatory if specified in SAP):

- ✓ Intact on outside of cooler, signed and dated

Chain-of-Custody (COC) documentation (mandatory):

The following is required on each COC:

- ✓ Sample ID, the location, date and time of collection, collector's name, preservation type, sample type, and any other special remarks concerning the sampleThe COC must be completed in ink.
- ✓ Signature and date of relinquishing party.

In the absence of a COC at sample receipt, the COC will be requested from the client.

Sample Integrity (mandatory):

Samples are inspected upon arrival to ensure that sample integrity was not compromised during transfer to the laboratory.

- ✓ Sample containers must arrive in good condition (not broken or leaking).
- ✓ Samples must be labeled appropriately, including Sample IDs, and requested test using durable labels and indelible ink.
- ✓ The correct type of sample bottle must be used for the method requested.
- ✓ An appropriate sample volume, or weight, must be received.
- ✓ Sample IDs and number of containers must reconcile with the COC.
- ✓ Samples must be received within the method defined holding time.

Temperature Requirement (varies by sample matrix):

- ✓ Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6ºC.
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10ºC.
- ✓ Air samples are shipped and stored cold, at 0 to 6ºC
- ✓ The sample temperature must be recorded on the COC

All cooler inspections are documented on the Cooler Receipt Form (CRF). A separate CRF is completed for each service request. Any samples not meeting the above criteria are noted on the CRF and the Project Manager notified. The Project Manager must resolve any sample integrity issues with the client prior to proceeding with the analysis. Such resolutions are documented in writing and filed with the project folder. Data associated with samples received outside of this acceptance policy will be qualified on the case narrative of the final report

Preparation Information Benchsheets

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Preparation Information Benchsheet

Prep Run#: 439817 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/CGUERRA **Prep Method:** Method **Prep Date/Time:** 6/11/24 09:37

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2400629-001	LGAC-INF-060324	.01	6850/ClO4			Water	10mL	
2	E2400647-001	MTARNG-GW-LH01	.01	6850/ClO4 DOD			Water	10mL	
3	E2400647-002	MTARNG-GW-LH02	.01	6850/ClO4 DOD			Water	10mL	
4	E2400647-003	MTARNG-GW-LH04	.01	6850/ClO4 DOD			Water	10mL	
5	E2400647-004	MTARNG-GW-LH05	.01	6850/ClO4 DOD			Water	10mL	
6	E2400647-005	MTARNG-GW-FD01	.01	6850/ClO4 DOD			Water	10mL	
7	E2400647-006	MTARNG-GW-CB01	.01	6850/ClO4 DOD			Water	10mL	
8	E2400650-001	MW5_060524	.01	6850/ClO4 DOD			Ground Water	10mL	
9	E2400650-002	18CPTMW08DW_060524	.01	6850/ClO4 DOD			Ground Water	10mL	
10	E2400650-003	18CPTMW08SW_060524	.01	6850/ClO4 DOD			Ground Water	10mL	
11	E2400650-004	18CPTMW035SW_060524	.01	6850/ClO4 DOD			Ground Water	10mL	
12	E2400650-005	18CPTMW022DW_060524	.01	6850/ClO4 DOD			Ground Water	10mL	
13	E2400650-006	18CPTMW022R_060524	.01	6850/ClO4 DOD			Ground Water	10mL	
14	EQ2400303-01	MB		6850/ClO4 DOD			Liquid	10mL	
15	EQ2400303-02	LCS		6850/ClO4 DOD			Liquid	10mL	
16	EQ2400303-03	ICS		6850/ClO4 DOD			Liquid	10mL	
17	EQ2400303-04	MTARNG-GW-LH05 MS	.02	6850/ClO4 DOD			Liquid	10mL	
18	EQ2400303-05	MTARNG-GW-LH05 DMS	.02	6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Intermediate Stock 3 Inventory ID 233558 Logbook Ref: Perchlorate INT Stock3 Expires On: 08/05/2024

EQ2400303-02	100.00µL	EQ2400303-02	100.00µL	EQ2400303-03	100.00µL	EQ2400303-03	100.00µL	EQ2400303-04	100.00µL	EQ2400303-05	100.00µL

Name: Perchlorate Anion Spiking Soln. 25,000 ppm Inventory ID 233595 Logbook Ref: Expires On: 08/04/2024

EQ2400303-03	20.00µL	EQ2400303-03	20.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 235428 Logbook Ref: Perchlorate IS cg5/24/24 Expires On: 11/24/2024

E2400629-001	100.00µL	E2400647-001	100.00µL	E2400647-002	100.00µL	E2400647-003	100.00µL	E2400647-004	100.00µL	E2400647-005	100.00µL
E2400647-006	100.00µL	E2400650-001	100.00µL	E2400650-002	100.00µL	E2400650-003	100.00µL	E2400650-004	100.00µL	E2400650-005	100.00µL
E2400650-006	100.00µL	EQ2400303-01	100.00µL	EQ2400303-01	100.00µL	EQ2400303-02	100.00µL	EQ2400303-02	100.00µL	EQ2400303-03	100.00µL
EQ2400303-03	100.00µL	EQ2400303-04	100.00µL	EQ2400303-05	100.00µL						

Preparation Materials

Water HPLC Grade	HPLC WATER 04/15/24 (233144)	6850 0.45um syringe filters	6850 0.45 SYRING FILTER (229979)	6850 Luer-Lok Syringes	Luer Lok Syringes (235268)

Preparation Information Benchsheet

Prep Run#: 439817 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/CGUERRA **Prep Method:** Method **Prep Date/Time:** 6/11/24 09:37

Preparation Steps

Step: Preparation
Started: 6/11/24 09:37
Finished: 6/11/24 11:00
By: CGUERRA
Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined

Received By: _____ Date: _____ Yes No

Analytical Results

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400650
Project:	Perchlorates	**Date Collected:**	6/ 5/24 0925
Sample Matrix:	Ground Water	**Date Received:**	6/ 6/24
Sample Name:	MW5_060524	**Units:**	µg/L
Lab Code:	E2400650-001	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**26700**		1000	500	250	10000	6/11/24	6/12/24 11:44	439817	843893	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400650
Project:	Perchlorates	**Date Collected:**	6/ 5/24 1010
Sample Matrix:	Ground Water	**Date Received:**	6/ 6/24
Sample Name:	18CPTMW08DW_060524	**Units:**	µg/L
Lab Code:	E2400650-002	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**12300**		1000	500	250	10000	6/11/24	6/12/24 11:55	439817	843893	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400650
Project:	Perchlorates	**Date Collected:**	6/ 5/24 1055
Sample Matrix:	Ground Water	**Date Received:**	6/ 6/24
Sample Name:	18CPTMW08SW_060524	**Units:**	µg/L
Lab Code:	E2400650-003	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**18600**		1000	500	250	10000	6/11/24	6/12/24 11:50	439817	843893	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400650
Project:	Perchlorates	**Date Collected:**	6/ 5/24 1140
Sample Matrix:	Ground Water	**Date Received:**	6/ 6/24
Sample Name:	18CPTMW035SW_060524	**Units:**	µg/L
Lab Code:	E2400650-004	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**11.5**		0.100	0.0500	0.0250	1	6/11/24	6/12/24 11:38	439817	843893	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400650
Project:	Perchlorates	**Date Collected:**	6/ 5/24 1235
Sample Matrix:	Ground Water	**Date Received:**	6/ 6/24
Sample Name:	18CPTMW022DW_060524	**Units:**	µg/L
Lab Code:	E2400650-005	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.0299**	J	0.100	0.0500	0.0250	1	6/11/24	6/12/24 11:33	439817	843893	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400650
Project:	Perchlorates	**Date Collected:**	6/ 5/24 1320
Sample Matrix:	Ground Water	**Date Received:**	6/ 6/24
Sample Name:	18CPTMW022R_060524	**Units:**	µg/L
Lab Code:	E2400650-006	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.0809**	J	0.100	0.0500	0.0250	1	6/11/24	6/11/24 19:00	439817	843806	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400650
Project:	Perchlorates	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2400303-01	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	6/11/24	6/11/24 17:15	439817	843806	

Accuracy & Precision

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400650
Project:	Perchlorates	**Date Analyzed:**	06/11/24
Sample Matrix:	Ground Water	**Date Extracted:**	06/11/24

Lab Control Sample Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analysis Method:	6850	**Units:**	ug/L
Prep Method:	Method	**Basis:**	NA
		Analysis Lot:	843806

Lab Control Sample
EQ2400303-02

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Perchlorate	0.110	0.100	110	84-119

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400650
Project:	Perchlorates	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400303-02	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.110**		0.100	0.0500	0.0250	1	6/11/24	6/11/24 17:20	439817	843806	

Initial Calibration

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 210, Houston, TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

843806

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240611-001	IB	Perchlorate6850c.lcm	1x		6/11/2024 15:40
2	20240611-002	Perchlorate ICAL 1	Perchlorate6850c.lcm	1x		6/11/2024 15:46
3	20240611-003	Perchlorate ICAL 2	Perchlorate6850c.lcm	1x		6/11/2024 15:52
4	20240611-004	Perchlorate ICAL 3	Perchlorate6850c.lcm	1x		6/11/2024 15:57
5	20240611-005	Perchlorate ICAL 4	Perchlorate6850c.lcm	1x		6/11/2024 16:03
6	20240611-006	Perchlorate ICAL 5	Perchlorate6850c.lcm	1x		6/11/2024 16:08
7	20240611-007	Perchlorate ICAL 6	Perchlorate6850c.lcm	1x		6/11/2024 16:14
8	20240611-008	Perchlorate ICAL 7	Perchlorate6850c.lcm	1x		6/11/2024 16:19
9	20240611-009	Perchlorate ICAL 8	Perchlorate6850c.lcm	1x		6/11/2024 16:25
10	20240611-010	Perchlorate ICAL 9	Perchlorate6850c.lcm	1x		6/11/2024 16:30
11	20240611-011	Perchlorate ICAL 10	Perchlorate6850c.lcm	1x		6/11/2024 16:36
12	20240611-012	PerchlorateICV	Perchlorate6850c.lcm	1x		6/11/2024 16:42
13	20240611-013	IB	Perchlorate6850c.lcm	1x		6/11/2024 16:47
14	20240611-014	LODV	Perchlorate6850c.lcm	1x		6/11/2024 16:53
15	20240611-015	ICS	Perchlorate6850c.lcm	1x		6/11/2024 16:58
16	20240611-016	CCV	Perchlorate6850c.lcm	1x		6/11/2024 17:04
17	20240611-017	IB	Perchlorate6850c.lcm	1x		6/11/2024 17:09
18	20240611-018	EQ2400303-001	Perchlorate6850c.lcm	1x		6/11/2024 17:15
19	20240611-019	EQ2400303-002	Perchlorate6850c.lcm	1x		6/11/2024 17:20
20	20240611-020	EQ2400303-003	Perchlorate6850c.lcm	1x		6/11/2024 17:26
21	20240611-021	EQ2400303-004	Perchlorate6850c.lcm	1x		6/11/2024 17:31
22	20240611-022	EQ2400303-005	Perchlorate6850c.lcm	1x		6/11/2024 17:37
23	20240611-023	E2400629-001	Perchlorate6850c.lcm	1x		6/11/2024 17:42
24	20240611-024	E2400647-001	Perchlorate6850c.lcm	1x		6/11/2024 17:48
25	20240611-025	E2400647-002	Perchlorate6850c.lcm	1x		6/11/2024 17:54
26	20240611-026	E2400647-003	Perchlorate6850c.lcm	1x		6/11/2024 17:59
27	20240611-027	E2400647-004	Perchlorate6850c.lcm	1x		6/11/2024 18:05
28	20240611-028	CCV	Perchlorate6850c.lcm	1x		6/11/2024 18:10
29	20240611-029	IB	Perchlorate6850c.lcm	1x		6/11/2024 18:16
30	20240611-030	E2400647-005	Perchlorate6850c.lcm	1x		6/11/2024 18:21
31	20240611-031	E2400647-006	Perchlorate6850c.lcm	1x		6/11/2024 18:27
32	20240611-032	E2400650-001	Perchlorate6850c.lcm	1x	DNU needs DL	6/11/2024 18:32
33	20240611-033	E2400650-002	Perchlorate6850c.lcm	1x	DNU needs DL	6/11/2024 18:38
34	20240611-034	E2400650-003	Perchlorate6850c.lcm	1x	DNU needs DL	6/11/2024 18:43
35	20240611-035	E2400650-004	Perchlorate6850c.lcm	1x	DNU RI possible C/O	6/11/2024 18:49
36	20240611-036	E2400650-005	Perchlorate6850c.lcm	1x	DNU RI possible C/O	6/11/2024 18:54
37	20240611-037	E2400650-006	Perchlorate6850c.lcm	1x		6/11/2024 19:00
38	20240611-038	CCV	Perchlorate6850c.lcm	1x		6/11/2024 19:06
39	20240611-039	IB	Perchlorate6850c.lcm	1x		6/11/2024 19:11
40			Perchlorate6850c.lcm	1x		

843806

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
41			Perchlorate6850c.lcm	1x		
42			Perchlorate6850c.lcm	1x		
43			Perchlorate6850c.lcm	1x		
44			Perchlorate6850c.lcm	1x		
45			Perchlorate6850c.lcm	1x		
46			Perchlorate6850c.lcm	1x		
47			Perchlorate6850c.lcm	1x		

Initial Calibration - Detailed Report

Calibration ID: EC2400009 **Instrument ID:** E-LCMS-01
Column Name: 1

#	Lab Code	Sample Name	File Location	Aquisition Date
01	EC2400009-01	Perchlorate ICAL 1	20240611-002	06/11/2024 15:46
02	EC2400009-02	Perchlorate ICAL 2	20240611-003	06/11/2024 15:52
03	EC2400009-03	Perchlorate ICAL 3	20240611-004	06/11/2024 15:57
04	EC2400009-04	Perchlorate ICAL 4	20240611-005	06/11/2024 16:03
05	EC2400009-05	Perchlorate ICAL 5	20240611-006	06/11/2024 16:08
06	EC2400009-06	Perchlorate ICAL 6	20240611-007	06/11/2024 16:14
07	EC2400009-07	Perchlorate ICAL 7	20240611-008	06/11/2024 16:19
08	EC2400009-08	Perchlorate ICAL 8	20240611-009	06/11/2024 16:25
09	EC2400009-09	Perchlorate ICAL 9	20240611-010	06/11/2024 16:30
10	EC2400009-10	Perchlorate ICAL 10	20240611-011	06/11/2024 16:36

Analyte **Curve Fit** **Weighting**

Perchlorate **Average RF** **RSD = 5.222** **Average RF = 0.146**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.1000	0.1359	02	0.5000	0.1389	03	0.7000	0.1344	04	1.0000	0.1446
05	2.0000	0.1447	06	5.0000	0.1567	07	10.0000	0.1526	08	20.0000	0.1528
09	30.0000	0.1488	10	50.0000	0.1506						

Analyte

Perchlorate RSE = 5.22

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.1000	0.0931	-6.9	02	0.5000	0.476	-4.9	03	0.7000	0.644	-7.9
04	1.0000	0.990	-1.0	05	2.0000	1.98	-0.9	06	5.0000	5.37	7.3
07	10.0000	10.5	4.5	08	20.0000	20.9	4.7	09	30.0000	30.6	1.9
10	50.0000	51.6	3.1								

Initial Calibration Verification Summary Report

Calibration ID:	EC2400009	**Instrument ID:**	E-LCMS-01
Datafile ID:	20240611-012	**Column Name:**	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Perchlorate	EC2400009-11	T	Average RF	10	10.282	ng/mL	2.8	<= 15

Insight Report

Printed at 6/12/2024 8:45:04 AM

Method File: I:\LCMS01\DATA\20240611\202405611_ICAL.lcm
Project File: I:\LCMS01\DATA\20240611\20240611_ICAL.damlp

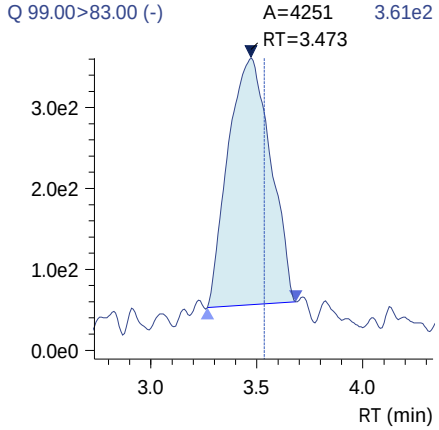
Perchlorate ICAL 1

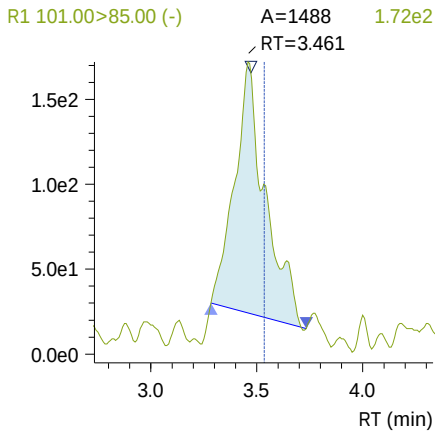
Sample ID: Perchlorate ICAL 1
Date Acquired: 6/11/2024 3:46:30 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-002.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.473	4251	312768	0.0931	ng/mL	101.00 >85.00	35.01	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.453	312768	312768	1.0000	ng/mL	----	----	

Perchlorate

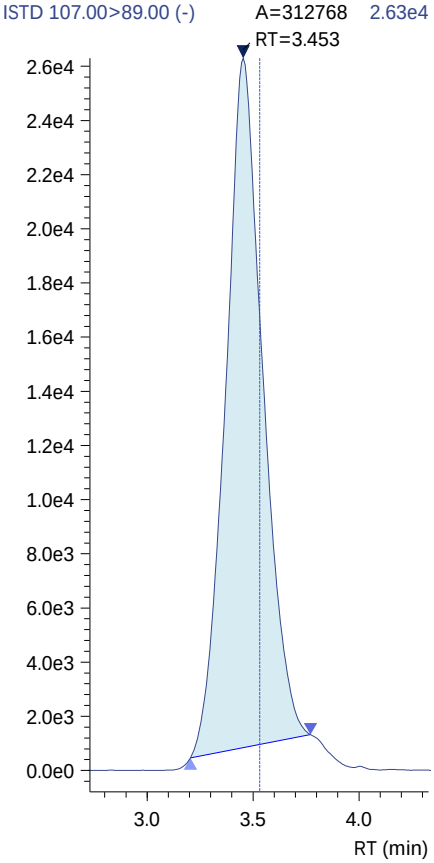
Conc 0.0931
R#1 35.01 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

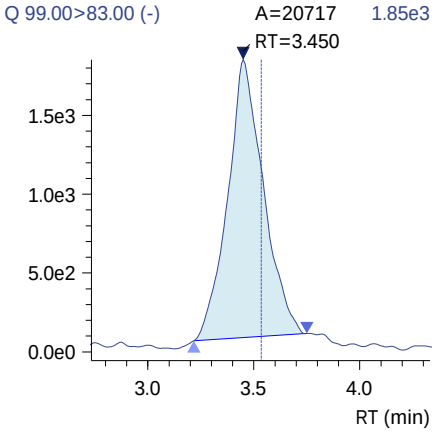
Perchlorate ICAL 2

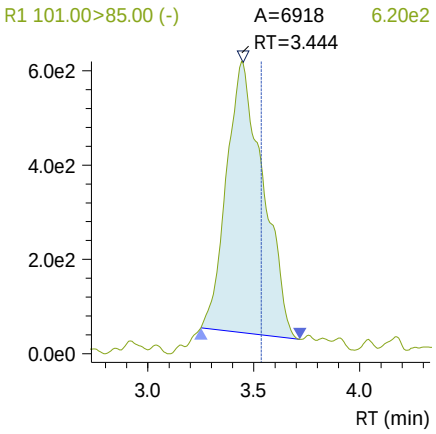
Sample ID: Perchlorate ICAL 2
Date Acquired: 6/11/2024 3:52:02 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-003.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.450	20717	298266	0.4757	ng/mL	101.00 >85.00	33.39	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.455	298266	298266	1.0000	ng/mL	----	----	

Perchlorate

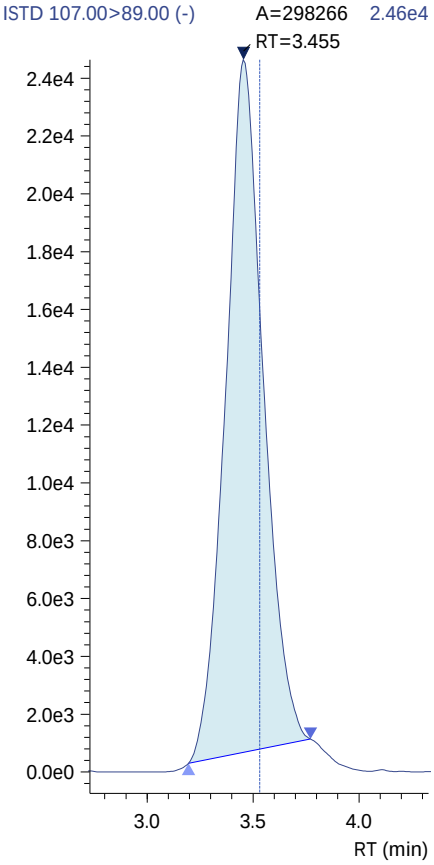
Conc 0.4757
R#1 33.39 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

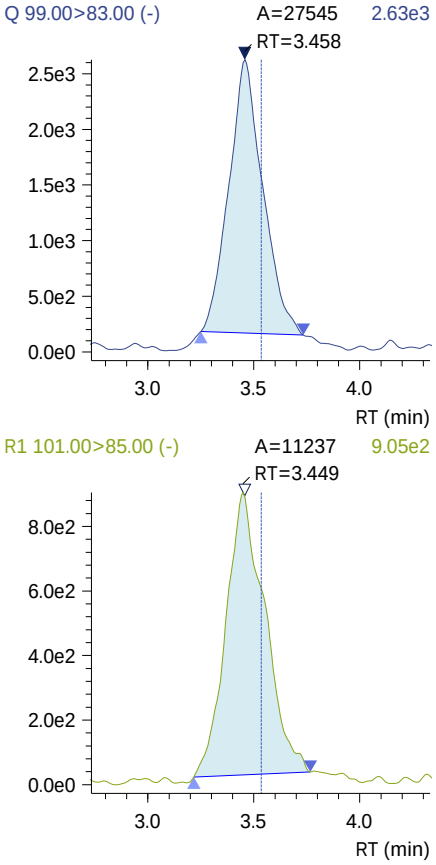
Perchlorate ICAL 3

Sample ID: Perchlorate ICAL 3
Date Acquired: 6/11/2024 3:57:35 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-004.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.458	27545	292777	0.6444	ng/mL	101.00 >85.00	40.79	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.459	292777	292777	1.0000	ng/mL	----	----	

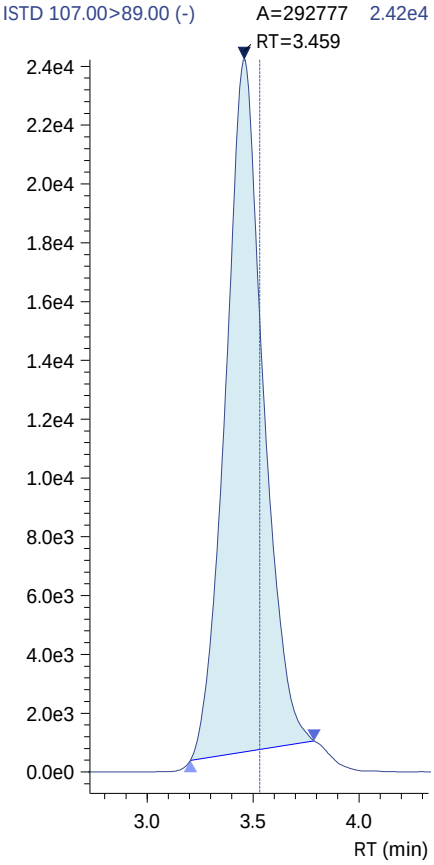
Perchlorate

Conc 0.6444
R#1 40.79 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

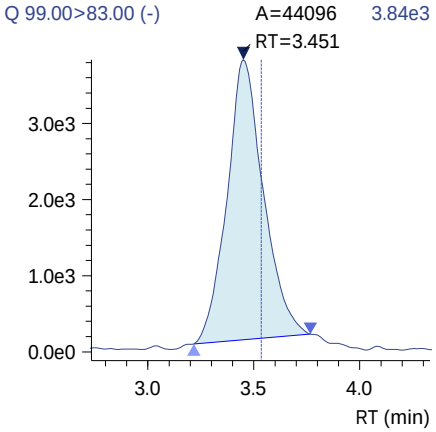
Perchlorate ICAL 4

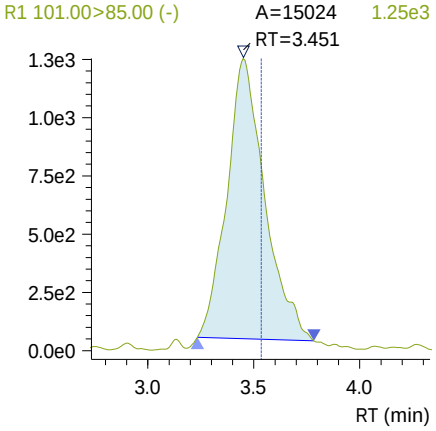
Sample ID: Perchlorate ICAL 4
Date Acquired: 6/11/2024 4:03:10 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-005.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.451	44096	304940	0.9904	ng/mL	101.00 >85.00	34.07	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.454	304940	304940	1.0000	ng/mL	----	----	

Perchlorate

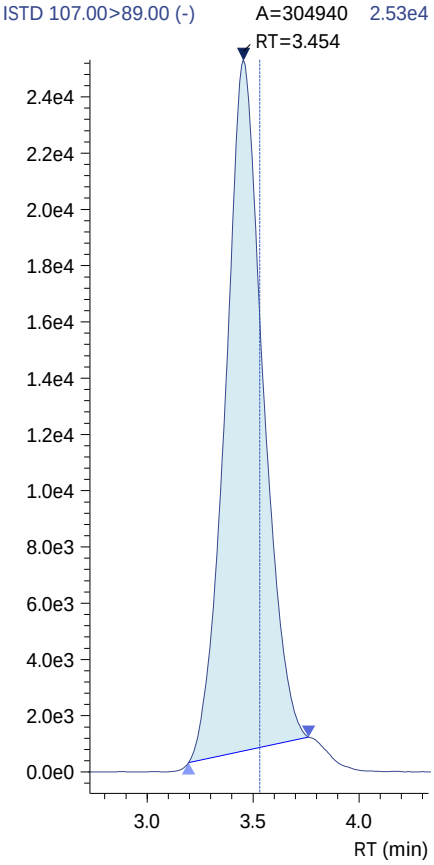
Conc 0.9904
R#1 34.07 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

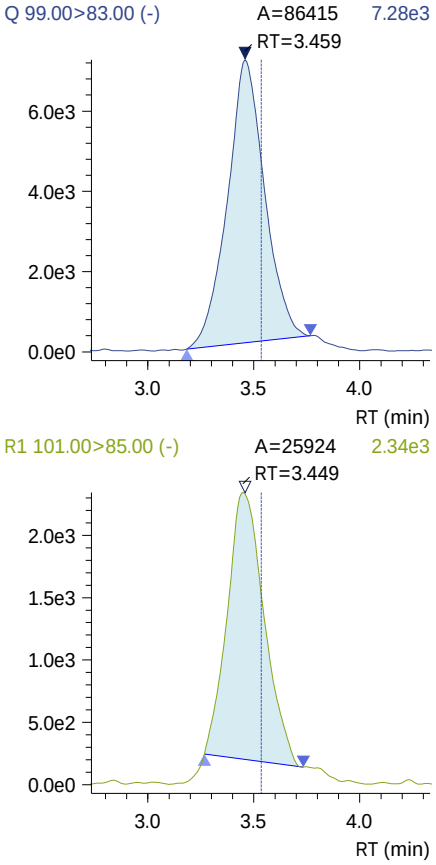
Perchlorate ICAL 5

Sample ID: Perchlorate ICAL 5
Date Acquired: 6/11/2024 4:08:45 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-006.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.459	86415	298543	1.9825	ng/mL	101.00 >85.00	30.00	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.454	298543	298543	1.0000	ng/mL	----	----	

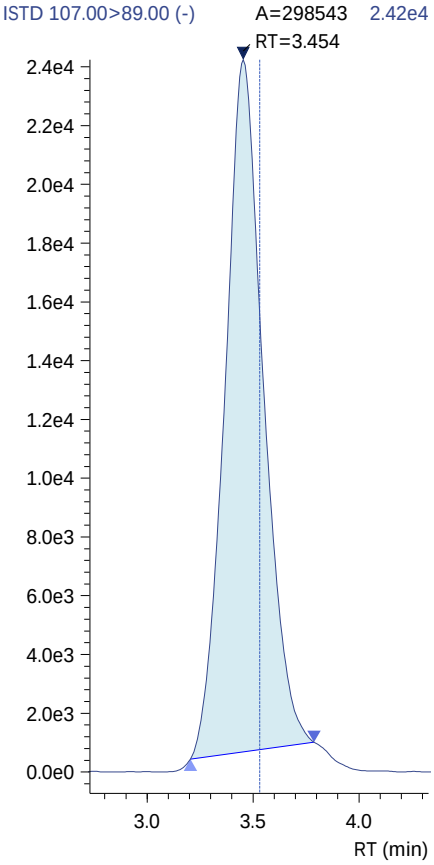
Perchlorate

Conc 1.9825
R#1 30.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

Perchlorate ICAL 6

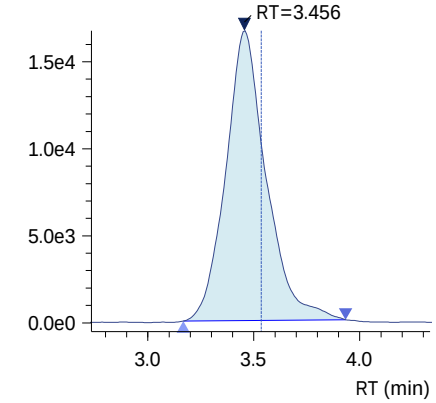
Sample ID: Perchlorate ICAL 6
Date Acquired: 6/11/2024 4:14:20 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-007.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.456	221568	282809	5.3659	ng/mL	101.00 >85.00	32.17	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.453	282809	282809	1.0000	ng/mL	----	----	

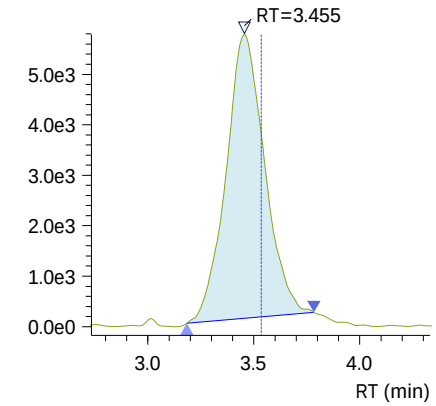
Perchlorate

Conc 5.3659
R#1 32.17 (34.10)

Q 99.00>83.00 (-) A=221568 1.68e4 RT=3.456



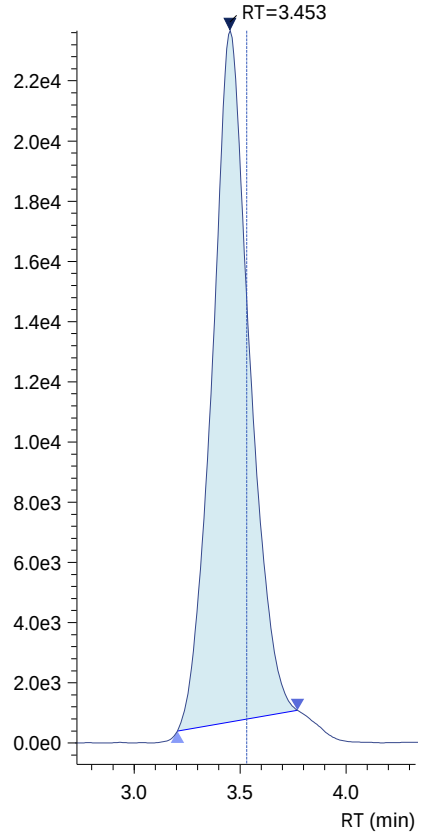
R1 101.00>85.00 (-) A=71270 5.79e3 RT=3.455



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=282809 2.37e4 RT=3.453



Insight Report

Printed at 6/12/2024 8:45:04 AM

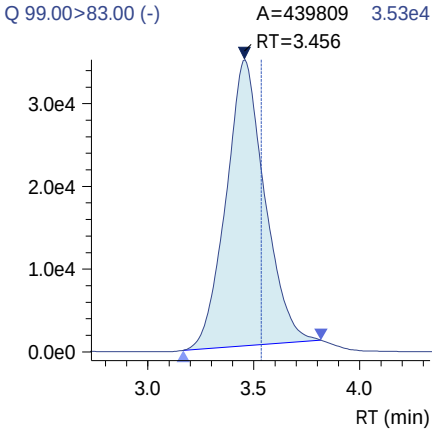
Perchlorate ICAL 7

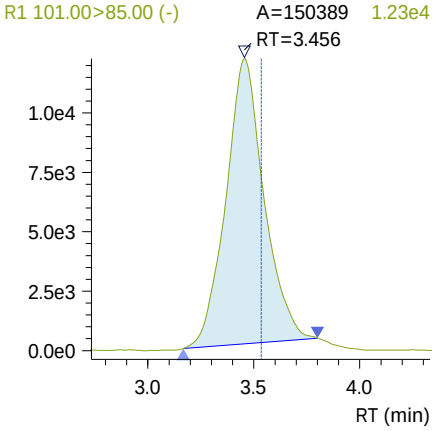
Sample ID: Perchlorate ICAL 7
Date Acquired: 6/11/2024 4:19:54 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-008.lcd
Vial: 7 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.456	439809	288244	10.4505	ng/mL	101.00 >85.00	34.19	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.455	288244	288244	1.0000	ng/mL	----	----	

Perchlorate

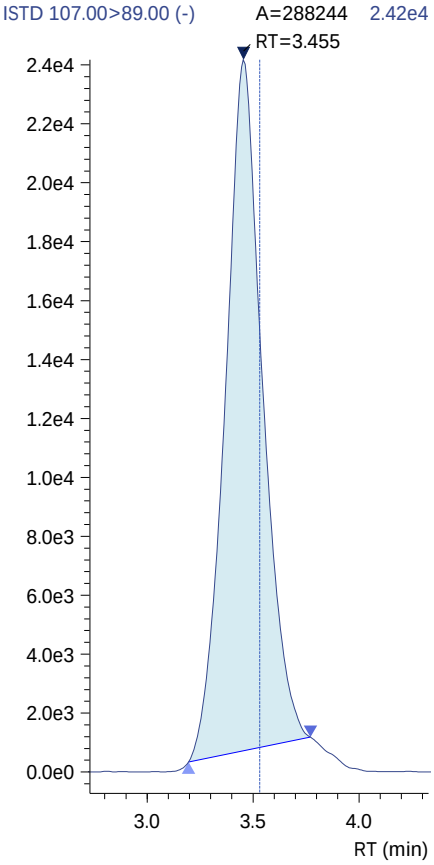
Conc 10.4505
R#1 34.19 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

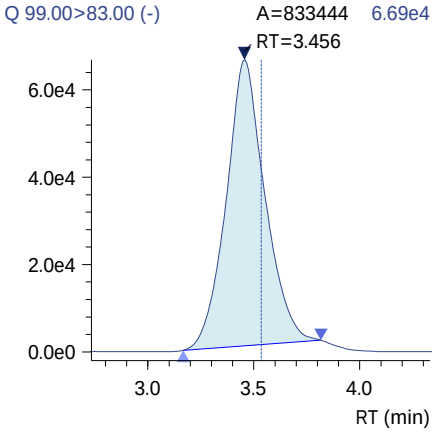
Perchlorate ICAL 8

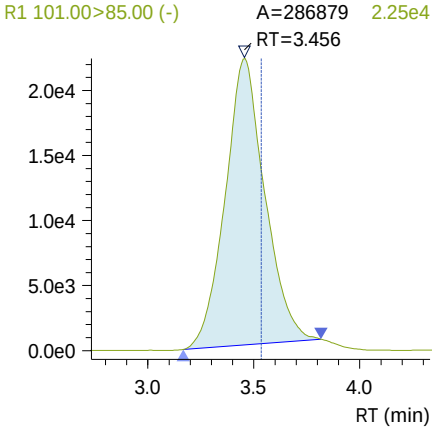
Sample ID: Perchlorate ICAL 8
Date Acquired: 6/11/2024 4:25:27 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-009.lcd
Vial: 8 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.456	833444	272651	20.9 364	ng/mL	101.00 >85.00	34.42	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.455	272651	272651	1.0000	ng/mL	----	----	

Perchlorate

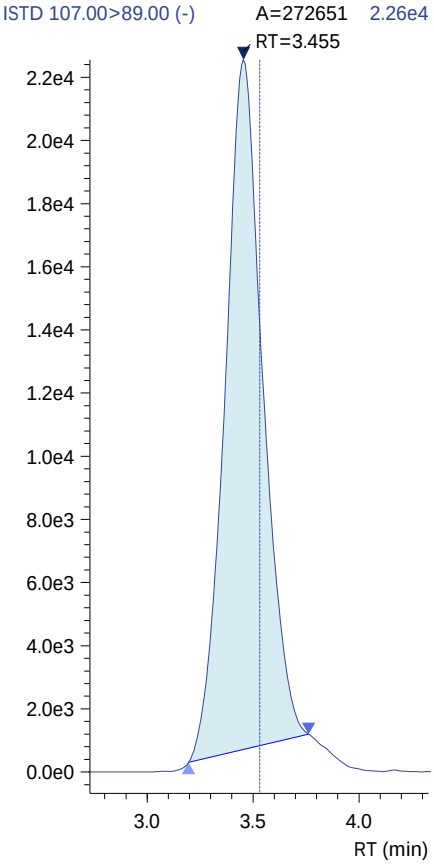
Conc 20.9364
R#1 34.42 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

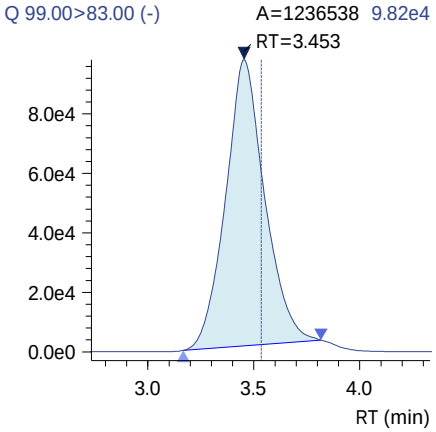
Perchlorate ICAL 9

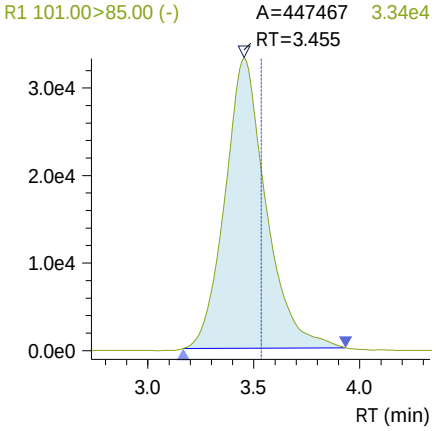
Sample ID: Perchlorate ICAL 9
Date Acquired: 6/11/2024 4:30:58 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-010.lcd
Vial: 9 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.453	12365	276997	30.5	ng/mL	101.00	36.19	23.50
			38		749		>85.00		-43.64
Sodium Perchlorate -18O4_IS	Auto	3.452	276997	276997	1.0000	ng/mL	----	----	

Perchlorate

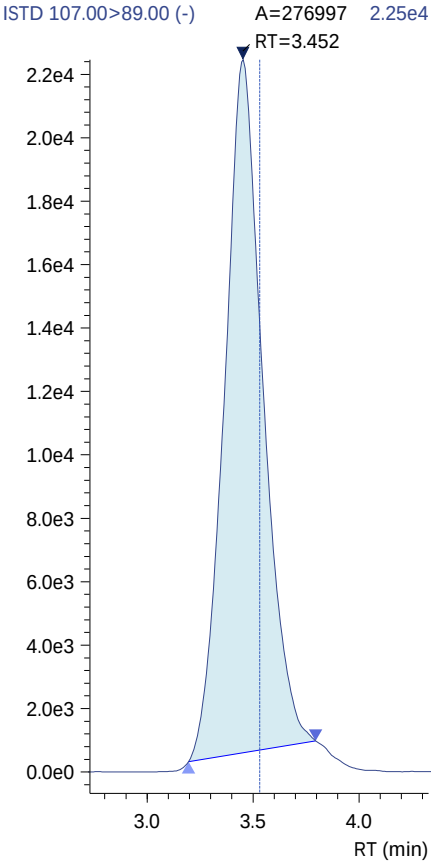
Conc 30.5749
R#1 36.19 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

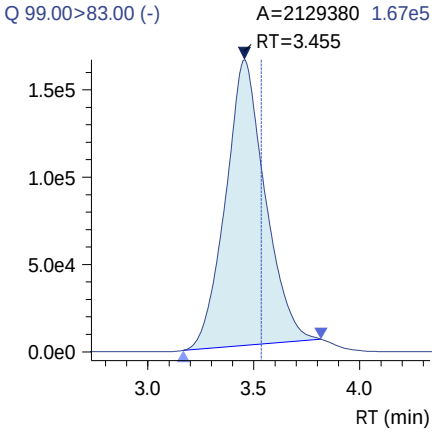
Perchlorate ICAL 10

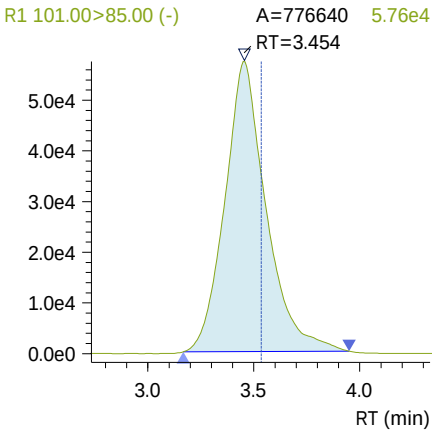
Sample ID: Perchlorate ICAL 10
Date Acquired: 6/11/2024 4:36:29 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-011.lcd
Vial: 10 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.455	21293 80	282834	51.5 649	ng/mL	101.00 >85.00	36.47	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.453	282834	282834	1.0000	ng/mL	----	----	

Perchlorate

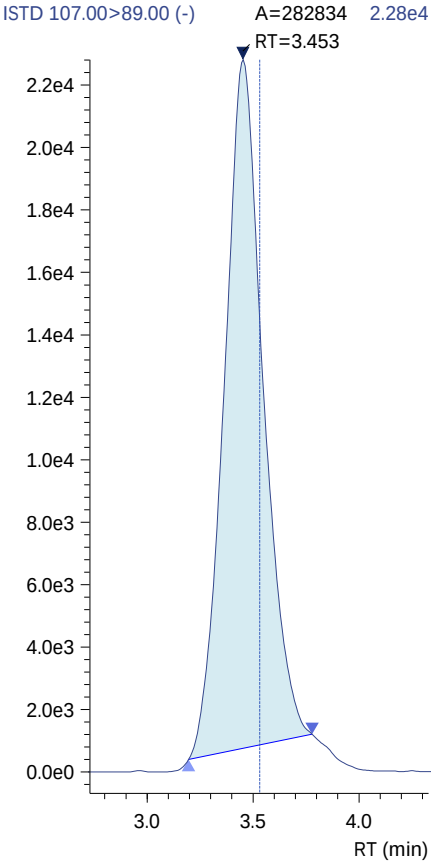
Conc 51.5649
R#1 36.47 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

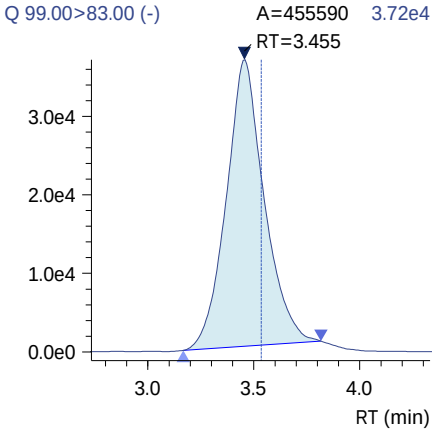
PerchlorateICV

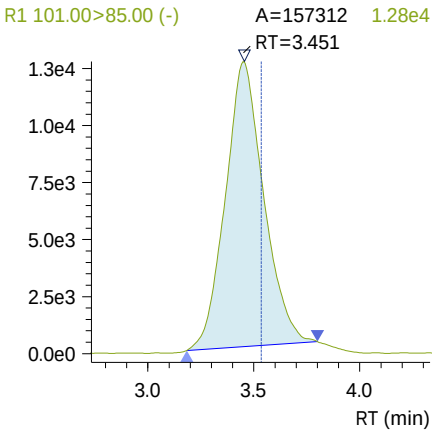
Sample ID: PerchlorateICV
Date Acquired: 6/11/2024 4:42:02 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-012.lcd
Vial: 11 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.455	455590	303470	10.2 823	ng/mL	101.00 >85.00	34.53	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.454	303470	303470	1.0000	ng/mL	----	----	

Perchlorate

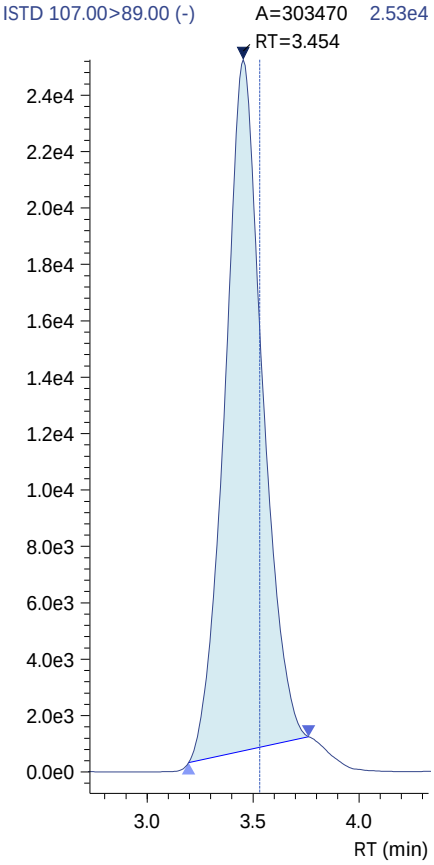
Conc 10.2823
R#1 34.53 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Chromatograms and Selected Ion Monitoring

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 320, Houston TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

843806

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240611-001	IB	Perchlorate6850c.lcm	1x		6/11/2024 15:40
2	20240611-002	Perchlorate ICAL 1	Perchlorate6850c.lcm	1x		6/11/2024 15:46
3	20240611-003	Perchlorate ICAL 2	Perchlorate6850c.lcm	1x		6/11/2024 15:52
4	20240611-004	Perchlorate ICAL 3	Perchlorate6850c.lcm	1x		6/11/2024 15:57
5	20240611-005	Perchlorate ICAL 4	Perchlorate6850c.lcm	1x		6/11/2024 16:03
6	20240611-006	Perchlorate ICAL 5	Perchlorate6850c.lcm	1x		6/11/2024 16:08
7	20240611-007	Perchlorate ICAL 6	Perchlorate6850c.lcm	1x		6/11/2024 16:14
8	20240611-008	Perchlorate ICAL 7	Perchlorate6850c.lcm	1x		6/11/2024 16:19
9	20240611-009	Perchlorate ICAL 8	Perchlorate6850c.lcm	1x		6/11/2024 16:25
10	20240611-010	Perchlorate ICAL 9	Perchlorate6850c.lcm	1x		6/11/2024 16:30
11	20240611-011	Perchlorate ICAL 10	Perchlorate6850c.lcm	1x		6/11/2024 16:36
12	20240611-012	PerchlorateICV	Perchlorate6850c.lcm	1x		6/11/2024 16:42
13	20240611-013	IB	Perchlorate6850c.lcm	1x		6/11/2024 16:47
14	20240611-014	LODV	Perchlorate6850c.lcm	1x		6/11/2024 16:53
15	20240611-015	ICS	Perchlorate6850c.lcm	1x		6/11/2024 16:58
16	20240611-016	CCV	Perchlorate6850c.lcm	1x		6/11/2024 17:04
17	20240611-017	IB	Perchlorate6850c.lcm	1x		6/11/2024 17:09
18	20240611-018	EQ2400303-001	Perchlorate6850c.lcm	1x		6/11/2024 17:15
19	20240611-019	EQ2400303-002	Perchlorate6850c.lcm	1x		6/11/2024 17:20
20	20240611-020	EQ2400303-003	Perchlorate6850c.lcm	1x		6/11/2024 17:26
21	20240611-021	EQ2400303-004	Perchlorate6850c.lcm	1x		6/11/2024 17:31
22	20240611-022	EQ2400303-005	Perchlorate6850c.lcm	1x		6/11/2024 17:37
23	20240611-023	E2400629-001	Perchlorate6850c.lcm	1x		6/11/2024 17:42
24	20240611-024	E2400647-001	Perchlorate6850c.lcm	1x		6/11/2024 17:48
25	20240611-025	E2400647-002	Perchlorate6850c.lcm	1x		6/11/2024 17:54
26	20240611-026	E2400647-003	Perchlorate6850c.lcm	1x		6/11/2024 17:59
27	20240611-027	E2400647-004	Perchlorate6850c.lcm	1x		6/11/2024 18:05
28	20240611-028	CCV	Perchlorate6850c.lcm	1x		6/11/2024 18:10
29	20240611-029	IB	Perchlorate6850c.lcm	1x		6/11/2024 18:16
30	20240611-030	E2400647-005	Perchlorate6850c.lcm	1x		6/11/2024 18:21
31	20240611-031	E2400647-006	Perchlorate6850c.lcm	1x		6/11/2024 18:27
32	20240611-032	E2400650-001	Perchlorate6850c.lcm	1x	DNU needs DL	6/11/2024 18:32
33	20240611-033	E2400650-002	Perchlorate6850c.lcm	1x	DNU needs DL	6/11/2024 18:38
34	20240611-034	E2400650-003	Perchlorate6850c.lcm	1x	DNU needs DL	6/11/2024 18:43
35	20240611-035	E2400650-004	Perchlorate6850c.lcm	1x	DNU RI possible C/O	6/11/2024 18:49
36	20240611-036	E2400650-005	Perchlorate6850c.lcm	1x	DNU RI possible C/O	6/11/2024 18:54
37	20240611-037	E2400650-006	Perchlorate6850c.lcm	1x		6/11/2024 19:00
38	20240611-038	CCV	Perchlorate6850c.lcm	1x		6/11/2024 19:06
39	20240611-039	IB	Perchlorate6850c.lcm	1x		6/11/2024 19:11
40			Perchlorate6850c.lcm	1x		

843806

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
41			Perchlorate6850c.lcm	1x		
42			Perchlorate6850c.lcm	1x		
43			Perchlorate6850c.lcm	1x		
44			Perchlorate6850c.lcm	1x		
45			Perchlorate6850c.lcm	1x		
46			Perchlorate6850c.lcm	1x		
47			Perchlorate6850c.lcm	1x		

843893

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240612-001	IB	Perchlorate6850c.lcm	1x		6/12/2024 11:05
2	20240612-002	LODV	Perchlorate6850c.lcm	1x		6/12/2024 11:11
3	20240612-003	ICS	Perchlorate6850c.lcm	1x	DNU out of range	6/12/2024 11:16
4	20240612-004	CCV	Perchlorate6850c.lcm	1x		6/12/2024 11:22
5	20240612-005	IB	Perchlorate6850c.lcm	1x		6/12/2024 11:27
6	20240612-006	E2400650-005	Perchlorate6850c.lcm	1x		6/12/2024 11:33
7	20240612-007	E2400650-004	Perchlorate6850c.lcm	1x		6/12/2024 11:38
8	20240612-008	E2400650-001 1000	Perchlorate6850c.lcm	10000x		6/12/2024 11:44
9	20240612-009	E2400650-003 1000	Perchlorate6850c.lcm	10000x		6/12/2024 11:50
10	20240612-010	E2400650-002 1000	Perchlorate6850c.lcm	10000x		6/12/2024 11:55
11	20240612-011	CCV	Perchlorate6850c.lcm	1x		6/12/2024 12:01
12	20240612-012	IB	Perchlorate6850c.lcm	1x		6/12/2024 12:06
13	20240612-013	ICS	Perchlorate6850c.lcm	1x		6/12/2024 14:07
14			Perchlorate6850c.lcm	1x		
15			Perchlorate6850c.lcm	1x		
16			Perchlorate6850c.lcm	1x		
17			Perchlorate6850c.lcm	1x		
18			Perchlorate6850c.lcm	1x		
19			Perchlorate6850c.lcm	1x		
20			Perchlorate6850c.lcm	1x		
21			Perchlorate6850c.lcm	1x		
22			Perchlorate6850c.lcm	1x		
23			Perchlorate6850c.lcm	1x		
24			Perchlorate6850c.lcm	1x		
25			Perchlorate6850c.lcm	1x		
26			Perchlorate6850c.lcm	1x		
27			Perchlorate6850c.lcm	1x		
28			Perchlorate6850c.lcm	1x		
29			Perchlorate6850c.lcm	1x		
30			Perchlorate6850c.lcm	1x		
31			Perchlorate6850c.lcm	1x		
32			Perchlorate6850c.lcm	1x		
33			Perchlorate6850c.lcm	1x		
34			Perchlorate6850c.lcm	1x		
35			Perchlorate6850c.lcm	1x		
36			Perchlorate6850c.lcm	1x		
37			Perchlorate6850c.lcm	1x		
38			Perchlorate6850c.lcm	1x		
39			Perchlorate6850c.lcm	1x		
40			Perchlorate6850c.lcm	1x		

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: Perchlorates

Service Request: E2400650
Date Analyzed: 6/11/24 17:04

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240611\20240611-016
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400310-01
Analysis Lot: 843806
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400310-01	296,251	3.45
Method Blank	EQ2400303-01	323,920	3.45
Lab Control Sample	EQ2400303-02	315,627	3.45

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: Perchlorates

Service Request: E2400650
Date Analyzed: 6/11/24 18:10

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240611\20240611-028
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400310-02
Analysis Lot: 843806
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400310-02	310,678	3.45
18CPTMW022R_060524	E2400650-006	333,149	3.45

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: Perchlorates

Service Request: E2400650
Date Analyzed: 6/11/24 19:06

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240611\20240611-038
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400310-03
Analysis Lot: 843806
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400310-03	320,617	3.45

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: Perchlorates

Service Request: E2400650
Date Analyzed: 6/12/24 11:22

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240612\20240612-004
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400311-01
Analysis Lot: 843893
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400311-01	255,160	3.45
18CPTMW022DW_060524	E2400650-005	281,440	3.45
18CPTMW035SW_060524	E2400650-004	234,309	3.46
MW5_060524	E2400650-001	257,746	3.45
18CPTMW08SW_060524	E2400650-003	295,366	3.45
18CPTMW08DW_060524	E2400650-002	292,335	3.45

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: Perchlorates

Service Request: E2400650
Date Analyzed: 6/12/24 12:01

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240612\20240612-011
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400311-02
Analysis Lot: 843893
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400311-02	280,076	3.45

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: Perchlorates

Service Request: E2400650
Date Analyzed: 6/11/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240611\20240611-016

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 843806
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.4	0.1460		4.2	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: Perchlorates

Service Request: E2400650
Date Analyzed: 6/11/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240611\20240611-028

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 843806
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.5	0.1460		4.7	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: Perchlorates

Service Request: E2400650
Date Analyzed: 6/11/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240611\20240611-038

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 843806
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.4	0.1460		4.2	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: Perchlorates

Service Request: E2400650
Date Analyzed: 6/12/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240612\20240612-004

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 843893
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.1	0.1460		1.5	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: Perchlorates

Service Request: E2400650
Date Analyzed: 6/12/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240612\20240612-011

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 843893
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.4	0.1460		3.9	NA	± 15 %	Average RF

Insight Report

Printed at 6/12/2024 2:52:01 PM

Method File: I:\LCMS01\DATA\20240611\20240611.lcm
Project File: I:\LCMS01\DATA\20240611\20240611.damlp

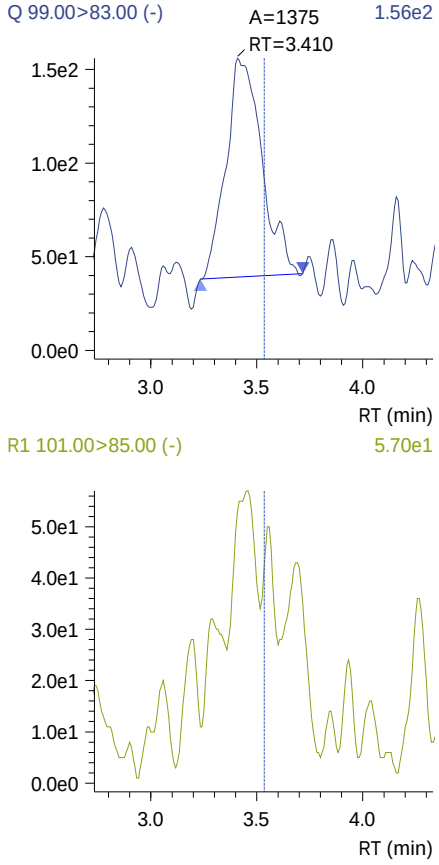
IB

Sample ID: IB
Date Acquired: 6/11/2024 4:47:34 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-013.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	302843	----	ng/mL	101.00 >85.00	0.00	23.50 -43.64
Sodium Perchlorate-18O4_IS	Auto	3.453	302843	302843	1.0000	ng/mL	----	----	

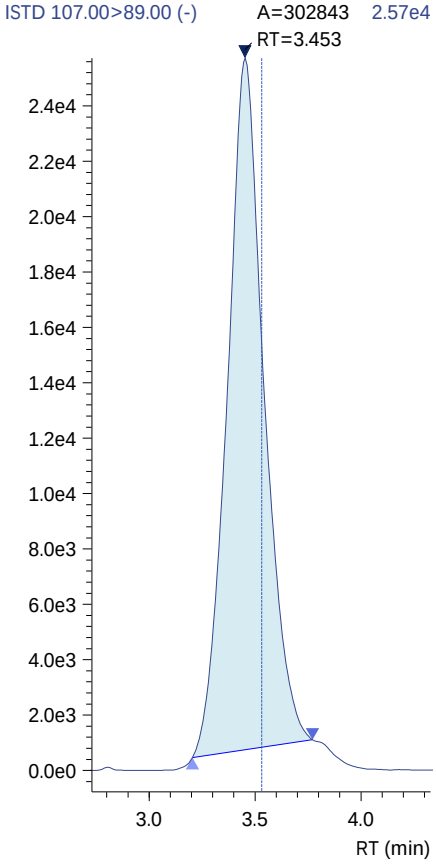
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 2:52:01 PM

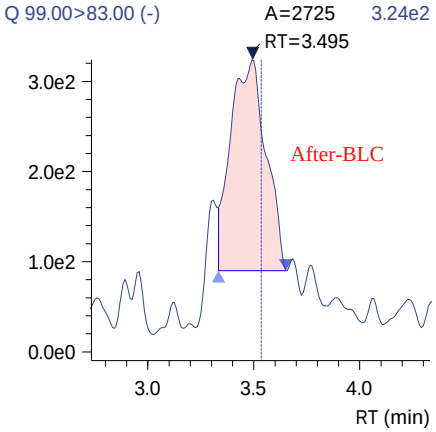
LODV

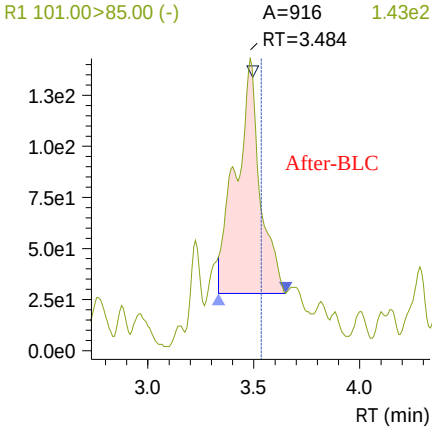
Sample ID: LODV
Date Acquired: 6/11/2024 4:53:05 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-014.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.495	2725	318567	0.0586	ng/mL	101.00 >85.00	33.60	23.50 -43.64
Sodium Perchlorate-18O4_IS	Auto	3.450	3185 67	318567	1.0000	ng/mL	----	----	

Perchlorate

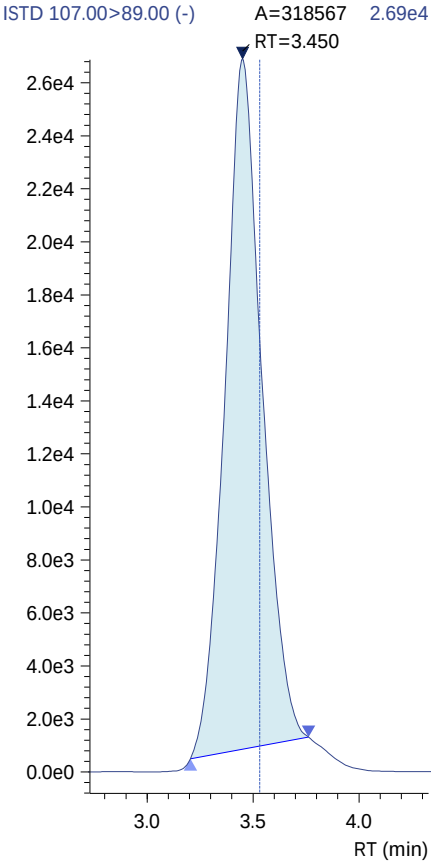
Conc 0.0586
R#1 33.60 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 2:53:01 PM

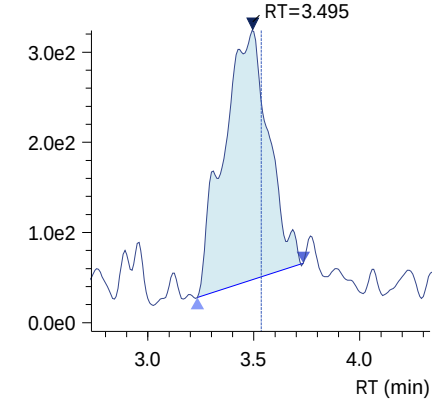
LODV

Sample ID: LODV
Date Acquired: 6/11/2024 4:53:05 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-014.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

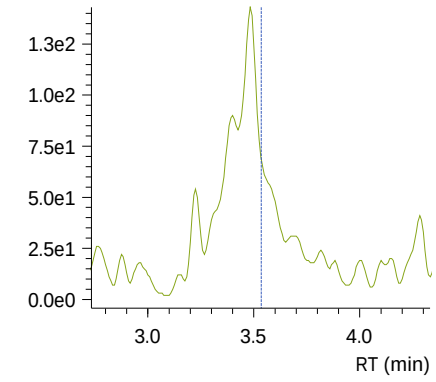
Perchlorate

Conc 0.0890
R#1 0.00 (34.10)

Q 99.00>83.00 (-) A=4141 3.24e2 RT=3.495



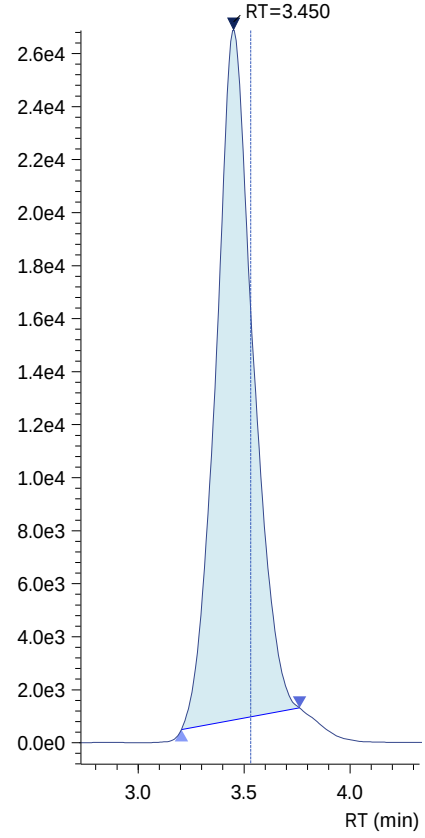
R1 101.00>85.00 (-) 1.43e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=318567 2.69e4 RT=3.450



Insight Report

Printed at 6/12/2024 2:52:01 PM

CCV

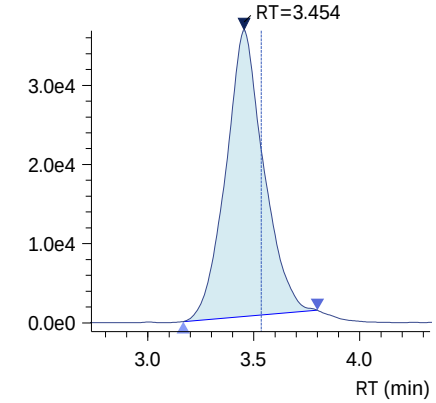
Sample ID: CCV
Date Acquired: 6/11/2024 5:04:09 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-016.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.454	4507 70	296251	10.4 214	ng/mL	101.00 >85.00	35.32	23.50 -43.64
Sodium Perchlorate-18O4_IS	Auto	3.452	2962 51	296251	1.0000	ng/mL	----	----	

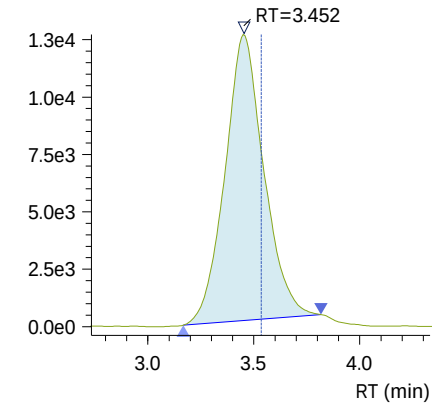
Perchlorate

Conc 10.4214
R#1 35.32 (34.10)

Q 99.00>83.00 (-) A=450770 3.69e4 RT=3.454



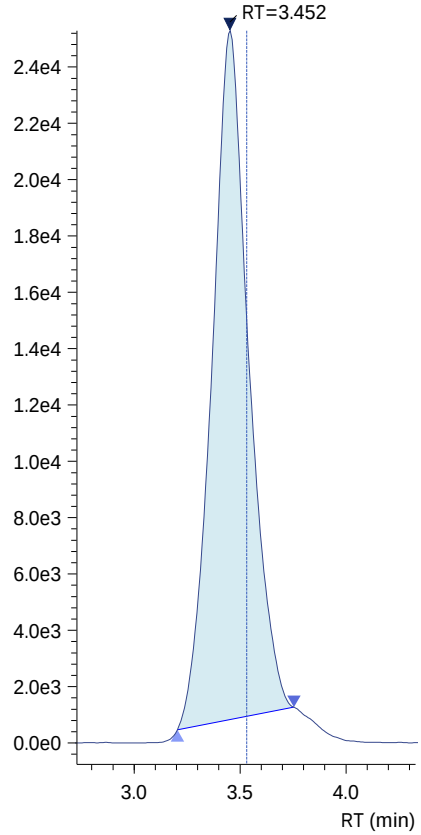
R1 101.00>85.00 (-) A=159227 1.27e4 RT=3.452



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=296251 2.53e4 RT=3.452



Insight Report

Printed at 6/12/2024 2:52:01 PM

IB

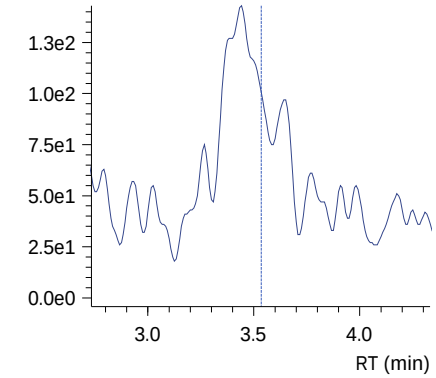
Sample ID: IB
Date Acquired: 6/11/2024 5:09:41 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-017.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	299100	----	ng/mL	101.00 >85.00	0.00	23.50 -43.64
Sodium Perchlorate-18O4_IS	Auto	3.452	299100	299100	1.0000	ng/mL	----	----	

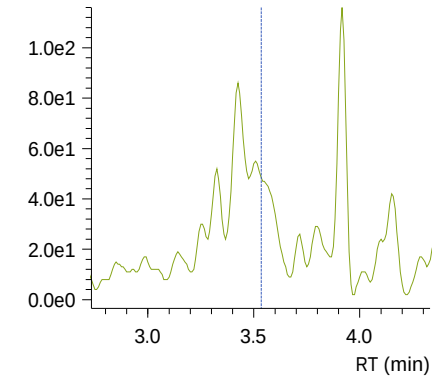
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 1.43e2



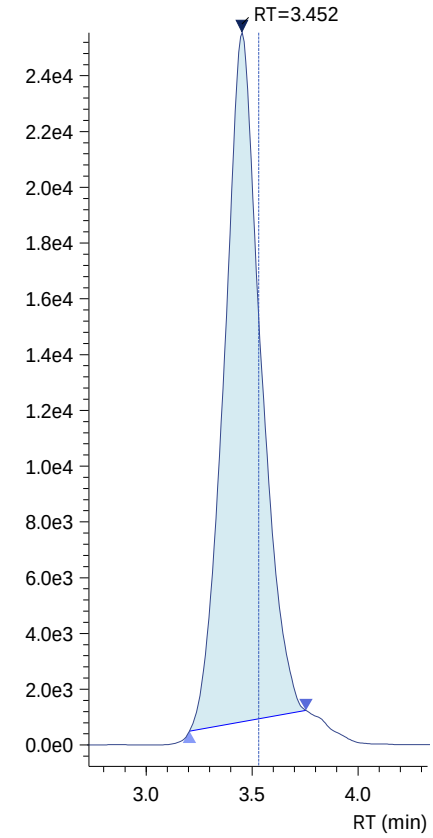
R1 101.00>85.00 (-) 1.16e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=299100 2.55e4



Insight Report

Printed at 6/12/2024 2:52:01 PM

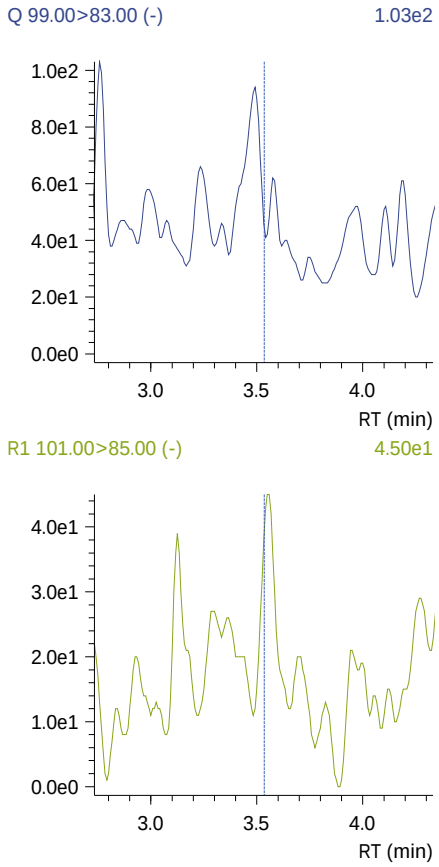
EQ2400303-001MB

Sample ID: EQ2400303-001MB
Date Acquired: 6/11/2024 5:15:15 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-018.lcd
Vial: 19 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	323920	----	ng/mL	101.00 >85.00	0.00	23.50 -43.64
Sodium Perchlorate-18O4_IS	Auto	3.453	323920	323920	1.0000	ng/mL	----	----	

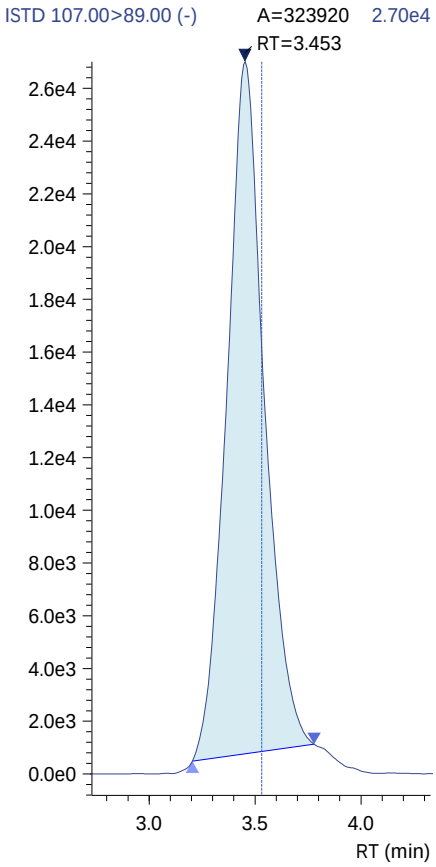
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 2:52:01 PM

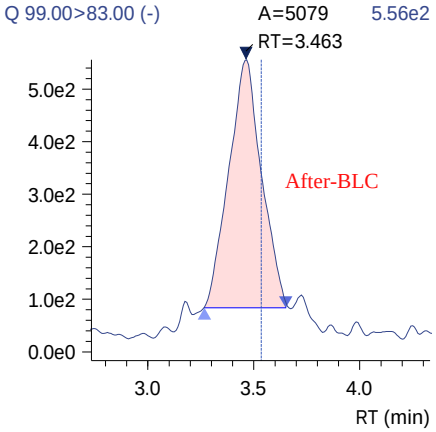
EQ2400303-002LCS

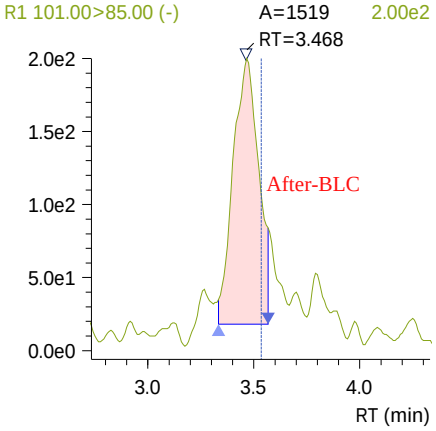
Sample ID: EQ2400303-002LCS
Date Acquired: 6/11/2024 5:20:46 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-019.lcd
Vial: 20 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.463	5079	315627	0.1102	ng/mL	101.00 >85.00	29.91	23.50 -43.64
Sodium Perchlorate-18O4_IS	Auto	3.450	315627	315627	1.0000	ng/mL	----	----	

Perchlorate

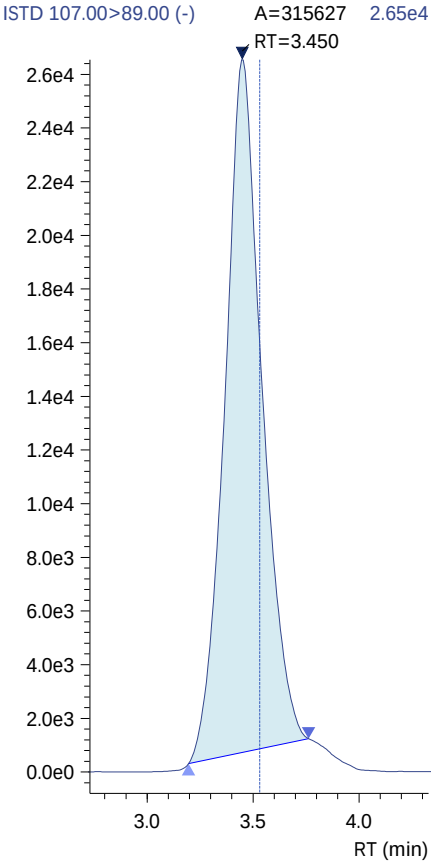
Conc 0.1102
R#1 29.91 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

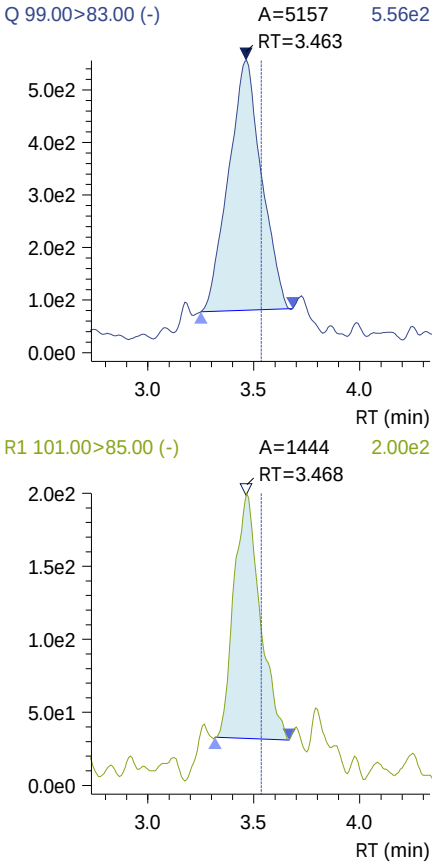
Printed at 6/12/2024 2:53:01 PM

EQ2400303-002LCS

Sample ID: EQ2400303-002LCS
Date Acquired: 6/11/2024 5:20:46 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-019.lcd
Vial: 20 | Inj. Volume: 10.0000uL | Tray: 1

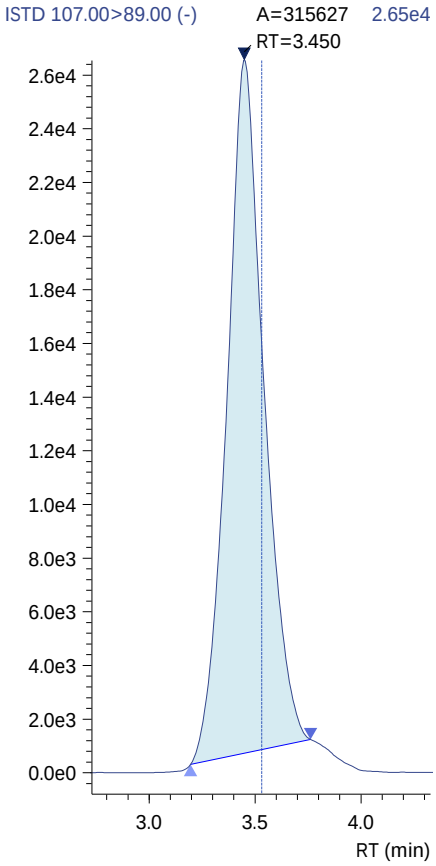
Perchlorate

Conc 0.1119
R#1 28.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 2:52:01 PM

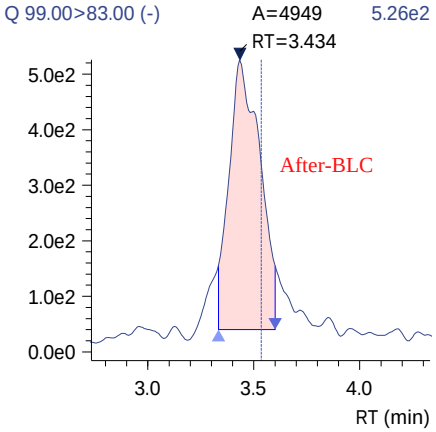
EQ2400303-003ICS

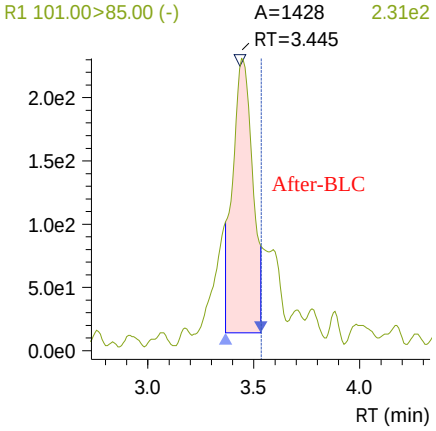
Sample ID: EQ2400303-003ICS
Date Acquired: 6/11/2024 5:26:17 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-020.lcd
Vial: 21 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.434	4949	311800	0.1087	ng/mL	101.00 >85.00	28.85	23.50 -43.64
Sodium Perchlorate-18O4_IS	Auto	3.451	311800	311800	1.0000	ng/mL	----	----	

Perchlorate

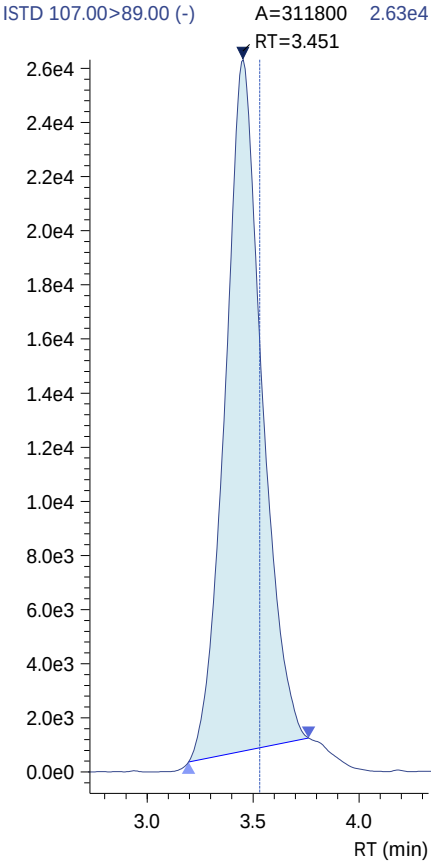
Conc 0.1087
R#1 28.85 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

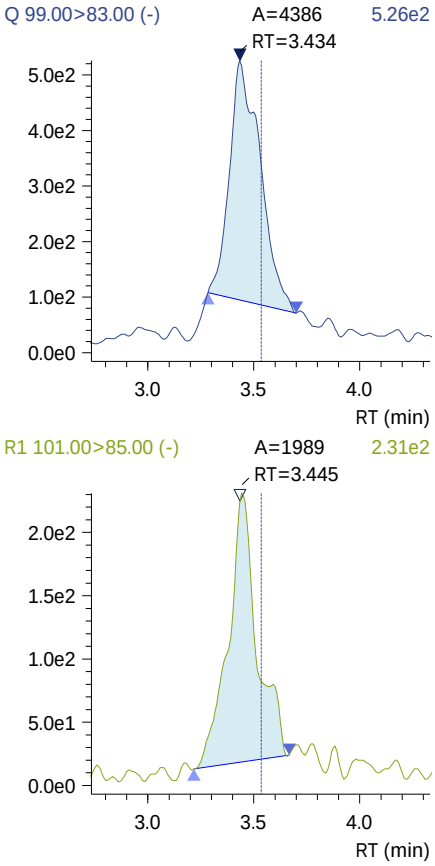
Printed at 6/12/2024 2:53:01 PM

EQ2400303-003ICS

Sample ID: EQ2400303-003ICS
Date Acquired: 6/11/2024 5:26:17 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-020.lcd
Vial: 21 | Inj. Volume: 10.0000uL | Tray: 1

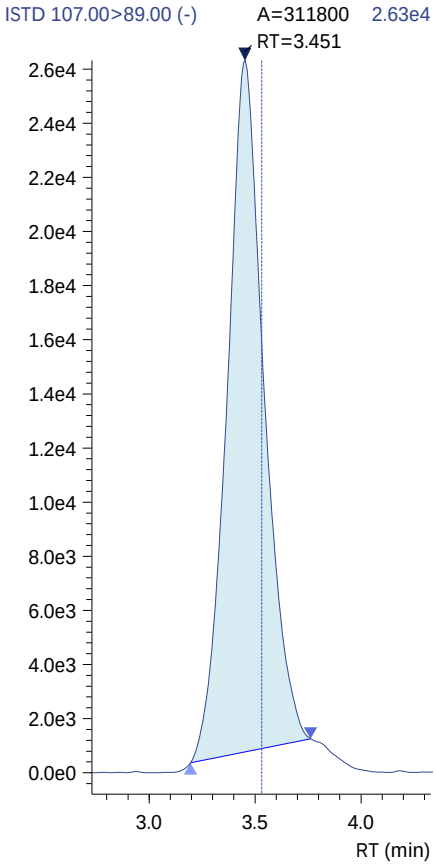
Perchlorate

Conc 0.0963
R#1 45.34 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 2:52:01 PM

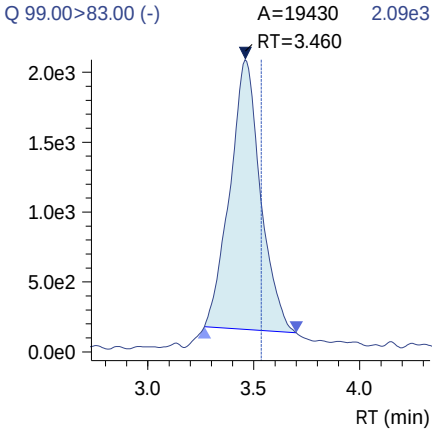
EQ2400303-004MS

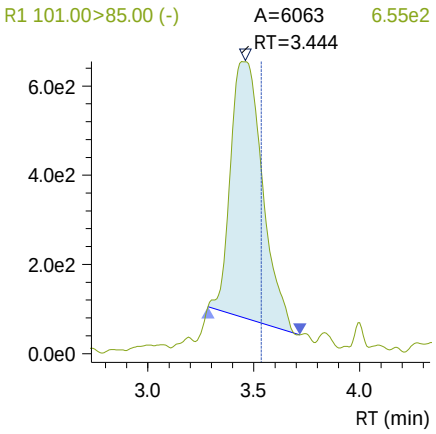
Sample ID: EQ2400303-004MS
Date Acquired: 6/11/2024 5:31:52 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-021.lcd
Vial: 22 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.460	19430	400634	0.3322	ng/mL	101.00 >85.00	31.20	23.50 -43.64
Sodium Perchlorate-18O4_IS	Auto	3.458	4006 34	400634	1.0000	ng/mL	----	----	

Perchlorate

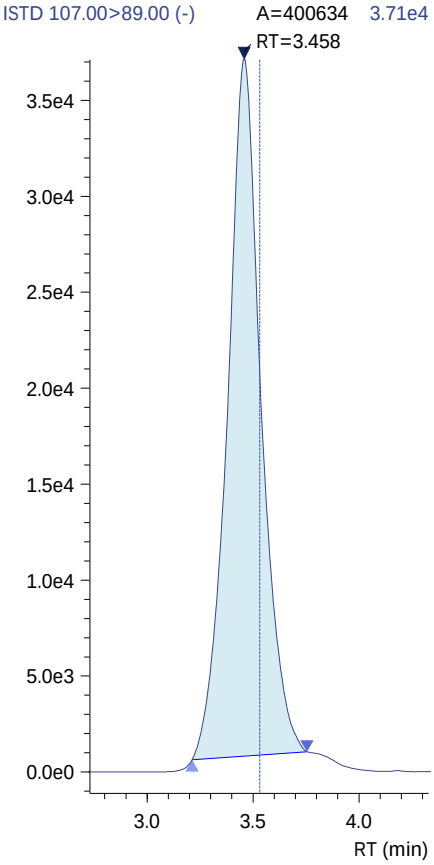
Conc 0.3322
R#1 31.20 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 2:52:01 PM

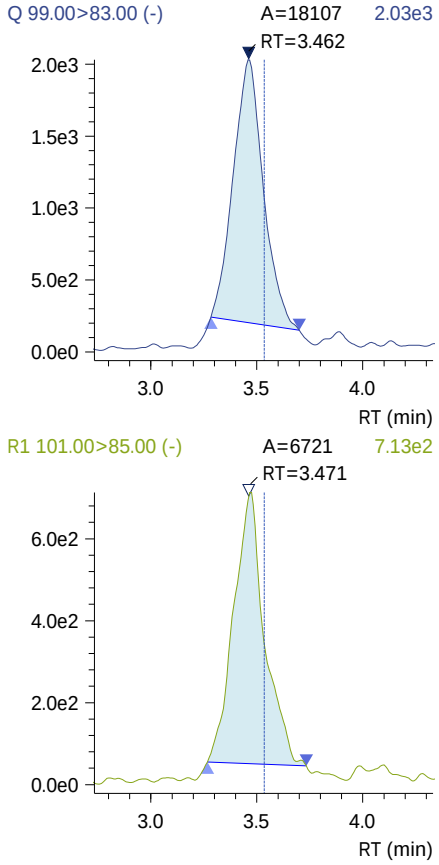
EQ2400303-005DMS

Sample ID: EQ2400303-005DMS
Date Acquired: 6/11/2024 5:37:25 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-022.lcd
Vial: 23 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.462	18107	408025	0.3039	ng/mL	101.00 >85.00	37.12	23.50 -43.64
Sodium Perchlorate-18O4_IS	Auto	3.457	408025	408025	1.0000	ng/mL	----	----	

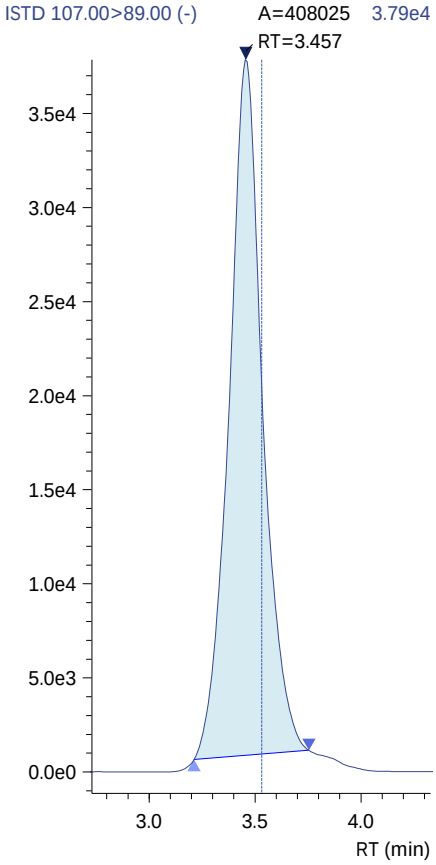
Perchlorate

Conc 0.3039
R#1 37.12 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 2:52:01 PM

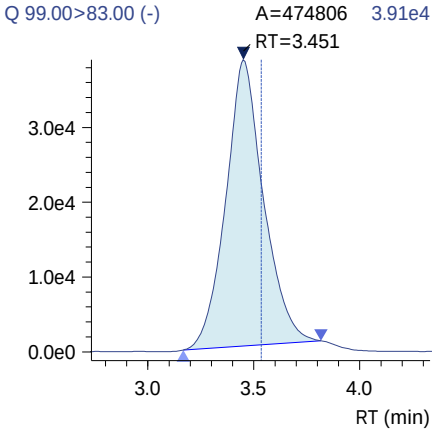
CCV

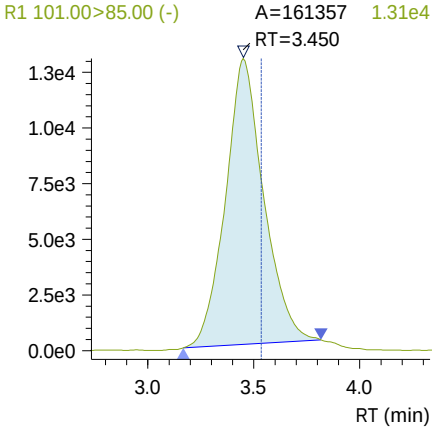
Sample ID: CCV
Date Acquired: 6/11/2024 6:10:43 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-028.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.451	474806	310678	10.4674	ng/mL	101.00 >85.00	33.98	23.50 -43.64
Sodium Perchlorate-18O4_IS	Auto	3.452	310678	310678	1.0000	ng/mL	----	----	

Perchlorate

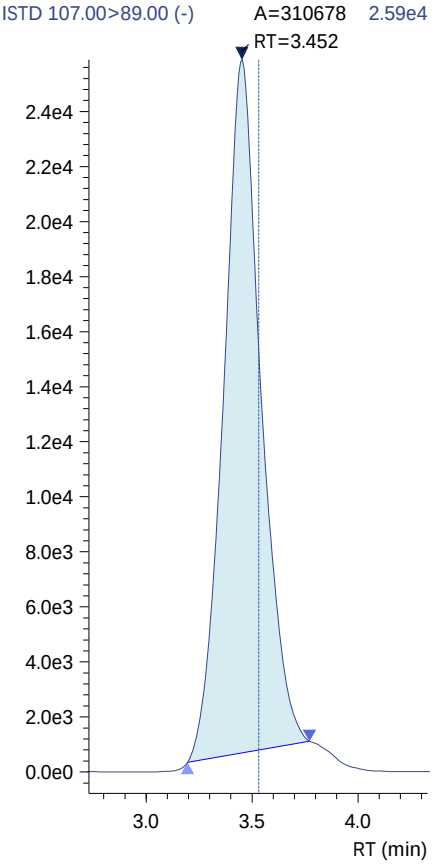
Conc 10.4674
R#1 33.98 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 2:52:01 PM

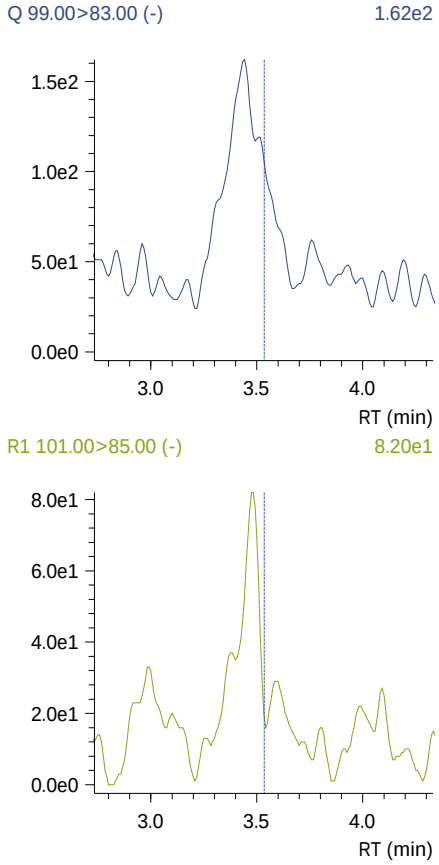
IB

Sample ID: IB
Date Acquired: 6/11/2024 6:16:15 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-029.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	319018	----	ng/mL	101.00 >85.00	0.00	23.50 -43.64
Sodium Perchlorate-18O4_IS	Auto	3.450	319018	319018	1.0000	ng/mL	----	----	

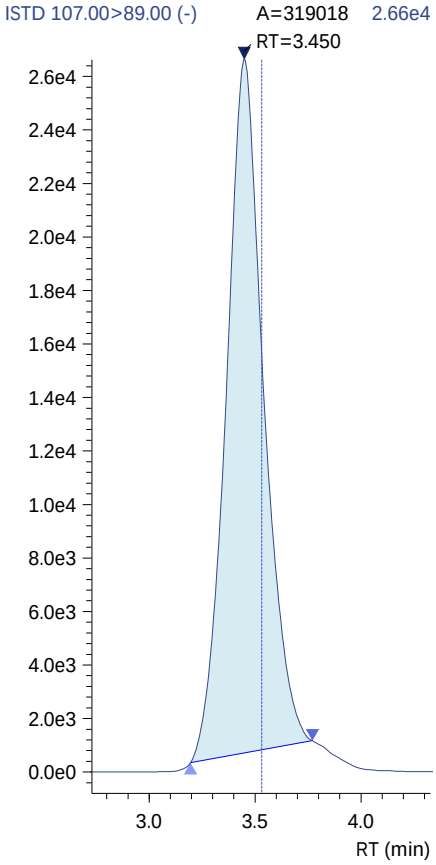
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 2:52:01 PM

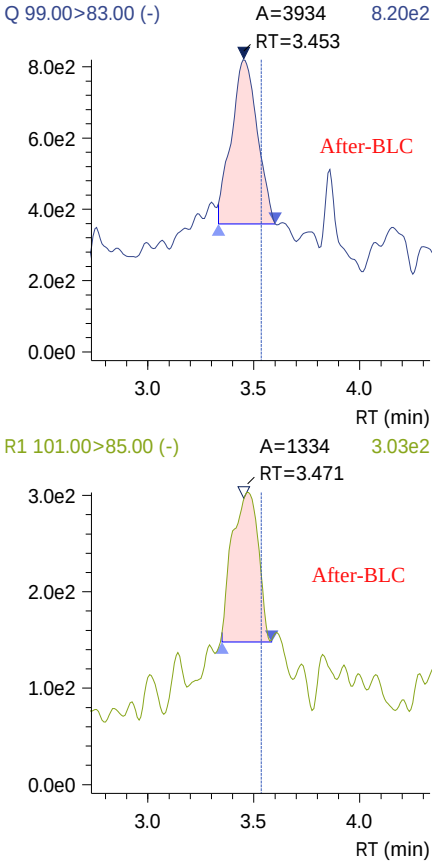
E2400650-006

Sample ID: E2400650-006
Date Acquired: 6/11/2024 7:00:28 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-037.lcd
Vial: 36 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.453	3934	333149	0.0809	ng/mL	101.00 >85.00	33.90	23.50 -43.64
Sodium Perchlorate-18O4_IS	Auto	3.449	333149	333149	1.0000	ng/mL	----	----	

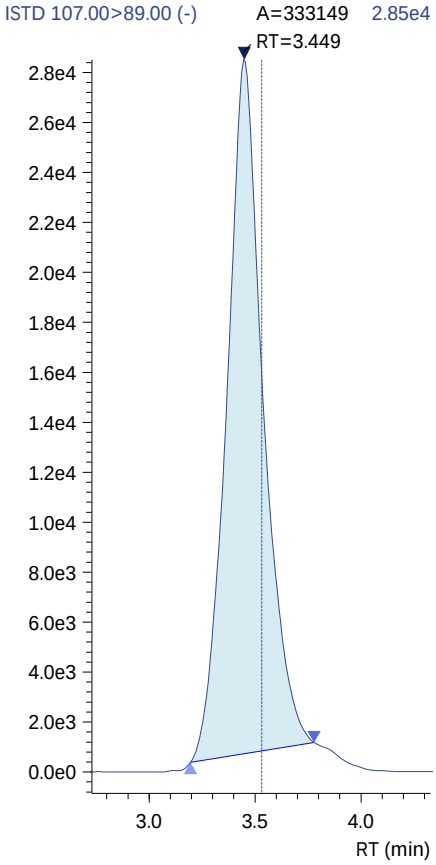
Perchlorate

Conc 0.0809
R#1 33.90 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 2:53:01 PM

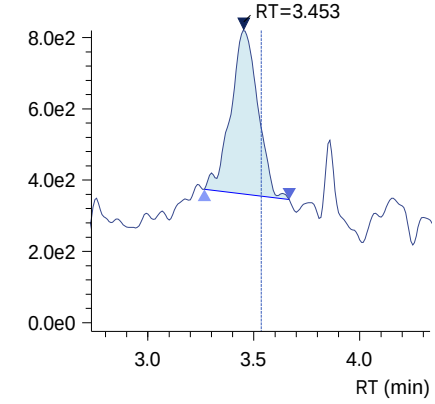
E2400650-006

Sample ID: E2400650-006
Date Acquired: 6/11/2024 7:00:28 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-037.lcd
Vial: 36 | Inj. Volume: 10.0000uL | Tray: 1

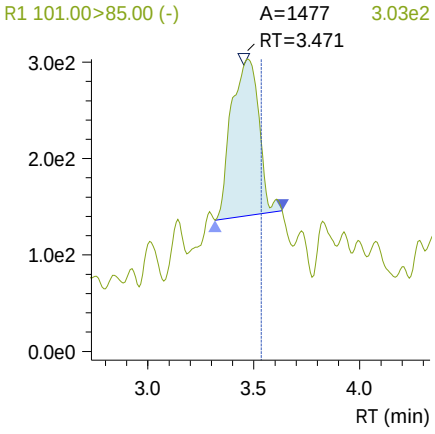
Perchlorate

Conc 0.0841
R#1 36.10 (34.10)

Q 99.00>83.00 (-) A=4090 8.20e2



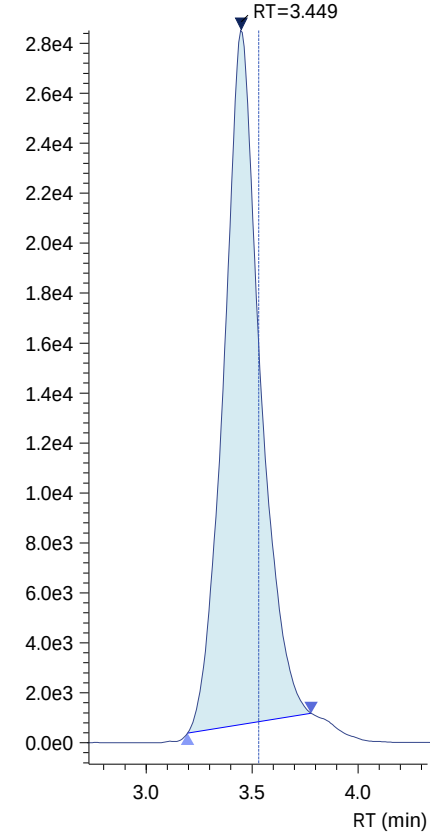
R1 101.00>85.00 (-) A=1477 3.03e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=333149 2.85e4



Insight Report

Printed at 6/12/2024 2:52:01 PM

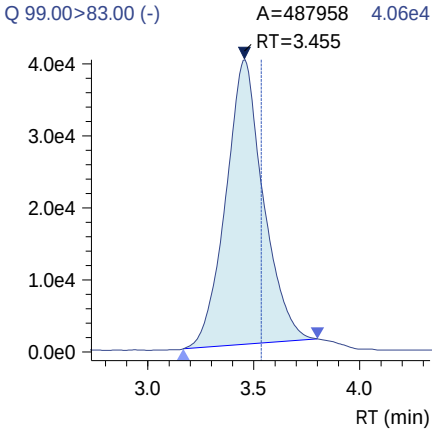
CCV

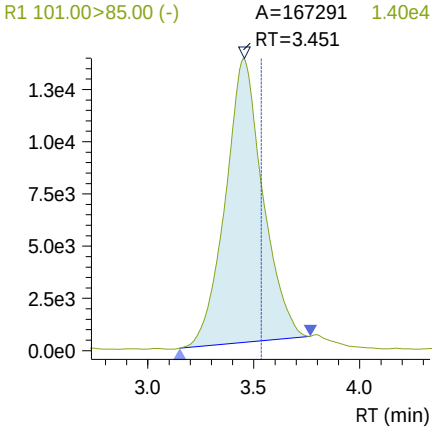
Sample ID: CCV
Date Acquired: 6/11/2024 7:06:01 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-038.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.455	487958	320617	10.4239	ng/mL	101.00 >85.00	34.28	23.50 -43.64
Sodium Perchlorate-18O4_IS	Auto	3.449	320617	320617	1.0000	ng/mL	----	----	

Perchlorate

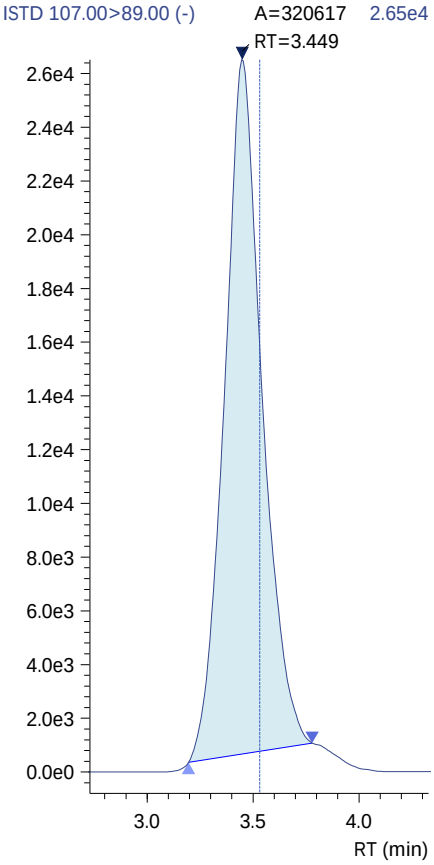
Conc 10.4239
R#1 34.28 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 2:52:01 PM

IB

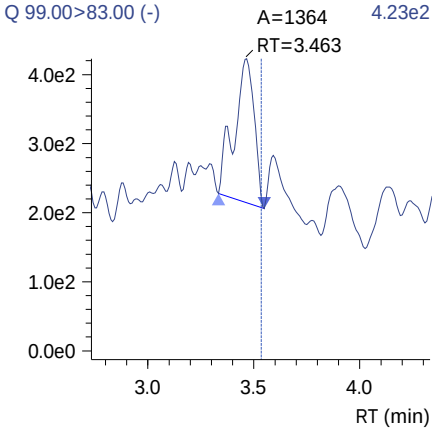
Sample ID: IB
Date Acquired: 6/11/2024 7:11:31 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-039.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	328262	----	ng/mL	101.00 >85.00	0.00	23.50 -43.64
Sodium Perchlorate-18O4_IS	Auto	3.449	328262	328262	1.0000	ng/mL	----	----	

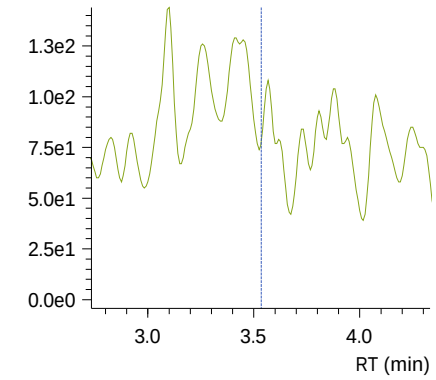
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 4.23e2



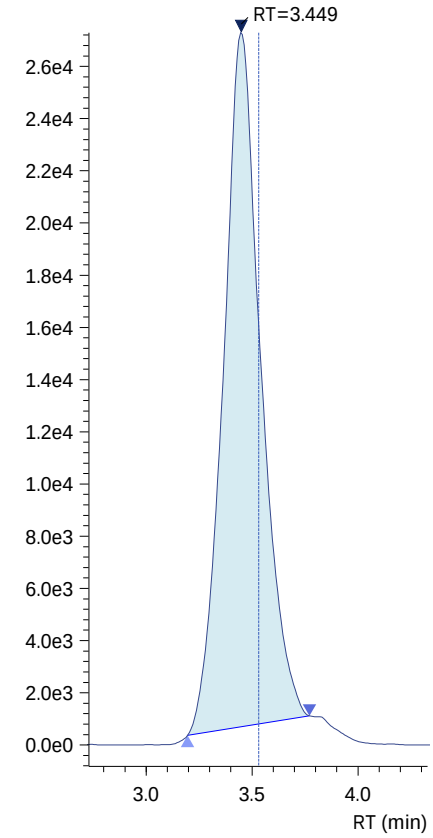
R1 101.00>85.00 (-) 1.44e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=328262 2.73e4



Insight Report

Printed at 6/12/2024 2:54:13 PM

Method File: I:\LCMS01\DATA\20240612\20240612.lcm
Project File: I:\LCMS01\DATA\20240612\20240612.damlp

IB

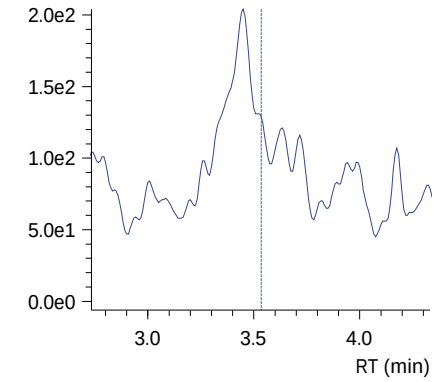
Sample ID: IB
Date Acquired: 6/12/2024 11:05:38 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240612\20240612-001.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	239599	----	ng/mL	101.00 >85.00	0.00	23.50 -43.64
Sodium Perchlorate-18O4_IS	Auto	3.459	239599	239599	1.0000	ng/mL	----	----	

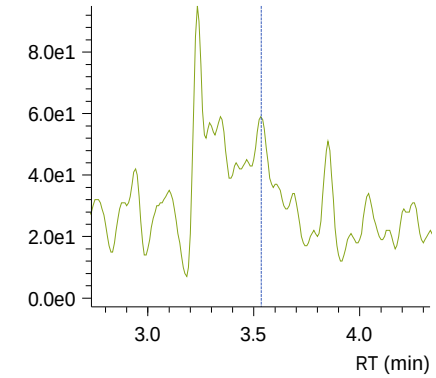
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 2.04e2



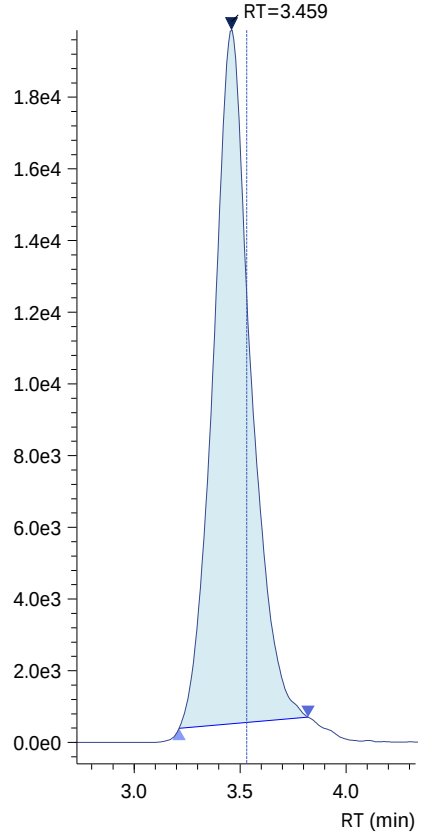
R1 101.00>85.00 (-) 9.50e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=239599 1.99e4
RT=3.459



Insight Report

Printed at 6/12/2024 2:54:13 PM

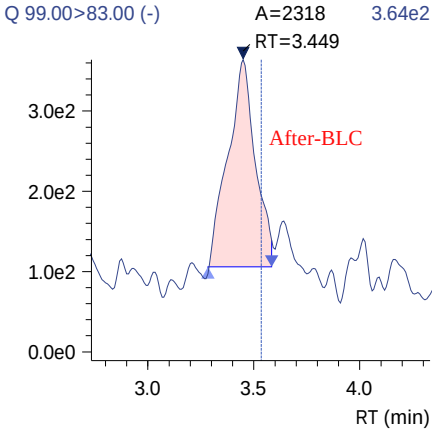
LODV

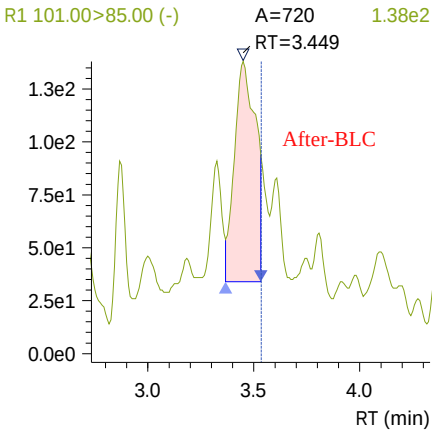
Sample ID: LODV
Date Acquired: 6/12/2024 11:11:13 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240612\20240612-002.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.449	2318	277373	0.0572	ng/mL	101.00 >85.00	31.04	23.50 -43.64
Sodium Perchlorate-18O4_IS	Auto	3.458	2773 73	277373	1.0000	ng/mL	----	----	

Perchlorate

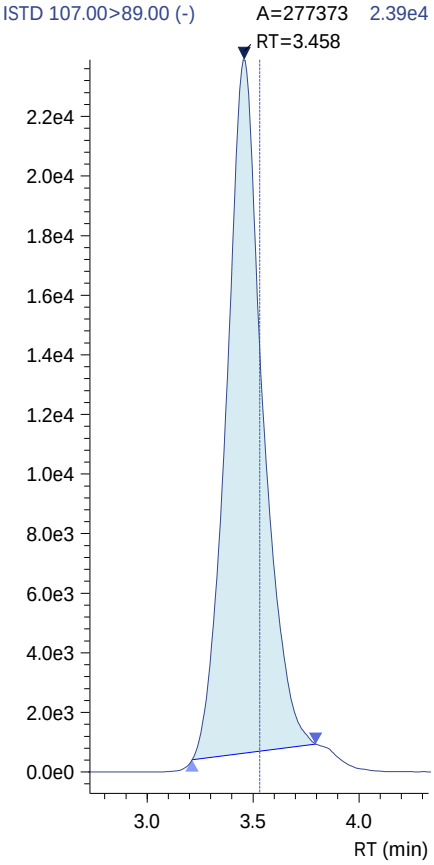
Conc 0.0572
R#1 31.04 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

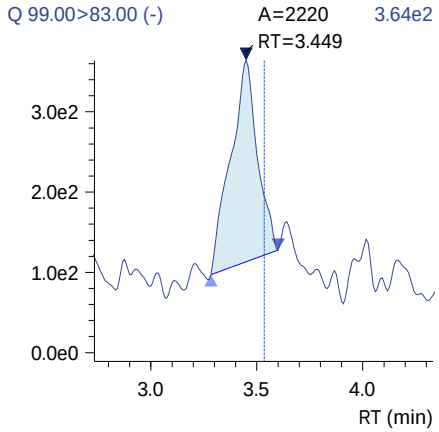
Printed at 6/12/2024 2:54:52 PM

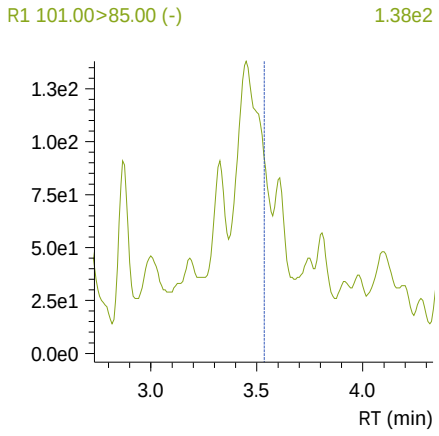
LODV

Sample ID: LODV
Date Acquired: 6/12/2024 11:11:13 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240612\20240612-002.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

Perchlorate

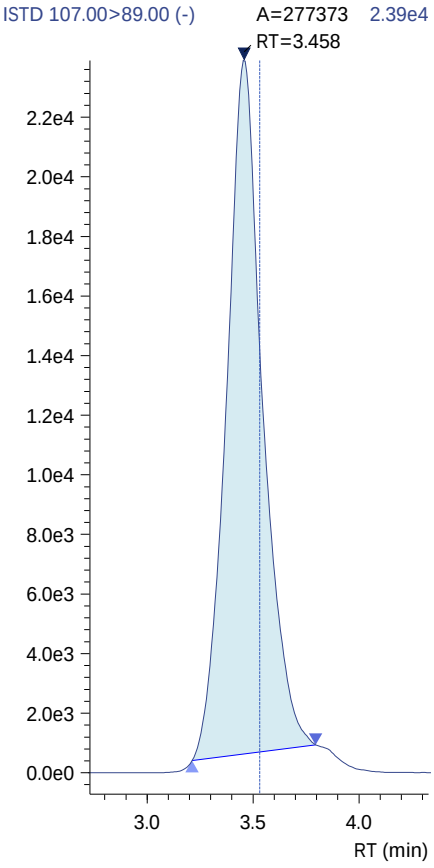
Conc 0.0548
R#1 0.00 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 2:54:13 PM

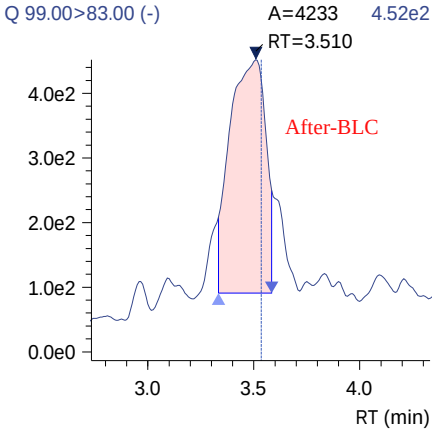
ICS

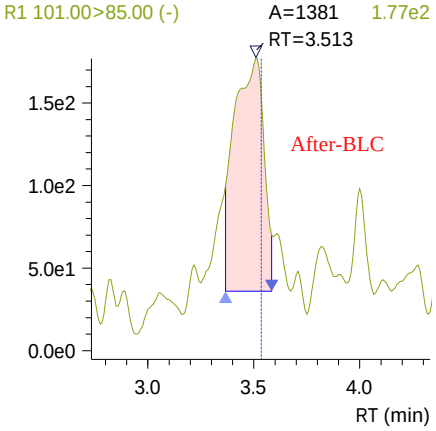
Sample ID: ICS
Date Acquired: 6/12/2024 2:07:48 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240612\20240612-013.lcd
Vial: 16 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.510	4233	269833	0.1075	ng/mL	101.00 >85.00	32.61	23.50 -43.64
Sodium Perchlorate-18O4_IS	Auto	3.458	269833	269833	1.0000	ng/mL	----	----	

Perchlorate

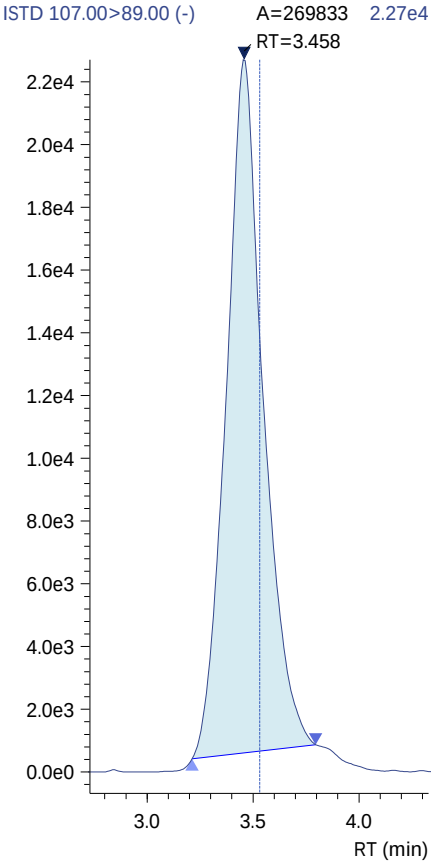
Conc 0.1075
R#1 32.61 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 2:54:52 PM

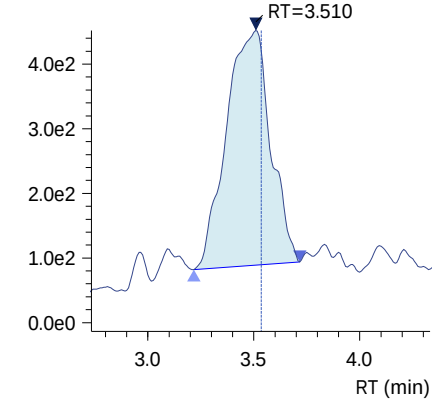
ICS

Sample ID: ICS
Date Acquired: 6/12/2024 2:07:48 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240612\20240612-013.lcd
Vial: 16 | Inj. Volume: 10.0000uL | Tray: 1

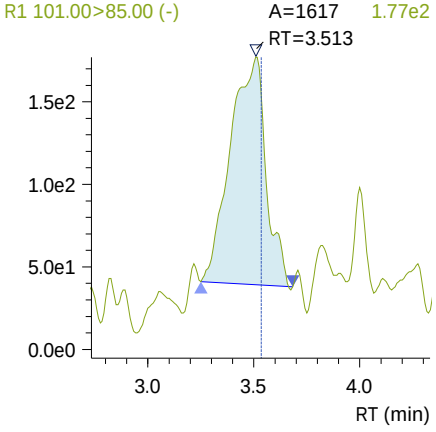
Perchlorate

Conc 0.1338
R#1 30.67 (34.10)

Q 99.00>83.00 (-) A=5272 4.52e2



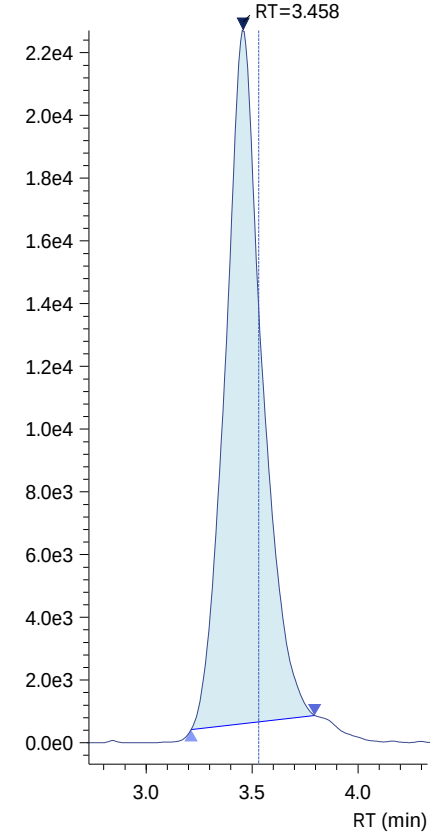
R1 101.00>85.00 (-) A=1617 1.77e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=269833 2.27e4



Insight Report

Printed at 6/12/2024 2:54:13 PM

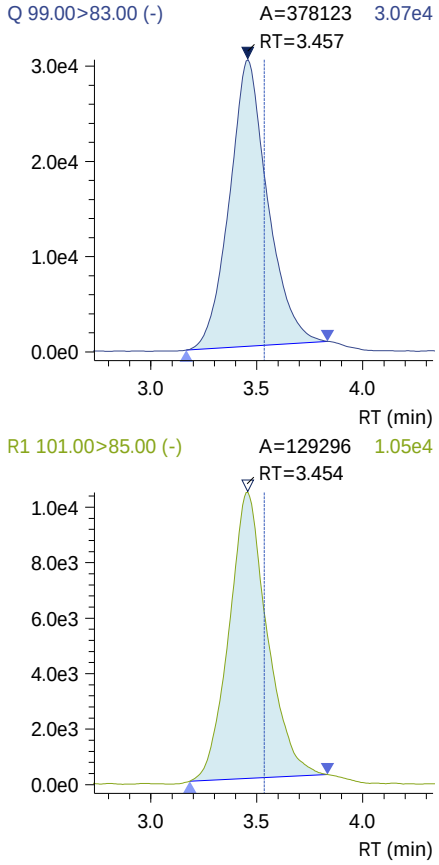
CCV

Sample ID: CCV
Date Acquired: 6/12/2024 11:22:22 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240612\20240612-004.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.457	3781 23	255160	10.1 497	ng/mL	101.00 >85.00	34.19	23.50 -43.64
Sodium Perchlorate-18O4_IS	Auto	3.451	2551 60	255160	1.0000	ng/mL	----	----	

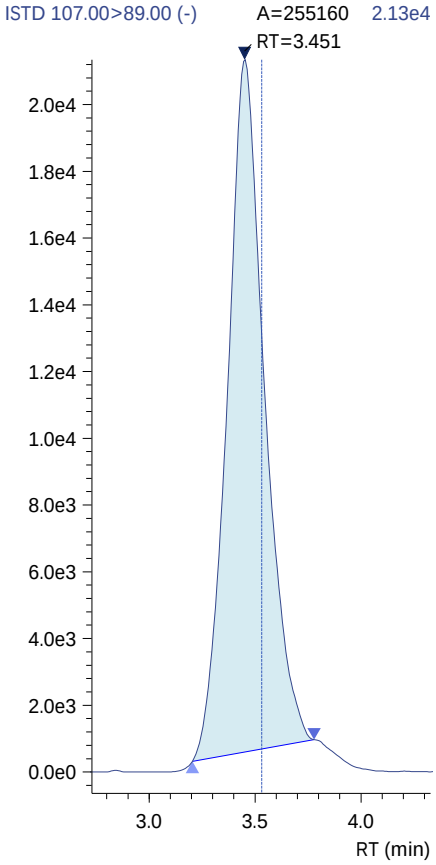
Perchlorate

Conc 10.1497
R#1 34.19 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 2:54:13 PM

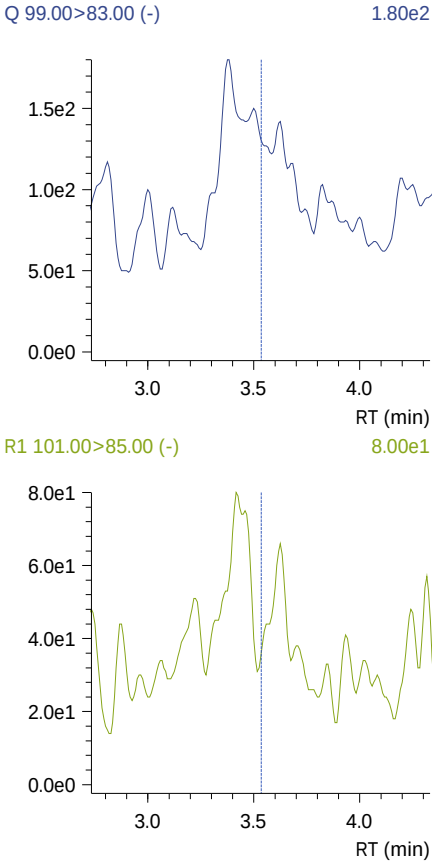
IB

Sample ID: IB
Date Acquired: 6/12/2024 11:27:53 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240612\20240612-005.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	262972	----	ng/mL	101.00 >85.00	0.00	23.50 -43.64
Sodium Perchlorate-18O4_IS	Auto	3.452	262972	262972	1.0000	ng/mL	----	----	

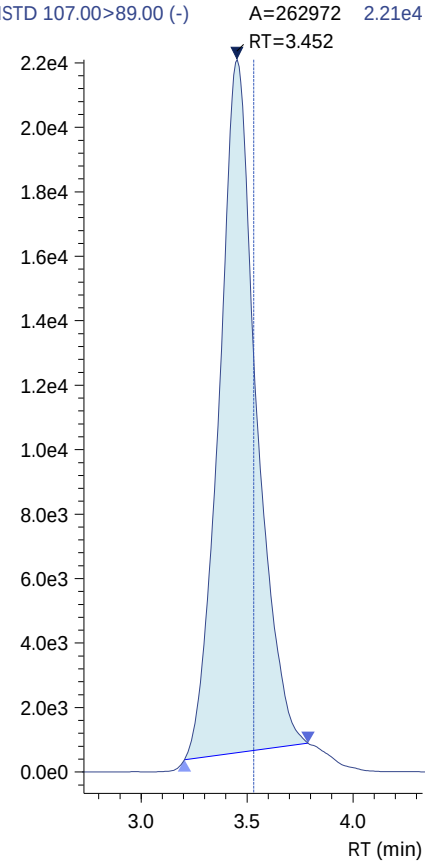
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 2:54:13 PM

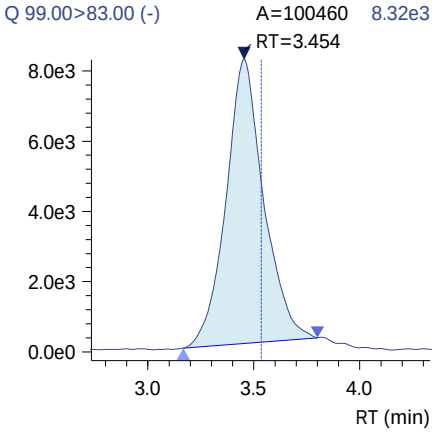
E2400650-001 10000x

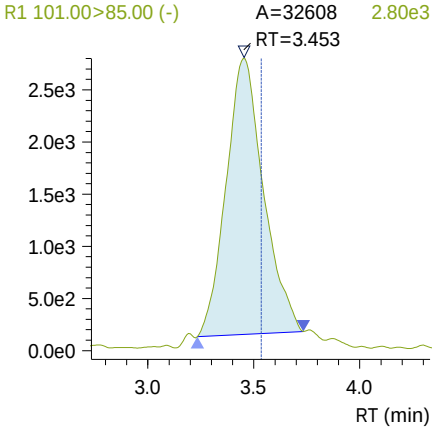
Sample ID: E2400650-001 10000x
Date Acquired: 6/12/2024 11:44:32 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240612\20240612-008.lcd
Vial: 31 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.454	100460	257746	2.6695	ng/mL	101.00 >85.00	32.46	23.50 -43.64
Sodium Perchlorate-18O4_IS	Auto	3.451	257746	257746	1.0000	ng/mL	----	----	

Perchlorate

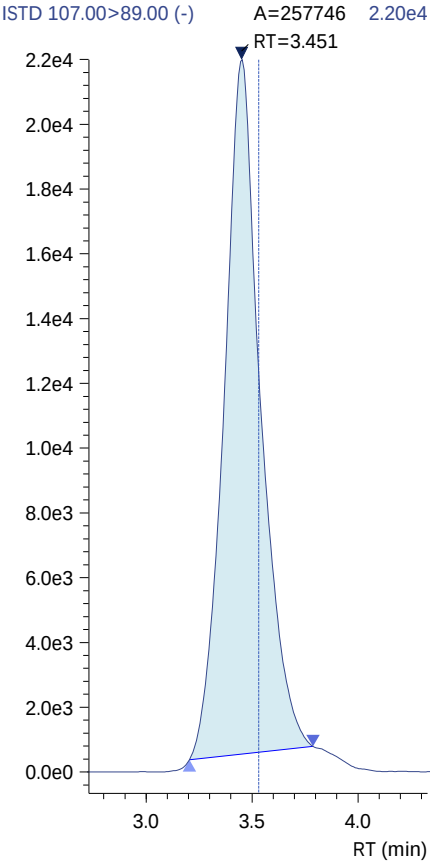
Conc 2.6695
R#1 32.46 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 2:54:13 PM

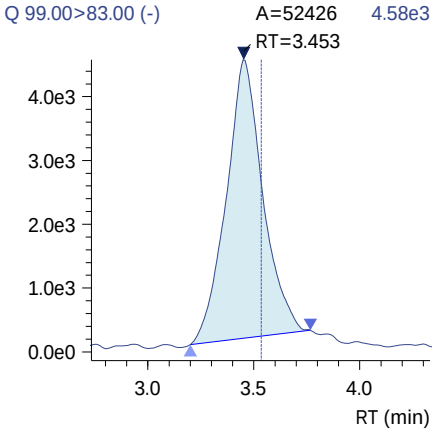
E2400650-002 10000x

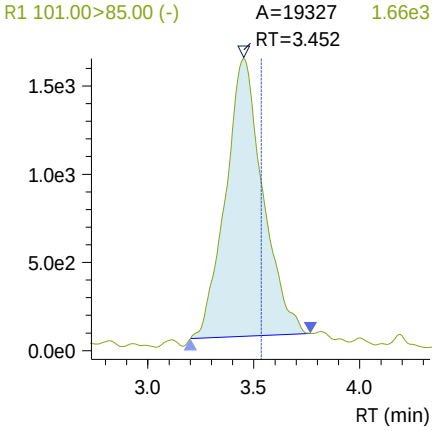
Sample ID: E2400650-002 10000x
Date Acquired: 6/12/2024 11:55:36 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240612\20240612-010.lcd
Vial: 32 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.453	52426	292335	1.2283	ng/mL	101.00 >85.00	36.87	23.50 -43.64
Sodium Perchlorate-18O4_IS	Auto	3.450	2923 35	292335	1.0000	ng/mL	----	----	

Perchlorate

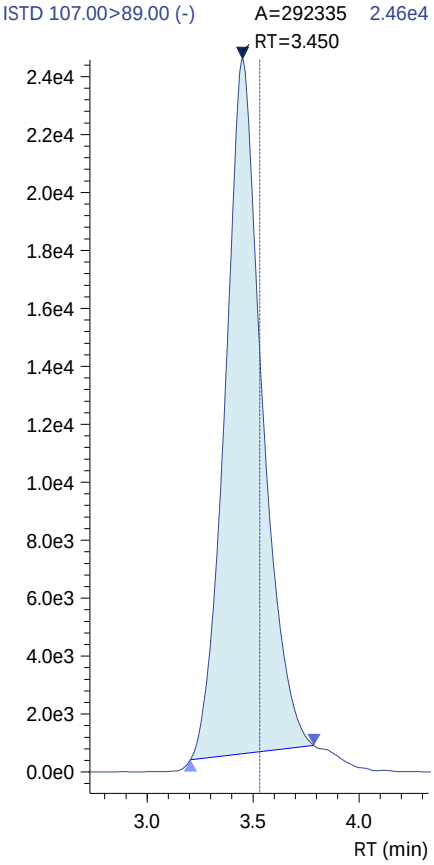
Conc 1.2283
R#1 36.87 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 2:54:13 PM

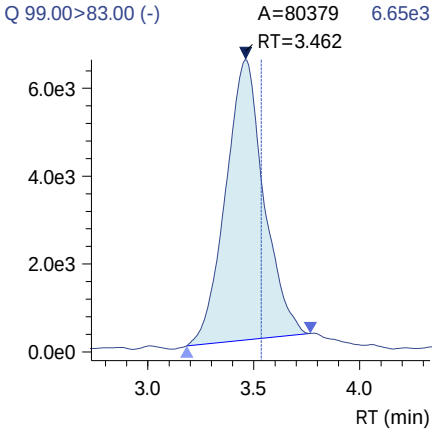
E2400650-003 10000x

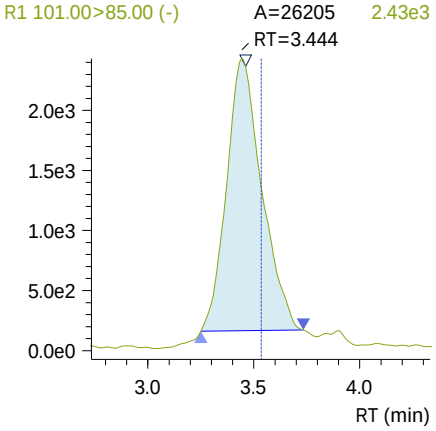
Sample ID: E2400650-003 10000x
Date Acquired: 6/12/2024 11:50:05 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240612\20240612-009.lcd
Vial: 33 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.462	80379	295366	1.8639	ng/mL	101.00 >85.00	32.60	23.50 -43.64
Sodium Perchlorate-18O4_IS	Auto	3.450	2953 66	295366	1.0000	ng/mL	----	----	

Perchlorate

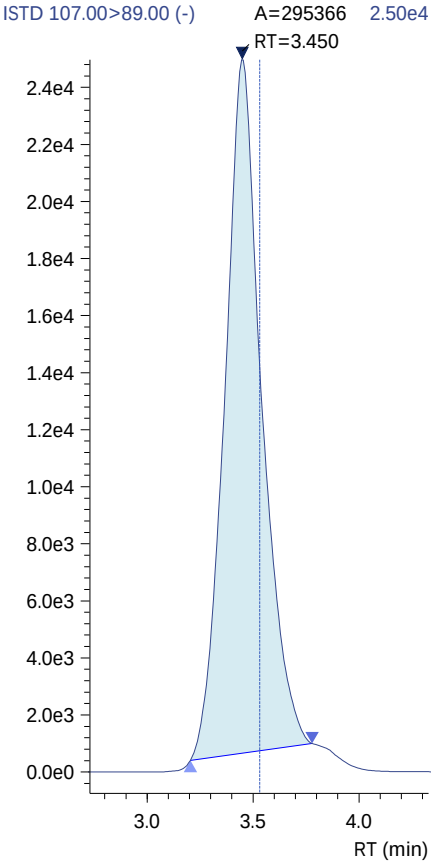
Conc 1.8639
R#1 32.60 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 2:54:13 PM

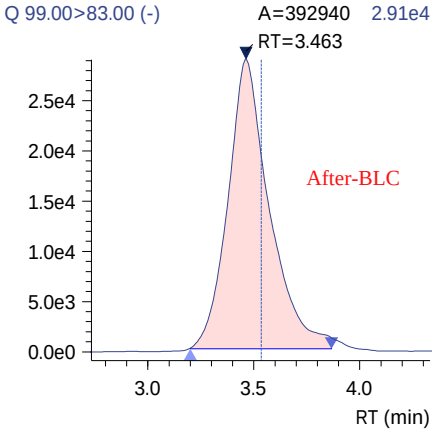
E2400650-004

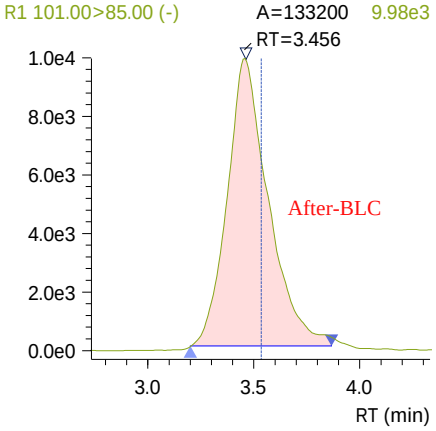
Sample ID: E2400650-004
Date Acquired: 6/12/2024 11:38:58 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240612\20240612-007.lcd
Vial: 34 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.463	392940	234309	11.4860	ng/mL	101.00 >85.00	33.90	23.50 -43.64
Sodium Perchlorate-18O4_IS	Auto	3.462	234309	234309	1.0000	ng/mL	----	----	

Perchlorate

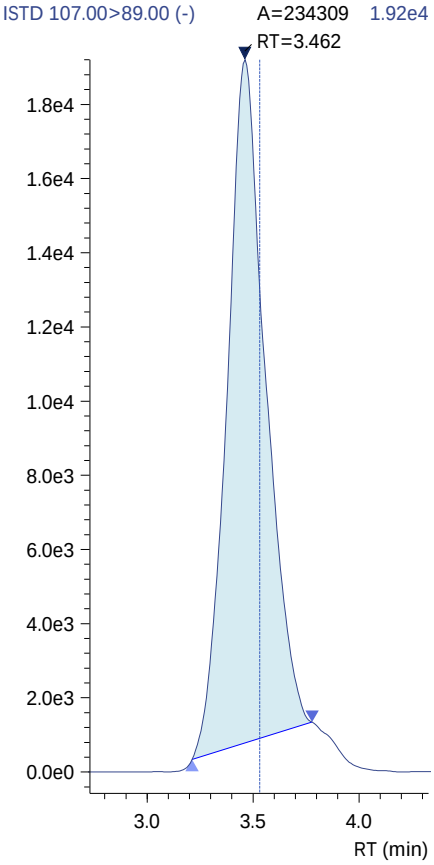
Conc 11.4860
R#1 33.90 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 2:54:52 PM

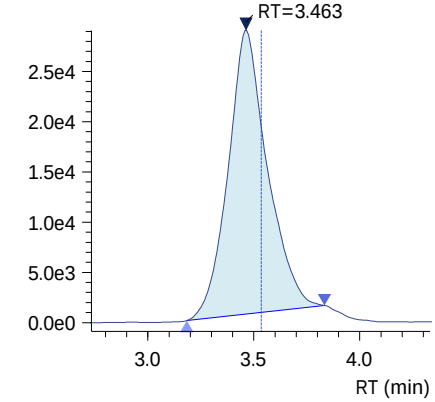
E2400650-004

Sample ID: E2400650-004
Date Acquired: 6/12/2024 11:38:58 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240612\20240612-007.lcd
Vial: 34 | Inj. Volume: 10.0000uL | Tray: 1

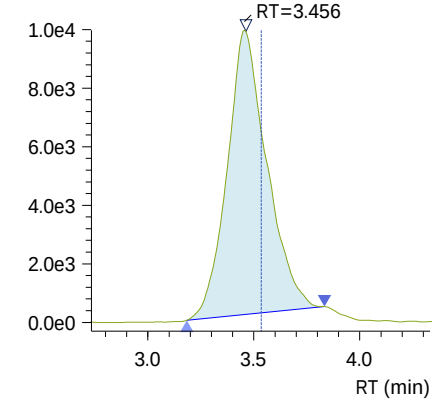
Perchlorate

Conc 10.6556
R#1 34.72 (34.10)

Q 99.00>83.00 (-) A=364533 2.91e4



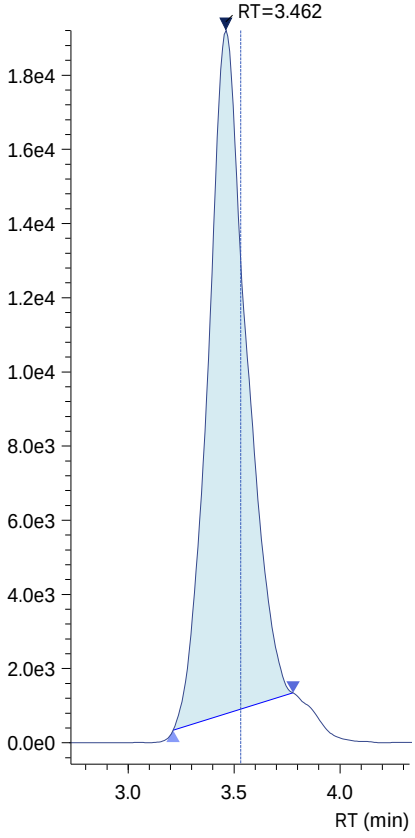
R1 101.00>85.00 (-) A=126563 9.98e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=234309 1.92e4



Insight Report

Printed at 6/12/2024 2:54:13 PM

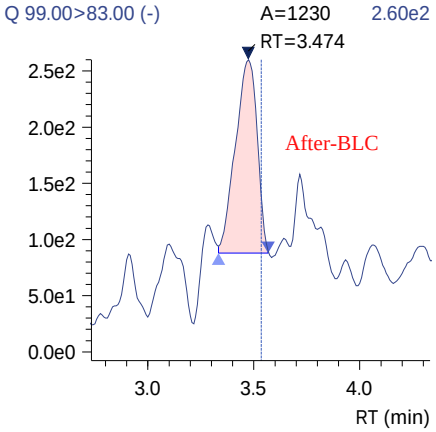
E2400650-005

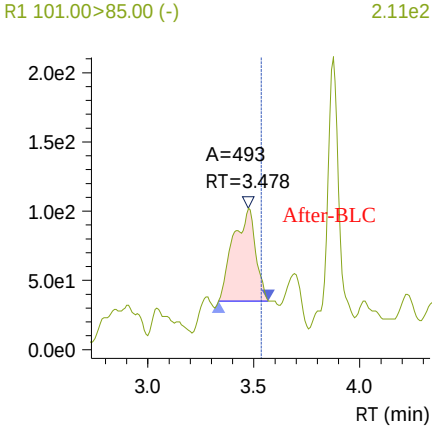
Sample ID: E2400650-005
Date Acquired: 6/12/2024 11:33:23 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240612\20240612-006.lcd
Vial: 35 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.474	1230	281440	0.0299	ng/mL	101.00 >85.00	40.08	23.50 -43.64
Sodium Perchlorate-18O4_IS	Auto	3.454	2814 40	281440	1.0000	ng/mL	----	----	

Perchlorate

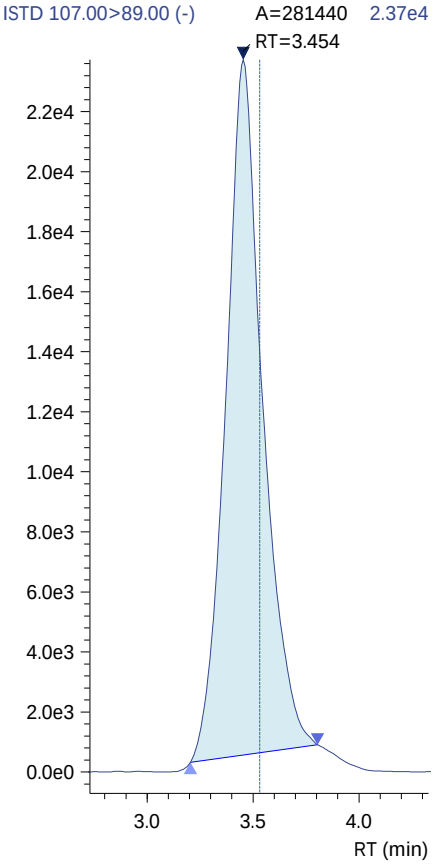
Conc 0.0299
R#1 40.08 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 2:54:52 PM

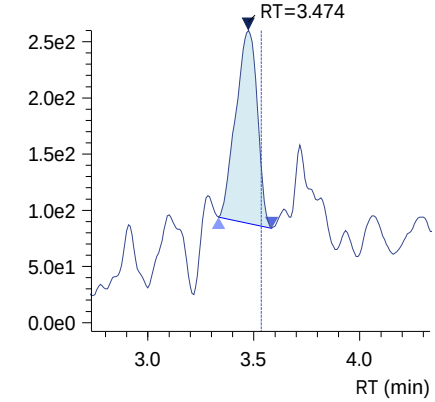
E2400650-005

Sample ID: E2400650-005
Date Acquired: 6/12/2024 11:33:23 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240612\20240612-006.lcd
Vial: 35 | Inj. Volume: 10.0000uL | Tray: 1

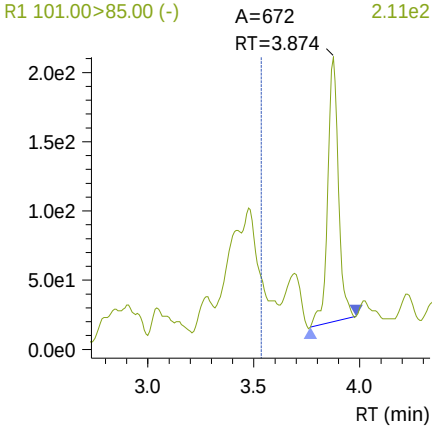
Perchlorate

Conc 0.0295
R#1 0.00 (34.10)

Q 99.00>83.00 (-) A=1214 2.60e2



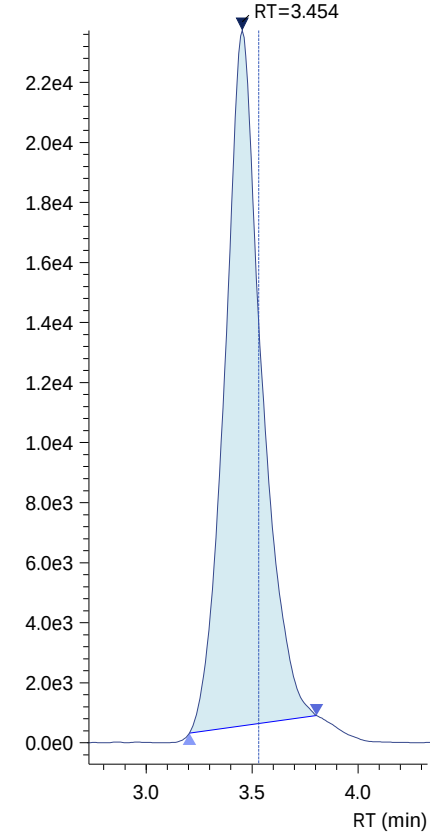
R1 101.00>85.00 (-) A=672 2.11e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=281440 2.37e4



Insight Report

Printed at 6/12/2024 2:54:13 PM

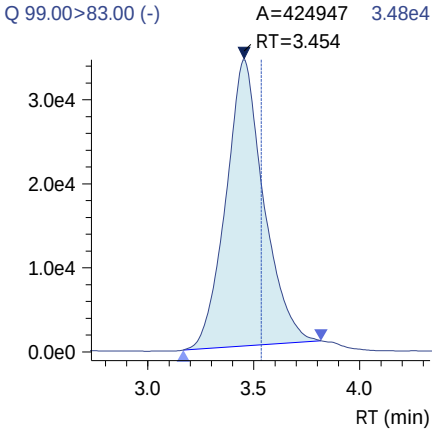
CCV

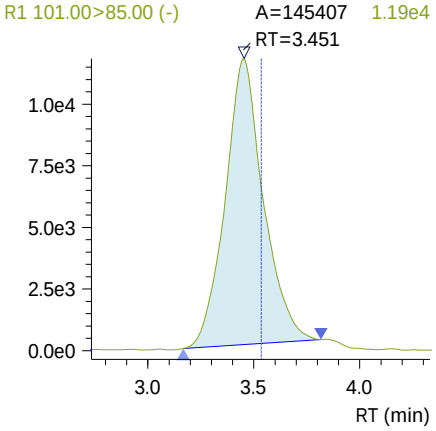
Sample ID: CCV
Date Acquired: 6/12/2024 12:01:09 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240612\20240612-011.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.454	4249 47	280076	10.3 918	ng/mL	101.00 >85.00	34.22	23.50 -43.64
Sodium Perchlorate-18O4_IS	Auto	3.450	2800 76	280076	1.0000	ng/mL	----	----	

Perchlorate

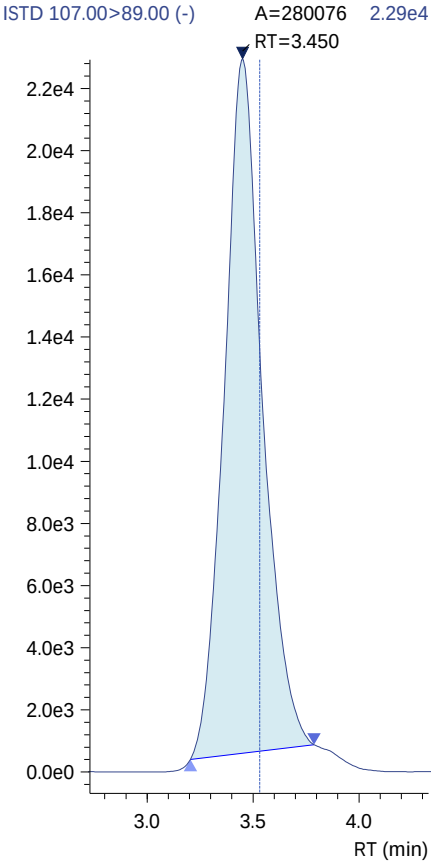
Conc 10.3918
R#1 34.22 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 2:54:13 PM

IB

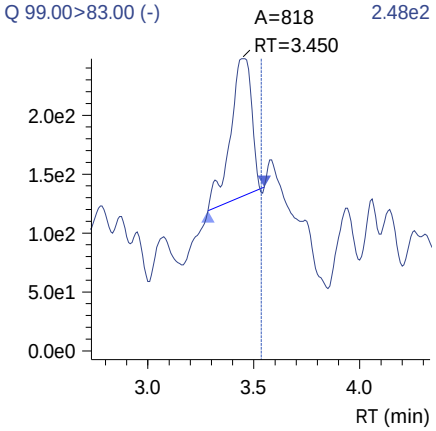
Sample ID: IB
Date Acquired: 6/12/2024 12:06:39 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240612\20240612-012.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	285658	----	ng/mL	101.00 >85.00	0.00	23.50 -43.64
Sodium Perchlorate-18O4_IS	Auto	3.451	285658	285658	1.0000	ng/mL	----	----	

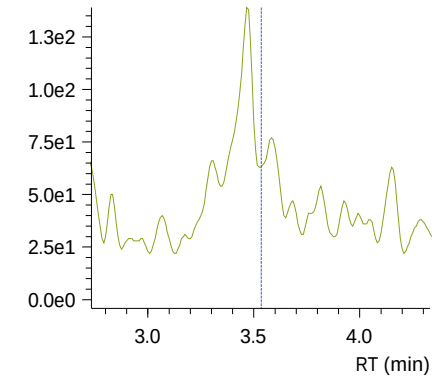
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 2.48e2



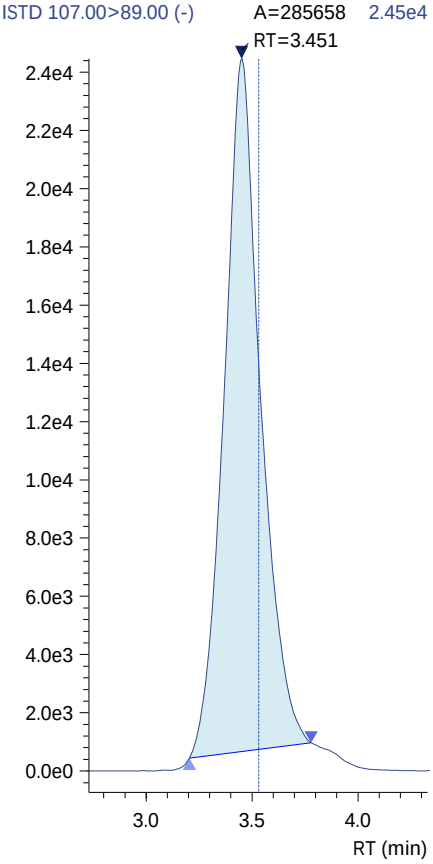
R1 101.00>85.00 (-) 1.39e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.45e4



HS24060434 LHAAP Site 1824 COVER PAGE REV01

ALS WO# HS24060434

ALS Environmental
ALS Group USA, Corp
10450 Stancliff Road, Suite 210
Houston, TX 77099
T : +1 281 530 5656
F : +1 281 530 5887
www.alsglobal.com

Table of Contents

HS24060434 LHAAP Site 1824 COVER PAGE REV01
- CoverPage
- HS24060434 LHAAP Site 1824 Final REV01
  - CoverLetter
  - Sample Summary
  - CaseNarrative
  - MW2_060624
  - 18CPTMW01DW_060624
  - 18CPTMW01SW_060624
  - 102_060624
  - 102_060624_a
  - 18CPTMW07_060624
  - 18CPTMW24_060624
  - MW8_060624
  - 18WW14_060624
  - Trip Blank
  - Weight/Volume Log
  - Dates Report
  - QC
  - Acronyms
  - Certifications
  - SampleReceiptCheckList

Table of Contents (continued)

COC

HS24060434 E2400684 Perch Level II Report

HS24060434-MSSEMI-SW8270SIM REV01

Form 2 - Surrogates

Form 3B - LCS/LCSD

Form 4 - MB Assoc

Form 5 - Tune

Form 6 - ICAL

Form 6I - ICV

Form 7 - CCV

Form 8 - ISTD

Prep Batch

Run Log

Raw Data SV_6 240418

Raw Data SV_6_470076 240620

HS24060434-MSVOA-SW8260 REV01

HS24060434 - ME - HG_W_DODICP_W_DOD

Form 11 - ICPMS05 Internal Standard Association

Form 13 - HG04_469750 Run Log

Form 13 - ICPMS05_469846 Run Log

Form 2 - HG04_469750 CCV

Form 2 - ICPMS05_469846 CCV

Form 3 - HG04_469750 CCB

Form 3 - ICPMS05_469846 CCB

Form 4 - ICPMS05_469846 ICSA

Form 5A - HG04_469750 MS

Form 5A - ICPMS05_469846 MS

Form 5B - ICPMS05_469846 PDS

Form 7 - HG04_469750 LCS

Form 7 - ICPMS05_469846 LCS

Form 8 - ICPMS05_469846 SD

Prep Batch

HS24060434 E2400684 Perch Level IV Report

CoverLetter

Certificate of Analysis

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
alsglobal.com

right solutions.
right partner.

WorkOrder: HS24060434

LHAAP Site 18/24

Bhate Environmental Associates, Inc.

Marcia Olive
445 Union Blvd Ste 129
Lakewood CO 80228

19-Sep-2024

HS24060434 LHAAP Site 1824 Final REV01

ALS WO# HS24060434

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

August 30, 2024

Marcia Olive
Bhate Environmental Associates, Inc.
445 Union Blvd Ste 129
Lakewood, CO 80228

Work Order: **HS24060434**

Laboratory Results for: **LHAAP Site 18/24**

Dear Marcia Olive,

ALS Environmental received 10 sample(s) on Jun 07, 2024 for the analysis presented in the following report.

This is a REVISED REPORT. Please see the Case Narrative for discussion concerning this revision.

Regards,

Generated By: JUMOKE.LAWAL
Luis.Aguilar

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
Work Order: HS24060434

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24060434-01	MW2_060624	Groundwater		06-Jun-2024 06:55	07-Jun-2024 09:15	☐
HS24060434-02	18CPTMW01DW_060624	Groundwater		06-Jun-2024 07:40	07-Jun-2024 09:15	☐
HS24060434-03	18CPTMW01SW_060624	Groundwater		06-Jun-2024 08:30	07-Jun-2024 09:15	☐
HS24060434-04	102_060624	Groundwater		06-Jun-2024 09:15	07-Jun-2024 09:15	☐
HS24060434-05	102_060624_a	Groundwater		06-Jun-2024 09:15	07-Jun-2024 09:15	☐
HS24060434-06	18CPTMW07_060624	Groundwater		06-Jun-2024 10:00	07-Jun-2024 09:15	☐
HS24060434-07	18CPTMW24_060624	Groundwater		06-Jun-2024 10:45	07-Jun-2024 09:15	☐
HS24060434-08	MW8_060624	Groundwater		06-Jun-2024 11:30	07-Jun-2024 09:15	☐
HS24060434-09	18WW14_060624	Groundwater		06-Jun-2024 12:20	07-Jun-2024 09:15	☐
HS24060434-10	Trip Blank	Water	CG-052424-91	06-Jun-2024 00:00	07-Jun-2024 09:15	☐

Revision:1

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc. **CASE NARRATIVE**
Project: LHAAP Site 18/24
Work Order: HS24060434

Work Order Comments

• This report was revised 08/30/24 to correct the limit of detection values due to laboratory error.

Work Order Comments

• The analysis for Perchlorate was subcontracted to ALS High Res Lab Houston, TX. Final report attached.

GCMS Semivolatiles by Method SW8270SIM

Batch ID: 213281

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

GCMS Volatiles by Method SW8260

Batch ID: R469833

Sample ID: MW8_060624 (HS24060434-08)

• Surrogates failed outside control limits high. Associated samples with hits may be biased high. -4 BFB and Toluene-d8

Sample ID: VBLKW-240618

• Surrogates failed outside control limits high. Associated samples with the hits biased high.

Sample ID: VLCSW-240618

• Surrogates failed outside control limits high. Associated samples with the hits biased high.

Sample ID: HS24060379-09MS

• MS and MSD are for an unrelated sample

Batch ID: R469580

Sample ID: MW2_060624 (HS24060434-01)

• Surrogates failed outside control limits high. Sample is ND.

Sample ID: MW2_060624 (HS24060434-01MS)

• MS/MSD failed qc limits for surrogates

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc. **CASE NARRATIVE**
Project: LHAAP Site 18/24
Work Order: HS24060434

GCMS Volatiles by Method SW8260

Batch ID: R469280

Sample ID: 18CPTMW01SW_060624 (HS24060434-03)

- Lowest possible dilution due to high concentrations of non target analytes.

Sample ID: 18CPTMW24_060624 (HS24060434-07)

- Lowest possible dilution due to high concentrations of non target analytes.

Sample ID: MW2_060624 (HS24060434-01)

- Lowest possible dilution due to matrix interference and high concentrations of target analytes. Surrogate failed outside control limits high due to matrix interference. There are no hits associated with this surrogate.

Sample ID: HS24060214-10MS

- MS and MSD are for an unrelated sample

Metals by Method SW7470A

Batch ID: 213707

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW6020A

Batch ID: 213517

Sample ID: 18WW14_060624 (HS24060434-09MS)

- Calcium, Chromium and Nickel failed for MS and/or MSD but passed on PDS
  Magnesium and Manganese failed for MS but passed on MSD and PDS

- The MS and/or MSD recovery was outside of the control limits; however, the result in the parent sample is greater than 4x the spike amount. (Barium,Sodium)

Sample ID: 18WW14_060624 (HS24060434-09PDS)

- The PDS recovery was outside method control limits, however the result in the parent sample is greater than 4x the spike amount. (Sodium)

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
Sample ID: MW2_060624
Collection Date: 06-Jun-2024 06:55

ANALYTICAL REPORT
WorkOrder:HS24060434
Lab ID:HS24060434-01
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	120	U	75	120	250	ug/L	250	13-Jun-2024 01:31
1,1,1-Trichloroethane	120	U	50	120	250	ug/L	250	13-Jun-2024 01:31
1,1,2,2-Tetrachloroethane	250	U	120	250	250	ug/L	250	13-Jun-2024 01:31
1,1,2-Trichloroethane	120	U	75	120	250	ug/L	250	13-Jun-2024 01:31
1,1-Dichloroethane	120	U	50	120	250	ug/L	250	13-Jun-2024 01:31
1,1-Dichloroethene	120	U	50	120	250	ug/L	250	13-Jun-2024 01:31
1,1-Dichloropropene	120	U	75	120	250	ug/L	250	13-Jun-2024 01:31
1,2,3-Trichlorobenzene	120	U	100	120	250	ug/L	250	13-Jun-2024 01:31
1,2,3-Trichloropropane	120	U	120	120	250	ug/L	250	13-Jun-2024 01:31
1,2,4-Trichlorobenzene	120	U	120	120	250	ug/L	250	13-Jun-2024 01:31
1,2,4-Trimethylbenzene	120	U	75	120	250	ug/L	250	15-Jun-2024 21:15
1,2-Dibromo-3-chloropropane	120	U	50	120	250	ug/L	250	13-Jun-2024 01:31
1,2-Dibromoethane	120	U	50	120	250	ug/L	250	13-Jun-2024 01:31
1,2-Dichlorobenzene	120	U	120	120	250	ug/L	250	13-Jun-2024 01:31
1,2-Dichloroethane	120	U	50	120	250	ug/L	250	13-Jun-2024 01:31
1,2-Dichloropropane	120	U	120	120	250	ug/L	250	13-Jun-2024 01:31
1,3,5-Trimethylbenzene	120	U	75	120	250	ug/L	250	13-Jun-2024 01:31
1,3-Dichlorobenzene	120	U	100	120	250	ug/L	250	13-Jun-2024 01:31
1,3-Dichloropropane	120	U	75	120	250	ug/L	250	13-Jun-2024 01:31
1,4-Dichlorobenzene	120	U	100	120	250	ug/L	250	13-Jun-2024 01:31
2,2-Dichloropropane	120	U	50	120	250	ug/L	250	13-Jun-2024 01:31
2-Butanone	250	U	120	250	500	ug/L	250	13-Jun-2024 01:31
2-Chlorotoluene	120	U	75	120	250	ug/L	250	13-Jun-2024 01:31
2-Hexanone	250	U	250	250	500	ug/L	250	13-Jun-2024 01:31
4-Chlorotoluene	120	U	100	120	250	ug/L	250	13-Jun-2024 01:31
4-Isopropyltoluene	120	U	75	120	250	ug/L	250	13-Jun-2024 01:31
4-Methyl-2-pentanone	250	U	180	250	500	ug/L	250	13-Jun-2024 01:31
Acetone	250	U	100	250	500	ug/L	250	13-Jun-2024 01:31
Benzene	120	U	50	120	250	ug/L	250	13-Jun-2024 01:31
Bromobenzene	120	U	100	120	250	ug/L	250	13-Jun-2024 01:31
Bromochloromethane	120	U	50	120	250	ug/L	250	13-Jun-2024 01:31
Bromodichloromethane	120	U	50	120	250	ug/L	250	13-Jun-2024 01:31
Bromoform	120	U	100	120	250	ug/L	250	13-Jun-2024 01:31
Bromomethane	120	U	100	120	250	ug/L	250	13-Jun-2024 01:31
Carbon disulfide	250	U	150	250	500	ug/L	250	13-Jun-2024 01:31
Carbon tetrachloride	120	U	120	120	250	ug/L	250	13-Jun-2024 01:31
Chlorobenzene	120	U	75	120	250	ug/L	250	13-Jun-2024 01:31
Chloroethane	120	U	75	120	250	ug/L	250	13-Jun-2024 01:31
Chloroform	120	U	50	120	250	ug/L	250	13-Jun-2024 01:31

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
Sample ID: MW2_060624
Collection Date: 06-Jun-2024 06:55

ANALYTICAL REPORT
WorkOrder:HS24060434
Lab ID:HS24060434-01
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
Chloromethane	120	U	50	120	250	ug/L	250	13-Jun-2024 01:31
cis-1,2-Dichloroethene	**19,000**		**50**	**120**	**250**	**ug/L**	250	13-Jun-2024 01:31
cis-1,3-Dichloropropene	120	U	50	120	250	ug/L	250	13-Jun-2024 01:31
Dibromochloromethane	120	U	75	120	250	ug/L	250	13-Jun-2024 01:31
Dibromomethane	120	U	50	120	250	ug/L	250	13-Jun-2024 01:31
Dichlorodifluoromethane	120	U	75	120	250	ug/L	250	13-Jun-2024 01:31
Ethylbenzene	120	U	75	120	250	ug/L	250	13-Jun-2024 01:31
Hexachlorobutadiene	120	U	250	120	250	ug/L	250	13-Jun-2024 01:31
Isopropylbenzene	120	U	75	120	250	ug/L	250	15-Jun-2024 21:15
m,p-Xylene	**460**	J	**120**	**250**	**500**	**ug/L**	250	13-Jun-2024 01:31
Methylene chloride	120	U	100	120	500	ug/L	250	13-Jun-2024 01:31
n-Butylbenzene	120	U	100	120	250	ug/L	250	13-Jun-2024 01:31
n-Propylbenzene	120	U	75	120	250	ug/L	250	13-Jun-2024 01:31
Naphthalene	120	U	75	120	250	ug/L	250	13-Jun-2024 01:31
o-Xylene	**130**	J	**75**	**120**	**250**	**ug/L**	250	13-Jun-2024 01:31
sec-Butylbenzene	120	U	75	120	250	ug/L	250	13-Jun-2024 01:31
Styrene	120	U	75	120	250	ug/L	250	13-Jun-2024 01:31
tert-Butylbenzene	120	U	75	120	250	ug/L	250	13-Jun-2024 01:31
Tetrachloroethene	120	U	75	120	250	ug/L	250	13-Jun-2024 01:31
Toluene	**290**		**50**	**120**	**250**	**ug/L**	250	13-Jun-2024 01:31
trans-1,2-Dichloroethene	120	U	50	120	250	ug/L	250	13-Jun-2024 01:31
trans-1,3-Dichloropropene	120	U	50	120	250	ug/L	250	13-Jun-2024 01:31
Trichloroethene	**4,800**		**50**	**120**	**250**	**ug/L**	250	13-Jun-2024 01:31
Trichlorofluoromethane	120	U	75	120	250	ug/L	250	13-Jun-2024 01:31
Vinyl chloride	120	U	50	120	250	ug/L	250	13-Jun-2024 01:31
Surr: 1,2-Dichloroethane-d4	*116*			**0**	*81-118*	*%REC*	*250*	*13-Jun-2024 01:31*
Surr: 1,2-Dichloroethane-d4	*114*			**0**	*81-118*	*%REC*	*250*	*15-Jun-2024 21:15*
Surr: 4-Bromofluorobenzene	*123*	*S*		**0**	*85-114*	*%REC*	*250*	*13-Jun-2024 01:31*
Surr: 4-Bromofluorobenzene	*109*			**0**	*85-114*	*%REC*	*250*	*15-Jun-2024 21:15*
Surr: Dibromofluoromethane	*115*			**0**	*80-119*	*%REC*	*250*	*13-Jun-2024 01:31*
Surr: Dibromofluoromethane	*120*	*S*		**0**	*80-119*	*%REC*	*250*	*15-Jun-2024 21:15*
Surr: Toluene-d8	*109*			**0**	*89-112*	*%REC*	*250*	*13-Jun-2024 01:31*
Surr: Toluene-d8	*120*	*S*		**0**	*89-112*	*%REC*	*250*	*15-Jun-2024 21:15*
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 11-Jun-2024		Analyst: MBG
1,4-Dioxane	**0.47**		**0.010**	**0.020**	**0.030**	**ug/L**	1	20-Jun-2024 16:32
Surr: 2-Fluorobiphenyl	*75.8*			**0**	*40-140*	*%REC*	*1*	*20-Jun-2024 16:32*
Surr: 4-Terphenyl-d14	*90.3*			**0**	*40-140*	*%REC*	*1*	*20-Jun-2024 16:32*
Surr: Nitrobenzene-d5	*122*			**0**	*40-140*	*%REC*	*1*	*20-Jun-2024 16:32*

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
Sample ID: MW2_060624
Collection Date: 06-Jun-2024 06:55

ANALYTICAL REPORT
WorkOrder:HS24060434
Lab ID:HS24060434-01
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	25-Jun-2024 10:20

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
Sample ID: 18CPTMW01DW_060624
Collection Date: 06-Jun-2024 07:40

ANALYTICAL REPORT
WorkOrder:HS24060434
Lab ID:HS24060434-02
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 21:38
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 21:38
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	12-Jun-2024 21:38
1,1,2-Trichloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 21:38
1,1-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 21:38
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 21:38
1,1-Dichloropropene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 21:38
1,2,3-Trichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	12-Jun-2024 21:38
1,2,3-Trichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	12-Jun-2024 21:38
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	12-Jun-2024 21:38
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 21:38
1,2-Dibromo-3-chloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 21:38
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 21:38
1,2-Dichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	12-Jun-2024 21:38
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 21:38
1,2-Dichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	12-Jun-2024 21:38
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 21:38
1,3-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	12-Jun-2024 21:38
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 21:38
1,4-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	12-Jun-2024 21:38
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 21:38
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	12-Jun-2024 21:38
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 21:38
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	12-Jun-2024 21:38
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	12-Jun-2024 21:38
4-Isopropyltoluene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 21:38
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	12-Jun-2024 21:38
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	12-Jun-2024 21:38
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 21:38
Bromobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	12-Jun-2024 21:38
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 21:38
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 21:38
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	12-Jun-2024 21:38
Bromomethane	0.50	U	0.40	0.50	1.0	ug/L	1	12-Jun-2024 21:38
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	12-Jun-2024 21:38
Carbon tetrachloride	0.50	U	0.50	0.50	1.0	ug/L	1	12-Jun-2024 21:38
Chlorobenzene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 21:38
Chloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 21:38
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 21:38

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
Sample ID: 18CPTMW01DW_060624
Collection Date: 06-Jun-2024 07:40

ANALYTICAL REPORT
WorkOrder:HS24060434
Lab ID:HS24060434-02
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
Chloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 21:38
cis-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 21:38
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 21:38
Dibromochloromethane	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 21:38
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 21:38
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 21:38
Ethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 21:38
Hexachlorobutadiene	0.50	U	1.0	0.50	1.0	ug/L	1	12-Jun-2024 21:38
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 21:38
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	12-Jun-2024 21:38
Methylene chloride	0.50	U	0.40	0.50	2.0	ug/L	1	12-Jun-2024 21:38
n-Butylbenzene	0.50	U	0.40	0.50	1.0	ug/L	1	12-Jun-2024 21:38
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 21:38
Naphthalene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 21:38
o-Xylene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 21:38
sec-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 21:38
Styrene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 21:38
tert-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 21:38
Tetrachloroethene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 21:38
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 21:38
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 21:38
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 21:38
Trichloroethene	**1.3**		**0.20**	**0.50**	**1.0**	**ug/L**	1	12-Jun-2024 21:38
Trichlorofluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 21:38
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 21:38
Surr: 1,2-Dichloroethane-d4	*114*			**0**	*81-118*	*%REC*	*1*	*12-Jun-2024 21:38*
Surr: 4-Bromofluorobenzene	*108*			**0**	*85-114*	*%REC*	*1*	*12-Jun-2024 21:38*
Surr: Dibromofluoromethane	*116*			**0**	*80-119*	*%REC*	*1*	*12-Jun-2024 21:38*
Surr: Toluene-d8	*111*			**0**	*89-112*	*%REC*	*1*	*12-Jun-2024 21:38*
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 11-Jun-2024		Analyst: MBG
1,4-Dioxane	**0.16**		**0.010**	**0.020**	**0.030**	**ug/L**	1	20-Jun-2024 16:49
Surr: 2-Fluorobiphenyl	*70.4*			**0**	*40-140*	*%REC*	*1*	*20-Jun-2024 16:49*
Surr: 4-Terphenyl-d14	*78.2*			**0**	*40-140*	*%REC*	*1*	*20-Jun-2024 16:49*
Surr: Nitrobenzene-d5	*80.7*			**0**	*40-140*	*%REC*	*1*	*20-Jun-2024 16:49*

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
Sample ID: 18CPTMW01DW_060624
Collection Date: 06-Jun-2024 07:40

ANALYTICAL REPORT
WorkOrder:HS24060434
Lab ID:HS24060434-02
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 13-Jun-2024		Analyst: MSC
Aluminum	**0.0170**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	19-Jun-2024 13:45
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	19-Jun-2024 13:45
Arsenic	**0.00339**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	19-Jun-2024 13:45
Barium	**0.190**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	19-Jun-2024 13:45
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	19-Jun-2024 13:45
Cadmium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	19-Jun-2024 13:45
Calcium	**10.1**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	19-Jun-2024 13:45
Chromium	**0.00957**		**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	19-Jun-2024 13:45
Cobalt	**0.000322**	J	**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	19-Jun-2024 13:45
Copper	0.00125	U	0.00100	0.00125	0.00500	mg/L	1	19-Jun-2024 13:45
Iron	**1.18**		**0.0120**	**0.0500**	**0.200**	**mg/L**	1	19-Jun-2024 13:45
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	19-Jun-2024 13:45
Magnesium	**13.2**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	19-Jun-2024 13:45
Manganese	**0.0150**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	19-Jun-2024 13:45
Nickel	**0.00226**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	19-Jun-2024 13:45
Potassium	**114**		**0.0180**	**0.0500**	**0.200**	**mg/L**	1	19-Jun-2024 13:45
Selenium	0.00125	U	0.00110	0.00125	0.00500	mg/L	1	19-Jun-2024 13:45
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	19-Jun-2024 13:45
Sodium	**512**		**1.40**	**5.00**	**20.0**	**mg/L**	100	19-Jun-2024 14:20
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	19-Jun-2024 13:45
Vanadium	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	19-Jun-2024 13:45
Zinc	**0.00668**		**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	19-Jun-2024 13:45
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 18-Jun-2024		Analyst: JS
Mercury	0.000100	U	0.0000300	0.000100	0.000200	mg/L	1	18-Jun-2024 14:26
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	25-Jun-2024 10:20

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
Sample ID: 18CPTMW01SW_060624
Collection Date: 06-Jun-2024 08:30

ANALYTICAL REPORT
WorkOrder:HS24060434
Lab ID:HS24060434-03
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	50	U	30	50	100	ug/L	100	13-Jun-2024 01:54
1,1,1-Trichloroethane	50	U	20	50	100	ug/L	100	13-Jun-2024 01:54
1,1,2,2-Tetrachloroethane	100	U	50	100	100	ug/L	100	13-Jun-2024 01:54
1,1,2-Trichloroethane	50	U	30	50	100	ug/L	100	13-Jun-2024 01:54
1,1-Dichloroethane	50	U	20	50	100	ug/L	100	13-Jun-2024 01:54
1,1-Dichloroethene	50	U	20	50	100	ug/L	100	13-Jun-2024 01:54
1,1-Dichloropropene	50	U	30	50	100	ug/L	100	13-Jun-2024 01:54
1,2,3-Trichlorobenzene	50	U	40	50	100	ug/L	100	13-Jun-2024 01:54
1,2,3-Trichloropropane	50	U	50	50	100	ug/L	100	13-Jun-2024 01:54
1,2,4-Trichlorobenzene	50	U	50	50	100	ug/L	100	13-Jun-2024 01:54
1,2,4-Trimethylbenzene	50	U	30	50	100	ug/L	100	13-Jun-2024 01:54
1,2-Dibromo-3-chloropropane	50	U	20	50	100	ug/L	100	13-Jun-2024 01:54
1,2-Dibromoethane	50	U	20	50	100	ug/L	100	13-Jun-2024 01:54
1,2-Dichlorobenzene	50	U	50	50	100	ug/L	100	13-Jun-2024 01:54
1,2-Dichloroethane	50	U	20	50	100	ug/L	100	13-Jun-2024 01:54
1,2-Dichloropropane	50	U	50	50	100	ug/L	100	13-Jun-2024 01:54
1,3,5-Trimethylbenzene	50	U	30	50	100	ug/L	100	13-Jun-2024 01:54
1,3-Dichlorobenzene	50	U	40	50	100	ug/L	100	13-Jun-2024 01:54
1,3-Dichloropropane	50	U	30	50	100	ug/L	100	13-Jun-2024 01:54
1,4-Dichlorobenzene	50	U	40	50	100	ug/L	100	13-Jun-2024 01:54
2,2-Dichloropropane	50	U	20	50	100	ug/L	100	13-Jun-2024 01:54
2-Butanone	100	U	50	100	200	ug/L	100	13-Jun-2024 01:54
2-Chlorotoluene	50	U	30	50	100	ug/L	100	13-Jun-2024 01:54
2-Hexanone	100	U	100	100	200	ug/L	100	13-Jun-2024 01:54
4-Chlorotoluene	50	U	40	50	100	ug/L	100	13-Jun-2024 01:54
4-Isopropyltoluene	50	U	30	50	100	ug/L	100	13-Jun-2024 01:54
4-Methyl-2-pentanone	100	U	70	100	200	ug/L	100	13-Jun-2024 01:54
Acetone	100	U	40	100	200	ug/L	100	13-Jun-2024 01:54
Benzene	50	U	20	50	100	ug/L	100	13-Jun-2024 01:54
Bromobenzene	50	U	40	50	100	ug/L	100	13-Jun-2024 01:54
Bromochloromethane	50	U	20	50	100	ug/L	100	13-Jun-2024 01:54
Bromodichloromethane	50	U	20	50	100	ug/L	100	13-Jun-2024 01:54
Bromoform	50	U	40	50	100	ug/L	100	13-Jun-2024 01:54
Bromomethane	50	U	40	50	100	ug/L	100	13-Jun-2024 01:54
Carbon disulfide	100	U	60	100	200	ug/L	100	13-Jun-2024 01:54
Carbon tetrachloride	50	U	50	50	100	ug/L	100	13-Jun-2024 01:54
Chlorobenzene	50	U	30	50	100	ug/L	100	13-Jun-2024 01:54
Chloroethane	50	U	30	50	100	ug/L	100	13-Jun-2024 01:54
Chloroform	50	U	20	50	100	ug/L	100	13-Jun-2024 01:54

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
Sample ID: 18CPTMW01SW_060624
Collection Date: 06-Jun-2024 08:30

ANALYTICAL REPORT
WorkOrder:HS24060434
Lab ID:HS24060434-03
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
Chloromethane	50	U	20	50	100	ug/L	100	13-Jun-2024 01:54
cis-1,2-Dichloroethene	**2,300**		**20**	**50**	**100**	**ug/L**	100	13-Jun-2024 01:54
cis-1,3-Dichloropropene	50	U	20	50	100	ug/L	100	13-Jun-2024 01:54
Dibromochloromethane	50	U	30	50	100	ug/L	100	13-Jun-2024 01:54
Dibromomethane	50	U	20	50	100	ug/L	100	13-Jun-2024 01:54
Dichlorodifluoromethane	50	U	30	50	100	ug/L	100	13-Jun-2024 01:54
Ethylbenzene	50	U	30	50	100	ug/L	100	13-Jun-2024 01:54
Hexachlorobutadiene	50	U	100	50	100	ug/L	100	13-Jun-2024 01:54
Isopropylbenzene	50	U	30	50	100	ug/L	100	13-Jun-2024 01:54
m,p-Xylene	100	U	50	100	200	ug/L	100	13-Jun-2024 01:54
Methylene chloride	**8,300**		**40**	**50**	**200**	**ug/L**	100	13-Jun-2024 01:54
n-Butylbenzene	50	U	40	50	100	ug/L	100	13-Jun-2024 01:54
n-Propylbenzene	50	U	30	50	100	ug/L	100	13-Jun-2024 01:54
Naphthalene	50	U	30	50	100	ug/L	100	13-Jun-2024 01:54
o-Xylene	50	U	30	50	100	ug/L	100	13-Jun-2024 01:54
sec-Butylbenzene	50	U	30	50	100	ug/L	100	13-Jun-2024 01:54
Styrene	50	U	30	50	100	ug/L	100	13-Jun-2024 01:54
tert-Butylbenzene	50	U	30	50	100	ug/L	100	13-Jun-2024 01:54
Tetrachloroethene	50	U	30	50	100	ug/L	100	13-Jun-2024 01:54
Toluene	50	U	20	50	100	ug/L	100	13-Jun-2024 01:54
trans-1,2-Dichloroethene	50	U	20	50	100	ug/L	100	13-Jun-2024 01:54
trans-1,3-Dichloropropene	50	U	20	50	100	ug/L	100	13-Jun-2024 01:54
Trichloroethene	50	U	20	50	100	ug/L	100	13-Jun-2024 01:54
Trichlorofluoromethane	50	U	30	50	100	ug/L	100	13-Jun-2024 01:54
Vinyl chloride	50	U	20	50	100	ug/L	100	13-Jun-2024 01:54
Surr: 1,2-Dichloroethane-d4	*117*			**0**	*81-118*	*%REC*	*100*	*13-Jun-2024 01:54*
Surr: 4-Bromofluorobenzene	*108*			**0**	*85-114*	*%REC*	*100*	*13-Jun-2024 01:54*
Surr: Dibromofluoromethane	*117*			**0**	*80-119*	*%REC*	*100*	*13-Jun-2024 01:54*
Surr: Toluene-d8	*112*			**0**	*89-112*	*%REC*	*100*	*13-Jun-2024 01:54*
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 11-Jun-2024		Analyst: MBG
1,4-Dioxane	0.020	U	0.010	0.020	0.030	ug/L	1	20-Jun-2024 17:06
Surr: 2-Fluorobiphenyl	*65.2*			**0**	*40-140*	*%REC*	*1*	*20-Jun-2024 17:06*
Surr: 4-Terphenyl-d14	*75.9*			**0**	*40-140*	*%REC*	*1*	*20-Jun-2024 17:06*
Surr: Nitrobenzene-d5	*76.4*			**0**	*40-140*	*%REC*	*1*	*20-Jun-2024 17:06*

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
Sample ID: 18CPTMW01SW_060624
Collection Date: 06-Jun-2024 08:30

ANALYTICAL REPORT
WorkOrder:HS24060434
Lab ID:HS24060434-03
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 13-Jun-2024		Analyst: MSC
Aluminum	**0.0550**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	19-Jun-2024 13:53
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	19-Jun-2024 13:53
Arsenic	**0.00770**		**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	19-Jun-2024 13:53
Barium	**1.34**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	19-Jun-2024 13:53
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	19-Jun-2024 13:53
Cadmium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	19-Jun-2024 13:53
Calcium	**50.5**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	19-Jun-2024 13:53
Chromium	**0.00892**		**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	19-Jun-2024 13:53
Cobalt	**0.00126**	J	**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	19-Jun-2024 13:53
Copper	0.00125	U	0.00100	0.00125	0.00500	mg/L	1	19-Jun-2024 13:53
Iron	**62.0**		**0.0120**	**0.0500**	**0.200**	**mg/L**	1	19-Jun-2024 13:53
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	19-Jun-2024 13:53
Magnesium	**27.0**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	19-Jun-2024 13:53
Manganese	**0.657**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	19-Jun-2024 13:53
Nickel	**0.00230**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	19-Jun-2024 13:53
Potassium	**14.9**		**0.0180**	**0.0500**	**0.200**	**mg/L**	1	19-Jun-2024 13:53
Selenium	0.00125	U	0.00110	0.00125	0.00500	mg/L	1	19-Jun-2024 13:53
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	19-Jun-2024 13:53
Sodium	**116**		**0.0140**	**0.0500**	**0.200**	**mg/L**	1	19-Jun-2024 13:53
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	19-Jun-2024 13:53
Vanadium	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	19-Jun-2024 13:53
Zinc	**0.00679**		**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	19-Jun-2024 13:53
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 18-Jun-2024		Analyst: JS
Mercury	0.000100	U	0.0000300	0.000100	0.000200	mg/L	1	18-Jun-2024 14:28
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	25-Jun-2024 10:20

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
Sample ID: 102_060624
Collection Date: 06-Jun-2024 09:15

ANALYTICAL REPORT
WorkOrder:HS24060434
Lab ID:HS24060434-04
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:01
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 22:01
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	12-Jun-2024 22:01
1,1,2-Trichloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:01
1,1-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 22:01
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 22:01
1,1-Dichloropropene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:01
1,2,3-Trichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	12-Jun-2024 22:01
1,2,3-Trichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	12-Jun-2024 22:01
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	12-Jun-2024 22:01
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:01
1,2-Dibromo-3-chloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 22:01
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 22:01
1,2-Dichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	12-Jun-2024 22:01
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 22:01
1,2-Dichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	12-Jun-2024 22:01
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:01
1,3-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	12-Jun-2024 22:01
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:01
1,4-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	12-Jun-2024 22:01
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 22:01
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	12-Jun-2024 22:01
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:01
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	12-Jun-2024 22:01
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	12-Jun-2024 22:01
4-Isopropyltoluene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:01
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	12-Jun-2024 22:01
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	12-Jun-2024 22:01
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 22:01
Bromobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	12-Jun-2024 22:01
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 22:01
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 22:01
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	12-Jun-2024 22:01
Bromomethane	0.50	U	0.40	0.50	1.0	ug/L	1	12-Jun-2024 22:01
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	12-Jun-2024 22:01
Carbon tetrachloride	0.50	U	0.50	0.50	1.0	ug/L	1	12-Jun-2024 22:01
Chlorobenzene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:01
Chloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:01
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 22:01

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
Sample ID: 102_060624
Collection Date: 06-Jun-2024 09:15

ANALYTICAL REPORT
WorkOrder:HS24060434
Lab ID:HS24060434-04
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
Chloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 22:01
cis-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 22:01
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 22:01
Dibromochloromethane	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:01
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 22:01
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:01
Ethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:01
Hexachlorobutadiene	0.50	U	1.0	0.50	1.0	ug/L	1	12-Jun-2024 22:01
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:01
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	12-Jun-2024 22:01
Methylene chloride	0.50	U	0.40	0.50	2.0	ug/L	1	12-Jun-2024 22:01
n-Butylbenzene	0.50	U	0.40	0.50	1.0	ug/L	1	12-Jun-2024 22:01
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:01
Naphthalene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:01
o-Xylene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:01
sec-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:01
Styrene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:01
tert-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:01
Tetrachloroethene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:01
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 22:01
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 22:01
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 22:01
Trichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 22:01
Trichlorofluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:01
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 22:01
Surr: 1,2-Dichloroethane-d4	*116*			**0**	*81-118*	*%REC*	*1*	*12-Jun-2024 22:01*
Surr: 4-Bromofluorobenzene	*109*			**0**	*85-114*	*%REC*	*1*	*12-Jun-2024 22:01*
Surr: Dibromofluoromethane	*117*			**0**	*80-119*	*%REC*	*1*	*12-Jun-2024 22:01*
Surr: Toluene-d8	*111*			**0**	*89-112*	*%REC*	*1*	*12-Jun-2024 22:01*

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
Sample ID: 102_060624
Collection Date: 06-Jun-2024 09:15

ANALYTICAL REPORT
WorkOrder:HS24060434
Lab ID:HS24060434-04
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 13-Jun-2024		Analyst: MSC
Aluminum	**0.481**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	19-Jun-2024 13:55
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	19-Jun-2024 13:55
Arsenic	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	19-Jun-2024 13:55
Barium	**0.0848**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	19-Jun-2024 13:55
Beryllium	**0.000423**	J	**0.000200**	**0.000500**	**0.00200**	**mg/L**	1	19-Jun-2024 13:55
Cadmium	**0.000503**	J	**0.000200**	**0.000500**	**0.00200**	**mg/L**	1	19-Jun-2024 13:55
Calcium	**2.29**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	19-Jun-2024 13:55
Chromium	**0.000842**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	19-Jun-2024 13:55
Cobalt	**0.00176**	J	**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	19-Jun-2024 13:55
Copper	**0.00287**	J	**0.00100**	**0.00125**	**0.00500**	**mg/L**	1	19-Jun-2024 13:55
Iron	**0.411**		**0.0120**	**0.0500**	**0.200**	**mg/L**	1	19-Jun-2024 13:55
Lead	**0.000720**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	19-Jun-2024 13:55
Magnesium	**1.48**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	19-Jun-2024 13:55
Manganese	**0.0160**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	19-Jun-2024 13:55
Nickel	**0.00524**		**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	19-Jun-2024 13:55
Potassium	**0.332**		**0.0180**	**0.0500**	**0.200**	**mg/L**	1	19-Jun-2024 13:55
Selenium	0.00125	U	0.00110	0.00125	0.00500	mg/L	1	19-Jun-2024 13:55
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	19-Jun-2024 13:55
Sodium	**13.8**		**0.0140**	**0.0500**	**0.200**	**mg/L**	1	19-Jun-2024 13:55
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	19-Jun-2024 13:55
Vanadium	**0.00191**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	19-Jun-2024 13:55
Zinc	**0.0170**		**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	19-Jun-2024 13:55
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 18-Jun-2024		Analyst: JS
Mercury	0.000100	U	0.0000300	0.000100	0.000200	mg/L	1	18-Jun-2024 14:30
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	25-Jun-2024 10:20

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
Sample ID: 102_060624_a
Collection Date: 06-Jun-2024 09:15

ANALYTICAL REPORT
WorkOrder:HS24060434
Lab ID:HS24060434-05
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	13-Jun-2024 01:08
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	13-Jun-2024 01:08
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	13-Jun-2024 01:08
1,1,2-Trichloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	13-Jun-2024 01:08
1,1-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	13-Jun-2024 01:08
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	13-Jun-2024 01:08
1,1-Dichloropropene	0.50	U	0.30	0.50	1.0	ug/L	1	13-Jun-2024 01:08
1,2,3-Trichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	13-Jun-2024 01:08
1,2,3-Trichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	13-Jun-2024 01:08
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	13-Jun-2024 01:08
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	13-Jun-2024 01:08
1,2-Dibromo-3-chloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	13-Jun-2024 01:08
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	13-Jun-2024 01:08
1,2-Dichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	13-Jun-2024 01:08
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	13-Jun-2024 01:08
1,2-Dichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	13-Jun-2024 01:08
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	13-Jun-2024 01:08
1,3-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	13-Jun-2024 01:08
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	13-Jun-2024 01:08
1,4-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	13-Jun-2024 01:08
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	13-Jun-2024 01:08
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	13-Jun-2024 01:08
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	13-Jun-2024 01:08
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	13-Jun-2024 01:08
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	13-Jun-2024 01:08
4-Isopropyltoluene	0.50	U	0.30	0.50	1.0	ug/L	1	13-Jun-2024 01:08
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	13-Jun-2024 01:08
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	13-Jun-2024 01:08
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	13-Jun-2024 01:08
Bromobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	13-Jun-2024 01:08
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	13-Jun-2024 01:08
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	13-Jun-2024 01:08
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	13-Jun-2024 01:08
Bromomethane	0.50	U	0.40	0.50	1.0	ug/L	1	13-Jun-2024 01:08
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	13-Jun-2024 01:08
Carbon tetrachloride	0.50	U	0.50	0.50	1.0	ug/L	1	13-Jun-2024 01:08
Chlorobenzene	0.50	U	0.30	0.50	1.0	ug/L	1	13-Jun-2024 01:08
Chloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	13-Jun-2024 01:08
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	13-Jun-2024 01:08

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
Sample ID: 102_060624_a
Collection Date: 06-Jun-2024 09:15

ANALYTICAL REPORT
WorkOrder:HS24060434
Lab ID:HS24060434-05
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
Chloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	13-Jun-2024 01:08
cis-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	13-Jun-2024 01:08
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	13-Jun-2024 01:08
Dibromochloromethane	0.50	U	0.30	0.50	1.0	ug/L	1	13-Jun-2024 01:08
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	13-Jun-2024 01:08
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	13-Jun-2024 01:08
Ethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	13-Jun-2024 01:08
Hexachlorobutadiene	0.50	U	1.0	0.50	1.0	ug/L	1	13-Jun-2024 01:08
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	13-Jun-2024 01:08
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	13-Jun-2024 01:08
Methylene chloride	0.50	U	0.40	0.50	2.0	ug/L	1	13-Jun-2024 01:08
n-Butylbenzene	0.50	U	0.40	0.50	1.0	ug/L	1	13-Jun-2024 01:08
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	13-Jun-2024 01:08
Naphthalene	0.50	U	0.30	0.50	1.0	ug/L	1	13-Jun-2024 01:08
o-Xylene	0.50	U	0.30	0.50	1.0	ug/L	1	13-Jun-2024 01:08
sec-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	13-Jun-2024 01:08
Styrene	0.50	U	0.30	0.50	1.0	ug/L	1	13-Jun-2024 01:08
tert-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	13-Jun-2024 01:08
Tetrachloroethene	0.50	U	0.30	0.50	1.0	ug/L	1	13-Jun-2024 01:08
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	13-Jun-2024 01:08
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	13-Jun-2024 01:08
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	13-Jun-2024 01:08
Trichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	13-Jun-2024 01:08
Trichlorofluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	13-Jun-2024 01:08
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	13-Jun-2024 01:08
Surr: 1,2-Dichloroethane-d4	*117*			**0**	*81-118*	*%REC*	*1*	*13-Jun-2024 01:08*
Surr: 4-Bromofluorobenzene	*110*			**0**	*85-114*	*%REC*	*1*	*13-Jun-2024 01:08*
Surr: Dibromofluoromethane	*114*			**0**	*80-119*	*%REC*	*1*	*13-Jun-2024 01:08*
Surr: Toluene-d8	*112*			**0**	*89-112*	*%REC*	*1*	*13-Jun-2024 01:08*

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
Sample ID: 102_060624_a
Collection Date: 06-Jun-2024 09:15

ANALYTICAL REPORT
WorkOrder:HS24060434
Lab ID:HS24060434-05
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 13-Jun-2024		Analyst: MSC
Aluminum	**0.254**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	19-Jun-2024 13:57
Antimony	**0.000435**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	19-Jun-2024 13:57
Arsenic	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	19-Jun-2024 13:57
Barium	**0.0796**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	19-Jun-2024 13:57
Beryllium	**0.000389**	J	**0.000200**	**0.000500**	**0.00200**	**mg/L**	1	19-Jun-2024 13:57
Cadmium	**0.000493**	J	**0.000200**	**0.000500**	**0.00200**	**mg/L**	1	19-Jun-2024 13:57
Calcium	**1.93**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	19-Jun-2024 13:57
Chromium	**0.000621**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	19-Jun-2024 13:57
Cobalt	**0.00178**	J	**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	19-Jun-2024 13:57
Copper	**0.00283**	J	**0.00100**	**0.00125**	**0.00500**	**mg/L**	1	19-Jun-2024 13:57
Iron	**0.143**	J	**0.0120**	**0.0500**	**0.200**	**mg/L**	1	19-Jun-2024 13:57
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	19-Jun-2024 13:57
Magnesium	**1.42**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	19-Jun-2024 13:57
Manganese	**0.0196**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	19-Jun-2024 13:57
Nickel	**0.00512**		**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	19-Jun-2024 13:57
Potassium	**0.276**		**0.0180**	**0.0500**	**0.200**	**mg/L**	1	19-Jun-2024 13:57
Selenium	0.00125	U	0.00110	0.00125	0.00500	mg/L	1	19-Jun-2024 13:57
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	19-Jun-2024 13:57
Sodium	**12.8**		**0.0140**	**0.0500**	**0.200**	**mg/L**	1	19-Jun-2024 13:57
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	19-Jun-2024 13:57
Vanadium	**0.00126**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	19-Jun-2024 13:57
Zinc	**0.0181**		**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	19-Jun-2024 13:57
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 18-Jun-2024		Analyst: JS
Mercury	0.000100	U	0.0000300	0.000100	0.000200	mg/L	1	18-Jun-2024 14:31
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	25-Jun-2024 10:20

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
Sample ID: 18CPTMW07_060624
Collection Date: 06-Jun-2024 10:00

ANALYTICAL REPORT
WorkOrder:HS24060434
Lab ID:HS24060434-06
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:23
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 22:23
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	12-Jun-2024 22:23
1,1,2-Trichloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:23
1,1-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 22:23
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 22:23
1,1-Dichloropropene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:23
1,2,3-Trichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	12-Jun-2024 22:23
1,2,3-Trichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	12-Jun-2024 22:23
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	12-Jun-2024 22:23
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:23
1,2-Dibromo-3-chloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 22:23
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 22:23
1,2-Dichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	12-Jun-2024 22:23
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 22:23
1,2-Dichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	12-Jun-2024 22:23
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:23
1,3-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	12-Jun-2024 22:23
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:23
1,4-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	12-Jun-2024 22:23
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 22:23
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	12-Jun-2024 22:23
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:23
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	12-Jun-2024 22:23
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	12-Jun-2024 22:23
4-Isopropyltoluene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:23
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	12-Jun-2024 22:23
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	12-Jun-2024 22:23
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 22:23
Bromobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	12-Jun-2024 22:23
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 22:23
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 22:23
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	12-Jun-2024 22:23
Bromomethane	0.50	U	0.40	0.50	1.0	ug/L	1	12-Jun-2024 22:23
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	12-Jun-2024 22:23
Carbon tetrachloride	0.50	U	0.50	0.50	1.0	ug/L	1	12-Jun-2024 22:23
Chlorobenzene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:23
Chloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:23
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 22:23

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
Sample ID: 18CPTMW07_060624
Collection Date: 06-Jun-2024 10:00

ANALYTICAL REPORT
WorkOrder:HS24060434
Lab ID:HS24060434-06
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
Chloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 22:23
cis-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 22:23
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 22:23
Dibromochloromethane	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:23
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 22:23
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:23
Ethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:23
Hexachlorobutadiene	0.50	U	1.0	0.50	1.0	ug/L	1	12-Jun-2024 22:23
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:23
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	12-Jun-2024 22:23
Methylene chloride	0.50	U	0.40	0.50	2.0	ug/L	1	12-Jun-2024 22:23
n-Butylbenzene	0.50	U	0.40	0.50	1.0	ug/L	1	12-Jun-2024 22:23
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:23
Naphthalene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:23
o-Xylene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:23
sec-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:23
Styrene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:23
tert-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:23
Tetrachloroethene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:23
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 22:23
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 22:23
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 22:23
Trichloroethene	**1.6**		**0.20**	**0.50**	**1.0**	**ug/L**	1	12-Jun-2024 22:23
Trichlorofluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:23
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 22:23
Surr: 1,2-Dichloroethane-d4	*111*			**0**	*81-118*	*%REC*	*1*	*12-Jun-2024 22:23*
Surr: 4-Bromofluorobenzene	*107*			**0**	*85-114*	*%REC*	*1*	*12-Jun-2024 22:23*
Surr: Dibromofluoromethane	*113*			**0**	*80-119*	*%REC*	*1*	*12-Jun-2024 22:23*
Surr: Toluene-d8	*111*			**0**	*89-112*	*%REC*	*1*	*12-Jun-2024 22:23*
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 11-Jun-2024		Analyst: MBG
1,4-Dioxane	0.020	U	0.010	0.020	0.030	ug/L	1	20-Jun-2024 17:24
Surr: 2-Fluorobiphenyl	*95.6*			**0**	*40-140*	*%REC*	*1*	*20-Jun-2024 17:24*
Surr: 4-Terphenyl-d14	*86.3*			**0**	*40-140*	*%REC*	*1*	*20-Jun-2024 17:24*
Surr: Nitrobenzene-d5	*92.8*			**0**	*40-140*	*%REC*	*1*	*20-Jun-2024 17:24*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	25-Jun-2024 10:20

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
Sample ID: 18CPTMW24_060624
Collection Date: 06-Jun-2024 10:45

ANALYTICAL REPORT
WorkOrder:HS24060434
Lab ID:HS24060434-07
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	12	U	7.5	12	25	ug/L	25	13-Jun-2024 00:45
1,1,1-Trichloroethane	12	U	5.0	12	25	ug/L	25	13-Jun-2024 00:45
1,1,2,2-Tetrachloroethane	25	U	12	25	25	ug/L	25	13-Jun-2024 00:45
1,1,2-Trichloroethane	12	U	7.5	12	25	ug/L	25	13-Jun-2024 00:45
1,1-Dichloroethane	12	U	5.0	12	25	ug/L	25	13-Jun-2024 00:45
1,1-Dichloroethene	12	U	5.0	12	25	ug/L	25	13-Jun-2024 00:45
1,1-Dichloropropene	12	U	7.5	12	25	ug/L	25	13-Jun-2024 00:45
1,2,3-Trichlorobenzene	12	U	10	12	25	ug/L	25	13-Jun-2024 00:45
1,2,3-Trichloropropane	12	U	12	12	25	ug/L	25	13-Jun-2024 00:45
1,2,4-Trichlorobenzene	12	U	12	12	25	ug/L	25	13-Jun-2024 00:45
1,2,4-Trimethylbenzene	12	U	7.5	12	25	ug/L	25	13-Jun-2024 00:45
1,2-Dibromo-3-chloropropane	12	U	5.0	12	25	ug/L	25	13-Jun-2024 00:45
1,2-Dibromoethane	12	U	5.0	12	25	ug/L	25	13-Jun-2024 00:45
1,2-Dichlorobenzene	12	U	12	12	25	ug/L	25	13-Jun-2024 00:45
1,2-Dichloroethane	12	U	5.0	12	25	ug/L	25	13-Jun-2024 00:45
1,2-Dichloropropane	12	U	12	12	25	ug/L	25	13-Jun-2024 00:45
1,3,5-Trimethylbenzene	12	U	7.5	12	25	ug/L	25	13-Jun-2024 00:45
1,3-Dichlorobenzene	12	U	10	12	25	ug/L	25	13-Jun-2024 00:45
1,3-Dichloropropane	12	U	7.5	12	25	ug/L	25	13-Jun-2024 00:45
1,4-Dichlorobenzene	12	U	10	12	25	ug/L	25	13-Jun-2024 00:45
2,2-Dichloropropane	12	U	5.0	12	25	ug/L	25	13-Jun-2024 00:45
2-Butanone	25	U	12	25	50	ug/L	25	13-Jun-2024 00:45
2-Chlorotoluene	12	U	7.5	12	25	ug/L	25	13-Jun-2024 00:45
2-Hexanone	25	U	25	25	50	ug/L	25	13-Jun-2024 00:45
4-Chlorotoluene	12	U	10	12	25	ug/L	25	13-Jun-2024 00:45
4-Isopropyltoluene	12	U	7.5	12	25	ug/L	25	13-Jun-2024 00:45
4-Methyl-2-pentanone	25	U	18	25	50	ug/L	25	13-Jun-2024 00:45
Acetone	25	U	10	25	50	ug/L	25	13-Jun-2024 00:45
Benzene	12	U	5.0	12	25	ug/L	25	13-Jun-2024 00:45
Bromobenzene	12	U	10	12	25	ug/L	25	13-Jun-2024 00:45
Bromochloromethane	12	U	5.0	12	25	ug/L	25	13-Jun-2024 00:45
Bromodichloromethane	12	U	5.0	12	25	ug/L	25	13-Jun-2024 00:45
Bromoform	12	U	10	12	25	ug/L	25	13-Jun-2024 00:45
Bromomethane	12	U	10	12	25	ug/L	25	13-Jun-2024 00:45
Carbon disulfide	25	U	15	25	50	ug/L	25	13-Jun-2024 00:45
Carbon tetrachloride	12	U	12	12	25	ug/L	25	13-Jun-2024 00:45
Chlorobenzene	12	U	7.5	12	25	ug/L	25	13-Jun-2024 00:45
Chloroethane	12	U	7.5	12	25	ug/L	25	13-Jun-2024 00:45
Chloroform	12	U	5.0	12	25	ug/L	25	13-Jun-2024 00:45

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
Sample ID: 18CPTMW24_060624
Collection Date: 06-Jun-2024 10:45

ANALYTICAL REPORT
WorkOrder:HS24060434
Lab ID:HS24060434-07
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
Chloromethane	12	U	5.0	12	25	ug/L	25	13-Jun-2024 00:45
cis-1,2-Dichloroethene	**34**		**5.0**	**12**	**25**	**ug/L**	25	13-Jun-2024 00:45
cis-1,3-Dichloropropene	12	U	5.0	12	25	ug/L	25	13-Jun-2024 00:45
Dibromochloromethane	12	U	7.5	12	25	ug/L	25	13-Jun-2024 00:45
Dibromomethane	12	U	5.0	12	25	ug/L	25	13-Jun-2024 00:45
Dichlorodifluoromethane	12	U	7.5	12	25	ug/L	25	13-Jun-2024 00:45
Ethylbenzene	12	U	7.5	12	25	ug/L	25	13-Jun-2024 00:45
Hexachlorobutadiene	12	U	25	12	25	ug/L	25	13-Jun-2024 00:45
Isopropylbenzene	12	U	7.5	12	25	ug/L	25	13-Jun-2024 00:45
m,p-Xylene	25	U	12	25	50	ug/L	25	13-Jun-2024 00:45
Methylene chloride	12	U	10	12	50	ug/L	25	13-Jun-2024 00:45
n-Butylbenzene	12	U	10	12	25	ug/L	25	13-Jun-2024 00:45
n-Propylbenzene	12	U	7.5	12	25	ug/L	25	13-Jun-2024 00:45
Naphthalene	12	U	7.5	12	25	ug/L	25	13-Jun-2024 00:45
o-Xylene	12	U	7.5	12	25	ug/L	25	13-Jun-2024 00:45
sec-Butylbenzene	12	U	7.5	12	25	ug/L	25	13-Jun-2024 00:45
Styrene	12	U	7.5	12	25	ug/L	25	13-Jun-2024 00:45
tert-Butylbenzene	12	U	7.5	12	25	ug/L	25	13-Jun-2024 00:45
Tetrachloroethene	12	U	7.5	12	25	ug/L	25	13-Jun-2024 00:45
Toluene	12	U	5.0	12	25	ug/L	25	13-Jun-2024 00:45
trans-1,2-Dichloroethene	12	U	5.0	12	25	ug/L	25	13-Jun-2024 00:45
trans-1,3-Dichloropropene	12	U	5.0	12	25	ug/L	25	13-Jun-2024 00:45
Trichloroethene	**54**		**5.0**	**12**	**25**	**ug/L**	25	13-Jun-2024 00:45
Trichlorofluoromethane	12	U	7.5	12	25	ug/L	25	13-Jun-2024 00:45
Vinyl chloride	**89**		**5.0**	**12**	**25**	**ug/L**	25	13-Jun-2024 00:45
Surr: 1,2-Dichloroethane-d4	*115*			**0**	*81-118*	*%REC*	*25*	*13-Jun-2024 00:45*
Surr: 4-Bromofluorobenzene	*110*			**0**	*85-114*	*%REC*	*25*	*13-Jun-2024 00:45*
Surr: Dibromofluoromethane	*113*			**0**	*80-119*	*%REC*	*25*	*13-Jun-2024 00:45*
Surr: Toluene-d8	*112*			**0**	*89-112*	*%REC*	*25*	*13-Jun-2024 00:45*
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 11-Jun-2024		Analyst: MBG
1,4-Dioxane	0.020	U	0.010	0.020	0.030	ug/L	1	20-Jun-2024 17:41
Surr: 2-Fluorobiphenyl	*87.6*			**0**	*40-140*	*%REC*	*1*	*20-Jun-2024 17:41*
Surr: 4-Terphenyl-d14	*98.1*			**0**	*40-140*	*%REC*	*1*	*20-Jun-2024 17:41*
Surr: Nitrobenzene-d5	*88.9*			**0**	*40-140*	*%REC*	*1*	*20-Jun-2024 17:41*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	25-Jun-2024 10:20

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
Sample ID: MW8_060624
Collection Date: 06-Jun-2024 11:30

ANALYTICAL REPORT
WorkOrder:HS24060434
Lab ID:HS24060434-08
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
1,1,1,2-Tetrachloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:46
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 22:46
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	12-Jun-2024 22:46
1,1,2-Trichloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:46
1,1-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 22:46
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 22:46
1,1-Dichloropropene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:46
1,2,3-Trichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	12-Jun-2024 22:46
1,2,3-Trichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	12-Jun-2024 22:46
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	12-Jun-2024 22:46
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:46
1,2-Dibromo-3-chloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 22:46
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 22:46
1,2-Dichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	12-Jun-2024 22:46
1,2-Dichloroethane	**6.9**		**0.20**	**0.50**	**1.0**	**ug/L**	1	12-Jun-2024 22:46
1,2-Dichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	12-Jun-2024 22:46
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:46
1,3-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	12-Jun-2024 22:46
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:46
1,4-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	12-Jun-2024 22:46
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 22:46
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	12-Jun-2024 22:46
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:46
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	12-Jun-2024 22:46
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	12-Jun-2024 22:46
4-Isopropyltoluene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:46
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	12-Jun-2024 22:46
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	12-Jun-2024 22:46
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 22:46
Bromobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	12-Jun-2024 22:46
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 22:46
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 22:46
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	12-Jun-2024 22:46
Bromomethane	0.50	U	0.40	0.50	1.0	ug/L	1	12-Jun-2024 22:46
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	12-Jun-2024 22:46
Carbon tetrachloride	0.50	U	0.50	0.50	1.0	ug/L	1	12-Jun-2024 22:46
Chlorobenzene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:46
Chloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:46
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 22:46

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
Sample ID: MW8_060624
Collection Date: 06-Jun-2024 11:30

ANALYTICAL REPORT
WorkOrder:HS24060434
Lab ID:HS24060434-08
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
Chloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 22:46
cis-1,2-Dichloroethene	**20**		**0.20**	**0.50**	**1.0**	**ug/L**	1	12-Jun-2024 22:46
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 22:46
Dibromochloromethane	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:46
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 22:46
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:46
Ethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:46
Hexachlorobutadiene	0.50	U	1.0	0.50	1.0	ug/L	1	12-Jun-2024 22:46
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:46
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	12-Jun-2024 22:46
Methylene chloride	0.50	U	0.40	0.50	2.0	ug/L	1	12-Jun-2024 22:46
n-Butylbenzene	0.50	U	0.40	0.50	1.0	ug/L	1	12-Jun-2024 22:46
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:46
Naphthalene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:46
o-Xylene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:46
sec-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:46
Styrene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:46
tert-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:46
Tetrachloroethene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:46
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 22:46
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 22:46
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 22:46
Trichloroethene	**610**		**5.0**	**12**	**25**	**ug/L**	25	18-Jun-2024 23:04
Trichlorofluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 22:46
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 22:46
Surr: 1,2-Dichloroethane-d4	*117*			**0**	*81-118*	*%REC*	*1*	*12-Jun-2024 22:46*
Surr: 1,2-Dichloroethane-d4	*115*			**0**	*81-118*	*%REC*	*25*	*18-Jun-2024 23:04*
Surr: 4-Bromofluorobenzene	*112*			**0**	*85-114*	*%REC*	*1*	*12-Jun-2024 22:46*
Surr: 4-Bromofluorobenzene	*118*	*S*		**0**	*85-114*	*%REC*	*25*	*18-Jun-2024 23:04*
Surr: Dibromofluoromethane	*118*			**0**	*80-119*	*%REC*	*1*	*12-Jun-2024 22:46*
Surr: Dibromofluoromethane	*114*			**0**	*80-119*	*%REC*	*25*	*18-Jun-2024 23:04*
Surr: Toluene-d8	*111*			**0**	*89-112*	*%REC*	*1*	*12-Jun-2024 22:46*
Surr: Toluene-d8	*122*	*S*		**0**	*89-112*	*%REC*	*25*	*18-Jun-2024 23:04*
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 11-Jun-2024		Analyst: MBG
1,4-Dioxane	**0.45**		**0.010**	**0.020**	**0.030**	**ug/L**	1	20-Jun-2024 17:59
Surr: 2-Fluorobiphenyl	*89.4*			**0**	*40-140*	*%REC*	*1*	*20-Jun-2024 17:59*
Surr: 4-Terphenyl-d14	*83.9*			**0**	*40-140*	*%REC*	*1*	*20-Jun-2024 17:59*
Surr: Nitrobenzene-d5	*67.4*			**0**	*40-140*	*%REC*	*1*	*20-Jun-2024 17:59*

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
Sample ID: MW8_060624
Collection Date: 06-Jun-2024 11:30

ANALYTICAL REPORT
WorkOrder:HS24060434
Lab ID:HS24060434-08
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	25-Jun-2024 10:20

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
Sample ID: 18WW14_060624
Collection Date: 06-Jun-2024 12:20

ANALYTICAL REPORT
WorkOrder:HS24060434
Lab ID:HS24060434-09
Matrix:Groundwater

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 13-Jun-2024		Analyst: MSC
Aluminum	**0.0196**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	19-Jun-2024 13:28
Antimony	**0.00111**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	19-Jun-2024 13:28
Arsenic	**0.000439**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	19-Jun-2024 13:28
Barium	**0.316**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	19-Jun-2024 13:28
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	19-Jun-2024 13:28
Cadmium	**0.000269**	J	**0.000200**	**0.000500**	**0.00200**	**mg/L**	1	19-Jun-2024 13:28
Calcium	**17.7**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	19-Jun-2024 13:28
Chromium	**0.116**		**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	19-Jun-2024 13:28
Cobalt	**0.00194**	J	**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	19-Jun-2024 13:28
Copper	**0.00589**		**0.00100**	**0.00125**	**0.00500**	**mg/L**	1	19-Jun-2024 13:28
Iron	**1.17**		**0.0120**	**0.0500**	**0.200**	**mg/L**	1	19-Jun-2024 13:28
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	19-Jun-2024 13:28
Magnesium	**14.2**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	19-Jun-2024 13:28
Manganese	**0.129**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	19-Jun-2024 13:28
Nickel	**0.137**		**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	19-Jun-2024 13:28
Potassium	**2.28**		**0.0180**	**0.0500**	**0.200**	**mg/L**	1	19-Jun-2024 13:28
Selenium	**0.00148**	J	**0.00110**	**0.00125**	**0.00500**	**mg/L**	1	19-Jun-2024 13:28
Silver	**0.000227**	J	**0.000200**	**0.000500**	**0.00500**	**mg/L**	1	19-Jun-2024 13:28
Sodium	**69.5**		**0.0140**	**0.0500**	**0.200**	**mg/L**	1	19-Jun-2024 13:28
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	19-Jun-2024 13:28
Vanadium	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	19-Jun-2024 13:28
Zinc	**0.0115**		**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	19-Jun-2024 13:28
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 18-Jun-2024		Analyst: JS
Mercury	0.000100	U	0.0000300	0.000100	0.000200	mg/L	1	18-Jun-2024 14:33
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	25-Jun-2024 10:20

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
Sample ID: Trip Blank
Collection Date: 06-Jun-2024 00:00

ANALYTICAL REPORT
WorkOrder:HS24060434
Lab ID:HS24060434-10
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:09
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:09
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	12-Jun-2024 23:09
1,1,2-Trichloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:09
1,1-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:09
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:09
1,1-Dichloropropene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:09
1,2,3-Trichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	12-Jun-2024 23:09
1,2,3-Trichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	12-Jun-2024 23:09
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	12-Jun-2024 23:09
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:09
1,2-Dibromo-3-chloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:09
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:09
1,2-Dichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	12-Jun-2024 23:09
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:09
1,2-Dichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	12-Jun-2024 23:09
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:09
1,3-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	12-Jun-2024 23:09
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:09
1,4-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	12-Jun-2024 23:09
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:09
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	12-Jun-2024 23:09
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:09
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	12-Jun-2024 23:09
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	12-Jun-2024 23:09
4-Isopropyltoluene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:09
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	12-Jun-2024 23:09
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	12-Jun-2024 23:09
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:09
Bromobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	12-Jun-2024 23:09
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:09
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:09
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	12-Jun-2024 23:09
Bromomethane	0.50	U	0.40	0.50	1.0	ug/L	1	12-Jun-2024 23:09
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	12-Jun-2024 23:09
Carbon tetrachloride	0.50	U	0.50	0.50	1.0	ug/L	1	12-Jun-2024 23:09
Chlorobenzene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:09
Chloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:09
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:09

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
Sample ID: Trip Blank
Collection Date: 06-Jun-2024 00:00

ANALYTICAL REPORT
WorkOrder:HS24060434
Lab ID:HS24060434-10
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
Chloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:09
cis-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:09
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:09
Dibromochloromethane	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:09
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:09
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:09
Ethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:09
Hexachlorobutadiene	0.50	U	1.0	0.50	1.0	ug/L	1	12-Jun-2024 23:09
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:09
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	12-Jun-2024 23:09
Methylene chloride	0.50	U	0.40	0.50	2.0	ug/L	1	12-Jun-2024 23:09
n-Butylbenzene	0.50	U	0.40	0.50	1.0	ug/L	1	12-Jun-2024 23:09
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:09
Naphthalene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:09
o-Xylene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:09
sec-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:09
Styrene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:09
tert-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:09
Tetrachloroethene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:09
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:09
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:09
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:09
Trichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:09
Trichlorofluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:09
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:09
Surr: 1,2-Dichloroethane-d4	*115*			**0**	*81-118*	*%REC*	*1*	*12-Jun-2024 23:09*
Surr: 4-Bromofluorobenzene	*110*			**0**	*85-114*	*%REC*	*1*	*12-Jun-2024 23:09*
Surr: Dibromofluoromethane	*118*			**0**	*80-119*	*%REC*	*1*	*12-Jun-2024 23:09*
Surr: Toluene-d8	*111*			**0**	*89-112*	*%REC*	*1*	*12-Jun-2024 23:09*

Note: See Qualifiers Page for a list of qualifiers and their explanation. **Revision:** 1

RIGHT SOLUTIONS | RIGHT PARTNER

Weight / Prep Log

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060434

Batch ID: 213281 **Start Date:** 11 Jun 2024 07:00 **End Date:** 11 Jun 2024 07:00
Method: SV AQ SEP FUN EXTRACT-LOWLEV - 3510C **Prep Code:** 3510_B_SIM

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24060434-01		1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS24060434-02		1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS24060434-03		1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS24060434-06		1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS24060434-07		1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS24060434-08		1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat

Batch ID: 213517 **Start Date:** 13 Jun 2024 16:00 **End Date:** 13 Jun 2024 16:00
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24060434-02		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24060434-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24060434-04		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24060434-05		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24060434-09		10 (mL)	10 (mL)	1	120 plastic HNO3

Batch ID: 213707 **Start Date:** 18 Jun 2024 09:00 **End Date:** 18 Jun 2024 09:00
Method: MERCURY PREP BY 7470A- WATER **Prep Code:** HG_WPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24060434-02		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24060434-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24060434-04		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24060434-05		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24060434-09		10 (mL)	10 (mL)	1	120 plastic HNO3

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060434

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 213281 (0)	**Test Name :** SEMIVOLATILES SIM				**Matrix:** Groundwater	
HS24060434-01	MW2_060624	06 Jun 2024 06:55		11 Jun 2024 07:00	20 Jun 2024 16:32	1
HS24060434-02	18CPTMW01DW_060624	06 Jun 2024 07:40		11 Jun 2024 07:00	20 Jun 2024 16:49	1
HS24060434-03	18CPTMW01SW_060624	06 Jun 2024 08:30		11 Jun 2024 07:00	20 Jun 2024 17:06	1
HS24060434-06	18CPTMW07_060624	06 Jun 2024 10:00		11 Jun 2024 07:00	20 Jun 2024 17:24	1
HS24060434-07	18CPTMW24_060624	06 Jun 2024 10:45		11 Jun 2024 07:00	20 Jun 2024 17:41	1
HS24060434-08	MW8_060624	06 Jun 2024 11:30		11 Jun 2024 07:00	20 Jun 2024 17:59	1
Batch ID: 213517 (0)	**Test Name :** METALS BY ICPMS BY SW6020A				**Matrix:** Groundwater	
HS24060434-02	18CPTMW01DW_060624	06 Jun 2024 07:40		13 Jun 2024 16:00	19 Jun 2024 14:20	100
HS24060434-02	18CPTMW01DW_060624	06 Jun 2024 07:40		13 Jun 2024 16:00	19 Jun 2024 13:45	1
HS24060434-03	18CPTMW01SW_060624	06 Jun 2024 08:30		13 Jun 2024 16:00	19 Jun 2024 13:53	1
HS24060434-04	102_060624	06 Jun 2024 09:15		13 Jun 2024 16:00	19 Jun 2024 13:55	1
HS24060434-05	102_060624_a	06 Jun 2024 09:15		13 Jun 2024 16:00	19 Jun 2024 13:57	1
HS24060434-09	18WW14_060624	06 Jun 2024 12:20		13 Jun 2024 16:00	19 Jun 2024 13:28	1
Batch ID: 213707 (0)	**Test Name :** MERCURY BY SW7470A				**Matrix:** Groundwater	
HS24060434-02	18CPTMW01DW_060624	06 Jun 2024 07:40		18 Jun 2024 09:00	18 Jun 2024 14:26	1
HS24060434-03	18CPTMW01SW_060624	06 Jun 2024 08:30		18 Jun 2024 09:00	18 Jun 2024 14:28	1
HS24060434-04	102_060624	06 Jun 2024 09:15		18 Jun 2024 09:00	18 Jun 2024 14:30	1
HS24060434-05	102_060624_a	06 Jun 2024 09:15		18 Jun 2024 09:00	18 Jun 2024 14:31	1
HS24060434-09	18WW14_060624	06 Jun 2024 12:20		18 Jun 2024 09:00	18 Jun 2024 14:33	1
Batch ID: R469280 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Water	
HS24060434-10	Trip Blank	06 Jun 2024 00:00			12 Jun 2024 23:09	1
Batch ID: R469280 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Groundwater	
HS24060434-01	MW2_060624	06 Jun 2024 06:55			13 Jun 2024 01:31	250
HS24060434-02	18CPTMW01DW_060624	06 Jun 2024 07:40			12 Jun 2024 21:38	1
HS24060434-03	18CPTMW01SW_060624	06 Jun 2024 08:30			13 Jun 2024 01:54	100
HS24060434-04	102_060624	06 Jun 2024 09:15			12 Jun 2024 22:01	1
HS24060434-05	102_060624_a	06 Jun 2024 09:15			13 Jun 2024 01:08	1
HS24060434-06	18CPTMW07_060624	06 Jun 2024 10:00			12 Jun 2024 22:23	1
HS24060434-07	18CPTMW24_060624	06 Jun 2024 10:45			13 Jun 2024 00:45	25
HS24060434-08	MW8_060624	06 Jun 2024 11:30			12 Jun 2024 22:46	1
Batch ID: R469580 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Groundwater	
HS24060434-01	MW2_060624	06 Jun 2024 06:55			15 Jun 2024 21:15	250
Batch ID: R469833 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Groundwater	
HS24060434-08	MW8_060624	06 Jun 2024 11:30			18 Jun 2024 23:04	25

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060434

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R470344 (0)	**Test Name :** SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)				**Matrix:** Groundwater	
HS24060434-01	MW2_060624	06 Jun 2024 06:55			25 Jun 2024 10:20	1
HS24060434-02	18CPTMW01DW_060624	06 Jun 2024 07:40			25 Jun 2024 10:20	1
HS24060434-03	18CPTMW01SW_060624	06 Jun 2024 08:30			25 Jun 2024 10:20	1
HS24060434-04	102_060624	06 Jun 2024 09:15			25 Jun 2024 10:20	1
HS24060434-05	102_060624_a	06 Jun 2024 09:15			25 Jun 2024 10:20	1
HS24060434-06	18CPTMW07_060624	06 Jun 2024 10:00			25 Jun 2024 10:20	1
HS24060434-07	18CPTMW24_060624	06 Jun 2024 10:45			25 Jun 2024 10:20	1
HS24060434-08	MW8_060624	06 Jun 2024 11:30			25 Jun 2024 10:20	1
HS24060434-09	18WW14_060624	06 Jun 2024 12:20			25 Jun 2024 10:20	1

Revision: 1

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060434

QC BATCH REPORT

Batch ID: 213517 (0) **Instrument: ICPMS05** **Method: METALS BY ICPMS BY SW6020A**

MBLK Sample ID: **MBLK-213517** Units: **mg/L** Analysis Date: **19-Jun-2024 12:37**
Client ID: Run ID: **ICPMS05_469846** SeqNo: **8085603** PrepDate: **13-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.00500	0.0100								U
Antimony	0.00125	0.00500								U
Arsenic	0.00125	0.00500								U
Barium	0.00250	0.00500								U
Beryllium	0.000500	0.00200								U
Cadmium	0.000500	0.00200								U
Calcium	0.0500	0.500								U
Chromium	0.00125	0.00500								U
Cobalt	0.000500	0.00500								U
Copper	0.00125	0.00500								U
Iron	0.0500	0.200								U
Lead	0.00125	0.00500								U
Magnesium	0.0500	0.200								U
Manganese	0.00250	0.00500								U
Nickel	0.00125	0.00500								U
Potassium	0.0500	0.200								U
Selenium	0.00125	0.00500								U
Silver	0.000500	0.00500								U
Sodium	0.0500	0.200								U
Thallium	0.000500	0.00200								U
Vanadium	0.00125	0.00500								U
Zinc	0.00250	0.00500								U

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060434

QC BATCH REPORT

Batch ID: 213517 (0) **Instrument: ICPMS05** **Method: METALS BY ICPMS BY SW6020A**

LCS Sample ID: **LCS-213517** Units: **mg/L** Analysis Date: **19-Jun-2024 12:42**
Client ID: Run ID: **ICPMS05_469846** SeqNo: **8085604** PrepDate: **13-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1079	0.0100	0.1	0	108	84 - 117				
Antimony	0.04461	0.00500	0.05	0	89.2	85 - 117				
Arsenic	0.04507	0.00500	0.05	0	90.1	84 - 116				
Barium	0.04712	0.00500	0.05	0	94.2	86 - 114				
Beryllium	0.04443	0.00200	0.05	0	88.9	83 - 121				
Cadmium	0.04644	0.00200	0.05	0	92.9	87 - 115				
Calcium	4.72	0.500	5	0	94.4	87 - 118				
Chromium	0.0466	0.00500	0.05	0	93.2	85 - 116				
Cobalt	0.04667	0.00500	0.05	0	93.3	86 - 115				
Copper	0.04738	0.00500	0.05	0	94.8	85 - 118				
Iron	4.766	0.200	5	0	95.3	87 - 118				
Lead	0.04671	0.00500	0.05	0	93.4	88 - 115				
Magnesium	4.542	0.200	5	0	90.8	83 - 118				
Manganese	0.0499	0.00500	0.05	0	99.8	87 - 115				
Nickel	0.04697	0.00500	0.05	0	93.9	85 - 117				
Potassium	4.67	0.200	5	0	93.4	87 - 115				
Selenium	0.04638	0.00500	0.05	0	92.8	80 - 120				
Silver	0.0461	0.00500	0.05	0	92.2	85 - 116				
Sodium	4.637	0.200	5	0	92.7	85 - 117				
Thallium	0.04622	0.00200	0.05	0	92.4	82 - 116				
Vanadium	0.04553	0.00500	0.05	0	91.1	86 - 115				
Zinc	0.0476	0.00500	0.05	0	95.2	83 - 119				

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060434

QC BATCH REPORT

Batch ID: 213517 (0) **Instrument: ICPMS05** **Method: METALS BY ICPMS BY SW6020A**

MS Sample ID: **HS24060434-09MS** Units: **mg/L** Analysis Date: **19-Jun-2024 13:32**
Client ID: **18WW14_060624** Run ID: **ICPMS05_469846** SeqNo: **8085856** PrepDate: **13-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1058	0.0100	0.1	0.01964	86.2	84 - 117				
Antimony	0.04446	0.00500	0.05	0.001111	86.7	85 - 117				
Arsenic	0.0442	0.00500	0.05	0.000439	87.5	84 - 116				
Barium	0.3497	0.00500	0.05	0.3155	68.3	86 - 114				SO
Beryllium	0.04265	0.00200	0.05	0.000106	85.1	83 - 121				
Cadmium	0.04459	0.00200	0.05	0.000269	88.6	87 - 115				
Calcium	21.37	0.500	5	17.69	73.7	87 - 118				S
Chromium	0.1556	0.00500	0.05	0.1162	78.9	85 - 116				S
Cobalt	0.04545	0.00500	0.05	0.001942	87.0	86 - 115				
Copper	0.04916	0.00500	0.05	0.005888	86.5	85 - 118				
Iron	5.905	0.200	5	1.17	94.7	87 - 118				
Lead	0.04454	0.00500	0.05	0.000123	88.8	88 - 115				
Magnesium	18.23	0.200	5	14.2	80.5	83 - 118				S
Manganese	0.168	0.00500	0.05	0.1291	77.8	87 - 115				S
Nickel	0.1734	0.00500	0.05	0.1368	73.2	85 - 117				S
Potassium	7.157	0.200	5	2.278	97.6	87 - 115				
Selenium	0.04378	0.00500	0.05	0.00148	84.6	80 - 120				
Silver	0.04283	0.00500	0.05	0.000227	85.2	85 - 116				
Sodium	71.42	0.200	5	69.48	38.7	85 - 117				SO
Thallium	0.04408	0.00200	0.05	0.00012	87.9	82 - 116				
Vanadium	0.04081	0.00500	0.05	-0.002788	87.2	86 - 115				
Zinc	0.05392	0.00500	0.05	0.01153	84.8	83 - 119				

Revision: 1

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060434

QC BATCH REPORT

Batch ID: 213517 (0) **Instrument: ICPMS05** **Method: METALS BY ICPMS BY SW6020A**

MSD Sample ID: **HS24060434-09MSD** Units: **mg/L** Analysis Date: **19-Jun-2024 13:34**
Client ID: **18WW14_060624** Run ID: **ICPMS05_469846** SeqNo: **8085857** PrepDate: **13-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1067	0.0100	0.1	0.01964	87.0	84 - 117	0.1058	0.773	20	
Antimony	0.04533	0.00500	0.05	0.001111	88.4	85 - 117	0.04446	1.94	20	
Arsenic	0.04442	0.00500	0.05	0.000439	88.0	84 - 116	0.0442	0.497	20	
Barium	0.3581	0.00500	0.05	0.3155	85.2	86 - 114	0.3497	2.38	20	SO
Beryllium	0.04415	0.00200	0.05	0.000106	88.1	83 - 121	0.04265	3.45	20	
Cadmium	0.0453	0.00200	0.05	0.000269	90.1	87 - 115	0.04459	1.57	20	
Calcium	22.03	0.500	5	17.69	86.9	87 - 118	21.37	3.05	20	S
Chromium	0.1582	0.00500	0.05	0.1162	84.1	85 - 116	0.1556	1.66	20	S
Cobalt	0.04683	0.00500	0.05	0.001942	89.8	86 - 115	0.04545	2.99	20	
Copper	0.05017	0.00500	0.05	0.005888	88.6	85 - 118	0.04916	2.03	20	
Iron	6.056	0.200	5	1.17	97.7	87 - 118	5.905	2.52	20	
Lead	0.04574	0.00500	0.05	0.000123	91.2	88 - 115	0.04454	2.66	20	
Magnesium	18.64	0.200	5	14.2	88.7	83 - 118	18.23	2.23	20	
Manganese	0.1731	0.00500	0.05	0.1291	88.0	87 - 115	0.168	3.02	20	
Nickel	0.1777	0.00500	0.05	0.1368	81.8	85 - 117	0.1734	2.45	20	S
Potassium	7.272	0.200	5	2.278	99.9	87 - 115	7.157	1.59	20	
Selenium	0.04376	0.00500	0.05	0.00148	84.6	80 - 120	0.04378	0.0228	20	
Silver	0.04315	0.00500	0.05	0.000227	85.8	85 - 116	0.04283	0.754	20	
Sodium	73.98	0.200	5	69.48	90.0	85 - 117	71.42	3.53	20	O
Thallium	0.04557	0.00200	0.05	0.00012	90.9	82 - 116	0.04408	3.31	20	
Vanadium	0.04025	0.00500	0.05	-0.002788	86.1	86 - 115	0.04081	1.38	20	
Zinc	0.05391	0.00500	0.05	0.01153	84.8	83 - 119	0.05392	0.0223	20	

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060434

QC BATCH REPORT

Batch ID: 213517 (0) **Instrument: ICPMS05** **Method: METALS BY ICPMS BY SW6020A**

PDS Sample ID: **HS24060434-09PDS** Units: **mg/L** Analysis Date: **19-Jun-2024 13:36**
Client ID: **18WW14_060624** Run ID: **ICPMS05_469846** SeqNo: **8085858** PrepDate: **13-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1054	0.0100	0.1	0.01964	85.7	80 - 120				
Antimony	0.08953	0.00500	0.1	0.001111	88.4	80 - 120				
Arsenic	0.09139	0.00500	0.1	0.000439	91.0	80 - 120				
Barium	0.4203	0.00500	0.1	0.3155	105	80 - 120				
Beryllium	0.08421	0.00200	0.1	0.000106	84.1	80 - 120				
Cadmium	0.09144	0.00200	0.1	0.000269	91.2	80 - 120				
Calcium	26.8	0.500	10	17.69	91.1	80 - 120				
Chromium	0.2081	0.00500	0.1	0.1162	91.9	80 - 120				
Cobalt	0.09219	0.00500	0.1	0.001942	90.2	80 - 120				
Copper	0.09622	0.00500	0.1	0.005888	90.3	80 - 120				
Iron	11.25	0.200	10	1.17	101	80 - 120				
Lead	0.09422	0.00500	0.1	0.000123	94.1	80 - 120				
Magnesium	23.87	0.200	10	14.2	96.6	80 - 120				
Manganese	0.2236	0.00500	0.1	0.1291	94.5	80 - 120				
Nickel	0.2273	0.00500	0.1	0.1368	90.5	80 - 120				
Potassium	12.27	0.200	10	2.278	99.9	80 - 120				
Selenium	0.09181	0.00500	0.1	0.00148	90.3	80 - 120				
Silver	0.09016	0.00500	0.1	0.000227	89.9	80 - 120				
Sodium	81.56	0.200	10	69.48	121	80 - 120				SO
Thallium	0.09376	0.00200	0.1	0.00012	93.6	80 - 120				
Vanadium	0.08561	0.00500	0.1	-0.002788	88.4	80 - 120				
Zinc	0.1015	0.00500	0.1	0.01153	90.0	80 - 120				

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060434

QC BATCH REPORT

Batch ID: 213517 (0) **Instrument: ICPMS05** **Method: METALS BY ICPMS BY SW6020A**

SD Sample ID: **HS24060434-09SD** Units: **mg/L** Analysis Date: **19-Jun-2024 13:30**
Client ID: **18WW14_060624** Run ID: **ICPMS05_469846** SeqNo: **8085855** PrepDate: **13-Jun-2024** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Aluminum	0.01336	0.0500					0.01964	0	10	J
Antimony	0.002317	0.0250					0.001111	0	10	J
Arsenic	0.00625	0.0250					0.000439	0	10	U
Barium	0.3108	0.0250					0.3155	1.49	10	
Beryllium	0.00250	0.0100					0.000106	0	10	U
Cadmium	0.00250	0.0100					0.000269	0	10	U
Calcium	17.73	2.50					17.69	0.254	10	
Chromium	0.1144	0.0250					0.1162	1.59	10	
Cobalt	0.002001	0.0250					0.001942	0	10	J
Copper	0.006162	0.0250					0.005888	0	10	J
Iron	1.068	1.00					1.17	8.68	10	
Lead	0.00625	0.0250					0.000123	0	10	U
Magnesium	13.27	1.00					14.2	6.59	10	
Manganese	0.1306	0.0250					0.1291	1.14	10	
Nickel	0.1412	0.0250					0.1368	3.18	10	
Potassium	2.35	1.00					2.278	3.13	10	
Selenium	0.00625	0.0250					0.00148	0	10	U
Silver	0.00250	0.0250					0.000227	0	10	U
Sodium	72.23	1.00					69.48	3.95	10	
Thallium	0.00250	0.0100					0.00012	0	10	U
Vanadium	0.00625	0.0250					-0.002788	0	10	U
Zinc	0.01233	0.0250					0.01153	0	10	J

The following samples were analyzed in this batch: HS24060434-02 HS24060434-03 HS24060434-04 HS24060434-05 HS24060434-09

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060434

QC BATCH REPORT

Batch ID: 213707 (0) **Instrument: HG04** **Method: MERCURY BY SW7470A**

MBLK Sample ID: **MBLK-213707** Units: **mg/L** Analysis Date: **18-Jun-2024 14:14**
Client ID: Run ID: **HG04_469750** SeqNo: **8083423** PrepDate: **18-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.000100	0.000200								U

LCS Sample ID: **LCS-213707** Units: **mg/L** Analysis Date: **18-Jun-2024 14:16**
Client ID: Run ID: **HG04_469750** SeqNo: **8083424** PrepDate: **18-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00421	0.000200	0.005	0	84.2	82 - 119				

MS Sample ID: **HS24060434-09MS** Units: **mg/L** Analysis Date: **18-Jun-2024 14:35**
Client ID: **18WW14_060624** Run ID: **HG04_469750** SeqNo: **8083435** PrepDate: **18-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00441	0.000200	0.005	-0.00001100	88.4	82 - 119				

MSD Sample ID: **HS24060434-09MSD** Units: **mg/L** Analysis Date: **18-Jun-2024 14:37**
Client ID: **18WW14_060624** Run ID: **HG04_469750** SeqNo: **8083436** PrepDate: **18-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00438	0.000200	0.005	-0.00001100	87.8	82 - 119	0.004410	0.683	20	

The following samples were analyzed in this batch: HS24060434-02 HS24060434-03 HS24060434-04 HS24060434-05 HS24060434-09

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060434

QC BATCH REPORT

Batch ID: 213281 (0) **Instrument: SV-6** **Method: SEMIVOLATILES SIM**

MBLK Sample ID: **MBLK-213281** Units: **ug/L** Analysis Date: **20-Jun-2024 15:39**
Client ID: Run ID: **SV-6_470076** SeqNo: **8090411** PrepDate: **11-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.020	0.030								U
Surr: 2-Fluorobiphenyl	*0.06622*	*0*	*0.08*	*0*	*82.8*	*40 - 140*				
Surr: 4-Terphenyl-d14	*0.07136*	*0*	*0.08*	*0*	*89.2*	*40 - 140*				
Surr: Nitrobenzene-d5	*0.06596*	*0*	*0.08*	*0*	*82.4*	*40 - 140*				

LCS Sample ID: **LCS-213281** Units: **ug/L** Analysis Date: **20-Jun-2024 15:56**
Client ID: Run ID: **SV-6_470076** SeqNo: **8090412** PrepDate: **11-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.0878	0.030	0.08	0	110	40 - 140				
Surr: 2-Fluorobiphenyl	*0.07302*	*0*	*0.08*	*0*	*91.3*	*40 - 140*				
Surr: 4-Terphenyl-d14	*0.06839*	*0*	*0.08*	*0*	*85.5*	*40 - 140*				
Surr: Nitrobenzene-d5	*0.06417*	*0*	*0.08*	*0*	*80.2*	*40 - 140*				

LCSD Sample ID: **LCSD-213281** Units: **ug/L** Analysis Date: **20-Jun-2024 16:14**
Client ID: Run ID: **SV-6_470076** SeqNo: **8090413** PrepDate: **11-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.07841	0.030	0.08	0	98.0	40 - 140	0.0878	11.3	20	
Surr: 2-Fluorobiphenyl	*0.07371*	*0*	*0.08*	*0*	*92.1*	*40 - 140*	*0.07302*	*0.934*	*20*	
Surr: 4-Terphenyl-d14	*0.07881*	*0*	*0.08*	*0*	*98.5*	*40 - 140*	*0.06839*	*14.1*	*20*	
Surr: Nitrobenzene-d5	*0.0648*	*0*	*0.08*	*0*	*81.0*	*40 - 140*	*0.06417*	*0.978*	*20*	

The following samples were analyzed in this batch: HS24060434-01 HS24060434-02 HS24060434-03 HS24060434-06 HS24060434-07 HS24060434-08

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060434

QC BATCH REPORT

Batch ID: R469280 (0) **Instrument:** VOA7 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-240612** Units: **ug/L** Analysis Date: **12-Jun-2024 17:26**
Client ID: Run ID: **VOA7_469280** SeqNo: **8067977** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	0.50	1.0								U
1,1,1-Trichloroethane	0.50	1.0								U
1,1,2,2-Tetrachloroethane	1.0	1.0								U
1,1,2-Trichloroethane	0.50	1.0								U
1,1-Dichloroethane	0.50	1.0								U
1,1-Dichloroethene	0.50	1.0								U
1,1-Dichloropropene	0.50	1.0								U
1,2,3-Trichlorobenzene	0.50	1.0								U
1,2,3-Trichloropropane	0.50	1.0								U
1,2,4-Trichlorobenzene	0.50	1.0								U
1,2,4-Trimethylbenzene	0.50	1.0								U
1,2-Dibromo-3-chloropropane	0.50	1.0								U
1,2-Dibromoethane	0.50	1.0								U
1,2-Dichlorobenzene	0.50	1.0								U
1,2-Dichloroethane	0.50	1.0								U
1,2-Dichloropropane	0.50	1.0								U
1,3,5-Trimethylbenzene	0.50	1.0								U
1,3-Dichlorobenzene	0.50	1.0								U
1,3-Dichloropropane	0.50	1.0								U
1,4-Dichlorobenzene	0.50	1.0								U
2,2-Dichloropropane	0.50	1.0								U
2-Butanone	1.0	2.0								U
2-Chlorotoluene	0.50	1.0								U
2-Hexanone	1.0	2.0								U
4-Chlorotoluene	0.50	1.0								U
4-Isopropyltoluene	0.50	1.0								U
4-Methyl-2-pentanone	1.0	2.0								U
Acetone	1.0	2.0								U
Benzene	0.50	1.0								U
Bromobenzene	0.50	1.0								U
Bromochloromethane	0.50	1.0								U
Bromodichloromethane	0.50	1.0								U
Bromoform	0.50	1.0								U
Bromomethane	0.50	1.0								U

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060434

QC BATCH REPORT

Batch ID: R469280 (0) **Instrument:** VOA7 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-240612** Units: **ug/L** Analysis Date: **12-Jun-2024 17:26**
Client ID: Run ID: **VOA7_469280** SeqNo: **8067977** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	1.0	2.0								U
Carbon tetrachloride	0.50	1.0								U
Chlorobenzene	0.50	1.0								U
Chloroethane	0.50	1.0								U
Chloroform	0.50	1.0								U
Chloromethane	0.50	1.0								U
cis-1,2-Dichloroethene	0.50	1.0								U
cis-1,3-Dichloropropene	0.50	1.0								U
Dibromochloromethane	0.50	1.0								U
Dibromomethane	0.50	1.0								U
Dichlorodifluoromethane	0.50	1.0								U
Ethylbenzene	0.50	1.0								U
Hexachlorobutadiene	0.50	1.0								U
Isopropylbenzene	0.50	1.0								U
m,p-Xylene	1.0	2.0								U
Methylene chloride	0.50	2.0								U
Naphthalene	0.50	1.0								U
n-Butylbenzene	0.50	1.0								U
n-Propylbenzene	0.50	1.0								U
o-Xylene	0.50	1.0								U
sec-Butylbenzene	0.50	1.0								U
Styrene	0.50	1.0								U
tert-Butylbenzene	0.50	1.0								U
Tetrachloroethene	0.50	1.0								U
Toluene	0.50	1.0								U
trans-1,2-Dichloroethene	0.50	1.0								U
trans-1,3-Dichloropropene	0.50	1.0								U
Trichloroethene	0.50	1.0								U
Trichlorofluoromethane	0.50	1.0								U
Vinyl chloride	0.50	1.0								U
Surr: 1,2-Dichloroethane-d4	*55.8*	*35*	*50*	*0*	*112*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*48.58*	*35*	*50*	*0*	*97.2*	*85 - 114*				
Surr: Dibromofluoromethane	*56.06*	*35*	*50*	*0*	*112*	*80 - 119*				
Surr: Toluene-d8	*53.79*	*35*	*50*	*0*	*108*	*89 - 112*				

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060434

QC BATCH REPORT

Batch ID: R469280 (0) **Instrument:** VOA7 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCS Sample ID: **VLCSW-240612** Units: **ug/L** Analysis Date: **12-Jun-2024 16:40**
Client ID: Run ID: **VOA7_469280** SeqNo: **8067975** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	19.55	1.0	20	0	97.7	78 - 124				
1,1,1-Trichloroethane	19.28	1.0	20	0	96.4	74 - 131				
1,1,2,2-Tetrachloroethane	20.71	1.0	20	0	104	71 - 121				
1,1,2-Trichloroethane	19.88	1.0	20	0	99.4	80 - 119				
1,1-Dichloroethane	19.8	1.0	20	0	99.0	77 - 125				
1,1-Dichloroethene	19.56	1.0	20	0	97.8	71 - 131				
1,1-Dichloropropene	19.95	1.0	20	0	99.8	78 - 125				
1,2,3-Trichlorobenzene	23.51	1.0	20	0	118	69 - 129				
1,2,3-Trichloropropane	20.86	1.0	20	0	104	73 - 122				
1,2,4-Trichlorobenzene	22.28	1.0	20	0	111	69 - 130				
1,2,4-Trimethylbenzene	21.34	1.0	20	0	107	76 - 124				
1,2-Dibromo-3-chloropropane	20.51	1.0	20	0	103	62 - 128				
1,2-Dibromoethane	20.09	1.0	20	0	100	77 - 121				
1,2-Dichlorobenzene	20.85	1.0	20	0	104	80 - 119				
1,2-Dichloroethane	19.85	1.0	20	0	99.3	73 - 128				
1,2-Dichloropropane	20.24	1.0	20	0	101	78 - 122				
1,3,5-Trimethylbenzene	20.84	1.0	20	0	104	75 - 124				
1,3-Dichlorobenzene	20.98	1.0	20	0	105	80 - 119				
1,3-Dichloropropane	20.03	1.0	20	0	100	80 - 119				
1,4-Dichlorobenzene	20.93	1.0	20	0	105	79 - 118				
2,2-Dichloropropane	18.8	1.0	20	0	94.0	60 - 139				
2-Butanone	43.13	2.0	40	0	108	56 - 143				
2-Chlorotoluene	21.02	1.0	20	0	105	79 - 122				
2-Hexanone	41.1	2.0	40	0	103	57 - 139				
4-Chlorotoluene	20.78	1.0	20	0	104	78 - 122				
4-Isopropyltoluene	19.83	1.0	20	0	99.1	77 - 127				
4-Methyl-2-pentanone	41.84	2.0	40	0	105	67 - 130				
Acetone	39.58	2.0	40	0	98.9	39 - 160				
Benzene	20.33	1.0	20	0	102	79 - 120				
Bromobenzene	20.7	1.0	20	0	103	80 - 120				
Bromochloromethane	19.56	1.0	20	0	97.8	78 - 123				
Bromodichloromethane	19.31	1.0	20	0	96.5	79 - 125				
Bromoform	19.7	1.0	20	0	98.5	66 - 130				
Bromomethane	18.57	1.0	20	0	92.8	53 - 141				

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060434

QC BATCH REPORT

Batch ID: R469280 (0) **Instrument:** VOA7 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCS Sample ID: **VLCSW-240612** Units: **ug/L** Analysis Date: **12-Jun-2024 16:40**
Client ID: Run ID: **VOA7_469280** SeqNo: **8067975** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	40.11	2.0	40	0	100	64 - 133				
Carbon tetrachloride	19.02	1.0	20	0	95.1	72 - 136				
Chlorobenzene	20.1	1.0	20	0	101	82 - 118				
Chloroethane	20.12	1.0	20	0	101	60 - 138				
Chloroform	19.72	1.0	20	0	98.6	79 - 124				
Chloromethane	19.95	1.0	20	0	99.8	50 - 139				
cis-1,2-Dichloroethene	19.81	1.0	20	0	99.0	78 - 123				
cis-1,3-Dichloropropene	19.66	1.0	20	0	98.3	75 - 124				
Dibromochloromethane	19.45	1.0	20	0	97.3	74 - 126				
Dibromomethane	20.03	1.0	20	0	100	79 - 123				
Dichlorodifluoromethane	19.19	1.0	20	0	96.0	32 - 152				
Ethylbenzene	20.26	1.0	20	0	101	79 - 121				
Hexachlorobutadiene	25.2	1.0	20	0	126	66 - 134				
Isopropylbenzene	20.33	1.0	20	0	102	72 - 131				
m,p-Xylene	41.1	2.0	40	0	103	80 - 121				
Methylene chloride	20.22	2.0	20	0	101	74 - 124				
Naphthalene	22.91	1.0	20	0	115	61 - 128				
n-Butylbenzene	20.75	1.0	20	0	104	75 - 128				
n-Propylbenzene	20.95	1.0	20	0	105	76 - 126				
o-Xylene	20.34	1.0	20	0	102	78 - 122				
sec-Butylbenzene	21.44	1.0	20	0	107	77 - 126				
Styrene	20.43	1.0	20	0	102	78 - 123				
tert-Butylbenzene	21.31	1.0	20	0	107	78 - 124				
Tetrachloroethene	19.73	1.0	20	0	98.6	74 - 129				
Toluene	20.25	1.0	20	0	101	80 - 121				
trans-1,2-Dichloroethene	18.94	1.0	20	0	94.7	75 - 124				
trans-1,3-Dichloropropene	19.66	1.0	20	0	98.3	73 - 127				
Trichloroethene	20.39	1.0	20	0	102	79 - 123				
Trichlorofluoromethane	19.27	1.0	20	0	96.3	65 - 141				
Vinyl chloride	20.41	1.0	20	0	102	58 - 137				
Surr: 1,2-Dichloroethane-d4	*51.13*	*35*	*50*	*0*	*102*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*50.7*	*35*	*50*	*0*	*101*	*85 - 114*				
Surr: Dibromofluoromethane	*49.54*	*35*	*50*	*0*	*99.1*	*80 - 119*				
Surr: Toluene-d8	*52.27*	*35*	*50*	*0*	*105*	*89 - 112*				

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060434

QC BATCH REPORT

Batch ID: R469280 (0) **Instrument:** VOA7 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCSD Sample ID: **VLSDW-240612** Units: **ug/L** Analysis Date: **12-Jun-2024 17:03**
Client ID: Run ID: **VOA7_469280** SeqNo: **8067976** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	20.21	1.0	20	0	101	78 - 124	19.55	3.34	20	
1,1,1-Trichloroethane	18.88	1.0	20	0	94.4	74 - 131	19.28	2.06	20	
1,1,2,2-Tetrachloroethane	22.05	1.0	20	0	110	71 - 121	20.71	6.28	20	
1,1,2-Trichloroethane	20.77	1.0	20	0	104	80 - 119	19.88	4.41	20	
1,1-Dichloroethane	19.75	1.0	20	0	98.7	77 - 125	19.8	0.243	20	
1,1-Dichloroethene	18.81	1.0	20	0	94.0	71 - 131	19.56	3.95	20	
1,1-Dichloropropene	19.05	1.0	20	0	95.2	78 - 125	19.95	4.63	20	
1,2,3-Trichlorobenzene	22.47	1.0	20	0	112	69 - 129	23.51	4.53	20	
1,2,3-Trichloropropane	22.52	1.0	20	0	113	73 - 122	20.86	7.67	20	
1,2,4-Trichlorobenzene	22.81	1.0	20	0	114	69 - 130	22.28	2.37	20	
1,2,4-Trimethylbenzene	22.05	1.0	20	0	110	76 - 124	21.34	3.29	20	
1,2-Dibromo-3-chloropropane	20.93	1.0	20	0	105	62 - 128	20.51	2	20	
1,2-Dibromoethane	20.96	1.0	20	0	105	77 - 121	20.09	4.25	20	
1,2-Dichlorobenzene	21.83	1.0	20	0	109	80 - 119	20.85	4.59	20	
1,2-Dichloroethane	19.5	1.0	20	0	97.5	73 - 128	19.85	1.82	20	
1,2-Dichloropropane	19.5	1.0	20	0	97.5	78 - 122	20.24	3.72	20	
1,3,5-Trimethylbenzene	21.49	1.0	20	0	107	75 - 124	20.84	3.03	20	
1,3-Dichlorobenzene	22.08	1.0	20	0	110	80 - 119	20.98	5.14	20	
1,3-Dichloropropane	20.92	1.0	20	0	105	80 - 119	20.03	4.37	20	
1,4-Dichlorobenzene	21.6	1.0	20	0	108	79 - 118	20.93	3.14	20	
2,2-Dichloropropane	18.29	1.0	20	0	91.4	60 - 139	18.8	2.79	20	
2-Butanone	39.51	2.0	40	0	98.8	56 - 143	43.13	8.75	20	
2-Chlorotoluene	22.11	1.0	20	0	111	79 - 122	21.02	5.04	20	
2-Hexanone	42.17	2.0	40	0	105	57 - 139	41.1	2.58	20	
4-Chlorotoluene	21.77	1.0	20	0	109	78 - 122	20.78	4.63	20	
4-Isopropyltoluene	19.86	1.0	20	0	99.3	77 - 127	19.83	0.168	20	
4-Methyl-2-pentanone	42.17	2.0	40	0	105	67 - 130	41.84	0.792	20	
Acetone	41.39	2.0	40	0	103	39 - 160	39.58	4.47	20	
Benzene	19.53	1.0	20	0	97.6	79 - 120	20.33	4.01	20	
Bromobenzene	21.88	1.0	20	0	109	80 - 120	20.7	5.56	20	
Bromochloromethane	19.63	1.0	20	0	98.2	78 - 123	19.56	0.392	20	
Bromodichloromethane	19.13	1.0	20	0	95.7	79 - 125	19.31	0.906	20	
Bromoform	20.52	1.0	20	0	103	66 - 130	19.7	4.1	20	
Bromomethane	18.59	1.0	20	0	93.0	53 - 141	18.57	0.141	20	

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060434

QC BATCH REPORT

Batch ID: R469280 (0) **Instrument:** VOA7 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCSD Sample ID: **VLSDW-240612** Units: **ug/L** Analysis Date: **12-Jun-2024 17:03**
Client ID: Run ID: **VOA7_469280** SeqNo: **8067976** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Carbon disulfide	38.51	2.0	40	0	96.3	64 - 133	40.11	4.07	20	
Carbon tetrachloride	18.45	1.0	20	0	92.3	72 - 136	19.02	3.01	20	
Chlorobenzene	20.55	1.0	20	0	103	82 - 118	20.1	2.18	20	
Chloroethane	19.44	1.0	20	0	97.2	60 - 138	20.12	3.41	20	
Chloroform	19.11	1.0	20	0	95.6	79 - 124	19.72	3.11	20	
Chloromethane	19.83	1.0	20	0	99.2	50 - 139	19.95	0.597	20	
cis-1,2-Dichloroethene	19.55	1.0	20	0	97.7	78 - 123	19.81	1.31	20	
cis-1,3-Dichloropropene	19.09	1.0	20	0	95.5	75 - 124	19.66	2.91	20	
Dibromochloromethane	20.01	1.0	20	0	100	74 - 126	19.45	2.82	20	
Dibromomethane	19.96	1.0	20	0	99.8	79 - 123	20.03	0.332	20	
Dichlorodifluoromethane	18.63	1.0	20	0	93.2	32 - 152	19.19	2.96	20	
Ethylbenzene	20.25	1.0	20	0	101	79 - 121	20.26	0.0722	20	
Hexachlorobutadiene	23.8	1.0	20	0	119	66 - 134	25.2	5.68	20	
Isopropylbenzene	20.39	1.0	20	0	102	72 - 131	20.33	0.3	20	
m,p-Xylene	40.73	2.0	40	0	102	80 - 121	41.1	0.894	20	
Methylene chloride	19.85	2.0	20	0	99.3	74 - 124	20.22	1.85	20	
Naphthalene	22.96	1.0	20	0	115	61 - 128	22.91	0.224	20	
n-Butylbenzene	21.03	1.0	20	0	105	75 - 128	20.75	1.34	20	
n-Propylbenzene	21.7	1.0	20	0	108	76 - 126	20.95	3.48	20	
o-Xylene	20.65	1.0	20	0	103	78 - 122	20.34	1.49	20	
sec-Butylbenzene	21.66	1.0	20	0	108	77 - 126	21.44	1.05	20	
Styrene	20.55	1.0	20	0	103	78 - 123	20.43	0.597	20	
tert-Butylbenzene	22.04	1.0	20	0	110	78 - 124	21.31	3.36	20	
Tetrachloroethene	19.96	1.0	20	0	99.8	74 - 129	19.73	1.16	20	
Toluene	20.21	1.0	20	0	101	80 - 121	20.25	0.172	20	
trans-1,2-Dichloroethene	18.35	1.0	20	0	91.7	75 - 124	18.94	3.16	20	
trans-1,3-Dichloropropene	19.09	1.0	20	0	95.5	73 - 127	19.66	2.91	20	
Trichloroethene	19.3	1.0	20	0	96.5	79 - 123	20.39	5.5	20	
Trichlorofluoromethane	18.93	1.0	20	0	94.7	65 - 141	19.27	1.74	20	
Vinyl chloride	19.25	1.0	20	0	96.3	58 - 137	20.41	5.84	20	
Surr: 1,2-Dichloroethane-d4	*51.22*	*35*	*50*	*0*	*102*	*81 - 118*	*51.13*	*0.171*	*20*	
Surr: 4-Bromofluorobenzene	*51.55*	*35*	*50*	*0*	*103*	*85 - 114*	*50.7*	*1.66*	*20*	
Surr: Dibromofluoromethane	*49.24*	*35*	*50*	*0*	*98.5*	*80 - 119*	*49.54*	*0.621*	*20*	
Surr: Toluene-d8	*52.57*	*35*	*50*	*0*	*105*	*89 - 112*	*52.27*	*0.571*	*20*	

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060434

QC BATCH REPORT

Batch ID: R469280 (0) **Instrument:** VOA7 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS24060214-10MS** Units: **ug/L** Analysis Date: **12-Jun-2024 19:20**
Client ID: Run ID: **VOA7_469280** SeqNo: **8067979** PrepDate: DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
1,1,1,2-Tetrachloroethane	1596	100	2000	0	79.8	78 - 124			
1,1,1-Trichloroethane	1739	100	2000	0	87.0	74 - 131			
1,1,2,2-Tetrachloroethane	1440	100	2000	0	72.0	71 - 121			
1,1,2-Trichloroethane	1524	100	2000	0	76.2	80 - 119			S
1,1-Dichloroethane	1730	100	2000	0	86.5	77 - 125			
1,1-Dichloroethene	2151	100	2000	189.3	98.1	71 - 131			
1,1-Dichloropropene	1754	100	2000	0	87.7	78 - 125			
1,2,3-Trichlorobenzene	1277	100	2000	0	63.9	69 - 129			S
1,2,3-Trichloropropane	1473	100	2000	2751	-63.9	73 - 122			S
1,2,4-Trichlorobenzene	1389	100	2000	51.18	66.9	69 - 130			S
1,2,4-Trimethylbenzene	1596	100	2000	0	79.8	76 - 124			
1,2-Dibromo-3-chloropropane	1273	100	2000	0	63.6	62 - 128			
1,2-Dibromoethane	1625	100	2000	0	81.2	77 - 121			
1,2-Dichlorobenzene	1465	100	2000	0	73.3	80 - 119			S
1,2-Dichloroethane	1624	100	2000	298.3	66.3	73 - 128			S
1,2-Dichloropropane	1687	100	2000	2969	-64.1	78 - 122			S
1,3,5-Trimethylbenzene	1612	100	2000	0	80.6	75 - 124			
1,3-Dichlorobenzene	1551	100	2000	0	77.6	80 - 119			S
1,3-Dichloropropane	1548	100	2000	0	77.4	80 - 119			S
1,4-Dichlorobenzene	1546	100	2000	0	77.3	79 - 118			S
2,2-Dichloropropane	1653	100	2000	0	82.7	60 - 139			
2-Butanone	3082	200	4000	0	77.1	56 - 143			
2-Chlorotoluene	1618	100	2000	0	80.9	79 - 122			
2-Hexanone	2776	200	4000	0	69.4	57 - 139			
4-Chlorotoluene	1604	100	2000	0	80.2	78 - 122			
4-Isopropyltoluene	1513	100	2000	0	75.7	77 - 127			S
4-Methyl-2-pentanone	2781	200	4000	0	69.5	67 - 130			
Acetone	2739	200	4000	0	68.5	39 - 160			
Benzene	1767	100	2000	0	88.3	79 - 120			
Bromobenzene	1596	100	2000	0	79.8	80 - 120			S
Bromochloromethane	1683	100	2000	0	84.2	78 - 123			
Bromodichloromethane	1588	100	2000	0	79.4	79 - 125			
Bromoform	1475	100	2000	0	73.7	66 - 130			
Bromomethane	1787	100	2000	0	89.4	53 - 141			

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060434

QC BATCH REPORT

Batch ID: R469280 (0) **Instrument:** VOA7 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS24060214-10MS** Units: **ug/L** Analysis Date: **12-Jun-2024 19:20**
Client ID: Run ID: **VOA7_469280** SeqNo: **8067979** PrepDate: DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	3659	200	4000	0	91.5	64 - 133				
Carbon tetrachloride	1663	100	2000	73.02	79.5	72 - 136				
Chlorobenzene	1643	100	2000	0	82.1	82 - 118				
Chloroethane	1914	100	2000	0	95.7	60 - 138				
Chloroform	1728	100	2000	0	86.4	79 - 124				
Chloromethane	1948	100	2000	0	97.4	50 - 139				
cis-1,2-Dichloroethene	2450	100	2000	616.2	91.7	78 - 123				
cis-1,3-Dichloropropene	1656	100	2000	0	82.8	75 - 124				
Dibromochloromethane	1512	100	2000	0	75.6	74 - 126				
Dibromomethane	1598	100	2000	0	79.9	79 - 123				
Dichlorodifluoromethane	1846	100	2000	73.38	88.6	32 - 152				
Ethylbenzene	1701	100	2000	0	85.1	79 - 121				
Hexachlorobutadiene	1643	100	2000	0	82.2	66 - 134				
Isopropylbenzene	1701	100	2000	0	85.1	72 - 131				
m,p-Xylene	3392	200	4000	0	84.8	80 - 121				
Methylene chloride	1905	200	2000	43.16	93.1	74 - 124				
Naphthalene	1248	100	2000	0	62.4	61 - 128				
n-Butylbenzene	1522	100	2000	0	76.1	75 - 128				
n-Propylbenzene	1640	100	2000	0	82.0	76 - 126				
o-Xylene	1673	100	2000	0	83.7	78 - 122				
sec-Butylbenzene	1650	100	2000	0	82.5	77 - 126				
Styrene	1672	100	2000	0	83.6	78 - 123				
tert-Butylbenzene	1673	100	2000	0	83.7	78 - 124				
Tetrachloroethene	1636	100	2000	0	81.8	74 - 129				
Toluene	1700	100	2000	0	85.0	80 - 121				
trans-1,2-Dichloroethene	1695	100	2000	0	84.8	75 - 124				
trans-1,3-Dichloropropene	1656	100	2000	0	82.8	73 - 127				
Trichloroethene	9021	100	2000	6400	131	79 - 123				S
Trichlorofluoromethane	1809	100	2000	0	90.5	65 - 141				
Vinyl chloride	1898	100	2000	89.75	90.4	58 - 137				
Surr: 1,2-Dichloroethane-d4	*5847*	*3500*	*5000*	*0*	*117*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*5687*	*3500*	*5000*	*0*	*114*	*85 - 114*				
Surr: Dibromofluoromethane	*5798*	*3500*	*5000*	*0*	*116*	*80 - 119*				
Surr: Toluene-d8	*5825*	*3500*	*5000*	*0*	*116*	*89 - 112*				S

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060434

QC BATCH REPORT

Batch ID: R469280 (0) **Instrument:** VOA7 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS24060214-10MSD** Units: **ug/L** Analysis Date: **12-Jun-2024 19:43**
Client ID: Run ID: **VOA7_469280** SeqNo: **8067980** PrepDate: DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	2093	100	2000	0	105	78 - 124	1596	26.9	20	R
1,1,1-Trichloroethane	2244	100	2000	0	112	74 - 131	1739	25.3	20	R
1,1,2,2-Tetrachloroethane	1869	100	2000	0	93.4	71 - 121	1440	25.9	20	R
1,1,2-Trichloroethane	2101	100	2000	0	105	80 - 119	1524	31.8	20	R
1,1-Dichloroethane	2340	100	2000	0	117	77 - 125	1730	30	20	R
1,1-Dichloroethene	2673	100	2000	189.3	124	71 - 131	2151	21.6	20	R
1,1-Dichloropropene	2274	100	2000	0	114	78 - 125	1754	25.8	20	R
1,2,3-Trichlorobenzene	1778	100	2000	0	88.9	69 - 129	1277	32.8	20	R
1,2,3-Trichloropropane	1882	100	2000	2751	-43.4	73 - 122	1473	24.4	20	SR
1,2,4-Trichlorobenzene	1889	100	2000	51.18	91.9	69 - 130	1389	30.5	20	R
1,2,4-Trimethylbenzene	2185	100	2000	0	109	76 - 124	1596	31.1	20	R
1,2-Dibromo-3-chloropropane	1655	100	2000	0	82.7	62 - 128	1273	26.1	20	R
1,2-Dibromoethane	2135	100	2000	0	107	77 - 121	1625	27.1	20	R
1,2-Dichlorobenzene	2042	100	2000	0	102	80 - 119	1465	32.9	20	R
1,2-Dichloroethane	2147	100	2000	298.3	92.5	73 - 128	1624	27.8	20	R
1,2-Dichloropropane	2235	100	2000	2969	-36.7	78 - 122	1687	28	20	SR
1,3,5-Trimethylbenzene	2177	100	2000	0	109	75 - 124	1612	29.8	20	R
1,3-Dichlorobenzene	2070	100	2000	0	103	80 - 119	1551	28.6	20	R
1,3-Dichloropropane	2079	100	2000	0	104	80 - 119	1548	29.3	20	R
1,4-Dichlorobenzene	2062	100	2000	0	103	79 - 118	1546	28.6	20	R
2,2-Dichloropropane	2196	100	2000	0	110	60 - 139	1653	28.2	20	R
2-Butanone	3978	200	4000	0	99.5	56 - 143	3082	25.4	20	R
2-Chlorotoluene	2187	100	2000	0	109	79 - 122	1618	29.9	20	R
2-Hexanone	3574	200	4000	0	89.4	57 - 139	2776	25.2	20	R
4-Chlorotoluene	2124	100	2000	0	106	78 - 122	1604	27.9	20	R
4-Isopropyltoluene	2027	100	2000	0	101	77 - 127	1513	29	20	R
4-Methyl-2-pentanone	3619	200	4000	0	90.5	67 - 130	2781	26.2	20	R
Acetone	3656	200	4000	0	91.4	39 - 160	2739	28.7	20	R
Benzene	2265	100	2000	0	113	79 - 120	1767	24.7	20	R
Bromobenzene	2090	100	2000	0	104	80 - 120	1596	26.8	20	R
Bromochloromethane	2252	100	2000	0	113	78 - 123	1683	28.9	20	R
Bromodichloromethane	2115	100	2000	0	106	79 - 125	1588	28.5	20	R
Bromoform	1966	100	2000	0	98.3	66 - 130	1475	28.6	20	R
Bromomethane	2297	100	2000	0	115	53 - 141	1787	25	20	R

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060434

QC BATCH REPORT

Batch ID: R469280 (0) **Instrument:** VOA7 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS24060214-10MSD** Units: **ug/L** Analysis Date: **12-Jun-2024 19:43**
Client ID: Run ID: **VOA7_469280** SeqNo: **8067980** PrepDate: DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Carbon disulfide	4640	200	4000	0	116	64 - 133	3659	23.6	20	R
Carbon tetrachloride	2161	100	2000	73.02	104	72 - 136	1663	26	20	R
Chlorobenzene	2213	100	2000	0	111	82 - 118	1643	29.6	20	R
Chloroethane	2421	100	2000	0	121	60 - 138	1914	23.4	20	R
Chloroform	2294	100	2000	0	115	79 - 124	1728	28.1	20	R
Chloromethane	2400	100	2000	0	120	50 - 139	1948	20.8	20	R
cis-1,2-Dichloroethene	3027	100	2000	616.2	121	78 - 123	2450	21.1	20	R
cis-1,3-Dichloropropene	2085	100	2000	0	104	75 - 124	1656	23	20	R
Dibromochloromethane	2021	100	2000	0	101	74 - 126	1512	28.8	20	R
Dibromomethane	2066	100	2000	0	103	79 - 123	1598	25.6	20	R
Dichlorodifluoromethane	2454	100	2000	73.38	119	32 - 152	1846	28.3	20	R
Ethylbenzene	2310	100	2000	0	115	79 - 121	1701	30.3	20	R
Hexachlorobutadiene	2291	100	2000	0	115	66 - 134	1643	32.9	20	R
Isopropylbenzene	2311	100	2000	0	116	72 - 131	1701	30.4	20	R
m,p-Xylene	4626	200	4000	0	116	80 - 121	3392	30.8	20	R
Methylene chloride	2424	200	2000	43.16	119	74 - 124	1905	24	20	R
Naphthalene	1676	100	2000	0	83.8	61 - 128	1248	29.3	20	R
n-Butylbenzene	2043	100	2000	0	102	75 - 128	1522	29.2	20	R
n-Propylbenzene	2203	100	2000	0	110	76 - 126	1640	29.3	20	R
o-Xylene	2295	100	2000	0	115	78 - 122	1673	31.4	20	R
sec-Butylbenzene	2222	100	2000	0	111	77 - 126	1650	29.6	20	R
Styrene	2221	100	2000	0	111	78 - 123	1672	28.2	20	R
tert-Butylbenzene	2258	100	2000	0	113	78 - 124	1673	29.7	20	R
Tetrachloroethene	2200	100	2000	0	110	74 - 129	1636	29.4	20	R
Toluene	2278	100	2000	0	114	80 - 121	1700	29	20	R
trans-1,2-Dichloroethene	2166	100	2000	0	108	75 - 124	1695	24.4	20	R
trans-1,3-Dichloropropene	2085	100	2000	0	104	73 - 127	1656	23	20	R
Trichloroethene	9254	100	2000	6400	143	79 - 123	9021	2.55	20	S
Trichlorofluoromethane	2438	100	2000	0	122	65 - 141	1809	29.6	20	R
Vinyl chloride	2395	100	2000	89.75	115	58 - 137	1898	23.1	20	R
Surr: 1,2-Dichloroethane-d4	*5995*	*3500*	*5000*	*0*	*120*	*81 - 118*	*5847*	*2.5*	*20*	S
Surr: 4-Bromofluorobenzene	*5797*	*3500*	*5000*	*0*	*116*	*85 - 114*	*5687*	*1.92*	*20*	S
Surr: Dibromofluoromethane	*6077*	*3500*	*5000*	*0*	*122*	*80 - 119*	*5798*	*4.71*	*20*	S
Surr: Toluene-d8	*5995*	*3500*	*5000*	*0*	*120*	*89 - 112*	*5825*	*2.89*	*20*	S

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060434

QC BATCH REPORT

Batch ID: R469280 (0)	Instrument: VOA7	Method: VOLATILES ORGANICS BY METHOD 8260C

The following samples were analyzed in this batch:

HS24060434-01	HS24060434-02	HS24060434-03	HS24060434-04
HS24060434-05	HS24060434-06	HS24060434-07	HS24060434-08
HS24060434-10			

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060434

QC BATCH REPORT

Batch ID: R469580 (0) **Instrument:** VOA7 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-240615** Units: **ug/L** Analysis Date: **15-Jun-2024 20:07**
Client ID: Run ID: **VOA7_469580** SeqNo: **8073882** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	0.50	1.0								U
Isopropylbenzene	0.50	1.0								U
Surr: 1,2-Dichloroethane-d4	*57.75*	*35*	*50*	*0*	*116*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*54.97*	*35*	*50*	*0*	*110*	*85 - 114*				
Surr: Dibromofluoromethane	*57.43*	*35*	*50*	*0*	*115*	*80 - 119*				
Surr: Toluene-d8	*55.86*	*35*	*50*	*0*	*112*	*89 - 112*				

LCS Sample ID: **VLCSW-240615** Units: **ug/L** Analysis Date: **15-Jun-2024 18:58**
Client ID: Run ID: **VOA7_469580** SeqNo: **8073880** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	20.66	1.0	20	0	103	76 - 124				
Isopropylbenzene	20.03	1.0	20	0	100	72 - 131				
Surr: 1,2-Dichloroethane-d4	*47.94*	*35*	*50*	*0*	*95.9*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*51.19*	*35*	*50*	*0*	*102*	*85 - 114*				
Surr: Dibromofluoromethane	*48.36*	*35*	*50*	*0*	*96.7*	*80 - 119*				
Surr: Toluene-d8	*52.34*	*35*	*50*	*0*	*105*	*89 - 112*				

LCSD Sample ID: **VLCSDW-240615** Units: **ug/L** Analysis Date: **15-Jun-2024 19:21**
Client ID: Run ID: **VOA7_469580** SeqNo: **8073881** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	20.91	1.0	20	0	105	76 - 124	20.66	1.23	20	
Isopropylbenzene	20.25	1.0	20	0	101	72 - 131	20.03	1.11	20	
Surr: 1,2-Dichloroethane-d4	*51.37*	*35*	*50*	*0*	*103*	*81 - 118*	*47.94*	*6.91*	*20*	
Surr: 4-Bromofluorobenzene	*51.88*	*35*	*50*	*0*	*104*	*85 - 114*	*51.19*	*1.34*	*20*	
Surr: Dibromofluoromethane	*51.09*	*35*	*50*	*0*	*102*	*80 - 119*	*48.36*	*5.5*	*20*	
Surr: Toluene-d8	*52.49*	*35*	*50*	*0*	*105*	*89 - 112*	*52.34*	*0.29*	*20*	

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060434

QC BATCH REPORT

Batch ID: R469580 (0) **Instrument:** VOA7 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS24060434-01MS** Units: **ug/L** Analysis Date: **15-Jun-2024 22:01**
Client ID: **MW2_060624** Run ID: **VOA7_469580** SeqNo: **8073886** PrepDate: DF: **250**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	4072	250	5000	0	81.4	76 - 124				
Isopropylbenzene	4132	250	5000	0	82.6	72 - 131				
Surr: 1,2-Dichloroethane-d4	*14540*	*8800*	*12500*	*0*	*116*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*13530*	*8800*	*12500*	*0*	*108*	*85 - 114*				
Surr: Dibromofluoromethane	*14400*	*8800*	*12500*	*0*	*115*	*80 - 119*				
Surr: Toluene-d8	*15030*	*8800*	*12500*	*0*	*120*	*89 - 112*				S

MSD Sample ID: **HS24060434-01MSD** Units: **ug/L** Analysis Date: **15-Jun-2024 22:24**
Client ID: **MW2_060624** Run ID: **VOA7_469580** SeqNo: **8073887** PrepDate: DF: **250**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	3869	250	5000	0	77.4	76 - 124	4072	5.13	20	
Isopropylbenzene	4029	250	5000	0	80.6	72 - 131	4132	2.52	20	
Surr: 1,2-Dichloroethane-d4	*14900*	*8800*	*12500*	*0*	*119*	*81 - 118*	*14540*	*2.45*	*20*	S
Surr: 4-Bromofluorobenzene	*14030*	*8800*	*12500*	*0*	*112*	*85 - 114*	*13530*	*3.67*	*20*	
Surr: Dibromofluoromethane	*15000*	*8800*	*12500*	*0*	*120*	*80 - 119*	*14400*	*4.08*	*20*	S
Surr: Toluene-d8	*15420*	*8800*	*12500*	*0*	*123*	*89 - 112*	*15030*	*2.56*	*20*	S

The following samples were analyzed in this batch: HS24060434-01

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060434

QC BATCH REPORT

Batch ID: R469833 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-240618** Units: **ug/L** Analysis Date: **18-Jun-2024 17:38**
Client ID: Run ID: **VOA9_469833** SeqNo: **8085191** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Trichloroethene	0.50	1.0								U
Surr: 1,2-Dichloroethane-d4	*57.83*	*35*	*50*	*0*	*116*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*58.46*	*35*	*50*	*0*	*117*	*85 - 114*				S
Surr: Dibromofluoromethane	*55.96*	*35*	*50*	*0*	*112*	*80 - 119*				
Surr: Toluene-d8	*59.61*	*35*	*50*	*0*	*119*	*89 - 112*				S

LCS Sample ID: **VLCSW-240618** Units: **ug/L** Analysis Date: **18-Jun-2024 16:34**
Client ID: Run ID: **VOA9_469833** SeqNo: **8085190** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Trichloroethene	19.32	1.0	20	0	96.6	79 - 123				
Surr: 1,2-Dichloroethane-d4	*56.24*	*35*	*50*	*0*	*112*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*59.81*	*35*	*50*	*0*	*120*	*85 - 114*				S
Surr: Dibromofluoromethane	*56.8*	*35*	*50*	*0*	*114*	*80 - 119*				
Surr: Toluene-d8	*59.59*	*35*	*50*	*0*	*119*	*89 - 112*				S

MS Sample ID: **HS24060379-09MS** Units: **ug/L** Analysis Date: **18-Jun-2024 22:21**
Client ID: Run ID: **VOA9_469833** SeqNo: **8085193** PrepDate: DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Trichloroethene	1715	100	2000	0	85.8	79 - 123				
Surr: 1,2-Dichloroethane-d4	*5863*	*3500*	*5000*	*0*	*117*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*6171*	*3500*	*5000*	*0*	*123*	*85 - 114*				S
Surr: Dibromofluoromethane	*5826*	*3500*	*5000*	*0*	*117*	*80 - 119*				
Surr: Toluene-d8	*6204*	*3500*	*5000*	*0*	*124*	*89 - 112*				S

ALS Houston, US Date: 30-Aug-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060434

QC BATCH REPORT

Batch ID: R469833 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS24060379-09MSD** Units: **ug/L** Analysis Date: **18-Jun-2024 22:42**
Client ID: Run ID: **VOA9_469833** SeqNo: **8085194** PrepDate: DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Trichloroethene	1657	100	2000	0	82.8	79 - 123	1715	3.47	20	
Surr: 1,2-Dichloroethane-d4	*6000*	*3500*	*5000*	*0*	*120*	*81 - 118*	*5863*	*2.31*	*20*	S
Surr: 4-Bromofluorobenzene	*6180*	*3500*	*5000*	*0*	*124*	*85 - 114*	*6171*	*0.145*	*20*	S
Surr: Dibromofluoromethane	*5907*	*3500*	*5000*	*0*	*118*	*80 - 119*	*5826*	*1.37*	*20*	
Surr: Toluene-d8	*6285*	*3500*	*5000*	*0*	*126*	*89 - 112*	*6204*	*1.29*	*20*	S

The following samples were analyzed in this batch: HS24060434-08

Revision: 1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: **HS24060434**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter

RIGHT SOLUTIONS | RIGHT PARTNER

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arizona	AZ0793	27-May-2025
Arkansas	88-00356_2024	27-Mar-2025
California	2919; 2025	30-Apr-2025
Dept of Defense	L22-90-R2	30-Apr-2026
Florida	E87611-38	30-Jun-2025
Illinois	2000322023-11	31-Jul-2025
Kansas	E-10352 2023-2024	31-Jul-2025
Kentucky	123043	30-Apr-2025
Louisiana	03087 2023-2024	30-Jun-2025
Maine	2024017	23-Jun-2026
Michigan	9971	30-Apr-2025
Nebraska	NE-OS-25-13	30-Apr-2025
New Jersey	TX008	30-Jun-2025
North Carolina	624 - 2024	31-Dec-2024
North Dakota	R-193 2023-2024	30-Sep-2024
Oklahoma	2023-140	31-Aug-2024
Pennsylvania	018	30-Jun-2025
Tennessee	04016	30-Apr-2025
Texas	T104704231 TX-C24-00130	30-Apr-2025
Utah	TX026932023-14	31-Jul-2025

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 30-Aug-24

Sample Receipt Checklist

Work Order ID: HS24060434 **Date/Time Received:** 07-Jun-2024 09:15

Client Name: Bhate Environmental **Received by:** Jacob Coronado

Completed By:	/S/ Jacob Coronado	07-Jun-2024 17:23	**Reviewed by:**	/S/ sebastian.lugo	10-Jun-2024 15:28
	eSignature	Date/Time		eSignature	Date/Time

Matrices: W Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	2 Page(s)
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Samplers name present on COC?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	

Temperature(s)/Thermometer(s):	3.1UC/3.2C	IR31
Cooler(s)/Kit(s):	50567	
Date/Time sample(s) sent to storage:	06/07/2024 1724	

Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☑	N/A ☐
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

bhate

1608 13th Avenue South, Suite 300
Birmingham Alabama 35205
Tel: 205-918-4000
Fax: 205-918-4050

Chain of Custody and Analytical Request

Page: _____ of _____

Project/Phase No: JVPCIBH.0001

COC Number(1): _____

LIMS Number: _____

Facility/Base I.D.: LHAAP / **BILL to PCI**

Project/Site Name: LHAAP / Site 18/24

Client Name:

Collected by: Scott Beesinger

Field Sample ID (30 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOC	PERCHLORATE	TOTAL METALS	1,4 - DIOXANE	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
MW2_060624	06Jun 2024	0655	-	N		WG	5	X	X		X				
18CptMW01DW_060624	06Jun 2024	0740	-	N		WG	6	X	X	X	X				
18CptMW01SW_060624	06Jun 2024	0830	-	N		WG	6	X	X	X	X				
102_060624	06Jun 2024	0915		N		WG	5	X	X	X					
102_060624_e	06Jun 2024	0915		FD		WG	5	X	X	X					
18CptMW07_060624	06Jun 2024	1000	-	N		WG	5	X	X		X				
18CptMW24_060624	06Jun 2024	1045	-	N		WG	5	X	X		X				
MW8_060624	06Jun 2024	1130	-	N		WG	5	X	X		X				
18WW14_060624	06Jun 2024	1220	-	N		WG	2		X	X					
18WW14_060624_ms	06Jun 2024	1220	-	MS		WG	2		X	X					
18WW14_060624_msD	06Jun 2024	1220	-	SD		WG	2		X	X					

Sample Analysis Requested[5] | Quality Assurance Samples[6]

HS24060434

Bhate Environmental Associates, Inc.
LHAAP Site 18/24

COMMENTS: STANDARD TAT

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Scott Beesinger	6/6/24	1430	1.	6/7/24	0915
2.			2.		
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: _____ Shipped No.:

Method of Shipment: _____

_____ Fed Ex _____ Airbill Number:

_____ Analytical Lab: ALS 10450 Stanciff Rd. Suite 210 Houston, TX 77099 (281) 530-5656

ATTN: Dane Wagaey Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc.), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc.) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

505673.1 1091

RIGHT SOLUTIONS | RIGHT PARTNER

bhate

1608 13th Avenue South, Suite 300
Birmingham Alabama 35205
Tel: 205-918-4000
Fax: 205-918-4050

Chain of Custody and Analytical Request

Page: _____ of _____

Project/Phase No: JVPCIBH.0001

COC Number(1): _____

LIMS Number: _____

Facility/Base I.D.: LHAAP / **BILL to PCI**

Project/Site Name: LHAAP / Site 18/24

Client Name:

Collected by: Scott Beesinger

Field Sample ID (30 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOC	PERCHLORATE	TOTAL METALS	1, 4 - DIOXANE							Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
Trip Blank	06-Jun-2024		-	TB		W	2	X													
			-																		
			-																		
			-																		
			-																		
			-																		
			-																		
			-																		
			-																		

HS24060434
Bhate Environmental Associates, Inc.
LHAAP Site 18/24

COMMENTS: STANDARD TAT

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Scott Beesinger	6/6/24	1430	1.	6/7/24	0915
2.			2.		
3.			3.		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: _____ Shipped _____ No.:

Method of Shipment: _____

_____ Fed _____ Ex _____ Airbill Number:

Analytical Lab: ALS 10450 Stanstiff Rd. Suite 210 Houston, TX 77099 (281) 530-5656

ATTN: Dane Wamsley Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

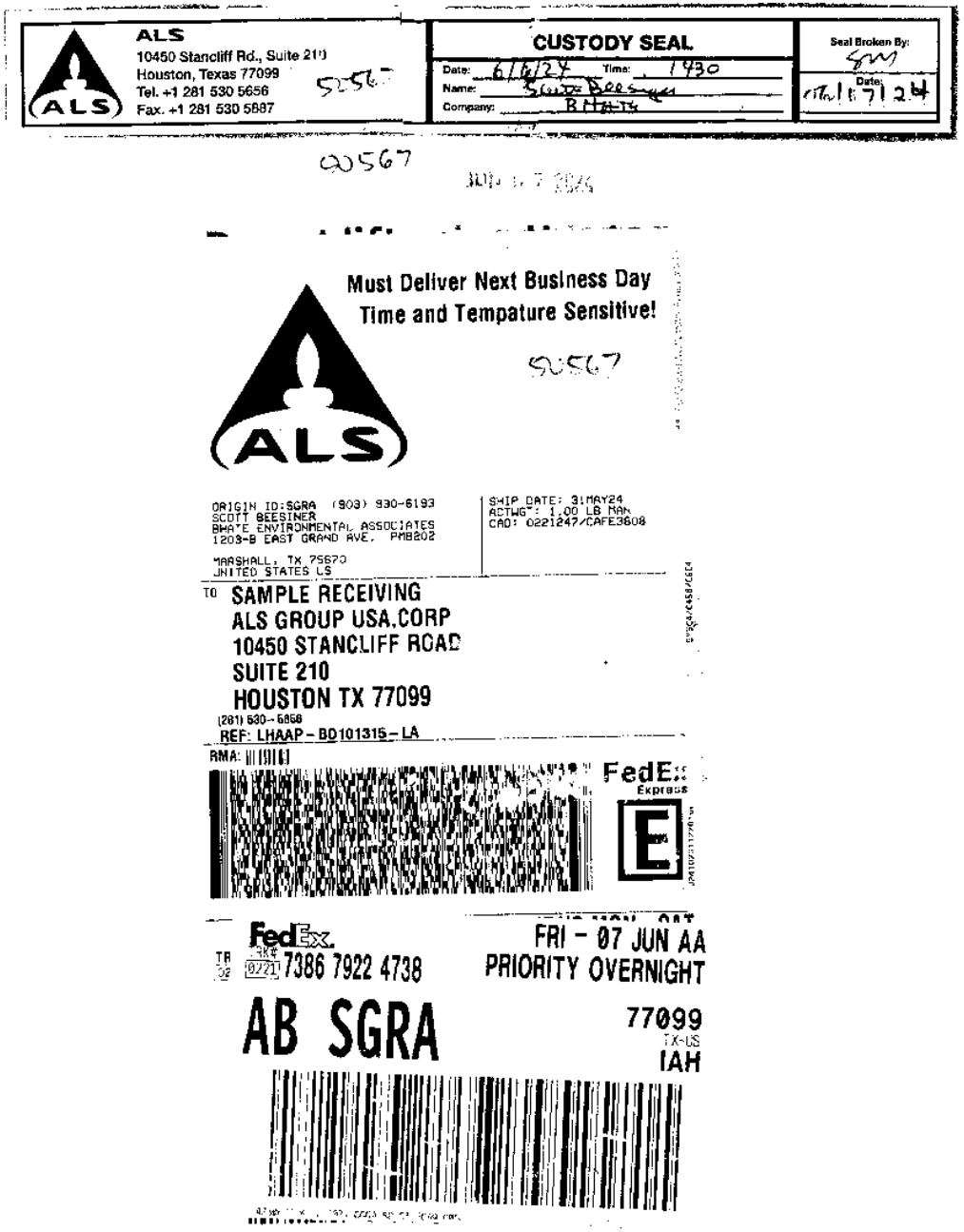
4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

50567 3.1 IR-81

RIGHT SOLUTIONS | RIGHT PARTNER



ALS
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

90567

CUSTODY SEAL
Date: 6/6/24 Time: 1930
Name: Scott Beesinger
Company: BHATE

Seal Broken By:
Date: 6/7/24

90567

Must Deliver Next Business Day
Time and Tempature Sensitive!

90567

ORIGIN ID:SGRA (903) 930-6193
SCOTT BEESINER
BHATE ENVIRONMENTAL ASSOCIATES
1203-B EAST GRAND AVE. PMB202
MARSHALL, TX 75670
UNITED STATES US

SHIP DATE: 31MAY24
ACTWGT: 1.00 LB MAN
CAD: 0221247/CAFE3608

TO SAMPLE RECEIVING
ALS GROUP USA,CORP
10450 STANCLIFF ROAD
SUITE 210
HOUSTON TX 77099
(281) 530-5656
REF: LHAAP - BD101315 - LA

RMA:

FedEx Express

FedEx
TRK# 7386 7922 4738
0221

FRI - 07 JUN AA
PRIORITY OVERNIGHT

AB SGRA

77099
TX-US
IAH

RIGHT SOLUTIONS | RIGHT PARTNER

June 25, 2024 Service Request No:E2400684

ALS Group USA, Corp.
10450 Stancliff Road
Suite 210
Houston, TX 77099-4338

Laboratory Results for: HS24060434

Enclosed are the results of the sample(s) submitted to our laboratory June 07, 2024
For your reference, these analyses have been assigned our service request number **E2400684.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current TNI standards, where applicable, and except as noted in the laboratory case narrative provided. All results are intended to be considered in their entirety and ALS Environmental is not responsible for use of less than the complete final report. Results apply only to the items submitted to the laboratory, as received for analysis. In accordance with the current TNI Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2190. You may also contact me via email at hussam.kelany@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

H Kelany

Hussam Kelany
Project Manager

ADDRESS 10450 Stancliff Rd., Suite 210, Houston, TX 77099
PHONE +1 281 530 5656 | FAX +1 281 530 5887
ALS Group USA, Corp.
dba ALS Environmental

Certificate of Analysis

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

RIGHT SOLUTIONS | RIGHT PARTNER

RIGHT SOLUTIONS | RIGHT PARTNER

Client:	ALS Environmental - US	**Service Request No.:**	E2400684
Project:	HS24060434	**Date Received:**	06/07/24
Sample Matrix:	Ground Water		

CASE NARRATIVE

All analyses were performed in adherence to the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Nine samples were received for analysis at ALS Environmental in Houston on 06/07/24.

The samples were received in good condition and are consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2400328: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in addition to a MS/MSD for this extraction batch.

The batch precision (MS/DMS) measurements were determined on an unrelated sample in the extraction batch. The MS/DMS results are not included in this report.

The recoveries for MS and DMS are out of control due to matrix interference.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS group USA Corp dba ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

Client: ALS Environmental - US **Service Request:**E2400684
Project: HS24060434

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2400684-001	MW2_060624	6/6/2024	0655
E2400684-002	18CPTMW01DW_060624	6/6/2024	0740
E2400684-003	18CPTMW01SW_060624	6/6/2024	0830
E2400684-004	102_060624	6/6/2024	0915
E2400684-005	102_060624_a	6/6/2024	0915
E2400684-006	18CPTMW04_060624	6/6/2024	1000
E2400684-007	18CPTMW24_060624	6/6/2024	1045
E2400684-008	MW8_060624	6/6/2024	1130
E2400684-009	18WW14_060624	6/6/2024	1220

Service Request Summary

Folder #: **E2400684**
Client Name: ALS Environmental - US
Project Name: HS24060434
Project Number:

Report To:

ALS Group USA, Corp.
10450 Stancliff Road
Houston, TX 77099-4338
USA

Phone Number: 281-530-5656
Cell Number:
Fax Number: 281-530-5887
E-mail: alsusa_accountspayable@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: MONICA.SMITH
Date Received: 06/07/24
Internal Due Date: 6/19/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: BASIC_WQC_CASNo

11 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 6B
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON ClO4 DOD/6850
E2400684-001	MW2_060624	Ground Water	06/06/24 0655	**IV**
E2400684-002	18CPTMW01DW_060624	Ground Water	06/06/24 0740	**IV**
E2400684-003	18CPTMW01SW_060624	Ground Water	06/06/24 0830	**IV**
E2400684-004	102_060624	Ground Water	06/06/24 0915	**IV**
E2400684-005	102_060624_a	Ground Water	06/06/24 0915	**IV**
E2400684-006	18CPTMW04_060624	Ground Water	06/06/24 1000	**IV**
E2400684-007	18CPTMW24_060624	Ground Water	06/06/24 1045	**IV**
E2400684-008	MW8_060624	Ground Water	06/06/24 1130	**IV**
E2400684-009	18WW14_060624	Ground Water	06/06/24 1220	**IV**

Print
RIGHT SOLUTIONS | RIGHT PARTNER

Service Request Summary

Folder #: **E2400684**
Client Name: ALS Environmental - US
Project Name: HS24060434
Project Number:

Report To:

ALS Group USA, Corp.
10450 Stancliff Road
Houston, TX 77099-4338
USA

Phone Number: 281-530-5656
Cell Number:
Fax Number: 281-530-5887
E-mail: alsusa_accountspayable@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: MONICA.SMITH
Date Received: 06/07/24
Internal Due Date: 6/19/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: BASIC_WQC_CASNo

11 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 6B
Pressure Gas:

Data Qualifiers

Lab Standard

+	Possible Tedlar bag artifact.
A	TIC is a suspected aldol-condensation product
B	Analyte found in the associated method blank as well as in the sample.
BC	Reported results are not blank corrected.
BH	The back section of the tube yielded higher results than the front.
BT	Results indicated possible breakthrough; back section >=10% front section.
C	Result identification confirmed.
D	Compound identified in an analysis at a secondary dilution factor
D	Spike was diluted out
DE	Reported results are corrected for desorption efficiency.
E	Estimated value. Concentration above calibration range
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
H1	Sample analysis performed past holding time. See case narrative.
H2	Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
H3	Sample was received and analyzed past holding time.
H4	Sample was extracted past required extraction holding time, but analyzed within analysis holding time. See case narrative.
I	(Auto) The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
I	Internal standard not within the specified limits. See case narrative.
I	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
J	Estimated Value. Concentration found below MRL.
K	A deflection in the QC ion may indicate interference with the quantitation of this ion. The concentration of this analyte should be considered as an estimate.
K	Analyte was detected above the method reporting limit prior to normalization.
K	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
L1	Laboratory control sample recovery outside the specified limits; results may be biased high.
L2	Laboratory control sample recovery outside the specified limits; results may be biased low.
L3	Laboratory control sample recovery outside the specified limits.
M	Matrix interference; results may be biased high.
M	The duplicate injection precision not met.

Data Qualifiers

Lab Standard

M1	Matrix interference due to coelution with a non-target compound; results may be biased high.
N	Presumptive evidence of a compound for TICs that have been identified based on a mass spectral library search.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
P	Indicates chlorodiphenyl ether interference present at the retention time of the target compound.
P	Pesticide/Aroclor target analyte > 40% difference for detected concentrations between GC columns
Q	Indicates as estimated value because the P and P + 2 theoretical abundance ratio does not meet method criteria.
R	Duplicate Precision not met.
R1	Duplicate precision not within the specified limits; however, the results are below the MRL and considered estimated.
S	Surrogate recovery not within specified limits.
S	The reported value was determined by the Method of Standard Additions (MSA).
T	Analyte is a tentatively identified compound, result is estimated.
U	Compound was analyzed for, but was not detected (ND).
V1	The continuing calibration verification standard was outside (biased high) the specified limits for this compound.
V2	The continuing calibration verification standard was outside (biased low) the specified limits for this compound.
W	Result quantified, but the corresponding peak was detected outside the generated retention time window.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
X	See case narrative.
Y	Recovery outside limits
Y	The chromatogram resembles a petroleum product but does not match the calibration standard.
Z	The chromatogram does not resemble a petroleum product.
i	The MRL/MDL has been elevated due to a matrix interference.

ALS Laboratory Group

Acronyms

Cal	Calibration
Conc	CONCentration
Dioxin(s)	Polychlorinated dibenzo-p-dioxin(s)
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
Flags	Data qualifiers
Furan(s)	Polychlorinated dibenzofuran(s)
g	Grams
ICAL	Initial CALibration
ID	IDentifier
Ions	Masses monitored for the analyte during data acquisition
L	Liter (s)
LCS	Laboratory Control Sample
DLCS	Duplicate Laboratory Control Sample
MB	Method Blank
MCL	Method Calibration Limit
MDL	Method Detection Limit
mL	Milliliters
MS	Matrix Spiked sample
DMS	Duplicate Matrix Spiked sample
NO	Number of peaks meeting all identification criteria
PCDD(s)	Polychlorinated dibenzo-p-dioxin(s)
PCDF(s)	Polychlorinated dibenzofuran(s)
ppb	Parts per billion
ppm	Parts per million
ppq	Parts per quadrillion
ppt	Parts per trillion
QA	Quality Assurance
QC	Quality Control
Ratio	Ratio of areas from monitored ions for an analyte
% Rec.	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SDG	Sample Delivery Group
S/N	Signal-to-noise ratio
TEF	Toxicity Equivalence Factor
TEQ	Toxicity Equivalence Quotient

10450 Stancliff Rd, Houston, TX 77099 | 281-530-5656 | www.alsglobal.com

ALS Environmental

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arkansas Department of Environmental Quality	88-00356	3/28/2025
California State Environmental Laboratory Accreditation Program	2919-2024	4/30/2025
Department of Defense	L24-240	4/30/2026
Florida Department of Health	E87611-38	6/30/2024
Hawaii Department of Health	2024	4/30/2025
Illinois Environmental Protection Agency	2000322023-11	6/30/2024
Kansas Department of Health and Environment	E-10352 2023-2024	7/31/2024
Louisiana Department of Environmental Quality	03087-2023	6/30/2024
Louisiana Department of Health and Hospitals	LA028-2024	12/31/2024
Maryland Department of the Environment	343-2023	6/30/2024
Minnesota Department of Health	2645386	12/31/2024
Nevada Division of Environmental Protection	TX026932024-1	7/31/2024
New Hampshire Environmental Laboratory Accreditation Program	209424-A	4/24/2025
New Jersey Department of Environmental Protection	TX008-2024	6/30/2024
Oklahoma Department of Environmental Quality	2023-140	8/31/2024
Oregon Environmental Laboratory Accreditation Program	TX200002-2024	5/15/2025
Pennsylvania Department of Environmental Protection	68-03441-017	6/30/2024
Tennessee Department of Environment and Conservation	04016-2024	4/30/2025
Texas Commision on Environmental Quality	TX-C24-00130	4/30/2025
Utah Department of Health Environmental Laboratory Certification	TX026932023-14	7/31/2024
Washington Department of Ecology	C819-23	11/14/2024

Chain of Custody

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

E2400684 5
ALS Laboratory Group
HS24060434

10450 Stancliff Rd, Ste 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

Subcontract Chain of Custody

SAMPLING STATE: **Texas** **COC ID:** **25933**

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	Luis.Aguilar
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	luis.aguilar@alsglobal.com
Alternate Contact:	Jumoke M. Lawal
Email:	jumoke.lawal@alsglobal.com

INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	HS24060434
TSR:	Sonia West

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24060434-01**	**MW2_060624**	**Groundwater**	**06 Jun 2024 06:55**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			21 Jun 2024
2.	**HS24060434-02**	**18CPTMW01DW_060624**	**Groundwater**	**06 Jun 2024 07:40**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			21 Jun 2024
3.	**HS24060434-03**	**18CPTMW01SW_060624**	**Groundwater**	**06 Jun 2024 08:30**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			21 Jun 2024
4.	**HS24060434-04**	**102_060624**	**Groundwater**	**06 Jun 2024 09:15**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			21 Jun 2024
5.	**HS24060434-05**	**102_060624_a**	**Groundwater**	**06 Jun 2024 09:15**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			21 Jun 2024
6.	**HS24060434-06**	**18CPTMW04_060624**	**Groundwater**	**06 Jun 2024 10:00**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			21 Jun 2024
7.	**HS24060434-07**	**18CPTMW24_060624**	**Groundwater**	**06 Jun 2024 10:45**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			21 Jun 2024
8.	**HS24060434-08**	**MW8_060624**	**Groundwater**	**06 Jun 2024 11:30**

Subcontract Chain of Custody

SAMPLING STATE: **Texas** **COC ID:** **25933**

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			21 Jun 2024
9.	**HS24060434-09**	**18WW14_060624**	**Groundwater**	**06 Jun 2024 12:20**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			21 Jun 2024

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.
MS/MSD on Sample-9

QC Level: DOD IV (DoD Data Package)

Relinquished By: _____ Date/Time: 6-14-24 1745

Received By: _____ Date/Time: _____

Cooler ID(s): _____ Temperature(s): _____

E2400684 5
ALS Laboratory Group
HS24060434

10450 Stancliff Rd, Ste 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

Sample Receipt Checklist

Work Order ID: HS24060434 **Date/Time received:** 07 Jun 2024 09:15

Client name: Bhate Environmental Associates, Inc. **Received by:** Jacob Coronado

Completed/By: 07 Jun 2024 17:23 Jacob Coronado (Date/Time / eSignature) **Reviewed/By:** (Date/Time / eSignature)

Matrices: W **Carrier name:** FedEx

Shipping container/cooler in good condition?	☑ Yes	☐ No	☐ Not Present	
Custody seals intact on shipping container/cooler?	☑ Yes	☐ No	☐ Not Present	
Custody seals intact on Sample bottles?	☐ Yes	☐ No	☑ Not Present	
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	☐ Yes	☐ No	☑ Not Present	
Chain of custody present?	☑ Yes	☐ No	2 Page(s)	
Chain of custody signed when relinquished and received?	☑ Yes	☐ No	COC ID(s):	
Samplers name present on COC?	☑ Yes	☐ No		
Chain of custody agrees with sample labels?	☑ Yes	☐ No		
Samples in proper container/bottle?	☑ Yes	☐ No		
Sample containers intact?	☑ Yes	☐ No		
Sufficient sample volume for indicated test?	☑ Yes	☐ No		
All samples received within holding time?	☑ Yes	☐ No		
Container/Temp Blank temperature in compliance?	☑ Yes	☐ No		

Temperature(s)/Thermometer(s): 3.1UC/3.2C IR31

Cooler Information: 1 Cooler(s), 50567

Date/Time sample(s) sent to storage: 06/07/2024 1724

Water - VOA vials have zero headspace?	☑ Yes	☐ No	☐ No VOA vials submitted
Water - pH acceptable upon receipt?	☑ Yes	☐ No	☐ Not Applicable
pH adjusted?	☐ Yes	☑ No	☐ Not Applicable

pH adjusted by:

Login notes:

Client contacted: **Date contacted:** **Person contacted:**

Contacted by: **Regarding:**

Comments:

Corrective action:

10450 Stancliff Rd., Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

SAMPLE ACCEPTANCE POLICY

This policy outlines the criteria samples must meet to be accepted by ALS Environmental – Houston HRMS.

Cooler Custody Seals (desirable, mandatory if specified in SAP):

- ✓ Intact on outside of cooler, signed and dated

Chain-of-Custody (COC) documentation (mandatory):

The following is required on each COC:

- ✓ Sample ID, the location, date and time of collection, collector's name, preservation type, sample type, and any other special remarks concerning the sampleThe COC must be completed in ink.
- ✓ Signature and date of relinquishing party.

In the absence of a COC at sample receipt, the COC will be requested from the client.

Sample Integrity (mandatory):

Samples are inspected upon arrival to ensure that sample integrity was not compromised during transfer to the laboratory.

- ✓ Sample containers must arrive in good condition (not broken or leaking).
- ✓ Samples must be labeled appropriately, including Sample IDs, and requested test using durable labels and indelible ink.
- ✓ The correct type of sample bottle must be used for the method requested.
- ✓ An appropriate sample volume, or weight, must be received.
- ✓ Sample IDs and number of containers must reconcile with the COC.
- ✓ Samples must be received within the method defined holding time.

Temperature Requirement (varies by sample matrix):

- ✓ Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6ºC.
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10ºC.
- ✓ Air samples are shipped and stored cold, at 0 to 6ºC
- ✓ The sample temperature must be recorded on the COC

All cooler inspections are documented on the Cooler Receipt Form (CRF). A separate CRF is completed for each service request. Any samples not meeting the above criteria are noted on the CRF and the Project Manager notified. The Project Manager must resolve any sample integrity issues with the client prior to proceeding with the analysis. Such resolutions are documented in writing and filed with the project folder. Data associated with samples received outside of this acceptance policy will be qualified on the case narrative of the final report

Preparation Information Benchsheets

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

RIGHT SOLUTIONS | RIGHT PARTNER

RIGHT SOLUTIONS | RIGHT PARTNER

Preparation Information Benchsheet

Prep Run#: 440258 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** Method **Prep Date/Time:** 6/19/24 08:43

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2400682-001	18CPTMW04SW_060724	.01	6850/ClO4 DOD			Water	10mL	
2	E2400682-002	18CPTMW04_060724	.01	6850/ClO4 DOD			Water	10mL	
3	E2400682-003	AWD3_060724	.01	6850/ClO4 DOD			Water	10mL	
4	E2400682-004	MW1_060724	.01	6850/ClO4 DOD			Water	10mL	
5	E2400682-005	MW1_060724_a	.01	6850/ClO4 DOD			Water	10mL	
6	E2400682-006	18ww06_060724	.01	6850/ClO4 DOD			Water	10mL	
7	E2400682-007	18ww02_060724	.01	6850/ClO4 DOD			Water	10mL	
8	E2400682-008	18CPTMW23SW_060724	.01	6850/ClO4 DOD			Water	10mL	
9	E2400682-009	18CPTMW23_060724	.02	6850/ClO4 DOD			Water	10mL	
10	E2400684-001	MW2_060624	.01	6850/ClO4 DOD			Ground Water	10mL	
11	E2400684-002	18CPTMW01DW_060624	.01	6850/ClO4 DOD			Ground Water	10mL	
12	E2400684-003	18CPTMW01SW_060624	.01	6850/ClO4 DOD			Ground Water	10mL	
13	E2400684-004	102_060624	.01	6850/ClO4 DOD			Ground Water	10mL	
14	E2400684-005	102_060624_a	.01	6850/ClO4 DOD			Ground Water	10mL	
15	E2400684-006	18CPTMW04_060624	.01	6850/ClO4 DOD			Ground Water	10mL	
16	E2400684-007	18CPTMW24_060624	.01	6850/ClO4 DOD			Ground Water	10mL	
17	E2400684-008	MW8_060624	.01	6850/ClO4 DOD			Ground Water	10mL	
18	E2400684-009	18WW14_060624	.01	6850/ClO4 DOD			Ground Water	10mL	
19	EQ2400328-01	MB		6850/ClO4 DOD			Liquid	10mL	
20	EQ2400328-02	LCS		6850/ClO4 DOD			Liquid	10mL	
21	EQ2400328-03	DLCS		6850/ClO4 DOD			Liquid	10mL	
22	EQ2400328-04	ICS		6850/ClO4 DOD			Liquid	10mL	
23	EQ2400328-05	18WW14_060624 MS	.01	6850/ClO4 DOD			Liquid	10mL	
24	EQ2400328-06	18WW14_060624 DMS	.01	6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Intermediate Stock 2 Inventory ID 233555 Logbook Ref: Perchlorate INT. Stock2 Expires On: 08/05/2024

EQ2400328-02	10.00µL	EQ2400328-03	10.00µL	EQ2400328-04	10.00µL	EQ2400328-05	10.00µL	EQ2400328-06	10.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 235428 Logbook Ref: Perchlorate IS cg5/24/24 Expires On: 11/24/2024

E2400682-001	100.00µL	E2400682-002	100.00µL	E2400682-003	100.00µL	E2400682-004	100.00µL	E2400682-005	100.00µL	E2400682-006	100.00µL
E2400682-007	100.00µL	E2400682-008	100.00µL	E2400682-009	100.00µL	E2400684-001	100.00µL	E2400684-002	100.00µL	E2400684-003	100.00µL
E2400684-004	100.00µL	E2400684-005	100.00µL	E2400684-006	100.00µL	E2400684-007	100.00µL	E2400684-008	100.00µL	E2400684-009	100.00µL
EQ2400328-01	100.00µL	EQ2400328-02	100.00µL	EQ2400328-03	100.00µL	EQ2400328-04	100.00µL	EQ2400328-05	100.00µL	EQ2400328-06	100.00µL

Preparation Information Benchsheet

Prep Run#: 440258 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** Method **Prep Date/Time:** 6/19/24 08:43

Preparation Materials

6850 0.45um syringe filters	6850 0.45 SYRING FILTER (229979)	6850 Luer-Lok Syringes	Luer Lok Syringes (231696)

Preparation Steps

Step: Preparation
Started: 6/19/24 08:43
Finished: 6/19/24 12:57
By: JOSEL.JUAREZ
Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____

Received By: _____ Date: _____

Extracts Examined
Yes No

Analytical Results

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400684
Project:	HS24060434	**Date Collected:**	6/ 6/24 0655
Sample Matrix:	Ground Water	**Date Received:**	6/ 7/24
Sample Name:	MW2_060624	**Units:**	µg/L
Lab Code:	E2400684-001	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.121**		0.100	0.0500	0.0250	1	6/19/24	6/19/24 16:42	440258	844810	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400684
Project:	HS24060434	**Date Collected:**	6/ 6/24 0740
Sample Matrix:	Ground Water	**Date Received:**	6/ 7/24
Sample Name:	18CPTMW01DW_060624	**Units:**	µg/L
Lab Code:	E2400684-002	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	6/19/24	6/19/24 14:43	440258	844810	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400684
Project:	HS24060434	**Date Collected:**	6/ 6/24 0830
Sample Matrix:	Ground Water	**Date Received:**	6/ 7/24
Sample Name:	18CPTMW01SW_060624	**Units:**	µg/L
Lab Code:	E2400684-003	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	6/19/24	6/19/24 14:49	440258	844810	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400684
Project:	HS24060434	**Date Collected:**	6/ 6/24 0915
Sample Matrix:	Ground Water	**Date Received:**	6/ 7/24
Sample Name:	102_060624	**Units:**	µg/L
Lab Code:	E2400684-004	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**29.6**		0.100	0.0500	0.0250	1	6/19/24	6/19/24 14:55	440258	844810	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400684
Project:	HS24060434	**Date Collected:**	6/ 6/24 0915
Sample Matrix:	Ground Water	**Date Received:**	6/ 7/24
Sample Name:	102_060624_a	**Units:**	µg/L
Lab Code:	E2400684-005	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**31.4**		0.100	0.0500	0.0250	1	6/19/24	6/19/24 15:00	440258	844810	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400684
Project:	HS24060434	**Date Collected:**	6/ 6/24 1000
Sample Matrix:	Ground Water	**Date Received:**	6/ 7/24
Sample Name:	18CPTMW04_060624	**Units:**	µg/L
Lab Code:	E2400684-006	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**1.45**		0.100	0.0500	0.0250	1	6/19/24	6/19/24 16:48	440258	844810	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400684
Project:	HS24060434	**Date Collected:**	6/ 6/24 1045
Sample Matrix:	Ground Water	**Date Received:**	6/ 7/24
Sample Name:	18CPTMW24_060624	**Units:**	µg/L
Lab Code:	E2400684-007	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**51.8**		1.00	0.500	0.250	10	6/19/24	6/20/24 10:23	440258	844983	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400684
Project:	HS24060434	**Date Collected:**	6/ 6/24 1130
Sample Matrix:	Ground Water	**Date Received:**	6/ 7/24
Sample Name:	MW8_060624	**Units:**	µg/L
Lab Code:	E2400684-008	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**9260**		100	50.0	25.0	1000	6/19/24	6/20/24 10:29	440258	844983	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400684
Project:	HS24060434	**Date Collected:**	6/ 6/24 1220
Sample Matrix:	Ground Water	**Date Received:**	6/ 7/24
Sample Name:	18WW14_060624	**Units:**	µg/L
Lab Code:	E2400684-009	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.808**		0.100	0.0500	0.0250	1	6/19/24	6/19/24 15:33	440258	844810	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400684
Project:	HS24060434	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2400328-01	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	6/19/24	6/19/24 13:09	440258	844810	

Accuracy & Precision

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400684
Project:	HS24060434	**Date Analyzed:**	06/19/24
Sample Matrix:	Ground Water	**Date Extracted:**	06/19/24

Duplicate Lab Control Sample Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analysis Method:	6850	**Units:**	ug/L
Prep Method:	Method	**Basis:**	NA
		Analysis Lot:	844810

	Lab Control Sample EQ2400328-02			Duplicate Lab Control Sample EQ2400328-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.102	0.100	102	0.113	0.100	113	84-119	10	15

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400684
Project:	HS24060434	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400328-02	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.102**		0.100	0.0500	0.0250	1	6/19/24	6/19/24 13:15	440258	844810	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400684
Project:	HS24060434	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400328-03	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.113**		0.100	0.0500	0.0250	1	6/19/24	6/19/24 13:20	440258	844810	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400684
Project:	HS24060434	**Date Collected:**	06/06/24
Sample Matrix:	Ground Water	**Date Received:**	06/07/24
		Date Analyzed:	06/19/24
		Date Extracted:	06/19/24

Duplicate Matrix Spike Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Sample Name:	18WW14_060624	**Units:**	ug/L
Lab Code:	E2400684-009	**Basis:**	NA
Analysis Method:	6850		
Prep Method:	Method		

		Matrix Spike EQ2400328-05			Duplicate Matrix Spike EQ2400328-06					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.808	0.987	0.100	178 #	0.967	0.100	159 #	84-119	2	15

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400684
Project:	HS24060434	**Date Collected:**	6/ 6/24 1220
Sample Matrix:	Ground Water	**Date Received:**	6/ 7/24
Sample Name:	18WW14_060624	**Units:**	µg/L
Lab Code:	EQ2400328-05	**Basis:**	NA
Run Type:	Matrix Spike		

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.987**		0.100	0.0500	0.0250	1	6/19/24	6/19/24 13:26	440258	844810	

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400684
Project:	HS24060434	**Date Collected:**	6/ 6/24 1220
Sample Matrix:	Ground Water	**Date Received:**	6/ 7/24
Sample Name:	18WW14_060624	**Units:**	µg/L
Lab Code:	EQ2400328-06	**Basis:**	NA
Run Type:	Duplicate Matrix Spike		

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.967**		0.100	0.0500	0.0250	1	6/19/24	6/19/24 13:31	440258	844810	

HS24060434-MSSEMI-SW8270SIM REV01

ALS WO# HS24060434

right solutions.
right partner.

Form 2

System Monitoring Compound Recovery

Semi-Volatiles by Semivolatiles SIM

Workorder

HS24060434

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 18/24

07/18/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 18/24

Workorder **HS24060434**

Semi-Volatiles by Semivolatiles SIM

RUNID SV-6-470076

MW2_060624

	Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID HS24060434-01	Groundwater	06/20/24 16:32	%REC	1
Instrument ID SV6				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	19.D	0.061	0.08	75.8		40-140
4-Terphenyl-d14	19.D	0.072	0.08	90.3		40-140
Nitrobenzene-d5	19.D	0.098	0.08	122		40-140

18CPTMW01DW_060624

	Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID HS24060434-02	Groundwater	06/20/24 16:49	%REC	1
Instrument ID SV6				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	20.D	0.056	0.08	70.4		40-140
4-Terphenyl-d14	20.D	0.063	0.08	78.2		40-140
Nitrobenzene-d5	20.D	0.065	0.08	80.7		40-140

18CPTMW01SW_060624

	Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID HS24060434-03	Groundwater	06/20/24 17:06	%REC	1
Instrument ID SV6				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	21.D	0.052	0.08	65.2		40-140
4-Terphenyl-d14	21.D	0.061	0.08	75.9		40-140
Nitrobenzene-d5	21.D	0.061	0.08	76.4		40-140

18CPTMW07_060624

	Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID HS24060434-06	Groundwater	06/20/24 17:24	%REC	1
Instrument ID SV6				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	22.D	0.076	0.08	95.6		40-140
4-Terphenyl-d14	22.D	0.069	0.08	86.3		40-140
Nitrobenzene-d5	22.D	0.074	0.08	92.8		40-140

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 18/24

Workorder HS24060434

Semi-Volatiles by Semivolatiles SIM

RUNID SV-6-470076

18CPTMW24_060624

Matrix	Analysis Date	Conc Units	Dilution
Groundwater	06/20/24 17:41	%REC	1

Lab Sample ID HS24060434-07

Instrument ID SV6

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	23.D	0.07	0.08	87.6		40-140
4-Terphenyl-d14	23.D	0.079	0.08	98.1		40-140
Nitrobenzene-d5	23.D	0.071	0.08	88.9		40-140

MW8_060624

Matrix	Analysis Date	Conc Units	Dilution
Groundwater	06/20/24 17:59	%REC	1

Lab Sample ID HS24060434-08

Instrument ID SV6

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	24.D	0.072	0.08	89.4		40-140
4-Terphenyl-d14	24.D	0.067	0.08	83.9		40-140
Nitrobenzene-d5	24.D	0.054	0.08	67.4		40-140

LCS-213281

Matrix	Analysis Date	Conc Units	Dilution
Aqueous	06/20/24 15:56	%REC	1

Lab Sample ID LCS-213281

Instrument ID SV6

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	17.D	0.07302	0.08	91.3		40-140
4-Terphenyl-d14	17.D	0.06839	0.08	85.5		40-140
Nitrobenzene-d5	17.D	0.06417	0.08	80.2		40-140

LCSD-213281

Matrix	Analysis Date	Conc Units	Dilution
Aqueous	06/20/24 16:14	%REC	1

Lab Sample ID LCSD-213281

Instrument ID SV6

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	18.D	0.07371	0.08	92.1		40-140
4-Terphenyl-d14	18.D	0.07881	0.08	98.5		40-140
Nitrobenzene-d5	18.D	0.0648	0.08	81.0		40-140

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 18/24

Workorder HS24060434

Semi-Volatiles by Semivolatiles SIM

RUNID SV-6-470076

MBLK-213281

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	MBLK-213281	Aqueous	06/20/24 15:39	%REC	1
Instrument ID	SV6				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
2-Fluorobiphenyl	16.D	0.06622	0.08	82.8		40-140
4-Terphenyl-d14	16.D	0.07136	0.08	89.2		40-140
Nitrobenzene-d5	16.D	0.06596	0.08	82.4		40-140

right solutions.
right partner.

Form 3B

Laboratory Control Sample Recovery

EPA 3510

Workorder

HS24060434

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 18/24

07/18/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 18/24

Workorder HS24060434

EPA 3510

SAMPLENUM LCS-213281

SV-6_470076				LCS-213281		LCSD-213281					
Spike Matrix	Aqueous	Result Units	ug/L	Run Date	06/20/24	Run Date	06/20/24				
Prep Date	06/11/24	Analysis Batch	213281	Run Time	15:56	Run Time	16:14				
Prep Method	SW3510	Prep Batch	213281	Prep Amt	1000 mL	Prep Amt	1000 mL				

Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	LCSD Result	%R	Q	RPD Limit	RPD	Q
1,4-Dioxane	40-140	0.08	0.0878	110		0.07841	98		20	11.3	

right solutions.
right partner.

Form 4

Method Blank Summary

EPA 3510

Workorder

HS24060434

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 18/24

07/18/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 4 - Method Blank Summary

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 18/24

Workorder HS24060434

EPA 3510

METHOD BLANK	Prep Date	Prep Batch	Matrix	Analysis Date	Analysis Batch	Inst ID
MBLK-213281	06/11/24	213281	Aqueous	06/20/24 15:39	213281	SV6

Client Sample ID	Lab Sample ID	Type	Analysis Date	Analysis Batch	Inst ID	FileID
LCS-213281	LCS-213281	LCS	06/20/24 15:56	213281	SV6	17.D
LCSD-213281	LCSD-213281	LCSD	06/20/24 16:14	213281	SV6	18.D
MW2_060624	HS24060434-01	SAMP	06/20/24 16:32	213281	SV6	19.D
18CPTMW01DW_060624	HS24060434-02	SAMP	06/20/24 16:49	213281	SV6	20.D
18CPTMW01SW_060624	HS24060434-03	SAMP	06/20/24 17:06	213281	SV6	21.D
18CPTMW07_060624	HS24060434-06	SAMP	06/20/24 17:24	213281	SV6	22.D
18CPTMW24_060624	HS24060434-07	SAMP	06/20/24 17:41	213281	SV6	23.D
MW8_060624	HS24060434-08	SAMP	06/20/24 17:59	213281	SV6	24.D

right solutions.
right partner.

Form 5

Instrument Performance Check

Semi-Volatiles by Semivolatiles SIM

Workorder

HS24060434

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 18/24

07/18/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDGA80227

Lab File ID: 01 BFB Injection Date: 04/18/24

Instrument ID: SV6 BFB Injection Time: 1039

GC Column: DB-5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	23.6
68	Less than 2.0% of mass 69	0.5 (1.8)1
69	Mass 69 relative abundance	28.8
70	Less than 2.0% of mass 69	0.2 (0.5)1
127	10.0 - 80.0% of mass 198	39.7
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	30.4
365	1.0 - 100.0% of mass 198	4.0
441	Present, but less than mass 443	20.5
442	50.0 - 150.0% of mass 198	139.9
443	15.0 - 24.0% of mass 442	27.6 (19.7)2

1-Value is % mass 69 2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SLSTD-2.5	SLSTD-2.5	02	04/18/24	1051
02	14DX-0.08	14DX-0.08	03A	04/18/24	1224
03		14DX-0.01	04	04/18/24	1249
04		14DX-0.03	05	04/18/24	1307
05		14DX-0.05	06	04/18/24	1325
06		14DX-0.10	07	04/18/24	1342
07		14DX-0.15	08	04/18/24	1400
08		14DX-0.20	09	04/18/24	1418
09		14DX-0.50	10	04/18/24	1435
10	14DX ICV-0.08	14DX ICV-0.08	11	04/18/24	1453
11					
12					
13					
14					
15					
16					
17					
18					

FORM V SV

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDGA71345

Lab File ID: 01 BFB Injection Date: 06/20/24

Instrument ID: SV6 BFB Injection Time: 1005

GC Column: DB-5MS ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	26.4
68	Less than 2.0% of mass 69	0.5 (1.7)1
69	Mass 69 relative abundance	29.9
70	Less than 2.0% of mass 69	0.2 (0.6)1
127	10.0 - 80.0% of mass 198	40.2
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	28.1
365	1.0 - 100.0% of mass 198	3.1
441	Present, but less than mass 443	17.2
442	50.0 - 150.0% of mass 198	119.8
443	15.0 - 24.0% of mass 442	23.8 (19.9)2

1-Value is % mass 69 2-Value is % mass 442

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	14DX-0.08	14DX-0.08	04	06/20/24	1136
02	MBLK-213281	MBLK-213281	16	06/20/24	1539
03	LCS-213281	LCS-213281	17	06/20/24	1556
04	LCSD-213281	LCSD-213281	18	06/20/24	1614
05	HS24060434-01	HS24060434-01	19	06/20/24	1632
06	HS24060434-02	HS24060434-02	20	06/20/24	1649
07	HS24060434-03	HS24060434-03	21	06/20/24	1706
08	HS24060434-06	HS24060434-06	22	06/20/24	1724
09	HS24060434-07	HS24060434-07	23	06/20/24	1741
10	HS24060434-08	HS24060434-08	24	06/20/24	1759
11	14DX-0.08	14DX-0.08	31	06/20/24	2001
12					
13					
14					
15					
16					
17					
18					

FORM V SV

Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 18/24

Workorder **HS24060434**

Semi-Volatiles by Semivolatiles SIM

RUNID SV-6-470076

Tune File 01.D 06/20/24 6/20/2024

m / e	Ion Abundance Criterion	%RA
51	10.0 - 80.0% of mass 198	26.4 (26.4)
68	Less than 2.0% of mass 69	0.5 (1.75) 1
69	Mass 69 RA	29.9 (29.9)
70	Less than 2.0% of mass 69	0.2 (0.609) 1
127	10.0 - 80.0% of mass 198	40.2 (40.2)
197	Less than 2.0% of mass 198	0 (0)
198	Base peak, 100% RA	100 (83.5)
199	5.0 - 9.0% of mass 198	6.8 (6.84)
275	10.0 - 60.0% of mass 198	28.1 (28.1)
365	Greater than 1.0% of mass 198	3.1 (3.12)
441	Present, but < 24.0% of mass 442	17.2 (72.2)
442	greater than 50.0% of mass 198	119.8 (120)
443	15.0 - 24.0% of mass 442	23.8 (19.9) 2

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	14DX-0.08	CCV	6/20/2024	04	14DX-0.08
2	MBLK-213281	MBLK	6/20/2024	16	MBLK-213281
3	LCS-213281	LCS	6/20/2024	17	LCS-213281
4	LCSD-213281	LCSD	6/20/2024	18	LCSD-213281
5	HS24060434-	SAMP	6/20/2024	19	MW2_060624
6	HS24060434-	SAMP	6/20/2024	20	18CPTMW01DW_060624
7	HS24060434-	SAMP	6/20/2024	21	18CPTMW01SW_060624
8	HS24060434-	SAMP	6/20/2024	22	18CPTMW07_060624
9	HS24060434-	SAMP	6/20/2024	23	18CPTMW24_060624
10	HS24060434-	SAMP	6/20/2024	24	MW8_060624
11	14DX-0.08	CCV	6/20/2024	31	14DX-0.08
12	14DX-0.08	CCV	6/21/2024	28	14DX-0.08

Report Date : 06-Jun-2024 14:30 Page 1

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 10-MAR-2022 10:25
End Cal Date : 18-APR-2024 14:35
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Last Edit : 06-Jun-2024 11:07 SV6.i
Curve Type : Average

Calibration File Names:
Level 1: \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Level 2: \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Level 3: \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Level 4: \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Level 5: \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Level 6: \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Level 7: \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Level 8: \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D

Compound	0.01000 Level 1 / 0.20000 Level 7	0.03000 Level 2 / 0.50000 Level 8	0.05000 Level 3	0.08000 Level 4	0.10000 Level 5	0.15000 Level 6	___ RRF	% RSD
1 1,4-Dioxane	0.26786 / 0.21892	0.20193 / 0.19957	0.21510	0.19340	0.20406	0.21271	0.21419	10.884
$ 9 2-Fluorophenol	##### / #####	##### / #####	#####	#####	#####	#####	#####	#####
$ 13 Phenol-d6	##### / #####	##### / #####	#####	#####	#####	#####	#####	#####

$ 33 Nitrobenzene-d5	0.25417	0.27709	0.33446	0.25539	0.31770	0.31230		
	0.32399	0.32657					0.30021	10.938
$ 69 2-Fluorobiphenyl	1.58567	1.48291	1.52552	1.25243	1.62605	1.59900		
	1.54935	1.60832					1.52866	7.930
$ 105 2,4,6-Tribromophenol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
$ 158 4-Terphenyl-d14	2.22448	1.99483	2.00359	1.46918	2.10278	2.04892		
	2.19122	2.26244					2.03718	12.300

right solutions.
right partner.

Form 6I

Initial Calibration Verification (ICV)

Semi-Volatiles by Semivolatiles SIM

Workorder

HS24060434

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 18/24

07/18/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

FORM 3
WATER SEMIVOLATILE METHOD SPIKE RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDGA71345

Matrix Spike - Sample No.: 14DX ICV-0.08

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	% REC #	QC. LIMITS REC.
1,4-Dioxane	0.08000	0.07572	95	40-140

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM III SV

right solutions.
right partner.

Form 7

Continuing Calibration Verification (CCV)

Semi-Volatiles by Semivolatiles SIM

Workorder

HS24060434

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 18/24

07/18/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 18/24

Workorder HS24060434

RunID 04.D

Semi-Volatiles by Semivolatiles SIM

Instrument ID SV6.i
Lab File ID 04.D
Analysis Type WATER
Lab Sample ID 14DX-0.08

Injection Date 20-JUN-2024 1136
ICAL Date(s) 10-MAR-2022, 18-APR-2024
ICAL Times 10:25, 14:35
Quant Type ISTD

Compound	RRF / Conc	RF0.080	Min RRF	%D / %DRIFT	Max %D / %DRIFT	CURVE TYPE	Q
33 Nitrobenzene-d5	0.300	0.269	0.010	-10.430	20.0	Averaged	
69 2-Fluorobiphenyl	1.53	1.40	0.010	-8.233	20.0	Averaged	
158 4-Terphenyl-d14	2.04	1.72	0.010	-15.651	20.0	Averaged	
1,4-Dioxane	0.214	0.185	0.010	-13.617	20.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 18/24

Workorder HS24060434

RunID 28.D

Semi-Volatiles by Semivolatiles SIM

Instrument ID SV6.i
Lab File ID 28.D
Analysis Type WATER
Lab Sample ID 14DX-0.08

Injection Date 21-JUN-2024 2010
ICAL Date(s) 10-MAR-2022, 18-APR-2024
ICAL Times 10:25, 14:35
Quant Type ISTD

Compound	RRF / Conc	RF0.080	Min RRF	%D / %DRIFT	Max %D / %DRIFT	CURVE TYPE	Q
33 Nitrobenzene-d5	0.300	0.265	0.010	-11.640	20.0	Averaged	
69 2-Fluorobiphenyl	1.53	1.43	0.010	-6.735	20.0	Averaged	
158 4-Terphenyl-d14	2.04	1.64	0.010	-19.633	20.0	Averaged	
1,4-Dioxane	0.214	0.203	0.010	-5.070	20.0	Averaged	

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDGA71345

Lab File ID (Standard): 04 Date Analyzed: 06/20/24

Instrument ID: SV6 Time Analyzed: 1136

GC Column: RTX-5SIL MS ID: 0.28 (mm) Heated Purge: (Y/N) N

		IS1(DCB) AREA #	IS1(DCB) RT #	IS2(NPT) AREA #	IS2(NPT) RT #	IS3(ANT) AREA #	IS3(ANT) RT #
	12 HOUR STD	1770	2.15	5755	3.14	3395	4.74
	UPPER LIMIT	3540	2.65	11510	3.64	6790	5.24
	LOWER LIMIT	885	1.65	2878	2.64	1698	4.24
	CLIENT SAMPLE NO.						
01	MBLK-213281	1899	2.16	5914	3.15	3483	4.74
02	LCS-213281	2361	2.15	5253	3.14	2727	4.74
03	LCSD-213281	2447	2.15	5536	3.14	2912	4.74
04	HS24060434-01	1498	2.15	2958	3.14	1720	4.74
05	HS24060434-02	1611	2.15	4810	3.14	2983	4.74
06	HS24060434-03	1498	2.15	4054	3.14	2441	4.74
07	HS24060434-06	2280	2.15	4236	3.14	2604	4.74
08	HS24060434-07	2132	2.15	4093	3.14	2273	4.74
09	HS24060434-08	2086	2.15	4035	3.15	2227	4.74
10	14DX-0.08	1724	2.16	5497	3.15	2951	4.74
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM VIII SV

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDGA71345

Lab File ID (Standard): 04 Date Analyzed: 06/20/24

Instrument ID: SV6 Time Analyzed: 1136

GC Column: RTX-5SIL MS ID: 0.28 (mm) Heated Purge: (Y/N) N

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	6836	6.14	6347	8.68	5782	10.31
	UPPER LIMIT	13672	6.64	12694	9.18	11564	10.81
	LOWER LIMIT	3418	5.64	3174	8.18	2891	9.81
	CLIENT SAMPLE NO.						
01	MBLK-213281	6838	6.14	5909	8.69	5905	10.31
02	LCS-213281	5325	6.14	4597	8.69	4640	10.31
03	LCSD-213281	5678	6.15	4856	8.69	4892	10.31
04	HS24060434-01	9994	6.14	3377	8.69	3113	10.31
05	HS24060434-02	6112	6.14	5965	8.69	6093	10.32
06	HS24060434-03	4893	6.14	4483	8.69	4684	10.32
07	HS24060434-06	5073	6.15	4592	8.69	4941	10.32
08	HS24060434-07	4335	6.15	4064	8.69	4314	10.32
09	HS24060434-08	4274	6.15	3896	8.69	4165	10.32
10	14DX-0.08	5443	6.15	4854	8.69	5561	10.32
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

FORM VIII SV

Prep Batch Report

Batch ID:	213281	**Init Sample Weight / Volume:**	1000
Prep Code:	3510_B_SIM	**Final Sample Volume:**	1
Start Date:	11 Jun 2024 07:00 AM	**Original Factor:**	0.001
End Date:	11 Jun 2024 11:00 AM	**Prep Unit Factor:**	1
Technician:	jason.hong	**Prep Unit:**	mL

Sample ID	Fraction	Matrix	pH	Initial Weight / Volume	Final Volume	Prep Factor	Spike Factor	Comments
HS24060434-01	C	Groundwater	6	1000	1	0.001	1	PH ADJ 1/13, NO Cl
HS24060434-02	D	Groundwater	7	1000	1	0.001	1	PH ADJ 1/13, NO Cl
HS24060434-03	D	Groundwater	6	1000	1	0.001	1	PH ADJ 1/13, NO Cl
HS24060434-06	B	Groundwater	10	1000	1	0.001	1	PH ADJ 1/13, NO Cl
HS24060434-07	B	Groundwater	6	1000	1	0.001	1	PH ADJ 1/13, NO Cl
HS24060434-08	B	Groundwater	4	1000	1	0.001	1	PH ADJ 1/13, NO Cl
HS24060487-01	A	Waste Water	10	1000	1	0.001	1	PH ADJ 1/13, NO Cl
HS24060487-02	A	Waste Water	6	1000	1	0.001	1	PH ADJ 1/13, NO Cl
HS24060487-06	A	Waste Water	6	1000	1	0.001	1	PH ADJ 1/13, NO Cl
HS24060487-07	A	Waste Water	6	1000	1	0.001	1	PH ADJ 1/13, NO Cl
HS24060487-08	A	Waste Water	6	1000	1	0.001	1	PH ADJ 1/13, NO Cl
HS24060487-09	A	Waste Water	5	1000	1	0.001	1	PH ADJ 1/13, NO Cl
HS24060586-01	A	Water	7	1000	1	0.001	1	PH ADJ 1/13, NO Cl, TAT 10 DAYS
HS24060586-02	A	Water	7	1000	1	0.001	1	PH ADJ 1/13, NO Cl, TAT 10 DAYS
HS24060586-03	A	Water	7	1000	1	0.001	1	PH ADJ 1/13, NO Cl, TAT 10 DAYS
HS24060586-04	A	Water	7	1000	1	0.001	1	PH ADJ 1/13, NO Cl, TAT 10 DAYS
HS24060586-05	A	Water	7	1000	1	0.001	1	PH ADJ 1/13, NO Cl, TAT 10 DAYS
HS24060586-06	A	Water	7	1000	1	0.001	1	PH ADJ 1/13, NO Cl, TAT 10 DAYS
LCS-213281	A			1000	1	0.001	1	
LCSD-213281	A			1000	1	0.001	1	
MBLK-213281	A			1000	1	0.001	1	

Prep Batch Report

Batch ID:	213281	**Init Sample Weight / Volume:**	1000
Prep Code:	3510_B_SIM	**Final Sample Volume:**	1
Start Date:	11 Jun 2024 07:00 AM	**Original Factor:**	0.001
End Date:	11 Jun 2024 11:00 AM	**Prep Unit Factor:**	1
Technician:	jason.hong	**Prep Unit:**	mL

Stage	Description	Value
3510/3511	Chlorine Strips ID:	3001070211-06
3510_B	pH Paper:	300107092-11
3510_B	Methylene Chloride ID:	300107098-18
3510_B	50% NaoH ID:	300107078-21
3510_B	NaoH Volume (mL):	8
3510_B	50:50 Sulfuric Acid ID:	300107095-06
3510_B	Sulfuric Acid Volume (mL):	8ml
3510_B	Syringe ID:	3510-bsim
3510_B	LCS/MS Spike ID:	3231538-11
3510_B	LCS/MS Volume (mL):	1ml
3510_B	LCS/MS Spike #2 ID (If needed):	3231510-05
3510_B	LCS/MS Spike #2 Volume (mL):	1
3510_B	LCS/MS Spike #3 ID (If needed):	na
3510_B	LCS/MS Spike #3 Volume (mL):	na
3510_B	Sodium Sulfate ID:	3142131-21
3510_B	Glass Wool ID:	300107067-15
3510_B	TurboVap Unit(s):	j (1-6) n (7-9)d()l()
3510_B	TurboVap Temp (C):	39-40
3510_B	TurboVap Pressure (PSI):	9-11
3510_B	Time in TurboVap (Hrs):	1.5 hr
3510_B	Vial Lot:	300107091-08
3510_B	CleanUp Performed:	na
3510_B	Surrogate ID:	320077506
3510_B	Surrogate Volume (mL):	1ml

right solutions.
right partner.

Analysis Run Log

Semi-Volatiles by Semivolatiles SIM

Workorder

HS24060434

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 18/24

07/18/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

SV06 -Logbook

Batch: 60458 **Analyst:** Marco Gutierrez

Date: 06-20-2024 **Reviewer:**

Method: R8270D LVI/14DX **Laboratory:** Houston

Comments:

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
1	DFTPP	TUNE	06-20-2024 10:05 am	1.00	0.00 gm	0.00 mL	01.D		Y	NA
2	SLSTD-2.5	CCV	06-20-2024 10:17 am	1.00	1000.00 mL	1000.00 mL	02.D	Liquid	Y	NA
3	PAHLVI-0.025	CCV	06-20-2024 11:16 am	1.00	33.00 mL	2000.00 mL	03.D	Liquid	Y	NA
4	14DX-0.08	CCV	06-20-2024 11:36 am	1.00	1000.00 mL	1000.00 mL	04.D	Liquid	Y	NA
5	SIM CCB	SAMP	06-20-2024 11:59 am	1.00	1000.00 mL	1000.00 mL	05.D	Liquid	Y	NA
6	LCSD-213750	LCSD	06-20-2024 12:17 pm	1.00	33.00 mL	2000.00 mL	06.D	Liquid	Y	NA
7	HS24060313-09	SAMP	06-20-2024 12:37 pm	10000.(	33.00 mL	2000.00 mL	07.D	Liquid	Y	NA
8	HS24060815-01	SAMP	06-20-2024 12:57 pm	1.00	33.00 mL	2000.00 mL	08.D	Liquid	Y	NA
9	HS24060815-01	SAMP	06-20-2024 01:18 pm	10.00	33.00 mL	2000.00 mL	09.D	Liquid	Y	NA
10	HS24060313-05	SAMP	06-20-2024 01:38 pm	10000.(	33.00 mL	2000.00 mL	10.D	Liquid	Y	NA
11	HS24060313-06	SAMP	06-20-2024 01:58 pm	10000.(	33.00 mL	2000.00 mL	11.D	Liquid	Y	NA
12	HS24060815-01	SAMP	06-20-2024 02:18 pm	100.0(	33.00 mL	2000.00 mL	12.D	Liquid	Y	NA
13	HS24060771-07	SAMP	06-20-2024 02:38 pm	10.00	33.00 mL	2000.00 mL	13.D	Liquid	Y	NA
14	HS24060771-08	SAMP	06-20-2024 02:59 pm	10.00	33.00 mL	2000.00 mL	14.D	Liquid	Y	NA
15	HS24060771-08	SAMP	06-20-2024 03:19 pm	100.0(	33.00 mL	2000.00 mL	15.D	Liquid	Y	NA
16	MBLK-213281	SAMP	06-20-2024 03:39 pm	1.00	1000.00 mL	1000.00 mL	16.D	Liquid	Y	NA
17	LCS-213281	SAMP	06-20-2024 03:56 pm	1.00	1000.00 mL	1000.00 mL	17.D	Liquid	Y	NA
18	LCSD-213281	SAMP	06-20-2024 04:14 pm	1.00	1000.00 mL	1000.00 mL	18.D	Liquid	Y	NA
19	HS24060434-01	SAMP	06-20-2024 04:32 pm	1.00	1000.00 mL	1000.00 mL	19.D	Liquid	Y	NA
20	HS24060434-02	SAMP	06-20-2024 04:49 pm	1.00	1000.00 mL	1000.00 mL	20.D	Liquid	Y	NA
21	HS24060434-03	SAMP	06-20-2024 05:06 pm	1.00	1000.00 mL	1000.00 mL	21.D	Liquid	Y	NA
22	HS24060434-06	SAMP	06-20-2024 05:24 pm	1.00	1000.00 mL	1000.00 mL	22.D	Liquid	Y	NA
23	HS24060434-07	SAMP	06-20-2024 05:41 pm	1.00	1000.00 mL	1000.00 mL	23.D	Liquid	Y	NA
24	HS24060434-08	SAMP	06-20-2024 05:59 pm	1.00	1000.00 mL	1000.00 mL	24.D	Liquid	Y	NA
25	HS24060487-01	SAMP	06-20-2024 06:16 pm	1.00	1000.00 mL	1000.00 mL	25.D	Liquid	Y	NA
26	HS24060487-02	SAMP	06-20-2024 06:34 pm	1.00	1000.00 mL	1000.00 mL	26.D	Liquid	Y	NA
27	HS24060487-06	SAMP	06-20-2024 06:51 pm	1.00	1000.00 mL	1000.00 mL	27.D	Liquid	Y	NA
28	HS24060487-07	SAMP	06-20-2024 07:09 pm	1.00	1000.00 mL	1000.00 mL	28.D	Liquid	Y	NA
29	HS24060487-08	SAMP	06-20-2024 07:26 pm	1.00	1000.00 mL	1000.00 mL	29.D	Liquid	Y	NA
30	HS24060487-09	SAMP	06-20-2024 07:43 pm	1.00	1000.00 mL	1000.00 mL	30.D	Liquid	Y	NA
31	14DX-0.08	SAMP	06-20-2024 08:01 pm	1.00	1000.00 mL	1000.00 mL	31.D	Liquid	Y	NA
32	SIM CCB	SAMP	06-20-2024 08:18 pm	1.00	1000.00 mL	1000.00 mL	32.D	Liquid	Y	NA
33	HS24060586-01	SAMP	06-20-2024 08:36 pm	1.00	1000.00 mL	1000.00 mL	33.D	Liquid	Y	NA
34	HS24060586-02	SAMP	06-20-2024 08:53 pm	1.00	1000.00 mL	1000.00 mL	34.D	Liquid	Y	NA
35	HS24060586-03	SAMP	06-20-2024 09:11 pm	1.00	1000.00 mL	1000.00 mL	35.D	Liquid	Y	NA
36	HS24060586-04	SAMP	06-20-2024 09:28 pm	1.00	1000.00 mL	1000.00 mL	36.D	Liquid	Y	NA
37	HS24060586-05	SAMP	06-20-2024 09:46 pm	1.00	1000.00 mL	1000.00 mL	37.D	Liquid	Y	NA
38	HS24060586-06	SAMP	06-20-2024 10:03 pm	1.00	1000.00 mL	1000.00 mL	38.D	Liquid	Y	NA
39	HS24060967-01X10	SAMP	06-20-2024 10:20 pm	1.00	33.00 mL	2000.00 mL	39.D	Liquid	Y	NA
40	HS24060967-01X1H	SAMP	06-20-2024 10:41 pm	1.00	33.00 mL	2000.00 mL	40.D	Liquid	Y	NA
41	HS24060967-02X10	SAMP	06-20-2024 11:01 pm	1.00	33.00 mL	2000.00 mL	41.D	Liquid	Y	NA

SV06 -Logbook

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
42	HS24061064-03RR	SAMP	06-20-2024 11:21 pm	1.00	33.00 mL	2000.00 mL	42.D	Liquid	Y	NA

SV06 -Logbook

Batch: 59721 **Analyst:** Marco Gutierrez

Date: 04-18-2024 **Reviewer:**

Method: R8270D 14dx ICAL **Laboratory:** Houston

Comments:

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
1	DFTPP	TUNE	04-18-2024 10:39 am	1.00	0.00 gm	0.00 mL	01.D		Y	NA
2	SLSTD-2.5	CCV	04-18-2024 10:51 am	1.00	1000.00 mL	1000.00 mL	02.D	Liquid	Y	NA
3	14DX-0.08	ICAL4	04-18-2024 12:24 pm	1.00	1000.00 mL	1000.00 mL	03A.D	Liquid	Y	NA
4	14DX-0.01	ICAL1	04-18-2024 12:49 pm	1.00	1000.00 mL	1000.00 mL	04.D	Liquid	Y	NA
5	14DX-0.03	ICAL2	04-18-2024 01:07 pm	1.00	1000.00 mL	1000.00 mL	05.D	Liquid	Y	NA
6	14DX-0.05	ICAL3	04-18-2024 01:25 pm	1.00	1000.00 mL	1000.00 mL	06.D	Liquid	Y	NA
7	14DX-0.10	ICAL5	04-18-2024 01:42 pm	1.00	1000.00 mL	1000.00 mL	07.D	Liquid	Y	NA
8	14DX-0.15	ICAL6	04-18-2024 02:00 pm	1.00	1000.00 mL	1000.00 mL	08.D	Liquid	Y	NA
9	14DX-0.20	ICAL7	04-18-2024 02:18 pm	1.00	1000.00 mL	1000.00 mL	09.D	Liquid	Y	NA
10	14DX-0.50	ICAL8	04-18-2024 02:35 pm	1.00	1000.00 mL	1000.00 mL	10.D	Liquid	Y	NA
11	14DX ICV-0.08	ICV	04-18-2024 02:53 pm	1.00	1000.00 mL	1000.00 mL	11.D	Liquid	Y	NA
12	SIM CCB	SAMP	04-18-2024 04:10 pm	1.00	1000.00 mL	1000.00 mL	12.D	Liquid	Y	NA
13	MBLK-210508	SAMP	04-18-2024 04:28 pm	1.00	1000.00 mL	1000.00 mL	13.D	Liquid	Y	NA
14	LCS-210508	SAMP	04-18-2024 04:45 pm	1.00	1000.00 mL	1000.00 mL	14.D	Liquid	Y	NA
15	LCSD-210508	SAMP	04-18-2024 05:03 pm	1.00	1000.00 mL	1000.00 mL	15.D	Liquid	Y	NA
16	HS24040786-01	SAMP	04-18-2024 05:21 pm	1.00	1000.00 mL	1000.00 mL	16.D	Liquid	Y	NA
17	14DX-0.08	SAMP	04-18-2024 05:38 pm	1.00	1000.00 mL	1000.00 mL	17.D	Liquid	Y	NA
18	SIM CCB	SAMP	04-18-2024 05:56 pm	1.00	1000.00 mL	1000.00 mL	18.D	Liquid	Y	NA
19	HS24040667-03	SAMP	04-18-2024 06:14 pm	1.00	1000.00 mL	1000.00 mL	19.D	Liquid	Y	NA
20	HS24040816-04	SAMP	04-18-2024 06:31 pm	1.00	1000.00 mL	1000.00 mL	20.D	Liquid	Y	NA
21	HS24040816-05	SAMP	04-18-2024 06:49 pm	1.00	1000.00 mL	1000.00 mL	21.D	Liquid	Y	NA
22	HS24040816-06	SAMP	04-18-2024 07:06 pm	1.00	1000.00 mL	1000.00 mL	22.D	Liquid	Y	NA
23	HS24041063-01	SAMP	04-18-2024 07:24 pm	1.00	1000.00 mL	1000.00 mL	23.D	Liquid	Y	NA
24	HS24041063-02	SAMP	04-18-2024 07:41 pm	1.00	1000.00 mL	1000.00 mL	24.D	Liquid	Y	NA
25	HS24041063-03	SAMP	04-18-2024 07:59 pm	1.00	1000.00 mL	1000.00 mL	25.D	Liquid	Y	NA

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 18/24

Workorder **HS24060434**

Semi-Volatiles by Semivolatiles SIM

RUNID SV-6-470076

Run ID SV-6_470076 **Start Date** 06/20/24 **EndDate** 06/21/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
11:36	14DX-0.08	CCV	14DX-0.08	04.D	06/20/24	1
15:39	MBLK-213281	MBLK	MBLK-213281	16.D	06/20/24	1
16:41	HS24060487-09	SAMP	ZZZZZZZZZZ	16.D	06/21/24	10
15:56	LCS-213281	LCS	LCS-213281	17.D	06/20/24	1
16:14	LCSD-213281	LCSD	LCSD-213281	18.D	06/20/24	1
16:32	HS24060434-01	SAMP	MW2_060624	19.D	06/20/24	1
16:49	HS24060434-02	SAMP	18CPTMW01DW_0606	20.D	06/20/24	1
17:06	HS24060434-03	SAMP	18CPTMW01SW_0606	21.D	06/20/24	1
17:24	HS24060434-06	SAMP	18CPTMW07_060624	22.D	06/20/24	1
17:41	HS24060434-07	SAMP	18CPTMW24_060624	23.D	06/20/24	1
17:59	HS24060434-08	SAMP	MW8_060624	24.D	06/20/24	1
18:16	HS24060487-01	SAMP	ZZZZZZZZZZ	25.D	06/20/24	1
18:34	HS24060487-02	SAMP	ZZZZZZZZZZ	26.D	06/20/24	1
18:51	HS24060487-06	SAMP	ZZZZZZZZZZ	27.D	06/20/24	1
19:09	HS24060487-07	SAMP	ZZZZZZZZZZ	28.D	06/20/24	1
20:10	14DX-0.08	CCV	14DX-0.08	28.D	06/21/24	1
19:26	HS24060487-08	SAMP	ZZZZZZZZZZ	29.D	06/20/24	1
20:01	14DX-0.08	CCV	14DX-0.08	31.D	06/20/24	1
20:36	HS24060586-01	SAMP	ZZZZZZZZZZ	33.D	06/20/24	1
21:11	HS24060586-03	SAMP	ZZZZZZZZZZ	35.D	06/20/24	1

right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24060434

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 18/24

07/18/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

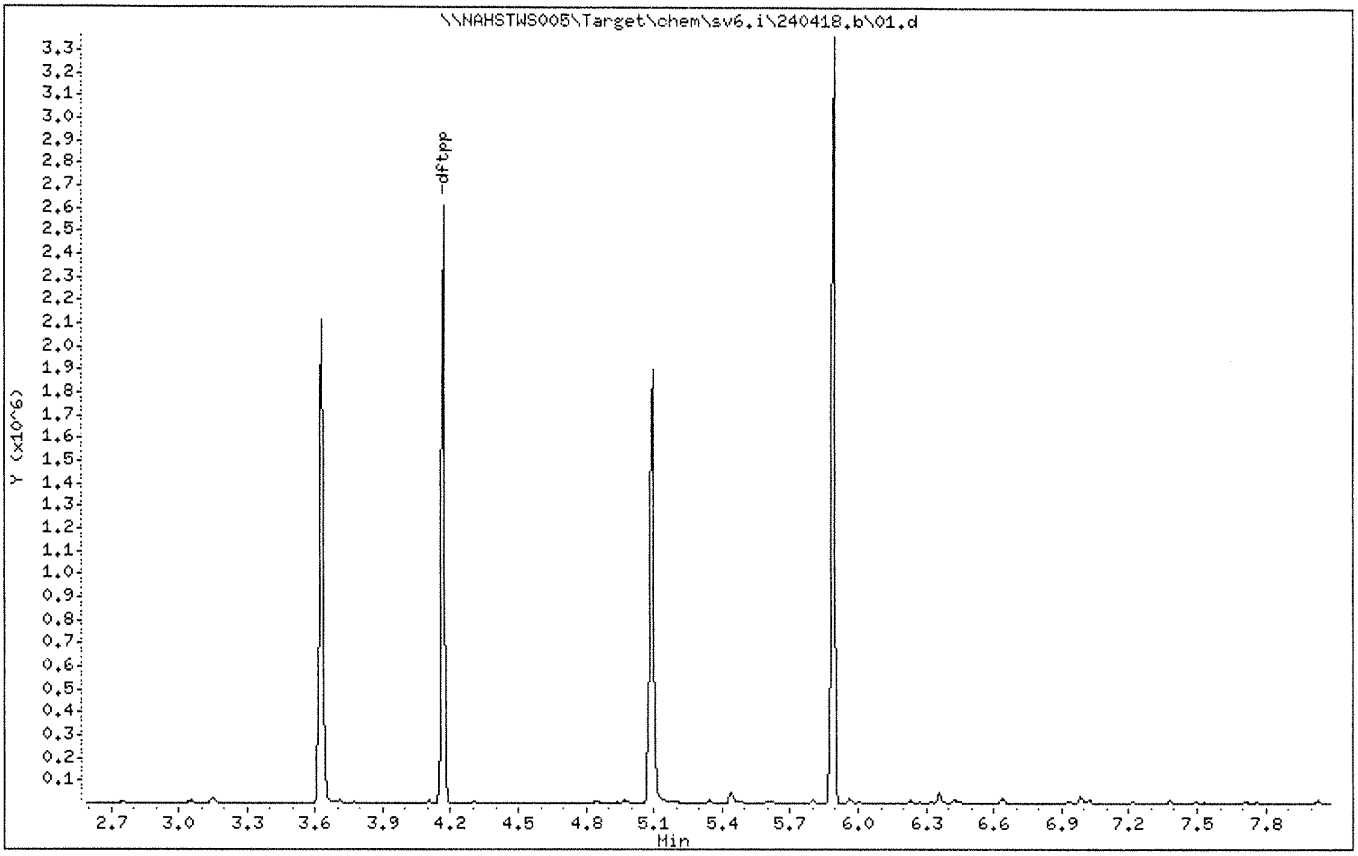
Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 18-APR-2024 10:39
Operator : smith Inst ID: SV6.i
Smp Info : DFTPP;DFTPP;3;;DFTPP
Misc Info :
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DFTPP.m
Meth Date : 14-Mar-2023 15:58 Linh.Pham Quant Type: AREA%
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: NAHSTW7095

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.630	2402424	2118085	0.882	22.89	
4.170	2400277	2609070	1.087	22.87	1 dftpp
5.095	2373623	1905531	0.803	22.61	
5.892	3317783	3362080	1.013	31.63	
	10494107	9994766		100.000	

Total unknown % area = 77

Data File: \\NAHSTWS005\Target\chem\sv6.i\240418.b\01.d

Page 1



1 dftpp

ALS Laboratory Group

TARGET COMPOUNDS

Client Name:
Lab Smp Id: DFTPP
Sample Location:
Sample Date:
Sample Matrix: None
Analysis Type: SV
Data Type: MS DATA
Misc Info:

Client SDG: SDGa80227
Client Smp ID: DFTPP
Sample Point:
Date Received:
Quant Type: ESTD
Level:
Operator: smith

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
5074-71-5	dftpp	0.0	

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D

Date : 18-APR-2024 10:39

Client ID: DFTPP

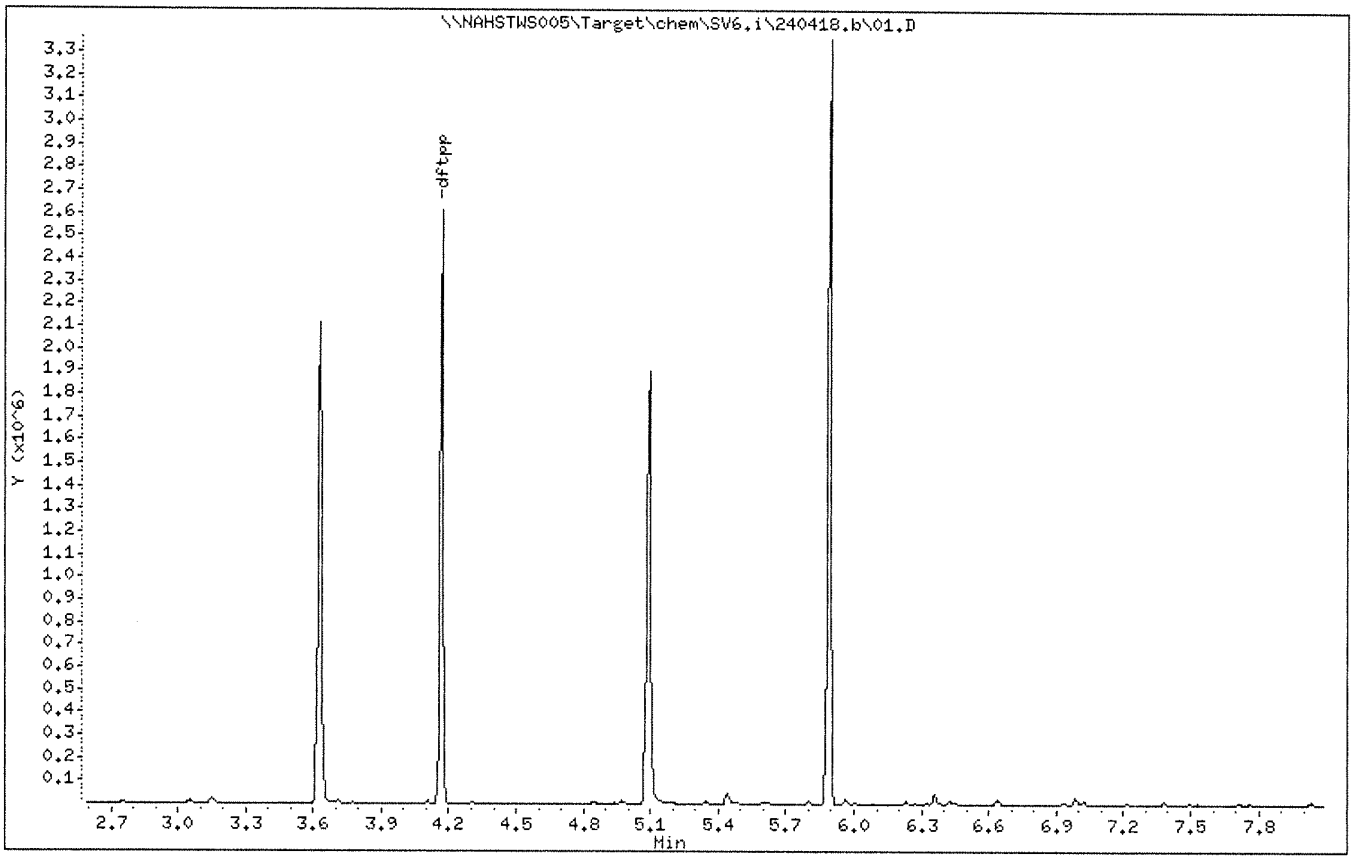
Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS

Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D

Date : 18-APR-2024 10:39

Client ID: DFTPP

Instrument: SV6.i

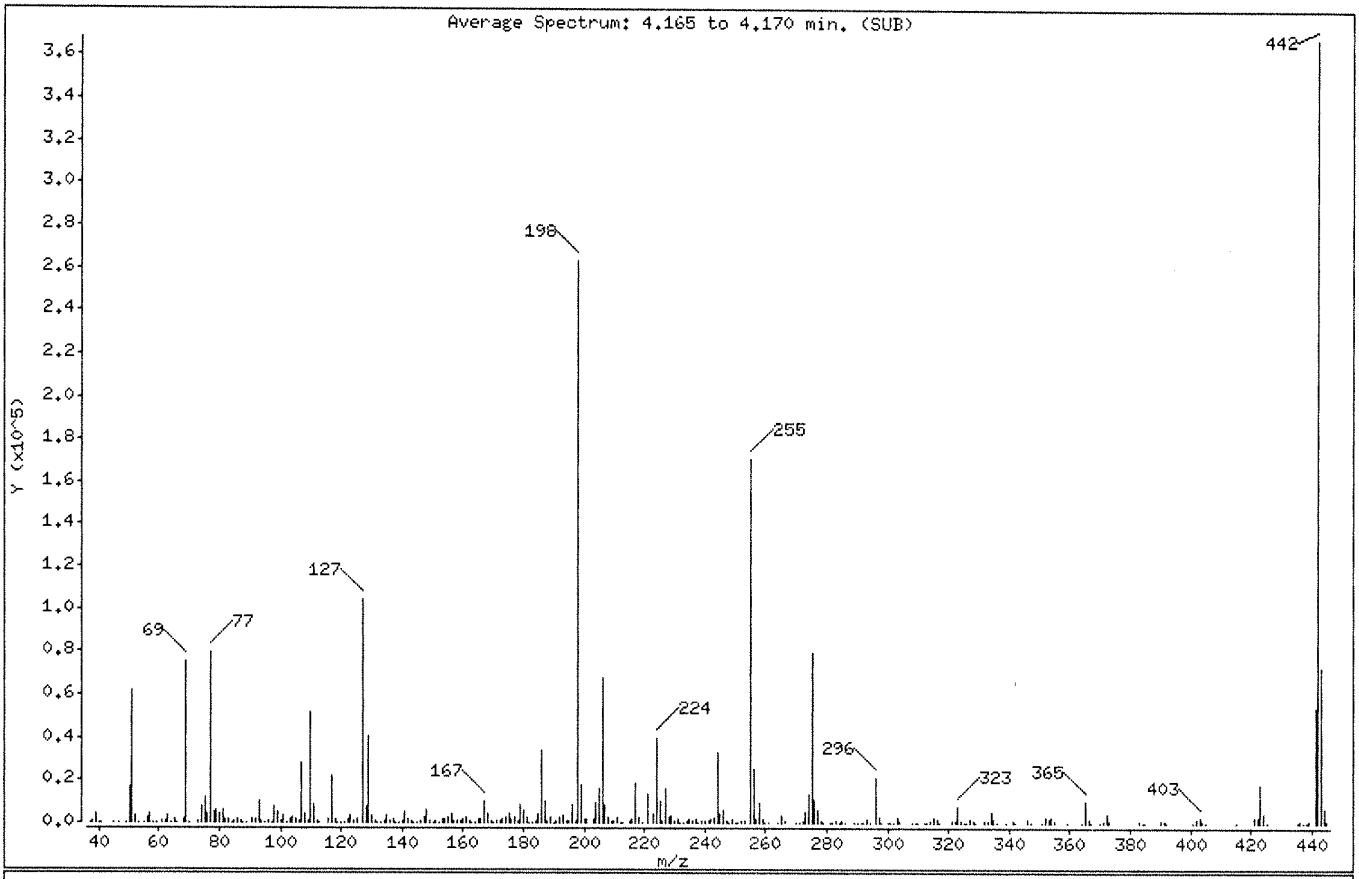
Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	23.62
68	Less than 2.00% of mass 69	0.51 (1.76)
69	Mass 69 relative abundance	28.76
70	Less than 2.00% of mass 69	0.16 (0.54)
127	10.00 - 80.00% of mass 198	39.72
197	Less than 2.00% of mass 198	0.38
199	5.00 - 9.00% of mass 198	6.71
275	10.00 - 60.00% of mass 198	30.38
365	1.00 - 100.00% of mass 198	3.97
441	Present, but less than mass 443	20.53
442	50.00 - 150.00% of mass 198	139.93
443	15.00 - 24.00% of mass 442	27.62 (19.74)

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D

Date : 18-APR-2024 10:39

Client ID: DFTPP

Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS

Column diameter: 0.25

Data File: 01.D

Spectrum: Average Spectrum: 4.165 to 4.170 min. (SUB)

Location of Maximum: 442.00

Number of points: 308

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	244	129.00	40624	208.00	2115	300.00	77
38.00	784	130.00	3575	209.00	787	301.00	225
39.00	4091	131.00	702	210.00	691	302.00	396
40.00	241	132.00	334	211.00	2619	303.00	2580
41.00	102	133.00	85	212.00	316	304.00	619
45.00	185	134.00	1114	213.00	196	308.00	261
47.00	77	135.00	3151	215.00	724	309.00	174
49.00	408	136.00	1211	216.00	1479	310.00	240
50.00	16528	137.00	1465	217.00	18280	312.00	105
51.00	62088	138.00	288	218.00	2273	313.00	118
52.00	3211	139.00	258	219.00	275	314.00	1045
53.00	86	140.00	581	221.00	13468	315.00	2330
55.00	354	141.00	5048	223.00	4413	316.00	1380
56.00	2225	142.00	1704	224.00	39488	317.00	214
57.00	4437	143.00	1145	225.00	9861	321.00	708
58.00	213	144.00	319	226.00	1237	322.00	502
59.00	93	145.00	259	227.00	15741	323.00	7637
61.00	820	146.00	847	228.00	2192	324.00	1248
62.00	996	147.00	2610	229.00	3406	325.00	83
63.00	2992	148.00	5531	230.00	654	326.00	213
64.00	404	149.00	1260	231.00	1395	327.00	1339
65.00	1489	150.00	306	232.00	263	328.00	739
66.00	77	151.00	689	233.00	369	329.00	197
68.00	1330	152.00	397	234.00	998	332.00	530
69.00	75608	153.00	1674	235.00	1288	333.00	729
70.00	408	154.00	1331	236.00	713	334.00	5116
73.00	520	155.00	2941	237.00	1314	335.00	1387
74.00	7472	156.00	4519	238.00	197	336.00	81
75.00	12234	157.00	943	239.00	654	339.00	89
76.00	4036	158.00	851	240.00	561	341.00	826
77.00	79680	159.00	842	241.00	1046	342.00	249
78.00	5168	160.00	1695	242.00	2012	346.00	1618
79.00	5702	161.00	2544	243.00	2294	347.00	364
80.00	4359	162.00	776	244.00	32624	351.00	166
81.00	6057	163.00	166	245.00	4479	352.00	2331

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D

Date : 18-APR-2024 10:39

Client ID: DFTPP

Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS

Column diameter: 0.25

Data File: 01.D
Spectrum: Average Spectrum: 4.165 to 4.170 min. (SUB)
Location of Maximum: 442.00
Number of points: 308

m/z	Y	m/z	Y	m/z	Y	m/z	Y
82.00	1737	164.00	285	246.00	5704	353.00	1469
83.00	1343	165.00	2024	247.00	1212	354.00	2530
84.00	162	166.00	1773	248.00	329	355.00	561
85.00	1154	167.00	10349	249.00	1270	359.00	260
86.00	1464	168.00	4423	250.00	278	364.00	112
87.00	753	169.00	868	251.00	337	365.00	10437
88.00	337	170.00	367	252.00	432	366.00	1414
89.00	75	171.00	514	253.00	740	367.00	75
91.00	1569	172.00	960	255.00	170688	370.00	233
92.00	1659	173.00	1497	256.00	25096	371.00	588
93.00	10069	174.00	2141	257.00	1983	372.00	4617
94.00	680	175.00	4519	258.00	8939	373.00	1106
95.00	92	176.00	1409	259.00	1582	383.00	1150
96.00	425	177.00	2174	260.00	250	384.00	378
97.00	199	178.00	726	261.00	243	385.00	83
98.00	7421	179.00	8742	264.00	295	390.00	634
99.00	5189	180.00	5928	265.00	3703	391.00	442
100.00	450	181.00	2765	266.00	604	392.00	339
101.00	3694	182.00	411	270.00	214	401.00	178
102.00	194	183.00	299	271.00	344	402.00	1827
103.00	1310	184.00	735	272.00	599	403.00	2559
104.00	2350	185.00	4557	273.00	5441	404.00	850
105.00	2071	186.00	34080	274.00	13783	405.00	78
106.00	852	187.00	9952	275.00	79880	415.00	111
107.00	28048	188.00	866	276.00	10609	421.00	2499
108.00	4375	189.00	2159	277.00	6056	422.00	2422
109.00	546	190.00	335	278.00	997	423.00	17496
110.00	51232	191.00	1054	279.00	109	424.00	3958
111.00	8170	192.00	2816	281.00	100	425.00	349
112.00	914	193.00	3142	282.00	278	435.00	169
113.00	342	194.00	666	283.00	828	436.00	426
116.00	1637	195.00	610	284.00	410	437.00	287
117.00	21584	196.00	8042	285.00	1021	438.00	177
118.00	1450	197.00	996	286.00	242	439.00	927
119.00	133	198.00	262912	289.00	253	441.00	53968

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D

Date : 18-APR-2024 10:39

Client ID: DFTPP

Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS

Column diameter: 0.25

Data File: 01.D
Spectrum: Average Spectrum: 4.165 to 4.170 min. (SUB)
Location of Maximum: 442.00
Number of points: 308

m/z	Y	m/z	Y	m/z	Y	m/z	Y
120.00	336	199.00	17632	290.00	222	442.00	367872
121.00	78	200.00	1329	291.00	150	443.00	72608
122.00	1884	201.00	1426	292.00	373	444.00	7175
123.00	3095	203.00	1983	293.00	1312	445.00	468
124.00	1181	204.00	9352	294.00	366		
125.00	1276	205.00	16075	296.00	20920		
127.00	104440	206.00	67752	297.00	2863		
128.00	7946	207.00	8670	298.00	101		

Data File : \\nahstws005\target\chem\sv6.i\240418.b\01.d
Inj Date : 18-APR-2024 10:39
InstruID : SV6.i
LabSampID : DFTPP

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 18-APR-2024 10:39
Operator : smith Inst ID: SV6.i
Smp Info : DFTPP;DFTPP;3;;DFTPP
Misc Info :
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DFTPP.m
Meth Date : 14-Mar-2023 15:58 Linh.Pham Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: NAHSTW7095

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
4.170	5.571	-1.401	198	262912			0.00- 100.00	71.46
4.170	6.357	-2.187	51	62088			10.00- 80.00	23.62
4.170	6.357	-2.187	68	1330			0.00- 2.00	1.76
4.170	6.357	-2.187	69	75608			0.00- 0.00	28.76
4.170	6.357	-2.187	70	408			0.00- 2.00	0.54
4.170	6.357	-2.187	127	104440			10.00- 80.00	39.72
4.170	6.357	-2.187	197	996			0.00- 2.00	0.38
4.170	6.357	-2.187	199	17632			5.00- 9.00	6.71
4.170	6.357	-2.187	275	79880			10.00- 60.00	30.38
4.170	6.357	-2.187	365	10437			1.00- 100.00	3.97
4.170	6.357	-2.187	441	53968			0.01- 99.99	74.32
4.170	6.357	-2.187	442	367904			50.00- 150.00	139.93
4.170	6.357	-2.187	443	72612			15.00- 24.00	19.74

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D

Date : 18-APR-2024 10:39

Client ID: DFTPP

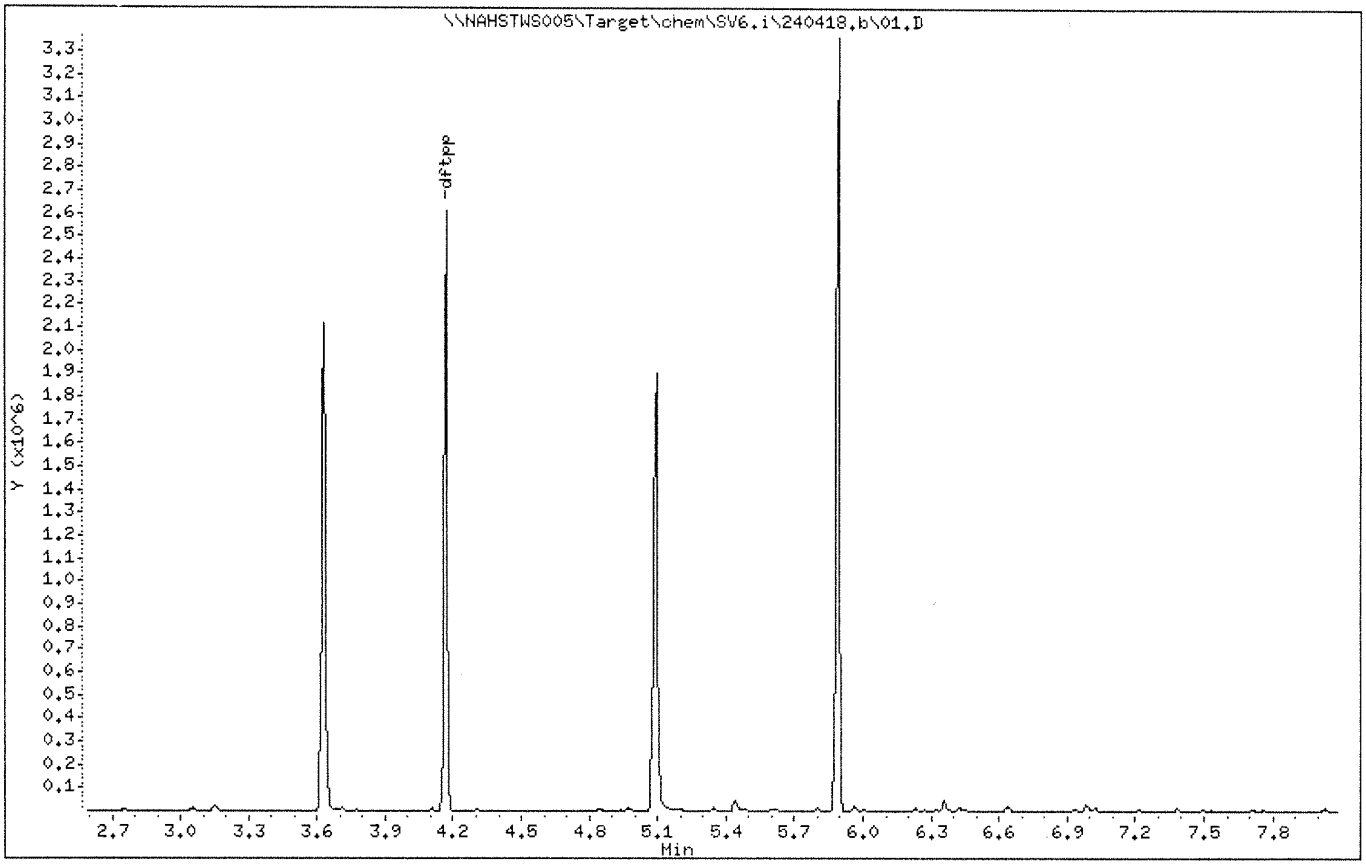
Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS

Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D

Date : 18-APR-2024 10:39

Client ID: DFTPP

Instrument: SV6.i

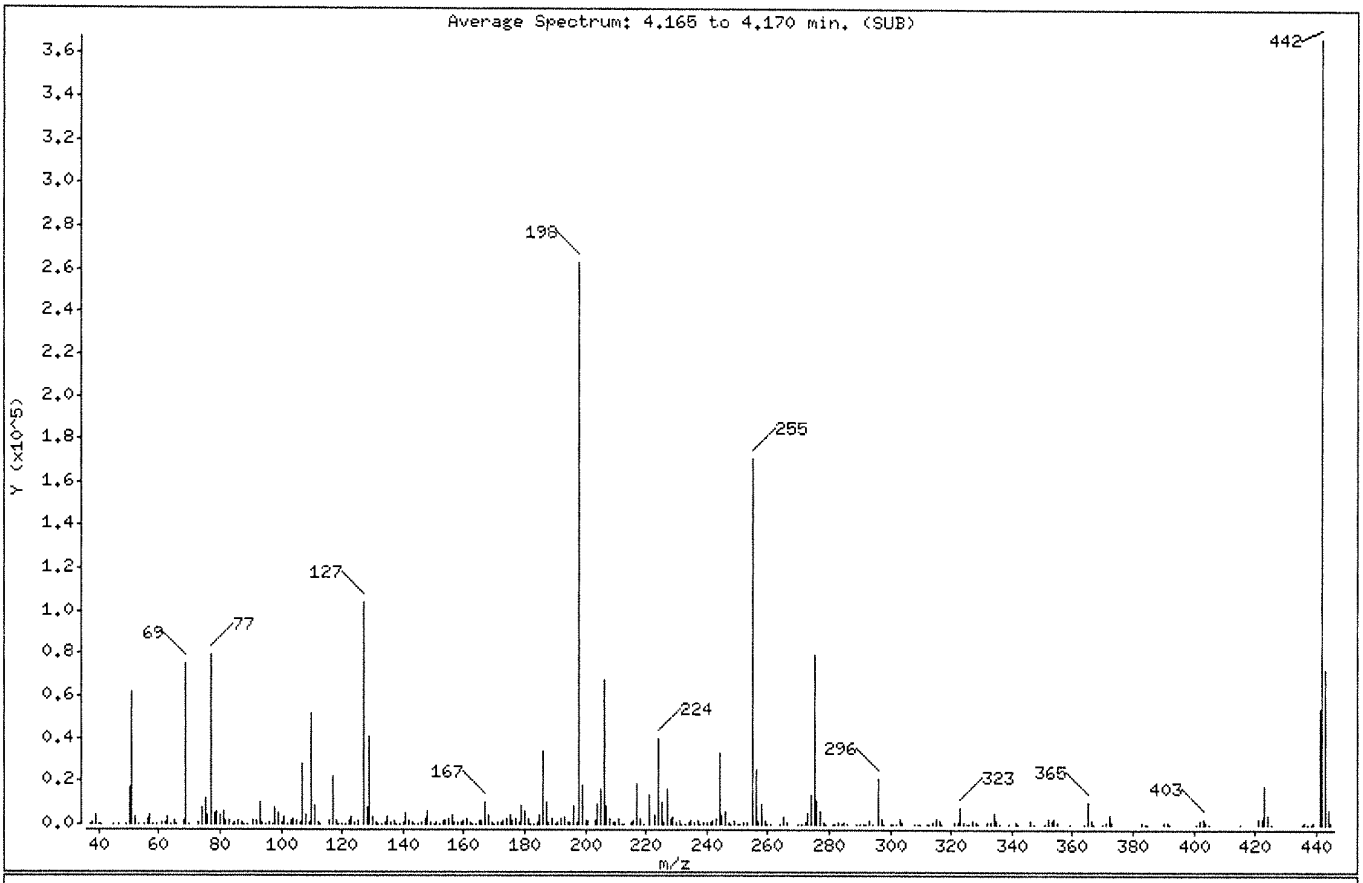
Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	23.62
68	Less than 2.00% of mass 69	0.51 (1.76)
69	Mass 69 relative abundance	28.76
70	Less than 2.00% of mass 69	0.16 (0.54)
127	10.00 - 80.00% of mass 198	39.72
197	Less than 2.00% of mass 198	0.38
199	5.00 - 9.00% of mass 198	6.71
275	10.00 - 60.00% of mass 198	30.38
365	1.00 - 100.00% of mass 198	3.97
441	Present, but less than mass 443	20.53
442	50.00 - 150.00% of mass 198	139.93
443	15.00 - 24.00% of mass 442	27.62 (19.74)

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D

Date : 18-APR-2024 10:39

Client ID: DFTPP

Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS

Column diameter: 0.25

Data File: 01.D
Spectrum: Average Spectrum: 4.165 to 4.170 min. (SUB)
Location of Maximum: 442.00
Number of points: 308

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	244	129.00	40624	208.00	2115	300.00	77
38.00	784	130.00	3575	209.00	787	301.00	225
39.00	4091	131.00	702	210.00	691	302.00	396
40.00	241	132.00	334	211.00	2619	303.00	2580
41.00	102	133.00	85	212.00	316	304.00	619
45.00	185	134.00	1114	213.00	196	308.00	261
47.00	77	135.00	3151	215.00	724	309.00	174
49.00	408	136.00	1211	216.00	1479	310.00	240
50.00	16528	137.00	1465	217.00	18280	312.00	105
51.00	62088	138.00	288	218.00	2273	313.00	118
52.00	3211	139.00	258	219.00	275	314.00	1045
53.00	86	140.00	581	221.00	13468	315.00	2330
55.00	354	141.00	5048	223.00	4413	316.00	1380
56.00	2225	142.00	1704	224.00	39488	317.00	214
57.00	4437	143.00	1145	225.00	9861	321.00	708
58.00	213	144.00	319	226.00	1237	322.00	502
59.00	93	145.00	259	227.00	15741	323.00	7637
61.00	820	146.00	847	228.00	2192	324.00	1248
62.00	996	147.00	2610	229.00	3406	325.00	83
63.00	2992	148.00	5531	230.00	654	326.00	213
64.00	404	149.00	1260	231.00	1395	327.00	1339
65.00	1489	150.00	306	232.00	263	328.00	739
66.00	77	151.00	689	233.00	369	329.00	197
68.00	1330	152.00	397	234.00	998	332.00	530
69.00	75608	153.00	1674	235.00	1288	333.00	729
70.00	408	154.00	1331	236.00	713	334.00	5116
73.00	520	155.00	2941	237.00	1314	335.00	1387
74.00	7472	156.00	4519	238.00	197	336.00	81
75.00	12234	157.00	943	239.00	654	339.00	89
76.00	4036	158.00	851	240.00	561	341.00	826
77.00	79680	159.00	842	241.00	1046	342.00	249
78.00	5168	160.00	1695	242.00	2012	346.00	1618
79.00	5702	161.00	2544	243.00	2294	347.00	364
80.00	4359	162.00	776	244.00	32624	351.00	166
81.00	6057	163.00	166	245.00	4479	352.00	2331

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D

Date : 18-APR-2024 10:39

Client ID: DFTPP

Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS

Column diameter: 0.25

Data File: 01.D
Spectrum: Average Spectrum: 4.165 to 4.170 min. (SUB)
Location of Maximum: 442.00
Number of points: 308

m/z	Y	m/z	Y	m/z	Y	m/z	Y
82.00	1737	164.00	285	246.00	5704	353.00	1469
83.00	1343	165.00	2024	247.00	1212	354.00	2530
84.00	162	166.00	1773	248.00	329	355.00	561
85.00	1154	167.00	10349	249.00	1270	359.00	260
86.00	1464	168.00	4423	250.00	278	364.00	112
87.00	753	169.00	868	251.00	337	365.00	10437
88.00	337	170.00	367	252.00	432	366.00	1414
89.00	75	171.00	514	253.00	740	367.00	75
91.00	1569	172.00	960	255.00	170688	370.00	233
92.00	1659	173.00	1497	256.00	25096	371.00	588
93.00	10069	174.00	2141	257.00	1983	372.00	4617
94.00	680	175.00	4519	258.00	8939	373.00	1106
95.00	92	176.00	1409	259.00	1582	383.00	1150
96.00	425	177.00	2174	260.00	250	384.00	378
97.00	199	178.00	726	261.00	243	385.00	83
98.00	7421	179.00	8742	264.00	295	390.00	634
99.00	5189	180.00	5928	265.00	3703	391.00	442
100.00	450	181.00	2765	266.00	604	392.00	339
101.00	3694	182.00	411	270.00	214	401.00	178
102.00	194	183.00	299	271.00	344	402.00	1827
103.00	1310	184.00	735	272.00	599	403.00	2559
104.00	2350	185.00	4557	273.00	5441	404.00	850
105.00	2071	186.00	34080	274.00	13783	405.00	78
106.00	852	187.00	9952	275.00	79880	415.00	111
107.00	28048	188.00	866	276.00	10609	421.00	2499
108.00	4375	189.00	2159	277.00	6056	422.00	2422
109.00	546	190.00	335	278.00	997	423.00	17496
110.00	51232	191.00	1054	279.00	109	424.00	3958
111.00	8170	192.00	2816	281.00	100	425.00	349
112.00	914	193.00	3142	282.00	278	435.00	169
113.00	342	194.00	666	283.00	828	436.00	426
116.00	1637	195.00	610	284.00	410	437.00	287
117.00	21584	196.00	8042	285.00	1021	438.00	177
118.00	1450	197.00	996	286.00	242	439.00	927
119.00	133	198.00	262912	289.00	253	441.00	53968

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D

Date : 18-APR-2024 10:39

Client ID: DFTPP

Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS

Column diameter: 0.25

Data File: 01.D
Spectrum: Average Spectrum: 4.165 to 4.170 min. (SUB)
Location of Maximum: 442.00
Number of points: 308

m/z	Y	m/z	Y	m/z	Y	m/z	Y
120.00	336	199.00	17632	290.00	222	442.00	367872
121.00	78	200.00	1329	291.00	150	443.00	72608
122.00	1884	201.00	1426	292.00	373	444.00	7175
123.00	3095	203.00	1983	293.00	1312	445.00	468
124.00	1181	204.00	9352	294.00	366		
125.00	1276	205.00	16075	296.00	20920		
127.00	104440	206.00	67752	297.00	2863		
128.00	7946	207.00	8670	298.00	101		

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Lab Smp Id: 14DX-0.08 Client Smp ID: 14DX-0.08
Inj Date : 18-APR-2024 12:24
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 12:24 Cal File: 03A.D
Als bottle: 3 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

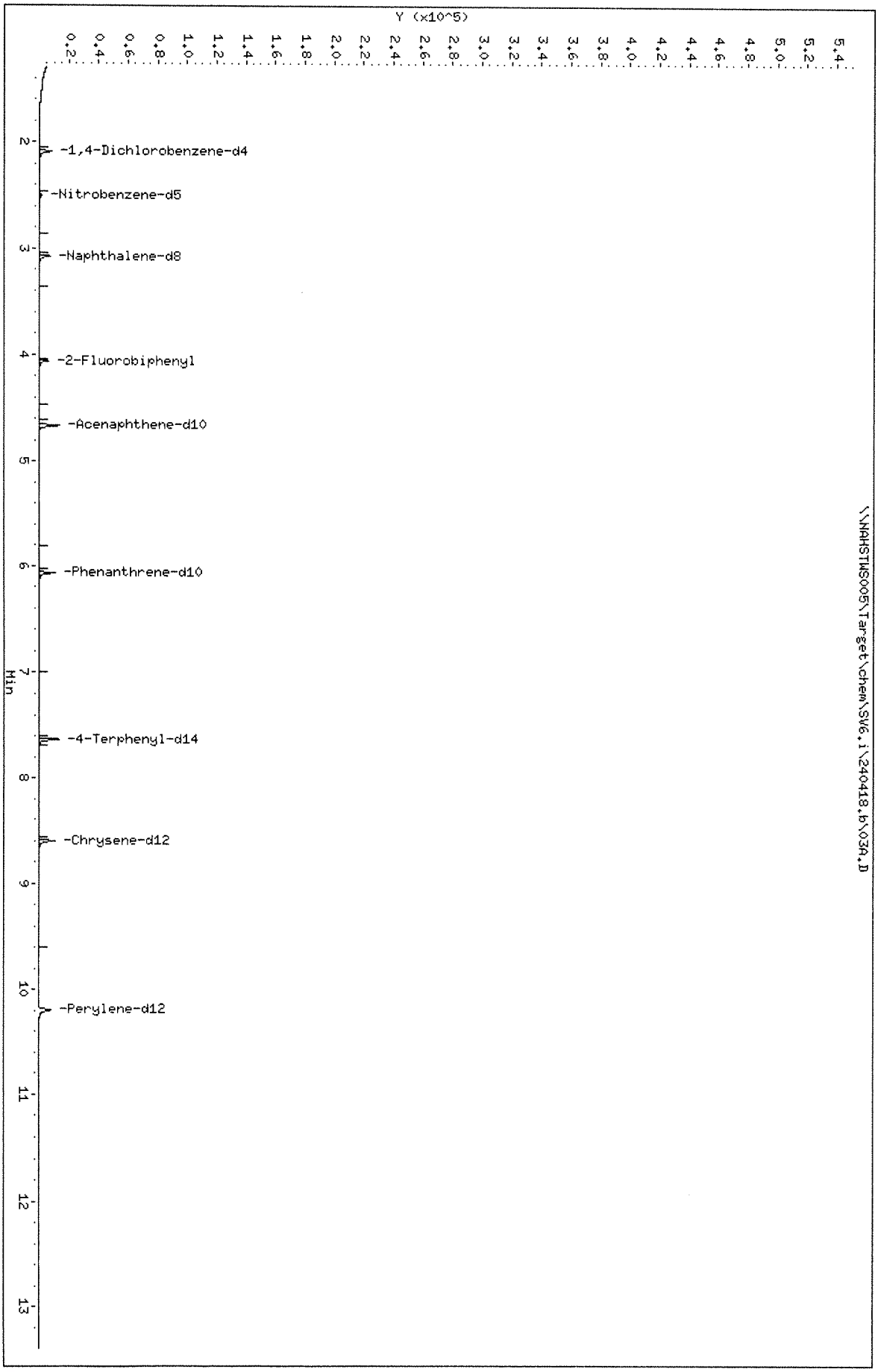
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)	
* 20 1,4-Dichlorobenzene-d4	152	2.089	2.089	(1.000)	3251	0.10000		(aQM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	10577	0.10000		(M)
$ 33 Nitrobenzene-d5	82	2.497	2.502	(0.812)	2161	0.08000	0.06806	(M)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	6678	0.10000		(M)
$ 69 2-Fluorobiphenyl	172	4.064	4.067	(0.871)	6691	0.08000	0.06554	(M)
* 126 Phenanthrene-d10	188	6.066	6.065	(1.000)	13232	0.10000		(M)
* 182 Chrysene-d12	240	8.604	8.599	(1.000)	12125	0.10000		(M)
$ 158 4-Terphenyl-d14	244	7.636	7.630	(0.887)	14251	0.08000	0.05769	(M)
* 198 Perylene-d12	264	10.195	10.189	(1.000)	11098	0.10000		(M)
1 1,4-Dioxane	58	0.834	0.820	(0.400)	503	0.08000	0.07223	(QM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Date : 18-APR-2024 12:24
Client ID: 14DX-0.08
Sample Info: 14DX-0.08
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV6.i
Operator: LG
Column diameter: 0.28

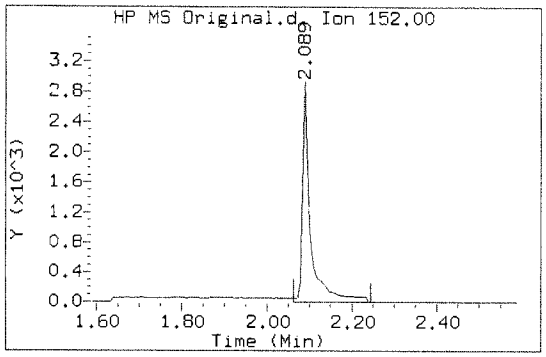


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

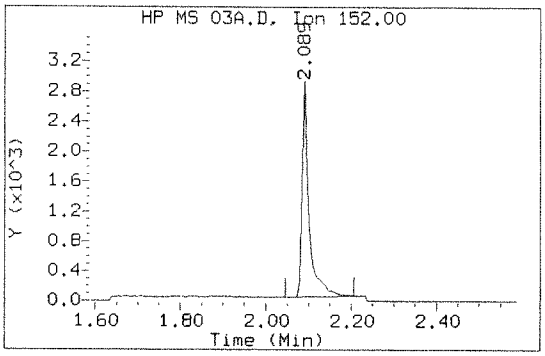
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

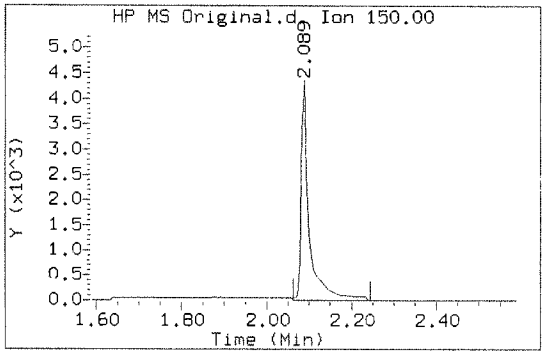
BEFORE
MASS
152
AREA
3915
HEIGHT
2934
18-Apr-2024
12:42
ALSHS
Server



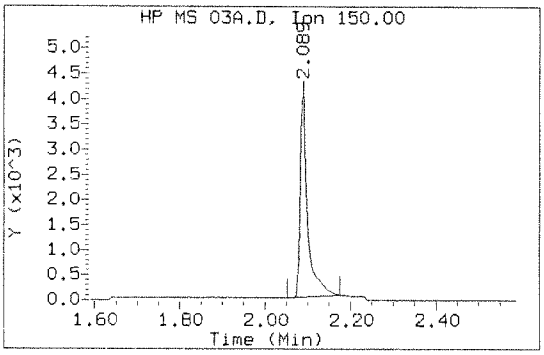
AFTER
MASS
152
AREA
3251
HEIGHT
2876
28-May-2024
13:05



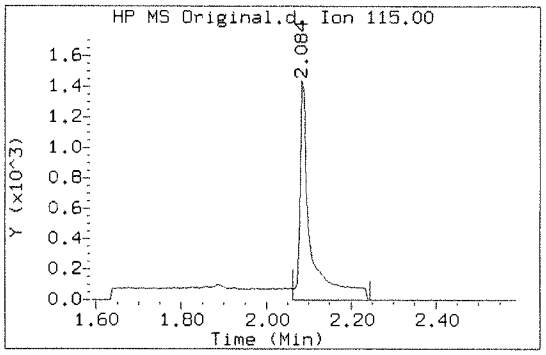
BEFORE
MASS
150
AREA
5788
HEIGHT
4359
18-Apr-2024
12:42
ALSHS
Server



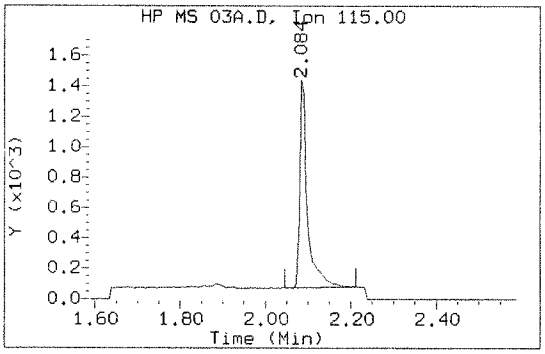
AFTER
MASS
150
AREA
4924
HEIGHT
4290
28-May-2024
13:05



BEFORE
MASS
115
AREA
2519
HEIGHT
1442
18-Apr-2024
12:42
ALSHS
Server



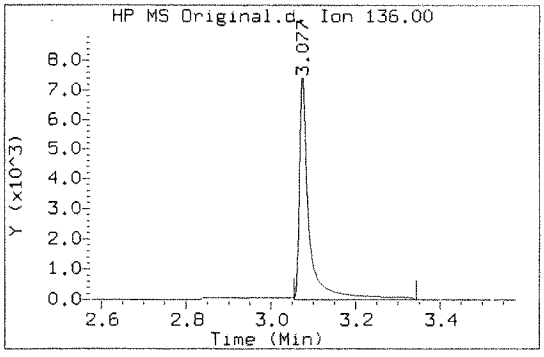
AFTER
MASS
115
AREA
1685
HEIGHT
1365
28-May-2024
13:05



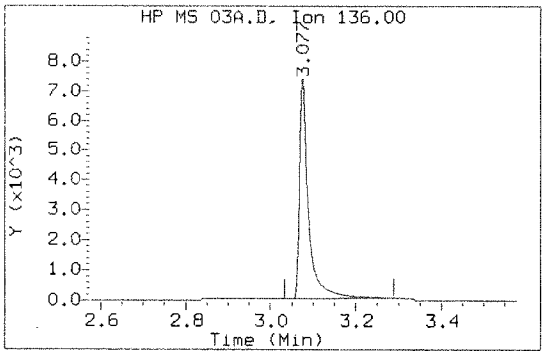
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
11842
HEIGHT
7402
18-Apr-2024
12:42
ALSHS
Server



AFTER
MASS
136
AREA
10577
HEIGHT
7340
28-May-2024
13:05

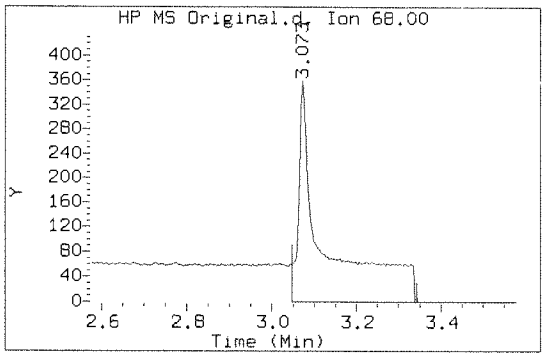


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

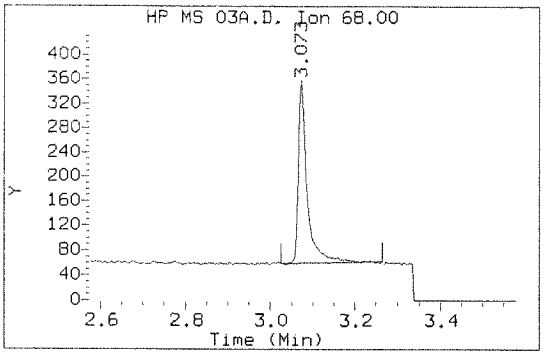
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
68
AREA
1473
HEIGHT
359
18-Apr-2024
12:42
ALSHS
Server



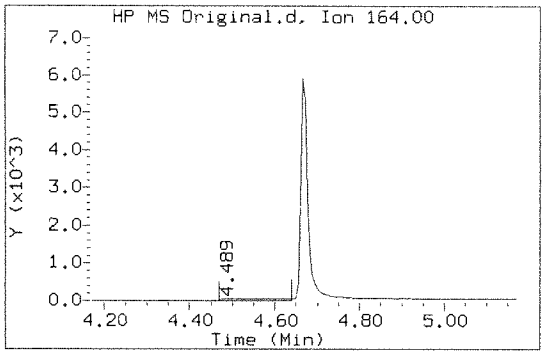
AFTER
MASS
68
AREA
417
HEIGHT
299
28-May-2024
13:05



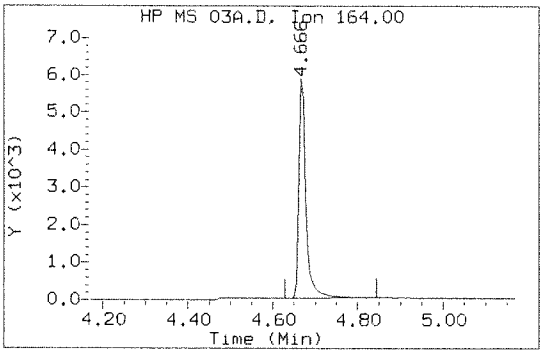
Acenaphthene-d10 (15067-26-2)

Reason Code:

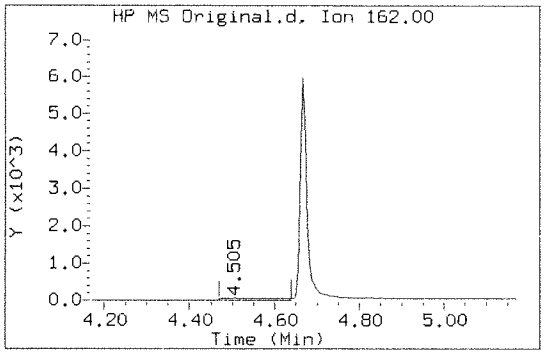
BEFORE
MASS
164
AREA
527
HEIGHT
53
18-Apr-2024
12:42
ALSHS
Server



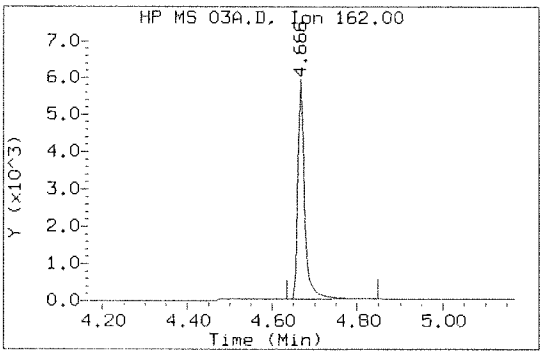
AFTER
MASS
164
AREA
6678
HEIGHT
5851
28-May-2024
13:05



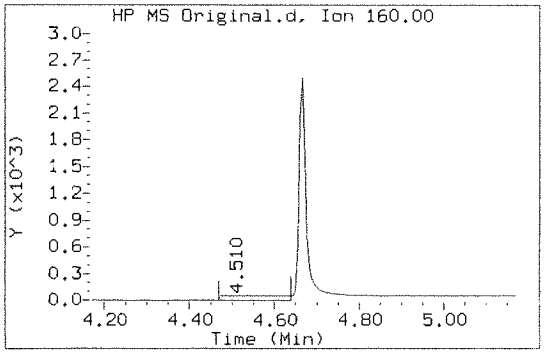
BEFORE
MASS
162
AREA
540
HEIGHT
61
18-Apr-2024
12:42
ALSHS
Server



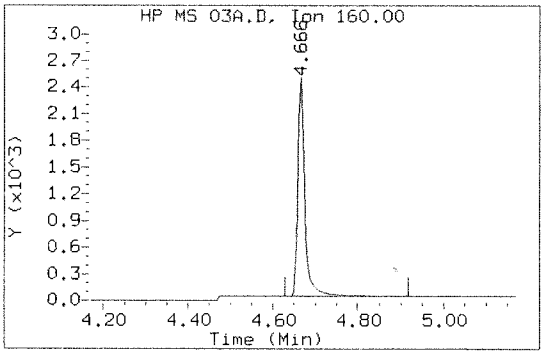
AFTER
MASS
162
AREA
6371
HEIGHT
5906
28-May-2024
13:05



BEFORE
MASS
160
AREA
507
HEIGHT
51
18-Apr-2024
12:42
ALSHS
Server



AFTER
MASS
160
AREA
2763
HEIGHT
2449
28-May-2024
13:05

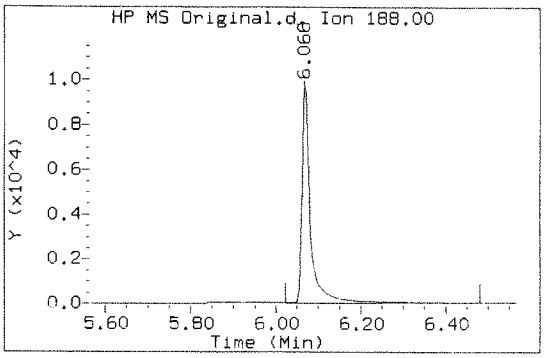


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

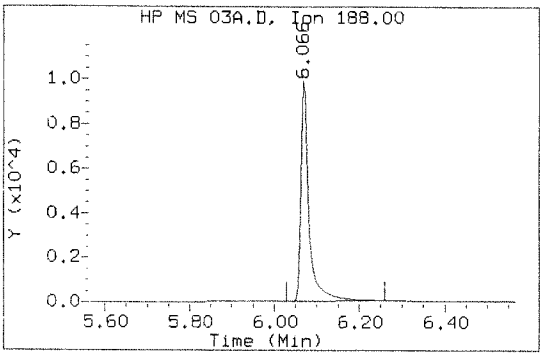
Phenanthrene-d10 (1517-22-2)

Reason Code:

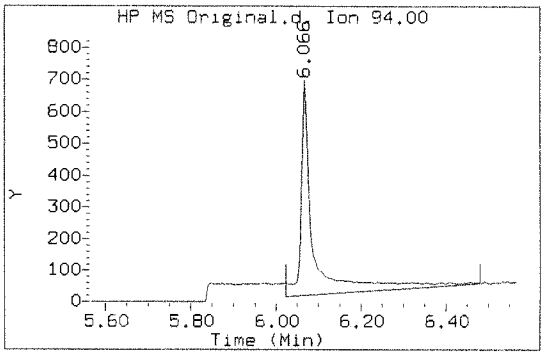
BEFORE
MASS
188
AREA
14212
HEIGHT
9923
18-Apr-2024
12:42
ALSHS
Server



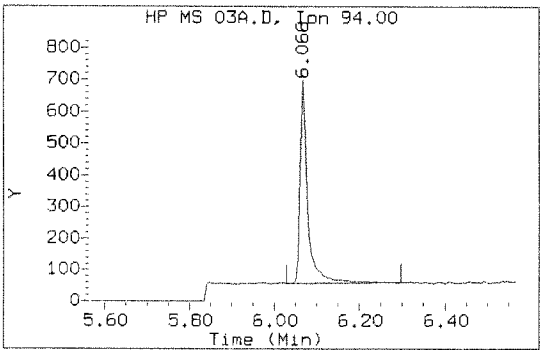
AFTER
MASS
188
AREA
13232
HEIGHT
9886
28-May-2024
13:05



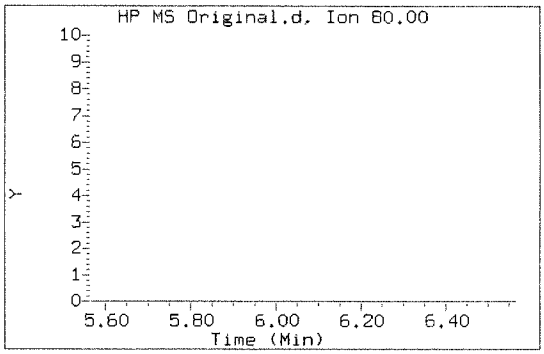
BEFORE
MASS
94
AREA
1408
HEIGHT
677
18-Apr-2024
12:42
ALSHS
Server



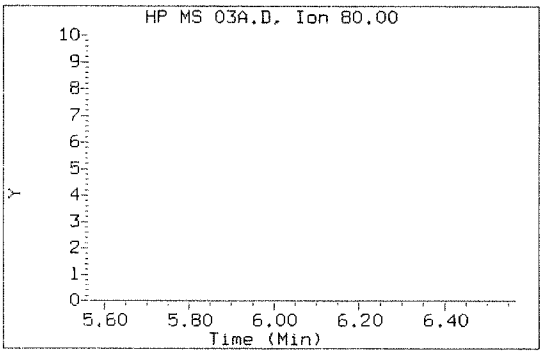
AFTER
MASS
94
AREA
802
HEIGHT
640
28-May-2024
13:05



BEFORE
MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
12:42
ALSHS
Server



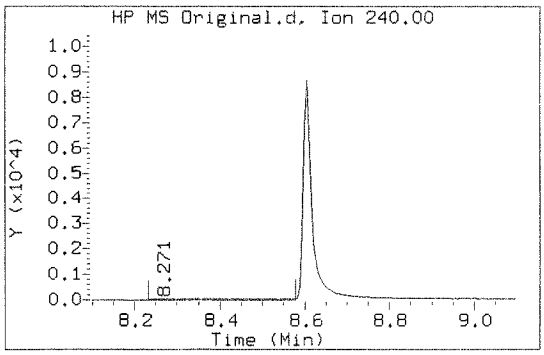
AFTER
MASS
80
AREA
0
HEIGHT
0
28-May-2024
13:05



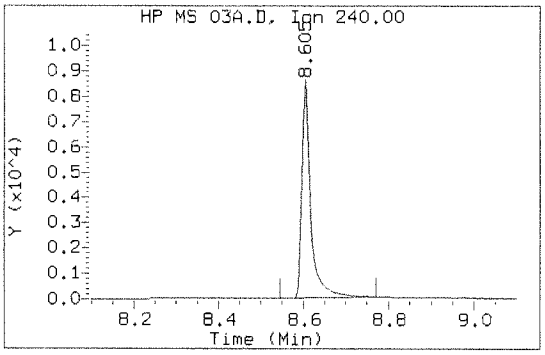
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
1046
HEIGHT
58
18-Apr-2024
12:42
ALSHS
Server



AFTER
MASS
240
AREA
12125
HEIGHT
8606
28-May-2024
13:05

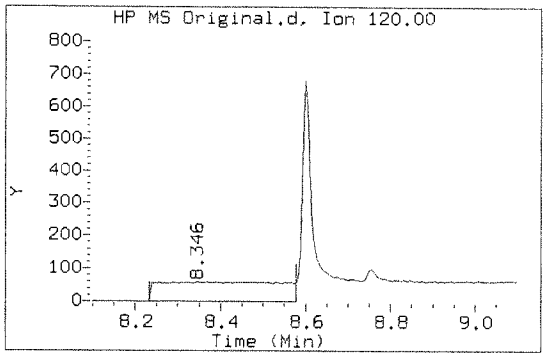


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

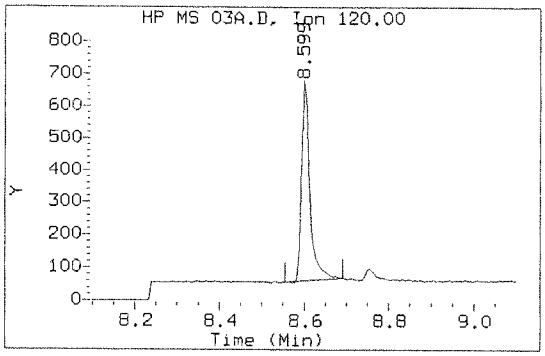
Chrysene-d12 (1719-03-5)

Reason Code:

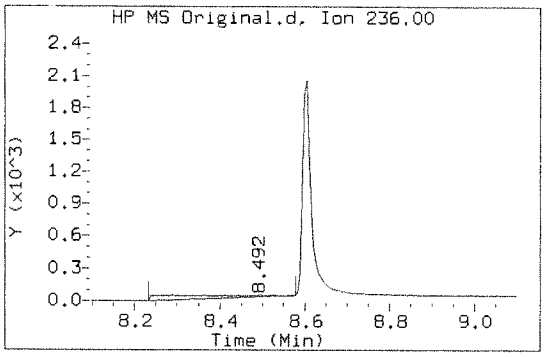
BEFORE
MASS
120
AREA
1175
HEIGHT
59
18-Apr-2024
12:42
ALSHS
Server



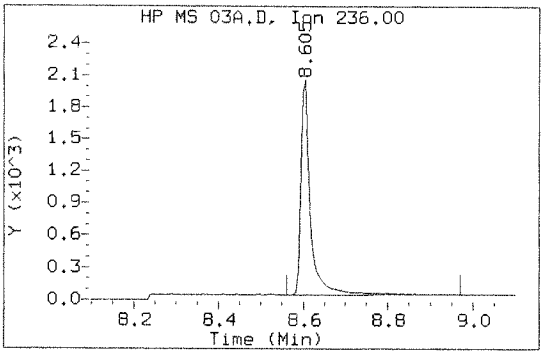
AFTER
MASS
120
AREA
821
HEIGHT
619
28-May-2024
13:05



BEFORE
MASS
236
AREA
485
HEIGHT
13
18-Apr-2024
12:42
ALSHS
Server



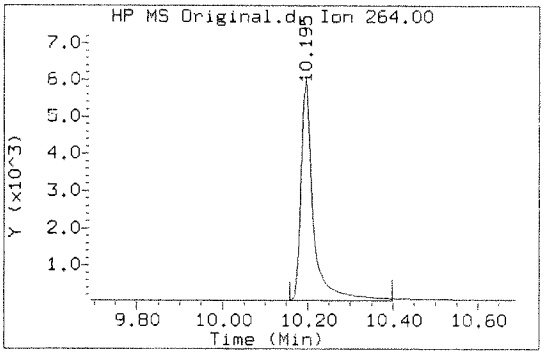
AFTER
MASS
236
AREA
3066
HEIGHT
2012
28-May-2024
13:05



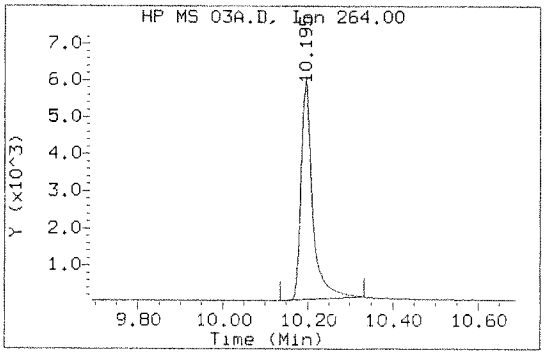
Perylene-d12 (1520-96-3)

Reason Code:

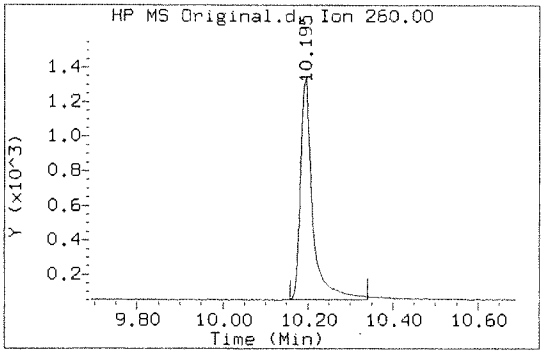
BEFORE
MASS
264
AREA
11914
HEIGHT
5992
18-Apr-2024
12:42
ALSHS
Server



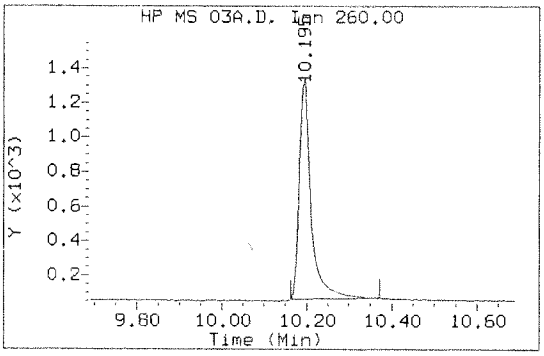
AFTER
MASS
264
AREA
11098
HEIGHT
5966
28-May-2024
13:05



BEFORE
MASS
260
AREA
2543
HEIGHT
1286
18-Apr-2024
12:42
ALSHS
Server



AFTER
MASS
260
AREA
2442
HEIGHT
1278
28-May-2024
13:05

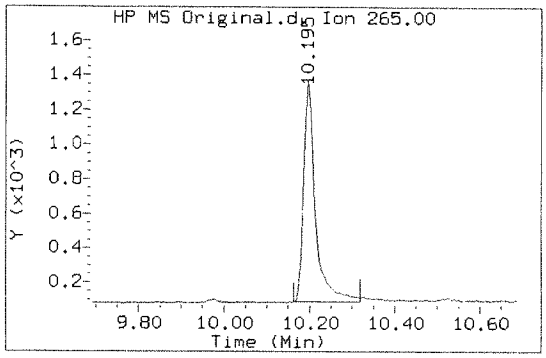


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

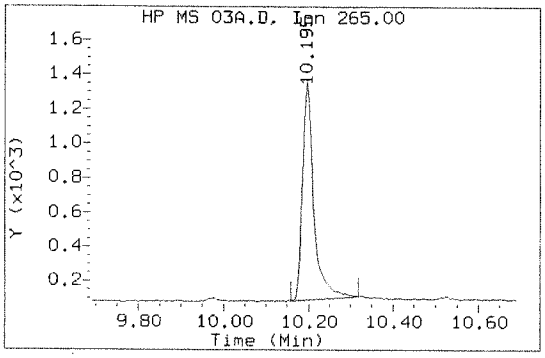
Perylene-d12 (1520-96-3)

Reason Code:

BEFORE
MASS
265
AREA
2459
HEIGHT
1281
18-Apr-2024
12:42
ALSHS
Server



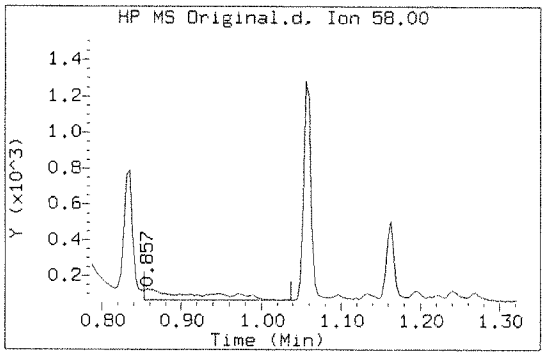
AFTER
MASS
265
AREA
2359
HEIGHT
1277
28-May-2024
13:05



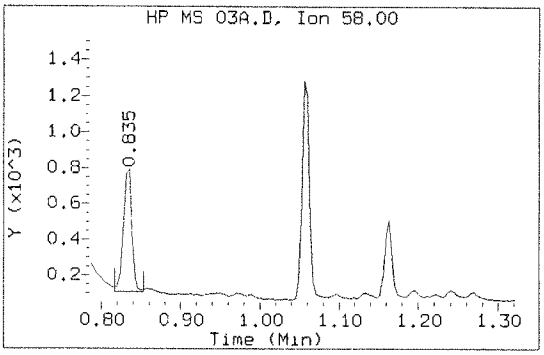
1,4-Dioxane ()

Reason Code:

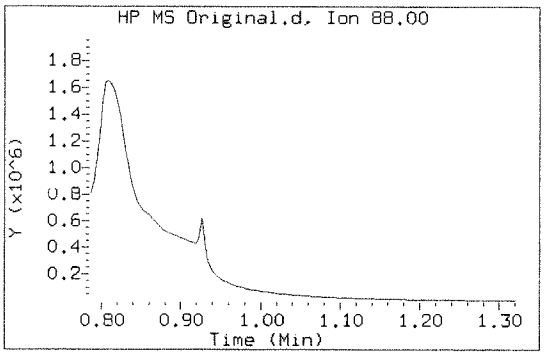
BEFORE
MASS
58
AREA
288
HEIGHT
59
18-Apr-2024
12:42
ALSHS
Server



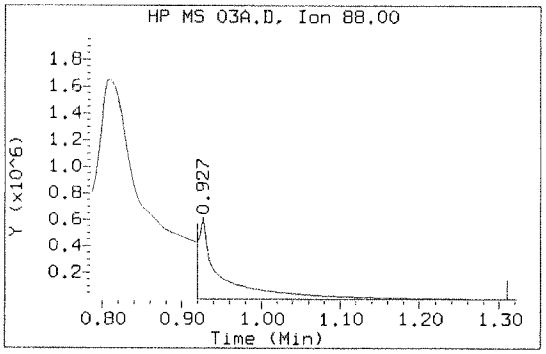
AFTER
MASS
58
AREA
503
HEIGHT
686
28-May-2024
13:05



BEFORE
MASS
88
AREA
1284716
HEIGHT
617517
18-Apr-2024
12:42
ALSHS
Server



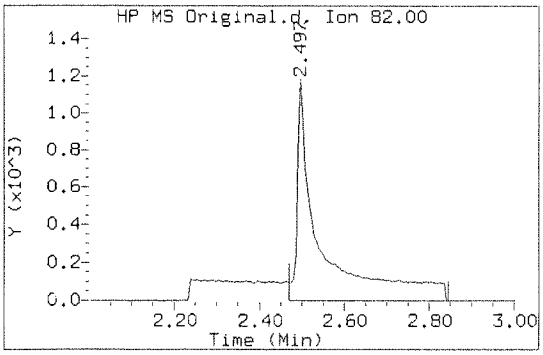
AFTER
MASS
88
AREA
1274387
HEIGHT
617067
28-May-2024
13:05



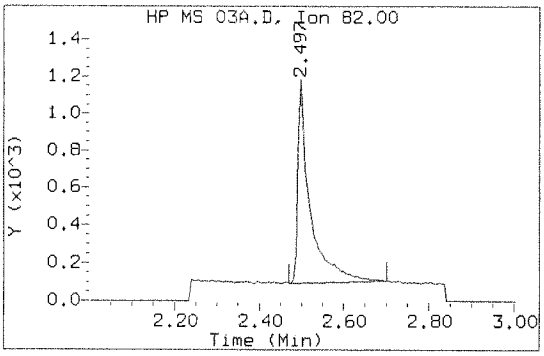
Nitrobenzene-d5 (4165-60-0)

Reason Code:

BEFORE
MASS
82
AREA
4330
HEIGHT
1185
18-Apr-2024
12:42
ALSHS
Server



AFTER
MASS
82
AREA
2161
HEIGHT
1090
28-May-2024
13:05

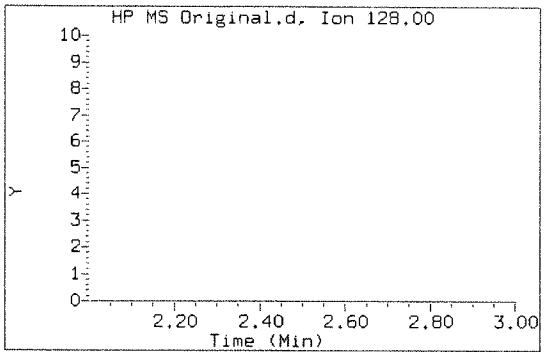


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

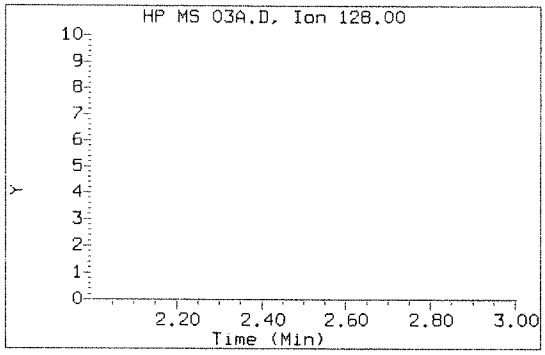
Nitrobenzene-d5 (4165-60-0)

Reason Code:

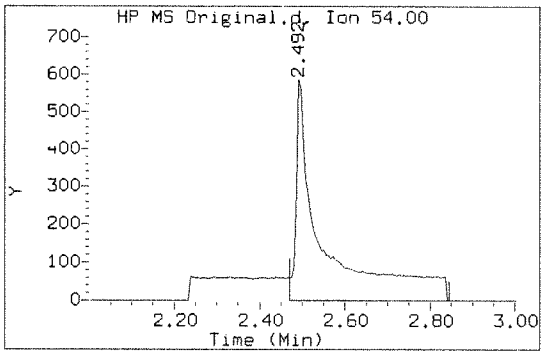
BEFORE
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
12:42
ALSHS
Server



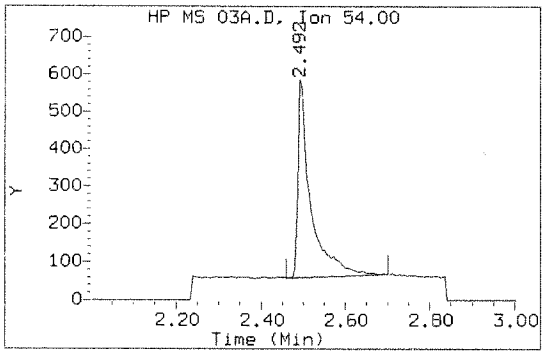
AFTER
MASS
128
AREA
0
HEIGHT
0
28-May-2024
13:05



BEFORE
MASS
54
AREA
2489
HEIGHT
586
18-Apr-2024
12:42
ALSHS
Server



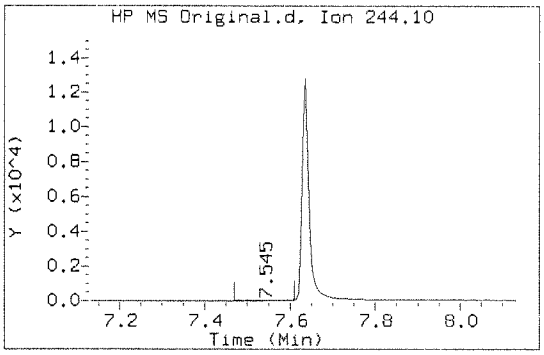
AFTER
MASS
54
AREA
1100
HEIGHT
526
28-May-2024
13:05



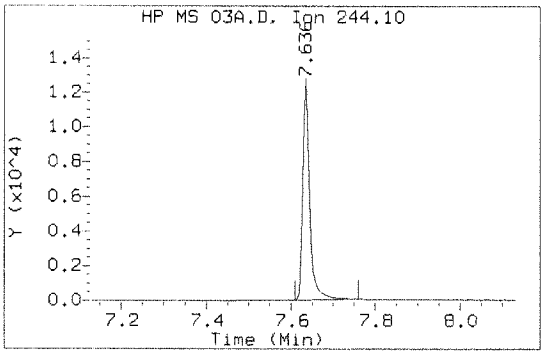
4-Terphenyl-d14 (1718-51-0)

Reason Code:

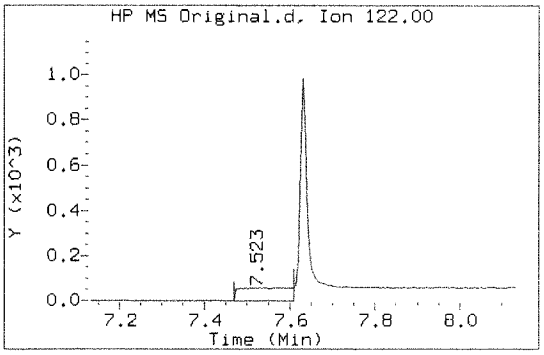
BEFORE
MASS
244.1
AREA
193
HEIGHT
23
18-Apr-2024
12:42
ALSHS
Server



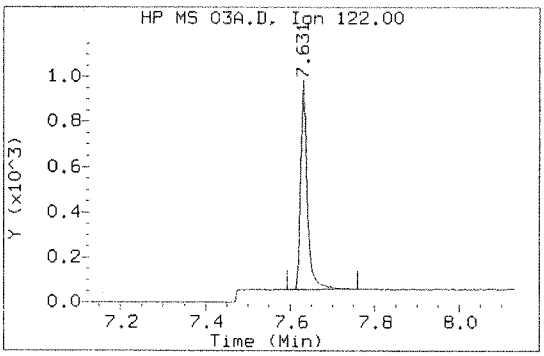
AFTER
MASS
244.1
AREA
14251
HEIGHT
12746
28-May-2024
13:05



BEFORE
MASS
122
AREA
473
HEIGHT
58
18-Apr-2024
12:42
ALSHS
Server



AFTER
MASS
122
AREA
1008
HEIGHT
928
28-May-2024
13:05



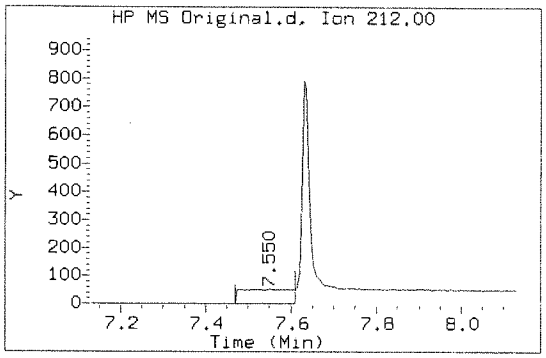
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

4-Terphenyl-d14 (1718-51-0)

Reason Code:

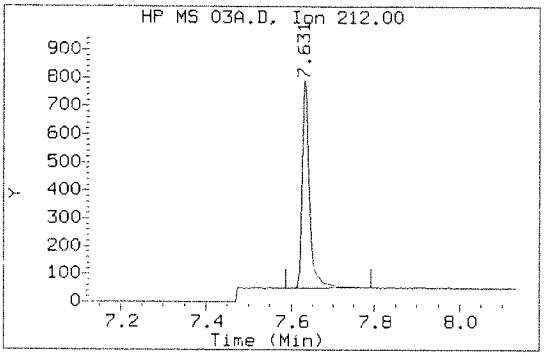
BEFORE

MASS
212
AREA
422
HEIGHT
53
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
212
AREA
890
HEIGHT
741
28-May-2024
13:05

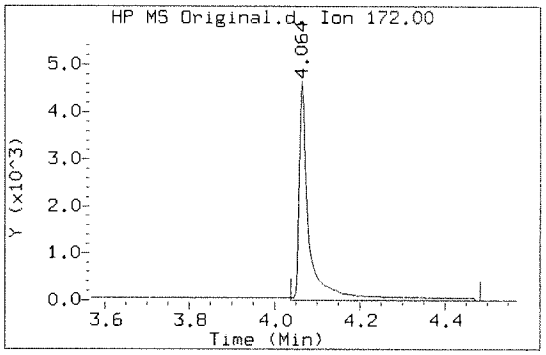


2-Fluorobiphenyl (321-60-8)

Reason Code:

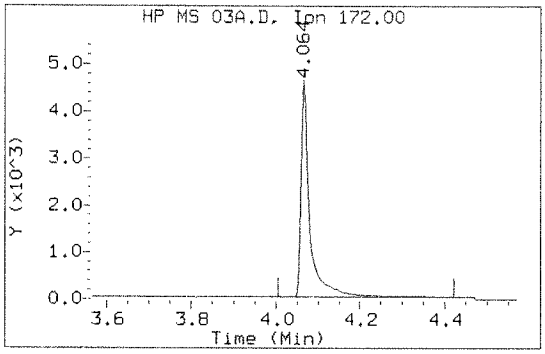
BEFORE

MASS
172
AREA
8151
HEIGHT
4659
18-Apr-2024
12:42
ALSHS
Server



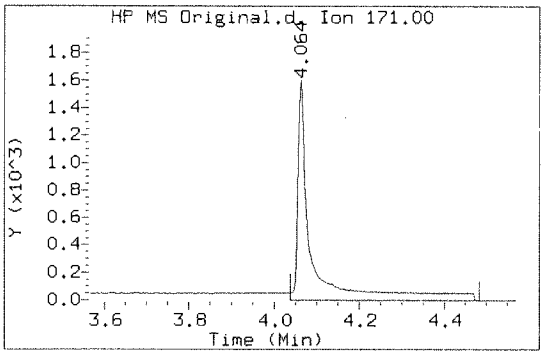
AFTER

MASS
172
AREA
6691
HEIGHT
4608
28-May-2024
13:05



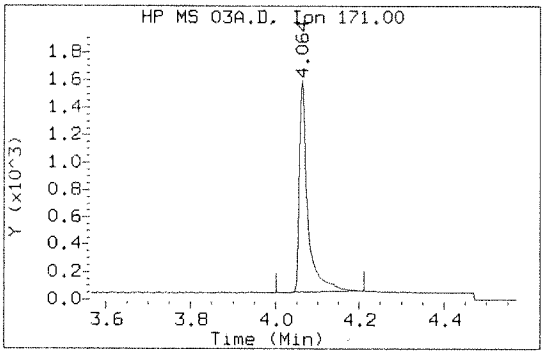
BEFORE

MASS
171
AREA
3618
HEIGHT
1599
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
171
AREA
2124
HEIGHT
1543
28-May-2024
13:05



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Lab Smp Id: 14DX-0.01
Inj Date : 18-APR-2024 12:49
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.01
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 12:49 Cal File: 04.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

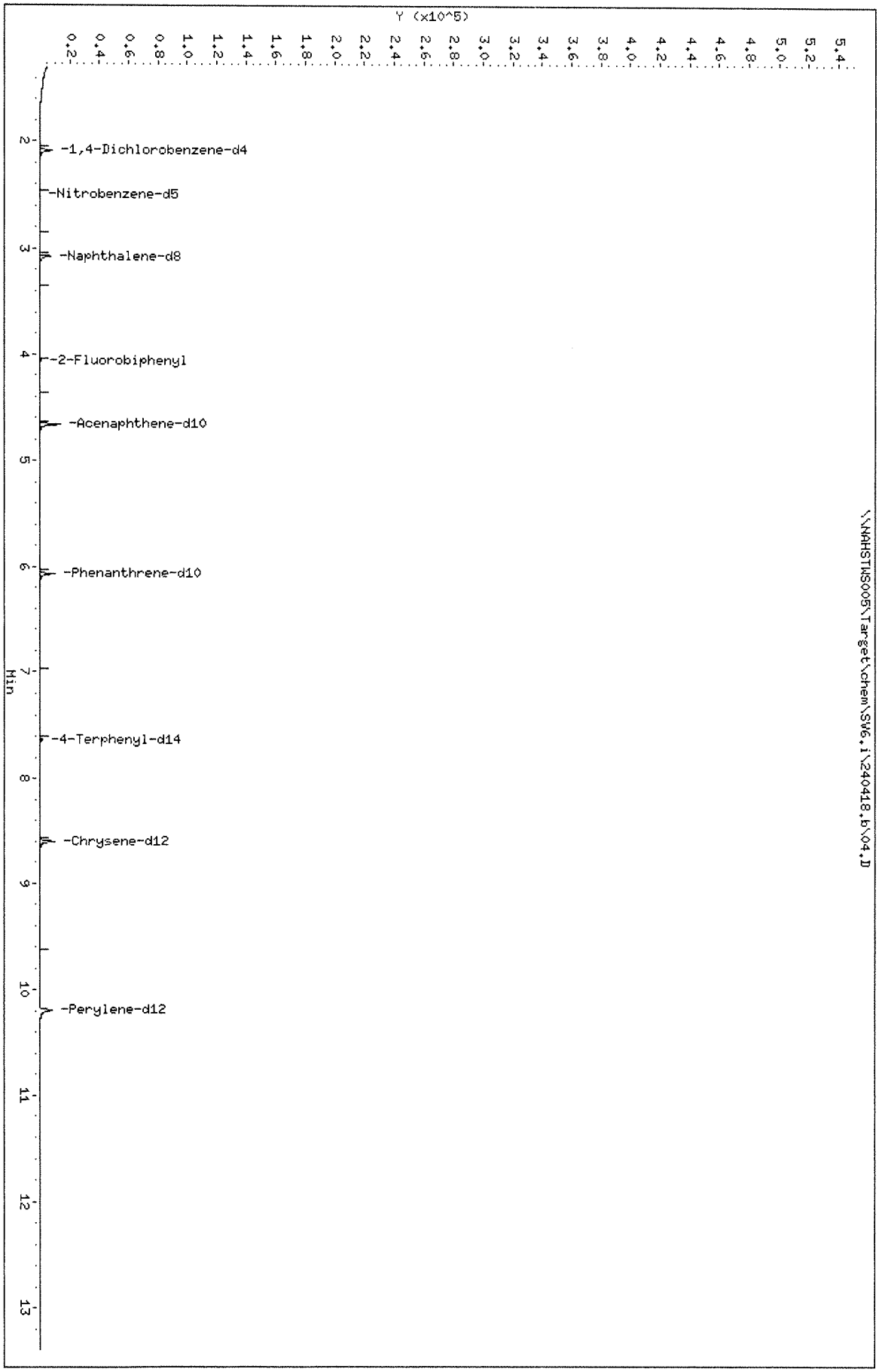
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)	
* 20 1,4-Dichlorobenzene-d4	152	2.089	2.089	(1.000)	3248	0.10000		(aM)
* 45 Naphthalene-d8	136	3.073	3.076	(1.000)	10308	0.10000		(M)
$ 33 Nitrobenzene-d5	82	2.497	2.502	(0.813)	262	0.01000	0.008466	(M)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	6420	0.10000		(M)
$ 69 2-Fluorobiphenyl	172	4.064	4.067	(0.871)	1018	0.01000	0.01037	(M)
* 126 Phenanthrene-d10	188	6.066	6.065	(1.000)	12867	0.10000		(M)
* 182 Chrysene-d12	240	8.604	8.599	(1.000)	11333	0.10000		(M)
$ 158 4-Terphenyl-d14	244	7.636	7.630	(0.887)	2521	0.01000	0.01092	(M)
* 198 Perylene-d12	264	10.195	10.189	(1.000)	12071	0.10000		(M)
1 1,4-Dioxane	58	0.838	0.820	(0.401)	87	0.01000	0.01250	(QM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Date : 18-APR-2024 12:49
Client ID:
Sample Info: 14DX-0.01
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV6.i
Operator: LG
Column diameter: 0.28

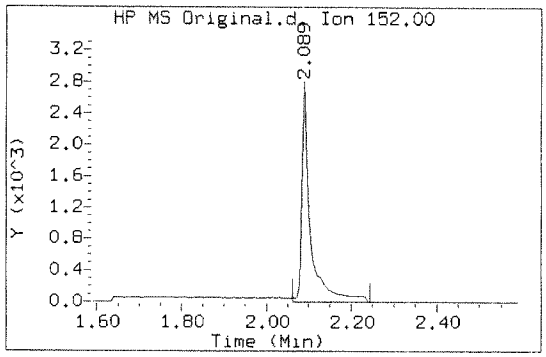


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

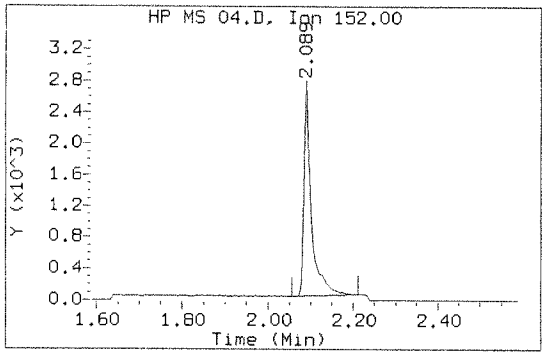
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

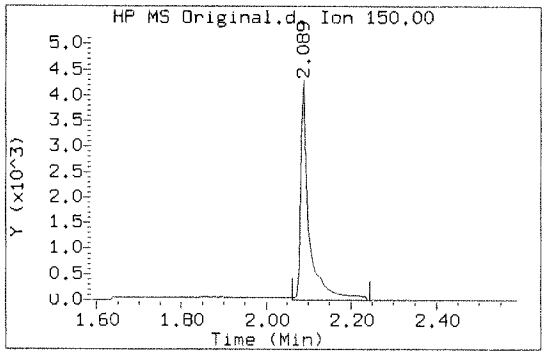
BEFORE
MASS
152
AREA
3912
HEIGHT
2804
18-Apr-2024
13:10
ALSHS
Server



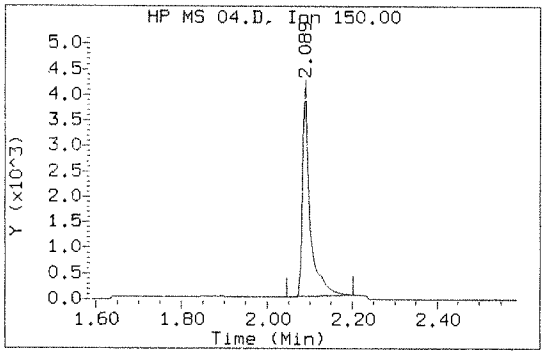
AFTER
MASS
152
AREA
3248
HEIGHT
2748
28-May-2024
13:05



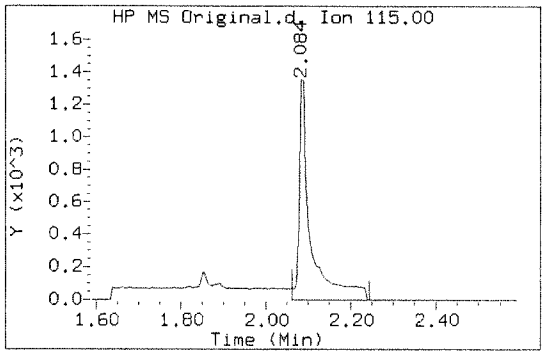
BEFORE
MASS
150
AREA
5830
HEIGHT
4294
18-Apr-2024
13:10
ALSHS
Server



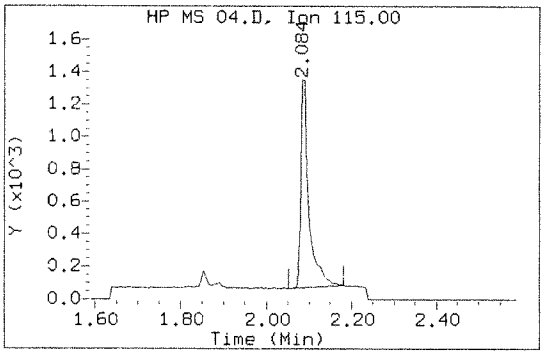
AFTER
MASS
150
AREA
5043
HEIGHT
4231
28-May-2024
13:05



BEFORE
MASS
115
AREA
2502
HEIGHT
1353
18-Apr-2024
13:10
ALSHS
Server



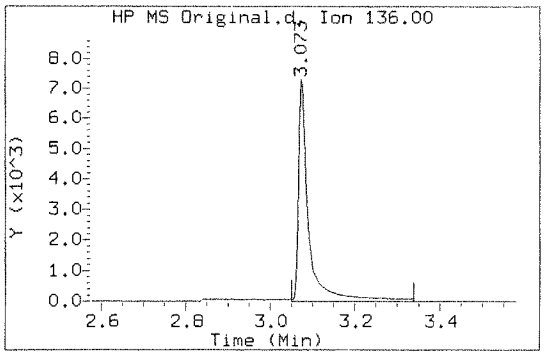
AFTER
MASS
115
AREA
1663
HEIGHT
1280
28-May-2024
13:05



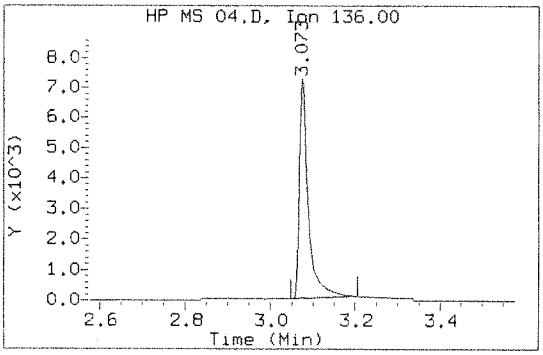
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
12033
HEIGHT
7318
18-Apr-2024
13:10
ALSHS
Server



AFTER
MASS
136
AREA
10308
HEIGHT
7248
28-May-2024
13:05

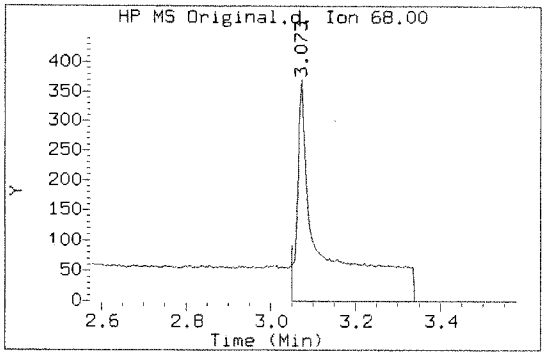


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

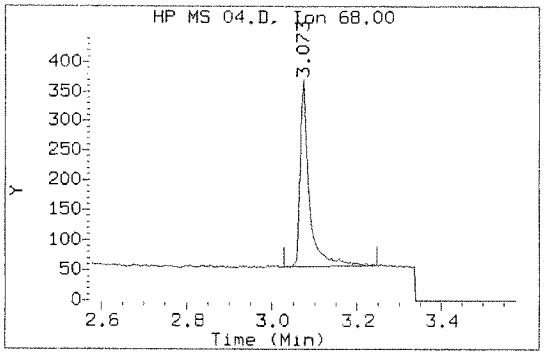
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
68
AREA
1444
HEIGHT
371
18-Apr-2024
13:10
ALSHS
Server



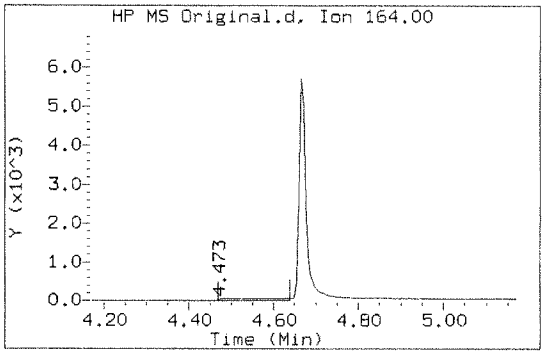
AFTER
MASS
68
AREA
448
HEIGHT
313
28-May-2024
13:05



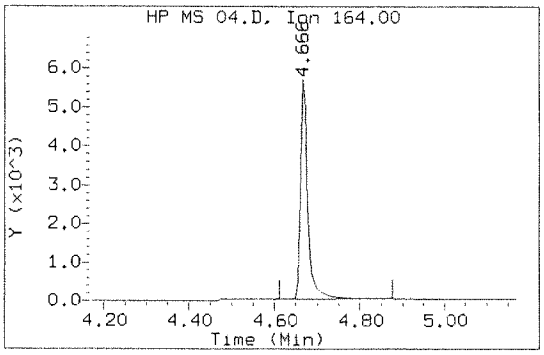
Acenaphthene-d10 (15067-26-2)

Reason Code:

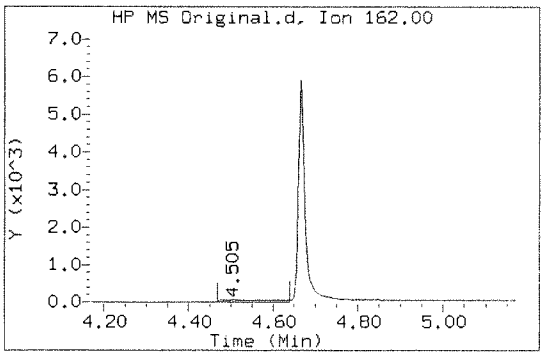
BEFORE
MASS
164
AREA
515
HEIGHT
52
18-Apr-2024
13:10
ALSHS
Server



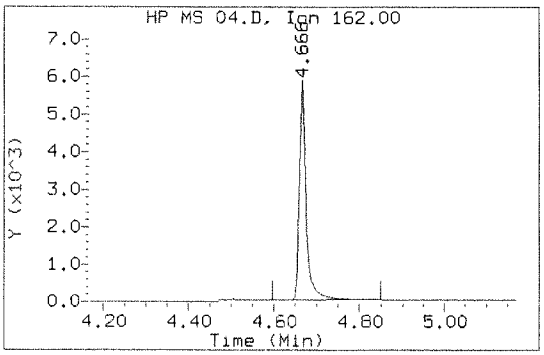
AFTER
MASS
164
AREA
6420
HEIGHT
5670
28-May-2024
13:05



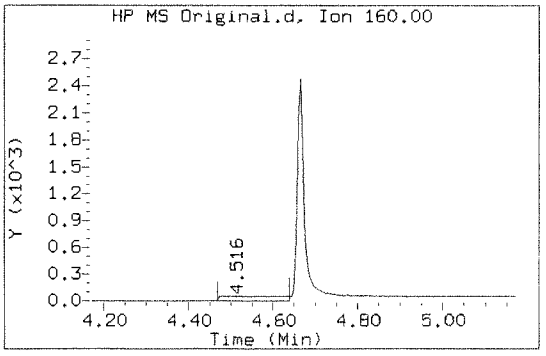
BEFORE
MASS
162
AREA
528
HEIGHT
60
18-Apr-2024
13:10
ALSHS
Server



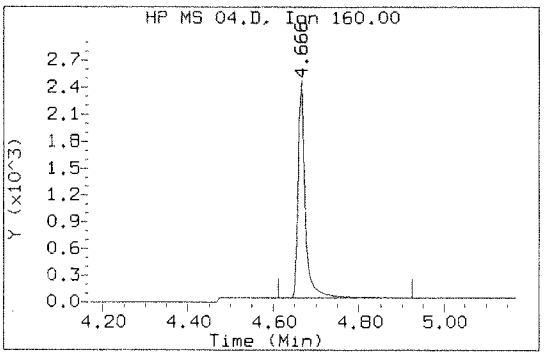
AFTER
MASS
162
AREA
6187
HEIGHT
5861
28-May-2024
13:05



BEFORE
MASS
160
AREA
499
HEIGHT
51
18-Apr-2024
13:10
ALSHS
Server



AFTER
MASS
160
AREA
2756
HEIGHT
2428
28-May-2024
13:05

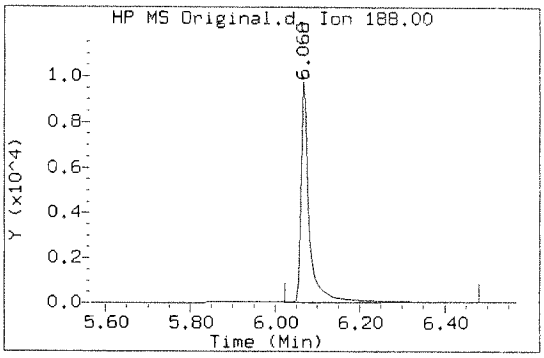


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

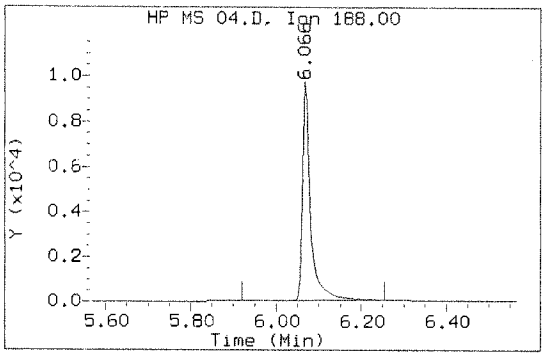
Phenanthrene-d10 (1517-22-2)

Reason Code:

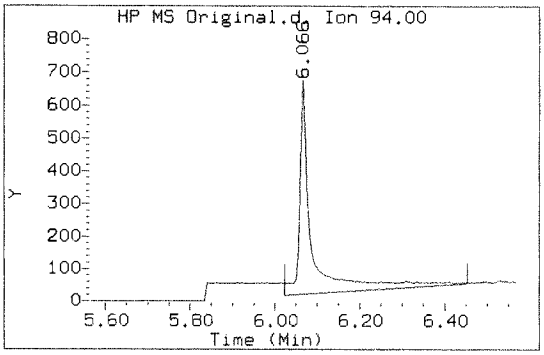
BEFORE
MASS
188
AREA
13965
HEIGHT
9748
18-Apr-2024
13:10
ALSHS
Server



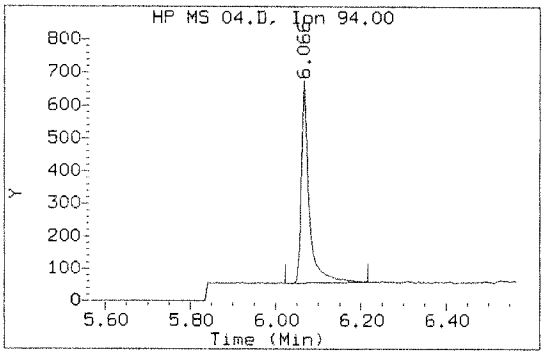
AFTER
MASS
188
AREA
12867
HEIGHT
9702
28-May-2024
13:05



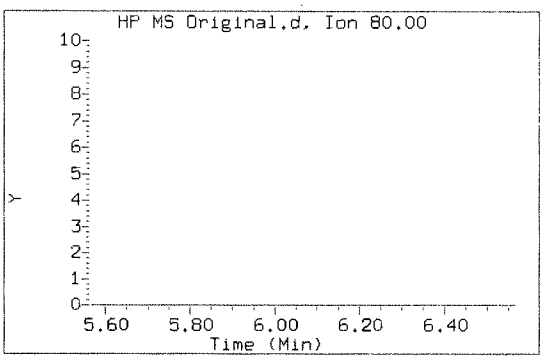
BEFORE
MASS
94
AREA
1364
HEIGHT
654
18-Apr-2024
13:10
ALSHS
Server



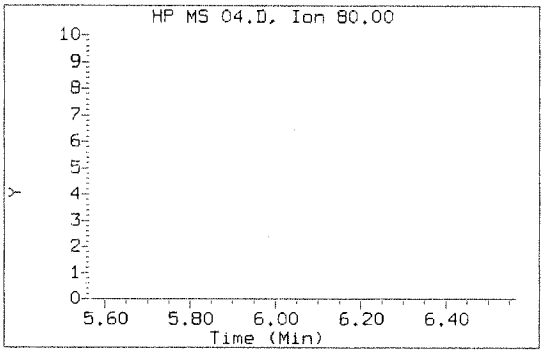
AFTER
MASS
94
AREA
793
HEIGHT
619
28-May-2024
13:05



BEFORE
MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
13:10
ALSHS
Server



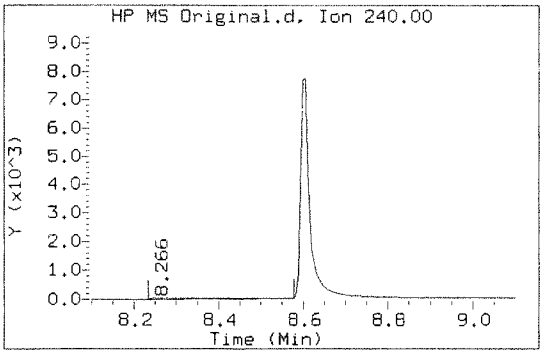
AFTER
MASS
80
AREA
0
HEIGHT
0
28-May-2024
13:05



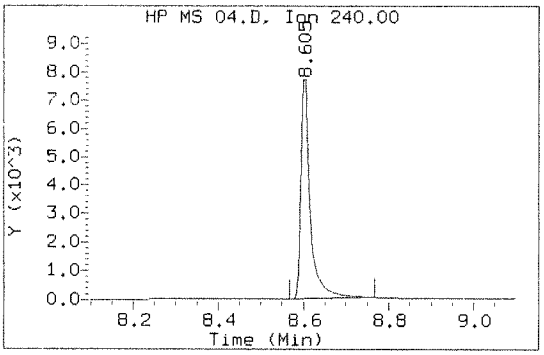
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
456
HEIGHT
48
18-Apr-2024
13:10
ALSHS
Server



AFTER
MASS
240
AREA
11333
HEIGHT
7679
28-May-2024
13:05

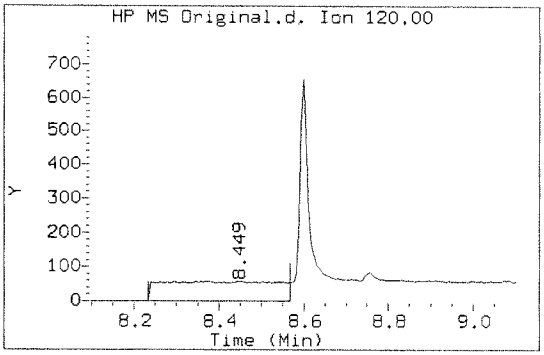


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

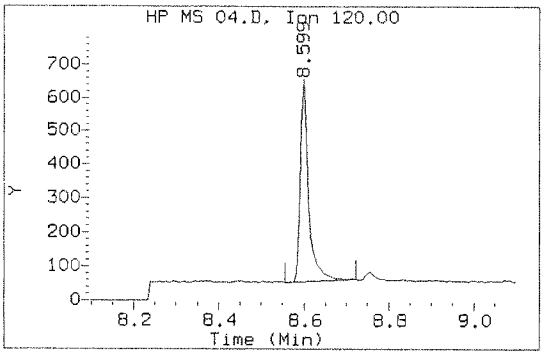
Chrysene-d12 (1719-03-5)

Reason Code:

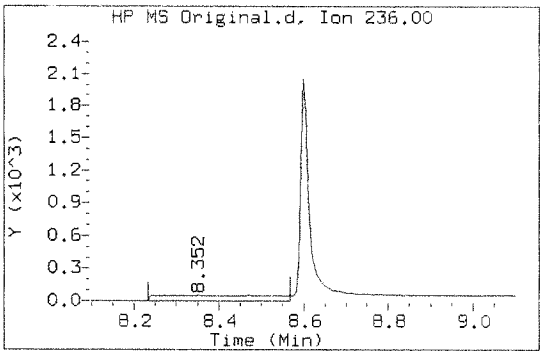
BEFORE
MASS
120
AREA
1092
HEIGHT
57
18-Apr-2024
13:10
ALSHS
Server



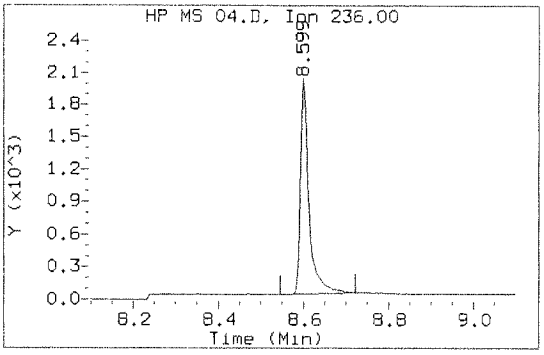
AFTER
MASS
120
AREA
786
HEIGHT
599
28-May-2024
13:05



BEFORE
MASS
236
AREA
988
HEIGHT
51
18-Apr-2024
13:10
ALSHS
Server



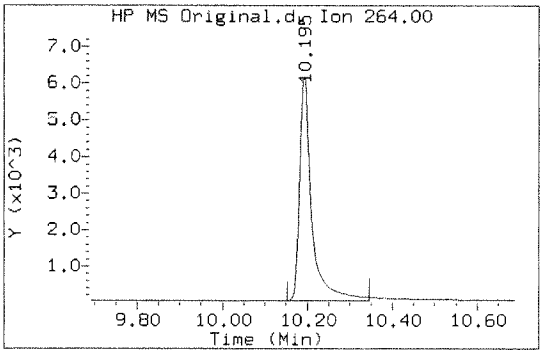
AFTER
MASS
236
AREA
2680
HEIGHT
1995
28-May-2024
13:05



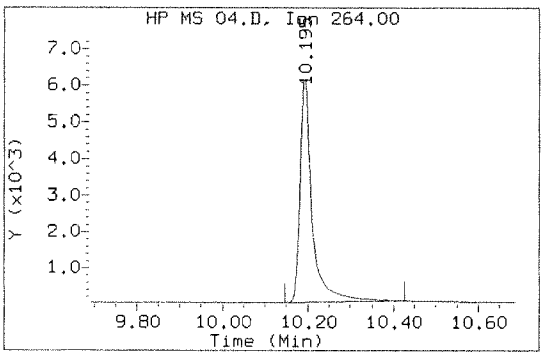
Perylene-d12 (1520-96-3)

Reason Code:

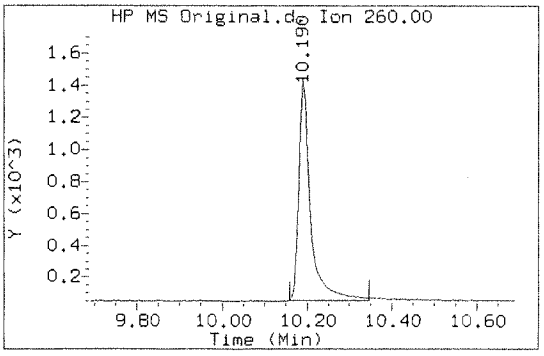
BEFORE
MASS
264
AREA
12161
HEIGHT
6073
18-Apr-2024
13:10
ALSHS
Server



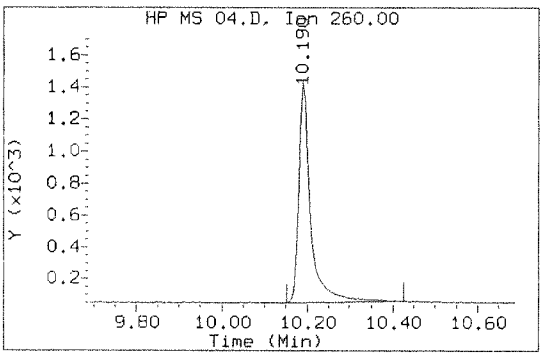
AFTER
MASS
264
AREA
12071
HEIGHT
6065
28-May-2024
13:05



BEFORE
MASS
260
AREA
2633
HEIGHT
1385
18-Apr-2024
13:10
ALSHS
Server



AFTER
MASS
260
AREA
2644
HEIGHT
1385
28-May-2024
13:05



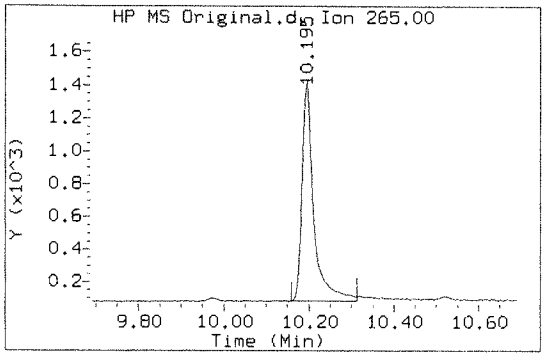
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

Perylene-d12 (1520-96-3)

Reason Code:

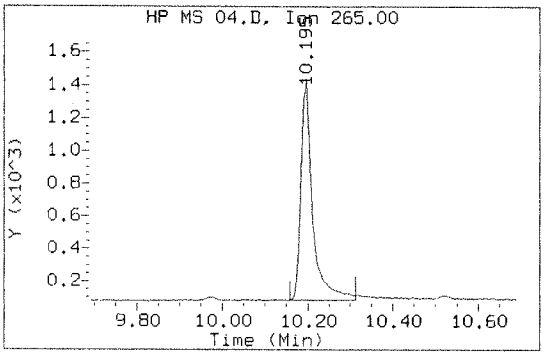
BEFORE

MASS
265
AREA
2550
HEIGHT
1343
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
265
AREA
2550
HEIGHT
1343
28-May-2024
13:05

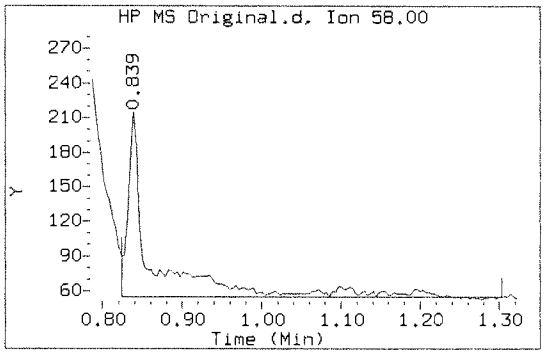


1,4-Dioxane ()

Reason Code:

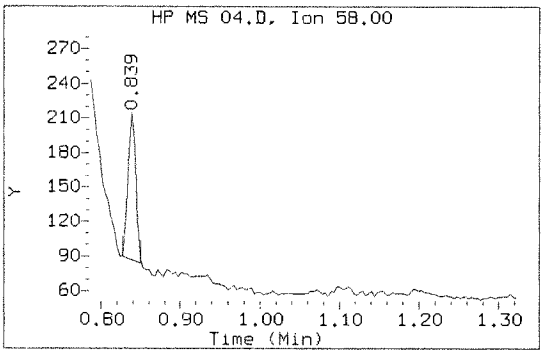
BEFORE

MASS
58
AREA
329
HEIGHT
160
18-Apr-2024
13:10
ALSHS
Server



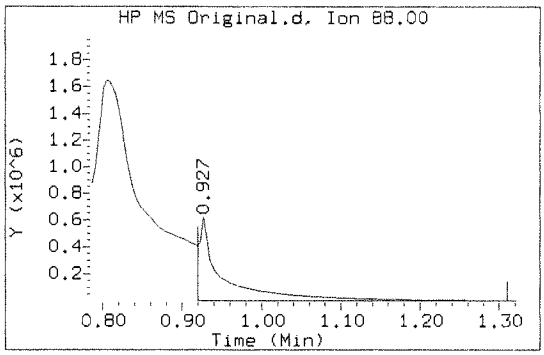
AFTER

MASS
58
AREA
87
HEIGHT
128
28-May-2024
13:05



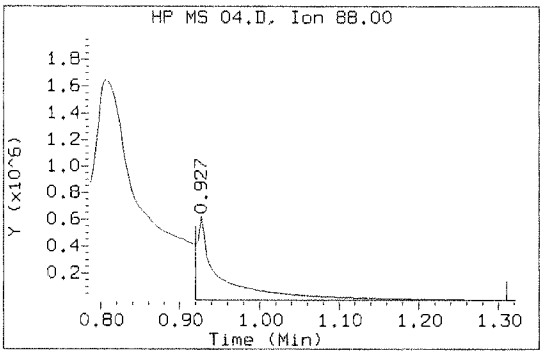
BEFORE

MASS
88
AREA
1289287
HEIGHT
619255
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
88
AREA
1289287
HEIGHT
619255
28-May-2024
13:05

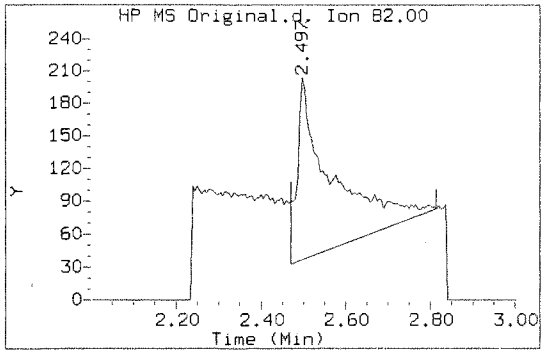


Nitrobenzene-d5 (4165-60-0)

Reason Code:

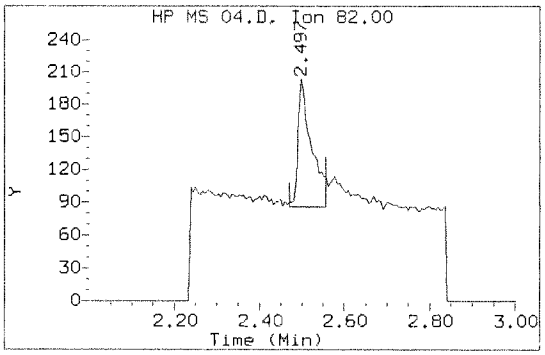
BEFORE

MASS
82
AREA
946
HEIGHT
167
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
82
AREA
262
HEIGHT
118
28-May-2024
13:05

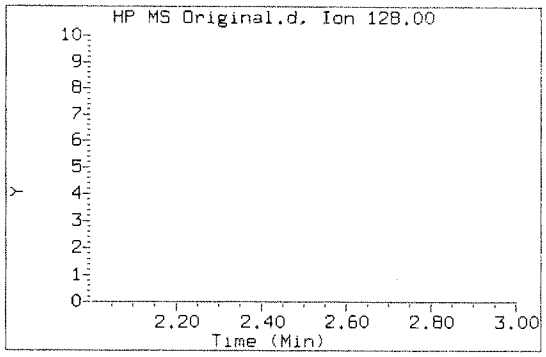


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

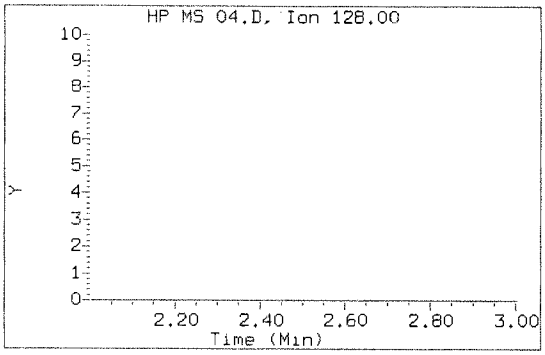
Nitrobenzene-d5 (4165-60-0)

Reason Code:

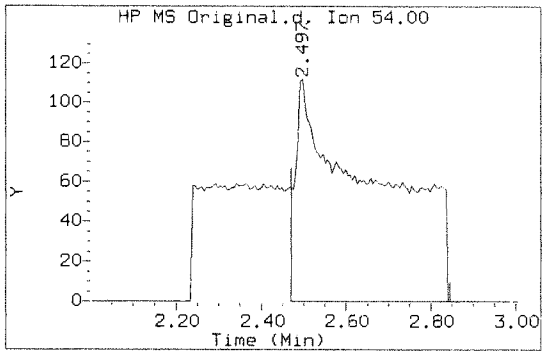
BEFORE
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
13:10
ALSHS
Server



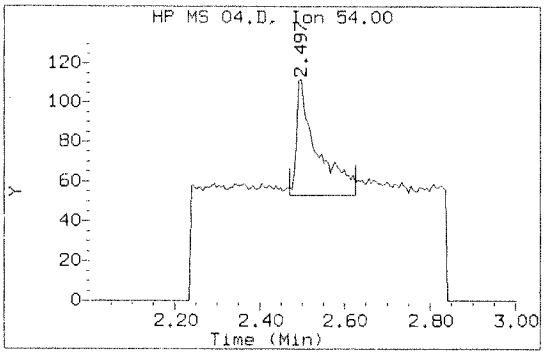
AFTER
MASS
128
AREA
0
HEIGHT
0
28-May-2024
13:05



BEFORE
MASS
54
AREA
1431
HEIGHT
112
18-Apr-2024
13:10
ALSHS
Server



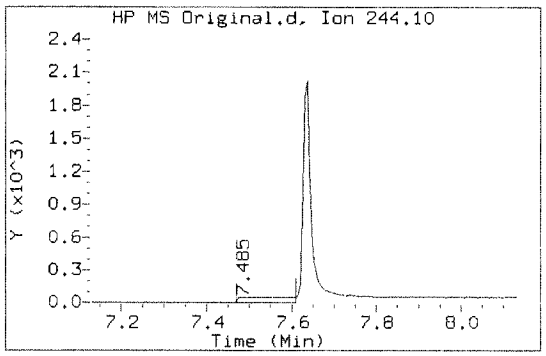
AFTER
MASS
54
AREA
197
HEIGHT
59
28-May-2024
13:05



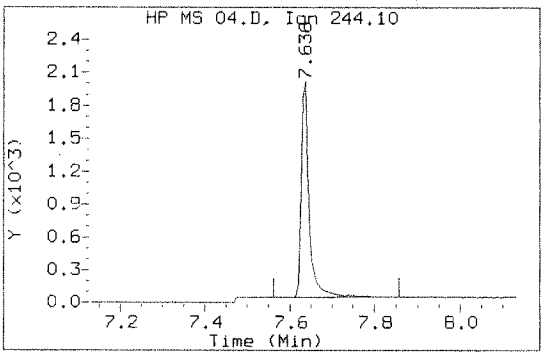
4-Terphenyl-d14 (1718-51-0)

Reason Code:

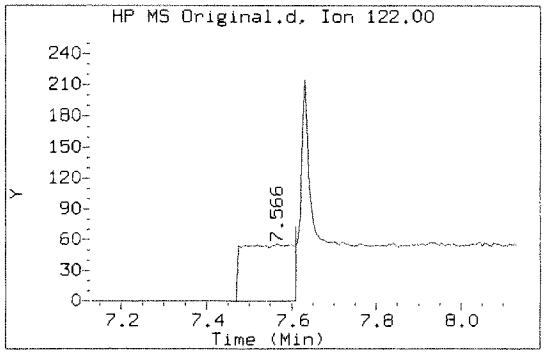
BEFORE
MASS
244.1
AREA
404
HEIGHT
49
18-Apr-2024
13:10
ALSHS
Server



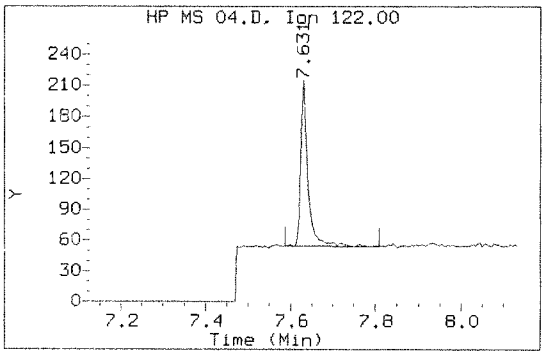
AFTER
MASS
244.1
AREA
2521
HEIGHT
1975
28-May-2024
13:05



BEFORE
MASS
122
AREA
456
HEIGHT
56
18-Apr-2024
13:10
ALSHS
Server



AFTER
MASS
122
AREA
187
HEIGHT
160
28-May-2024
13:05

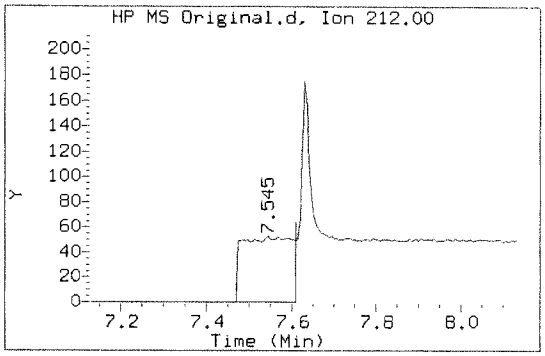


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

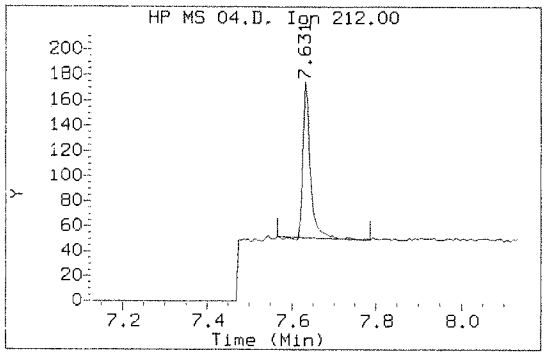
4-Terphenyl-d14 (1718-51-0)

Reason Code:

BEFORE
MASS
212
AREA
418
HEIGHT
53
18-Apr-2024
13:10
ALSHS
Server



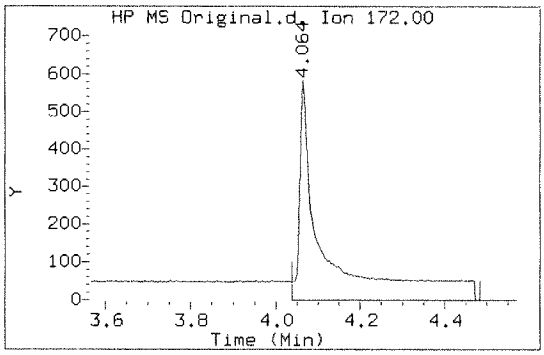
AFTER
MASS
212
AREA
146
HEIGHT
123
28-May-2024
13:05



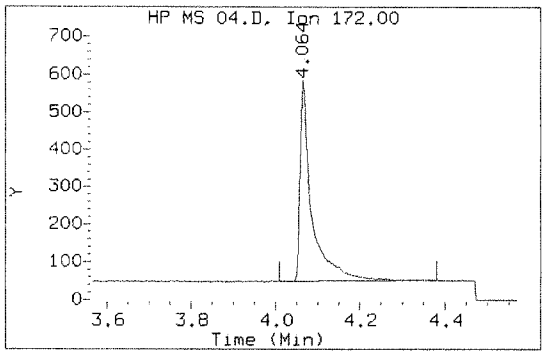
2-Fluorobiphenyl (321-60-8)

Reason Code:

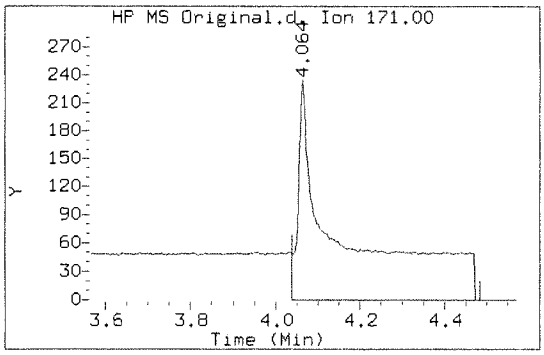
BEFORE
MASS
172
AREA
2355
HEIGHT
584
18-Apr-2024
13:10
ALSHS
Server



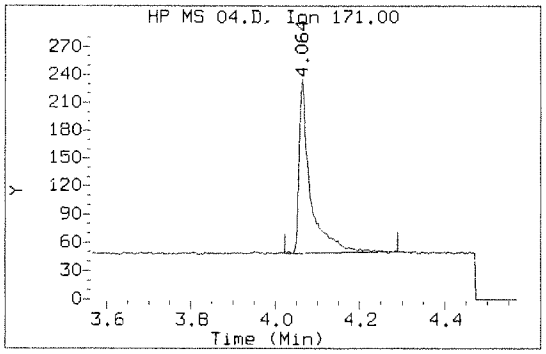
AFTER
MASS
172
AREA
1018
HEIGHT
534
28-May-2024
13:05



BEFORE
MASS
171
AREA
1637
HEIGHT
235
18-Apr-2024
13:10
ALSHS
Server



AFTER
MASS
171
AREA
346
HEIGHT
186
28-May-2024
13:05



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Lab Smp Id: 14DX-0.03
Inj Date : 18-APR-2024 13:07
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.03
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 13:07 Cal File: 05.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)	
* 20 1,4-Dichlorobenzene-d4	152	2.088	2.089	(1.000)	2278	0.10000		(aM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	6857	0.10000		(M)
$ 33 Nitrobenzene-d5	82	2.496	2.502	(0.812)	570	0.03000	0.02769	(M)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	3891	0.10000		(M)
$ 69 2-Fluorobiphenyl	172	4.063	4.067	(0.871)	1731	0.03000	0.02910	(M)
* 126 Phenanthrene-d10	188	6.065	6.065	(1.000)	7578	0.10000		(M)
* 182 Chrysene-d12	240	8.598	8.599	(1.000)	6445	0.10000		(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.887)	3857	0.03000	0.02938	(M)
* 198 Perylene-d12	264	10.189	10.189	(1.000)	6635	0.10000		
1 1,4-Dioxane	58	0.827	0.820	(0.396)	138	0.03000	0.02828	(QM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D

Date : 18-APR-2024 13:07

Client ID:

Instrument: SV6.i

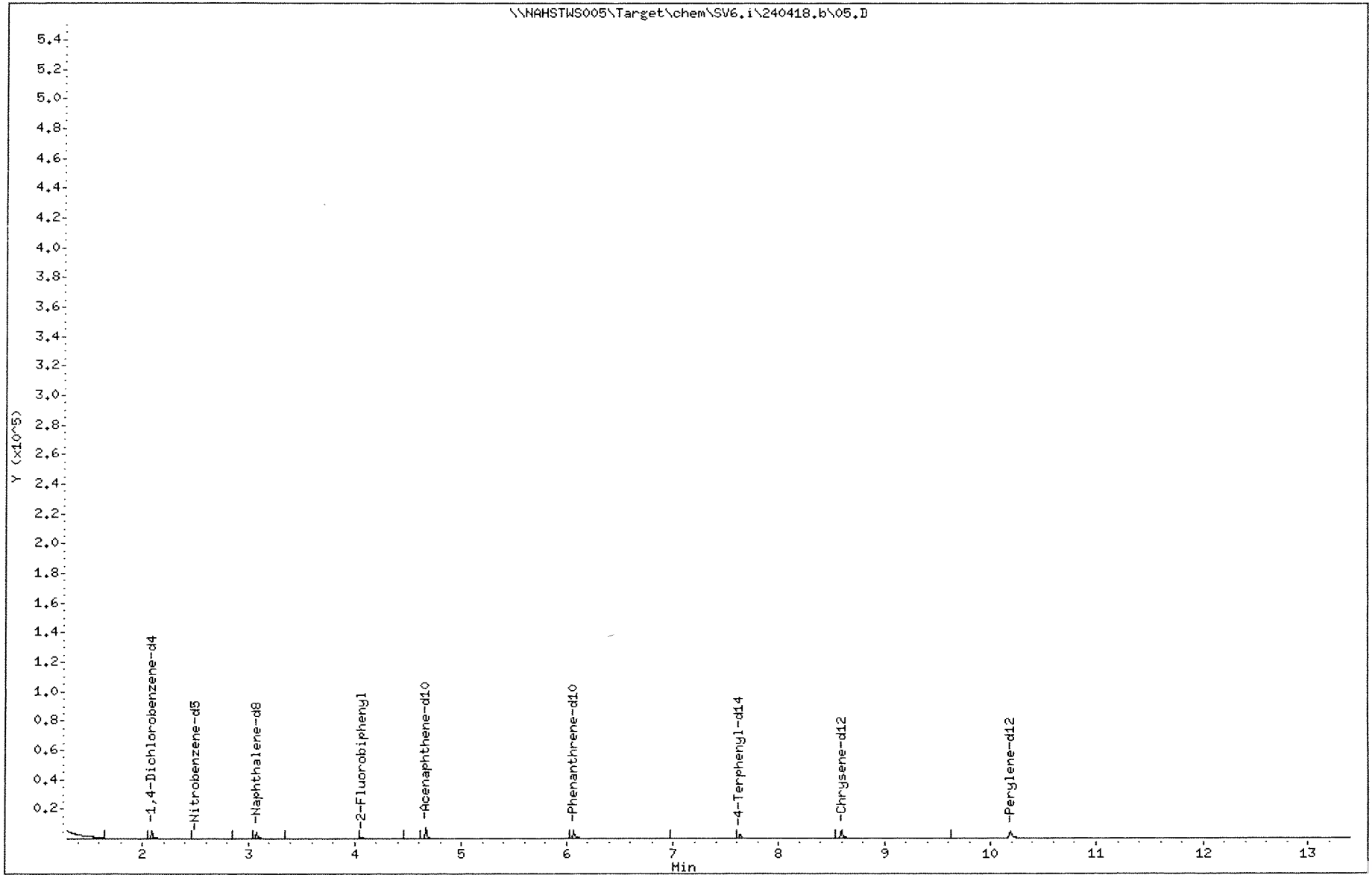
Sample Info: 14DX-0.03

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

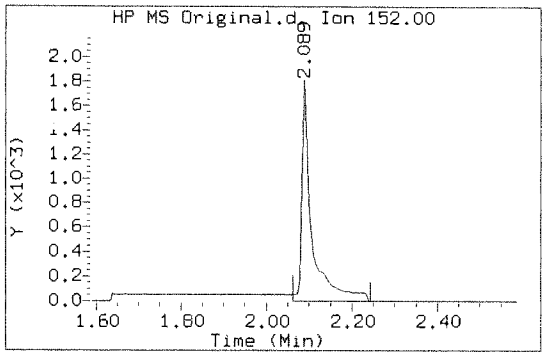


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

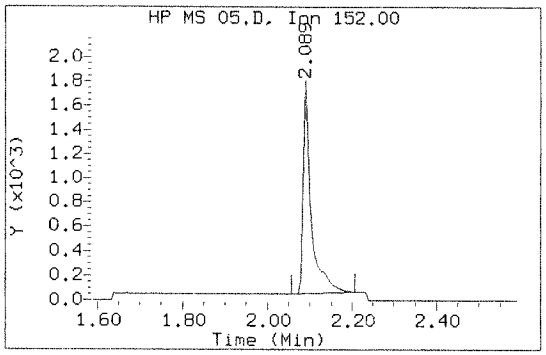
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

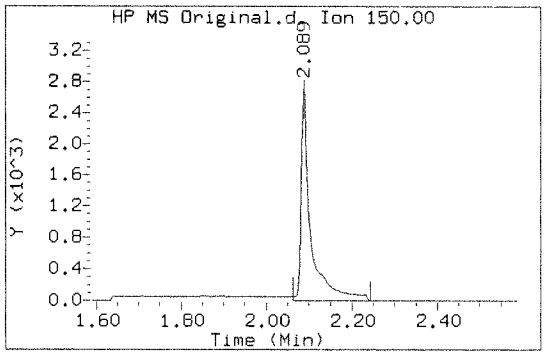
BEFORE
MASS
152
AREA
2919
HEIGHT
1810
18-Apr-2024
13:21
ALSHS
Server



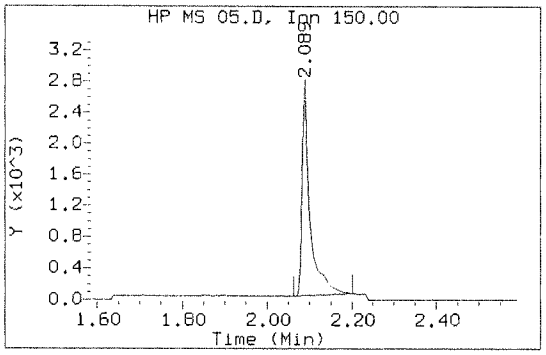
AFTER
MASS
152
AREA
2278
HEIGHT
1755
28-May-2024
13:05



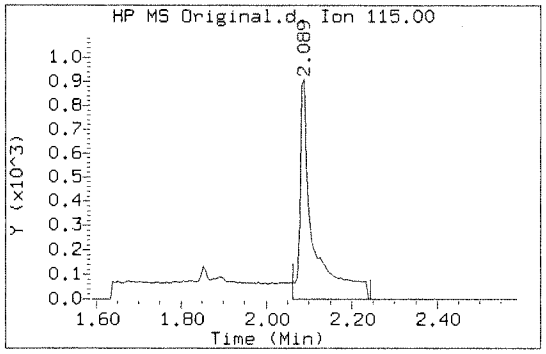
BEFORE
MASS
150
AREA
4252
HEIGHT
2826
18-Apr-2024
13:21
ALSHS
Server



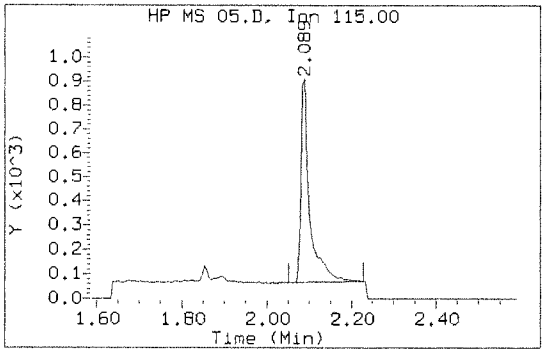
AFTER
MASS
150
AREA
3521
HEIGHT
2768
28-May-2024
13:05



BEFORE
MASS
115
AREA
1932
HEIGHT
913
18-Apr-2024
13:21
ALSHS
Server



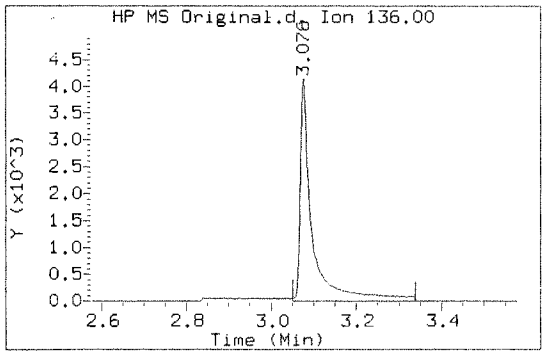
AFTER
MASS
115
AREA
1207
HEIGHT
846
28-May-2024
13:05



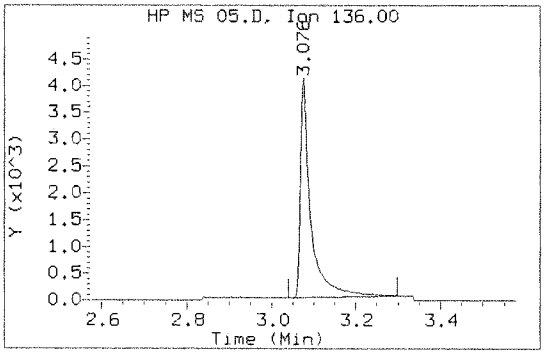
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
8079
HEIGHT
4148
18-Apr-2024
13:21
ALSHS
Server



AFTER
MASS
136
AREA
6857
HEIGHT
4091
28-May-2024
13:05

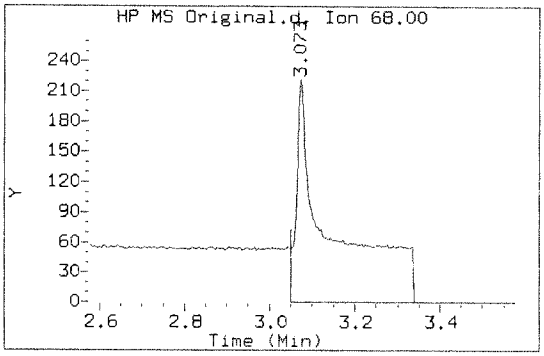


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

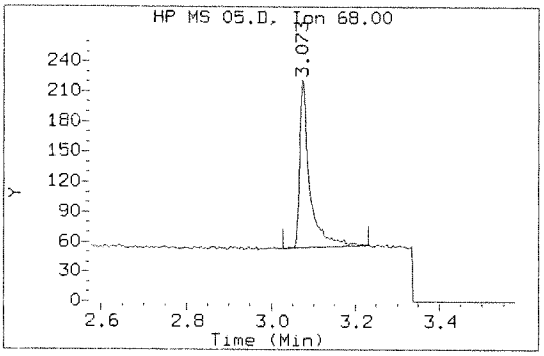
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
68
AREA
1234
HEIGHT
222
18-Apr-2024
13:21
ALSHS
Server



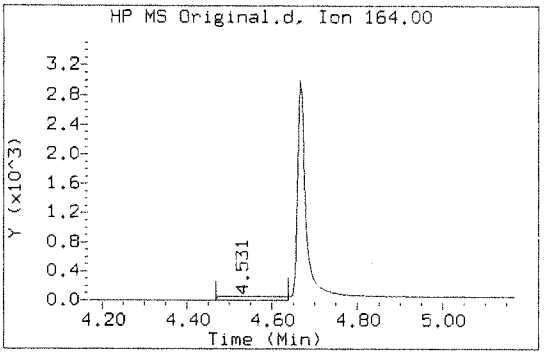
AFTER
MASS
68
AREA
270
HEIGHT
167
28-May-2024
13:05



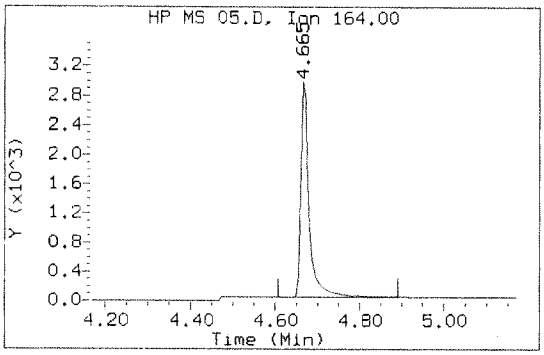
Acenaphthene-d10 (15067-26-2)

Reason Code:

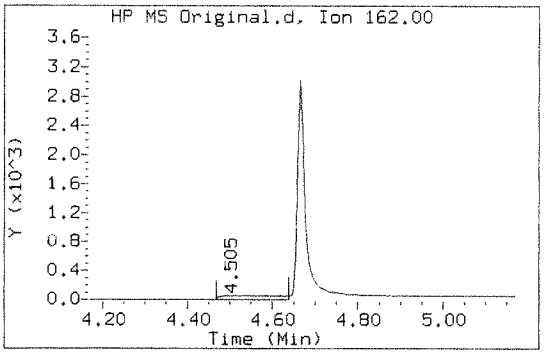
BEFORE
MASS
164
AREA
504
HEIGHT
51
18-Apr-2024
13:21
ALSHS
Server



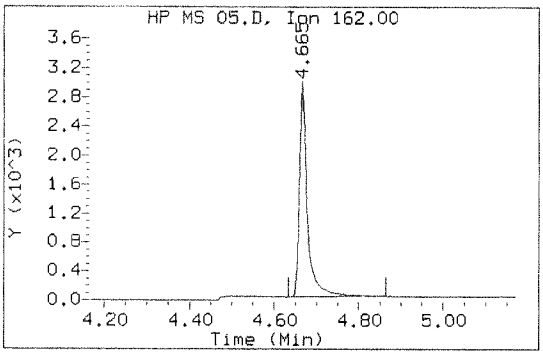
AFTER
MASS
164
AREA
3891
HEIGHT
2944
28-May-2024
13:05



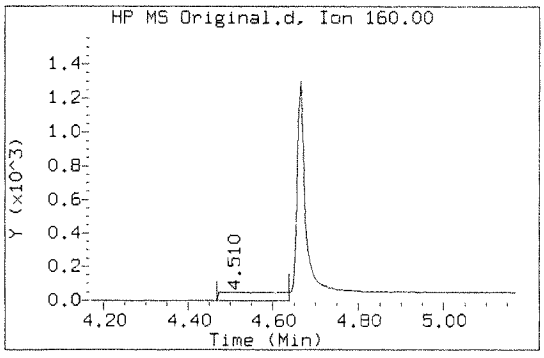
BEFORE
MASS
162
AREA
505
HEIGHT
54
18-Apr-2024
13:21
ALSHS
Server



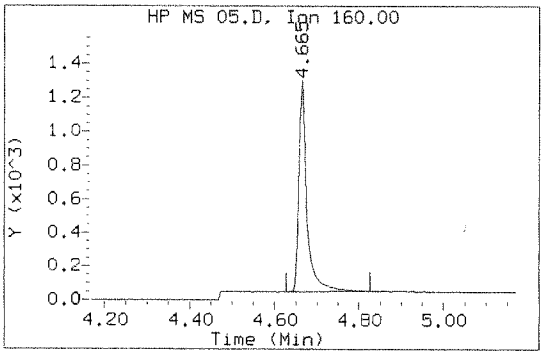
AFTER
MASS
162
AREA
3749
HEIGHT
2972
28-May-2024
13:05



BEFORE
MASS
160
AREA
490
HEIGHT
49
18-Apr-2024
13:21
ALSHS
Server



AFTER
MASS
160
AREA
1625
HEIGHT
1253
28-May-2024
13:05

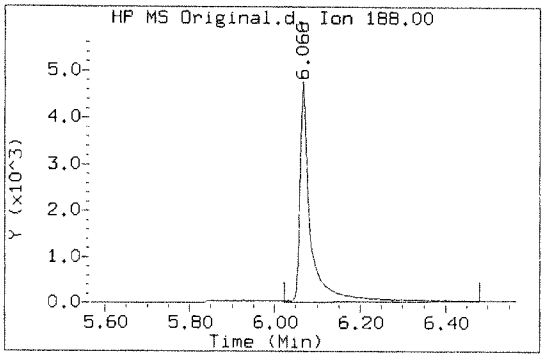


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

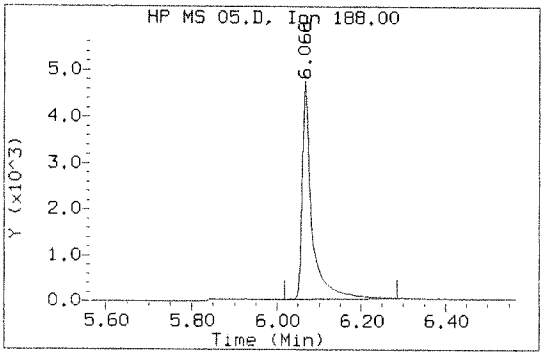
Phenanthrene-d10 (1517-22-2)

Reason Code:

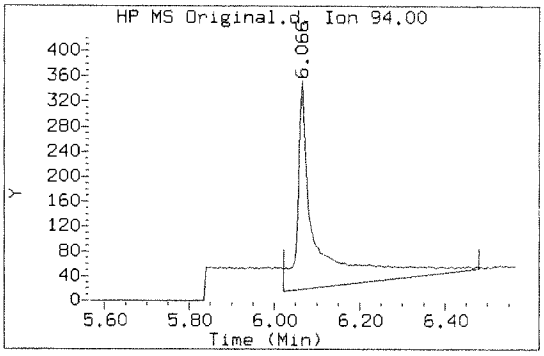
BEFORE
MASS
188
AREA
8422
HEIGHT
4756
18-Apr-2024
13:21
ALSHS
Server



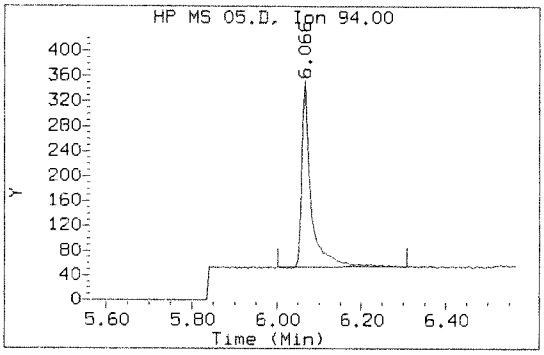
AFTER
MASS
188
AREA
7578
HEIGHT
4722
28-May-2024
13:05



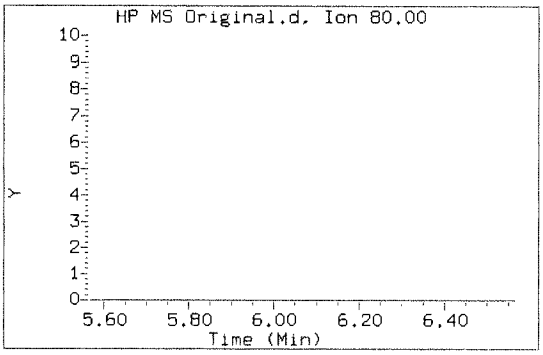
BEFORE
MASS
94
AREA
1045
HEIGHT
334
18-Apr-2024
13:21
ALSHS
Server



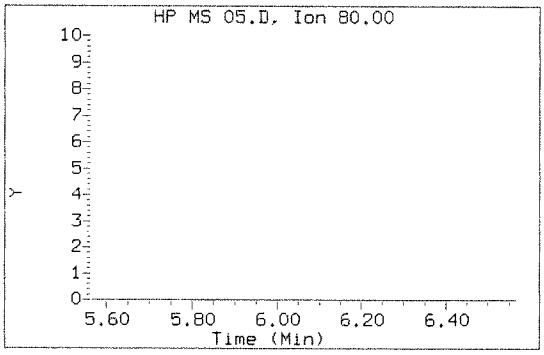
AFTER
MASS
94
AREA
460
HEIGHT
298
28-May-2024
13:05



BEFORE
MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
13:21
ALSHS
Server



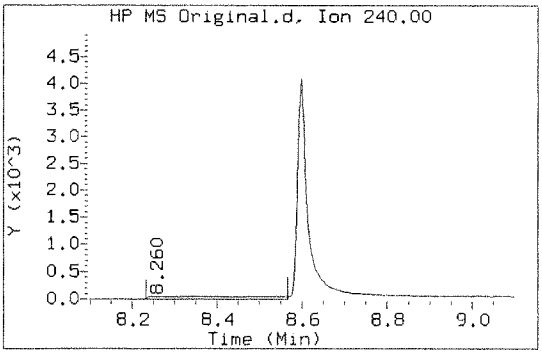
AFTER
MASS
80
AREA
0
HEIGHT
0
28-May-2024
13:05



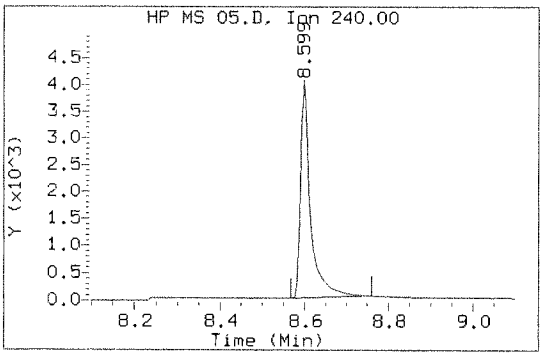
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
966
HEIGHT
50
18-Apr-2024
13:21
ALSHS
Server



AFTER
MASS
240
AREA
6445
HEIGHT
4036
28-May-2024
13:05

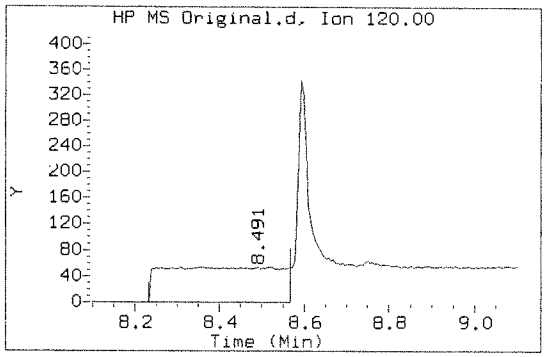


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

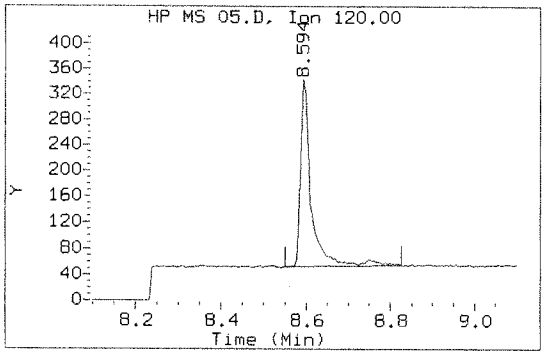
Chrysene-d12 (1719-03-5)

Reason Code:

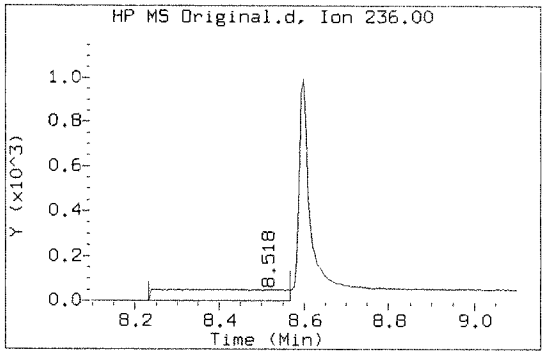
BEFORE
MASS
120
AREA
1053
HEIGHT
55
18-Apr-2024
13:21
ALSHS
Server



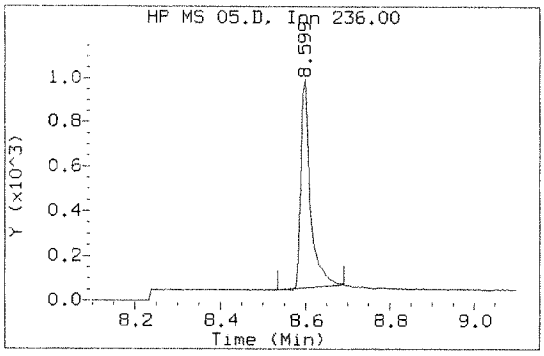
AFTER
MASS
120
AREA
500
HEIGHT
290
28-May-2024
13:05



BEFORE
MASS
236
AREA
963
HEIGHT
50
18-Apr-2024
13:21
ALSHS
Server



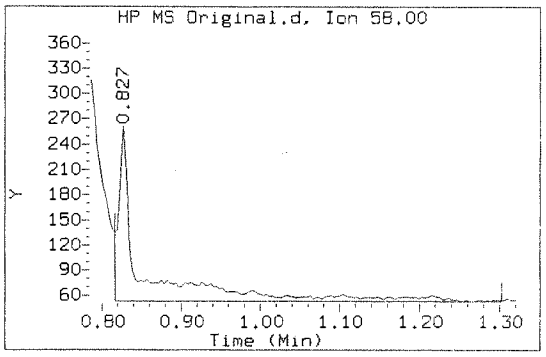
AFTER
MASS
236
AREA
1446
HEIGHT
938
28-May-2024
13:05



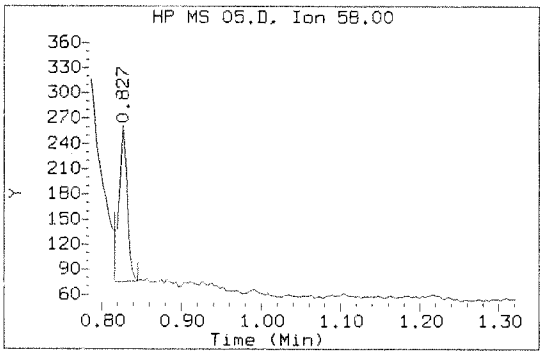
1,4-Dioxane ()

Reason Code:

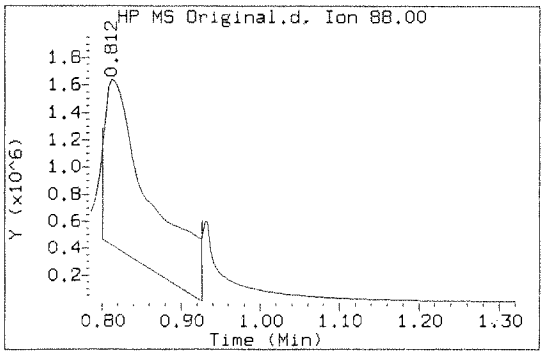
BEFORE
MASS
58
AREA
414
HEIGHT
208
18-Apr-2024
13:21
ALSHS
Server



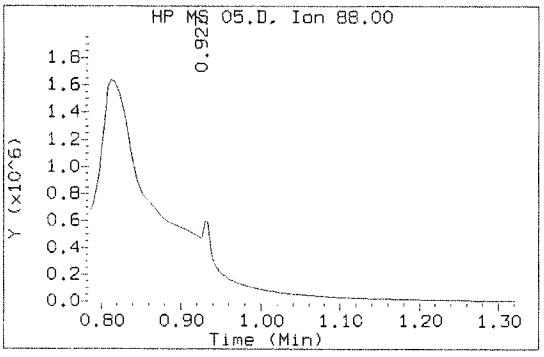
AFTER
MASS
58
AREA
138
HEIGHT
185
28-May-2024
13:05



BEFORE
MASS
88
AREA
4998904
HEIGHT
1209480
18-Apr-2024
13:21
ALSHS
Server



AFTER
MASS
88
AREA
0
HEIGHT
0
28-May-2024
13:05

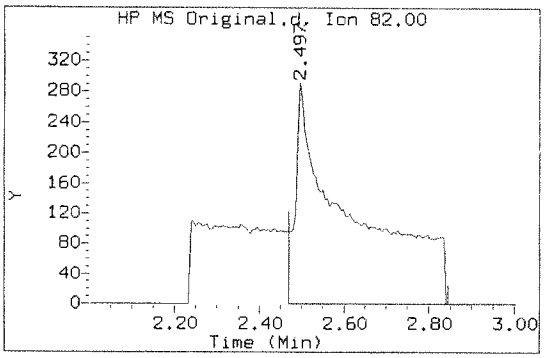


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

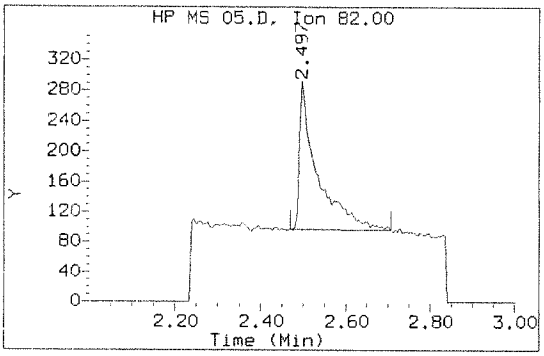
Nitrobenzene-d5 (4165-60-0)

Reason Code:

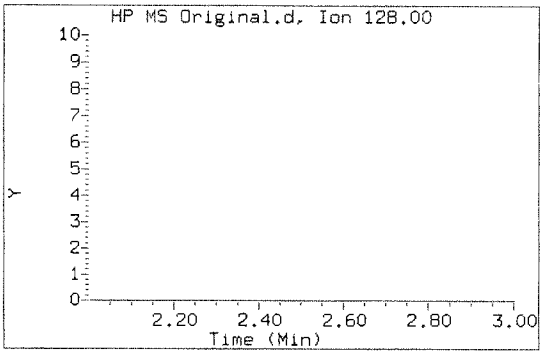
BEFORE
MASS
82
AREA
2662
HEIGHT
292
18-Apr-2024
13:21
ALSHS
Server



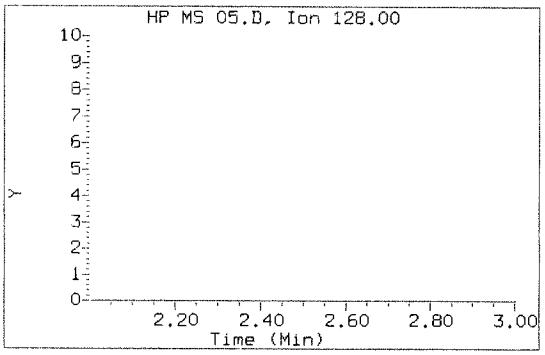
AFTER
MASS
82
AREA
570
HEIGHT
195
28-May-2024
13:05



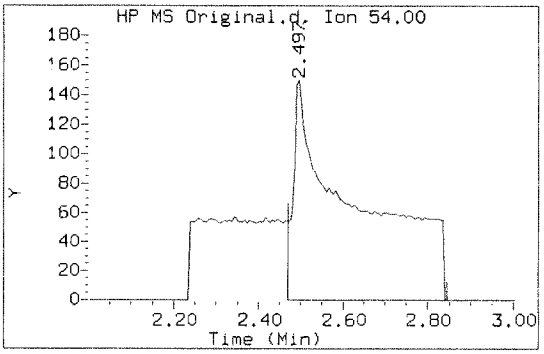
BEFORE
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
13:21
ALSHS
Server



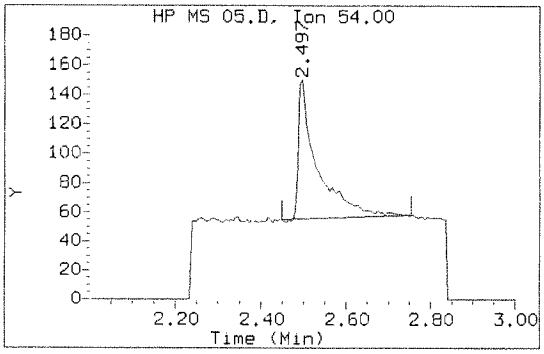
AFTER
MASS
128
AREA
0
HEIGHT
0
28-May-2024
13:05



BEFORE
MASS
54
AREA
1538
HEIGHT
150
18-Apr-2024
13:21
ALSHS
Server



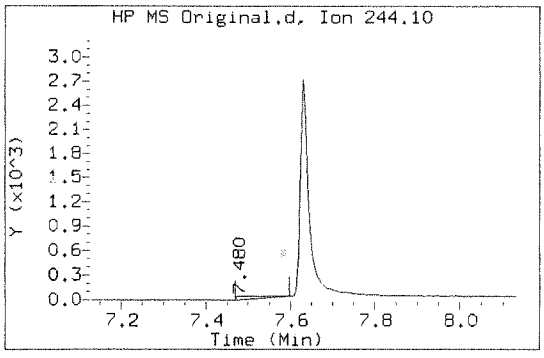
AFTER
MASS
54
AREA
289
HEIGHT
94
28-May-2024
13:05



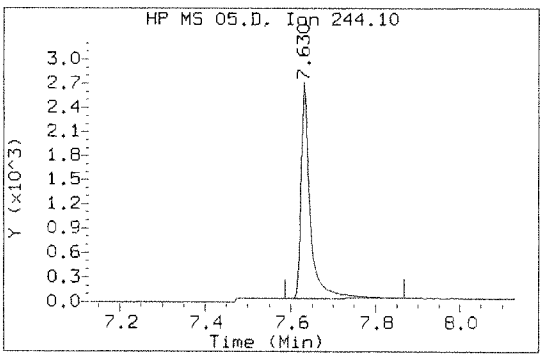
4-Terphenyl-d14 (1718-51-0)

Reason Code:

BEFORE
MASS
244.1
AREA
174
HEIGHT
44
18-Apr-2024
13:21
ALSHS
Server



AFTER
MASS
244.1
AREA
3857
HEIGHT
2674
28-May-2024
13:05

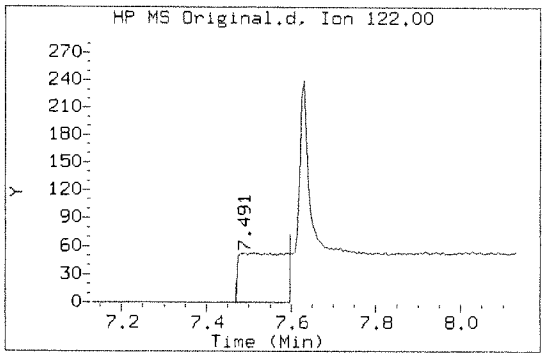


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

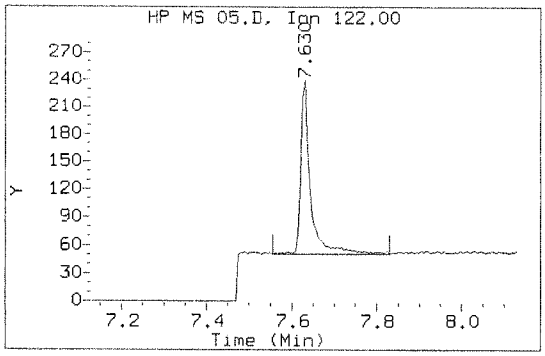
4-Terphenyl-d14 (1718-51-0)

Reason Code:

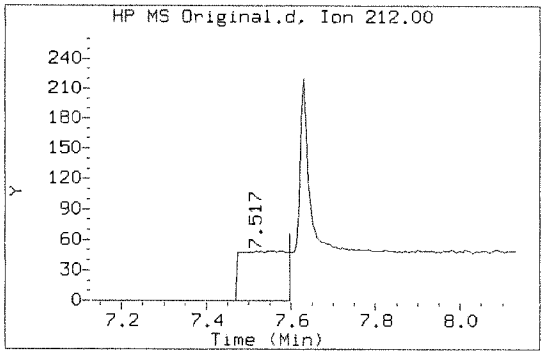
BEFORE
MASS
122
AREA
401
HEIGHT
53
18-Apr-2024
13:21
ALSHS
Server



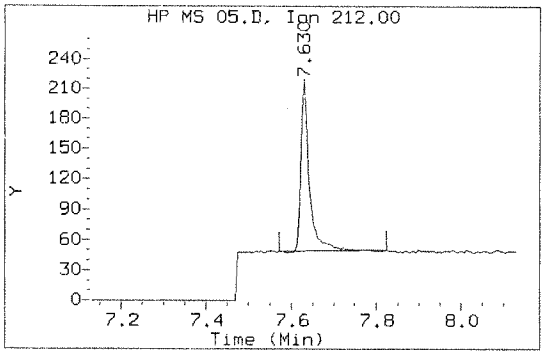
AFTER
MASS
122
AREA
296
HEIGHT
189
28-May-2024
13:05



BEFORE
MASS
212
AREA
374
HEIGHT
49
18-Apr-2024
13:21
ALSHS
Server



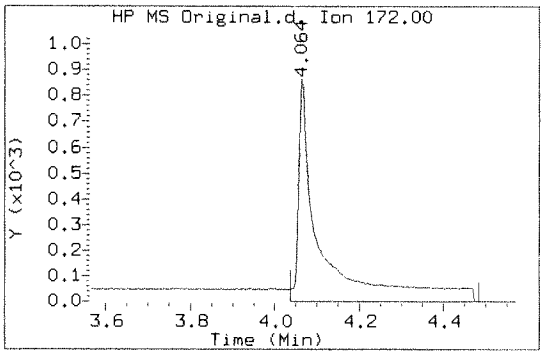
AFTER
MASS
212
AREA
227
HEIGHT
170
28-May-2024
13:05



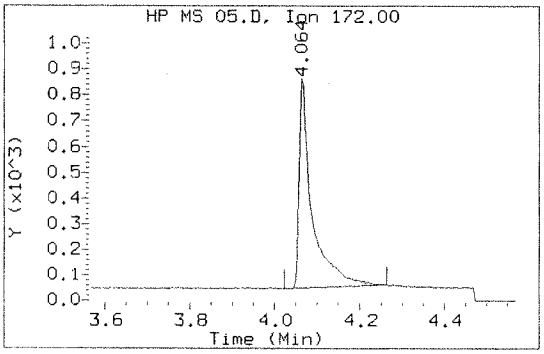
2-Fluorobiphenyl (321-60-8)

Reason Code:

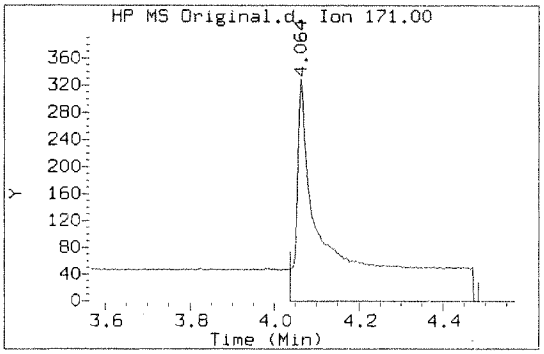
BEFORE
MASS
172
AREA
3193
HEIGHT
863
18-Apr-2024
13:21
ALSHS
Server



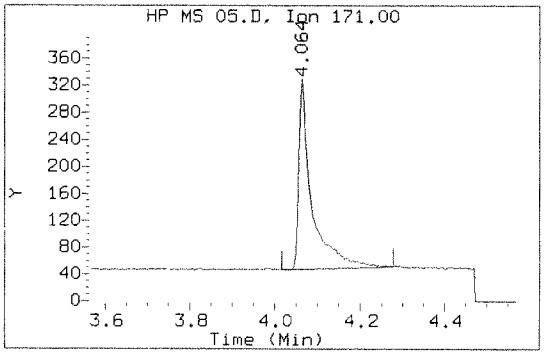
AFTER
MASS
172
AREA
1731
HEIGHT
812
28-May-2024
13:05



BEFORE
MASS
171
AREA
1906
HEIGHT
329
18-Apr-2024
13:21
ALSHS
Server



AFTER
MASS
171
AREA
602
HEIGHT
281
28-May-2024
13:05



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Lab Smp Id: 14DX-0.05
Inj Date : 18-APR-2024 13:25
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.05
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 13:25 Cal File: 06.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)	
* 20 1,4-Dichlorobenzene-d4	152	2.094	2.089	(1.000)	3152	0.10000		(aM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	9502	0.10000		(M)
$ 33 Nitrobenzene-d5	82	2.497	2.502	(0.812)	1589	0.05000	0.05570	(M)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	6015	0.10000		(M)
$ 69 2-Fluorobiphenyl	172	4.064	4.067	(0.871)	4588	0.05000	0.04990	(M)
* 126 Phenanthrene-d10	188	6.065	6.065	(1.000)	11597	0.10000		(M)
* 182 Chrysene-d12	240	8.599	8.599	(1.000)	10029	0.10000		(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.887)	10047	0.05000	0.04918	(M)
* 198 Perylene-d12	264	10.189	10.189	(1.000)	10408	0.10000		(M)
1 1,4-Dioxane	58	0.849	0.820	(0.406)	339	0.05000	0.05021	(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D

Date : 18-APR-2024 13:25

Client ID:

Instrument: SV6.i

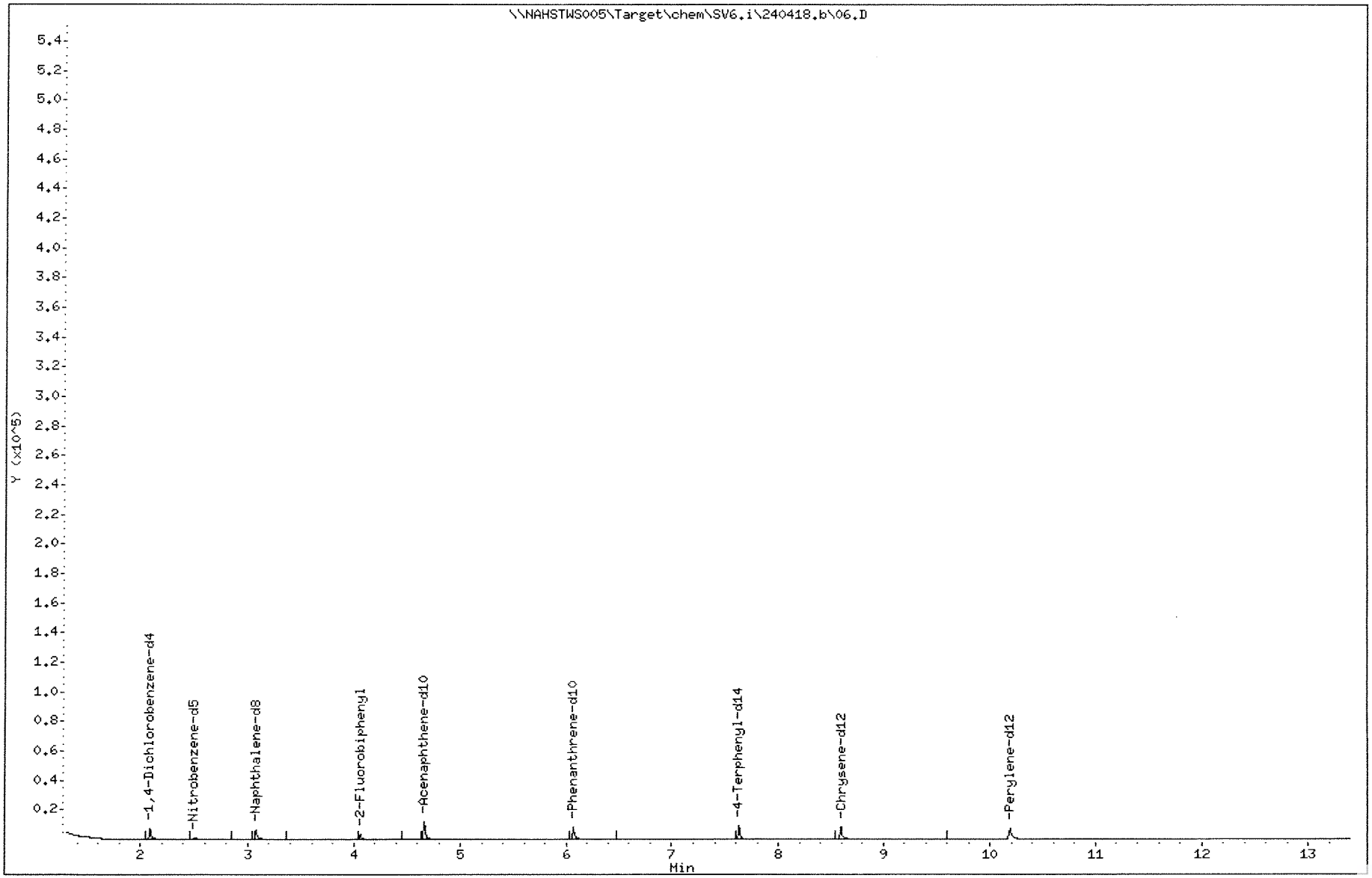
Sample Info: 14DX-0.05

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

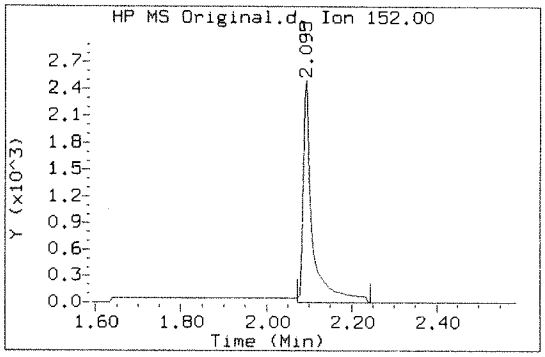


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

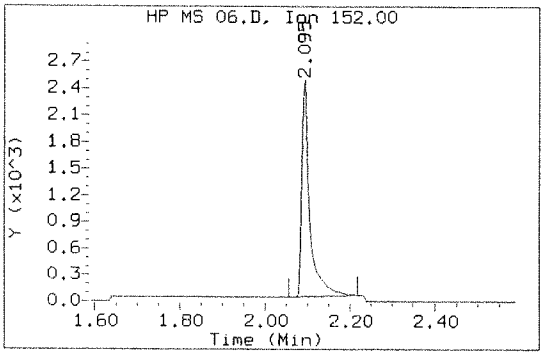
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

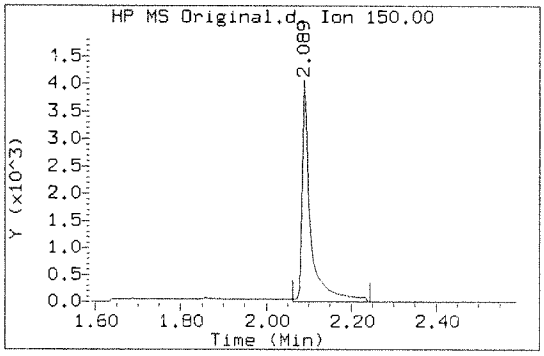
BEFORE
MASS 152
AREA 3790
HEIGHT 2499
18-Apr-2024 13:40
ALSHS Server



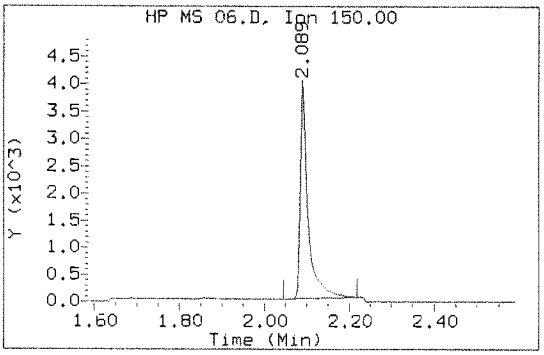
AFTER
MASS 152
AREA 3152
HEIGHT 2443
28-May-2024 13:05



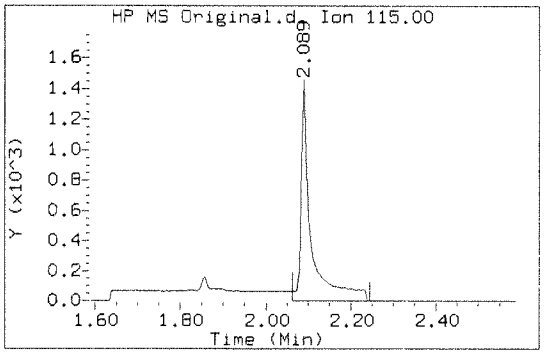
BEFORE
MASS 150
AREA 5683
HEIGHT 4072
18-Apr-2024 13:40
ALSHS Server



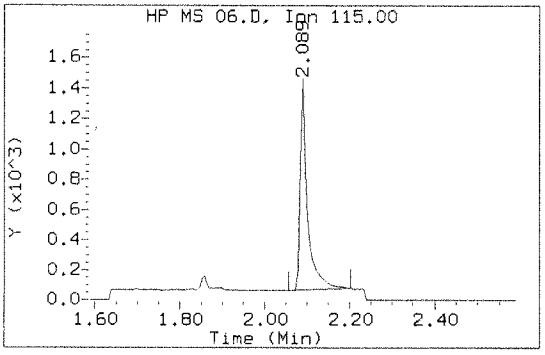
AFTER
MASS 150
AREA 4936
HEIGHT 4013
28-May-2024 13:05



BEFORE
MASS 115
AREA 2390
HEIGHT 1458
18-Apr-2024 13:40
ALSHS Server



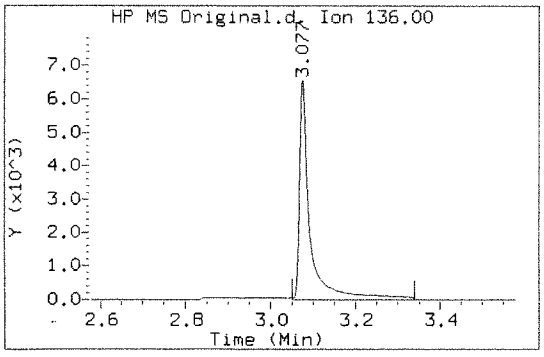
AFTER
MASS 115
AREA 1620
HEIGHT 1390
28-May-2024 13:05



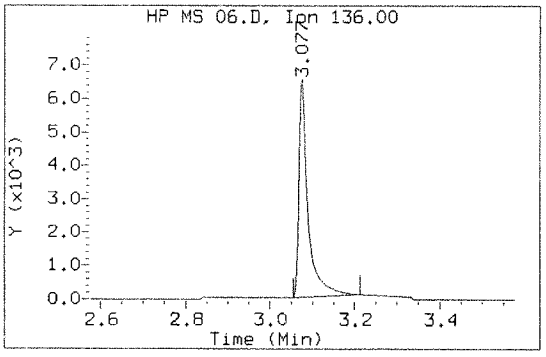
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS 136
AREA 11303
HEIGHT 6569
18-Apr-2024 13:40
ALSHS Server



AFTER
MASS 136
AREA 9502
HEIGHT 6499
28-May-2024 13:05

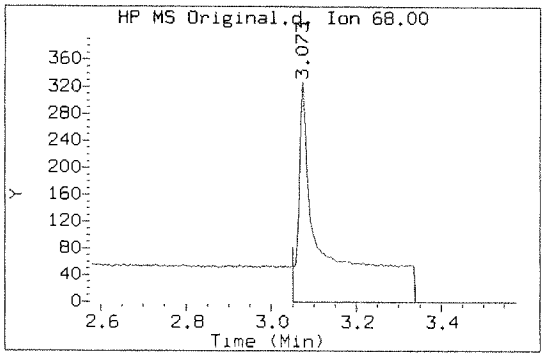


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

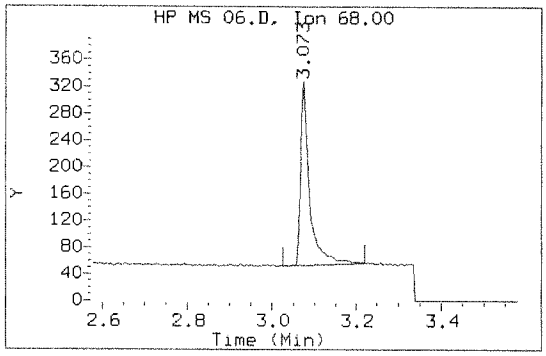
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
68
AREA
1344
HEIGHT
328
18-Apr-2024
13:40
ALSHS
Server



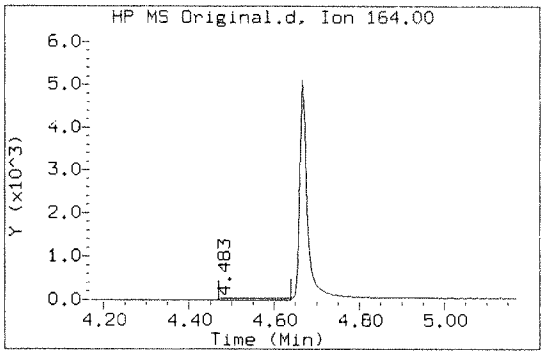
AFTER
MASS
68
AREA
401
HEIGHT
275
28-May-2024
13:05



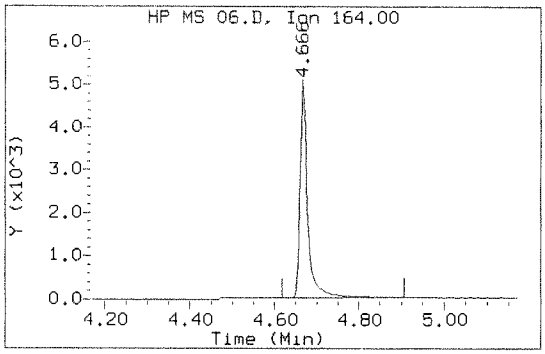
Acenaphthene-d10 (15067-26-2)

Reason Code:

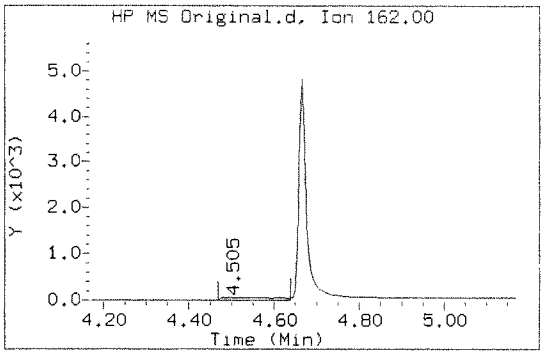
BEFORE
MASS
164
AREA
496
HEIGHT
51
18-Apr-2024
13:40
ALSHS
Server



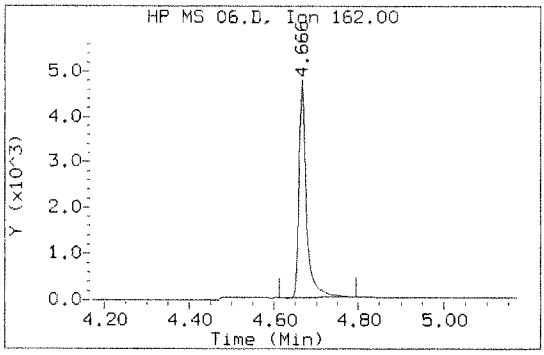
AFTER
MASS
164
AREA
6015
HEIGHT
5068
28-May-2024
13:05



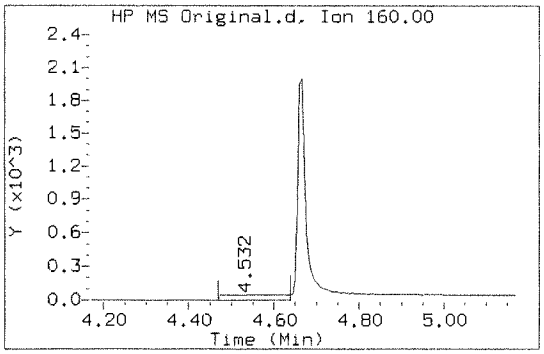
BEFORE
MASS
162
AREA
502
HEIGHT
53
18-Apr-2024
13:40
ALSHS
Server



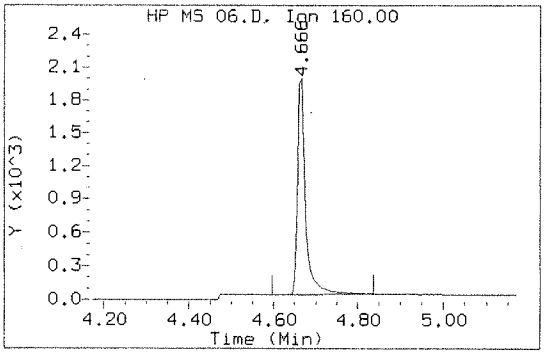
AFTER
MASS
162
AREA
5625
HEIGHT
4775
28-May-2024
13:05



BEFORE
MASS
160
AREA
484
HEIGHT
49
18-Apr-2024
13:40
ALSHS
Server



AFTER
MASS
160
AREA
2508
HEIGHT
1951
28-May-2024
13:05

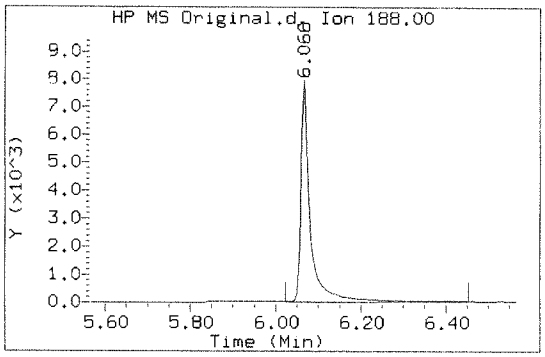


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

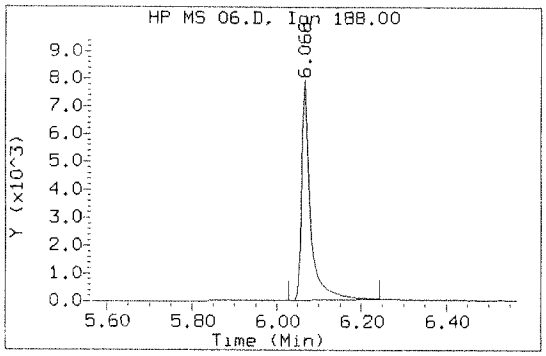
Phenanthrene-d10 (1517-22-2)

Reason Code:

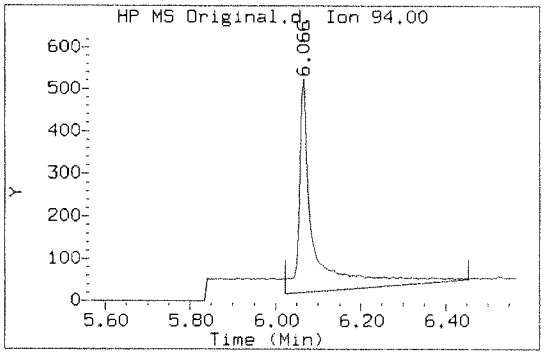
BEFORE
MASS
188
AREA
12630
HEIGHT
7964
18-Apr-2024
13:40
ALSHS
Server



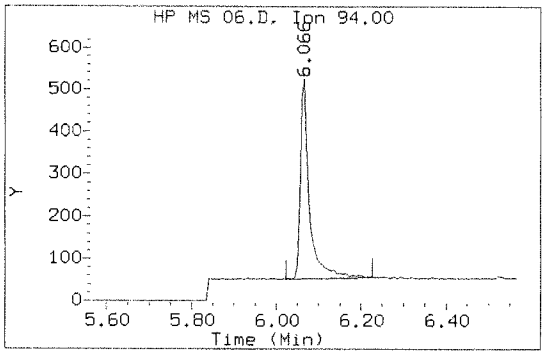
AFTER
MASS
188
AREA
11597
HEIGHT
7928
28-May-2024
13:05



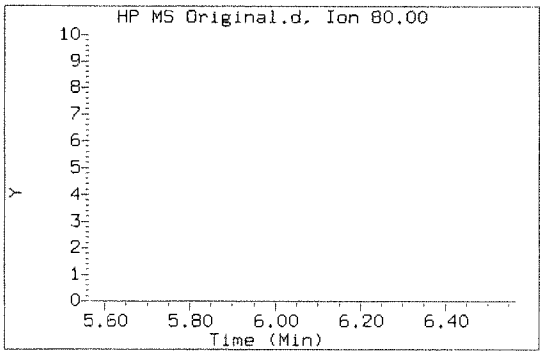
BEFORE
MASS
94
AREA
1254
HEIGHT
505
18-Apr-2024
13:40
ALSHS
Server



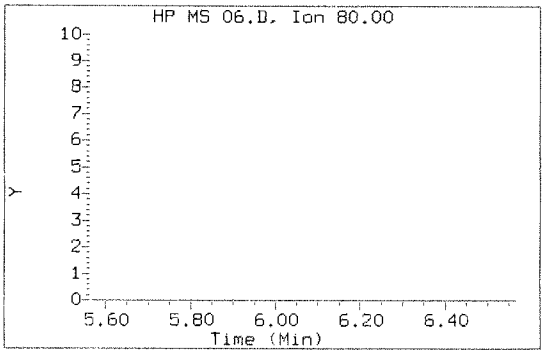
AFTER
MASS
94
AREA
716
HEIGHT
472
28-May-2024
13:05



BEFORE
MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
13:40
ALSHS
Server



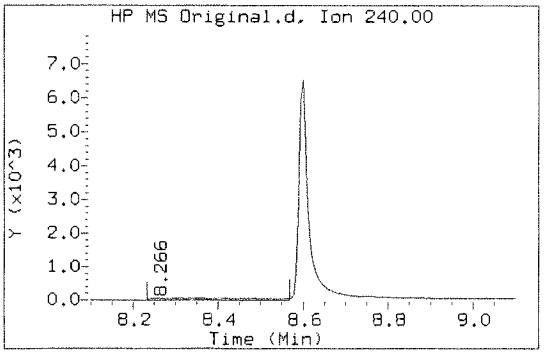
AFTER
MASS
80
AREA
0
HEIGHT
0
28-May-2024
13:05



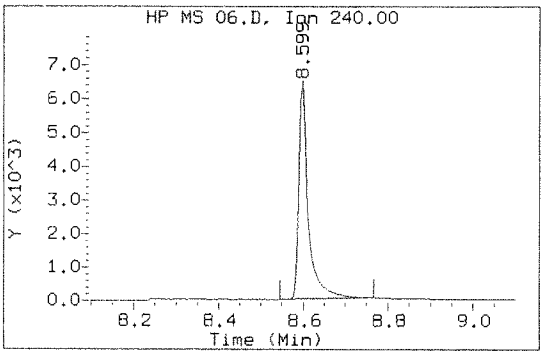
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
955
HEIGHT
50
18-Apr-2024
13:40
ALSHS
Server



AFTER
MASS
240
AREA
10029
HEIGHT
6473
28-May-2024
13:05

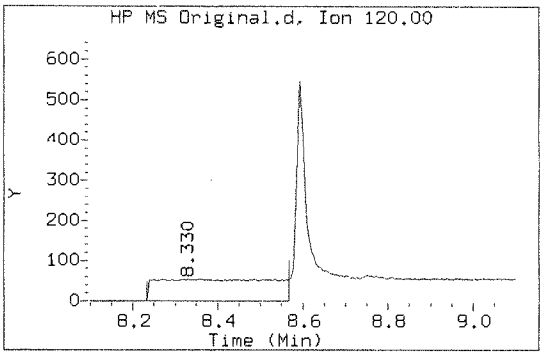


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

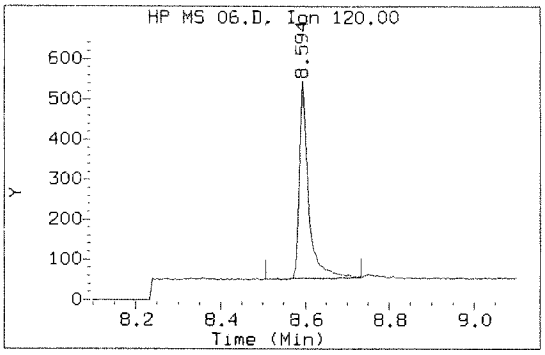
Chrysene-d12 (1719-03-5)

Reason Code:

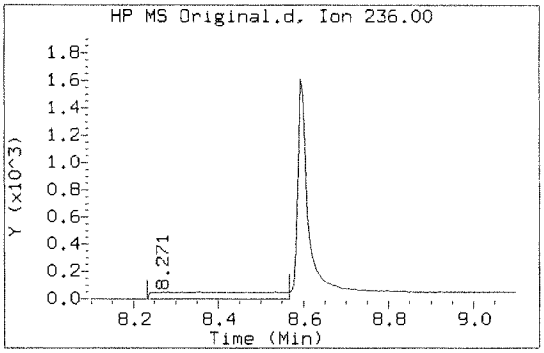
BEFORE
MASS
120
AREA
1034
HEIGHT
53
18-Apr-2024
13:40
ALSHS
Server



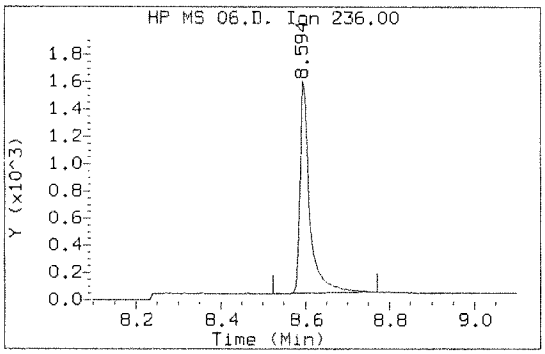
AFTER
MASS
120
AREA
729
HEIGHT
493
28-May-2024
13:05



BEFORE
MASS
236
AREA
955
HEIGHT
49
18-Apr-2024
13:40
ALSHS
Server



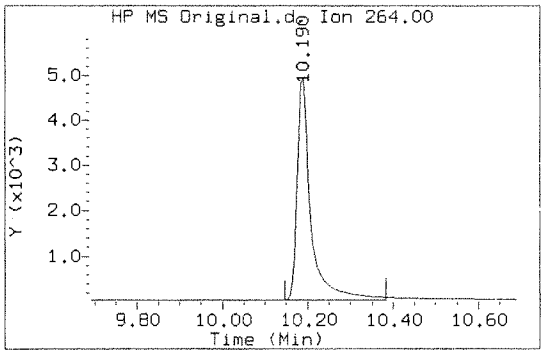
AFTER
MASS
236
AREA
2416
HEIGHT
1557
28-May-2024
13:05



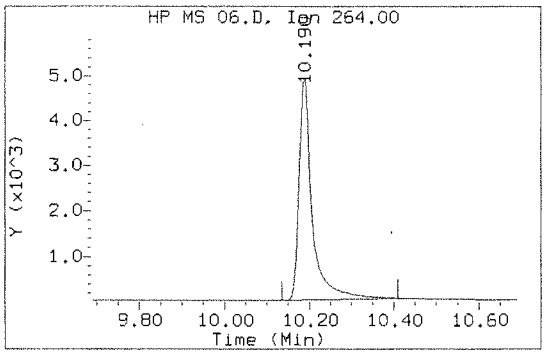
Perylene-d12 (1520-96-3)

Reason Code:

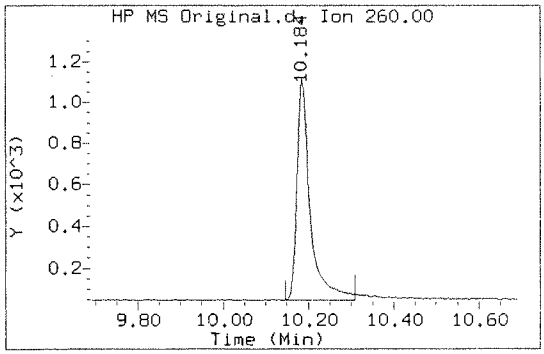
BEFORE
MASS
264
AREA
10683
HEIGHT
4875
18-Apr-2024
13:40
ALSHS
Server



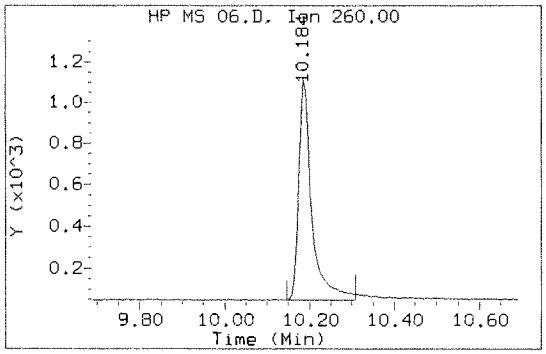
AFTER
MASS
264
AREA
10409
HEIGHT
4868
28-May-2024
13:05



BEFORE
MASS
260
AREA
2254
HEIGHT
1070
18-Apr-2024
13:40
ALSHS
Server



AFTER
MASS
260
AREA
2254
HEIGHT
1070
28-May-2024
13:05



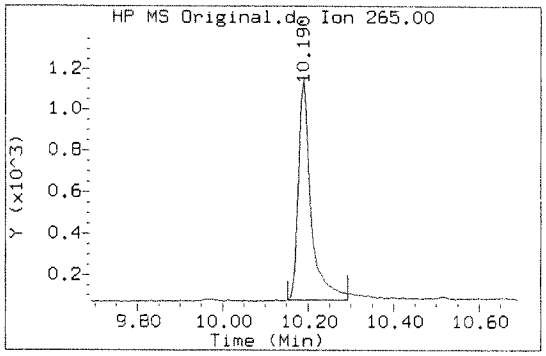
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

Perylene-d12 (1520-96-3)

Reason Code:

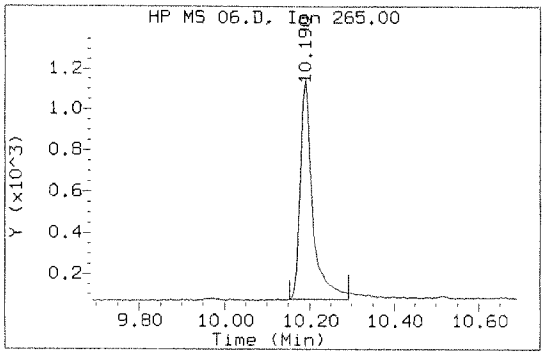
BEFORE

MASS
265
AREA
2161
HEIGHT
1074
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
265
AREA
2161
HEIGHT
1074
28-May-2024
13:05

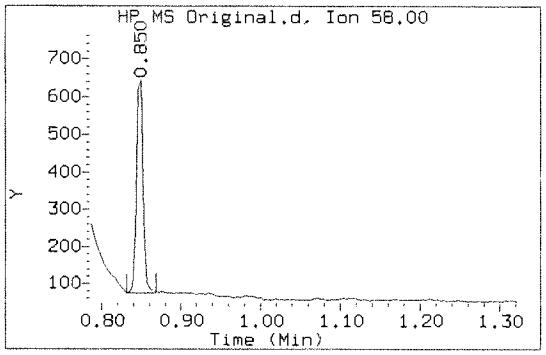


1,4-Dioxane ()

Reason Code:

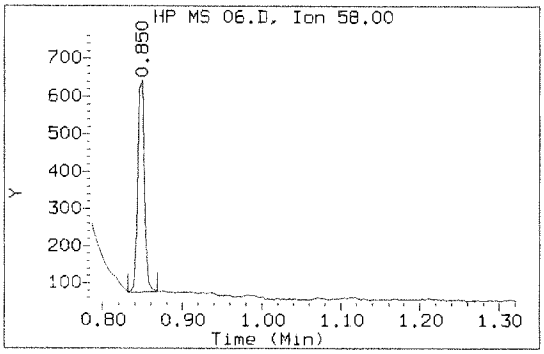
BEFORE

MASS
58
AREA
339
HEIGHT
569
18-Apr-2024
13:40
ALSHS
Server



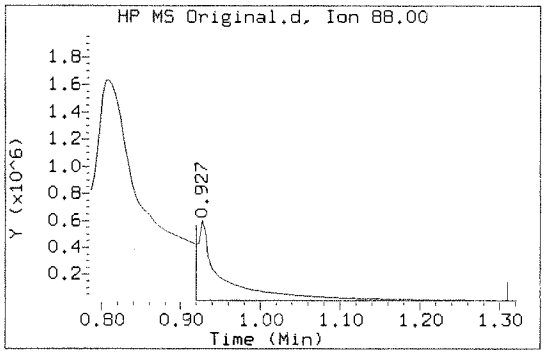
AFTER

MASS
58
AREA
339
HEIGHT
568
28-May-2024
13:05



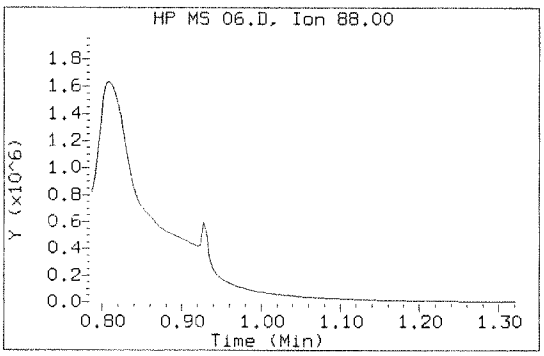
BEFORE

MASS
88
AREA
1337438
HEIGHT
596391
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
88
AREA
0
HEIGHT
0
28-May-2024
13:05

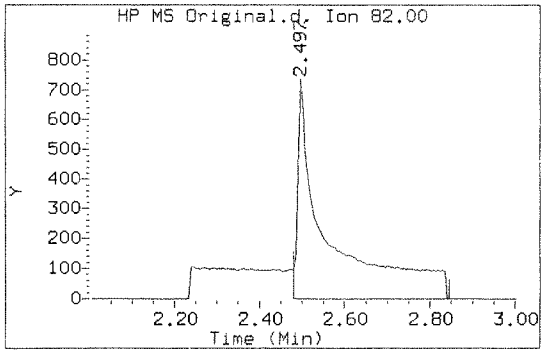


Nitrobenzene-d5 (4165-60-0)

Reason Code:

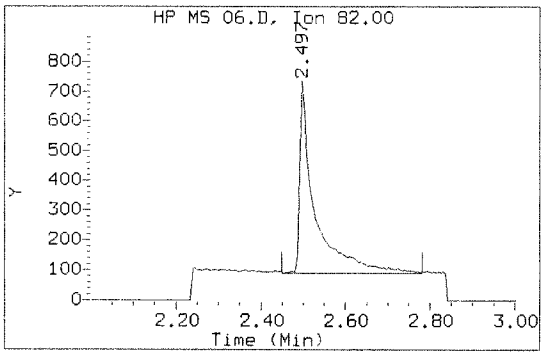
BEFORE

MASS
82
AREA
3516
HEIGHT
737
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
82
AREA
1589
HEIGHT
647
28-May-2024
13:05

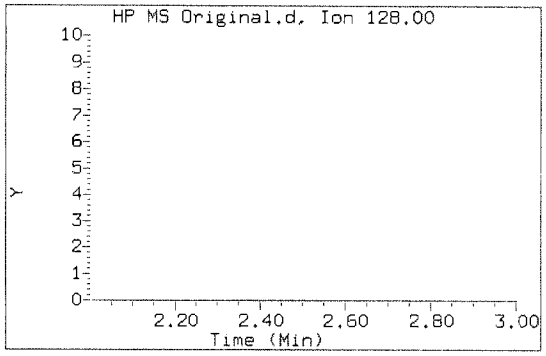


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

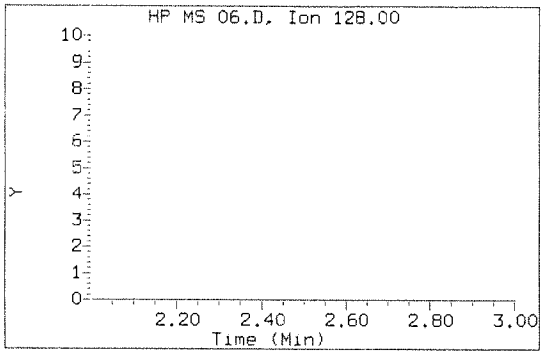
Nitrobenzene-d5 (4165-60-0)

Reason Code:

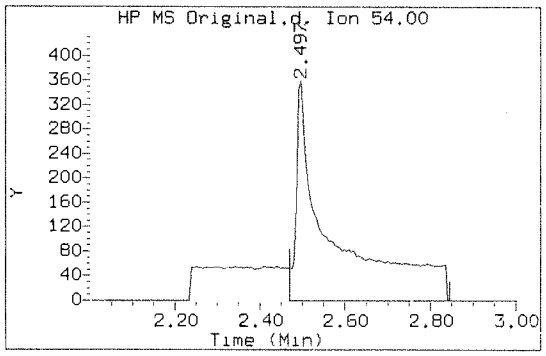
BEFORE
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
13:40
ALSHS
Server



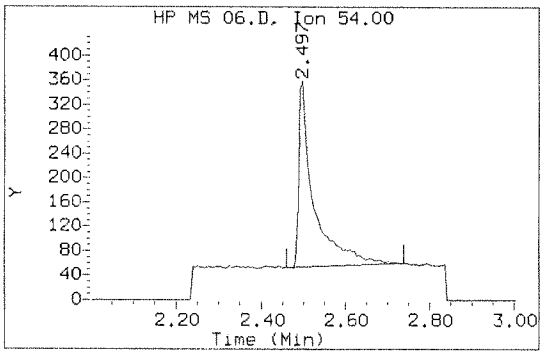
AFTER
MASS
128
AREA
0
HEIGHT
0
28-May-2024
13:05



BEFORE
MASS
54
AREA
1999
HEIGHT
359
18-Apr-2024
13:40
ALSHS
Server



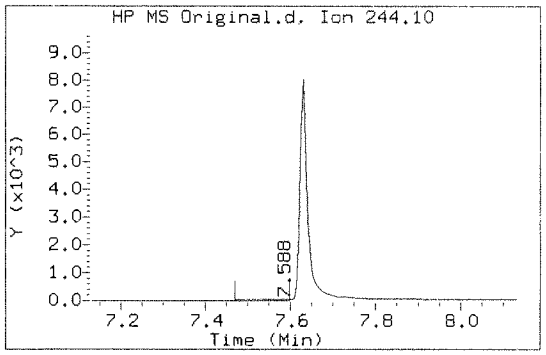
AFTER
MASS
54
AREA
745
HEIGHT
305
28-May-2024
13:05



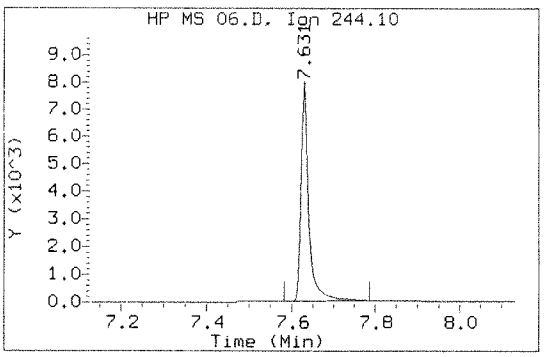
4-Terphenyl-d14 (1718-51-0)

Reason Code:

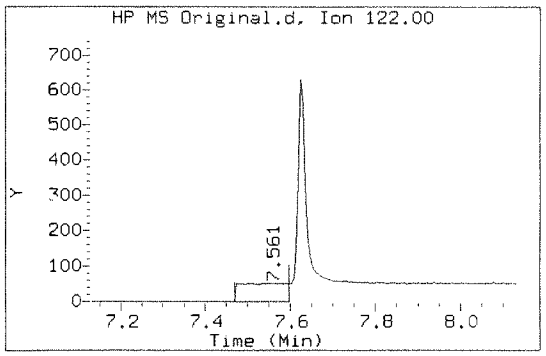
BEFORE
MASS
244.1
AREA
363
HEIGHT
48
18-Apr-2024
13:40
ALSHS
Server



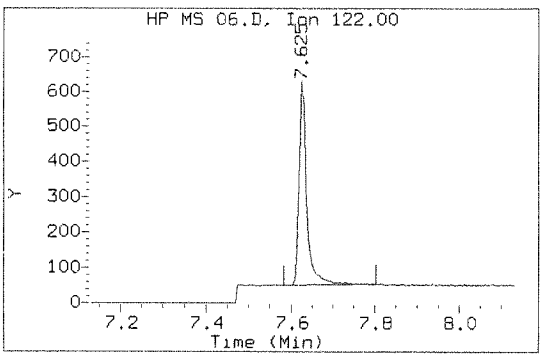
AFTER
MASS
244.1
AREA
10047
HEIGHT
7987
28-May-2024
13:05



BEFORE
MASS
122
AREA
394
HEIGHT
52
18-Apr-2024
13:40
ALSHS
Server



AFTER
MASS
122
AREA
741
HEIGHT
579
28-May-2024
13:05

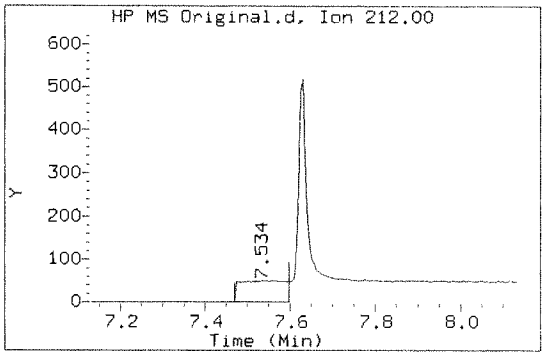


Data File . \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

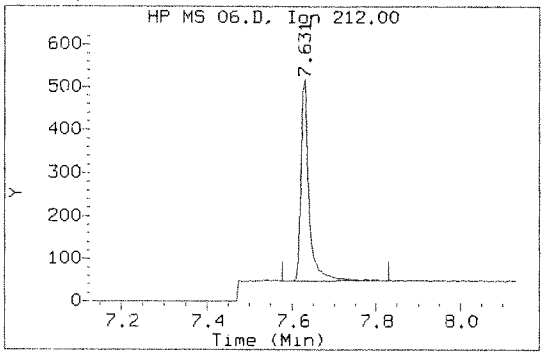
4-Terphenyl-d14 (1718-51-0)

Reason Code:

BEFORE
MASS
212
AREA
372
HEIGHT
49
18-Apr-2024
13:40
ALSHS
Server



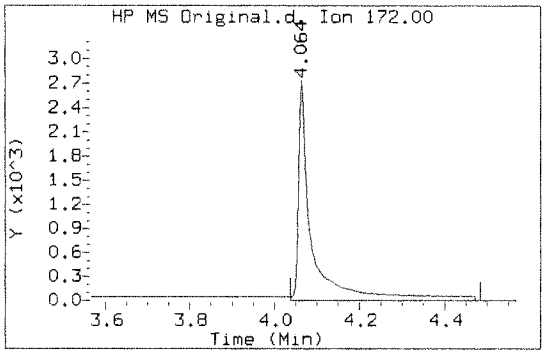
AFTER
MASS
212
AREA
623
HEIGHT
470
28-May-2024
13:05



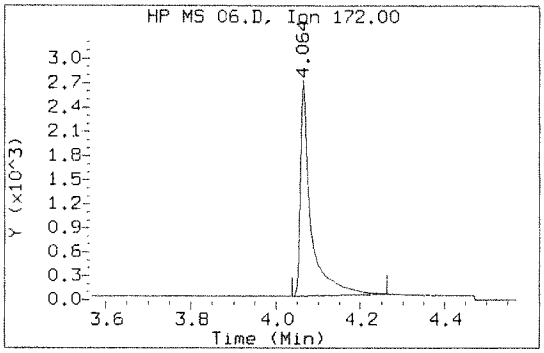
2-Fluorobiphenyl (321-60-8)

Reason Code:

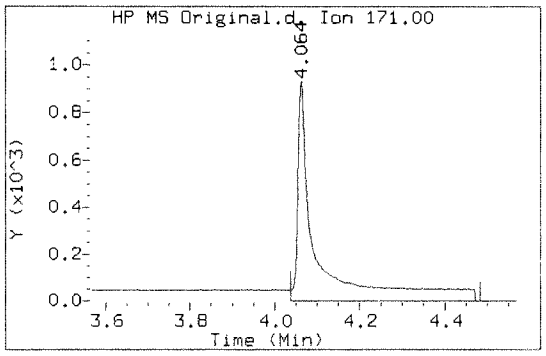
BEFORE
MASS
172
AREA
6214
HEIGHT
2735
18-Apr-2024
13:40
ALSHS
Server



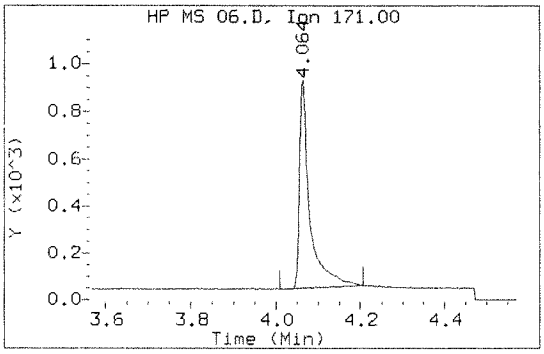
AFTER
MASS
172
AREA
4588
HEIGHT
2684
28-May-2024
13:05



BEFORE
MASS
171
AREA
2920
HEIGHT
933
18-Apr-2024
13:40
ALSHS
Server



AFTER
MASS
171
AREA
1481
HEIGHT
881
28-May-2024
13:05



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Lab Smp Id: 14DX-0.10
Inj Date : 18-APR-2024 13:42
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.10
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 13:42 Cal File: 07.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

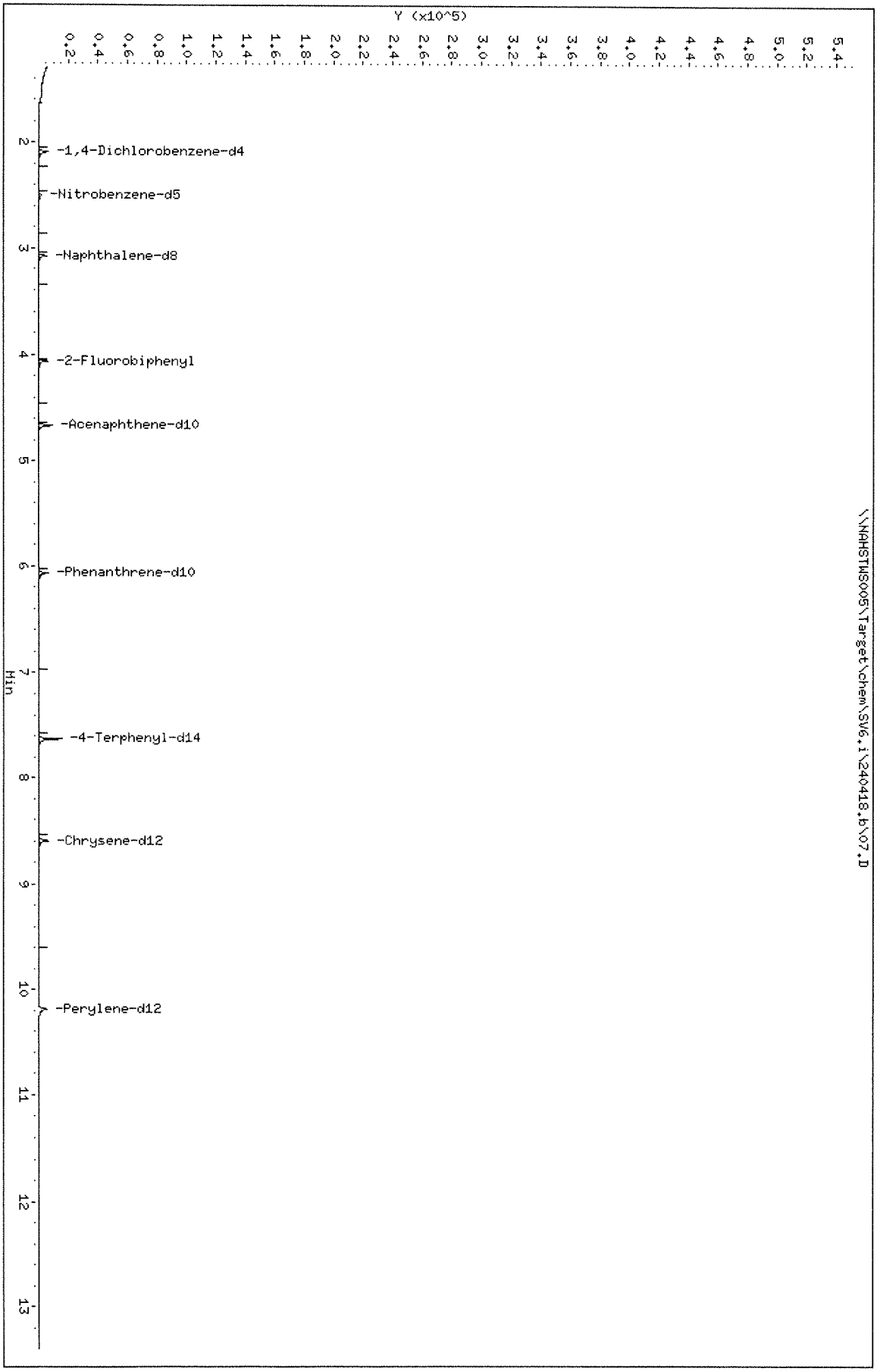
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.089	2.089	(1.000)	2318	0.10000	(aM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	7718	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.496	2.502	(0.812)	2452	0.10000	0.1058 (M)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	4530	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.063	4.067	(0.871)	7366	0.10000	0.1064 (M)
* 126 Phenanthrene-d10	188	6.065	6.065	(1.000)	8772	0.10000	(M)
* 182 Chrysene-d12	240	8.599	8.599	(1.000)	7453	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.887)	15672	0.10000	0.1032 (M)
* 198 Perylene-d12	264	10.189	10.189	(1.000)	7806	0.10000	
1 1,4-Dioxane	58	0.827	0.820	(0.396)	473	0.10000	0.09527 (QM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Date : 18-APR-2024 13:42
Client ID:
Sample Info: 14DX-0.10
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV6.i
Operator: LG
Column diameter: 0.28

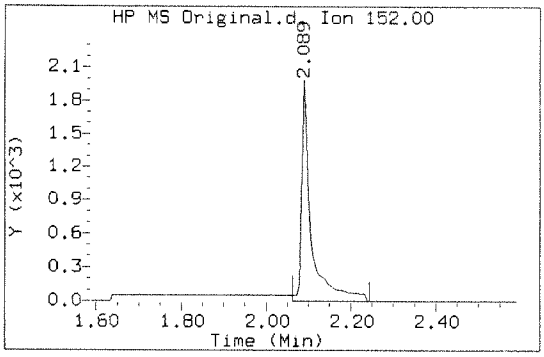


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

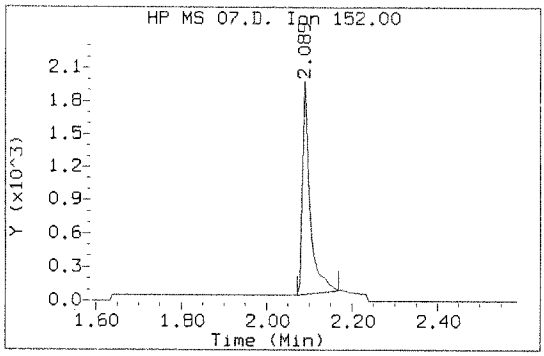
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

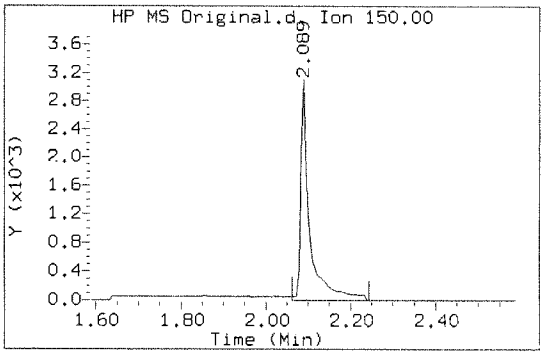
BEFORE
MASS
152
AREA
3091
HEIGHT
1986
18-Apr-2024
13:57
ALSHS
Server



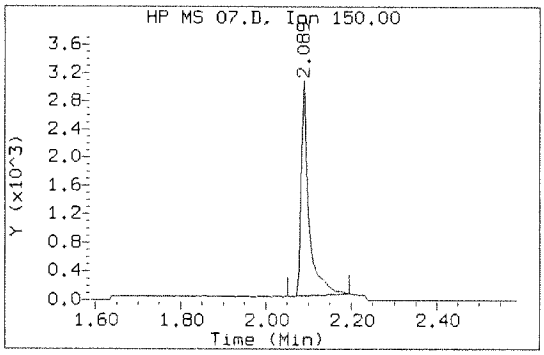
AFTER
MASS
152
AREA
2318
HEIGHT
1925
23-May-2024
08:54



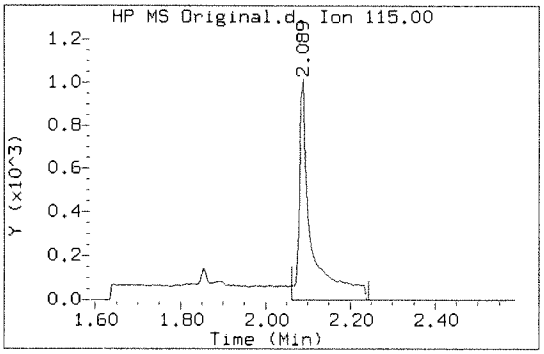
BEFORE
MASS
150
AREA
4519
HEIGHT
3105
18-Apr-2024
13:57
ALSHS
Server



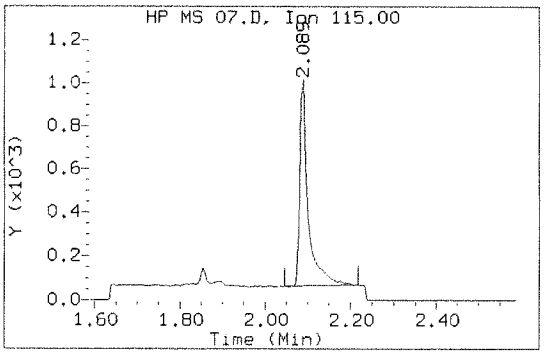
AFTER
MASS
150
AREA
3766
HEIGHT
3045
23-May-2024
08:54



BEFORE
MASS
115
AREA
1993
HEIGHT
1016
18-Apr-2024
13:57
ALSHS
Server



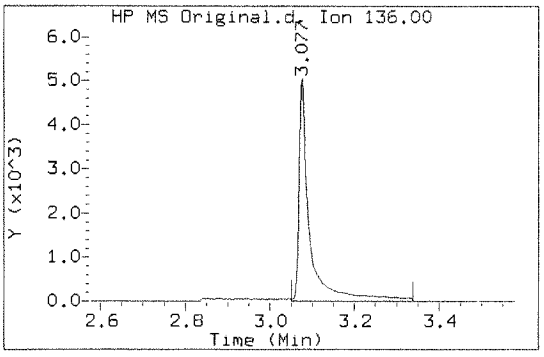
AFTER
MASS
115
AREA
1271
HEIGHT
950
23-May-2024
08:54



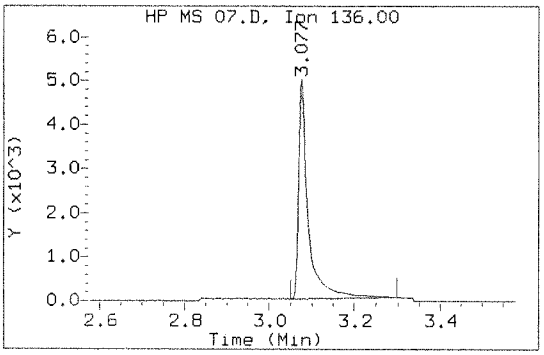
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
8891
HEIGHT
5045
18-Apr-2024
13:57
ALSHS
Server



AFTER
MASS
136
AREA
7718
HEIGHT
4990
23-May-2024
08:54

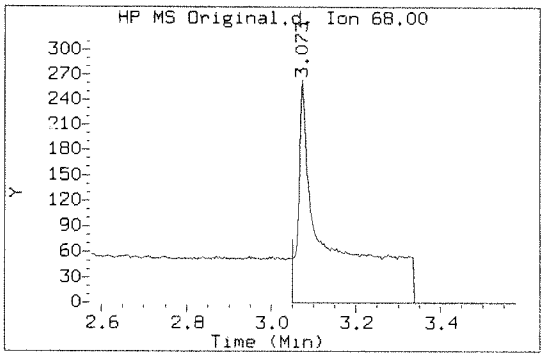


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

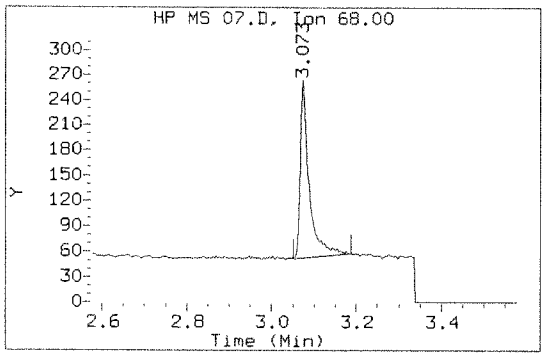
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
68
AREA
1251
HEIGHT
264
18-Apr-2024
13:57
ALSHS
Server



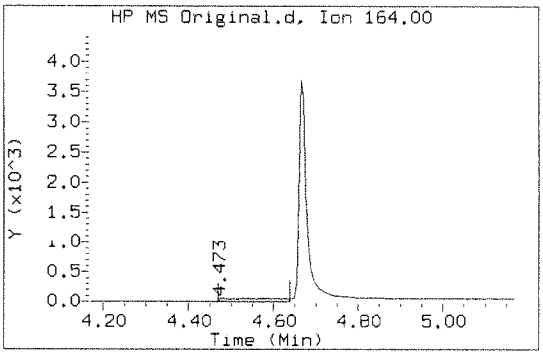
AFTER
MASS
68
AREA
296
HEIGHT
211
23-May-2024
08:54



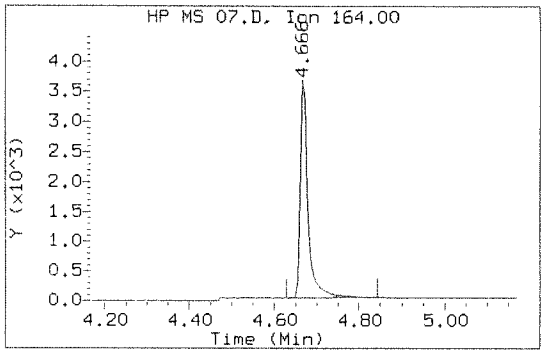
Acenaphthene-d10 (15067-26-2)

Reason Code:

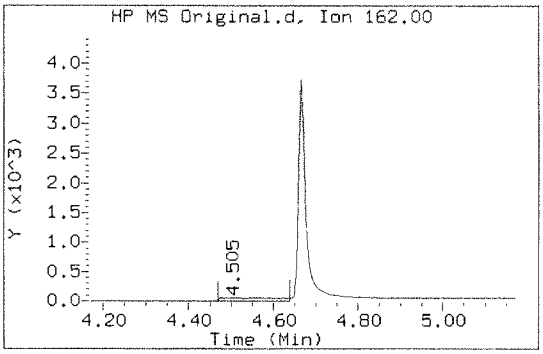
BEFORE
MASS
164
AREA
497
HEIGHT
50
18-Apr-2024
13:57
ALSHS
Server



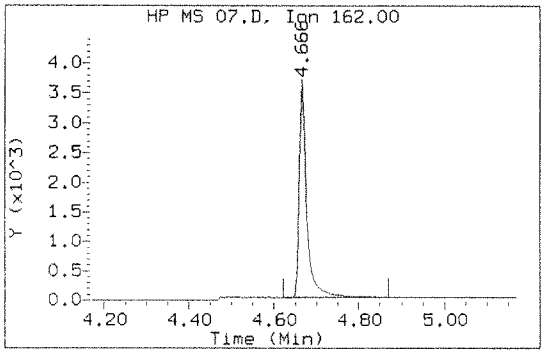
AFTER
MASS
164
AREA
4530
HEIGHT
3643
23-May-2024
08:54



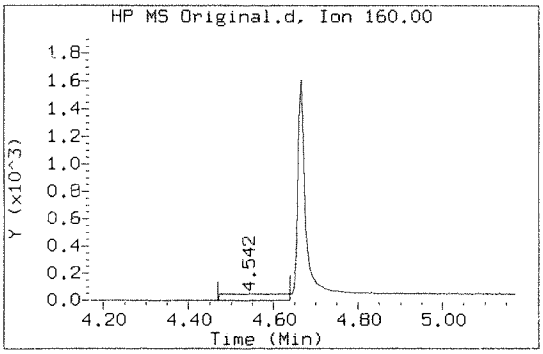
BEFORE
MASS
162
AREA
500
HEIGHT
53
18-Apr-2024
13:57
ALSHS
Server



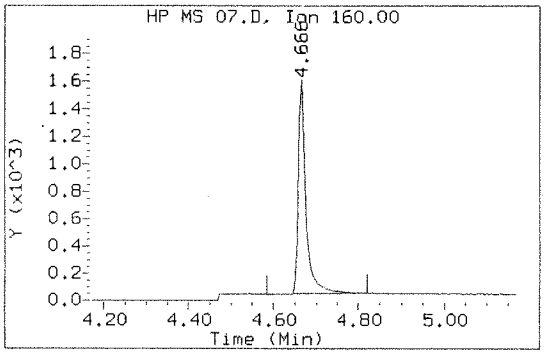
AFTER
MASS
162
AREA
4355
HEIGHT
3679
23-May-2024
08:54



BEFORE
MASS
160
AREA
483
HEIGHT
49
18-Apr-2024
13:57
ALSHS
Server



AFTER
MASS
160
AREA
1883
HEIGHT
1560
23-May-2024
08:54

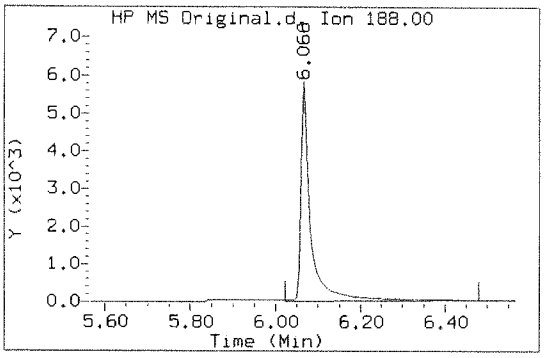


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

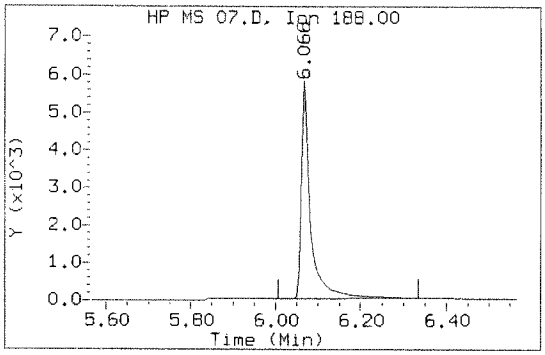
Phenanthrene-d10 (1517-22-2)

Reason Code:

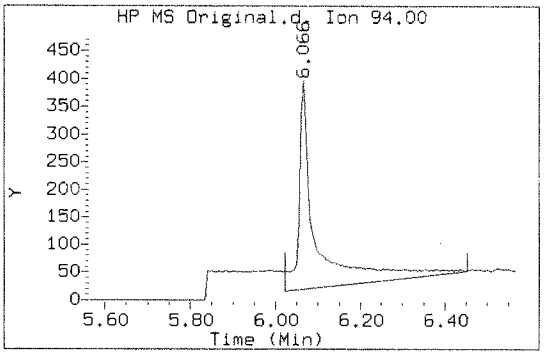
BEFORE
MASS
188
AREA
9529
HEIGHT
5821
18-Apr-2024
13:57
ALSHS
Server



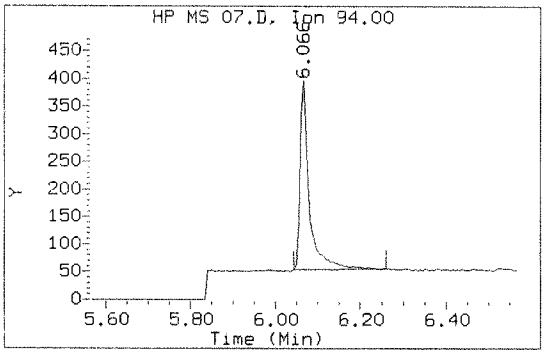
AFTER
MASS
188
AREA
8772
HEIGHT
5788
23-May-2024
08:54



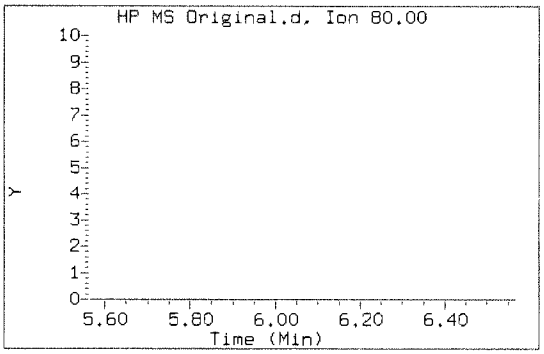
BEFORE
MASS
94
AREA
1042
HEIGHT
377
18-Apr-2024
13:57
ALSHS
Server



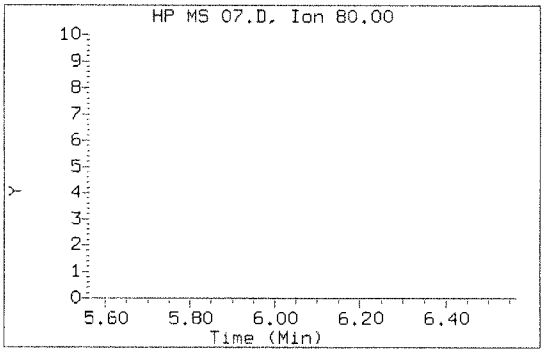
AFTER
MASS
94
AREA
518
HEIGHT
342
23-May-2024
08:54



BEFORE
MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
13:57
ALSHS
Server



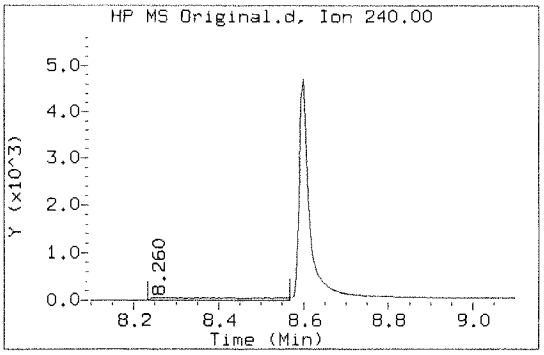
AFTER
MASS
80
AREA
0
HEIGHT
0
23-May-2024
08:54



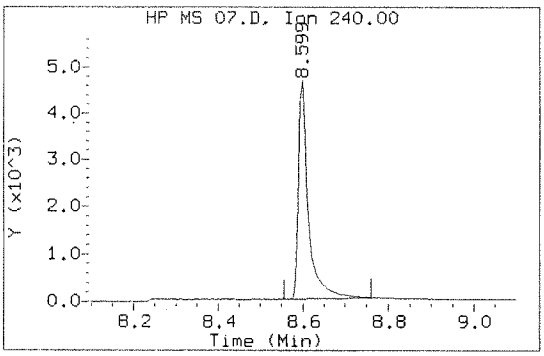
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
957
HEIGHT
50
18-Apr-2024
13:57
ALSHS
Server



AFTER
MASS
240
AREA
7453
HEIGHT
4662
23-May-2024
08:54

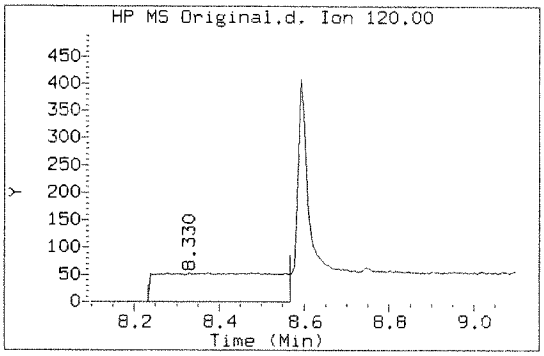


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

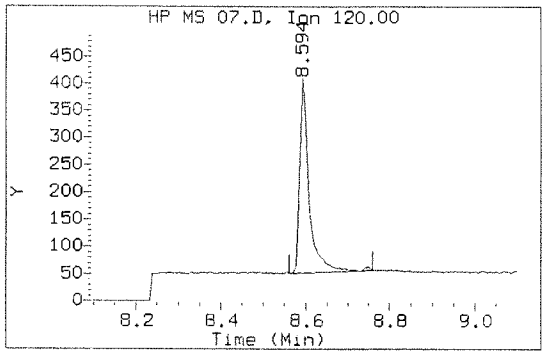
Chrysene-d12 (1719-03-5)

Reason Code:

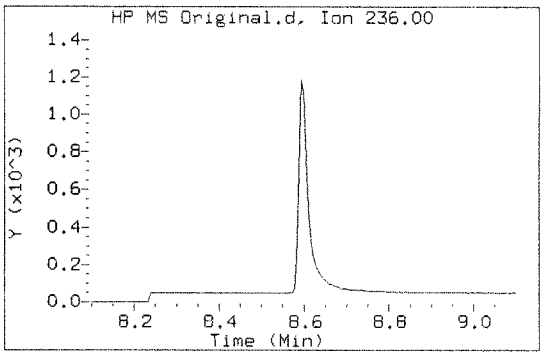
BEFORE
MASS
120
AREA
1029
HEIGHT
53
18-Apr-2024
13:57
ALSHS
Server



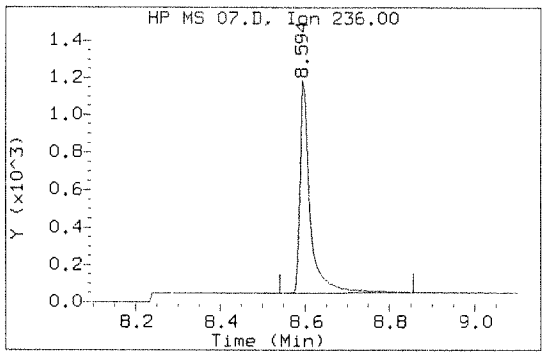
AFTER
MASS
120
AREA
541
HEIGHT
357
23-May-2024
08:54



BEFORE
MASS
236
AREA
0
HEIGHT
0
18-Apr-2024
13:57
ALSHS
Server



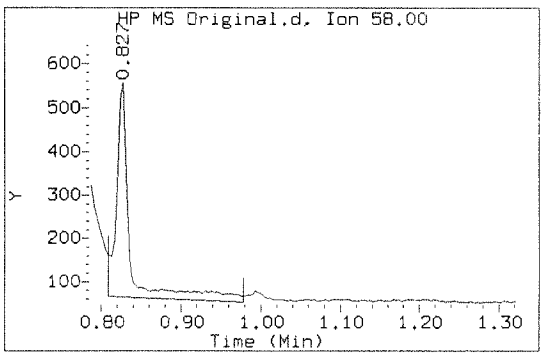
AFTER
MASS
236
AREA
1875
HEIGHT
1139
23-May-2024
08:54



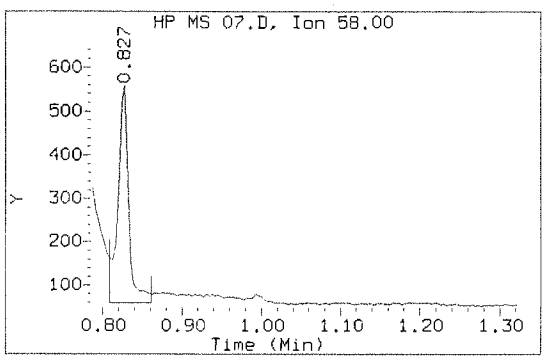
1,4-Dioxane ()

Reason Code:

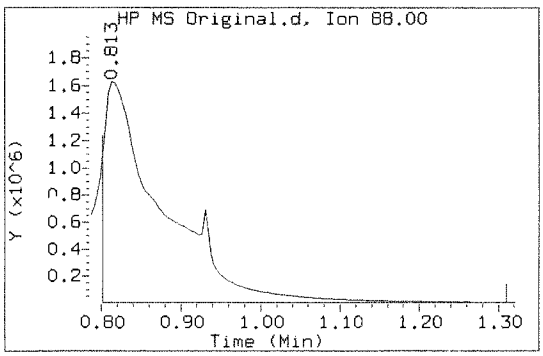
BEFORE
MASS
58
AREA
589
HEIGHT
493
18-Apr-2024
13:57
ALSHS
Server



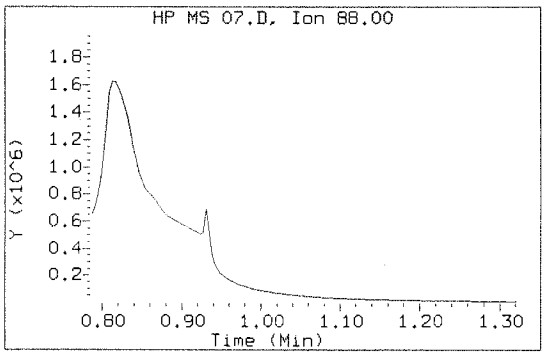
AFTER
MASS
58
AREA
473
HEIGHT
499
23-May-2024
08:54



BEFORE
MASS
88
AREA
8266937
HEIGHT
1620371
18-Apr-2024
13:57
ALSHS
Server



AFTER
MASS
88
AREA
8281553
HEIGHT
1620838
23-May-2024
08:54

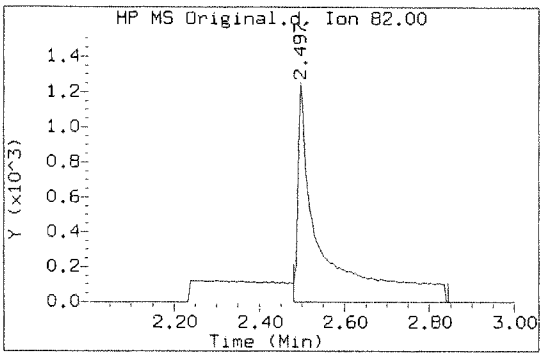


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

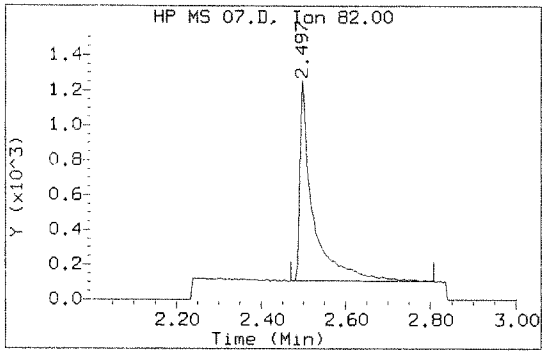
Nitrobenzene-d5 (4165-60-0)

Reason Code:

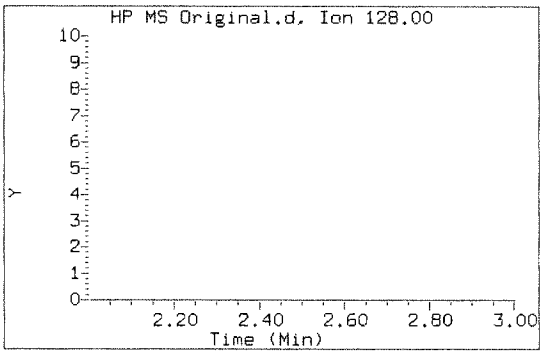
BEFORE
MASS
82
AREA
4733
HEIGHT
1257
18-Apr-2024
13:57
ALSHS
Server



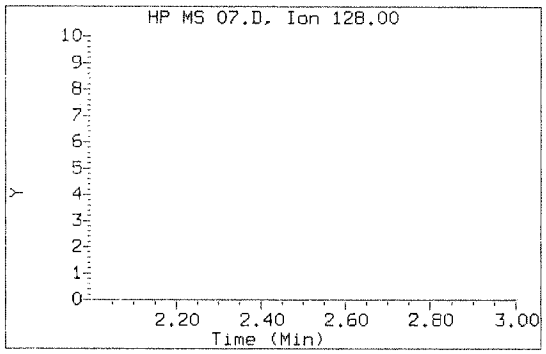
AFTER
MASS
82
AREA
2452
HEIGHT
1148
23-May-2024
08:54



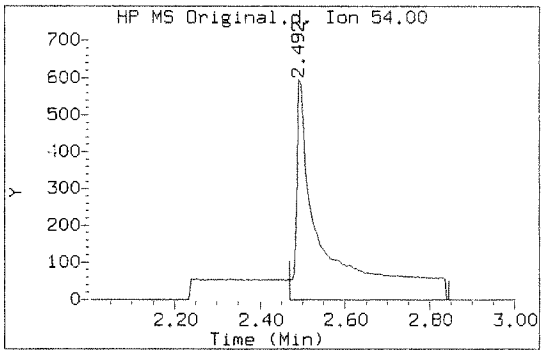
BEFORE
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
13:57
ALSHS
Server



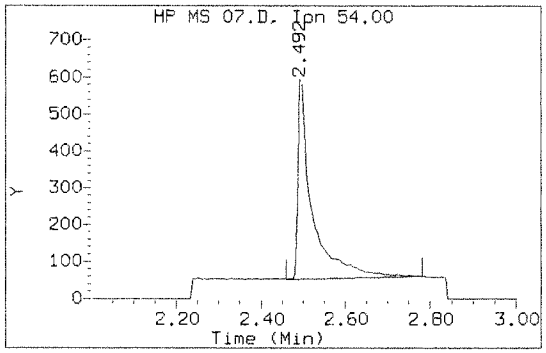
AFTER
MASS
128
AREA
0
HEIGHT
0
23-May-2024
08:54



BEFORE
MASS
54
AREA
2506
HEIGHT
594
18-Apr-2024
13:57
ALSHS
Server



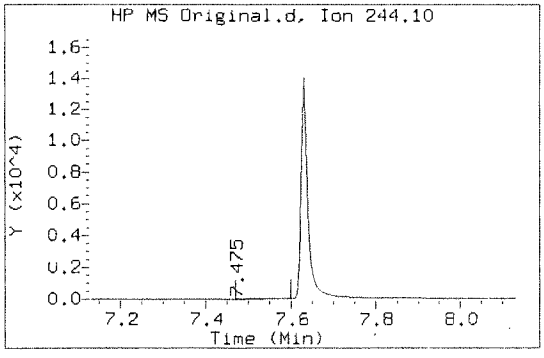
AFTER
MASS
54
AREA
1263
HEIGHT
541
23-May-2024
08:54



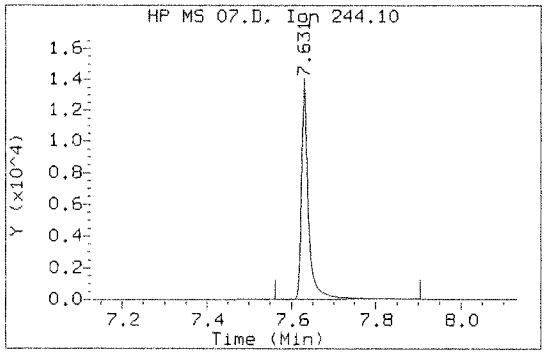
4-Terphenyl-d14 (1718-51-0)

Reason Code:

BEFORE
MASS
244.1
AREA
172
HEIGHT
45
18-Apr-2024
13:57
ALSHS
Server



AFTER
MASS
244.1
AREA
15672
HEIGHT
14035
23-May-2024
08:54

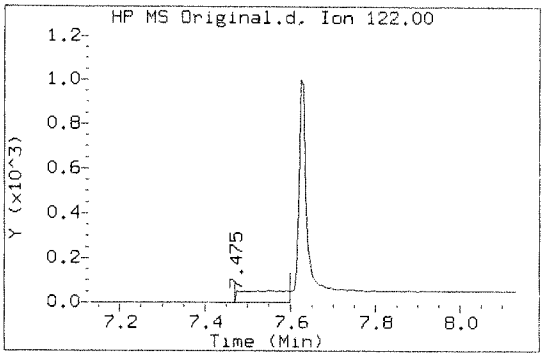


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

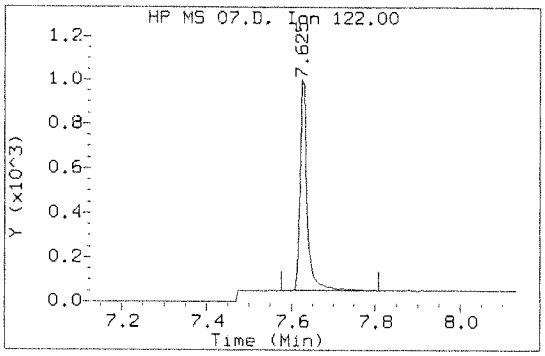
4-Terphenyl-d14 (1718-51-0)

Reason Code:

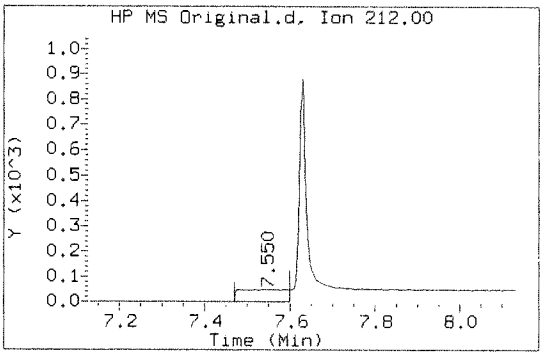
BEFORE
MASS
122
AREA
389
HEIGHT
51
18-Apr-2024
13:57
ALSHS
Server



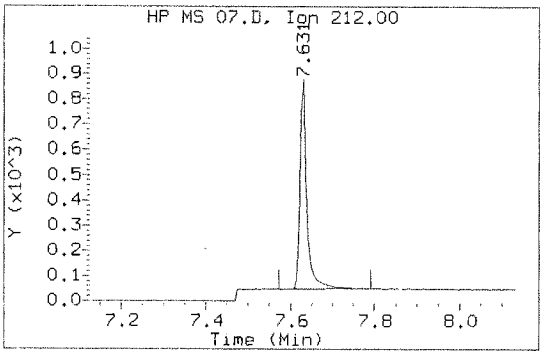
AFTER
MASS
122
AREA
1143
HEIGHT
950
23-May-2024
08:54



BEFORE
MASS
212
AREA
368
HEIGHT
49
18-Apr-2024
13:57
ALSHS
Server



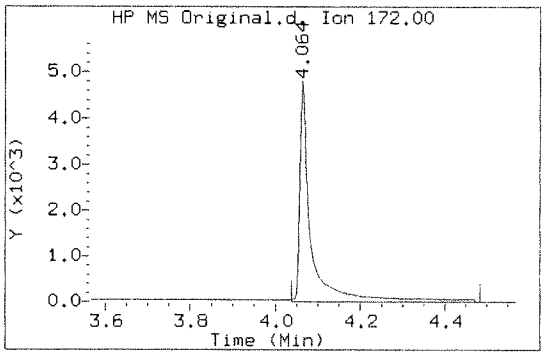
AFTER
MASS
212
AREA
942
HEIGHT
831
23-May-2024
08:54



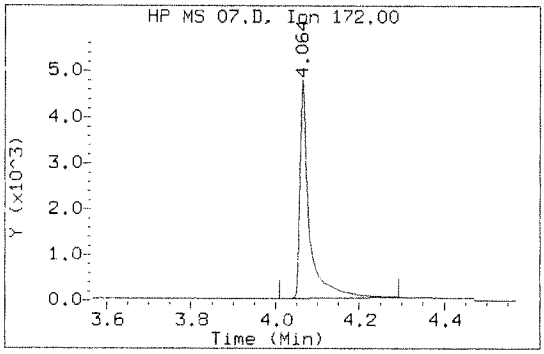
2-Fluorobiphenyl (321-60-8)

Reason Code:

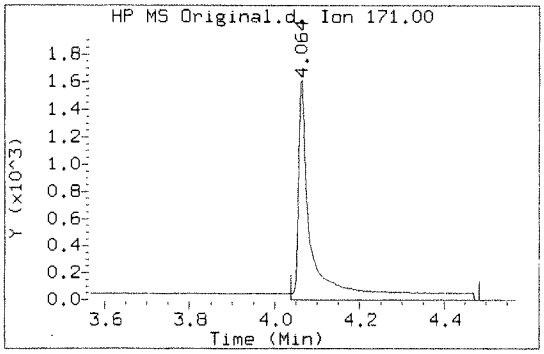
BEFORE
MASS
172
AREA
9042
HEIGHT
4809
18-Apr-2024
13:57
ALSHS
Server



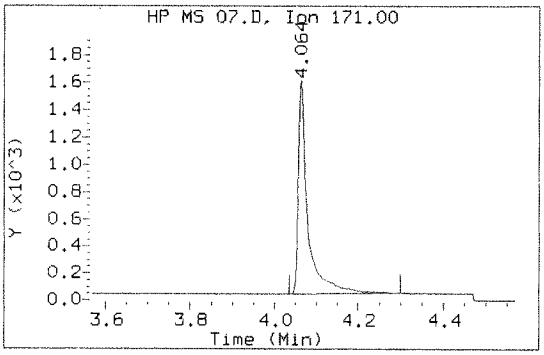
AFTER
MASS
172
AREA
7366
HEIGHT
4757
23-May-2024
08:54



BEFORE
MASS
171
AREA
3879
HEIGHT
1615
18-Apr-2024
13:57
ALSHS
Server



AFTER
MASS
171
AREA
2501
HEIGHT
1566
23-May-2024
08:54



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Lab Smp Id: 14DX-0.15
Inj Date : 18-APR-2024 14:00
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.15
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 14:00 Cal File: 08.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.094	2.089	(1.000)	3084	0.10000	(aM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	9604	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.497	2.502	(0.812)	4499	0.15000	0.1560 (AM)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	5448	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.064	4.067	(0.871)	13067	0.15000	0.1569 (AM)
* 126 Phenanthrene-d10	188	6.056	6.065	(1.000)	10645	0.10000	(M)
* 182 Chrysene-d12	240	8.599	8.599	(1.000)	8954	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.887)	27519	0.15000	0.1509 (AM)
* 198 Perylene-d12	264	10.189	10.189	(1.000)	9228	0.10000	
1 1,4-Dioxane	58	0.842	0.820	(0.402)	984	0.15000	0.1490 (QM)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D

Date : 18-APR-2024 14:00

Client ID:

Instrument: SV6.i

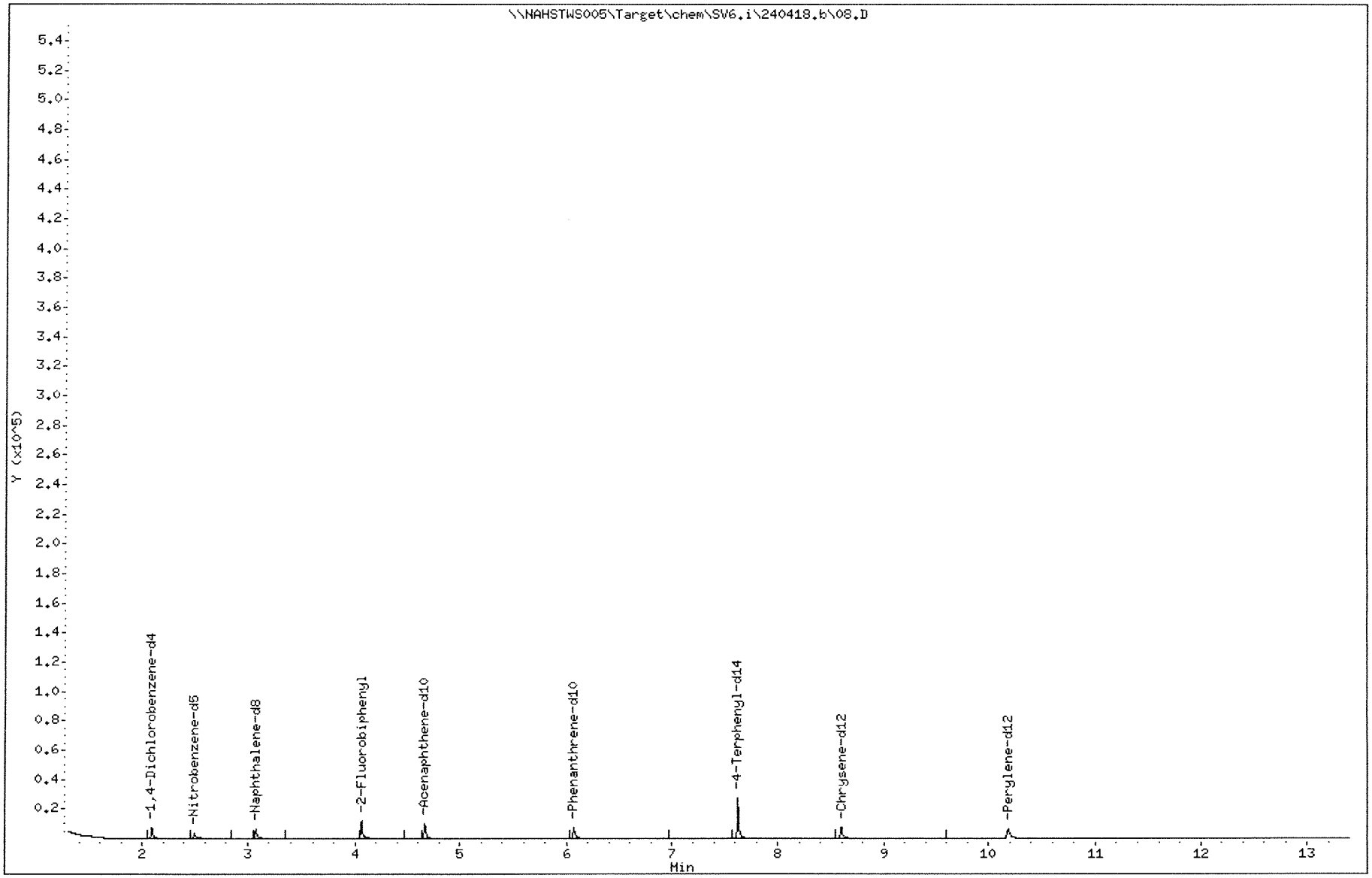
Sample Info: 14DX-0.15

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

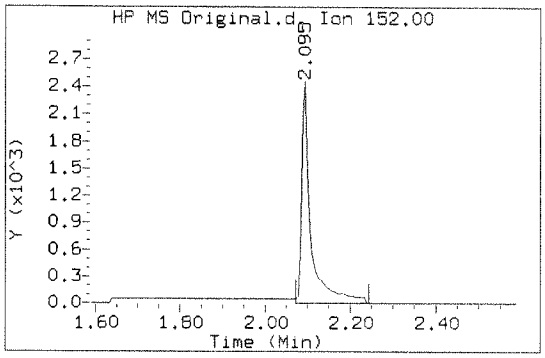


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

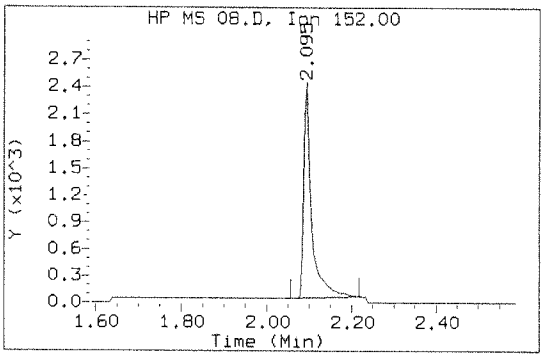
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

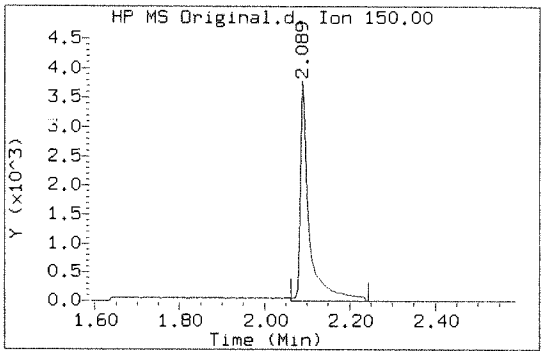
BEFORE
MASS
152
AREA
3705
HEIGHT
2456
18-Apr-2024
14:16
ALSHS
Server



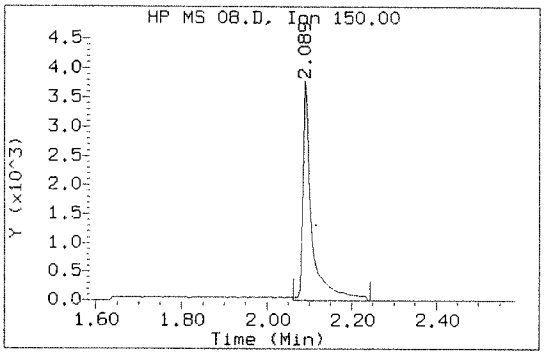
AFTER
MASS
152
AREA
3084
HEIGHT
2400
28-May-2024
13:05



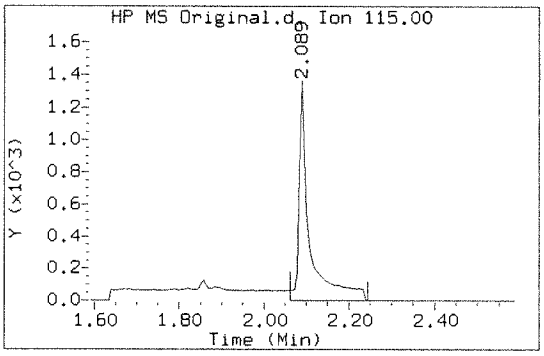
BEFORE
MASS
150
AREA
5535
HEIGHT
3786
18-Apr-2024
14:16
ALSHS
Server



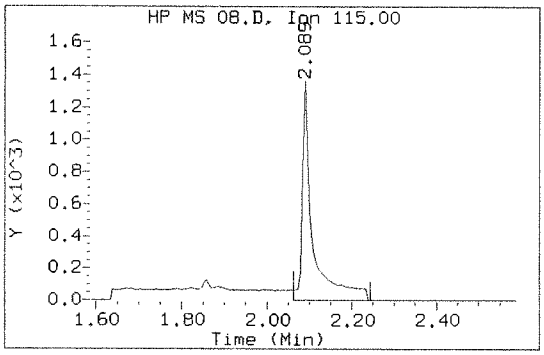
AFTER
MASS
150
AREA
5535
HEIGHT
3786
28-May-2024
13:05



BEFORE
MASS
115
AREA
2326
HEIGHT
1363
18-Apr-2024
14:16
ALSHS
Server



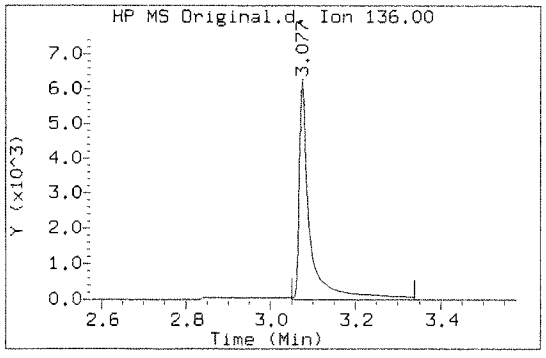
AFTER
MASS
115
AREA
2326
HEIGHT
1363
28-May-2024
13:05



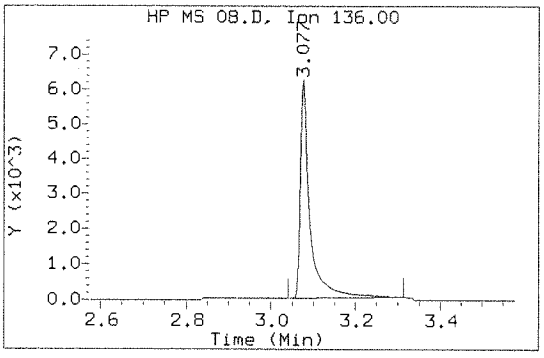
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
10787
HEIGHT
6291
18-Apr-2024
14:16
ALSHS
Server



AFTER
MASS
136
AREA
9604
HEIGHT
6235
28-May-2024
13:05

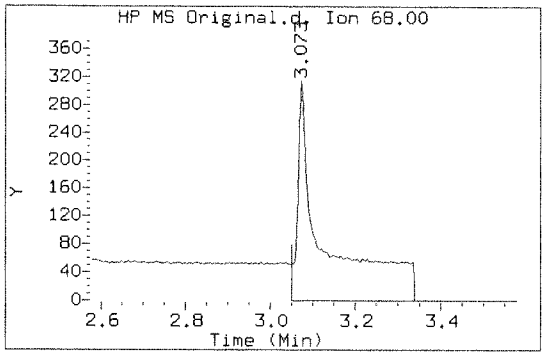


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

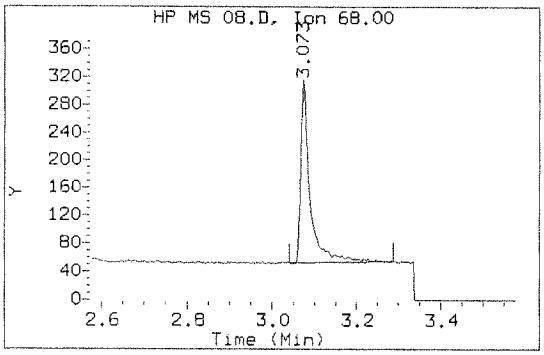
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
68
AREA
1324
HEIGHT
315
18-Apr-2024
14:16
ALSHS
Server



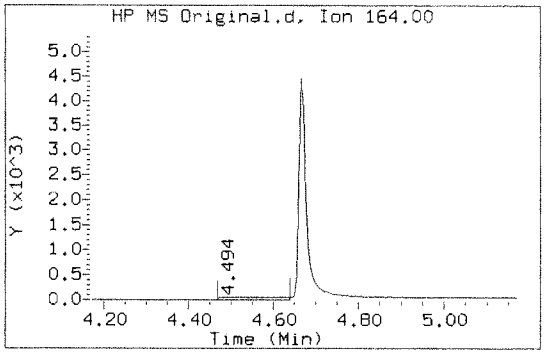
AFTER
MASS
68
AREA
389
HEIGHT
261
28-May-2024
13:05



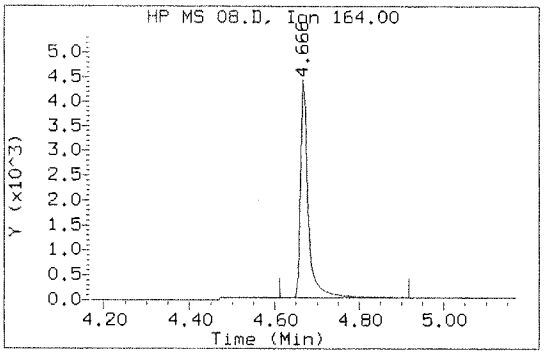
Acenaphthene-d10 (15067-26-2)

Reason Code:

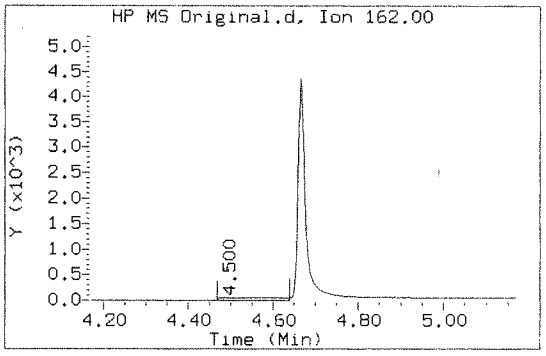
BEFORE
MASS
164
AREA
496
HEIGHT
50
18-Apr-2024
14:16
ALSHS
Server



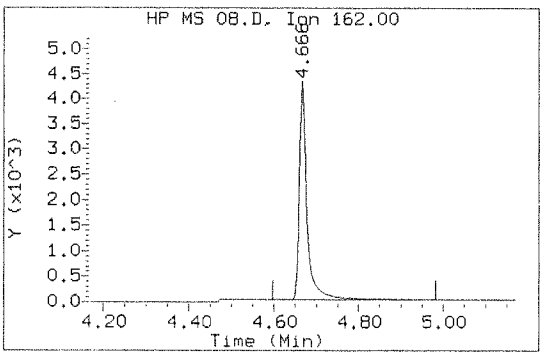
AFTER
MASS
164
AREA
5448
HEIGHT
4411
28-May-2024
13:05



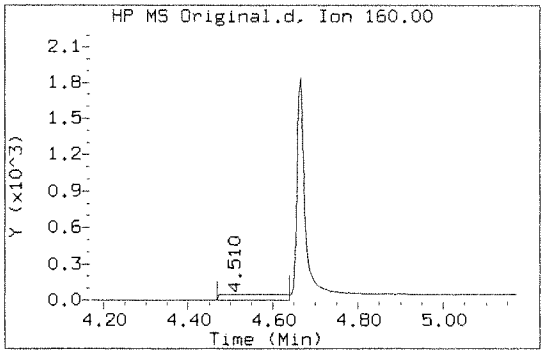
BEFORE
MASS
162
AREA
496
HEIGHT
52
18-Apr-2024
14:16
ALSHS
Server



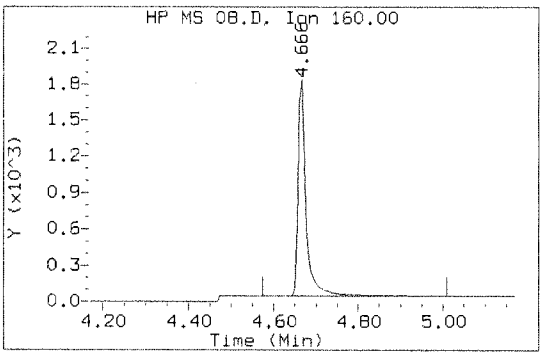
AFTER
MASS
162
AREA
5277
HEIGHT
4319
28-May-2024
13:05



BEFORE
MASS
160
AREA
482
HEIGHT
48
18-Apr-2024
14:16
ALSHS
Server



AFTER
MASS
160
AREA
2305
HEIGHT
1792
28-May-2024
13:05

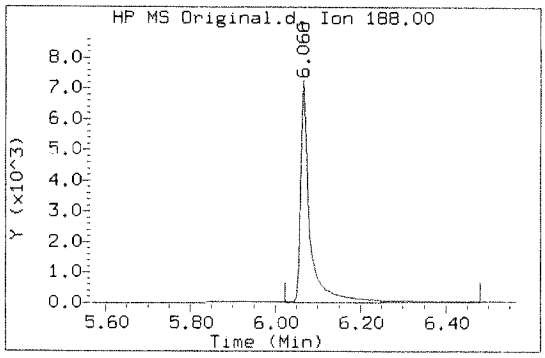


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

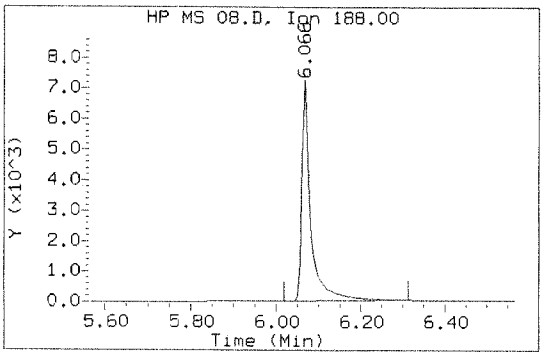
Phenanthrene-d10 (1517-22-2)

Reason Code:

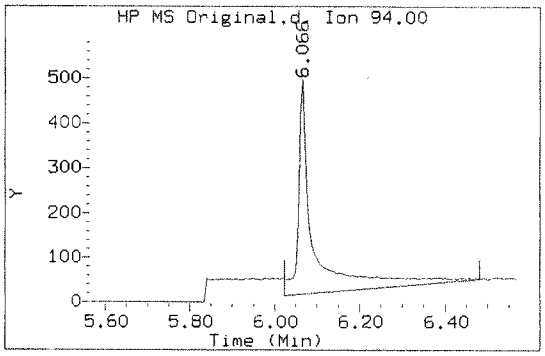
BEFORE
MASS
188
AREA
11494
HEIGHT
7257
18-Apr-2024
14:16
ALSHS
Server



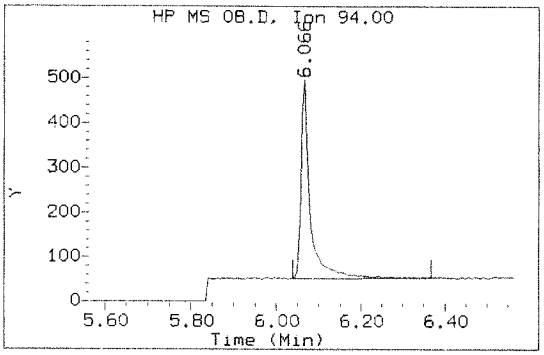
AFTER
MASS
188
AREA
10645
HEIGHT
7224
28-May-2024
13:05



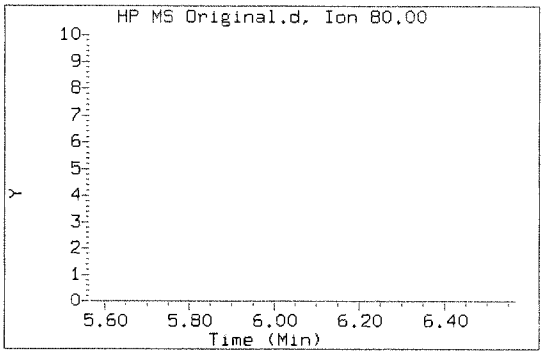
BEFORE
MASS
94
AREA
1207
HEIGHT
478
18-Apr-2024
14:16
ALSHS
Server



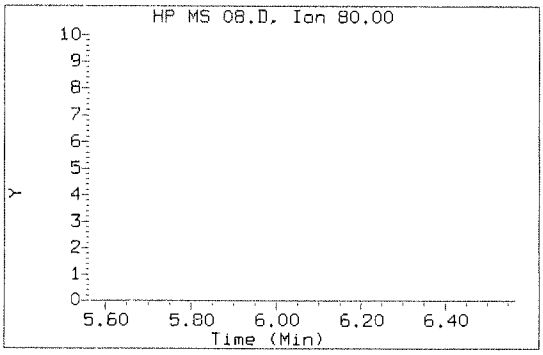
AFTER
MASS
94
AREA
674
HEIGHT
444
28-May-2024
13:05



BEFORE
MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
14:16
ALSHS
Server



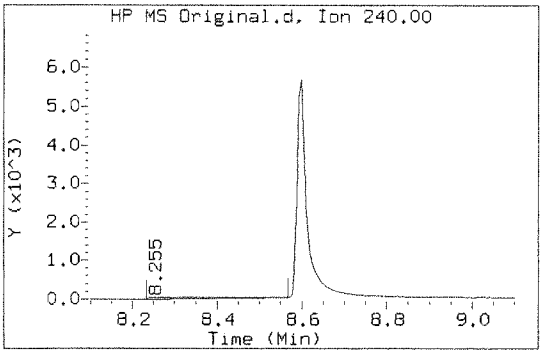
AFTER
MASS
80
AREA
0
HEIGHT
0
28-May-2024
13:05



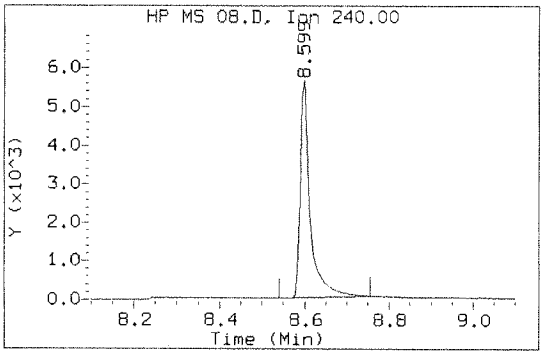
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
453
HEIGHT
46
18-Apr-2024
14:16
ALSHS
Server



AFTER
MASS
240
AREA
8954
HEIGHT
5618
28-May-2024
13:05

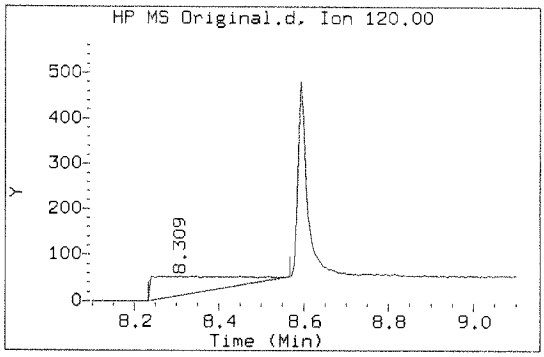


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

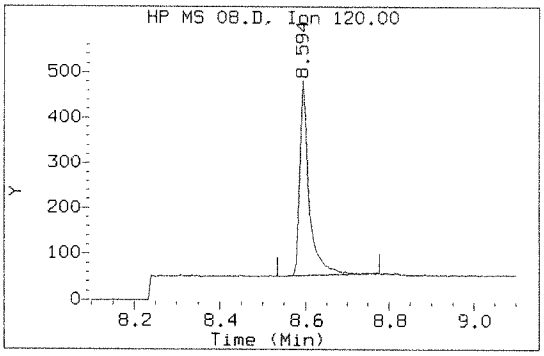
Chrysene-d12 (1719-03-5)

Reason Code:

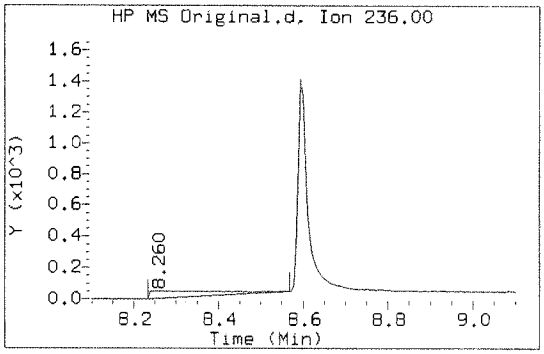
BEFORE
MASS
120
AREA
491
HEIGHT
41
18-Apr-2024
14:16
ALSHS
Server



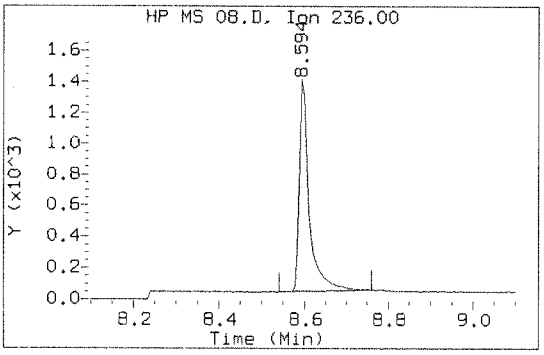
AFTER
MASS
120
AREA
640
HEIGHT
429
28-May-2024
13:05



BEFORE
MASS
236
AREA
459
HEIGHT
45
18-Apr-2024
14:16
ALSHS
Server



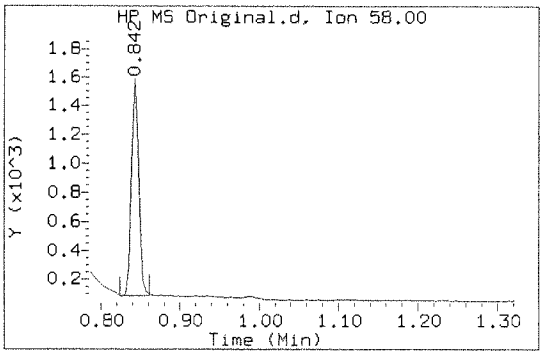
AFTER
MASS
236
AREA
2175
HEIGHT
1364
28-May-2024
13:05



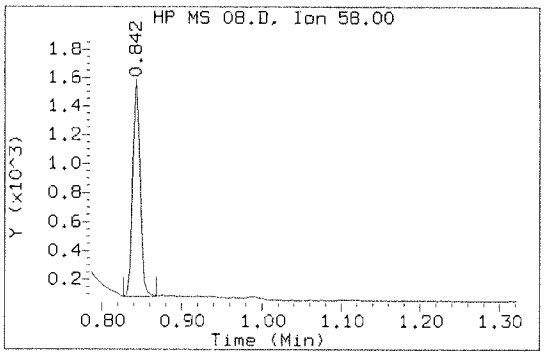
1,4-Dioxane ()

Reason Code:

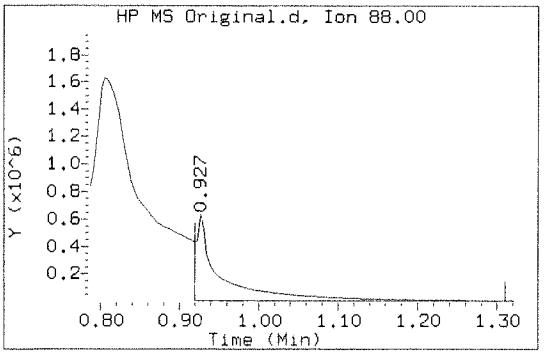
BEFORE
MASS
58
AREA
972
HEIGHT
1502
18-Apr-2024
14:16
ALSHS
Server



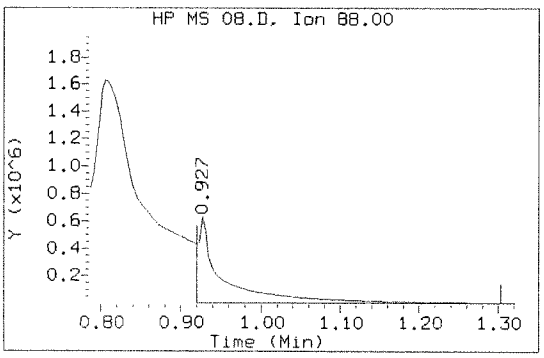
AFTER
MASS
58
AREA
984
HEIGHT
1506
28-May-2024
13:05



BEFORE
MASS
88
AREA
1391687
HEIGHT
630804
18-Apr-2024
14:16
ALSHS
Server



AFTER
MASS
88
AREA
1385982
HEIGHT
630559
28-May-2024
13:05

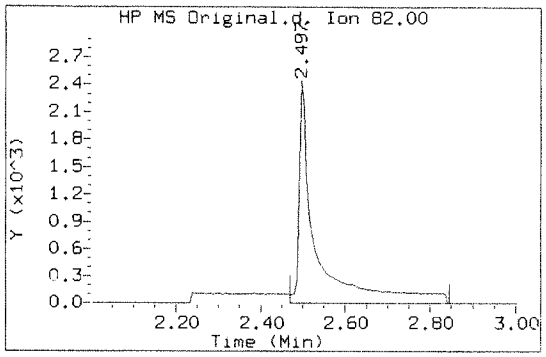


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

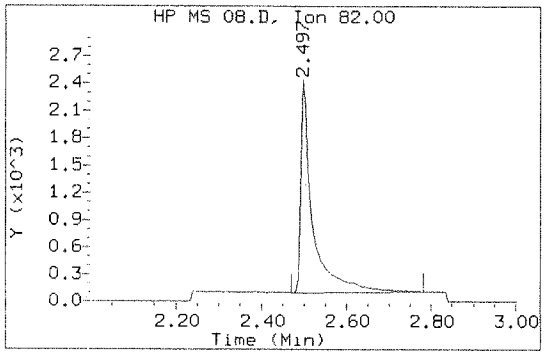
Nitrobenzene-d5 (4165-60-0)

Reason Code:

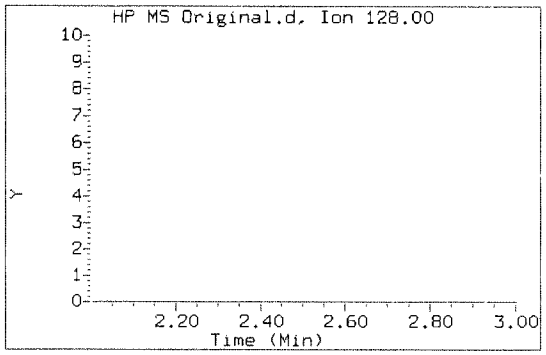
BEFORE
MASS
82
AREA
6726
HEIGHT
2444
18-Apr-2024
14:16
ALSHS
Server



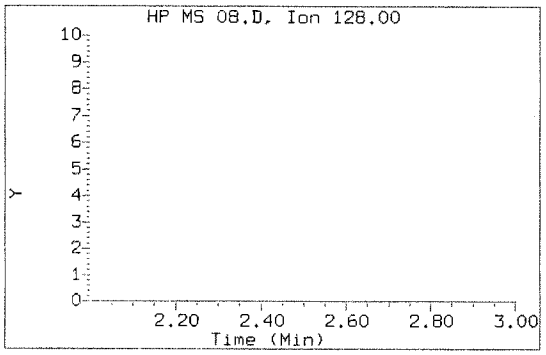
AFTER
MASS
82
AREA
4499
HEIGHT
2346
28-May-2024
13:05



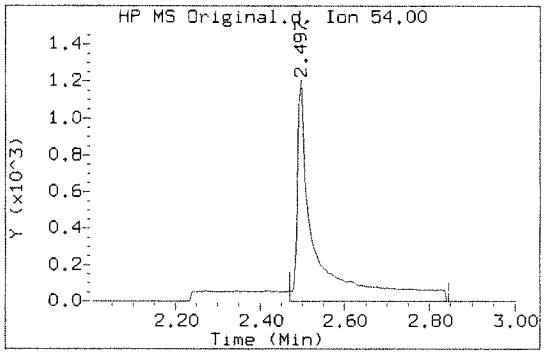
BEFORE
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
14:16
ALSHS
Server



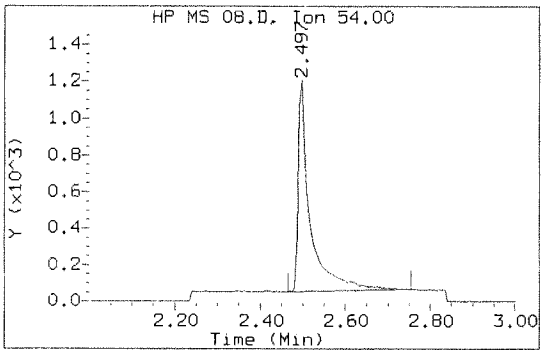
AFTER
MASS
128
AREA
0
HEIGHT
0
28-May-2024
13:05



BEFORE
MASS
54
AREA
3552
HEIGHT
1208
18-Apr-2024
14:16
ALSHS
Server



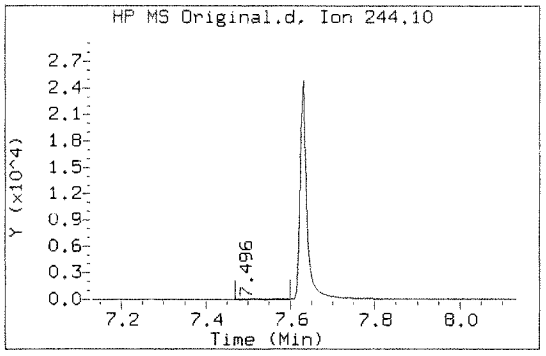
AFTER
MASS
54
AREA
2217
HEIGHT
1153
28-May-2024
13:05



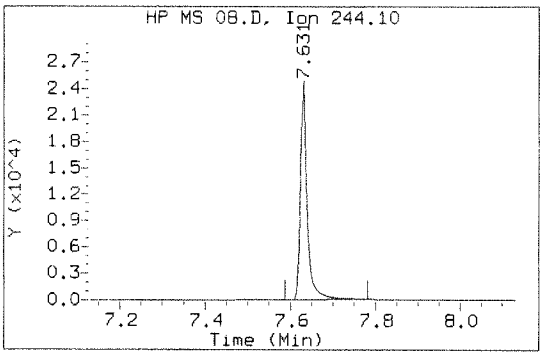
4-Terphenyl-d14 (1718-51-0)

Reason Code:

BEFORE
MASS
244.1
AREA
363
HEIGHT
48
18-Apr-2024
14:16
ALSHS
Server



AFTER
MASS
244.1
AREA
27519
HEIGHT
24648
28-May-2024
13:05

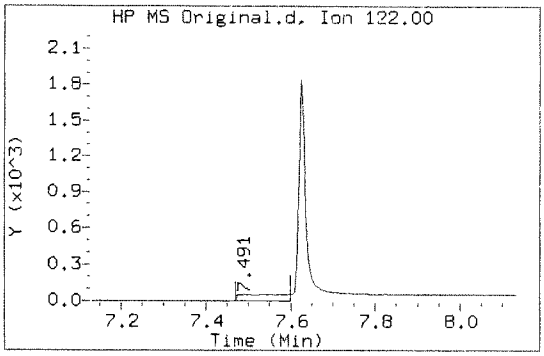


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

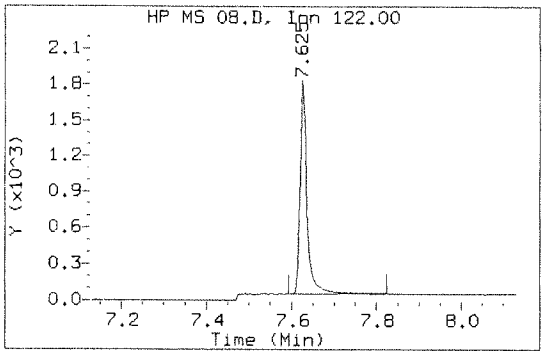
4-Terphenyl-d14 (1718-51-0)

Reason Code:

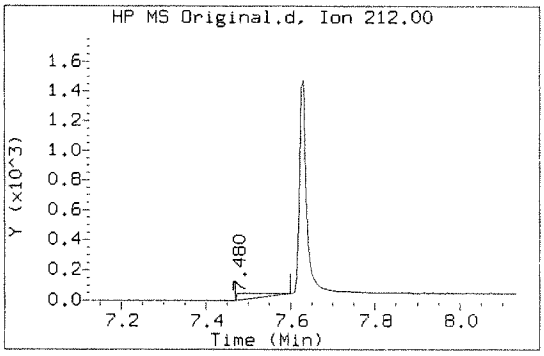
BEFORE
MASS
122
AREA
391
HEIGHT
52
18-Apr-2024
14:16
ALSHS
Server



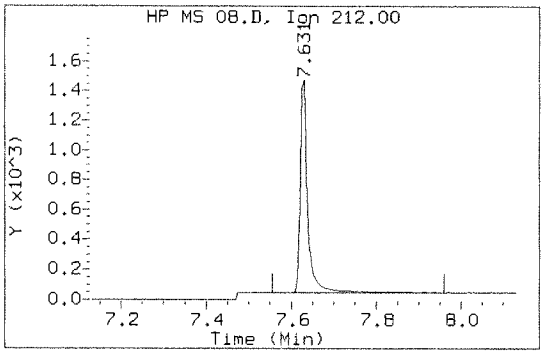
AFTER
MASS
122
AREA
2002
HEIGHT
1786
28-May-2024
13:05



BEFORE
MASS
212
AREA
175
HEIGHT
44
18-Apr-2024
14:16
ALSHS
Server



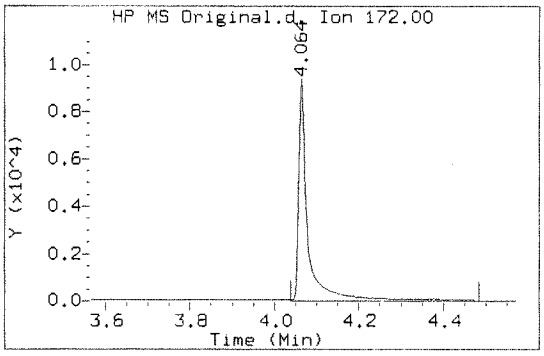
AFTER
MASS
212
AREA
1733
HEIGHT
1429
28-May-2024
13:05



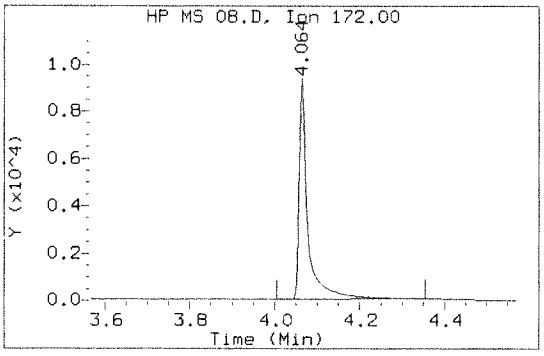
2-Fluorobiphenyl (321-60-8)

Reason Code:

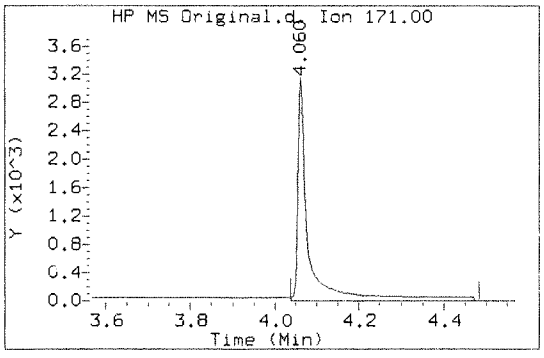
BEFORE
MASS
172
AREA
14843
HEIGHT
9413
18-Apr-2024
14:16
ALSHS
Server



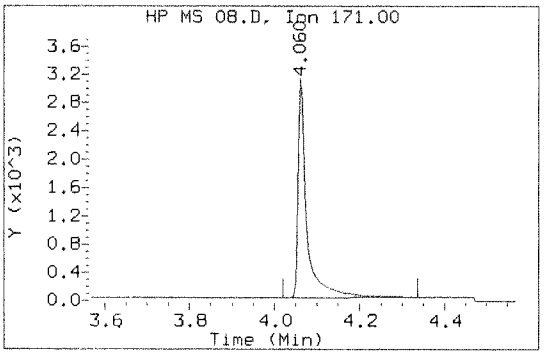
AFTER
MASS
172
AREA
13067
HEIGHT
9360
28-May-2024
13:05



BEFORE
MASS
171
AREA
5828
HEIGHT
3145
18-Apr-2024
14:16
ALSHS
Server



AFTER
MASS
171
AREA
4411
HEIGHT
3096
28-May-2024
13:05



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D Page 1
Report Date: 17-Jul-2024 16:41

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Lab Smp Id: 14DX-0.20
Inj Date : 18-APR-2024 14:18
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.20
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 14:18 Cal File: 09.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

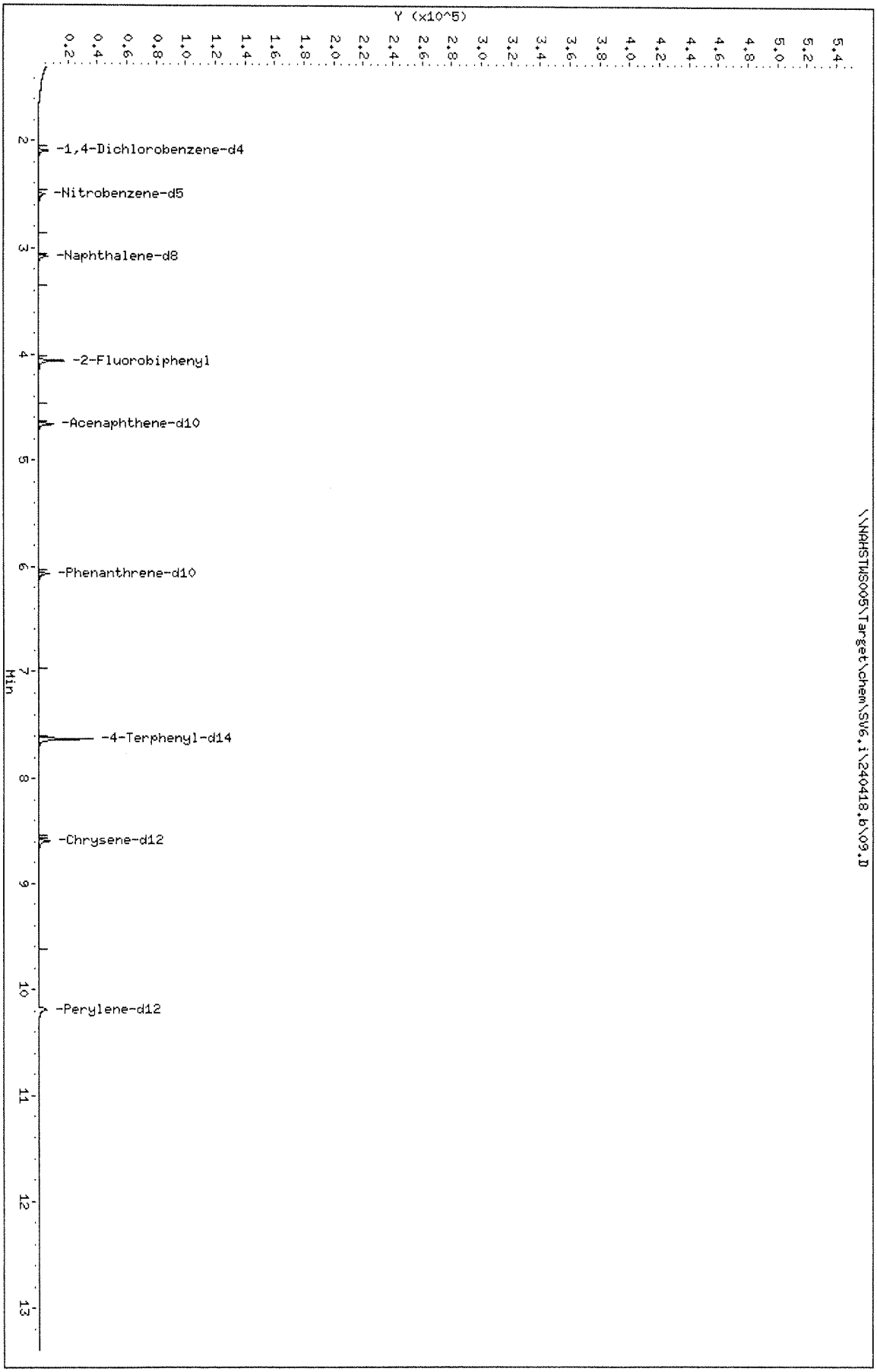
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)	
* 20 1,4-Dichlorobenzene-d4	152	2.094	2.089	(1.000)	2896	0.10000		(aM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	9147	0.10000		(M)
$ 33 Nitrobenzene-d5	82	2.496	2.502	(0.812)	5927	0.20000	0.2158	(AM)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	5593	0.10000		(M)
$ 69 2-Fluorobiphenyl	172	4.064	4.067	(0.871)	17331	0.20000	0.2027	(AM)
* 126 Phenanthrene-d10	188	6.065	6.065	(1.000)	10775	0.10000		(M)
* 182 Chrysene-d12	240	8.593	8.599	(1.000)	9063	0.10000		(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.888)	39718	0.20000	0.2151	(AM)
* 198 Perylene-d12	264	10.184	10.189	(1.000)	8962	0.10000		(M)
1 1,4-Dioxane	58	0.845	0.820	(0.404)	1268	0.20000	0.2044	(QM)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Date : 18-APR-2024 14:18
Client ID:
Sample Info: 14DX-0.20
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV6.i
Operator: LG
Column diameter: 0.28

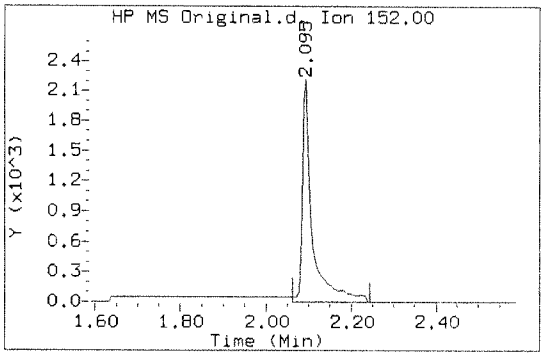


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

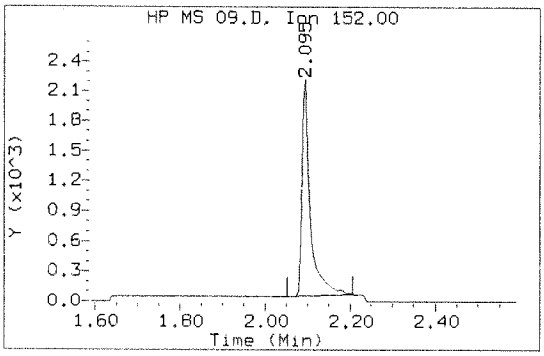
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

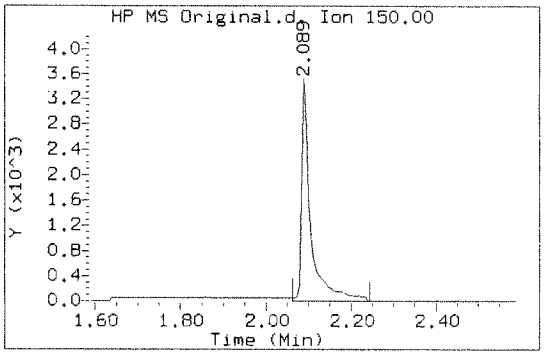
BEFORE
MASS 152
AREA 3565
HEIGHT 2222
18-Apr-2024 14:31
ALSHS Server



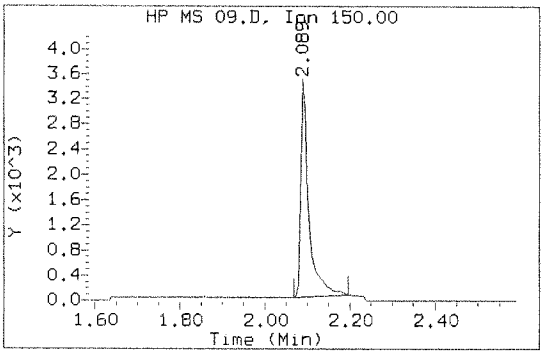
AFTER
MASS 152
AREA 2896
HEIGHT 2165
23-May-2024 08:54



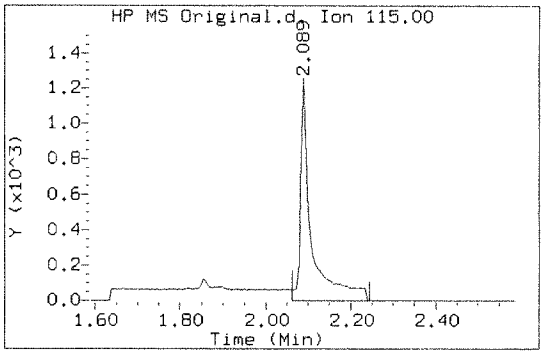
BEFORE
MASS 150
AREA 5268
HEIGHT 3527
18-Apr-2024 14:31
ALSHS Server



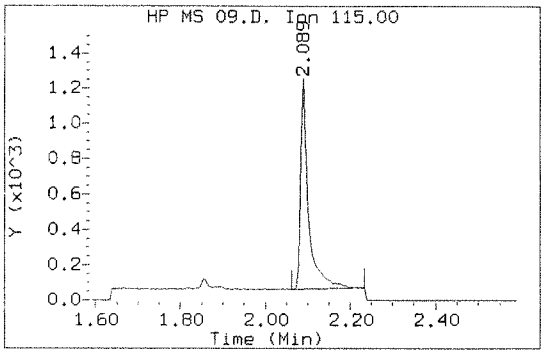
AFTER
MASS 150
AREA 4498
HEIGHT 3469
23-May-2024 08:54



BEFORE
MASS 115
AREA 2227
HEIGHT 1257
18-Apr-2024 14:31
ALSHS Server



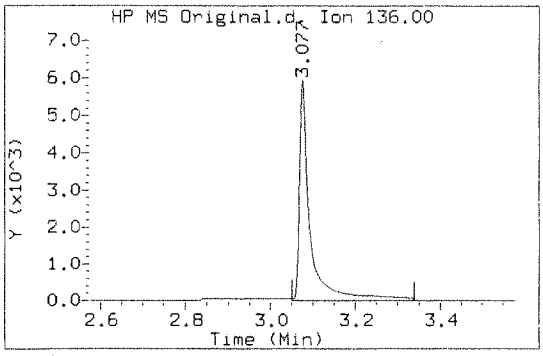
AFTER
MASS 115
AREA 1525
HEIGHT 1194
23-May-2024 08:54



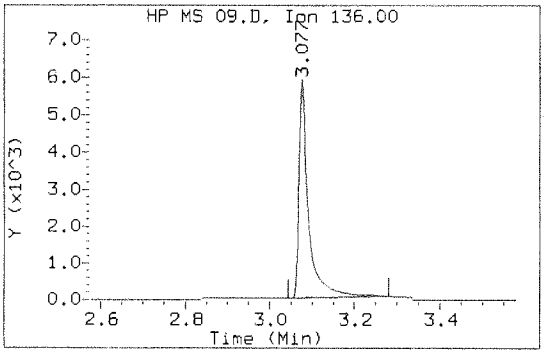
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS 136
AREA 10466
HEIGHT 5947
18-Apr-2024 14:31
ALSHS Server



AFTER
MASS 136
AREA 9147
HEIGHT 5889
23-May-2024 08:54

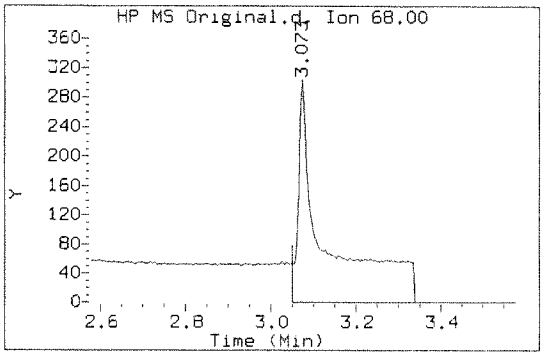


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

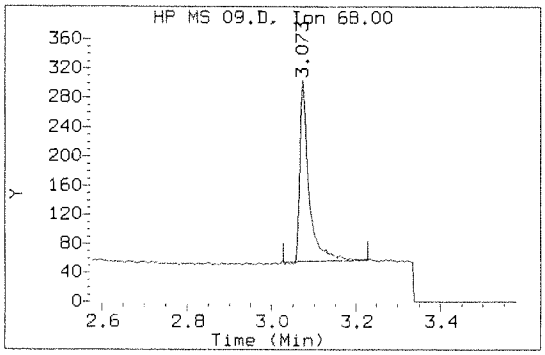
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
68
AREA
1344
HEIGHT
304
18-Apr-2024
14:31
ALSHS
Server



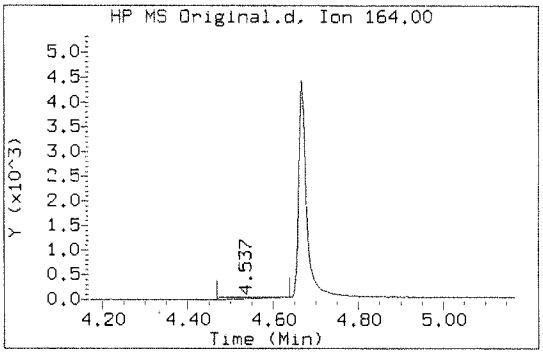
AFTER
MASS
68
AREA
362
HEIGHT
248
23-May-2024
08:54



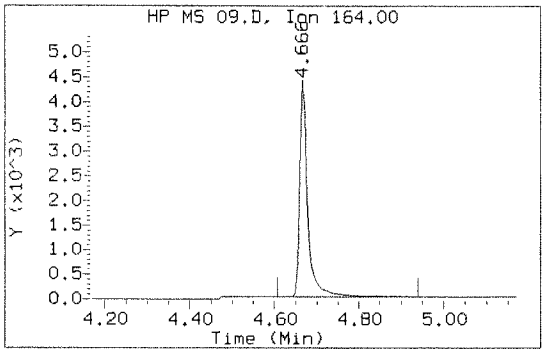
Acenaphthene-d10 (15067-26-2)

Reason Code:

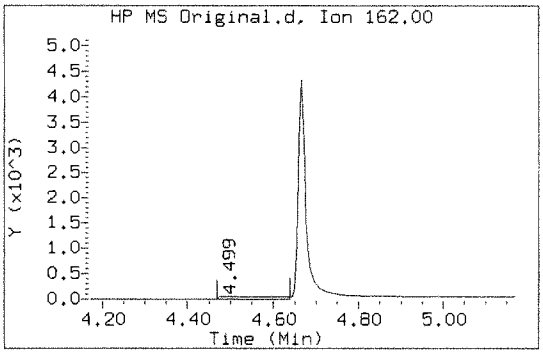
BEFORE
MASS
164
AREA
238
HEIGHT
29
18-Apr-2024
14:31
ALSHS
Server



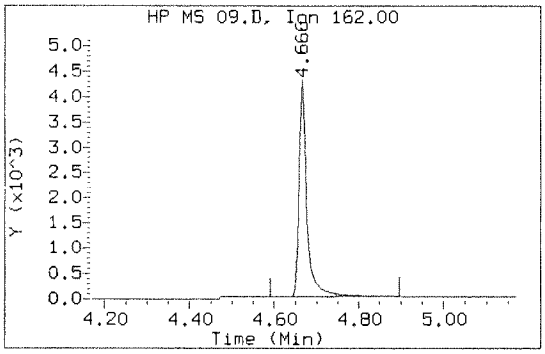
AFTER
MASS
164
AREA
5593
HEIGHT
4390
23-May-2024
08:54



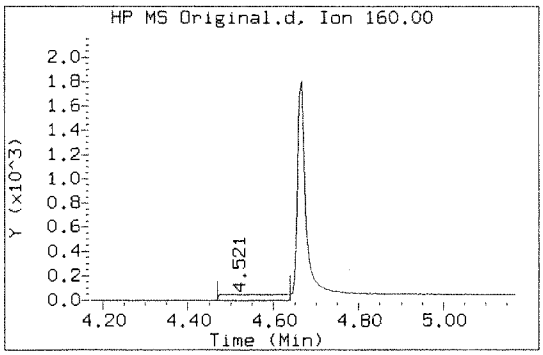
BEFORE
MASS
162
AREA
503
HEIGHT
51
18-Apr-2024
14:31
ALSHS
Server



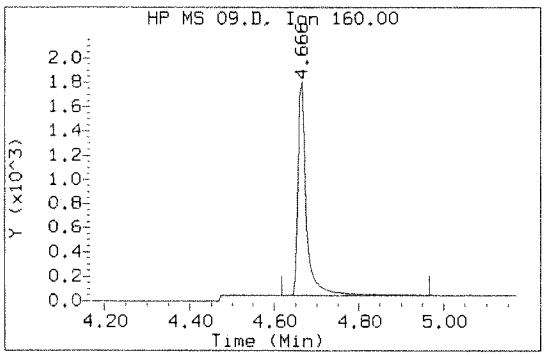
AFTER
MASS
162
AREA
5314
HEIGHT
4281
23-May-2024
08:54



BEFORE
MASS
160
AREA
485
HEIGHT
49
18-Apr-2024
14:31
ALSHS
Server



AFTER
MASS
160
AREA
2365
HEIGHT
1761
23-May-2024
08:54

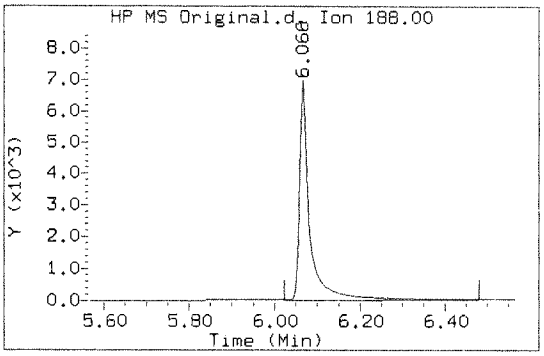


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

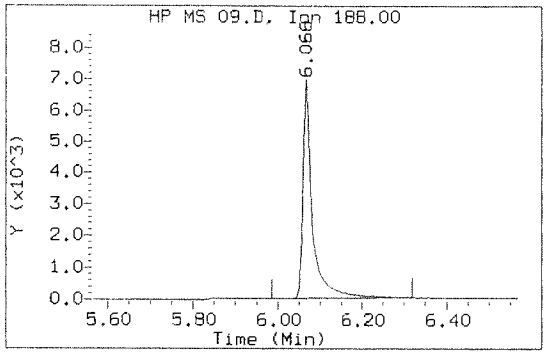
Phenanthrene-d10 (1517-22-2)

Reason Code:

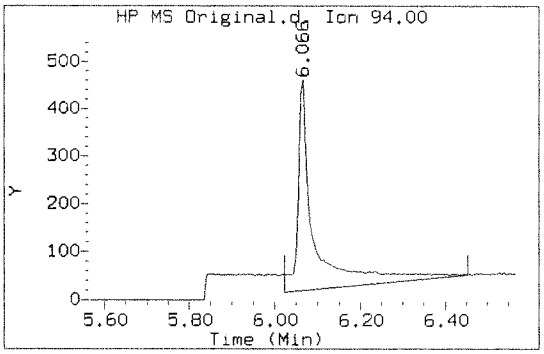
BEFORE
MASS
188
AREA
11617
HEIGHT
6980
18-Apr-2024
14:31
ALSHS
Server



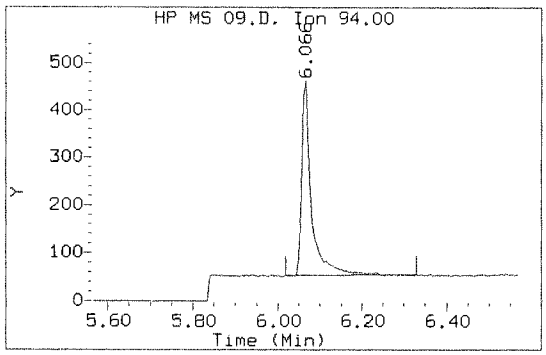
AFTER
MASS
188
AREA
10775
HEIGHT
6945
23-May-2024
08:54



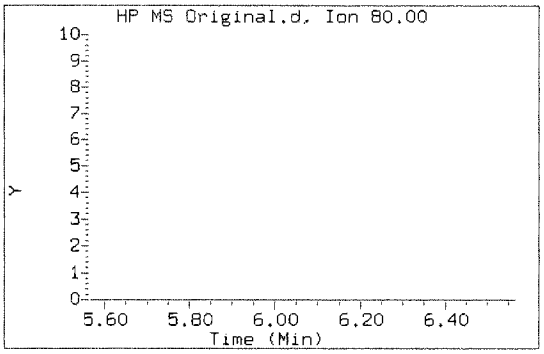
BEFORE
MASS
94
AREA
1175
HEIGHT
443
18-Apr-2024
14:31
ALSHS
Server



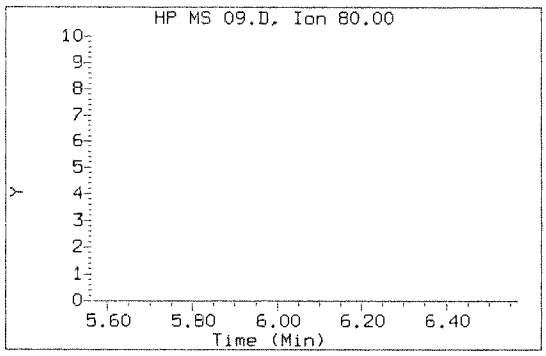
AFTER
MASS
94
AREA
655
HEIGHT
409
23-May-2024
08:54



BEFORE
MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
14:31
ALSHS
Server



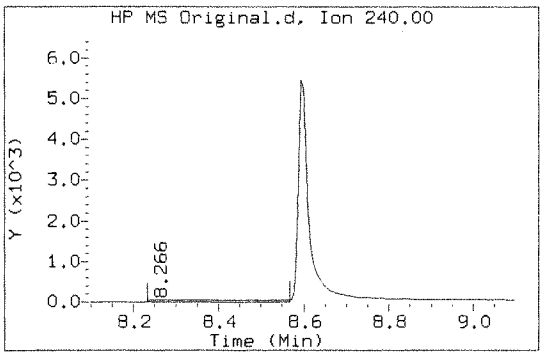
AFTER
MASS
80
AREA
0
HEIGHT
0
23-May-2024
08:54



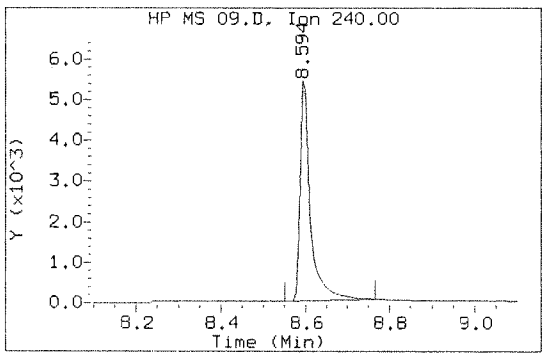
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
966
HEIGHT
50
18-Apr-2024
14:31
ALSHS
Server



AFTER
MASS
240
AREA
9063
HEIGHT
5411
23-May-2024
08:54

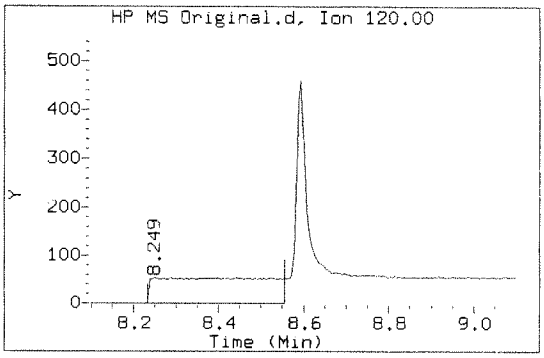


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

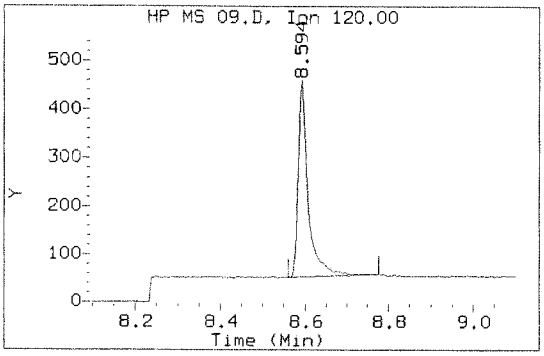
Chrysene-d12 (1719-03-5)

Reason Code:

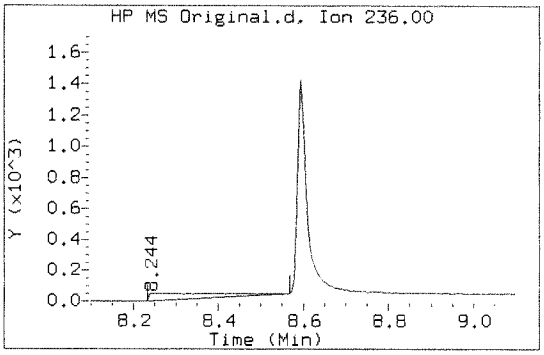
BEFORE
MASS
120
AREA
1000
HEIGHT
53
18-Apr-2024
14:31
ALSHS
Server



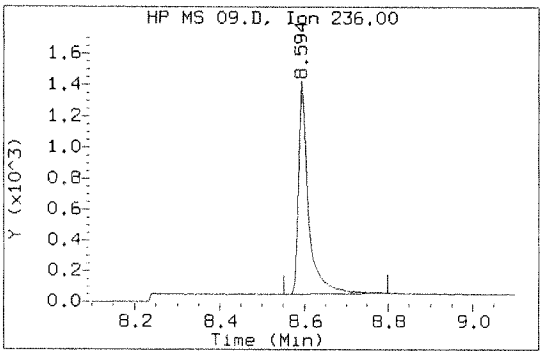
AFTER
MASS
120
AREA
651
HEIGHT
406
23-May-2024
08:54



BEFORE
MASS
236
AREA
466
HEIGHT
47
18-Apr-2024
14:31
ALSHS
Server



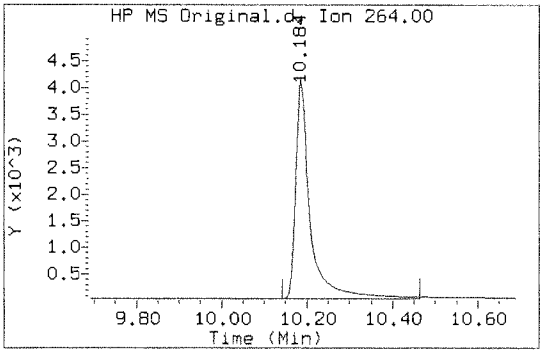
AFTER
MASS
236
AREA
2242
HEIGHT
1376
23-May-2024
08:54



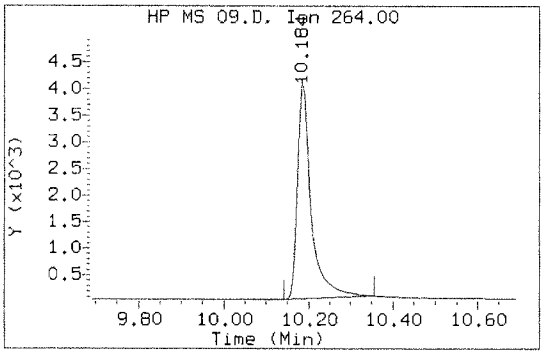
Perylene-d12 (1520-96-3)

Reason Code:

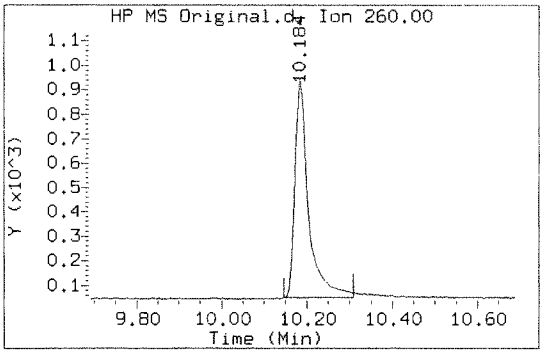
BEFORE
MASS
264
AREA
9658
HEIGHT
4112
18-Apr-2024
14:31
ALSHS
Server



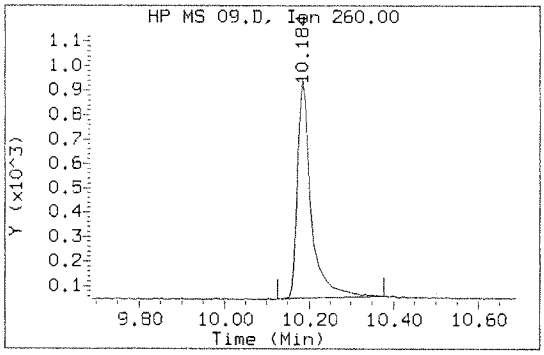
AFTER
MASS
264
AREA
8962
HEIGHT
4099
23-May-2024
08:54



BEFORE
MASS
260
AREA
1972
HEIGHT
894
18-Apr-2024
14:31
ALSHS
Server



AFTER
MASS
260
AREA
1963
HEIGHT
893
23-May-2024
08:54

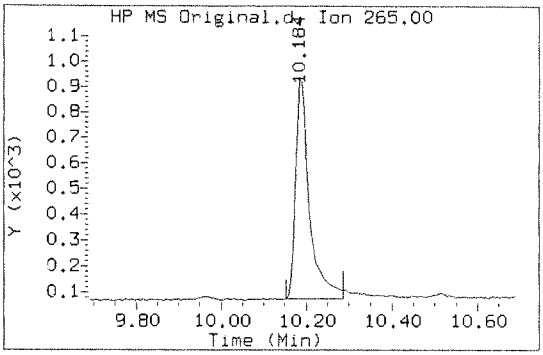


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

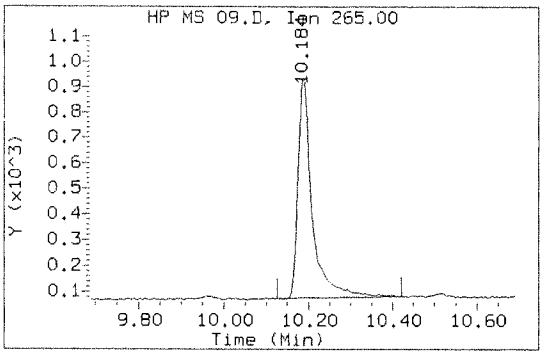
Perylene-d12 (1520-96-3)

Reason Code:

BEFORE
MASS
265
AREA
1909
HEIGHT
854
18-Apr-2024
14:31
ALSHS
Server



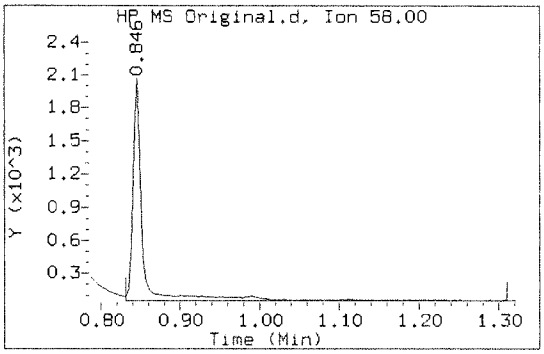
AFTER
MASS
265
AREA
1984
HEIGHT
853
23-May-2024
08:54



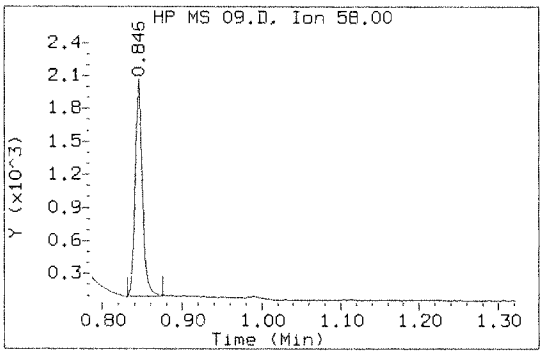
1,4-Dioxane ()

Reason Code:

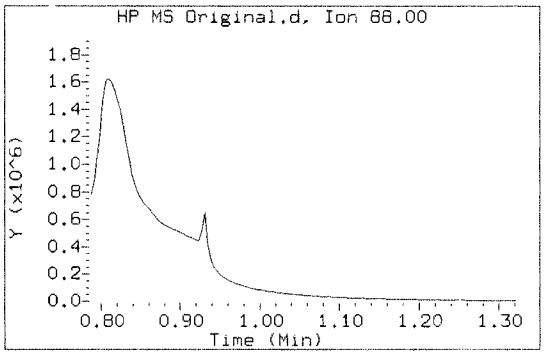
BEFORE
MASS
58
AREA
1746
HEIGHT
2018
18-Apr-2024
14:31
ALSHS
Server



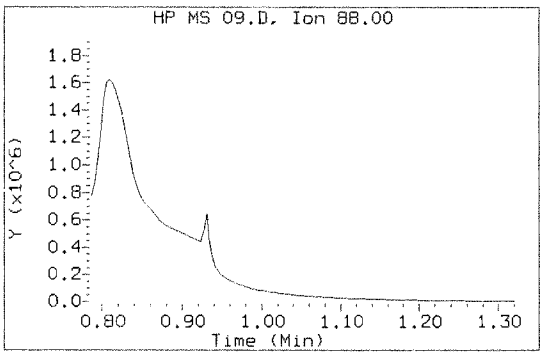
AFTER
MASS
58
AREA
1268
HEIGHT
1979
23-May-2024
08:54



BEFORE
MASS
88
AREA
0
HEIGHT
0
18-Apr-2024
14:31
ALSHS
Server



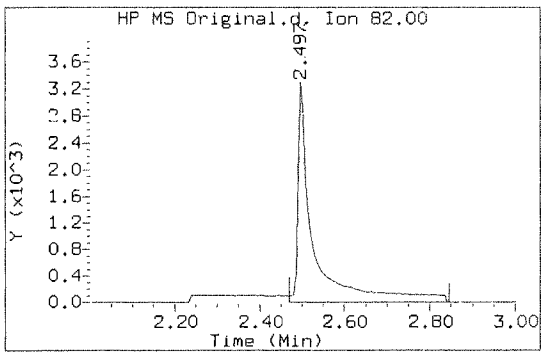
AFTER
MASS
88
AREA
0
HEIGHT
0
23-May-2024
08:54



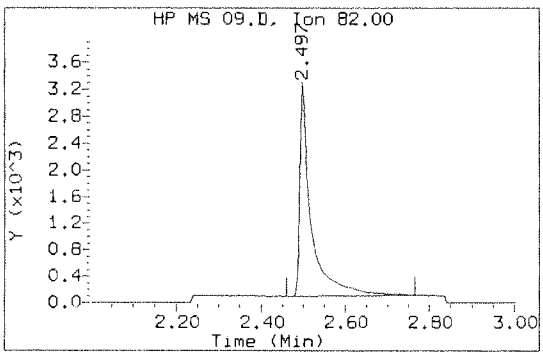
Nitrobenzene-d5 (4165-60-0)

Reason Code:

BEFORE
MASS
82
AREA
8325
HEIGHT
3305
18-Apr-2024
14:31
ALSHS
Server



AFTER
MASS
82
AREA
5927
HEIGHT
3202
23-May-2024
08:54

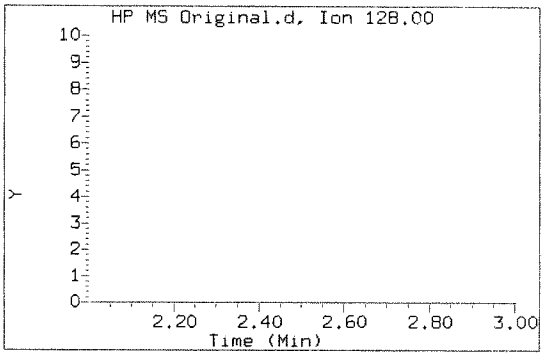


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

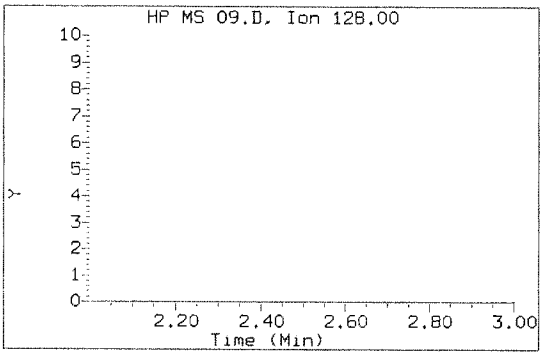
Nitrobenzene-d5 (4165-60-0)

Reason Code:

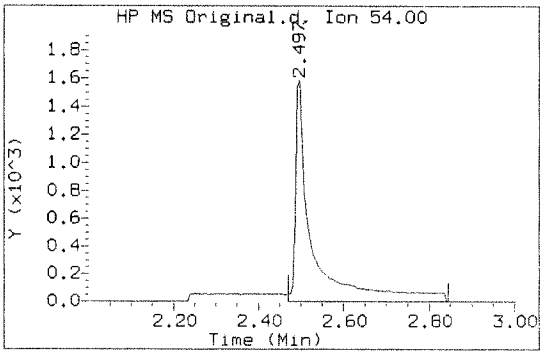
BEFORE
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
14:31
ALSHS
Server



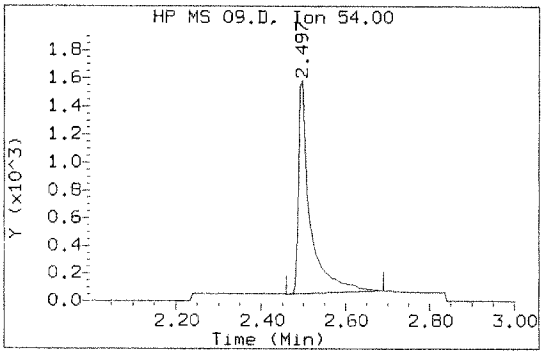
AFTER
MASS
128
AREA
0
HEIGHT
0
23-May-2024
08:54



BEFORE
MASS
54
AREA
4354
HEIGHT
1586
18-Apr-2024
14:31
ALSHS
Server



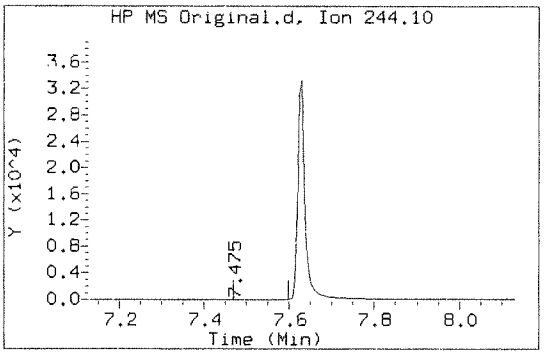
AFTER
MASS
54
AREA
2914
HEIGHT
1530
23-May-2024
08:54



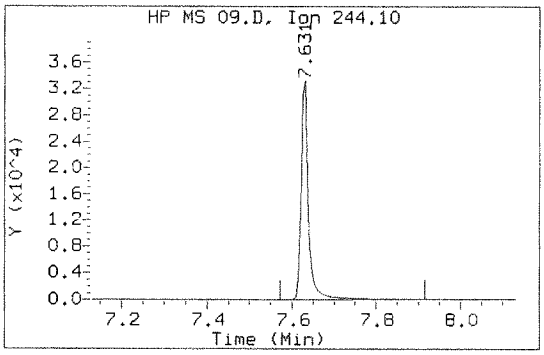
4-Terphenyl-d14 (1718-51-0)

Reason Code:

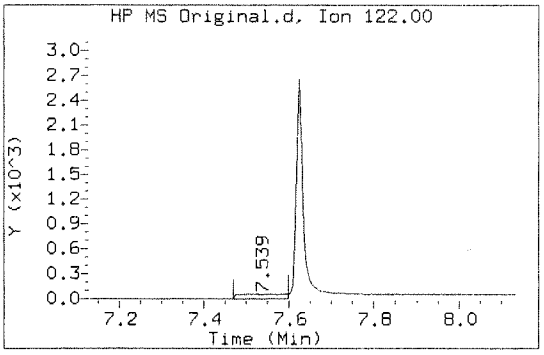
BEFORE
MASS
244.1
AREA
171
HEIGHT
46
18-Apr-2024
14:31
ALSHS
Server



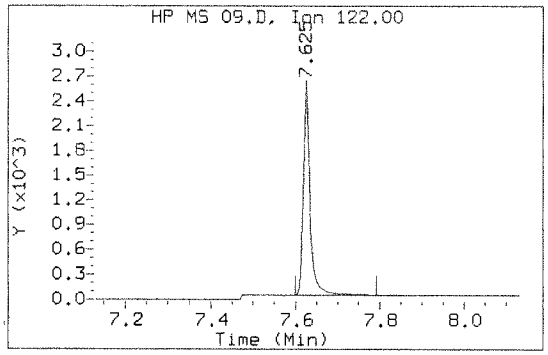
AFTER
MASS
244.1
AREA
39718
HEIGHT
33227
23-May-2024
08:54



BEFORE
MASS
122
AREA
392
HEIGHT
52
18-Apr-2024
14:31
ALSHS
Server



AFTER
MASS
122
AREA
2843
HEIGHT
2606
23-May-2024
08:54



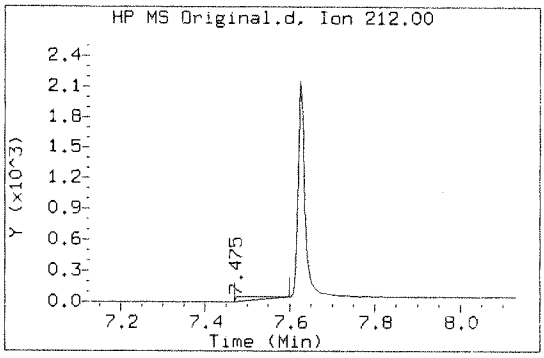
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

4-Terphenyl-d14 (1718-51-0)

Reason Code:

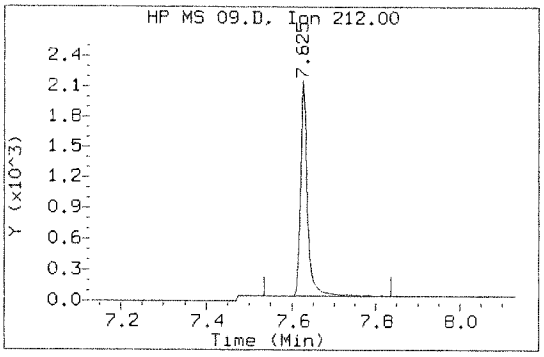
BEFORE

MASS
212
AREA
176
HEIGHT
46
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
212
AREA
2426
HEIGHT
2111
23-May-2024
06:54

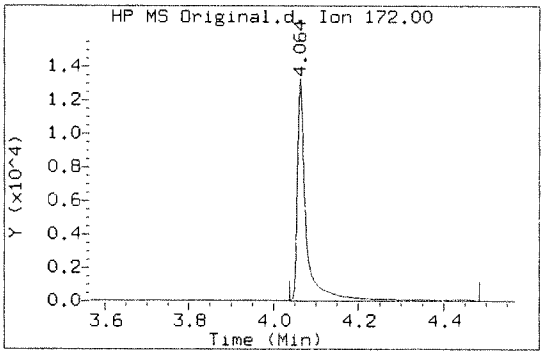


2-Fluorobiphenyl (321-60-8)

Reason Code:

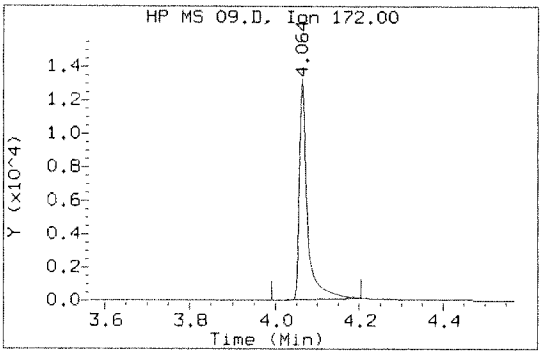
BEFORE

MASS
172
AREA
20172
HEIGHT
13283
18-Apr-2024
14:31
ALSHS
Server



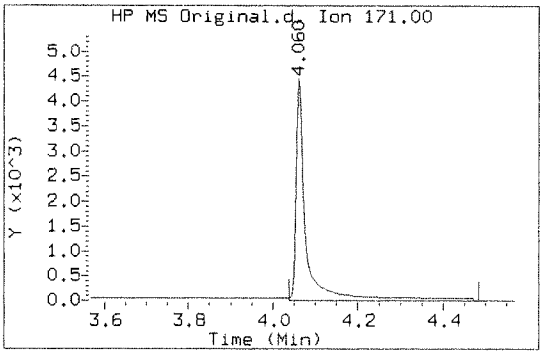
AFTER

MASS
172
AREA
17331
HEIGHT
13194
23-May-2024
08:54



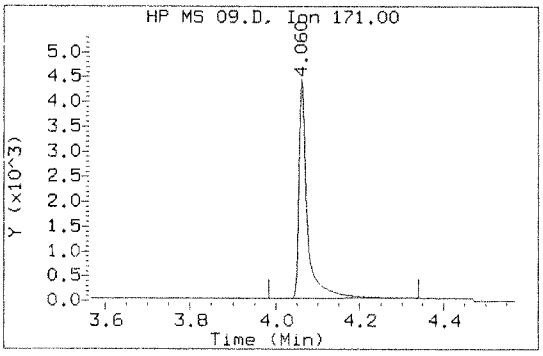
BEFORE

MASS
171
AREA
7647
HEIGHT
4464
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
171
AREA
6174
HEIGHT
4414
23-May-2024
08:54



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Lab Smp Id: 14DX-0.50
Inj Date : 18-APR-2024 14:35
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.50
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 10 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

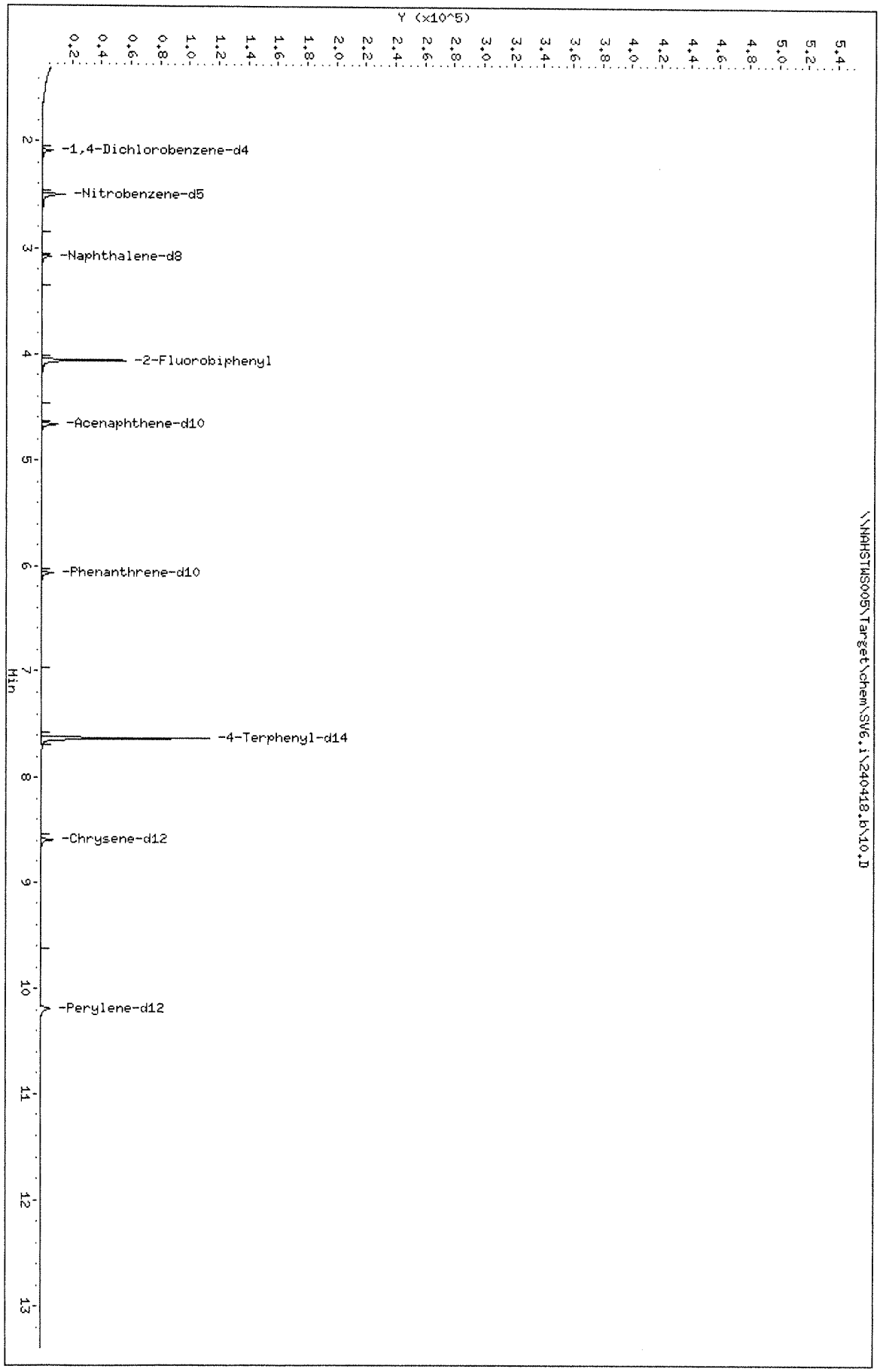
Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)	
* 20 1,4-Dichlorobenzene-d4	152	2.089	2.089	(1.000)	2819	0.10000		(aQM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	9772	0.10000		(M)
$ 33 Nitrobenzene-d5	82	2.497	2.502	(0.812)	15956	0.50000	0.5439	(AM)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	5911	0.10000		(M)
$ 69 2-Fluorobiphenyl	172	4.064	4.067	(0.871)	47534	0.50000	0.5260	(AM)
* 126 Phenanthrene-d10	188	6.066	6.065	(1.000)	11325	0.10000		(M)
* 182 Chrysene-d12	240	8.593	8.599	(1.000)	9856	0.10000		(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.888)	111493	0.50000	0.5553	(AM)
* 198 Perylene-d12	264	10.184	10.189	(1.000)	10138	0.10000		
1 1,4-Dioxane	58	0.831	0.820	(0.398)	2813	0.50000	0.4659	(M)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Date : 18-APR-2024 14:35
Client ID:
Sample Info: 14DX-0.50
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

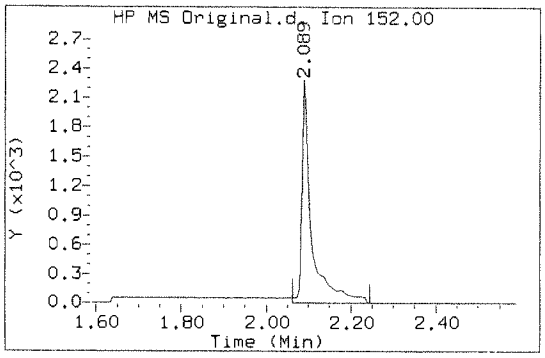
Instrument: SV6.i
Operator: LG
Column diameter: 0.28

Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

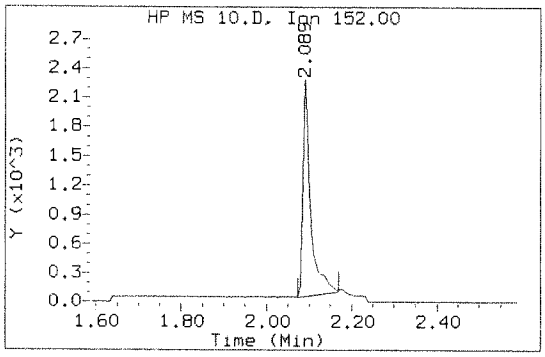
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

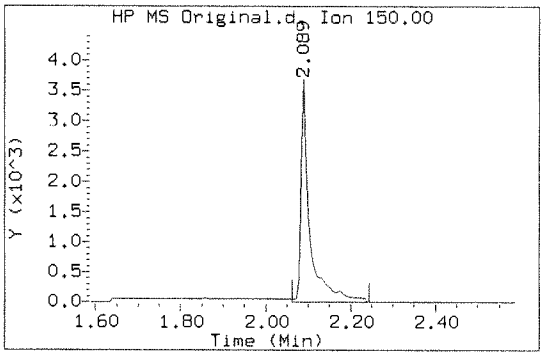
BEFORE
MASS
152
AREA
3637
HEIGHT
2284
18-Apr-2024
14:51
ALSHS
Server



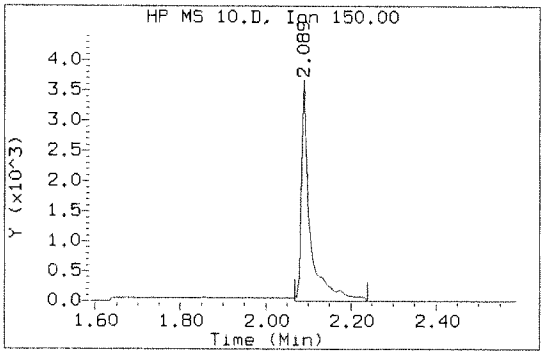
AFTER
MASS
152
AREA
2819
HEIGHT
2227
28-May-2024
13:05



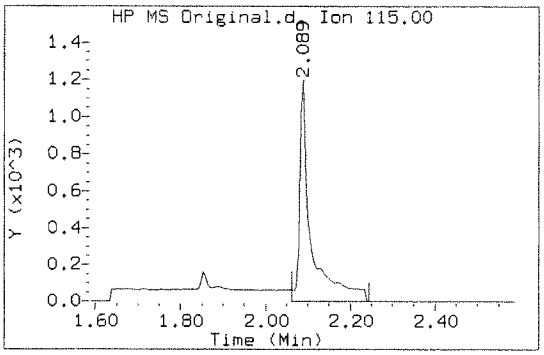
BEFORE
MASS
150
AREA
5370
HEIGHT
3682
18-Apr-2024
14:51
ALSHS
Server



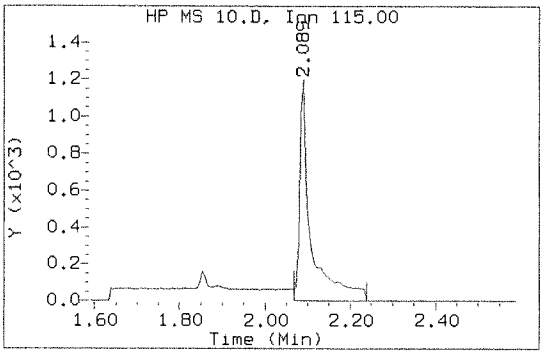
AFTER
MASS
150
AREA
5355
HEIGHT
3682
28-May-2024
13:05



BEFORE
MASS
115
AREA
2255
HEIGHT
1200
18-Apr-2024
14:51
ALSHS
Server



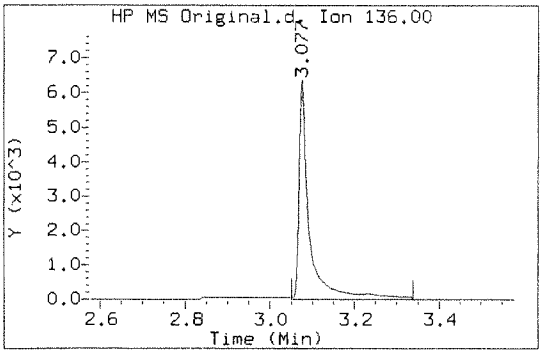
AFTER
MASS
115
AREA
2236
HEIGHT
1200
28-May-2024
13:05



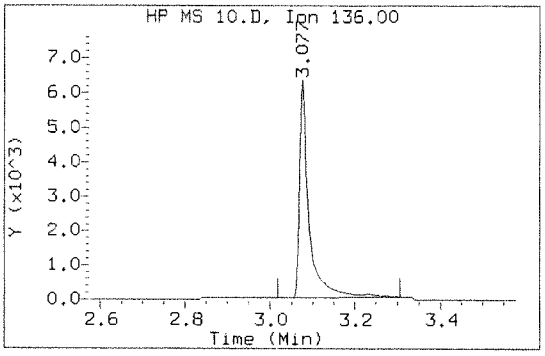
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
10944
HEIGHT
6372
18-Apr-2024
14:51
ALSHS
Server



AFTER
MASS
136
AREA
9772
HEIGHT
6315
28-May-2024
13:05

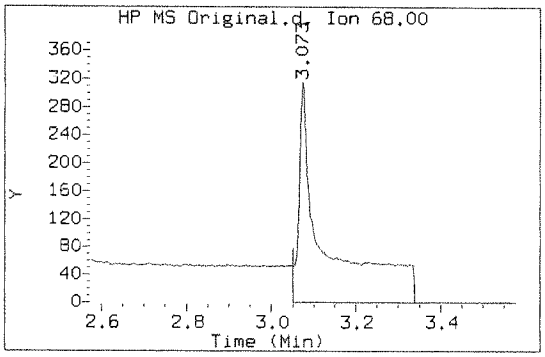


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

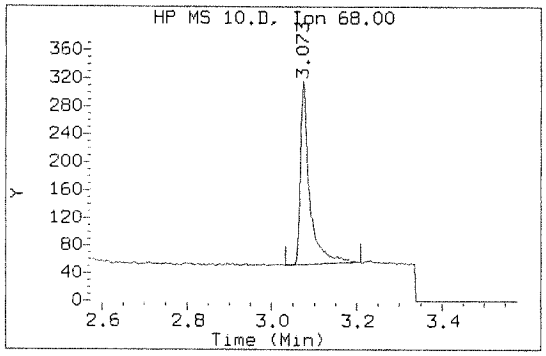
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
68
AREA
1337
HEIGHT
316
18-Apr-2024
14:51
ALSHS
Server



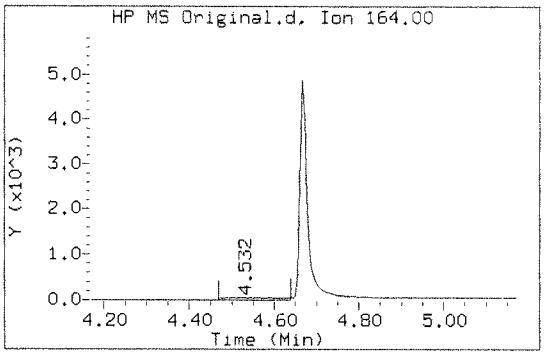
AFTER
MASS
68
AREA
385
HEIGHT
262
28-May-2024
13:05



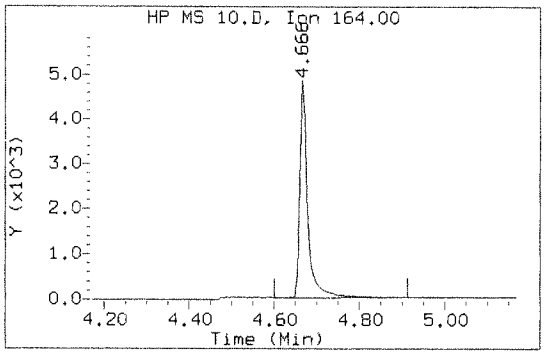
Acenaphthene-d10 (15067-26-2)

Reason Code:

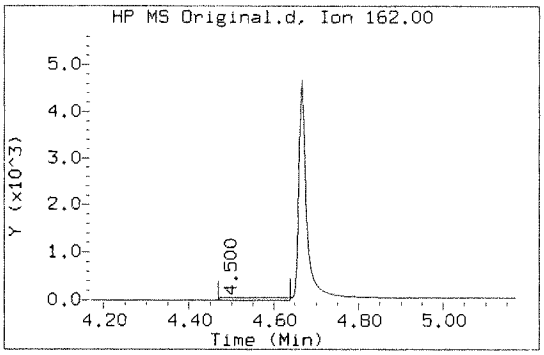
BEFORE
MASS
164
AREA
504
HEIGHT
52
18-Apr-2024
14:51
ALSHS
Server



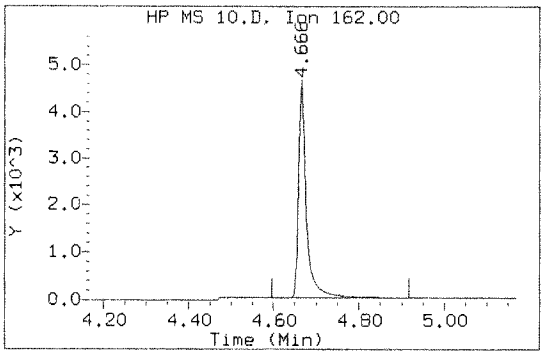
AFTER
MASS
164
AREA
5911
HEIGHT
4828
28-May-2024
13:05



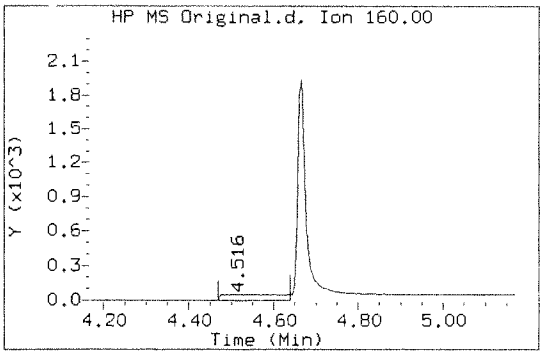
BEFORE
MASS
162
AREA
499
HEIGHT
52
18-Apr-2024
14:51
ALSHS
Server



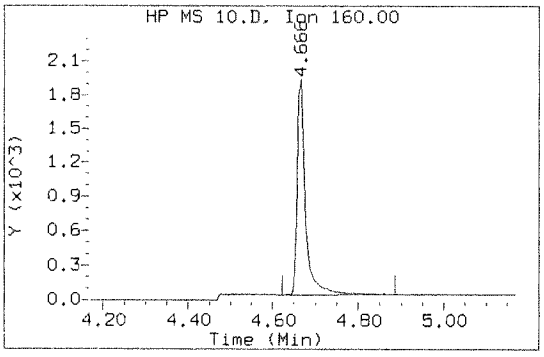
AFTER
MASS
162
AREA
5684
HEIGHT
4637
28-May-2024
13:05



BEFORE
MASS
160
AREA
487
HEIGHT
49
18-Apr-2024
14:51
ALSHS
Server



AFTER
MASS
160
AREA
2489
HEIGHT
1895
28-May-2024
13:05

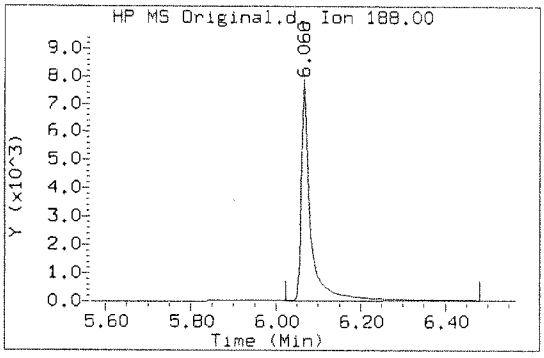


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

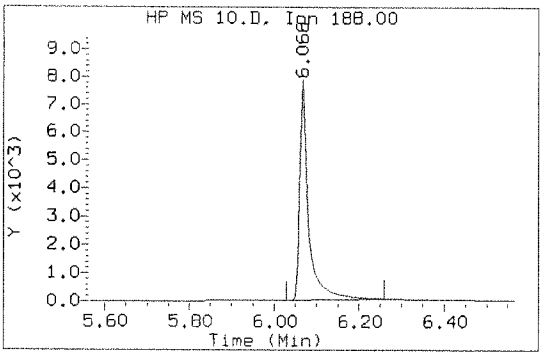
Phenanthrene-d10 (1517-22-2)

Reason Code:

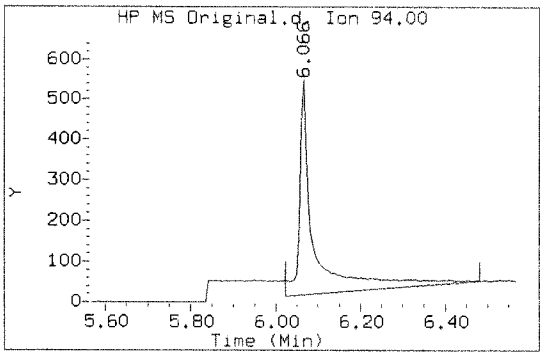
BEFORE
MASS
188
AREA
12429
HEIGHT
7885
18-Apr-2024
14:51
ALSHS
Server



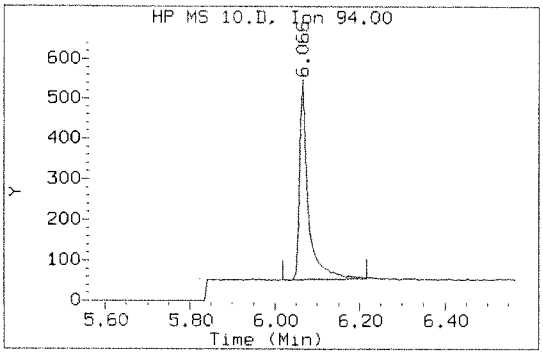
AFTER
MASS
188
AREA
11325
HEIGHT
7848
28-May-2024
13:05



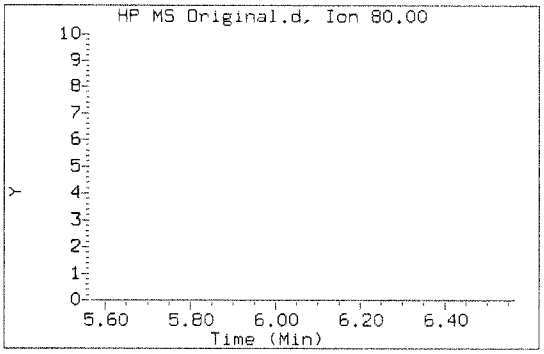
BEFORE
MASS
94
AREA
1281
HEIGHT
530
18-Apr-2024
14:51
ALSHS
Server



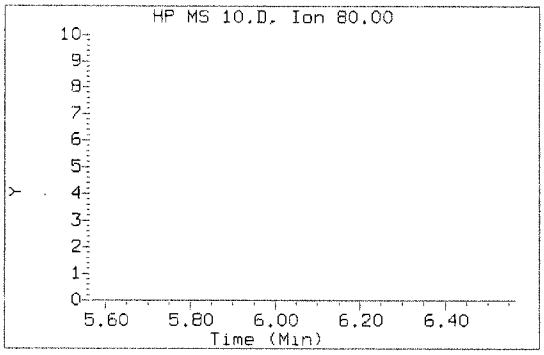
AFTER
MASS
94
AREA
704
HEIGHT
496
28-May-2024
13:05



BEFORE
MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server



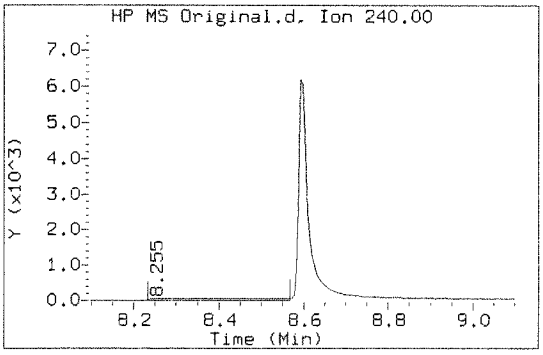
AFTER
MASS
80
AREA
0
HEIGHT
0
28-May-2024
13:05



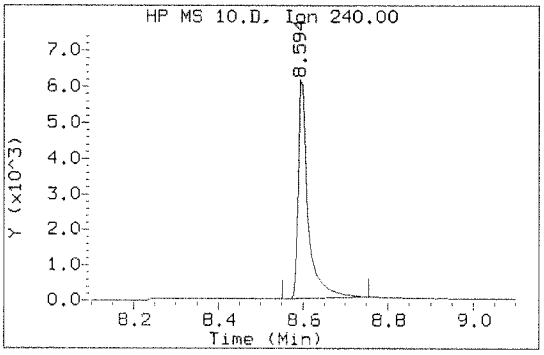
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
983
HEIGHT
51
18-Apr-2024
14:51
ALSHS
Server



AFTER
MASS
240
AREA
9856
HEIGHT
6137
28-May-2024
13:05

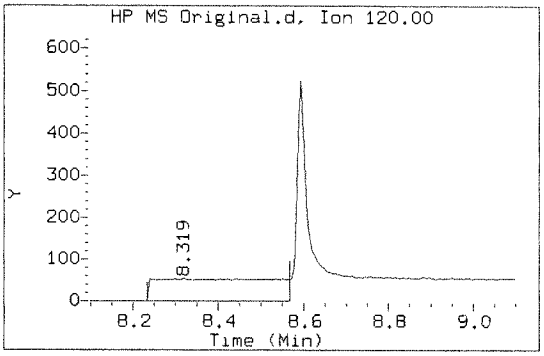


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

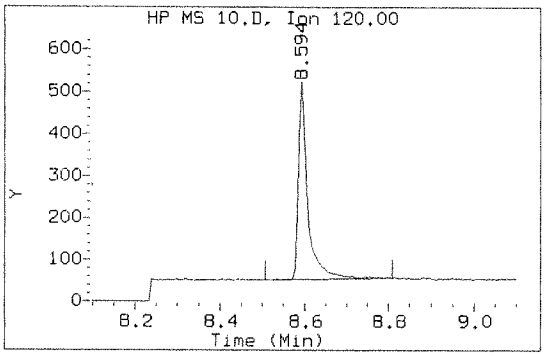
Chrysene-d12 (1719-03-5)

Reason Code:

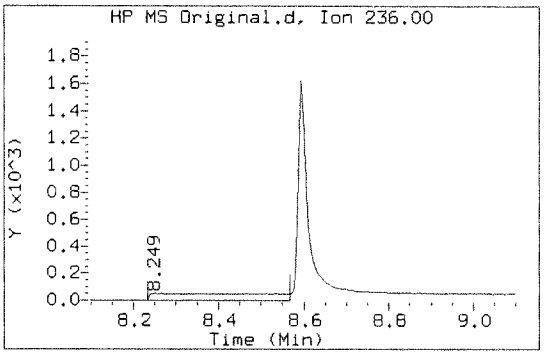
BEFORE
MASS
120
AREA
1034
HEIGHT
54
18-Apr-2024
14:51
ALSHS
Server



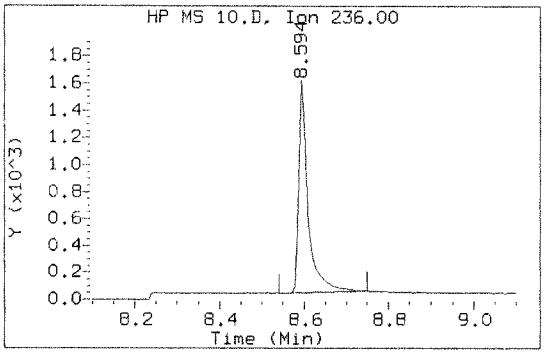
AFTER
MASS
120
AREA
718
HEIGHT
470
28-May-2024
13:05



BEFORE
MASS
236
AREA
972
HEIGHT
50
18-Apr-2024
14:51
ALSHS
Server



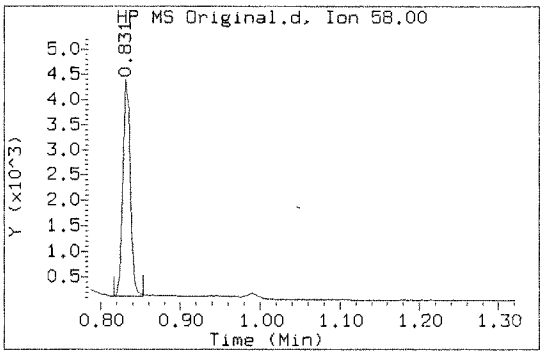
AFTER
MASS
236
AREA
2369
HEIGHT
1570
28-May-2024
13:05



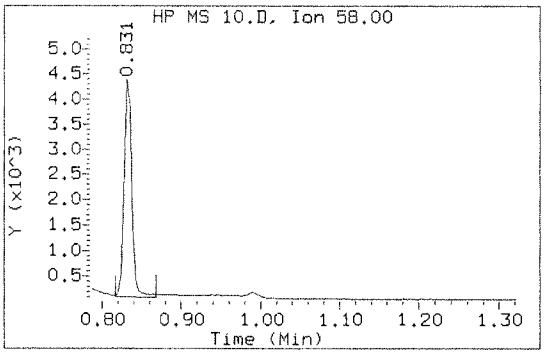
1,4-Dioxane ()

Reason Code:

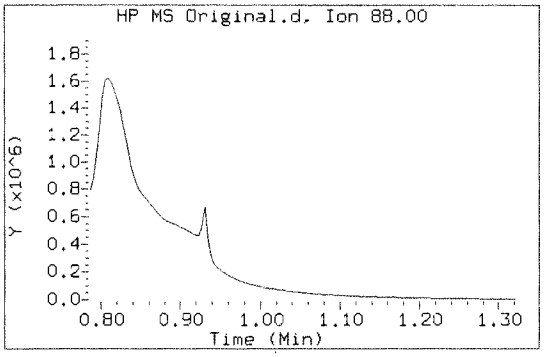
BEFORE
MASS
58
AREA
2715
HEIGHT
4282
18-Apr-2024
14:51
ALSHS
Server



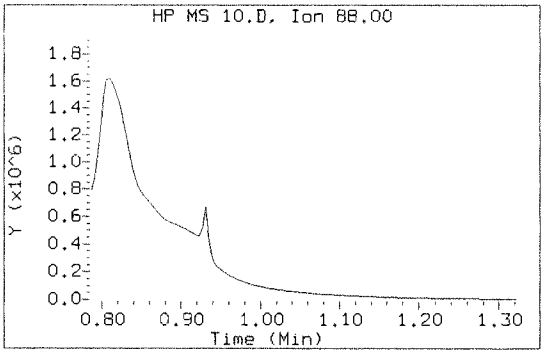
AFTER
MASS
58
AREA
2813
HEIGHT
4303
28-May-2024
13:05



BEFORE
MASS
88
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server



AFTER
MASS
88
AREA
0
HEIGHT
0
28-May-2024
13:05

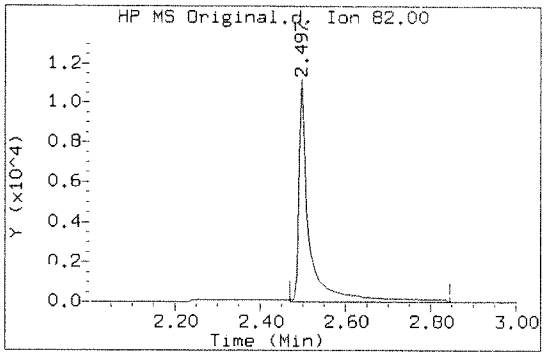


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

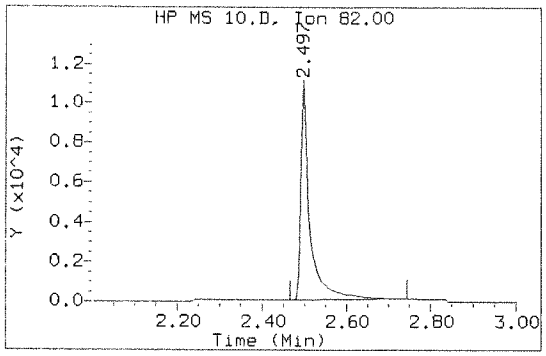
Nitrobenzene-d5 (4165-60-0)

Reason Code:

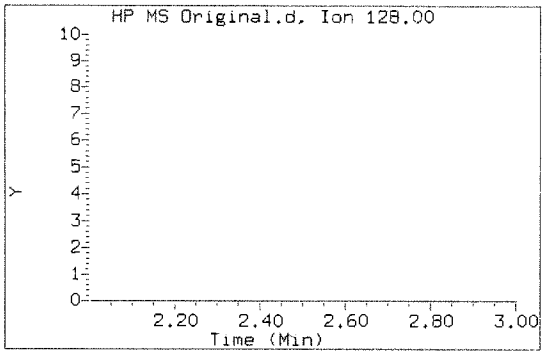
BEFORE
MASS
82
AREA
18735
HEIGHT
11209
18-Apr-2024
14:51
ALSHS
Server



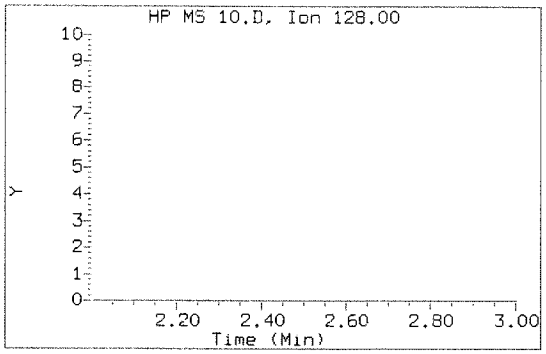
AFTER
MASS
82
AREA
15956
HEIGHT
11102
28-May-2024
13:05



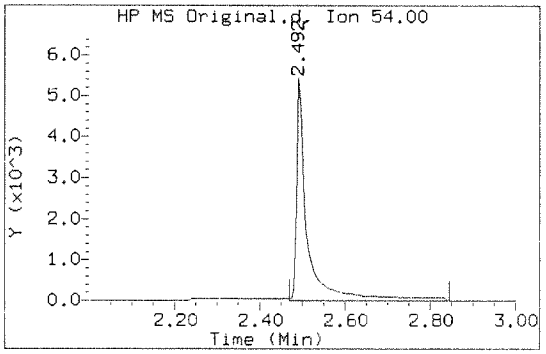
BEFORE
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server



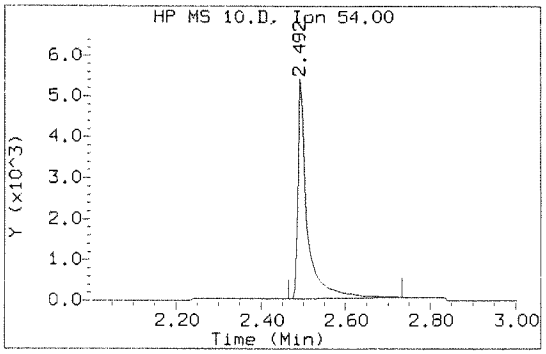
AFTER
MASS
128
AREA
0
HEIGHT
0
28-May-2024
13:05



BEFORE
MASS
54
AREA
9543
HEIGHT
5435
18-Apr-2024
14:51
ALSHS
Server



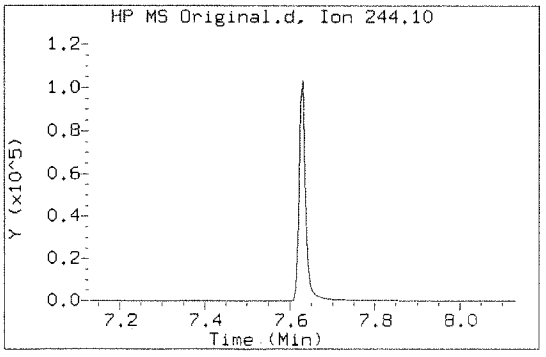
AFTER
MASS
54
AREA
8025
HEIGHT
5379
28-May-2024
13:05



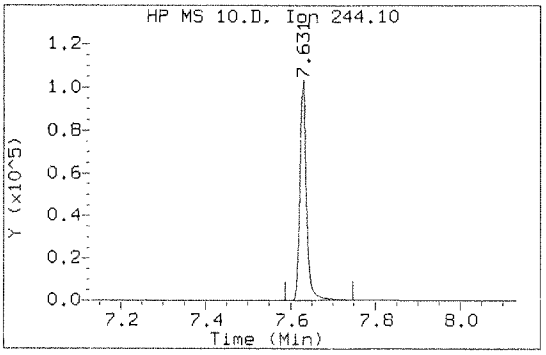
4-Terphenyl-d14 (1718-51-0)

Reason Code:

BEFORE
MASS
244.1
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server



AFTER
MASS
244.1
AREA
111493
HEIGHT
103434
28-May-2024
13:05

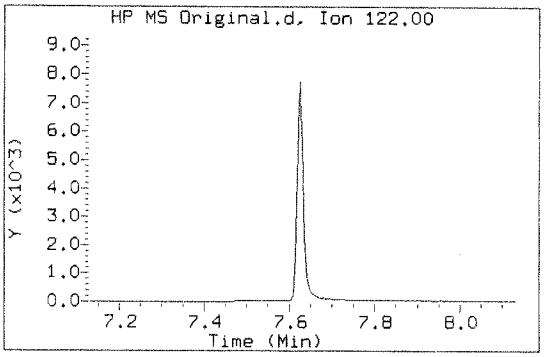


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

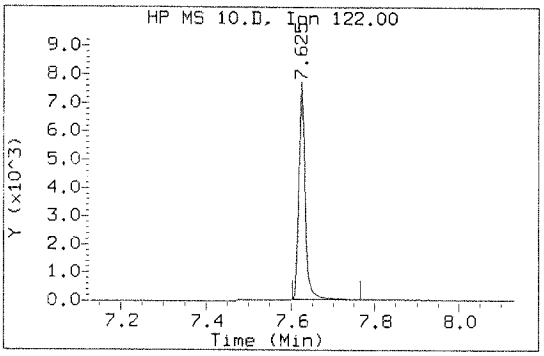
4-Terphenyl-d14 (1718-51-0)

Reason Code:

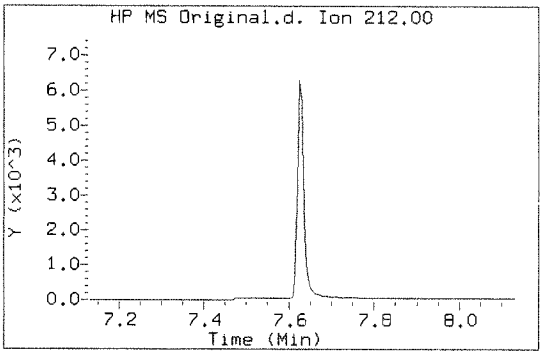
BEFORE
MASS
122
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server



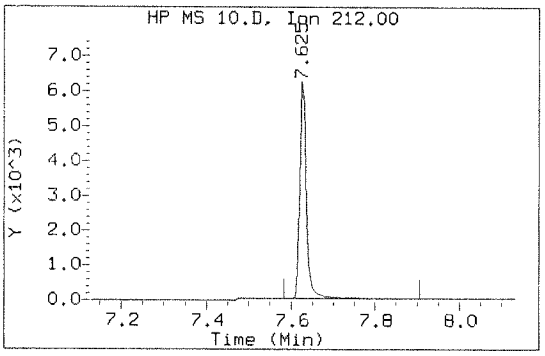
AFTER
MASS
122
AREA
7961
HEIGHT
7695
28-May-2024
13:05



BEFORE
MASS
212
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server



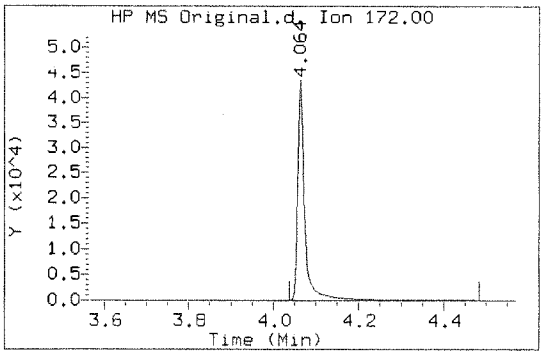
AFTER
MASS
212
AREA
6900
HEIGHT
6243
28-May-2024
13:05



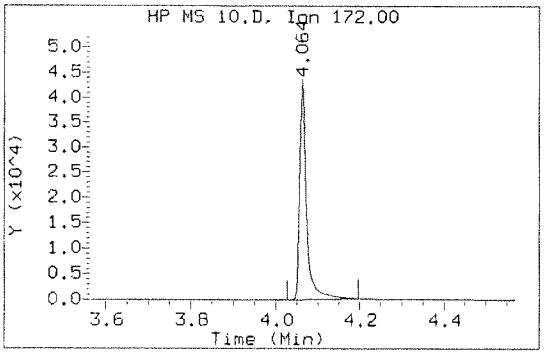
2-Fluorobiphenyl (321-60-8)

Reason Code:

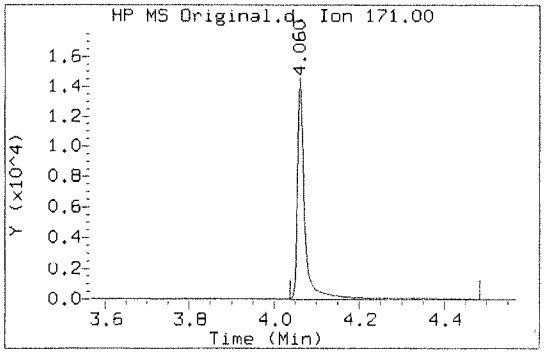
BEFORE
MASS
172
AREA
51564
HEIGHT
43720
18-Apr-2024
14:51
ALSHS
Server



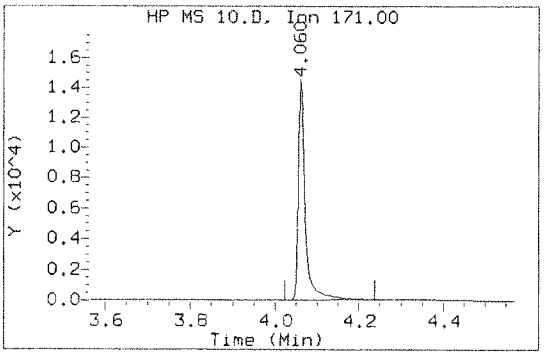
AFTER
MASS
172
AREA
47534
HEIGHT
43625
28-May-2024
13:05



BEFORE
MASS
171
AREA
18313
HEIGHT
14592
18-Apr-2024
14:51
ALSHS
Server



AFTER
MASS
171
AREA
16377
HEIGHT
14537
28-May-2024
13:05



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Lab Smp Id: 14DX ICV-0.08 Client Smp ID: 14DX ICV-0.08
Inj Date : 18-APR-2024 14:53
Operator : LG Inst ID: SV6.i
Smp Info : 14DX ICV-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 17-Jul-2024 16:39 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 11 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14

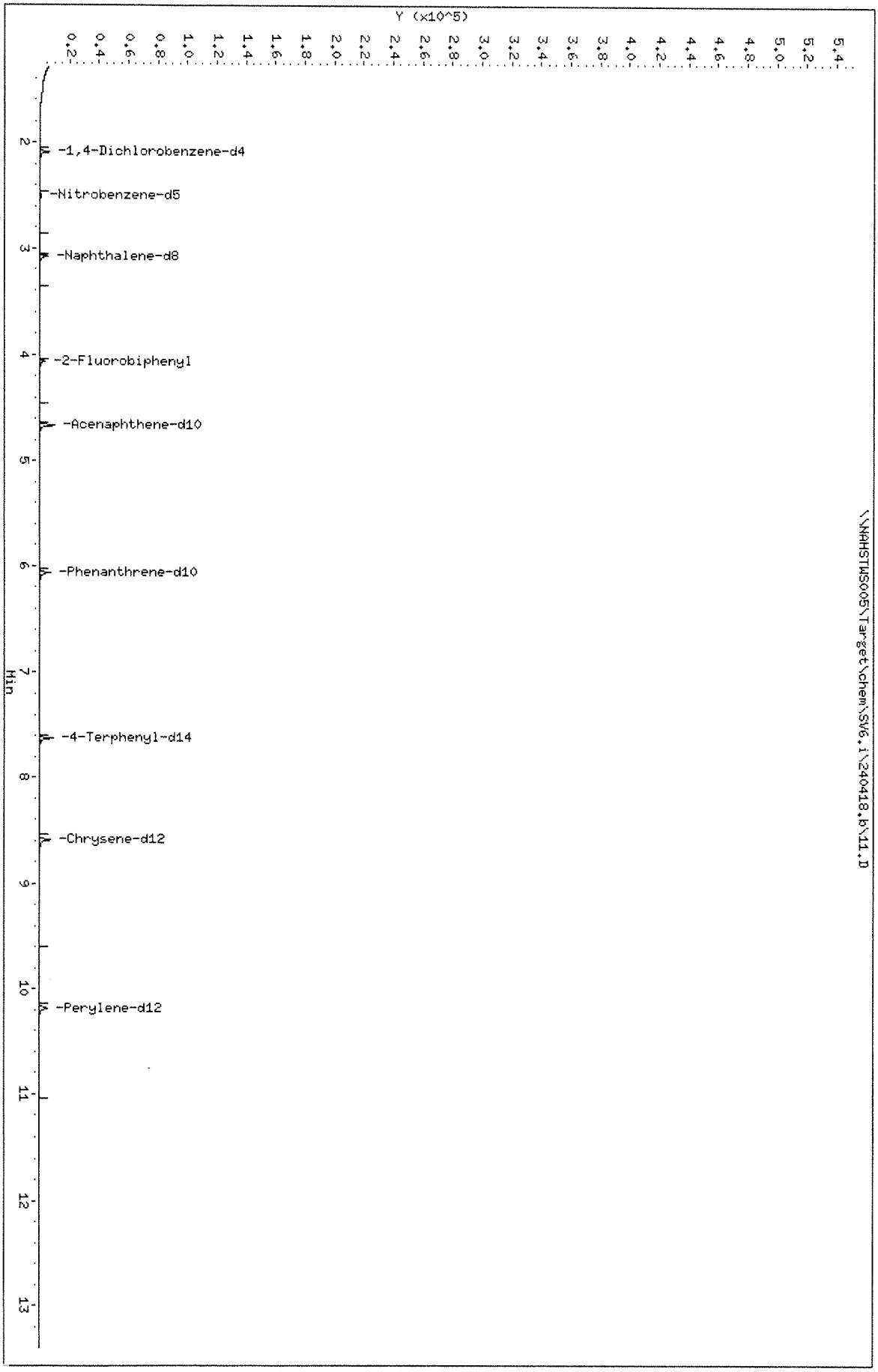
Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)	
* 20 1,4-Dichlorobenzene-d4	152	2.094	2.089	(1.000)	2645	0.10000		(aM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	7708	0.10000		(M)
$ 33 Nitrobenzene-d5	82	2.496	2.502	(0.812)	1691	0.07308	0.07308	(M)
* 86 Acenaphthene-d10	164	4.665	4.671	(1.000)	5072	0.10000		(M)
$ 69 2-Fluorobiphenyl	172	4.063	4.067	(0.871)	5460	0.07042	0.07042	(M)
* 126 Phenanthrene-d10	188	6.065	6.065	(1.000)	10292	0.10000		(M)
* 182 Chrysene-d12	240	8.593	8.599	(1.000)	7884	0.10000		(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.888)	11331	0.07055	0.07055	(M)
* 198 Perylene-d12	264	10.184	10.189	(1.000)	8007	0.10000		
1 1,4-Dioxane	58	0.838	0.820	(0.400)	429	0.07572	0.07572	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Date : 18-APR-2024 14:53
Client ID: 14DX ICV-0.08
Sample Info: 14DX ICV-0.08
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

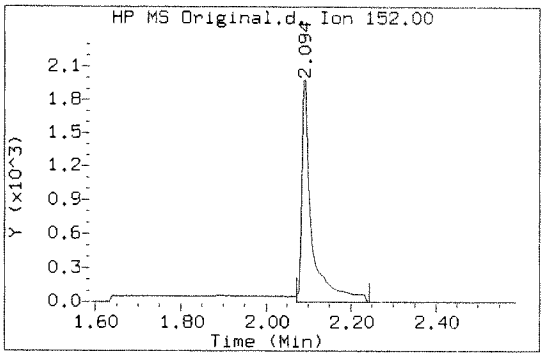
Instrument: SV6.i
Operator: LG
Column diameter: 0.28

Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

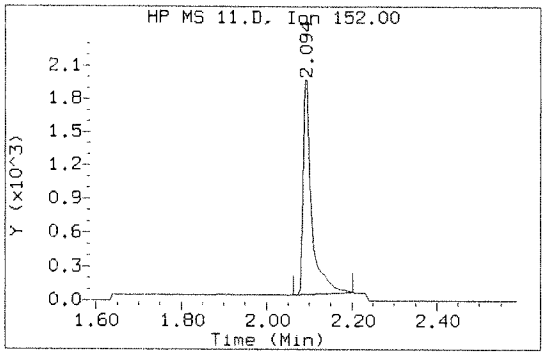
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

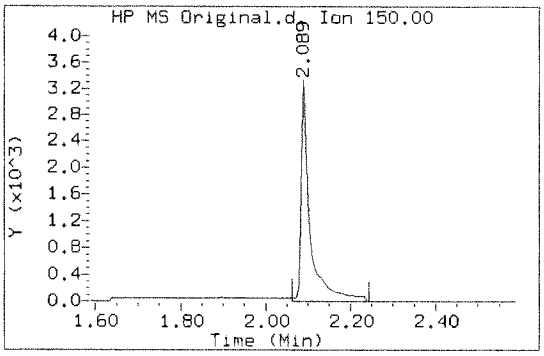
BEFORE
MASS
152
AREA
3284
HEIGHT
1978
18-Apr-2024
15:08
ALSHS
Server



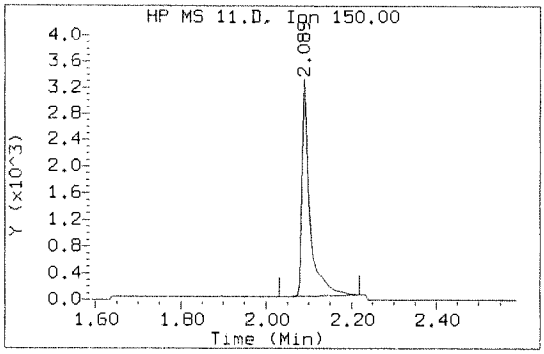
AFTER
MASS
152
AREA
2645
HEIGHT
1921
05-Jun-2024
11:49
ALSHS



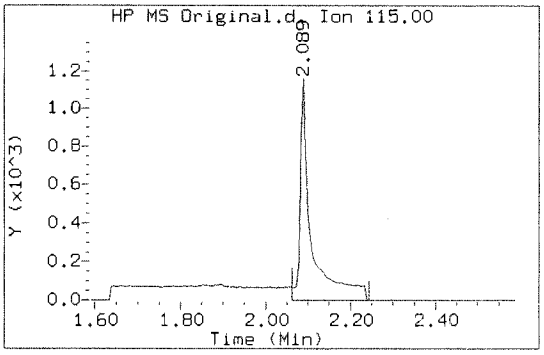
BEFORE
MASS
150
AREA
4880
HEIGHT
3340
18-Apr-2024
15:08
ALSHS
Server



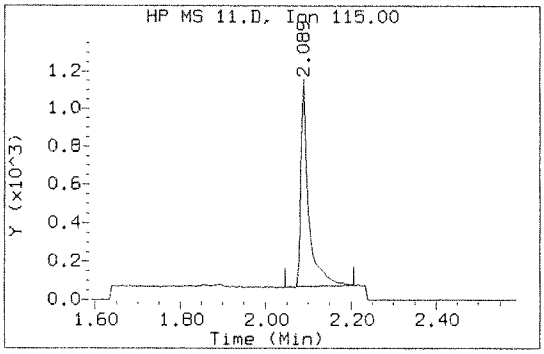
AFTER
MASS
150
AREA
4160
HEIGHT
3281
05-Jun-2024
11:49
ALSHS



BEFORE
MASS
115
AREA
2134
HEIGHT
1161
18-Apr-2024
15:08
ALSHS
Server



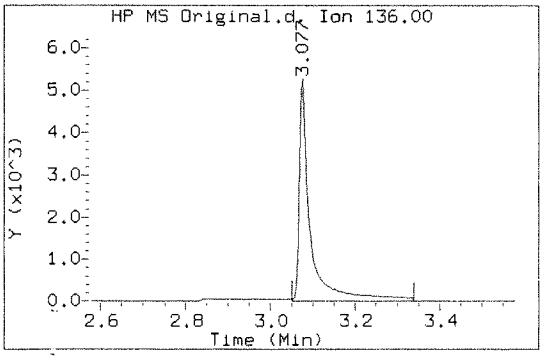
AFTER
MASS
115
AREA
1363
HEIGHT
1092
05-Jun-2024
11:49
ALSHS



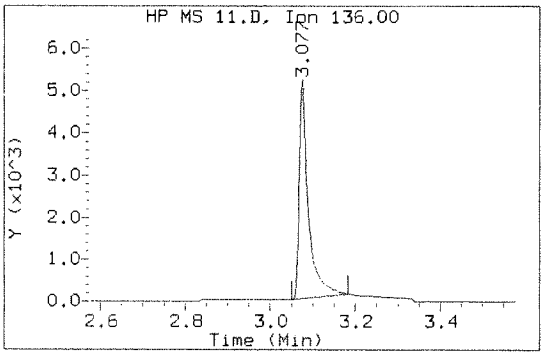
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
9692
HEIGHT
5268
18-Apr-2024
15:08
ALSHS
Server



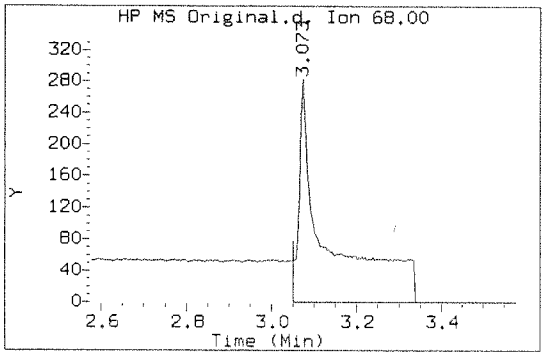
AFTER
MASS
136
AREA
7708
HEIGHT
5193
05-Jun-2024
11:49
ALSHS



Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

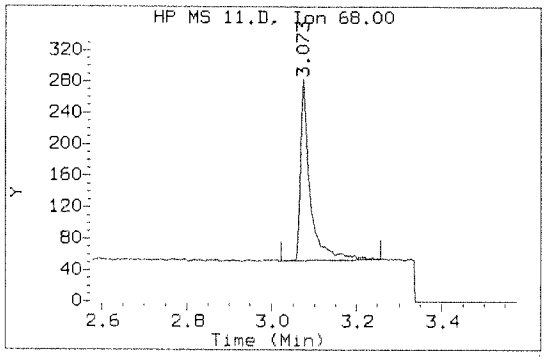
Naphthalene-d8 (1146-65-2)

BEFORE
MASS
68
AREA
1275
HEIGHT
283
18-Apr-2024
15:08
ALSHS
Server



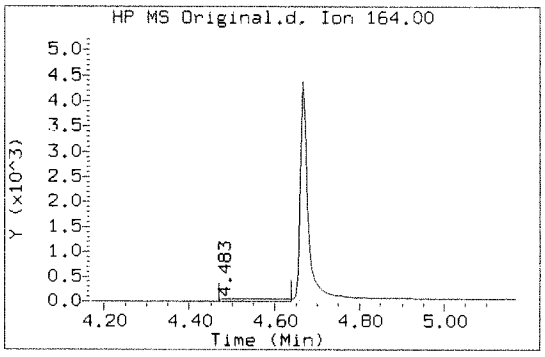
Reason Code:

AFTER
MASS
68
AREA
353
HEIGHT
230
05-Jun-2024
11:49
ALSHS



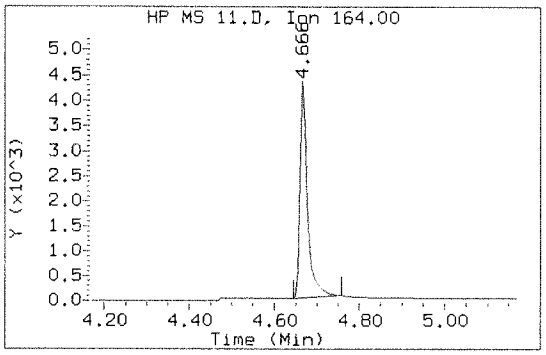
Acenaphthene-d10 (15067-26-2)

BEFORE
MASS
164
AREA
510
HEIGHT
52
18-Apr-2024
15:08
ALSHS
Server

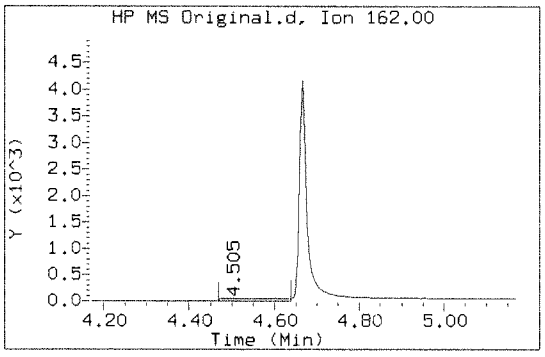


Reason Code:

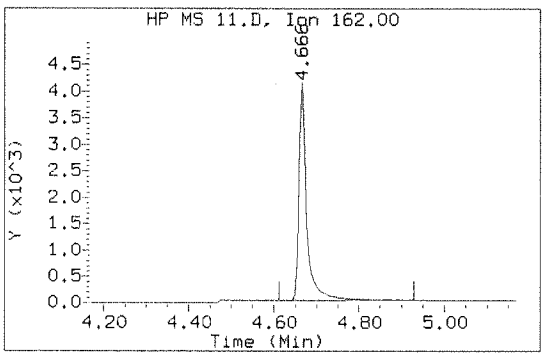
AFTER
MASS
164
AREA
5072
HEIGHT
4329
05-Jun-2024
11:49
ALSHS



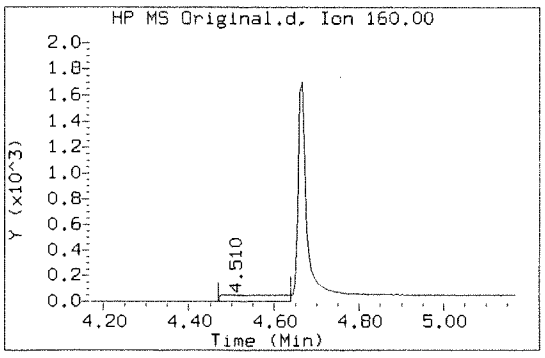
BEFORE
MASS
162
AREA
503
HEIGHT
52
18-Apr-2024
15:08
ALSHS
Server



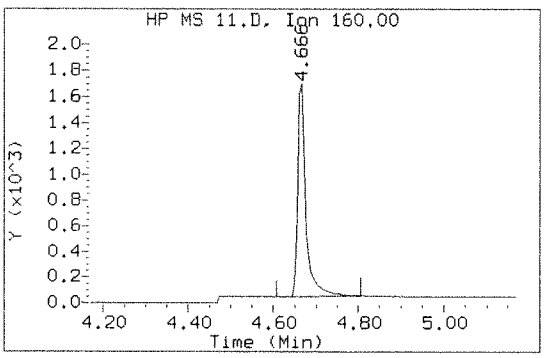
AFTER
MASS
162
AREA
5122
HEIGHT
4113
05-Jun-2024
11:49
ALSHS



BEFORE
MASS
160
AREA
484
HEIGHT
49
18-Apr-2024
15:08
ALSHS
Server



AFTER
MASS
160
AREA
2174
HEIGHT
1653
05-Jun-2024
11:49
ALSHS

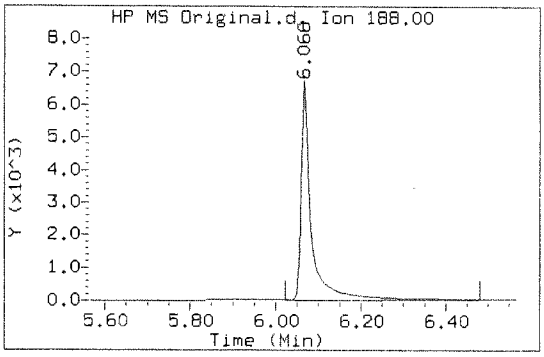


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

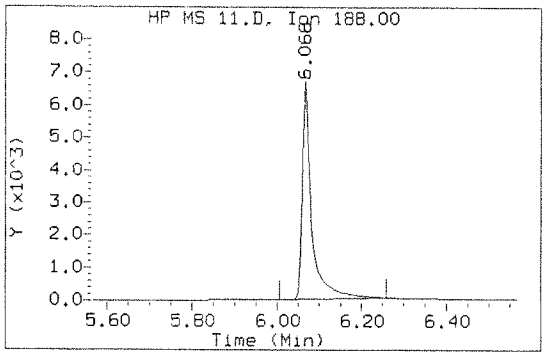
Phenanthrene-d10 (1517-22-2)

Reason Code:

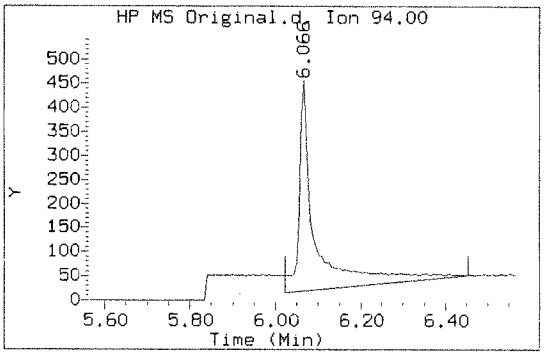
BEFORE
MASS
188
AREA
11412
HEIGHT
6713
18-Apr-2024
15:08
ALSHS
Server



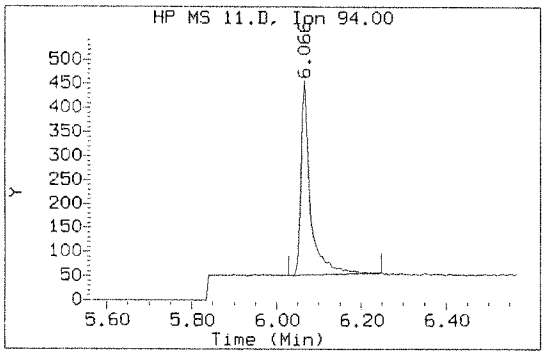
AFTER
MASS
188
AREA
10292
HEIGHT
6674
05-Jun-2024
11:49
ALSHS



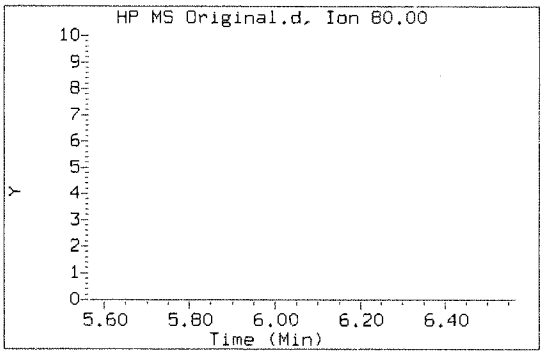
BEFORE
MASS
94
AREA
1149
HEIGHT
437
18-Apr-2024
15:08
ALSHS
Server



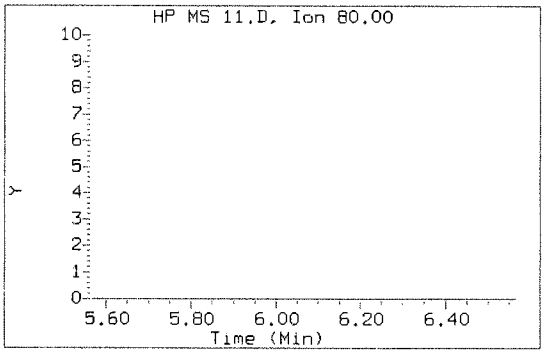
AFTER
MASS
94
AREA
624
HEIGHT
404
05-Jun-2024
11:49
ALSHS



BEFORE
MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
15:08
ALSHS
Server



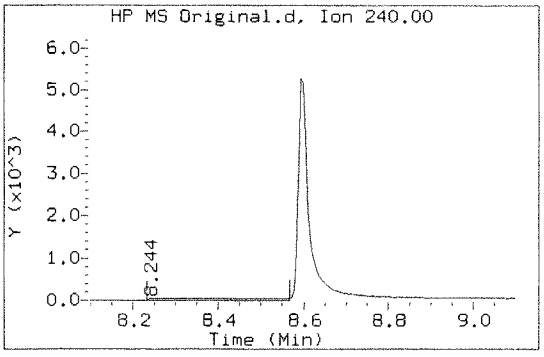
AFTER
MASS
80
AREA
0
HEIGHT
0
05-Jun-2024
11:49
ALSHS



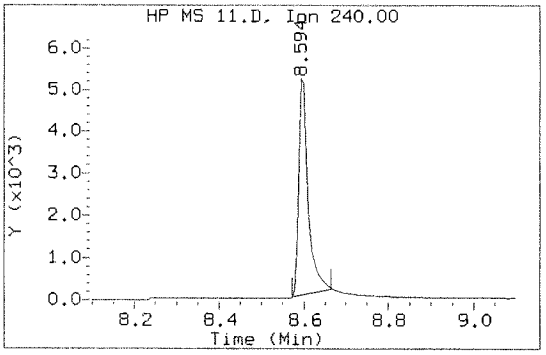
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
945
HEIGHT
48
18-Apr-2024
15:08
ALSHS
Server



AFTER
MASS
240
AREA
7884
HEIGHT
5168
05-Jun-2024
11:49
ALSHS

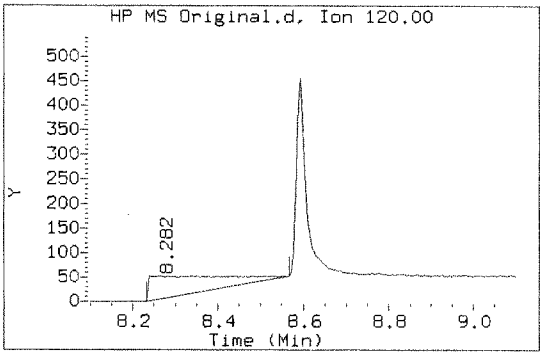


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

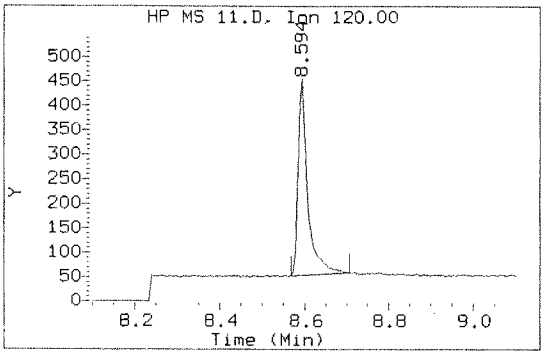
Chrysene-d12 (1719-03-5)

Reason Code:

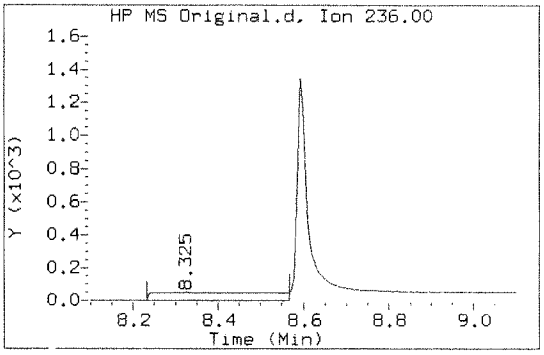
BEFORE
MASS
120
AREA
488
HEIGHT
45
18-Apr-2024
15:08
ALSHS
Server



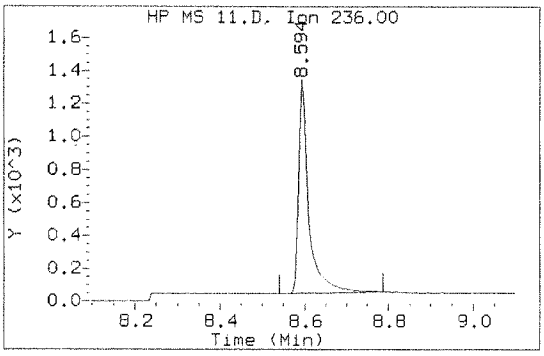
AFTER
MASS
120
AREA
625
HEIGHT
400
05-Jun-2024
11:49
ALSHS



BEFORE
MASS
236
AREA
948
HEIGHT
49
18-Apr-2024
15:08
ALSHS
Server



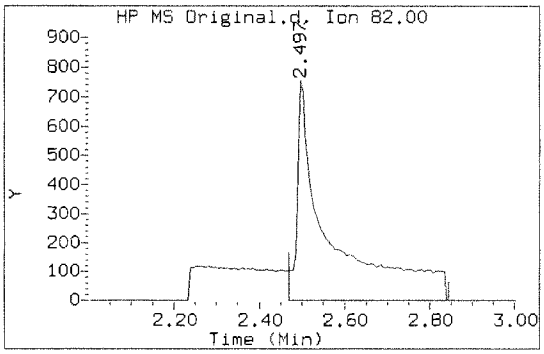
AFTER
MASS
236
AREA
2142
HEIGHT
1296
05-Jun-2024
11:49
ALSHS



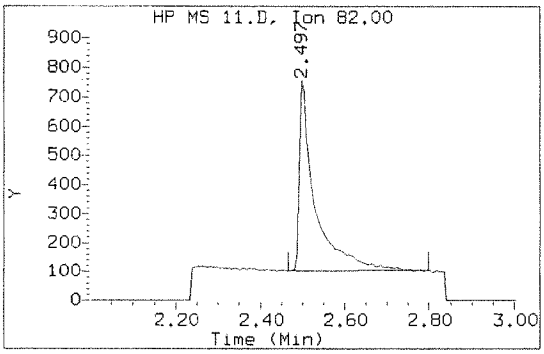
Nitrobenzene-d5 (4165-60-0)

Reason Code:

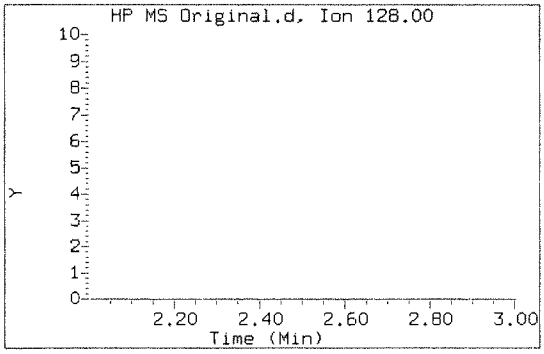
BEFORE
MASS
82
AREA
3957
HEIGHT
756
18-Apr-2024
15:08
ALSHS
Server



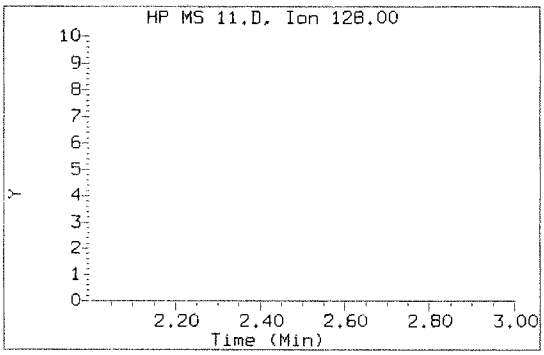
AFTER
MASS
82
AREA
1691
HEIGHT
653
05-Jun-2024
11:49
ALSHS



BEFORE
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
15:08
ALSHS
Server



AFTER
MASS
128
AREA
0
HEIGHT
0
05-Jun-2024
11:49
ALSHS

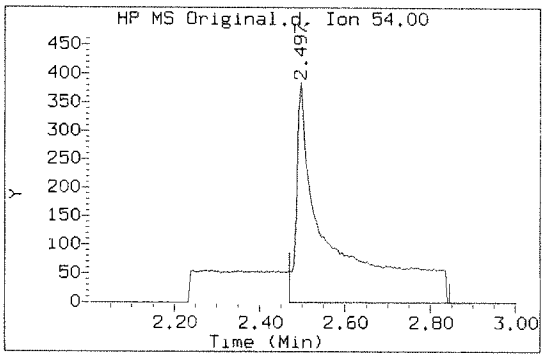


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

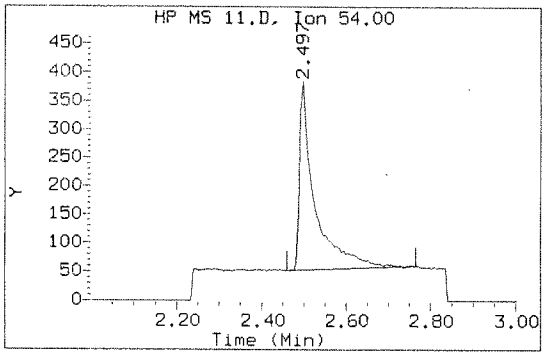
Nitrobenzene-d5 (4165-60-0)

Reason Code:

BEFORE
MASS
54
AREA
2061
HEIGHT
385
18-Apr-2024
15:08
ALSHS
Server



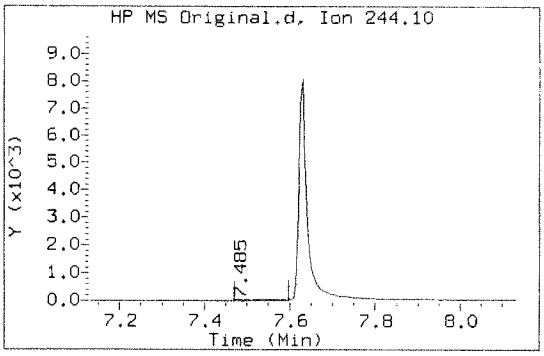
AFTER
MASS
54
AREA
818
HEIGHT
332
05-Jun-2024
11:49
ALSHS



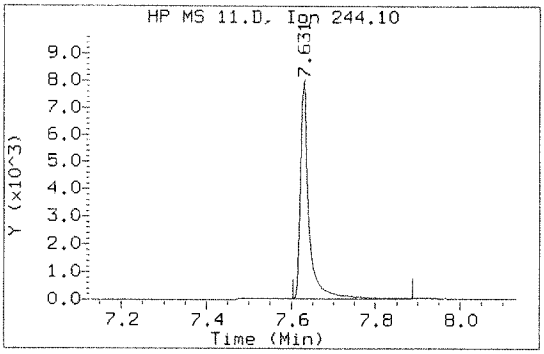
4-Terphenyl-d14 (1718-51-0)

Reason Code:

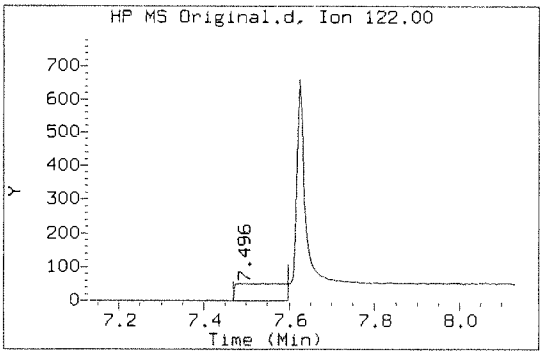
BEFORE
MASS
244.1
AREA
363
HEIGHT
48
18-Apr-2024
15:08
ALSHS
Server



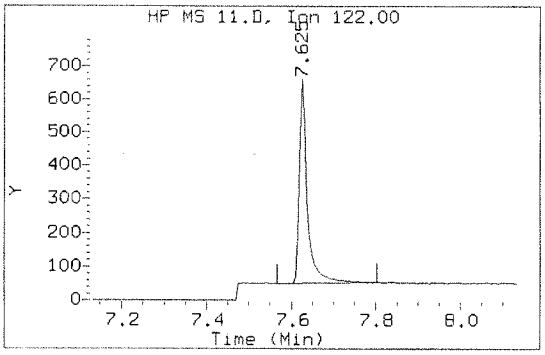
AFTER
MASS
244.1
AREA
11331
HEIGHT
8023
05-Jun-2024
11:49
ALSHS



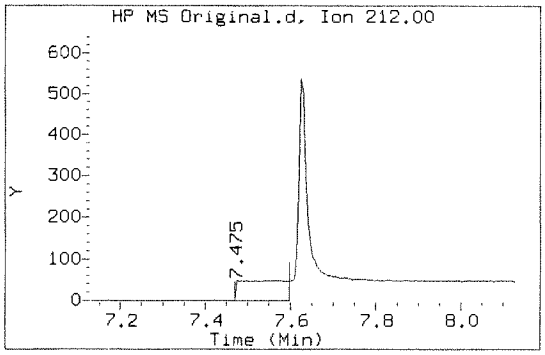
BEFORE
MASS
122
AREA
387
HEIGHT
52
18-Apr-2024
15:08
ALSHS
Server



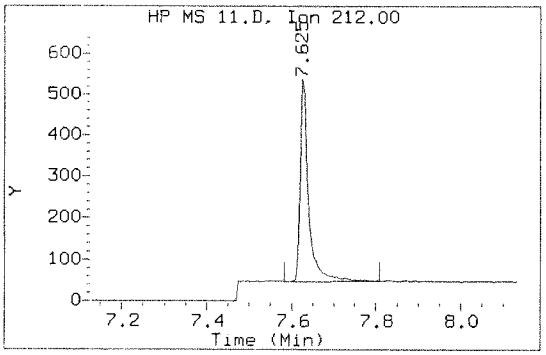
AFTER
MASS
122
AREA
801
HEIGHT
611
05-Jun-2024
11:49
ALSHS



BEFORE
MASS
212
AREA
367
HEIGHT
48
18-Apr-2024
15:08
ALSHS
Server



AFTER
MASS
212
AREA
675
HEIGHT
490
05-Jun-2024
11:49
ALSHS

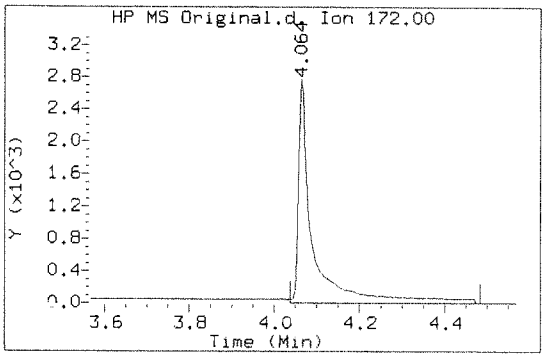


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

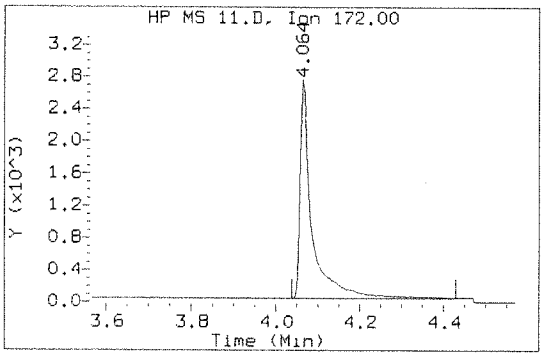
2-Fluorobiphenyl (321-60-8)

Reason Code:

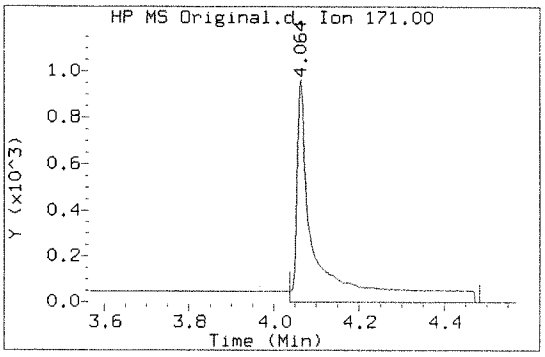
BEFORE
MASS
172
AREA
6739
HEIGHT
2770
18-Apr-2024
15:08
ALSHS
Server



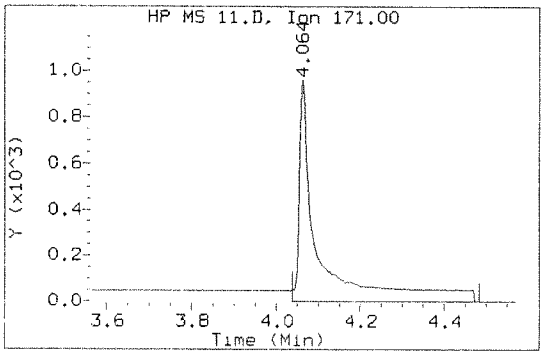
AFTER
MASS
172
AREA
5460
HEIGHT
2724
05-Jun-2024
11:49
ALSHS



BEFORE
MASS
171
AREA
3102
HEIGHT
964
18-Apr-2024
15:08
ALSHS
Server



AFTER
MASS
171
AREA
3102
HEIGHT
964
05-Jun-2024
11:49
ALSHS



right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24060434

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 18/24

07/18/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Data File: \\NAHSTWS005\Target\chem\SV6.i\240620.b\01.D Page 1
Report Date: 20-Jun-2024 10:56

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\SV6.i\240620.b\01.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 20-JUN-2024 10:05
Operator : smith Inst ID: SV6.i
Smp Info : DFTPP;DFTPP;3;;DFTPP
Misc Info :
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240620.b\DFTPP.m
Meth Date : 14-Mar-2023 15:58 Linh.Pham Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: DFTPP
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: None
Processing Host: NAHSTW7095

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 dftpp						CAS #: 5074-71-5		
4.234	5.571	-1.337	198	119864			0.00- 100.00	83.50
4.234	6.357	-2.123	51	31615			10.00- 80.00	26.38
4.234	6.357	-2.123	68	625			0.00- 2.00	1.75
4.234	6.357	-2.123	69	35800			0.00- 0.00	29.87
4.234	6.357	-2.123	70	218			0.00- 2.00	0.61
4.234	6.357	-2.123	127	48208			10.00- 80.00	40.22
4.234	6.357	-2.123	197	0	0.0	0.0	0.00- 2.00	0.00
4.234	6.357	-2.123	199	8204			5.00- 9.00	6.84
4.234	6.357	-2.123	275	33704			10.00- 60.00	28.12
4.234	6.357	-2.123	365	3745			1.00- 100.00	3.12
4.234	6.357	-2.123	441	20624			0.01- 99.99	72.19
4.234	6.357	-2.123	442	143552			50.00- 150.00	119.76
4.234	6.357	-2.123	443	28568			15.00- 24.00	19.90

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	26.38
68	Less than 2.00% of mass 69	0.52 (1.75)
69	Mass 69 relative abundance	29.87
70	Less than 2.00% of mass 69	0.18 (0.61)
127	10.00 - 80.00% of mass 198	40.22
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.84
275	10.00 - 60.00% of mass 198	28.12
365	1.00 - 100.00% of mass 198	3.12
441	Present, but less than mass 443	17.21
442	50.00 - 150.00% of mass 198	119.76
443	15.00 - 24.00% of mass 442	23.83 (19.90)

Data File: 01.D
Spectrum: HP ChemStation MS 01.D, Scan 307: 4.229 min. (SUB)
Location of Maximum: 442.00
Number of points: 241

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.10	401	125.00	516	194.00	379	276.90	2427
39.10	2456	125.80	312	195.00	356	277.90	383
48.90	301	127.00	48208	196.00	3571	282.80	311
50.00	8178	128.00	3782	197.90	119864	284.10	256
51.10	31608	129.00	18896	198.90	8204	285.00	494
52.00	1613	129.90	1646	199.90	551	293.00	488
54.90	181	131.00	372	201.50	605	294.00	189
56.00	952	133.90	460	202.90	663	295.00	345
57.00	2616	135.00	1649	204.00	4342	296.00	8593
60.90	452	135.90	545	205.00	6494	297.00	1081
61.90	436	137.00	739	206.00	29704	301.00	219
63.00	1437	138.00	186	207.00	4274	302.90	1198
64.00	278	140.00	353	207.90	900	304.00	366
65.10	550	141.00	2418	208.90	272	307.90	269
68.10	625	141.80	779	209.90	468	314.00	250
69.00	35800	143.00	540	210.90	1142	314.90	757
69.90	218	146.00	436	211.90	222	315.90	615
73.10	404	147.00	1127	214.90	385	317.00	170
74.00	3608	148.00	2744	216.00	805	320.90	288
75.00	5692	149.00	598	216.90	7073	321.90	280
76.00	1939	150.00	153	218.00	900	323.00	3012
77.00	41040	151.10	275	221.00	5998	324.10	577
78.00	2839	152.90	696	221.70	1369	326.90	646
79.00	3059	153.90	451	222.90	1766	327.80	366
80.00	1937	155.00	1352	224.00	17216	331.80	163
81.00	3058	156.00	1963	225.00	4490	333.00	336
82.00	668	157.00	218	226.10	489	334.00	1773
82.90	497	157.80	458	227.00	6803	335.00	509
84.90	643	158.80	301	228.00	1000	340.90	364
86.00	861	159.80	671	229.00	1596	345.90	395
86.90	369	161.00	1037	230.00	249	352.00	922
87.90	240	161.80	373	231.00	691	353.00	768
90.80	537	164.00	264	234.00	334	354.00	987
91.90	709	164.90	748	235.00	395	355.00	205
93.00	4472	165.90	702	235.90	279	364.90	3745
94.00	357	167.00	4734	237.00	742	366.00	522
96.00	296	168.00	2061	238.90	235	371.00	387
97.00	171	169.00	400	240.00	327	372.00	1487
98.00	3449	169.80	250	240.90	259	372.80	326
99.00	2755	170.70	261	242.00	885	382.90	561
99.80	282	171.80	331	243.00	1074	389.90	299
100.90	1605	172.90	670	244.00	13899	390.90	198
102.90	500	174.00	1156	245.00	1674	391.90	150
103.90	1131	175.00	1843	245.90	2468	402.00	623
105.00	886	175.90	796	246.90	538	402.90	1153

106.00 537	177.00 789	248.90 511	404.00 332
107.00 13469	177.90 361	250.80 197	420.90 1214
108.00 2022	179.00 4036	252.30 186	422.00 885
109.00 409	179.90 2475	253.00 422	423.00 6674
110.00 25608	181.00 1366	255.00 73456	424.00 1663
111.00 3550	182.10 189	256.00 10987	425.00 164
111.90 381	184.00 386	257.00 1108	438.50 162
112.80 160	184.90 1661	257.90 3238	439.20 334
116.10 635	186.00 14874	259.00 530	441.00 20624
117.00 8928	187.00 3880	264.90 1392	442.00 143552
118.00 786	187.90 627	265.90 278	443.00 28568
119.00 177	189.00 706	271.90 227	444.00 2951
119.80 169	189.80 227	272.90 2097	444.80 218
121.90 787	191.00 463	274.00 5575	
123.00 1197	191.90 1183	275.00 33704	
124.00 702	192.90 1607	276.00 3975	

Data File: \\NAHSTWS005\Target\chem\SV6.i\240620.b\01.D Page 1

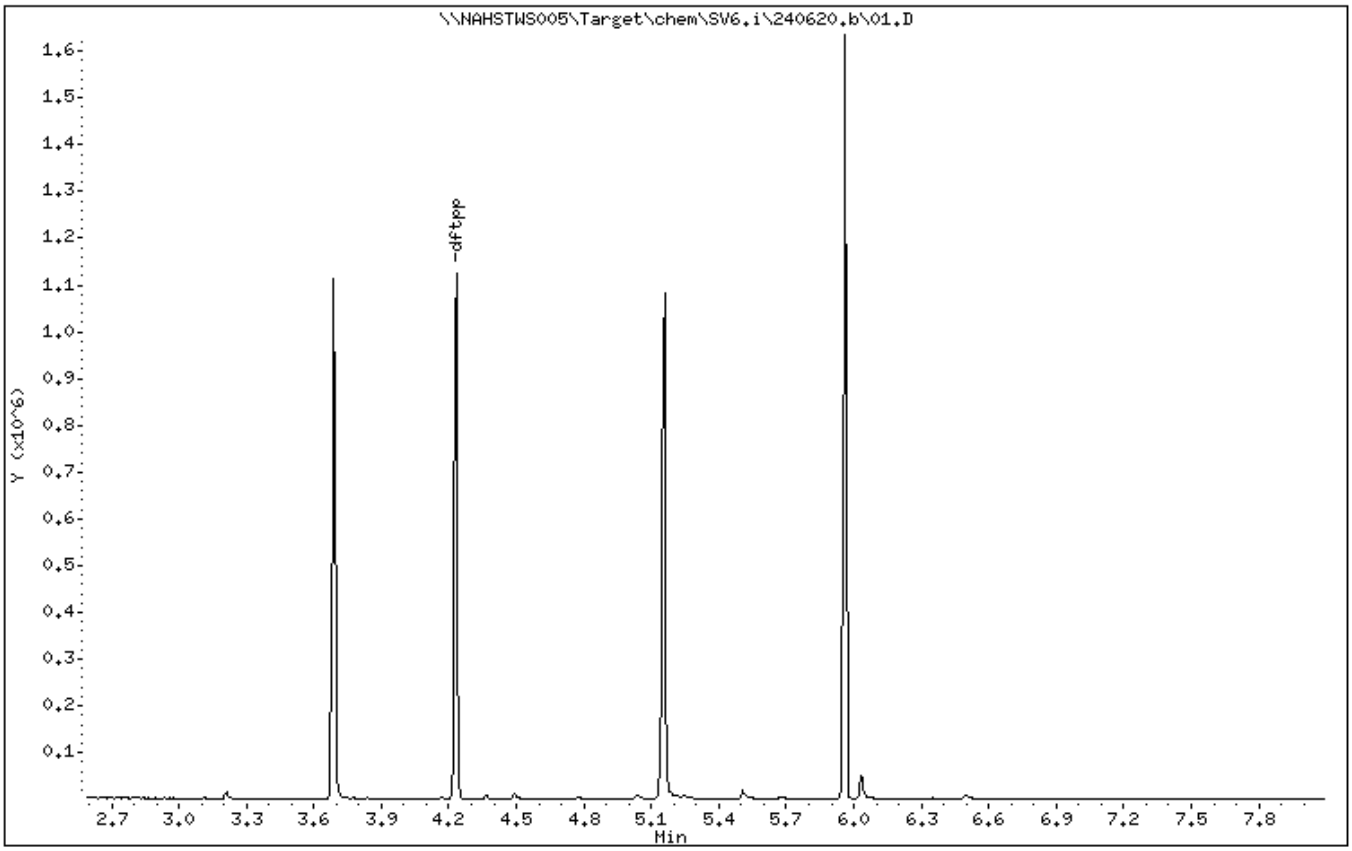
Date : 20-JUN-2024 10:05

Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\SV6.i\240620.b\01.D Page 2

Date : 20-JUN-2024 10:05

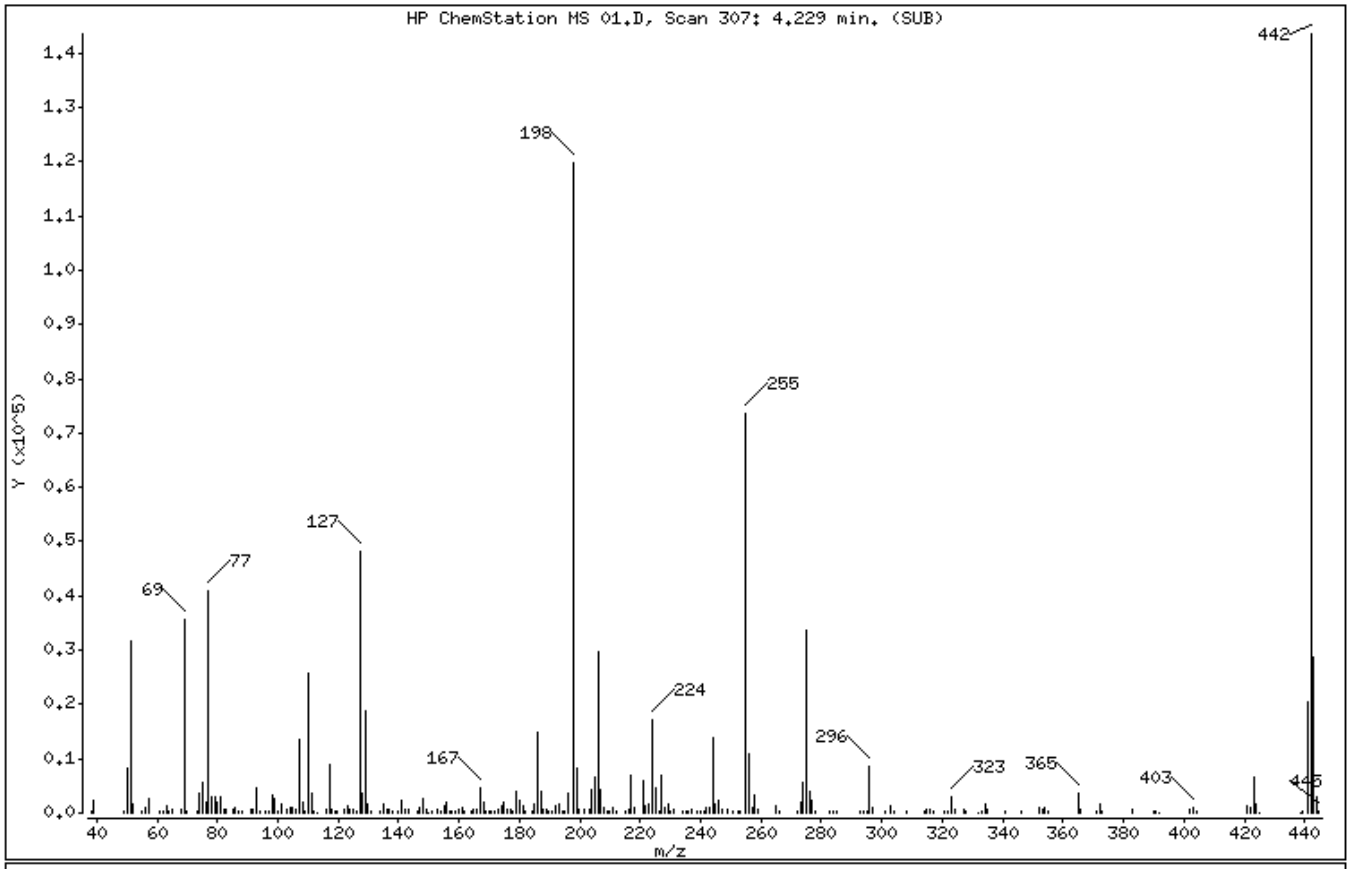
Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	26.38
68	Less than 2.00% of mass 69	0.52 (1.75)
69	Mass 69 relative abundance	29.87
70	Less than 2.00% of mass 69	0.18 (0.61)
127	10.00 - 80.00% of mass 198	40.22
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.84
275	10.00 - 60.00% of mass 198	28.12
365	1.00 - 100.00% of mass 198	3.12
441	Present, but less than mass 443	17.21
442	50.00 - 150.00% of mass 198	119.76
443	15.00 - 24.00% of mass 442	23.83 (19.90)

Data File: \\NAHSTWS005\Target\chem\SV6.i\240620.b\01.D Page 3

Date : 20-JUN-2024 10:05

Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25

Data File: 01.D
Spectrum: HP ChemStation MS 01.D, Scan 307: 4.229 min. (SUB)
Location of Maximum: 442.00
Number of points: 241

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.10	401	125.00	516	194.00	379	276.90	2427
39.10	2456	125.80	312	195.00	356	277.90	383
48.90	301	127.00	48208	196.00	3571	282.80	311
50.00	8178	128.00	3782	197.90	119864	284.10	256
51.10	31608	129.00	18896	198.90	8204	285.00	494
52.00	1613	129.90	1646	199.90	551	293.00	488
54.90	181	131.00	372	201.50	605	294.00	189
56.00	952	133.90	460	202.90	663	295.00	345
57.00	2616	135.00	1649	204.00	4342	296.00	8593
60.90	452	135.90	545	205.00	6494	297.00	1081
61.90	436	137.00	739	206.00	29704	301.00	219
63.00	1437	138.00	186	207.00	4274	302.90	1198
64.00	278	140.00	353	207.90	900	304.00	366
65.10	550	141.00	2418	208.90	272	307.90	269
68.10	625	141.80	779	209.90	468	314.00	250
69.00	35800	143.00	540	210.90	1142	314.90	757
69.90	218	146.00	436	211.90	222	315.90	615
73.10	404	147.00	1127	214.90	385	317.00	170
74.00	3608	148.00	2744	216.00	805	320.90	288
75.00	5692	149.00	598	216.90	7073	321.90	280
76.00	1939	150.00	153	218.00	900	323.00	3012
77.00	41040	151.10	275	221.00	5998	324.10	577
78.00	2839	152.90	696	221.70	1369	326.90	646
79.00	3059	153.90	451	222.90	1766	327.80	366
80.00	1937	155.00	1352	224.00	17216	331.80	163
81.00	3058	156.00	1963	225.00	4490	333.00	336
82.00	668	157.00	218	226.10	489	334.00	1773
82.90	497	157.80	458	227.00	6803	335.00	509
84.90	643	158.80	301	228.00	1000	340.90	364
86.00	861	159.80	671	229.00	1596	345.90	395
86.90	369	161.00	1037	230.00	249	352.00	922
87.90	240	161.80	373	231.00	691	353.00	768
90.80	537	164.00	264	234.00	334	354.00	987
91.90	709	164.90	748	235.00	395	355.00	205
93.00	4472	165.90	702	235.90	279	364.90	3745

Data File: \\NAHSTWS005\Target\chem\SV6.i\240620.b\01.D Page 4

Date : 20-JUN-2024 10:05

Client ID: DFTPP Instrument: SV6.i

Sample Info: DFTPP;DFTPP;3;;DFTPP

Operator: smith

Column phase: DB-5MS Column diameter: 0.25

Data File: 01.D
Spectrum: HP ChemStation MS 01.D, Scan 307: 4.229 min. (SUB)
Location of Maximum: 442.00
Number of points: 241

m/z	Y	m/z	Y	m/z	Y	m/z	Y
94.00	357	167.00	4734	237.00	742	366.00	522
96.00	296	168.00	2061	238.90	235	371.00	387
97.00	171	169.00	400	240.00	327	372.00	1487
98.00	3449	169.80	250	240.90	259	372.80	326
99.00	2755	170.70	261	242.00	885	382.90	561
99.80	282	171.80	331	243.00	1074	389.90	299
100.90	1605	172.90	670	244.00	13899	390.90	198
102.90	500	174.00	1156	245.00	1674	391.90	150
103.90	1131	175.00	1843	245.90	2468	402.00	623
105.00	886	175.90	796	246.90	538	402.90	1153
106.00	537	177.00	789	248.90	511	404.00	332
107.00	13469	177.90	361	250.80	197	420.90	1214
108.00	2022	179.00	4036	252.30	186	422.00	885
109.00	409	179.90	2475	253.00	422	423.00	6674
110.00	25608	181.00	1366	255.00	73456	424.00	1663
111.00	3550	182.10	189	256.00	10987	425.00	164
111.90	381	184.00	386	257.00	1108	438.50	162
112.80	160	184.90	1661	257.90	3238	439.20	334
116.10	635	186.00	14874	259.00	530	441.00	20624
117.00	8928	187.00	3880	264.90	1392	442.00	143552
118.00	786	187.90	627	265.90	278	443.00	28568
119.00	177	189.00	706	271.90	227	444.00	2951
119.80	169	189.80	227	272.90	2097	444.80	218
121.90	787	191.00	463	274.00	5575		
123.00	1197	191.90	1183	275.00	33704		
124.00	702	192.90	1607	276.00	3975		

Data File: \\NAHSTWS005\Target\chem\SV6.i\240620.b\04.D Page 1
Report Date: 20-Jun-2024 11:56

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240620.b\04.D
Lab Smp Id: 14DX-0.08 Client Smp ID: 14DX-0.08
Inj Date : 20-JUN-2024 11:36
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240620.b\DXSIM.m
Meth Date : 20-Jun-2024 11:53 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7095

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.151	2.151	(1.000)	1770	0.10000	(aQM)
* 45 Naphthalene-d8	136	3.141	3.141	(1.000)	5755	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.559	2.559	(0.815)	1238	0.08000	0.07166(M)
* 86 Acenaphthene-d10	164	4.737	4.737	(1.000)	3395	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.130	4.130	(0.872)	3810	0.08000	0.07341(M)
* 126 Phenanthrene-d10	188	6.142	6.142	(1.000)	6836	0.10000	(M)
* 182 Chrysene-d12	240	8.680	8.680	(1.000)	6347	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.707	7.707	(0.888)	8725	0.08000	0.06748(M)
* 198 Perylene-d12	264	10.305	10.305	(1.000)	5782	0.10000	(M)
1 1,4-Dioxane	58	0.886	0.886	(0.412)	262	0.08000	0.06911(QM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240620.b\04.D

Date : 20-JUN-2024 11:36

Client ID: 14DX-0.08

Instrument: SV6.i

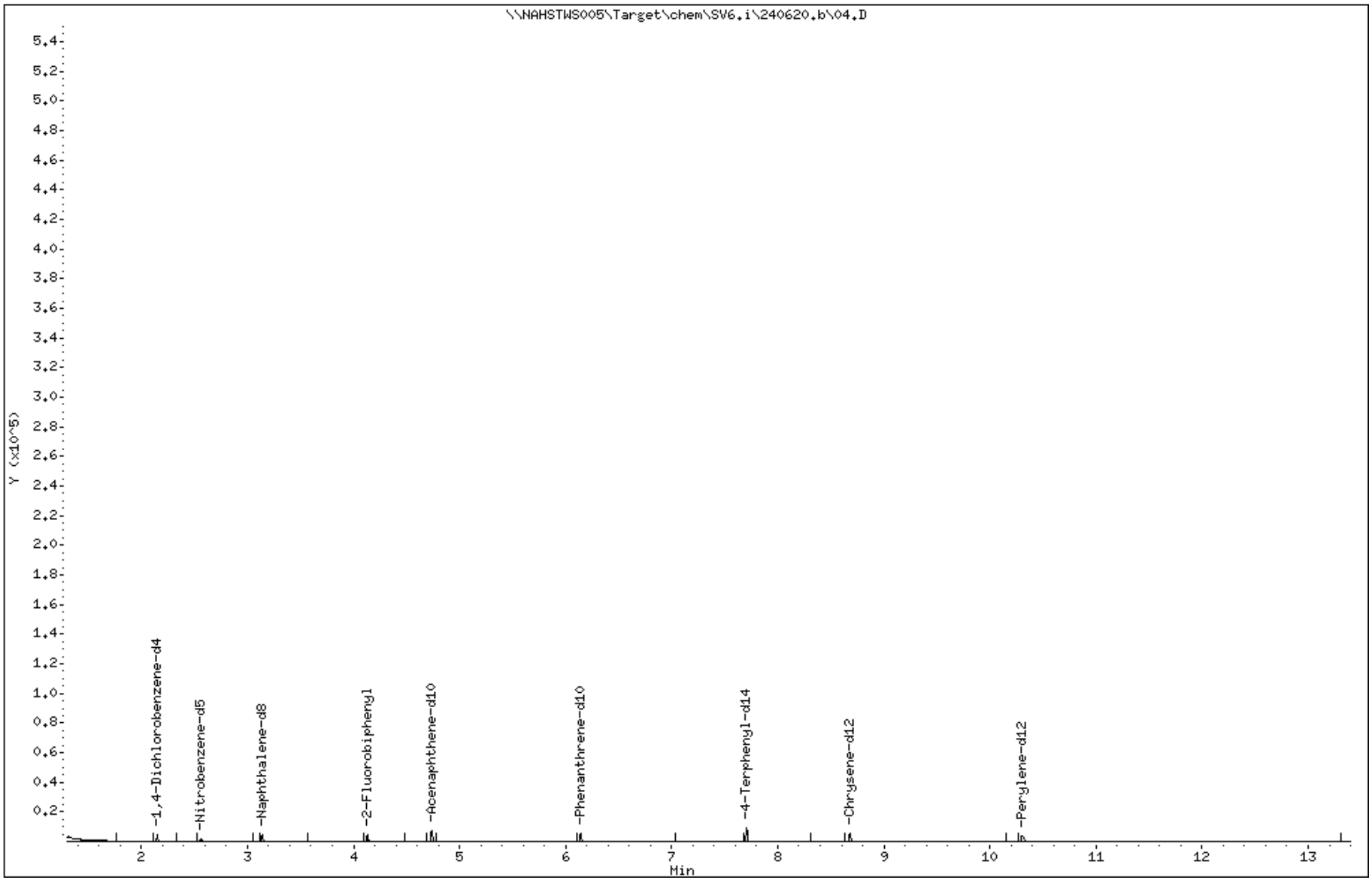
Sample Info: 14DX-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



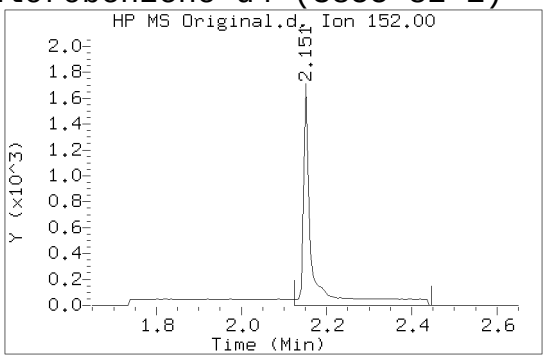
Data File : \\NAHSTWS005\Target\chem\SV6.i\240620.b\04.D
Inj Date : 20-JUN-2024 11:36
InstruID : SV6.i
LabSampID : 14DX-0.08

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

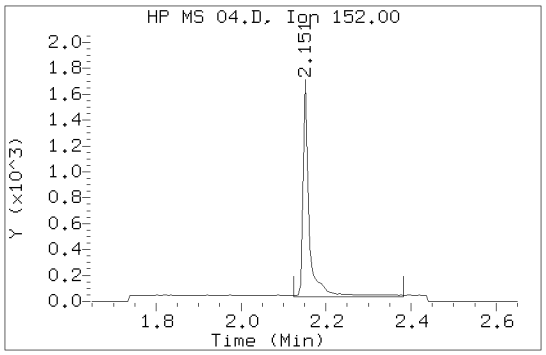
BEFORE

MASS
152
AREA
2458
HEIGHT
1712
20-Jun-2024
11:50
ALSHS
Server



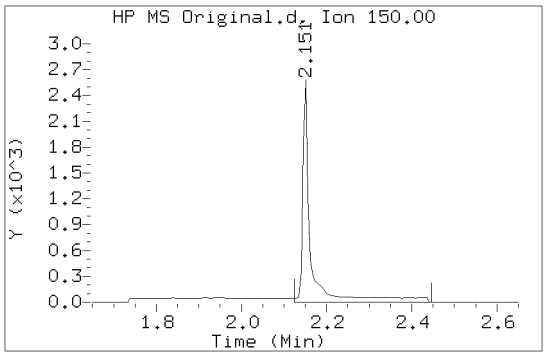
AFTER

MASS
152
AREA
1770
HEIGHT
1678
20-Jun-2024
11:56



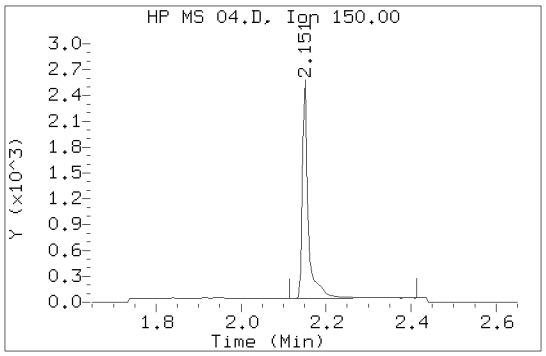
BEFORE

MASS
150
AREA
3366
HEIGHT
2581
20-Jun-2024
11:50
ALSHS
Server



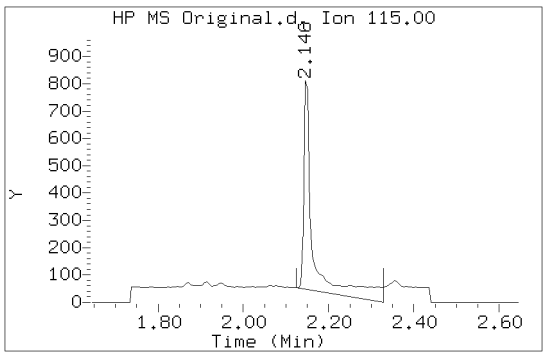
AFTER

MASS
150
AREA
2452
HEIGHT
2533
20-Jun-2024
11:56



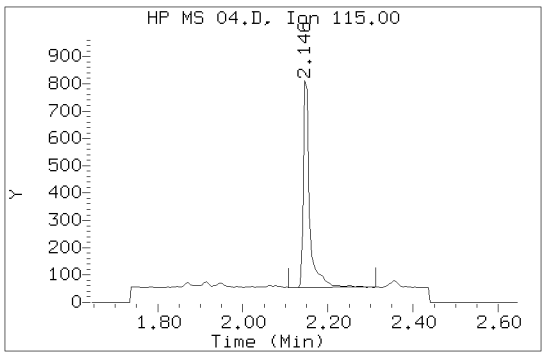
BEFORE

MASS
115
AREA
1149
HEIGHT
762
20-Jun-2024
11:50
ALSHS
Server



AFTER

MASS
115
AREA
803
HEIGHT
757
20-Jun-2024
11:56

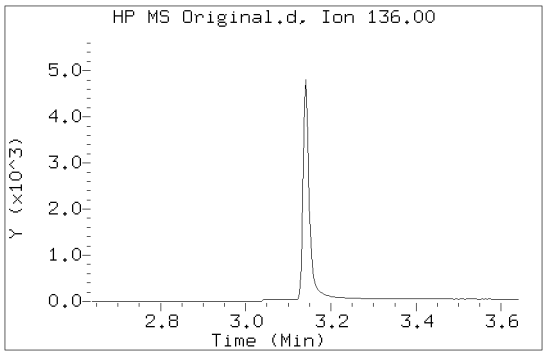


Naphthalene-d8 (1146-65-2)

Reason Code:

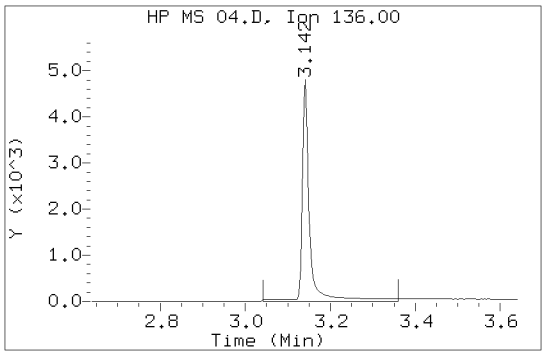
BEFORE

MASS
136
AREA
0
HEIGHT
0
20-Jun-2024
11:50
ALSHS
Server



AFTER

MASS
136
AREA
5755
HEIGHT
4800
20-Jun-2024
11:56



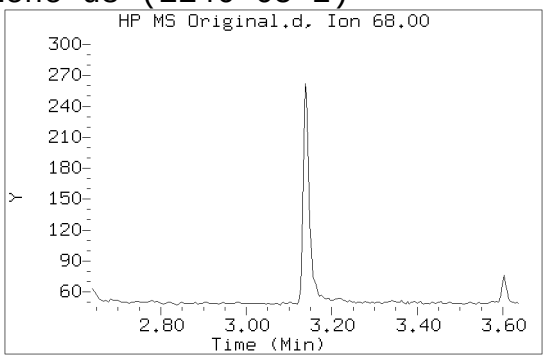
Data File : \\NAHSTWS005\Target\chem\SV6.i\240620.b\04.D
Inj Date : 20-JUN-2024 11:36
InstruID : SV6.i
LabSampID : 14DX-0.08

Naphthalene-d8 (1146-65-2)

Reason Code:

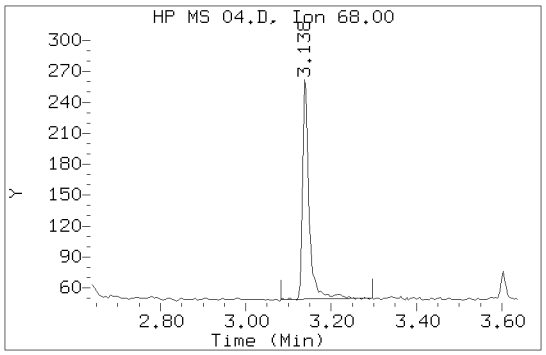
BEFORE

MASS
68
AREA
0
HEIGHT
0
20-Jun-2024
11:50
ALSHS
Server



AFTER

MASS
68
AREA
232
HEIGHT
212
20-Jun-2024
11:56

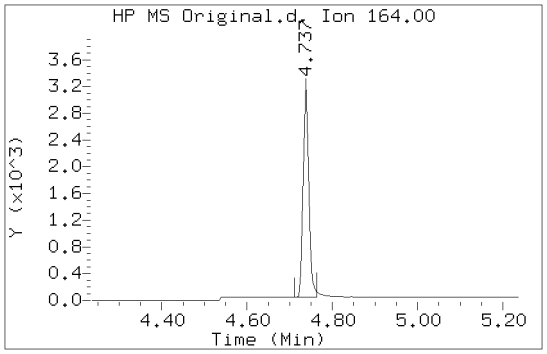


Acenaphthene-d10 (15067-26-2)

Reason Code:

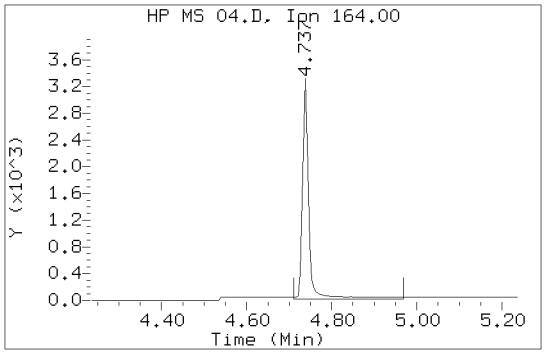
BEFORE

MASS
164
AREA
2918
HEIGHT
3272
20-Jun-2024
11:50
ALSHS
Server



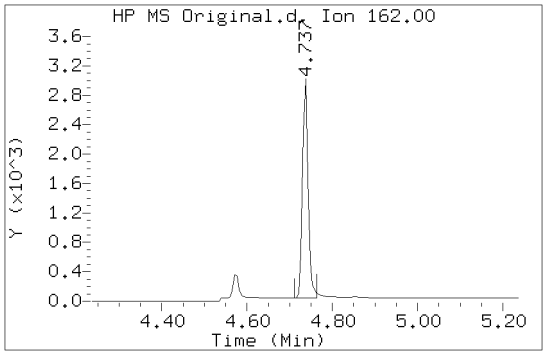
AFTER

MASS
164
AREA
3395
HEIGHT
3295
20-Jun-2024
11:56



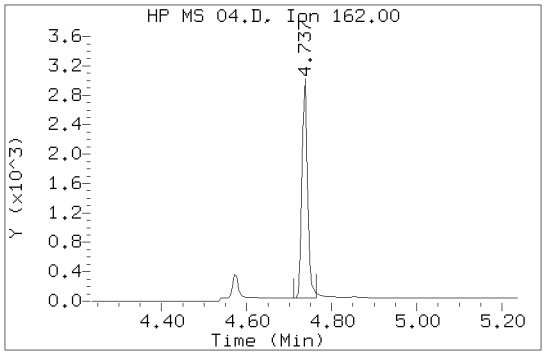
BEFORE

MASS
162
AREA
2689
HEIGHT
2977
20-Jun-2024
11:50
ALSHS
Server



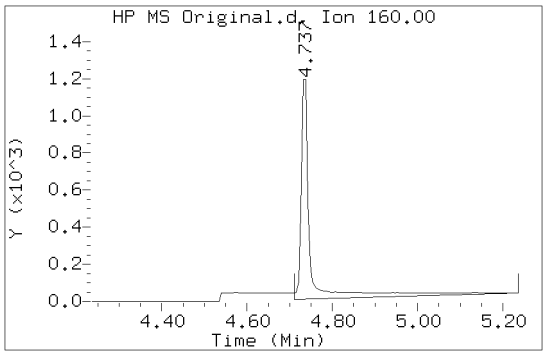
AFTER

MASS
162
AREA
2689
HEIGHT
2977
20-Jun-2024
11:56



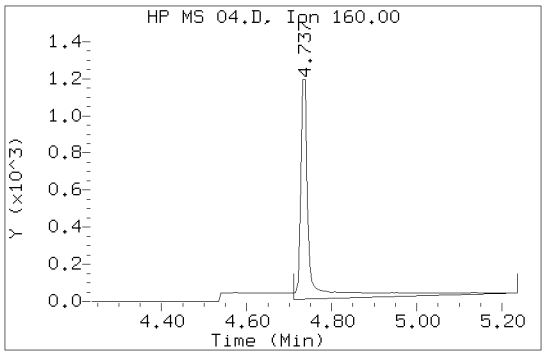
BEFORE

MASS
160
AREA
1750
HEIGHT
1182
20-Jun-2024
11:50
ALSHS
Server



AFTER

MASS
160
AREA
1750
HEIGHT
1182
20-Jun-2024
11:56



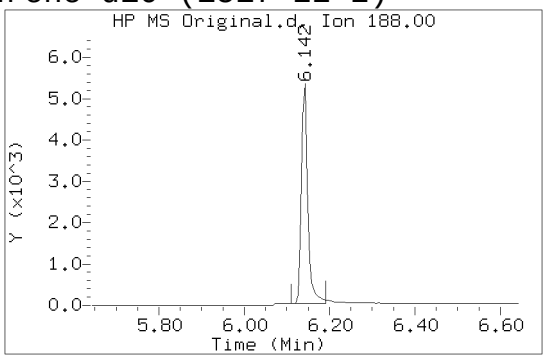
Data File : \\NAHSTWS005\Target\chem\SV6.i\240620.b\04.D
Inj Date : 20-JUN-2024 11:36
InstruID : SV6.i
LabSampID : 14DX-0.08

Phenanthrene-d10 (1517-22-2)

Reason Code:

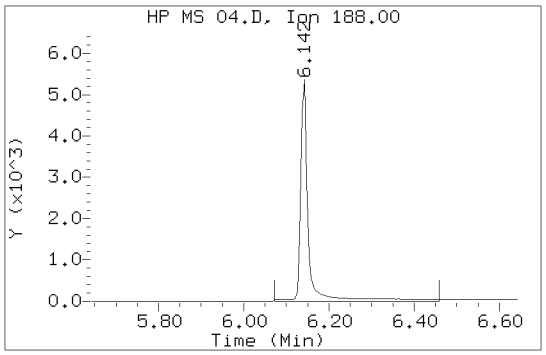
BEFORE

MASS
188
AREA
5478
HEIGHT
5317
20-Jun-2024
11:50
ALSHS
Server



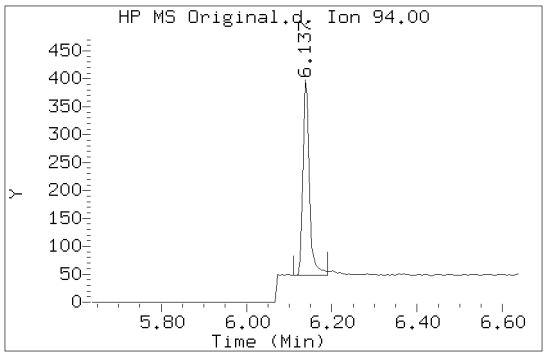
AFTER

MASS
188
AREA
6836
HEIGHT
5365
20-Jun-2024
11:56



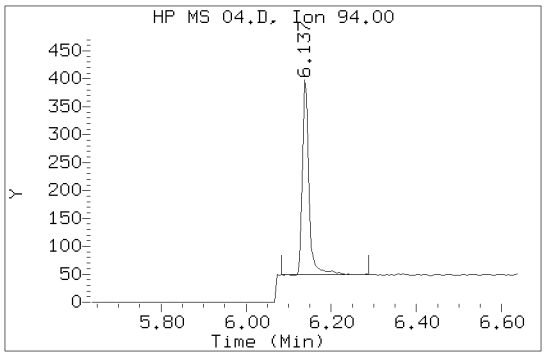
BEFORE

MASS
94
AREA
371
HEIGHT
350
20-Jun-2024
11:50
ALSHS
Server



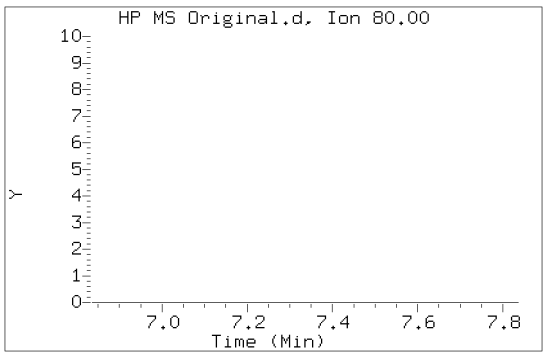
AFTER

MASS
94
AREA
379
HEIGHT
349
20-Jun-2024
11:56



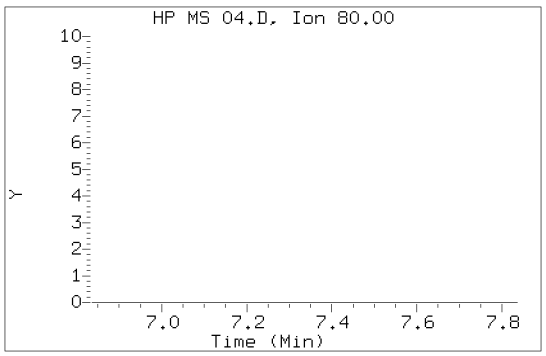
BEFORE

MASS
80
AREA
0
HEIGHT
0
20-Jun-2024
11:50
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
20-Jun-2024
11:56

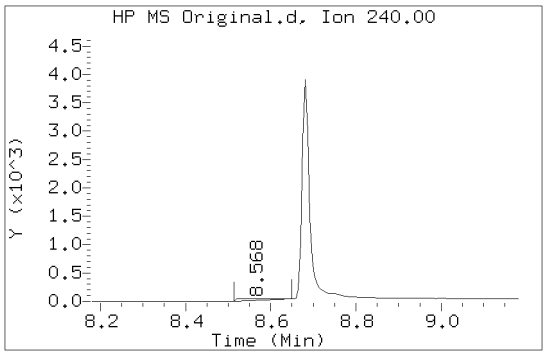


Chrysene-d12 (1719-03-5)

Reason Code:

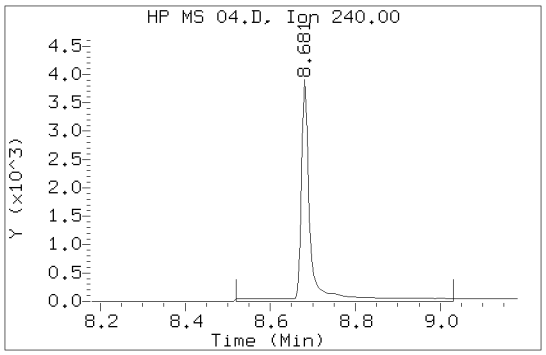
BEFORE

MASS
240
AREA
172
HEIGHT
27
20-Jun-2024
11:50
ALSHS
Server



AFTER

MASS
240
AREA
6347
HEIGHT
3905
20-Jun-2024
11:56

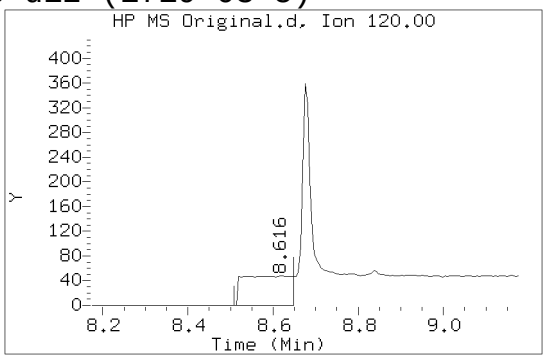


Data File : \\NAHSTWS005\Target\chem\SV6.i\240620.b\04.D
Inj Date : 20-JUN-2024 11:36
InstruID : SV6.i
LabSampID : 14DX-0.08

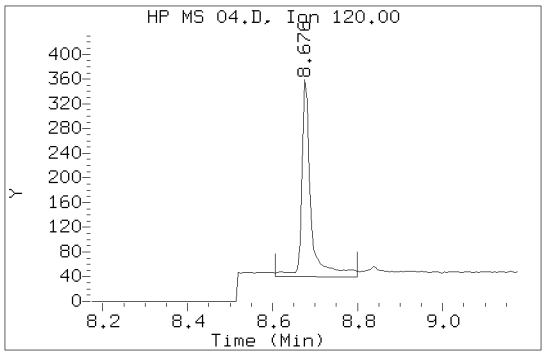
Chrysene-d12 (1719-03-5)

Reason Code:

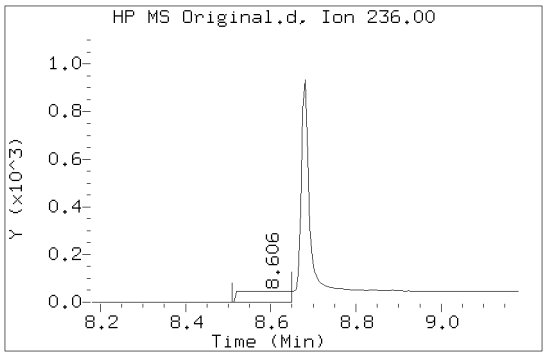
BEFORE
MASS
120
AREA
378
HEIGHT
48
20-Jun-2024
11:50
ALSHS
Server



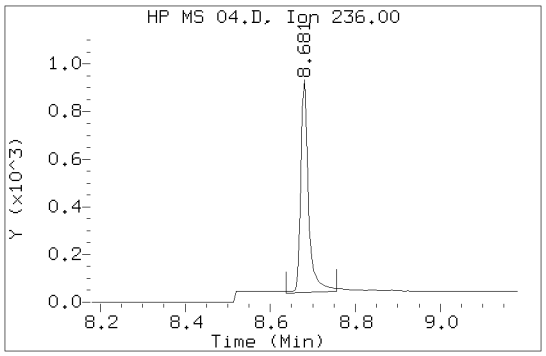
AFTER
MASS
120
AREA
478
HEIGHT
318
20-Jun-2024
11:56



BEFORE
MASS
236
AREA
368
HEIGHT
47
20-Jun-2024
11:50
ALSHS
Server



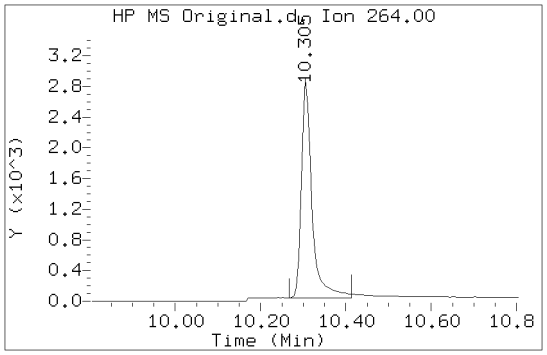
AFTER
MASS
236
AREA
1118
HEIGHT
891
20-Jun-2024
11:56



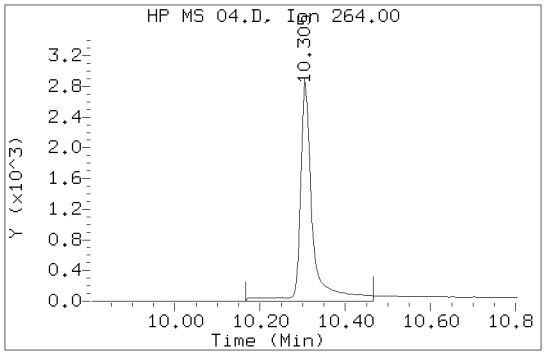
Perylene-d12 (1520-96-3)

Reason Code:

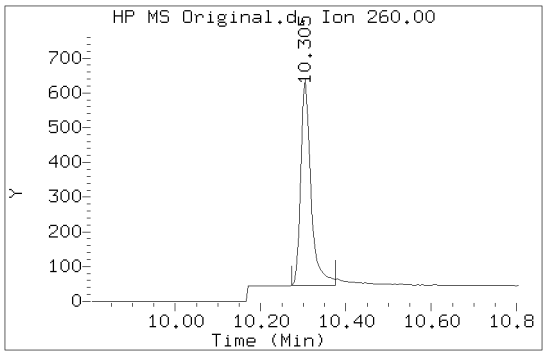
BEFORE
MASS
264
AREA
4847
HEIGHT
2853
20-Jun-2024
11:50
ALSHS
Server



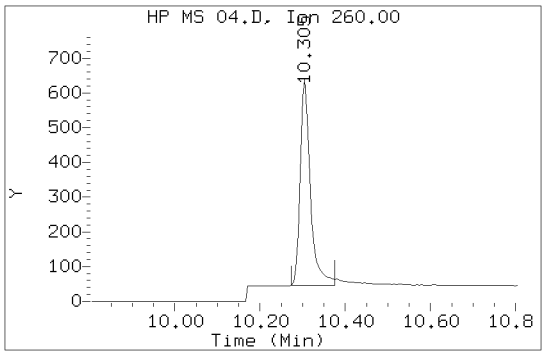
AFTER
MASS
264
AREA
5782
HEIGHT
2899
20-Jun-2024
11:56



BEFORE
MASS
260
AREA
983
HEIGHT
592
20-Jun-2024
11:50
ALSHS
Server



AFTER
MASS
260
AREA
983
HEIGHT
592
20-Jun-2024
11:56



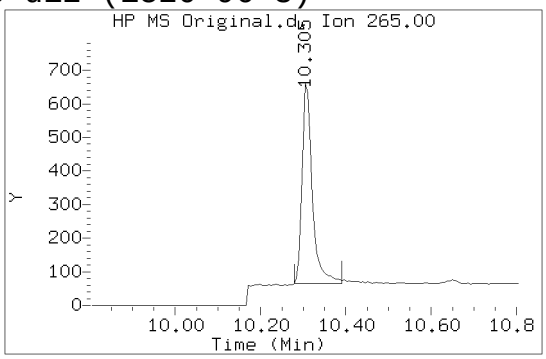
Data File : \\NAHSTWS005\Target\chem\SV6.i\240620.b\04.D
Inj Date : 20-JUN-2024 11:36
InstruID : SV6.i
LabSampID : 14DX-0.08

Perylene-d12 (1520-96-3)

Reason Code:

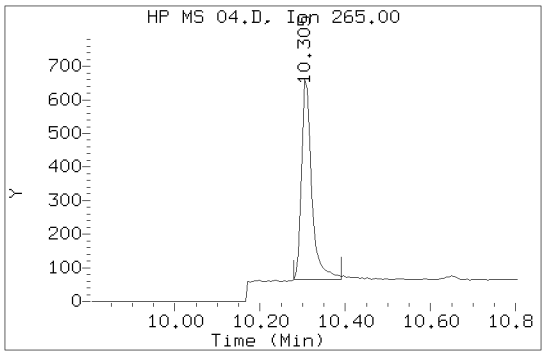
BEFORE

MASS
265
AREA
993
HEIGHT
596
20-Jun-2024
11:50
ALSHS
Server



AFTER

MASS
265
AREA
993
HEIGHT
596
20-Jun-2024
11:56

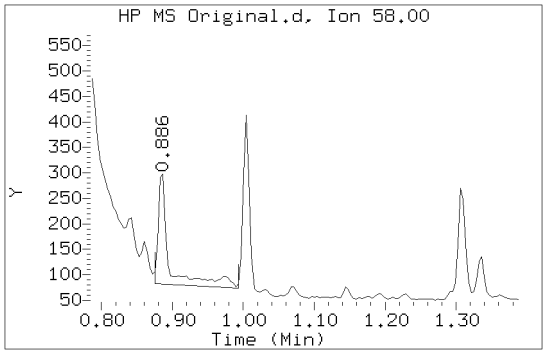


1,4-Dioxane ()

Reason Code:

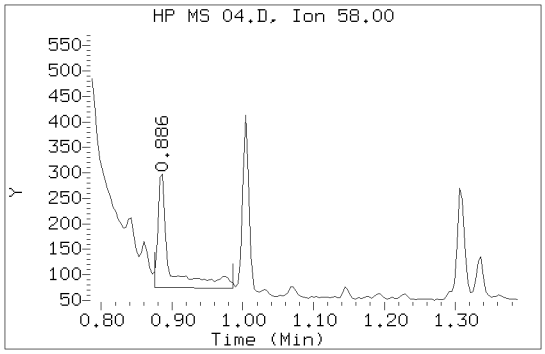
BEFORE

MASS
58
AREA
235
HEIGHT
215
20-Jun-2024
11:50
ALSHS
Server



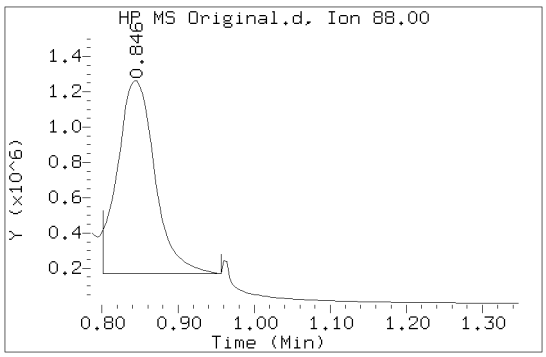
AFTER

MASS
58
AREA
262
HEIGHT
223
20-Jun-2024
11:56



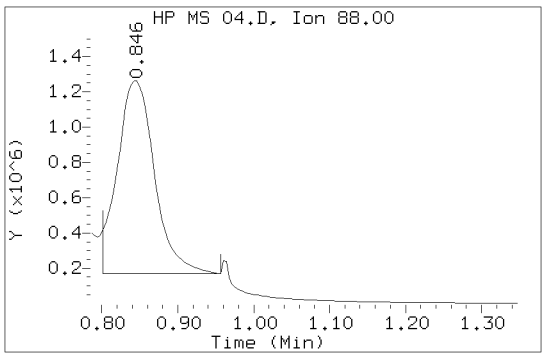
BEFORE

MASS
88
AREA
3728461
HEIGHT
1091200
20-Jun-2024
11:50
ALSHS
Server



AFTER

MASS
88
AREA
3728461
HEIGHT
1091200
20-Jun-2024
11:56

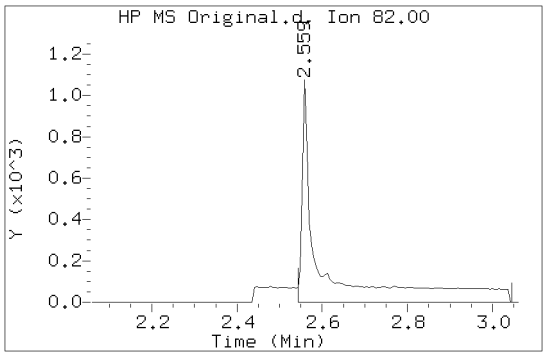


Nitrobenzene-d5 (4165-60-0)

Reason Code:

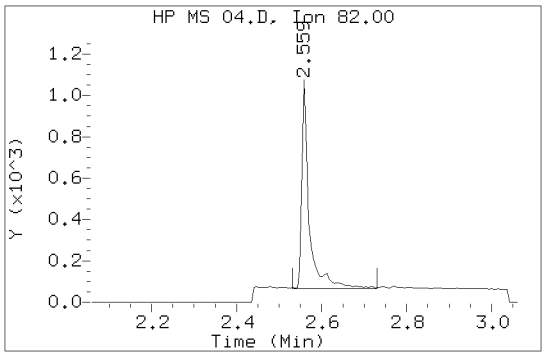
BEFORE

MASS
82
AREA
3220
HEIGHT
1075
20-Jun-2024
11:50
ALSHS
Server



AFTER

MASS
82
AREA
1238
HEIGHT
1009
20-Jun-2024
11:56

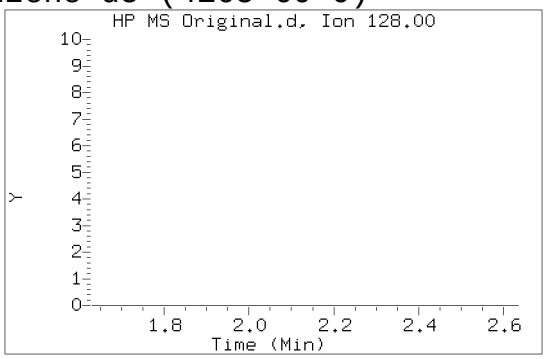


Data File : \\NAHSTWS005\Target\chem\SV6.i\240620.b\04.D
Inj Date : 20-JUN-2024 11:36
InstruID : SV6.i
LabSampID : 14DX-0.08

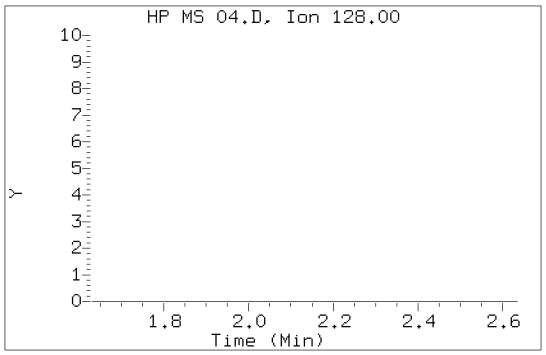
Nitrobenzene-d5 (4165-60-0)

Reason Code:

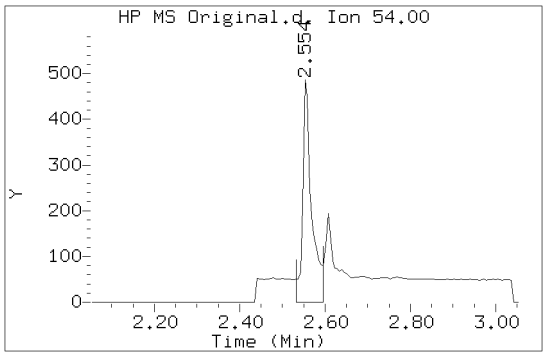
BEFORE
MASS
128
AREA
0
HEIGHT
0
20-Jun-2024
11:50
ALSHS
Server



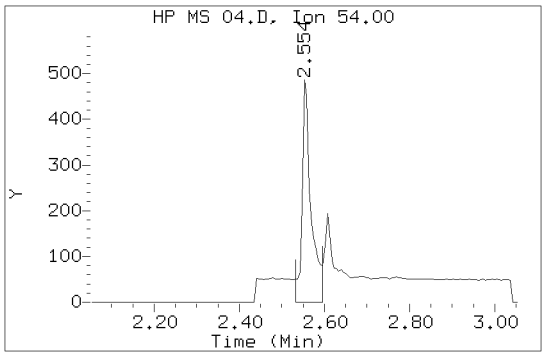
AFTER
MASS
128
AREA
0
HEIGHT
0
20-Jun-2024
11:56



BEFORE
MASS
54
AREA
721
HEIGHT
486
20-Jun-2024
11:50
ALSHS
Server



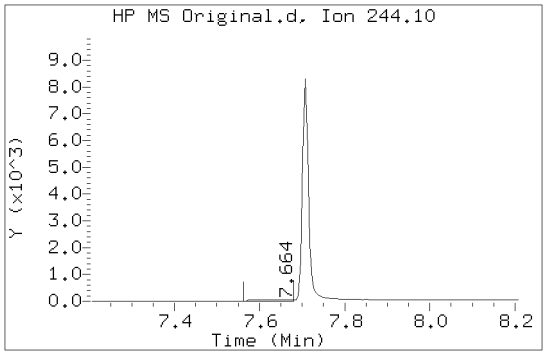
AFTER
MASS
54
AREA
721
HEIGHT
486
20-Jun-2024
11:56



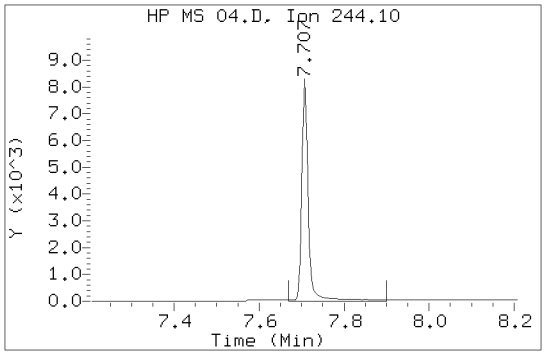
4-Terphenyl-d14 (1718-51-0)

Reason Code:

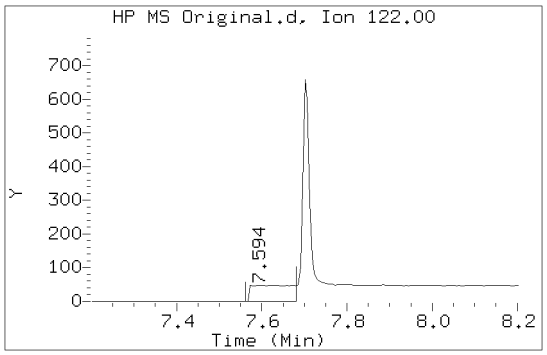
BEFORE
MASS
244.1
AREA
304
HEIGHT
47
20-Jun-2024
11:50
ALSHS
Server



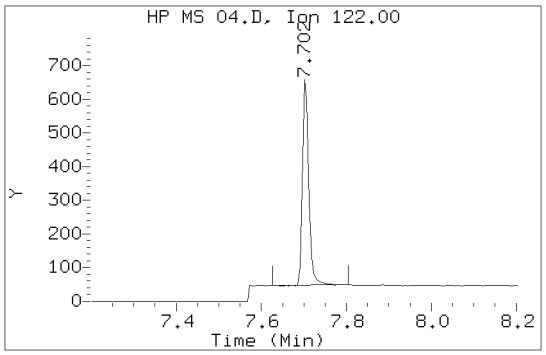
AFTER
MASS
244.1
AREA
8725
HEIGHT
8288
20-Jun-2024
11:56



BEFORE
MASS
122
AREA
316
HEIGHT
48
20-Jun-2024
11:50
ALSHS
Server



AFTER
MASS
122
AREA
618
HEIGHT
609
20-Jun-2024
11:56



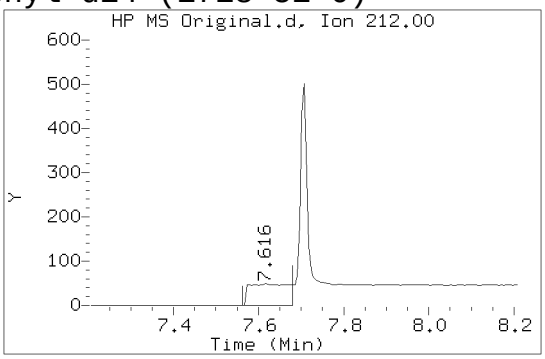
Data File : \\NAHSTWS005\Target\chem\SV6.i\240620.b\04.D
Inj Date : 20-JUN-2024 11:36
InstruID : SV6.i
LabSampID : 14DX-0.08

4-Terphenyl-d14 (1718-51-0)

Reason Code:

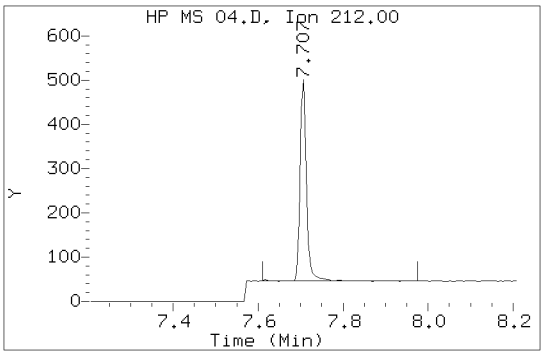
BEFORE

MASS
212
AREA
313
HEIGHT
49
20-Jun-2024
11:50
ALSHS
Server



AFTER

MASS
212
AREA
456
HEIGHT
454
20-Jun-2024
11:56

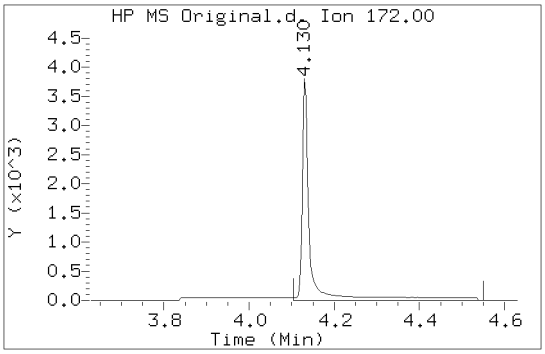


2-Fluorobiphenyl (321-60-8)

Reason Code:

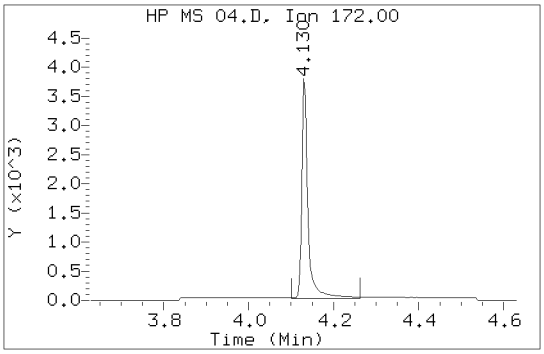
BEFORE

MASS
172
AREA
5033
HEIGHT
3802
20-Jun-2024
11:50
ALSHS
Server



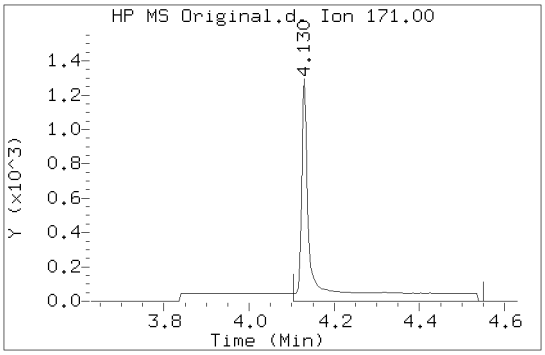
AFTER

MASS
172
AREA
3810
HEIGHT
3764
20-Jun-2024
11:56



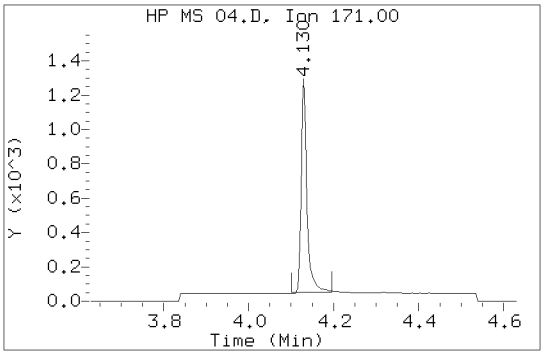
BEFORE

MASS
171
AREA
2468
HEIGHT
1295
20-Jun-2024
11:50
ALSHS
Server



AFTER

MASS
171
AREA
1183
HEIGHT
1244
20-Jun-2024
11:56



Data File: \\NAHSTWS005\Target\chem\SV6.i\240620.b\16.D Page 1
Report Date: 21-Jun-2024 10:17

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240620.b\16.D
Lab Smp Id: MBLK-213281
Inj Date : 20-JUN-2024 15:39
Operator : LG Inst ID: SV6.i
Smp Info : MBLK-213281
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240620.b\DXSIM.m
Meth Date : 20-Jun-2024 11:53 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 14 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.156	2.151	(1.000)	1899	0.10000	(aM)
* 45 Naphthalene-d8	136	3.145	3.141	(1.000)	5914	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.564	2.559	(0.815)	1171	0.06596	0.06596(M)
* 86 Acenaphthene-d10	164	4.742	4.737	(1.000)	3483	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.133	4.130	(0.872)	3526	0.06622	0.06622(M)
* 126 Phenanthrene-d10	188	6.142	6.142	(1.000)	6838	0.10000	
* 182 Chrysene-d12	240	8.686	8.680	(1.000)	5909	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.712	7.707	(0.888)	8590	0.07136	0.07136(M)
* 198 Perylene-d12	264	10.310	10.305	(1.000)	5905	0.10000	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240620.b\16.D

Date : 20-JUN-2024 15:39

Client ID:

Instrument: SV6.i

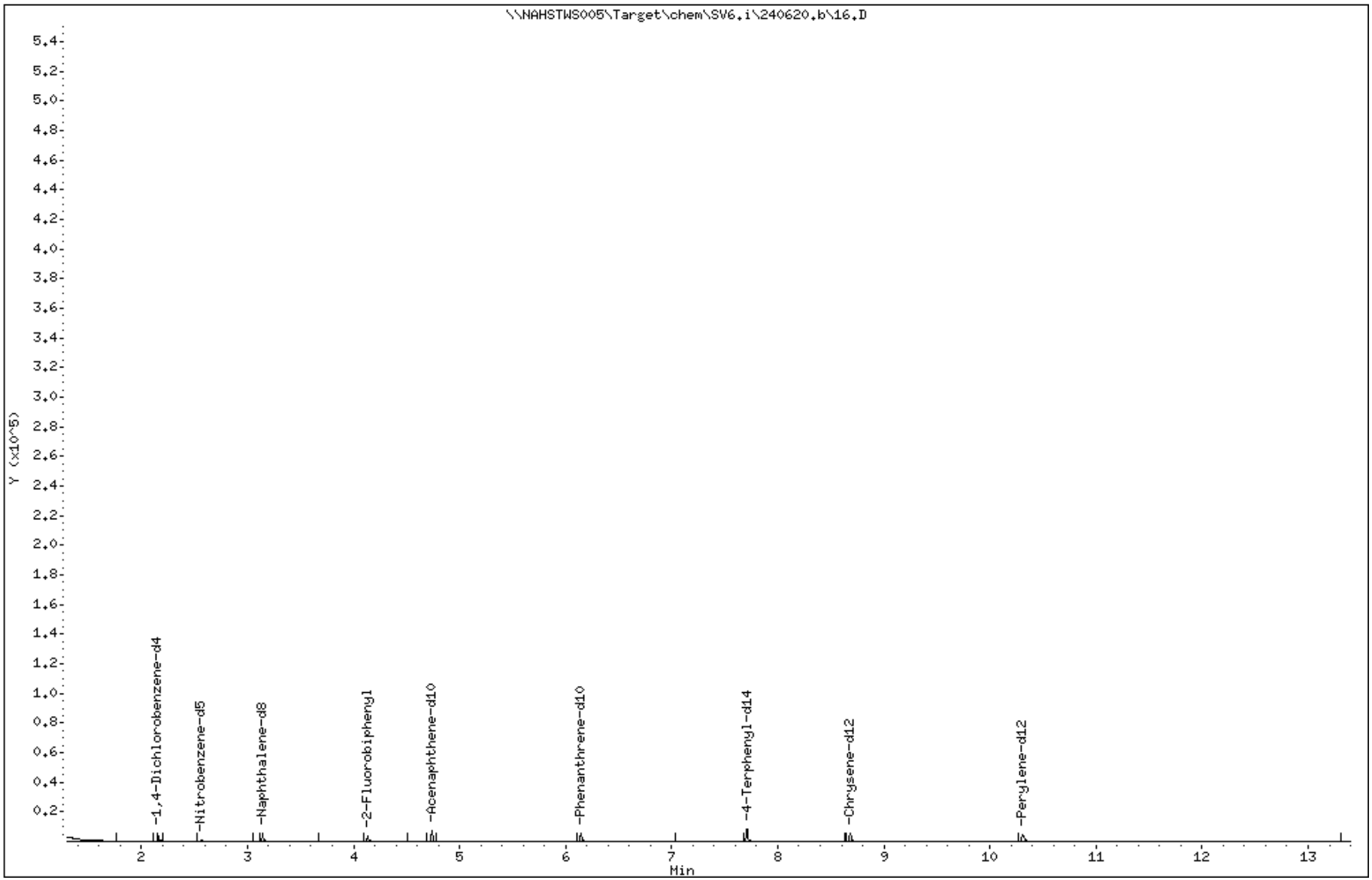
Sample Info: MBLK-213281

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



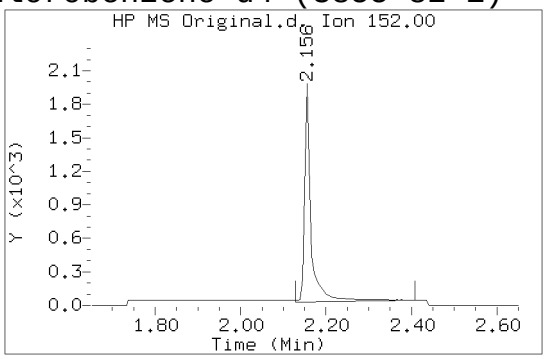
Data File : \\NAHSTWS005\Target\chem\SV6.i\240620.b\16.D
Inj Date : 20-JUN-2024 15:39
InstruID : SV6.i
LabSampID : MBLK-213281

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

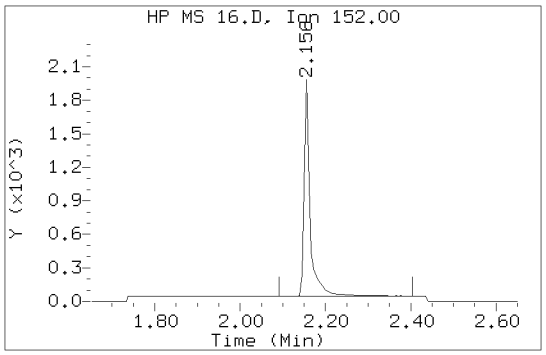
BEFORE

MASS
152
AREA
2071
HEIGHT
1955
20-Jun-2024
15:53
ALSHS
Server



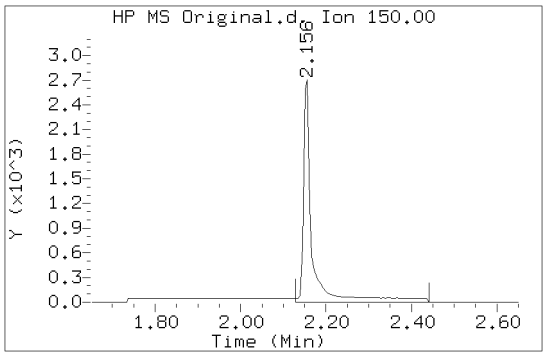
AFTER

MASS
152
AREA
1899
HEIGHT
1937
21-Jun-2024
10:17



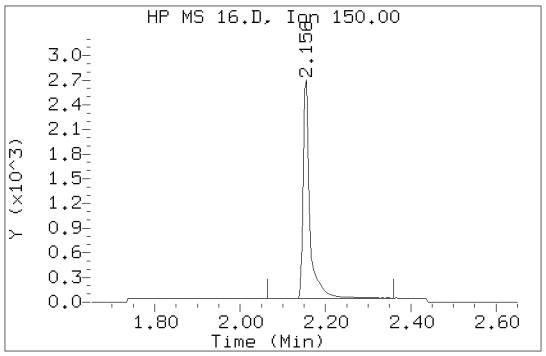
BEFORE

MASS
150
AREA
3822
HEIGHT
2703
20-Jun-2024
15:53
ALSHS
Server



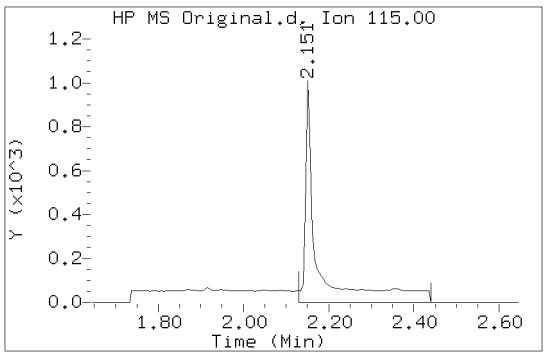
AFTER

MASS
150
AREA
2912
HEIGHT
2655
21-Jun-2024
10:17



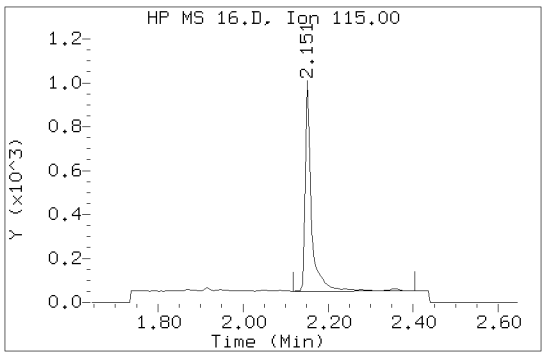
BEFORE

MASS
115
AREA
1950
HEIGHT
1010
20-Jun-2024
15:53
ALSHS
Server



AFTER

MASS
115
AREA
978
HEIGHT
958
21-Jun-2024
10:17

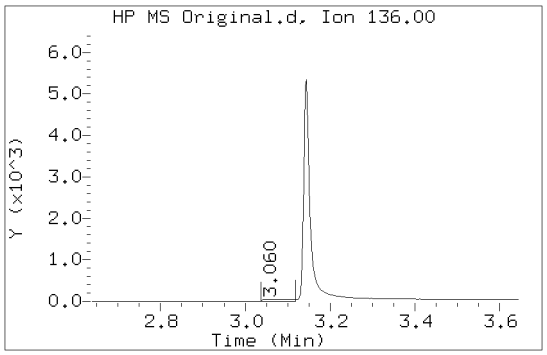


Naphthalene-d8 (1146-65-2)

Reason Code:

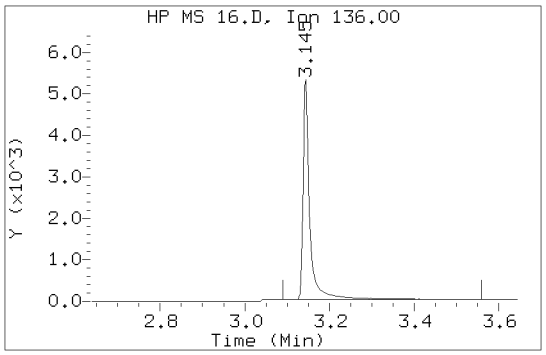
BEFORE

MASS
136
AREA
224
HEIGHT
46
20-Jun-2024
15:53
ALSHS
Server



AFTER

MASS
136
AREA
5914
HEIGHT
5297
21-Jun-2024
10:17

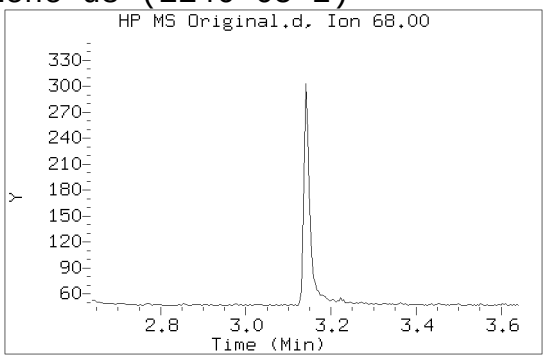


Data File : \\NAHSTWS005\Target\chem\SV6.i\240620.b\16.D
Inj Date : 20-JUN-2024 15:39
InstruID : SV6.i
LabSampID : MBLK-213281

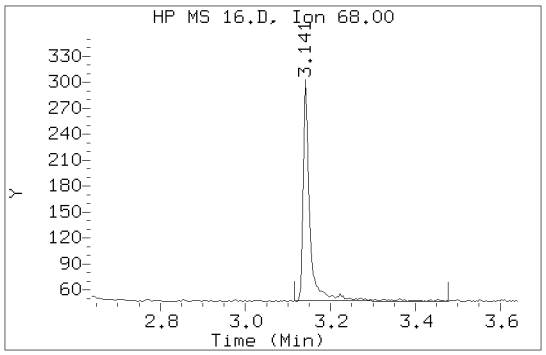
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
68
AREA
0
HEIGHT
0
20-Jun-2024
15:53
ALSHS
Server



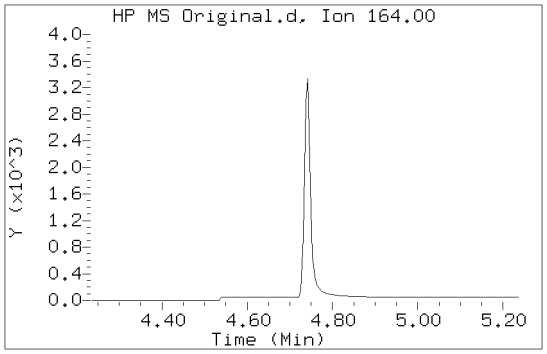
AFTER
MASS
68
AREA
278
HEIGHT
255
21-Jun-2024
10:17



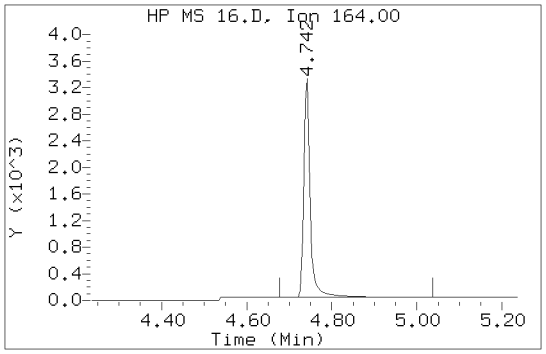
Acenaphthene-d10 (15067-26-2)

Reason Code:

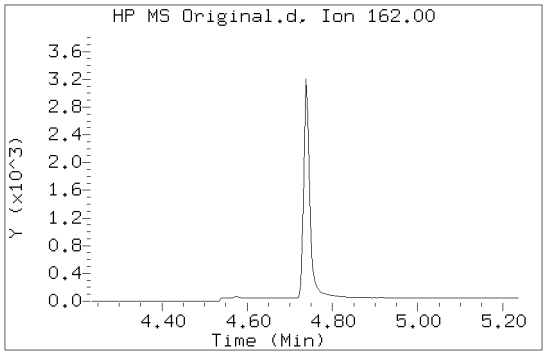
BEFORE
MASS
164
AREA
0
HEIGHT
0
20-Jun-2024
15:53
ALSHS
Server



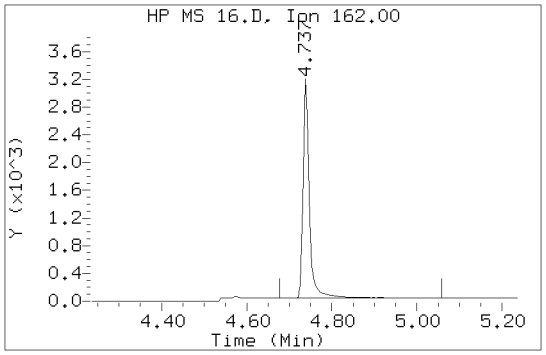
AFTER
MASS
164
AREA
3483
HEIGHT
3288
21-Jun-2024
10:17



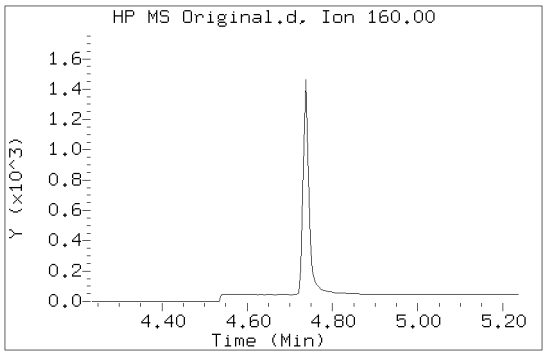
BEFORE
MASS
162
AREA
0
HEIGHT
0
20-Jun-2024
15:53
ALSHS
Server



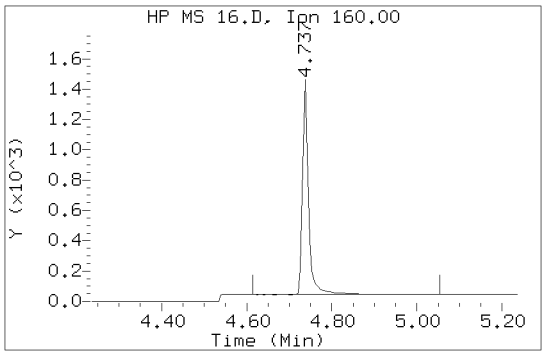
AFTER
MASS
162
AREA
3228
HEIGHT
3159
21-Jun-2024
10:17



BEFORE
MASS
160
AREA
0
HEIGHT
0
20-Jun-2024
15:53
ALSHS
Server



AFTER
MASS
160
AREA
1383
HEIGHT
1416
21-Jun-2024
10:17



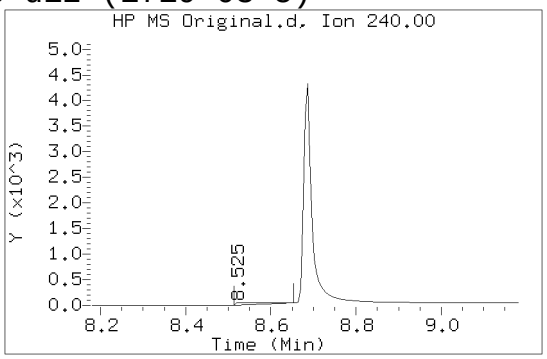
Data File : \\NAHSTWS005\Target\chem\SV6.i\240620.b\16.D
Inj Date : 20-JUN-2024 15:39
InstruID : SV6.i
LabSampID : MBLK-213281

Chrysene-d12 (1719-03-5)

Reason Code:

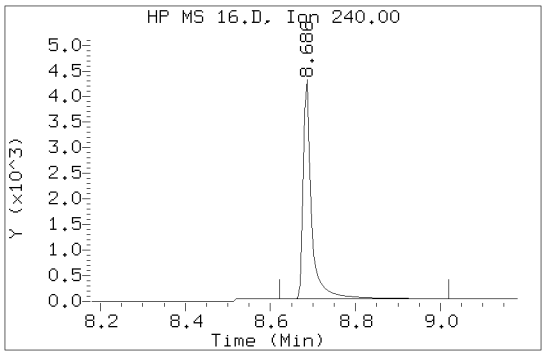
BEFORE

MASS
240
AREA
180
HEIGHT
41
20-Jun-2024
15:53
ALSHS
Server



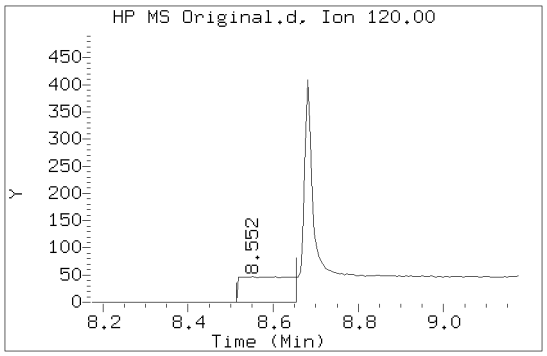
AFTER

MASS
240
AREA
5909
HEIGHT
4283
21-Jun-2024
10:17



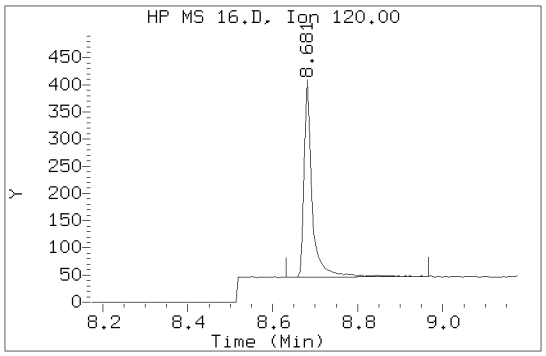
BEFORE

MASS
120
AREA
385
HEIGHT
47
20-Jun-2024
15:53
ALSHS
Server



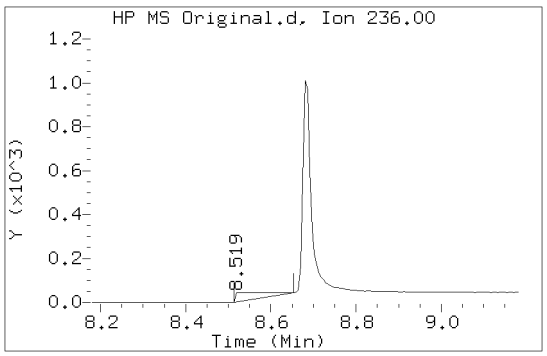
AFTER

MASS
120
AREA
480
HEIGHT
362
21-Jun-2024
10:17



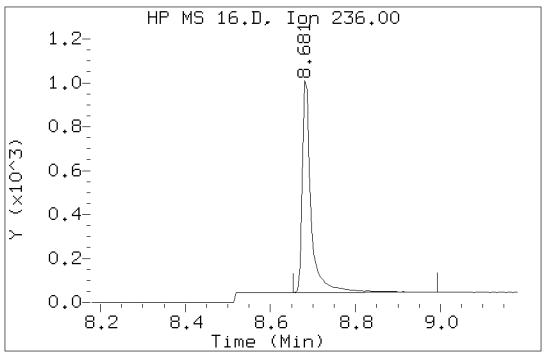
BEFORE

MASS
236
AREA
178
HEIGHT
43
20-Jun-2024
15:53
ALSHS
Server



AFTER

MASS
236
AREA
1379
HEIGHT
964
21-Jun-2024
10:17

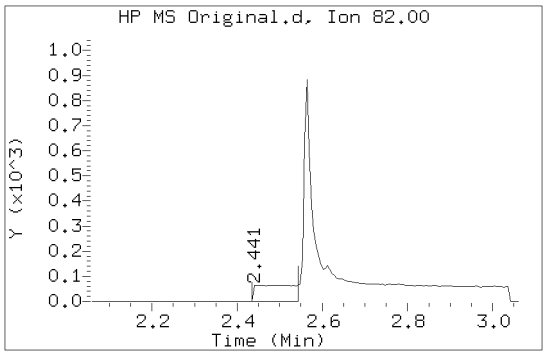


Nitrobenzene-d5 (4165-60-0)

Reason Code:

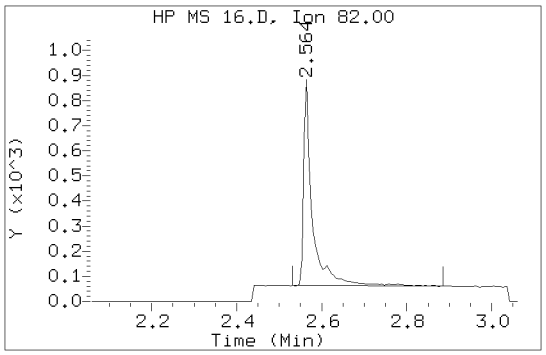
BEFORE

MASS
82
AREA
408
HEIGHT
65
20-Jun-2024
15:53
ALSHS
Server



AFTER

MASS
82
AREA
1171
HEIGHT
820
21-Jun-2024
10:17

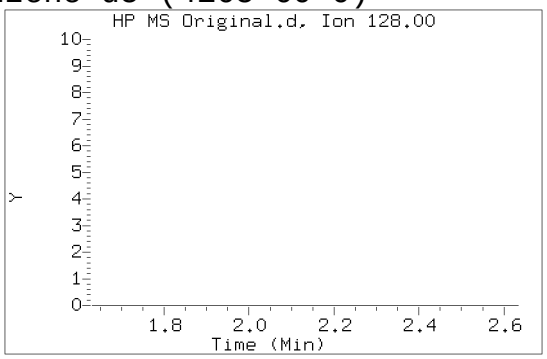


Data File : \\NAHSTWS005\Target\chem\SV6.i\240620.b\16.D
Inj Date : 20-JUN-2024 15:39
InstruID : SV6.i
LabSampID : MBLK-213281

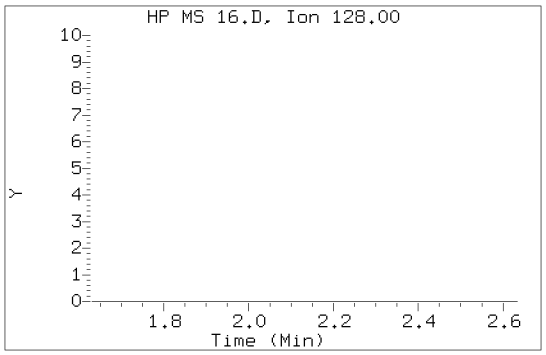
Nitrobenzene-d5 (4165-60-0)

Reason Code:

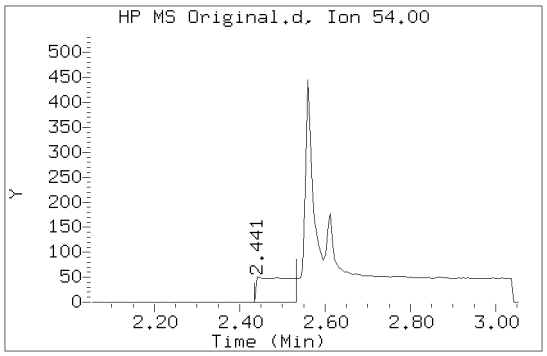
BEFORE
MASS
128
AREA
0
HEIGHT
0
20-Jun-2024
15:53
ALSHS
Server



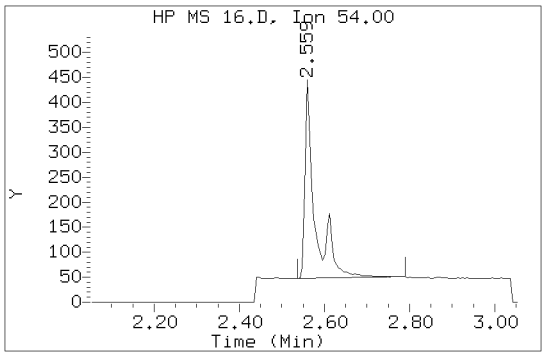
AFTER
MASS
128
AREA
0
HEIGHT
0
21-Jun-2024
10:17



BEFORE
MASS
54
AREA
279
HEIGHT
50
20-Jun-2024
15:53
ALSHS
Server



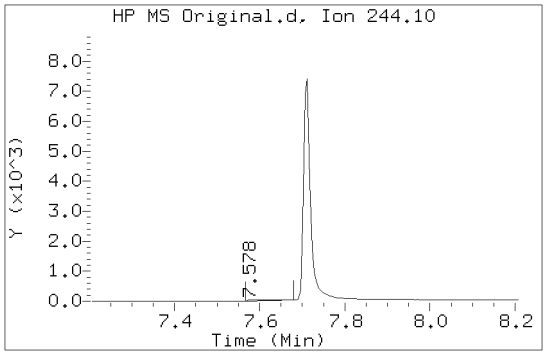
AFTER
MASS
54
AREA
636
HEIGHT
396
21-Jun-2024
10:17



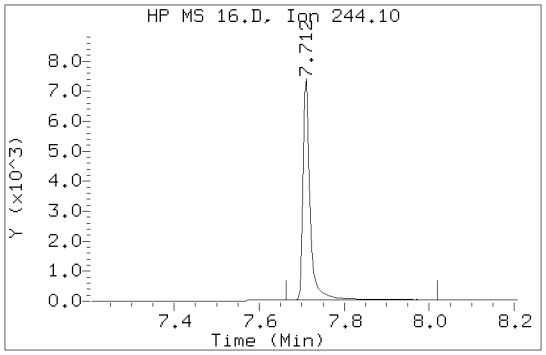
4-Terphenyl-d14 (1718-51-0)

Reason Code:

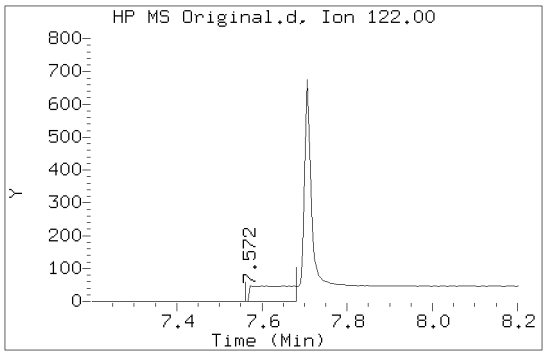
BEFORE
MASS
244.1
AREA
141
HEIGHT
40
20-Jun-2024
15:53
ALSHS
Server



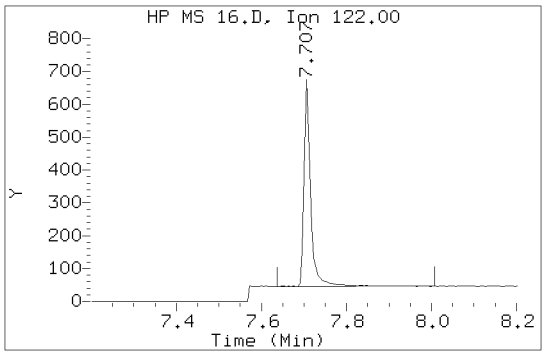
AFTER
MASS
244.1
AREA
8590
HEIGHT
7367
21-Jun-2024
10:17



BEFORE
MASS
122
AREA
307
HEIGHT
46
20-Jun-2024
15:53
ALSHS
Server



AFTER
MASS
122
AREA
679
HEIGHT
629
21-Jun-2024
10:17



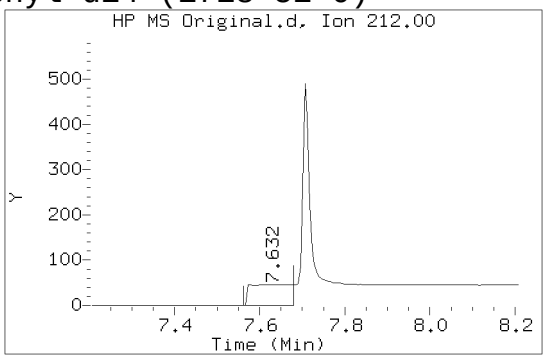
Data File : \\NAHSTWS005\Target\chem\SV6.i\240620.b\16.D
Inj Date : 20-JUN-2024 15:39
InstruID : SV6.i
LabSampID : MBLK-213281

4-Terphenyl-d14 (1718-51-0)

Reason Code:

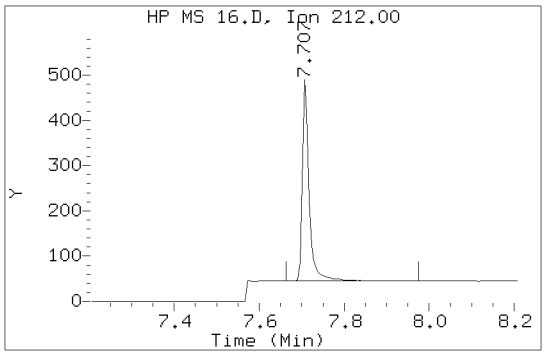
BEFORE

MASS
212
AREA
305
HEIGHT
46
20-Jun-2024
15:53
ALSHS
Server



AFTER

MASS
212
AREA
486
HEIGHT
444
21-Jun-2024
10:17

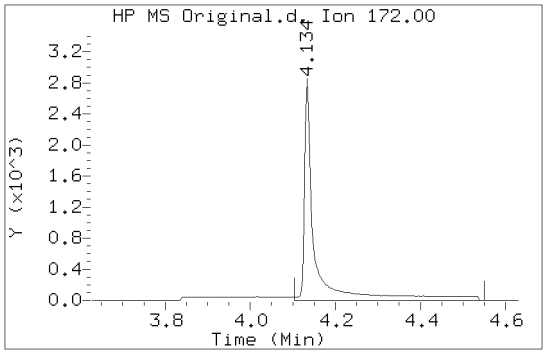


2-Fluorobiphenyl (321-60-8)

Reason Code:

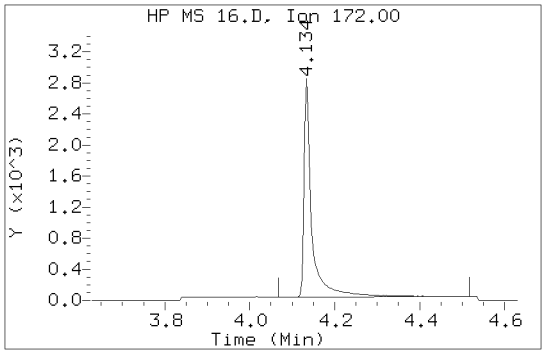
BEFORE

MASS
172
AREA
4808
HEIGHT
2854
20-Jun-2024
15:53
ALSHS
Server



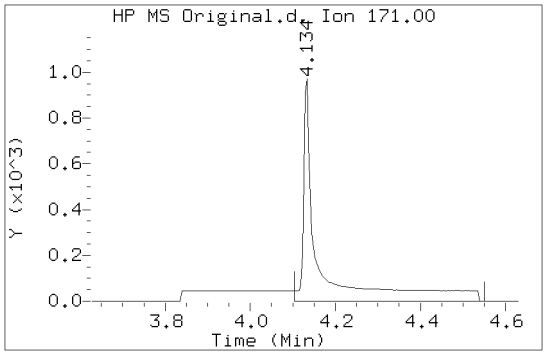
AFTER

MASS
172
AREA
3526
HEIGHT
2808
21-Jun-2024
10:17



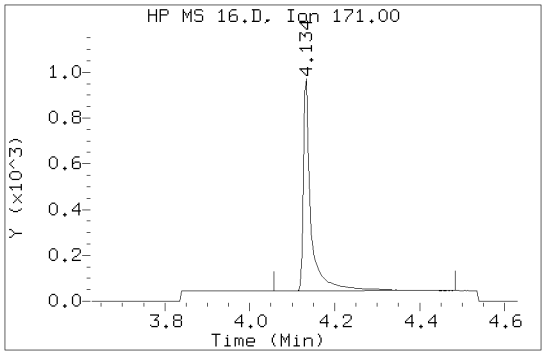
BEFORE

MASS
171
AREA
2390
HEIGHT
971
20-Jun-2024
15:53
ALSHS
Server



AFTER

MASS
171
AREA
1169
HEIGHT
925
21-Jun-2024
10:17



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240620.b\17.D
Lab Smp Id: LCS-213281
Inj Date : 20-JUN-2024 15:56
Operator : LG Inst ID: SV6.i
Smp Info : LCS-213281
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240620.b\DXSIM.m
Meth Date : 18-Jul-2024 09:19 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 15 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.150	2.151	(1.000)	2361	0.10000	(aQ)
* 45 Naphthalene-d8	136	3.141	3.141	(1.000)	5253	0.10000	
$ 33 Nitrobenzene-d5	82	2.564	2.559	(0.816)	1012	0.06417	0.06417(M)
* 86 Acenaphthene-d10	164	4.742	4.737	(1.000)	2727	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.133	4.130	(0.872)	3044	0.07302	0.07302(M)
* 126 Phenanthrene-d10	188	6.142	6.142	(1.000)	5325	0.10000	
* 182 Chrysene-d12	240	8.686	8.680	(1.000)	4597	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.712	7.707	(0.888)	6405	0.06839	0.06839(M)
* 198 Perylene-d12	264	10.310	10.305	(1.000)	4640	0.10000	
1 1,4-Dioxane	58	0.893	0.886	(0.415)	444	0.08780	0.08780(Q)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240620.b\17.D

Date : 20-JUN-2024 15:56

Client ID:

Instrument: SV6.i

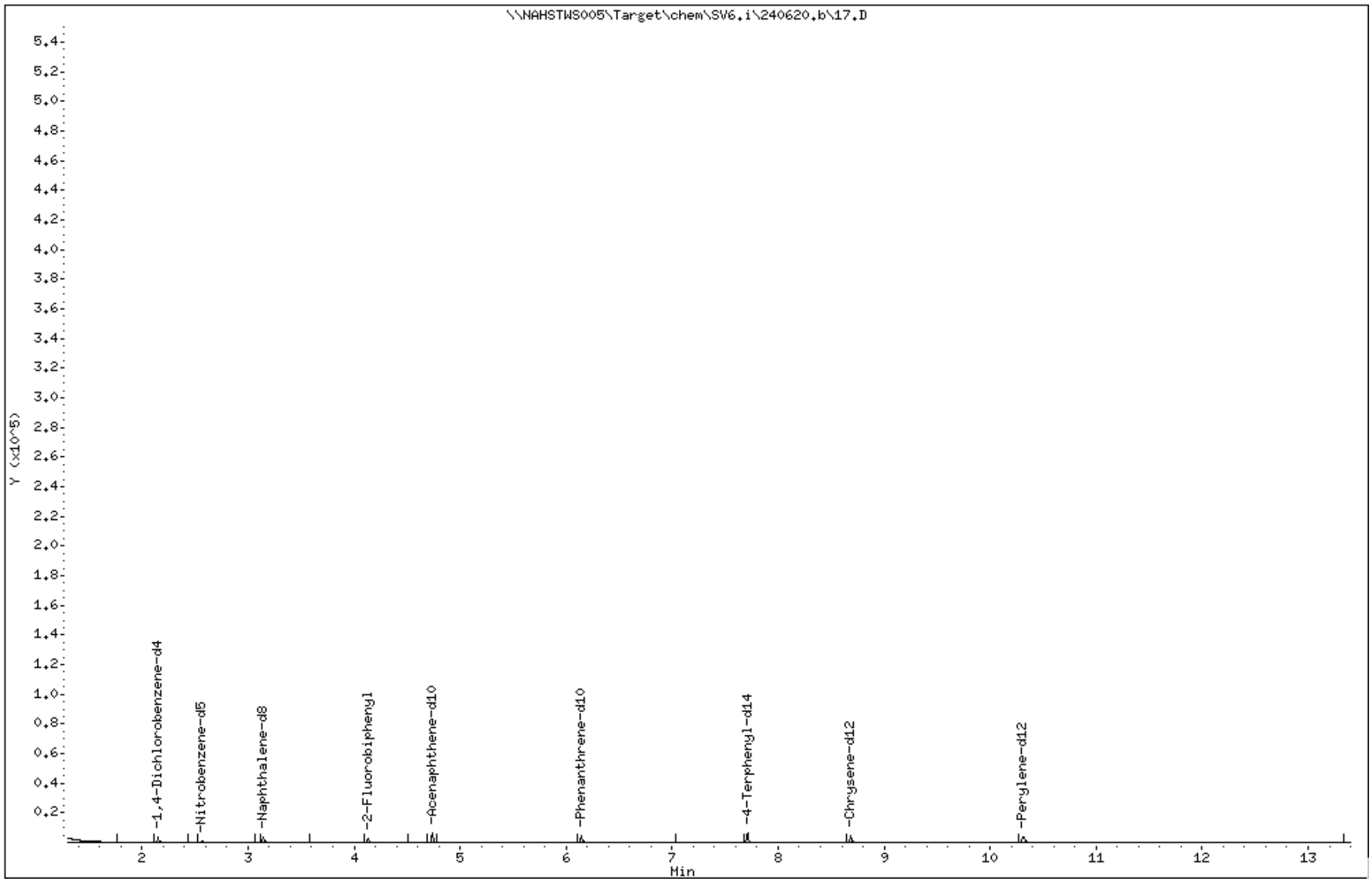
Sample Info: LCS-213281

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



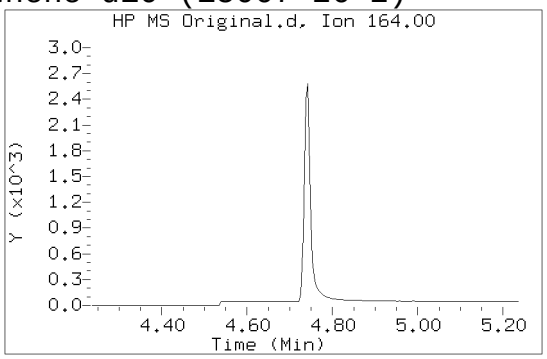
Data File : \\NAHSTWS005\Target\chem\SV6.i\240620.b\17.D
Inj Date : 20-JUN-2024 15:56
InstruID : SV6.i
LabSampID : LCS-213281

Acenaphthene-d10 (15067-26-2)

Reason Code: MBA

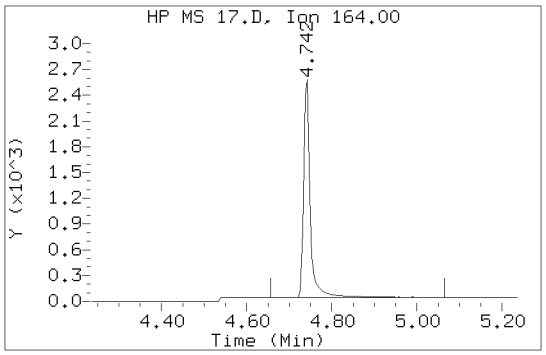
BEFORE

MASS
164
AREA
0
HEIGHT
0
20-Jun-2024
16:12
ALSHS
Server



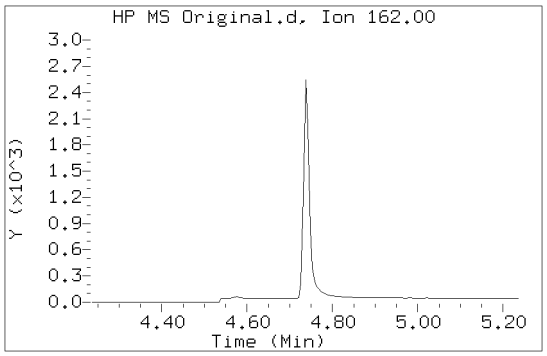
AFTER

MASS
164
AREA
2727
HEIGHT
2534
18-Jul-2024
09:19
ALSHS
Serve



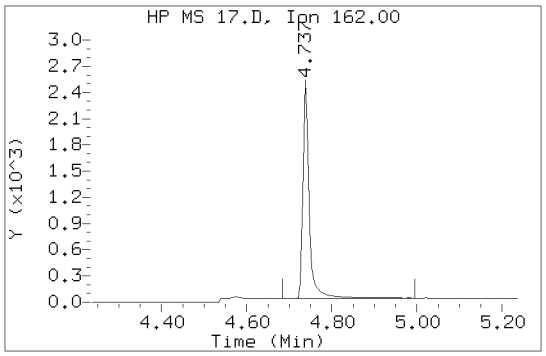
BEFORE

MASS
162
AREA
0
HEIGHT
0
20-Jun-2024
16:12
ALSHS
Server



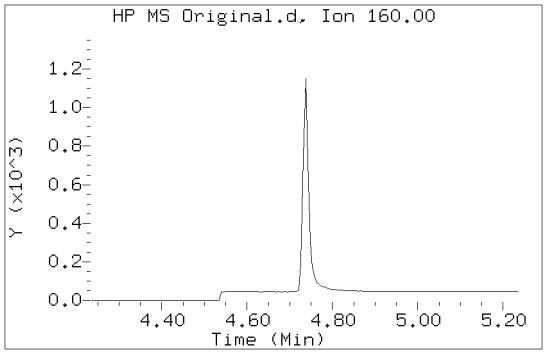
AFTER

MASS
162
AREA
2527
HEIGHT
2498
18-Jul-2024
09:19
ALSHS
Serve



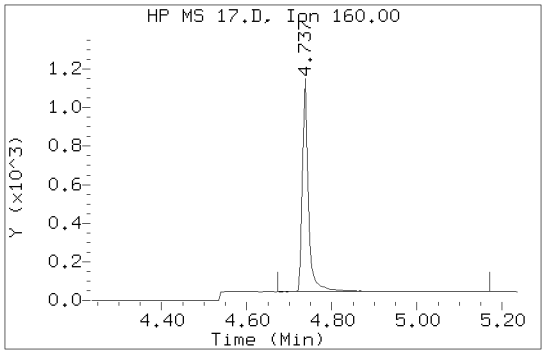
BEFORE

MASS
160
AREA
0
HEIGHT
0
20-Jun-2024
16:12
ALSHS
Server



AFTER

MASS
160
AREA
1094
HEIGHT
1105
18-Jul-2024
09:19
ALSHS
Serve

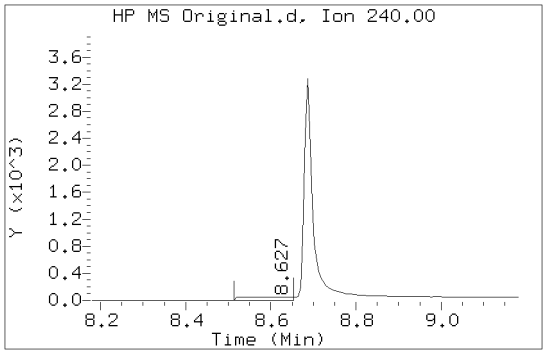


Chrysene-d12 (1719-03-5)

Reason Code: MBA

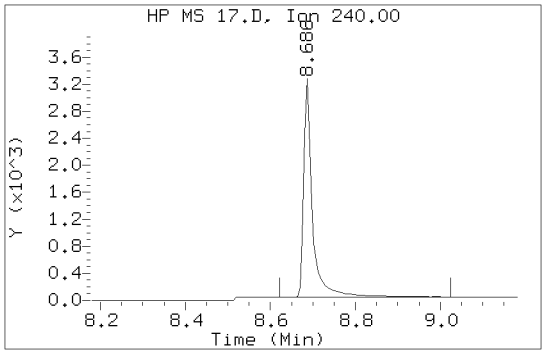
BEFORE

MASS
240
AREA
379
HEIGHT
47
20-Jun-2024
16:12
ALSHS
Server



AFTER

MASS
240
AREA
4597
HEIGHT
3235
18-Jul-2024
09:19
ALSHS
Serve



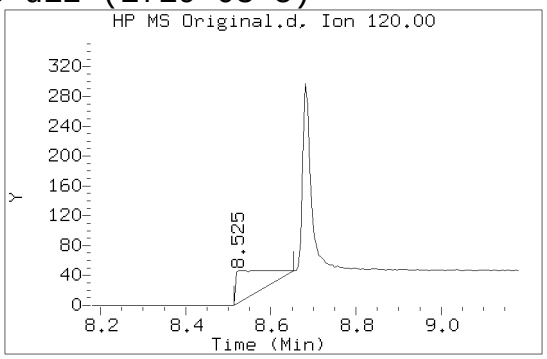
Data File : \\NAHSTWS005\Target\chem\SV6.i\240620.b\17.D
Inj Date : 20-JUN-2024 15:56
InstruID : SV6.i
LabSampID : LCS-213281

Chrysene-d12 (1719-03-5)

Reason Code: MBA

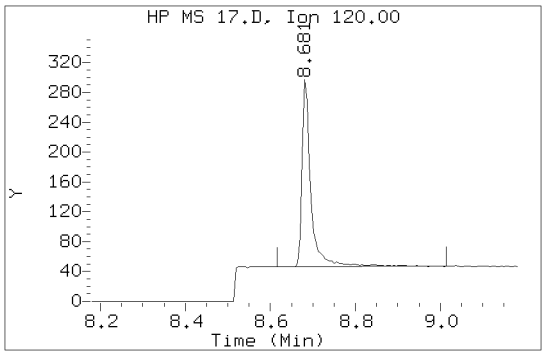
BEFORE

MASS
120
AREA
184
HEIGHT
42
20-Jun-2024
16:12
ALSHS
Server



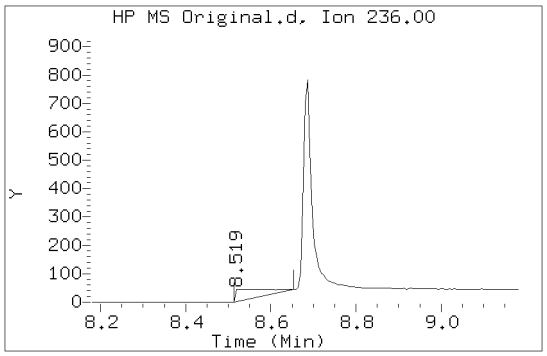
AFTER

MASS
120
AREA
362
HEIGHT
250
18-Jul-2024
09:19
ALSHS
Serve



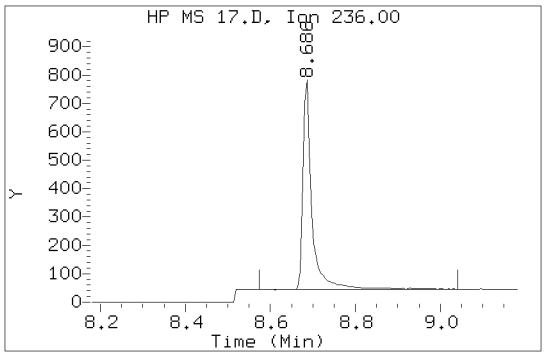
BEFORE

MASS
236
AREA
181
HEIGHT
43
20-Jun-2024
16:12
ALSHS
Server



AFTER

MASS
236
AREA
1073
HEIGHT
737
18-Jul-2024
09:19
ALSHS
Serve

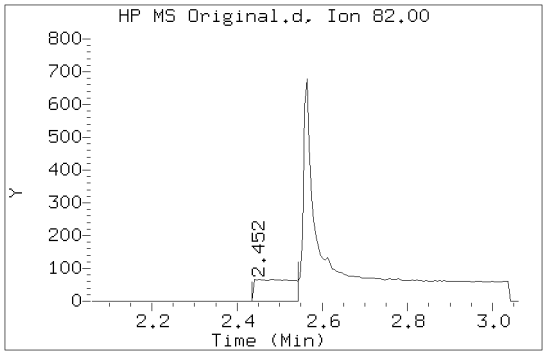


Nitrobenzene-d5 (4165-60-0)

Reason Code: MBA

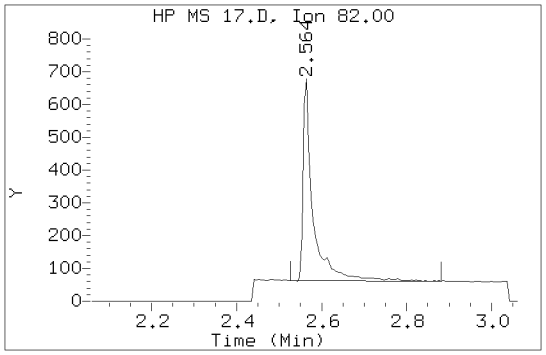
BEFORE

MASS
82
AREA
413
HEIGHT
67
20-Jun-2024
16:12
ALSHS
Server



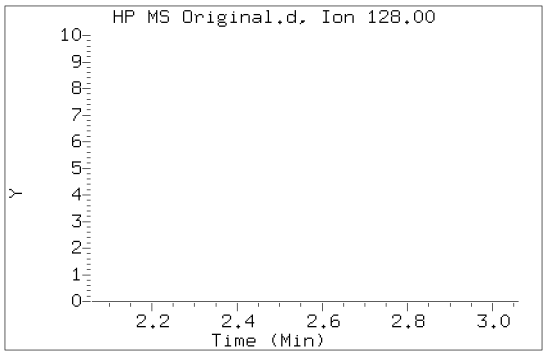
AFTER

MASS
82
AREA
1012
HEIGHT
615
18-Jul-2024
09:19
ALSHS
Serve



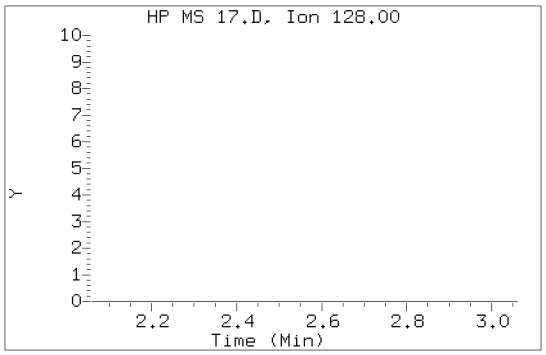
BEFORE

MASS
128
AREA
0
HEIGHT
0
20-Jun-2024
16:12
ALSHS
Server



AFTER

MASS
128
AREA
0
HEIGHT
0
18-Jul-2024
09:19
ALSHS
Serve



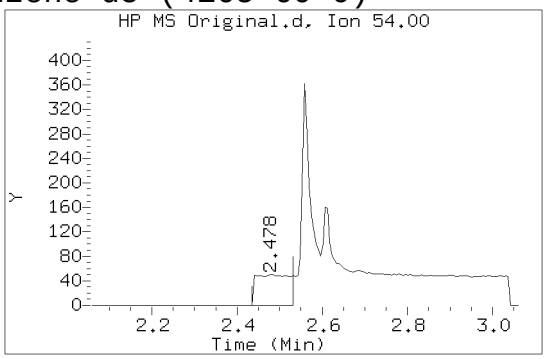
Data File : \\NAHSTWS005\Target\chem\SV6.i\240620.b\17.D
Inj Date : 20-JUN-2024 15:56
InstruID : SV6.i
LabSampID : LCS-213281

Nitrobenzene-d5 (4165-60-0)

Reason Code: MBA

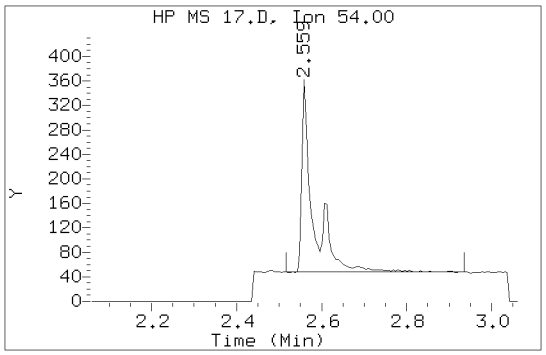
BEFORE

MASS
54
AREA
278
HEIGHT
50
20-Jun-2024
16:12
ALSHS
Server



AFTER

MASS
54
AREA
577
HEIGHT
314
18-Jul-2024
09:19
ALSHS
Serve

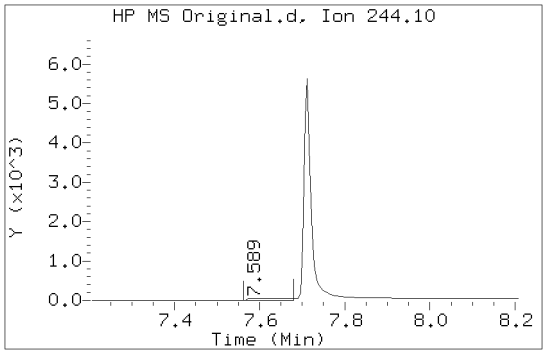


4-Terphenyl-d14 (1718-51-0)

Reason Code: MBA

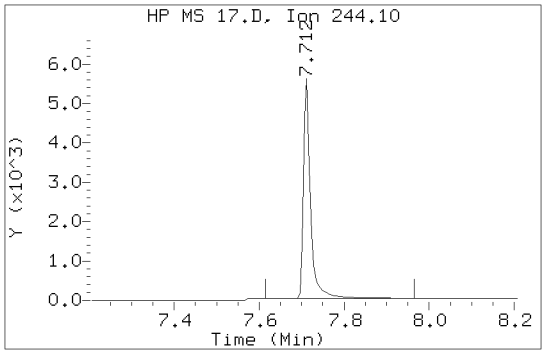
BEFORE

MASS
244.1
AREA
300
HEIGHT
45
20-Jun-2024
16:12
ALSHS
Server



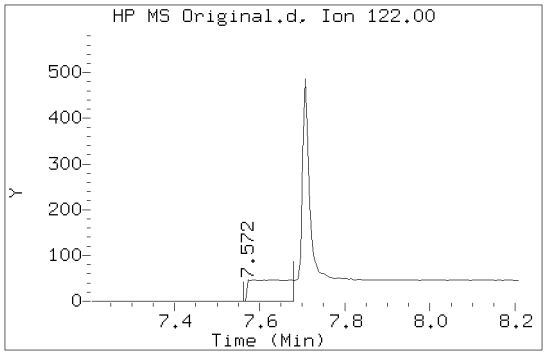
AFTER

MASS
244.1
AREA
6405
HEIGHT
5584
18-Jul-2024
09:19
ALSHS
Serve



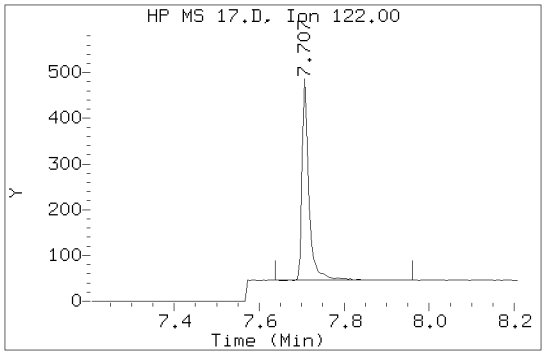
BEFORE

MASS
122
AREA
308
HEIGHT
46
20-Jun-2024
16:12
ALSHS
Server



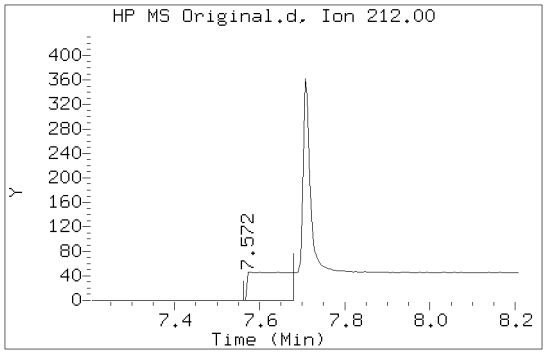
AFTER

MASS
122
AREA
497
HEIGHT
440
18-Jul-2024
09:19
ALSHS
Serve



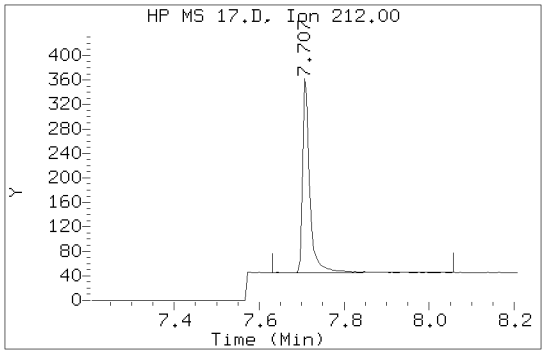
BEFORE

MASS
212
AREA
306
HEIGHT
46
20-Jun-2024
16:12
ALSHS
Server



AFTER

MASS
212
AREA
363
HEIGHT
316
18-Jul-2024
09:19
ALSHS
Serve



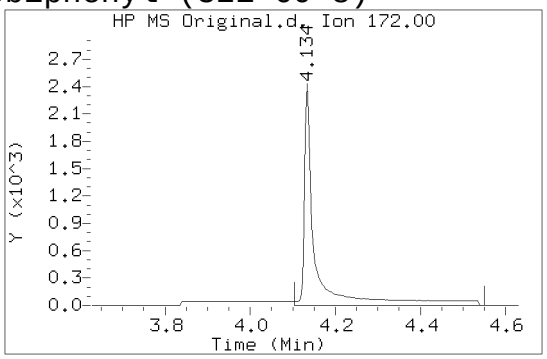
Data File : \\NAHSTWS005\Target\chem\SV6.i\240620.b\17.D
Inj Date : 20-JUN-2024 15:56
InstruID : SV6.i
LabSampID : LCS-213281

2-Fluorobiphenyl (321-60-8)

Reason Code: MBA

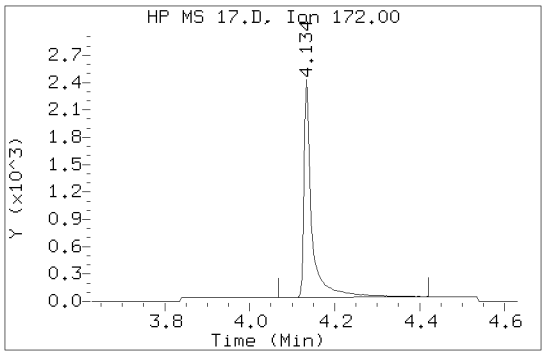
BEFORE

MASS
172
AREA
4336
HEIGHT
2431
20-Jun-2024
16:12
ALSHS
Server



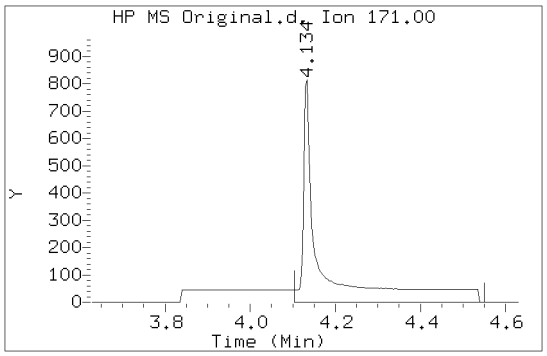
AFTER

MASS
172
AREA
3044
HEIGHT
2385
18-Jul-2024
09:19
ALSHS
Serve



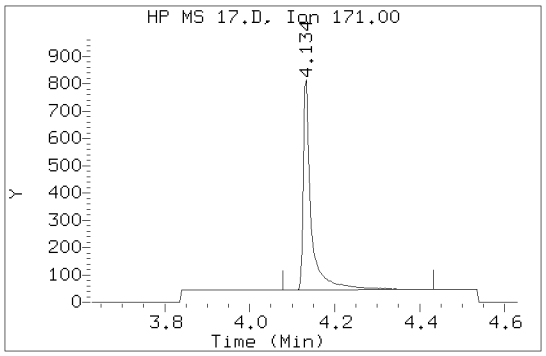
BEFORE

MASS
171
AREA
2225
HEIGHT
814
20-Jun-2024
16:12
ALSHS
Server



AFTER

MASS
171
AREA
1005
HEIGHT
768
18-Jul-2024
09:19
ALSHS
Serve



Data File: \\NAHSTWS005\Target\chem\SV6.i\240620.b\18.D Page 1
Report Date: 21-Jun-2024 10:19

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240620.b\18.D
Lab Smp Id: LCSD-213281
Inj Date : 20-JUN-2024 16:14
Operator : LG Inst ID: SV6.i
Smp Info : LCSD-213281
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240620.b\DXSIM.m
Meth Date : 20-Jun-2024 11:53 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 16 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.151	2.151	(1.000)	2447	0.10000	(aQ)
* 45 Naphthalene-d8	136	3.141	3.141	(1.000)	5536	0.10000	
$ 33 Nitrobenzene-d5	82	2.558	2.559	(0.815)	1077	0.06480	0.06480(M)
* 86 Acenaphthene-d10	164	4.742	4.737	(1.000)	2912	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.133	4.130	(0.872)	3281	0.07371	0.07371(M)
* 126 Phenanthrene-d10	188	6.147	6.142	(1.000)	5678	0.10000	
* 182 Chrysene-d12	240	8.686	8.680	(1.000)	4856	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.712	7.707	(0.888)	7796	0.07881	0.07881(M)
* 198 Perylene-d12	264	10.310	10.305	(1.000)	4892	0.10000	
1 1,4-Dioxane	58	0.882	0.886	(0.410)	411	0.07842	0.07842(Q)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240620.b\18.D

Date : 20-JUN-2024 16:14

Client ID:

Instrument: SV6.i

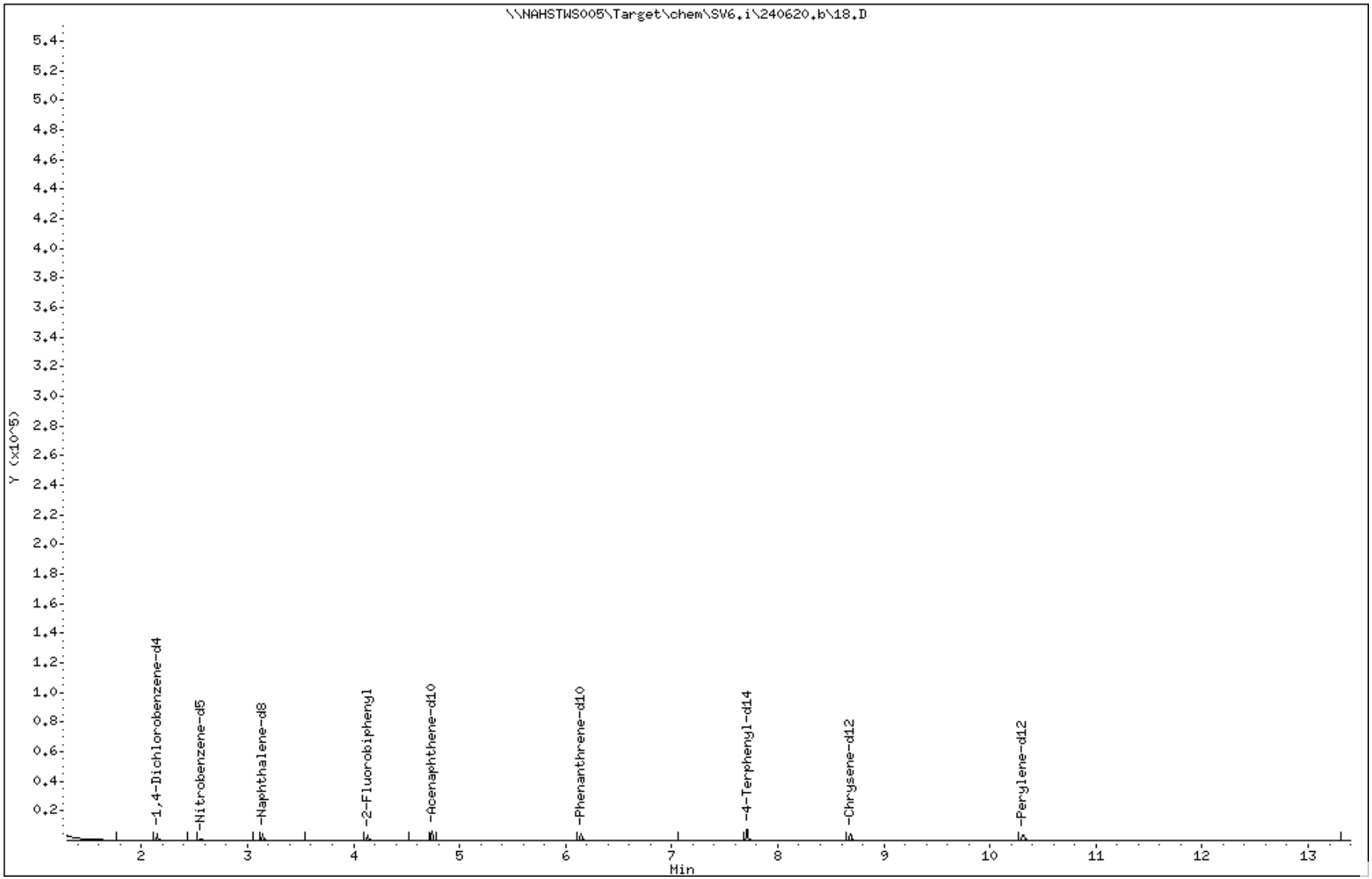
Sample Info: LCSD-213281

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



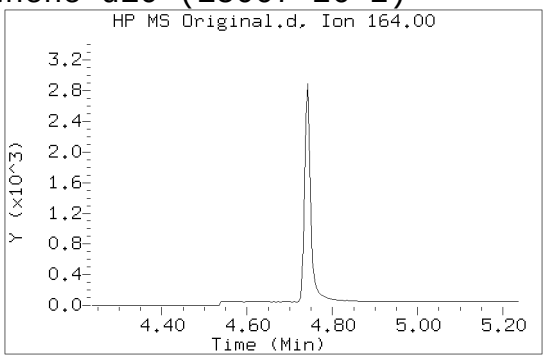
Data File : \\NAHSTWS005\Target\chem\SV6.i\240620.b\18.D
Inj Date : 20-JUN-2024 16:14
InstruID : SV6.i
LabSampID : LCSD-213281

Acenaphthene-d10 (15067-26-2)

Reason Code: MBA

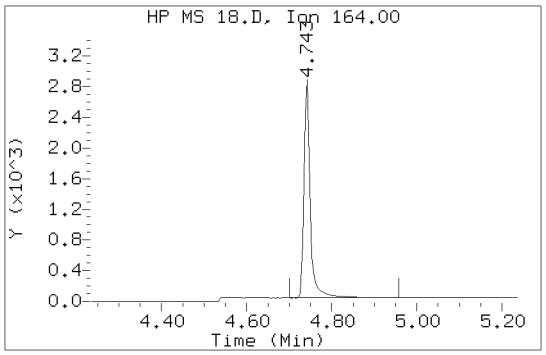
BEFORE

MASS
164
AREA
0
HEIGHT
0
20-Jun-2024
16:33
ALSHS
Server



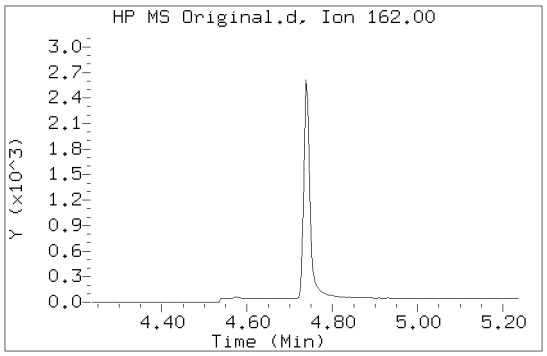
AFTER

MASS
164
AREA
2912
HEIGHT
2845
21-Jun-2024
10:19



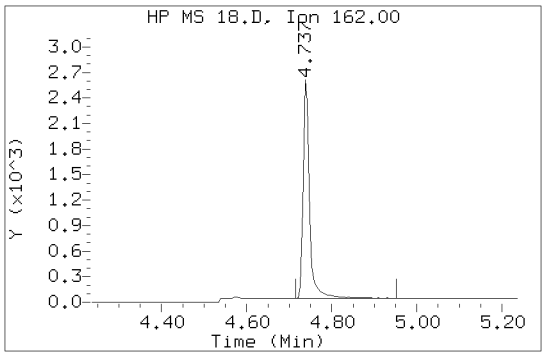
BEFORE

MASS
162
AREA
0
HEIGHT
0
20-Jun-2024
16:33
ALSHS
Server



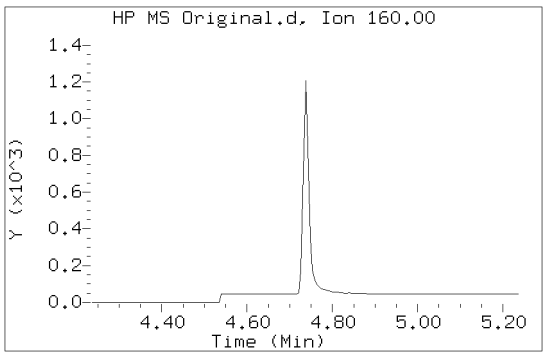
AFTER

MASS
162
AREA
2677
HEIGHT
2565
21-Jun-2024
10:19



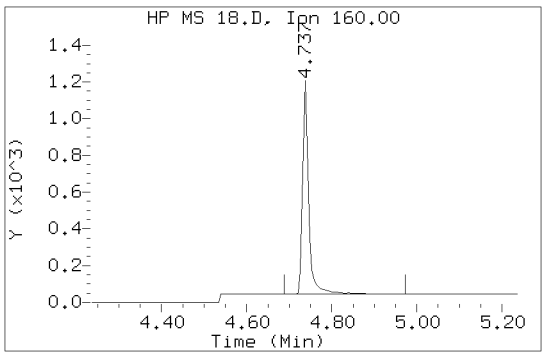
BEFORE

MASS
160
AREA
0
HEIGHT
0
20-Jun-2024
16:33
ALSHS
Server



AFTER

MASS
160
AREA
1145
HEIGHT
1161
21-Jun-2024
10:19

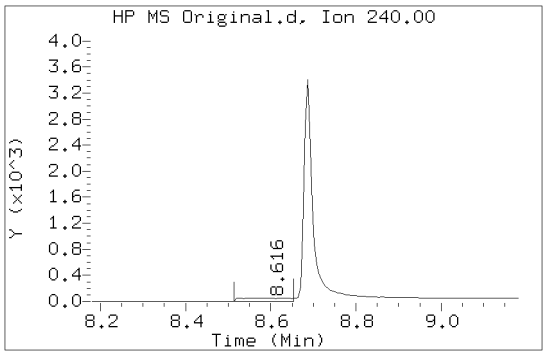


Chrysene-d12 (1719-03-5)

Reason Code:

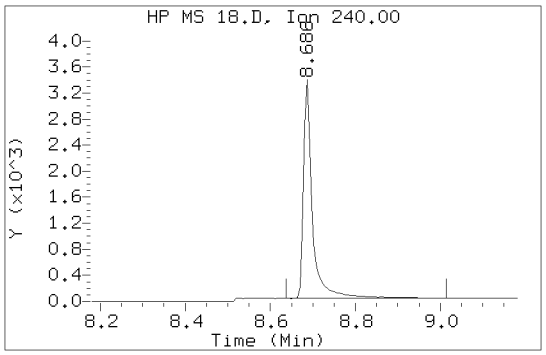
BEFORE

MASS
240
AREA
377
HEIGHT
46
20-Jun-2024
16:33
ALSHS
Server



AFTER

MASS
240
AREA
4856
HEIGHT
3357
21-Jun-2024
10:19



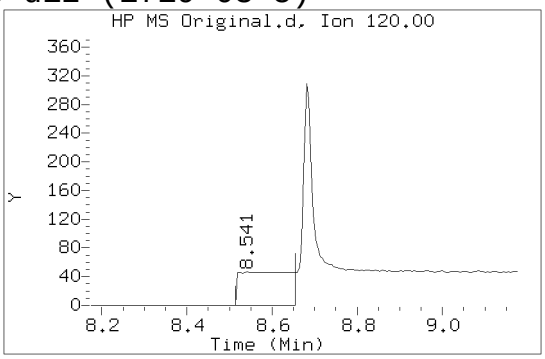
Data File : \\NAHSTWS005\Target\chem\SV6.i\240620.b\18.D
Inj Date : 20-JUN-2024 16:14
InstruID : SV6.i
LabSampID : LCSD-213281

Chrysene-d12 (1719-03-5)

Reason Code:

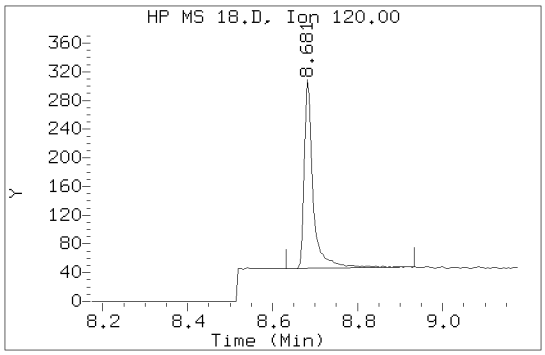
BEFORE

MASS
120
AREA
386
HEIGHT
47
20-Jun-2024
16:33
ALSHS
Server



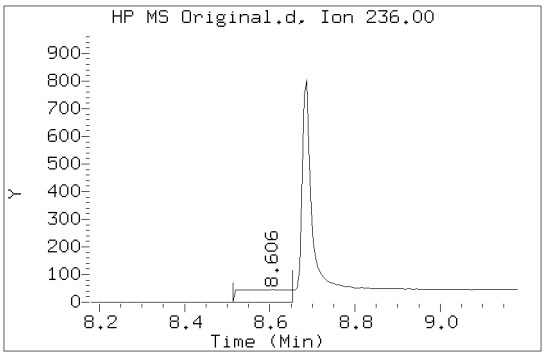
AFTER

MASS
120
AREA
374
HEIGHT
262
21-Jun-2024
10:19



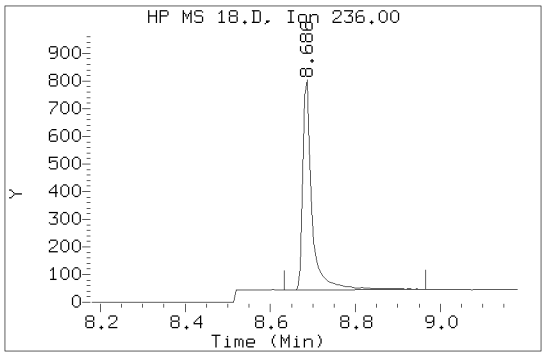
BEFORE

MASS
236
AREA
377
HEIGHT
46
20-Jun-2024
16:33
ALSHS
Server



AFTER

MASS
236
AREA
1133
HEIGHT
759
21-Jun-2024
10:19

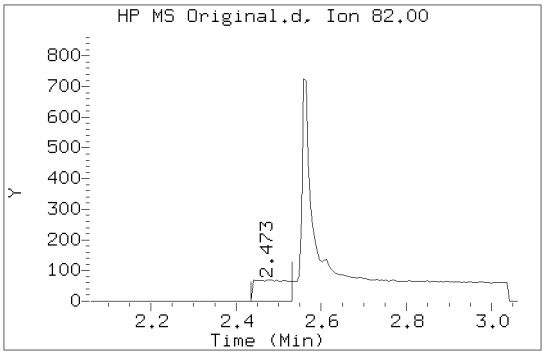


Nitrobenzene-d5 (4165-60-0)

Reason Code: MBA

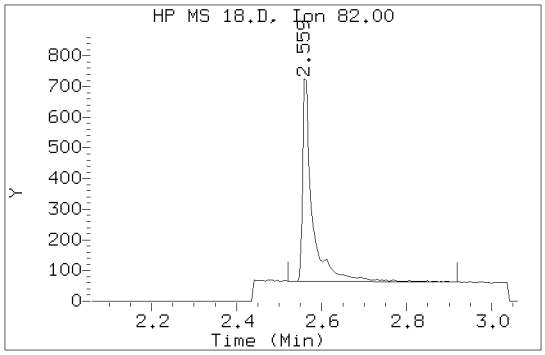
BEFORE

MASS
82
AREA
388
HEIGHT
70
20-Jun-2024
16:33
ALSHS
Server



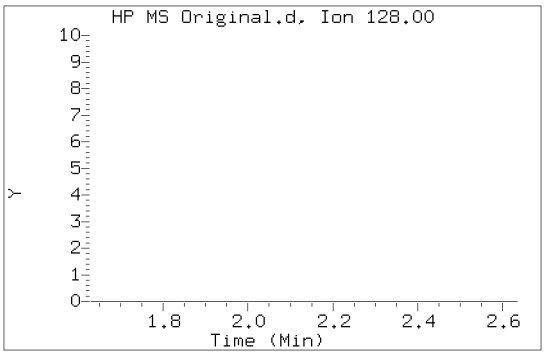
AFTER

MASS
82
AREA
1077
HEIGHT
660
21-Jun-2024
10:19



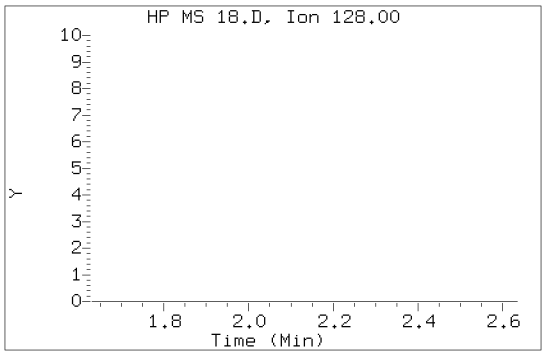
BEFORE

MASS
128
AREA
0
HEIGHT
0
20-Jun-2024
16:33
ALSHS
Server



AFTER

MASS
128
AREA
0
HEIGHT
0
21-Jun-2024
10:19



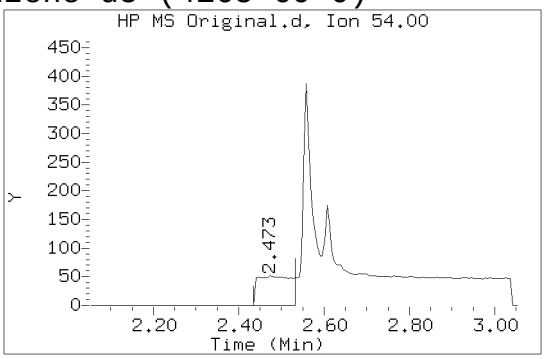
Data File : \\NAHSTWS005\Target\chem\SV6.i\240620.b\18.D
Inj Date : 20-JUN-2024 16:14
InstruID : SV6.i
LabSampID : LCSD-213281

Nitrobenzene-d5 (4165-60-0)

Reason Code: MBA

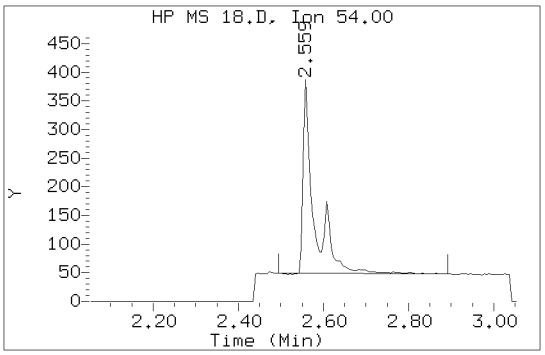
BEFORE

MASS
54
AREA
280
HEIGHT
51
20-Jun-2024
16:33
ALSHS
Server



AFTER

MASS
54
AREA
593
HEIGHT
338
21-Jun-2024
10:19

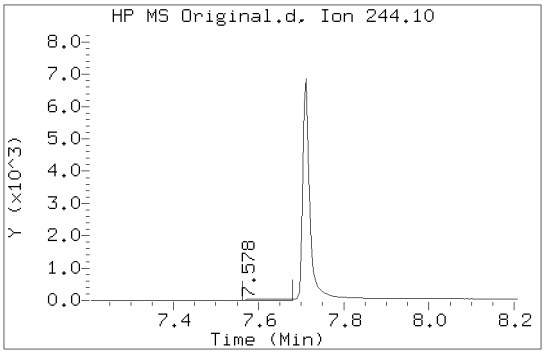


4-Terphenyl-d14 (1718-51-0)

Reason Code: MBA

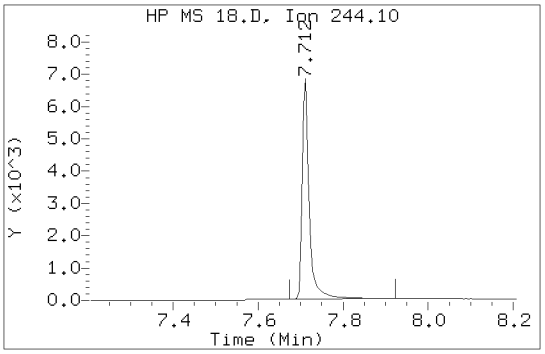
BEFORE

MASS
244.1
AREA
298
HEIGHT
45
20-Jun-2024
16:33
ALSHS
Server



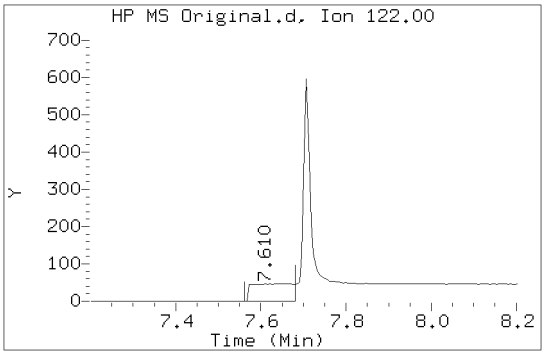
AFTER

MASS
244.1
AREA
7796
HEIGHT
6818
21-Jun-2024
10:19



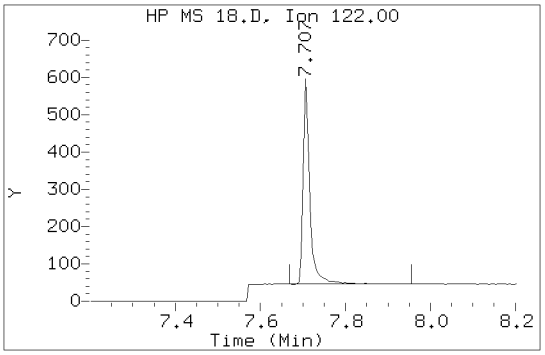
BEFORE

MASS
122
AREA
308
HEIGHT
46
20-Jun-2024
16:33
ALSHS
Server



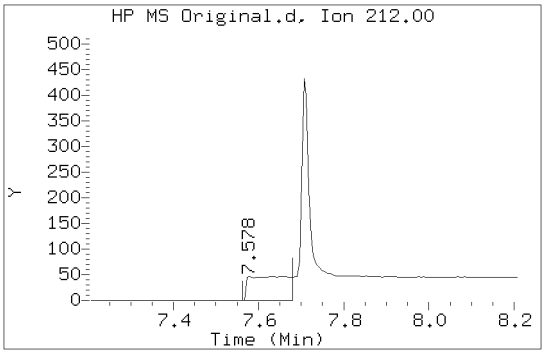
AFTER

MASS
122
AREA
595
HEIGHT
550
21-Jun-2024
10:19



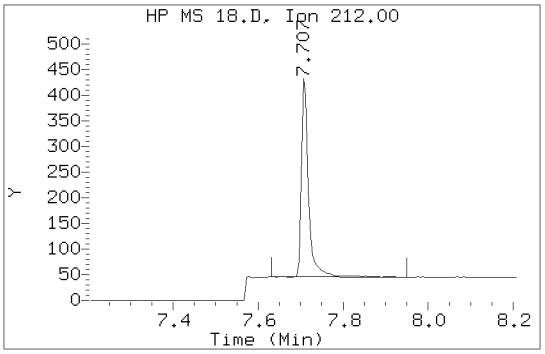
BEFORE

MASS
212
AREA
307
HEIGHT
46
20-Jun-2024
16:33
ALSHS
Server



AFTER

MASS
212
AREA
448
HEIGHT
386
21-Jun-2024
10:19



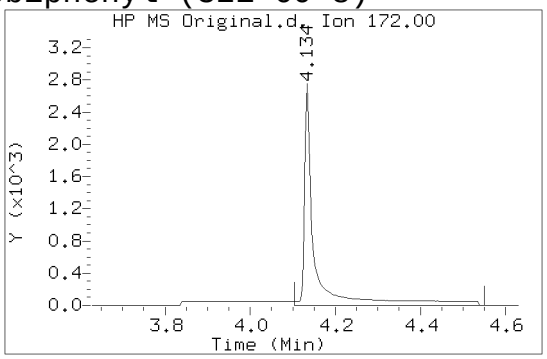
Data File : \\NAHSTWS005\Target\chem\SV6.i\240620.b\18.D
Inj Date : 20-JUN-2024 16:14
InstruID : SV6.i
LabSampID : LCSD-213281

2-Fluorobiphenyl (321-60-8)

Reason Code: MBA

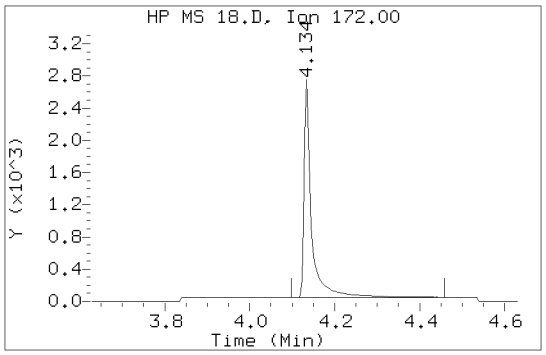
BEFORE

MASS
172
AREA
4575
HEIGHT
2753
20-Jun-2024
16:33
ALSHS
Server



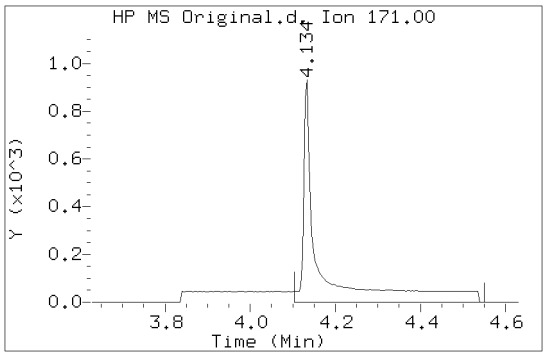
AFTER

MASS
172
AREA
3281
HEIGHT
2707
21-Jun-2024
10:19



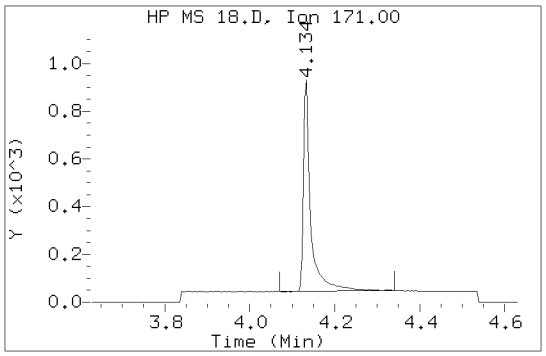
BEFORE

MASS
171
AREA
2304
HEIGHT
931
20-Jun-2024
16:33
ALSHS
Server



AFTER

MASS
171
AREA
1060
HEIGHT
885
21-Jun-2024
10:19



Data File: \\NAHSTWS005\Target\chem\SV6.i\240620.b\19.D Page 1
Report Date: 21-Jun-2024 10:21

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240620.b\19.D
Lab Smp Id: HS24060434-01
Inj Date : 20-JUN-2024 16:32
Operator : LG Inst ID: SV6.i
Smp Info : HS24060434-01
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240620.b\DXSIM.m
Meth Date : 20-Jun-2024 11:53 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

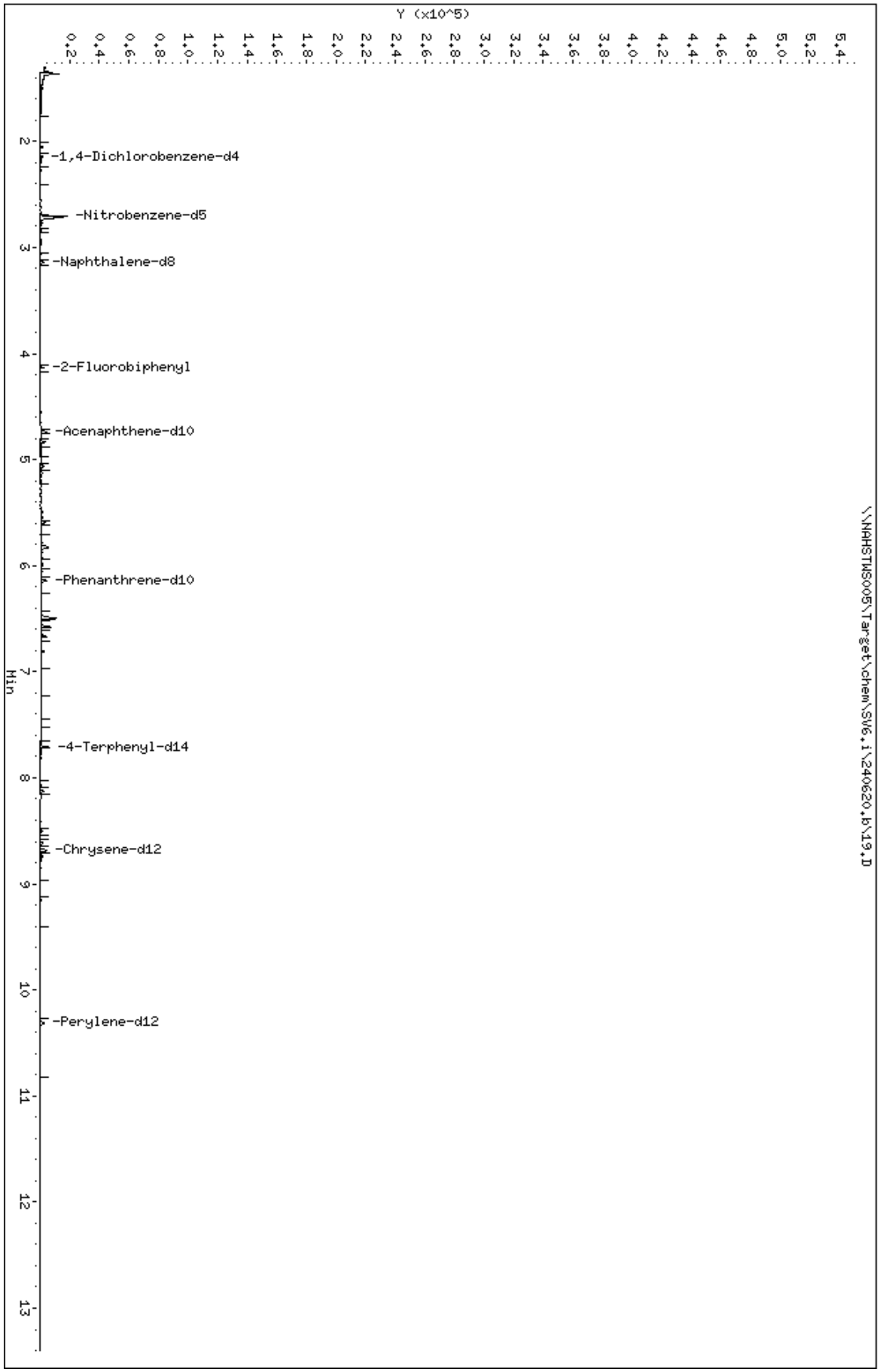
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)	
* 20 1,4-Dichlorobenzene-d4	152	2.145	2.151	(1.000)	1498	0.10000		(aM)
* 45 Naphthalene-d8	136	3.141	3.141	(1.000)	2958	0.10000		
$ 33 Nitrobenzene-d5	82	2.558	2.559	(0.815)	868	0.09775	0.09775	
* 86 Acenaphthene-d10	164	4.742	4.737	(1.000)	1720	0.10000		(QM)
$ 69 2-Fluorobiphenyl	172	4.133	4.130	(0.872)	1594	0.06062	0.06062	
* 126 Phenanthrene-d10	188	6.142	6.142	(1.000)	9994	0.10000		
* 182 Chrysene-d12	240	8.686	8.680	(1.000)	3377	0.10000		(M)
$ 158 4-Terphenyl-d14	244	7.712	7.707	(0.901)	4970	0.07224	0.07224	
* 198 Perylene-d12	264	10.310	10.305	(1.000)	3113	0.10000		
1 1,4-Dioxane	58	0.856	0.886	(0.399)	1501	0.46780	0.4678	(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240620.b\19.D
Date : 20-JUN-2024 16:32
Client ID:
Sample Info: HS24060434-01
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SV6.i
Operator: LG
Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240620.b\19.D

Date : 20-JUN-2024 16:32

Client ID:

Instrument: SV6.i

Sample Info: HS24060434-01

Purge Volume: 1000.0

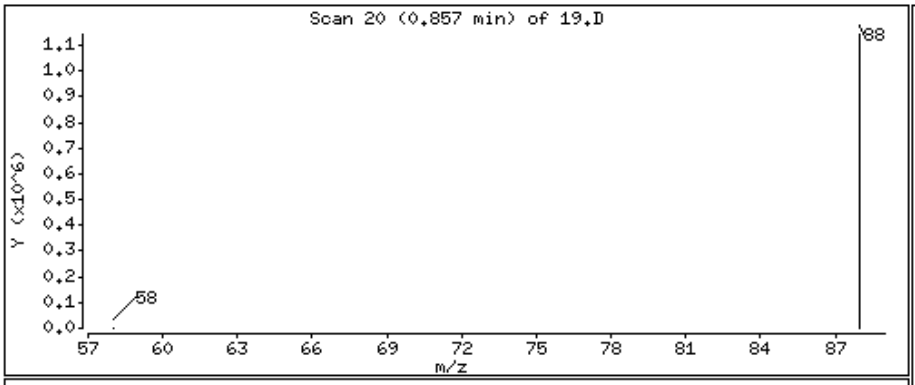
Operator: LG

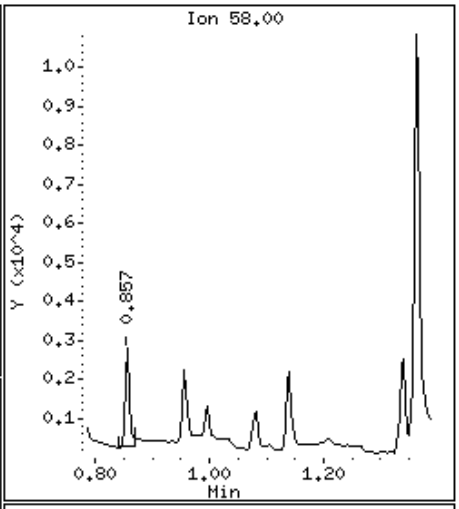
Column phase: RTX-5SIL MS

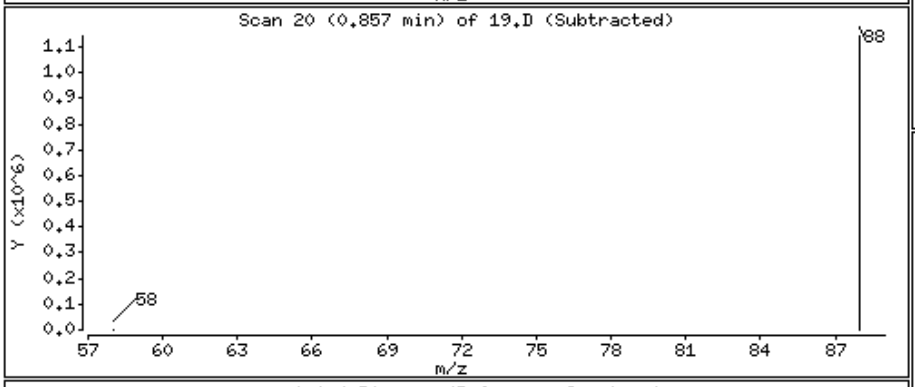
Column diameter: 0.28

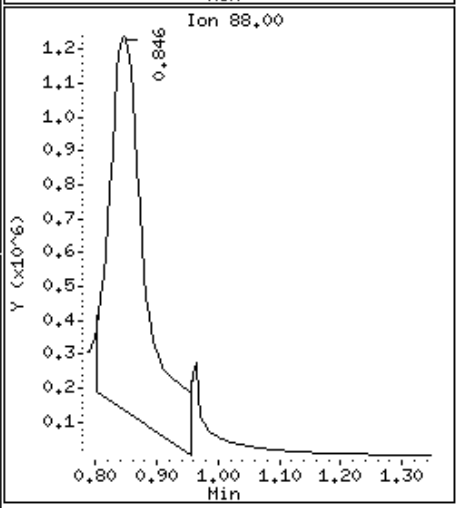
1 1,4-Dioxane

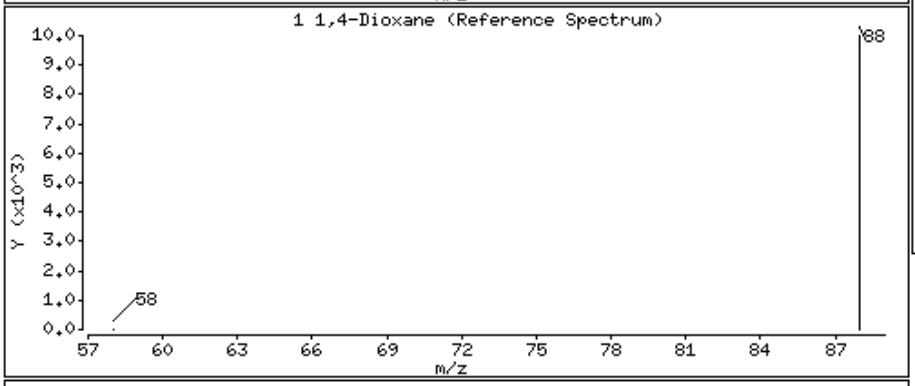
Concentration: 0.4678 ug/L

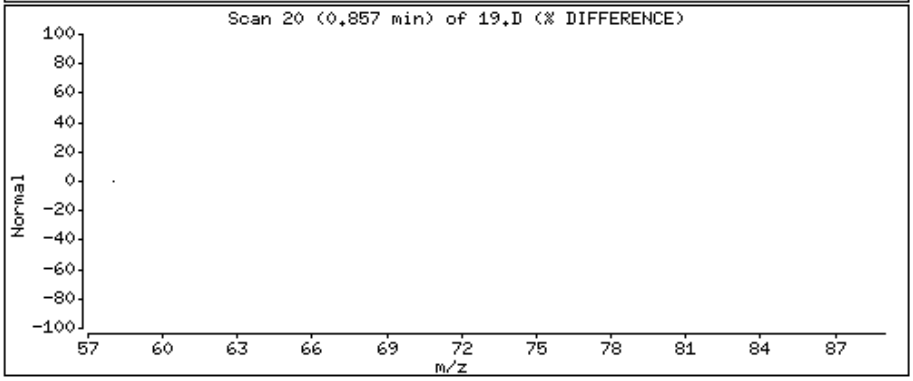












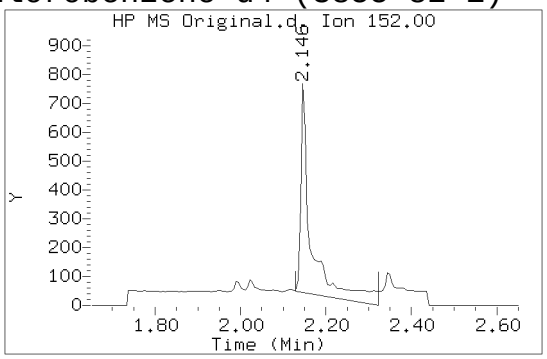
Data File : \\NAHSTWS005\Target\chem\SV6.i\240620.b\19.D
Inj Date : 20-JUN-2024 16:32
InstruID : SV6.i
LabSampID : HS24060434-01

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code: MBA

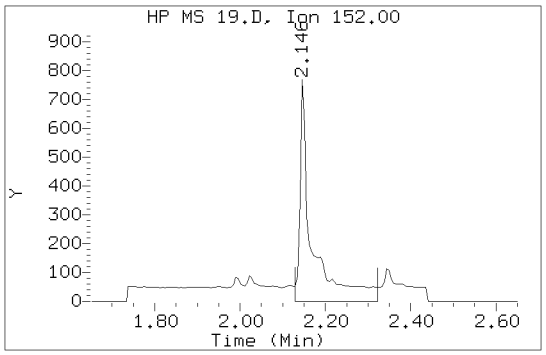
BEFORE

MASS
152
AREA
1212
HEIGHT
724
20-Jun-2024
16:46
ALSHS
Server



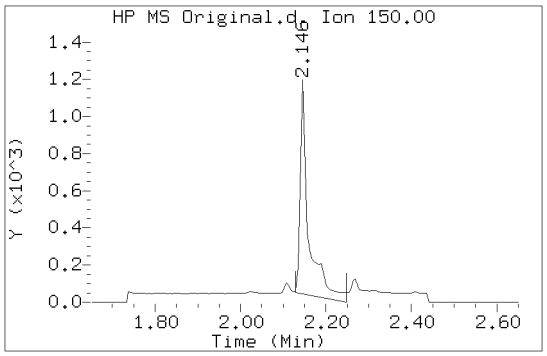
AFTER

MASS
152
AREA
1498
HEIGHT
768
21-Jun-2024
10:21



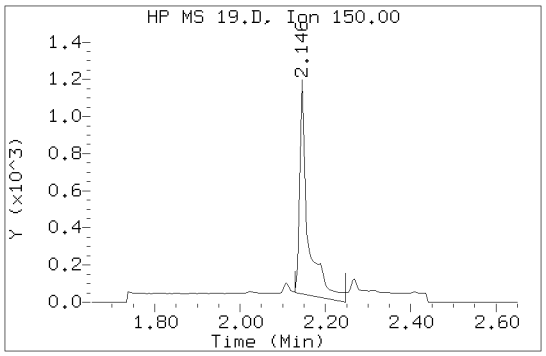
BEFORE

MASS
150
AREA
1568
HEIGHT
1152
20-Jun-2024
16:46
ALSHS
Server



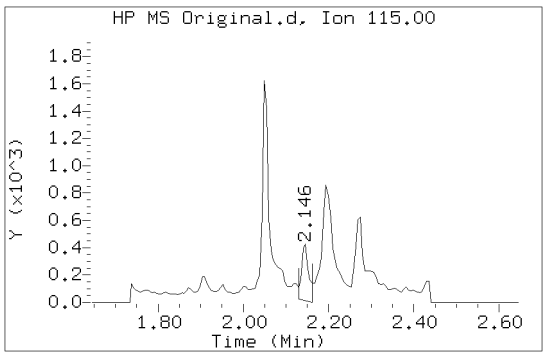
AFTER

MASS
150
AREA
1568
HEIGHT
1152
21-Jun-2024
10:21



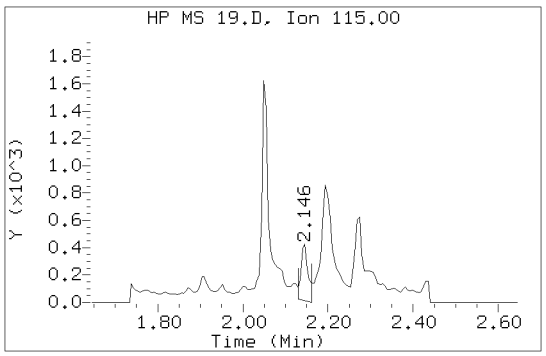
BEFORE

MASS
115
AREA
501
HEIGHT
414
20-Jun-2024
16:46
ALSHS
Server



AFTER

MASS
115
AREA
501
HEIGHT
414
21-Jun-2024
10:21

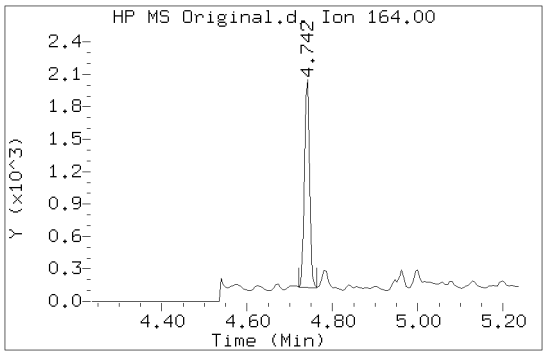


Acenaphthene-d10 (15067-26-2)

Reason Code:

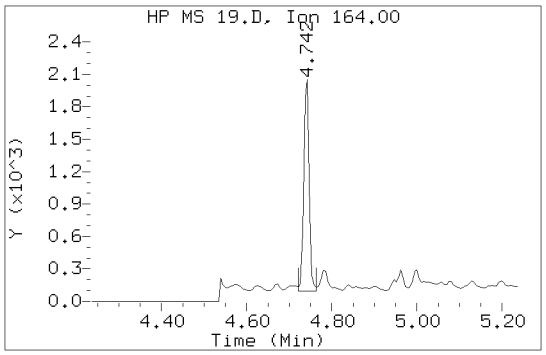
BEFORE

MASS
164
AREA
1623
HEIGHT
1923
20-Jun-2024
16:46
ALSHS
Server



AFTER

MASS
164
AREA
1720
HEIGHT
1957
21-Jun-2024
10:21



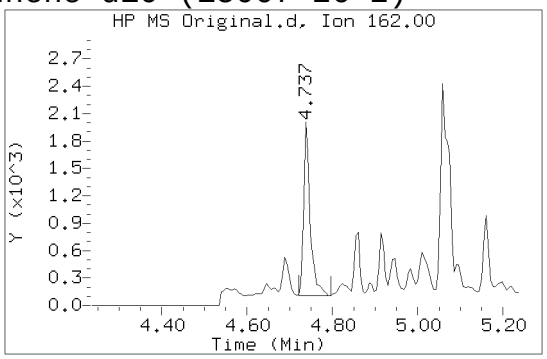
Data File : \\NAHSTWS005\Target\chem\SV6.i\240620.b\19.D
Inj Date : 20-JUN-2024 16:32
InstruID : SV6.i
LabSampID : HS24060434-01

Acenaphthene-d10 (15067-26-2)

Reason Code:

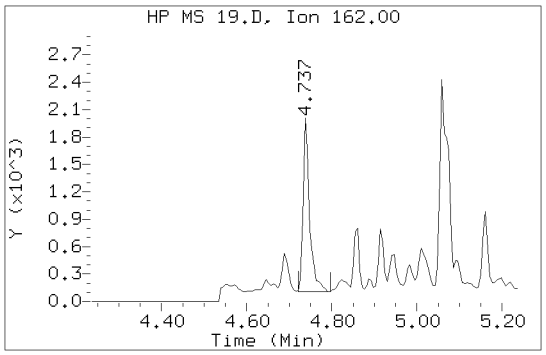
BEFORE

MASS
162
AREA
2001
HEIGHT
1901
20-Jun-2024
16:46
ALSHS
Server



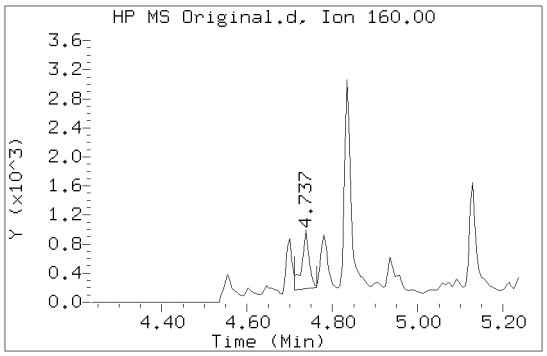
AFTER

MASS
162
AREA
2001
HEIGHT
1901
21-Jun-2024
10:21



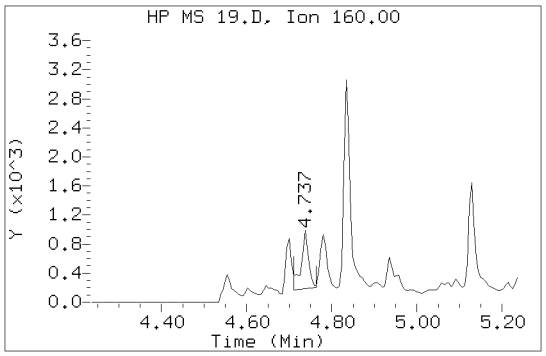
BEFORE

MASS
160
AREA
1007
HEIGHT
812
20-Jun-2024
16:46
ALSHS
Server



AFTER

MASS
160
AREA
1007
HEIGHT
812
21-Jun-2024
10:21

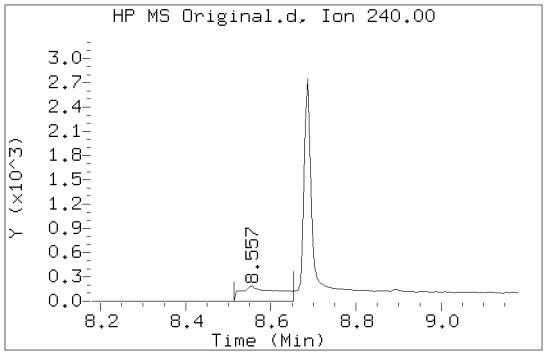


Chrysene-d12 (1719-03-5)

Reason Code:

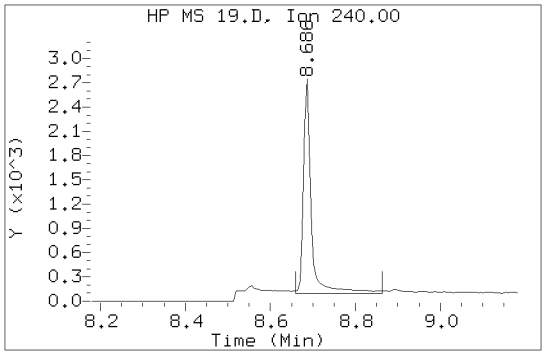
BEFORE

MASS
240
AREA
1151
HEIGHT
190
20-Jun-2024
16:46
ALSHS
Server



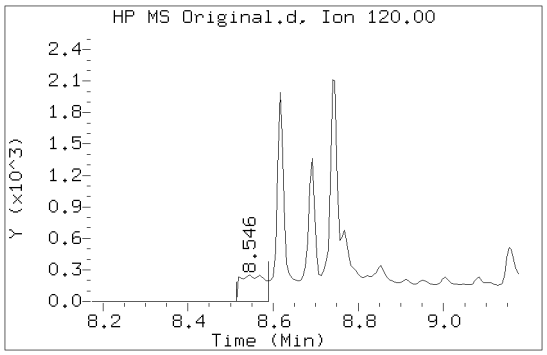
AFTER

MASS
240
AREA
3377
HEIGHT
2652
21-Jun-2024
10:21



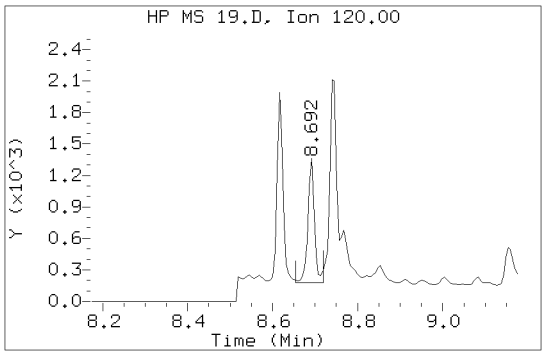
BEFORE

MASS
120
AREA
1016
HEIGHT
251
20-Jun-2024
16:46
ALSHS
Server



AFTER

MASS
120
AREA
1319
HEIGHT
1186
21-Jun-2024
10:21



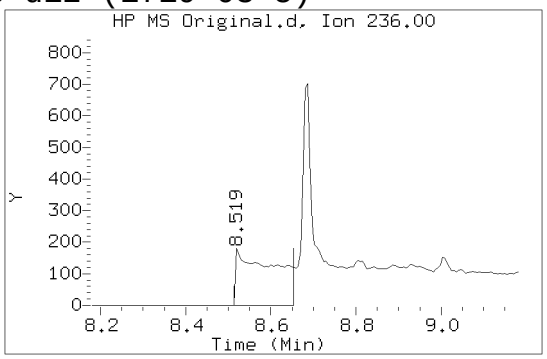
Data File : \\NAHSTWS005\Target\chem\SV6.i\240620.b\19.D
Inj Date : 20-JUN-2024 16:32
InstruID : SV6.i
LabSampID : HS24060434-01

Chrysene-d12 (1719-03-5)

Reason Code:

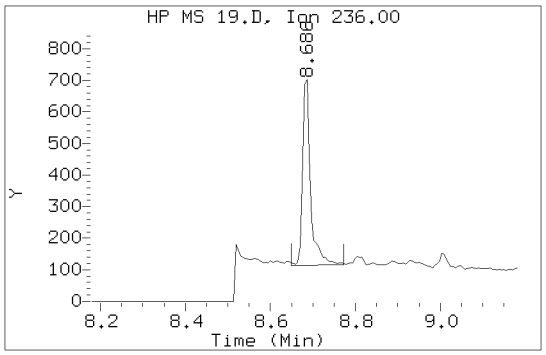
BEFORE

MASS
236
AREA
1102
HEIGHT
180
20-Jun-2024
16:46
ALSHS
Server



AFTER

MASS
236
AREA
762
HEIGHT
588
21-Jun-2024
10:21

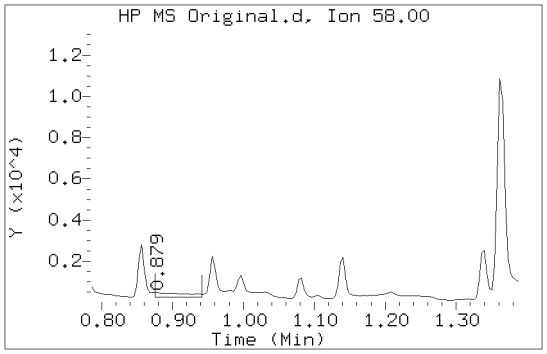


1,4-Dioxane ()

Reason Code:

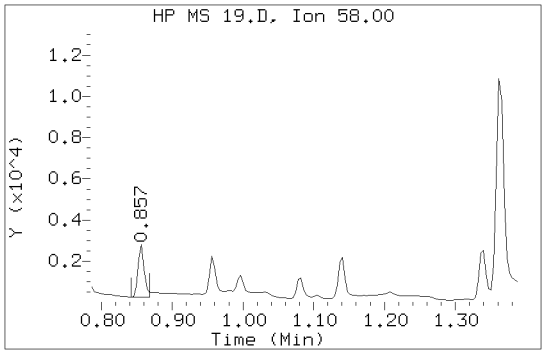
BEFORE

MASS
58
AREA
674
HEIGHT
218
20-Jun-2024
16:46
ALSHS
Server



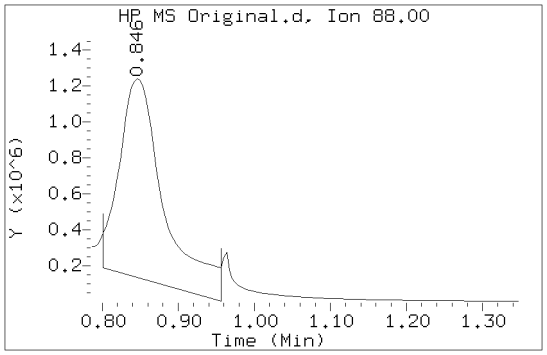
AFTER

MASS
58
AREA
1501
HEIGHT
2528
21-Jun-2024
10:21



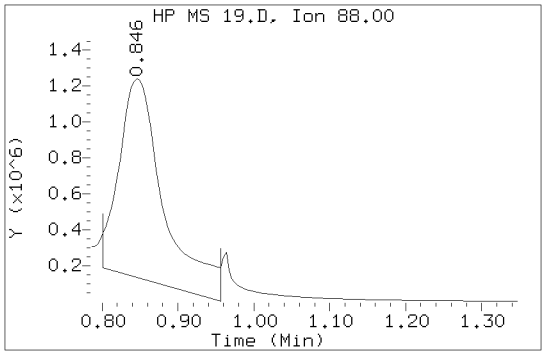
BEFORE

MASS
88
AREA
4517179
HEIGHT
1103667
20-Jun-2024
16:46
ALSHS
Server



AFTER

MASS
88
AREA
4517179
HEIGHT
1103667
21-Jun-2024
10:21



Data File: \\NAHSTWS005\Target\chem\SV6.i\240620.b\20.D Page 1
Report Date: 21-Jun-2024 10:22

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240620.b\20.D
Lab Smp Id: HS24060434-02
Inj Date : 20-JUN-2024 16:49
Operator : LG Inst ID: SV6.i
Smp Info : HS24060434-02
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240620.b\DXSIM.m
Meth Date : 20-Jun-2024 11:53 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.150	2.151	(1.000)	1611	0.10000	(a)
* 45 Naphthalene-d8	136	3.141	3.141	(1.000)	4810	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.558	2.559	(0.815)	932	0.06454	0.06454(M)
* 86 Acenaphthene-d10	164	4.742	4.737	(1.000)	2983	0.10000	
$ 69 2-Fluorobiphenyl	172	4.133	4.130	(0.872)	2568	0.05632	0.05632(M)
* 126 Phenanthrene-d10	188	6.142	6.142	(1.000)	6112	0.10000	
* 182 Chrysene-d12	240	8.686	8.680	(1.000)	5965	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.712	7.707	(0.888)	7602	0.06256	0.06256(M)
* 198 Perylene-d12	264	10.315	10.305	(1.000)	6093	0.10000	
1 1,4-Dioxane	58	0.882	0.886	(0.410)	551	0.15968	0.1597(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240620.b\20.D

Date : 20-JUN-2024 16:49

Client ID:

Instrument: SV6.i

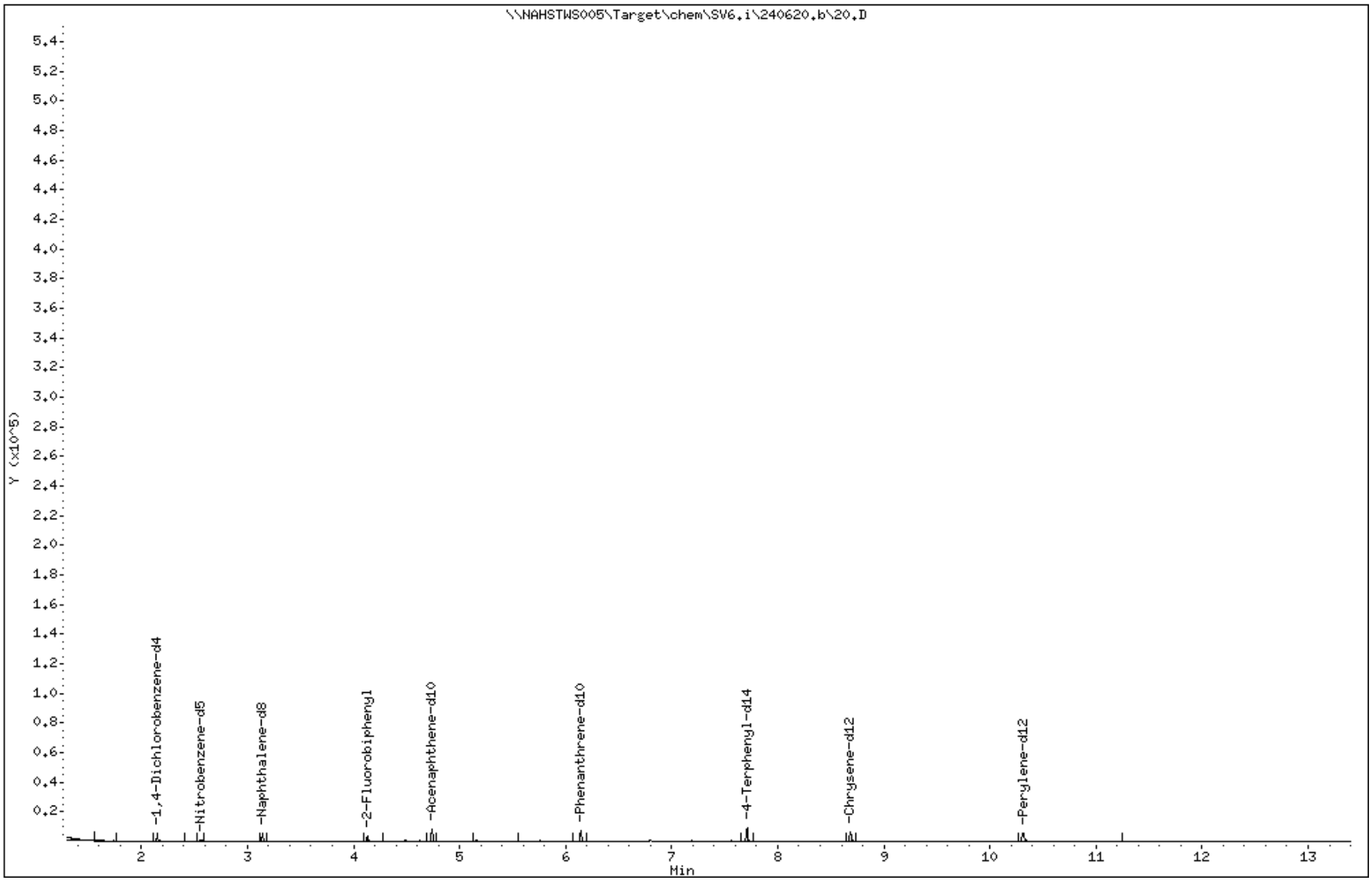
Sample Info: HS24060434-02

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240620.b\20.D Page 2

Date : 20-JUN-2024 16:49

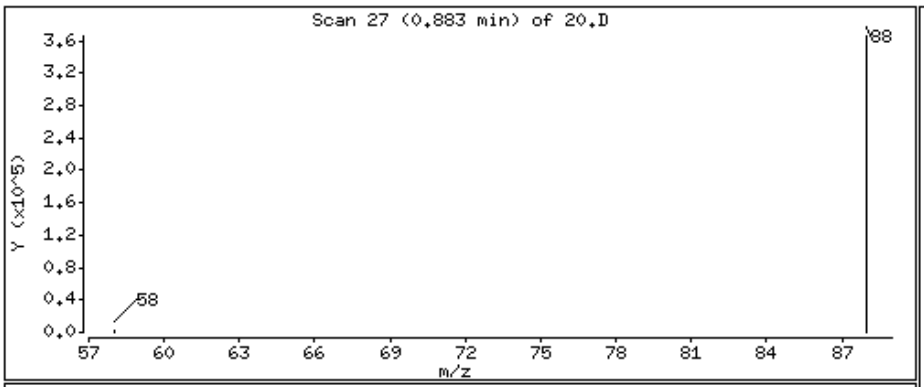
Client ID: Instrument: SV6.i

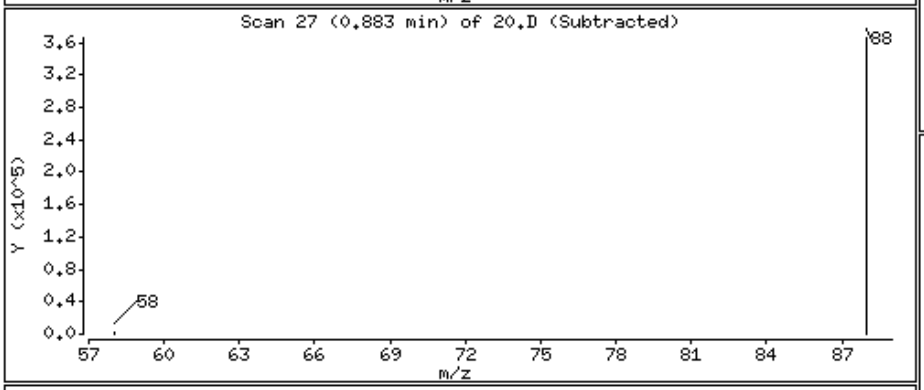
Sample Info: HS24060434-02

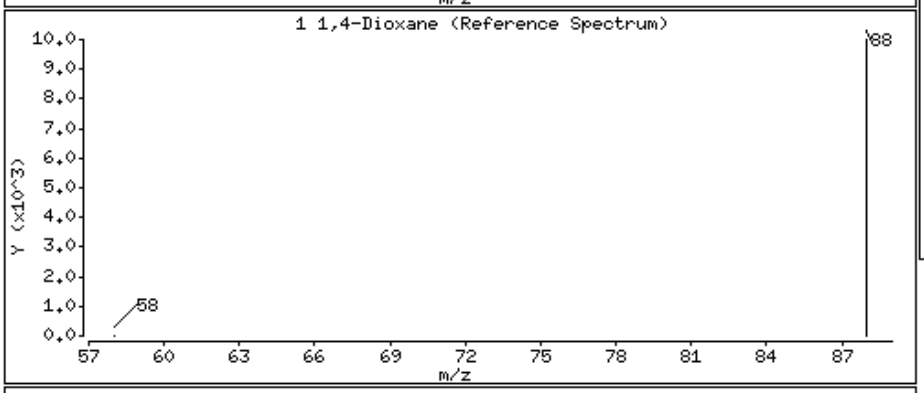
Purge Volume: 1000.0 Operator: LG

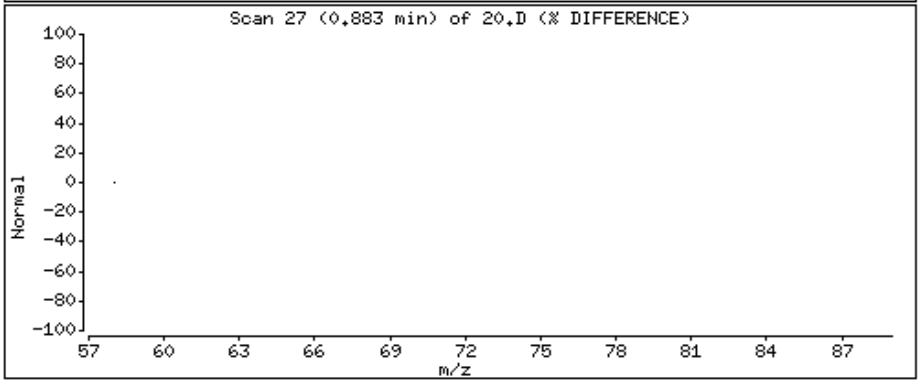
Column phase: RTX-5SIL MS Column diameter: 0.28

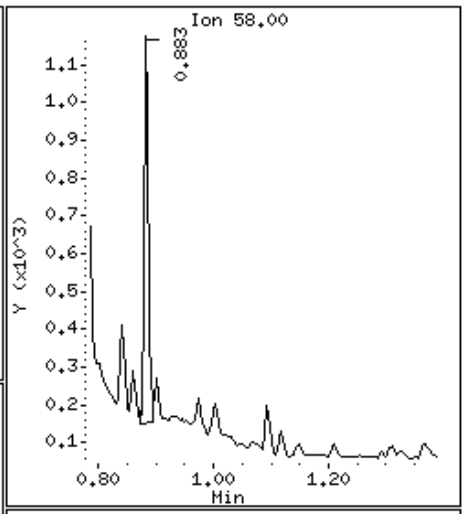
1 1,4-Dioxane Concentration: 0.1597 ug/L

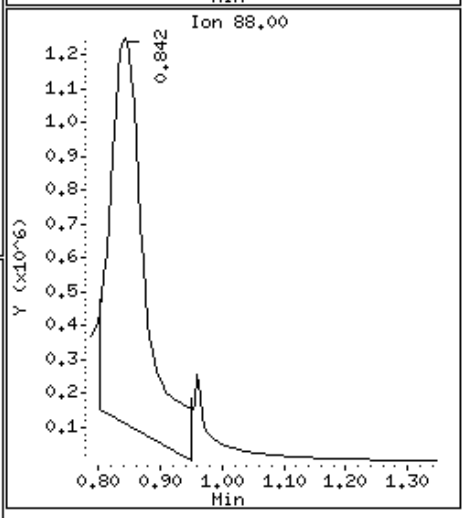












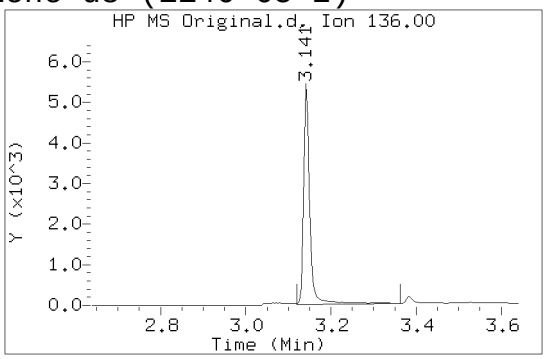
Data File : \\NAHSTWS005\Target\chem\SV6.i\240620.b\20.D
Inj Date : 20-JUN-2024 16:49
InstruID : SV6.i
LabSampID : HS24060434-02

Naphthalene-d8 (1146-65-2)

Reason Code: MBA

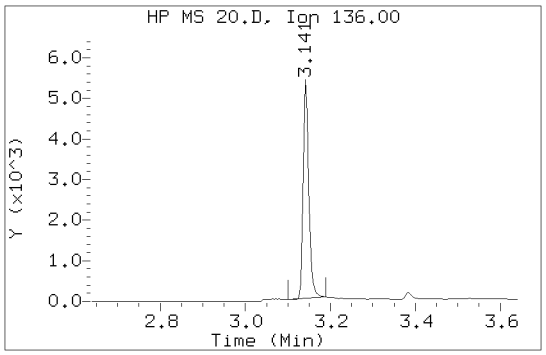
BEFORE

MASS
136
AREA
5371
HEIGHT
5443
20-Jun-2024
17:03
ALSHS
Server



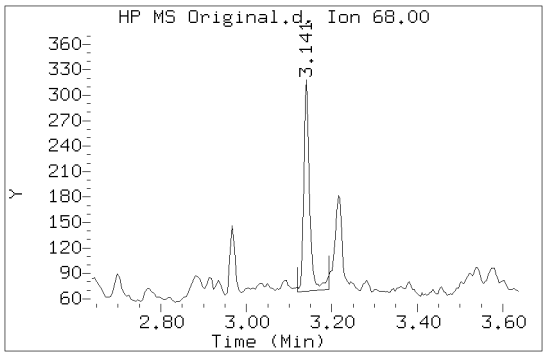
AFTER

MASS
136
AREA
4810
HEIGHT
5384
21-Jun-2024
10:22



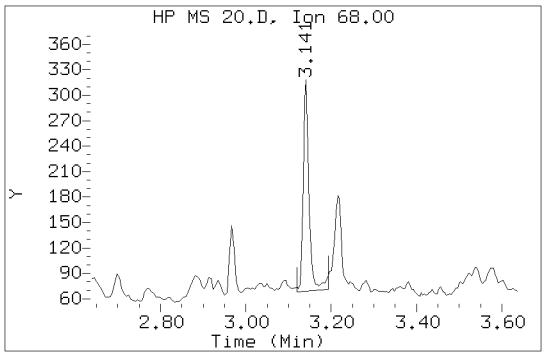
BEFORE

MASS
68
AREA
243
HEIGHT
249
20-Jun-2024
17:03
ALSHS
Server



AFTER

MASS
68
AREA
243
HEIGHT
249
21-Jun-2024
10:22

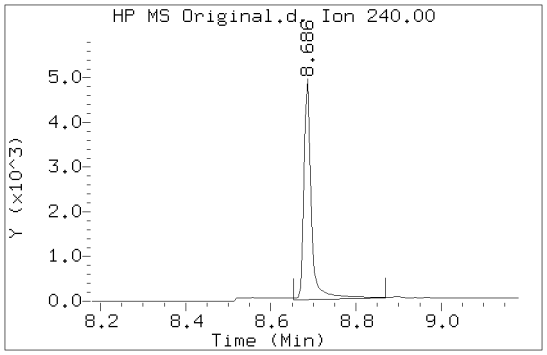


Chrysene-d12 (1719-03-5)

Reason Code:

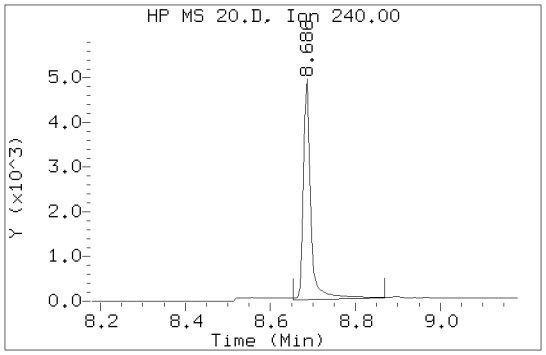
BEFORE

MASS
240
AREA
5965
HEIGHT
4938
20-Jun-2024
17:03
ALSHS
Server



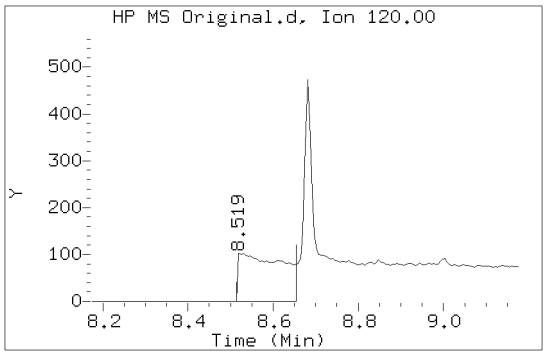
AFTER

MASS
240
AREA
5965
HEIGHT
4938
21-Jun-2024
10:22



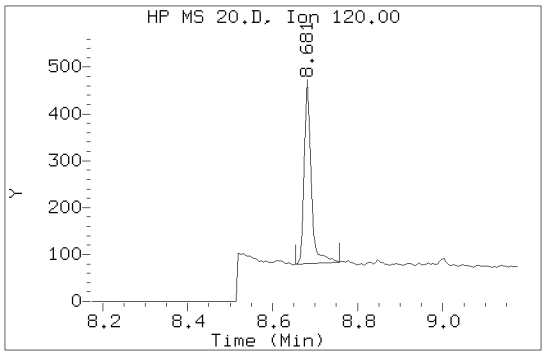
BEFORE

MASS
120
AREA
739
HEIGHT
102
20-Jun-2024
17:03
ALSHS
Server



AFTER

MASS
120
AREA
439
HEIGHT
391
21-Jun-2024
10:22



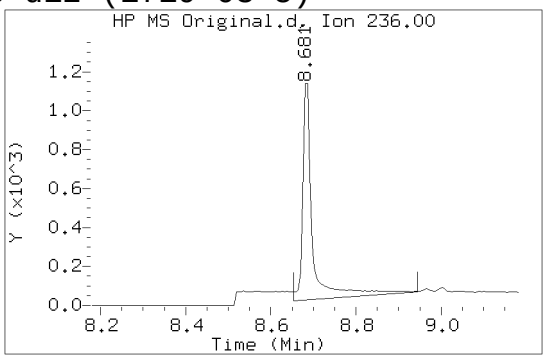
Data File : \\NAHSTWS005\Target\chem\SV6.i\240620.b\20.D
Inj Date : 20-JUN-2024 16:49
InstruID : SV6.i
LabSampID : HS24060434-02

Chrysene-d12 (1719-03-5)

Reason Code:

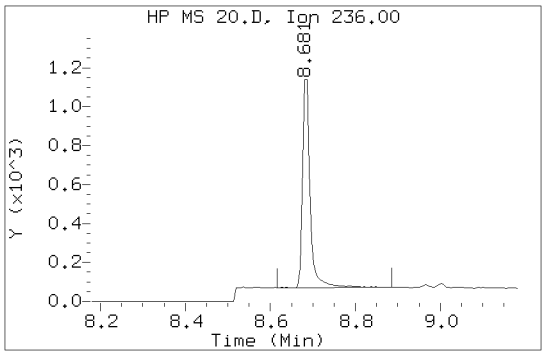
BEFORE

MASS
236
AREA
1763
HEIGHT
1111
20-Jun-2024
17:03
ALSHS
Server



AFTER

MASS
236
AREA
1315
HEIGHT
1069
21-Jun-2024
10:22

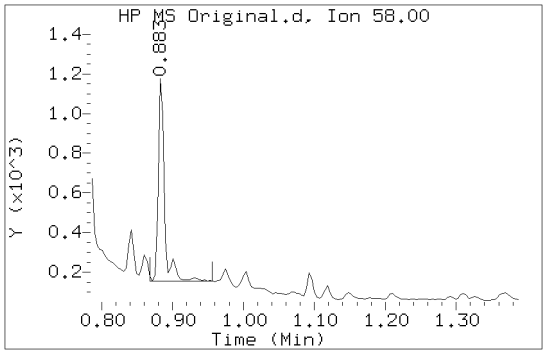


1,4-Dioxane ()

Reason Code:

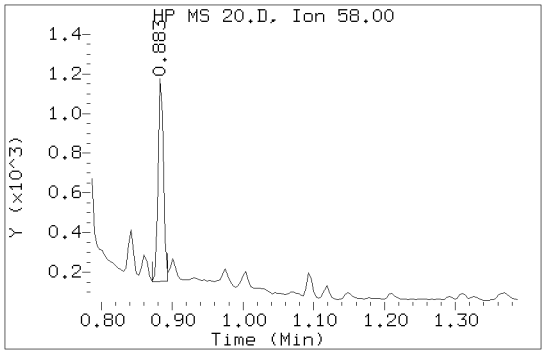
BEFORE

MASS
58
AREA
640
HEIGHT
1022
20-Jun-2024
17:03
ALSHS
Server



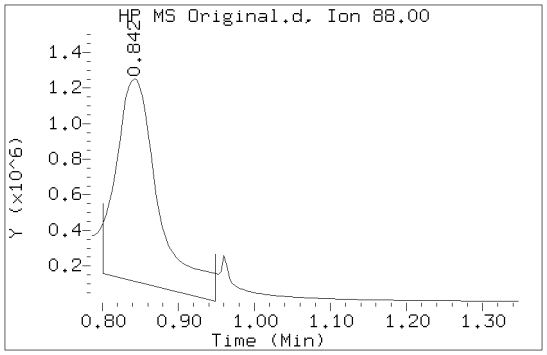
AFTER

MASS
58
AREA
551
HEIGHT
1023
21-Jun-2024
10:22



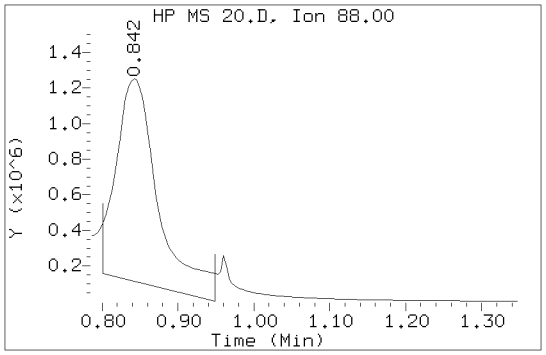
BEFORE

MASS
88
AREA
4395283
HEIGHT
1137590
20-Jun-2024
17:03
ALSHS
Server



AFTER

MASS
88
AREA
4395283
HEIGHT
1137590
21-Jun-2024
10:22

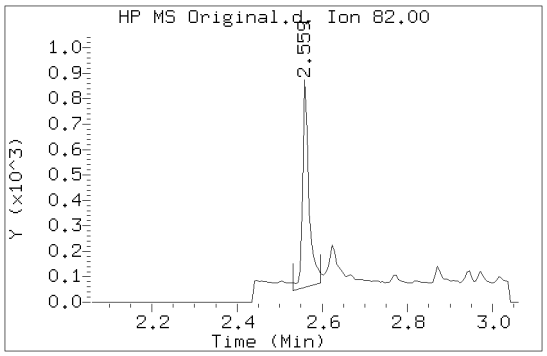


Nitrobenzene-d5 (4165-60-0)

Reason Code: MBA

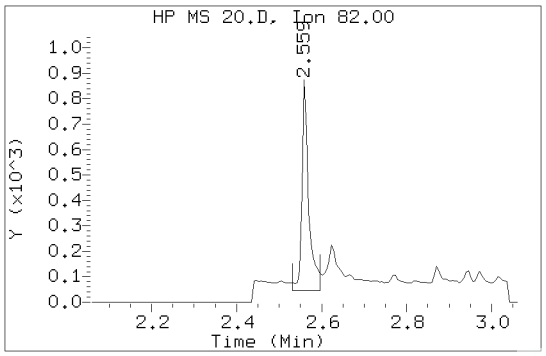
BEFORE

MASS
82
AREA
867
HEIGHT
816
20-Jun-2024
17:03
ALSHS
Server



AFTER

MASS
82
AREA
932
HEIGHT
829
21-Jun-2024
10:22

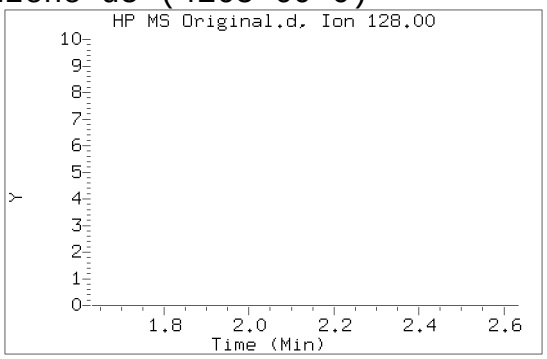


Data File : \\NAHSTWS005\Target\chem\SV6.i\240620.b\20.D
Inj Date : 20-JUN-2024 16:49
InstruID : SV6.i
LabSampID : HS24060434-02

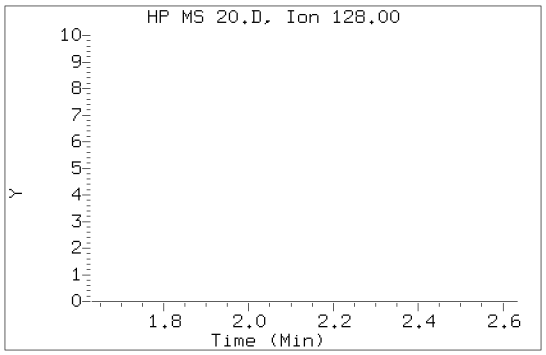
Nitrobenzene-d5 (4165-60-0)

Reason Code: MBA

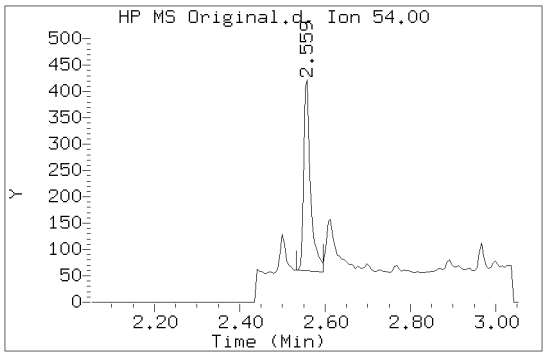
BEFORE
MASS
128
AREA
0
HEIGHT
0
20-Jun-2024
17:03
ALSHS
Server



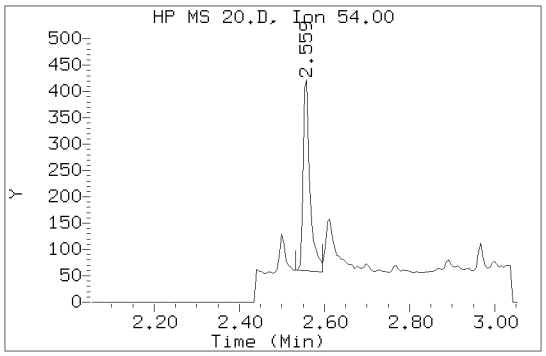
AFTER
MASS
128
AREA
0
HEIGHT
0
21-Jun-2024
10:22



BEFORE
MASS
54
AREA
404
HEIGHT
362
20-Jun-2024
17:03
ALSHS
Server



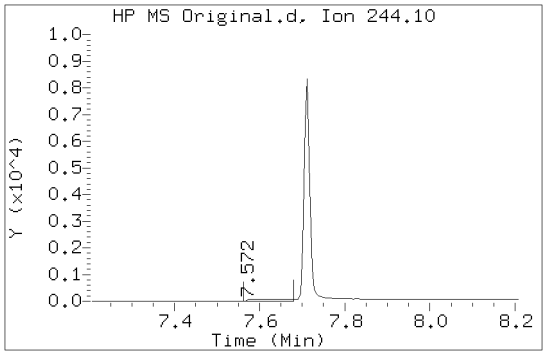
AFTER
MASS
54
AREA
404
HEIGHT
362
21-Jun-2024
10:22



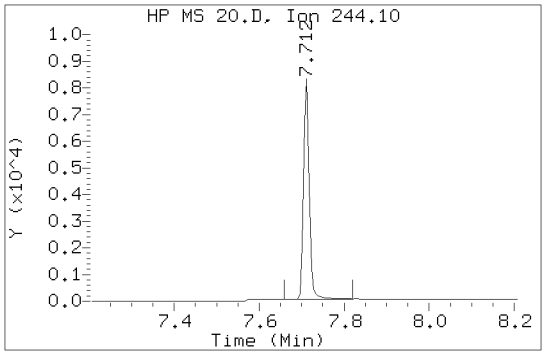
4-Terphenyl-d14 (1718-51-0)

Reason Code:

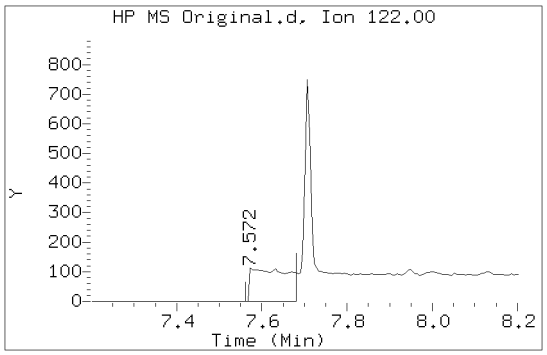
BEFORE
MASS
244.1
AREA
515
HEIGHT
81
20-Jun-2024
17:03
ALSHS
Server



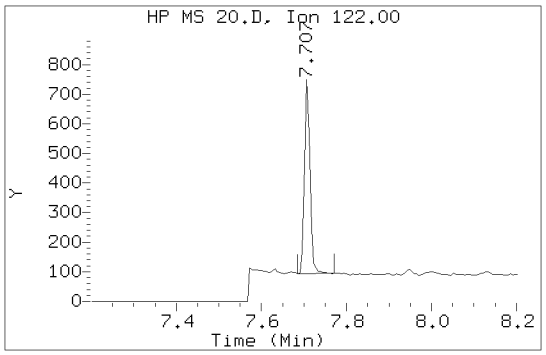
AFTER
MASS
244.1
AREA
7602
HEIGHT
8260
21-Jun-2024
10:22



BEFORE
MASS
122
AREA
683
HEIGHT
113
20-Jun-2024
17:03
ALSHS
Server



AFTER
MASS
122
AREA
578
HEIGHT
654
21-Jun-2024
10:22



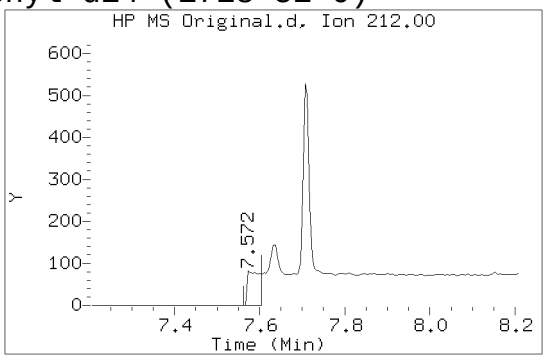
Data File : \\NAHSTWS005\Target\chem\SV6.i\240620.b\20.D
Inj Date : 20-JUN-2024 16:49
InstruID : SV6.i
LabSampID : HS24060434-02

4-Terphenyl-d14 (1718-51-0)

Reason Code:

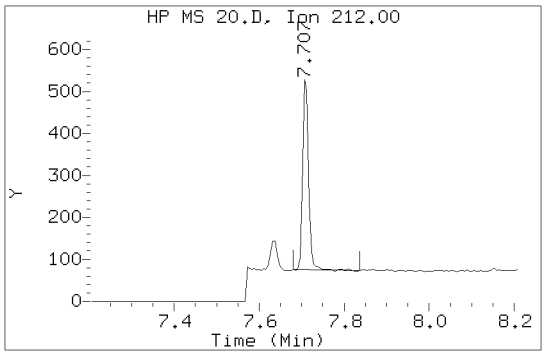
BEFORE

MASS
212
AREA
174
HEIGHT
83
20-Jun-2024
17:03
ALSHS
Server



AFTER

MASS
212
AREA
431
HEIGHT
452
21-Jun-2024
10:22

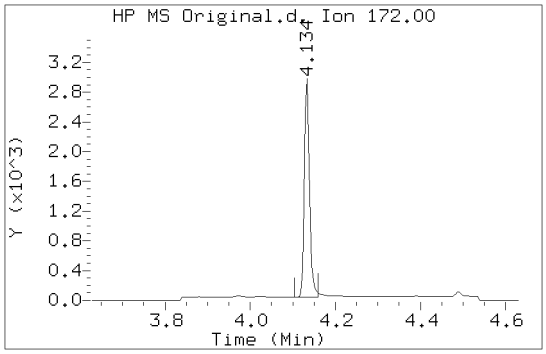


2-Fluorobiphenyl (321-60-8)

Reason Code:

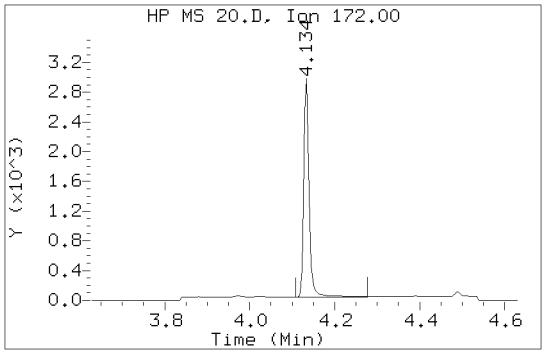
BEFORE

MASS
172
AREA
2472
HEIGHT
2936
20-Jun-2024
17:03
ALSHS
Server



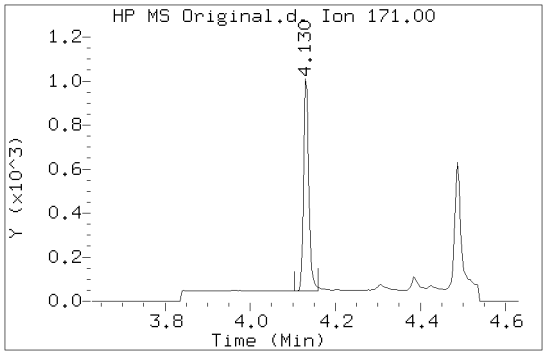
AFTER

MASS
172
AREA
2568
HEIGHT
2937
21-Jun-2024
10:22



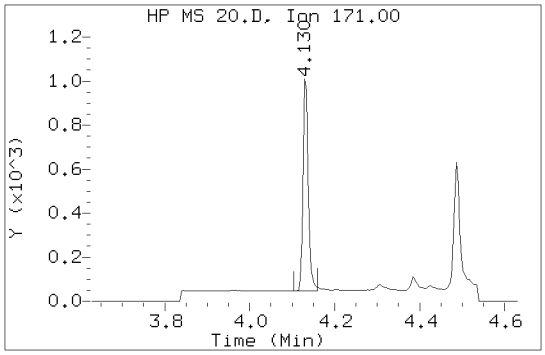
BEFORE

MASS
171
AREA
829
HEIGHT
962
20-Jun-2024
17:03
ALSHS
Server



AFTER

MASS
171
AREA
829
HEIGHT
962
21-Jun-2024
10:22



Data File: \\NAHSTWS005\Target\chem\SV6.i\240620.b\21.D Page 1
Report Date: 21-Jun-2024 10:24

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240620.b\21.D
Lab Smp Id: HS24060434-03
Inj Date : 20-JUN-2024 17:06
Operator : LG Inst ID: SV6.i
Smp Info : HS24060434-03
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240620.b\DXSIM.m
Meth Date : 20-Jun-2024 11:53 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.151	2.151	(1.000)	1498	0.10000	(aQ)
* 45 Naphthalene-d8	136	3.141	3.141	(1.000)	4054	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.558	2.559	(0.815)	744	0.06113	0.06113
* 86 Acenaphthene-d10	164	4.742	4.737	(1.000)	2441	0.10000	
$ 69 2-Fluorobiphenyl	172	4.133	4.130	(0.872)	1946	0.05215	0.05215(M)
* 126 Phenanthrene-d10	188	6.142	6.142	(1.000)	4893	0.10000	(M)
* 182 Chrysene-d12	240	8.686	8.680	(1.000)	4483	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.712	7.707	(0.888)	5548	0.06075	0.06075(M)
* 198 Perylene-d12	264	10.315	10.305	(1.000)	4684	0.10000	
1 1,4-Dioxane	58	0.875	0.886	(0.407)	125	0.03896	0.03896(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240620.b\21.D

Date : 20-JUN-2024 17:06

Client ID:

Instrument: SV6.i

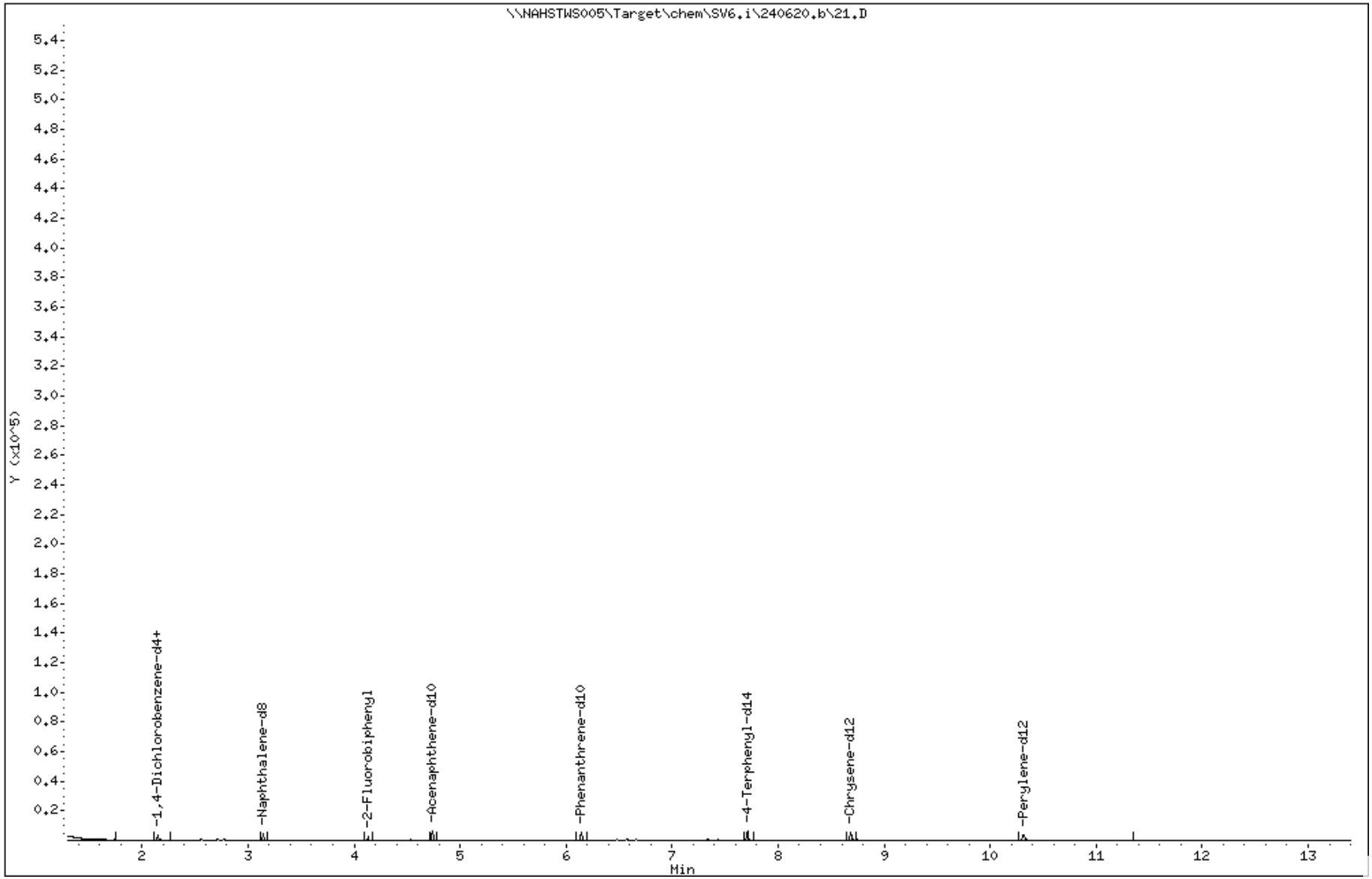
Sample Info: HS24060434-03

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240620.b\21.D

Date : 20-JUN-2024 17:06

Client ID:

Instrument: SV6.i

Sample Info: HS24060434-03

Purge Volume: 1000.0

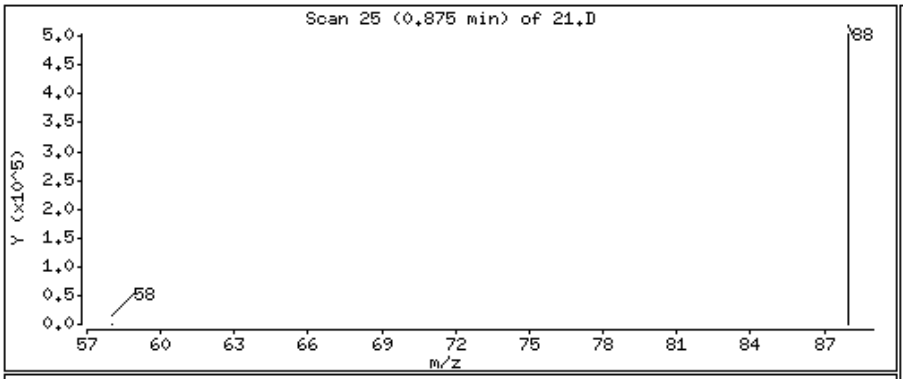
Operator: LG

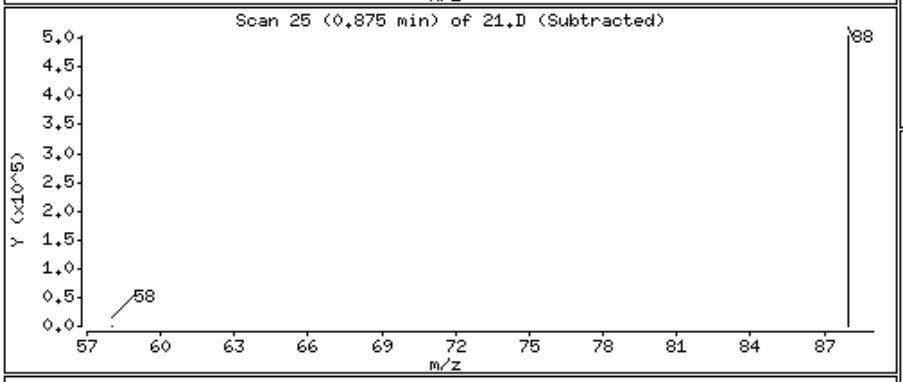
Column phase: RTX-5SIL MS

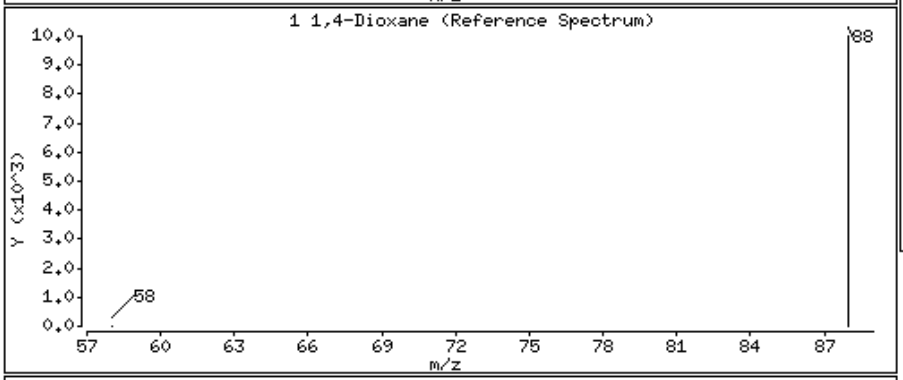
Column diameter: 0.28

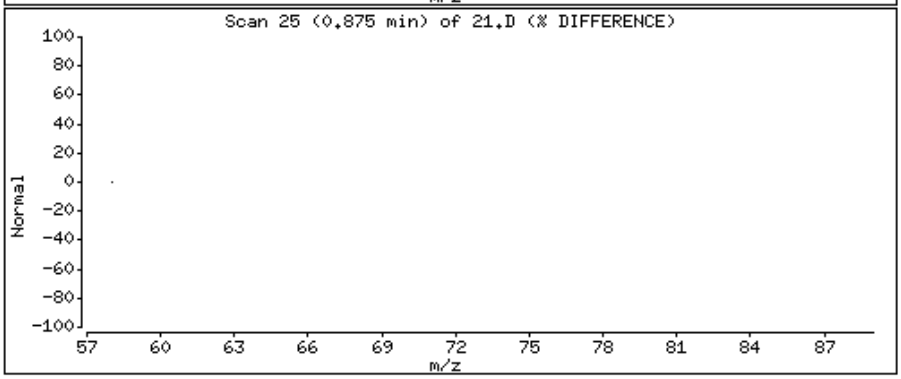
1 1,4-Dioxane

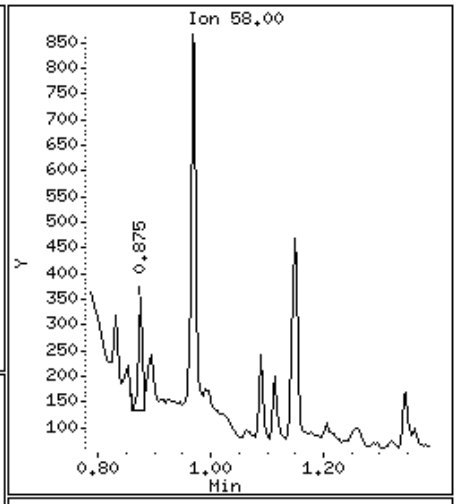
Concentration: 0.03896 ug/L

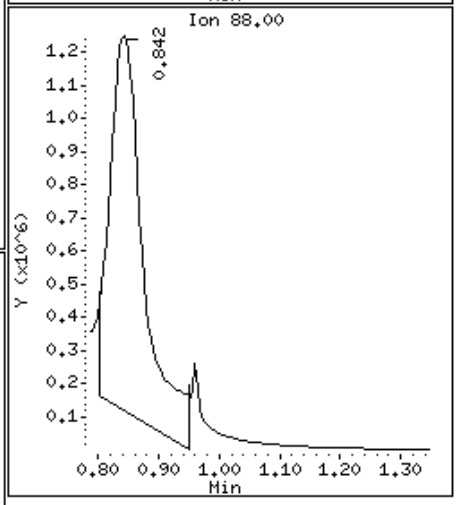












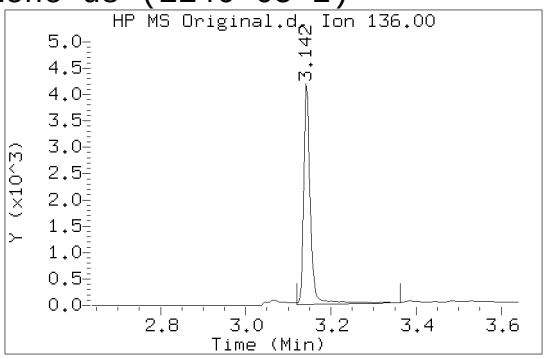
Data File : \\NAHSTWS005\Target\chem\SV6.i\240620.b\21.D
Inj Date : 20-JUN-2024 17:06
InstruID : SV6.i
LabSampID : HS24060434-03

Naphthalene-d8 (1146-65-2)

Reason Code:

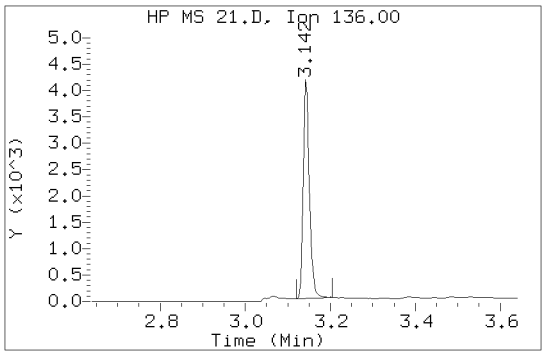
BEFORE

MASS
136
AREA
4485
HEIGHT
4188
20-Jun-2024
17:21
ALSHS
Server



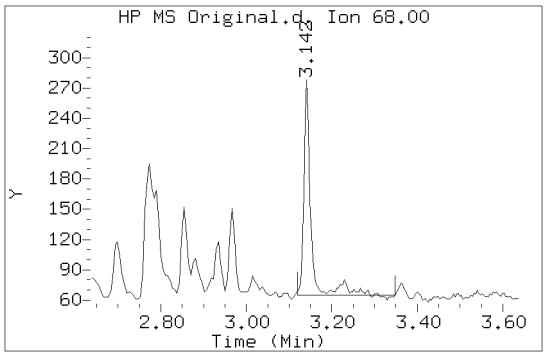
AFTER

MASS
136
AREA
4054
HEIGHT
4147
21-Jun-2024
10:24



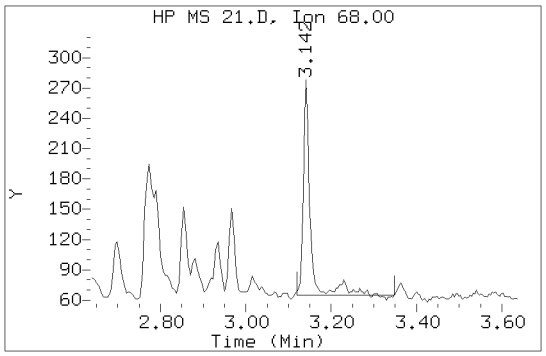
BEFORE

MASS
68
AREA
240
HEIGHT
213
20-Jun-2024
17:21
ALSHS
Server



AFTER

MASS
68
AREA
240
HEIGHT
213
21-Jun-2024
10:24

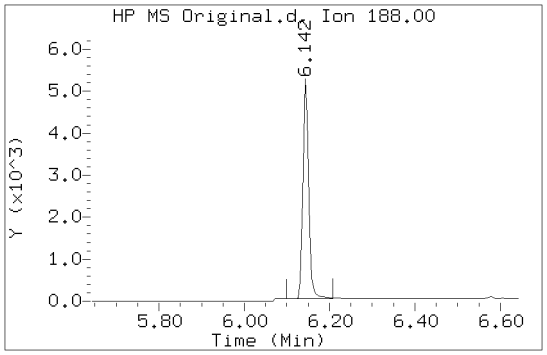


Phenanthrene-d10 (1517-22-2)

Reason Code:

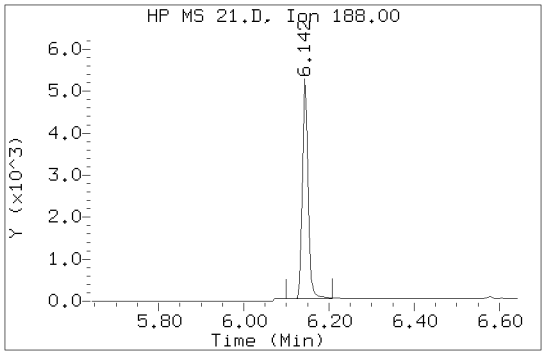
BEFORE

MASS
188
AREA
4893
HEIGHT
5235
20-Jun-2024
17:21
ALSHS
Server



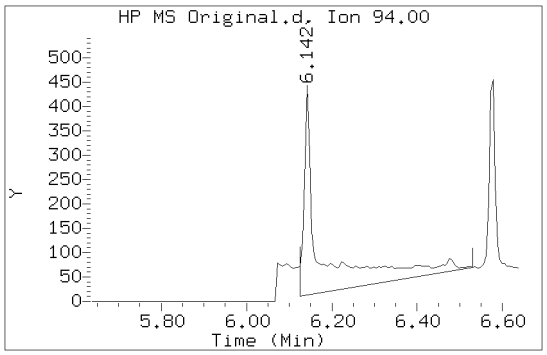
AFTER

MASS
188
AREA
4893
HEIGHT
5235
21-Jun-2024
10:24



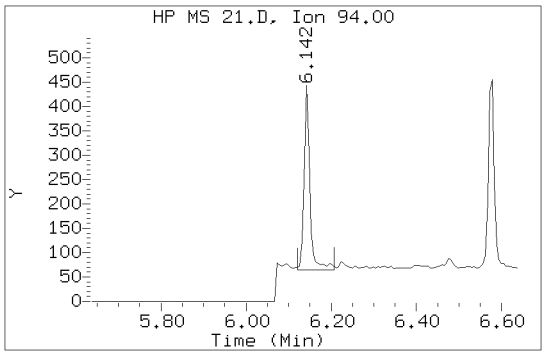
BEFORE

MASS
94
AREA
1091
HEIGHT
429
20-Jun-2024
17:21
ALSHS
Server



AFTER

MASS
94
AREA
366
HEIGHT
379
21-Jun-2024
10:24

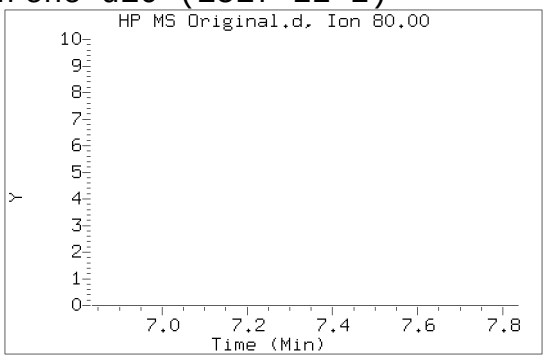


Data File : \\NAHSTWS005\Target\chem\SV6.i\240620.b\21.D
Inj Date : 20-JUN-2024 17:06
InstruID : SV6.i
LabSampID : HS24060434-03

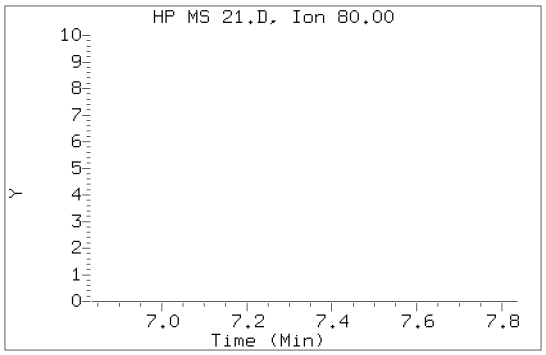
Phenanthrene-d10 (1517-22-2)

Reason Code:

BEFORE
MASS
80
AREA
0
HEIGHT
0
20-Jun-2024
17:21
ALSHS
Server



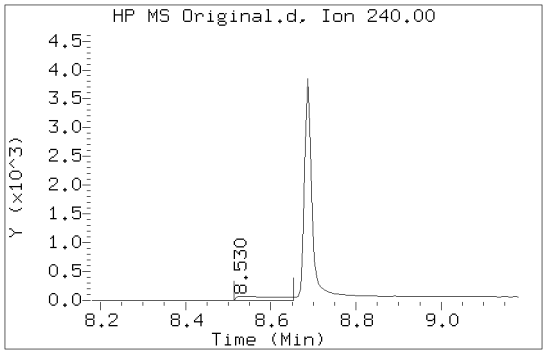
AFTER
MASS
80
AREA
0
HEIGHT
0
21-Jun-2024
10:24



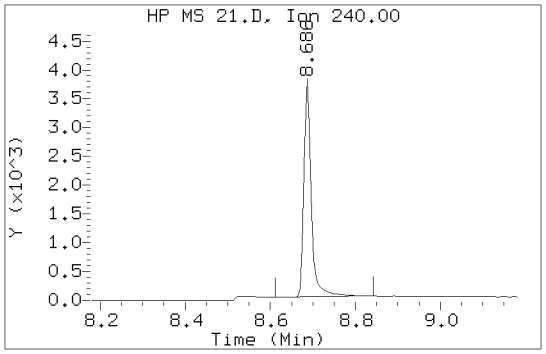
Chrysene-d12 (1719-03-5)

Reason Code:

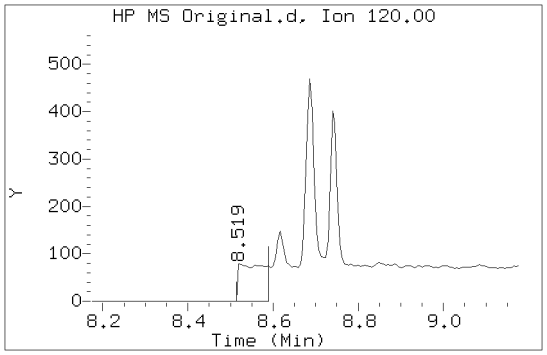
BEFORE
MASS
240
AREA
516
HEIGHT
68
20-Jun-2024
17:21
ALSHS
Server



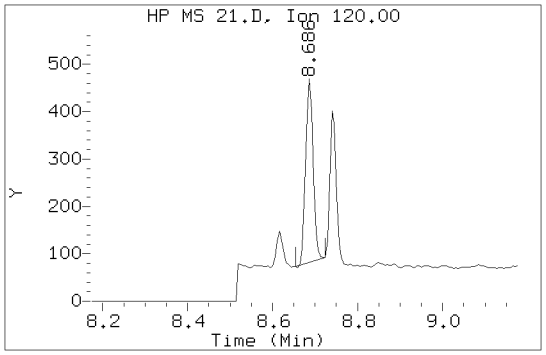
AFTER
MASS
240
AREA
4483
HEIGHT
3783
21-Jun-2024
10:24



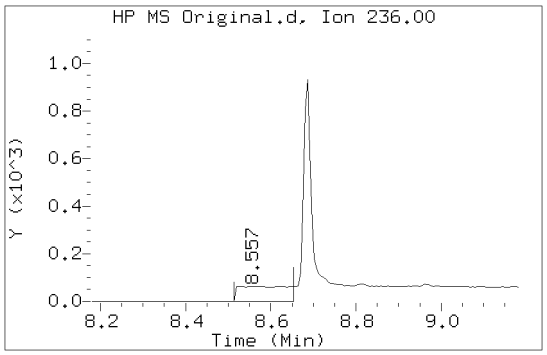
BEFORE
MASS
120
AREA
335
HEIGHT
78
20-Jun-2024
17:21
ALSHS
Server



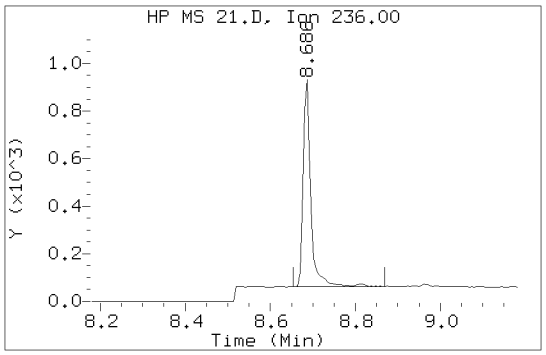
AFTER
MASS
120
AREA
475
HEIGHT
387
21-Jun-2024
10:24



BEFORE
MASS
236
AREA
512
HEIGHT
63
20-Jun-2024
17:21
ALSHS
Server



AFTER
MASS
236
AREA
1078
HEIGHT
870
21-Jun-2024
10:24

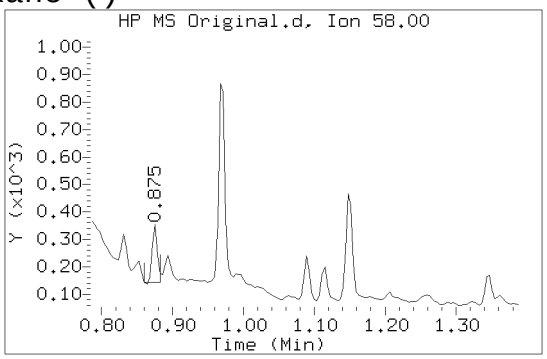


Data File : \\NAHSTWS005\Target\chem\SV6.i\240620.b\21.D
Inj Date : 20-JUN-2024 17:06
InstruID : SV6.i
LabSampID : HS24060434-03

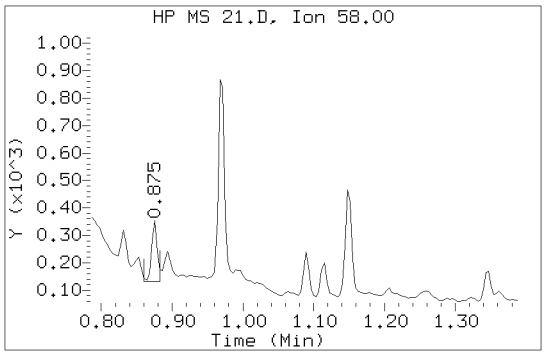
1,4-Dioxane ()

Reason Code:

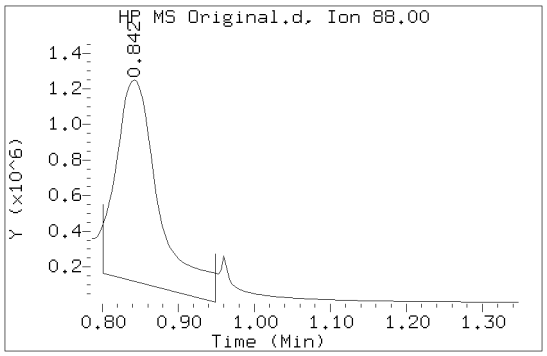
BEFORE
MASS
58
AREA
108
HEIGHT
210
20-Jun-2024
17:21
ALSHS
Server



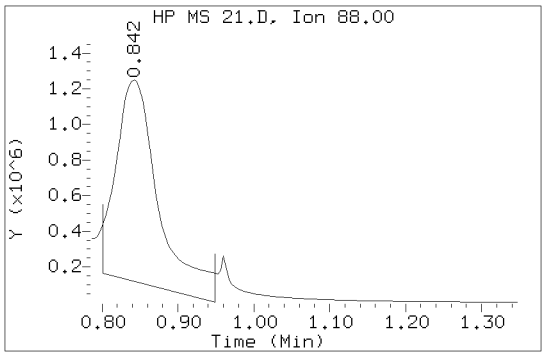
AFTER
MASS
58
AREA
125
HEIGHT
221
21-Jun-2024
10:24



BEFORE
MASS
88
AREA
4419874
HEIGHT
1130562
20-Jun-2024
17:21
ALSHS
Server



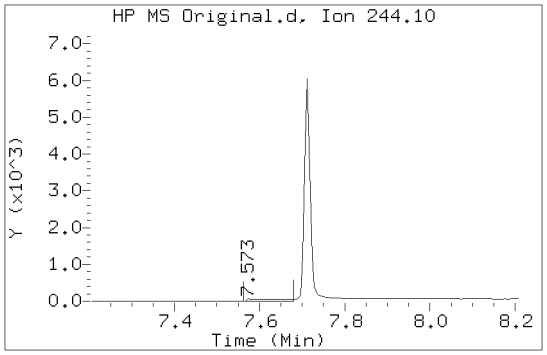
AFTER
MASS
88
AREA
4419874
HEIGHT
1130562
21-Jun-2024
10:24



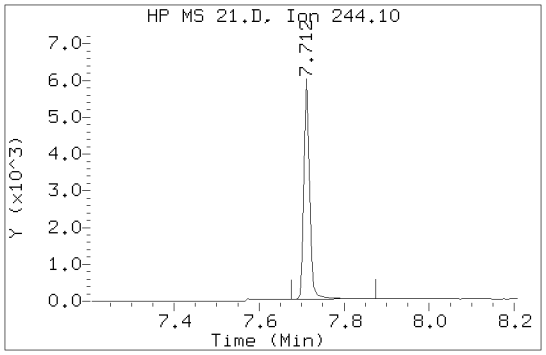
4-Terphenyl-d14 (1718-51-0)

Reason Code:

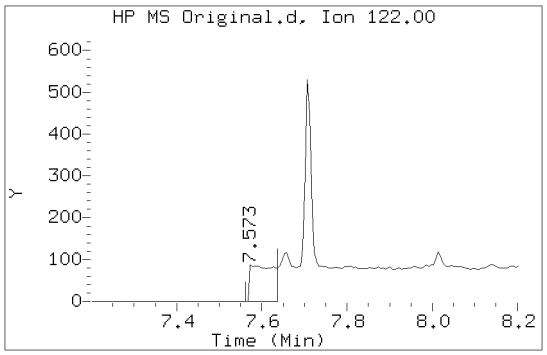
BEFORE
MASS
244.1
AREA
405
HEIGHT
62
20-Jun-2024
17:21
ALSHS
Server



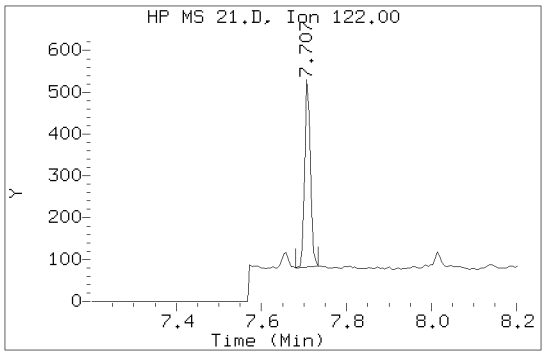
AFTER
MASS
244.1
AREA
5548
HEIGHT
5982
21-Jun-2024
10:24



BEFORE
MASS
122
AREA
341
HEIGHT
87
20-Jun-2024
17:21
ALSHS
Server



AFTER
MASS
122
AREA
407
HEIGHT
447
21-Jun-2024
10:24



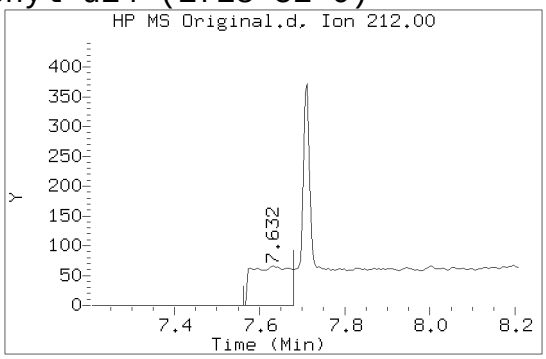
Data File : \\NAHSTWS005\Target\chem\SV6.i\240620.b\21.D
Inj Date : 20-JUN-2024 17:06
InstruID : SV6.i
LabSampID : HS24060434-03

4-Terphenyl-d14 (1718-51-0)

Reason Code:

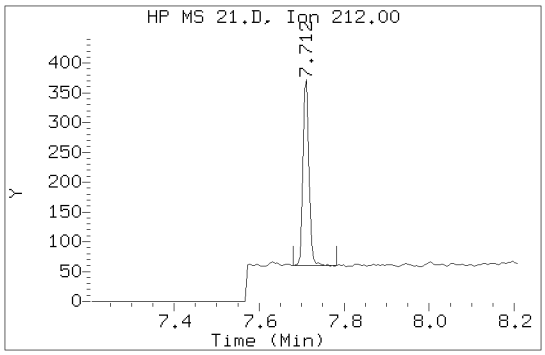
BEFORE

MASS
212
AREA
416
HEIGHT
67
20-Jun-2024
17:21
ALSHS
Server



AFTER

MASS
212
AREA
306
HEIGHT
312
21-Jun-2024
10:24

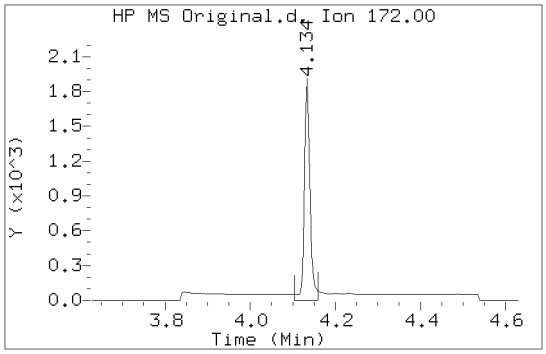


2-Fluorobiphenyl (321-60-8)

Reason Code:

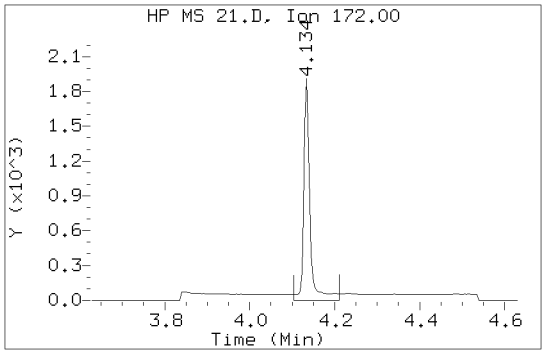
BEFORE

MASS
172
AREA
1756
HEIGHT
1910
20-Jun-2024
17:21
ALSHS
Server



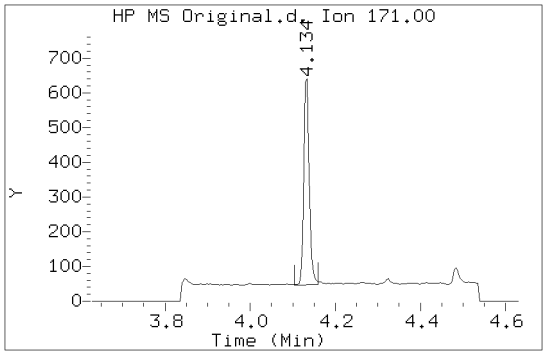
AFTER

MASS
172
AREA
1946
HEIGHT
1911
21-Jun-2024
10:24



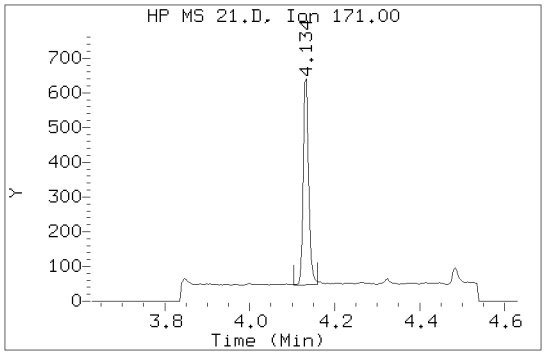
BEFORE

MASS
171
AREA
534
HEIGHT
592
20-Jun-2024
17:21
ALSHS
Server



AFTER

MASS
171
AREA
534
HEIGHT
592
21-Jun-2024
10:24



Data File: \\NAHSTWS005\Target\chem\SV6.i\240620.b\22.D Page 1
Report Date: 21-Jun-2024 10:25

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240620.b\22.D
Lab Smp Id: HS24060434-06
Inj Date : 20-JUN-2024 17:24
Operator : LG Inst ID: SV6.i
Smp Info : HS24060434-06
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240620.b\DXSIM.m
Meth Date : 20-Jun-2024 11:53 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.151	2.151	(1.000)	2280	0.10000	(aQ)
* 45 Naphthalene-d8	136	3.141	3.141	(1.000)	4236	0.10000	
$ 33 Nitrobenzene-d5	82	2.558	2.559	(0.815)	944	0.07423	0.07423
* 86 Acenaphthene-d10	164	4.742	4.737	(1.000)	2604	0.10000	
$ 69 2-Fluorobiphenyl	172	4.133	4.130	(0.872)	3045	0.07650	0.07650
* 126 Phenanthrene-d10	188	6.147	6.142	(1.000)	5073	0.10000	
* 182 Chrysene-d12	240	8.616	8.680	(1.000)	457	0.10000	(Q)
$ 158 4-Terphenyl-d14	244	7.712	7.707	(0.895)	6456	0.69346	0.6934(AR)
* 198 Perylene-d12	264	10.315	10.305	(1.000)	4941	0.10000	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240620.b\22.D

Date : 20-JUN-2024 17:24

Client ID:

Instrument: SV6.i

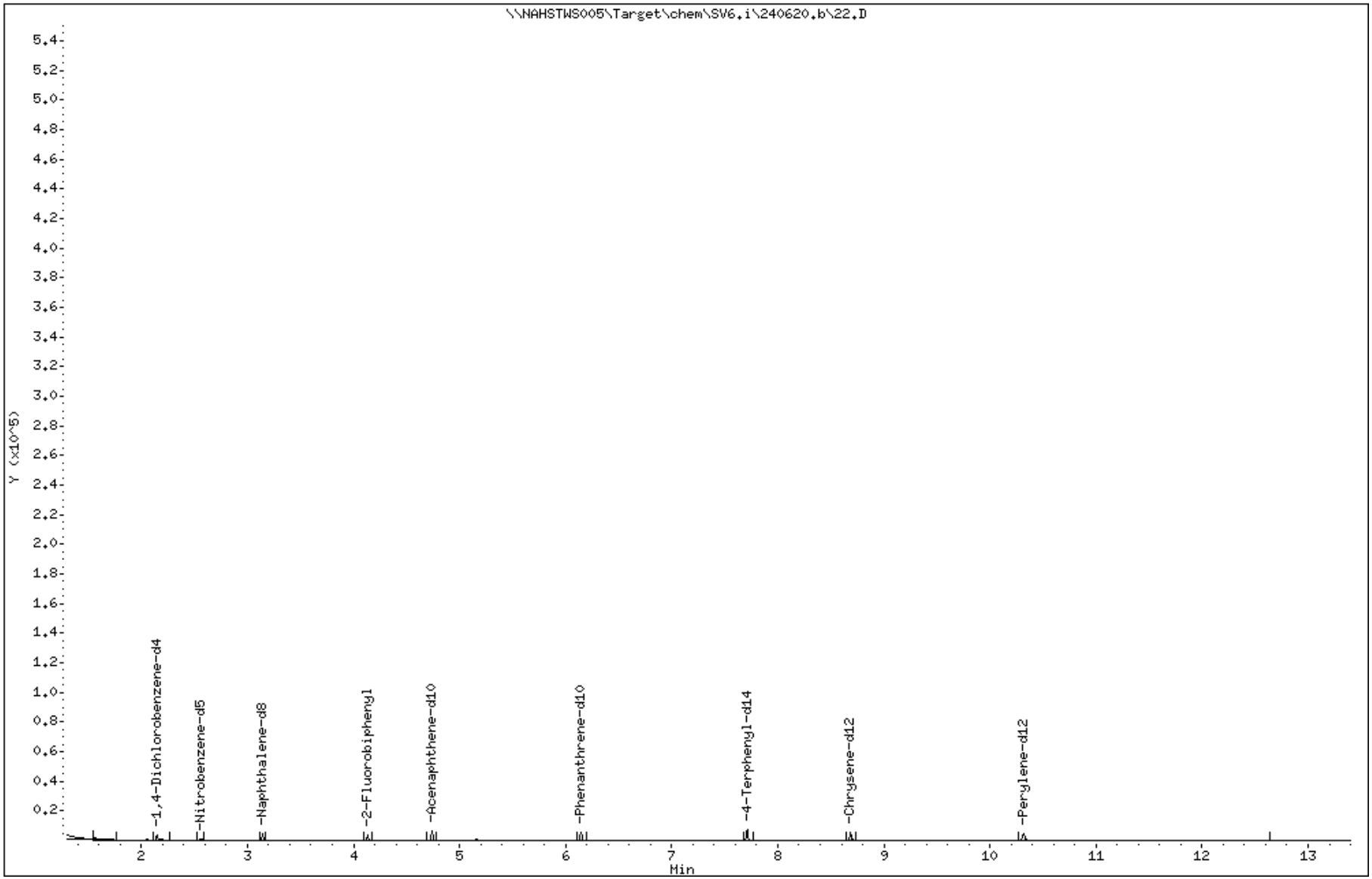
Sample Info: HS24060434-06

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File : \\NAHSTWS005\Target\chem\SV6.i\240620.b\22.D
Inj Date : 20-JUN-2024 17:24
InstruID : SV6.i
LabSampID : HS24060434-06

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\SV6.i\240620.b\23.D Page 1
Report Date: 18-Jul-2024 09:19

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240620.b\23.D
Lab Smp Id: HS24060434-07
Inj Date : 20-JUN-2024 17:41
Operator : LG Inst ID: SV6.i
Smp Info : HS24060434-07
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240620.b\DXSIM.m
Meth Date : 18-Jul-2024 09:19 rucha.pate Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.151	2.151	(1.000)	2132	0.10000	(aQ)
* 45 Naphthalene-d8	136	3.141	3.141	(1.000)	4093	0.10000	
$ 33 Nitrobenzene-d5	82	2.558	2.559	(0.815)	874	0.07113	0.07113(M)
* 86 Acenaphthene-d10	164	4.742	4.737	(1.000)	2273	0.10000	
$ 69 2-Fluorobiphenyl	172	4.133	4.130	(0.872)	2434	0.07005	0.07005(M)
* 126 Phenanthrene-d10	188	6.147	6.142	(1.000)	4335	0.10000	
* 182 Chrysene-d12	240	8.686	8.680	(1.000)	4064	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.712	7.707	(0.888)	6500	0.07851	0.07851(M)
* 198 Perylene-d12	264	10.315	10.305	(1.000)	4314	0.10000	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240620.b\23.D

Date : 20-JUN-2024 17:41

Client ID:

Instrument: SV6.i

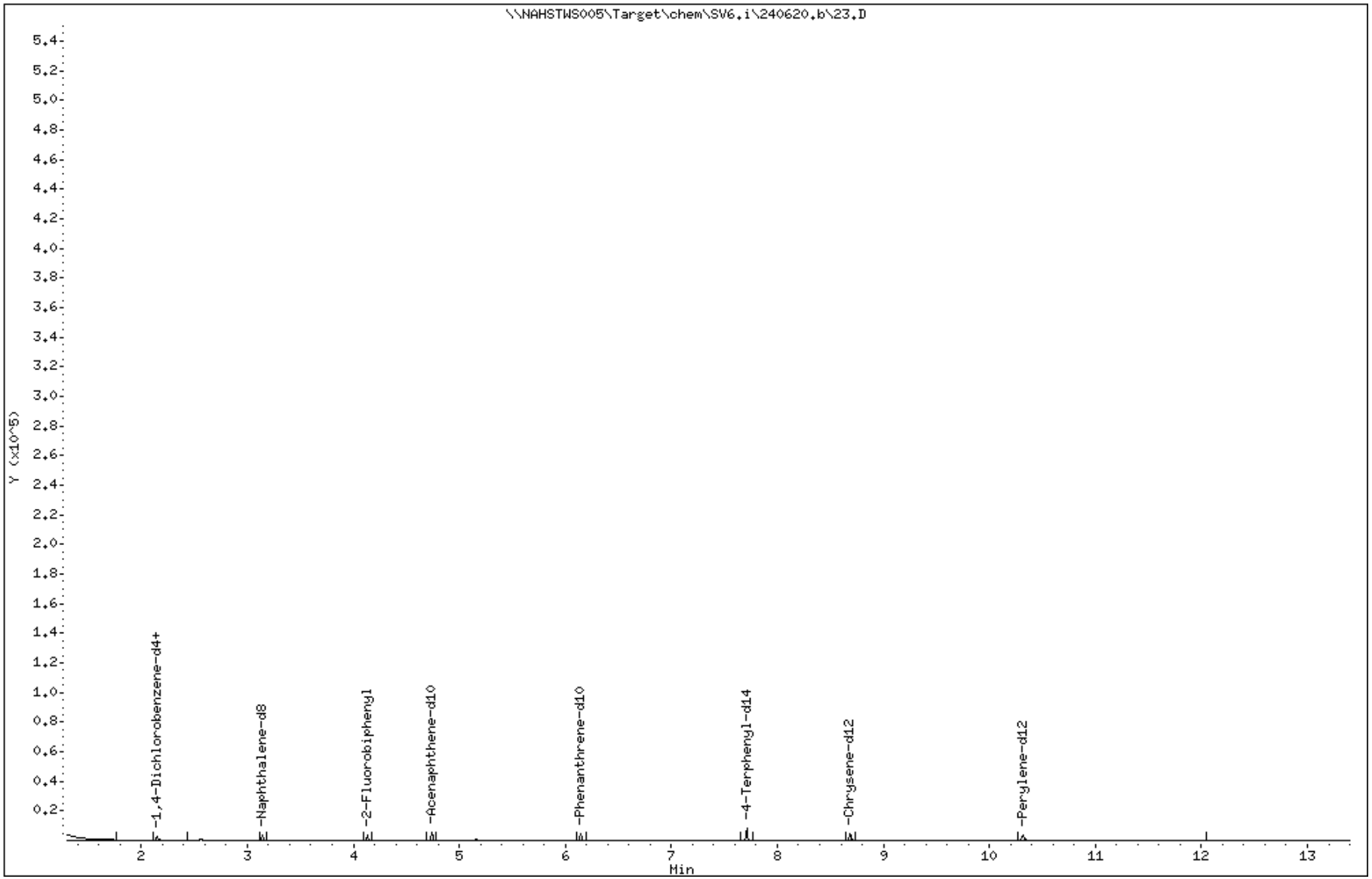
Sample Info: HS24060434-07

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



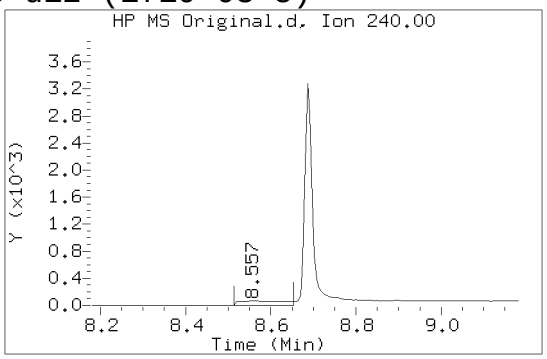
Data File : \\NAHSTWS005\Target\chem\SV6.i\240620.b\23.D
Inj Date : 20-JUN-2024 17:41
InstruID : SV6.i
LabSampID : HS24060434-07

Chrysene-d12 (1719-03-5)

Reason Code:

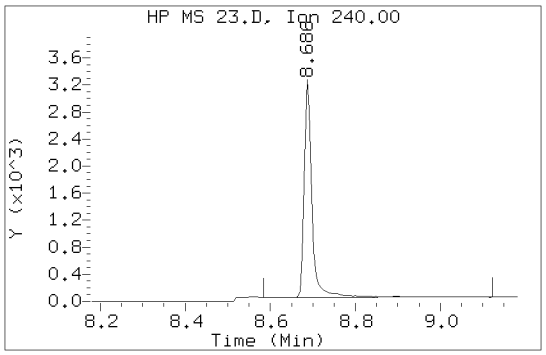
BEFORE

MASS
240
AREA
504
HEIGHT
67
20-Jun-2024
17:58
ALSHS
Server



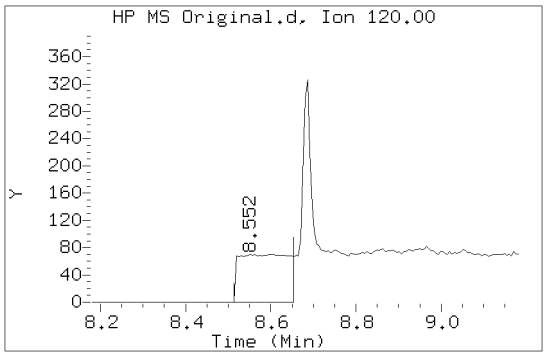
AFTER

MASS
240
AREA
4064
HEIGHT
3216
18-Jul-2024
09:19
ALSHS
Serve



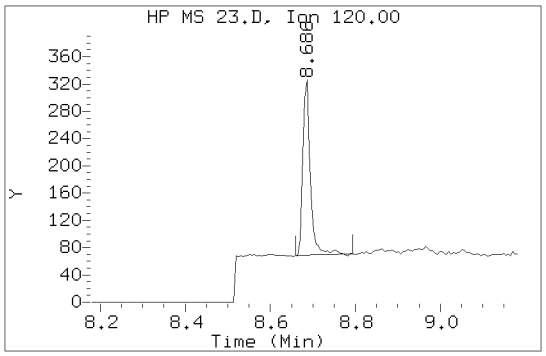
BEFORE

MASS
120
AREA
576
HEIGHT
70
20-Jun-2024
17:58
ALSHS
Server



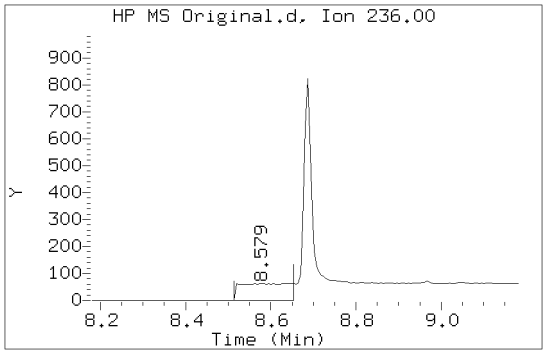
AFTER

MASS
120
AREA
306
HEIGHT
256
18-Jul-2024
09:19
ALSHS
Serve



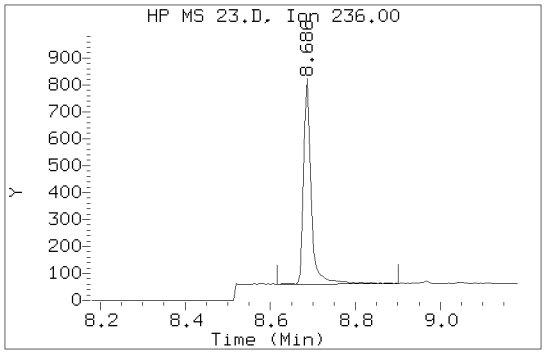
BEFORE

MASS
236
AREA
508
HEIGHT
63
20-Jun-2024
17:58
ALSHS
Server



AFTER

MASS
236
AREA
936
HEIGHT
762
18-Jul-2024
09:19
ALSHS
Serve

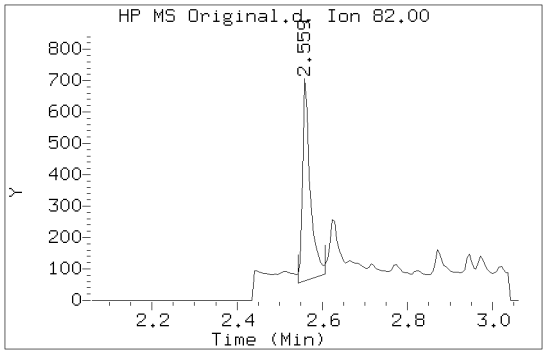


Nitrobenzene-d5 (4165-60-0)

Reason Code:

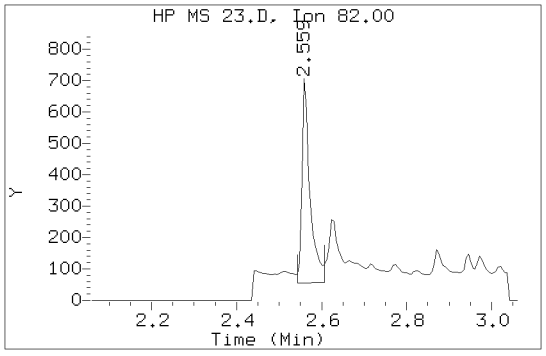
BEFORE

MASS
82
AREA
818
HEIGHT
643
20-Jun-2024
17:58
ALSHS
Server



AFTER

MASS
82
AREA
874
HEIGHT
650
18-Jul-2024
09:19
ALSHS
Serve



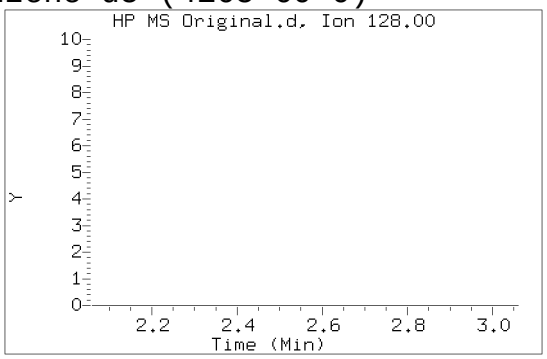
Data File : \\NAHSTWS005\Target\chem\SV6.i\240620.b\23.D
Inj Date : 20-JUN-2024 17:41
InstruID : SV6.i
LabSampID : HS24060434-07

Nitrobenzene-d5 (4165-60-0)

Reason Code:

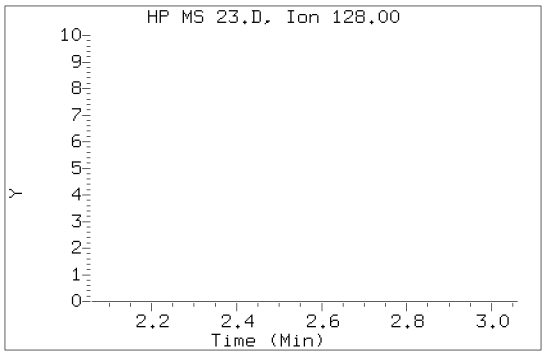
BEFORE

MASS
128
AREA
0
HEIGHT
0
20-Jun-2024
17:58
ALSHS
Server



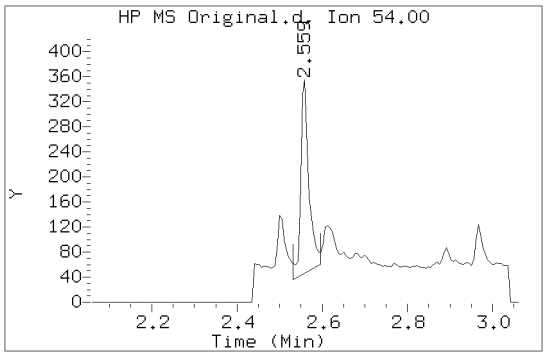
AFTER

MASS
128
AREA
0
HEIGHT
0
18-Jul-2024
09:19
ALSHS
Serve



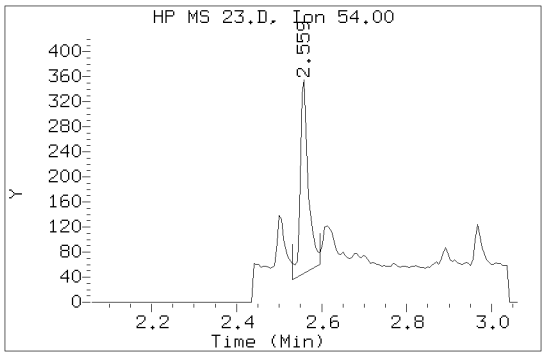
BEFORE

MASS
54
AREA
418
HEIGHT
308
20-Jun-2024
17:58
ALSHS
Server



AFTER

MASS
54
AREA
418
HEIGHT
308
18-Jul-2024
09:19
ALSHS
Serve

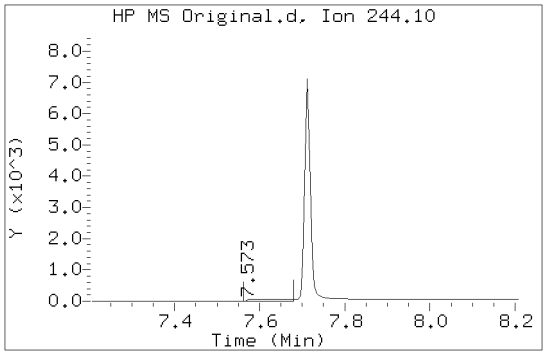


4-Terphenyl-d14 (1718-51-0)

Reason Code:

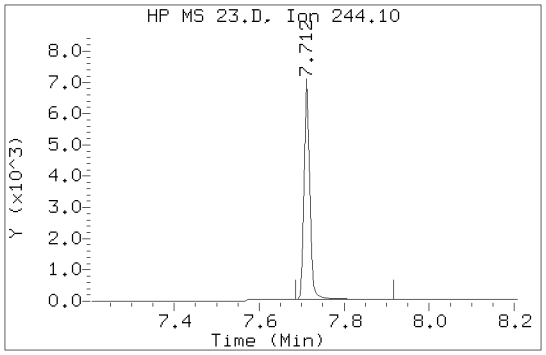
BEFORE

MASS
244.1
AREA
383
HEIGHT
60
20-Jun-2024
17:58
ALSHS
Server



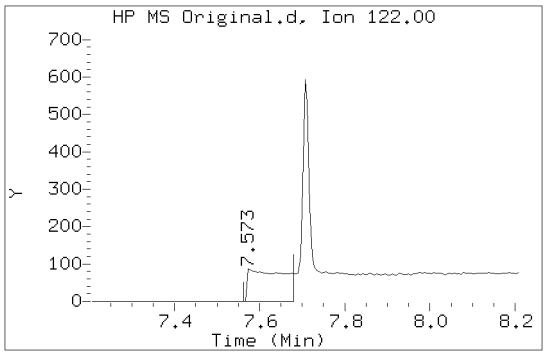
AFTER

MASS
244.1
AREA
6500
HEIGHT
7054
18-Jul-2024
09:19
ALSHS
Serve



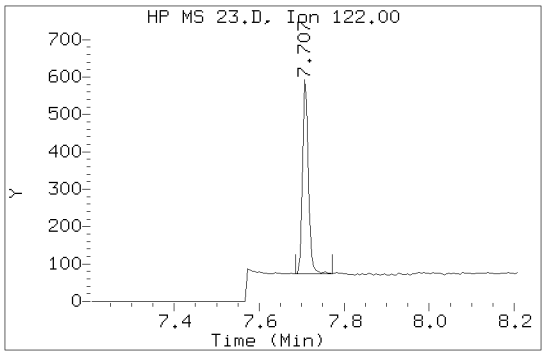
BEFORE

MASS
122
AREA
520
HEIGHT
88
20-Jun-2024
17:58
ALSHS
Server



AFTER

MASS
122
AREA
497
HEIGHT
519
18-Jul-2024
09:19
ALSHS
Serve



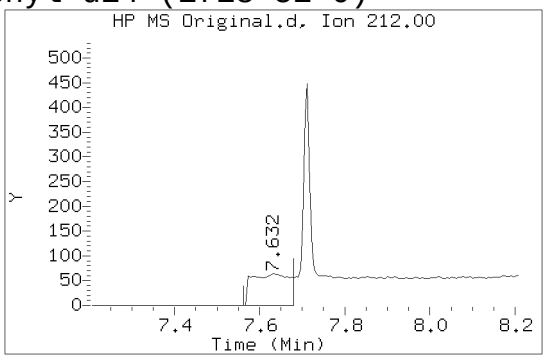
Data File : \\NAHSTWS005\Target\chem\SV6.i\240620.b\23.D
Inj Date : 20-JUN-2024 17:41
InstruID : SV6.i
LabSampID : HS24060434-07

4-Terphenyl-d14 (1718-51-0)

Reason Code:

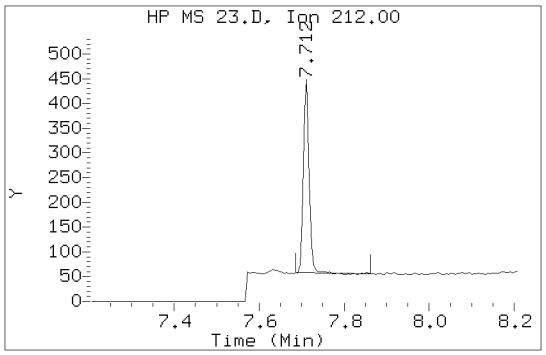
BEFORE

MASS
212
AREA
396
HEIGHT
65
20-Jun-2024
17:58
ALSHS
Server



AFTER

MASS
212
AREA
358
HEIGHT
390
18-Jul-2024
09:19
ALSHS
Serve

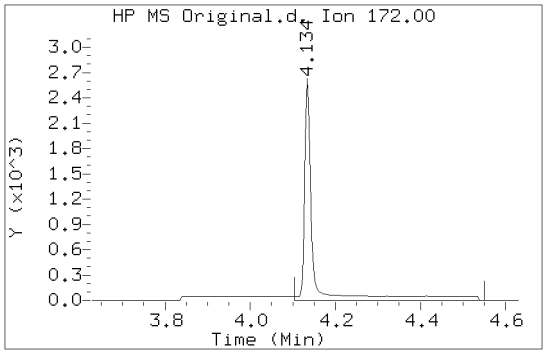


2-Fluorobiphenyl (321-60-8)

Reason Code:

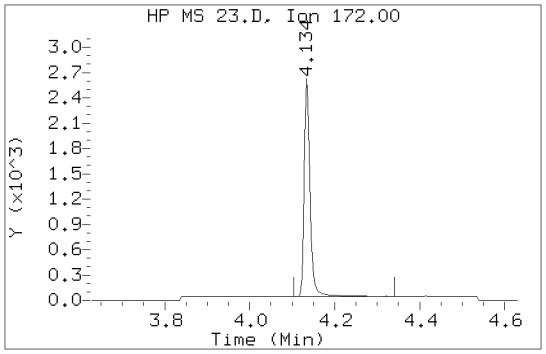
BEFORE

MASS
172
AREA
3700
HEIGHT
2627
20-Jun-2024
17:58
ALSHS
Server



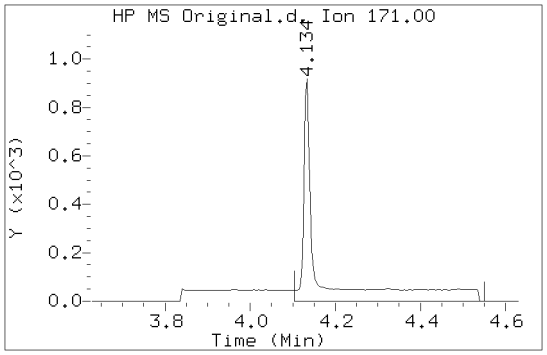
AFTER

MASS
172
AREA
2434
HEIGHT
2580
18-Jul-2024
09:19
ALSHS
Serve



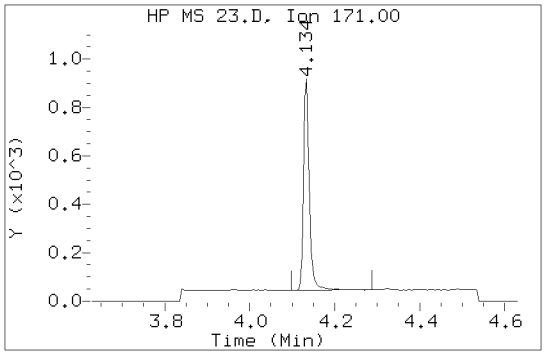
BEFORE

MASS
171
AREA
2063
HEIGHT
918
20-Jun-2024
17:58
ALSHS
Server



AFTER

MASS
171
AREA
813
HEIGHT
871
18-Jul-2024
09:19
ALSHS
Serve



Data File: \\NAHSTWS005\Target\chem\SV6.i\240620.b\24.D Page 1
Report Date: 21-Jun-2024 10:29

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240620.b\24.D
Lab Smp Id: HS24060434-08
Inj Date : 20-JUN-2024 17:59
Operator : LG Inst ID: SV6.i
Smp Info : HS24060434-08
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240620.b\DXSIM.m
Meth Date : 20-Jun-2024 11:53 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTWS005

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.150	2.151	(1.000)	2086	0.10000	(aQ)
* 45 Naphthalene-d8	136	3.145	3.141	(1.000)	4035	0.10000	
$ 33 Nitrobenzene-d5	82	2.558	2.559	(0.814)	653	0.05391	0.05391(M)
* 86 Acenaphthene-d10	164	4.742	4.737	(1.000)	2227	0.10000	
$ 69 2-Fluorobiphenyl	172	4.133	4.130	(0.872)	2436	0.07156	0.07156(M)
* 126 Phenanthrene-d10	188	6.147	6.142	(1.000)	4274	0.10000	(M)
* 182 Chrysene-d12	240	8.686	8.680	(1.000)	3896	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.712	7.707	(0.888)	5330	0.06716	0.06716(M)
* 198 Perylene-d12	264	10.315	10.305	(1.000)	4165	0.10000	
1 1,4-Dioxane	58	0.860	0.886	(0.400)	2030	0.45433	0.4543(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240620.b\24.D

Date : 20-JUN-2024 17:59

Client ID:

Instrument: SV6.i

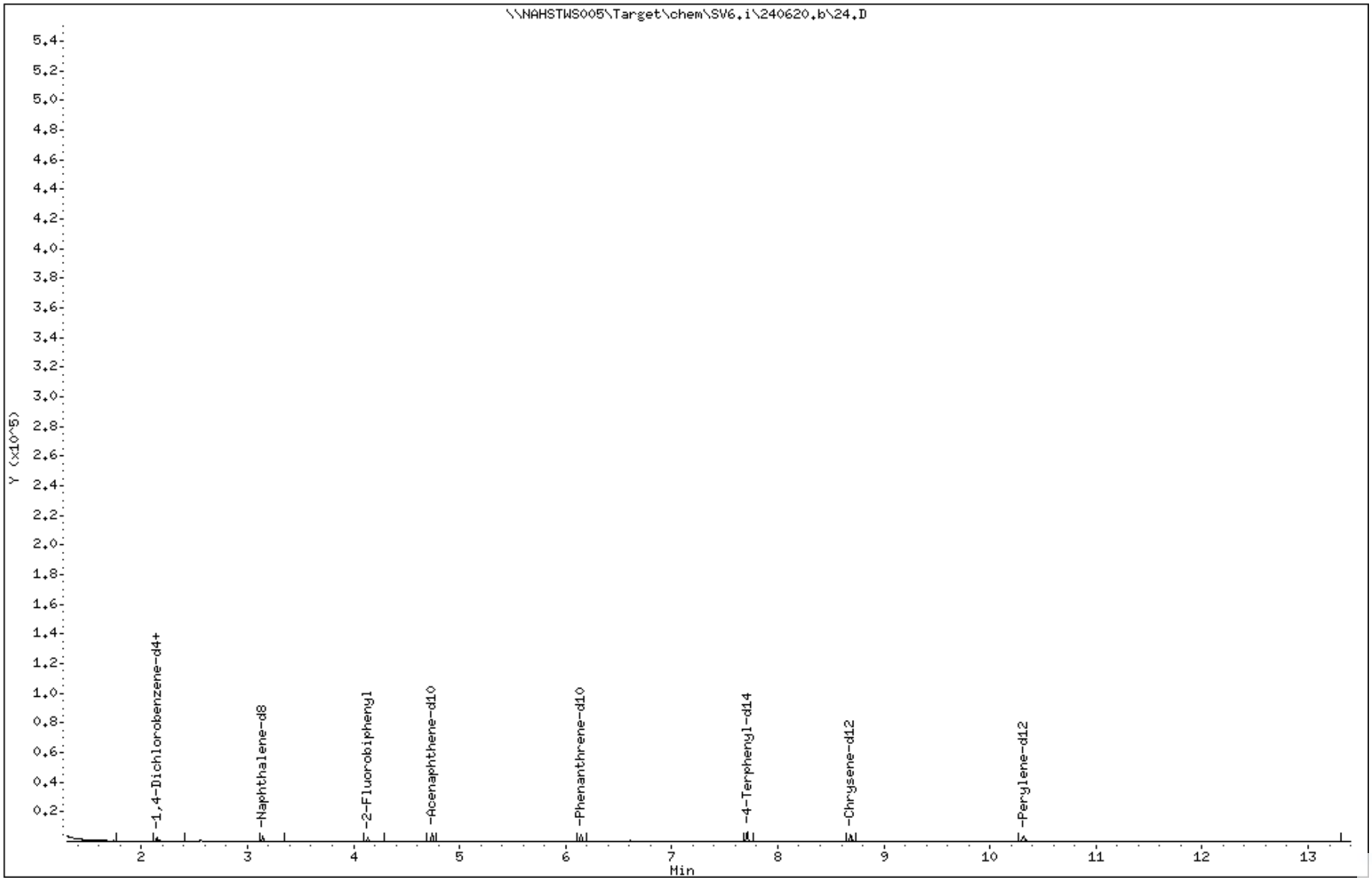
Sample Info: HS24060434-08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240620.b\24.D Page 2

Date : 20-JUN-2024 17:59

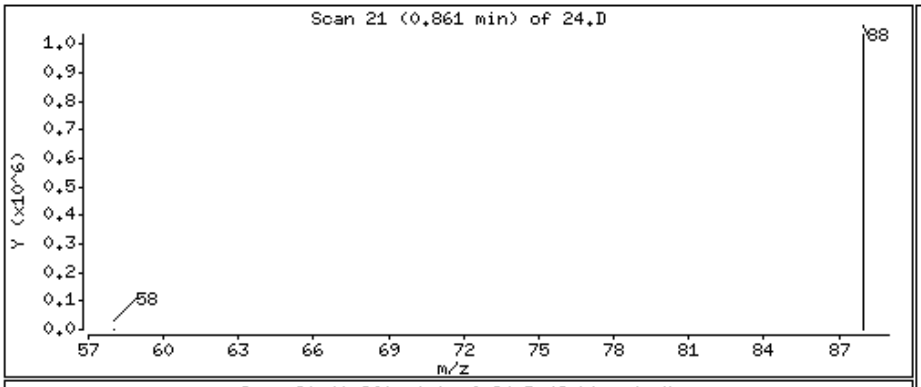
Client ID: Instrument: SV6.i

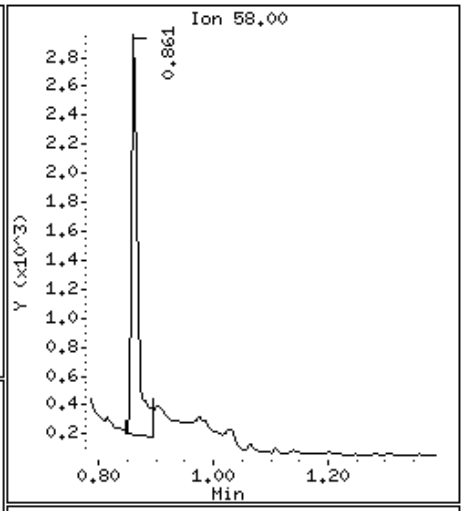
Sample Info: HS24060434-08

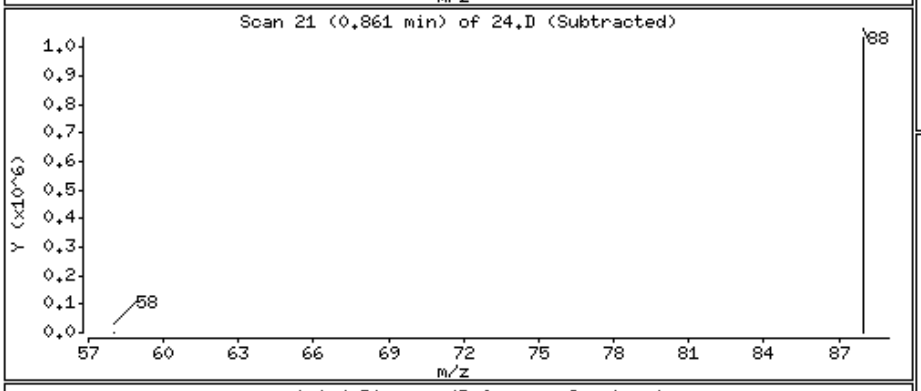
Purge Volume: 1000.0 Operator: LG

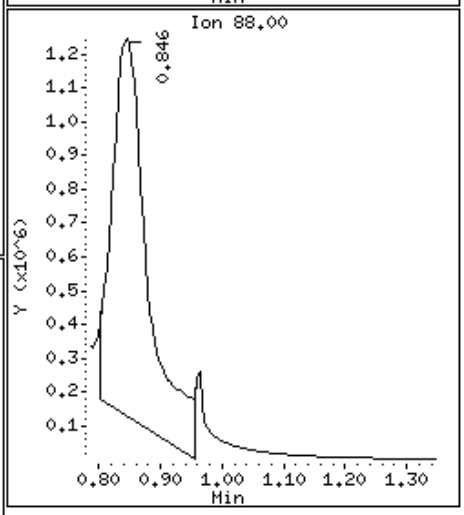
Column phase: RTX-5SIL MS Column diameter: 0.28

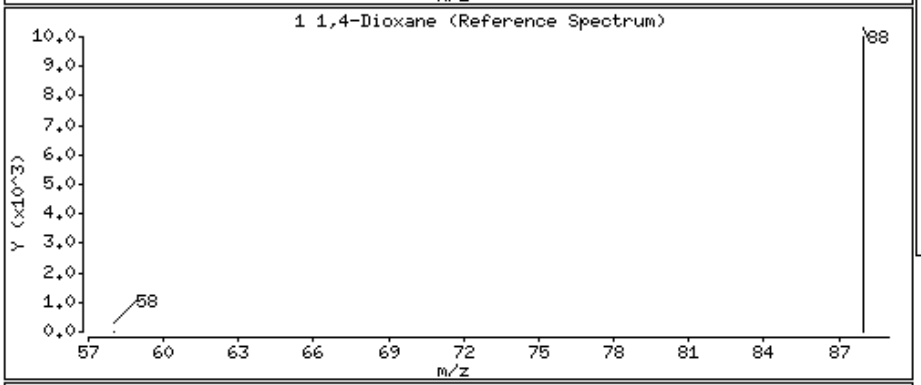
1 1,4-Dioxane Concentration: 0.4543 ug/L

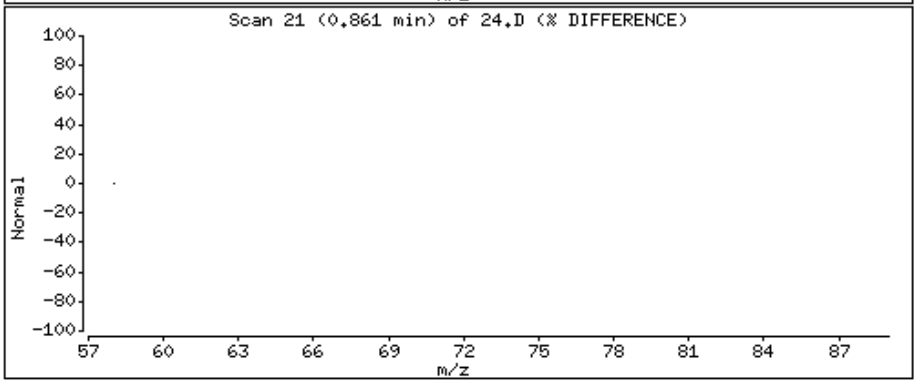












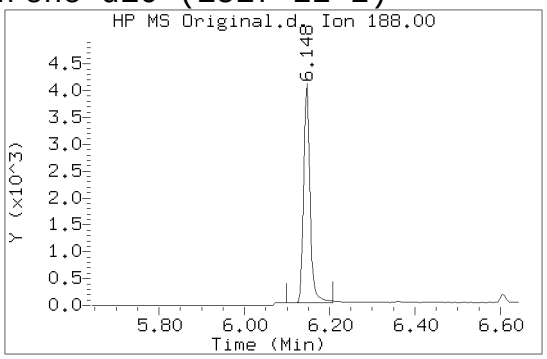
Data File : \\NAHSTWS005\Target\chem\SV6.i\240620.b\24.D
Inj Date : 20-JUN-2024 17:59
InstruID : SV6.i
LabSampID : HS24060434-08

Phenanthrene-d10 (1517-22-2)

Reason Code:

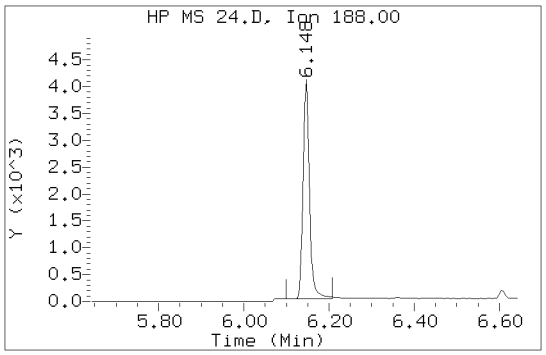
BEFORE

MASS
188
AREA
4274
HEIGHT
4079
20-Jun-2024
18:14
ALSHS
Server



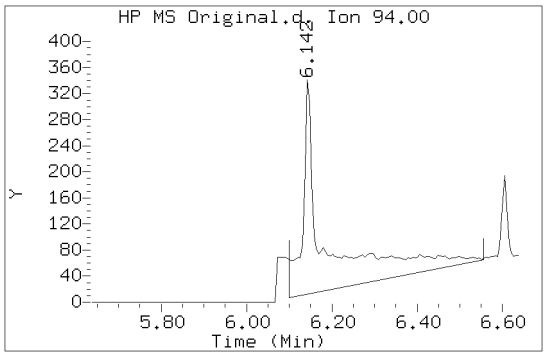
AFTER

MASS
188
AREA
4274
HEIGHT
4079
21-Jun-2024
10:29



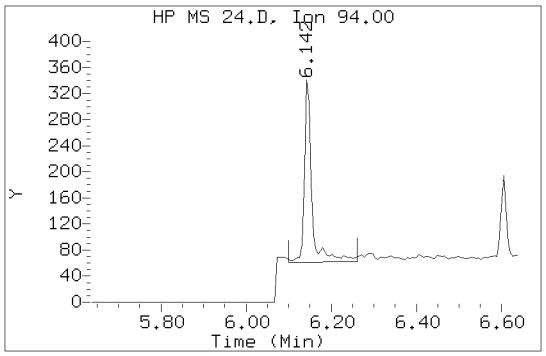
BEFORE

MASS
94
AREA
1190
HEIGHT
328
20-Jun-2024
18:14
ALSHS
Server



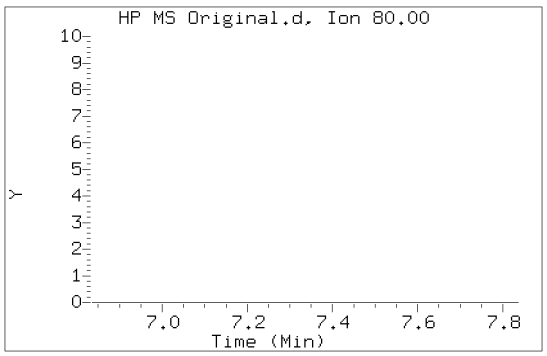
AFTER

MASS
94
AREA
350
HEIGHT
279
21-Jun-2024
10:29



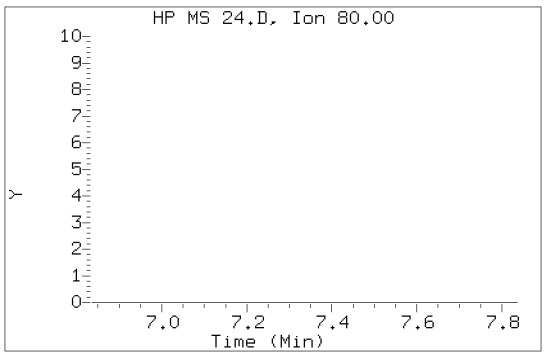
BEFORE

MASS
80
AREA
0
HEIGHT
0
20-Jun-2024
18:14
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
21-Jun-2024
10:29

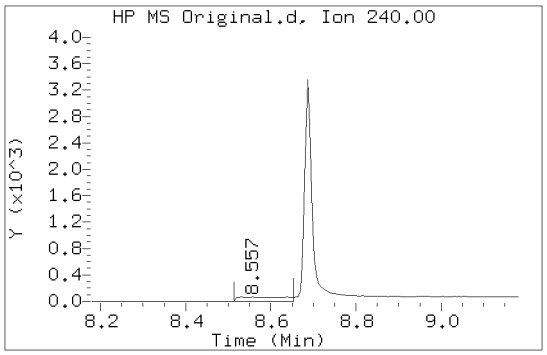


Chrysene-d12 (1719-03-5)

Reason Code:

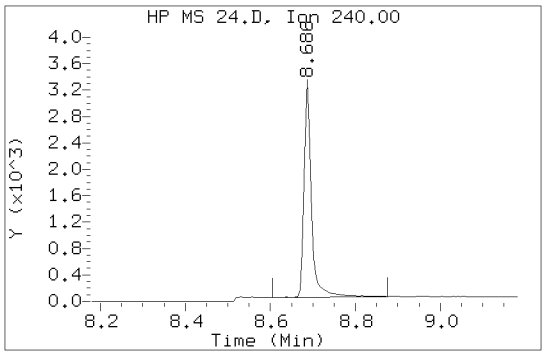
BEFORE

MASS
240
AREA
521
HEIGHT
66
20-Jun-2024
18:14
ALSHS
Server



AFTER

MASS
240
AREA
3896
HEIGHT
3292
21-Jun-2024
10:29

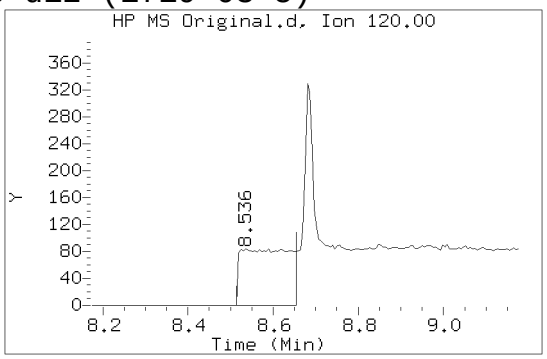


Data File : \\NAHSTWS005\Target\chem\SV6.i\240620.b\24.D
Inj Date : 20-JUN-2024 17:59
InstruID : SV6.i
LabSampID : HS24060434-08

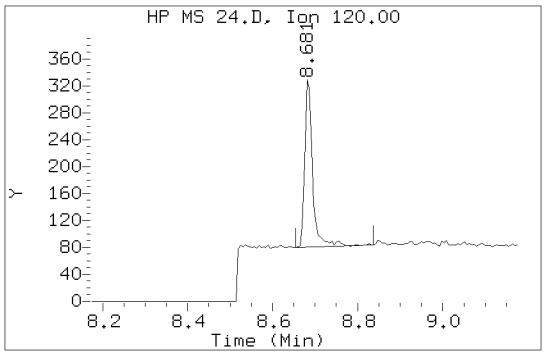
Chrysene-d12 (1719-03-5)

Reason Code:

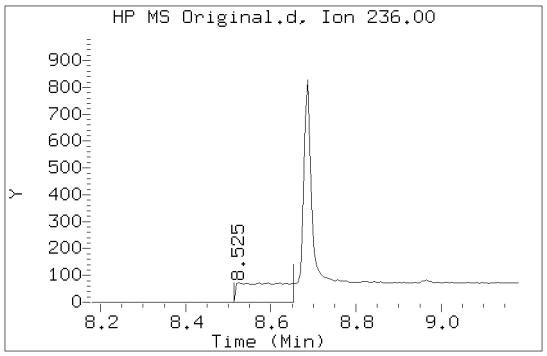
BEFORE
MASS
120
AREA
679
HEIGHT
84
20-Jun-2024
18:14
ALSHS
Server



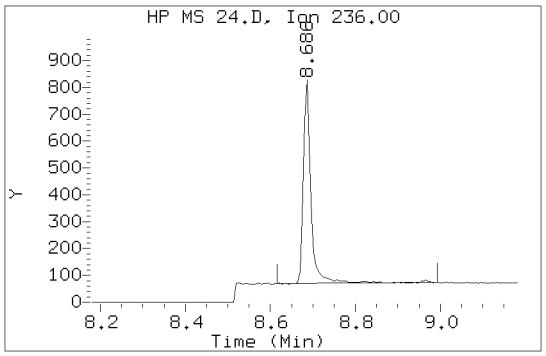
AFTER
MASS
120
AREA
315
HEIGHT
248
21-Jun-2024
10:29



BEFORE
MASS
236
AREA
581
HEIGHT
71
20-Jun-2024
18:14
ALSHS
Server



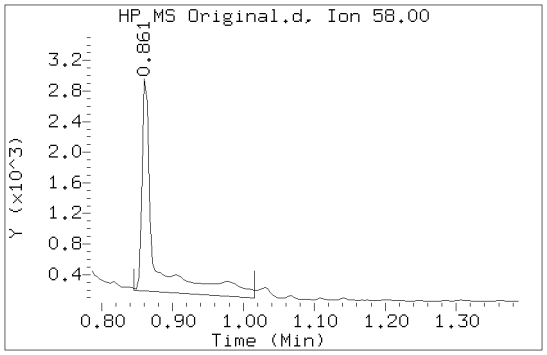
AFTER
MASS
236
AREA
919
HEIGHT
757
21-Jun-2024
10:29



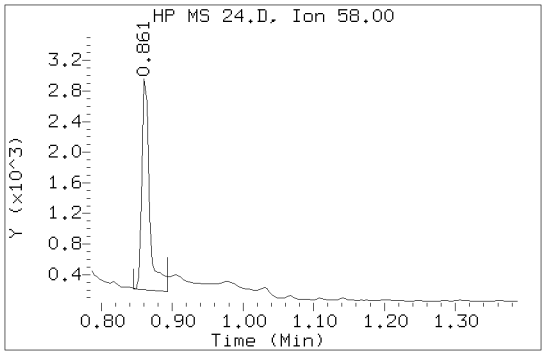
1,4-Dioxane ()

Reason Code:

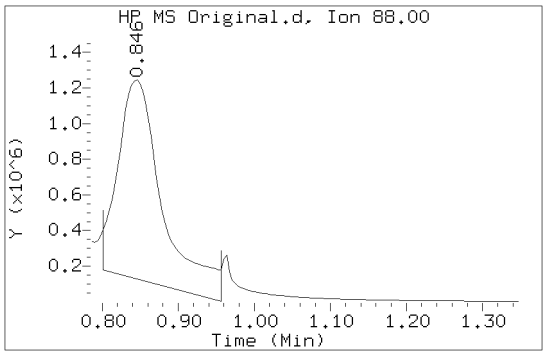
BEFORE
MASS
58
AREA
3230
HEIGHT
2769
20-Jun-2024
18:14
ALSHS
Server



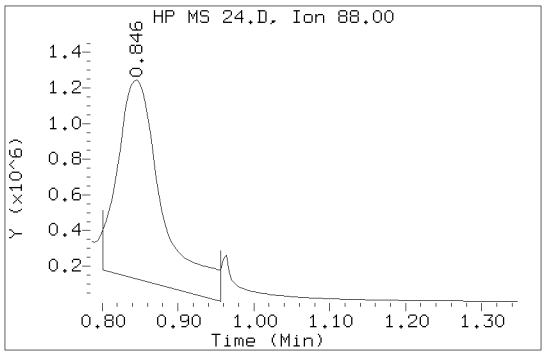
AFTER
MASS
58
AREA
2030
HEIGHT
2756
21-Jun-2024
10:29



BEFORE
MASS
88
AREA
4529105
HEIGHT
1117503
20-Jun-2024
18:14
ALSHS
Server



AFTER
MASS
88
AREA
4529105
HEIGHT
1117503
21-Jun-2024
10:29

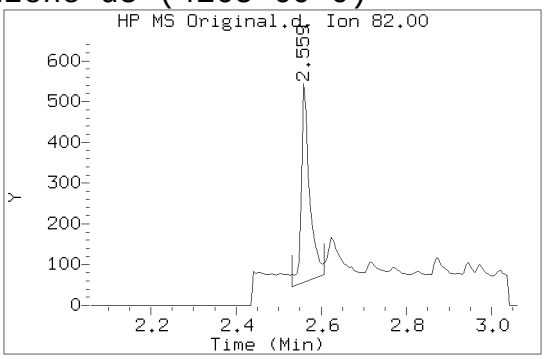


Data File : \\NAHSTWS005\Target\chem\SV6.i\240620.b\24.D
Inj Date : 20-JUN-2024 17:59
InstruID : SV6.i
LabSampID : HS24060434-08

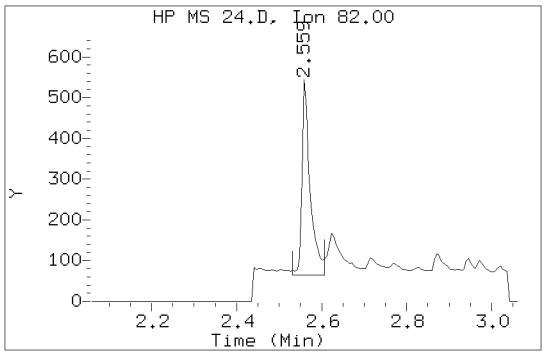
Nitrobenzene-d5 (4165-60-0)

Reason Code:

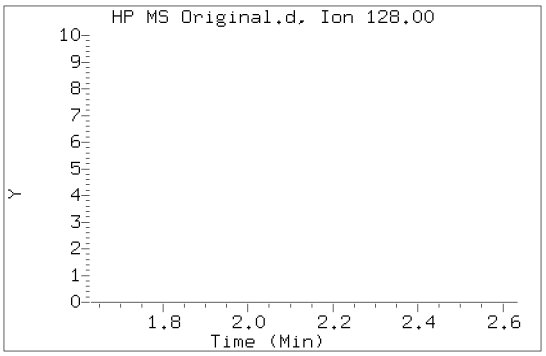
BEFORE
MASS
82
AREA
672
HEIGHT
488
20-Jun-2024
18:14
ALSHS
Server



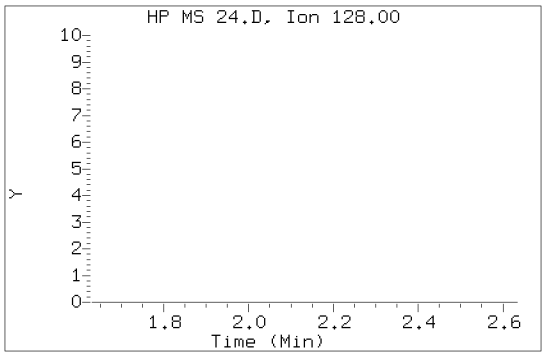
AFTER
MASS
82
AREA
653
HEIGHT
480
21-Jun-2024
10:29



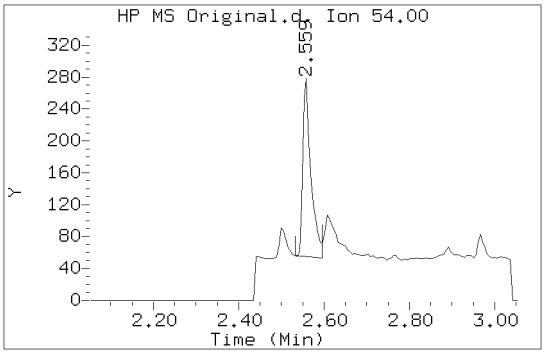
BEFORE
MASS
128
AREA
0
HEIGHT
0
20-Jun-2024
18:14
ALSHS
Server



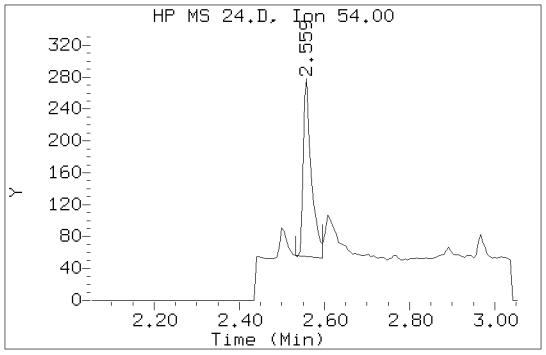
AFTER
MASS
128
AREA
0
HEIGHT
0
21-Jun-2024
10:29



BEFORE
MASS
54
AREA
294
HEIGHT
223
20-Jun-2024
18:14
ALSHS
Server



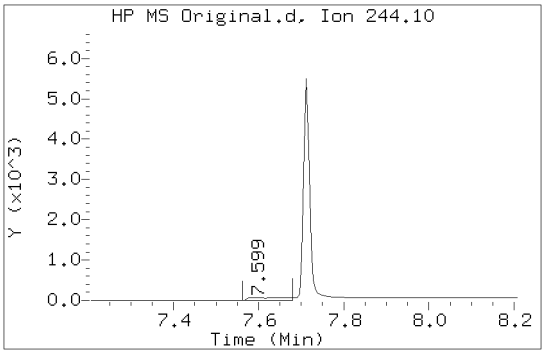
AFTER
MASS
54
AREA
294
HEIGHT
223
21-Jun-2024
10:29



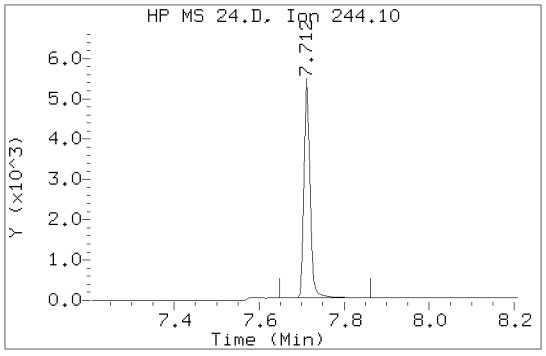
4-Terphenyl-d14 (1718-51-0)

Reason Code:

BEFORE
MASS
244.1
AREA
381
HEIGHT
58
20-Jun-2024
18:14
ALSHS
Server



AFTER
MASS
244.1
AREA
5330
HEIGHT
5440
21-Jun-2024
10:29



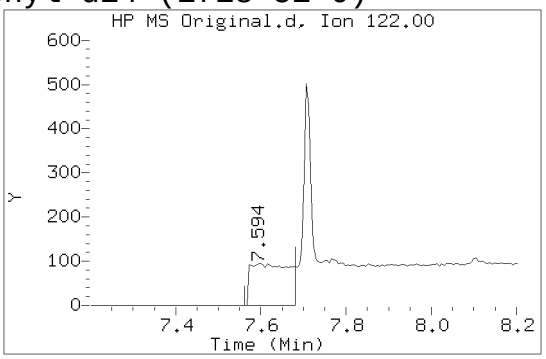
Data File : \\NAHSTWS005\Target\chem\SV6.i\240620.b\24.D
Inj Date : 20-JUN-2024 17:59
InstruID : SV6.i
LabSampID : HS24060434-08

4-Terphenyl-d14 (1718-51-0)

Reason Code:

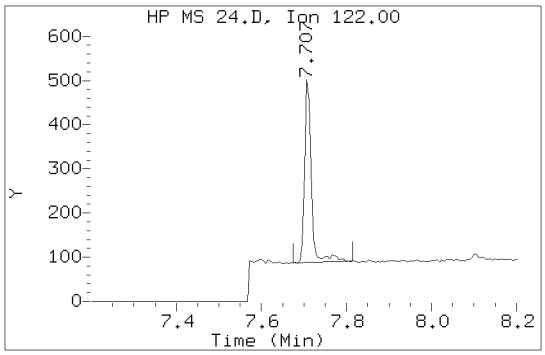
BEFORE

MASS
122
AREA
604
HEIGHT
95
20-Jun-2024
18:14
ALSHS
Server



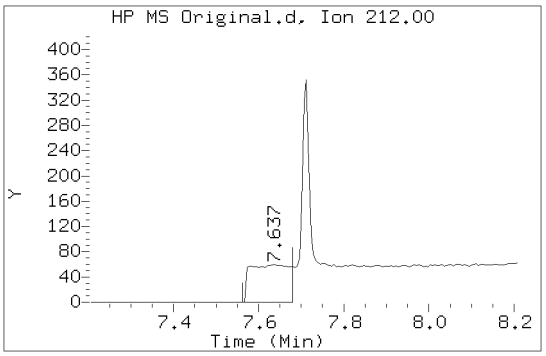
AFTER

MASS
122
AREA
445
HEIGHT
414
21-Jun-2024
10:29



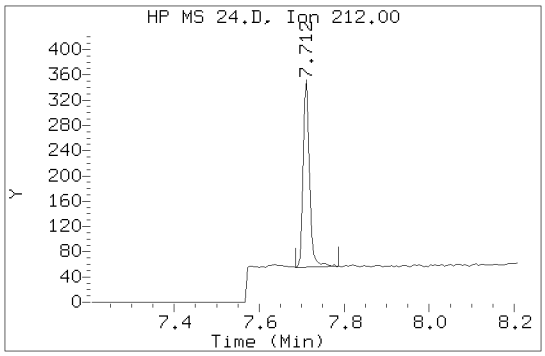
BEFORE

MASS
212
AREA
385
HEIGHT
60
20-Jun-2024
18:14
ALSHS
Server



AFTER

MASS
212
AREA
306
HEIGHT
296
21-Jun-2024
10:29

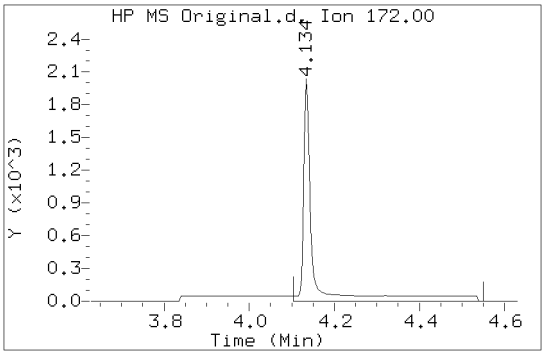


2-Fluorobiphenyl (321-60-8)

Reason Code:

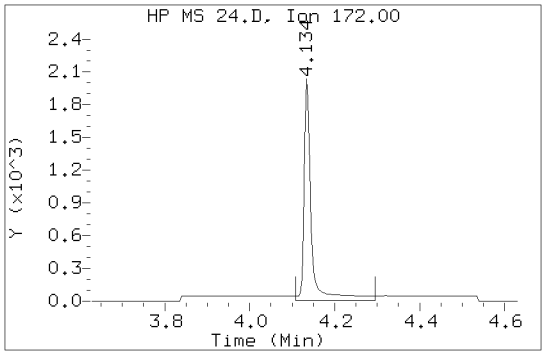
BEFORE

MASS
172
AREA
3226
HEIGHT
2037
20-Jun-2024
18:14
ALSHS
Server



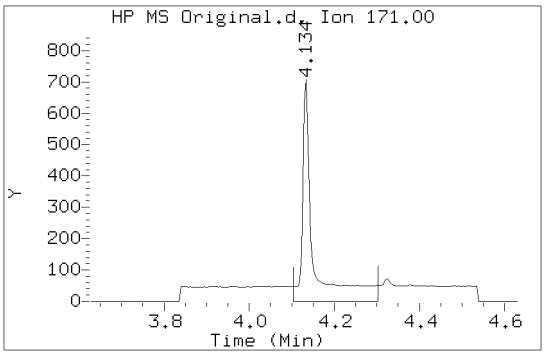
AFTER

MASS
172
AREA
2436
HEIGHT
2031
21-Jun-2024
10:29



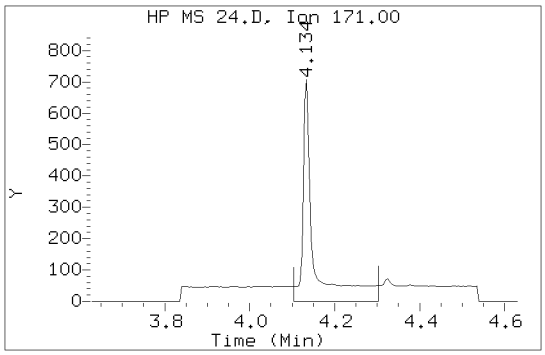
BEFORE

MASS
171
AREA
1249
HEIGHT
707
20-Jun-2024
18:14
ALSHS
Server



AFTER

MASS
171
AREA
1249
HEIGHT
707
21-Jun-2024
10:29



Data File: \\NAHSTWS005\Target\chem\SV6.i\240621.b\28.D Page 1
Report Date: 22-Jun-2024 09:15

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240621.b\28.D
Lab Smp Id: 14DX-0.08 Client Smp ID: 14DX-0.08
Inj Date : 21-JUN-2024 20:10
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240621.b\DXSIM.m
Meth Date : 22-Jun-2024 09:13 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7095

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.113	2.113	(1.000)	1709	0.10000	(aQM)
* 45 Naphthalene-d8	136	3.106	3.106	(1.000)	5716	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.527	2.527	(0.813)	1213	0.08000	0.07069(M)
* 86 Acenaphthene-d10	164	4.703	4.703	(1.000)	3486	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.098	4.098	(0.871)	3976	0.08000	0.07461
* 126 Phenanthrene-d10	188	6.103	6.103	(1.000)	6939	0.10000	(M)
* 182 Chrysene-d12	240	8.641	8.641	(1.000)	6776	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.668	7.668	(0.887)	8875	0.08000	0.06429(M)
* 198 Perylene-d12	264	10.250	10.250	(1.000)	5691	0.10000	(M)
1 1,4-Dioxane	58	0.842	0.842	(0.398)	278	0.08000	0.07594(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240621.b\28.D

Date : 21-JUN-2024 20:10

Client ID: 14DX-0.08

Instrument: SV6.i

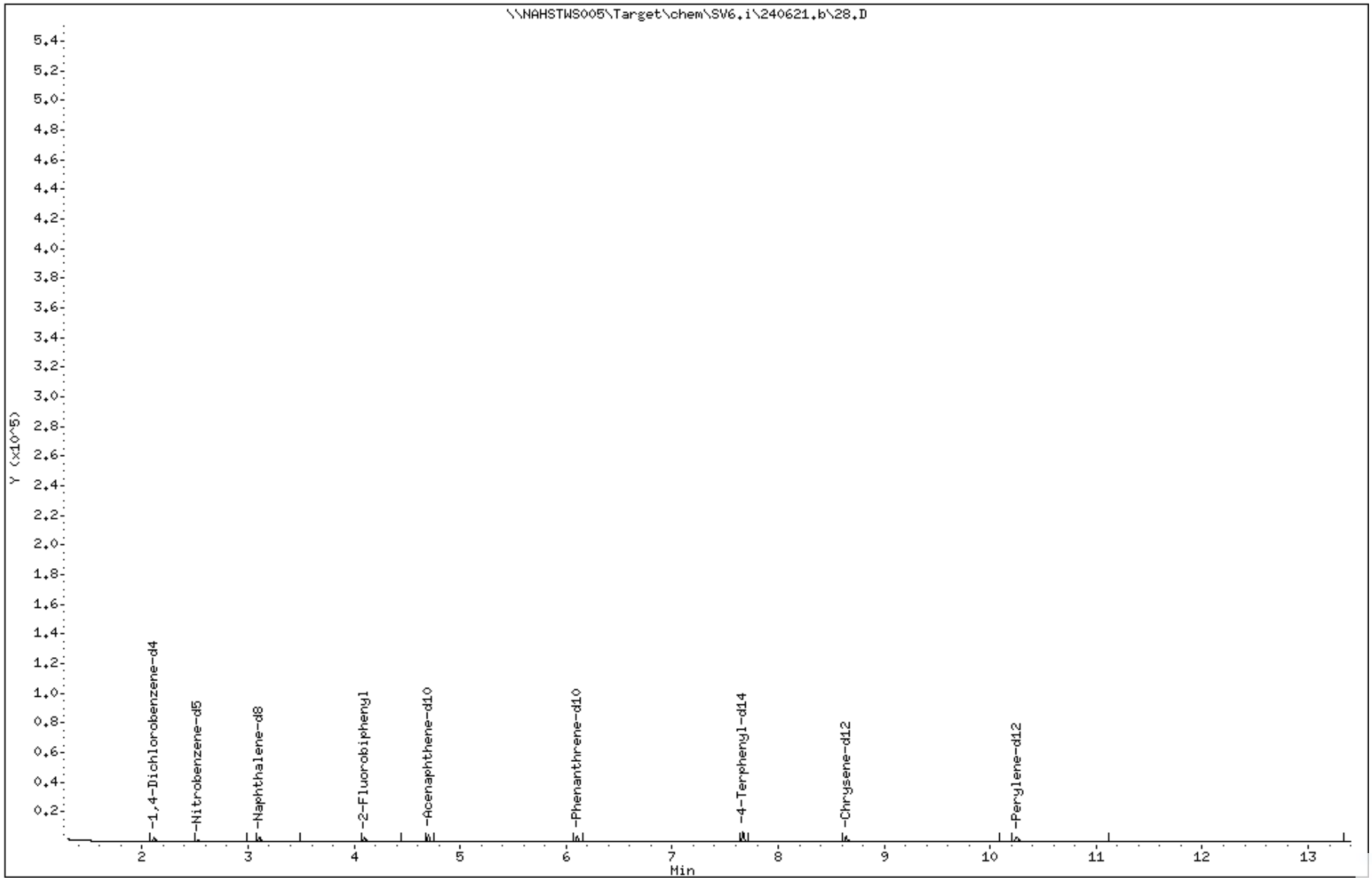
Sample Info: 14DX-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

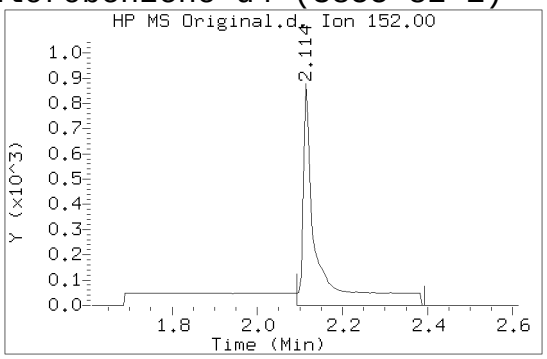


Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\28.D
Inj Date : 21-JUN-2024 20:10
InstruID : SV6.i
LabSampID : 14DX-0.08

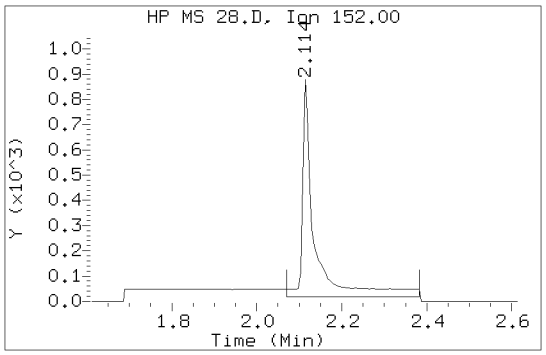
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

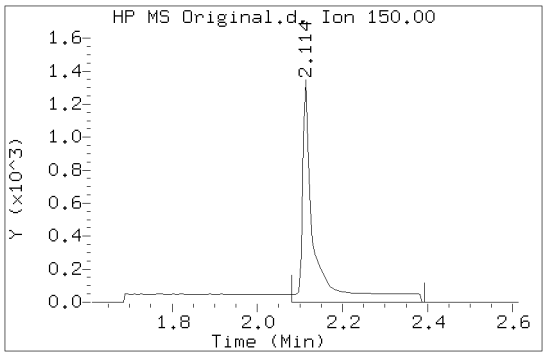
BEFORE
MASS
152
AREA
1990
HEIGHT
878
21-Jun-2024
20:25
ALSHS
Server



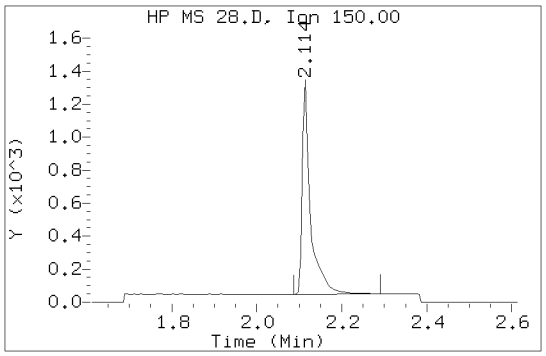
AFTER
MASS
152
AREA
1709
HEIGHT
860
22-Jun-2024
09:15



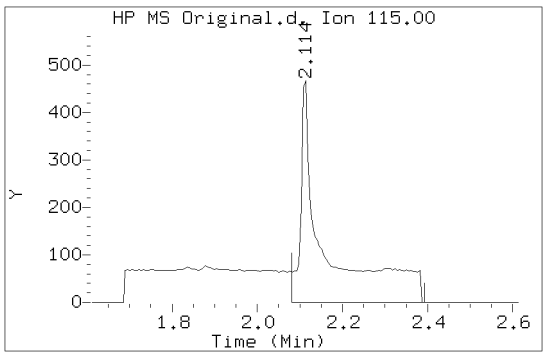
BEFORE
MASS
150
AREA
2677
HEIGHT
1347
21-Jun-2024
20:25
ALSHS
Server



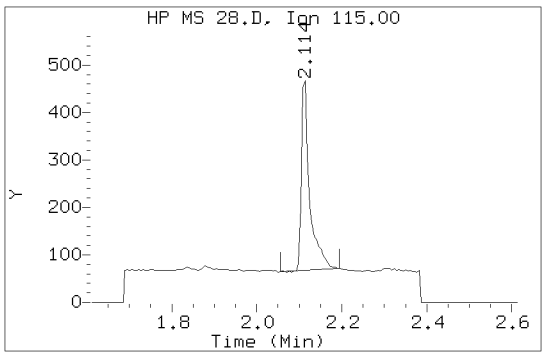
AFTER
MASS
150
AREA
1770
HEIGHT
1298
22-Jun-2024
09:15



BEFORE
MASS
115
AREA
1795
HEIGHT
467
21-Jun-2024
20:25
ALSHS
Server



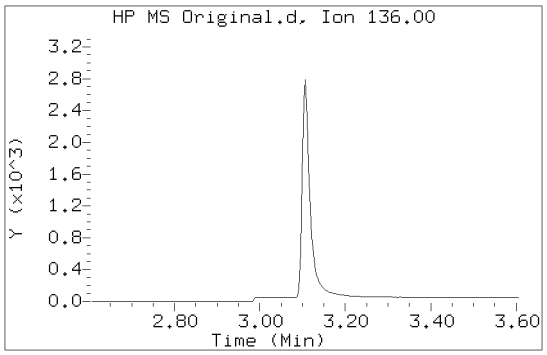
AFTER
MASS
115
AREA
545
HEIGHT
399
22-Jun-2024
09:15



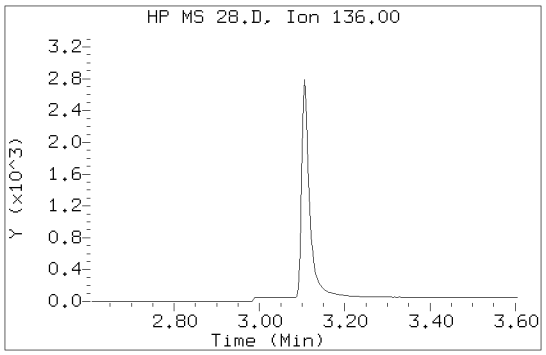
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
0
HEIGHT
0
21-Jun-2024
20:25
ALSHS
Server



AFTER
MASS
136
AREA
5716
HEIGHT
2787
22-Jun-2024
09:15

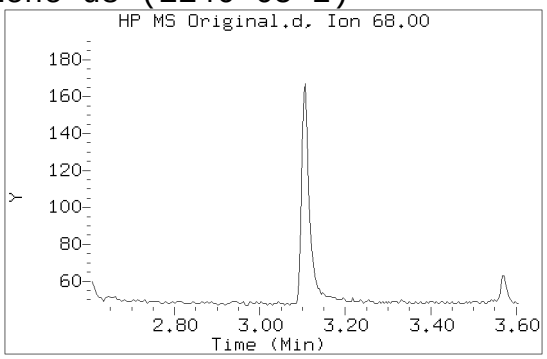


Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\28.D
Inj Date : 21-JUN-2024 20:10
InstruID : SV6.i
LabSampID : 14DX-0.08

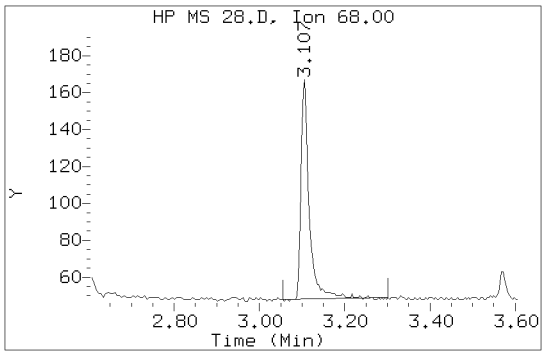
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
68
AREA
0
HEIGHT
0
21-Jun-2024
20:25
ALSHS
Server



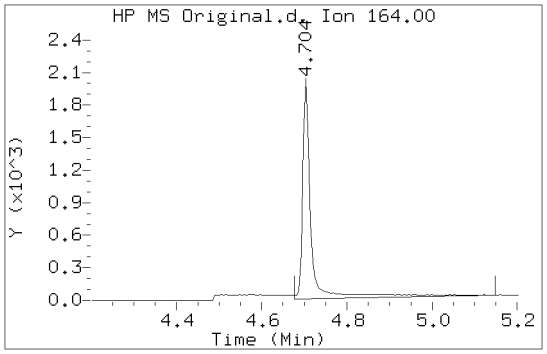
AFTER
MASS
68
AREA
155
HEIGHT
118
22-Jun-2024
09:15



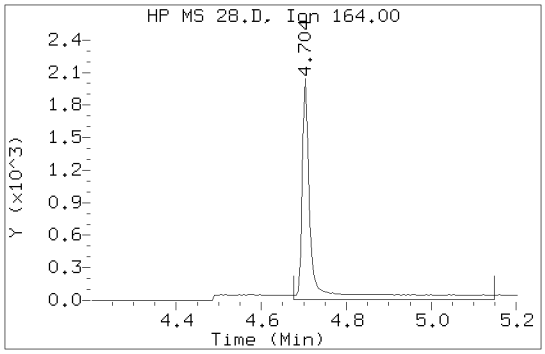
Acenaphthene-d10 (15067-26-2)

Reason Code:

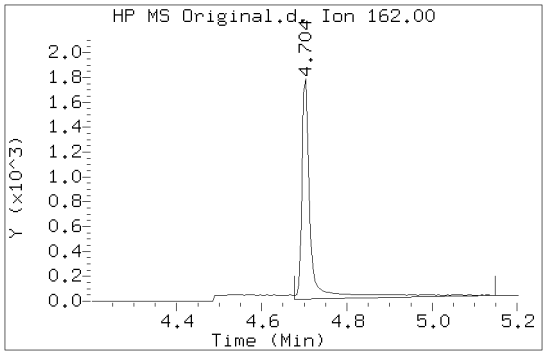
BEFORE
MASS
164
AREA
2713
HEIGHT
2027
21-Jun-2024
20:25
ALSHS
Server



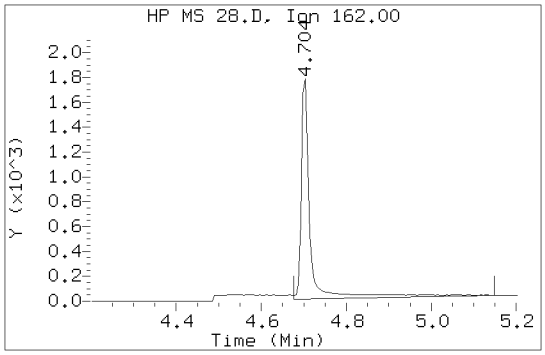
AFTER
MASS
164
AREA
3486
HEIGHT
2039
22-Jun-2024
09:15



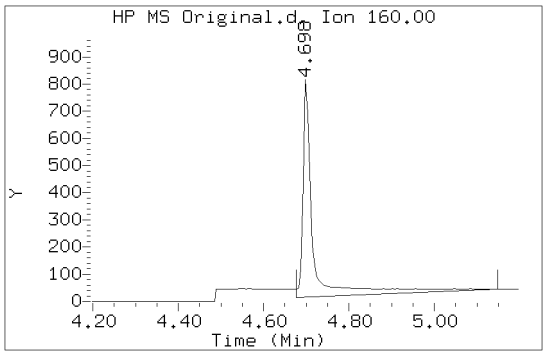
BEFORE
MASS
162
AREA
2546
HEIGHT
1773
21-Jun-2024
20:25
ALSHS
Server



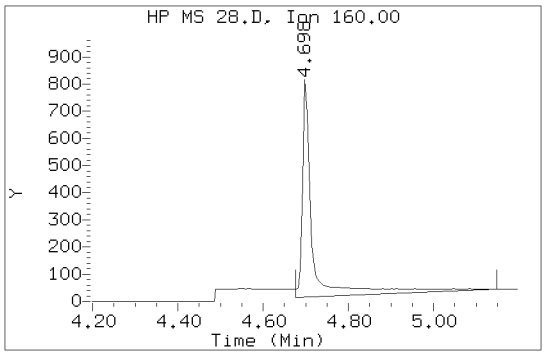
AFTER
MASS
162
AREA
2546
HEIGHT
1773
22-Jun-2024
09:15



BEFORE
MASS
160
AREA
1331
HEIGHT
801
21-Jun-2024
20:25
ALSHS
Server



AFTER
MASS
160
AREA
1331
HEIGHT
801
22-Jun-2024
09:15

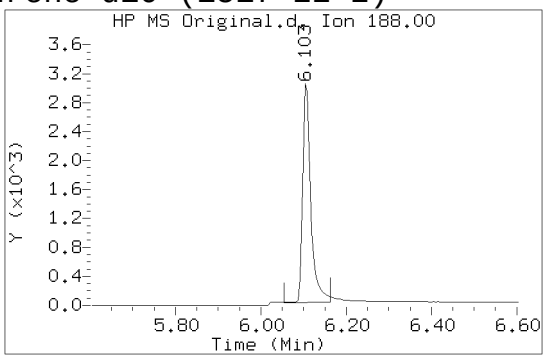


Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\28.D
Inj Date : 21-JUN-2024 20:10
InstruID : SV6.i
LabSampID : 14DX-0.08

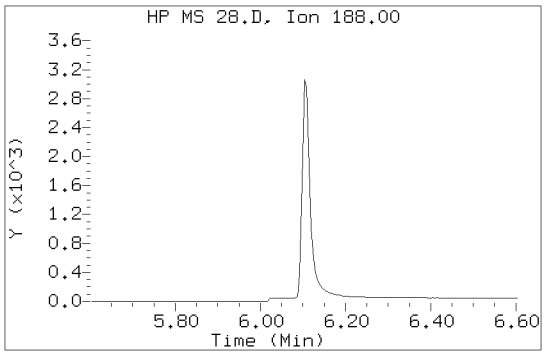
Phenanthrene-d10 (1517-22-2)

Reason Code:

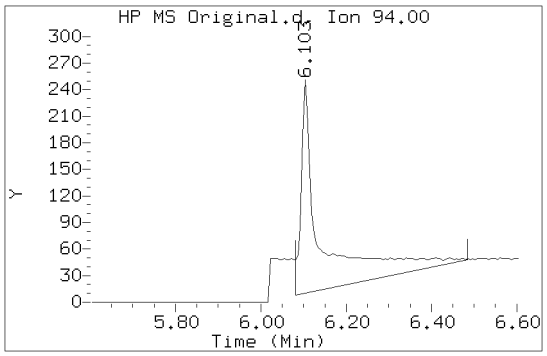
BEFORE
MASS
188
AREA
4004
HEIGHT
3021
21-Jun-2024
20:25
ALSHS
Server



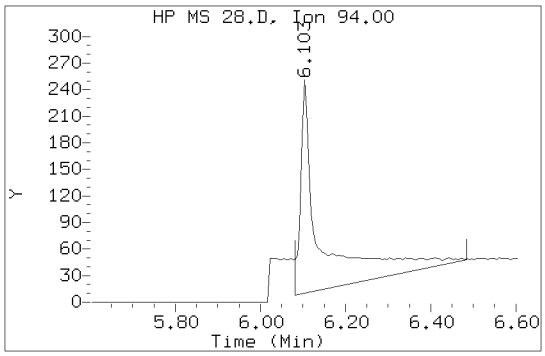
AFTER
MASS
188
AREA
6939
HEIGHT
3062
22-Jun-2024
09:15



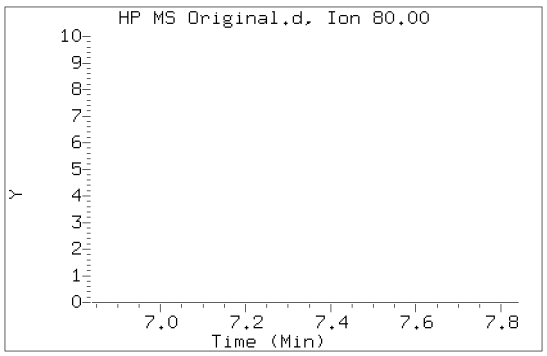
BEFORE
MASS
94
AREA
775
HEIGHT
240
21-Jun-2024
20:25
ALSHS
Server



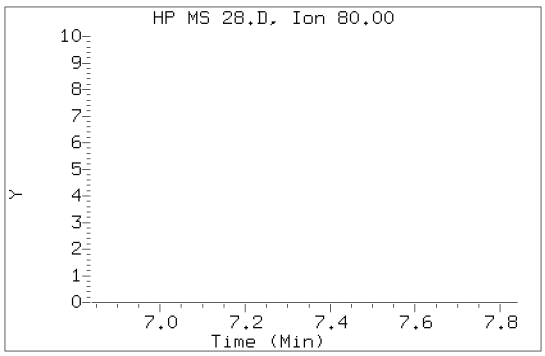
AFTER
MASS
94
AREA
775
HEIGHT
240
22-Jun-2024
09:15



BEFORE
MASS
80
AREA
0
HEIGHT
0
21-Jun-2024
20:25
ALSHS
Server



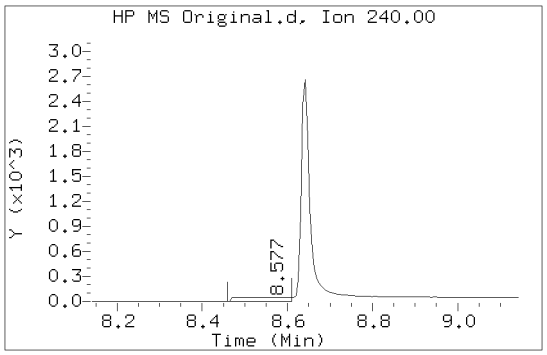
AFTER
MASS
80
AREA
0
HEIGHT
0
22-Jun-2024
09:15



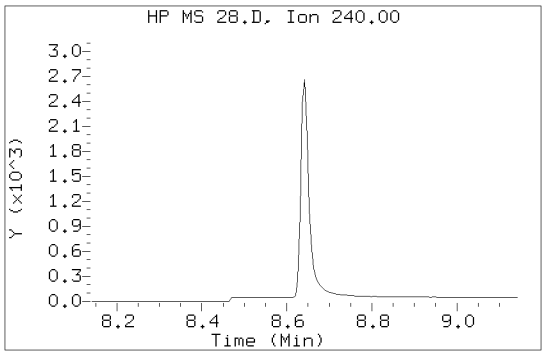
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
405
HEIGHT
49
21-Jun-2024
20:25
ALSHS
Server



AFTER
MASS
240
AREA
6776
HEIGHT
2662
22-Jun-2024
09:15

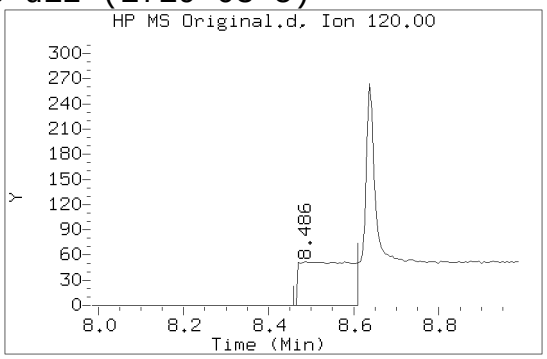


Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\28.D
Inj Date : 21-JUN-2024 20:10
InstruID : SV6.i
LabSampID : 14DX-0.08

Chrysene-d12 (1719-03-5)

BEFORE

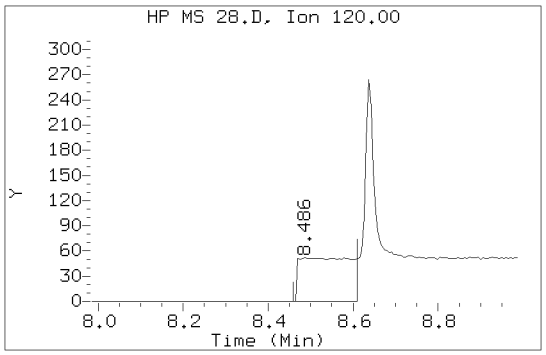
MASS
120
AREA
442
HEIGHT
52
21-Jun-2024
20:25
ALSHS
Server



AFTER

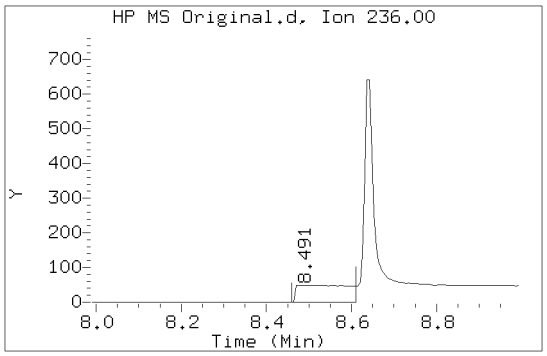
MASS
120
AREA
442
HEIGHT
52
22-Jun-2024
09:15

Reason Code:



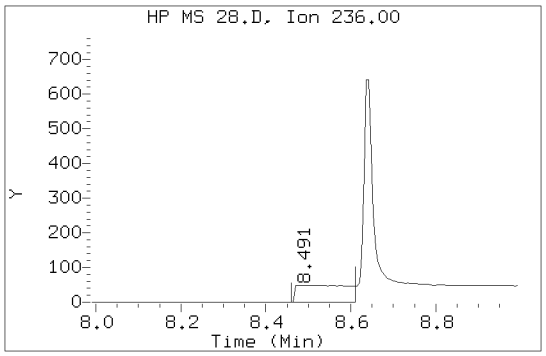
BEFORE

MASS
236
AREA
417
HEIGHT
49
21-Jun-2024
20:25
ALSHS
Server



AFTER

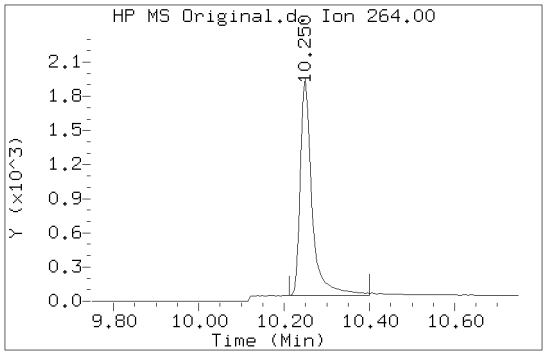
MASS
236
AREA
417
HEIGHT
49
22-Jun-2024
09:15



Perylene-d12 (1520-96-3)

BEFORE

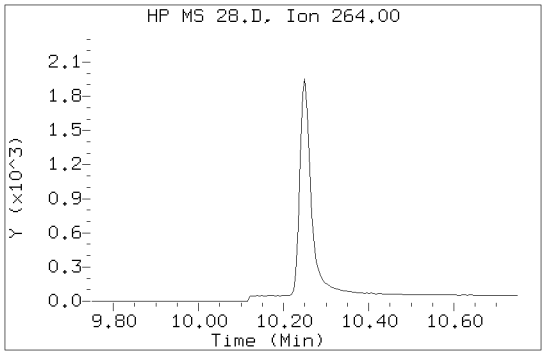
MASS
264
AREA
3660
HEIGHT
1903
21-Jun-2024
20:25
ALSHS
Server



AFTER

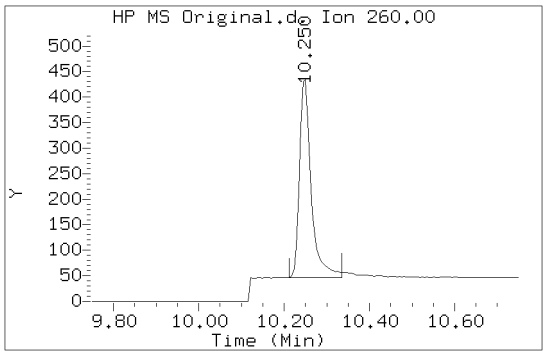
MASS
264
AREA
5691
HEIGHT
1951
22-Jun-2024
09:15

Reason Code:



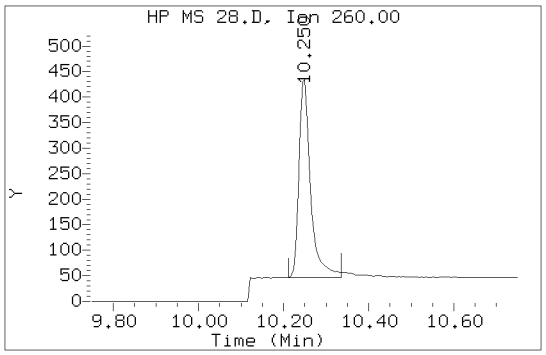
BEFORE

MASS
260
AREA
736
HEIGHT
387
21-Jun-2024
20:25
ALSHS
Server



AFTER

MASS
260
AREA
736
HEIGHT
387
22-Jun-2024
09:15

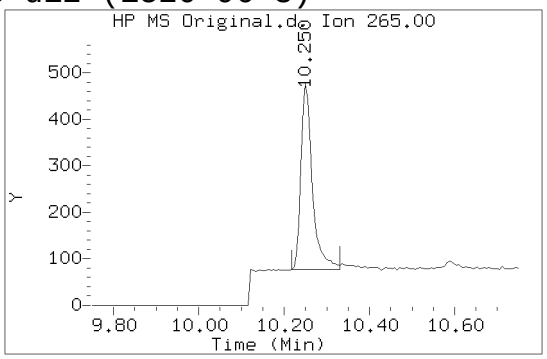


Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\28.D
Inj Date : 21-JUN-2024 20:10
InstruID : SV6.i
LabSampID : 14DX-0.08

Perylene-d12 (1520-96-3)

BEFORE

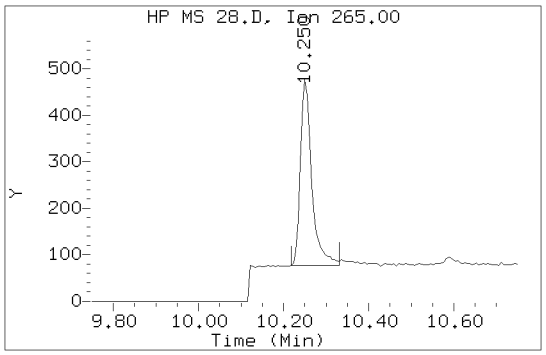
MASS
265
AREA
744
HEIGHT
400
21-Jun-2024
20:25
ALSHS
Server



Reason Code:

AFTER

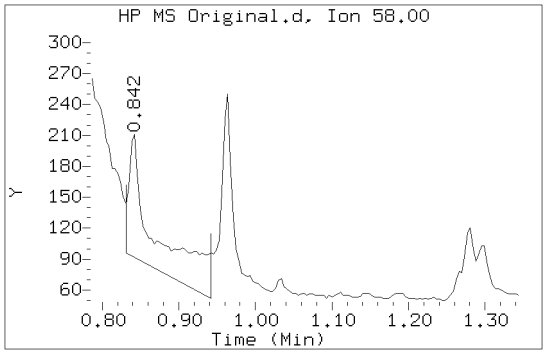
MASS
265
AREA
744
HEIGHT
400
22-Jun-2024
09:15



1,4-Dioxane ()

BEFORE

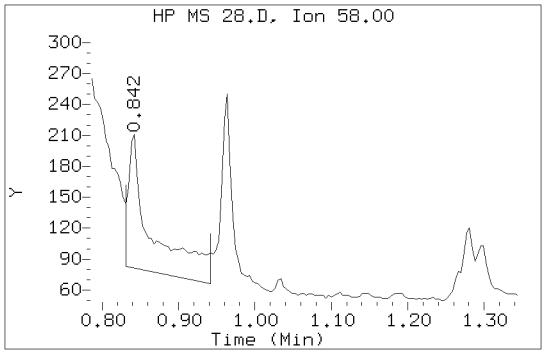
MASS
58
AREA
282
HEIGHT
119
21-Jun-2024
20:25
ALSHS
Server



Reason Code:

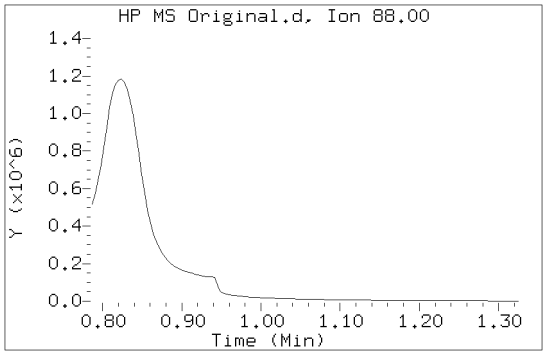
AFTER

MASS
58
AREA
278
HEIGHT
129
22-Jun-2024
09:15



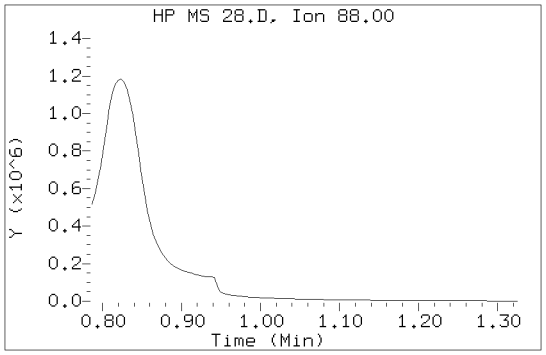
BEFORE

MASS
88
AREA
0
HEIGHT
0
21-Jun-2024
20:25
ALSHS
Server



AFTER

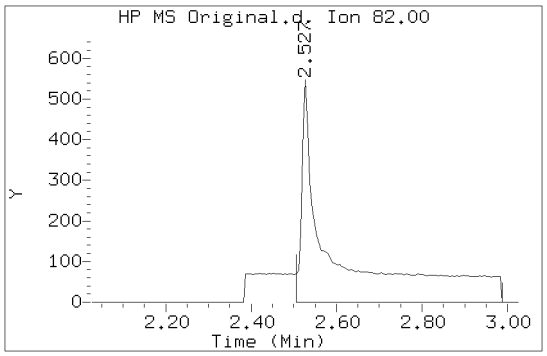
MASS
88
AREA
0
HEIGHT
0
22-Jun-2024
09:15



Nitrobenzene-d5 (4165-60-0)

BEFORE

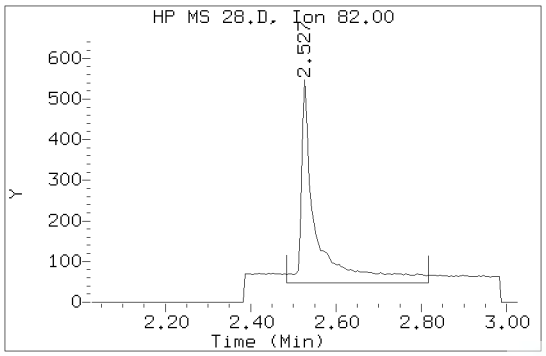
MASS
82
AREA
2742
HEIGHT
547
21-Jun-2024
20:25
ALSHS
Server



Reason Code:

AFTER

MASS
82
AREA
1213
HEIGHT
499
22-Jun-2024
09:15

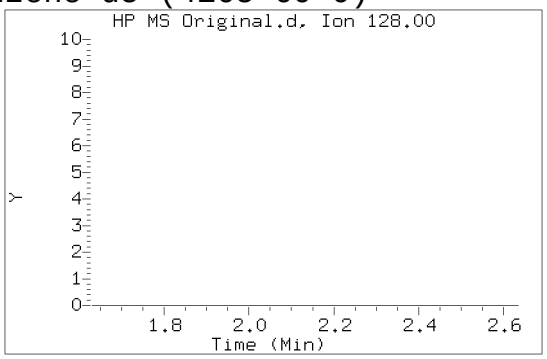


Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\28.D
Inj Date : 21-JUN-2024 20:10
InstruID : SV6.i
LabSampID : 14DX-0.08

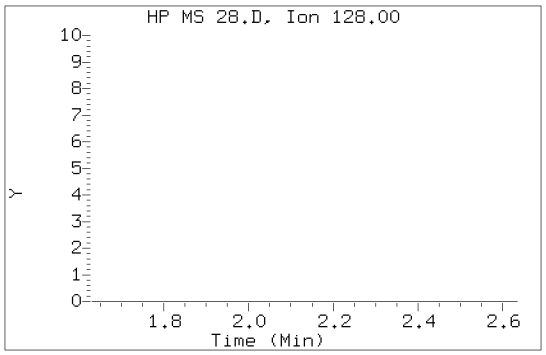
Nitrobenzene-d5 (4165-60-0)

Reason Code:

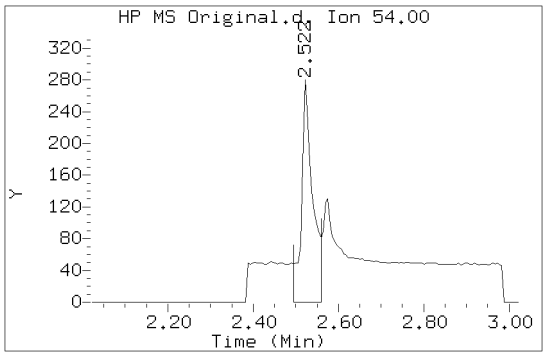
BEFORE
MASS
128
AREA
0
HEIGHT
0
21-Jun-2024
20:25
ALSHS
Server



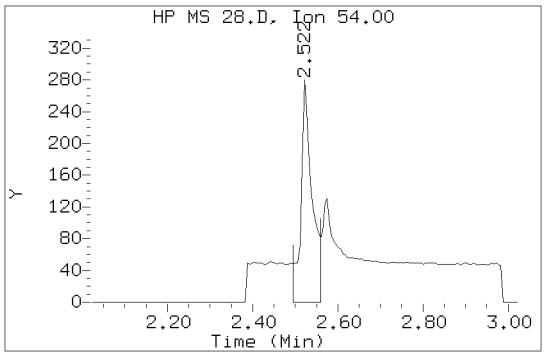
AFTER
MASS
128
AREA
0
HEIGHT
0
22-Jun-2024
09:15



BEFORE
MASS
54
AREA
519
HEIGHT
280
21-Jun-2024
20:25
ALSHS
Server



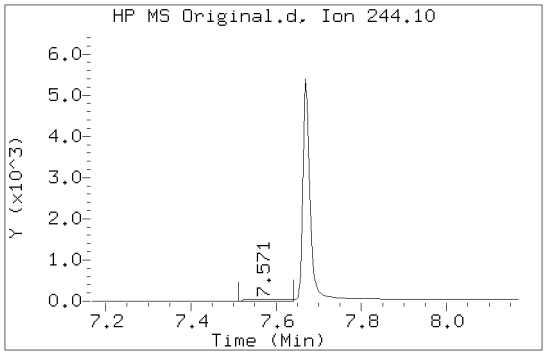
AFTER
MASS
54
AREA
519
HEIGHT
280
22-Jun-2024
09:15



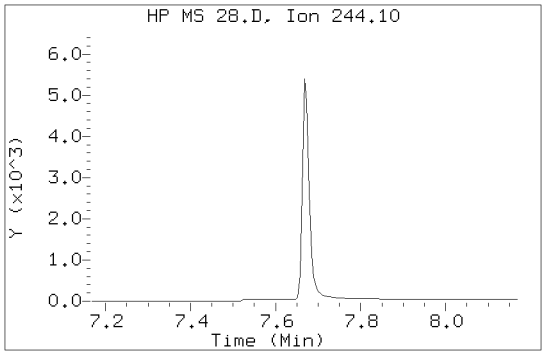
4-Terphenyl-d14 (1718-51-0)

Reason Code:

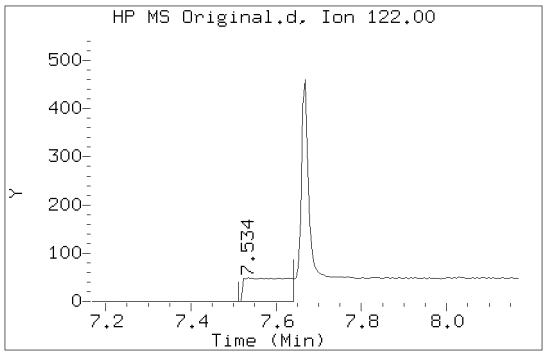
BEFORE
MASS
244.1
AREA
334
HEIGHT
46
21-Jun-2024
20:25
ALSHS
Server



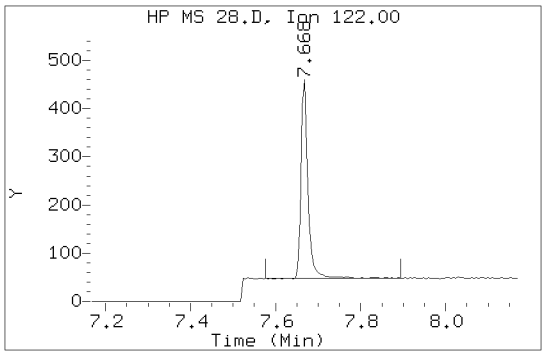
AFTER
MASS
244.1
AREA
8875
HEIGHT
5399
22-Jun-2024
09:15



BEFORE
MASS
122
AREA
353
HEIGHT
49
21-Jun-2024
20:25
ALSHS
Server



AFTER
MASS
122
AREA
470
HEIGHT
412
22-Jun-2024
09:15



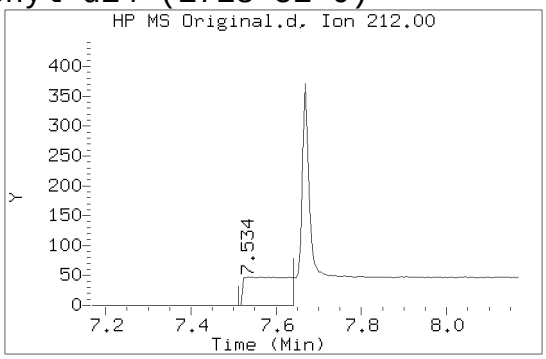
Data File : \\NAHSTWS005\Target\chem\SV6.i\240621.b\28.D
Inj Date : 21-JUN-2024 20:10
InstruID : SV6.i
LabSampID : 14DX-0.08

4-Terphenyl-d14 (1718-51-0)

Reason Code:

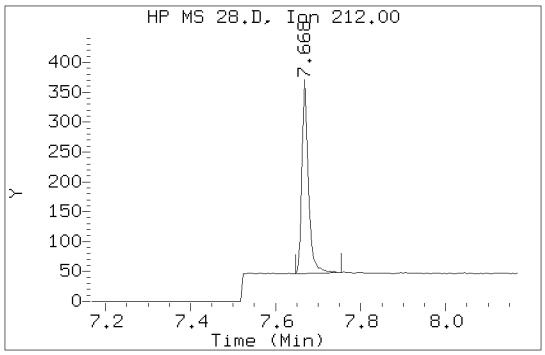
BEFORE

MASS
212
AREA
344
HEIGHT
47
21-Jun-2024
20:25
ALSHS
Server



AFTER

MASS
212
AREA
346
HEIGHT
324
22-Jun-2024
09:15



HS24060434-MSVOA-SW8260 REV01

ALS WO# HS24060434

right solutions.
right partner.

Form 2

System Monitoring Compound Recovery

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24060434

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 18/24

07/15/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 18/24

Workorder **HS24060434**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA7-469280

BatchQC

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24060214-10MS	Aqueous	06/12/24 19:20	%REC	100
Instrument ID	VOA7				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	P061223.D	5847	5000	117		81-118
4-Bromofluorobenzene	P061223.D	5687	5000	114		85-114
Dibromofluoromethane	P061223.D	5798	5000	116		80-119
Toluene-d8	P061223.D	5825	5000	116		89-112

BatchQC

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24060214-10MSD	Aqueous	06/12/24 19:43	%REC	100
Instrument ID	VOA7				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	P061224.D	5995	5000	120		81-118
4-Bromofluorobenzene	P061224.D	5797	5000	116		85-114
Dibromofluoromethane	P061224.D	6077	5000	122		80-119
Toluene-d8	P061224.D	5995	5000	120		89-112

MW2_060624

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24060434-01	Groundwater	06/13/24 01:31	%REC	250
Instrument ID	VOA7				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	P061239.D	14000	12500	116		81-118
4-Bromofluorobenzene	P061239.D	15000	12500	123		85-114
Dibromofluoromethane	P061239.D	14000	12500	115		80-119
Toluene-d8	P061239.D	14000	12500	109		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 18/24

Workorder **HS24060434**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA7-469280

18CPTMW01DW_060624

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24060434-02	Groundwater	06/12/24 21:38	%REC	1
Instrument ID	VOA7				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	P061229.D	57	50	114		81-118
4-Bromofluorobenzene	P061229.D	54	50	108		85-114
Dibromofluoromethane	P061229.D	58	50	116		80-119
Toluene-d8	P061229.D	56	50	111		89-112

18CPTMW01SW_060624

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24060434-03	Groundwater	06/13/24 01:54	%REC	100
Instrument ID	VOA7				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	P061240.D	5900	5000	117		81-118
4-Bromofluorobenzene	P061240.D	5400	5000	108		85-114
Dibromofluoromethane	P061240.D	5900	5000	117		80-119
Toluene-d8	P061240.D	5600	5000	112		89-112

102_060624

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24060434-04	Groundwater	06/12/24 22:01	%REC	1
Instrument ID	VOA7				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	P061230.D	58	50	116		81-118
4-Bromofluorobenzene	P061230.D	55	50	109		85-114
Dibromofluoromethane	P061230.D	59	50	117		80-119
Toluene-d8	P061230.D	55	50	111		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 18/24

Workorder **HS24060434**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA7-469280

102_060624_a

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24060434-05	Groundwater	06/13/24 01:08	%REC	1
Instrument ID	VOA7				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	P061238.D	58	50	117		81-118
4-Bromofluorobenzene	P061238.D	55	50	110		85-114
Dibromofluoromethane	P061238.D	57	50	114		80-119
Toluene-d8	P061238.D	56	50	112		89-112

18CPTMW07_060624

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24060434-06	Groundwater	06/12/24 22:23	%REC	1
Instrument ID	VOA7				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	P061231.D	55	50	111		81-118
4-Bromofluorobenzene	P061231.D	54	50	107		85-114
Dibromofluoromethane	P061231.D	56	50	113		80-119
Toluene-d8	P061231.D	55	50	111		89-112

18CPTMW24_060624

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24060434-07	Groundwater	06/13/24 00:45	%REC	25
Instrument ID	VOA7				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	P061237.D	1400	1250	115		81-118
4-Bromofluorobenzene	P061237.D	1400	1250	110		85-114
Dibromofluoromethane	P061237.D	1400	1250	113		80-119
Toluene-d8	P061237.D	1400	1250	112		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 18/24

Workorder **HS24060434**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA7-469280

MW8_060624

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24060434-08	Groundwater	06/12/24 22:46	%REC	1
Instrument ID	VOA7				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	P061232.D	58	50	117		81-118
4-Bromofluorobenzene	P061232.D	56	50	112		85-114
Dibromofluoromethane	P061232.D	59	50	118		80-119
Toluene-d8	P061232.D	55	50	111		89-112

Trip Blank

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24060434-10	Water	06/12/24 23:09	%REC	1
Instrument ID	VOA7				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	P061233.D	58	50	115		81-118
4-Bromofluorobenzene	P061233.D	55	50	110		85-114
Dibromofluoromethane	P061233.D	59	50	118		80-119
Toluene-d8	P061233.D	55	50	111		89-112

VBLKW-240612

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VBLKW-240612	Aqueous	06/12/24 17:26	%REC	1
Instrument ID	VOA7				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	P061218.D	55.8	50	112		81-118
4-Bromofluorobenzene	P061218.D	48.58	50	97.2		85-114
Dibromofluoromethane	P061218.D	56.06	50	112		80-119
Toluene-d8	P061218.D	53.79	50	108		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 18/24

Workorder HS24060434

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA7-469280

VLCSW-240612

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VLCSW-240612	Aqueous	06/12/24 16:40	%REC	1
Instrument ID	VOA7				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	P061216.D	51.13	50	102		81-118
4-Bromofluorobenzene	P061216.D	50.7	50	101		85-114
Dibromofluoromethane	P061216.D	49.54	50	99.1		80-119
Toluene-d8	P061216.D	52.27	50	105		89-112

VLSDW-240612

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VLSDW-240612	Aqueous	06/12/24 17:03	%REC	1
Instrument ID	VOA7				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	P061217.D	51.22	50	102		81-118
4-Bromofluorobenzene	P061217.D	51.55	50	103		85-114
Dibromofluoromethane	P061217.D	49.24	50	98.5		80-119
Toluene-d8	P061217.D	52.57	50	105		89-112

VSTD050

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VSTD050	Aqueous	06/12/24 16:17	%REC	1
Instrument ID	VOA7				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	P061215.D	48.45	50	96.9		80-120
4-Bromofluorobenzene	P061215.D	50.72	50	101		80-120
Dibromofluoromethane	P061215.D	49.61	50	99.2		80-120
Toluene-d8	P061215.D	51.11	50	102		80-120

Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
Workorder: HS24060434

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID: VOA7-469580

MW2_060624

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24060434-01	Groundwater	06/15/24 21:15	%REC	250
Instrument ID	VOA7				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	X061520.D	14000	12500	114		81-118
4-Bromofluorobenzene	X061520.D	14000	12500	109		85-114
Dibromofluoromethane	X061520.D	15000	12500	120		80-119
Toluene-d8	X061520.D	15000	12500	120		89-112

MW2_060624

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24060434-01MS	Aqueous	06/15/24 22:01	%REC	250
Instrument ID	VOA7				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	X061522.D	14540	12500	116		81-118
4-Bromofluorobenzene	X061522.D	13530	12500	108		85-114
Dibromofluoromethane	X061522.D	14400	12500	115		80-119
Toluene-d8	X061522.D	15030	12500	120		89-112

MW2_060624

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24060434-01MSD	Aqueous	06/15/24 22:24	%REC	250
Instrument ID	VOA7				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	X061523.D	14900	12500	119		81-118
4-Bromofluorobenzene	X061523.D	14030	12500	112		85-114
Dibromofluoromethane	X061523.D	15000	12500	120		80-119
Toluene-d8	X061523.D	15420	12500	123		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 18/24

Workorder HS24060434

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA7-469580

VBLKW-240615

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VBLKW-240615	Aqueous	06/15/24 20:07	%REC	1
Instrument ID	VOA7				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	X061517.D	57.75	50	116		81-118
4-Bromofluorobenzene	X061517.D	54.97	50	110		85-114
Dibromofluoromethane	X061517.D	57.43	50	115		80-119
Toluene-d8	X061517.D	55.86	50	112		89-112

VLCSDW-240615

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VLCSDW-240615	Aqueous	06/15/24 19:21	%REC	1
Instrument ID	VOA7				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	X061515.D	51.37	50	103		81-118
4-Bromofluorobenzene	X061515.D	51.88	50	104		85-114
Dibromofluoromethane	X061515.D	51.09	50	102		80-119
Toluene-d8	X061515.D	52.49	50	105		89-112

VLCSW-240615

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VLCSW-240615	Aqueous	06/15/24 18:58	%REC	1
Instrument ID	VOA7				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	X061514.D	47.94	50	95.9		81-118
4-Bromofluorobenzene	X061514.D	51.19	50	102		85-114
Dibromofluoromethane	X061514.D	48.36	50	96.7		80-119
Toluene-d8	X061514.D	52.34	50	105		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 18/24

Workorder HS24060434

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA7-469580

VSTD50

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VSTD50	Aqueous	06/15/24 18:35	%REC	1
Instrument ID	VOA7				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	X061513A.D	46.52	50	93.0		80-120
4-Bromofluorobenzene	X061513A.D	48.95	50	97.9		80-120
Dibromofluoromethane	X061513A.D	48.14	50	96.3		80-120
Toluene-d8	X061513A.D	48.75	50	97.5		80-120

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 18/24

Workorder **HS24060434**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-469833

BatchQC

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24060379-09MS	Aqueous	06/18/24 22:21	%REC	100
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U61831.D	5863	5000	117		81-118
4-Bromofluorobenzene	U61831.D	6171	5000	123		85-114
Dibromofluoromethane	U61831.D	5826	5000	117		80-119
Toluene-d8	U61831.D	6204	5000	124		89-112

BatchQC

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24060379-09MSD	Aqueous	06/18/24 22:42	%REC	100
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U61832.D	6000	5000	120		81-118
4-Bromofluorobenzene	U61832.D	6180	5000	124		85-114
Dibromofluoromethane	U61832.D	5907	5000	118		80-119
Toluene-d8	U61832.D	6285	5000	126		89-112

MW8_060624

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24060434-08	Groundwater	06/18/24 23:04	%REC	25
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U61833.D	1400	1250	115		81-118
4-Bromofluorobenzene	U61833.D	1500	1250	118		85-114
Dibromofluoromethane	U61833.D	1400	1250	114		80-119
Toluene-d8	U61833.D	1500	1250	122		89-112

Form 2 - System Monitoring Compound Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 18/24

Workorder HS24060434

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-469833

VBLKW-240618

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VBLKW-240618	Aqueous	06/18/24 17:38	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U61818.D	57.83	50	116		81-118
4-Bromofluorobenzene	U61818.D	58.46	50	117		85-114
Dibromofluoromethane	U61818.D	55.96	50	112		80-119
Toluene-d8	U61818.D	59.61	50	119		89-112

VLCSW-240618

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VLCSW-240618	Aqueous	06/18/24 16:34	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U61815.D	56.24	50	112		81-118
4-Bromofluorobenzene	U61815.D	59.81	50	120		85-114
Dibromofluoromethane	U61815.D	56.8	50	114		80-119
Toluene-d8	U61815.D	59.59	50	119		89-112

VSTD050

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VSTD050	Aqueous	06/18/24 15:51	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U61814.D	44.76	50	89.5		80-120
4-Bromofluorobenzene	U61814.D	46.44	50	92.9		80-120
Dibromofluoromethane	U61814.D	44.72	50	89.4		80-120
Toluene-d8	U61814.D	46.61	50	93.2		80-120

right solutions.
right partner.

Form 3A

Matrix Spike/Spike Duplicate Recovery

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24060434

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 18/24

07/15/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
Workorder: HS24060434

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM: HS24060214-10MS

BatchQC (HS24060214-10)				HS24060214-10MS				HS24060214-10MSD						
Spike Matrix: Aqueous	Result Units: ug/L			Run Date: 06/12/24				Run Date: 06/12/24						
Instrument ID: VOA7				Run Time: 19:20				Run Time: 19:43						
				Data File: P061223.D				Data File: P061224.D						
Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
1,1,1,2-Tetrachloroethane	78-124	100	0	1596.45	2000	80		2093.06	2000	105		20	26.9	
1,1,1-Trichloroethane	74-131	100	0	1739.49	2000	87		2243.91	2000	112		20	25.3	
1,1,2,2-Tetrachloroethane	71-121	100	0	1440.47	2000	72		1868.53	2000	93		20	25.9	
1,1,2-Trichloroethane	80-119	100	0	1524.23	2000	76		2101.47	2000	105		20	31.8	
1,1-Dichloroethane	77-125	100	0	1729.80	2000	86		2339.73	2000	117		20	30	
1,1-Dichloroethene	71-131	100	189.3	2151.21	2000	98		2673.31	2000	124		20	21.6	
1,1-Dichloropropene	78-125	100	0	1754.25	2000	88		2273.69	2000	114		20	25.8	
1,2,3-Trichlorobenzene	69-129	100	0	1277.48	2000	64		1777.99	2000	89		20	32.8	
1,2,3-Trichloropropane	73-122	100	2751	1472.85	2000	-64		1881.87	2000	-43		20	24.4	
1,2,4-Trichlorobenzene	69-130	100	51.18	1389.17	2000	67		1889.23	2000	92		20	30.5	
1,2,4-Trimethylbenzene	76-124	100	0	1595.95	2000	80		2184.55	2000	109		20	31.1	
1,2-Dibromo-3-chloropropane	62-128	100	0	1272.55	2000	64		1654.85	2000	83		20	26.1	
1,2-Dibromoethane	77-121	100	0	1624.93	2000	81		2134.63	2000	107		20	27.1	
1,2-Dichlorobenzene	80-119	100	0	1465.32	2000	73		2041.66	2000	102		20	32.9	
1,2-Dichloroethane	73-128	100	298.3	1623.93	2000	66		2147.28	2000	92		20	27.8	
1,2-Dichloropropane	78-122	100	2969	1687.13	2000	-64		2235.34	2000	-37		20	28	
1,3,5-Trimethylbenzene	75-124	100	0	1612.14	2000	81		2176.89	2000	109		20	29.8	
1,3-Dichlorobenzene	80-119	100	0	1551.30	2000	78		2069.57	2000	103		20	28.6	
1,3-Dichloropropane	80-119	100	0	1548.01	2000	77		2079.43	2000	104		20	29.3	
1,4-Dichlorobenzene	79-118	100	0	1546.06	2000	77		2061.75	2000	103		20	28.6	
2,2-Dichloropropane	60-139	100	0	1653.31	2000	83		2196.35	2000	110		20	28.2	
2-Butanone	56-143	100	0	3082.24	4000	77		3978.20	4000	100		20	25.4	
2-Chlorotoluene	79-122	100	0	1617.76	2000	81		2187.47	2000	109		20	29.9	
2-Hexanone	57-139	100	0	2775.67	4000	69		3574.39	4000	89		20	25.2	
4-Chlorotoluene	78-122	100	0	1603.80	2000	80		2124.46	2000	106		20	27.9	
4-Isopropyltoluene	77-127	100	0	1513.47	2000	76		2026.89	2000	101		20	29	
4-Methyl-2-pentanone	67-130	100	0	2781.11	4000	70		3619.38	4000	90		20	26.2	
Acetone	39-160	100	0	2739.08	4000	68		3655.65	4000	91		20	28.7	
Benzene	79-120	100	0	1766.53	2000	88		2265.18	2000	113		20	24.7	
Bromobenzene	80-120	100	0	1596.36	2000	80		2089.90	2000	104		20	26.8	
Bromochloromethane	78-123	100	0	1683.43	2000	84		2252.28	2000	113		20	28.9	
Bromodichloromethane	79-125	100	0	1587.89	2000	79		2114.88	2000	106		20	28.5	

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
Workorder: HS24060434

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM: HS24060214-10MS

BatchQC (HS24060214-10)				HS24060214-10MS				HS24060214-10MSD						
Spike Matrix: Aqueous	Result Units: ug/L			Run Date: 06/12/24				Run Date: 06/12/24						
Instrument ID: VOA7				Run Time: 19:20				Run Time: 19:43						
				Data File: P061223.D				Data File: P061224.D						
Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
Bromoform	66-130	100	0	1474.82	2000	74		1966.43	2000	98		20	28.6	
Bromomethane	53-141	100	0	1787.21	2000	89		2297.00	2000	115		20	25	
Carbon disulfide	64-133	100	0	3658.55	4000	92		4639.62	4000	116		20	23.6	
Carbon tetrachloride	72-136	100	73.02	1663.35	2000	80		2161.10	2000	104		20	26	
Chlorobenzene	82-118	100	0	1642.65	2000	82		2212.54	2000	111		20	29.6	
Chloroethane	60-138	100	0	1914.48	2000	96		2420.89	2000	121		20	23.4	
Chloroform	79-124	100	0	1727.57	2000	86		2293.52	2000	115		20	28.1	
Chloromethane	50-139	100	0	1948.10	2000	97		2400.22	2000	120		20	20.8	
cis-1,2-Dichloroethene	78-123	100	616.2	2449.81	2000	92		3027.27	2000	121		20	21.1	
cis-1,3-Dichloropropene	75-124	100	0	1655.57	2000	83		2085.13	2000	104		20	23	
Dibromochloromethane	74-126	100	0	1511.64	2000	76		2021.08	2000	101		20	28.8	
Dibromomethane	79-123	100	0	1597.61	2000	80		2066.01	2000	103		20	25.6	
Dichlorodifluoromethane	32-152	100	73.38	1846.11	2000	89		2454.00	2000	119		20	28.3	
Ethylbenzene	79-121	100	0	1701.33	2000	85		2309.75	2000	115		20	30.3	
Hexachlorobutadiene	66-134	100	0	1643.16	2000	82		2291.28	2000	115		20	32.9	
Isopropylbenzene	72-131	100	0	1701.31	2000	85		2310.88	2000	116		20	30.4	
m,p-Xylene	80-121	100	0	3391.77	4000	85		4625.64	4000	116		20	30.8	
Methylene chloride	74-124	100	43.16	1904.50	2000	93		2423.86	2000	119		20	24	
Naphthalene	61-128	100	0	1247.64	2000	62		1675.55	2000	84		20	29.3	
n-Butylbenzene	75-128	100	0	1522.21	2000	76		2043.47	2000	102		20	29.2	
n-Propylbenzene	76-126	100	0	1640.36	2000	82		2202.56	2000	110		20	29.3	
o-Xylene	78-122	100	0	1673.04	2000	84		2295.39	2000	115		20	31.4	
sec-Butylbenzene	77-126	100	0	1649.90	2000	82		2222.03	2000	111		20	29.6	
Styrene	78-123	100	0	1671.60	2000	84		2220.69	2000	111		20	28.2	
tert-Butylbenzene	78-124	100	0	1673.38	2000	84		2257.96	2000	113		20	29.7	
Tetrachloroethene	74-129	100	0	1635.68	2000	82		2200.13	2000	110		20	29.4	
Toluene	80-121	100	0	1700.17	2000	85		2277.87	2000	114		20	29	
trans-1,2-Dichloroethene	75-124	100	0	1695.28	2000	85		2165.91	2000	108		20	24.4	
trans-1,3-Dichloropropene	73-127	100	0	1655.57	2000	83		2085.13	2000	104		20	23	
Trichloroethene	79-123	100	6400	9021.00	2000	131		9253.62	2000	143		20	2.55	
Trichlorofluoromethane	65-141	100	0	1809.28	2000	90		2437.53	2000	122		20	29.6	
Vinyl chloride	58-137	100	89.75	1898.22	2000	90		2394.90	2000	115		20	23.1	

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client	Bhate Environmental Associates, Inc.	Workorder	HS24060434
Project	LHAAP Site 18/24		

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM HS24060214-10MS

BatchQC (HS24060214-10)				HS24060214-10MS		HS24060214-10MSD		
Spike Matrix	Aqueous	Result Units	ug/L	Run Date	06/12/24	Run Date	06/12/24	
Instrument ID	VOA7			Run Time	19:20	Run Time	19:43	
				Data File	P061223.D	Data File	P061224.D	

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits OL - Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 18/24

Workorder **HS24060434**

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM HS24060379-09MS

BatchQC (HS24060379-09)				HS24060379-09MS				HS24060379-09MSD						
Spike Matrix Aqueous		Result Units ug/L		Run Date 06/18/24				Run Date 06/18/24						
Instrument ID VOA9				Run Time 22:21				Run Time 22:42						
				Data File U61831.D				Data File U61832.D						
Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
Trichloroethene	79-123	100	0	1715.29	2000	86		1656.85	2000	83		20	3.47	

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits OL - Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.

Project: LHAAP Site 18/24

Workorder: **HS24060434**

SAMPLENUM: HS24060434-01MS

Volatiles by EPA Volatiles Organics by Method 8260C

MW2_060624 (HS24060434-01)				HS24060434-01MS				HS24060434-01MSD						
Spike Matrix: Aqueous	Result Units: ug/L			Run Date: 06/15/24				Run Date: 06/15/24						
Instrument ID: VOA7				Run Time: 22:01				Run Time: 22:24						
				Data File: X061522.D				Data File: X061523.D						
Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
1,2,4-Trimethylbenzene	76-124	250	0	4072.36	5000	81		3868.66	5000	77		20	5.13	
Isopropylbenzene	72-131	250	0	4132.10	5000	83		4029.40	5000	81		20	2.52	

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits OL - Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

right solutions.
right partner.

Form 3B

Laboratory Control Sample Recovery

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24060434

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 18/24

07/15/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 18/24

Workorder HS24060434

SAMPLENUM VLCSW-240612

Volatiles by EPA Volatiles Organics by Method 8260C

VOA7_469280			VLCSW-240612				
Spike Matrix Aqueous	Result Units ug/L		Run Date 06/12/24 Run Time 16:40				
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q		
1,1,1,2-Tetrachloroethane	78-124	20	19.55	97.7			
1,1,1-Trichloroethane	74-131	20	19.28	96.4			
1,1,2,2-Tetrachloroethane	71-121	20	20.71	104			
1,1,2-Trichloroethane	80-119	20	19.88	99.4			
1,1-Dichloroethane	77-125	20	19.8	99.0			
1,1-Dichloroethene	71-131	20	19.56	97.8			
1,1-Dichloropropene	78-125	20	19.95	99.8			
1,2,3-Trichlorobenzene	69-129	20	23.51	118			
1,2,3-Trichloropropane	73-122	20	20.86	104			
1,2,4-Trichlorobenzene	69-130	20	22.28	111			
1,2,4-Trimethylbenzene	76-124	20	21.34	107			
1,2-Dibromo-3-chloropropane	62-128	20	20.51	103			
1,2-Dibromoethane	77-121	20	20.09	100			
1,2-Dichlorobenzene	80-119	20	20.85	104			
1,2-Dichloroethane	73-128	20	19.85	99.3			
1,2-Dichloropropane	78-122	20	20.24	101			
1,3,5-Trimethylbenzene	75-124	20	20.84	104			
1,3-Dichlorobenzene	80-119	20	20.98	105			
1,3-Dichloropropane	80-119	20	20.03	100			
1,4-Dichlorobenzene	79-118	20	20.93	105			
2,2-Dichloropropane	60-139	20	18.8	94.0			
2-Butanone	56-143	40	43.13	108			
2-Chlorotoluene	79-122	20	21.02	105			
2-Hexanone	57-139	40	41.1	103			
4-Chlorotoluene	78-122	20	20.78	104			
4-Isopropyltoluene	77-127	20	19.83	99.1			
4-Methyl-2-pentanone	67-130	40	41.84	105			
Acetone	39-160	40	39.58	98.9			
Benzene	79-120	20	20.33	102			
Bromobenzene	80-120	20	20.7	103			
Bromochloromethane	78-123	20	19.56	97.8			
Bromodichloromethane	79-125	20	19.31	96.5			
Bromoform	66-130	20	19.7	98.5			
Bromomethane	53-141	20	18.57	92.8			
Carbon disulfide	64-133	40	40.11	100			

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 18/24

Workorder HS24060434

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM VLCSW-240612

VOA7_469280			VLCSW-240612				
Spike Matrix Aqueous	Result Units ug/L		Run Date 06/12/24 Run Time 16:40				
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q		
Carbon tetrachloride	72-136	20	19.02	95.1			
Chlorobenzene	82-118	20	20.1	101			
Chloroethane	60-138	20	20.12	101			
Chloroform	79-124	20	19.72	98.6			
Chloromethane	50-139	20	19.95	99.8			
cis-1,2-Dichloroethene	78-123	20	19.81	99.0			
cis-1,3-Dichloropropene	75-124	20	19.66	98.3			
Dibromochloromethane	74-126	20	19.45	97.3			
Dibromomethane	79-123	20	20.03	100			
Dichlorodifluoromethane	32-152	20	19.19	96.0			
Ethylbenzene	79-121	20	20.26	101			
Hexachlorobutadiene	66-134	20	25.2	126			
Isopropylbenzene	72-131	20	20.33	102			
m,p-Xylene	80-121	40	41.1	103			
Methylene chloride	74-124	20	20.22	101			
Naphthalene	61-128	20	22.91	115			
n-Butylbenzene	75-128	20	20.75	104			
n-Propylbenzene	76-126	20	20.95	105			
o-Xylene	78-122	20	20.34	102			
sec-Butylbenzene	77-126	20	21.44	107			
Styrene	78-123	20	20.43	102			
tert-Butylbenzene	78-124	20	21.31	107			
Tetrachloroethene	74-129	20	19.73	98.6			
Toluene	80-121	20	20.25	101			
trans-1,2-Dichloroethene	75-124	20	18.94	94.7			
trans-1,3-Dichloropropene	73-127	20	19.66	98.3			
Trichloroethene	79-123	20	20.39	102			
Trichlorofluoromethane	65-141	20	19.27	96.3			
Vinyl chloride	58-137	20	20.41	102			

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 18/24

Workorder HS24060434

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM VLCSW-240615

VOA7_469580			VLCSW-240615			VLCSDW-240615					
Spike Matrix Aqueous	Result Units ug/L		Run Date 06/15/24 Run Time 18:58			Run Date 06/15/24 Run Time 19:21					
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	LCSD Result	%R	Q	RPD Limit	RPD	Q
1,2,4-Trimethylbenzene	76-124	20	20.66	103		20.91	105		20	1.23	
Isopropylbenzene	72-131	20	20.03	100		20.25	101		20	1.11	

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 18/24

Workorder HS24060434

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM VLCSW-240618

VOA9_469833			VLCSW-240618				
Spike Matrix Aqueous	Result Units ug/L		Run Date 06/18/24 Run Time 16:34				
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q		
Trichloroethene	79-123	20	19.32	96.6			

right solutions.
right partner.

Form 4

Method Blank Summary

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24060434

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 18/24

07/15/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 4 - Method Blank Summary

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
Workorder: HS24060434

Volatiles by EPA Volatiles Organics by Method 8260C

METHOD BLANK	Matrix	Analysis Date	Analysis Batch	Inst ID
VBLKW-240612	Aqueous	06/12/24 17:26	R469280	VOA7

Client Sample ID	Lab Sample ID	Type	Analysis Date	Analysis Batch	Inst ID	FileID
VLCSW-240612	VLCSW-240612	LCS	06/12/24 16:40	R469280	VOA7	P061216.D
VLSDW-240612	VLSDW-240612	LCSD	06/12/24 17:03	R469280	VOA7	P061217.D
BatchQC	HS24060214-10MS	MS	06/12/24 19:20	R469280	VOA7	P061223.D
BatchQC	HS24060214-10MSD	MSD	06/12/24 19:43	R469280	VOA7	P061224.D
18CPTMW01DW_060624	HS24060434-02	SAMP	06/12/24 21:38	R469280	VOA7	P061229.D
102_060624	HS24060434-04	SAMP	06/12/24 22:01	R469280	VOA7	P061230.D
18CPTMW07_060624	HS24060434-06	SAMP	06/12/24 22:23	R469280	VOA7	P061231.D
MW8_060624	HS24060434-08	SAMP	06/12/24 22:46	R469280	VOA7	P061232.D
Trip Blank	HS24060434-10	SAMP	06/12/24 23:09	R469280	VOA7	P061233.D
18CPTMW24_060624	HS24060434-07	SAMP	06/13/24 00:45	R469280	VOA7	P061237.D
102_060624_a	HS24060434-05	SAMP	06/13/24 01:08	R469280	VOA7	P061238.D
MW2_060624	HS24060434-01	SAMP	06/13/24 01:31	R469280	VOA7	P061239.D
18CPTMW01SW_060624	HS24060434-03	SAMP	06/13/24 01:54	R469280	VOA7	P061240.D

Form 4 - Method Blank Summary

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
Workorder: HS24060434

Volatiles by EPA Volatiles Organics by Method 8260C

METHOD BLANK	Matrix	Analysis Date	Analysis Batch	Inst ID
VBLKW-240615	Aqueous	06/15/24 20:07	R469580	VOA7

Client Sample ID	Lab Sample ID	Type	Analysis Date	Analysis Batch	Inst ID	FileID
VLCSW-240615	VLCSW-240615	LCS	06/15/24 18:58	R469580	VOA7	X061514.D
VLCSDW-240615	VLCSDW-240615	LCSD	06/15/24 19:21	R469580	VOA7	X061515.D
MW2_060624	HS24060434-01	SAMP	06/15/24 21:15	R469580	VOA7	X061520.D
MW2_060624	HS24060434-01MS	MS	06/15/24 22:01	R469580	VOA7	X061522.D
MW2_060624	HS24060434-01MSD	MSD	06/15/24 22:24	R469580	VOA7	X061523.D

Form 4 - Method Blank Summary

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	LHAAP Site 18/24	**HS24060434**	

Volatiles by EPA Volatiles Organics by Method 8260C

METHOD BLANK	Matrix	Analysis Date	Analysis Batch	Inst ID
VBLKW-240618	Aqueous	06/18/24 17:38	R469833	VOA9

Client Sample ID	Lab Sample ID	Type	Analysis Date	Analysis Batch	Inst ID	FileID
VLCSW-240618	VLCSW-240618	LCS	06/18/24 16:34	R469833	VOA9	U61815.D
BatchQC	HS24060379-09MS	MS	06/18/24 22:21	R469833	VOA9	U61831.D
BatchQC	HS24060379-09MSD	MSD	06/18/24 22:42	R469833	VOA9	U61832.D
MW8_060624	HS24060434-08	SAMP	06/18/24 23:04	R469833	VOA9	U61833.D

right solutions.
right partner.

Form 5

Instrument Performance Check

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24060434

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 18/24

07/15/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

ALS Houston, US

Date: 15-Jul-24

Form 5 - Instrument Performance Check
BROMOFLUOROBENZENE (BFB)

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060434 **Run ID:** VOA7_469280

Lab File ID: P061213.D
Instrument ID: VOA7
Injection Date: 12-Jun-2024
Injection Time: 15:31

m/e	Ion Abundance Criterion	% Relative Abundance
50	15.0 - 40.0% of mass 95	18.0
75	30.0 - 60.0% of mass 95	46.9
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	5.5
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	greater than 50.0% of mass 95	81.6 (81.6) 1
175	5.0 - 9.0% of mass 174	6.5 (8.0) 1
176	> 95% but < 101% of mass 174	79.8 (97.8) 1
177	5.0 - 9.0% of mass 176	5.1 (6.3) 2

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

This check applies to following Samples, MS, MSD, Blanks and Standards

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed
VSTD050	VSTD050	P061215.D	12-Jun-2024 16:17
VLCSW-240612	VLCSW-240612	P061216.D	12-Jun-2024 16:40
VLSDW-240612	VLSDW-240612	P061217.D	12-Jun-2024 17:03
VBLKW-240612	VBLKW-240612	P061218.D	12-Jun-2024 17:26
ZZZZZZMS	HS24060214-10MS	P061223.D	12-Jun-2024 19:20
ZZZZZZMSD	HS24060214-10MSD	P061224.D	12-Jun-2024 19:43
18CPTMW01DW_060624	HS24060434-02	P061229.D	12-Jun-2024 21:38
102_060624	HS24060434-04	P061230.D	12-Jun-2024 22:01
18CPTMW07_060624	HS24060434-06	P061231.D	12-Jun-2024 22:23
MW8_060624	HS24060434-08	P061232.D	12-Jun-2024 22:46
Trip Blank	HS24060434-10	P061233.D	12-Jun-2024 23:09
18CPTMW24_060624	HS24060434-07	P061237.D	13-Jun-2024 00:45
102_060624_a	HS24060434-05	P061238.D	13-Jun-2024 01:08
MW2_060624	HS24060434-01	P061239.D	13-Jun-2024 01:31
18CPTMW01SW_060624	HS24060434-03	P061240.D	13-Jun-2024 01:54
VSTD050	VSTD050	P061242.D	13-Jun-2024 02:40

ALS Houston, US Date: 15-Jul-24

Form 5 - Instrument Performance Check
BROMOFLUOROBENZENE (BFB)

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060434 **Run ID:** VOA7_469569

Lab File ID: X061501.D
Instrument ID: VOA7
Injection Date: 15-Jun-2024
Injection Time: 13:38

m/e	Ion Abundance Criterion	% Relative Abundance
50	15.0 - 40.0% of mass 95	21.2
50	15.0 - 40.0% of mass 95	19.3
75	30.0 - 60.0% of mass 95	51.3
75	30.0 - 60.0% of mass 95	50.1
95	Base peak, 100% relative abundance	100.0
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0) 1
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	greater than 50.0% of mass 95	75.2 (75.2) 1
174	greater than 50.0% of mass 95	77.8 (77.8) 1
175	5.0 - 9.0% of mass 174	6.7 (8.8) 1
175	5.0 - 9.0% of mass 174	6.9 (8.9) 1
176	> 95% but < 101% of mass 174	73.5 (97.7) 1
176	> 95% but < 101% of mass 174	74.9 (96.3) 1
177	5.0 - 9.0% of mass 176	4.3 (5.9) 2
177	5.0 - 9.0% of mass 176	5.3 (7.1) 2

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

This check applies to following Samples, MS, MSD, Blanks and Standards

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed
VSTD00.5	VSTD00.5	X061502.D	15-Jun-2024 14:01
VSTD001	VSTD001	X061503.D	15-Jun-2024 14:24
VSTD002	VSTD002	X061504.D	15-Jun-2024 14:46
VSTD005	VSTD005	X061505.D	15-Jun-2024 15:09
VSTD010	VSTD010	X061506.D	15-Jun-2024 15:32
VSTD020	VSTD020	X061507.D	15-Jun-2024 15:55
VSTD050	VSTD050	X061508.D	15-Jun-2024 16:18
VSTD100	VSTD100	X061509.D	15-Jun-2024 16:41
VSTD200	VSTD200	X061510.D	15-Jun-2024 17:04
VSTD50	VSTD50	X061513A.D	15-Jun-2024 18:35

ALS Houston, US Date: 15-Jul-24

Form 5 - Instrument Performance Check
BROMOFLUOROBENZENE (BFB)

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060434 **Run ID:** VOA7_469580

Lab File ID: X061512.D
Instrument ID: VOA7
Injection Date: 15-Jun-2024
Injection Time: 17:50

m/e	Ion Abundance Criterion	% Relative Abundance
50	15.0 - 40.0% of mass 95	19.3
75	30.0 - 60.0% of mass 95	50.1
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	greater than 50.0% of mass 95	77.8 (77.8) 1
175	5.0 - 9.0% of mass 174	6.9 (8.9) 1
176	> 95% but < 101% of mass 174	74.9 (96.3) 1
177	5.0 - 9.0% of mass 176	5.3 (7.1) 2

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

This check applies to following Samples, MS, MSD, Blanks and Standards

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed
VSTD50	VSTD50	X061513A.D	15-Jun-2024 18:35
VLCSW-240615	VLCSW-240615	X061514.D	15-Jun-2024 18:58
VLCSDW-240615	VLCSDW-240615	X061515.D	15-Jun-2024 19:21
VBLKW-240615	VBLKW-240615	X061517.D	15-Jun-2024 20:07
MW2_060624	HS24060434-01	X061520.D	15-Jun-2024 21:15
HS24060434-01MS	HS24060434-01MS	X061522.D	15-Jun-2024 22:01
HS24060434-01MSD	HS24060434-01MSD	X061523.D	15-Jun-2024 22:24
VSTD50	VSTD50	X061541.D	16-Jun-2024 05:16

ALS Houston, US Date: 15-Jul-24

Form 5 - Instrument Performance Check
BROMOFLUOROBENZENE (BFB)

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060434 **Run ID:** VOA9_469810

Lab File ID: U61801.D
Instrument ID: VOA9
Injection Date: 18-Jun-2024
Injection Time: 11:12

m/e	Ion Abundance Criterion	% Relative Abundance
50	15.0 - 40.0% of mass 95	19.0
50	15.0 - 40.0% of mass 95	18.6
75	30.0 - 60.0% of mass 95	48.8
75	30.0 - 60.0% of mass 95	48.7
95	Base peak, 100% relative abundance	100.0
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.2
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0) 1
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	greater than 50.0% of mass 95	84.1 (84.1) 1
174	greater than 50.0% of mass 95	84.0 (84.0) 1
175	5.0 - 9.0% of mass 174	6.9 (8.2) 1
175	5.0 - 9.0% of mass 174	7.4 (8.8) 1
176	> 95% but < 101% of mass 174	80.6 (95.9) 1
176	> 95% but < 101% of mass 174	80.4 (95.8) 1
177	5.0 - 9.0% of mass 176	5.8 (7.2) 2
177	5.0 - 9.0% of mass 176	6.0 (7.5) 2

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

This check applies to following Samples, MS, MSD, Blanks and Standards

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed
VSTD00.25	VSTD00.25	U61802.D	18-Jun-2024 11:33
VSTD00.5	VSTD00.5	U61803.D	18-Jun-2024 11:55
VSTD001	VSTD001	U61804.D	18-Jun-2024 12:16
VSTD002	VSTD002	U61805.D	18-Jun-2024 12:38
VSTD005	VSTD005	U61806.D	18-Jun-2024 12:59
VSTD020	VSTD020	U61807.D	18-Jun-2024 13:21
VSTD050	VSTD050	U61808.D	18-Jun-2024 13:42
VSTD100	VSTD100	U61809.D	18-Jun-2024 14:04
VSTD150	VSTD150	U61810.D	18-Jun-2024 14:25
VSTD200	VSTD200	U61811.D	18-Jun-2024 14:47
VSTD050	VSTD050	U61814.D	18-Jun-2024 15:51

ALS Houston, US

Date: 15-Jul-24

Form 5 - Instrument Performance Check
BROMOFLUOROBENZENE (BFB)

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060434 **Run ID:** VOA9_469833

Lab File ID: U61813.D
Instrument ID: VOA9
Injection Date: 18-Jun-2024
Injection Time: 15:30

m/e	Ion Abundance Criterion	% Relative Abundance
50	15.0 - 40.0% of mass 95	18.6
75	30.0 - 60.0% of mass 95	48.7
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	greater than 50.0% of mass 95	84.0 (84.0) 1
175	5.0 - 9.0% of mass 174	7.4 (8.8) 1
176	> 95% but < 101% of mass 174	80.4 (95.8) 1
177	5.0 - 9.0% of mass 176	6.0 (7.5) 2

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

This check applies to following Samples, MS, MSD, Blanks and Standards

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed
VSTD050	VSTD050	U61814.D	18-Jun-2024 15:51
VLCSW-240618	VLCSW-240618	U61815.D	18-Jun-2024 16:34
VBLKW-240618	VBLKW-240618	U61818.D	18-Jun-2024 17:38
ZZZZZZMS	HS24060379-09MS	U61831.D	18-Jun-2024 22:21
ZZZZZZMSD	HS24060379-09MSD	U61832.D	18-Jun-2024 22:42
MW8_060624	HS24060434-08	U61833.D	18-Jun-2024 23:04
VSTD050	VSTD050	U61843.D	19-Jun-2024 02:47

Report Date : 22-Jun-2024 13:19 Page 1

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUN-2024 11:43
End Cal Date : 12-JUN-2024 14:46
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\8260W.m
Last Edit : 22-Jun-2024 12:55 r.patel

Calibration File Names:
Level 1: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061203.D
Level 2: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061204.D
Level 3: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061205.D
Level 4: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061206.D
Level 5: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061207.D
Level 6: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061208.D
Level 7: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061209.D
Level 8: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061210.D
Level 9: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061211.D

Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
157 2-Methylnaphthalene	184 / 64642	563 / 149837	1586 / 339740	3232	8422	20582	LINR	0.06051	0.78218		0.99849	
2 Dichlorodifluoromethane	1093 / 66335	1352 / 128579	1833 / 270113	5732	13733	26161	LINR	-0.00418	0.51249		0.99974	
182 Isobutylene	+++++ / 9733	+++++ / 18786	162 / 38824	831	1565	3849	LINR	0.00150	0.07410		0.99960	<-

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUN-2024 11:43
End Cal Date : 12-JUN-2024 14:46
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\8260W.m
Last Edit : 22-Jun-2024 12:55 r.patel

Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
177 Dimethyl ether	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
3 Chloromethane	2074 / 100068	3170 / 194087	5007 / 406492	9757	20504	40922	LINR	-0.01534	0.76892		0.99979	
4 Propionitrile	1322 / 85378	2802 / 165344	5206 / 346124	7847	16213	33066	LINR	-0.10521	0.06556		0.99976	
5 Vinyl Chloride	1472 / 86543	2099 / 171559	3135 / 361844	8287	17554	35249	LINR	-0.00300	0.68542		0.99980	
178 Ethylene oxide	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
6 Bromomethane	1396 / 55461	1923 / 104925	3109 / 195540	6316	11794	23141	QUAD	-0.01420	2.13923	0.37368	0.99998	
7 Chloroethane	1072 / 52636	1585 / 103518	2127 / 218152	5207	11009	21226	LINR	-0.00828	0.41272		0.99979	

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUN-2024 11:43
End Cal Date : 12-JUN-2024 14:46
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\8260W.m
Last Edit : 22-Jun-2024 12:55 r.patel

Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
8 Trichlorofluoromethane	1621	1839	3166	10035	22220	45662						
	115735	227811	482183				LINR	0.00498	0.91528		0.99977	
9 Acrolein	+++++	61.00000	140	294	688	1590						
	4959	9979	18902				QUAD	0.08914	45.59159	64.42059	0.99950	<-
10 Acetone	1457	1845	3461	5792	10759	19214						
	44569	85875	167976				LINR	-0.12807	0.15910		0.99924	
11 1,1-Dichloroethene	0.59512	0.48741	0.35359	0.42682	0.49564	0.49098						
	0.49668	0.48823	0.50305				AVRG		0.48195		13.39149	
12 Isobutyl Alcohol	4080	7035	12752	20180	39559	83712						
	198746	394187	822489				LINR	-0.31901	0.07776		0.99986	
13 Acetonitrile	1111	2062	5409	8747	17600	35284						
	89228	174954	370823				LINR	-0.04859	0.07015		0.99971	
14 Allyl Chloride	2895	5788	11778	18967	34793	74522						
	193266	374963	786860				LINR	-0.00795	1.49072		0.99974	

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUN-2024 11:43
End Cal Date : 12-JUN-2024 14:46
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\8260W.m
Last Edit : 22-Jun-2024 12:55 r.patel

Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
15 Iodomethane	229 89328	487 215220	1257 520851	3777	10595	28182	QUAD	0.10193	2.64391	-0.16539	0.99920	<-
16 Acrylonitrile	660 42984	1134 84159	2373 176557	3922	7540	17124	LINR	-0.00882	0.16741		0.99978	
17 Methylene Chloride	2439 72694	3129 143145	4884 298034	8581	15055	30059	LINR	-0.02548	0.56210		0.99988	
18 Methyl tert-butyl ether	2199 160670	4268 325589	9247 711970	14360	28475	60849	LINR	0.01854	1.34571		0.99904	
19 Carbon Disulfide	6927 392943	9785 780378	15355 1673748	35818	78771	157714	LINR	0.00788	1.58272		0.99958	
20 trans-1,2-Dichloroethene	0.67074 0.51614	0.59101 0.50253	0.51680 0.51921	0.48500	0.50065	0.51202	AVRG		0.53490		11.01292	
21 Vinyl Acetate	1782 67633	2723 137107	5007 285944	8177	15657	26974	LINR	-0.03904	0.26967		0.99982	

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUN-2024 11:43
End Cal Date : 12-JUN-2024 14:46
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\8260W.m
Last Edit : 22-Jun-2024 12:55 r.patel

Compound	0.5000000 Level 1 50.0000 Level 7	1.0000 Level 2 100.0000 Level 8	2.0000 Level 3 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
22 1,1-Dichloroethane	2252 136347	3410 270479	6081 568496	12786	26028	54427	LINR	-0.00209	1.07778		0.99985
23 Chloroprene	1.21983 0.92010	1.03087 0.91487	0.79140 0.94578	0.82906	0.89064	0.90023	AVRG		0.93809		13.37813
24 2-Butanone	2105 55817	2837 109808	4968 236840	7043	12394	24892	LINR	-0.05534	0.22157		0.99919
25 Methacrylonitrile	1023 95842	1820 196612	4985 443834	9929	19313	40265	LINR	0.02267	0.83493		0.99795
26 2,2-Dichloropropane	1654 116989	2328 235614	3983 499422	9923	21711	45854	LINR	0.01006	0.94809		0.99978
27 cis-1,2-Dichloroethene	1278 73829	1923 148465	3811 313493	7198	14273	29226	LINR	0.00034	0.59375		0.99980
28 Chloroform	2578 133998	3649 266384	6529 556477	12716	25405	54121	LINR	-0.00573	1.05510		0.99989

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUN-2024 11:43
End Cal Date : 12-JUN-2024 14:46
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\8260W.m
Last Edit : 22-Jun-2024 12:55 r.patel

Compound	0.5000000 Level 1 50.0000 Level 7	1.0000 Level 2 100.0000 Level 8	2.0000 Level 3 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
29 Bromochloromethane	476 36515	1013 72145	1784 147403	3309	6945	14625	LINR	-0.01196	0.28045		0.99989
31 1,1,1-Trichloroethane	1701 116966	2209 235912	3666 498996	9862	22027	46096	LINR	0.00964	0.94757		0.99981
32 1,1-Dichloropropene	1918 101818	2608 202600	3678 430683	8873	18899	40307	LINR	0.00552	0.49923		0.99975
33 1,2-Dichloroethane	1842 113617	3321 223991	5862 466569	10763	22027	45019	LINR	-0.00807	0.54113		0.99988
34 Carbon Tetrachloride	1649 102107	2397 208133	3233 442439	8745	19330	39382	LINR	0.01312	0.51349		0.99976
37 Benzene	5601 271685	7825 542298	12786 1134370	26743	54343	109367	LINR	-0.00639	1.31438		0.99991
38 Trichloroethene	1116 71519	1844 142495	2891 299845	6363	13898	28788	LINR	-0.00008	0.34773		0.99986

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUN-2024 11:43
End Cal Date : 12-JUN-2024 14:46
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\8260W.m
Last Edit : 22-Jun-2024 12:55 r.patel

Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
39 Bromodichloromethane	1982 102850	2792 206546	5306 436473	9709	19931	40275	LINR	0.00105	0.50557		0.99981
40 Methyl Methacrylate	1119 68215	2255 129664	4000 265056	6961	13358	26965	LINR	-0.02617	0.50291		0.99966
41 2-Chloroethylvinyl ether	845 55772	1601 114619	2824 265387	4830	10150	21639	QUAD	-0.01478	7.83751	-1.08936	0.99987
42 1,2-Dichloropropane	1394 78317	2320 157219	3943 330429	7516	15568	31365	LINR	-0.00295	0.38276		0.99988
43 2-Nitropropane	364 21035	803 42166	1280 93821	2164	3921	8546	LINR	0.01175	0.17646		0.99849
44 Dibromomethane	739 44490	1232 88641	2361 187225	4269	8549	18165	LINR	-0.00305	0.21673		0.99981
45 4-Methyl-2-Pentanone	3013 143348	5173 274193	9217 587956	14553	28349	59237	LINR	-0.04780	0.35512		0.99947

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUN-2024 11:43
End Cal Date : 12-JUN-2024 14:46
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\8260W.m
Last Edit : 22-Jun-2024 12:55 r.patel

Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
46 cis-1,3-Dichloropropene	1985 111444	2939 227034	5638 494031	10102	20669	43881	LINR	0.01529	0.57095		0.99929
49 Ethyl Methacrylate	670 63036	2106 147894	2930 347139	6472	12386	24489	QUAD	0.00479	3.17573	-0.43708	0.99969
50 Toluene	5326 286735	7764 569573	13432 1184335	27240	56631	114618	LINR	-0.01691	1.44120		0.99973
51 trans-1,3-Dichloropropene	1985 111444	2939 227034	5638 494031	10102	20669	43881	LINR	0.01529	0.57095		0.99929
52 2-Hexanone	1898 97829	3164 196592	6350 408580	10165	19605	39097	LINR	-0.04097	0.24814		0.99983
53 1,1,2-Trichloroethane	1113 55834	1788 108669	3155 226781	5269	10863	22801	LINR	-0.02387	0.27544		0.99957
54 1,3-Dichloropropane	2330 115699	3554 226498	6405 473785	11372	22865	46447	LINR	-0.02157	0.57529		0.99967

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUN-2024 11:43
End Cal Date : 12-JUN-2024 14:46
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\8260W.m
Last Edit : 22-Jun-2024 12:55 r.patel

Compound	0.5000000 Level 1 50.0000 Level 7	1.0000 Level 2 100.0000 Level 8	2.0000 Level 3 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
55 Dibromochloromethane	1235 75592	2100 152411	3975 324738	6657	14217	30210	LINR	-0.00408	0.39421		0.99985
56 Tetrachloroethene	867 55200	1137 112904	1867 232209	4775	10566	22116	LINR	-0.00773	0.28376		0.99975
57 1,2-Dibromoethane	1275 52163	1851 101409	3262 220504	5796	11071	21812	LINR	-0.02033	0.26561		0.99952
58 1-Chlorohexane	2878 69519	3327 134896	4335 277125	7631	15803	29232	LINR	-0.03720	0.31973		0.99984
59 Chlorobenzene	3539 185207	5255 370792	9520 777930	18614	37090	74949	LINR	-0.01553	0.94465		0.99985
60 1,1,1,2-Tetrachloroethane	1160 68429	2007 137821	3184 295819	6203	12805	26714	LINR	-0.00040	0.35891		0.99981
61 Ethylbenzene	1538 95361	2344 193263	4421 405032	8642	18857	38647	LINR	-0.00919	0.49269		0.99989

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUN-2024 11:43
End Cal Date : 12-JUN-2024 14:46
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\8260W.m
Last Edit : 22-Jun-2024 12:55 r.patel

Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
62 m,p-Xylenes	4347 243196	6254 483615	10925 1021002	22915	48175	96983	LINR	-0.02220	0.62010		0.99981	
63 o-Xylene	1921 116668	3077 232496	5603 489577	11500	23155	47025	LINR	-0.01323	0.59459		0.99982	
64 Styrene	3179 194776	5325 392368	9482 832493	18457	37663	77439	LINR	-0.00650	1.01080		0.99988	
65 cis-1,4-Dichloro-2-butene	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
66 Bromoform	644 47726	1111 95800	2434 207700	4305	8762	18623	LINR	0.00347	0.25180		0.99970	
67 Isopropylbenzene	4616 296410	6936 592971	11370 1244948	26698	59794	119139	LINR	-0.00993	1.51449		0.99982	
68 1,1,2,2-Tetrachloroethane	1638 86043	2608 169960	5085 357305	8324	16494	34384	LINR	-0.03579	0.81751		0.99920	

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUN-2024 11:43
End Cal Date : 12-JUN-2024 14:46
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\8260W.m
Last Edit : 22-Jun-2024 12:55 r.patel

Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
71 1,2,3-Trichloropropane	1970 92496	2930 182982	5811 388904	9154	17513	38498	LINR	-0.03588	0.88752		0.99927
72 trans-1,4-Dichloro-2-butene	204 19015	604 38646	1085 84582	1825	3844	7571	LINR	0.00246	0.10224		0.99960
73 n-Propylbenzene	5281 362847	8454 733028	14008 1539134	31484	69205	142065	LINR	-0.02137	3.53453		0.99942
74 Bromobenzene	1408 80532	2312 161244	4190 340627	7622	15846	31875	LINR	-0.02891	0.77951		0.99943
75 1,3,5-Trimethylbenzene	4027 248908	6275 513912	10479 1097303	21967	48385	100061	LINR	-0.01498	2.51198		0.99974
76 2-Chlorotoluene	3845 221871	5960 450703	10626 945763	20862	43088	89803	LINR	-0.02729	2.16748		0.99951
77 4-Chlorotoluene	4518 260307	6656 528982	12467 1107997	24474	50748	103804	LINR	-0.02676	2.54060		0.99950

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUN-2024 11:43
End Cal Date : 12-JUN-2024 14:46
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\8260W.m
Last Edit : 22-Jun-2024 12:55 r.patel

Compound	0.5000000 Level 1 50.0000 Level 7	1.0000 Level 2 100.0000 Level 8	2.0000 Level 3 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
78 tert-Butylbenzene	3172 211821	4823 434310	7955 908367	18573	42861	86493	LINR	-0.02367	2.08522		0.99951	
79 1,2,4-Trimethylbenzene	4065 254417	6769 518063	11212 1094080	23050	48879	100023	LINR	-0.02092	2.50794		0.99959	
80 Pentachloroethane	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
81 sec-Butylbenzene	3718 298413	6172 603134	9992 1265216	25390	57424	117646	LINR	-0.02003	2.90772		0.99938	
82 p-Isopropyltoluene	3.71794 2.77525	3.37393 2.58505	2.68599 2.56822	2.53810	2.66184	2.73274	AVRG		2.84879		14.45364	
83 1,3-Dichlorobenzene	2490 143335	3904 293977	6890 619265	12753	26990	56080	LINR	-0.01997	1.42013		0.99964	
84 1,4-Dichlorobenzene	2458 147752	4079 304950	7277 639034	13852	29125	57142	LINR	-0.02202	1.46573		0.99968	

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUN-2024 11:43
End Cal Date : 12-JUN-2024 14:46
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\8260W.m
Last Edit : 22-Jun-2024 12:55 r.patel

Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
85 bis(2-Chloro-isopropyl)ether	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
	+++++	+++++	+++++									
86 Benzyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
	+++++	+++++	+++++									
87 n-Butylbenzene	3.19203	3.05169	2.23935	2.35938	2.46421	2.54788	AVRG		2.58151		12.74974	
	2.63538	2.39071	2.35297									
88 1,2-Dichlorobenzene	2401	3749	6840	12779	25590	54117	LINR	-0.02065	1.37903		0.99961	
	139489	287218	600569									
89 1,2-Dibromo-3-Chloropropane	0.14032	0.17307	0.16969	0.14839	0.13488	0.14350	AVRG		0.14813		9.39301	
	0.14718	0.13752	0.13862									
90 1,2,4-Trichlorobenzene	1060	1918	3484	6547	14853	31742	LINR	0.00207	0.88798		0.99991	
	84392	182539	385944									
91 Hexachlorobutadiene	0.36083	0.36303	0.36571	0.38246	0.41684	0.44951	AVRG		0.40655		9.48117	
	0.45426	0.43079	0.43551									

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUN-2024 11:43
End Cal Date : 12-JUN-2024 14:46
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\8260W.m
Last Edit : 22-Jun-2024 12:55 r.patel

Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
92 Naphthalene	2539 188539	4251 404214	7916 848291	14800	31957	69635	 LINR	 -0.00041	 1.95433		 0.99981	
93 1,2,3-Trichlorobenzene	874 66724	1472 145097	2374 308615	5273	11945	24650	 LINR	 0.00618	 0.70979		 0.99992	
130 Ethyl Acetate	8116 413703	12937 811897	25416 1804860	39063	76520	165195	 LINR	 0.00997	 3.39632		 0.99860	
131 Methyl Acrylate	870 67491	2257 128500	4202 272963	6677	12697	28780	 LINR	 -0.01611	 0.51520		 0.99946	
132 n-Butanol	202 41434	460 84786	1996 176274	4168	8353	17130	 LINR	 0.00577	 0.01674		 0.99994	
133 Ethyl Acrylate	1.24449 1.37144	1.57517 1.32725	1.79407 1.37477	1.34499	1.33728	1.37412	 AVRG		 1.41595		 11.77123	
134 Cyclohexanone	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	 AVRG		 0.000e+000		 0.000e+000	<-

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUN-2024 11:43
End Cal Date : 12-JUN-2024 14:46
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\8260W.m
Last Edit : 22-Jun-2024 12:55 r.patel

Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
135 1,4-Dioxane	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
136 n-Hexane	630 / 71474	889 / 143496	1262 / 309832	4913	13421	28414	LINR	0.02125	0.58823		0.99951	
137 n-Pentane	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
138 Freon TF	660 / 64931	631 / 128860	1434 / 273013	4806	12429	25439	LINR	0.01212	0.51915		0.99977	
146 Methyl Acetate	1098 / 48593	1741 / 99106	3590 / 205889	5072	10260	20757	LINR	-0.01608	0.38914		0.99988	
147 Methylcyclohexane	580 / 100294	1103 / 197270	3793 / 429412	8440	17217	37575	LINR	0.02008	0.49778		0.99937	
149 Isopropyl alcohol	1271 / 81009	2719 / 152531	4734 / 337246	8371	15178	32395	LINR	-0.04183	0.03171		0.99871	

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUN-2024 11:43
End Cal Date : 12-JUN-2024 14:46
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\8260W.m
Last Edit : 22-Jun-2024 12:55 r.patel

Compound	0.5000000 Level 1 50.0000 Level 7	1.0000 Level 2 100.0000 Level 8	2.0000 Level 3 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
152 Amyl alcohol	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
150 Allyl alcohol	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
151 4-Methyl-2-pentanol	6970 352297	14520 740664	22526 1681264	44355	80928	156868	LINR	0.06738	0.10079		0.99841	
148 Tert-butyl alcohol	1899 89417	3194 166587	5655 388459	9734	18548	38825	QUAD	-0.86423	32.43804	-1.70555	0.99888	
139 Diethyl ether	418 42766	997 84057	2216 180092	3375	7639	16841	LINR	0.00723	0.34117		0.99956	
140 1,3-Butadiene	396 37900	599 78720	874 164372	2741	7078	14952	LINR	0.01640	0.31332		0.99991	
141 Cyclohexane	+++++ 103229	3616 205871	4809 432114	10009	21416	40963	LINR	-0.00598	0.81819		0.99985	

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUN-2024 11:43
End Cal Date : 12-JUN-2024 14:46
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\8260W.m
Last Edit : 22-Jun-2024 12:55 r.patel

Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
142 Tetrahydrofuran	212 21782	750 43971	1310 94446	1795	3784	9203	LINR	0.01360	0.08931		0.99942	
143 1-Chlorobutane	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
144 Nitrobenzene	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
145 alpha-Methylstyrene	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
153 Tetraethyl lead	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
154 2,3-Dichlorobutane	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
155 2-Pentanone	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUN-2024 11:43
End Cal Date : 12-JUN-2024 14:46
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\8260W.m
Last Edit : 22-Jun-2024 12:55 r.patel

Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
156 Diisopropyl ether	2859 227369	5587 445729	11883 948775	19071	39998	89049	LINR	0.00379	1.79800		0.99964	
158 Propylene oxide	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
159 Dichlorofluoromethane	1.11791 0.96231	1.17055 0.91758	1.28939 0.93870	0.98192	0.94351	0.97276	AVRG		1.03274		12.50031	
160 Epichlorohydrin	102 16160	383 31938	854 74228	1450	2913	5554	QUAD	-0.01585	55.50862	-26.37268	0.99954	
161 Butyl acrylate	2462 154014	4551 316497	8919 681083	13964	26791	57895	LINR	0.00704	0.82685		0.99974	
162 3-Methyl-1-butanol	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
163 Dicyclopentadiene	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUN-2024 11:43
End Cal Date : 12-JUN-2024 14:46
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\8260W.m
Last Edit : 22-Jun-2024 12:55 r.patel

Compound	0.5000000 Level 1 50.0000 Level 7	1.0000 Level 2 100.0000 Level 8	2.0000 Level 3 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
165 4-Vinyl-1-cyclohexene	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
166 1,2,3-Trimethylbenzene	3306 232553	5692 455398	12970 961261	21630	41781	89937	LINR	-0.02881	2.20315		0.99905	
167 Ethanol	160 14655	699 26045	1128 50310	1664	3235	5544	LINR	-1.41357	0.00479		0.99731	
168 Butyl methacrylate	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
169 1-Propanol	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
170 1,3,5-Trichlorobenzene	+++++ +++++	+++++ +++++	+++++ 0.88987	+++++	+++++	+++++	AVRG		0.88987		0.000e+000	<-
171 1-Methylnaphthalene	153 52475	569 120423	1519 274483	3073	7742	17884	LINR	0.05284	0.63002		0.99855	

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUN-2024 11:43
End Cal Date : 12-JUN-2024 14:46
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\8260W.m
Last Edit : 22-Jun-2024 12:55 r.patel

Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
172 tert-Butyl formate	1899 89417	3268 166587	6008 388459	9734	18548	38825	QUAD	-0.08883	3.24769	-0.17161	0.99889	
173 3,3-Dimethyl-1-butanol	952 86895	3401 199514	5907 477501	8986	18947	34477	QUAD	-0.19296	43.92036	-4.06326	0.99988	
174 tert-Amyl methyl ether	3192 176854	5441 344051	11166 773133	17818	33756	68017	QUAD	-0.02222	0.78239	-0.01674	0.99965	
175 tert-Butyl ethyl ether	2679 188058	5191 378160	10850 837966	17239	33998	73138	QUAD	-0.01109	0.71076	-0.01284	0.99985	
176 tert-Amyl alcohol	1987 89002	3133 157877	5627 341276	11946	22327	35788	LINR	-0.85270	0.03194		0.99848	
179 Hexachloroethane	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
180 2-Furfural	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUN-2024 11:43
End Cal Date : 12-JUN-2024 14:46
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\8260W.m
Last Edit : 22-Jun-2024 12:55 r.patel

Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
183 Isopropyl Acetate	4080 / 198746	7035 / 394187	12752 / 811507	20180	39559	83712	LINR	-0.01982	0.94010		0.99990	
184 n-Amyl acetate	2963 / 138814	4598 / 297368	8186 / 663193	13889	26666	54713	LINR	0.01885	0.80082		0.99897	
185 Acetaldehyde	4899 / 59293	8787 / 102104	11092 / 168802	18333	27449	36006	QUAD	-0.54031	6.65514	4.86578	0.99818	<-
M 94 1,2-Dichloroethylene (total)	2094 / 138091	3315 / 277047	6284 / 586128	13017	26565	54689	LINR	0.00558	0.55535		0.99979	
M 95 Xylenes (total)	6268 / 359864	9331 / 716111	16528 / 1510579	34415	71330	144008	LINR	-0.00649	0.58322		0.99984	
$ 30 Dibromofluoromethane	1653 / 68008	2282 / 130301	4300 / 281674	6860	13222	27328	LINR	-0.00889	0.53045		0.99930	
$ 35 1,2-Dichloroethane-d4	2754 / 88709	3202 / 172280	5824 / 367451	9601	18104	36179	LINR	-0.01585	0.69196		0.99957	

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUN-2024 11:43
End Cal Date : 12-JUN-2024 14:46
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\8260W.m
Last Edit : 22-Jun-2024 12:55 r.patel

Compound	0.5000000 Level 1	1.0000 Level 2	2.0000 Level 3	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	50.0000 Level 7	100.0000 Level 8	200.0000 Level 9								
$ 48 Toluene-d8	+++++ 242880	9737 476337	15674 1005869	25676	50368	96641	LINR	-0.02601	1.21643		0.99975
$ 69 4-Bromofluorobenzene	+++++ 95402	6716 184164	8132 392522	11003	20440	38666	LINR	-0.04204	0.47152		0.99960

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUN-2024 11:43
End Cal Date : 12-JUN-2024 14:46
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE

Method file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\8260W.m
Last Edit : 22-Jun-2024 12:55 r.patel

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

Report Date : 15-Jul-2024 09:12 Page 1

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUN-2024 11:43
End Cal Date : 15-JUN-2024 17:04
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\8260W.m
Last Edit : 15-Jul-2024 08:40 s.zaid

Calibration File Names:
Level 1: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061502.D
Level 2: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061503.D
Level 3: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061504.D
Level 4: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061505.D
Level 5: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061506.D
Level 6: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061507.D
Level 7: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061508.D
Level 8: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061509.D
Level 9: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061510.D

Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
157 2-Methylnaphthalene	0.69108	0.80544	0.86280	0.71767	0.61663	0.71651						
	0.82585	0.83820	0.95150				AVRG		0.78063		13.19769	
2 Dichlorodifluoromethane	617	945	4360	7225	14638	28839						
	67807	134254	292167				LINR	-0.00709	0.52639		0.99949	
182 Isobutylene	+++++	+++++	144	901	1722	4122						
	10572	22250	46322				LINR	0.02287	0.08485		0.99993	<-

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUN-2024 11:43
End Cal Date : 15-JUN-2024 17:04
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\8260W.m
Last Edit : 15-Jul-2024 08:40 s.zaid

Compound	0.5000000 Level 1 50.0000 Level 7	1.0000 Level 2 100.0000 Level 8	2.0000 Level 3 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
177 Dimethyl ether	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
3 Chloromethane	1173 99995	2511 196571	6755 419418	11605	22083	41944	LINR	-0.01963	0.75600		0.99975	
4 Propionitrile	1567 88867	1953 178969	5593 364385	8704	18049	35353	LINR	-0.19627	0.06630		0.99980	
5 Vinyl Chloride	920 89994	1452 178644	5443 390540	9844	19207	36777	LINR	-0.00273	0.70364		0.99949	
178 Ethylene oxide	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
6 Bromomethane	676 49751	1490 98215	3738 205045	5926	10679	20870	LINR	-0.02778	0.37035		0.99986	
7 Chloroethane	555 55213	994 108971	3631 235748	6277	11324	22690	LINR	-0.00831	0.42505		0.99963	

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUN-2024 11:43
End Cal Date : 15-JUN-2024 17:04
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\8260W.m
Last Edit : 15-Jul-2024 08:40 s.zaid

Compound	0.5000000 Level 1 50.0000 Level 7	1.0000 Level 2 100.0000 Level 8	2.0000 Level 3 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
8 Trichlorofluoromethane	866 118069	1387 232452	6842 502365	13237	24641	48951	LINR	-0.00721	0.90654		0.99963	
9 Acrolein	+++++ 0.01490	+++++ 0.01610	+++++ 0.01244	0.01286	0.01449	0.01373	AVRG		0.01409		9.63734	<-
10 Acetone	1666 46665	2175 87964	4581 183152	6604	10572	20213	LINR	-0.11951	0.16421		0.99960	
11 1,1-Dichloroethene	512 66065	872 130927	3570 285852	6851	13278	26084	LINR	0.00313	0.51609		0.99957	
12 Isobutyl Alcohol	3890 215753	5734 430883	13006 902069	23318	45161	89796	LINR	-0.37263	0.08160		0.99993	
13 Acetonitrile	1925 98067	2072 201548	4734 422464	10962	20967	42483	LINR	-0.12656	0.07648		0.99989	
14 Allyl Chloride	4145 208497	4733 421791	12586 869165	21819	42736	86958	LINR	-0.01918	1.57717		0.99990	

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUN-2024 11:43
End Cal Date : 15-JUN-2024 17:04
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\8260W.m
Last Edit : 15-Jul-2024 08:40 s.zaid

Compound	0.5000000 Level 1 50.0000 Level 7	1.0000 Level 2 100.0000 Level 8	2.0000 Level 3 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
15 Iodomethane	618 160800	1727 331334	6420 752080	13007	27400	58277	LINR	0.07694	0.67992		0.99854
16 Acrylonitrile	729 46177	891 92283	2570 191487	3482	8583	19099	LINR	-0.01852	0.17413		0.99980
17 Methylene Chloride	2072 78686	3218 150347	5964 316697	9761	16881	32051	LINR	-0.03625	0.57005		0.99977
18 Methyl tert-butyl ether	3223 173468	3682 369312	9601 789645	18018	35843	71378	LINR	0.00577	1.42889		0.99969
19 Carbon Disulfide	4375 403665	7853 802720	24820 1741724	45001	83855	166994	LINR	-0.01155	1.56991		0.99961
20 trans-1,2-Dichloroethene	436 69367	1186 136803	3881 294156	7190	14138	28094	LINR	-0.00539	0.53158		0.99975
21 Vinyl Acetate	1101 77286	2448 142907	5183 303449	9154	15481	31984	LINR	-0.06747	0.27342		0.99935

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUN-2024 11:43
End Cal Date : 15-JUN-2024 17:04
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\8260W.m
Last Edit : 15-Jul-2024 08:40 s.zaid

Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
22 1,1-Dichloroethane	1.21092	1.14931	1.45623	1.18246	1.16110	1.13194					
	1.12152	1.07050	1.09514				AVRG		1.17546		9.66710
23 Chloroprene	1169	1900	6709	12691	24627	48530					
	119116	237619	517186				LINR	-0.00067	0.93307		0.99959
24 2-Butanone	1922	2851	5001	8477	13788	26703					
	61852	120765	252867				LINR	-0.08560	0.22722		0.99984
25 Methacrylonitrile	+++++	0.66524	0.76365	0.89784	0.78089	0.88953					
	0.82772	0.95634	0.88542				AVRG		0.83333		11.20739
26 2,2-Dichloropropane	1.03839	0.82157	1.33791	1.01510	0.91934	0.98863					
	0.96276	0.93500	0.96127				AVRG		0.99777		14.23657
27 cis-1,2-Dichloroethene	581	1560	4389	8496	15946	30961					
	78589	153510	326517				LINR	-0.01063	0.59067		0.99983
28 Chloroform	1624	3399	8279	14700	28858	56287					
	140096	275001	578887				LINR	-0.01599	1.04769		0.99988

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUN-2024 11:43
End Cal Date : 15-JUN-2024 17:04
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\8260W.m
Last Edit : 15-Jul-2024 08:40 s.zaid

Compound	0.5000000 Level 1 50.0000 Level 7	1.0000 Level 2 100.0000 Level 8	2.0000 Level 3 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
29 Bromochloromethane	252 38434	808 74665	2129 159282	3897	7632	14921	LINR	-0.00826	0.28823		0.99980
31 1,1,1-Trichloroethane	1107 121911	1878 240720	6669 518715	11751	24009	47625	LINR	-0.00013	0.93827		0.99976
32 1,1-Dichloropropene	1117 104921	1749 204839	6316 449030	11612	20893	42007	LINR	0.00249	0.49163		0.99902
33 1,2-Dichloroethane	1258 119958	2750 232210	7132 487787	12357	23794	44715	LINR	-0.00873	0.53702		0.99976
34 Carbon Tetrachloride	1128 103211	1790 207646	5848 461014	10309	19473	39998	LINR	0.01847	0.50529		0.99865
37 Benzene	3137 286859	6318 566674	17570 1202917	31340	60291	118343	LINR	-0.00969	1.32027		0.99966
38 Trichloroethene	802 74816	1475 144899	4355 313152	8145	14480	29895	LINR	-0.00289	0.34340		0.99935

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUN-2024 11:43
End Cal Date : 15-JUN-2024 17:04
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\8260W.m
Last Edit : 15-Jul-2024 08:40 s.zaid

Compound	0.5000000 Level 1 50.0000 Level 7	1.0000 Level 2 100.0000 Level 8	2.0000 Level 3 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
39 Bromodichloromethane	0.59634 0.50857	0.58020 0.49171	0.74995 0.51286	0.54640	0.51023	0.51364	AVRG		0.55666		14.49055
40 Methyl Methacrylate	+++++ 67573	1742 141838	4678 284906	8143	15048	30778	LINR	-0.03545	0.51678		0.99955
41 2-Chloroethylvinyl ether	758 60694	1519 122206	3297 285285	5890	11392	23020	QUAD	-0.03010	7.77780	-1.12122	0.99982
42 1,2-Dichloropropane	1024 83636	1795 162499	5229 346536	8231	17398	33533	LINR	-0.00851	0.38036		0.99958
43 2-Nitropropane	450 21914	593 45563	1657 100260	2378	4212	9001	LINR	0.00688	0.18055		0.99915
44 Dibromomethane	452 47163	1021 93384	2780 199194	4876	9510	18203	LINR	-0.00085	0.21891		0.99964
45 4-Methyl-2-Pentanone	2130 154085	4091 294844	9850 630364	18025	32018	62229	LINR	-0.03700	0.36732		0.99948

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUN-2024 11:43
End Cal Date : 15-JUN-2024 17:04
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\8260W.m
Last Edit : 15-Jul-2024 08:40 s.zaid

Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
46 cis-1,3-Dichloropropene	1394 114066	2713 231041	6773 504454	12123	22745	45737	LINR	0.00852	0.55289		0.99909
49 Ethyl Methacrylate	+++++ 92940	2257 206010	5298 479491	8382	17396	34541	QUAD	0.00067	2.36615	-0.22787	0.99990
50 Toluene	3659 300469	6541 584385	18783 1248377	32403	62276	122540	LINR	-0.01263	1.45680		0.99958
51 trans-1,3-Dichloropropene	1394 114066	2713 231041	6773 504454	12123	22745	45737	LINR	0.00852	0.55289		0.99909
52 2-Hexanone	1458 107938	3084 205316	6816 418635	11468	21713	41660	LINR	-0.05968	0.24579		0.99941
53 1,1,2-Trichloroethane	636 58061	1325 111437	3483 232912	6253	11359	22410	LINR	-0.01715	0.27286		0.99963
54 1,3-Dichloropropane	1496 122388	3036 237393	7570 502687	13167	25023	49217	LINR	-0.01523	0.58729		0.99966

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUN-2024 11:43
End Cal Date : 15-JUN-2024 17:04
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\8260W.m
Last Edit : 15-Jul-2024 08:40 s.zaid

Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
55 Dibromochloromethane	0.40306 0.39770	0.43462 0.37826	0.52948 0.39417	0.39306	0.37329	0.38218	AVRG		0.40954		11.81992
56 Tetrachloroethene	704 57283	913 110367	3466 242940	6024	11042	23595	LINR	-0.00157	0.28285		0.99901
57 1,2-Dibromoethane	715 59797	1535 116739	3930 248060	6959	12804	24851	LINR	-0.01826	0.28926		0.99963
58 1-Chlorohexane	+++++ 76561	3458 141700	6865 303981	9909	17306	32894	LINR	-0.04695	0.32996		0.99908
59 Chlorobenzene	2223 196413	4359 383778	12490 816634	22124	39917	80596	LINR	-0.01347	0.95332		0.99964
60 1,1,1,2-Tetrachloroethane	736 68615	1575 135220	4146 300759	7002	13676	26330	LINR	0.00929	0.35011		0.99885
61 Ethylbenzene	957 103348	1961 195525	6293 424071	11221	20636	41428	LINR	-0.01060	0.49426		0.99920

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUN-2024 11:43
End Cal Date : 15-JUN-2024 17:04
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\8260W.m
Last Edit : 15-Jul-2024 08:40 s.zaid

Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
62 m,p-Xylenes	3068 254041	5521 496095	15967 1059701	27245	52278	102849	LINR	-0.02201	0.61848		0.99961	
63 o-Xylene	1283 124111	2749 238580	7810 509699	13725	24914	50923	LINR	-0.01490	0.59475		0.99949	
64 Styrene	2460 218355	4857 421929	13408 903128	23337	44716	88577	LINR	-0.01235	1.05388		0.99953	
65 cis-1,4-Dichloro-2-butene	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
66 Bromoform	0.25273 0.25295	0.26607 0.23840	0.33208 0.25531	0.24812	0.23923	0.23922	AVRG		0.25823		11.29023	
67 Isopropylbenzene	3442 317579	6133 614244	20031 1334335	33644	63249	129852	LINR	-0.00645	1.55503		0.99930	
68 1,1,2,2-Tetrachloroethane	1141 89714	2231 173120	5353 364431	9701	18424	34557	LINR	-0.01538	0.82288		0.99909	

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUN-2024 11:43
End Cal Date : 15-JUN-2024 17:04
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\8260W.m
Last Edit : 15-Jul-2024 08:40 s.zaid

Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
71 1,2,3-Trichloropropane	1285 100875	2623 194918	6201 415838	11078	20796	39172	LINR	-0.01202	0.93728		0.99882
72 trans-1,4-Dichloro-2-butene	151 21969	625 42273	1262 93967	2178	4519	8453	LINR	0.00346	0.10933		0.99882
73 n-Propylbenzene	4037 388200	7684 759621	23920 1657867	40578	76526	156297	LINR	0.00029	3.73284		0.99823
74 Bromobenzene	883 85404	1940 165119	5157 359110	8991	17462	33759	LINR	-0.00411	0.80841		0.99830
75 1,3,5-Trimethylbenzene	3399 275793	5830 543342	17230 1199205	29207	55087	111094	LINR	0.00420	2.69669		0.99786
76 2-Chlorotoluene	2704 238653	5439 465237	15070 995846	25653	48163	96301	LINR	-0.00944	2.24441		0.99876
77 4-Chlorotoluene	3264 282358	6290 546420	17334 1184483	30030	56243	112941	LINR	-0.00538	2.66710		0.99839

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUN-2024 11:43
End Cal Date : 15-JUN-2024 17:04
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\8260W.m
Last Edit : 15-Jul-2024 08:40 s.zaid

Compound	0.5000000 Level 1 50.0000 Level 7	1.0000 Level 2 100.0000 Level 8	2.0000 Level 3 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
78 tert-Butylbenzene	2356 231832	4454 452739	13885 969754	24227	44107	93334	LINR	-0.00490	2.18831		0.99876	
79 1,2,4-Trimethylbenzene	3450 278876	5961 540224	16705 1174459	28869	54690	111249	LINR	-0.00278	2.64501		0.99832	
80 Pentachloroethane	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
81 sec-Butylbenzene	3154 317082	5578 620159	18544 1357880	32307	61000	126981	LINR	0.00375	3.05888		0.99815	
82 p-Isopropyltoluene	2821 285951	5195 560605	17126 1222531	28883	55271	112629	LINR	0.00355	2.75536		0.99831	
83 1,3-Dichlorobenzene	1745 156769	3358 306521	9329 661530	16526	30823	61913	LINR	-0.00267	1.49126		0.99860	
84 1,4-Dichlorobenzene	1786 162202	3741 313580	9700 669697	17198	31726	63976	LINR	-0.00895	1.51076		0.99879	

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUN-2024 11:43
End Cal Date : 15-JUN-2024 17:04
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\8260W.m
Last Edit : 15-Jul-2024 08:40 s.zaid

Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
85 bis(2-Chloro-isopropyl)ether	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
86 Benzyl Chloride	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
87 n-Butylbenzene	3261 / 271859	4888 / 528102	16170 / 1137513	26108	50748	106249	LINR	-0.00055	2.56778		0.99863	
88 1,2-Dichlorobenzene	1679 / 152096	3305 / 298497	8741 / 632693	14740	29096	58851	LINR	-0.00406	1.43049		0.99908	
89 1,2-Dibromo-3-Chloropropane	+++++ / 0.14275	0.15700 / 0.13916	0.19470 / 0.14618	0.13353	0.13240	0.13638	AVRG		0.14776		13.91271	<-
90 1,2,4-Trichlorobenzene	901 / 97036	2045 / 198441	5210 / 425707	9039	16917	35263	LINR	0.01636	0.96419		0.99890	
91 Hexachlorobutadiene	279 / 46780	674 / 94036	2304 / 203423	4213	8542	17891	LINR	0.01446	0.46021		0.99871	

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUN-2024 11:43
End Cal Date : 15-JUN-2024 17:04
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\8260W.m
Last Edit : 15-Jul-2024 08:40 s.zaid

Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
92 Naphthalene	2.26780	2.34112	2.82925	2.01805	1.80400	1.93540						
	2.05350	1.94901	2.10538				AVRG		2.14483		14.24156	
93 1,2,3-Trichlorobenzene	0.75487	0.87177	1.02769	0.74847	0.65808	0.72434						
	0.74454	0.71673	0.78024				AVRG		0.78075		13.92919	
130 Ethyl Acetate	6119	10732	25930	44597	85403	170533						
	443002	897857	1931046				LINR	0.00284	3.49272		0.99978	
131 Methyl Acrylate	+++++	1547	4529	7951	15184	29836						
	70420	144382	294954				LINR	-0.02575	0.53484		0.99986	
132 n-Butanol	+++++	+++++	0.01372	0.01604	0.01587	0.01726						
	0.01565	0.01655	0.01637				AVRG		0.01592		6.93025	
133 Ethyl Acrylate	+++++	1.23195	1.55978	1.45553	1.37915	1.42992						
	1.40016	1.40699	1.39140				AVRG		1.40686		6.46621	
134 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUN-2024 11:43
End Cal Date : 15-JUN-2024 17:04
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\8260W.m
Last Edit : 15-Jul-2024 08:40 s.zaid

Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
135 1,4-Dioxane	203 10767	143 21568	722 43691	1050	2043	3941	LINR	-0.29422	0.00399		0.99964	
136 n-Hexane	529 85930	594 156768	4304 360049	7851	14466	31606	LINR	0.01459	0.64821		0.99806	
137 n-Pentane	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
138 Freon TF	380 66163	573 128005	3581 284404	6709	12911	26055	LINR	0.00598	0.51267		0.99918	
146 Methyl Acetate	+++++ 53208	346 102095	3471 219776	5521	12109	21764	LINR	-0.01879	0.39595		0.99951	
147 Methylcyclohexane	+++++ 100708	447 215181	1703 469723	9878	18627	39114	LINR	0.04053	0.51921		0.99903	
149 Isopropyl alcohol	+++++ 67928	1689 129745	4553 271337	7128	12916	28470	LINR	-0.60968	0.02451		0.99960	

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUN-2024 11:43
End Cal Date : 15-JUN-2024 17:04
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\8260W.m
Last Edit : 15-Jul-2024 08:40 s.zaid

Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
152 Amyl alcohol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
150 Allyl alcohol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
151 4-Methyl-2-pentanol	8638	10862	33216	52716	105868	205136						
	510749	1084199	2215844				LINR	-0.12697	0.13028		0.99994	
148 Tert-butyl alcohol	+++++	0.04214	0.05619	0.03626	0.03419	0.03518						
	0.03106	0.02963	0.03056				AVRG		0.03690		23.74233	<-
139 Diethyl ether	+++++	0.39287	0.45181	0.32867	0.29979	0.33019						
	0.36581	0.37488	0.37202				AVRG		0.36451		12.80147	
140 1,3-Butadiene	214	586	1902	3822	7850	16653						
	40631	81637	182119				LINR	0.01477	0.32843		0.99909	
141 Cyclohexane	+++++	3665	9369	14123	23825	46236						
	113099	222012	489133				LINR	-0.01317	0.87711		0.99918	

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUN-2024 11:43
End Cal Date : 15-JUN-2024 17:04
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\8260W.m
Last Edit : 15-Jul-2024 08:40 s.zaid

Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
142 Tetrahydrofuran	337 22991	607 45899	1504 105694	2220	4755	9492	LINR	0.02951	0.09474		0.99791	
143 1-Chlorobutane	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
144 Nitrobenzene	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
145 alpha-Methylstyrene	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
153 Tetraethyl lead	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
154 2,3-Dichlorobutane	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
155 2-Pentanone	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUN-2024 11:43
End Cal Date : 15-JUN-2024 17:04
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\8260W.m
Last Edit : 15-Jul-2024 08:40 s.zaid

Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
156 Diisopropyl ether	+++++ / 1.92423	1.90086 / 1.93787	2.54491 / 1.91206	1.91461	1.82740	1.92176	AVRG		1.98546		11.51048	
158 Propylene oxide	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
159 Dichlorofluoromethane	+++++ / 0.98956	1.01618 / 0.99103	1.17097 / 0.97287	1.09930	1.03342	1.05637	AVRG		1.04121		6.38965	
160 Epichlorohydrin	109 / 18432	318 / 37467	1017 / 79218	1794	3458	7172	LINR	0.02686	0.02183		0.99978	
161 Butyl acrylate	+++++ / 163025	3946 / 352204	9733 / 724805	16083	32123	64266	LINR	0.00497	0.85336		0.99988	
162 3-Methyl-1-butanol	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
163 Dicyclopentadiene	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUN-2024 11:43
End Cal Date : 15-JUN-2024 17:04
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\8260W.m
Last Edit : 15-Jul-2024 08:40 s.zaid

Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
165 4-Vinyl-1-cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
166 1,2,3-Trimethylbenzene	+++++	3.15153	3.16499	2.55809	2.36739	2.46077						
	2.33670	2.23614	2.32686				AVRG		2.57531		14.45541	
167 Ethanol	213	357	850	1493	2526	4446						
	10513	20203	38509				QUAD	-0.54867	235	189	0.99994	
168 Butyl methacrylate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
169 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++				AVRG		0.000e+000		0.000e+000	<-
170 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	0.88987				AVRG		0.88987		0.000e+000	<-
171 1-Methylnaphthalene	0.72297	0.78609	0.84439	0.61085	0.55447	0.59882						
	0.67002	0.66198	0.76209				AVRG		0.69019		13.88641	

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUN-2024 11:43
End Cal Date : 15-JUN-2024 17:04
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\8260W.m
Last Edit : 15-Jul-2024 08:40 s.zaid

Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
172 tert-Butyl formate	+++++ / 79724	2194 / 156003	5791 / 336149	9103	17506	35062	LINR	-0.04964	0.30190		0.99953	
173 3,3-Dimethyl-1-butanol	+++++ / 129798	3141 / 282604	7547 / 656537	9707	25111	46934	QUAD	0.07374	31.68724	-1.88388	0.99990	
174 tert-Amyl methyl ether	+++++ / 189636	4784 / 398312	11736 / 840188	20716	39115	78689	LINR	-0.00356	1.52123		0.99986	
175 tert-Butyl ethyl ether	+++++ / 1.62318	1.64885 / 1.66580	2.17735 / 1.68059	1.59764	1.57884	1.66685	AVRG		1.70489		11.39076	
176 tert-Amyl alcohol	+++++ / 79111	2244 / 151183	5269 / 319518	7972	15952	31609	LINR	-0.49670	0.02884		0.99972	
179 Hexachloroethane	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
180 2-Furfural	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUN-2024 11:43
End Cal Date : 15-JUN-2024 17:04
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\8260W.m
Last Edit : 15-Jul-2024 08:40 s.zaid

Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
183 Isopropyl Acetate	2765 215753	4776 430883	13006 902069	23318	45161	89796	LINR	-0.01206	0.99185		0.99983	
184 n-Amyl acetate	2202 158246	4173 329197	9084 709851	16091	30467	61241	LINR	0.01101	0.83003		0.99952	
185 Acetaldehyde	418 41280	1282 82329	2195 175217	4414	10172	18371	LINR	-0.08582	0.07895		0.99962	<-
186 n-Butyl acetate	1945 122473	3629 239739	7800 496957	12732	24410	46894	LINR	-0.01749	0.58254		0.99979	
187 2-Etyhlhexyl Acrylate	66.00000 65136	362 157065	633 412027	1446	4941	14116	QUAD	0.06944	1.55327	-0.13541	0.99833	<-
188 Tetrahydrothiophene	1247 78695	1726 161935	4279 335016	7400	15450	30843	LINR	-0.00331	0.39376		0.99997	
189 sec-Butyl Ether	1596 70483	1835 137710	3772 269472	8224	15913	30749	LINR	-0.04968	0.31753		0.99872	

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUN-2024 11:43
End Cal Date : 15-JUN-2024 17:04
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\8260W.m
Last Edit : 15-Jul-2024 08:40 s.zaid

Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
190 Isoprene	+++++ / 18184	194 / 39454	1099 / 85840	2371	4929	7304	LINR	0.00729	0.15477		0.99887	<-
191 2-Chloropropene	+++++ / 0.82772	0.94127 / 0.95634	0.76365 / 0.82417	0.89784	0.78089	0.88953	AVRG		0.86018		8.34390	
M 94 1,2-Dichloroethylene (total)	1017 / 147956	2746 / 290313	8270 / 620673	15686	30084	59055	LINR	-0.01632	0.56112		0.99980	
M 95 Xylenes (total)	4351 / 378152	8270 / 734675	23777 / 1569400	40970	77192	153772	LINR	-0.02956	0.57376		0.99954	
$ 30 Dibromofluoromethane	+++++ / 70864	+++++ / 136360	4411 / 284861	7541	13555	28103	QUAD	-0.02163	1.90596	0.01799	0.99979	
$ 35 1,2-Dichloroethane-d4	+++++ / 95083	+++++ / 181002	6311 / 373277	9398	18078	36252	QUAD	-0.01637	1.40913	0.02647	0.99975	
$ 48 Toluene-d8	+++++ / 255028	+++++ / 478121	16366 / 1013765	25974	50267	99784	QUAD	-0.02860	0.85276	-0.00140	0.99932	

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUN-2024 11:43
End Cal Date : 15-JUN-2024 17:04
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\8260W.m
Last Edit : 15-Jul-2024 08:40 s.zaid

Compound	0.5000000 Level 1 / 50.0000 Level 7	1.0000 Level 2 / 100.0000 Level 8	2.0000 Level 3 / 200.0000 Level 9	5.0000 Level 4	10.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
$ 69 4-Bromofluorobenzene	+++++ / 101258	5645 / 190458	7721 / 396379	12049	20656	39550	QUAD	-0.03913	2.14085	0.01500	0.99952

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 12-JUN-2024 11:43
End Cal Date : 15-JUN-2024 17:04
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\8260W.m
Last Edit : 15-Jul-2024 08:40 s.zaid

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

Report Date : 29-Jun-2024 11:32 Page 1

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 18-JUN-2024 11:33
End Cal Date : 18-JUN-2024 14:47
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\8260C.m
Last Edit : 26-Jun-2024 12:31 VOA9.i

Calibration File Names:
Level 1: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61802.D
Level 2: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61803.D
Level 3: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61804.D
Level 4: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61805.D
Level 5: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61806.D
Level 6: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61807.D
Level 7: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61808.D
Level 8: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61809.D
Level 9: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61810.D
Level 10: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61811.D

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
2 Dichlorodifluoromethane	+++++ / 71745	523 / 138582	1224 / 214787	3706 / 286750	6615	27027	QUAD	0.00473	3.78887	0.13979	0.99957
3 Chloromethane	+++++ / 213466	7573 / 392022	10129 / 581889	18533 / 760022	25986	85328	QUAD	-0.02682	1.26760	0.08541	0.99964
4 Propionitrile	+++++ / 117987	2213 / 236808	4439 / 359865	8940 / 500684	12523	50966	QUAD	-0.22404	23.80311	-0.56705	0.99994

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 18-JUN-2024 11:33
End Cal Date : 18-JUN-2024 14:47
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\8260C.m
Last Edit : 26-Jun-2024 12:31 VOA9.i

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
5 Vinyl Chloride	+++++ / 108070	1018 / 205871	2113 / 319822	6085 / 435887	10804	41000	QUAD	-0.00502	2.61773	-0.01083	0.99970
6 Bromomethane	+++++ / 37541	1376 / 70725	1890 / 109853	3526 / 156449	4766	15463	QUAD	-0.05137	8.21206	-1.53519	0.99971
7 Chloroethane	+++++ / 74065	830 / 140916	1548 / 213923	4390 / 288070	7468	28183	QUAD	-0.00433	3.72757	0.20521	0.99978
8 Trichlorofluoromethane	+++++ / 0.49196	0.36957 / 0.45478	0.40191 / 0.47147	0.59320 / 0.45657	0.46961	0.46146	AVRG		0.46339		13.31977
9 Acrolein	+++++ / 8666	602 / 16198	716 / 25181	1286 / 33660	1028	3733	QUAD	-0.14006	68.14453	0.70035	0.99926
10 Acetone	+++++ / 64431	3970 / 121308	5068 / 175611	8325 / 232698	9029	27578	QUAD	-0.11789	8.57841	1.59295	0.99986
11 1,1-Dichloroethene	+++++ / 77521	845 / 147387	1500 / 230535	4388 / 310552	7444	30151	QUAD	-0.00411	3.60952	0.02988	0.99956

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 18-JUN-2024 11:33
End Cal Date : 18-JUN-2024 14:47
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\8260C.m
Last Edit : 26-Jun-2024 12:31 VOA9.i

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
12 Isobutyl Alcohol	+++++	2907	6938	16133	22787	93233						
	247763	493602	745640	1049114			LINR	0.09895	0.04583		0.99973	
13 Acetonitrile	+++++	1586	3190	5971	11657	42918						
	100821	203019	301576	422215			LINR	-0.12669	0.03686		0.99992	
14 Allyl Chloride	+++++	3819	7211	15546	25297	100087						
	235193	468738	701364	976574			QUAD	-0.01833	1.19042	-0.00597	0.99996	
15 Iodomethane	+++++	+++++	674	1260	1755	7122						
	20918	60408	+++++	+++++			QUAD	-0.02298	31.10758	-58.33010	0.99950	<-
16 Acrylonitrile	+++++	1152	2337	4824	7256	26987						
	62843	124622	186117	259242			LINR	-0.04324	0.11304		0.99992	
17 Methylene Chloride	+++++	3478	4673	8956	12681	40099						
	98077	183361	274023	368746			QUAD	-0.03709	2.89203	0.16365	0.99984	
18 Methyl tert-butyl ether	+++++	3183	7295	15201	24637	95786						
	222687	449037	678008	942372			QUAD	-0.01821	1.24921	-0.01162	0.99996	

Report Date : 29-Jun-2024 11:32 Page 4

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 18-JUN-2024 11:33
End Cal Date : 18-JUN-2024 14:47
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\8260C.m
Last Edit : 26-Jun-2024 12:31 VOA9.i

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
19 Carbon Disulfide	+++++ / 448280	5004 / 873493	9162 / 1361579	23502 / 1851207	41973	167498	LINR	0.00850	0.81782		0.99969
20 trans-1,2-Dichloroethene	+++++ / 85848	1055 / 164953	2162 / 250843	5361 / 340999	9009	32916	QUAD	-0.00849	3.25069	0.06690	0.99984
21 Vinyl Acetate	+++++ / 92135	1184 / 174135	2068 / 265617	5776 / 360352	8618	33930	QUAD	-0.00955	6.09731	0.15858	0.99973
22 1,1-Dichloroethane	+++++ / 161999	2024 / 303561	4125 / 460862	10452 / 625495	16119	62082	QUAD	-0.01056	1.74364	0.03409	0.99976
23 Chloroprene	+++++ / 0.48845	0.52811 / 0.47088	0.50828 / 0.48753	0.68197 / 0.46598	0.46461	0.45211	AVRG		0.50532		13.91515
24 2-Butanone	+++++ / 88495	2310 / 168426	4102 / 254053	7824 / 344617	9187	32984	QUAD	-0.04375	6.39368	0.18225	0.99974
25 Methacrylonitrile	+++++ / 51858	633 / 106522	1925 / 162885	3373 / 219163	4640	22421	QUAD	-0.00474	5.08551	0.09190	0.99968

Report Date : 29-Jun-2024 11:32 Page 5

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 18-JUN-2024 11:33
End Cal Date : 18-JUN-2024 14:47
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\8260C.m
Last Edit : 26-Jun-2024 12:31 VOA9.i

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
26 2,2-Dichloropropane	+++++ / 123879	1317 / 237266	2438 / 369154	6270 / 499998	11254	45167	LINR	0.00140	0.44252		0.99963
27 cis-1,2-Dichloroethene	+++++ / 100054	1318 / 192214	2457 / 290661	6558 / 399766	9915	38669	QUAD	-0.01075	2.82527	0.01684	0.99988
28 Chloroform	+++++ / 164898	2132 / 310538	4019 / 467313	10778 / 631257	16401	62687	QUAD	-0.00830	1.68829	0.05056	0.99980
29 Bromochloromethane	+++++ / 50850	649 / 95582	1331 / 142135	3564 / 193541	5018	19294	QUAD	-0.01115	5.51738	0.54713	0.99982
31 1,1,1-Trichloroethane	+++++ / 0.48919	0.43783 / 0.46484	0.43001 / 0.48075	0.62325 / 0.46995	0.44629	0.44479	AVRG		0.47632		12.30201
32 1,1-Dichloropropene	+++++ / 0.31011	0.38399 / 0.29384	0.33052 / 0.30293	0.42196 / 0.30096	0.28515	0.28820	AVRG		0.32418		14.67426
33 1,2-Dichloroethane	+++++ / 129668	1827 / 242525	3788 / 359831	9225 / 486009	13081	49240	LINR	-0.03113	0.29709		0.99937

Report Date : 29-Jun-2024 11:32 Page 6

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 18-JUN-2024 11:33
End Cal Date : 18-JUN-2024 14:47
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\8260C.m
Last Edit : 26-Jun-2024 12:31 VOA9.i

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
34 Carbon Tetrachloride	+++++ / 0.27319	0.32599 / 0.26839	0.24883 / 0.28044	0.30336 / 0.27850	0.22953	0.24236	AVRG		0.27229		11.05252	
37 Benzene	+++++ / 374648	4767 / 714900	9224 / 1081341	23617 / 1466309	37223	143667	QUAD	-0.00760	1.08034	0.01117	0.99982	
38 Trichloroethene	+++++ / 97566	1013 / 186020	1972 / 283650	5664 / 388381	9695	36654	QUAD	-0.00576	4.20946	0.02218	0.99978	
39 Bromodichloromethane	+++++ / 115133	1190 / 227007	2445 / 349788	6656 / 482897	9682	40772	QUAD	0.00342	3.52725	-0.11673	0.99978	
40 Methyl Methacrylate	+++++ / 30825	347 / 66054	783 / 100803	2213 / 144259	2910	12581	QUAD	-0.00600	8.89341	-1.99120	0.99990	
41 2-Chloroethylvinyl ether	+++++ / 4142	+++++ / 14497	+++++ / 33198	191 / +++++	244	1281	QUAD	0.24109	139	-841	0.99063	<-
42 1,2-Dichloropropane	+++++ / 101557	920 / 191530	2553 / 286453	6561 / 394306	9025	37899	LINR	-0.01391	0.23982		0.99966	

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 18-JUN-2024 11:33
End Cal Date : 18-JUN-2024 14:47
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\8260C.m
Last Edit : 26-Jun-2024 12:31 VOA9.i

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
43 2-Nitropropane	+++++	0.08074	0.08581	0.09670	0.05794	0.07692					
	0.07618	0.08597	0.08447	0.08709			AVRG		0.08132		13.14639
44 Dibromomethane	+++++	761	1603	4090	5491	22080					
	59739	112590	168033	229245			QUAD	-0.00805	6.84314	0.60771	0.99973
45 4-Methyl-2-Pentanone	+++++	2471	5345	12658	17163	65616					
	185089	372106	572345	787323			QUAD	0.00264	3.99119	-0.02015	0.99979
46 cis-1,3-Dichloropropene	+++++	1443	2700	7474	10875	49183					
	143114	281976	435685	606362			LINR	0.02048	0.36852		0.99952
49 Ethyl Methacrylate	+++++	1549	3055	7249	11202	47730					
	115808	242704	379458	546385			QUAD	-0.00939	3.52739	-0.38913	0.99997
50 Toluene	+++++	4741	8671	22308	37307	151246					
	397990	753068	1142857	1542519			QUAD	-0.00163	0.92972	0.02038	0.99989
51 trans-1,3-Dichloropropene	+++++	973	2056	5590	8400	39484					
	117226	235909	363534	503145			QUAD	0.01454	3.40443	-0.13179	0.99974

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 18-JUN-2024 11:33
End Cal Date : 18-JUN-2024 14:47
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\8260C.m
Last Edit : 26-Jun-2024 12:31 VOA9.i

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
52 2-Hexanone	+++++	3679	7411	16678	21946	73239						
	159908	329716	511211	715543			QUAD	-0.07579	4.73617	-0.18618	0.99982	
53 1,1,2-Trichloroethane	+++++	933	2077	4985	7447	28645						
	75349	139478	206905	284607			LINR	-0.03208	0.18245		0.99933	
54 1,3-Dichloropropane	+++++	2046	4183	10758	15016	59253						
	158869	300224	452223	612218			QUAD	-0.00524	2.34125	0.13305	0.99986	
55 Dibromochloromethane	+++++	710	1619	4530	6356	30714						
	90844	181665	280381	386841			QUAD	0.01540	4.05209	-0.04427	0.99977	
56 Tetrachloroethene	+++++	0.20695	0.20380	0.28877	0.20181	0.20122						
	0.21800	0.20261	0.20425	0.19840			AVRG		0.21398		13.36218	<-
57 1,2-Dibromoethane	+++++	920	2126	5387	7388	31771						
	86825	166991	251754	345434			QUAD	-0.00063	4.30975	0.23654	0.99986	
58 1-Chlorohexane	+++++	4142	5001	7053	10035	29680						
	72775	139179	228309	314535			QUAD	-0.05356	6.01483	-0.99667	0.99929	

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 18-JUN-2024 11:33
End Cal Date : 18-JUN-2024 14:47
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\8260C.m
Last Edit : 26-Jun-2024 12:31 VOA9.i

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
59 Chlorobenzene	+++++	3601	6508	16903	26152	98944						
	260581	489280	745037	1011854			QUAD	-0.00862	1.44966	0.03643	0.99986	
60 1,1,1,2-Tetrachloroethane	+++++	0.23509	0.25842	0.32823	0.19718	0.21580						
	0.24650	0.23695	0.23784	0.23477			AVRG		0.24342		14.91533	
61 Ethylbenzene	+++++	1382	2437	7515	11718	47862						
	130750	248726	381170	523259			QUAD	-0.00088	2.90218	0.05914	0.99985	
62 m,p-Xylenes	+++++	0.34259	0.35546	0.50756	0.35526	0.40892						
	0.44780	0.42857	0.43067	0.42476			AVRG		0.41129		12.87658	
63 o-Xylene	+++++	0.33026	0.36447	0.50709	0.35264	0.39020						
	0.43940	0.42046	0.41685	0.41333			AVRG		0.40386		13.05302	
64 Styrene	+++++	0.62996	0.63398	0.90583	0.54920	0.61934						
	0.71981	0.71564	0.72139	0.71960			AVRG		0.69053		14.62126	
65 cis-1,4-Dichloro-2-butene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-

Report Date : 29-Jun-2024 11:32 Page 10

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 18-JUN-2024 11:33
End Cal Date : 18-JUN-2024 14:47
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\8260C.m
Last Edit : 26-Jun-2024 12:31 VOA9.i

Compound	0.2500000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10							
66 Bromoform	+++++ 57744	540 118965	1125 188817	2965 267946	4085	18302	QUAD	0.01746	6.48090	-1.01721	0.99964
67 Isopropylbenzene	+++++ 1.11946	0.92939 1.05521	0.90751 1.08079	1.39466 1.05029	0.97351	1.03179	AVRG		1.06029		13.53114
68 1,1,2,2-Tetrachloroethane	+++++ 121589	1563 229512	3836 347484	8607 470485	11331	45009	QUAD	-0.01229	1.76631	0.03268	0.99980
71 1,2,3-Trichloropropane	+++++ 118793	1563 230682	3650 357842	7993 501438	9684	42156	QUAD	-0.00932	1.86330	-0.05988	0.99973
72 trans-1,4-Dichloro-2-butene	+++++ 24913	305 50141	786 77671	1704 110145	2224	8925	QUAD	-0.00427	15.38844	-4.28033	0.99985
73 n-Propylbenzene	+++++ 2.30242	2.12060 2.20764	1.84389 2.22728	2.62341 2.22137	1.90548	2.08392	AVRG		2.17067		10.51307
74 Bromobenzene	+++++ 116212	1586 219358	2771 330613	7184 452349	11080	43652	QUAD	-0.01199	1.86647	0.02288	0.99973

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 18-JUN-2024 11:33
End Cal Date : 18-JUN-2024 14:47
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\8260C.m
Last Edit : 26-Jun-2024 12:31 VOA9.i

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
75 1,3,5-Trimethylbenzene	+++++	1.33883	1.16765	1.57447	1.04670	1.25850					
	1.55589	1.53308	1.56517	1.57503			AVRG		1.40170		14.55341
76 2-Chlorotoluene	+++++	3053	5848	16116	26824	109655					
	296301	552923	835134	1132240			QUAD	-0.00575	0.72474	0.00732	0.99976
77 4-Chlorotoluene	+++++	3366	6772	18473	29030	123990					
	337228	635232	978479	1322489			QUAD	-0.00302	0.63560	0.00259	0.99985
78 tert-Butylbenzene	+++++	1.19981	1.12767	1.80319	1.23710	1.32425					
	1.40783	1.33630	1.34783	1.33838			AVRG		1.34693		14.24141
79 1,2,4-Trimethylbenzene	+++++	5868	8153	17443	25835	94983					
	291959	600331	956736	1326903			QUAD	0.00512	0.72151	-0.01231	0.99967
80 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
81 sec-Butylbenzene	+++++	1.65174	1.45943	2.27463	1.66024	1.69559					
	1.87862	1.78348	1.81754	1.80134			AVRG		1.78029		12.51209

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 18-JUN-2024 11:33
End Cal Date : 18-JUN-2024 14:47
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\8260C.m
Last Edit : 26-Jun-2024 12:31 VOA9.i

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
82 p-Isopropyltoluene	+++++	1.54212	1.16459	1.82646	1.25684	1.33837						
	1.58917	1.55295	1.60619	1.61442			AVRG		1.49901		13.77734	
83 1,3-Dichlorobenzene	+++++	2793	5061	13057	19664	78224						
	207026	387691	594193	807473			QUAD	-0.01245	1.05077	0.00537	0.99982	
84 1,4-Dichlorobenzene	+++++	3365	5568	13833	20905	81178						
	214635	399255	614910	827079			QUAD	-0.01307	1.00709	0.00966	0.99984	
85 bis(2-Chloro-isopropyl)ether	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
86 Benzyl Chloride	+++++	9476	10840	15276	17404	47026						
	120213	239643	386789	549424			QUAD	-0.06905	3.40381	-0.37441	0.99970	
87 n-Butylbenzene	+++++	1.46638	1.12156	1.71717	1.20387	1.25433						
	1.41039	1.35602	1.41429	1.41624			AVRG		1.37336		12.56817	
88 1,2-Dichlorobenzene	+++++	2913	4822	12518	19065	76689						
	202386	379859	574335	777513			QUAD	-0.01086	1.06029	0.01439	0.99982	

Report Date : 29-Jun-2024 11:32 Page 13

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 18-JUN-2024 11:33
End Cal Date : 18-JUN-2024 14:47
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\8260C.m
Last Edit : 26-Jun-2024 12:31 VOA9.i

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
89 1,2-Dibromo-3-Chloropropane	+++++ / 15052	165 / 29664	469 / 48686	1026 / 68116	1241	4971	QUAD	-0.00132	14.62343	-6.39424	0.99966
90 1,2,4-Trichlorobenzene	+++++ / 135883	1930 / 256199	3160 / 399061	8307 / 550333	12178	48403	QUAD	-0.00928	1.63187	-0.02430	0.99974
91 Hexachlorobutadiene	+++++ / 58311	800 / 109824	1156 / 175365	3114 / 233076	6008	21653	QUAD	-0.00513	3.66570	0.01257	0.99973
92 Naphthalene	+++++ / 291329	3757 / 571149	6806 / 881430	15244 / 1208315	21378	92506	QUAD	0.00946	0.72847	-0.00322	0.99964
93 1,2,3-Trichlorobenzene	+++++ / 121378	1825 / 230050	3052 / 355442	7386 / 483670	11268	43590	QUAD	-0.00785	1.78706	-0.00154	0.99982
130 Ethyl Acetate	+++++ / 37975	524 / 77881	1487 / 116089	3474 / 144830	4685	18504	QUAD	-0.00733	6.14276	3.03363	0.99789
131 Methyl Acrylate	+++++ / 96978	1566 / 196336	3553 / 298313	7257 / 417904	10143	41019	QUAD	-0.01976	2.89835	-0.11362	0.99995

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 18-JUN-2024 11:33
End Cal Date : 18-JUN-2024 14:47
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\8260C.m
Last Edit : 26-Jun-2024 12:31 VOA9.i

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
132 n-Butanol	+++++ / 43695	655 / 95229	1519 / 148429	3143 / 213424	4365	17825	QUAD	-0.15303	125	-24.81301	0.99985
133 Ethyl Acrylate	+++++ / 0.76033	0.81547 / 0.76498	0.96564 / 0.78876	0.93605 / 0.79636	0.71875	0.74260	AVRG		0.80988		10.52638
134 Cyclohexanone	+++++ / 129182	1942 / 265721	4122 / 391857	9692 / 570789	13562	54601	QUAD	-0.55656	34.21639	-1.37892	0.99904
135 1,4-Dioxane	1001 / 21010	1174 / 42162	1572 / 64995	2395 / 90169	3081	10034	QUAD	-1.23943	275	-63.17095	0.99979
136 n-Hexane	+++++ / 0.34318	0.32406 / 0.31952	0.26197 / 0.33050	0.39148 / 0.32348	0.33254	0.33213	AVRG		0.32876		10.06948
137 n-Pentane	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
138 Freon TF	+++++ / 0.27966	0.24662 / 0.26454	0.21293 / 0.27450	0.35256 / 0.26996	0.28854	0.27142	AVRG		0.27342		13.56418

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 18-JUN-2024 11:33
End Cal Date : 18-JUN-2024 14:47
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\8260C.m
Last Edit : 26-Jun-2024 12:31 VOA9.i

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
146 Methyl Acetate	+++++	+++++	3664	7302	7309	26684						
	70168	135298	199393	270237			QUAD	-0.02823	3.97401	0.26784	0.99976	
147 Methylcyclohexane	+++++	0.52119	0.64621	0.63259	0.48599	0.50908						
	0.52843	0.52729	0.54344	0.55134			AVRG		0.54951		9.90525	
149 Isopropyl alcohol	+++++	1837	3844	8231	12011	48136						
	111537	222580	340981	474877			QUAD	-0.43773	50.66953	-1.55608	0.99991	
152 Amyl alcohol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
150 Allyl alcohol	+++++	0.01620	0.01310	0.01957	0.01663	0.01661						
	0.01716	0.01598	0.01652	0.01617			AVRG		0.01644		10.06948	
151 4-Methyl-2-pentanol	+++++	9021	19143	43056	68297	263937						
	633996	1372071	2168737	3077060			QUAD	-0.13975	12.45314	-0.24111	0.99986	
148 Tert-butyl alcohol	+++++	2768	5606	12016	16958	62858						
	139757	285061	429656	601904			QUAD	-0.61040	40.15808	-0.99629	0.99990	

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 18-JUN-2024 11:33
End Cal Date : 18-JUN-2024 14:47
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\8260C.m
Last Edit : 26-Jun-2024 12:31 VOA9.i

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
139 Diethyl ether	+++++	994	2280	4591	7428	28505					
	65452	130487	195930	274285			QUAD	-0.02387	4.32072	-0.15337	0.99993
140 1,3-Butadiene	+++++	0.17102	0.17785	0.21740	0.16283	0.15144					
	0.16583	0.15666	0.16203	0.15880			AVRG		0.16932		11.59817
141 Cyclohexane	+++++	+++++	+++++	9795	16399	51904					
	128400	240972	377083	511373			QUAD	-0.03933	2.28129	-0.02687	0.99949
142 Tetrahydrofuran	+++++	+++++	1401	2268	3175	13928					
	32546	61079	95798	+++++			QUAD	-0.07264	18.42643	-2.77695	0.99912
143 1-Chlorobutane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
144 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
145 alpha-Methylstyrene	+++++	1014	1928	5432	8634	35720					
	112184	238829	395535	553500			QUAD	0.02120	1.83124	-0.11432	0.99952

Report Date : 29-Jun-2024 11:32 Page 17

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 18-JUN-2024 11:33
End Cal Date : 18-JUN-2024 14:47
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\8260C.m
Last Edit : 26-Jun-2024 12:31 VOA9.i

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
153 Tetraethyl lead	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
	+++++	+++++	+++++	+++++								
154 2,3-Dichlorobutane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
	+++++	+++++	+++++	+++++								
155 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
	+++++	+++++	+++++	+++++								
156 Diisopropyl ether	+++++	5074	9772	17751	30402	122488	QUAD	-0.01762	0.96612	-0.00223	0.99996	
	289955	575279	858480	1194208								
157 n-Heptane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
	+++++	+++++	+++++	+++++								
158 Dichlorofluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
	+++++	+++++	+++++	+++++								
159 Propylene oxide	+++++	+++++	548	1125	1432	5053	QUAD	-0.08268	51.52357	-28.51499	0.99956	
	10509	23025	35027	49106								

Report Date : 29-Jun-2024 11:32 Page 18

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 18-JUN-2024 11:33
End Cal Date : 18-JUN-2024 14:47
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\8260C.m
Last Edit : 26-Jun-2024 12:31 VOA9.i

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
160 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
161 3-Methyl-1-butanol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
162 Butyl acrylate	+++++	1886	4536	9232	15971	62932						
	146387	312199	510310	745668			QUAD	-0.01227	2.58940	-0.25972	0.99989	
163 Butyl methacrylate	+++++	1426	2476	5913	10056	45736						
	95763	182934	267494	379693			QUAD	-0.03568	2.33115	-0.01236	0.99857	
164 Dicyclopentadiene	+++++	7028	12471	20948	38627	154587						
	382598	760346	1199116	1682883			QUAD	-0.01729	0.57319	-0.00758	0.99996	
165 4-Vinyl-1-cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
166 1,2,3-Trimethylbenzene	+++++	3160	6963	14039	23546	89707						
	247837	542512	853778	1196325			QUAD	0.00728	0.81606	-0.01803	0.99967	

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 18-JUN-2024 11:33
End Cal Date : 18-JUN-2024 14:47
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\8260C.m
Last Edit : 26-Jun-2024 12:31 VOA9.i

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
167 Ethanol	+++++	450	1355	2248	2792	10168						
	22880	44666	68945	+++++			QUAD	-0.89300	257	-55.74581	0.99957	
168 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
170 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
172 tert-Butyl formate	+++++	2110	4610	10071	13399	55984						
	137785	292214	+++++	+++++			QUAD	-0.03306	4.19949	-0.38523	0.99976	
173 3,3-Dimethyl-1-butanol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
174 tert-Amyl methyl ether	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
175 tert-Butyl ethyl ether	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-

Report Date : 29-Jun-2024 11:32 Page 20

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 18-JUN-2024 11:33
End Cal Date : 18-JUN-2024 14:47
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\8260C.m
Last Edit : 26-Jun-2024 12:31 VOA9.i

Compound	0.2500000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.0000 Level 4	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10								
176 tert-Amyl alcohol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
177 Dimethyl ether	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
178 Ethylene oxide	+++++	1076	4269	12681	15657	58646						
	160609	692716	+++++	+++++			QUAD	-0.03489	4.01808	-0.95863	0.99945	
179 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
180 1-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
181 2-Furfural	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
182 Epichlorohydrin	+++++	156	316	606	955	3929						
	11600	28840	47701	+++++			QUAD	0.07319	134	-292	0.99860	

Report Date : 29-Jun-2024 11:32 Page 21

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 18-JUN-2024 11:33
End Cal Date : 18-JUN-2024 14:47
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\8260C.m
Last Edit : 26-Jun-2024 12:31 VOA9.i

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
183 2-Methylpropane(1)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
(2)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
184 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
185 Isoprene	+++++	150	833	1003	2037	7802						
	21075	39739	61366	82599			QUAD	-0.00394	13.28537	1.44881	0.99960	
186 Isopentane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
187 n-Amyl acetate	+++++	1693	4009	10604	14831	58923						
	145360	287307	455486	629051			QUAD	-0.01189	2.61523	-0.08460	0.99985	
188 Isopropyl acetate	+++++	2497	6772	16412	23249	93485						
	245161	490173	745549	1043175			QUAD	-0.00744	1.66939	-0.03642	0.99991	

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 18-JUN-2024 11:33
End Cal Date : 18-JUN-2024 14:47
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\8260C.m
Last Edit : 26-Jun-2024 12:31 VOA9.i

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
189 n-Butyl acetate	+++++ / 136481	1773 / 279685	3987 / 433292	9190 / 616135	12673	49951	QUAD	-0.00362	2.78046	-0.15628	0.99988	
190 Propanal	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
191 n-Buteraldehyde	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
192 Isobuteraldehyde	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
193 2-Ethyl-1-hexanol	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
194 Acetaldehyde	+++++ / 81996	+++++ / 147429	3406 / 218446	7182 / 279773	9293	30594	QUAD	-0.05590	12.75342	3.44510	0.99914	<-
195 Methyl Amyl Ketone	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

Report Date : 29-Jun-2024 11:32 Page 23

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 18-JUN-2024 11:33
End Cal Date : 18-JUN-2024 14:47
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\8260C.m
Last Edit : 26-Jun-2024 12:31 VOA9.i

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
196 2-Methylpentane	#####	#####	#####	#####	#####	#####	AVRG		0.000e+000		0.000e+000	
197 3-Methylpentane	#####	#####	#####	#####	#####	#####	AVRG		0.000e+000		0.000e+000	
198 Methylcyclopentane	#####	#####	#####	#####	#####	#####	AVRG		0.000e+000		0.000e+000	
199 1-Hexene	#####	#####	#####	#####	#####	#####	AVRG		0.000e+000		0.000e+000	
200 Dimethyl Disulfide	#####	442	1094	2258	4106	20556	QUAD	0.01275	6.63607	-5.31215	0.99931	
	64993	183430	#####	#####								
201 1-Butene(1)	#####	#####	#####	#####	#####	#####	AVRG		0.000e+000		0.000e+000	
(2)	#####	#####	#####	#####	#####	#####	AVRG		0.000e+000		0.000e+000	<-

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 18-JUN-2024 11:33
End Cal Date : 18-JUN-2024 14:47
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\8260C.m
Last Edit : 26-Jun-2024 12:31 VOA9.i

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
202 Isobutylene	+++++	0.11964	0.16880	0.13376	0.14212	0.15322						
	0.14404	0.14833	0.15327	0.15032			AVRG		0.14594		9.42068	
203 2-Ethylhexyl Acrylate	+++++	2270	2980	5117	8094	32713						
	99869	220827	373003	+++++			QUAD	0.00528	2.17202	-0.27048	0.99938	
204 Tetrahydrothiophene	+++++	1041	2486	5611	9147	39650						
	94657	191282	290009	406335			QUAD	-0.00885	3.94974	-0.09346	0.99995	
205 sec-Butyl Ether	+++++	2099	5760	11668	19597	77842						
	181834	369992	577351	859599			QUAD	-0.02444	2.19970	-0.16673	0.99979	
206 2-Chloropropene	+++++	0.53435	0.58636	0.48847	0.49128	0.51175						
	0.48474	0.47307	0.47603	0.49039			AVRG		0.50405		7.17500	<-
M 94 1,2-Dichloroethylene (total)	+++++	2373	4619	11919	18924	71585						
	185902	357167	541504	740765			QUAD	-0.01941	3.02317	0.01844	0.99987	
M 95 Xylenes (total)	+++++	0.31160	0.33371	0.46798	0.32754	0.37471						
	0.41962	0.39486	0.40298	0.40008			AVRG		0.38145		13.12312	

Report Date : 29-Jun-2024 11:32 Page 25

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 18-JUN-2024 11:33
End Cal Date : 18-JUN-2024 14:47
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\8260C.m
Last Edit : 26-Jun-2024 12:31 VOA9.i

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
$ 30 Dibromofluoromethane	+++++ / 0.32275	+++++ / 0.30881	+++++ / 0.29893	+++++ / 0.30344	0.36627	0.30813	AVRG		0.31805		7.84205
$ 35 1,2-Dichloroethane-d4	+++++ / 0.38230	+++++ / 0.35864	+++++ / 0.34588	+++++ / 0.34850	0.45372	0.38941	AVRG		0.37974		10.62554
$ 48 Toluene-d8	+++++ / 0.89282	+++++ / 0.85431	+++++ / 0.81820	+++++ / 0.82167	0.94636	0.85543	AVRG		0.86480		5.58556
$ 69 4-Bromofluorobenzene	+++++ / 0.34039	+++++ / 0.32340	+++++ / 0.30958	+++++ / 0.31476	0.37129	0.32655	AVRG		0.33099		6.77182

Report Date : 29-Jun-2024 11:32 Page 26

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 18-JUN-2024 11:33
End Cal Date : 18-JUN-2024 14:47
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\8260C.m
Last Edit : 26-Jun-2024 12:31 VOA9.i

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

right solutions.
right partner.

Form 6I

Initial Calibration Verification (ICV)

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24060434

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 18/24

07/15/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 18/24

Workorder HS24060434

RunID P061215.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix	LIQUID	**Fraction**	VOA
Lab Smp Id	VSTD050	**Client Smp ID**	VSTD050
Data Type	MS DATA	**SampleType**	METHSPIKE
File ID	P061215.D	**Inj Date**	12-JUN-2024 1617

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
1,1,1,2-Tetrachloroethane	50.0	48.2	96.4	80-120	
1,1,1-Trichloroethane	50.0	46.0	92.1	80-120	
1,1,2,2-Tetrachloroethane	50.0	52.3	105	80-120	
Freon TF	50.0	46.8	93.5	80-120	
Methyl acetate	50.0	45.7	91.4	80-120	
Cyclohexane	50.0	46.8	93.7	80-120	
Methylcyclohexane	50.0	48.1	96.2	80-120	
Carbon Disulfide	100	93.2	93.2	80-120	
2-Hexanone	100	97.5	97.5	80-120	
1,1,2-Trichloroethane	50.0	49.2	98.4	80-120	
1,1-Dichloroethane	50.0	47.4	94.8	80-120	
1,1-Dichloroethene	50.0	48.2	96.4	80-120	
1,1-Dichloropropene	50.0	47.4	94.8	80-120	
1,2,3-Trichlorobenzene	50.0	49.7	99.5	80-120	
1,2,3-Trichloropropane	50.0	50.9	102	80-120	
1,2,4-Trichlorobenzene	50.0	49.7	99.4	80-120	
1,2,4-Trimethylbenzene	50.0	51.2	102	80-120	
1,2-Dibromo-3-Chloropropane	50.0	45.4	90.9	80-120	
1,2-Dibromoethane	50.0	47.8	95.6	80-120	
Acrolein	100	99.4	99.4	80-120	
Acrylonitrile	100	95.1	95.1	80-120	
1,2-Dichlorobenzene	50.0	51.0	102	80-120	
1,2-Dichloroethane	50.0	47.9	95.8	80-120	
1,2-Dichloropropane	50.0	48.5	97.0	80-120	
1,3,5-Trimethylbenzene	50.0	49.7	99.5	80-120	
1,3-Dichlorobenzene	50.0	51.2	102	80-120	
1,3-Dichloropropane	50.0	49.0	98.0	80-120	
1,4-Dichlorobenzene	50.0	50.9	102	80-120	
1-Chlorohexane	50.0	48.1	96.2	80-120	
2,2-Dichloropropane	50.0	45.7	91.4	80-120	
2-Butanone	100	91.8	91.8	80-120	
2-Chloroethylvinyl ether	100	104	104	80-120	
2-Chlorotoluene	50.0	51.1	102	80-120	
4-Chlorotoluene	50.0	50.3	101	80-120	

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 18/24

Workorder HS24060434

RunID P061215.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix	LIQUID	**Fraction**	VOA
Lab Smp Id	VSTD050	**Client Smp ID**	VSTD050
Data Type	MS DATA	**SampleType**	METHSPIKE
File ID	P061215.D	**Inj Date**	12-JUN-2024 1617

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
p-Isopropyltoluene	50.0	46.7	93.3	80-120	
4-Methyl-2-Pentanone	100	98.2	98.2	80-120	
Acetone	100	91.1	91.1	80-120	
Acetonitrile	500	484	96.9	80-120	
Allyl Chloride	50.0	47.4	94.8	80-120	
Benzene	50.0	48.0	96.0	80-120	
Bromobenzene	50.0	51.3	103	80-120	
Bromochloromethane	50.0	49.6	99.1	80-120	
Bromodichloromethane	50.0	47.6	95.1	80-120	
Bromoform	50.0	48.3	96.6	80-120	
Bromomethane	50.0	47.2	94.5	80-120	
Carbon Tetrachloride	50.0	46.0	92.0	80-120	
Chlorobenzene	50.0	49.3	98.6	80-120	
Chloroethane	50.0	47.4	94.8	80-120	
Chloroform	50.0	47.5	95.0	80-120	
Chloromethane	50.0	47.7	95.5	80-120	
Chloroprene	50.0	45.7	91.4	80-120	
cis-1,2-Dichloroethene	50.0	46.8	93.6	80-120	
cis-1,3-Dichloropropene	50.0	46.7	93.4	80-120	
Dibromochloromethane	50.0	48.6	97.3	80-120	
Dibromomethane	50.0	47.9	95.8	80-120	
Dichlorodifluoromethane	50.0	46.4	92.7	80-120	
Ethylbenzene	50.0	49.4	98.8	80-120	
Ethyl Methacrylate	50.0	44.7	89.5	80-120	
Iodomethane	100	99.1	99.1	80-120	
Isobutyl Alcohol	1000	944	94.4	70-130	
Propionitrile	500	477	95.4	70-130	
Hexachlorobutadiene	50.0	54.6	109	80-120	
Isopropylbenzene	50.0	49.2	98.4	80-120	
m,p-Xylenes	100	98.2	98.2	80-120	
Methyl tert-butyl ether	50.0	45.4	90.8	80-120	
Methylene Chloride	50.0	47.4	94.7	80-120	
Methacrylonitrile	50.0	46.8	93.6	80-120	
Methyl Methacrylate	50.0	48.2	96.4	80-120	

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 18/24

Workorder HS24060434

RunID P061215.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix LIQUID
Lab Smp Id VSTD050
Data Type MS DATA
File ID P061215.D

Fraction VOA
Client Smp ID VSTD050
SampleType METHSPIKE
Inj Date 12-JUN-2024 1617

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
n-Butylbenzene	50.0	47.4	94.8	80-120	
n-Propylbenzene	50.0	51.3	103	80-120	
Naphthalene	50.0	49.9	99.8	80-120	
o-Xylene	50.0	49.8	99.5	80-120	
sec-Butylbenzene	50.0	51.3	103	80-120	
Styrene	50.0	49.2	98.4	80-120	
tert-Butylbenzene	50.0	51.1	102	80-120	
Tetrachloroethene	50.0	48.4	96.9	80-120	
Toluene	50.0	49.5	99.0	80-120	
trans-1,2-Dichloroethene	50.0	45.1	90.2	80-120	
trans-1,3-Dichloropropene	50.0	46.7	93.4	80-120	
trans-1,4-Dichloro-2-butene	50.0	47.1	94.3	80-120	
Trichloroethene	50.0	48.2	96.3	80-120	
Trichlorofluoromethane	50.0	46.5	93.0	80-120	
Vinyl Acetate	100	96.8	96.9	80-120	
Vinyl Chloride	50.0	47.0	93.9	80-120	
1,2-Dichloroethylene (total)	100	91.9	91.9	80-120	
Xylenes (total)	150	148	98.7	80-120	
1,4-Dioxane	1000	0.000		80-120	*
Dibromofluoromethane	50.0	49.6	99.2	85-115	
1,2-Dichloroethane-d4	50.0	48.4	96.9	70-120	
Toluene-d8	50.0	51.1	102	85-115	
4-Bromofluorobenzene	50.0	50.7	101	75-120	

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 18/24

Workorder HS24060434

RunID U61814.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix	LIQUID	**Fraction**	VOA
Lab Smp Id	VSTD050	**Client Smp ID**	VSTD050
Data Type	MS DATA	**SampleType**	METHSPIKE
File ID	U61814.D	**Inj Date**	18-JUN-2024 1551

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
1,1,1,2-Tetrachloroethane	50.0	45.5	91.1	80-120	
1,1,1-Trichloroethane	50.0	46.3	92.7	80-120	
1,1,2,2-Tetrachloroethane	50.0	46.9	93.9	80-120	
Freon TF	50.0	46.7	93.4	80-120	
Methyl acetate	50.0	46.4	92.8	80-120	
Cyclohexane	50.0	47.6	95.1	80-120	
Methylcyclohexane	50.0	45.1	90.2	80-120	
Carbon Disulfide	100	94.2	94.2	80-120	
2-Hexanone	100	92.3	92.3	80-120	
1,1,2-Trichloroethane	50.0	48.1	96.2	80-120	
1,1-Dichloroethane	50.0	47.0	94.0	80-120	
1,1-Dichloroethene	50.0	46.8	93.7	80-120	
1,1-Dichloropropene	50.0	43.6	87.2	80-120	
1,2,3-Trichlorobenzene	50.0	46.7	93.5	80-120	
1,2,3-Trichloropropane	50.0	48.3	96.7	80-120	
1,2,4-Trichlorobenzene	50.0	48.0	96.1	80-120	
1,2,4-Trimethylbenzene	50.0	48.1	96.2	80-120	
1,2-Dibromo-3-Chloropropane	50.0	46.6	93.1	80-120	
1,2-Dibromoethane	50.0	46.4	92.9	80-120	
Acrolein	100	89.7	89.7	80-120	
Acrylonitrile	100	94.7	94.7	80-120	
1,2-Dichlorobenzene	50.0	46.6	93.2	80-120	
1,2-Dichloroethane	50.0	47.9	95.8	80-120	
1,2-Dichloropropane	50.0	42.2	84.4	80-120	
1,3,5-Trimethylbenzene	50.0	51.8	104	80-120	
1,3-Dichlorobenzene	50.0	47.4	94.7	80-120	
1,3-Dichloropropane	50.0	46.2	92.4	80-120	
1,4-Dichlorobenzene	50.0	46.9	93.8	80-120	
1-Chlorohexane	50.0	47.0	94.1	80-120	
2,2-Dichloropropane	50.0	44.5	89.0	80-120	
2-Butanone	100	90.9	90.9	80-120	
2-Chloroethylvinyl ether	100	90.7	90.7	80-120	
2-Chlorotoluene	50.0	47.0	94.1	80-120	
4-Chlorotoluene	50.0	47.4	94.9	80-120	

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 18/24

Workorder HS24060434

RunID U61814.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix	LIQUID	**Fraction**	VOA
Lab Smp Id	VSTD050	**Client Smp ID**	VSTD050
Data Type	MS DATA	**SampleType**	METHSPIKE
File ID	U61814.D	**Inj Date**	18-JUN-2024 1551

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
p-Isopropyltoluene	50.0	49.4	98.7	80-120	
4-Methyl-2-Pentanone	100	92.9	92.9	80-120	
Acetone	100	93.3	93.3	80-120	
Acetonitrile	500	477	95.4	80-120	
Allyl Chloride	50.0	47.4	94.9	80-120	
Benzene	50.0	46.7	93.4	80-120	
Bromobenzene	50.0	46.8	93.6	80-120	
Bromochloromethane	50.0	46.1	92.3	80-120	
Bromodichloromethane	50.0	46.6	93.2	80-120	
Bromoform	50.0	45.9	91.8	80-120	
Bromomethane	50.0	56.0	112	80-120	
Carbon Tetrachloride	50.0	45.6	91.3	80-120	
Chlorobenzene	50.0	47.2	94.4	80-120	
Chloroethane	50.0	46.2	92.5	80-120	
Chloroform	50.0	46.7	93.4	80-120	
Chloromethane	50.0	44.0	87.9	80-120	
Chloroprene	50.0	43.6	87.3	80-120	
cis-1,2-Dichloroethene	50.0	47.4	94.7	80-120	
cis-1,3-Dichloropropene	50.0	45.0	90.0	80-120	
Dibromochloromethane	50.0	45.6	91.2	80-120	
Dibromomethane	50.0	45.9	91.7	80-120	
Dichlorodifluoromethane	50.0	46.1	92.2	80-120	
Ethylbenzene	50.0	47.9	95.8	80-120	
Ethyl Methacrylate	50.0	47.5	94.9	80-120	
Iodomethane	100	134	134	80-120	*
Isobutyl Alcohol	1000	906	90.6	70-130	
Propionitrile	500	483	96.6	70-130	
Hexachlorobutadiene	50.0	46.9	93.7	80-120	
Isopropylbenzene	50.0	48.1	96.2	80-120	
m,p-Xylenes	100	99.6	99.6	80-120	
Methyl tert-butyl ether	50.0	48.2	96.5	80-120	
Methylene Chloride	50.0	46.4	92.7	80-120	
Methacrylonitrile	50.0	46.7	93.4	80-120	
Methyl Methacrylate	50.0	46.3	92.5	80-120	

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 18/24

Workorder HS24060434

RunID U61814.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix	LIQUID	**Fraction**	VOA
Lab Smp Id	VSTD050	**Client Smp ID**	VSTD050
Data Type	MS DATA	**SampleType**	METHSPIKE
File ID	U61814.D	**Inj Date**	18-JUN-2024 1551

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
n-Butylbenzene	50.0	47.1	94.3	80-120	
n-Propylbenzene	50.0	48.7	97.5	80-120	
Naphthalene	50.0	46.2	92.5	80-120	
o-Xylene	50.0	50.2	100	80-120	
sec-Butylbenzene	50.0	48.2	96.4	80-120	
Styrene	50.0	49.0	98.0	80-120	
tert-Butylbenzene	50.0	48.3	96.6	80-120	
Tetrachloroethene	50.0	46.2	92.3	80-120	
Toluene	50.0	46.7	93.4	80-120	
trans-1,2-Dichloroethene	50.0	47.3	94.6	80-120	
trans-1,3-Dichloropropene	50.0	46.1	92.3	80-120	
trans-1,4-Dichloro-2-butene	50.0	46.1	92.1	80-120	
Trichloroethene	50.0	46.9	93.7	80-120	
Trichlorofluoromethane	50.0	47.3	94.6	80-120	
Vinyl Acetate	100	93.2	93.2	80-120	
Vinyl Chloride	50.0	46.7	93.4	80-120	
Methyl Acrylate	50.0	48.0	96.0	80-120	
Ethyl Acrylate	50.0	44.5	89.0	80-120	
Butyl acrylate	50.0	48.1	96.3	80-120	
2-Ethylhexyl Acrylate	50.0	48.6	97.3	80-120	
Allyl alcohol	1000	925	92.5	80-120	
1,2-Dichloroethylene (total)	100	94.6	94.6	80-120	
Xylenes (total)	150	148	98.7	80-120	
1,4-Dioxane	1000	928	92.8	80-120	
Dibromofluoromethane	50.0	44.7	89.4	71-125	
1,2-Dichloroethane-d4	50.0	44.8	89.5	70-125	
Toluene-d8	50.0	46.6	93.2	75-125	
4-Bromofluorobenzene	50.0	46.4	92.9	72-125	

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 18/24

Workorder HS24060434

RunID X061513A.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix	LIQUID	**Fraction**	VOA
Lab Smp Id	VSTD50	**Client Smp ID**	VSTD050
Data Type	MS DATA	**SampleType**	METHSPIKE
File ID	X061513A.D	**Inj Date**	15-JUN-2024 1835

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
1,1,1,2-Tetrachloroethane	50.0	45.3	90.6	80-120	
1,1,1-Trichloroethane	50.0	44.2	88.4	80-120	
1,1,2,2-Tetrachloroethane	50.0	47.9	95.8	80-120	
Freon TF	50.0	44.2	88.3	80-120	
Methyl acetate	50.0	43.2	86.5	80-120	
Cyclohexane	50.0	43.8	87.6	80-120	
Methylcyclohexane	50.0	45.2	90.5	80-120	
Carbon Disulfide	100	89.1	89.1	80-120	
2-Hexanone	100	99.3	99.3	80-120	
1,1,2-Trichloroethane	50.0	48.8	97.5	80-120	
1,1-Dichloroethane	50.0	42.8	85.6	80-120	
1,1-Dichloroethene	50.0	46.4	92.8	80-120	
1,1-Dichloropropene	50.0	44.4	88.8	80-120	
1,2,3-Trichlorobenzene	50.0	44.3	88.6	80-120	
1,2,3-Trichloropropane	50.0	46.6	93.3	80-120	
1,2,4-Trichlorobenzene	50.0	45.1	90.3	80-120	
1,2,4-Trimethylbenzene	50.0	45.7	91.4	80-120	
1,2-Dibromo-3-Chloropropane	50.0	45.1	90.1	80-120	
1,2-Dibromoethane	50.0	46.0	92.1	80-120	
Acrolein	100	98.5	98.5	80-120	
Acrylonitrile	100	97.7	97.7	80-120	
1,2-Dichlorobenzene	50.0	46.2	92.5	80-120	
1,2-Dichloroethane	50.0	45.4	90.7	80-120	
1,2-Dichloropropane	50.0	45.9	91.7	80-120	
1,3,5-Trimethylbenzene	50.0	44.8	89.6	80-120	
1,3-Dichlorobenzene	50.0	46.3	92.6	80-120	
1,3-Dichloropropane	50.0	47.2	94.5	80-120	
1,4-Dichlorobenzene	50.0	46.4	92.9	80-120	
1-Chlorohexane	50.0	45.8	91.5	80-120	
2,2-Dichloropropane	50.0	41.8	83.6	80-120	
2-Butanone	100	95.6	95.6	80-120	
2-Chloroethylvinyl ether	100	101	101	80-120	
2-Chlorotoluene	50.0	46.0	91.9	80-120	
4-Chlorotoluene	50.0	45.6	91.2	80-120	

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 18/24

Workorder HS24060434

RunID X061513A.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix	LIQUID	**Fraction**	VOA
Lab Smp Id	VSTD50	**Client Smp ID**	VSTD050
Data Type	MS DATA	**SampleType**	METHSPIKE
File ID	X061513A.D	**Inj Date**	15-JUN-2024 1835

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
p-Isopropyltoluene	50.0	45.3	90.6	80-120	
4-Methyl-2-Pentanone	100	96.9	96.9	80-120	
Acetone	100	96.7	96.8	80-120	
Acetonitrile	500	471	94.1	80-120	
Allyl Chloride	50.0	47.4	94.7	80-120	
Benzene	50.0	45.5	91.1	80-120	
Bromobenzene	50.0	46.2	92.4	80-120	
Bromochloromethane	50.0	47.1	94.1	80-120	
Bromodichloromethane	50.0	40.5	81.0	80-120	
Bromoform	50.0	45.1	90.1	80-120	
Bromomethane	50.0	46.2	92.4	80-120	
Carbon Tetrachloride	50.0	42.5	85.1	80-120	
Chlorobenzene	50.0	46.9	93.8	80-120	
Chloroethane	50.0	45.8	91.6	80-120	
Chloroform	50.0	45.9	91.8	80-120	
Chloromethane	50.0	44.4	88.7	80-120	
Chloroprene	50.0	44.3	88.5	80-120	
cis-1,2-Dichloroethene	50.0	46.5	93.0	80-120	
cis-1,3-Dichloropropene	50.0	43.0	86.0	80-120	
Dibromochloromethane	50.0	43.4	86.8	80-120	
Dibromomethane	50.0	46.0	92.0	80-120	
Dichlorodifluoromethane	50.0	42.7	85.4	80-120	
Ethylbenzene	50.0	46.3	92.6	80-120	
Ethyl Methacrylate	50.0	48.5	97.1	80-120	
Iodomethane	100	90.6	90.6	80-120	
Isobutyl Alcohol	1000	955	95.5	70-130	
Propionitrile	500	510	102	70-130	
Hexachlorobutadiene	50.0	45.4	90.7	80-120	
Isopropylbenzene	50.0	46.0	92.0	80-120	
m,p-Xylenes	100	93.2	93.2	80-120	
Methyl tert-butyl ether	50.0	45.8	91.7	80-120	
Methylene Chloride	50.0	46.2	92.4	80-120	
Methacrylonitrile	50.0	46.2	92.3	80-120	
Methyl Methacrylate	50.0	49.8	99.5	80-120	

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 18/24

Workorder HS24060434

RunID X061513A.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix LIQUID
Lab Smp Id VSTD50
Data Type MS DATA
File ID X061513A.D

Fraction VOA
Client Smp ID VSTD050
SampleType METHSPIKE
Inj Date 15-JUN-2024 1835

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
n-Butylbenzene	50.0	45.2	90.3	80-120	
n-Propylbenzene	50.0	45.3	90.6	80-120	
Naphthalene	50.0	44.7	89.4	80-120	
o-Xylene	50.0	46.6	93.1	80-120	
sec-Butylbenzene	50.0	45.4	90.8	80-120	
Styrene	50.0	47.6	95.1	80-120	
tert-Butylbenzene	50.0	44.8	89.6	80-120	
Tetrachloroethene	50.0	46.3	92.6	80-120	
Toluene	50.0	46.8	93.7	80-120	
trans-1,2-Dichloroethene	50.0	45.6	91.1	80-120	
trans-1,3-Dichloropropene	50.0	43.0	86.0	80-120	
trans-1,4-Dichloro-2-butene	50.0	43.3	86.5	80-120	
Trichloroethene	50.0	45.4	90.9	80-120	
Trichlorofluoromethane	50.0	44.2	88.3	80-120	
Vinyl Acetate	100	93.6	93.6	80-120	
Vinyl Chloride	50.0	44.6	89.1	80-120	
1,2-Dichloroethylene (total)	100	92.0	92.0	80-120	
Xylenes (total)	150	140	93.2	80-120	
1,4-Dioxane	1000	1041	104	80-120	
Dibromofluoromethane	50.0	48.1	96.3	85-115	
1,2-Dichloroethane-d4	50.0	46.5	93.0	70-120	
Toluene-d8	50.0	48.8	97.5	85-115	
4-Bromofluorobenzene	50.0	49.0	97.9	75-120	

right solutions.
right partner.

Form 7

Continuing Calibration Verification (CCV)

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24060434

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 18/24

07/15/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 18/24

Workorder HS24060434

RunID P061242.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa7.i
Lab File ID P061242.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 13-JUN-2024 0240
ICAL Date(s) 12-JUN-2024, 12-JUN-2024
ICAL Times 11:43, 14:46
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Dichlorodifluoromethane	50.0	54.4	0.560	0.100	8.78	50.0	Linear	
Dichlorofluoromethane	1.03	0.941	0.941	0.100	-8.868	50.0	Averaged	
Chloromethane	50.0	54.1	0.843	0.100	8.13	50.0	Linear	
Propionitrile	500	426	0.057	0.010	-14.819	50.0	Linear	
Vinyl Chloride	50.0	52.3	0.719	0.100	4.63	50.0	Linear	
Bromomethane	50.0	51.8	0.455	0.100	3.63	50.0	Quadratic	
Chloroethane	50.0	52.7	0.438	0.100	5.40	50.0	Linear	
Trichlorofluoromethane	50.0	51.9	0.945	0.100	3.77	50.0	Linear	
Acrolein	100	84.8	0.017	0.010	-15.191	50.0	Quadratic	
Acetone	100	84.9	0.145	0.100	-15.060	50.0	Linear	
1,1-Dichloroethene	0.482	0.515	0.515	0.100	6.91	50.0	Averaged	
Isobutyl Alcohol	1000	896	0.071	0.005	-10.428	50.0	Linear	
Acetonitrile	500	485	0.068	0.010	-3.008	50.0	Linear	
Allyl Chloride	50.0	47.5	1.43	0.050	-4.967	50.0	Linear	
Iodomethane	100	104	0.394	0.100	4.14	50.0	Quadratic	
Acrylonitrile	100	90.6	0.152	0.050	-9.388	50.0	Linear	
Methylene Chloride	50.0	51.4	0.593	0.100	2.87	50.0	Linear	
Methyl tert-butyl ether	50.0	44.6	1.17	0.100	-10.880	50.0	Linear	
Carbon Disulfide	100	101	1.59	0.100	0.883	50.0	Linear	
trans-1,2-Dichloroethene	0.535	0.523	0.523	0.100	-2.195	50.0	Averaged	
Vinyl Acetate	100	91.6	0.252	0.100	-8.410	50.0	Linear	
1,1-Dichloroethane	50.0	52.1	1.13	0.200	4.26	50.0	Linear	
Chloroprene	0.938	0.918	0.918	0.050	-2.098	50.0	Averaged	
2-Butanone	100	86.3	0.197	0.100	-13.730	50.0	Linear	
Methacrylonitrile	50.0	47.7	0.778	0.010	-4.525	50.0	Linear	
2,2-Dichloropropane	50.0	46.0	0.863	0.100	-7.934	50.0	Linear	
cis-1,2-Dichloroethene	50.0	50.3	0.597	0.100	0.539	50.0	Linear	
Chloroform	50.0	50.9	1.08	0.200	1.83	50.0	Linear	
Bromochloromethane	50.0	52.2	0.296	0.100	4.31	50.0	Linear	
30 Dibromofluoromethane	50.0	57.9	0.619	0.100	15.9	50.0	Linear	
1,1,1-Trichloroethane	50.0	49.6	0.932	0.100	-0.704	50.0	Linear	
1,1-Dichloropropene	50.0	49.0	0.486	0.100	-2.020	50.0	Linear	
1,2-Dichloroethane	50.0	48.9	0.534	0.100	-2.102	50.0	Linear	
Carbon Tetrachloride	50.0	47.7	0.484	0.100	-4.519	50.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 18/24

Workorder HS24060434

RunID P061242.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa7.i
Lab File ID P061242.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 13-JUN-2024 0240
ICAL Date(s) 12-JUN-2024, 12-JUN-2024
ICAL Times 11:43, 14:46
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
35 1,2-Dichloroethane-d4	50.0	56.8	0.797	0.100	13.5	50.0	Linear	
Benzene	50.0	50.0	1.32	0.500	0.088	50.0	Linear	
Trichloroethene	50.0	49.9	0.347	0.200	-0.222	50.0	Linear	
Bromodichloromethane	50.0	47.9	0.484	0.200	-4.134	50.0	Linear	
Methyl Methacrylate	50.0	46.8	0.484	0.050	-6.328	50.0	Linear	
2-Chloroethylvinyl ether	100	80.7	0.107	0.050	-19.340	50.0	Quadratic	
1,2-Dichloropropane	50.0	50.0	0.384	0.100	0.027	50.0	Linear	
2-Nitropropane	50.0	41.2	0.143	0.100	-17.548	50.0	Linear	
Dibromomethane	50.0	47.9	0.208	0.100	-4.188	50.0	Linear	
4-Methyl-2-Pentanone	100	88.3	0.322	0.100	-11.658	50.0	Linear	
cis-1,3-Dichloropropene	50.0	46.5	0.522	0.200	-7.041	50.0	Linear	
48 Toluene-d8	50.0	57.7	1.44	0.100	15.4	50.0	Linear	
Ethyl Methacrylate	50.0	31.8	0.204	0.010	-36.432	50.0	Quadratic	
Toluene	50.0	50.1	1.47	0.400	0.246	50.0	Linear	
trans-1,3-Dichloropropene	50.0	46.5	0.522	0.100	-7.041	50.0	Linear	
2-Hexanone	100	83.5	0.212	0.100	-16.538	50.0	Linear	
1,1,2-Trichloroethane	50.0	48.6	0.274	0.100	-2.863	50.0	Linear	
1,3-Dichloropropane	50.0	48.4	0.569	0.100	-3.268	50.0	Linear	
Dibromochloromethane	50.0	47.8	0.378	0.100	-4.495	50.0	Linear	
Tetrachloroethene	50.0	48.1	0.275	0.100	-3.774	50.0	Linear	
1,2-Dibromoethane	50.0	48.2	0.262	0.100	-3.500	50.0	Linear	
1-Chlorohexane	50.0	48.3	0.321	0.100	-3.342	50.0	Linear	
Chlorobenzene	50.0	49.7	0.954	0.500	-0.596	50.0	Linear	
1,1,1,2-Tetrachloroethane	50.0	46.8	0.336	0.100	-6.449	50.0	Linear	
Ethylbenzene	50.0	48.6	0.484	0.100	-2.729	50.0	Linear	
m,p-Xylenes	100	98.4	0.617	0.100	-1.573	50.0	Linear	
o-Xylene	50.0	49.7	0.599	0.300	-0.625	50.0	Linear	
Styrene	50.0	49.5	1.01	0.300	-0.989	50.0	Linear	
Bromoform	50.0	45.6	0.229	0.100	-8.826	50.0	Linear	
Isopropylbenzene	50.0	48.8	1.49	0.100	-2.368	50.0	Linear	
1,1,2,2-Tetrachloroethane	50.0	45.6	0.774	0.300	-8.864	50.0	Linear	
69 4-Bromofluorobenzene	50.0	53.6	0.525	0.100	7.15	50.0	Linear	
1,2,3-Trichloropropane	50.0	45.7	0.843	0.100	-8.581	50.0	Linear	
trans-1,4-Dichloro-2-butene	50.0	43.7	0.089	0.050	-12.547	50.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 18/24

Workorder HS24060434

RunID P061242.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa7.i
Lab File ID P061242.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 13-JUN-2024 0240
ICAL Date(s) 12-JUN-2024, 12-JUN-2024
ICAL Times 11:43, 14:46
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
n-Propylbenzene	50.0	47.8	3.45	0.100	-4.471	50.0	Linear	
Bromobenzene	50.0	49.1	0.788	0.100	-1.803	50.0	Linear	
1,3,5-Trimethylbenzene	50.0	47.2	2.41	0.100	-5.582	50.0	Linear	
2-Chlorotoluene	50.0	48.6	2.16	0.100	-2.847	50.0	Linear	
4-Chlorotoluene	50.0	48.4	2.53	0.100	-3.203	50.0	Linear	
tert-Butylbenzene	50.0	48.5	2.07	0.100	-3.087	50.0	Linear	
1,2,4-Trimethylbenzene	50.0	48.6	2.49	0.100	-2.880	50.0	Linear	
sec-Butylbenzene	50.0	48.4	2.87	0.100	-3.199	50.0	Linear	
p-Isopropyltoluene	2.85	2.47	2.47	0.100	-13.460	50.0	Averaged	
1,3-Dichlorobenzene	50.0	48.2	1.40	0.600	-3.528	50.0	Linear	
1,4-Dichlorobenzene	50.0	47.9	1.44	0.400	-4.145	50.0	Linear	
n-Butylbenzene	2.58	2.25	2.25	0.050	-12.939	50.0	Averaged	
1,2-Dichlorobenzene	50.0	48.2	1.36	0.400	-3.637	50.0	Linear	
1,2-Dibromo-3-Chloropropane	0.148	0.116	0.116	0.050	-21.516	50.0	Averaged	
1,2,4-Trichlorobenzene	50.0	44.0	0.780	0.200	-11.998	50.0	Linear	
Hexachlorobutadiene	0.407	0.387	0.387	0.100	-4.843	50.0	Averaged	
Naphthalene	50.0	41.7	1.63	0.200	-16.648	50.0	Linear	
1,2,3-Trichlorobenzene	50.0	41.0	0.577	0.100	-18.047	50.0	Linear	
Methyl Acetate	50.0	46.1	0.365	0.100	-7.790	50.0	Linear	
Freon TF	50.0	51.0	0.523	0.100	2.01	50.0	Linear	
Diethyl ether	50.0	47.4	0.321	0.050	-5.269	50.0	Linear	
1,3-Butadiene	50.0	50.4	0.311	0.050	0.764	50.0	Linear	
Cyclohexane	50.0	50.2	0.827	0.100	0.472	50.0	Linear	
Methylcyclohexane	50.0	45.4	0.442	0.100	-9.146	50.0	Linear	
n-Butanol	1000	913	0.015	0.001	-8.719	50.0	Linear	
Methyl Acrylate	50.0	45.5	0.477	0.100	-9.079	50.0	Linear	
Ethyl Acrylate	1.42	0.552	0.552	0.100	-61.015	50.0	Averaged	
n-Hexane	50.0	47.3	0.543	0.100	-5.494	50.0	Linear	
Tetrahydrofuran	100	86.0	0.076	0.050	-13.958	50.0	Linear	
Tert-butyl alcohol	1000	759	0.025	0.005	-24.125	50.0	Quadratic	
Isopropyl alcohol	1000	648	0.021	0.005	-35.185	50.0	Linear	
4-Methyl-2-pentanol	1000	735	0.074	0.005	-26.541	50.0	Linear	
1,2,3-Trimethylbenzene	50.0	48.9	2.22	0.100	-2.243	50.0	Linear	
Ethanol	1000	667	0.004	0.001	-33.312	50.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 18/24

Workorder HS24060434

RunID P061242.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa7.i
Lab File ID P061242.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 13-JUN-2024 0240
ICAL Date(s) 12-JUN-2024, 12-JUN-2024
ICAL Times 11:43, 14:46
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
tert-Butyl formate	100	75.8	0.254	0.100	-24.161	50.0	Quadratic	
3,3-Dimethyl-1-butanol	1000	634	0.015	0.005	-36.582	50.0	Quadratic	
tert-Amyl methyl ether	50.0	48.0	1.29	0.050	-3.994	50.0	Quadratic	
tert-Butyl ethyl ether	50.0	48.1	1.41	0.100	-3.720	50.0	Quadratic	
2-Methylnaphthalene	50.0	33.4	0.475	0.050	-33.178	50.0	Linear	
Diisopropyl ether	50.0	49.2	1.76	0.050	-1.569	50.0	Linear	
1-Methylnaphthalene	50.0	34.1	0.397	0.100	-31.732	50.0	Linear	
Ethyl Acetate	50.0	43.7	2.93	0.010	-12.601	50.0	Linear	
tert-Amyl alcohol	1000	728	0.025	0.005	-27.241	50.0	Linear	
Epichlorohydrin	200	173	0.016	0.005	-13.654	50.0	Quadratic	
Butyl acrylate	50.0	43.3	0.711	0.100	-13.304	50.0	Linear	
Isobutylene	++++	++++	8.246e+60	0.100	++++	50.0	Linear	*
Isopropyl Acetate	50.0	44.1	0.848	0.100	-11.786	50.0	Linear	
n-Amyl acetate	50.0	41.9	0.656	0.100	-16.203	50.0	Linear	
Acetaldehyde	200	202	0.126	0.100	1.15	0.000e+000	Quadratic	<-
94 1,2-Dichloroethylene (total	100	++++	0.560	0.100	++++	50.0	Linear	*
95 Xylenes (total)	150	++++	0.571	0.100	++++	50.0	Linear	*

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 18/24

Workorder HS24060434

RunID U61843.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U61843.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 19-JUN-2024 0247
ICAL Date(s) 18-JUN-2024, 18-JUN-2024
ICAL Times 11:33, 14:47
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Dichlorodifluoromethane	50.0	48.0	0.250	0.100	4.05	50.0	Quadratic	
Chloromethane	50.0	42.7	0.665	0.100	14.6	50.0	Quadratic	
Propionitrile	500	551	0.048	0.010	-10.174	50.0	Quadratic	
Vinyl Chloride	50.0	47.3	0.364	0.100	5.43	50.0	Quadratic	
Bromomethane	50.0	65.5	0.171	0.100	-30.969	50.0	Quadratic	
Chloroethane	50.0	47.5	0.252	0.100	5.03	50.0	Quadratic	
Trichlorofluoromethane	0.463	0.435	0.435	0.100	6.09	50.0	Averaged	
Acrolein	100	116	0.018	0.010	-16.453	50.0	Quadratic	
Acetone	100	109	0.128	0.100	-8.735	50.0	Quadratic	
1,1-Dichloroethene	50.0	46.0	0.256	0.100	7.94	50.0	Quadratic	
Isobutyl Alcohol	1000	1046	0.048	0.005	-4.645	50.0	Linear	
Acetonitrile	500	507	0.038	0.005	-1.430	50.0	Linear	
Allyl Chloride	50.0	51.3	0.881	0.100	-2.538	50.0	Quadratic	
Iodomethane	100	193	0.100	0.100	-93.466	50.0	Quadratic	
Acrylonitrile	100	105	0.121	0.050	-4.651	50.0	Linear	
Methylene Chloride	50.0	47.7	0.336	0.100	4.55	50.0	Quadratic	
Methyl tert-butyl ether	50.0	51.0	0.838	0.100	-1.995	50.0	Quadratic	
Carbon Disulfide	100	86.3	0.702	0.100	13.7	50.0	Linear	
trans-1,2-Dichloroethene	50.0	46.1	0.285	0.100	7.72	50.0	Quadratic	
Vinyl Acetate	100	107	0.175	0.010	-7.148	50.0	Quadratic	
1,1-Dichloroethane	50.0	47.5	0.545	0.200	4.97	50.0	Quadratic	
Chloroprene	0.505	0.451	0.451	0.100	10.7	50.0	Averaged	
2-Butanone	100	106	0.168	0.100	-6.025	50.0	Quadratic	
Methacrylonitrile	50.0	49.7	0.196	0.100	0.700	50.0	Quadratic	
2,2-Dichloropropane	50.0	37.9	0.335	0.100	24.2	50.0	Linear	
cis-1,2-Dichloroethene	50.0	48.9	0.349	0.100	2.15	50.0	Quadratic	
Chloroform	50.0	47.7	0.560	0.200	4.65	50.0	Quadratic	
Bromochloromethane	50.0	47.9	0.173	0.100	4.24	50.0	Quadratic	
30 Dibromofluoromethane	0.318	0.373	0.373	0.100	-17.389	50.0	Averaged	
1,1,1-Trichloroethane	0.476	0.435	0.435	0.100	8.73	50.0	Averaged	
1,1-Dichloropropene	0.324	0.277	0.277	0.100	14.7	50.0	Averaged	
1,2-Dichloroethane	50.0	50.6	0.310	0.100	-1.256	50.0	Linear	
Carbon Tetrachloride	0.272	0.239	0.239	0.100	12.3	50.0	Averaged	
35 1,2-Dichloroethane-d4	0.380	0.436	0.436	0.100	-14.850	50.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 18/24

Workorder HS24060434

RunID U61843.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U61843.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 19-JUN-2024 0247
ICAL Date(s) 18-JUN-2024, 18-JUN-2024
ICAL Times 11:33, 14:47
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Benzene	50.0	47.4	0.877	0.500	5.18	50.0	Quadratic	
Trichloroethene	50.0	47.1	0.225	0.200	5.82	50.0	Quadratic	
Bromodichloromethane	50.0	45.8	0.261	0.200	8.43	50.0	Quadratic	
Methyl Methacrylate	50.0	56.5	0.132	0.100	-13.099	50.0	Quadratic	
2-Chloroethylvinyl ether	100	73.6	0.005	0.001	26.4	50.0	Quadratic	
1,2-Dichloropropane	50.0	48.1	0.234	0.100	3.73	50.0	Linear	
2-Nitropropane	0.081	0.083	0.083	0.000	-1.478	50.0	Averaged	
Dibromomethane	50.0	48.5	0.141	0.100	2.99	50.0	Quadratic	
4-Methyl-2-Pentanone	100	112	0.280	0.100	-11.636	50.0	Quadratic	
cis-1,3-Dichloropropene	50.0	44.1	0.317	0.200	11.8	50.0	Linear	
48 Toluene-d8	0.865	1.07	1.07	0.100	-23.994	50.0	Averaged	
Ethyl Methacrylate	50.0	57.4	0.341	0.100	-14.781	50.0	Quadratic	
Toluene	50.0	47.5	1.00	0.400	5.06	50.0	Quadratic	
trans-1,3-Dichloropropene	50.0	45.9	0.268	0.100	8.25	50.0	Quadratic	
2-Hexanone	100	161	0.357	0.100	-60.514	50.0	Quadratic	
1,1,2-Trichloroethane	50.0	51.2	0.193	0.100	-2.451	50.0	Linear	
1,3-Dichloropropane	50.0	48.1	0.404	0.100	3.85	50.0	Quadratic	
Dibromochloromethane	50.0	45.1	0.220	0.100	9.72	50.0	Quadratic	
Tetrachloroethene	0.214	0.188	0.188	0.200	12.0	50.0	Averaged	
1,2-Dibromoethane	50.0	49.1	0.225	0.100	1.81	50.0	Quadratic	
1-Chlorohexane	50.0	47.2	0.171	0.100	5.66	50.0	Quadratic	
Chlorobenzene	50.0	47.1	0.645	0.500	5.79	50.0	Quadratic	
1,1,1,2-Tetrachloroethane	0.243	0.225	0.225	0.100	7.49	50.0	Averaged	
Ethylbenzene	50.0	47.2	0.324	0.100	5.53	50.0	Quadratic	
m,p-Xylenes	0.411	0.410	0.410	0.100	0.384	50.0	Averaged	
o-Xylene	0.404	0.408	0.408	0.300	-0.936	50.0	Averaged	
Styrene	0.691	0.688	0.688	0.300	0.319	50.0	Averaged	
Bromoform	50.0	44.9	0.139	0.100	10.2	50.0	Quadratic	
Isopropylbenzene	1.06	1.01	1.01	0.100	4.70	50.0	Averaged	
1,1,2,2-Tetrachloroethane	50.0	50.3	0.570	0.300	-0.600	50.0	Quadratic	
69 4-Bromofluorobenzene	0.331	0.409	0.409	0.100	-23.665	50.0	Averaged	
1,2,3-Trichloropropane	50.0	51.4	0.567	0.100	-2.790	50.0	Quadratic	
trans-1,4-Dichloro-2-butene	50.0	44.8	0.060	0.050	10.4	50.0	Quadratic	
n-Propylbenzene	2.17	2.03	2.03	0.100	6.67	50.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 18/24

Workorder HS24060434

RunID U61843.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U61843.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 19-JUN-2024 0247
ICAL Date(s) 18-JUN-2024, 18-JUN-2024
ICAL Times 11:33, 14:47
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Bromobenzene	50.0	47.2	0.509	0.100	5.64	50.0	Quadratic	
1,3,5-Trimethylbenzene	1.40	1.48	1.48	0.100	-5.652	50.0	Averaged	
2-Chlorotoluene	50.0	47.6	1.30	0.100	4.78	10.0	Quadratic	
4-Chlorotoluene	50.0	47.6	1.49	0.100	4.82	50.0	Quadratic	
tert-Butylbenzene	1.35	1.27	1.27	0.100	5.85	50.0	Averaged	
1,2,4-Trimethylbenzene	50.0	51.4	1.45	0.100	-2.830	50.0	Quadratic	
sec-Butylbenzene	1.78	1.65	1.65	0.100	7.34	50.0	Averaged	
p-Isopropyltoluene	1.50	1.45	1.45	0.100	3.38	50.0	Averaged	
1,3-Dichlorobenzene	50.0	47.1	0.904	0.600	5.78	50.0	Quadratic	
1,4-Dichlorobenzene	50.0	47.5	0.947	0.400	5.09	50.0	Quadratic	
Benzyl Chloride	50.0	49.6	0.323	0.010	0.772	50.0	Quadratic	
n-Butylbenzene	1.37	1.21	1.21	0.500	11.6	50.0	Averaged	
1,2-Dichlorobenzene	50.0	46.9	0.884	0.400	6.25	50.0	Quadratic	
1,2-Dibromo-3-Chloropropane	50.0	51.3	0.073	0.050	-2.638	50.0	Quadratic	
1,2,4-Trichlorobenzene	50.0	45.0	0.562	0.200	9.91	50.0	Quadratic	
Hexachlorobutadiene	50.0	40.8	0.224	0.100	18.5	50.0	Quadratic	
Naphthalene	50.0	49.9	1.37	0.200	0.101	50.0	Quadratic	
1,2,3-Trichlorobenzene	50.0	45.2	0.511	0.100	9.51	50.0	Quadratic	
Methyl Acetate	50.0	50.3	0.256	0.100	-0.695	50.0	Quadratic	
Freon TF	0.273	0.240	0.240	0.100	12.2	50.0	Averaged	
Cyclohexane	50.0	46.1	0.423	0.100	7.80	50.0	Quadratic	
Tetrahydrofuran	100	117	0.067	0.001	-16.530	50.0	Quadratic	
Methylcyclohexane	0.550	0.527	0.527	0.100	4.03	50.0	Averaged	
1,4-Dioxane	1000	1107	0.004	0.001	-10.692	50.0	Quadratic	
n-Butanol	1000	1125	0.009	0.005	-12.456	50.0	Quadratic	
n-Hexane	0.329	0.252	0.252	0.100	23.3	50.0	Averaged	
Diethyl ether	50.0	51.6	0.247	0.100	-3.288	50.0	Quadratic	
Tert-butyl alcohol	1000	1159	0.030	0.005	-15.904	50.0	Quadratic	
Isopropyl alcohol	1000	1115	0.023	0.005	-11.473	50.0	Quadratic	
Diisopropyl ether	50.0	51.0	1.08	0.100	-2.077	50.0	Quadratic	
Butyl acrylate	50.0	54.9	0.449	0.100	-9.757	50.0	Quadratic	
Dicyclopentadiene	50.0	51.7	1.88	0.100	-3.461	50.0	Quadratic	
1,2,3-Trimethylbenzene	50.0	53.7	1.35	0.100	-7.325	50.0	Quadratic	
Ethanol	1000	1073	0.004	0.001	-7.312	50.0	Quadratic	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 18/24

Workorder HS24060434

RunID U61843.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID VOA9.i
Lab File ID U61843.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 19-JUN-2024 0247
ICAL Date(s) 18-JUN-2024, 18-JUN-2024
ICAL Times 11:33, 14:47
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
tert-Butyl formate	100	124	0.317	0.100	-23.879	50.0	Quadratic	
4-Methyl-2-pentanol	1000	1532	0.130	0.005	-53.223	50.0	Quadratic	
1,3-Butadiene	0.169	0.158	0.158	0.100	6.59	50.0	Averaged	
Epichlorohydrin	200	171	0.007	0.001	14.4	50.0	Quadratic	
94 1,2-Dichloroethylene (total	100	++++	0.317	0.200	++++	50.0	Quadratic	*
95 Xylenes (total)	0.381	0.383	0.383	0.100	-0.357	50.0	Averaged	
alpha-Methylstyrene	50.0	50.2	0.556	0.100	-0.387	50.0	Quadratic	
Ethyl Acetate	++++	++++	3.532e+56	0.100	++++	50.0	Quadratic	*
Methyl Acrylate	50.0	53.3	0.381	0.100	-6.695	50.0	Quadratic	
n-Butyl acetate	50.0	56.7	0.419	0.100	-13.405	50.0	Quadratic	
Cyclohexanone	1000	1253	0.039	0.005	-25.321	50.0	Quadratic	
Isoprene	50.0	47.6	0.071	0.010	4.76	50.0	Quadratic	
Isopropyl acetate	50.0	53.7	0.657	0.100	-7.315	50.0	Quadratic	
Allyl alcohol	0.016	0.013	0.013	0.004	23.3	50.0	Averaged	
Acetaldehyde	200	395	0.136	0.001	-97.510	50.0	Quadratic	
Dimethyl Disulfide	50.0	41.3	0.138	0.020	17.5	50.0	Quadratic	
Isobutylene	0.146	++++	3.532e+56	0.010	++++	50.0	Averaged	*
Ethyl Acrylate	0.810	0.767	0.767	0.100	5.33	50.0	Averaged	
Butyl methacrylate	50.0	51.9	0.461	0.100	-3.732	50.0	Quadratic	
Propylene oxide	100	80.7	0.017	0.005	19.3	50.0	Quadratic	
Ethylene oxide	++++	++++	3.532e+56	0.010	++++	50.0	Quadratic	*
2-Ethylhexyl Acrylate	50.0	45.8	0.444	0.100	8.44	50.0	Quadratic	
Tetrahydrothiophene	50.0	50.4	0.259	0.100	-0.841	0.000e+000	Quadratic	*
sec-Butyl Ether	50.0	40.2	0.388	0.100	19.7	0.000e+000	Quadratic	*
n-Amyl acetate	50.0	56.9	0.446	0.100	-13.876	50.0	Quadratic	
2-Chloropropene	0.504	++++	3.532e+56	0.100	++++	50.0	Averaged	*

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 18/24

Workorder HS24060434

RunID X061541.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa7.i
Lab File ID X061541.D
Analysis Type WATER
Lab Sample ID VSTD50

Injection Date 16-JUN-2024 0516
ICAL Date(s) 12-JUN-2024, 15-JUN-2024
ICAL Times 11:43, 17:04
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Dichlorodifluoromethane	50.0	44.1	0.468	0.100	-11.843	50.0	Linear	
Dichlorofluoromethane	1.04	0.984	0.984	0.100	-5.456	50.0	Averaged	
Chloromethane	50.0	44.3	0.685	0.100	-11.384	50.0	Linear	
Propionitrile	500	434	0.059	0.010	-13.177	50.0	Linear	
Vinyl Chloride	50.0	44.4	0.627	0.100	-11.105	50.0	Linear	
Bromomethane	50.0	45.6	0.348	0.100	-8.729	50.0	Linear	
Chloroethane	50.0	45.0	0.386	0.100	-9.961	50.0	Linear	
Trichlorofluoromethane	50.0	45.2	0.826	0.100	-9.583	50.0	Linear	
Acrolein	0.014	0.014	0.014	0.010	2.60	50.0	Averaged	
Acetone	100	88.7	0.156	0.100	-11.261	50.0	Linear	
1,1-Dichloroethene	50.0	44.6	0.459	0.100	-10.806	50.0	Linear	
Isobutyl Alcohol	1000	869	0.072	0.005	-13.064	50.0	Linear	
Acetonitrile	500	498	0.077	0.010	-0.491	50.0	Linear	
Allyl Chloride	50.0	47.6	1.53	0.050	-4.817	50.0	Linear	
Iodomethane	100	85.5	0.555	0.100	-14.529	50.0	Linear	
Acrylonitrile	100	91.4	0.161	0.050	-8.557	50.0	Linear	
Methylene Chloride	50.0	44.7	0.530	0.100	-10.651	50.0	Linear	
Methyl tert-butyl ether	50.0	44.7	1.27	0.100	-10.555	50.0	Linear	
Carbon Disulfide	100	86.5	1.37	0.100	-13.544	50.0	Linear	
trans-1,2-Dichloroethene	50.0	43.9	0.469	0.100	-12.220	50.0	Linear	
Vinyl Acetate	100	78.6	0.224	0.100	-21.405	50.0	Linear	
1,1-Dichloroethane	1.18	0.989	0.989	0.200	-15.891	50.0	Averaged	
Chloroprene	50.0	43.2	0.807	0.050	-13.548	50.0	Linear	
2-Butanone	100	80.8	0.193	0.100	-19.161	50.0	Linear	
Methacrylonitrile	0.833	0.760	0.760	0.010	-8.852	50.0	Averaged	
2,2-Dichloropropane	0.998	0.775	0.775	0.100	-22.303	50.0	Averaged	
cis-1,2-Dichloroethene	50.0	44.5	0.532	0.100	-10.975	50.0	Linear	
Chloroform	50.0	45.4	0.967	0.200	-9.263	50.0	Linear	
Bromochloromethane	50.0	44.3	0.258	0.100	-11.357	50.0	Linear	
30 Dibromofluoromethane	50.0	59.2	0.628	0.100	18.3	50.0	Quadratic	
1,1,1-Trichloroethane	50.0	43.8	0.823	0.100	-12.314	50.0	Linear	
1,1-Dichloropropene	50.0	42.2	0.414	0.100	-15.556	50.0	Linear	
1,2-Dichloroethane	50.0	43.6	0.473	0.100	-12.829	50.0	Linear	
Carbon Tetrachloride	50.0	40.8	0.403	0.100	-18.313	50.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 18/24

Workorder HS24060434

RunID X061541.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa7.i
Lab File ID X061541.D
Analysis Type WATER
Lab Sample ID VSTD50

Injection Date 16-JUN-2024 0516
ICAL Date(s) 12-JUN-2024, 15-JUN-2024
ICAL Times 11:43, 17:04
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
35 1,2-Dichloroethane-d4	50.0	57.4	0.813	0.100	14.7	50.0	Quadratic	
Benzene	50.0	43.4	1.16	0.500	-13.262	50.0	Linear	
Trichloroethene	50.0	43.7	0.301	0.200	-12.519	50.0	Linear	
Bromodichloromethane	0.557	0.433	0.433	0.200	-22.293	50.0	Averaged	
Methyl Methacrylate	50.0	48.6	0.521	0.050	-2.717	50.0	Linear	
2-Chloroethylvinyl ether	100	89.3	0.121	0.050	-10.710	50.0	Quadratic	
1,2-Dichloropropane	50.0	42.5	0.326	0.100	-15.025	50.0	Linear	
2-Nitropropane	50.0	42.0	0.151	0.100	-15.929	50.0	Linear	
Dibromomethane	50.0	41.9	0.184	0.100	-16.187	50.0	Linear	
4-Methyl-2-Pentanone	100	80.8	0.304	0.100	-19.199	50.0	Linear	
cis-1,3-Dichloropropene	50.0	39.9	0.436	0.200	-20.239	50.0	Linear	
48 Toluene-d8	50.0	59.1	1.42	0.100	18.2	50.0	Quadratic	
Ethyl Methacrylate	50.0	35.7	0.310	0.010	-28.693	50.0	Quadratic	
Toluene	50.0	43.5	1.29	0.400	-12.997	50.0	Linear	
trans-1,3-Dichloropropene	50.0	39.9	0.436	0.100	-20.239	50.0	Linear	
2-Hexanone	100	79.7	0.203	0.100	-20.262	50.0	Linear	
1,1,2-Trichloroethane	50.0	43.8	0.244	0.100	-12.419	50.0	Linear	
1,3-Dichloropropane	50.0	43.0	0.514	0.100	-13.940	50.0	Linear	
Dibromochloromethane	0.410	0.324	0.324	0.100	-20.794	50.0	Averaged	
Tetrachloroethene	50.0	43.5	0.247	0.100	-12.925	50.0	Linear	
1,2-Dibromoethane	50.0	42.2	0.249	0.100	-15.686	50.0	Linear	
1-Chlorohexane	50.0	40.7	0.284	0.100	-18.513	50.0	Linear	
Chlorobenzene	50.0	43.5	0.842	0.500	-12.984	50.0	Linear	
1,1,1,2-Tetrachloroethane	50.0	42.4	0.293	0.100	-15.298	50.0	Linear	
Ethylbenzene	50.0	42.9	0.429	0.100	-14.170	50.0	Linear	
m,p-Xylenes	100	86.6	0.542	0.100	-13.403	50.0	Linear	
o-Xylene	50.0	43.8	0.530	0.300	-12.321	50.0	Linear	
Styrene	50.0	44.2	0.944	0.300	-11.696	50.0	Linear	
Bromoform	0.258	0.205	0.205	0.100	-20.550	50.0	Averaged	
Isopropylbenzene	50.0	43.7	1.37	0.100	-12.561	50.0	Linear	
1,1,2,2-Tetrachloroethane	50.0	38.9	0.652	0.300	-22.276	50.0	Linear	
69 4-Bromofluorobenzene	50.0	54.3	0.524	0.100	8.59	50.0	Quadratic	
1,2,3-Trichloropropane	50.0	38.4	0.731	0.100	-23.244	50.0	Linear	
trans-1,4-Dichloro-2-butene	50.0	35.6	0.077	0.050	-28.825	50.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 18/24

Workorder HS24060434

RunID X061541.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa7.i
Lab File ID X061541.D
Analysis Type WATER
Lab Sample ID VSTD50

Injection Date 16-JUN-2024 0516
ICAL Date(s) 12-JUN-2024, 15-JUN-2024
ICAL Times 11:43, 17:04
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
n-Propylbenzene	50.0	40.9	3.05	0.100	-18.254	50.0	Linear	
Bromobenzene	50.0	42.1	0.684	0.100	-15.829	50.0	Linear	
1,3,5-Trimethylbenzene	50.0	41.3	2.21	0.100	-17.467	50.0	Linear	
2-Chlorotoluene	50.0	41.7	1.89	0.100	-16.541	50.0	Linear	
4-Chlorotoluene	50.0	42.0	2.26	0.100	-15.901	50.0	Linear	
tert-Butylbenzene	50.0	42.2	1.86	0.100	-15.538	50.0	Linear	
1,2,4-Trimethylbenzene	50.0	42.0	2.23	0.100	-16.066	50.0	Linear	
sec-Butylbenzene	50.0	41.9	2.55	0.100	-16.206	50.0	Linear	
p-Isopropyltoluene	50.0	41.6	2.28	0.100	-16.858	50.0	Linear	
1,3-Dichlorobenzene	50.0	41.5	1.24	0.600	-17.097	50.0	Linear	
1,4-Dichlorobenzene	50.0	41.9	1.28	0.400	-16.229	50.0	Linear	
n-Butylbenzene	50.0	40.4	2.08	0.050	-19.102	50.0	Linear	
1,2-Dichlorobenzene	50.0	41.8	1.20	0.400	-16.436	50.0	Linear	
1,2-Dibromo-3-Chloropropane	0.148	0.105	0.105	0.050	-28.808	50.0	Averaged	
1,2,4-Trichlorobenzene	50.0	36.9	0.696	0.200	-26.210	50.0	Linear	
Hexachlorobutadiene	50.0	39.1	0.354	0.100	-21.711	50.0	Linear	
Naphthalene	2.14	1.45	1.45	0.200	-32.174	50.0	Averaged	
1,2,3-Trichlorobenzene	0.781	0.545	0.545	0.100	-30.185	50.0	Averaged	
1,4-Dioxane	1000	879	0.004	0.001	-12.119	50.0	Linear	
Methyl Acetate	++++	++++	3.532e+56	0.100	++++	50.0	Linear	*
Freon TF	50.0	42.8	0.436	0.100	-14.337	50.0	Linear	
Diethyl ether	0.365	0.349	0.349	0.050	-4.190	50.0	Averaged	
1,3-Butadiene	50.0	43.9	0.283	0.050	-12.241	50.0	Linear	
Cyclohexane	50.0	42.8	0.762	0.100	-14.483	50.0	Linear	
Methylcyclohexane	50.0	41.7	0.412	0.100	-16.687	50.0	Linear	
n-Butanol	0.016	0.015	0.015	0.001	-8.155	50.0	Averaged	
Methyl Acrylate	50.0	46.0	0.506	0.100	-8.028	50.0	Linear	
Ethyl Acrylate	1.41	0.575	0.575	0.100	-59.157	50.0	Averaged	
n-Hexane	50.0	39.1	0.498	0.100	-21.740	50.0	Linear	
Tetrahydrofuran	100	93.1	0.087	0.050	-6.869	50.0	Linear	
Tert-butyl alcohol	0.037	0.026	0.026	0.005	-29.998	50.0	Averaged	
Isopropyl alcohol	1000	859	0.022	0.005	-14.121	50.0	Linear	
4-Methyl-2-pentanol	1000	783	0.103	0.005	-21.731	50.0	Linear	
1,2,3-Trimethylbenzene	2.58	2.16	2.16	0.100	-16.100	50.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project LHAAP Site 18/24

Workorder HS24060434

RunID X061541.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa7.i
Lab File ID X061541.D
Analysis Type WATER
Lab Sample ID VSTD50

Injection Date 16-JUN-2024 0516
ICAL Date(s) 12-JUN-2024, 15-JUN-2024
ICAL Times 11:43, 17:04
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Ethanol	1000	844	0.004	0.001	-15.581	50.0	Quadratic	
tert-Butyl formate	100	83.1	0.258	0.100	-16.923	50.0	Linear	
3,3-Dimethyl-1-butanol	1000	733	0.024	0.005	-26.657	50.0	Quadratic	
tert-Amyl methyl ether	50.0	45.8	1.40	0.050	-8.348	50.0	Linear	
tert-Butyl ethyl ether	1.70	1.55	1.55	0.100	-9.093	50.0	Averaged	
2-Methylnaphthalene	0.781	0.486	0.486	0.050	-37.735	50.0	Averaged	
Diisopropyl ether	1.99	1.86	1.86	0.050	-6.446	50.0	Averaged	
1-Methylnaphthalene	0.690	0.408	0.408	0.100	-40.843	50.0	Averaged	
Ethyl Acetate	50.0	38.9	2.70	0.010	-22.271	50.0	Linear	
tert-Amyl alcohol	1000	855	0.025	0.005	-14.538	50.0	Linear	
Epichlorohydrin	200	169	0.018	0.005	-15.334	50.0	Linear	
Butyl acrylate	50.0	45.2	0.768	0.100	-9.554	50.0	Linear	
Isobutylene	++++	++++	3.532e+56	0.100	++++	50.0	Linear	*
Isopropyl Acetate	50.0	42.2	0.850	0.100	-15.544	50.0	Linear	
n-Amyl acetate	50.0	38.2	0.626	0.100	-23.515	50.0	Linear	
Acetaldehyde	200	207	0.084	0.100	3.62	0.000e+000	Linear	<-
n-Butyl acetate	50.0	43.5	0.516	0.100	-13.100	50.0	Linear	
2-Etyhlhexyl Acrylate	50.0	30.4	0.358	0.100	-39.212	50.0	Quadratic	
Tetrahydrothiophene	50.0	45.8	0.362	0.100	-8.476	50.0	Linear	
sec-Butyl Ether	50.0	50.6	0.337	0.100	1.17	0.000e+000	Linear	*
Isoprene	50.0	54.4	0.167	0.100	8.87	50.0	Linear	
2-Chloropropene	0.860	0.760	0.760	0.100	-11.696	50.0	Averaged	
94 1,2-Dichloroethylene (total	100	++++	0.501	0.100	++++	50.0	Linear	*
95 Xylenes (total)	150	++++	0.498	0.100	++++	50.0	Linear	*

right solutions.
right partner.

Form 8

Internal Standard Area and RT Summary

<textMethods>

Workorder

HS24060434

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 18/24

07/15/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

ALS Houston, US Date: 15-Jul-24

Form 8 - Internal Standard Area and RT Summary

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060434
Contract: SAS No.:

Instrument ID: VOA7
Run ID: VOA7_469280
Date Time: 2024-06-12 16:17

Sample ID	IS1 Area	IS1 RT	IS2 Area	IS2 RT	IS3 Area	IS3 RT	IS4 Area	IS4 RT
12 HOUR STD	136740	5.13	219663	5.85	203093	8.47	100769	10.46
UPPER LIMIT	273480	5.63	439326	6.35	406186	8.97	201538	10.96
LOWER LIMIT	68370	4.63	109832	5.35	101547	7.97	50385	9.96
VSTD050	129127	5.13	215903	5.85	201770	8.47	104482	10.46
VLCSW-240612	134291	5.13	216595	5.85	203052	8.47	100804	10.46
VLSDW-240612	134046	5.13	219214	5.85	196433	8.47	94263	10.46
VBLKW-240612	127424	5.13	212721	5.85	208419	8.47	106198	10.46
ZZZZZZMS	126879	5.13	211768	5.85	202471	8.47	102863	10.46
ZZZZZZMSD	125990	5.13	211883	5.85	201283	8.47	105473	10.46
HS24060434-02	125968	5.13	206703	5.85	202738	8.47	97777	10.46
HS24060434-04	122613	5.13	203513	5.85	200885	8.47	97680	10.46
HS24060434-06	130530	5.13	214963	5.85	204043	8.47	98831	10.46
HS24060434-08	127176	5.13	211082	5.85	202897	8.47	99539	10.46
HS24060434-10	120076	5.13	200909	5.85	197626	8.47	94934	10.46
HS24060434-07	132744	5.13	218179	5.85	208508	8.47	102548	10.46
HS24060434-05	126324	5.13	208139	5.85	201824	8.47	98961	10.46
HS24060434-01	124938	5.13	205819	5.85	196686	8.47	96531	10.46
HS24060434-03	123874	5.13	207087	5.85	202398	8.47	98540	10.46

IS1 = Pentafluorobenzene
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5
IS4 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk
* Values outside of QC limits

ALS Houston, US Date: 15-Jul-24

Form 8 - Internal Standard Area and RT Summary

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060434
Contract: SAS No.:

Instrument ID: VOA7
Run ID: VOA7_469580
Date Time: 2024-06-15 18:35

Sample ID	IS1 Area	IS1 RT	IS2 Area	IS2 RT	IS3 Area	IS3 RT	IS4 Area	IS4 RT
12 HOUR STD	136227	5.13	227526	5.85	209133	8.47	109830	10.46
UPPER LIMIT	272454	5.63	455052	6.35	418266	8.97	219660	10.96
LOWER LIMIT	68114	4.63	113763	5.35	104567	7.97	54915	9.96
VSTD50	124741	5.13	212775	5.85	196704	8.47	105082	10.46
VLCSW-240615	144011	5.13	236601	5.85	214543	8.47	108099	10.46
VLCSDW-240615	134840	5.13	227658	5.85	207048	8.47	103396	10.46
VBLKW-240615	129701	5.13	216943	5.85	207060	8.47	106137	10.46
HS24060434-01MS	129511	5.13	214351	5.85	199549	8.47	102881	10.46
HS24060434-01MSD	127655	5.13	214775	5.85	199331	8.47	103987	10.46
HS24060434-01	126561	5.13	212945	5.85	202034	8.47	100331	10.46

IS1 = Pentafluorobenzene
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5
IS4 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk
* Values outside of QC limits

ALS Houston, US

Date: 15-Jul-24

Form 8 - Internal Standard Area and RT Summary

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060434
Contract: SAS No.:

Instrument ID: VOA9
Run ID: VOA9_469833
Date Time: 2024-06-18 15:51

Sample ID	IS1 Area	IS1 RT	IS2 Area	IS2 RT	IS3 Area	IS3 RT	IS4 Area	IS4 RT
12 HOUR STD	283787	4.81	412752	5.55	380612	8.19	212800	10.17
UPPER LIMIT	567574	5.31	825504	6.05	761224	8.69	425600	10.67
LOWER LIMIT	141894	4.31	206376	5.05	190306	7.69	106400	9.67
VSTD050	263777	4.82	383494	5.55	358926	8.19	199846	10.17
VLCSW-240618	279604	4.82	408176	5.55	375792	8.19	210349	10.17
VBLKW-240618	274559	4.82	401372	5.55	366904	8.19	200090	10.17
ZZZZZZMS	256334	4.82	374684	5.55	346380	8.19	194809	10.17
ZZZZZZMSD	264226	4.81	389506	5.55	353211	8.19	193782	10.17
HS24060434-08	255808	4.82	375238	5.55	344688	8.19	183619	10.17

IS1 = Pentafluorobenzene
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5
IS4 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk
* Values outside of QC limits

right solutions.
right partner.

Analysis Run Log

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24060434

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 18/24

07/15/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 18/24

Workorder **HS24060434**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA7-469269

Run ID VOA7_469269 **Start Date** 06/12/24 **EndDate** 06/12/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
11:43	VSTD00.5	ICAL1	VSTD00.5	P061203.D	06/12/24	1
12:05	VSTD001	ICAL2	VSTD001	P061204.D	06/12/24	1
12:28	VSTD002	ICAL3	VSTD002	P061205.D	06/12/24	1
12:51	VSTD005	ICAL4	VSTD005	P061206.D	06/12/24	1
13:14	VSTD010	ICAL5	VSTD010	P061207.D	06/12/24	1
13:37	VSTD020	ICAL6	VSTD020	P061208.D	06/12/24	1
14:00	VSTD050	ICAL7	VSTD050	P061209.D	06/12/24	1
14:23	VSTD100	ICAL8	VSTD100	P061210.D	06/12/24	1
14:46	VSTD200	ICAL9	VSTD200	P061211.D	06/12/24	1
16:17	VSTD050	ICV	VSTD050	P061215.D	06/12/24	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 18/24

Workorder **HS24060434**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA7-469280

Run ID VOA7_469280 **Start Date** 06/12/24 **EndDate** 06/13/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
16:17	VSTD050	CCV	VSTD050	P061215.D	06/12/24	1
16:40	VLCSW-240612	LCS	VLCSW-240612	P061216.D	06/12/24	1
17:03	VLSDW-240612	LCSD	VLSDW-240612	P061217.D	06/12/24	1
17:26	VBLKW-240612	MBLK	VBLKW-240612	P061218.D	06/12/24	1
18:12	HS24060214-10	SAMP	ZZZZZZZZZZ	P061220.D	06/12/24	100
19:20	HS24060214-10MS	MS	ZZZZZZMS	P061223.D	06/12/24	100
19:43	HS24060214-10MSD	MSD	ZZZZZZMSD	P061224.D	06/12/24	100
20:29	HS24051959-05	SAMP	ZZZZZZZZZZ	P061226.D	06/12/24	1
20:52	HS24051959-06	SAMP	ZZZZZZZZZZ	P061227.D	06/12/24	1
21:38	HS24060434-02	SAMP	18CPTMW01DW_0606	P061229.D	06/12/24	1
22:01	HS24060434-04	SAMP	102_060624	P061230.D	06/12/24	1
22:23	HS24060434-06	SAMP	18CPTMW07_060624	P061231.D	06/12/24	1
22:46	HS24060434-08	SAMP	MW8_060624	P061232.D	06/12/24	1
23:09	HS24060434-10	SAMP	Trip Blank	P061233.D	06/12/24	1
23:32	HS24060487-01	SAMP	ZZZZZZZZZZ	P061234.D	06/12/24	1
23:55	HS24060487-02	SAMP	ZZZZZZZZZZ	P061235.D	06/12/24	1
00:20	HS24060487-03	SAMP	ZZZZZZZZZZ	P061236.D	06/13/24	10
00:45	HS24060434-07	SAMP	18CPTMW24_060624	P061237.D	06/13/24	25
01:08	HS24060434-05	SAMP	102_060624_a	P061238.D	06/13/24	1
01:31	HS24060434-01	SAMP	MW2_060624	P061239.D	06/13/24	250
01:54	HS24060434-03	SAMP	18CPTMW01SW_0606	P061240.D	06/13/24	100
02:40	VSTD050	CCV_END	VSTD050	P061242.D	06/13/24	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 18/24

Workorder **HS24060434**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA7-469569

Run ID VOA7_469569 **Start Date** 06/15/24 **EndDate** 06/15/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
14:01	VSTD00.5	ICAL1	VSTD00.5	X061502.D	06/15/24	1
14:24	VSTD001	ICAL2	VSTD001	X061503.D	06/15/24	1
14:46	VSTD002	ICAL3	VSTD002	X061504.D	06/15/24	1
15:09	VSTD005	ICAL4	VSTD005	X061505.D	06/15/24	1
15:32	VSTD010	ICAL5	VSTD010	X061506.D	06/15/24	1
15:55	VSTD020	ICAL6	VSTD020	X061507.D	06/15/24	1
16:18	VSTD050	ICAL7	VSTD050	X061508.D	06/15/24	1
16:41	VSTD100	ICAL8	VSTD100	X061509.D	06/15/24	1
17:04	VSTD200	ICAL9	VSTD200	X061510.D	06/15/24	1
18:35	VSTD50	ICV	VSTD50	X061513A.D	06/15/24	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 18/24

Workorder **HS24060434**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA7-469580

Run ID VOA7_469580 **Start Date** 06/15/24 **EndDate** 06/16/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
18:35	VSTD50	CCV	VSTD50	X061513A.D	06/15/24	1
18:58	VLCSW-240615	LCS	VLCSW-240615	X061514.D	06/15/24	1
19:21	VLCSDW-240615	LCSD	VLCSDW-240615	X061515.D	06/15/24	1
20:07	VBLKW-240615	MBLK	VBLKW-240615	X061517.D	06/15/24	1
20:30	HS24060747-10	SAMP	ZZZZZZZZZZ	X061518.D	06/15/24	1
20:53	HS24060293-07	SAMP	ZZZZZZZZZZ	X061519.D	06/15/24	1
21:15	HS24060434-01	SAMP	MW2_060624	X061520.D	06/15/24	250
22:01	HS24060434-01MS	MS	HS24060434-01MS	X061522.D	06/15/24	250
22:24	HS24060434-01MSD	MSD	HS24060434-01MSD	X061523.D	06/15/24	250
00:19	HS24060293-01	SAMP	ZZZZZZZZZZ	X061528.D	06/16/24	1
00:41	HS24060293-03	SAMP	ZZZZZZZZZZ	X061529.D	06/16/24	1
01:04	HS24060293-04	SAMP	ZZZZZZZZZZ	X061530.D	06/16/24	1
01:27	HS24060293-05	SAMP	ZZZZZZZZZZ	X061531.D	06/16/24	1
01:50	HS24060293-06	SAMP	ZZZZZZZZZZ	X061532.D	06/16/24	1
02:13	HS24060487-06	SAMP	ZZZZZZZZZZ	X061533.D	06/16/24	1
02:36	HS24060487-07	SAMP	ZZZZZZZZZZ	X061534.D	06/16/24	1
02:59	HS24060487-08	SAMP	ZZZZZZZZZZ	X061535.D	06/16/24	1
03:22	HS24060487-10	SAMP	ZZZZZZZZZZ	X061536.D	06/16/24	1
03:45	HS24060487-09	SAMP	ZZZZZZZZZZ	X061537.D	06/16/24	10
04:08	HS24060487-04	SAMP	ZZZZZZZZZZ	X061538.D	06/16/24	100
04:30	HS24060487-05	SAMP	ZZZZZZZZZZ	X061539.D	06/16/24	100
05:16	VSTD50	CCV_END	VSTD50	X061541.D	06/16/24	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 18/24

Workorder **HS24060434**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-469810

Run ID VOA9_469810 **Start Date** 06/18/24 **EndDate** 06/18/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
11:33	VSTD00.25	ICAL1	VSTD00.25	U61802.D	06/18/24	1
11:55	VSTD00.5	ICAL2	VSTD00.5	U61803.D	06/18/24	1
12:16	VSTD001	ICAL3	VSTD001	U61804.D	06/18/24	1
12:38	VSTD002	ICAL4	VSTD002	U61805.D	06/18/24	1
12:59	VSTD005	ICAL5	VSTD005	U61806.D	06/18/24	1
13:21	VSTD020	ICAL6	VSTD020	U61807.D	06/18/24	1
13:42	VSTD050	ICAL7	VSTD050	U61808.D	06/18/24	1
14:04	VSTD100	ICAL8	VSTD100	U61809.D	06/18/24	1
14:25	VSTD150	ICAL9	VSTD150	U61810.D	06/18/24	1
14:47	VSTD200	ICAL	VSTD200	U61811.D	06/18/24	1
15:51	VSTD050	ICV	VSTD050	U61814.D	06/18/24	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project LHAAP Site 18/24

Workorder **HS24060434**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA9-469833

Run ID VOA9_469833 **Start Date** 06/18/24 **EndDate** 06/19/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
15:51	VSTD050	CCV	VSTD050	U61814.D	06/18/24	1
16:34	VLCSW-240618	LCS	VLCSW-240618	U61815.D	06/18/24	1
17:38	VBLKW-240618	MBLK	VBLKW-240618	U61818.D	06/18/24	1
21:59	HS24060379-09	SAMP	ZZZZZZZZZZ	U61830.D	06/18/24	100
22:21	HS24060379-09MS	MS	ZZZZZZMS	U61831.D	06/18/24	100
22:42	HS24060379-09MSD	MSD	ZZZZZZMSD	U61832.D	06/18/24	100
23:04	HS24060434-08	SAMP	MW8_060624	U61833.D	06/18/24	25
23:25	HS24060487-09	SAMP	ZZZZZZZZZZ	U61834.D	06/18/24	500
02:47	VSTD050	CCV_END	VSTD050	U61843.D	06/19/24	1

right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24060434

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 18/24

07/15/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Data File: \\nahstws005\Target\chem\voa7.i\P240612.b\P061202.D Page 1
Report Date: 13-Jun-2024 09:46

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa7.i\P240612.b\P061202.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 12-JUN-2024 11:20
Operator : AP Inst ID: voa7.i
Smp Info : BFB
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240612.b\bfb.m
Meth Date : 25-Mar-2024 14:28 apoluri Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 5 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7066

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/l)		
RT	EXP RT	REL RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
9.473	9.474	(0.000)	95	61208			0.00- 100.00	100.00
9.473	9.474	(0.000)	50	12987			15.00- 40.00	21.22
9.473	9.474	(0.000)	75	31520			30.00- 60.00	51.50
9.473	9.474	(0.000)	96	3974			5.00- 9.00	6.49
9.473	9.474	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.473	9.474	(0.000)	174	48440			50.00- 0.00	79.14
9.473	9.474	(0.000)	175	3694			5.00- 9.00	7.63
9.473	9.474	(0.000)	176	46752			95.00- 101.00	96.52
9.473	9.474	(0.000)	177	2945			5.00- 9.00	6.30

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	21.22
75	30.00 - 60.00% of mass 95	51.50
96	5.00 - 9.00% of mass 95	6.49
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	79.14
175	5.00 - 9.00% of mass 174	6.04 (7.63)
176	95.00 - 101.00% of mass 174	76.38 (96.52)
177	5.00 - 9.00% of mass 176	4.81 (6.30)

Data File: P061202.D
Spectrum: Avg. Scans 2762-2766 (9.47)
Location of Maximum: 95.00
Number of points: 68

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	581	62.00	3109	86.00	31	129.00	47
37.00	3396	63.00	2281	87.00	2072	130.00	230
38.00	3042	64.00	213	88.00	2068	135.00	64
39.00	1181	67.00	106	91.00	221	141.00	619
40.00	184	68.00	6505	92.00	1662	142.00	69
44.00	639	69.00	6848	93.00	2633	143.00	808
45.00	527	70.00	434	94.00	6920	146.00	31
47.00	762	72.00	340	95.00	61208	148.00	142
48.00	424	73.00	2800	96.00	3974	155.00	81
49.00	2929	74.00	10619	97.00	111	172.00	50
50.00	12987	75.00	31520	104.00	274	174.00	48440
51.00	4026	76.00	2757	105.00	33	175.00	3694
52.00	152	77.00	315	106.00	250	176.00	46752
55.00	181	78.00	157	116.00	180	177.00	2945
56.00	897	79.00	1480	117.00	375		
57.00	1596	80.00	424	118.00	175		
60.00	565	81.00	1491	119.00	264		
61.00	3004	82.00	316	128.00	211		

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061203.D Page 1
Report Date: 22-Jun-2024 12:21

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061203.D
Lab Smp Id: VSTD00.5 Client Smp ID: VSTD00.5
Inj Date : 12-JUN-2024 11:43
Operator : AP Inst ID: voa7.i
Smp Info : VSTD00.5
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240612.b\8260W.m
Meth Date : 22-Jun-2024 12:21 voa7.i Quant Type: ISTD
Cal Date : 12-JUN-2024 11:43 Cal File: P061203.D
Als bottle: 6 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	5.133	5.133	(1.000)	121656	50.0000	
2 Dichlorodifluoromethane	85	1.297	1.297	(0.253)	1093	0.50000	0.66(a)
159 Dichlorofluoromethane	67	2.075	2.075	(0.404)	1360	0.50000	0.54(aM)
3 Chloromethane	50	1.448	1.448	(0.282)	2074	0.50000	0.34(a)
4 Propionitrile	54	4.683	4.683	(0.912)	1322	5.00000	3.02(aM)
5 Vinyl Chloride	62	1.532	1.532	(0.298)	1472	0.50000	0.73(a)
6 Bromomethane	94	1.811	1.811	(0.353)	1396	0.50000	0.51(a)
7 Chloroethane	64	1.895	1.895	(0.369)	1072	0.50000	0.65(a)
8 Trichlorofluoromethane	101	2.110	2.110	(0.411)	1621	0.50000	0.97(a)
11 1,1-Dichloroethene	96	2.593	2.593	(0.505)	724	0.50000	0.61(a)
12 Isobutyl Alcohol	43	5.573	5.573	(1.086)	4080	10.0000	5.61(a)
13 Acetonitrile	39	2.962	2.962	(0.577)	1111	5.00000	4.08(a)
15 Iodomethane	142	2.734	2.734	(0.533)	229	1.00000	5.34(M)
16 Acrylonitrile	53	3.387	3.387	(0.660)	660	1.00000	1.17(a)
17 Methylene Chloride	84	3.094	3.094	(0.603)	2439	0.50000	0.50(a)
18 Methyl tert-butyl ether	73	3.387	3.387	(0.660)	2199	0.50000	1.59
19 Carbon Disulfide	76	2.795	2.795	(0.545)	6927	1.00000	2.19
20 trans-1,2-Dichloroethene	96	3.377	3.377	(0.658)	816	0.50000	0.62(a)
21 Vinyl Acetate	43	4.657	4.657	(0.907)	1782	1.00000	0.76(a)
22 1,1-Dichloroethane	63	3.863	3.863	(0.753)	2252	0.50000	0.75(Ta)

23 Chloroprene	53	3.966	3.966 (0.773)	1484	0.50000	0.65(aM)
24 2-Butanone	43	4.599	4.599 (0.896)	2105	1.00000	1.13(a)

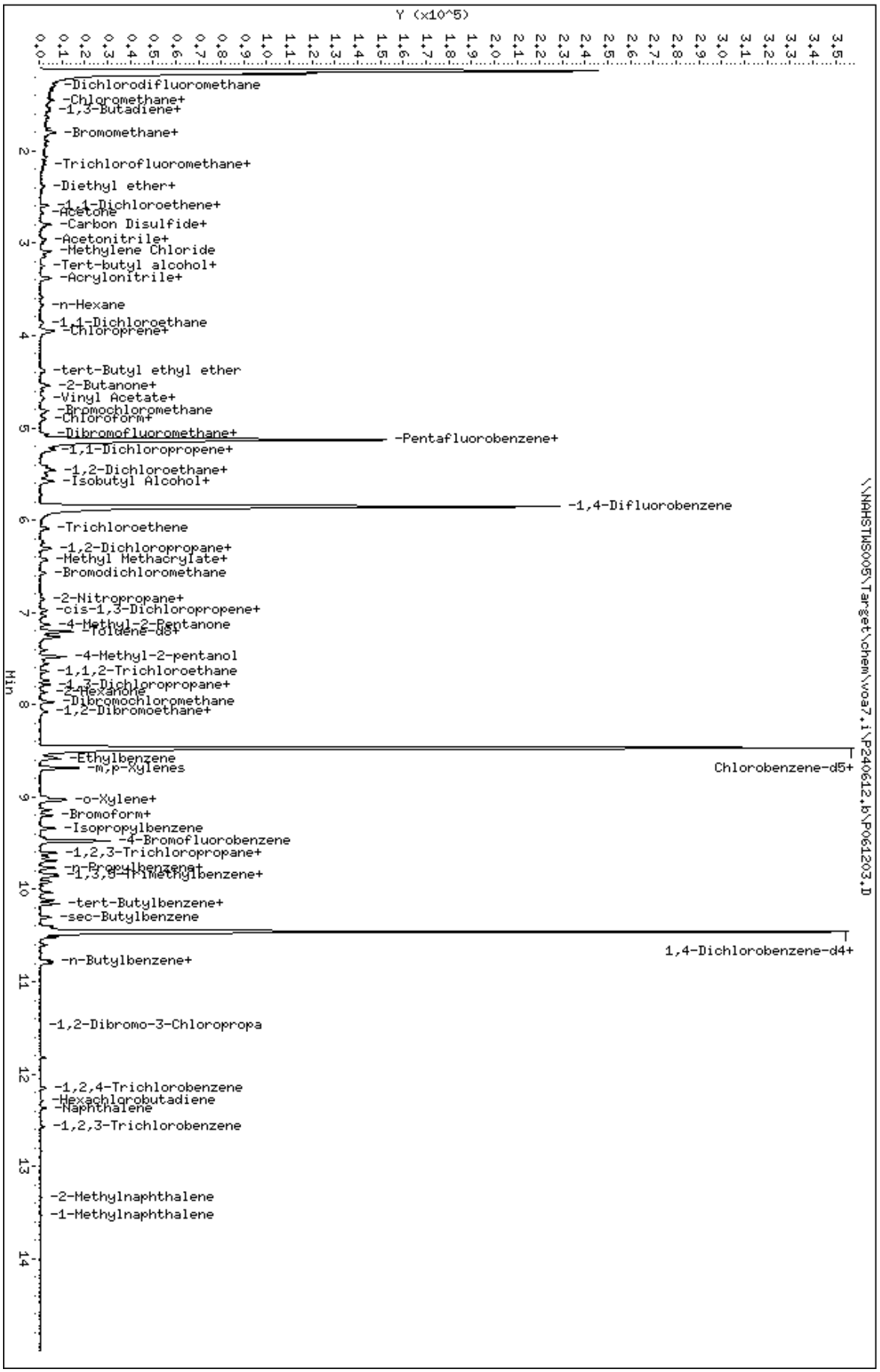
		QUANT SIG					AMOUNTS	
							CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
	25 Methacrylonitrile	41	2.152	2.152	(0.419)	1023	0.50000	1.63(TaM)
	26 2,2-Dichloropropane	77	4.541	4.541	(0.885)	1654	0.50000	1.21
	27 cis-1,2-Dichloroethene	96	4.544	4.544	(0.885)	1278	0.50000	0.90(a)
	28 Chloroform	83	4.901	4.901	(0.955)	2578	0.50000	0.71(a)
$	30 Dibromofluoromethane	113	5.069	5.069	(0.987)	1653	0.50000	0.83(a)
	31 1,1,1-Trichloroethane	97	5.069	5.069	(0.987)	1701	0.50000	1.21
	32 1,1-Dichloropropene	75	5.245	5.245	(0.896)	1918	0.50000	1.23
	33 1,2-Dichloroethane	62	5.487	5.487	(0.937)	1842	0.50000	0.44(a)
	34 Carbon Tetrachloride	117	5.236	5.236	(0.895)	1649	0.50000	1.45
$	35 1,2-Dichloroethane-d4	65	5.422	5.422	(1.056)	2754	0.50000	0.84(a)
*	36 1,4-Difluorobenzene	114	5.853	5.853	(1.000)	200087	50.0000	
	37 Benzene	78	5.454	5.454	(0.932)	5601	0.50000	0.74(a)
	38 Trichloroethene	130	6.088	6.088	(1.040)	1116	0.50000	0.79(a)
	39 Bromodichloromethane	83	6.570	6.570	(1.122)	1982	0.50000	1.03(M)
	41 2-Chloroethylvinyl ether	63	6.856	6.856	(1.171)	845	1.00000	0.91(aM)
	42 1,2-Dichloropropane	63	6.303	6.303	(1.077)	1394	0.50000	0.76(a)
	43 2-Nitropropane	43	6.798	6.798	(1.324)	364	0.50000	1.43(a)
	44 Dibromomethane	93	6.422	6.422	(1.097)	739	0.50000	0.69(a)
	46 cis-1,3-Dichloropropene	75	6.972	6.972	(1.191)	1985	0.50000	1.63
*	47 Chlorobenzene-d5	117	8.467	8.467	(1.000)	186770	50.0000	
$	48 Toluene-d8	98	7.207	7.207	(0.851)	10382	0.50000	0.98(a)
	49 Ethyl Methacrylate	69	8.075	8.075	(1.380)	670	0.50000	0.77(aM)
	51 trans-1,3-Dichloropropene	75	6.972	6.972	(1.191)	1985	0.50000	1.63
	55 Dibromochloromethane	129	7.975	7.975	(0.942)	1235	0.50000	0.63(a)
	56 Tetrachloroethene	164	7.737	7.737	(0.914)	867	0.50000	0.43(a)
	59 Chlorobenzene	112	8.493	8.493	(1.003)	3539	0.50000	0.22(a)
	60 1,1,1,2-Tetrachloroethane	131	8.567	8.567	(1.012)	1160	0.50000	0.84(a)
	61 Ethylbenzene	106	8.583	8.583	(1.014)	1538	0.50000	0.37(a)
	62 m,p-Xylenes	106	8.683	8.683	(1.025)	4347	1.00000	0.76(a)
	64 Styrene	104	9.043	9.043	(1.068)	3179	0.50000	0.51(a)
	66 Bromoform	173	9.203	9.203	(1.087)	644	0.50000	0.85(Ta)
	67 Isopropylbenzene	105	9.342	9.342	(1.103)	4616	0.50000	0.31(a)
$	69 4-Bromofluorobenzene	95	9.470	9.470	(1.118)	9582	0.50000	3.33
*	70 1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	84805	50.0000	
	82 p-Isopropyltoluene	119	10.425	10.425	(0.997)	3153	0.50000	0.65(a)
	87 n-Butylbenzene	91	10.772	10.772	(1.030)	2707	0.50000	0.61(a)
	90 1,2,4-Trichlorobenzene	180	12.155	12.155	(1.162)	1060	0.50000	0.80(a)
	92 Naphthalene	128	12.374	12.374	(1.183)	2539	0.50000	0.74(a)
	93 1,2,3-Trichlorobenzene	182	12.563	12.563	(1.201)	874	0.50000	1.03(TM)
	146 Methyl acetate	43	3.001	3.001	(0.585)	1098	0.50000	0.35(aM)
	138 Freon TF	101	2.593	2.593	(0.505)	660	0.50000	1.12
	139 Diethyl ether	59	2.374	2.374	(0.463)	418	0.50000	0.86(a)
	140 1,3-Butadiene	54	1.557	1.557	(0.303)	396	0.50000	1.33(a)
	141 Cyclohexane	56	5.130	5.130	(0.999)	3622	0.50000	1.52(a)
	147 Methylcyclohexane	83	6.245	6.245	(1.067)	580	0.50000	1.29
	133 Ethyl Acrylate	55	6.220	6.220	(1.212)	1514	0.50000	0.43(aM)
	136 n-Hexane	57	3.670	3.670	(0.715)	630	0.50000	1.50
	142 Tetrahydrofuran	42	4.866	4.866	(0.948)	212	1.00000	1.65(aM)
	149 Isopropyl alcohol	45	2.824	2.824	(0.550)	1271	10.0000	14.38(aM)
	151 4-Methyl-2-pentanol	45	7.480	7.480	(0.883)	6970	10.0000	21.88
	157 2-Methylnaphthalene	142	13.338	13.338	(1.275)	184	0.50000	3.16(M)
	156 Diisopropyl ether	45	3.953	3.953	(0.770)	2859	0.50000	0.84(aM)

171 1-Methylnaphthalene	142	13.528	13.528 (1.294)	153	0.50000	2.78
130 Ethyl Acetate	43	3.946	3.946 (0.769)	8116	0.50000	1.48(aM)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
160 Epichlorohydrin	57	6.911	6.911	(1.181)	102	2.00000	0.62(a)
161 Butyl acrylate	55	9.001	9.001	(1.063)	2462	0.50000	1.14(a)
183 Isopropyl Acetate	43	5.573	5.573	(0.952)	4080	0.50000	0.09(aA)
184 n-Amyl acetate	43	9.194	9.194	(1.086)	2963	0.50000	1.93(aA)
185 Acetaldehyde	44	1.625	1.625	(0.317)	4899	2.00000	(aM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\NAHSTMS005\Target\chem\voa7.i\P240612.b\P061203.D
Date : 12-JUN-2024 11:43
Client ID: VSTD00.5
Sample Info: VSTD00.5
Purge Volume: 5.0
Column phase: DB624

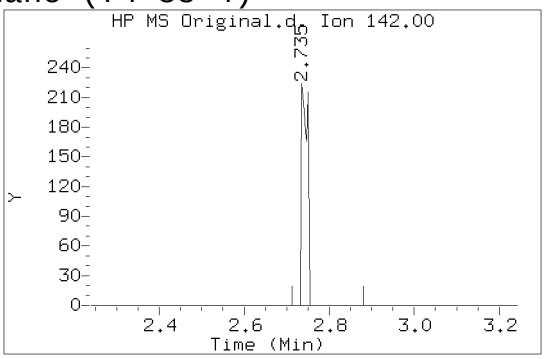
Instrument: voa7.i
Operator: AP
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061203.D
Inj Date : 12-JUN-2024 11:43
InstruID : voa7.i
LabSampID : VSTD00.5

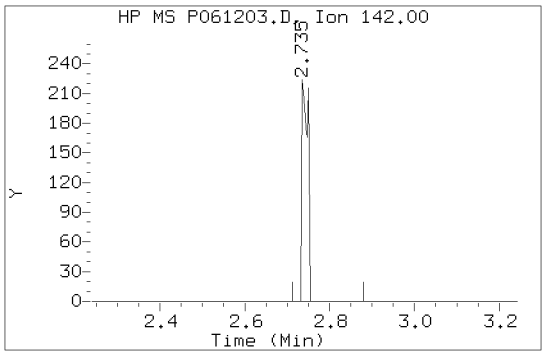
Iodomethane (74-88-4)

Reason Code:

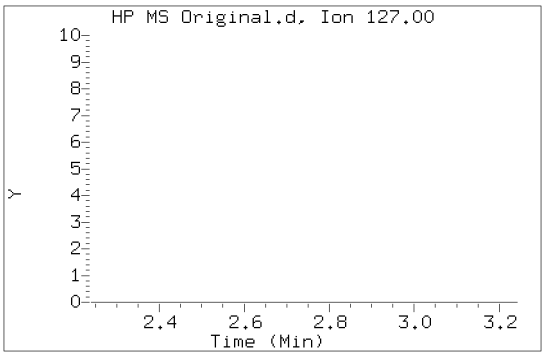
BEFORE
MASS
142
AREA
229
HEIGHT
224
22-Jun-2024
12:20
RUCHA
PATEL



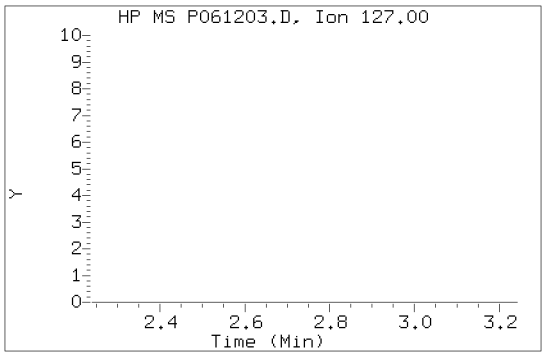
AFTER
MASS
142
AREA
229
HEIGHT
224
22-Jun-2024
12:20
RUCHA
PATEL



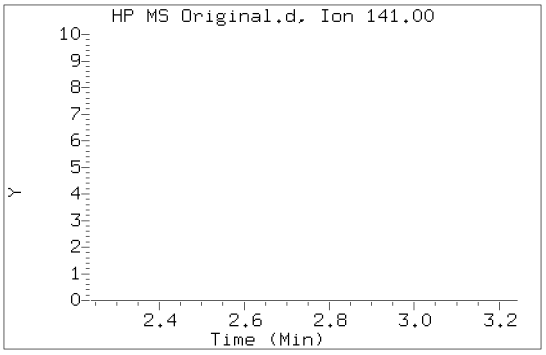
BEFORE
MASS
127
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



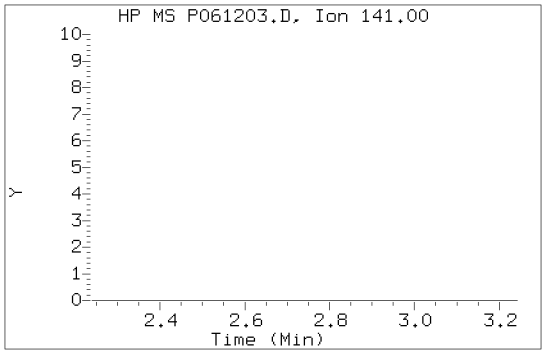
AFTER
MASS
127
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



BEFORE
MASS
141
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



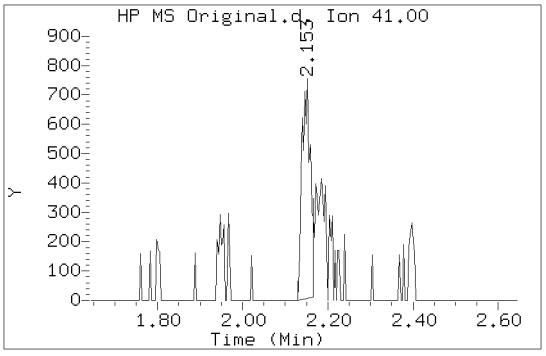
AFTER
MASS
141
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



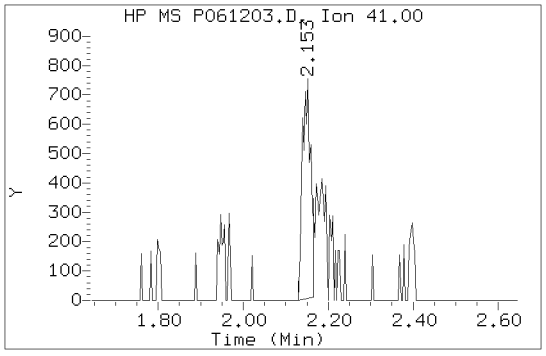
Methacrylonitrile (126-98-7)

Reason Code:

BEFORE
MASS
41
AREA
1023
HEIGHT
748
22-Jun-2024
12:20
RUCHA
PATEL



AFTER
MASS
41
AREA
1023
HEIGHT
748
22-Jun-2024
12:20
RUCHA
PATEL

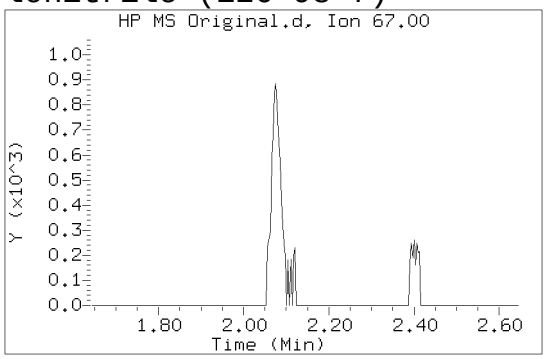


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061203.D
Inj Date : 12-JUN-2024 11:43
InstruID : voa7.i
LabSampID : VSTD00.5

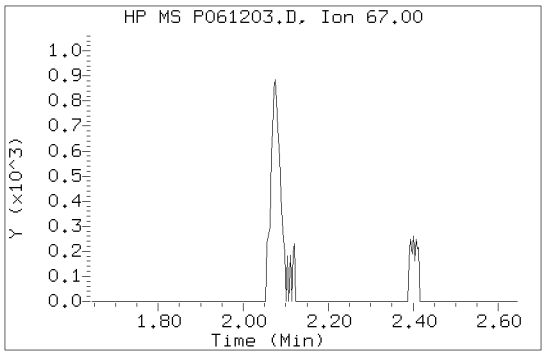
Methacrylonitrile (126-98-7)

Reason Code:

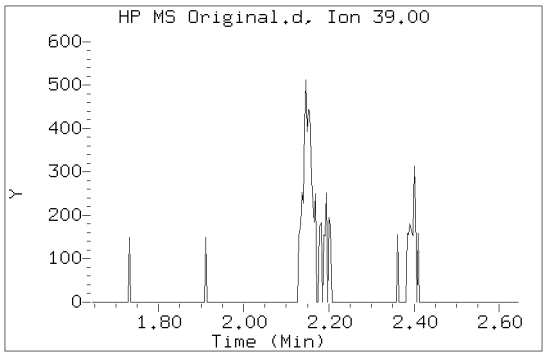
BEFORE
MASS
67
AREA
270
HEIGHT
285
22-Jun-2024
12:20
RUCHA
PATEL



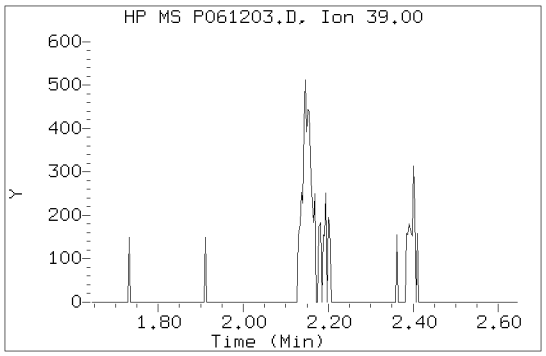
AFTER
MASS
67
AREA
270
HEIGHT
285
22-Jun-2024
12:20
RUCHA
PATEL



BEFORE
MASS
39
AREA
198
HEIGHT
267
22-Jun-2024
12:20
RUCHA
PATEL



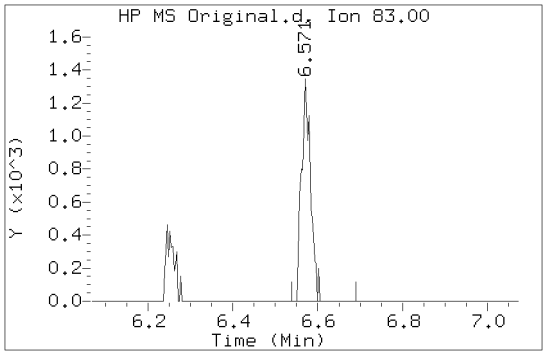
AFTER
MASS
39
AREA
198
HEIGHT
267
22-Jun-2024
12:20
RUCHA
PATEL



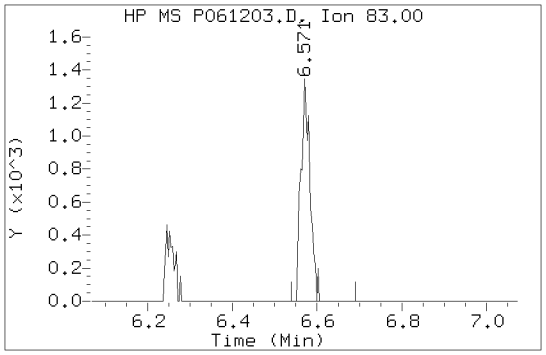
Bromodichloromethane (75-27-4)

Reason Code:

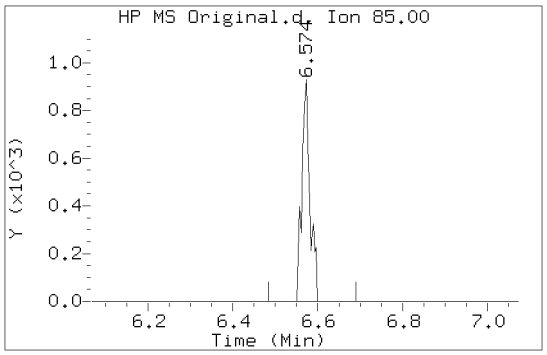
BEFORE
MASS
83
AREA
1982
HEIGHT
1346
22-Jun-2024
12:20
RUCHA
PATEL



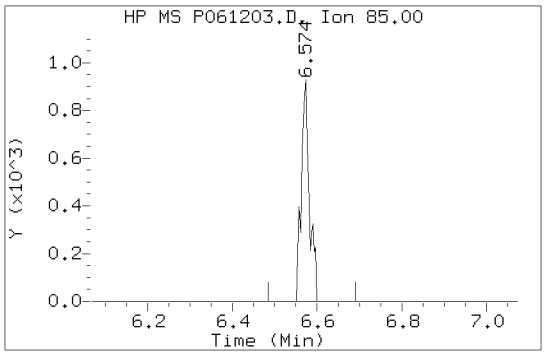
AFTER
MASS
83
AREA
1982
HEIGHT
1346
22-Jun-2024
12:20
RUCHA
PATEL



BEFORE
MASS
85
AREA
1250
HEIGHT
929
22-Jun-2024
12:20
RUCHA
PATEL



AFTER
MASS
85
AREA
1250
HEIGHT
929
22-Jun-2024
12:20
RUCHA
PATEL



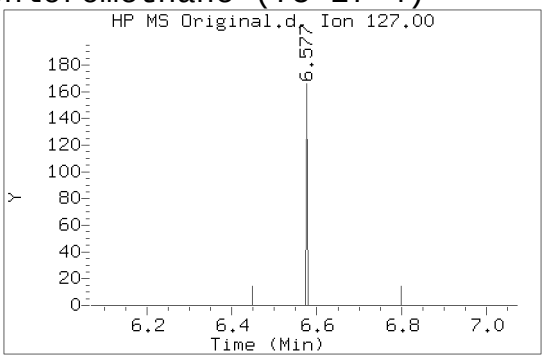
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061203.D
Inj Date : 12-JUN-2024 11:43
InstruID : voa7.i
LabSampID : VSTD00.5

Bromodichloromethane (75-27-4)

Reason Code:

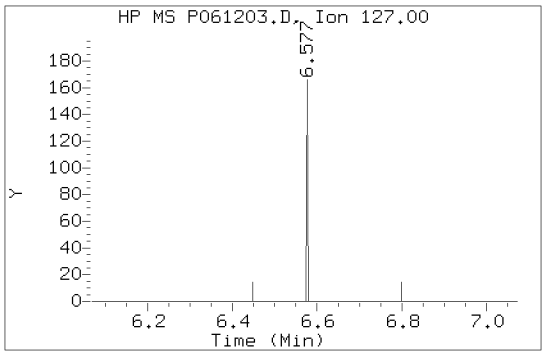
BEFORE

MASS
127
AREA
32
HEIGHT
166
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
127
AREA
32
HEIGHT
166
22-Jun-2024
12:20
RUCHA
PATEL

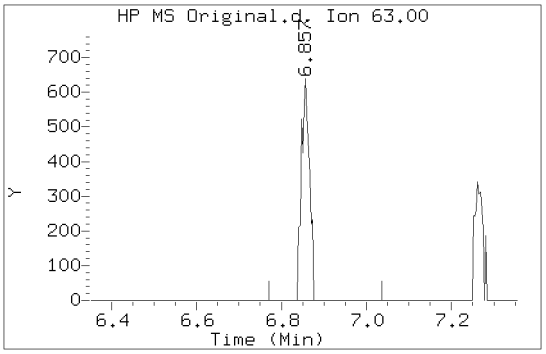


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

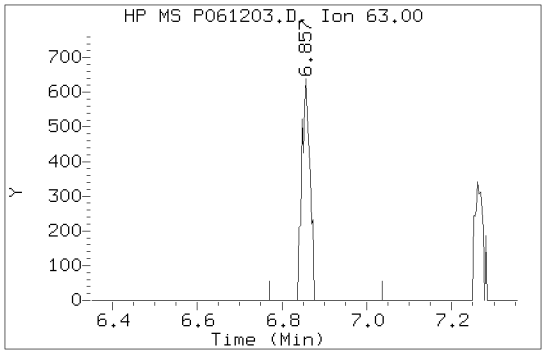
BEFORE

MASS
63
AREA
845
HEIGHT
639
22-Jun-2024
12:20
RUCHA
PATEL



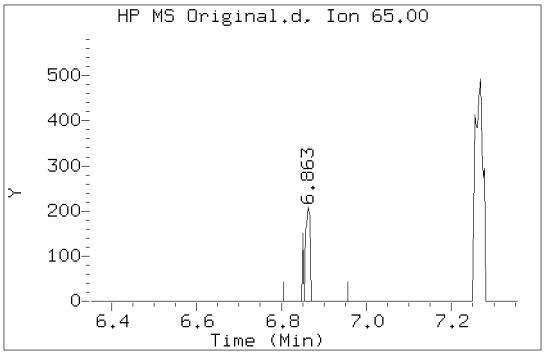
AFTER

MASS
63
AREA
845
HEIGHT
639
22-Jun-2024
12:20
RUCHA
PATEL



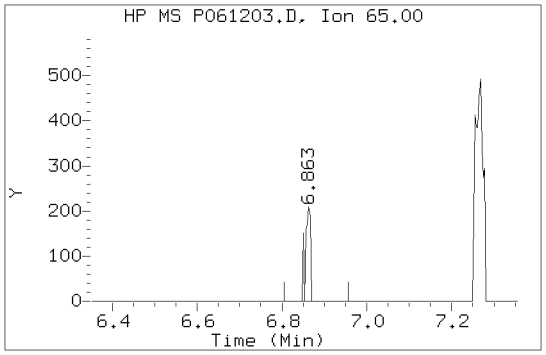
BEFORE

MASS
65
AREA
168
HEIGHT
209
22-Jun-2024
12:20
RUCHA
PATEL



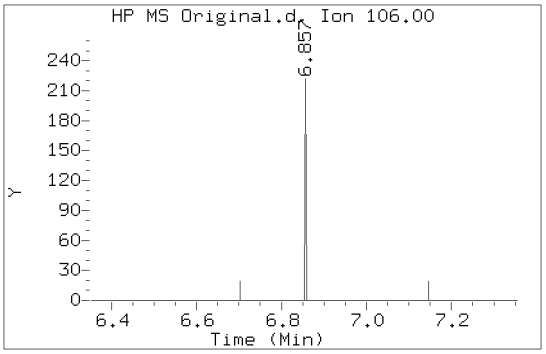
AFTER

MASS
65
AREA
168
HEIGHT
209
22-Jun-2024
12:20
RUCHA
PATEL



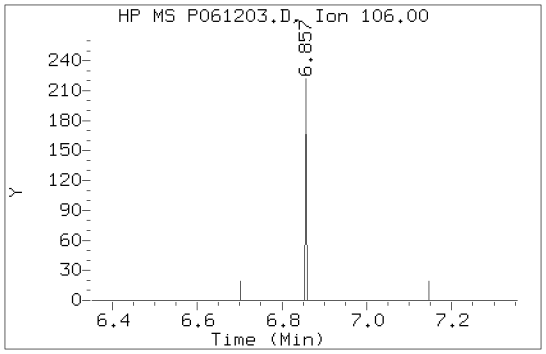
BEFORE

MASS
106
AREA
42
HEIGHT
222
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
106
AREA
42
HEIGHT
222
22-Jun-2024
12:20
RUCHA
PATEL



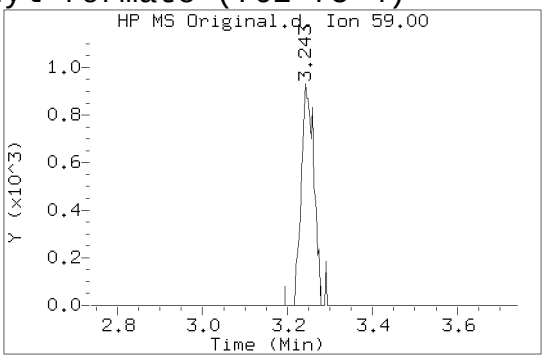
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061203.D
Inj Date : 12-JUN-2024 11:43
InstruID : voa7.i
LabSampID : VSTD00.5

tert-Butyl formate (762-75-4)

Reason Code:

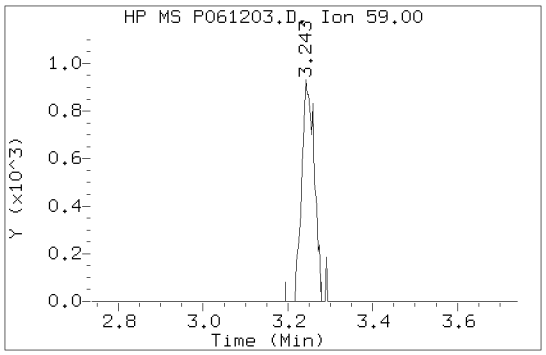
BEFORE

MASS
59
AREA
1899
HEIGHT
932
22-Jun-2024
12:20
RUCHA
PATEL



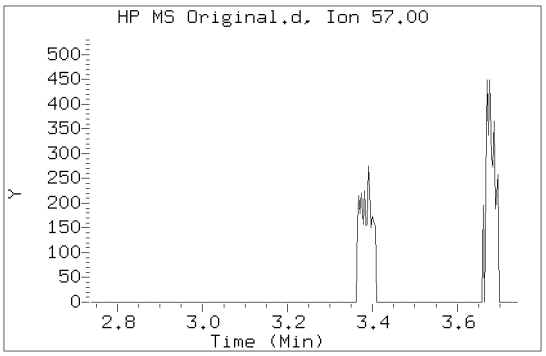
AFTER

MASS
59
AREA
1899
HEIGHT
932
22-Jun-2024
12:20
RUCHA
PATEL



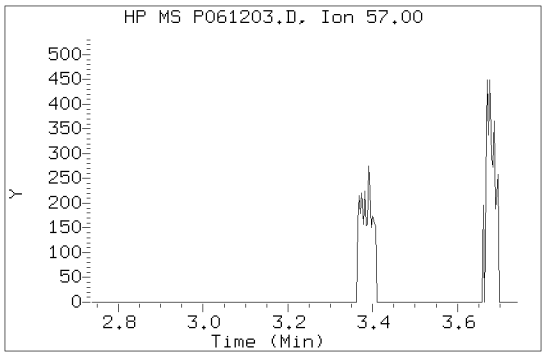
BEFORE

MASS
57
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



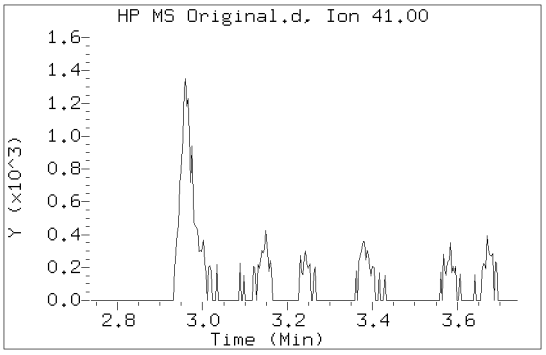
AFTER

MASS
57
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



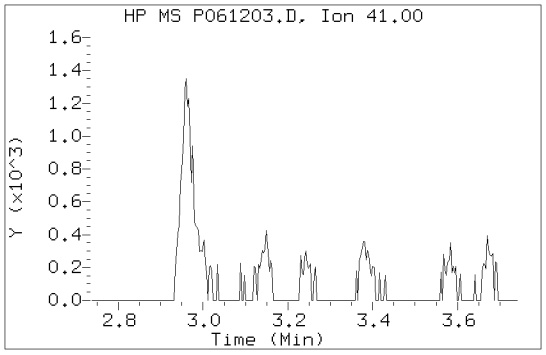
BEFORE

MASS
41
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
41
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL

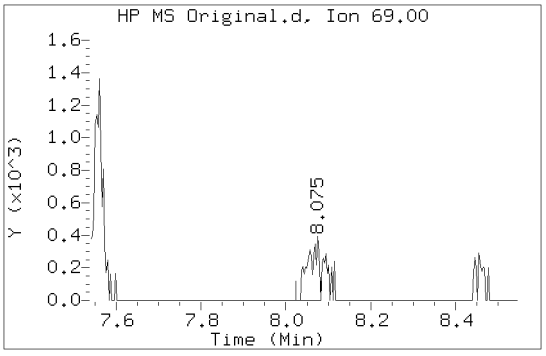


Ethyl Methacrylate (97-63-2)

Reason Code:

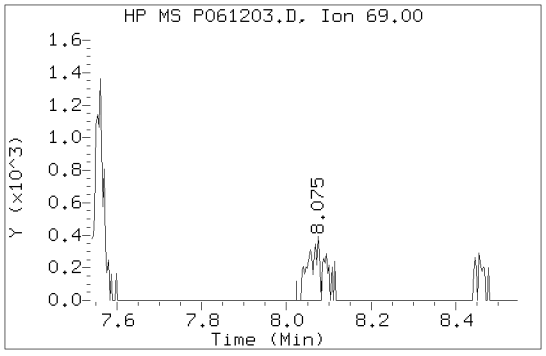
BEFORE

MASS
69
AREA
670
HEIGHT
395
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
69
AREA
670
HEIGHT
395
22-Jun-2024
12:20
RUCHA
PATEL



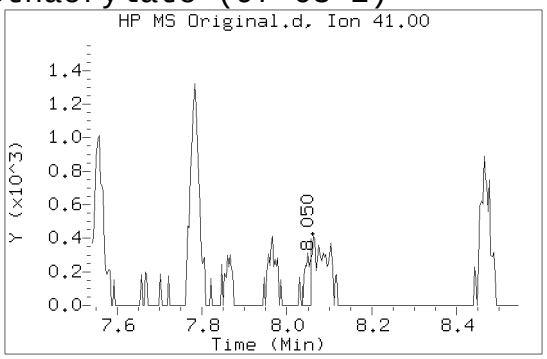
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061203.D
Inj Date : 12-JUN-2024 11:43
InstruID : voa7.i
LabSampID : VSTD00.5

Ethyl Methacrylate (97-63-2)

Reason Code:

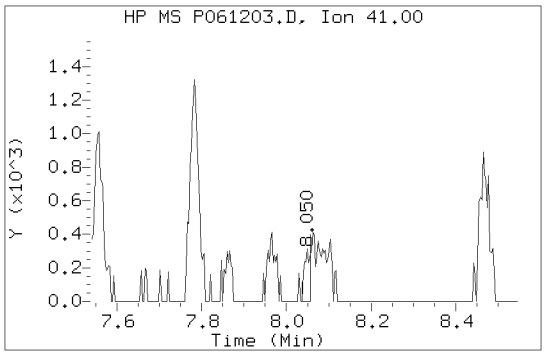
BEFORE

MASS
41
AREA
283
HEIGHT
315
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
41
AREA
283
HEIGHT
315
22-Jun-2024
12:20
RUCHA
PATEL

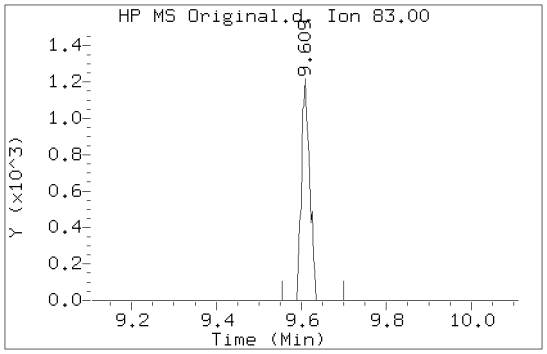


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

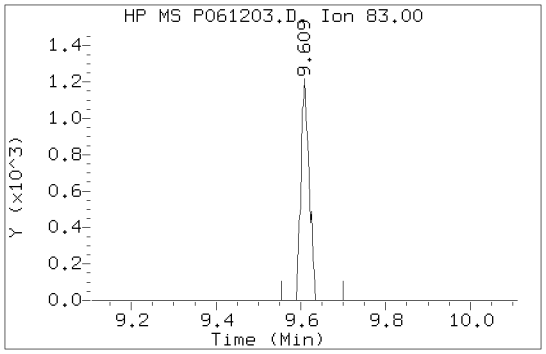
BEFORE

MASS
83
AREA
1638
HEIGHT
1218
22-Jun-2024
12:20
RUCHA
PATEL



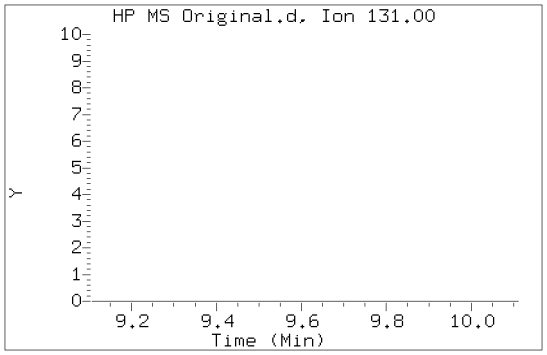
AFTER

MASS
83
AREA
1638
HEIGHT
1218
22-Jun-2024
12:20
RUCHA
PATEL



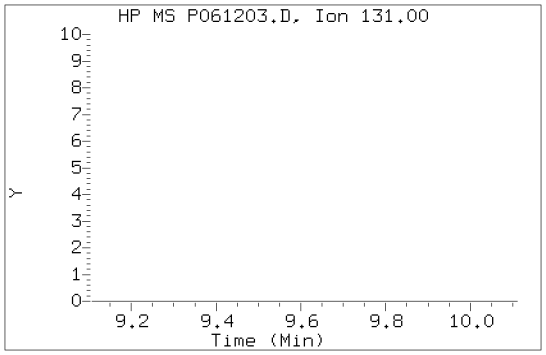
BEFORE

MASS
131
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



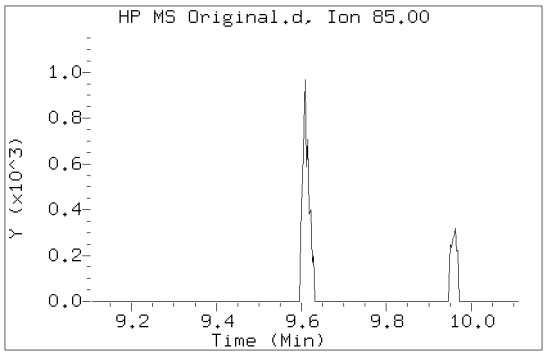
AFTER

MASS
131
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



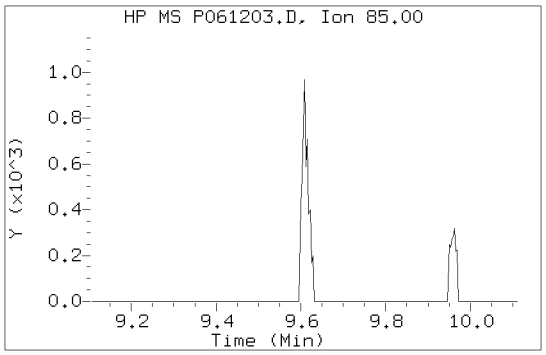
BEFORE

MASS
85
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
85
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



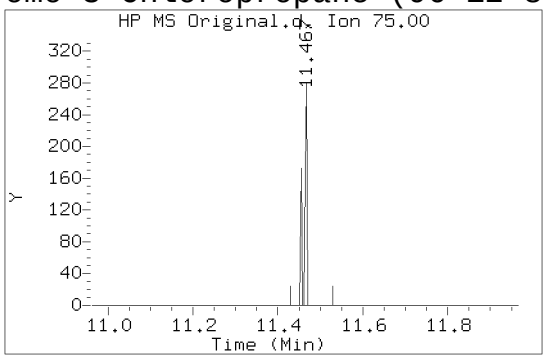
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061203.D
Inj Date : 12-JUN-2024 11:43
InstruID : voa7.i
LabSampID : VSTD00.5

1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

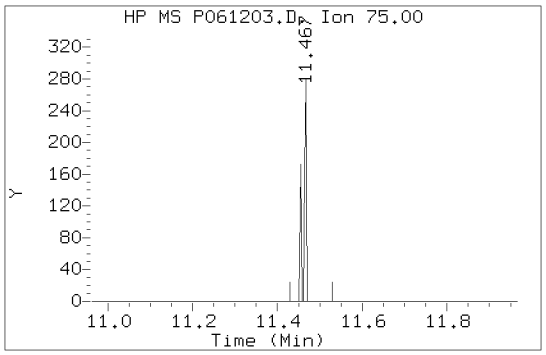
BEFORE

MASS
75
AREA
119
HEIGHT
279
22-Jun-2024
12:20
RUCHA
PATEL



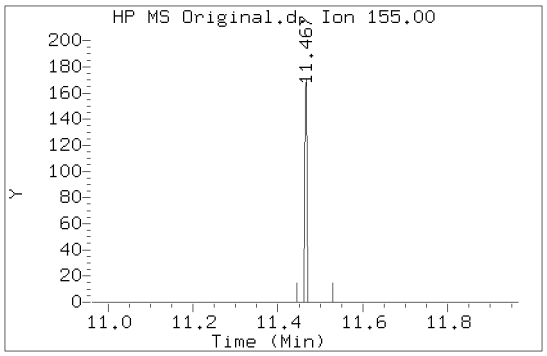
AFTER

MASS
75
AREA
119
HEIGHT
279
22-Jun-2024
12:20
RUCHA
PATEL



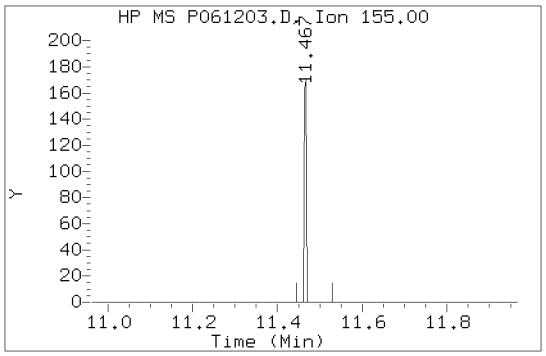
BEFORE

MASS
155
AREA
64
HEIGHT
170
22-Jun-2024
12:20
RUCHA
PATEL



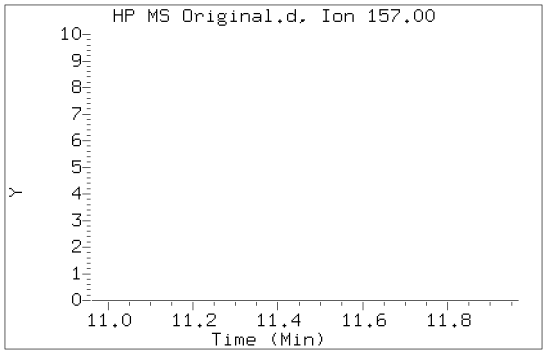
AFTER

MASS
155
AREA
64
HEIGHT
170
22-Jun-2024
12:20
RUCHA
PATEL



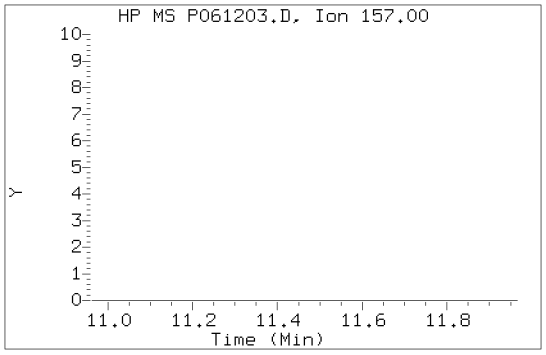
BEFORE

MASS
157
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
157
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL

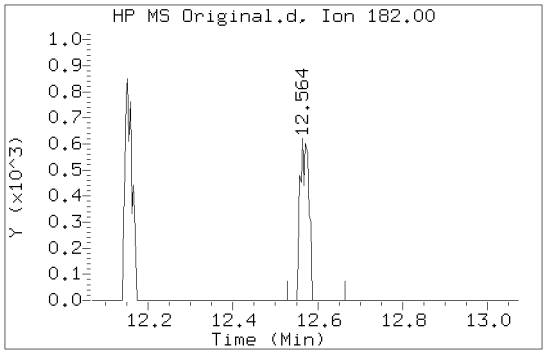


1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

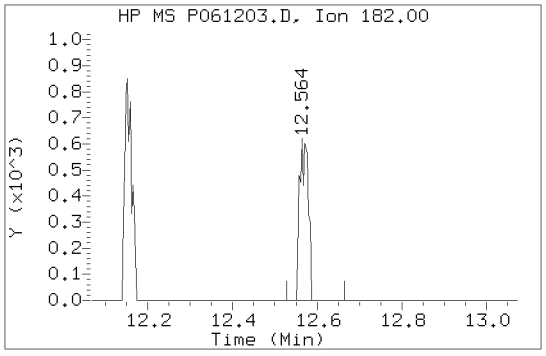
BEFORE

MASS
182
AREA
874
HEIGHT
623
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
182
AREA
874
HEIGHT
623
22-Jun-2024
12:20
RUCHA
PATEL



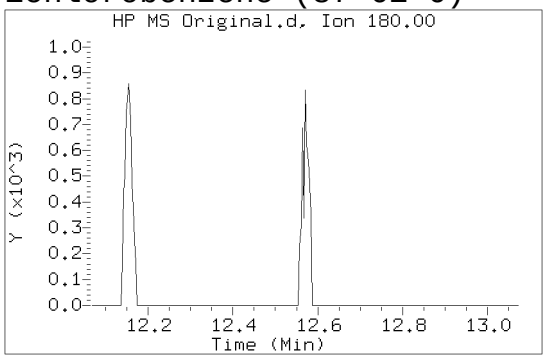
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061203.D
Inj Date : 12-JUN-2024 11:43
InstruID : voa7.i
LabSampID : VSTD00.5

1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

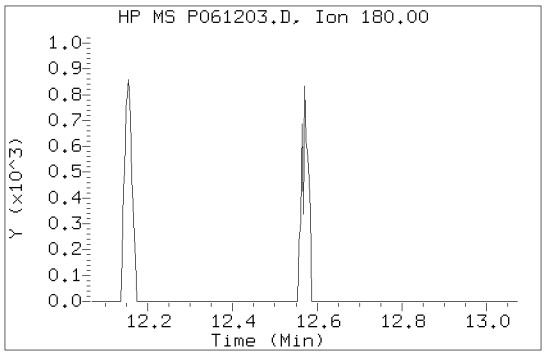
BEFORE

MASS
180
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



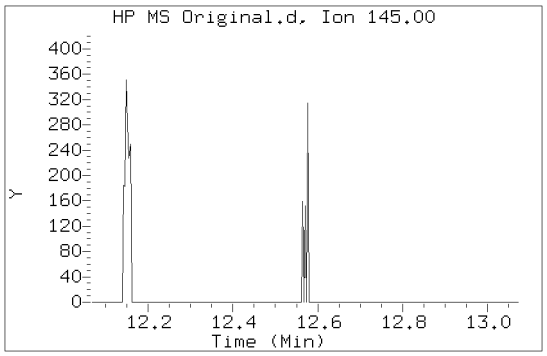
AFTER

MASS
180
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



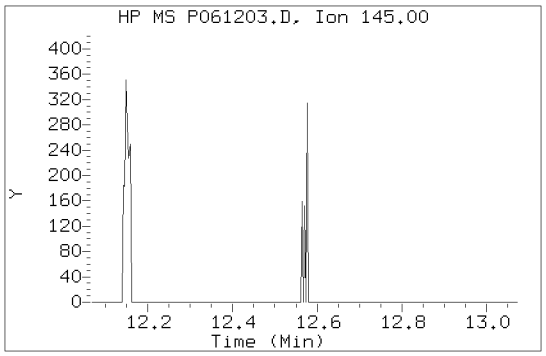
BEFORE

MASS
145
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
145
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL

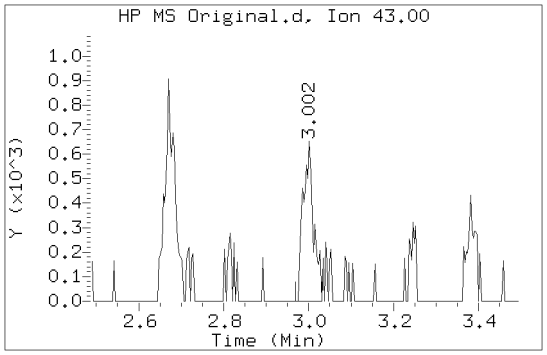


Methyl acetate (79-20-9)

Reason Code:

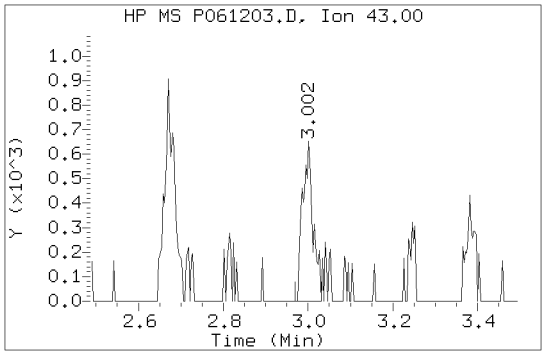
BEFORE

MASS
43
AREA
1098
HEIGHT
654
22-Jun-2024
12:20
RUCHA
PATEL



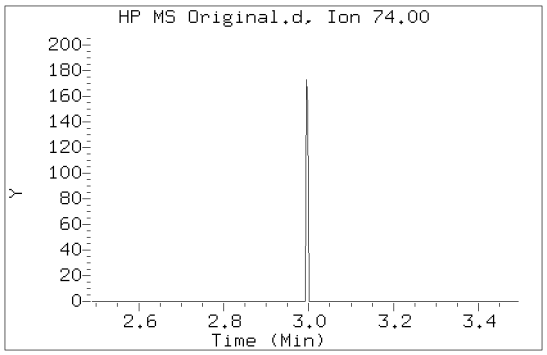
AFTER

MASS
43
AREA
1098
HEIGHT
654
22-Jun-2024
12:20
RUCHA
PATEL



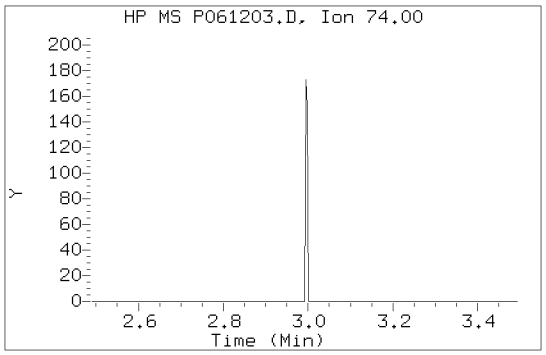
BEFORE

MASS
74
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
74
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL

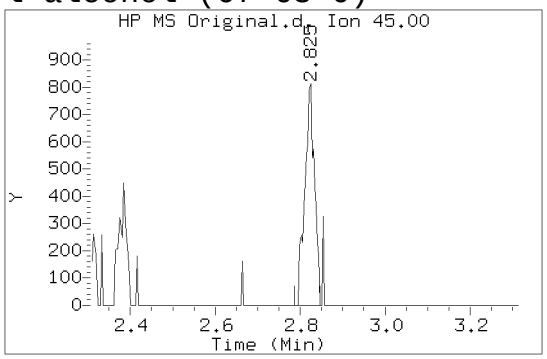


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061203.D
Inj Date : 12-JUN-2024 11:43
InstruID : voa7.i
LabSampID : VSTD00.5

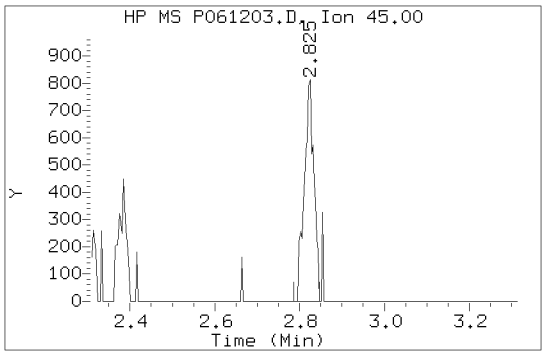
Isopropyl alcohol (67-63-0)

Reason Code:

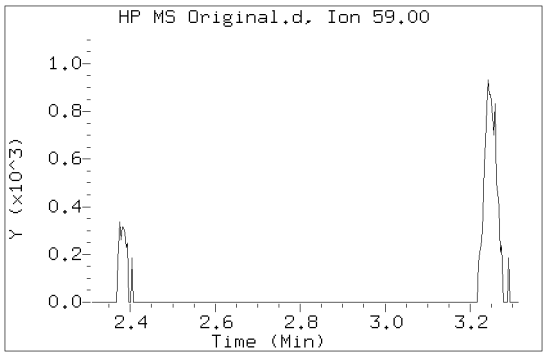
BEFORE
MASS
45
AREA
1271
HEIGHT
813
22-Jun-2024
12:20
RUCHA
PATEL



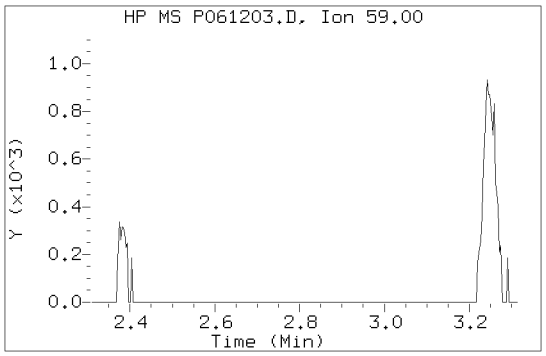
AFTER
MASS
45
AREA
1271
HEIGHT
813
22-Jun-2024
12:20
RUCHA
PATEL



BEFORE
MASS
59
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



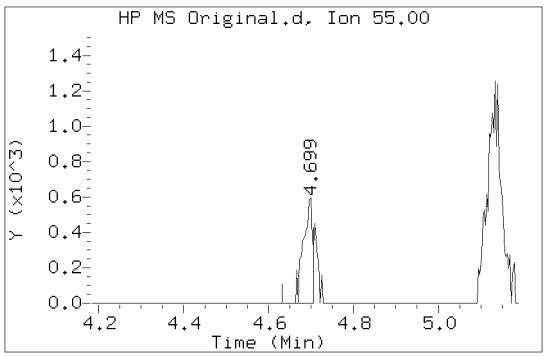
AFTER
MASS
59
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



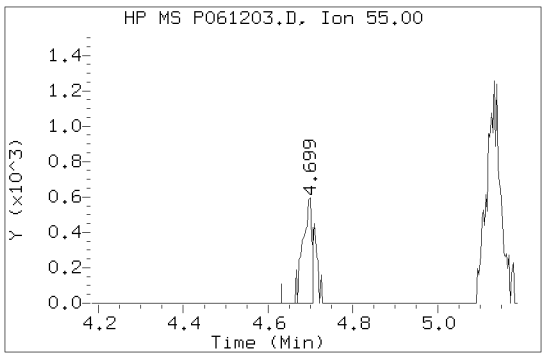
Methyl Acrylate (96-33-3)

Reason Code:

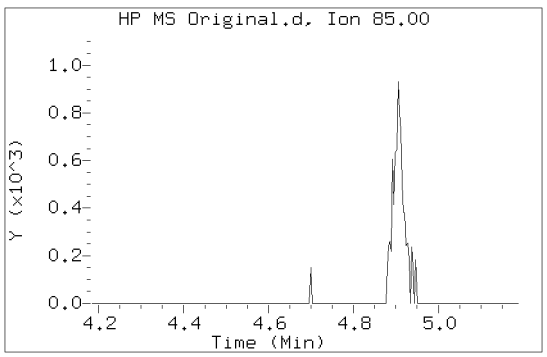
BEFORE
MASS
55
AREA
870
HEIGHT
597
22-Jun-2024
12:20
RUCHA
PATEL



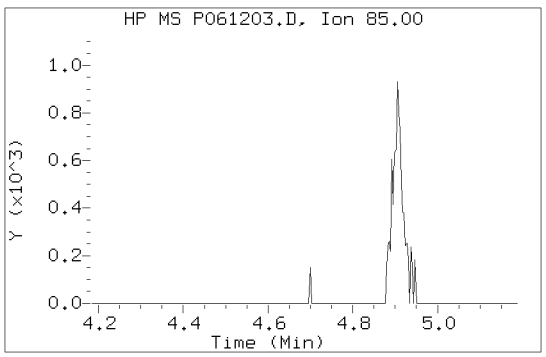
AFTER
MASS
55
AREA
870
HEIGHT
597
22-Jun-2024
12:20
RUCHA
PATEL



BEFORE
MASS
85
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER
MASS
85
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL

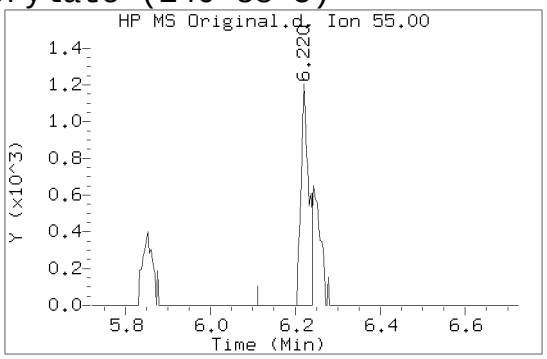


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061203.D
Inj Date : 12-JUN-2024 11:43
InstruID : voa7.i
LabSampID : VSTD00.5

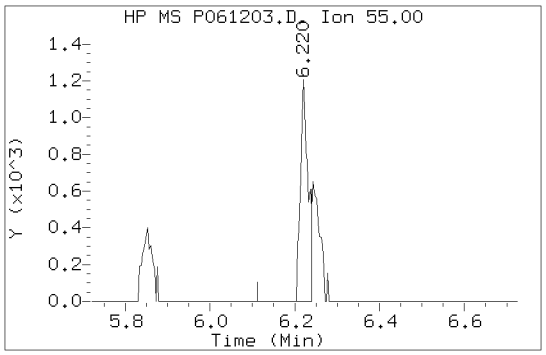
Ethyl Acrylate (140-88-5)

Reason Code:

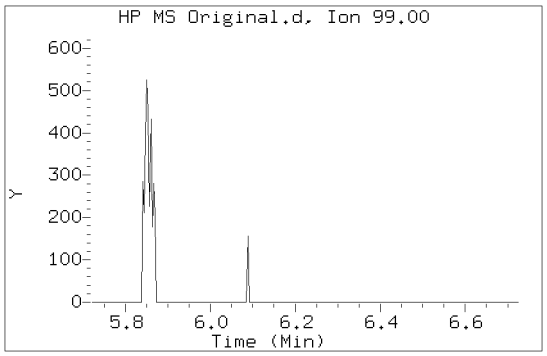
BEFORE
MASS
55
AREA
1514
HEIGHT
1206
22-Jun-2024
12:20
RUCHA
PATEL



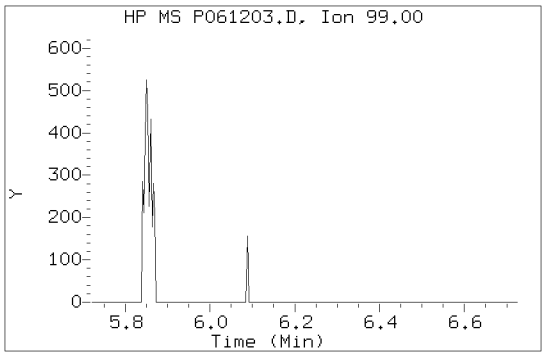
AFTER
MASS
55
AREA
1514
HEIGHT
1206
22-Jun-2024
12:20
RUCHA
PATEL



BEFORE
MASS
99
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



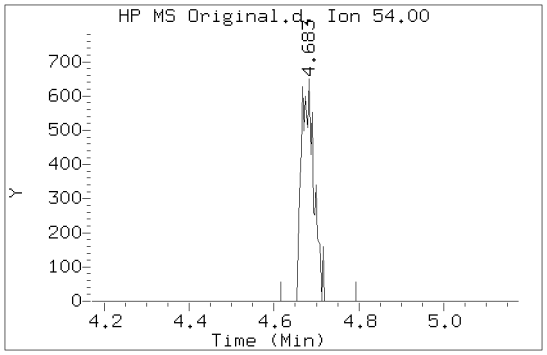
AFTER
MASS
99
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



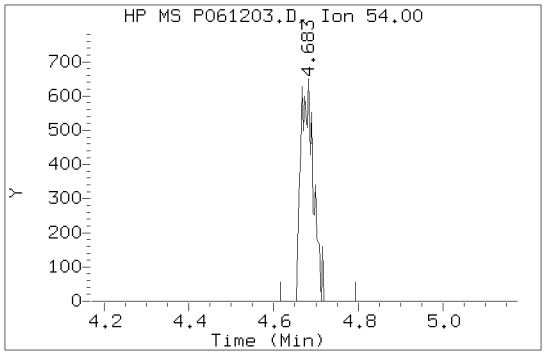
Propionitrile (107-12-0)

Reason Code:

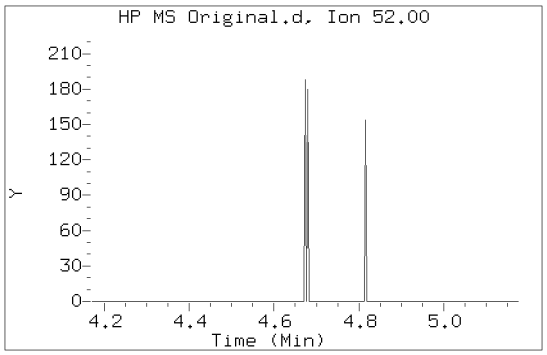
BEFORE
MASS
54
AREA
1322
HEIGHT
650
22-Jun-2024
12:20
RUCHA
PATEL



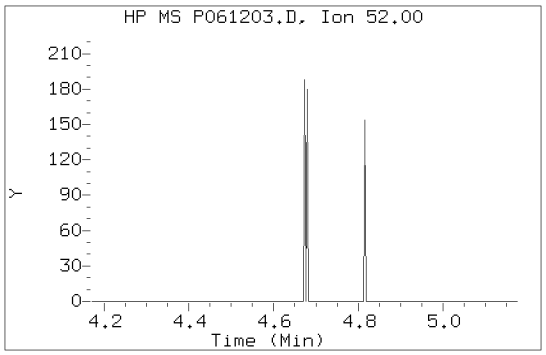
AFTER
MASS
54
AREA
1322
HEIGHT
650
22-Jun-2024
12:20
RUCHA
PATEL



BEFORE
MASS
52
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER
MASS
52
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



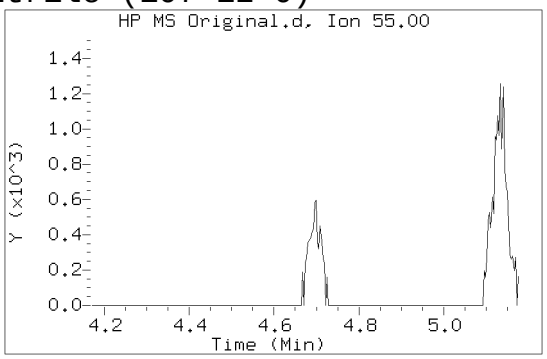
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061203.D
Inj Date : 12-JUN-2024 11:43
InstruID : voa7.i
LabSampID : VSTD00.5

Propionitrile (107-12-0)

Reason Code:

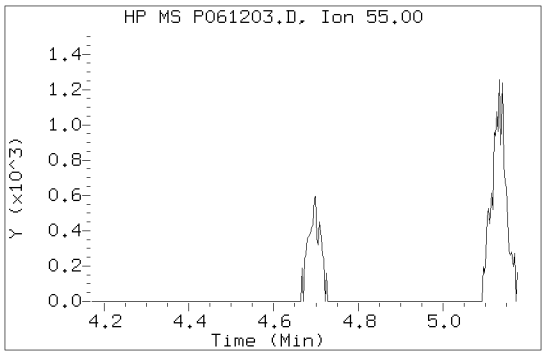
BEFORE

MASS
55
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
55
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL

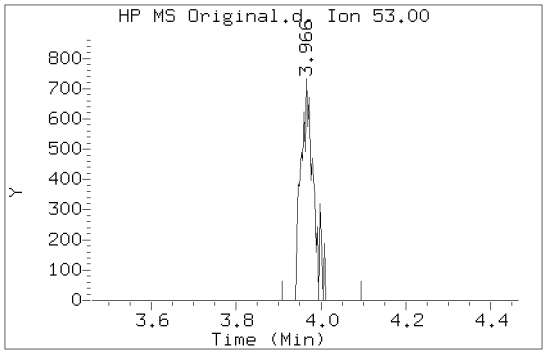


Chloroprene (126-99-8)

Reason Code:

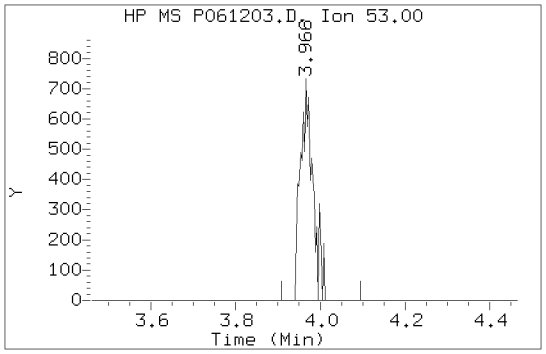
BEFORE

MASS
53
AREA
1484
HEIGHT
733
22-Jun-2024
12:20
RUCHA
PATEL



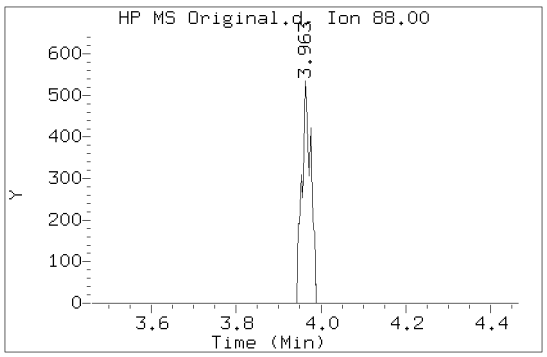
AFTER

MASS
53
AREA
1484
HEIGHT
733
22-Jun-2024
12:20
RUCHA
PATEL



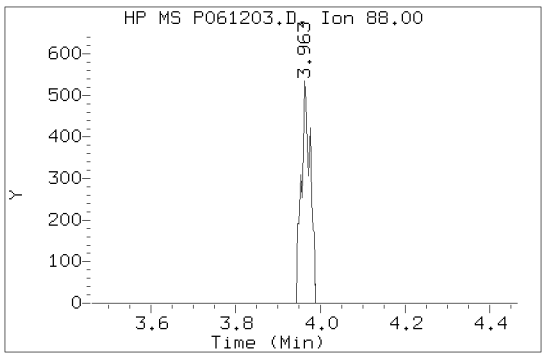
BEFORE

MASS
88
AREA
779
HEIGHT
535
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
88
AREA
779
HEIGHT
535
22-Jun-2024
12:20
RUCHA
PATEL

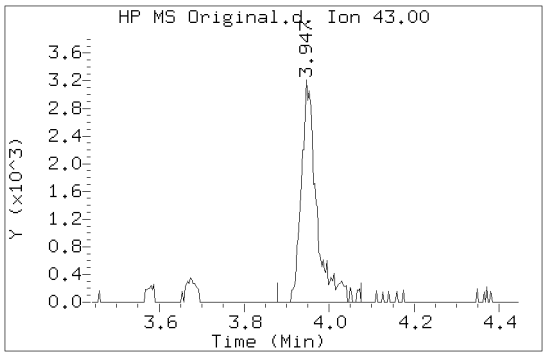


Ethyl Acetate (141-78-6)

Reason Code:

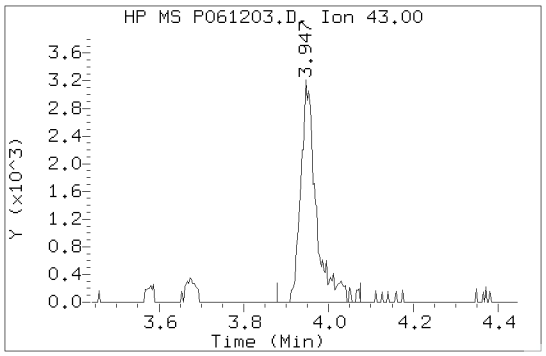
BEFORE

MASS
43
AREA
8116
HEIGHT
3212
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
43
AREA
8116
HEIGHT
3212
22-Jun-2024
12:20
RUCHA
PATEL

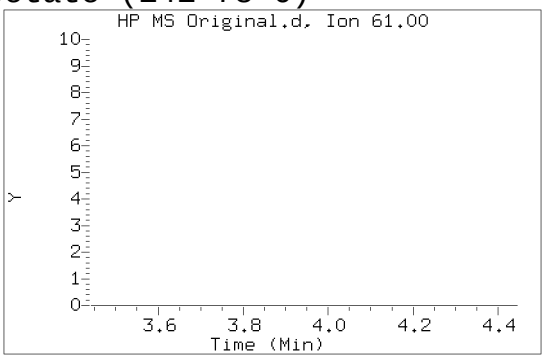


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061203.D
Inj Date : 12-JUN-2024 11:43
InstruID : voa7.i
LabSampID : VSTD00.5

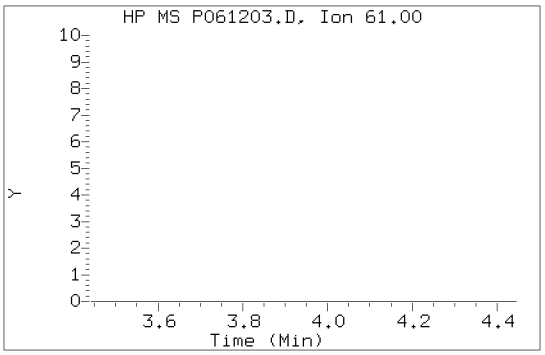
Ethyl Acetate (141-78-6)

Reason Code:

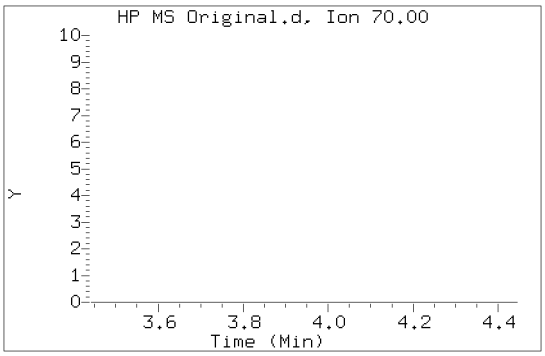
BEFORE
MASS
61
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



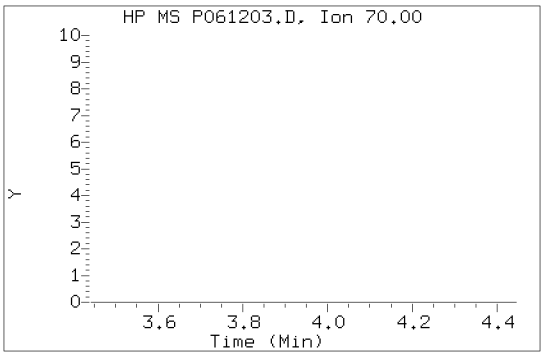
AFTER
MASS
61
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



BEFORE
MASS
70
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



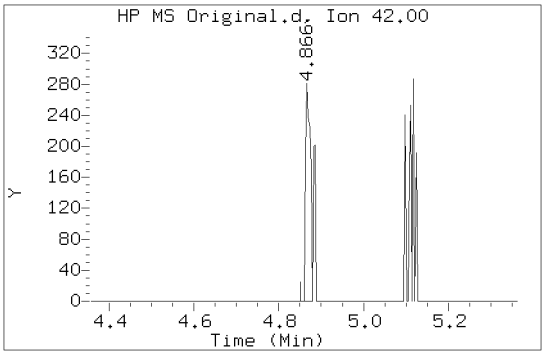
AFTER
MASS
70
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



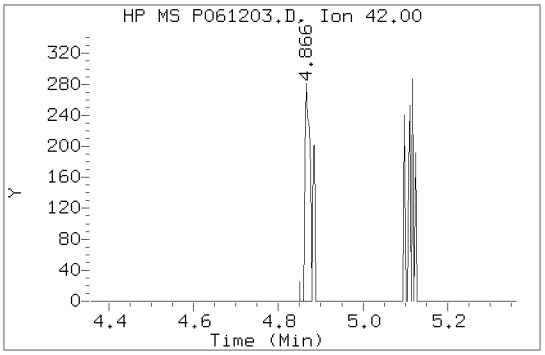
Tetrahydrofuran (109-99-9)

Reason Code:

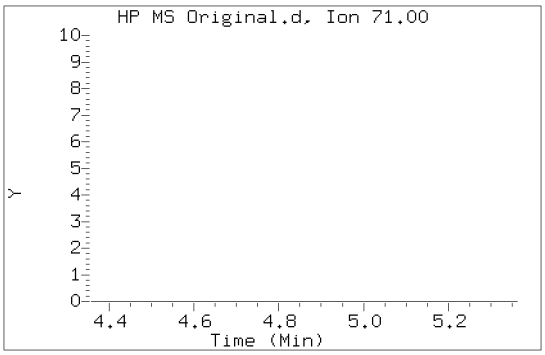
BEFORE
MASS
42
AREA
212
HEIGHT
281
22-Jun-2024
12:20
RUCHA
PATEL



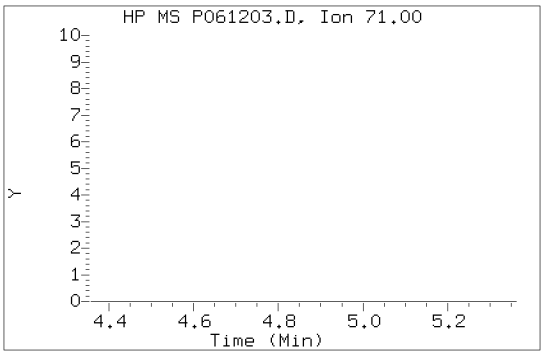
AFTER
MASS
42
AREA
212
HEIGHT
281
22-Jun-2024
12:20
RUCHA
PATEL



BEFORE
MASS
71
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER
MASS
71
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



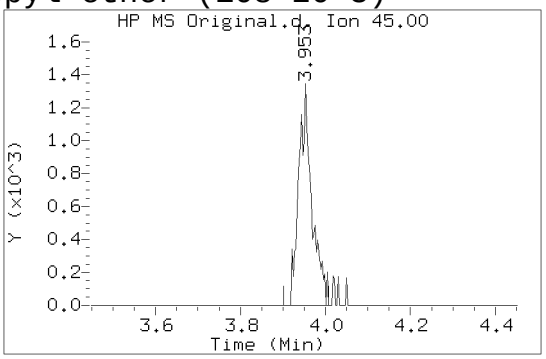
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061203.D
Inj Date : 12-JUN-2024 11:43
InstruID : voa7.i
LabSampID : VSTD00.5

Diisopropyl ether (108-20-3)

Reason Code:

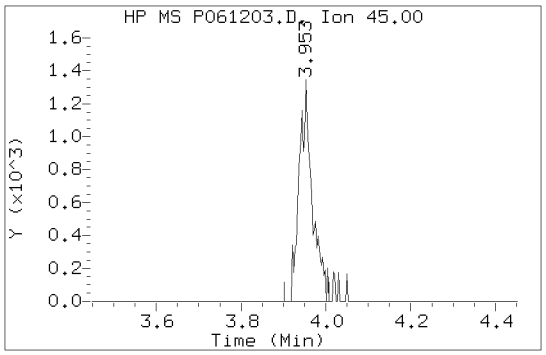
BEFORE

MASS
45
AREA
2859
HEIGHT
1346
22-Jun-2024
12:20
RUCHA
PATEL



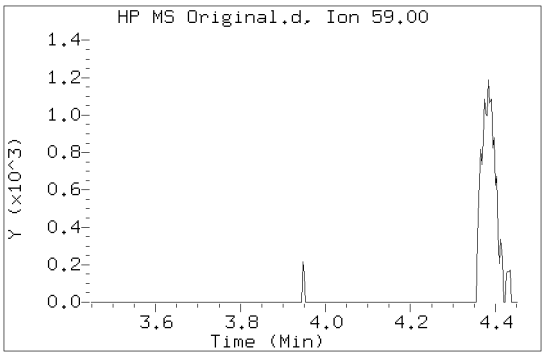
AFTER

MASS
45
AREA
2859
HEIGHT
1346
22-Jun-2024
12:20
RUCHA
PATEL



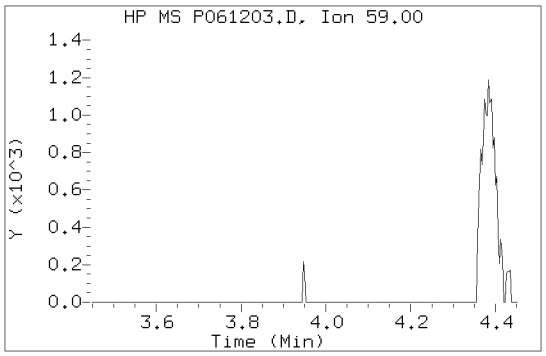
BEFORE

MASS
59
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



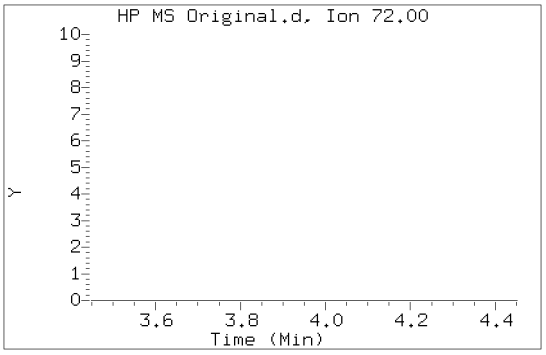
AFTER

MASS
59
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



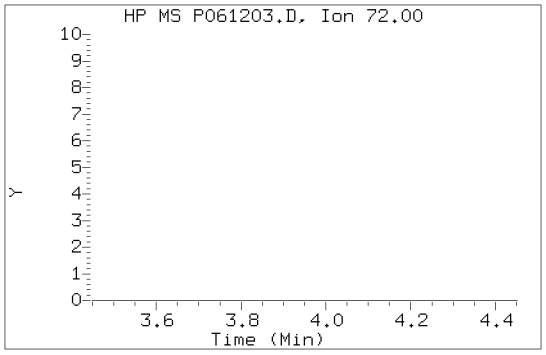
BEFORE

MASS
72
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
72
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL

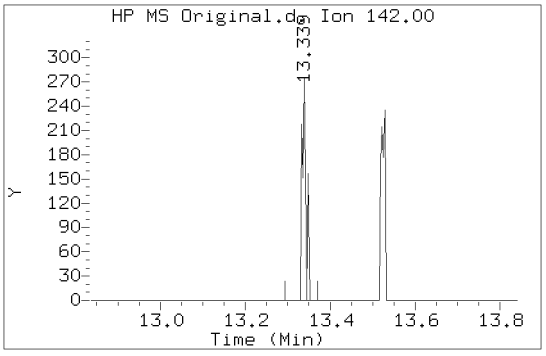


2-Methylnaphthalene (91-57-6)

Reason Code:

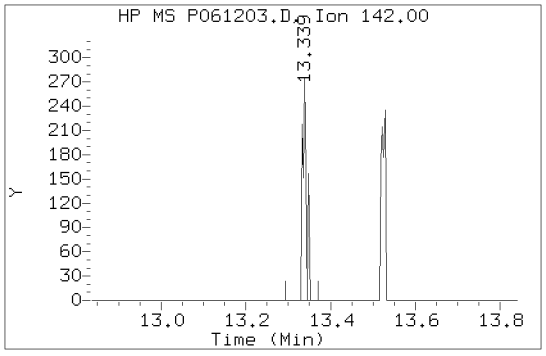
BEFORE

MASS
142
AREA
184
HEIGHT
274
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
142
AREA
184
HEIGHT
274
22-Jun-2024
12:20
RUCHA
PATEL

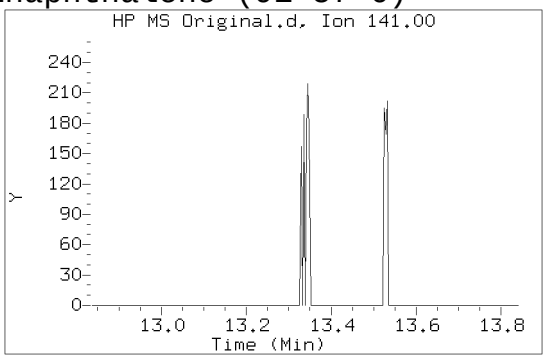


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061203.D
Inj Date : 12-JUN-2024 11:43
InstruID : voa7.i
LabSampID : VSTD00.5

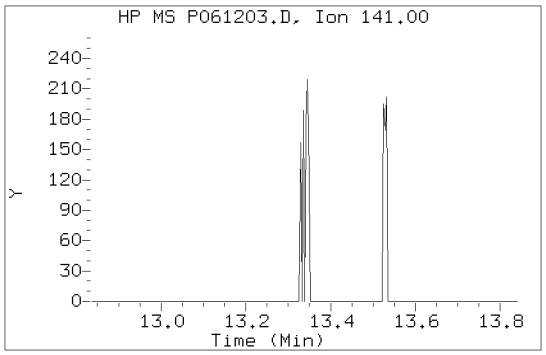
2-Methylnaphthalene (91-57-6)

Reason Code:

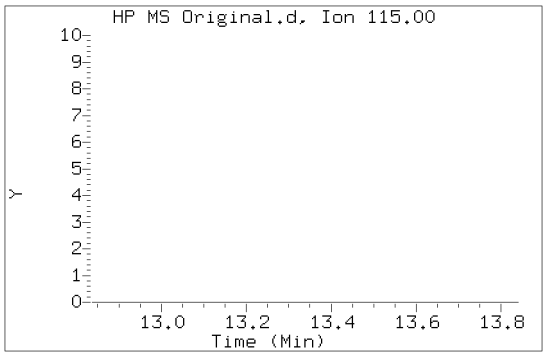
BEFORE
MASS
141
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



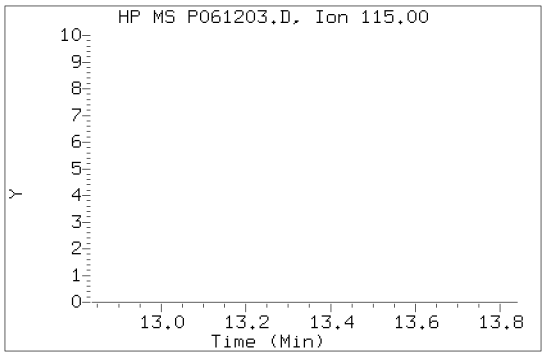
AFTER
MASS
141
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



BEFORE
MASS
115
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



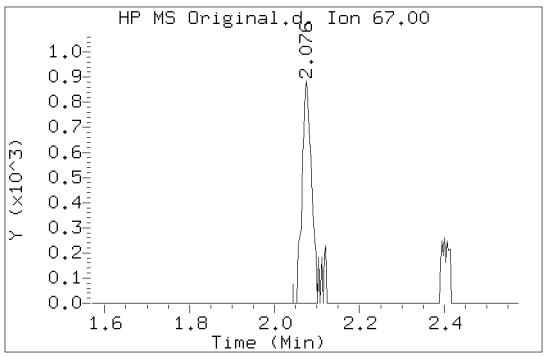
AFTER
MASS
115
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



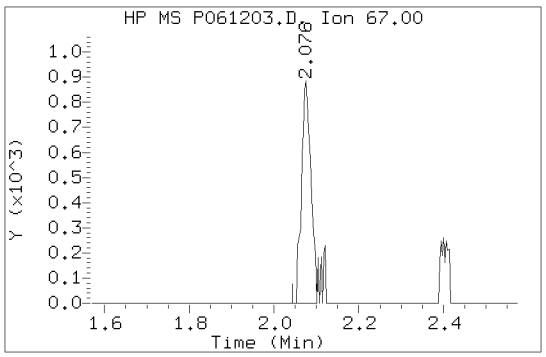
Dichlorofluoromethane (75-43-4)

Reason Code:

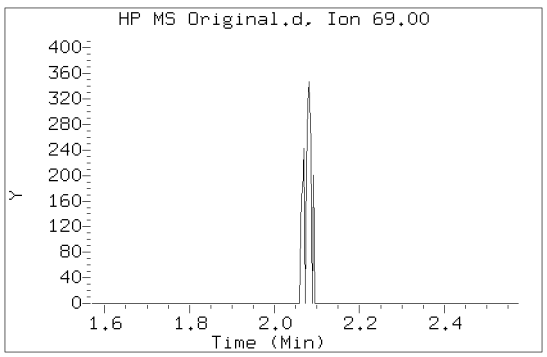
BEFORE
MASS
67
AREA
1360
HEIGHT
885
22-Jun-2024
12:20
RUCHA
PATEL



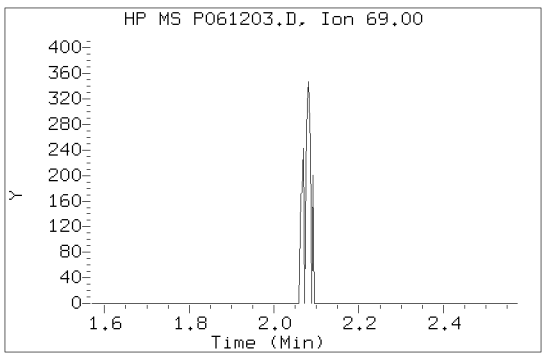
AFTER
MASS
67
AREA
1360
HEIGHT
885
22-Jun-2024
12:20
RUCHA
PATEL



BEFORE
MASS
69
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER
MASS
69
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL

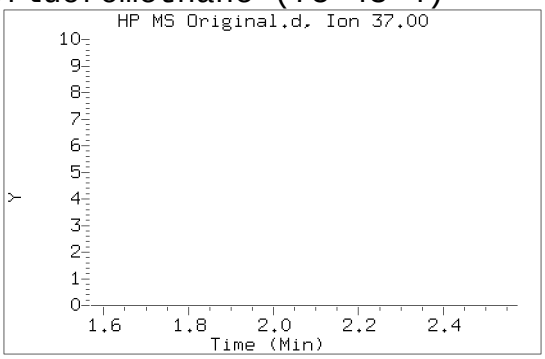


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061203.D
Inj Date : 12-JUN-2024 11:43
InstruID : voa7.i
LabSampID : VSTD00.5

Dichlorofluoromethane (75-43-4)

BEFORE

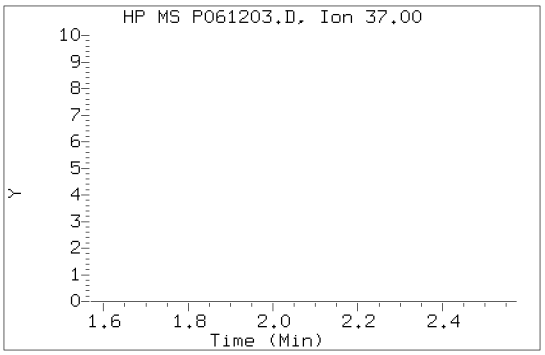
MASS
37
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



Reason Code:

AFTER

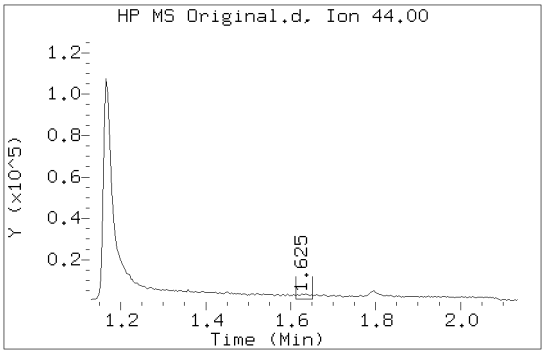
MASS
37
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



Acetaldehyde (75-07-0)

BEFORE

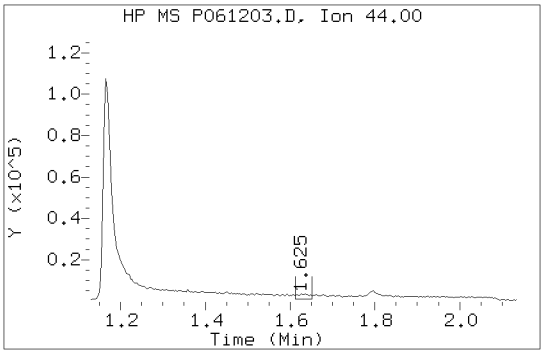
MASS
44
AREA
4899
HEIGHT
2369
22-Jun-2024
12:20
RUCHA
PATEL



Reason Code:

AFTER

MASS
44
AREA
4899
HEIGHT
2369
22-Jun-2024
12:20
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061204.D Page 1
Report Date: 22-Jun-2024 12:21

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061204.D
Lab Smp Id: VSTD001 Client Smp ID: VSTD001
Inj Date : 12-JUN-2024 12:05
Operator : AP Inst ID: voa7.i
Smp Info : VSTD001
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240612.b\8260W.m
Meth Date : 22-Jun-2024 12:21 voa7.i Quant Type: ISTD
Cal Date : 12-JUN-2024 11:43 Cal File: P061203.D
Als bottle: 7 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	5.130	5.130	(1.000)	117765	50.0000	
2	Dichlorodifluoromethane	85	1.297	1.297	(0.253)	1352	1.00000	0.91(a)
159	Dichlorofluoromethane	67	2.072	2.072	(0.404)	2757	1.00000	1.13(M)
3	Chloromethane	50	1.454	1.454	(0.284)	3170	1.00000	0.98(a)
4	Propionitrile	54	4.673	4.673	(0.911)	2802	10.0000	12.88
5	Vinyl Chloride	62	1.535	1.535	(0.299)	2099	1.00000	1.15
6	Bromomethane	94	1.802	1.802	(0.351)	1923	1.00000	1.04
7	Chloroethane	64	1.898	1.898	(0.370)	1585	1.00000	1.21
8	Trichlorofluoromethane	101	2.114	2.114	(0.412)	1839	1.00000	1.10
9	Acrolein	56	2.512	2.512	(0.490)	61	2.00000	5.63(M)
11	1,1-Dichloroethene	96	2.596	2.596	(0.506)	1148	1.00000	1.01
12	Isobutyl Alcohol	43	5.576	5.576	(1.087)	7035	20.0000	22.46
13	Acetonitrile	39	2.962	2.962	(0.578)	2062	10.0000	10.05
14	Allyl Chloride	41	2.966	2.966	(0.578)	5788	1.00000	1.25
15	Iodomethane	142	2.744	2.744	(0.535)	487	2.00000	5.64(M)
16	Acrylonitrile	53	3.384	3.384	(0.660)	1134	2.00000	2.43
17	Methylene Chloride	84	3.101	3.101	(0.605)	3129	1.00000	1.08(a)
18	Methyl tert-butyl ether	73	3.384	3.384	(0.660)	4268	1.00000	2.27
19	Carbon Disulfide	76	2.798	2.798	(0.546)	9785	2.00000	3.01
20	trans-1,2-Dichloroethene	96	3.374	3.374	(0.658)	1392	1.00000	1.10

21 Vinyl Acetate	43	4.660	4.660 (0.908)	2723	2.00000	2.33
22 1,1-Dichloroethane	63	3.863	3.863 (0.753)	3410	1.00000	1.23

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061204.D Page 2
Report Date: 22-Jun-2024 12:21

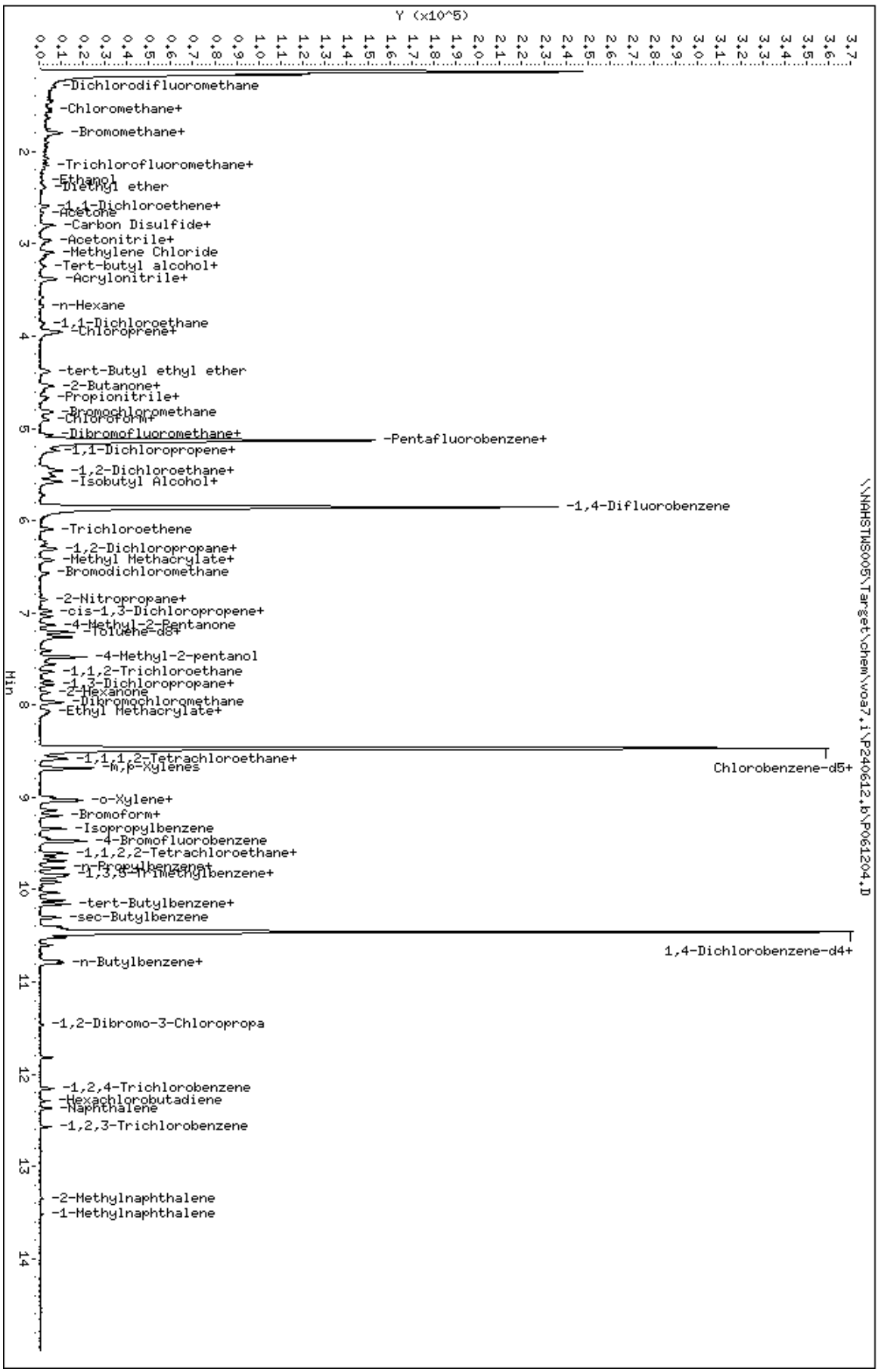
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.966	3.966	(0.773)	2428	1.00000	1.09(a)
	24 2-Butanone	43	4.593	4.593	(0.895)	2837	2.00000	2.66
	25 Methacrylonitrile	41	2.146	2.146	(0.418)	1820	1.00000	2.05(M)
	26 2,2-Dichloropropane	77	4.535	4.535	(0.884)	2328	1.00000	1.54
	27 cis-1,2-Dichloroethene	96	4.551	4.551	(0.887)	1923	1.00000	1.39
	28 Chloroform	83	4.904	4.904	(0.956)	3649	1.00000	1.18
	29 Bromochloromethane	128	4.805	4.805	(0.937)	1013	1.00000	0.93(a)
$	30 Dibromofluoromethane	113	5.072	5.072	(0.989)	2282	1.00000	1.38
	31 1,1,1-Trichloroethane	97	5.078	5.078	(0.990)	2209	1.00000	1.47
	32 1,1-Dichloropropene	75	5.242	5.242	(0.896)	2608	1.00000	1.57
	33 1,2-Dichloroethane	62	5.493	5.493	(0.938)	3321	1.00000	1.12
	34 Carbon Tetrachloride	117	5.236	5.236	(0.895)	2397	1.00000	1.81
$	35 1,2-Dichloroethane-d4	65	5.419	5.419	(1.056)	3202	1.00000	1.17
*	36 1,4-Difluorobenzene	114	5.853	5.853	(1.000)	201241	50.0000	
	37 Benzene	78	5.454	5.454	(0.932)	7825	1.00000	1.15
	38 Trichloroethene	130	6.094	6.094	(1.041)	1844	1.00000	1.31
	39 Bromodichloromethane	83	6.570	6.570	(1.122)	2792	1.00000	1.42(M)
	40 Methyl Methacrylate	41	6.435	6.435	(1.254)	2255	1.00000	0.59(a)
	41 2-Chloroethylvinyl ether	63	6.859	6.859	(1.172)	1601	2.00000	2.37(aM)
	42 1,2-Dichloropropane	63	6.310	6.310	(1.078)	2320	1.00000	1.35
	43 2-Nitropropane	43	6.801	6.801	(1.326)	803	1.00000	2.51(a)
	44 Dibromomethane	93	6.422	6.422	(1.097)	1232	1.00000	1.25
	45 4-Methyl-2-Pentanone	43	7.123	7.123	(0.841)	5173	2.00000	1.48(a)
	46 cis-1,3-Dichloropropene	75	6.982	6.982	(1.193)	2939	1.00000	2.04
*	47 Chlorobenzene-d5	117	8.467	8.467	(1.000)	188087	50.0000	
$	48 Toluene-d8	98	7.207	7.207	(0.851)	9737	1.00000	0.82(a)
	49 Ethyl Methacrylate	69	8.062	8.062	(1.377)	2106	1.00000	1.89
	50 Toluene	91	7.264	7.264	(0.858)	7764	1.00000	0.58(a)
	51 trans-1,3-Dichloropropene	75	6.982	6.982	(1.193)	2939	1.00000	2.04
	52 2-Hexanone	43	7.859	7.859	(0.928)	3164	2.00000	1.34(a)
	53 1,1,2-Trichloroethane	83	7.641	7.641	(0.902)	1788	1.00000	0.53(a)
	54 1,3-Dichloropropane	76	7.779	7.779	(0.919)	3554	1.00000	0.56(a)
	55 Dibromochloromethane	129	7.978	7.978	(0.942)	2100	1.00000	1.21
	56 Tetrachloroethene	164	7.740	7.740	(0.914)	1137	1.00000	0.67(a)
	57 1,2-Dibromoethane	107	8.075	8.075	(0.954)	1851	1.00000	0.83(a)
	58 1-Chlorohexane	55	8.470	8.470	(1.447)	3327	1.00000	0.72(a)
	59 Chlorobenzene	112	8.493	8.493	(1.003)	5255	1.00000	0.70(a)
	60 1,1,1,2-Tetrachloroethane	131	8.563	8.563	(1.011)	2007	1.00000	1.46
	61 Ethylbenzene	106	8.583	8.583	(1.014)	2344	1.00000	0.80(a)
	62 m,p-Xylenes	106	8.682	8.682	(1.025)	6254	2.00000	1.57(a)
	63 o-Xylene	106	9.026	9.026	(1.066)	3077	1.00000	0.71(a)
	64 Styrene	104	9.039	9.039	(1.068)	5325	1.00000	1.07
	66 Bromoform	173	9.203	9.203	(1.087)	1111	1.00000	1.34(T)
	67 Isopropylbenzene	105	9.338	9.338	(1.103)	6936	1.00000	0.72(a)
$	69 4-Bromofluorobenzene	95	9.473	9.473	(1.119)	6716	1.00000	1.68
*	70 1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	85805	50.0000	
	72 trans-1,4-Dichloro-2-butene	53	9.657	9.657	(1.140)	604	1.00000	1.69(M)
	73 n-Propylbenzene	91	9.689	9.689	(0.927)	8454	1.00000	0.32(a)
	74 Bromobenzene	156	9.602	9.602	(0.918)	2312	1.00000	0.28(a)
	75 1,3,5-Trimethylbenzene	105	9.837	9.837	(0.941)	6275	1.00000	0.70(a)
	79 1,2,4-Trimethylbenzene	105	10.158	10.158	(0.971)	6769	1.00000	0.52(a)
	82 p-Isopropyltoluene	119	10.425	10.425	(0.997)	5790	1.00000	1.18

83 1,3-Dichlorobenzene	146	10.399	10.399 (0.994)	3904	1.00000	0.60(a)
84 1,4-Dichlorobenzene	146	10.477	10.477 (1.002)	4079	1.00000	0.52(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
87	n-Butylbenzene	91	10.772	10.772	(1.030)	5237	1.00000	1.18
88	1,2-Dichlorobenzene	146	10.801	10.801	(1.033)	3749	1.00000	0.55(a)
89	1,2-Dibromo-3-Chloropropane	75	11.464	11.464	(1.096)	297	1.00000	1.16
90	1,2,4-Trichlorobenzene	180	12.155	12.155	(1.162)	1918	1.00000	1.36
92	Naphthalene	128	12.374	12.374	(1.183)	4251	1.00000	1.24
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	1472	1.00000	1.51(M)
146	Methyl acetate	43	2.988	2.988	(0.583)	1741	1.00000	1.09(a)
138	Freon TF	101	2.599	2.599	(0.507)	631	1.00000	1.12
139	Diethyl ether	59	2.380	2.380	(0.464)	997	1.00000	1.60
140	1,3-Butadiene	54	1.564	1.564	(0.305)	599	1.00000	1.63(a)
141	Cyclohexane	56	5.130	5.130	(1.000)	3616	1.00000	1.57(a)
147	Methylcyclohexane	83	6.252	6.252	(1.068)	1103	1.00000	1.55
131	Methyl Acrylate	55	4.689	4.689	(0.914)	2257	1.00000	1.05(aM)
133	Ethyl Acrylate	55	6.226	6.226	(1.214)	3710	1.00000	1.11(M)
136	n-Hexane	57	3.686	3.686	(0.719)	889	1.00000	1.70
142	Tetrahydrofuran	42	4.879	4.879	(0.951)	750	2.00000	4.24(M)
149	Isopropyl alcohol	45	2.824	2.824	(0.551)	2719	20.0000	34.31(M)
151	4-Methyl-2-pentanol	45	7.477	7.477	(0.883)	14520	20.0000	41.66
173	3,3-Dimethyl-1-butanol	57	8.052	8.052	(0.951)	3401	20.0000	29.99(M)
175	tert-Butyl ethyl ether	59	4.387	4.387	(0.855)	5191	1.00000	1.01
157	2-Methylnaphthalene	142	13.345	13.345	(1.276)	563	1.00000	3.44
156	Diisopropyl ether	45	3.956	3.956	(0.771)	5587	1.00000	1.50(T)
171	1-Methylnaphthalene	142	13.518	13.518	(1.293)	569	1.00000	3.16
130	Ethyl Acetate	43	3.946	3.946	(0.769)	12937	1.00000	2.11(aM)
160	Epichlorohydrin	57	6.911	6.911	(1.181)	383	4.00000	4.48
161	Butyl acrylate	55	9.001	9.001	(1.063)	4551	1.00000	1.81(a)
183	Isopropyl Acetate	43	5.576	5.576	(0.953)	7035	1.00000	0.86(aA)
184	n-Amyl acetate	43	9.197	9.197	(1.086)	4598	1.00000	2.46(aA)
185	Acetaldehyde	44	1.631	1.631	(0.318)	8787	4.00000	(aM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061204.D
Date : 12-JUN-2024 12:05
Client ID: VSTD001
Sample Info: VSTD001
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7.i
Operator: AP
Column diameter: 0.18

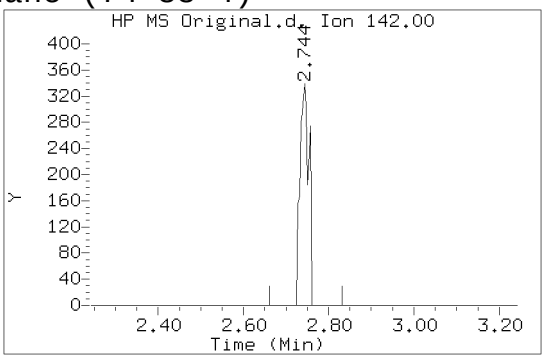
\\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061204.D

Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061204.D
Inj Date : 12-JUN-2024 12:05
InstruID : voa7.i
LabSampID : VSTD001

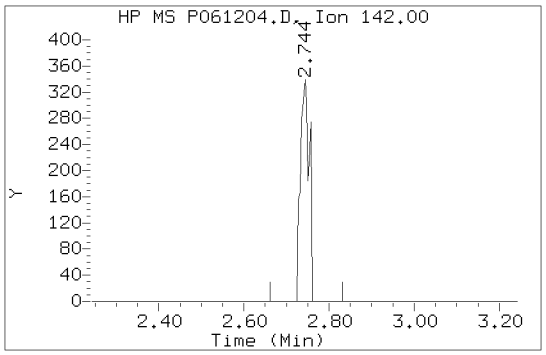
Iodomethane (74-88-4)

Reason Code:

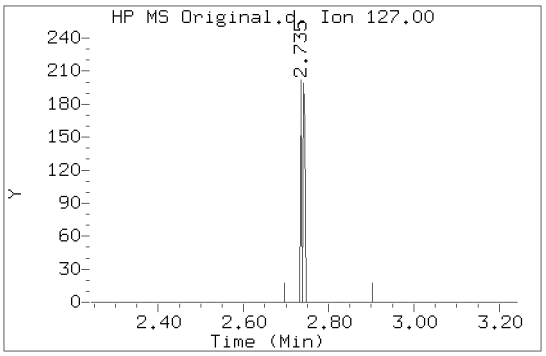
BEFORE
MASS
142
AREA
487
HEIGHT
339
22-Jun-2024
12:20
RUCHA
PATEL



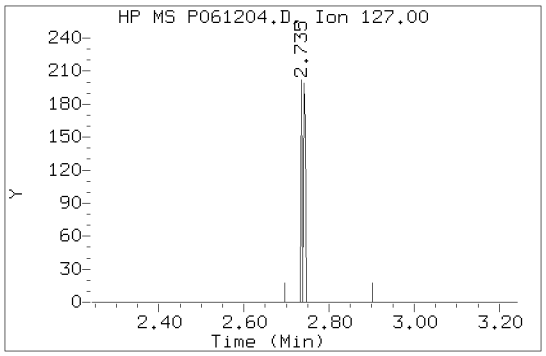
AFTER
MASS
142
AREA
487
HEIGHT
339
22-Jun-2024
12:20
RUCHA
PATEL



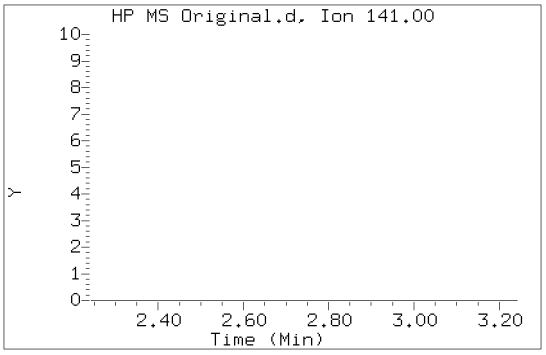
BEFORE
MASS
127
AREA
108
HEIGHT
202
22-Jun-2024
12:20
RUCHA
PATEL



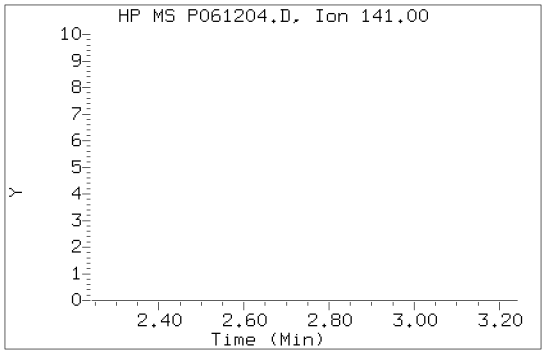
AFTER
MASS
127
AREA
108
HEIGHT
202
22-Jun-2024
12:20
RUCHA
PATEL



BEFORE
MASS
141
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



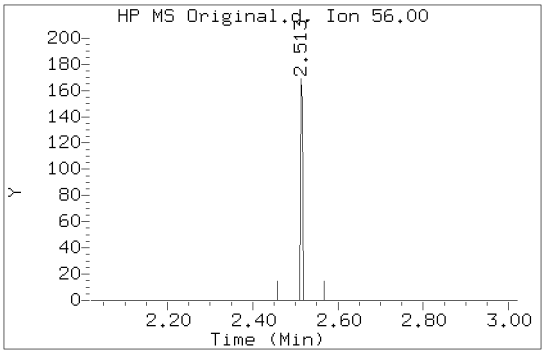
AFTER
MASS
141
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



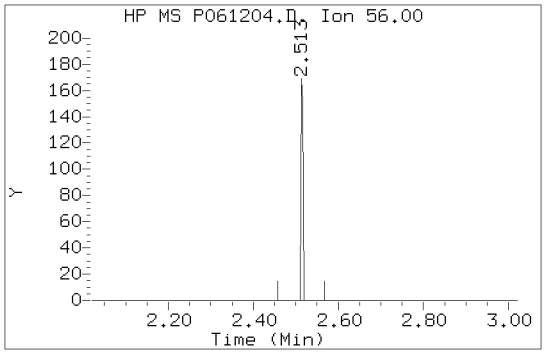
Acrolein (107-02-8)

Reason Code:

BEFORE
MASS
56
AREA
61
HEIGHT
169
22-Jun-2024
12:20
RUCHA
PATEL



AFTER
MASS
56
AREA
61
HEIGHT
169
22-Jun-2024
12:20
RUCHA
PATEL



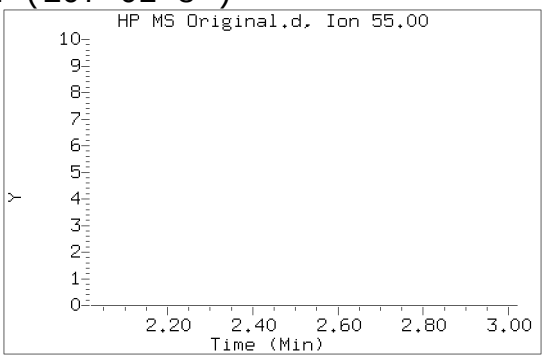
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061204.D
Inj Date : 12-JUN-2024 12:05
InstruID : voa7.i
LabSampID : VSTD001

Acrolein (107-02-8)

Reason Code:

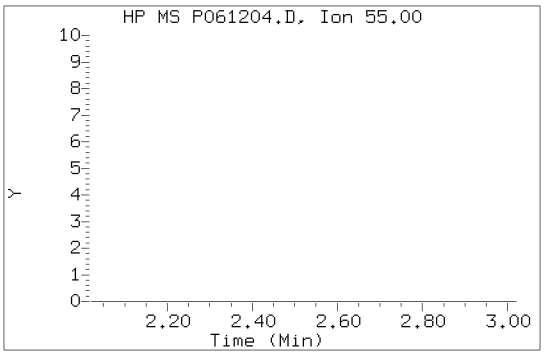
BEFORE

MASS
55
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
55
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL

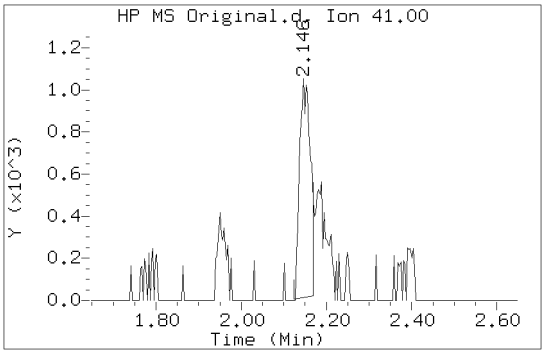


Methacrylonitrile (126-98-7)

Reason Code:

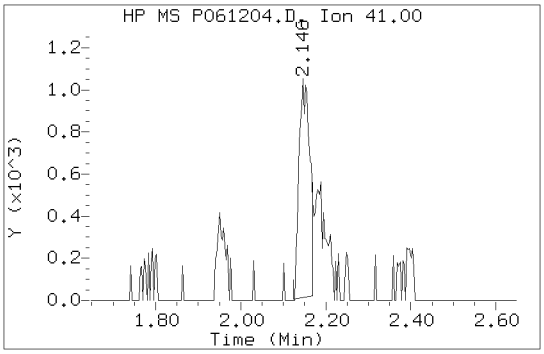
BEFORE

MASS
41
AREA
1820
HEIGHT
1040
22-Jun-2024
12:20
RUCHA
PATEL



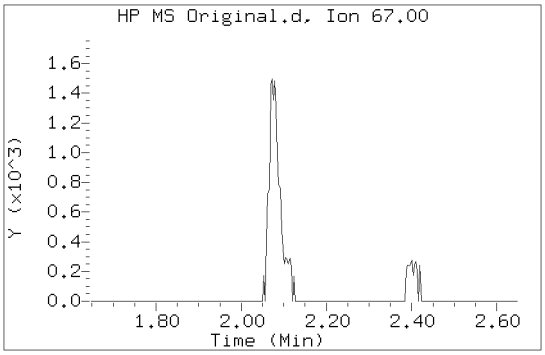
AFTER

MASS
41
AREA
1820
HEIGHT
1040
22-Jun-2024
12:20
RUCHA
PATEL



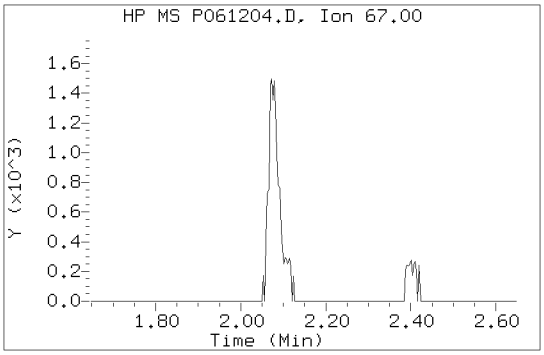
BEFORE

MASS
67
AREA
766
HEIGHT
525
22-Jun-2024
12:20
RUCHA
PATEL



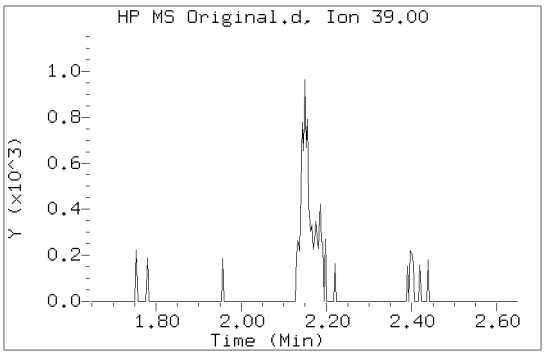
AFTER

MASS
67
AREA
766
HEIGHT
525
22-Jun-2024
12:20
RUCHA
PATEL



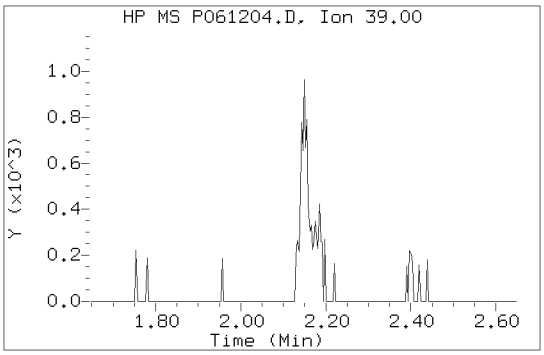
BEFORE

MASS
39
AREA
138
HEIGHT
200
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
39
AREA
138
HEIGHT
200
22-Jun-2024
12:20
RUCHA
PATEL

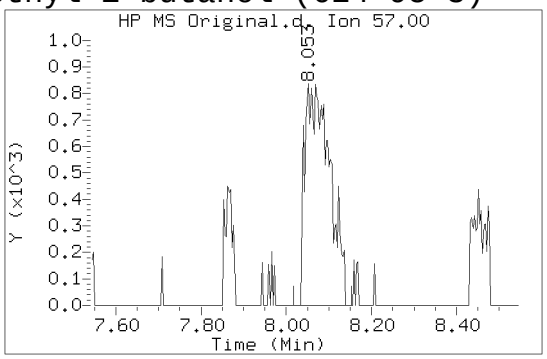


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061204.D
Inj Date : 12-JUN-2024 12:05
InstruID : voa7.i
LabSampID : VSTD001

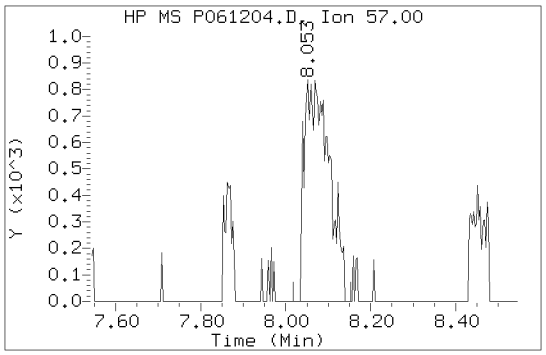
3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

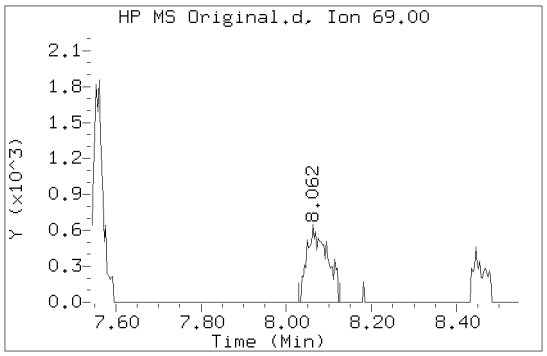
BEFORE
MASS
57
AREA
3401
HEIGHT
837
22-Jun-2024
12:20
RUCHA
PATEL



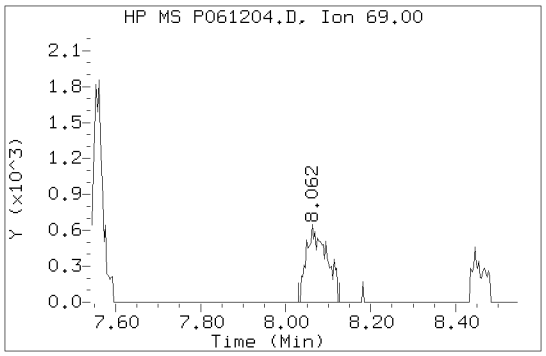
AFTER
MASS
57
AREA
3401
HEIGHT
837
22-Jun-2024
12:20
RUCHA
PATEL



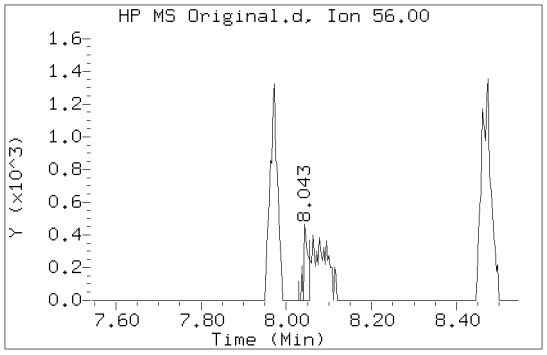
BEFORE
MASS
69
AREA
2106
HEIGHT
651
22-Jun-2024
12:20
RUCHA
PATEL



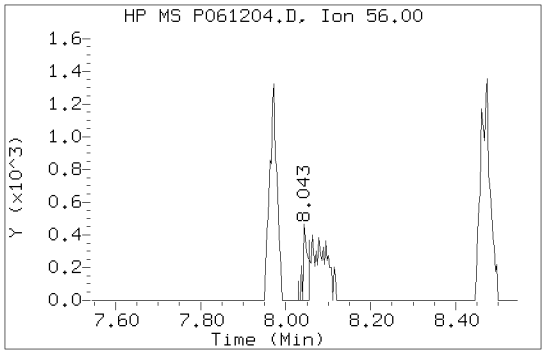
AFTER
MASS
69
AREA
2106
HEIGHT
651
22-Jun-2024
12:20
RUCHA
PATEL



BEFORE
MASS
56
AREA
360
HEIGHT
467
22-Jun-2024
12:20
RUCHA
PATEL



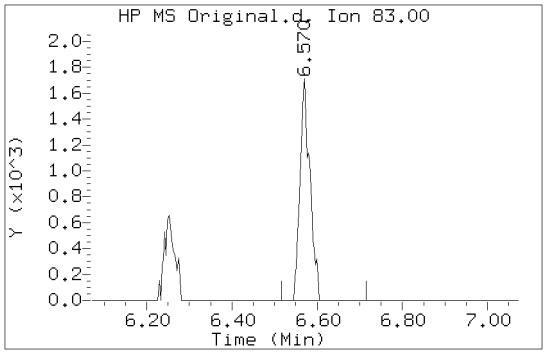
AFTER
MASS
56
AREA
360
HEIGHT
467
22-Jun-2024
12:20
RUCHA
PATEL



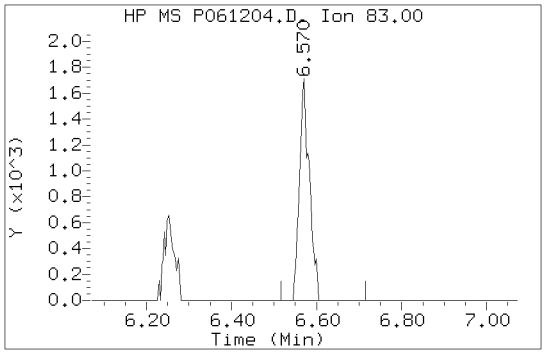
Bromodichloromethane (75-27-4)

Reason Code:

BEFORE
MASS
83
AREA
2792
HEIGHT
1712
22-Jun-2024
12:20
RUCHA
PATEL



AFTER
MASS
83
AREA
2792
HEIGHT
1712
22-Jun-2024
12:20
RUCHA
PATEL

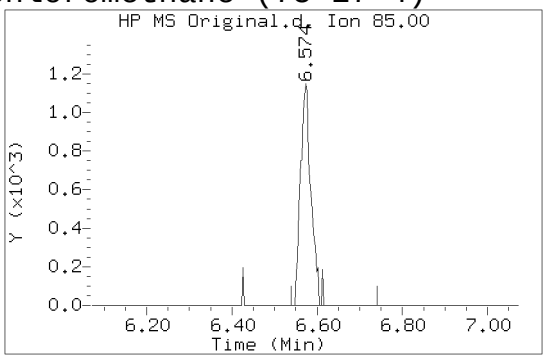


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061204.D
Inj Date : 12-JUN-2024 12:05
InstruID : voa7.i
LabSampID : VSTD001

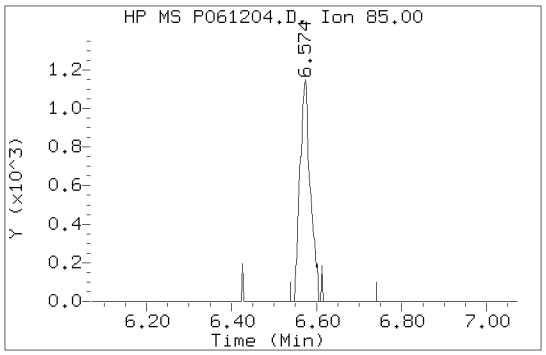
Bromodichloromethane (75-27-4)

Reason Code:

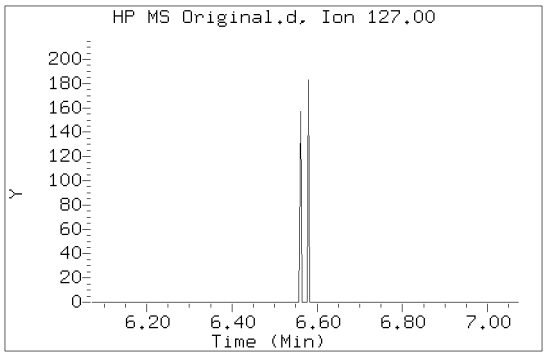
BEFORE
MASS
85
AREA
1994
HEIGHT
1149
22-Jun-2024
12:20
RUCHA
PATEL



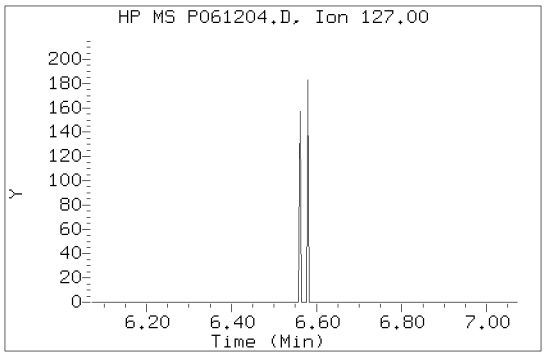
AFTER
MASS
85
AREA
1994
HEIGHT
1149
22-Jun-2024
12:20
RUCHA
PATEL



BEFORE
MASS
127
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



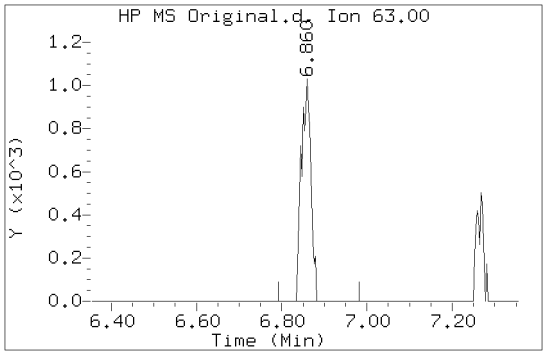
AFTER
MASS
127
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



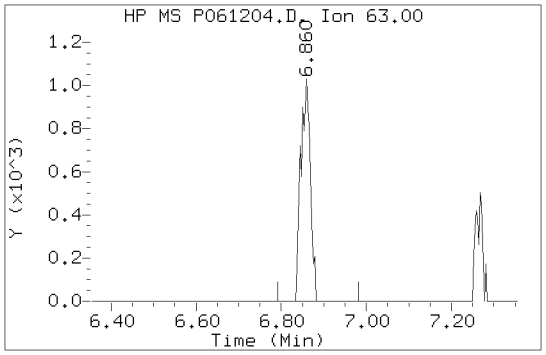
2-Chloroethylvinyl ether (110-75-8)

Reason Code:

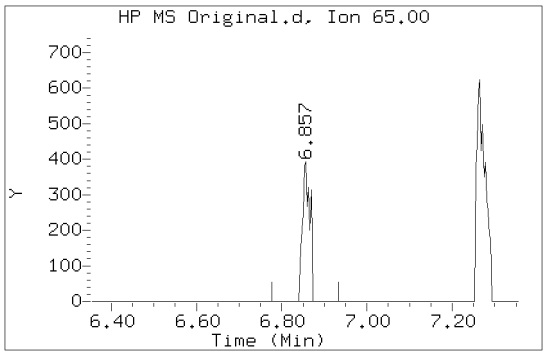
BEFORE
MASS
63
AREA
1601
HEIGHT
1030
22-Jun-2024
12:20
RUCHA
PATEL



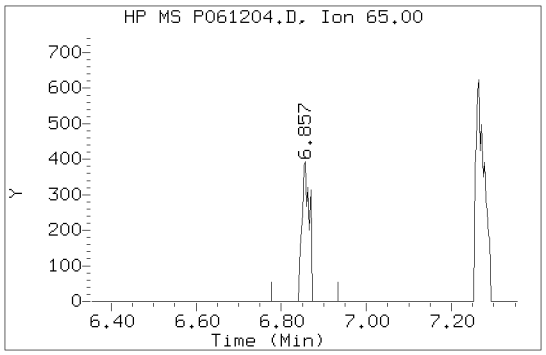
AFTER
MASS
63
AREA
1601
HEIGHT
1030
22-Jun-2024
12:20
RUCHA
PATEL



BEFORE
MASS
65
AREA
477
HEIGHT
393
22-Jun-2024
12:20
RUCHA
PATEL



AFTER
MASS
65
AREA
477
HEIGHT
393
22-Jun-2024
12:20
RUCHA
PATEL



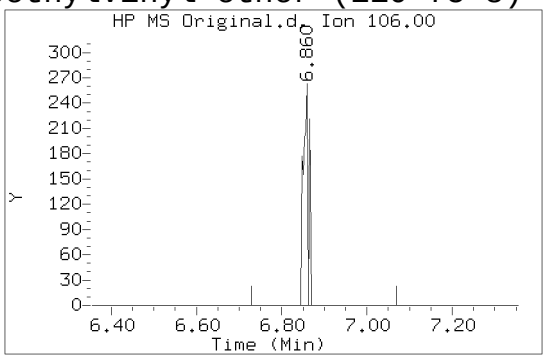
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061204.D
Inj Date : 12-JUN-2024 12:05
InstruID : voa7.i
LabSampID : VSTD001

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

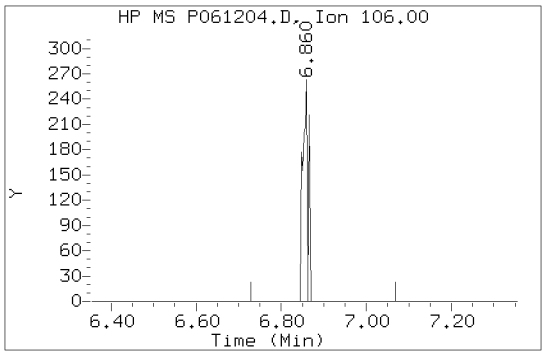
BEFORE

MASS
106
AREA
235
HEIGHT
263
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
106
AREA
235
HEIGHT
263
22-Jun-2024
12:20
RUCHA
PATEL

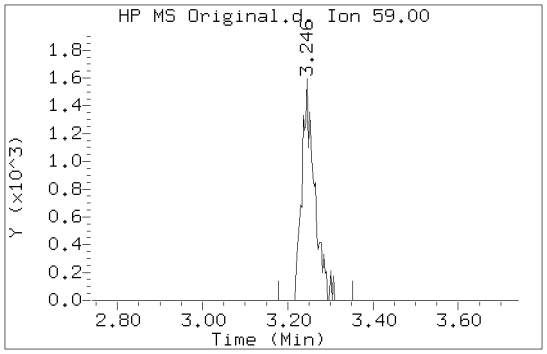


tert-Butyl formate (762-75-4)

Reason Code:

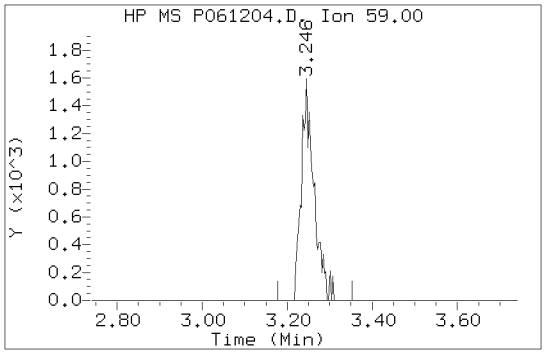
BEFORE

MASS
59
AREA
3268
HEIGHT
1595
22-Jun-2024
12:20
RUCHA
PATEL



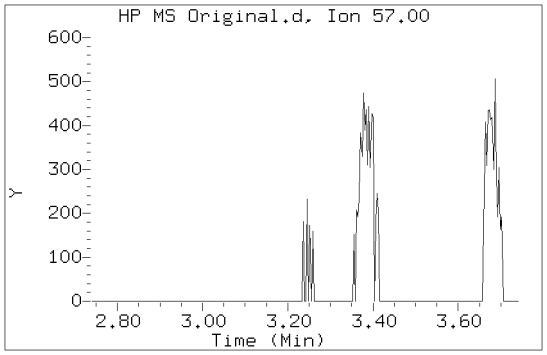
AFTER

MASS
59
AREA
3268
HEIGHT
1595
22-Jun-2024
12:20
RUCHA
PATEL



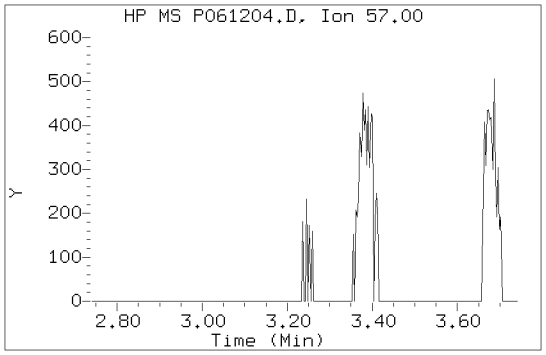
BEFORE

MASS
57
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



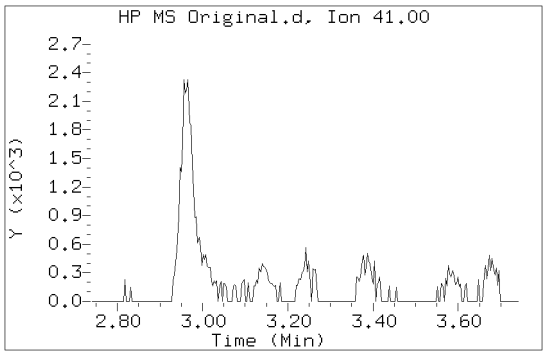
AFTER

MASS
57
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



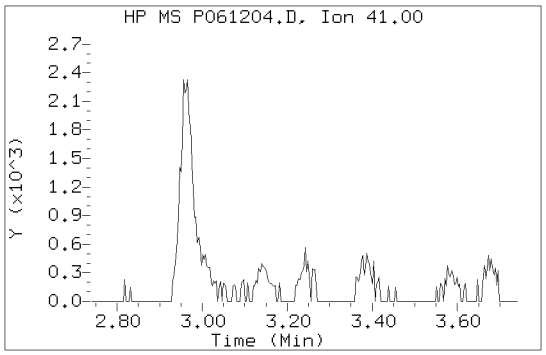
BEFORE

MASS
41
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
41
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL

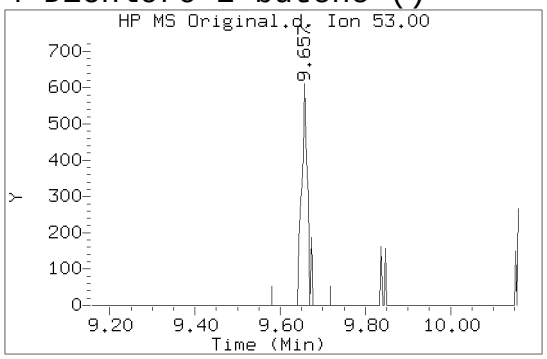


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061204.D
Inj Date : 12-JUN-2024 12:05
InstruID : voa7.i
LabSampID : VSTD001

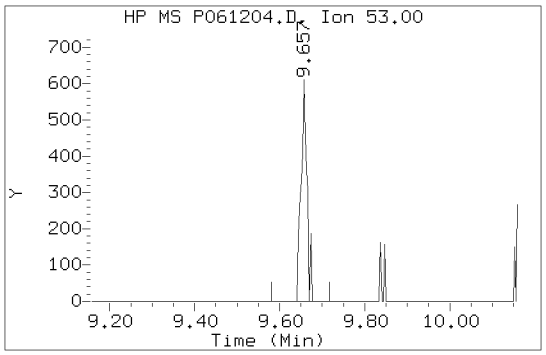
trans-1,4-Dichloro-2-butene ()

Reason Code:

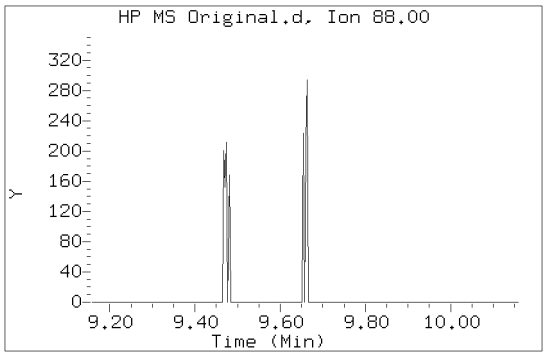
BEFORE
MASS
53
AREA
604
HEIGHT
611
22-Jun-2024
12:20
RUCHA
PATEL



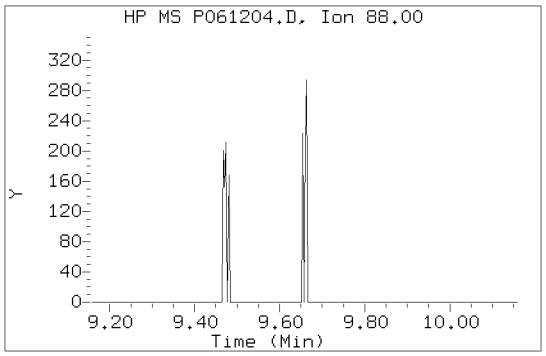
AFTER
MASS
53
AREA
604
HEIGHT
611
22-Jun-2024
12:20
RUCHA
PATEL



BEFORE
MASS
88
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



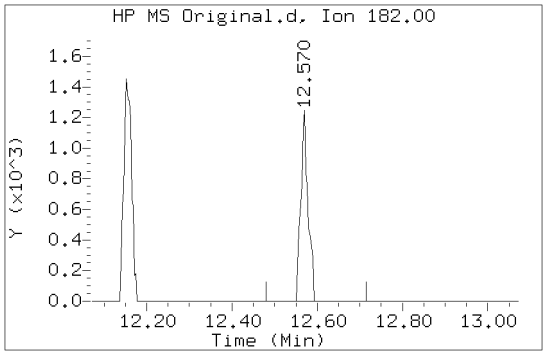
AFTER
MASS
88
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



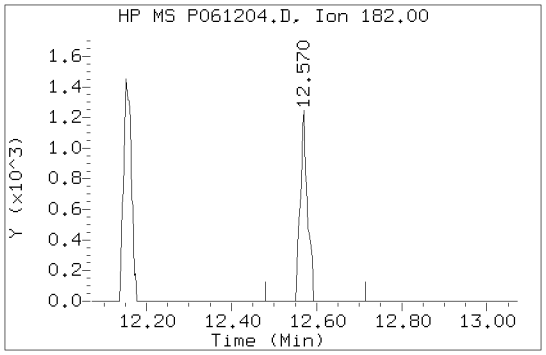
1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

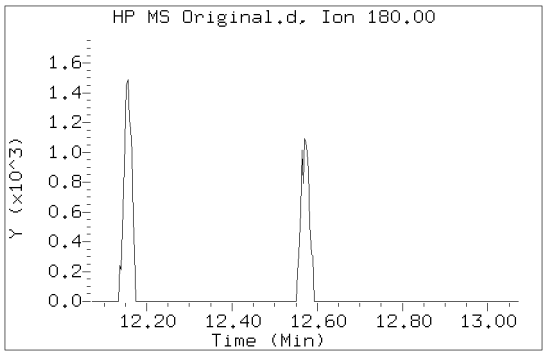
BEFORE
MASS
182
AREA
1472
HEIGHT
1245
22-Jun-2024
12:20
RUCHA
PATEL



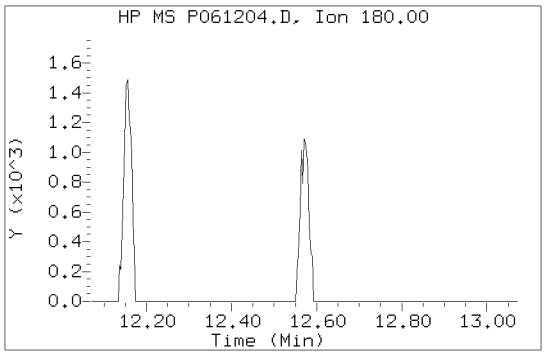
AFTER
MASS
182
AREA
1472
HEIGHT
1245
22-Jun-2024
12:20
RUCHA
PATEL



BEFORE
MASS
180
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER
MASS
180
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



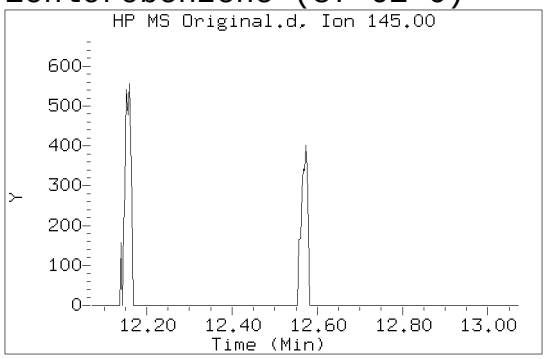
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061204.D
Inj Date : 12-JUN-2024 12:05
InstruID : voa7.i
LabSampID : VSTD001

1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

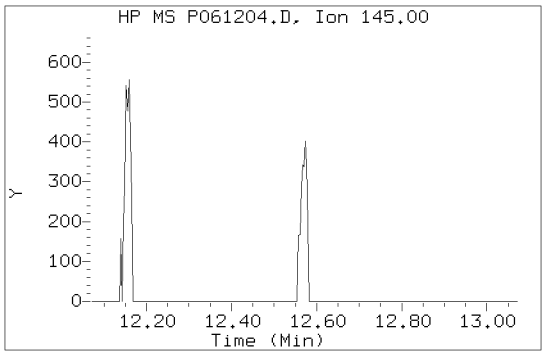
BEFORE

MASS
145
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
145
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL

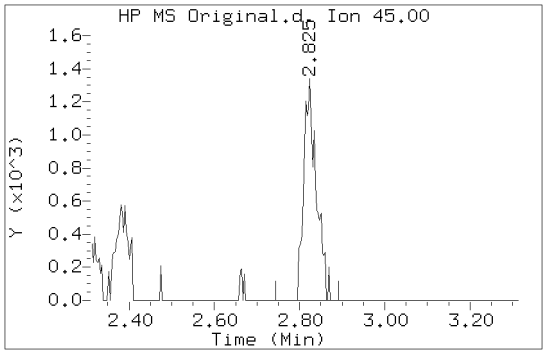


Isopropyl alcohol (67-63-0)

Reason Code:

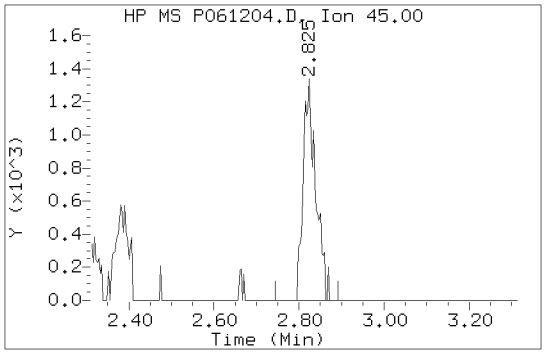
BEFORE

MASS
45
AREA
2719
HEIGHT
1340
22-Jun-2024
12:20
RUCHA
PATEL



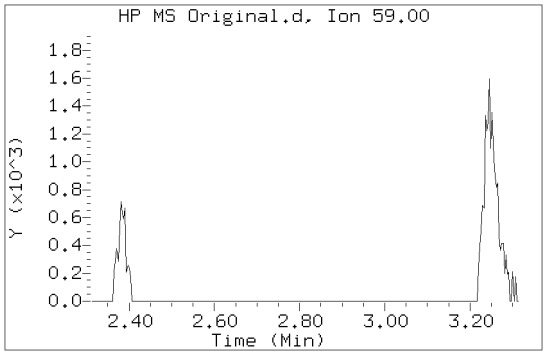
AFTER

MASS
45
AREA
2719
HEIGHT
1340
22-Jun-2024
12:20
RUCHA
PATEL



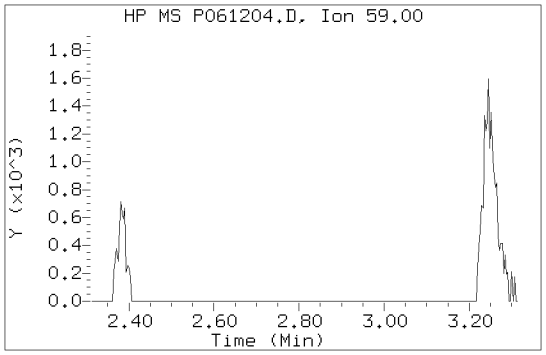
BEFORE

MASS
59
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
59
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL

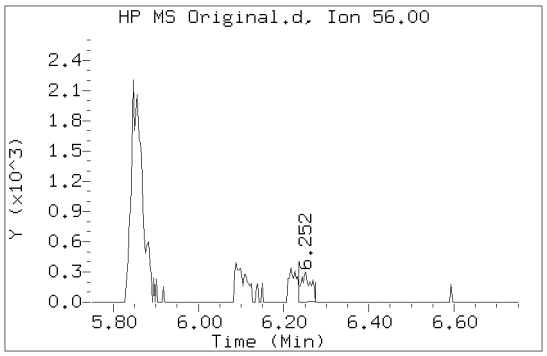


n-Butanol (71-36-3)

Reason Code:

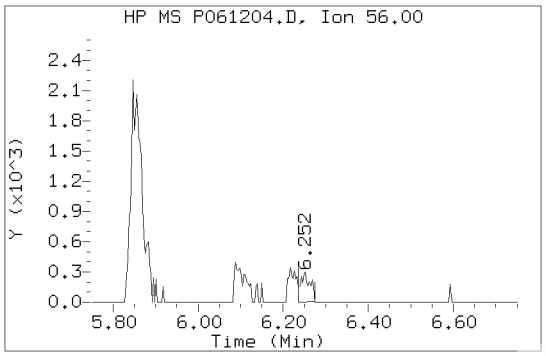
BEFORE

MASS
56
AREA
460
HEIGHT
294
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
56
AREA
460
HEIGHT
294
22-Jun-2024
12:20
RUCHA
PATEL

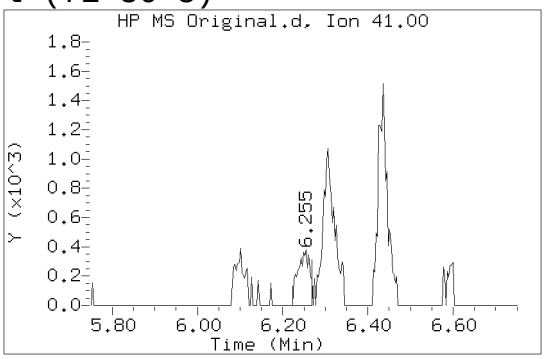


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061204.D
Inj Date : 12-JUN-2024 12:05
InstruID : voa7.i
LabSampID : VSTD001

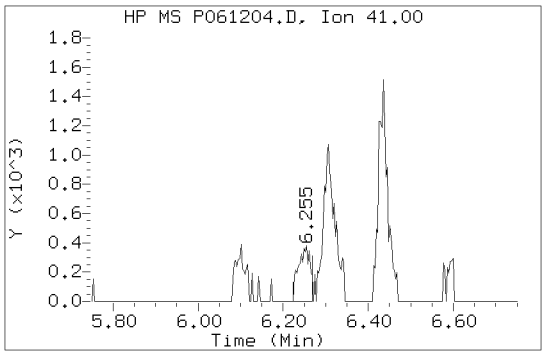
n-Butanol (71-36-3)

Reason Code:

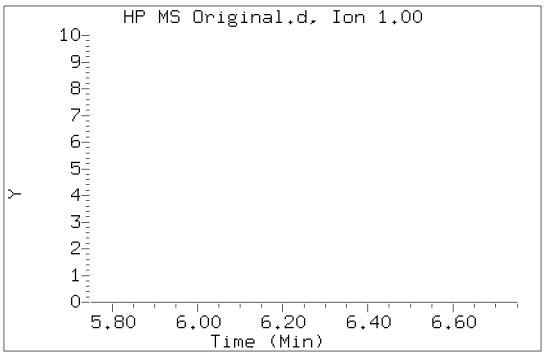
BEFORE
MASS
41
AREA
719
HEIGHT
379
22-Jun-2024
12:20
RUCHA
PATEL



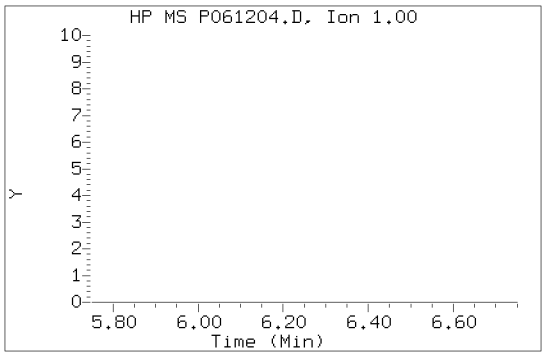
AFTER
MASS
41
AREA
719
HEIGHT
379
22-Jun-2024
12:20
RUCHA
PATEL



BEFORE
MASS
1
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



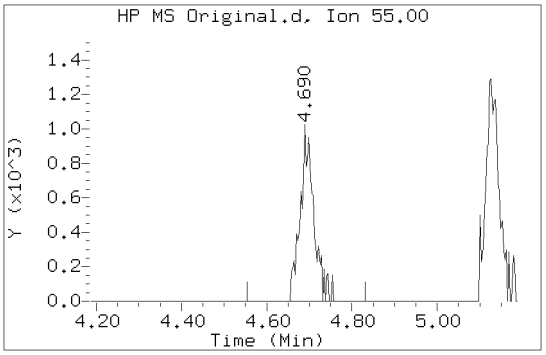
AFTER
MASS
1
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



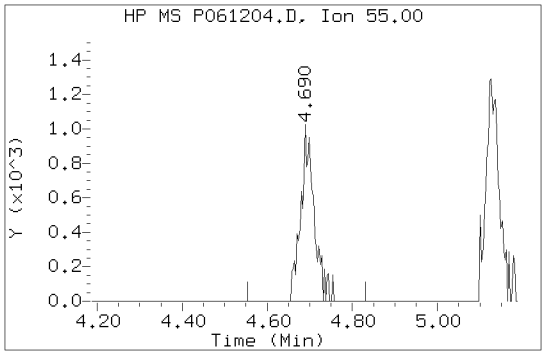
Methyl Acrylate (96-33-3)

Reason Code:

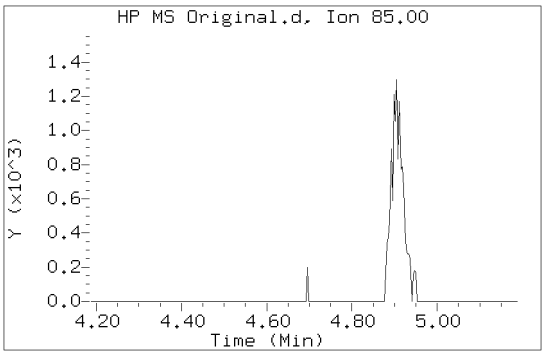
BEFORE
MASS
55
AREA
2257
HEIGHT
1026
22-Jun-2024
12:20
RUCHA
PATEL



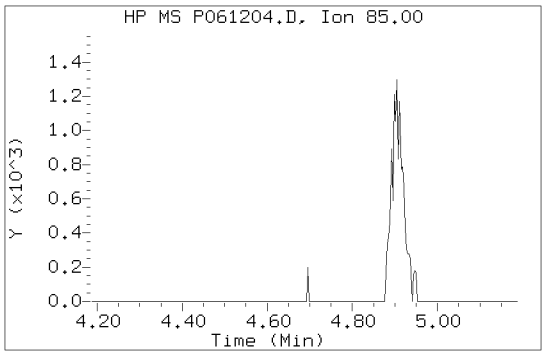
AFTER
MASS
55
AREA
2257
HEIGHT
1026
22-Jun-2024
12:20
RUCHA
PATEL



BEFORE
MASS
85
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER
MASS
85
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL

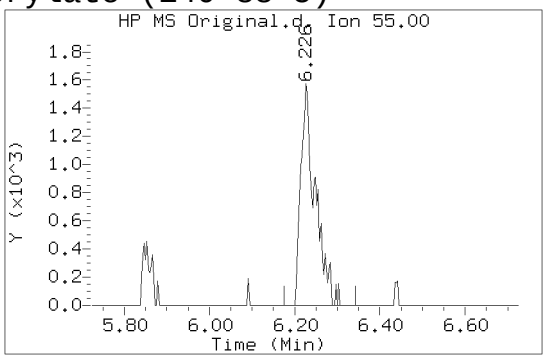


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061204.D
Inj Date : 12-JUN-2024 12:05
InstruID : voa7.i
LabSampID : VSTD001

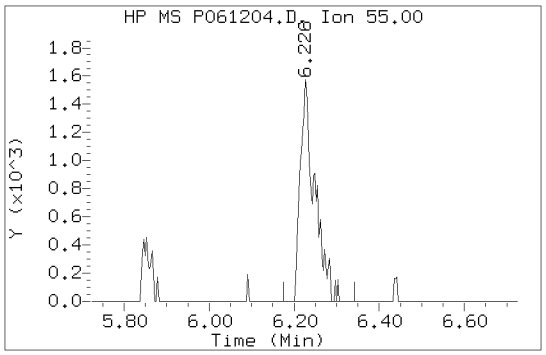
Ethyl Acrylate (140-88-5)

Reason Code:

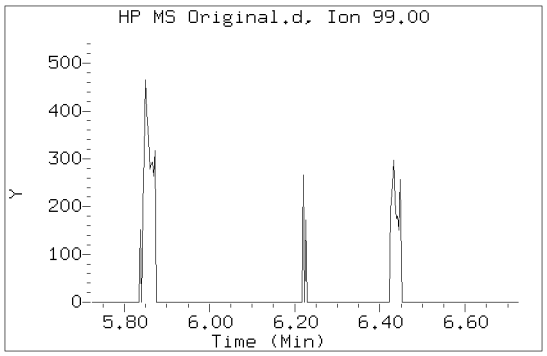
BEFORE
MASS
55
AREA
3710
HEIGHT
1574
22-Jun-2024
12:20
RUCHA
PATEL



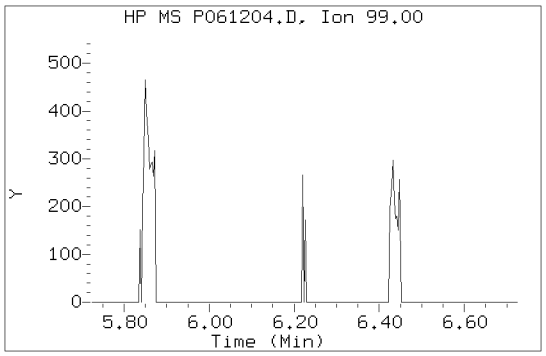
AFTER
MASS
55
AREA
3710
HEIGHT
1574
22-Jun-2024
12:20
RUCHA
PATEL



BEFORE
MASS
99
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



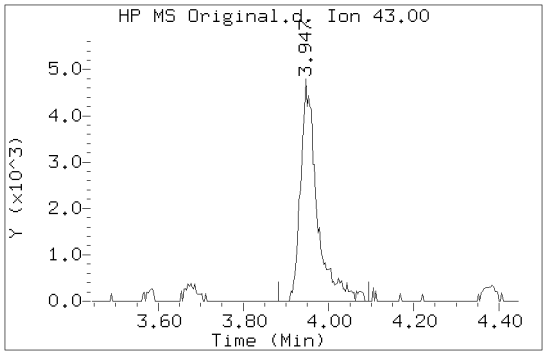
AFTER
MASS
99
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



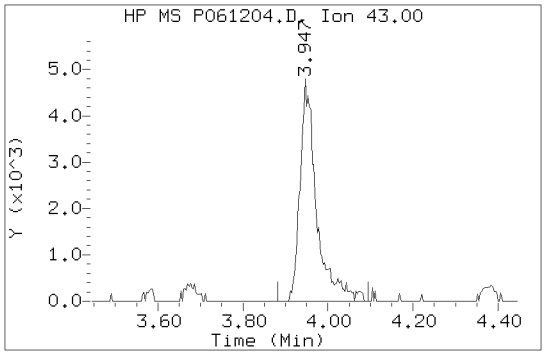
Ethyl Acetate (141-78-6)

Reason Code:

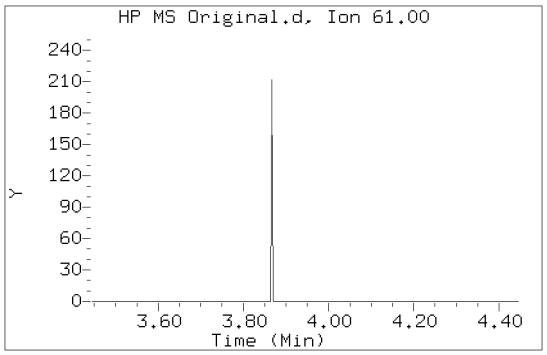
BEFORE
MASS
43
AREA
12937
HEIGHT
4795
22-Jun-2024
12:20
RUCHA
PATEL



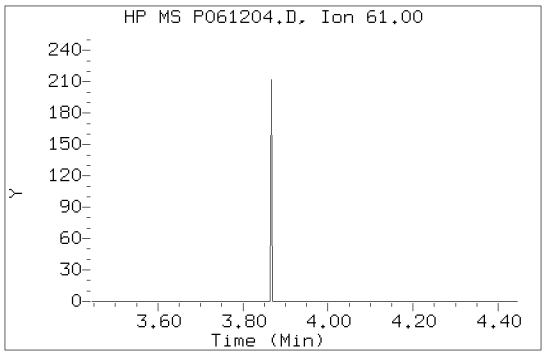
AFTER
MASS
43
AREA
12937
HEIGHT
4795
22-Jun-2024
12:20
RUCHA
PATEL



BEFORE
MASS
61
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER
MASS
61
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



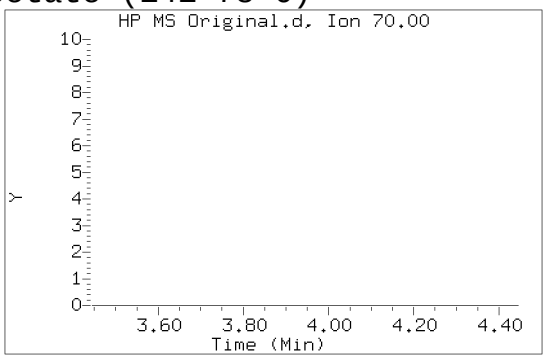
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061204.D
Inj Date : 12-JUN-2024 12:05
InstruID : voa7.i
LabSampID : VSTD001

Ethyl Acetate (141-78-6)

Reason Code:

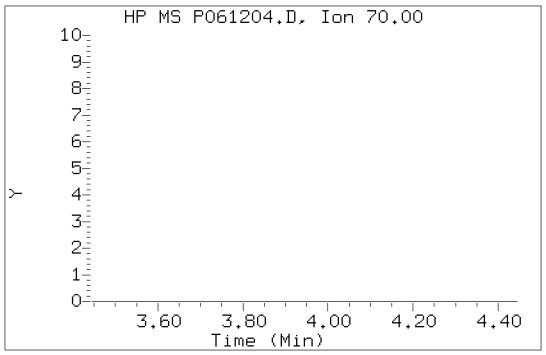
BEFORE

MASS
70
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
70
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL

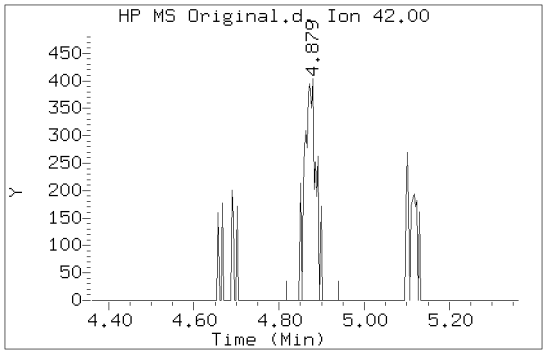


Tetrahydrofuran (109-99-9)

Reason Code:

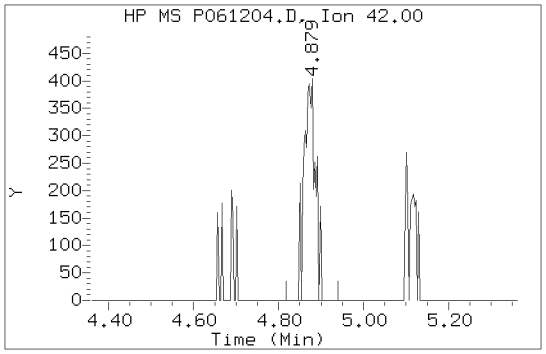
BEFORE

MASS
42
AREA
750
HEIGHT
404
22-Jun-2024
12:20
RUCHA
PATEL



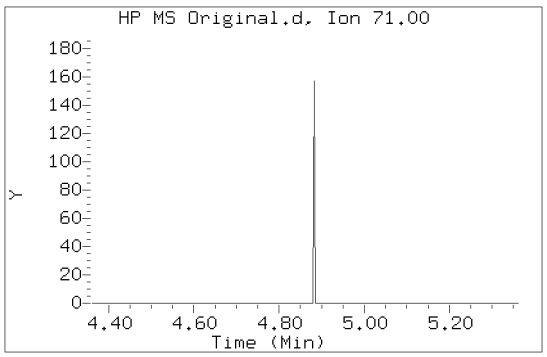
AFTER

MASS
42
AREA
750
HEIGHT
404
22-Jun-2024
12:20
RUCHA
PATEL



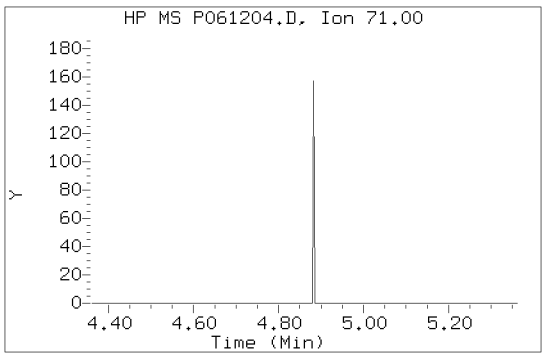
BEFORE

MASS
71
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
71
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL

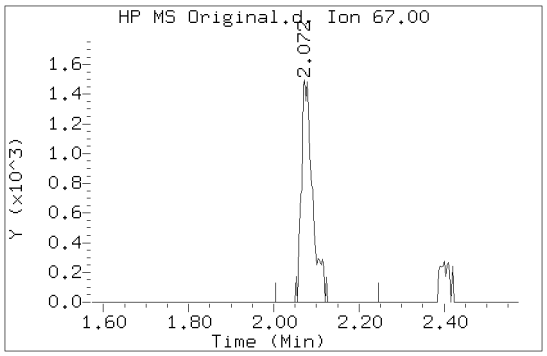


Dichlorofluoromethane (75-43-4)

Reason Code:

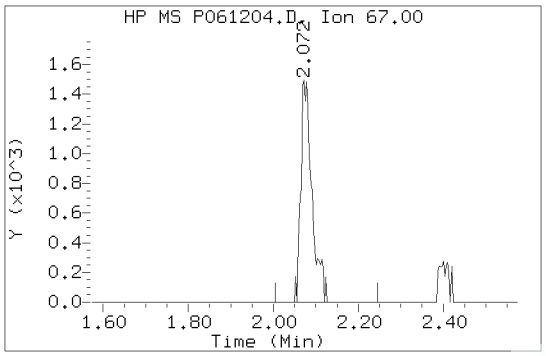
BEFORE

MASS
67
AREA
2757
HEIGHT
1496
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
67
AREA
2757
HEIGHT
1496
22-Jun-2024
12:20
RUCHA
PATEL



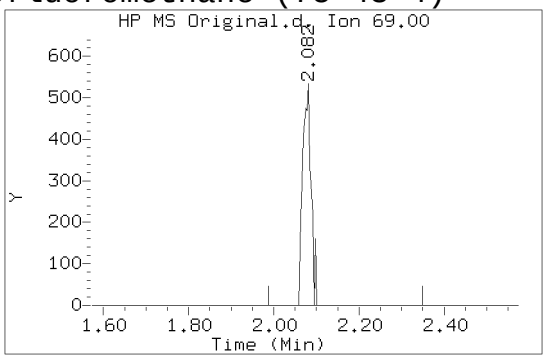
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061204.D
Inj Date : 12-JUN-2024 12:05
InstruID : voa7.i
LabSampID : VSTD001

Dichlorofluoromethane (75-43-4)

Reason Code:

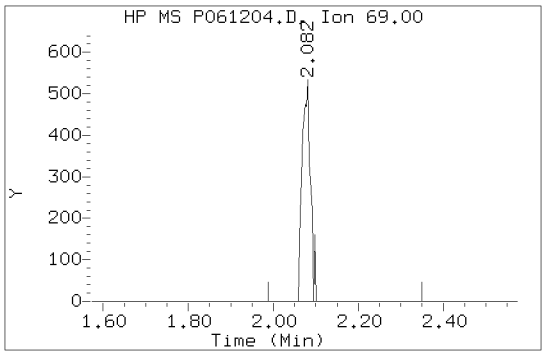
BEFORE

MASS
69
AREA
736
HEIGHT
534
22-Jun-2024
12:20
RUCHA
PATEL



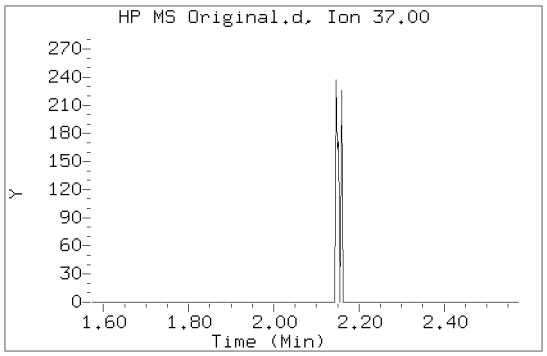
AFTER

MASS
69
AREA
736
HEIGHT
534
22-Jun-2024
12:20
RUCHA
PATEL



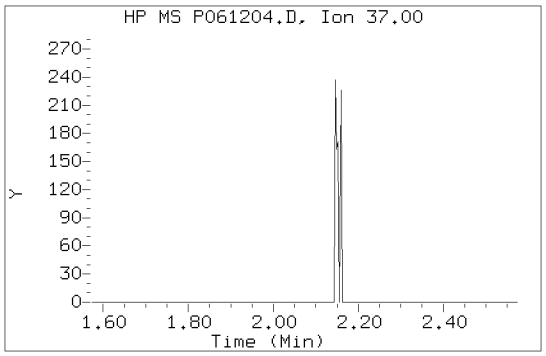
BEFORE

MASS
37
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
37
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL

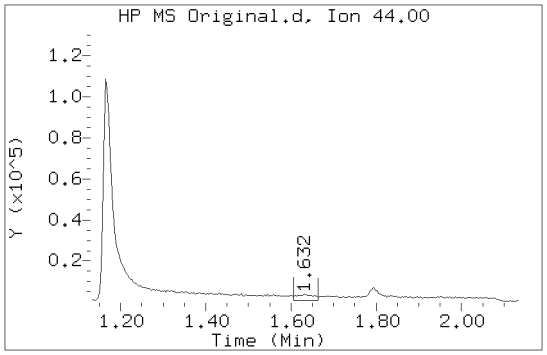


Acetaldehyde (75-07-0)

Reason Code:

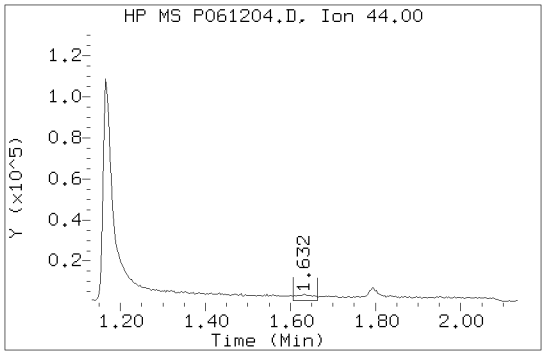
BEFORE

MASS
44
AREA
8787
HEIGHT
2981
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
44
AREA
8787
HEIGHT
2981
22-Jun-2024
12:20
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061205.D Page 1
Report Date: 22-Jun-2024 12:21

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061205.D
Lab Smp Id: VSTD002 Client Smp ID: VSTD002
Inj Date : 12-JUN-2024 12:28
Operator : AP Inst ID: voa7.i
Smp Info : VSTD002
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240612.b\8260W.m
Meth Date : 22-Jun-2024 12:21 voa7.i Quant Type: ISTD
Cal Date : 12-JUN-2024 12:05 Cal File: P061204.D
Als bottle: 8 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	5.133	5.133	(1.000)	119630	50.0000	
2	Dichlorodifluoromethane	85	1.300	1.300	(0.253)	1833	2.00000	1.28
159	Dichlorofluoromethane	67	2.075	2.075	(0.404)	6170	2.00000	2.49(M)
3	Chloromethane	50	1.451	1.451	(0.283)	5007	2.00000	1.95(a)
4	Propionitrile	54	4.676	4.676	(0.911)	5206	20.0000	27.92
5	Vinyl Chloride	62	1.538	1.538	(0.300)	3135	2.00000	1.76
6	Bromomethane	94	1.808	1.808	(0.352)	3109	2.00000	2.08
7	Chloroethane	64	1.898	1.898	(0.370)	2127	2.00000	1.74
8	Trichlorofluoromethane	101	2.111	2.111	(0.411)	3166	2.00000	1.69
9	Acrolein	56	2.512	2.512	(0.490)	140	4.00000	7.12(M)
10	Acetone	43	2.676	2.676	(0.521)	3461	4.00000	2.68
11	1,1-Dichloroethene	96	2.590	2.590	(0.505)	1692	2.00000	1.46
12	Isobutyl Alcohol	43	5.570	5.570	(1.085)	12752	40.0000	52.59
13	Acetonitrile	39	2.963	2.963	(0.577)	5409	20.0000	29.79
14	Allyl Chloride	41	2.963	2.963	(0.577)	11778	2.00000	2.90
15	Iodomethane	142	2.741	2.741	(0.534)	1257	4.00000	6.48(M)
16	Acrylonitrile	53	3.374	3.374	(0.657)	2373	4.00000	5.48
17	Methylene Chloride	84	3.094	3.094	(0.603)	4884	2.00000	2.35
18	Methyl tert-butyl ether	73	3.377	3.377	(0.658)	9247	2.00000	3.79
19	Carbon Disulfide	76	2.799	2.799	(0.545)	15355	4.00000	4.44

20 trans-1,2-Dichloroethene	96	3.377	3.377 (0.658)	2473	2.00000	1.93
21 Vinyl Acetate	43	4.663	4.663 (0.909)	5007	4.00000	5.80

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061205.D Page 2
Report Date: 22-Jun-2024 12:21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
22	1,1-Dichloroethane	63	3.860	3.860	(0.752)	6081	2.00000	2.25
23	Chloroprene	53	3.972	3.972	(0.774)	3787	2.00000	1.68(a)
24	2-Butanone	43	4.593	4.593	(0.895)	4968	4.00000	6.60
25	Methacrylonitrile	41	2.149	2.149	(0.419)	4985	2.00000	3.62(M)
26	2,2-Dichloropropane	77	4.535	4.535	(0.883)	3983	2.00000	2.25
27	cis-1,2-Dichloroethene	96	4.544	4.544	(0.885)	3811	2.00000	2.69
28	Chloroform	83	4.901	4.901	(0.955)	6529	2.00000	2.29
29	Bromochloromethane	128	4.808	4.808	(0.937)	1784	2.00000	2.06
$ 30	Dibromofluoromethane	113	5.072	5.072	(0.988)	4300	2.00000	2.94
31	1,1,1-Trichloroethane	97	5.075	5.075	(0.989)	3666	2.00000	2.09
32	1,1-Dichloropropene	75	5.245	5.245	(0.896)	3678	2.00000	2.09
33	1,2-Dichloroethane	62	5.493	5.493	(0.938)	5862	2.00000	2.26
34	Carbon Tetrachloride	117	5.233	5.233	(0.894)	3233	2.00000	2.20
$ 35	1,2-Dichloroethane-d4	65	5.422	5.422	(1.056)	5824	2.00000	2.72
* 36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	202949	50.0000	
37	Benzene	78	5.461	5.461	(0.933)	12786	2.00000	2.07
38	Trichloroethene	130	6.085	6.085	(1.040)	2891	2.00000	2.04
39	Bromodichloromethane	83	6.577	6.577	(1.124)	5306	2.00000	2.63
40	Methyl Methacrylate	41	6.438	6.438	(1.254)	4000	2.00000	2.01
41	2-Chloroethylvinyl ether	63	6.853	6.853	(1.171)	2824	4.00000	4.70(aM)
42	1,2-Dichloropropane	63	6.313	6.313	(1.079)	3943	2.00000	2.39
43	2-Nitropropane	43	6.808	6.808	(1.326)	1280	2.00000	3.61(a)
44	Dibromomethane	93	6.425	6.425	(1.098)	2361	2.00000	2.53
45	4-Methyl-2-Pentanone	43	7.126	7.126	(0.842)	9217	4.00000	4.42
46	cis-1,3-Dichloropropene	75	6.975	6.975	(1.192)	5638	2.00000	3.19
* 47	Chlorobenzene-d5	117	8.467	8.467	(1.000)	190307	50.0000	
$ 48	Toluene-d8	98	7.207	7.207	(0.851)	15674	2.00000	2.08
49	Ethyl Methacrylate	69	8.075	8.075	(1.380)	2930	2.00000	2.52
50	Toluene	91	7.265	7.265	(0.858)	13432	2.00000	1.60
51	trans-1,3-Dichloropropene	75	6.975	6.975	(1.192)	5638	2.00000	3.19
52	2-Hexanone	43	7.859	7.859	(0.928)	6350	4.00000	4.67
53	1,1,2-Trichloroethane	83	7.638	7.638	(0.902)	3155	2.00000	1.81
54	1,3-Dichloropropane	76	7.786	7.786	(0.919)	6405	2.00000	1.84
55	Dibromochloromethane	129	7.972	7.972	(0.942)	3975	2.00000	2.44
56	Tetrachloroethene	164	7.737	7.737	(0.914)	1867	2.00000	1.34
57	1,2-Dibromoethane	107	8.075	8.075	(0.954)	3262	2.00000	2.21
58	1-Chlorohexane	55	8.467	8.467	(1.447)	4335	2.00000	1.48
59	Chlorobenzene	112	8.490	8.490	(1.003)	9520	2.00000	1.87
60	1,1,1,2-Tetrachloroethane	131	8.557	8.557	(1.011)	3184	2.00000	2.31
61	Ethylbenzene	106	8.583	8.583	(1.014)	4421	2.00000	1.89
62	m,p-Xylenes	106	8.683	8.683	(1.025)	10925	4.00000	3.51
63	o-Xylene	106	9.023	9.023	(1.066)	5603	2.00000	1.81
64	Styrene	104	9.036	9.036	(1.067)	9482	2.00000	2.13
66	Bromoform	173	9.203	9.203	(1.087)	2434	2.00000	2.71(T)
67	Isopropylbenzene	105	9.339	9.339	(1.103)	11370	2.00000	1.47
68	1,1,2,2-Tetrachloroethane	83	9.609	9.609	(0.919)	5085	2.00000	1.69
$ 69	4-Bromofluorobenzene	95	9.474	9.474	(1.119)	8132	2.00000	2.42
* 70	1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	89278	50.0000	
71	1,2,3-Trichloropropane	75	9.647	9.647	(0.923)	5811	2.00000	1.87
72	trans-1,4-Dichloro-2-butene	53	9.654	9.654	(1.140)	1085	2.00000	2.91
73	n-Propylbenzene	91	9.689	9.689	(0.927)	14008	2.00000	1.15
74	Bromobenzene	156	9.602	9.602	(0.918)	4190	2.00000	1.56

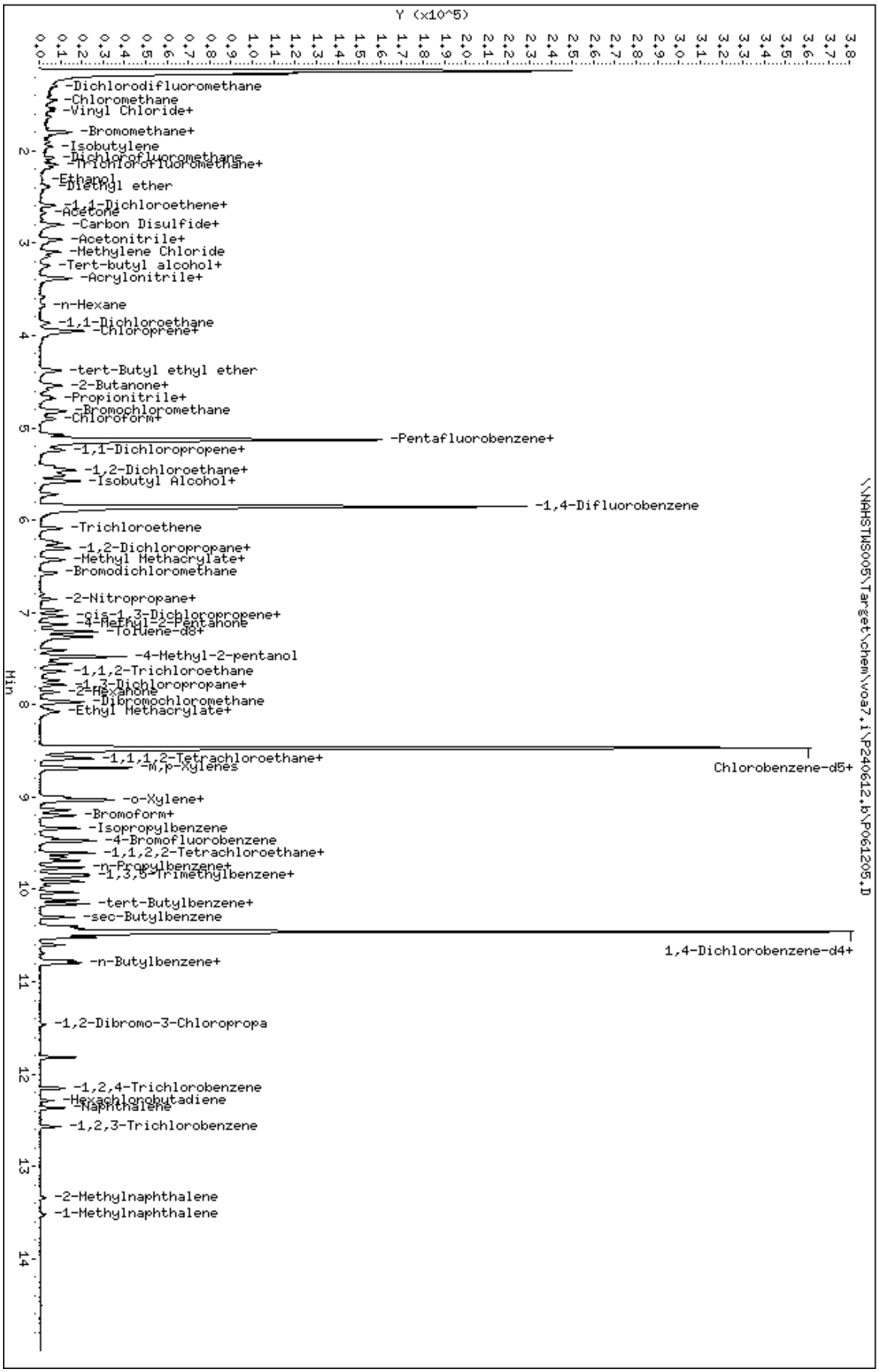
75	1,3,5-Trimethylbenzene	105	9.840	9.840 (0.941)	10479	2.00000	1.58
76	2-Chlorotoluene	91	9.763	9.763 (0.934)	10626	2.00000	1.38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
77	4-Chlorotoluene	91	9.856	9.856	(0.943)	12467	2.00000	1.41
78	tert-Butylbenzene	119	10.117	10.117	(0.967)	7955	2.00000	0.95(a)
79	1,2,4-Trimethylbenzene	105	10.158	10.158	(0.971)	11212	2.00000	1.45
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	9992	2.00000	0.92(a)
82	p-Isopropyltoluene	119	10.425	10.425	(0.997)	9592	2.00000	1.88
83	1,3-Dichlorobenzene	146	10.400	10.400	(0.994)	6890	2.00000	1.71
84	1,4-Dichlorobenzene	146	10.477	10.477	(1.002)	7277	2.00000	1.67
87	n-Butylbenzene	91	10.776	10.776	(1.030)	7997	2.00000	1.73
88	1,2-Dichlorobenzene	146	10.798	10.798	(1.033)	6840	2.00000	1.74
89	1,2-Dibromo-3-Chloropropane	75	11.464	11.464	(1.096)	606	2.00000	2.29
90	1,2,4-Trichlorobenzene	180	12.158	12.158	(1.163)	3484	2.00000	2.30
91	Hexachlorobutadiene	225	12.284	12.284	(1.175)	1306	2.00000	1.79
92	Naphthalene	128	12.367	12.367	(1.183)	7916	2.00000	2.24
93	1,2,3-Trichlorobenzene	182	12.567	12.567	(1.202)	2374	2.00000	2.18(M)
146	Methyl acetate	43	2.998	2.998	(0.584)	3590	2.00000	3.05(a)
138	Freon TF	101	2.599	2.599	(0.506)	1434	2.00000	1.76
139	Diethyl ether	59	2.377	2.377	(0.463)	2216	2.00000	3.07
140	1,3-Butadiene	54	1.561	1.561	(0.304)	874	2.00000	1.98(a)
141	Cyclohexane	56	5.130	5.130	(0.999)	4809	2.00000	2.15
147	Methylcyclohexane	83	6.249	6.249	(1.068)	3793	2.00000	2.88
132	n-Butanol	56	6.252	6.252	(1.218)	1996	40.0000	50.11(TM)
131	Methyl Acrylate	55	4.689	4.689	(0.914)	4202	2.00000	2.60
133	Ethyl Acrylate	55	6.220	6.220	(1.212)	8585	2.00000	2.53(M)
136	n-Hexane	57	3.686	3.686	(0.718)	1262	2.00000	1.95
142	Tetrahydrofuran	42	4.863	4.863	(0.947)	1310	4.00000	6.81
148	Tert-butyl alcohol	59	3.239	3.239	(0.631)	5655	40.0000	33.26
149	Isopropyl alcohol	45	2.821	2.821	(0.550)	4734	40.0000	60.31(M)
151	4-Methyl-2-pentanol	45	7.477	7.477	(0.883)	22526	40.0000	62.08
166	1,2,3-Trimethylbenzene	105	10.522	10.522	(1.006)	12970	2.00000	1.85
167	Ethanol	45	2.307	2.307	(0.449)	1128	40.0000	27.65(T)
172	tert-Butyl formate	59	3.239	3.239	(0.631)	6008	4.00000	3.69
173	3,3-Dimethyl-1-butanol	57	8.068	8.068	(0.953)	5907	40.0000	58.31(M)
174	tert-Amyl methyl ether	73	5.583	5.583	(1.088)	11166	2.00000	2.53
175	tert-Butyl ethyl ether	59	4.387	4.387	(0.855)	10850	2.00000	2.66
157	2-Methylnaphthalene	142	13.345	13.345	(1.276)	1586	2.00000	4.16
156	Diisopropyl ether	45	3.950	3.950	(0.770)	11883	2.00000	2.95(T)
171	1-Methylnaphthalene	142	13.522	13.522	(1.293)	1519	2.00000	3.99
130	Ethyl Acetate	43	3.946	3.946	(0.769)	25416	2.00000	3.62(aM)
176	tert-Amyl alcohol	59	5.516	5.516	(1.075)	5627	40.0000	31.00
160	Epichlorohydrin	57	6.924	6.924	(1.183)	854	8.00000	10.86
161	Butyl acrylate	55	8.998	8.998	(1.063)	8919	2.00000	3.18(a)
182	Isobutylene	56	1.953	1.953	(0.381)	162	2.00000	0.98(TaAM)
183	Isopropyl Acetate	43	5.570	5.570	(0.952)	12752	2.00000	2.35(aA)
184	n-Amyl acetate	43	9.194	9.194	(1.086)	8186	2.00000	3.62(aA)
185	Acetaldehyde	44	1.628	1.628	(0.317)	11092	8.00000	5.92(AM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa7,i\P240612,b\P061205,D
Date : 12-JUN-2024 12:28
Client ID: VSTD002
Sample Info: VSTD002
Purge Volume: 5.0
Column phase: DB624

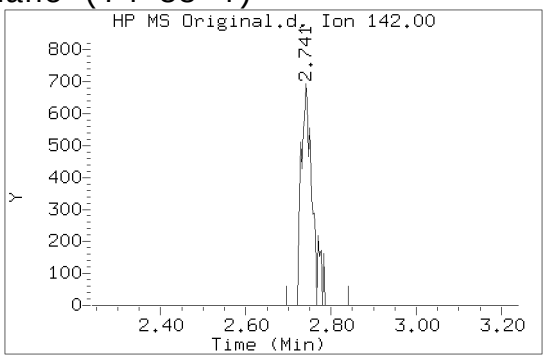
Instrument: voa7,i
Operator: AP
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061205.D
Inj Date : 12-JUN-2024 12:28
InstruID : voa7.i
LabSampID : VSTD002

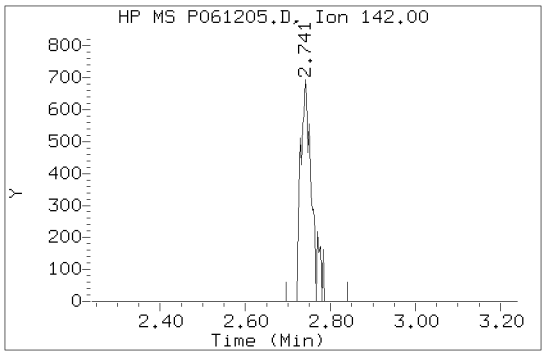
Iodomethane (74-88-4)

Reason Code:

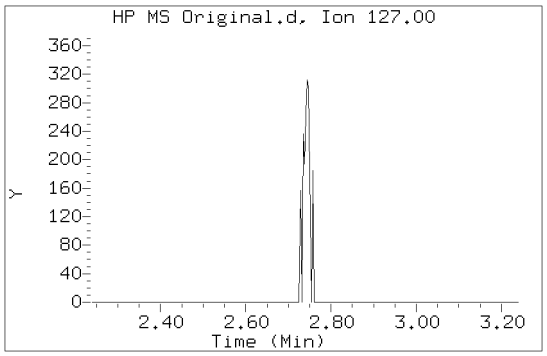
BEFORE
MASS
142
AREA
1257
HEIGHT
694
22-Jun-2024
12:20
RUCHA
PATEL



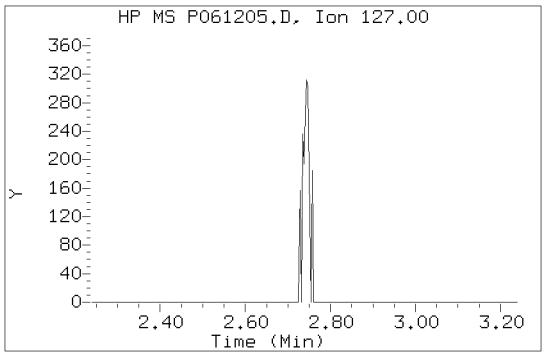
AFTER
MASS
142
AREA
1257
HEIGHT
694
22-Jun-2024
12:20
RUCHA
PATEL



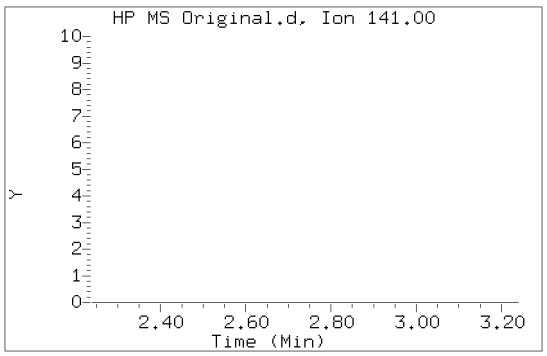
BEFORE
MASS
127
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



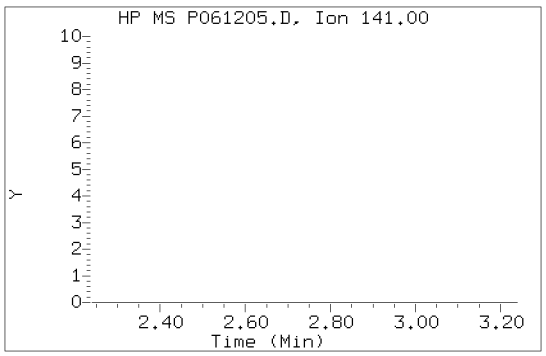
AFTER
MASS
127
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



BEFORE
MASS
141
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



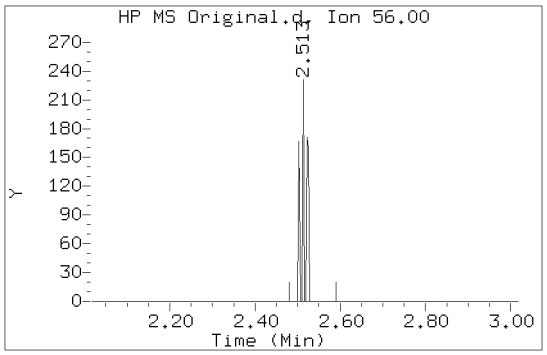
AFTER
MASS
141
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



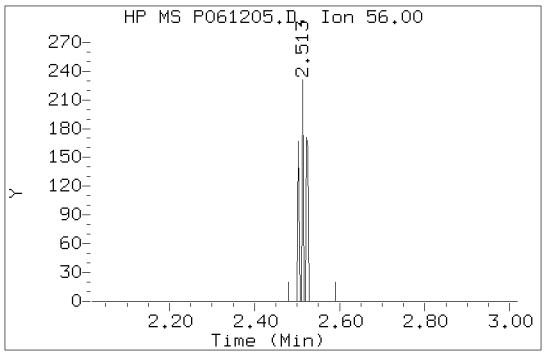
Acrolein (107-02-8)

Reason Code:

BEFORE
MASS
56
AREA
140
HEIGHT
231
22-Jun-2024
12:20
RUCHA
PATEL



AFTER
MASS
56
AREA
140
HEIGHT
231
22-Jun-2024
12:20
RUCHA
PATEL



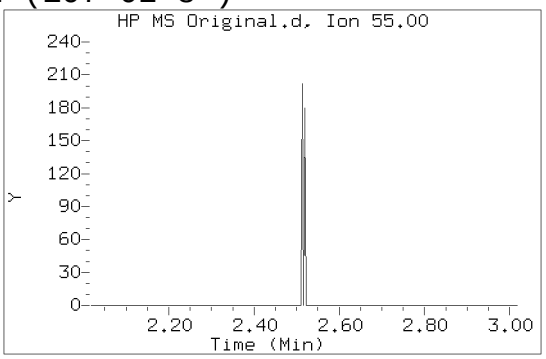
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061205.D
Inj Date : 12-JUN-2024 12:28
InstruID : voa7.i
LabSampID : VSTD002

Acrolein (107-02-8)

Reason Code:

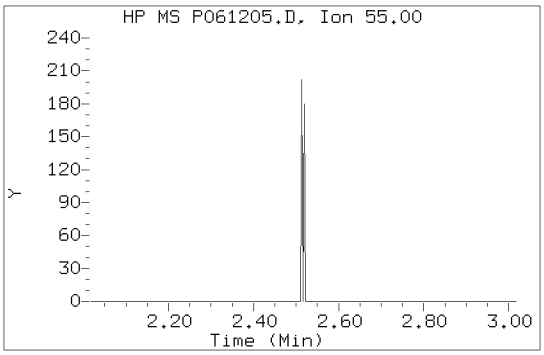
BEFORE

MASS
55
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
55
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL

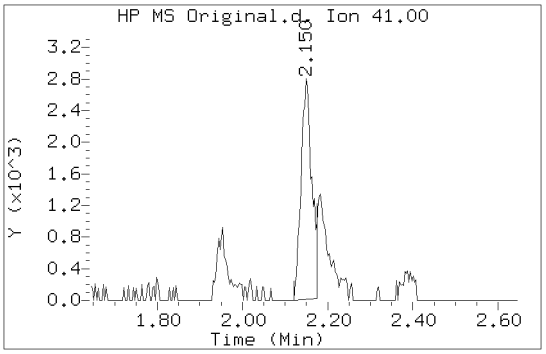


Methacrylonitrile (126-98-7)

Reason Code:

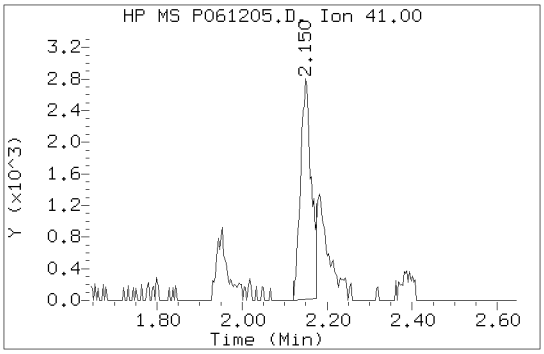
BEFORE

MASS
41
AREA
4985
HEIGHT
2789
22-Jun-2024
12:20
RUCHA
PATEL



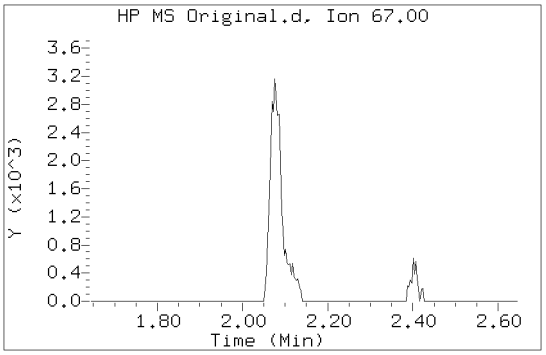
AFTER

MASS
41
AREA
4985
HEIGHT
2789
22-Jun-2024
12:20
RUCHA
PATEL



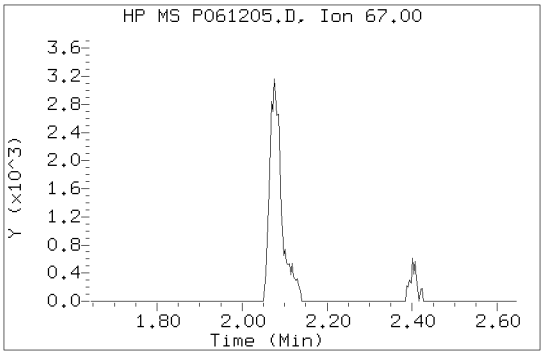
BEFORE

MASS
67
AREA
1210
HEIGHT
976
22-Jun-2024
12:20
RUCHA
PATEL



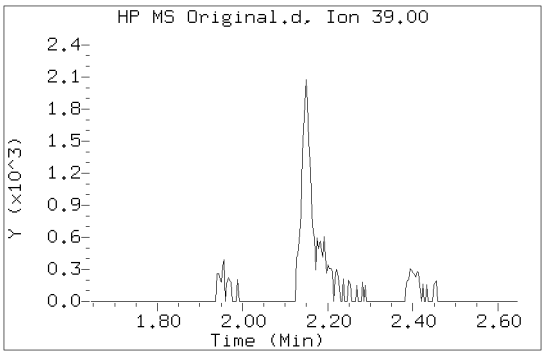
AFTER

MASS
67
AREA
1210
HEIGHT
976
22-Jun-2024
12:20
RUCHA
PATEL



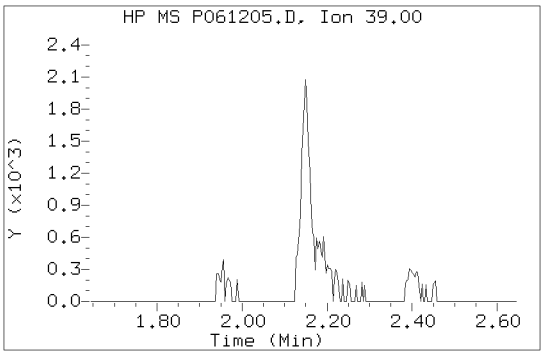
BEFORE

MASS
39
AREA
698
HEIGHT
462
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
39
AREA
698
HEIGHT
462
22-Jun-2024
12:20
RUCHA
PATEL



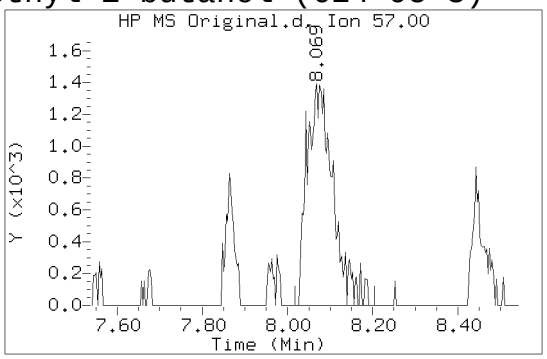
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061205.D
Inj Date : 12-JUN-2024 12:28
InstruID : voa7.i
LabSampID : VSTD002

3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

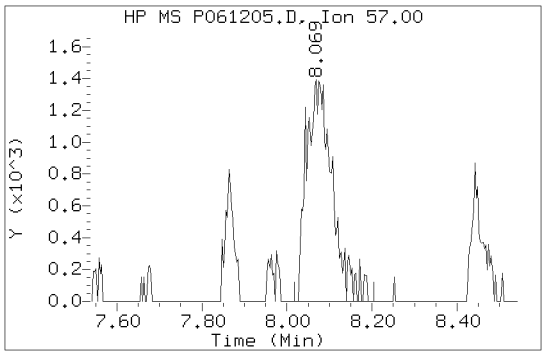
BEFORE

MASS
57
AREA
5907
HEIGHT
1393
22-Jun-2024
12:20
RUCHA
PATEL



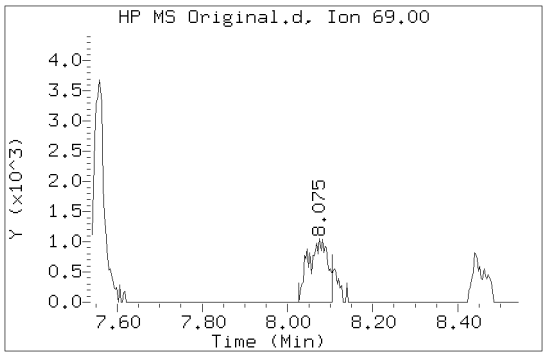
AFTER

MASS
57
AREA
5907
HEIGHT
1393
22-Jun-2024
12:20
RUCHA
PATEL



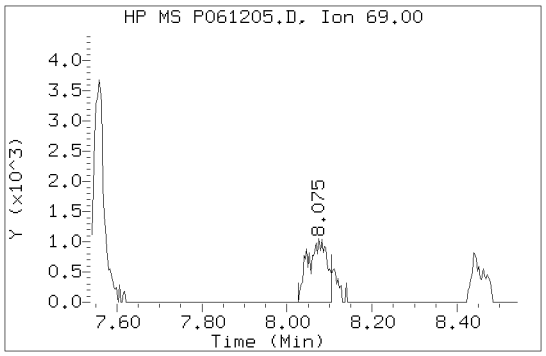
BEFORE

MASS
69
AREA
3289
HEIGHT
1052
22-Jun-2024
12:20
RUCHA
PATEL



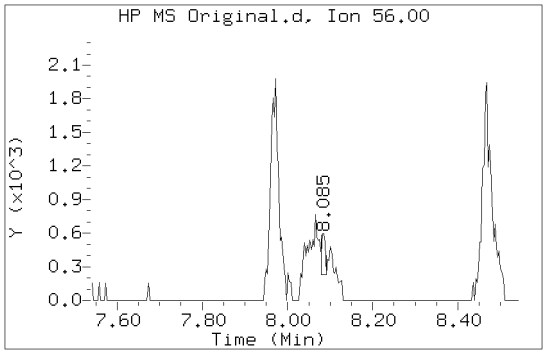
AFTER

MASS
69
AREA
3289
HEIGHT
1052
22-Jun-2024
12:20
RUCHA
PATEL



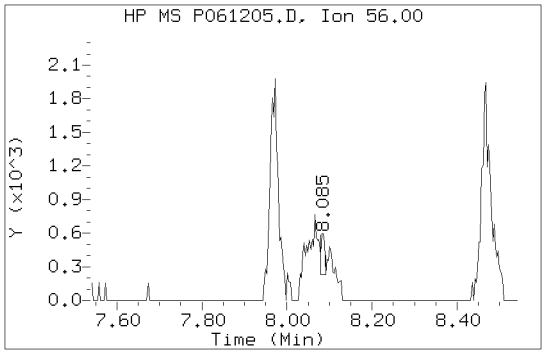
BEFORE

MASS
56
AREA
233
HEIGHT
369
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
56
AREA
233
HEIGHT
369
22-Jun-2024
12:20
RUCHA
PATEL

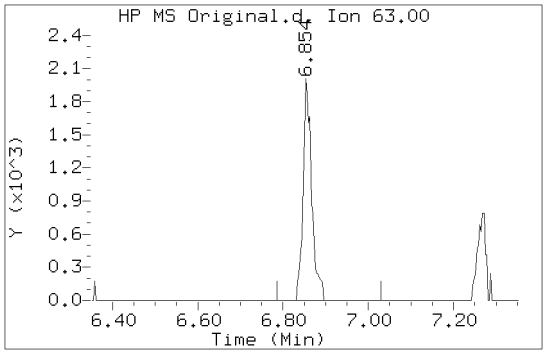


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

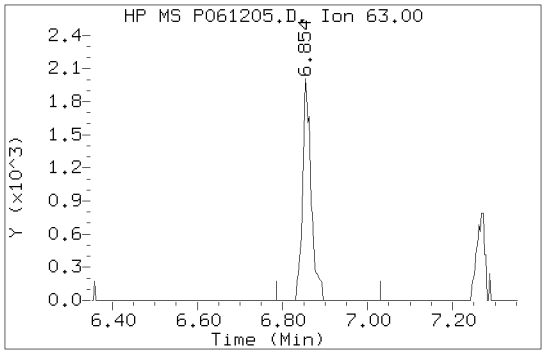
BEFORE

MASS
63
AREA
2824
HEIGHT
2008
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
63
AREA
2824
HEIGHT
2008
22-Jun-2024
12:20
RUCHA
PATEL



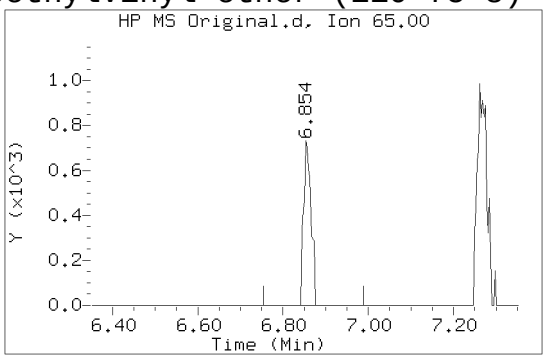
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061205.D
Inj Date : 12-JUN-2024 12:28
InstruID : voa7.i
LabSampID : VSTD002

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

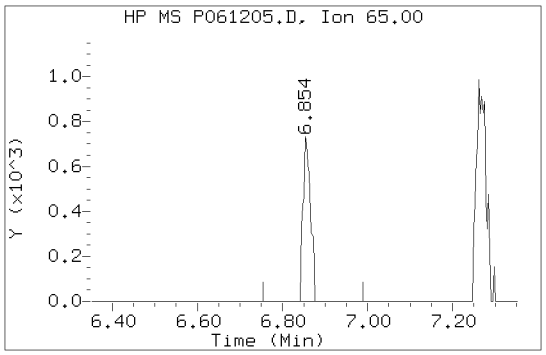
BEFORE

MASS
65
AREA
912
HEIGHT
733
22-Jun-2024
12:20
RUCHA
PATEL



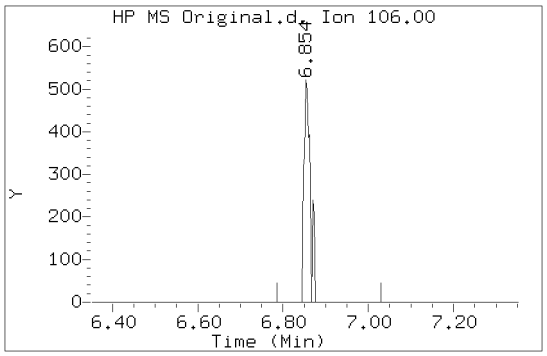
AFTER

MASS
65
AREA
912
HEIGHT
733
22-Jun-2024
12:20
RUCHA
PATEL



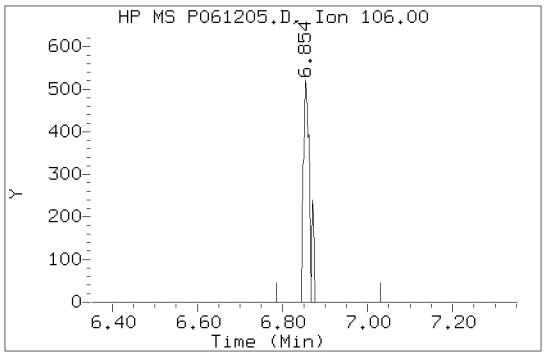
BEFORE

MASS
106
AREA
560
HEIGHT
522
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
106
AREA
560
HEIGHT
522
22-Jun-2024
12:20
RUCHA
PATEL

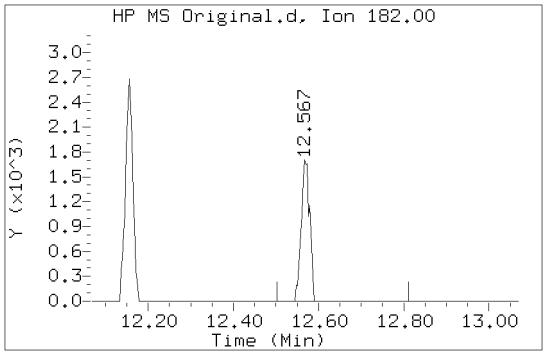


1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

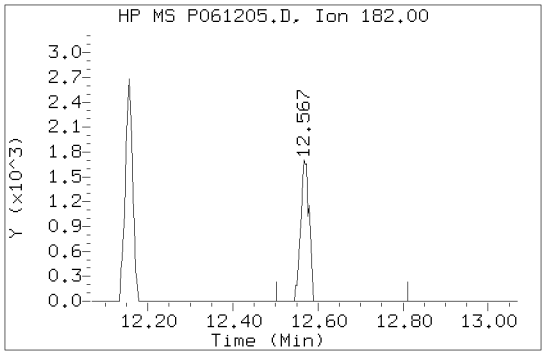
BEFORE

MASS
182
AREA
2374
HEIGHT
1710
22-Jun-2024
12:20
RUCHA
PATEL



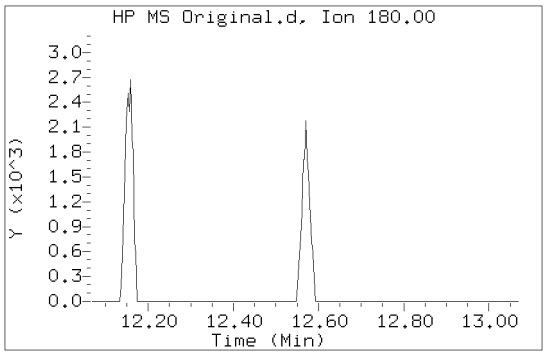
AFTER

MASS
182
AREA
2374
HEIGHT
1710
22-Jun-2024
12:20
RUCHA
PATEL



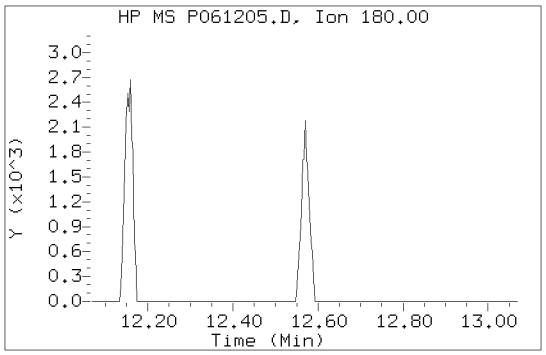
BEFORE

MASS
180
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
180
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



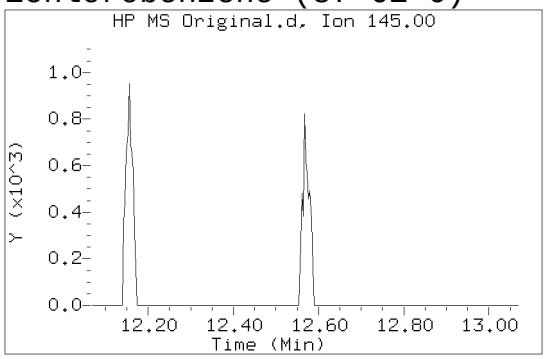
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061205.D
Inj Date : 12-JUN-2024 12:28
InstruID : voa7.i
LabSampID : VSTD002

1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

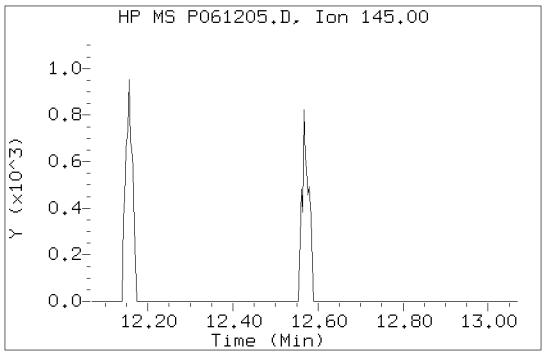
BEFORE

MASS
145
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
145
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL

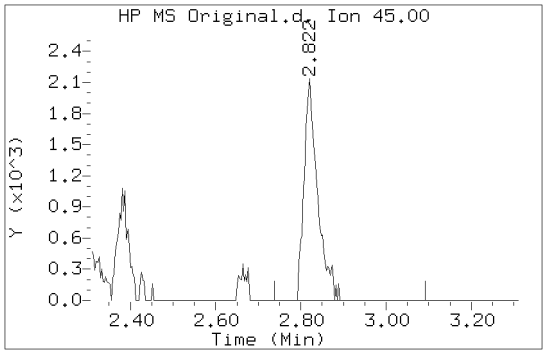


Isopropyl alcohol (67-63-0)

Reason Code:

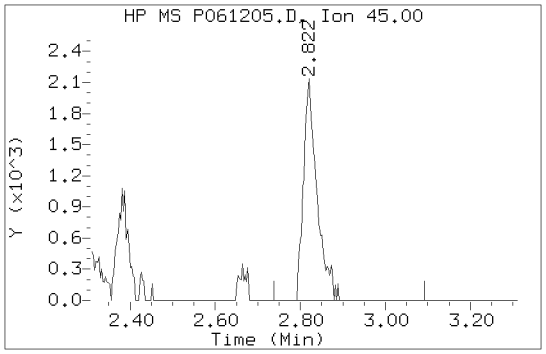
BEFORE

MASS
45
AREA
4734
HEIGHT
2136
22-Jun-2024
12:20
RUCHA
PATEL



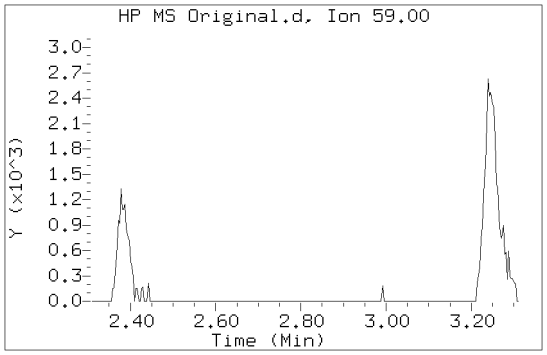
AFTER

MASS
45
AREA
4734
HEIGHT
2136
22-Jun-2024
12:20
RUCHA
PATEL



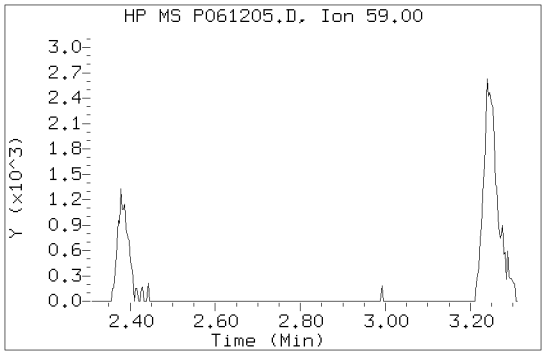
BEFORE

MASS
59
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
59
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL

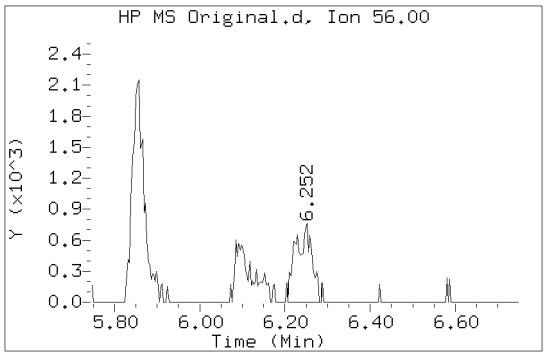


n-Butanol (71-36-3)

Reason Code:

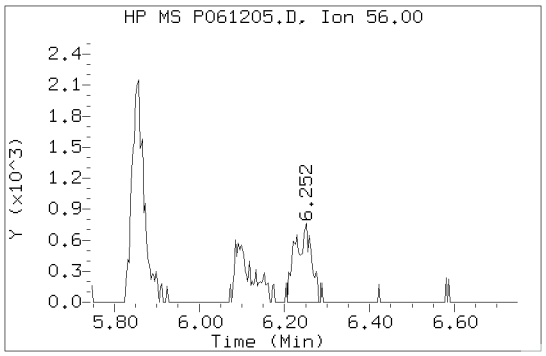
BEFORE

MASS
56
AREA
1996
HEIGHT
762
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
56
AREA
1996
HEIGHT
762
22-Jun-2024
12:20
RUCHA
PATEL

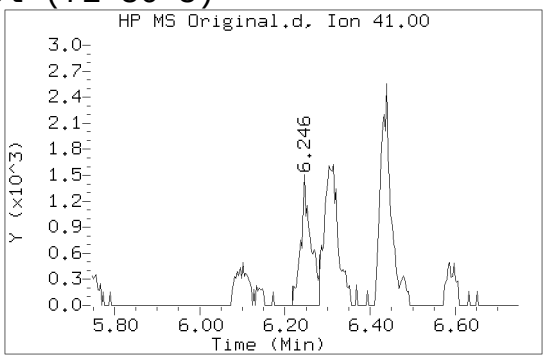


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061205.D
Inj Date : 12-JUN-2024 12:28
InstruID : voa7.i
LabSampID : VSTD002

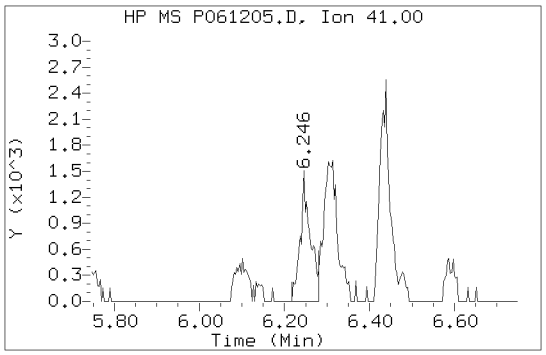
n-Butanol (71-36-3)

Reason Code:

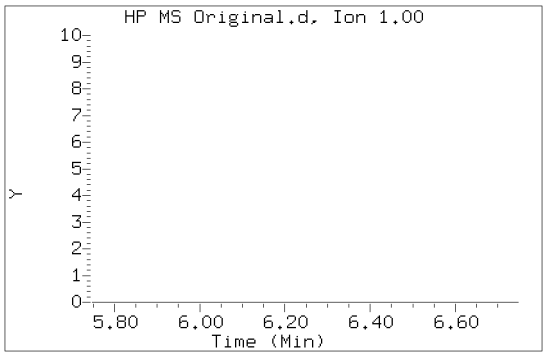
BEFORE
MASS
41
AREA
2509
HEIGHT
1506
22-Jun-2024
12:20
RUCHA
PATEL



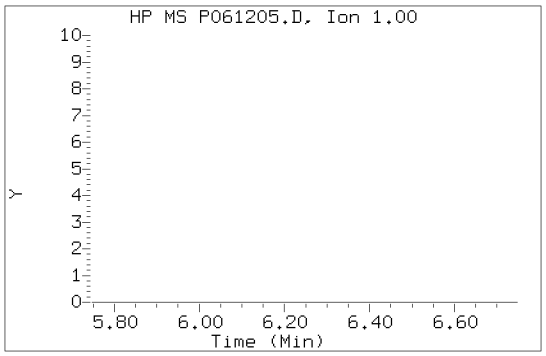
AFTER
MASS
41
AREA
2509
HEIGHT
1506
22-Jun-2024
12:20
RUCHA
PATEL



BEFORE
MASS
1
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



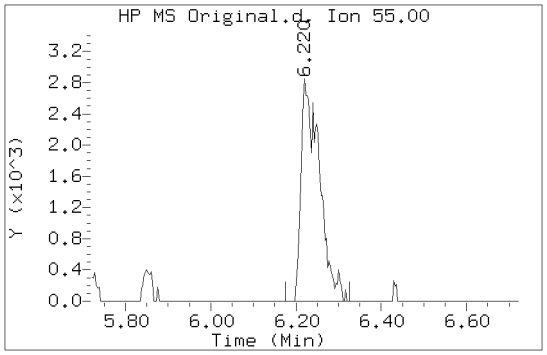
AFTER
MASS
1
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



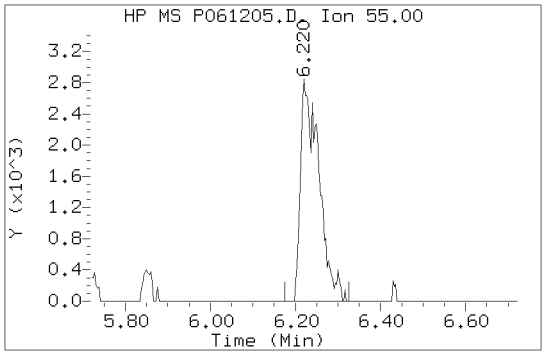
Ethyl Acrylate (140-88-5)

Reason Code:

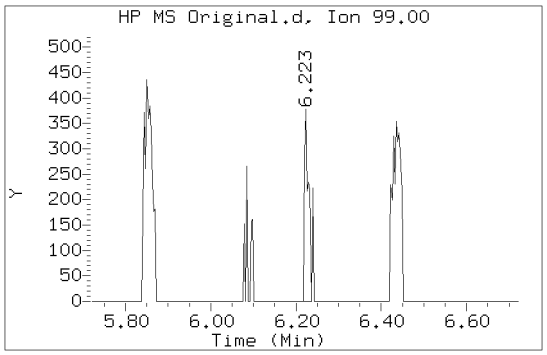
BEFORE
MASS
55
AREA
8585
HEIGHT
2848
22-Jun-2024
12:20
RUCHA
PATEL



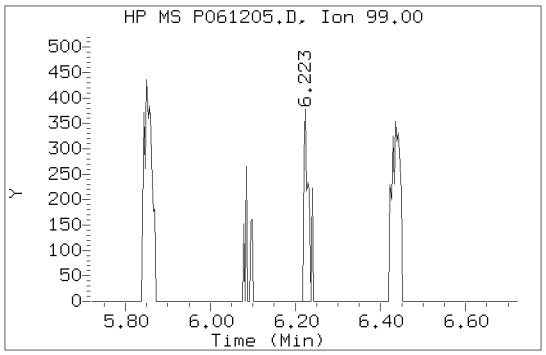
AFTER
MASS
55
AREA
8585
HEIGHT
2848
22-Jun-2024
12:20
RUCHA
PATEL



BEFORE
MASS
99
AREA
257
HEIGHT
378
22-Jun-2024
12:20
RUCHA
PATEL



AFTER
MASS
99
AREA
257
HEIGHT
378
22-Jun-2024
12:20
RUCHA
PATEL



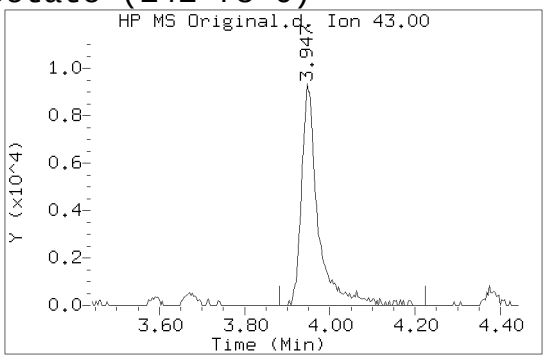
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061205.D
Inj Date : 12-JUN-2024 12:28
InstruID : voa7.i
LabSampID : VSTD002

Ethyl Acetate (141-78-6)

Reason Code:

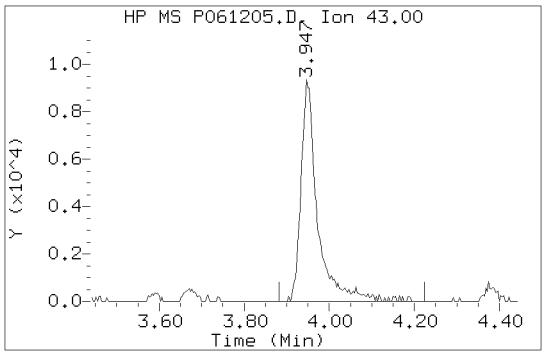
BEFORE

MASS
43
AREA
25416
HEIGHT
9353
22-Jun-2024
12:20
RUCHA
PATEL



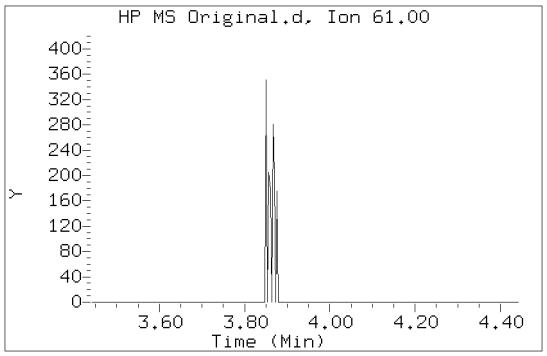
AFTER

MASS
43
AREA
25416
HEIGHT
9353
22-Jun-2024
12:20
RUCHA
PATEL



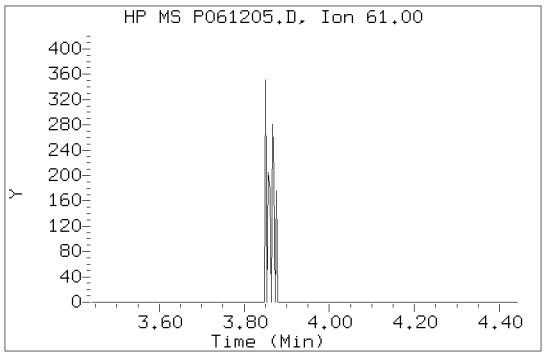
BEFORE

MASS
61
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



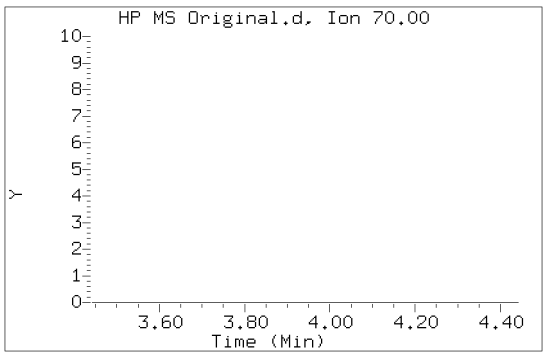
AFTER

MASS
61
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



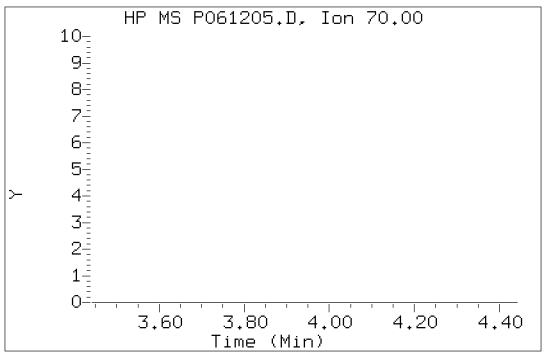
BEFORE

MASS
70
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
70
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL

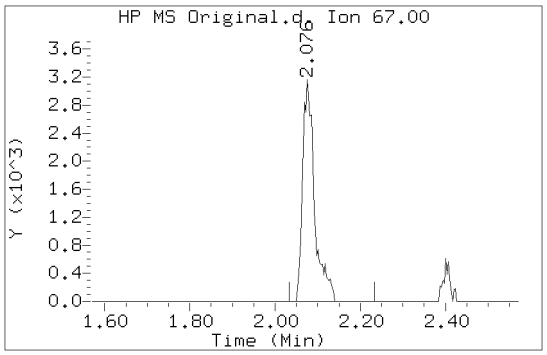


Dichlorofluoromethane (75-43-4)

Reason Code:

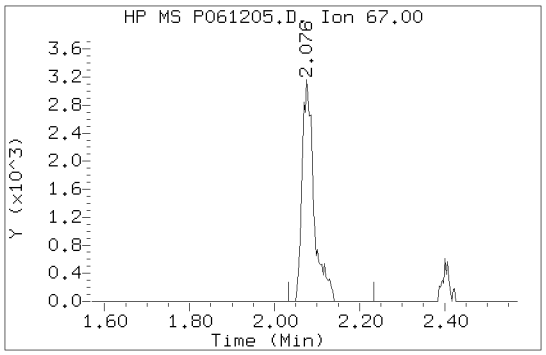
BEFORE

MASS
67
AREA
6170
HEIGHT
3163
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
67
AREA
6170
HEIGHT
3163
22-Jun-2024
12:20
RUCHA
PATEL

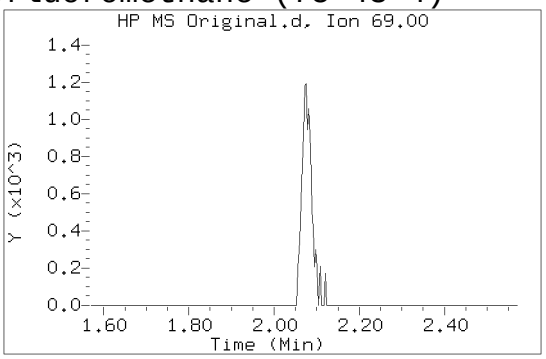


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061205.D
Inj Date : 12-JUN-2024 12:28
InstruID : voa7.i
LabSampID : VSTD002

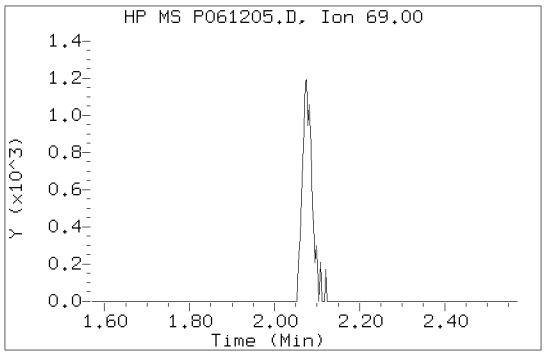
Dichlorofluoromethane (75-43-4)

Reason Code:

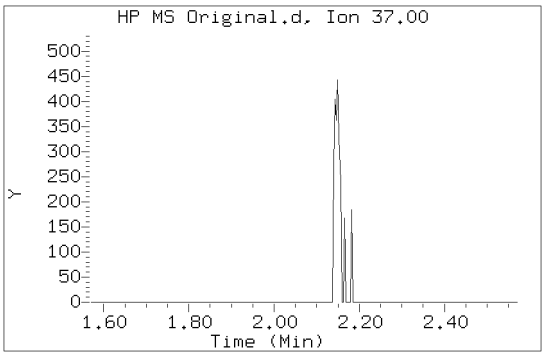
BEFORE
MASS
69
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



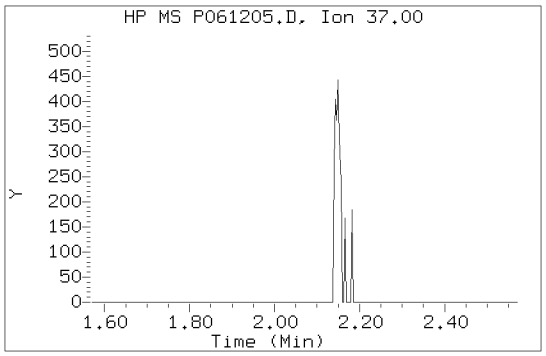
AFTER
MASS
69
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



BEFORE
MASS
37
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



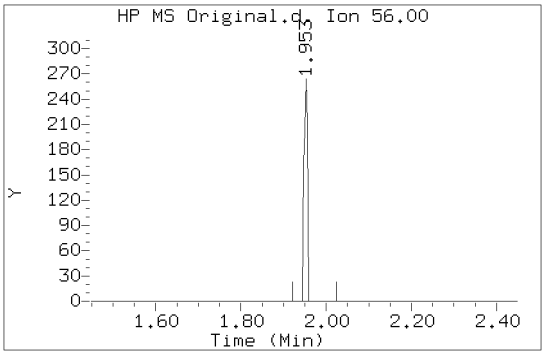
AFTER
MASS
37
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



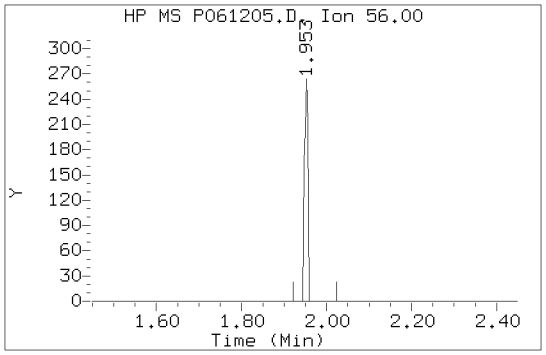
Isobutylene (115-11-7)

Reason Code:

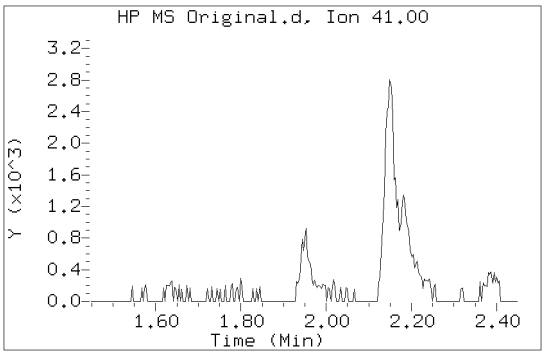
BEFORE
MASS
56
AREA
162
HEIGHT
264
22-Jun-2024
12:20
RUCHA
PATEL



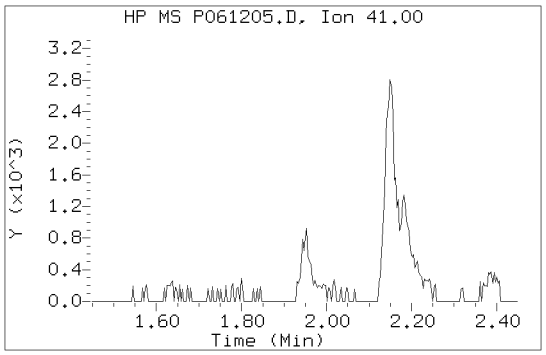
AFTER
MASS
56
AREA
162
HEIGHT
264
22-Jun-2024
12:20
RUCHA
PATEL



BEFORE
MASS
41
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER
MASS
41
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



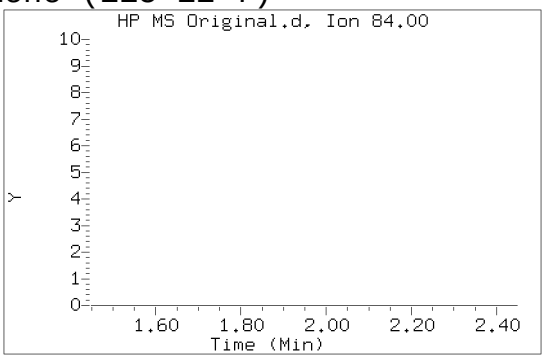
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061205.D
Inj Date : 12-JUN-2024 12:28
InstruID : voa7.i
LabSampID : VSTD002

Isobutylene (115-11-7)

Reason Code:

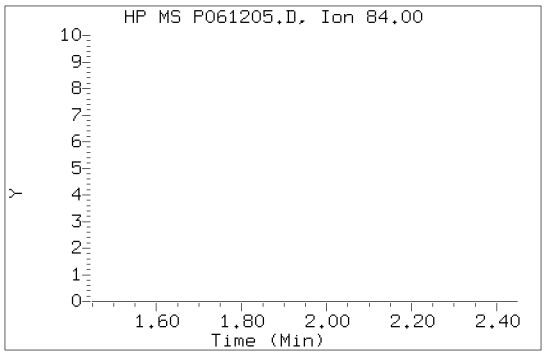
BEFORE

MASS
84
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
84
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL

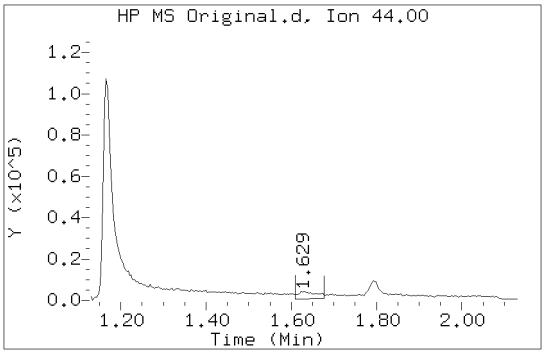


Acetaldehyde (75-07-0)

Reason Code:

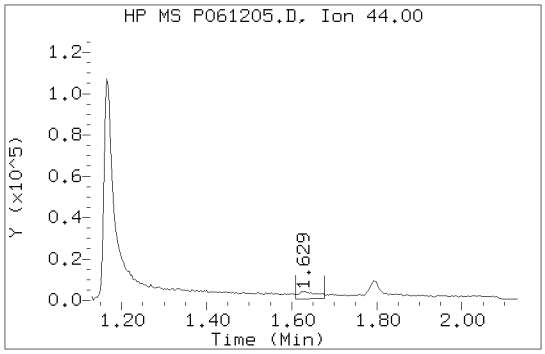
BEFORE

MASS
44
AREA
11092
HEIGHT
3669
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
44
AREA
11092
HEIGHT
3669
22-Jun-2024
12:20
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061206.D Page 1
Report Date: 22-Jun-2024 12:21

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061206.D
Lab Smp Id: VSTD005 Client Smp ID: VSTD005
Inj Date : 12-JUN-2024 12:51
Operator : AP Inst ID: voa7.i
Smp Info : VSTD005
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240612.b\8260W.m
Meth Date : 22-Jun-2024 12:21 voa7.i Quant Type: ISTD
Cal Date : 12-JUN-2024 12:28 Cal File: P061205.D
Als bottle: 9 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	5.130	5.130	(1.000)	119979	50.0000	
2	Dichlorodifluoromethane	85	1.294	1.294	(0.252)	5732	5.00000	4.45
159	Dichlorofluoromethane	67	2.075	2.075	(0.405)	11781	5.00000	4.75
3	Chloromethane	50	1.451	1.451	(0.283)	9757	5.00000	4.52(a)
4	Propionitrile	54	4.670	4.670	(0.910)	7847	50.0000	44.61
5	Vinyl Chloride	62	1.535	1.535	(0.299)	8287	5.00000	4.88
6	Bromomethane	94	1.808	1.808	(0.353)	6316	5.00000	4.97
7	Chloroethane	64	1.902	1.902	(0.371)	5207	5.00000	4.84
8	Trichlorofluoromethane	101	2.107	2.107	(0.411)	10035	5.00000	4.81
9	Acrolein	56	2.532	2.532	(0.494)	294	10.0000	10.06(M)
10	Acetone	43	2.664	2.664	(0.519)	5792	10.0000	8.76(M)
11	1,1-Dichloroethene	96	2.593	2.593	(0.506)	5121	5.00000	4.42(M)
12	Isobutyl Alcohol	43	5.577	5.577	(1.087)	20180	100.000	92.20
13	Acetonitrile	39	2.956	2.956	(0.576)	8747	50.0000	49.53
14	Allyl Chloride	41	2.963	2.963	(0.578)	18967	5.00000	4.90
15	Iodomethane	142	2.744	2.744	(0.535)	3777	10.0000	9.25
16	Acrylonitrile	53	3.381	3.381	(0.659)	3922	10.0000	9.32
17	Methylene Chloride	84	3.094	3.094	(0.603)	8581	5.00000	5.08
18	Methyl tert-butyl ether	73	3.384	3.384	(0.660)	14360	5.00000	5.37
19	Carbon Disulfide	76	2.792	2.792	(0.544)	35818	10.0000	9.82

20 trans-1,2-Dichloroethene	96	3.377	3.377 (0.658)	5819	5.00000	4.53
21 Vinyl Acetate	43	4.663	4.663 (0.909)	8177	10.0000	10.68(M)

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061206.D Page 2
Report Date: 22-Jun-2024 12:21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
22	1,1-Dichloroethane	63	3.863	3.863	(0.753)	12786	5.00000	4.83
23	Chloroprene	53	3.963	3.963	(0.772)	9947	5.00000	4.41(a)
24	2-Butanone	43	4.593	4.593	(0.895)	7043	10.0000	10.47
25	Methacrylonitrile	41	2.149	2.149	(0.419)	9929	5.00000	6.08(M)
26	2,2-Dichloropropane	77	4.528	4.528	(0.883)	9923	5.00000	4.86
27	cis-1,2-Dichloroethene	96	4.541	4.541	(0.885)	7198	5.00000	5.06
28	Chloroform	83	4.905	4.905	(0.956)	12716	5.00000	4.73
29	Bromochloromethane	128	4.805	4.805	(0.937)	3309	5.00000	4.31
$ 30	Dibromofluoromethane	113	5.069	5.069	(0.988)	6860	5.00000	4.94
31	1,1,1-Trichloroethane	97	5.072	5.072	(0.989)	9862	5.00000	4.81(M)
32	1,1-Dichloropropene	75	5.245	5.245	(0.896)	8873	5.00000	4.78
33	1,2-Dichloroethane	62	5.493	5.493	(0.938)	10763	5.00000	4.64
34	Carbon Tetrachloride	117	5.233	5.233	(0.894)	8745	5.00000	4.97
$ 35	1,2-Dichloroethane-d4	65	5.416	5.416	(1.056)	9601	5.00000	4.98
* 36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	197145	50.0000	
37	Benzene	78	5.461	5.461	(0.933)	26743	5.00000	4.84
38	Trichloroethene	130	6.091	6.091	(1.041)	6363	5.00000	4.63
39	Bromodichloromethane	83	6.570	6.570	(1.122)	9709	5.00000	4.92
40	Methyl Methacrylate	41	6.432	6.432	(1.254)	6961	5.00000	4.46
41	2-Chloroethylvinyl ether	63	6.856	6.856	(1.171)	4830	10.0000	8.82(M)
42	1,2-Dichloropropane	63	6.313	6.313	(1.079)	7516	5.00000	4.83
43	2-Nitropropane	43	6.805	6.805	(1.327)	2164	5.00000	5.69
44	Dibromomethane	93	6.419	6.419	(1.097)	4269	5.00000	4.84
45	4-Methyl-2-Pentanone	43	7.130	7.130	(0.842)	14553	10.0000	8.78
46	cis-1,3-Dichloropropene	75	6.978	6.978	(1.192)	10102	5.00000	5.25
* 47	Chlorobenzene-d5	117	8.467	8.467	(1.000)	183412	50.0000	
$ 48	Toluene-d8	98	7.207	7.207	(0.851)	25676	5.00000	4.45
49	Ethyl Methacrylate	69	8.081	8.081	(1.381)	6472	5.00000	5.42
50	Toluene	91	7.261	7.261	(0.858)	27240	5.00000	4.30
51	trans-1,3-Dichloropropene	75	6.978	6.978	(1.192)	10102	5.00000	5.25
52	2-Hexanone	43	7.863	7.863	(0.929)	10165	10.0000	9.11
53	1,1,2-Trichloroethane	83	7.641	7.641	(0.902)	5269	5.00000	4.02
54	1,3-Dichloropropane	76	7.782	7.782	(0.919)	11372	5.00000	4.31
55	Dibromochloromethane	129	7.978	7.978	(0.942)	6657	5.00000	4.39
56	Tetrachloroethene	164	7.734	7.734	(0.913)	4775	5.00000	4.20
57	1,2-Dibromoethane	107	8.075	8.075	(0.954)	5796	5.00000	4.93
58	1-Chlorohexane	55	8.470	8.470	(1.447)	7631	5.00000	4.19
59	Chlorobenzene	112	8.493	8.493	(1.003)	18614	5.00000	4.59
60	1,1,1,2-Tetrachloroethane	131	8.567	8.567	(1.012)	6203	5.00000	4.69
61	Ethylbenzene	106	8.583	8.583	(1.014)	8642	5.00000	4.32
62	m,p-Xylenes	106	8.683	8.683	(1.025)	22915	10.0000	8.96
63	o-Xylene	106	9.023	9.023	(1.066)	11500	5.00000	4.61
64	Styrene	104	9.039	9.039	(1.068)	18457	5.00000	4.65
66	Bromoform	173	9.207	9.207	(1.087)	4305	5.00000	4.83
67	Isopropylbenzene	105	9.339	9.339	(1.103)	26698	5.00000	4.30
68	1,1,2,2-Tetrachloroethane	83	9.609	9.609	(0.919)	8324	5.00000	4.24
$ 69	4-Bromofluorobenzene	95	9.474	9.474	(1.119)	11003	5.00000	4.25
* 70	1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	84374	50.0000	
71	1,2,3-Trichloropropane	75	9.650	9.650	(0.923)	9154	5.00000	4.31
72	trans-1,4-Dichloro-2-butene	53	9.654	9.654	(1.140)	1825	5.00000	4.98
73	n-Propylbenzene	91	9.689	9.689	(0.927)	31484	5.00000	4.21
74	Bromobenzene	156	9.602	9.602	(0.918)	7622	5.00000	4.34

75	1,3,5-Trimethylbenzene	105	9.837	9.837 (0.941)	21967	5.00000	4.43
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	20862	5.00000	4.33

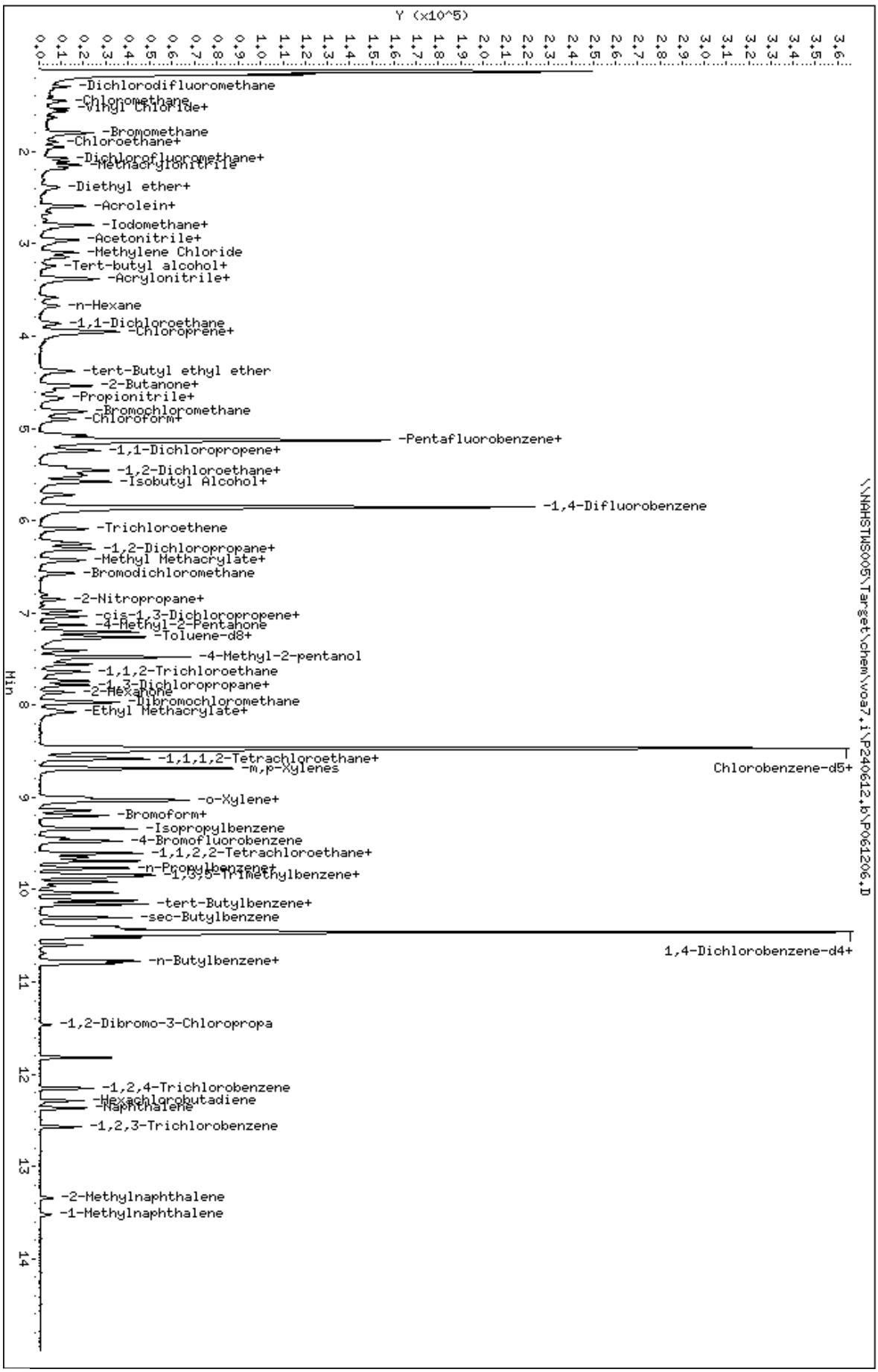
Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061206.D Page 3
Report Date: 22-Jun-2024 12:21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
77	4-Chlorotoluene	91	9.859	9.859	(0.943)	24474	5.00000	4.37
78	tert-Butylbenzene	119	10.120	10.120	(0.968)	18573	5.00000	4.09
79	1,2,4-Trimethylbenzene	105	10.155	10.155	(0.971)	23050	5.00000	4.40
81	sec-Butylbenzene	105	10.300	10.300	(0.985)	25390	5.00000	4.17
82	p-Isopropyltoluene	119	10.425	10.425	(0.997)	21415	5.00000	4.45
83	1,3-Dichlorobenzene	146	10.400	10.400	(0.994)	12753	5.00000	4.32
84	1,4-Dichlorobenzene	146	10.477	10.477	(1.002)	13852	5.00000	4.49
87	n-Butylbenzene	91	10.773	10.773	(1.030)	19907	5.00000	4.56
88	1,2-Dichlorobenzene	146	10.798	10.798	(1.033)	12779	5.00000	4.45
89	1,2-Dibromo-3-Chloropropane	75	11.464	11.464	(1.096)	1252	5.00000	5.00
90	1,2,4-Trichlorobenzene	180	12.158	12.158	(1.163)	6547	5.00000	4.47
91	Hexachlorobutadiene	225	12.287	12.287	(1.175)	3227	5.00000	4.70
92	Naphthalene	128	12.367	12.367	(1.183)	14800	5.00000	4.46
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	5273	5.00000	4.71(M)
146	Methyl acetate	43	2.995	2.995	(0.584)	5072	5.00000	4.62(a)
138	Freon TF	101	2.586	2.586	(0.504)	4806	5.00000	4.46(M)
139	Diethyl ether	59	2.381	2.381	(0.464)	3375	5.00000	4.48
140	1,3-Butadiene	54	1.564	1.564	(0.305)	2741	5.00000	4.46(a)
141	Cyclohexane	56	5.107	5.107	(0.996)	10009	5.00000	4.79
147	Methylcyclohexane	83	6.249	6.249	(1.068)	8440	5.00000	5.30
132	n-Butanol	56	6.255	6.255	(1.219)	4168	100.000	104.02(TM)
131	Methyl Acrylate	55	4.692	4.692	(0.915)	6677	5.00000	4.59
133	Ethyl Acrylate	55	6.226	6.226	(1.214)	16137	5.00000	4.74
136	n-Hexane	57	3.680	3.680	(0.717)	4913	5.00000	4.54
142	Tetrahydrofuran	42	4.866	4.866	(0.949)	1795	10.0000	9.05
148	Tert-butyl alcohol	59	3.242	3.242	(0.632)	9734	100.000	87.81
149	Isopropyl alcohol	45	2.818	2.818	(0.549)	8371	100.000	107.93(M)
151	4-Methyl-2-pentanol	45	7.480	7.480	(0.883)	44355	100.000	123.33
166	1,2,3-Trimethylbenzene	105	10.519	10.519	(1.006)	21630	5.00000	4.37
167	Ethanol	45	2.307	2.307	(0.450)	1664	100.000	73.96
172	tert-Butyl formate	59	3.242	3.242	(0.632)	9734	10.0000	8.67
173	3,3-Dimethyl-1-butanol	57	8.075	8.075	(0.954)	8986	100.000	97.45
174	tert-Amyl methyl ether	73	5.577	5.577	(1.087)	17818	5.00000	4.68
175	tert-Butyl ethyl ether	59	4.374	4.374	(0.853)	17239	5.00000	4.53
157	2-Methylnaphthalene	142	13.345	13.345	(1.276)	3232	5.00000	5.47
156	Diisopropyl ether	45	3.950	3.950	(0.770)	19071	5.00000	4.61(T)
171	1-Methylnaphthalene	142	13.528	13.528	(1.294)	3073	5.00000	5.53
130	Ethyl Acetate	43	3.950	3.950	(0.770)	39063	5.00000	5.29(T)
176	tert-Amyl alcohol	59	5.512	5.512	(1.075)	11946	100.000	113.25(AM)
160	Epichlorohydrin	57	6.914	6.914	(1.181)	1450	20.0000	19.54
161	Butyl acrylate	55	8.998	8.998	(1.063)	13964	5.00000	4.95(a)
182	Isobutylene	56	1.953	1.953	(0.381)	831	5.00000	4.74(aAM)
183	Isopropyl Acetate	43	5.577	5.577	(0.953)	20180	5.00000	4.45(aA)
184	n-Amyl acetate	43	9.194	9.194	(1.086)	13889	5.00000	5.67(A)
185	Acetaldehyde	44	1.628	1.628	(0.317)	18333	20.0000	29.51(AM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\NAHSTMS005\Target\chem\voa7.i\P240612.b\P061206.D
Date : 12-JUN-2024 12:51
Client ID: VSTD005
Sample Info: VSTD005
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7.i
Operator: AP
Column diameter: 0.18

\\NAHSTMS005\Target\chem\voa7.i\P240612.b\P061206.D

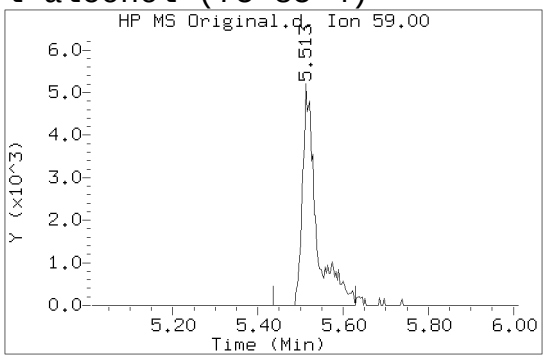
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061206.D
Inj Date : 12-JUN-2024 12:51
InstruID : voa7.i
LabSampID : VSTD005

tert-Amyl alcohol (75-85-4)

Reason Code:

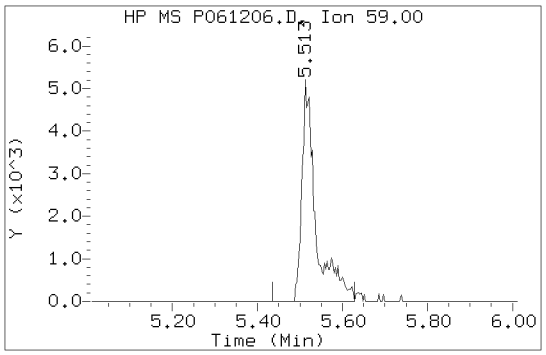
BEFORE

MASS
59
AREA
11946
HEIGHT
5209
22-Jun-2024
12:20
RUCHA
PATEL



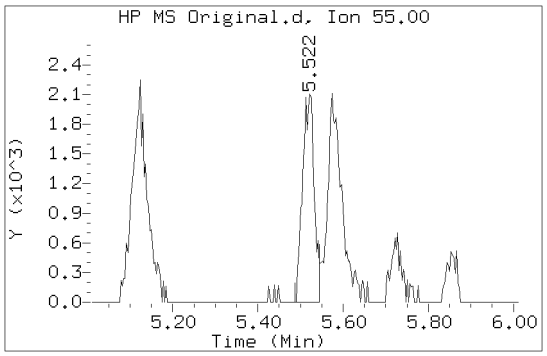
AFTER

MASS
59
AREA
11946
HEIGHT
5209
22-Jun-2024
12:20
RUCHA
PATEL



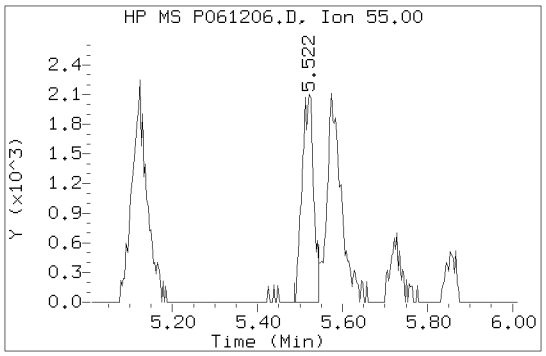
BEFORE

MASS
55
AREA
3993
HEIGHT
2107
22-Jun-2024
12:20
RUCHA
PATEL



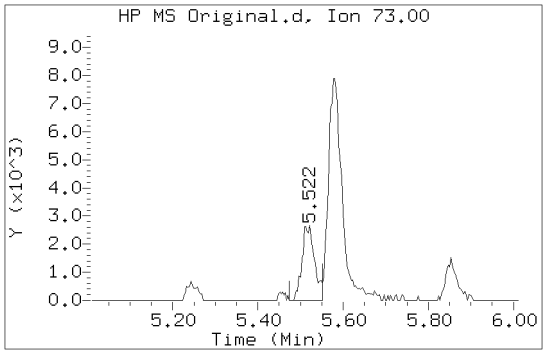
AFTER

MASS
55
AREA
3993
HEIGHT
2107
22-Jun-2024
12:20
RUCHA
PATEL



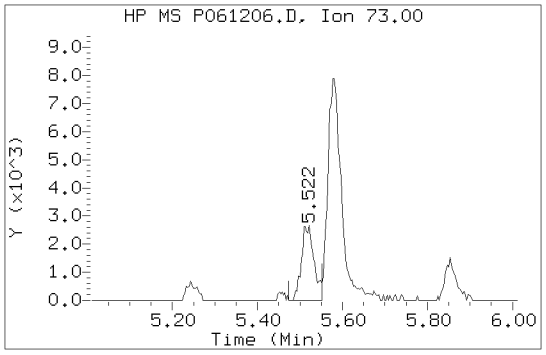
BEFORE

MASS
73
AREA
5481
HEIGHT
2669
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
73
AREA
5481
HEIGHT
2669
22-Jun-2024
12:20
RUCHA
PATEL

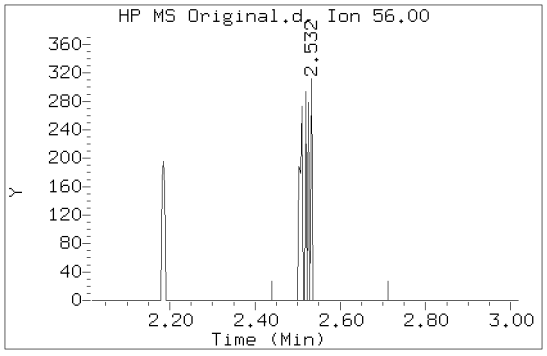


Acrolein (107-02-8)

Reason Code:

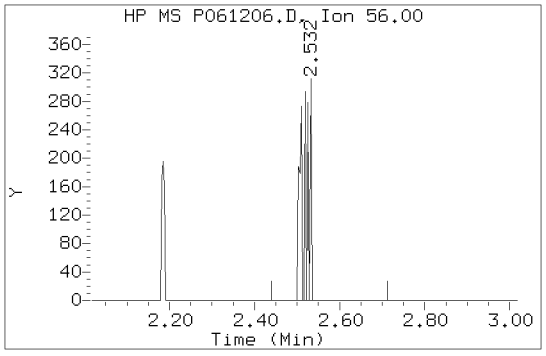
BEFORE

MASS
56
AREA
294
HEIGHT
312
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
56
AREA
294
HEIGHT
312
22-Jun-2024
12:20
RUCHA
PATEL



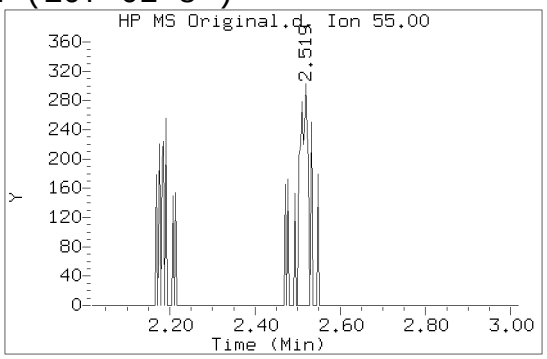
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061206.D
Inj Date : 12-JUN-2024 12:51
InstruID : voa7.i
LabSampID : VSTD005

Acrolein (107-02-8)

Reason Code:

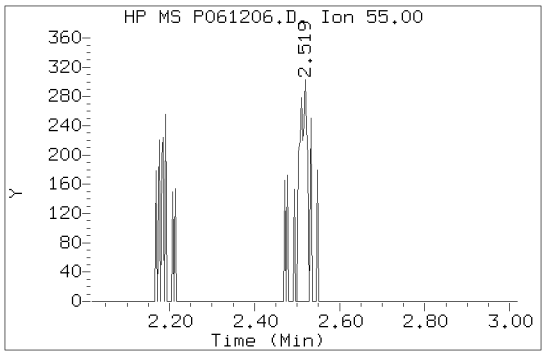
BEFORE

MASS
55
AREA
366
HEIGHT
303
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
55
AREA
366
HEIGHT
303
22-Jun-2024
12:20
RUCHA
PATEL

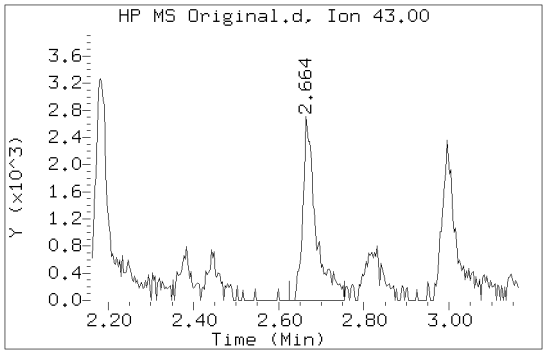


Acetone (67-64-1)

Reason Code:

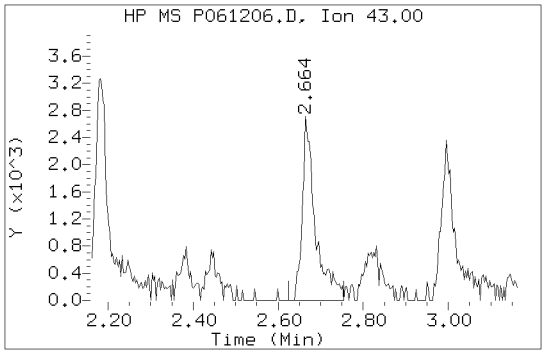
BEFORE

MASS
43
AREA
5792
HEIGHT
2708
22-Jun-2024
12:20
RUCHA
PATEL



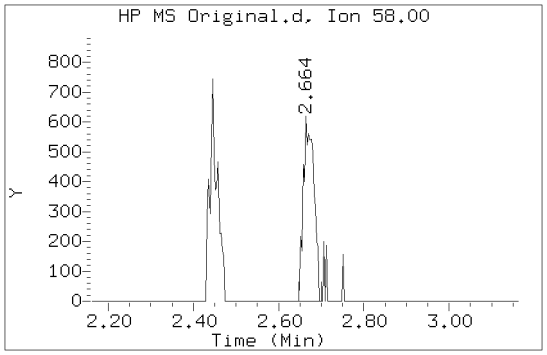
AFTER

MASS
43
AREA
5792
HEIGHT
2708
22-Jun-2024
12:20
RUCHA
PATEL



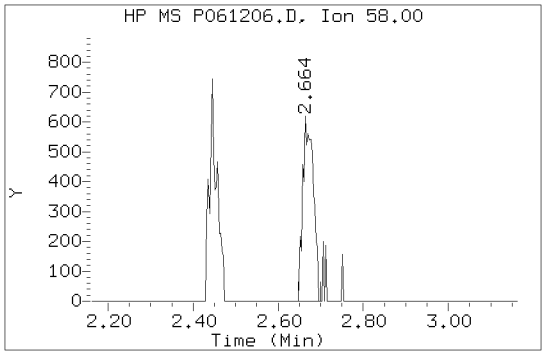
BEFORE

MASS
58
AREA
1075
HEIGHT
619
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
58
AREA
1075
HEIGHT
619
22-Jun-2024
12:20
RUCHA
PATEL

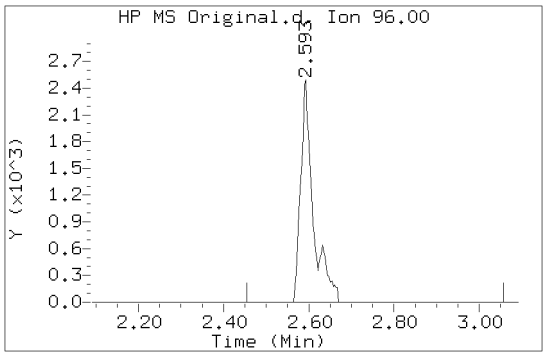


1,1-Dichloroethene (75-35-4)

Reason Code:

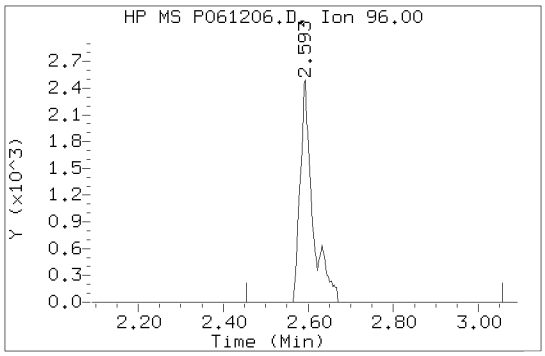
BEFORE

MASS
96
AREA
5121
HEIGHT
2492
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
96
AREA
5121
HEIGHT
2492
22-Jun-2024
12:20
RUCHA
PATEL



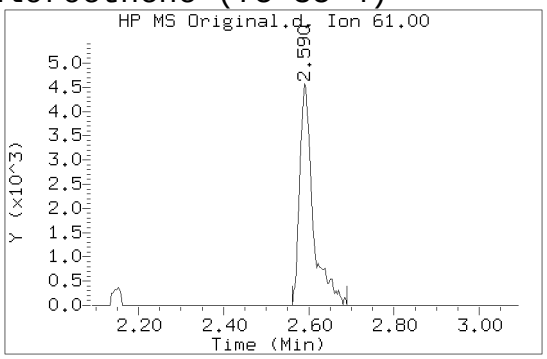
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061206.D
Inj Date : 12-JUN-2024 12:51
InstruID : voa7.i
LabSampID : VSTD005

1,1-Dichloroethene (75-35-4)

Reason Code:

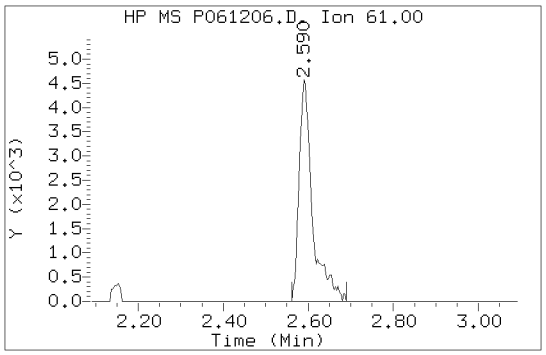
BEFORE

MASS
61
AREA
10087
HEIGHT
4574
22-Jun-2024
12:20
RUCHA
PATEL



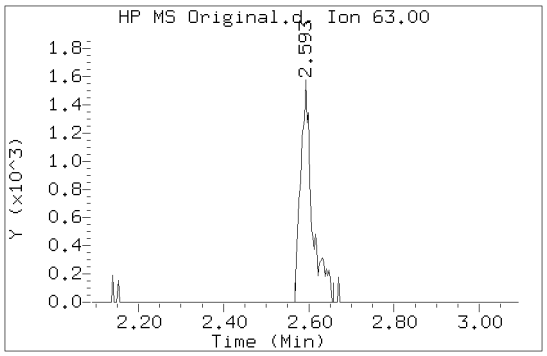
AFTER

MASS
61
AREA
10087
HEIGHT
4574
22-Jun-2024
12:20
RUCHA
PATEL



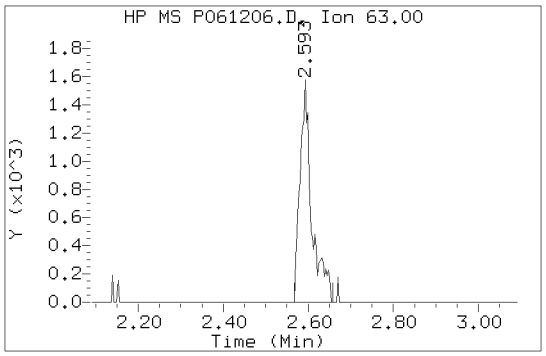
BEFORE

MASS
63
AREA
3031
HEIGHT
1577
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
63
AREA
3031
HEIGHT
1577
22-Jun-2024
12:20
RUCHA
PATEL

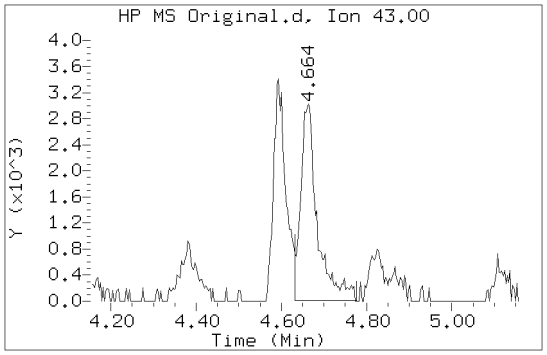


Vinyl Acetate (108-05-4)

Reason Code:

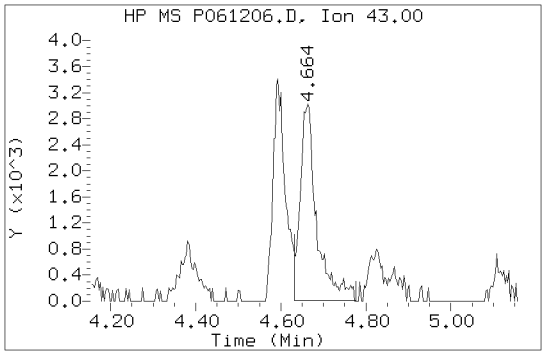
BEFORE

MASS
43
AREA
8177
HEIGHT
3015
22-Jun-2024
12:20
RUCHA
PATEL



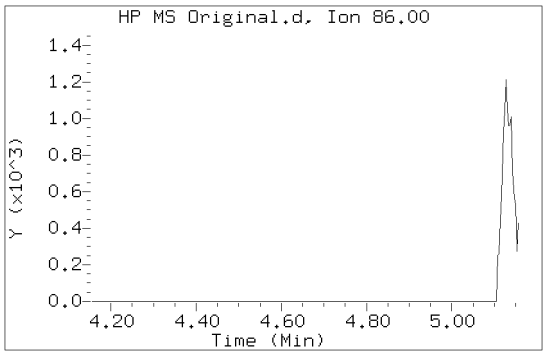
AFTER

MASS
43
AREA
8177
HEIGHT
3015
22-Jun-2024
12:20
RUCHA
PATEL



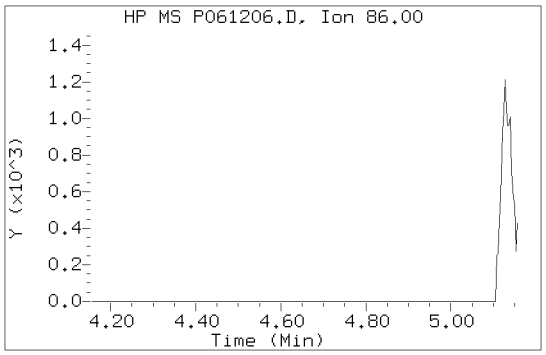
BEFORE

MASS
86
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
86
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL

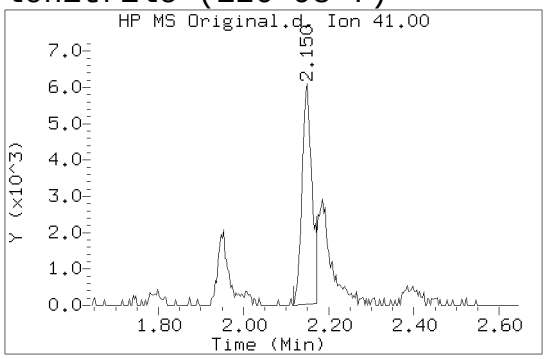


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061206.D
Inj Date : 12-JUN-2024 12:51
InstruID : voa7.i
LabSampID : VSTD005

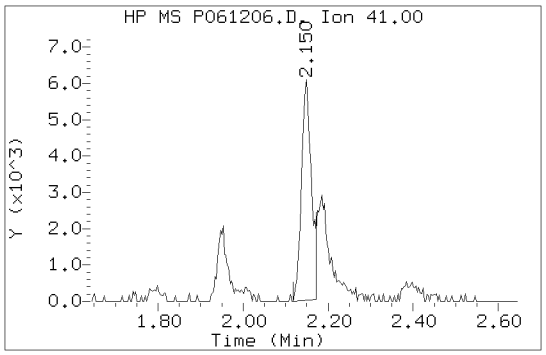
Methacrylonitrile (126-98-7)

Reason Code:

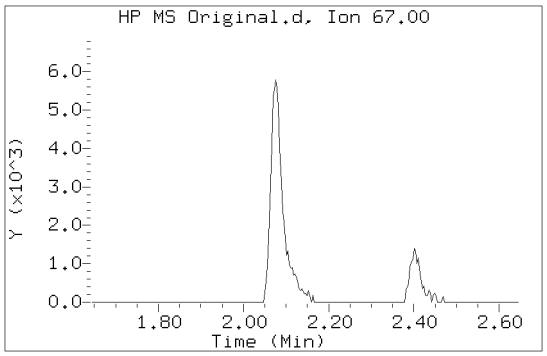
BEFORE
MASS
41
AREA
9929
HEIGHT
6069
22-Jun-2024
12:20
RUCHA
PATEL



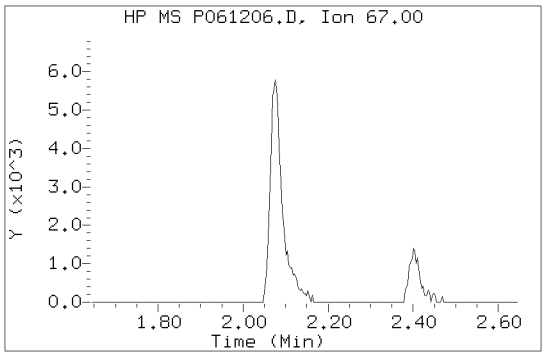
AFTER
MASS
41
AREA
9929
HEIGHT
6069
22-Jun-2024
12:20
RUCHA
PATEL



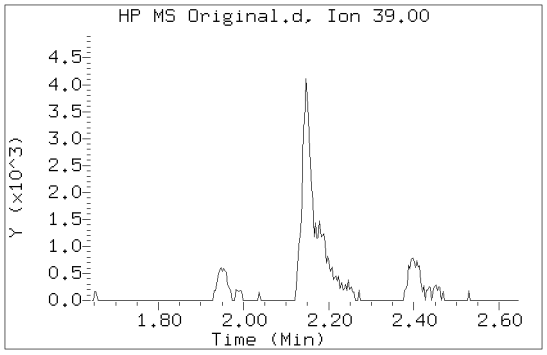
BEFORE
MASS
67
AREA
2166
HEIGHT
1338
22-Jun-2024
12:20
RUCHA
PATEL



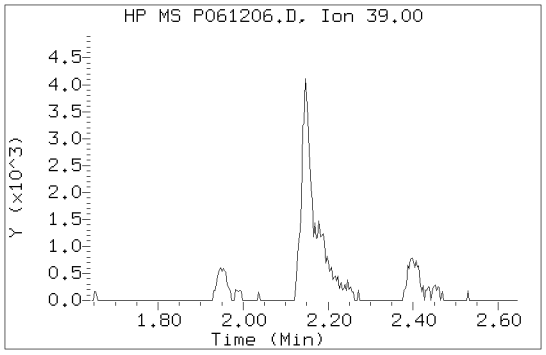
AFTER
MASS
67
AREA
2166
HEIGHT
1338
22-Jun-2024
12:20
RUCHA
PATEL



BEFORE
MASS
39
AREA
1270
HEIGHT
620
22-Jun-2024
12:20
RUCHA
PATEL



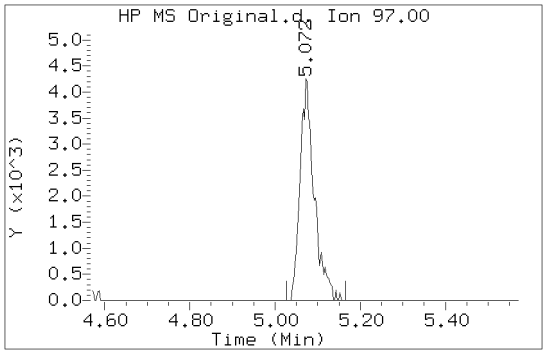
AFTER
MASS
39
AREA
1270
HEIGHT
620
22-Jun-2024
12:20
RUCHA
PATEL



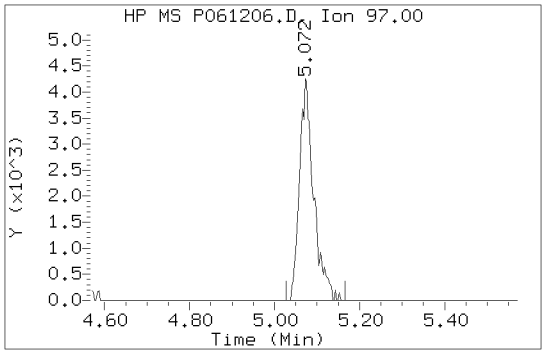
1,1,1-Trichloroethane (71-55-6)

Reason Code:

BEFORE
MASS
97
AREA
9862
HEIGHT
4256
22-Jun-2024
12:20
RUCHA
PATEL



AFTER
MASS
97
AREA
9862
HEIGHT
4256
22-Jun-2024
12:20
RUCHA
PATEL



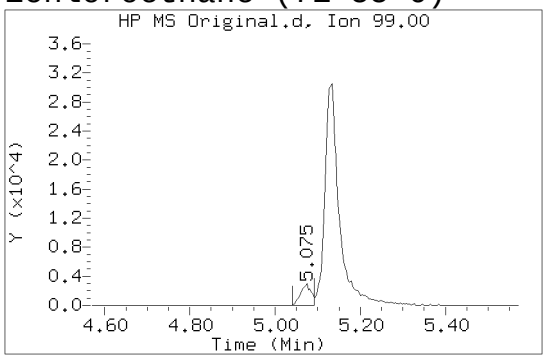
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061206.D
Inj Date : 12-JUN-2024 12:51
InstruID : voa7.i
LabSampID : VSTD005

1,1,1-Trichloroethane (71-55-6)

Reason Code:

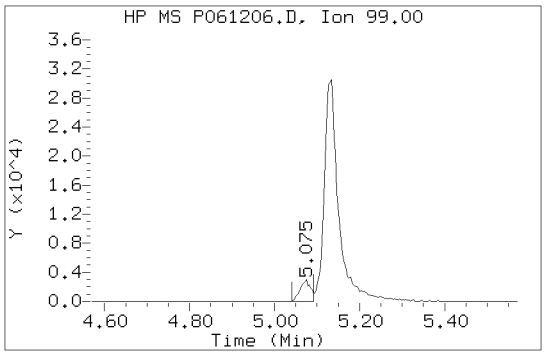
BEFORE

MASS
99
AREA
5072
HEIGHT
2976
22-Jun-2024
12:20
RUCHA
PATEL



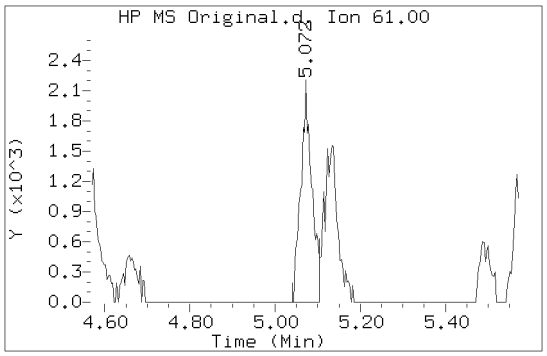
AFTER

MASS
99
AREA
5072
HEIGHT
2976
22-Jun-2024
12:20
RUCHA
PATEL



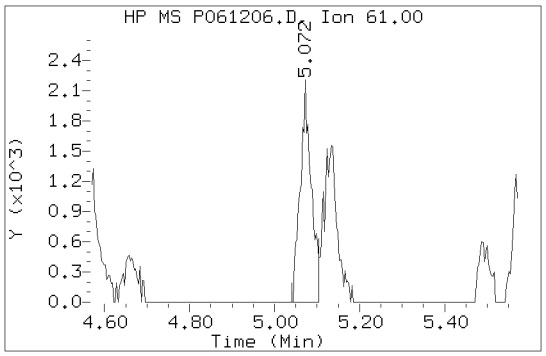
BEFORE

MASS
61
AREA
3995
HEIGHT
2207
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
61
AREA
3995
HEIGHT
2207
22-Jun-2024
12:20
RUCHA
PATEL

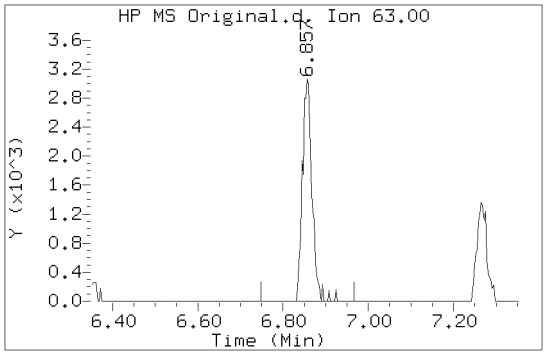


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

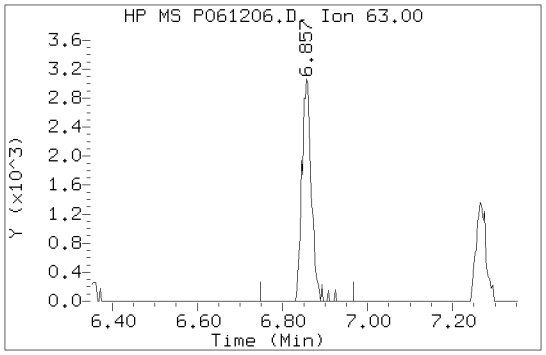
BEFORE

MASS
63
AREA
4830
HEIGHT
3064
22-Jun-2024
12:20
RUCHA
PATEL



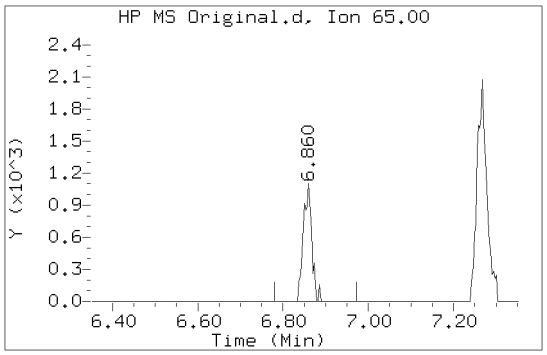
AFTER

MASS
63
AREA
4830
HEIGHT
3064
22-Jun-2024
12:20
RUCHA
PATEL



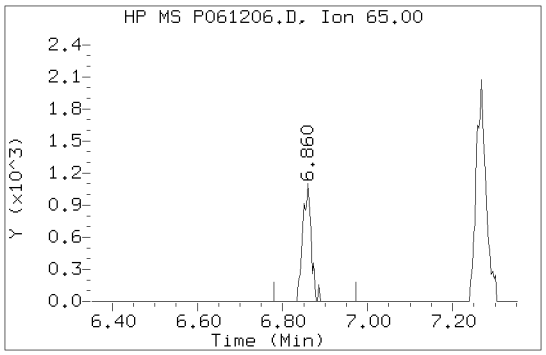
BEFORE

MASS
65
AREA
1513
HEIGHT
1104
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
65
AREA
1513
HEIGHT
1104
22-Jun-2024
12:20
RUCHA
PATEL



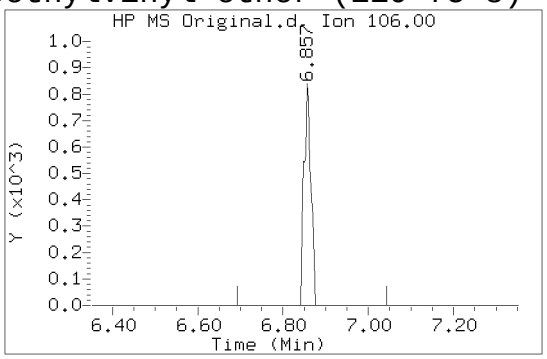
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061206.D
Inj Date : 12-JUN-2024 12:51
InstruID : voa7.i
LabSampID : VSTD005

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

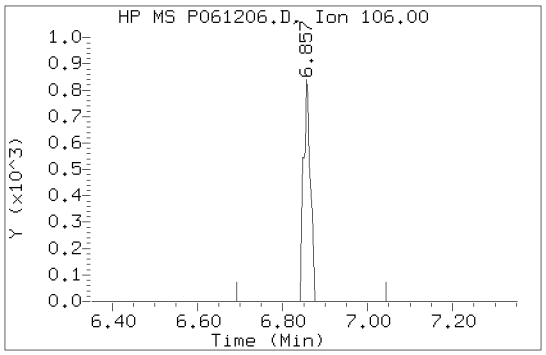
BEFORE

MASS
106
AREA
965
HEIGHT
840
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
106
AREA
965
HEIGHT
840
22-Jun-2024
12:20
RUCHA
PATEL

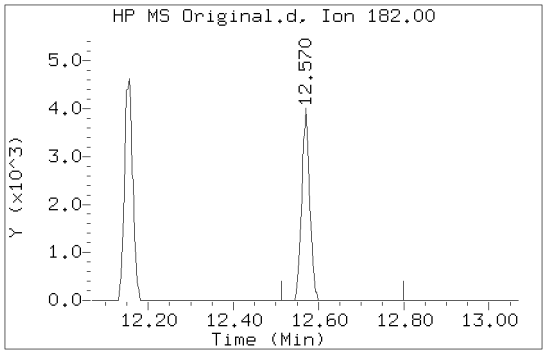


1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

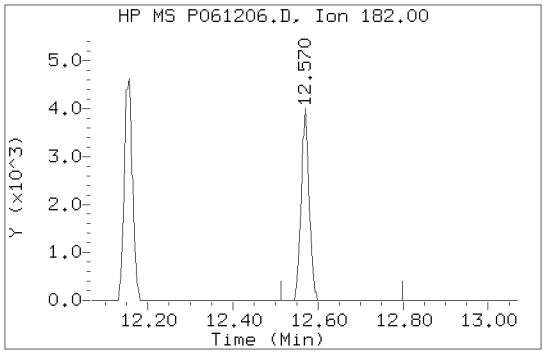
BEFORE

MASS
182
AREA
5273
HEIGHT
4017
22-Jun-2024
12:20
RUCHA
PATEL



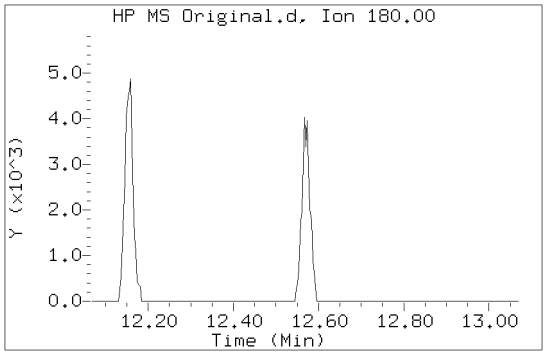
AFTER

MASS
182
AREA
5273
HEIGHT
4017
22-Jun-2024
12:20
RUCHA
PATEL



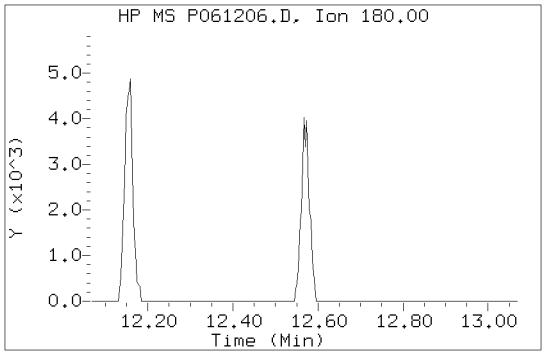
BEFORE

MASS
180
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



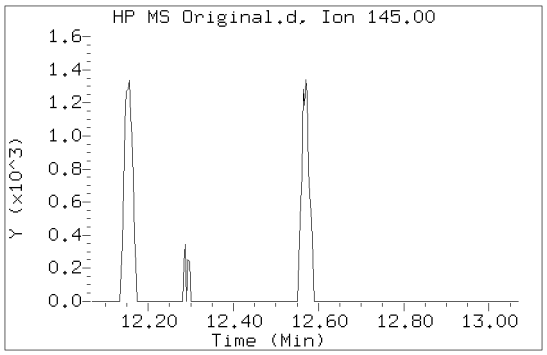
AFTER

MASS
180
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



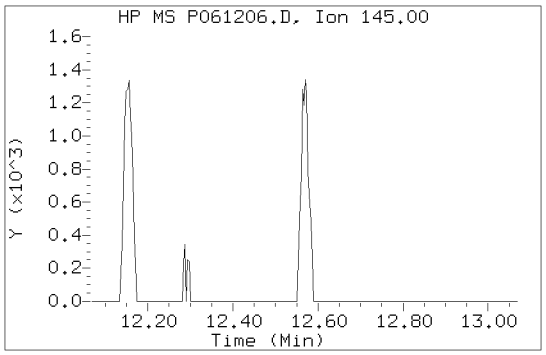
BEFORE

MASS
145
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
145
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL

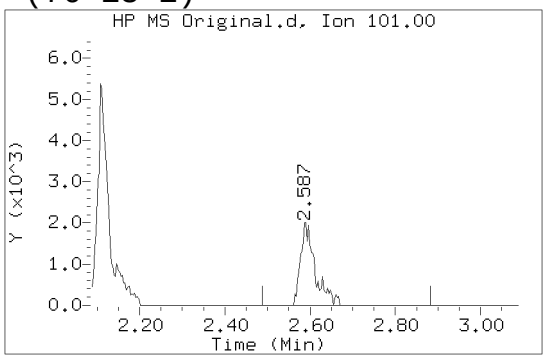


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061206.D
Inj Date : 12-JUN-2024 12:51
InstruID : voa7.i
LabSampID : VSTD005

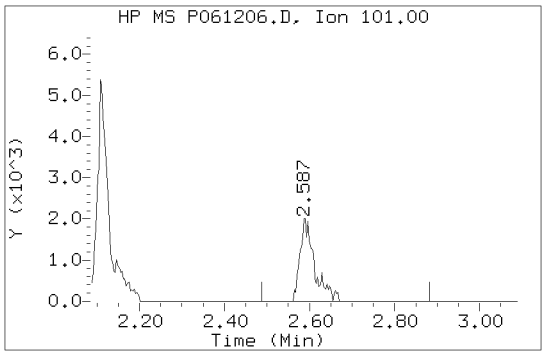
Freon TF (76-13-1)

Reason Code:

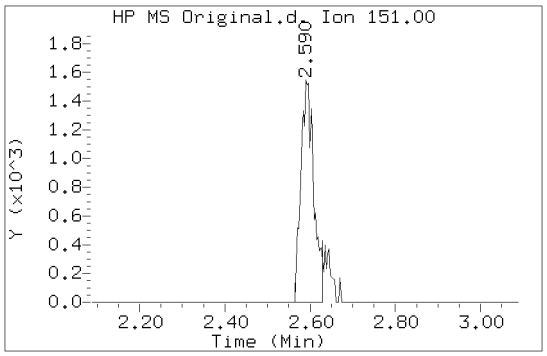
BEFORE
MASS
101
AREA
4806
HEIGHT
2010
22-Jun-2024
12:20
RUCHA
PATEL



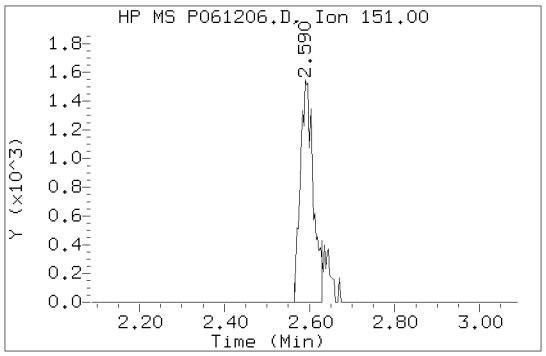
AFTER
MASS
101
AREA
4806
HEIGHT
2010
22-Jun-2024
12:20
RUCHA
PATEL



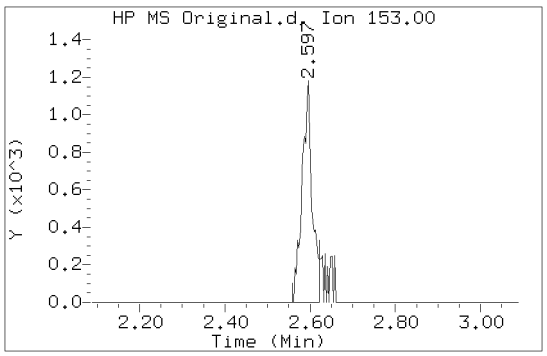
BEFORE
MASS
151
AREA
3258
HEIGHT
1547
22-Jun-2024
12:20
RUCHA
PATEL



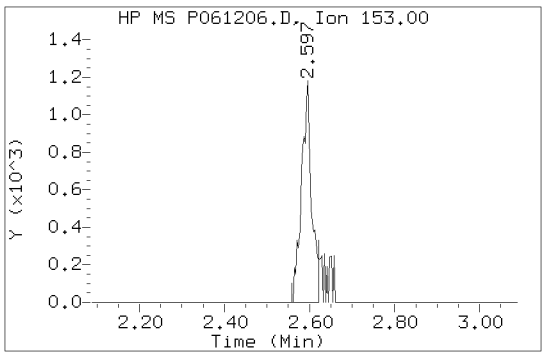
AFTER
MASS
151
AREA
3258
HEIGHT
1547
22-Jun-2024
12:20
RUCHA
PATEL



BEFORE
MASS
153
AREA
1972
HEIGHT
1182
22-Jun-2024
12:20
RUCHA
PATEL



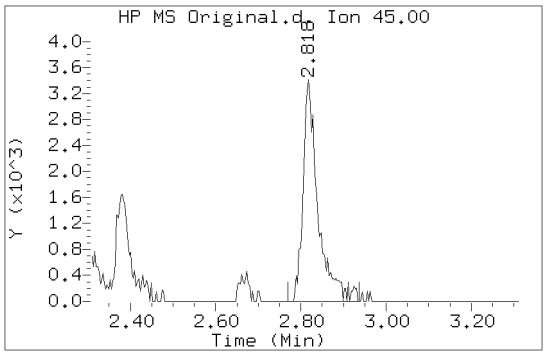
AFTER
MASS
153
AREA
1972
HEIGHT
1182
22-Jun-2024
12:20
RUCHA
PATEL



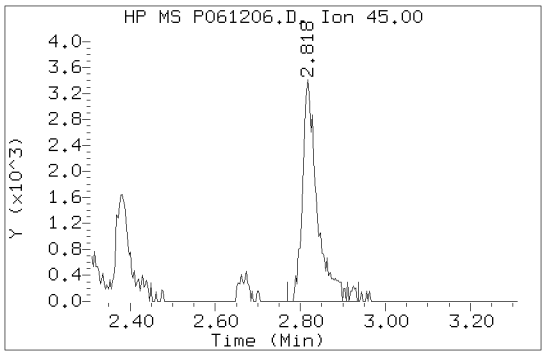
Isopropyl alcohol (67-63-0)

Reason Code:

BEFORE
MASS
45
AREA
8371
HEIGHT
3413
22-Jun-2024
12:20
RUCHA
PATEL



AFTER
MASS
45
AREA
8371
HEIGHT
3413
22-Jun-2024
12:20
RUCHA
PATEL



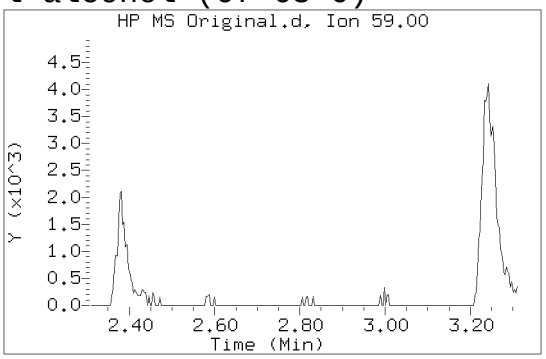
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061206.D
Inj Date : 12-JUN-2024 12:51
InstruID : voa7.i
LabSampID : VSTD005

Isopropyl alcohol (67-63-0)

Reason Code:

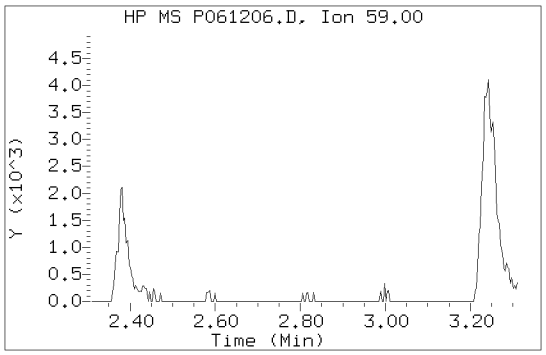
BEFORE

MASS
59
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
59
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL

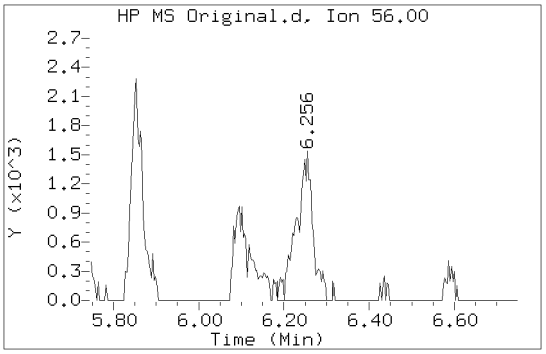


n-Butanol (71-36-3)

Reason Code:

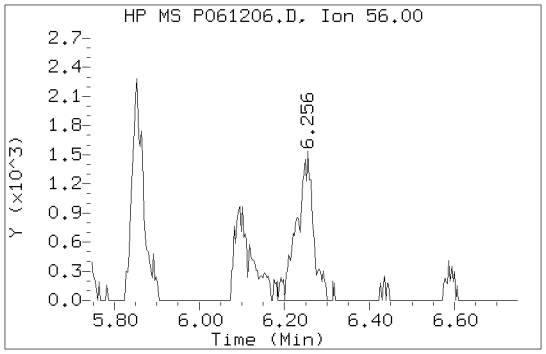
BEFORE

MASS
56
AREA
4168
HEIGHT
1536
22-Jun-2024
12:20
RUCHA
PATEL



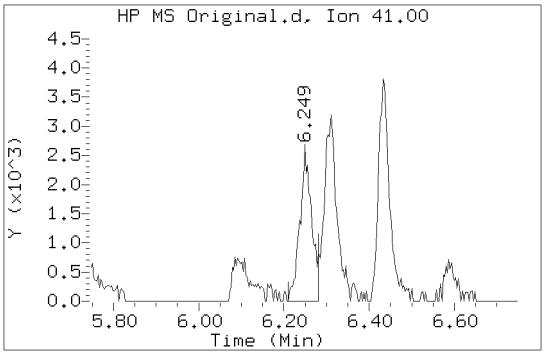
AFTER

MASS
56
AREA
4168
HEIGHT
1536
22-Jun-2024
12:20
RUCHA
PATEL



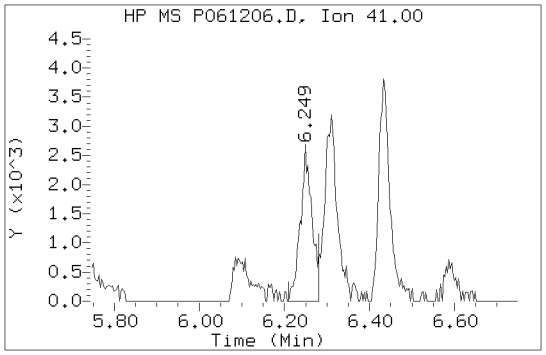
BEFORE

MASS
41
AREA
5132
HEIGHT
2693
22-Jun-2024
12:20
RUCHA
PATEL



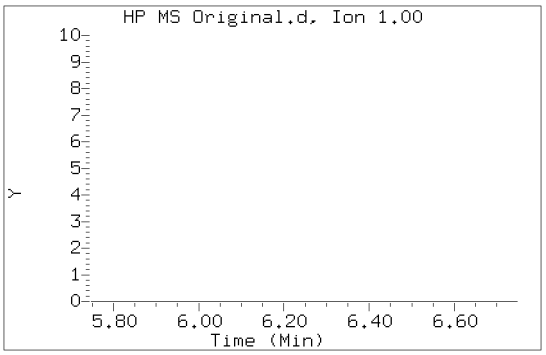
AFTER

MASS
41
AREA
5132
HEIGHT
2693
22-Jun-2024
12:20
RUCHA
PATEL



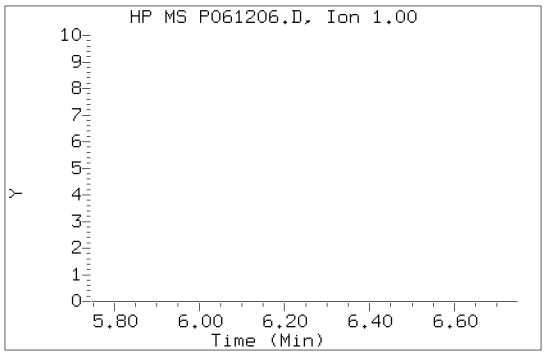
BEFORE

MASS
1
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
1
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL

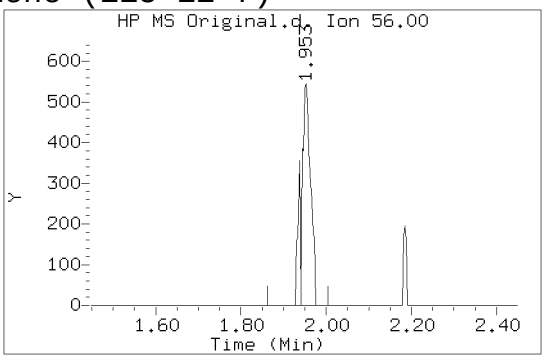


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061206.D
Inj Date : 12-JUN-2024 12:51
InstruID : voa7.i
LabSampID : VSTD005

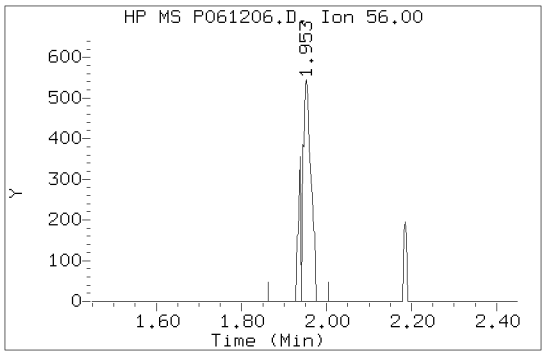
Isobutylene (115-11-7)

Reason Code:

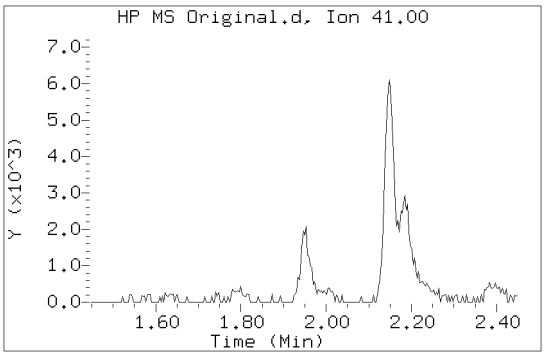
BEFORE
MASS
56
AREA
831
HEIGHT
545
22-Jun-2024
12:20
RUCHA
PATEL



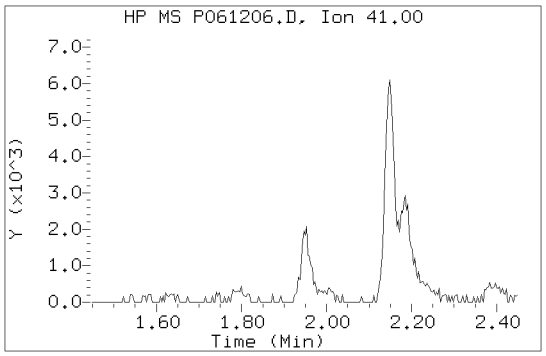
AFTER
MASS
56
AREA
831
HEIGHT
545
22-Jun-2024
12:20
RUCHA
PATEL



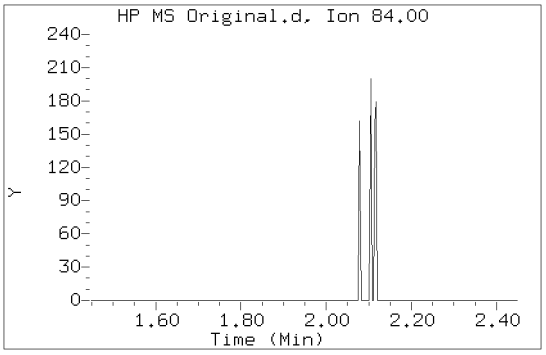
BEFORE
MASS
41
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



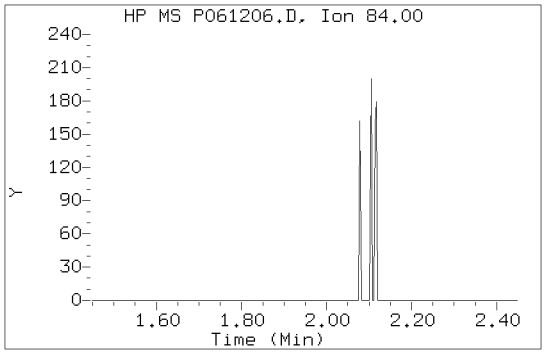
AFTER
MASS
41
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



BEFORE
MASS
84
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



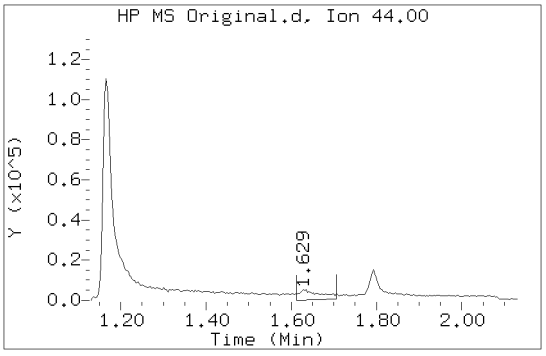
AFTER
MASS
84
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



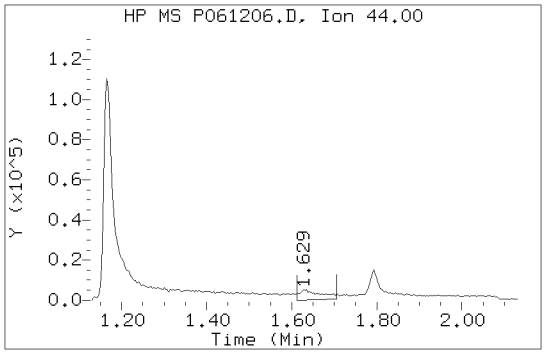
Acetaldehyde (75-07-0)

Reason Code:

BEFORE
MASS
44
AREA
18333
HEIGHT
5377
22-Jun-2024
12:20
RUCHA
PATEL



AFTER
MASS
44
AREA
18333
HEIGHT
5377
22-Jun-2024
12:20
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061207.D Page 1
Report Date: 22-Jun-2024 12:21

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061207.D
Lab Smp Id: VSTD010 Client Smp ID: VSTD010
Inj Date : 12-JUN-2024 13:14
Operator : AP Inst ID: voa7.i
Smp Info : VSTD010
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240612.b\8260W.m
Meth Date : 22-Jun-2024 12:21 voa7.i Quant Type: ISTD
Cal Date : 12-JUN-2024 12:51 Cal File: P061206.D
Als bottle: 10 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	5.133	5.133	(1.000)	122760	50.0000	
2	Dichlorodifluoromethane	85	1.294	1.294	(0.252)	13733	10.0000	10.70
159	Dichlorofluoromethane	67	2.075	2.075	(0.404)	23165	10.0000	9.13
3	Chloromethane	50	1.451	1.451	(0.283)	20504	10.0000	10.09
4	Propionitrile	54	4.670	4.670	(0.910)	16213	100.000	95.45
5	Vinyl Chloride	62	1.535	1.535	(0.299)	17554	10.0000	10.28
6	Bromomethane	94	1.805	1.805	(0.352)	11794	10.0000	9.73
7	Chloroethane	64	1.895	1.895	(0.369)	11009	10.0000	10.45
8	Trichlorofluoromethane	101	2.113	2.113	(0.412)	22220	10.0000	10.13
9	Acrolein	56	2.515	2.515	(0.490)	688	20.0000	17.33
10	Acetone	43	2.666	2.666	(0.520)	10759	20.0000	21.13(M)
11	1,1-Dichloroethene	96	2.593	2.593	(0.505)	12169	10.0000	10.28(M)
12	Isobutyl Alcohol	43	5.573	5.573	(1.086)	39559	200.000	191.26
13	Acetonitrile	39	2.962	2.962	(0.577)	17600	100.000	99.76
14	Allyl Chloride	41	2.959	2.959	(0.577)	34793	10.0000	9.10
15	Iodomethane	142	2.740	2.740	(0.534)	10595	20.0000	16.44
16	Acrylonitrile	53	3.380	3.380	(0.659)	7540	20.0000	17.90
17	Methylene Chloride	84	3.097	3.097	(0.604)	15055	10.0000	9.63
18	Methyl tert-butyl ether	73	3.380	3.380	(0.659)	28475	10.0000	9.54
19	Carbon Disulfide	76	2.795	2.795	(0.545)	78771	20.0000	20.66

20	trans-1,2-Dichloroethene	96	3.374	3.374 (0.657)	12292	10.0000	9.35
21	Vinyl Acetate	43	4.660	4.660 (0.908)	15657	20.0000	21.69

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061207.D Page 2
Report Date: 22-Jun-2024 12:21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
22	1,1-Dichloroethane	63	3.866	3.866	(0.753)	26028	10.0000	9.73
23	Chloroprene	53	3.965	3.965	(0.773)	21867	10.0000	9.49
24	2-Butanone	43	4.592	4.592	(0.895)	12394	20.0000	20.01
25	Methacrylonitrile	41	2.146	2.146	(0.418)	19313	10.0000	10.55(M)
26	2,2-Dichloropropane	77	4.535	4.535	(0.883)	21711	10.0000	9.83
27	cis-1,2-Dichloroethene	96	4.544	4.544	(0.885)	14273	10.0000	9.80
28	Chloroform	83	4.901	4.901	(0.955)	25405	10.0000	9.52
29	Bromochloromethane	128	4.808	4.808	(0.937)	6945	10.0000	9.48
$ 30	Dibromofluoromethane	113	5.072	5.072	(0.988)	13222	10.0000	9.70
31	1,1,1-Trichloroethane	97	5.072	5.072	(0.988)	22027	10.0000	9.94
32	1,1-Dichloropropene	75	5.242	5.242	(0.896)	18899	10.0000	9.57
33	1,2-Dichloroethane	62	5.490	5.490	(0.938)	22027	10.0000	9.59
34	Carbon Tetrachloride	117	5.236	5.236	(0.895)	19330	10.0000	9.90
$ 35	1,2-Dichloroethane-d4	65	5.416	5.416	(1.055)	18104	10.0000	9.86
* 36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	203501	50.0000	
37	Benzene	78	5.461	5.461	(0.933)	54343	10.0000	9.83
38	Trichloroethene	130	6.088	6.088	(1.040)	13898	10.0000	9.81
39	Bromodichloromethane	83	6.573	6.573	(1.123)	19931	10.0000	9.73
40	Methyl Methacrylate	41	6.435	6.435	(1.254)	13358	10.0000	9.51
41	2-Chloroethylvinyl ether	63	6.856	6.856	(1.171)	10150	20.0000	18.67(M)
42	1,2-Dichloropropane	63	6.313	6.313	(1.079)	15568	10.0000	9.84
43	2-Nitropropane	43	6.798	6.798	(1.324)	3921	10.0000	9.63
44	Dibromomethane	93	6.419	6.419	(1.097)	8549	10.0000	9.53
45	4-Methyl-2-Pentanone	43	7.126	7.126	(0.842)	28349	20.0000	18.59
46	cis-1,3-Dichloropropene	75	6.978	6.978	(1.192)	20669	10.0000	9.65
* 47	Chlorobenzene-d5	117	8.467	8.467	(1.000)	190162	50.0000	
$ 48	Toluene-d8	98	7.207	7.207	(0.851)	50368	10.0000	9.58
49	Ethyl Methacrylate	69	8.042	8.042	(1.374)	12386	10.0000	9.82
50	Toluene	91	7.264	7.264	(0.858)	56631	10.0000	9.48
51	trans-1,3-Dichloropropene	75	6.978	6.978	(1.192)	20669	10.0000	9.65
52	2-Hexanone	43	7.862	7.862	(0.929)	19605	20.0000	18.72
53	1,1,2-Trichloroethane	83	7.641	7.641	(0.902)	10863	10.0000	9.17
54	1,3-Dichloropropane	76	7.782	7.782	(0.919)	22865	10.0000	9.37
55	Dibromochloromethane	129	7.978	7.978	(0.942)	14217	10.0000	9.27
56	Tetrachloroethene	164	7.737	7.737	(0.914)	10566	10.0000	9.40
57	1,2-Dibromoethane	107	8.075	8.075	(0.954)	11071	10.0000	9.94
58	1-Chlorohexane	55	8.467	8.467	(1.447)	15803	10.0000	10.28
59	Chlorobenzene	112	8.493	8.493	(1.003)	37090	10.0000	9.54
60	1,1,1,2-Tetrachloroethane	131	8.563	8.563	(1.011)	12805	10.0000	9.36
61	Ethylbenzene	106	8.583	8.583	(1.014)	18857	10.0000	9.60
62	m,p-Xylenes	106	8.682	8.682	(1.025)	48175	20.0000	19.31
63	o-Xylene	106	9.023	9.023	(1.066)	23155	10.0000	9.57
64	Styrene	104	9.039	9.039	(1.068)	37663	10.0000	9.47
66	Bromoform	173	9.203	9.203	(1.087)	8762	10.0000	9.32(T)
67	Isopropylbenzene	105	9.338	9.338	(1.103)	59794	10.0000	9.88
68	1,1,2,2-Tetrachloroethane	83	9.608	9.608	(0.919)	16494	10.0000	9.20
$ 69	4-Bromofluorobenzene	95	9.477	9.477	(1.119)	20440	10.0000	9.29
* 70	1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	91786	50.0000	
71	1,2,3-Trichloropropane	75	9.647	9.647	(0.923)	17513	10.0000	8.95
72	trans-1,4-Dichloro-2-butene	53	9.657	9.657	(1.140)	3844	10.0000	10.00
73	n-Propylbenzene	91	9.692	9.692	(0.927)	69205	10.0000	9.59
74	Bromobenzene	156	9.605	9.605	(0.919)	15846	10.0000	9.62

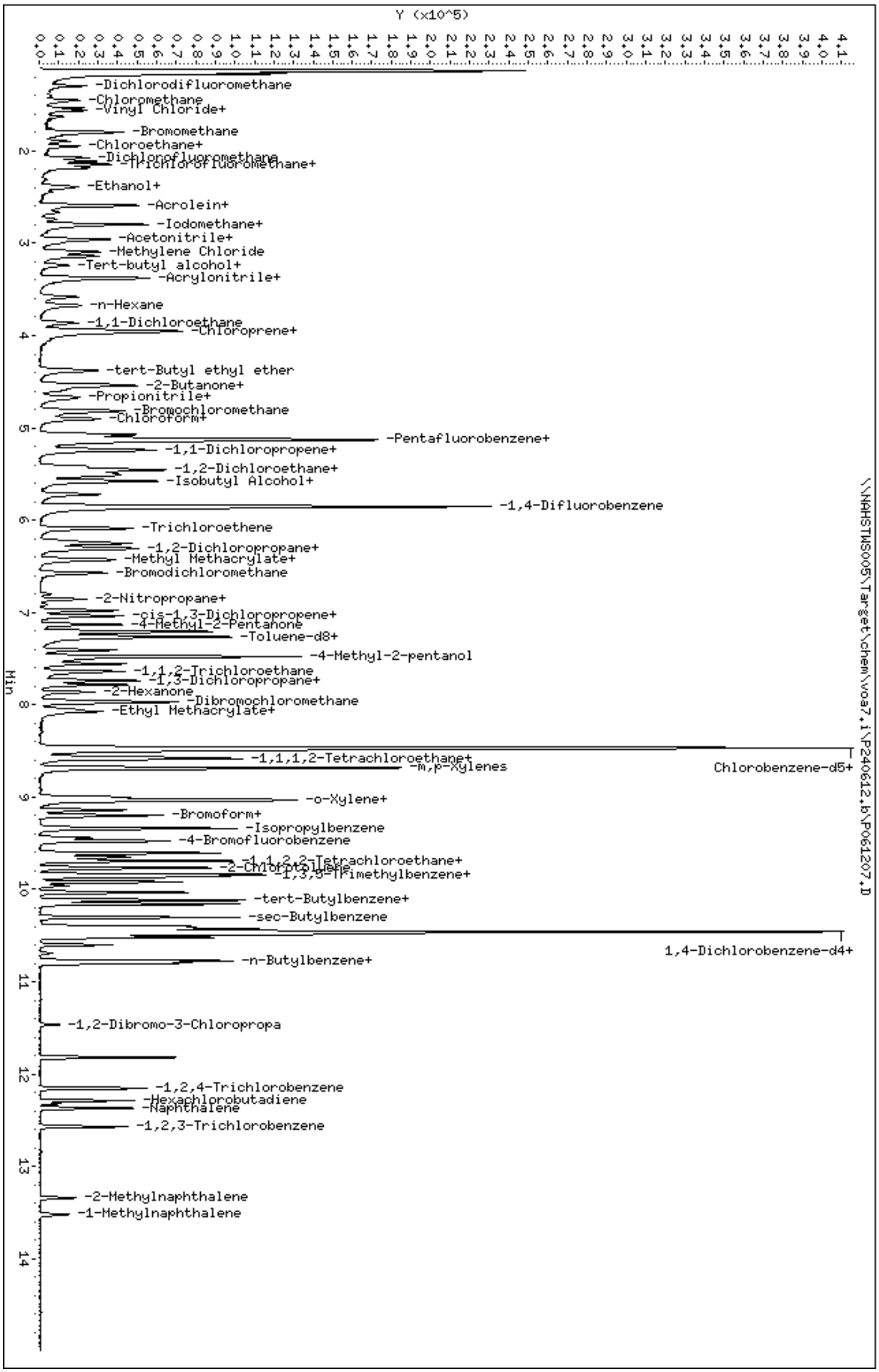
75	1,3,5-Trimethylbenzene	105	9.840	9.840 (0.941)	48385	10.0000	9.74
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	43088	10.0000	9.46

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
77	4-Chlorotoluene	91	9.859	9.859	(0.943)	50748	10.0000	9.54
78	tert-Butylbenzene	119	10.116	10.116	(0.967)	42861	10.0000	10.01
79	1,2,4-Trimethylbenzene	105	10.158	10.158	(0.971)	48879	10.0000	9.57
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	57424	10.0000	9.75
82	p-Isopropyltoluene	119	10.425	10.425	(0.997)	48864	10.0000	9.34
83	1,3-Dichlorobenzene	146	10.403	10.403	(0.995)	26990	10.0000	9.35
84	1,4-Dichlorobenzene	146	10.480	10.480	(1.002)	29125	10.0000	9.72
87	n-Butylbenzene	91	10.772	10.772	(1.030)	45236	10.0000	9.54
88	1,2-Dichlorobenzene	146	10.798	10.798	(1.033)	25590	10.0000	9.07
89	1,2-Dibromo-3-Chloropropane	75	11.464	11.464	(1.096)	2476	10.0000	9.10
90	1,2,4-Trichlorobenzene	180	12.158	12.158	(1.163)	14853	10.0000	9.21
91	Hexachlorobutadiene	225	12.290	12.290	(1.175)	7652	10.0000	10.25
92	Naphthalene	128	12.370	12.370	(1.183)	31957	10.0000	8.88
93	1,2,3-Trichlorobenzene	182	12.566	12.566	(1.202)	11945	10.0000	9.47(M)
146	Methyl acetate	43	2.994	2.994	(0.583)	10260	10.0000	9.93
138	Freon TF	101	2.593	2.593	(0.505)	12429	10.0000	10.35
139	Diethyl ether	59	2.380	2.380	(0.464)	7639	10.0000	9.48(M)
140	1,3-Butadiene	54	1.564	1.564	(0.305)	7078	10.0000	10.02(M)
141	Cyclohexane	56	5.110	5.110	(0.996)	21416	10.0000	10.36
147	Methylcyclohexane	83	6.252	6.252	(1.068)	17217	10.0000	9.50
132	n-Butanol	56	6.255	6.255	(1.219)	8353	200.000	203.47(TM)
131	Methyl Acrylate	55	4.695	4.695	(0.915)	12697	10.0000	9.23
133	Ethyl Acrylate	55	6.223	6.223	(1.212)	32833	10.0000	9.44
136	n-Hexane	57	3.670	3.670	(0.715)	13421	10.0000	10.35
142	Tetrahydrofuran	42	4.866	4.866	(0.948)	3784	20.0000	17.93
148	Tert-butyl alcohol	59	3.239	3.239	(0.631)	18548	200.000	199.89
149	Isopropyl alcohol	45	2.818	2.818	(0.549)	15178	200.000	192.88
151	4-Methyl-2-pentanol	45	7.477	7.477	(0.883)	80928	200.000	214.48
166	1,2,3-Trimethylbenzene	105	10.518	10.518	(1.006)	41781	10.0000	8.88
167	Ethanol	45	2.310	2.310	(0.450)	3235	200.000	204.15
172	tert-Butyl formate	59	3.239	3.239	(0.631)	18548	20.0000	19.89
173	3,3-Dimethyl-1-butanol	57	8.052	8.052	(0.951)	18947	200.000	207.13
174	tert-Amyl methyl ether	73	5.580	5.580	(1.087)	33756	10.0000	9.58
175	tert-Butyl ethyl ether	59	4.380	4.380	(0.853)	33998	10.0000	9.23
157	2-Methylnaphthalene	142	13.341	13.341	(1.276)	8422	10.0000	8.89
156	Diisopropyl ether	45	3.949	3.949	(0.769)	39998	10.0000	9.25(T)
171	1-Methylnaphthalene	142	13.525	13.525	(1.293)	7742	10.0000	9.33
130	Ethyl Acetate	43	3.949	3.949	(0.769)	76520	10.0000	9.67(T)
176	tert-Amyl alcohol	59	5.515	5.515	(1.075)	22327	200.000	242.11(AM)
160	Epichlorohydrin	57	6.917	6.917	(1.182)	2913	40.0000	38.66
161	Butyl acrylate	55	8.997	8.997	(1.063)	26791	10.0000	8.87
182	Isobutylene	56	1.946	1.946	(0.379)	1565	10.0000	8.67(AM)
183	Isopropyl Acetate	43	5.573	5.573	(0.952)	39559	10.0000	9.34(A)
184	n-Amyl acetate	43	9.194	9.194	(1.086)	26666	10.0000	9.69(A)
185	Acetaldehyde	44	1.628	1.628	(0.317)	27449	40.0000	59.55(AM)

QC Flag Legend

T - Target compound detected outside RT window.
A - Target compound detected but, quantitated amount exceeded maximum amount.

M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061207.D
Date : 12-JUN-2024 13:14
Client ID: VSTD010
Sample Info: VSTD010
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7.i
Operator: AP
Column diameter: 0.18

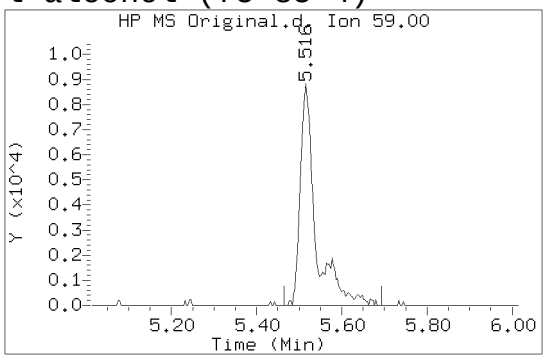
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061207.D
Inj Date : 12-JUN-2024 13:14
InstruID : voa7.i
LabSampID : VSTD010

tert-Amyl alcohol (75-85-4)

Reason Code:

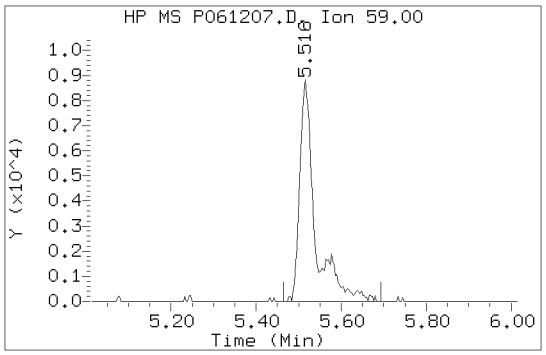
BEFORE

MASS
59
AREA
22327
HEIGHT
8831
22-Jun-2024
12:20
RUCHA
PATEL



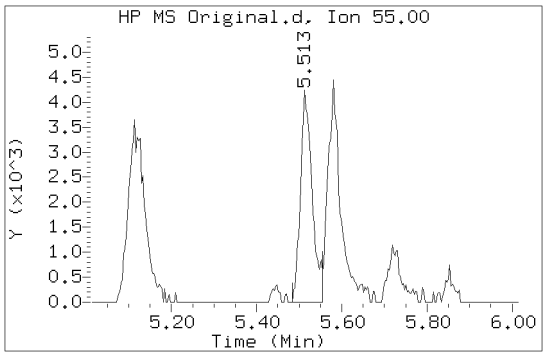
AFTER

MASS
59
AREA
22327
HEIGHT
8831
22-Jun-2024
12:20
RUCHA
PATEL



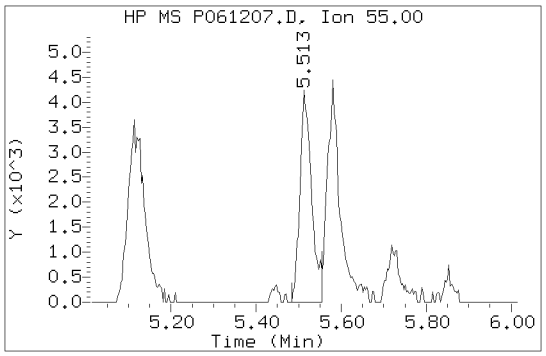
BEFORE

MASS
55
AREA
8126
HEIGHT
4241
22-Jun-2024
12:20
RUCHA
PATEL



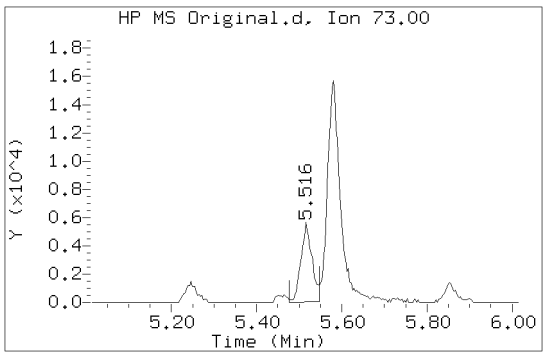
AFTER

MASS
55
AREA
8126
HEIGHT
4241
22-Jun-2024
12:20
RUCHA
PATEL



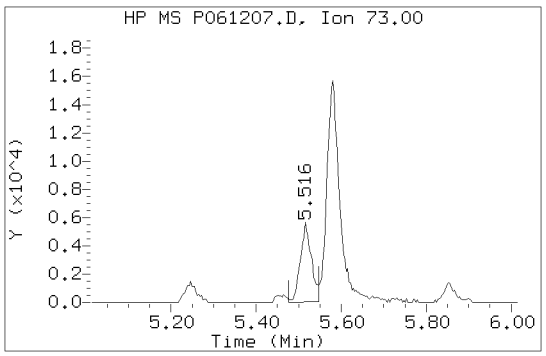
BEFORE

MASS
73
AREA
10149
HEIGHT
5612
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
73
AREA
10149
HEIGHT
5612
22-Jun-2024
12:20
RUCHA
PATEL

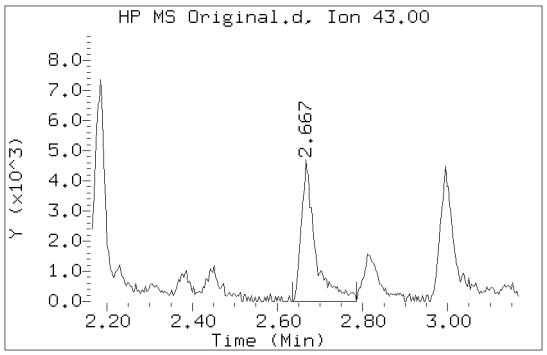


Acetone (67-64-1)

Reason Code:

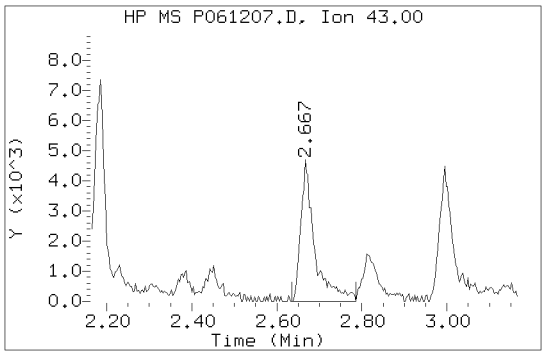
BEFORE

MASS
43
AREA
10759
HEIGHT
4704
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
43
AREA
10759
HEIGHT
4704
22-Jun-2024
12:20
RUCHA
PATEL



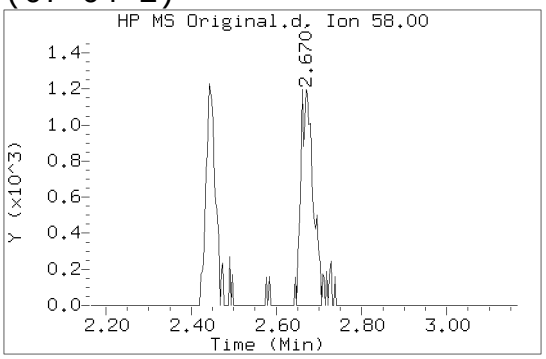
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061207.D
Inj Date : 12-JUN-2024 13:14
InstruID : voa7.i
LabSampID : VSTD010

Acetone (67-64-1)

Reason Code:

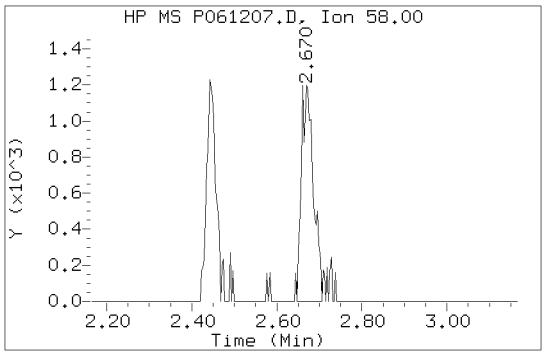
BEFORE

MASS
58
AREA
2348
HEIGHT
1198
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
58
AREA
2348
HEIGHT
1198
22-Jun-2024
12:20
RUCHA
PATEL

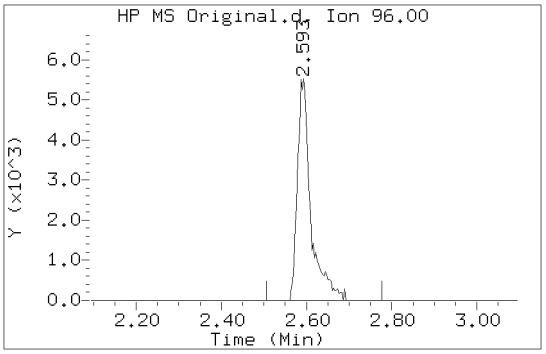


1,1-Dichloroethene (75-35-4)

Reason Code:

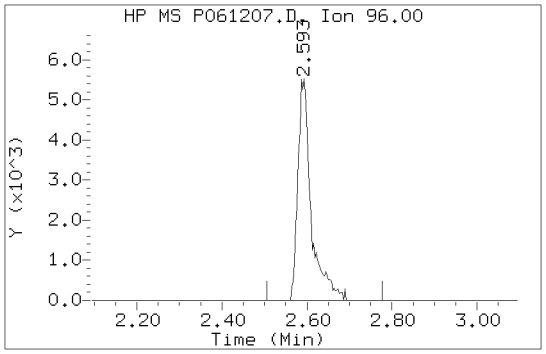
BEFORE

MASS
96
AREA
12169
HEIGHT
5531
22-Jun-2024
12:20
RUCHA
PATEL



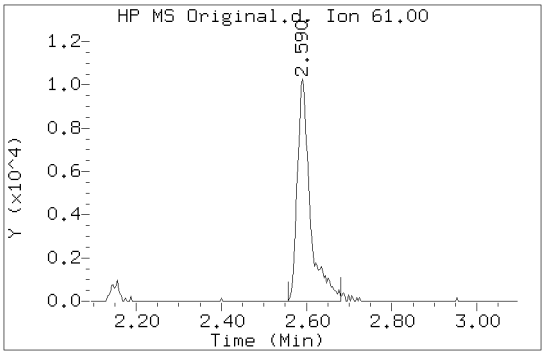
AFTER

MASS
96
AREA
12169
HEIGHT
5531
22-Jun-2024
12:20
RUCHA
PATEL



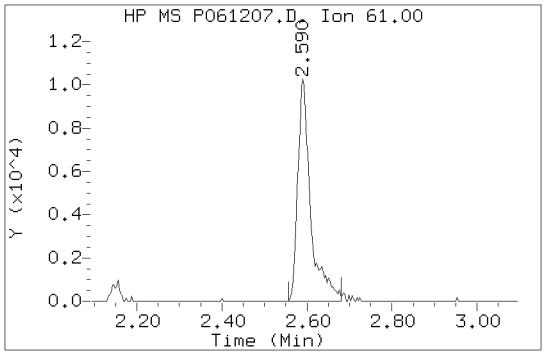
BEFORE

MASS
61
AREA
21848
HEIGHT
10276
22-Jun-2024
12:20
RUCHA
PATEL



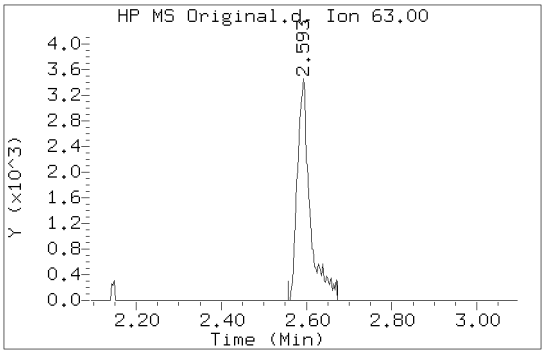
AFTER

MASS
61
AREA
21848
HEIGHT
10276
22-Jun-2024
12:20
RUCHA
PATEL



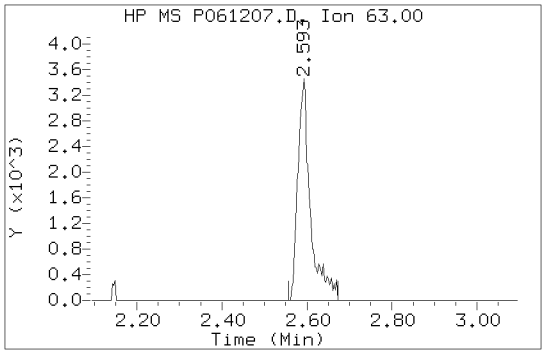
BEFORE

MASS
63
AREA
7162
HEIGHT
3460
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
63
AREA
7162
HEIGHT
3460
22-Jun-2024
12:20
RUCHA
PATEL

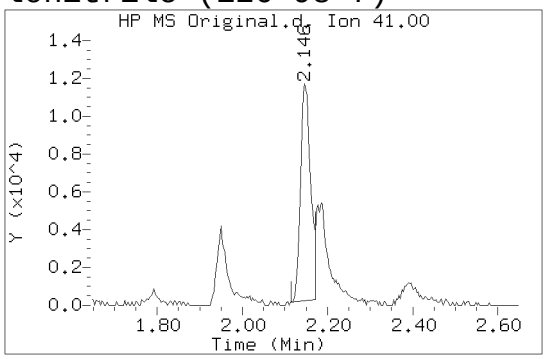


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061207.D
Inj Date : 12-JUN-2024 13:14
InstruID : voa7.i
LabSampID : VSTD010

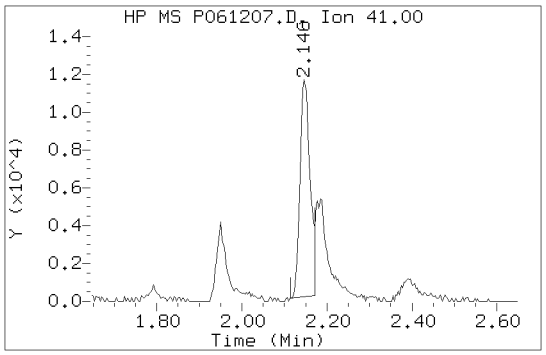
Methacrylonitrile (126-98-7)

Reason Code:

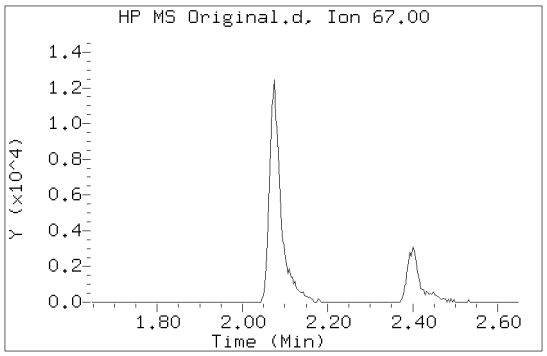
BEFORE
MASS
41
AREA
19313
HEIGHT
11476
22-Jun-2024
12:20
RUCHA
PATEL



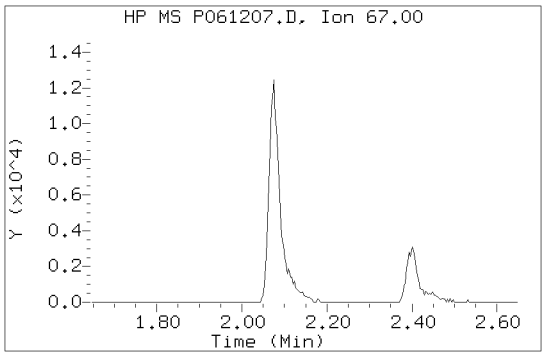
AFTER
MASS
41
AREA
19313
HEIGHT
11476
22-Jun-2024
12:20
RUCHA
PATEL



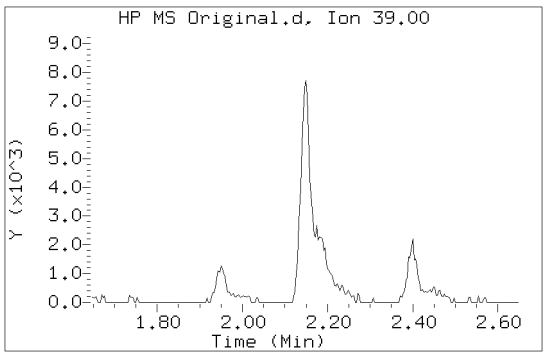
BEFORE
MASS
67
AREA
4185
HEIGHT
2335
22-Jun-2024
12:20
RUCHA
PATEL



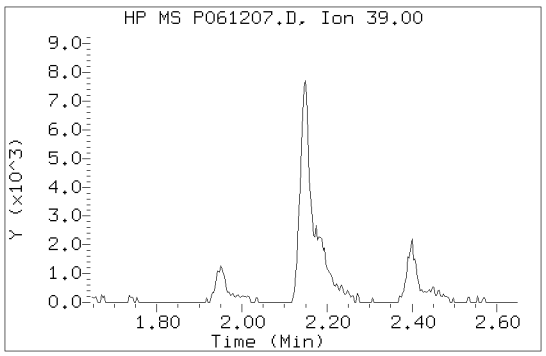
AFTER
MASS
67
AREA
4185
HEIGHT
2335
22-Jun-2024
12:20
RUCHA
PATEL



BEFORE
MASS
39
AREA
3050
HEIGHT
1232
22-Jun-2024
12:20
RUCHA
PATEL



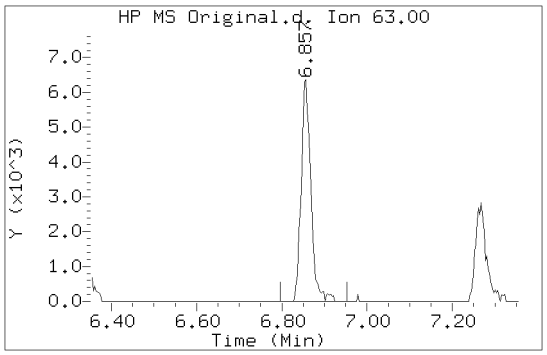
AFTER
MASS
39
AREA
3050
HEIGHT
1232
22-Jun-2024
12:20
RUCHA
PATEL



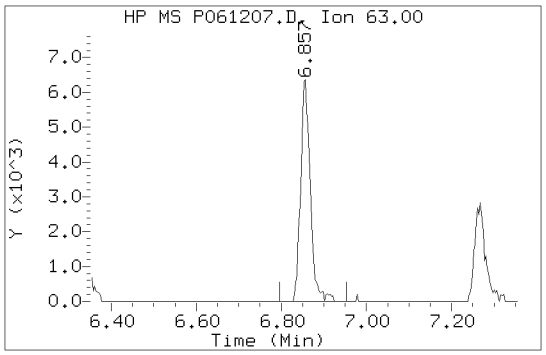
2-Chloroethylvinyl ether (110-75-8)

Reason Code:

BEFORE
MASS
63
AREA
10150
HEIGHT
6362
22-Jun-2024
12:20
RUCHA
PATEL



AFTER
MASS
63
AREA
10150
HEIGHT
6362
22-Jun-2024
12:20
RUCHA
PATEL



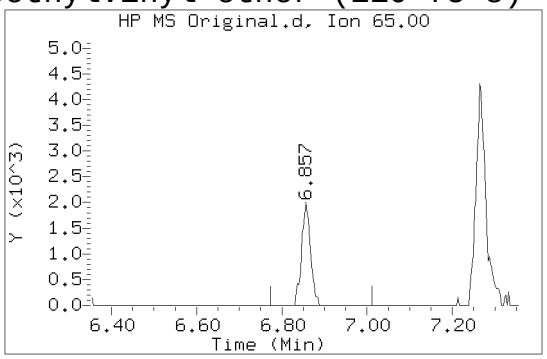
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061207.D
Inj Date : 12-JUN-2024 13:14
InstruID : voa7.i
LabSampID : VSTD010

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

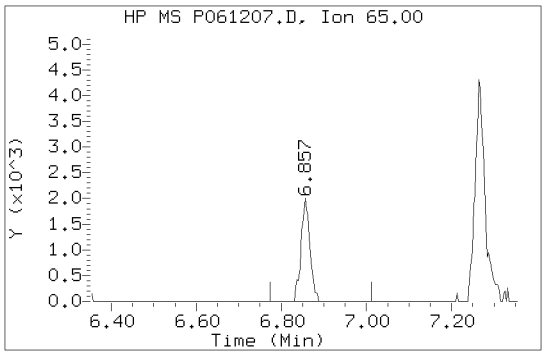
BEFORE

MASS
65
AREA
2948
HEIGHT
2004
22-Jun-2024
12:20
RUCHA
PATEL



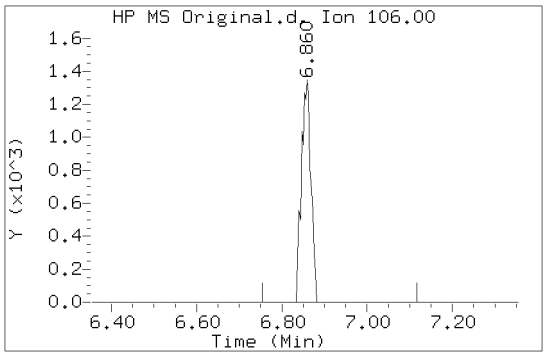
AFTER

MASS
65
AREA
2948
HEIGHT
2004
22-Jun-2024
12:20
RUCHA
PATEL



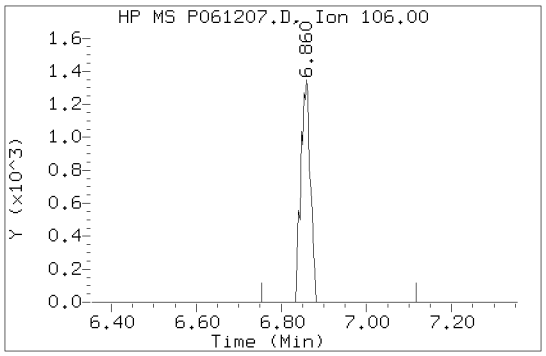
BEFORE

MASS
106
AREA
2108
HEIGHT
1348
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
106
AREA
2108
HEIGHT
1348
22-Jun-2024
12:20
RUCHA
PATEL

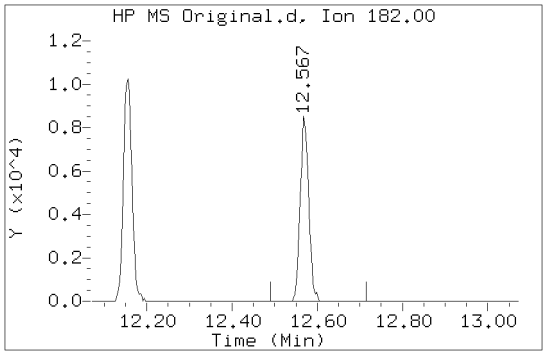


1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

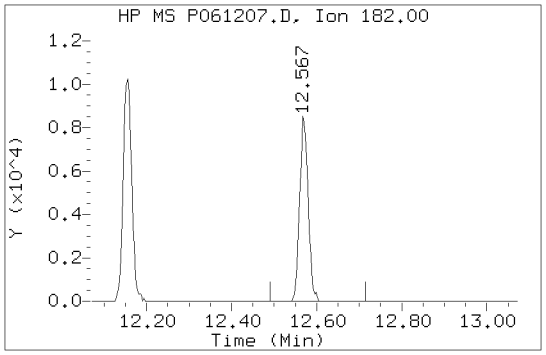
BEFORE

MASS
182
AREA
11945
HEIGHT
8535
22-Jun-2024
12:20
RUCHA
PATEL



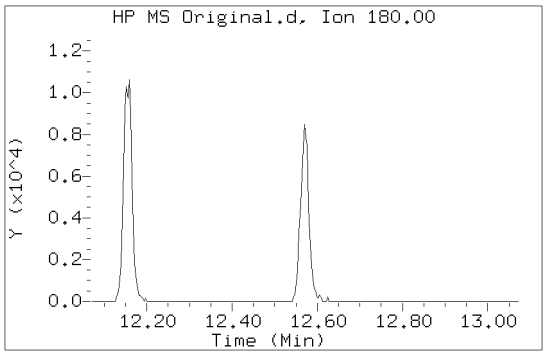
AFTER

MASS
182
AREA
11945
HEIGHT
8535
22-Jun-2024
12:20
RUCHA
PATEL



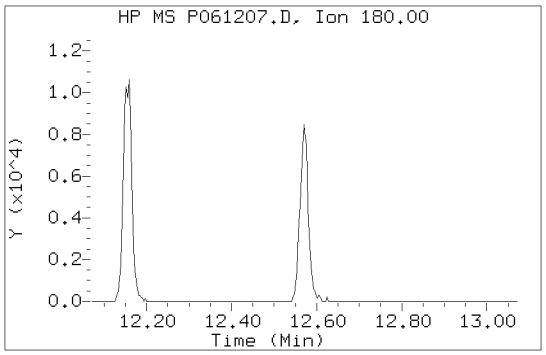
BEFORE

MASS
180
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
180
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



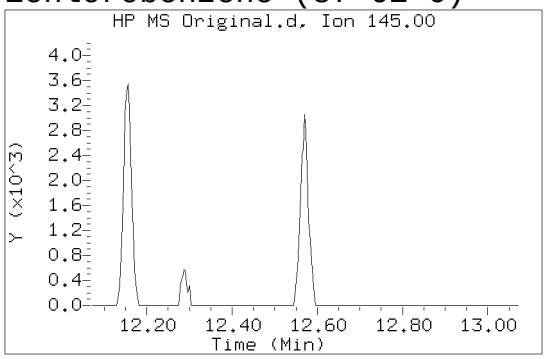
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061207.D
Inj Date : 12-JUN-2024 13:14
InstruID : voa7.i
LabSampID : VSTD010

1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

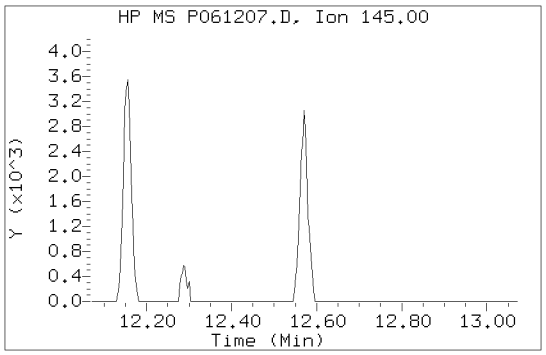
BEFORE

MASS
145
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
145
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL

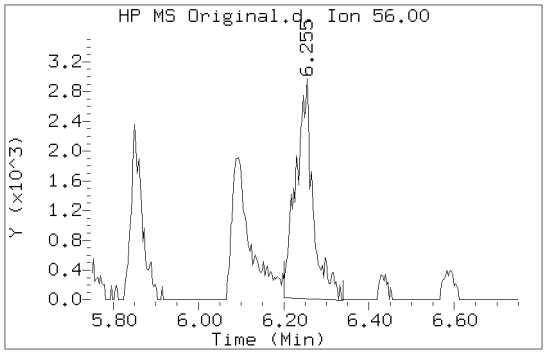


n-Butanol (71-36-3)

Reason Code:

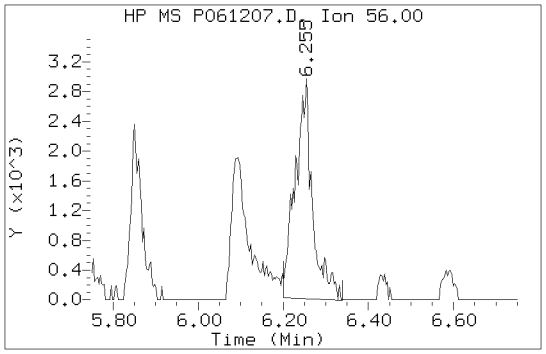
BEFORE

MASS
56
AREA
8353
HEIGHT
2957
22-Jun-2024
12:20
RUCHA
PATEL



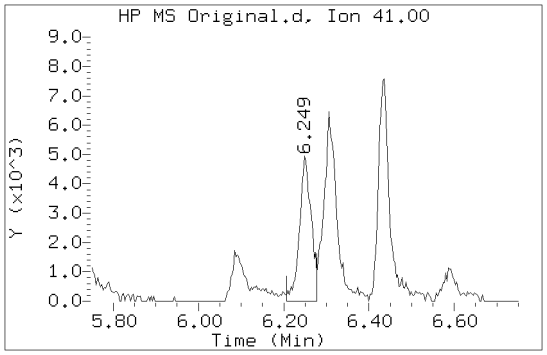
AFTER

MASS
56
AREA
8353
HEIGHT
2957
22-Jun-2024
12:20
RUCHA
PATEL



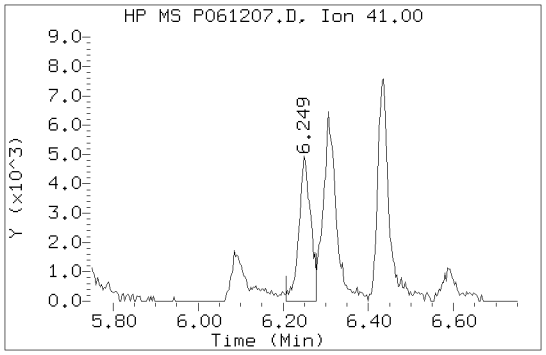
BEFORE

MASS
41
AREA
9522
HEIGHT
4950
22-Jun-2024
12:20
RUCHA
PATEL



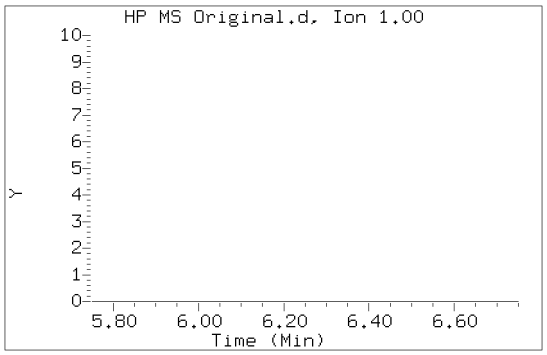
AFTER

MASS
41
AREA
9522
HEIGHT
4950
22-Jun-2024
12:20
RUCHA
PATEL



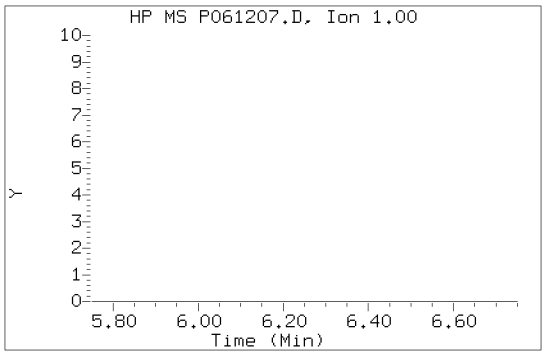
BEFORE

MASS
1
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
1
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL

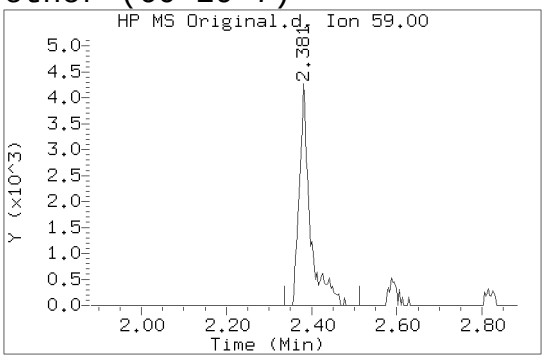


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061207.D
Inj Date : 12-JUN-2024 13:14
InstruID : voa7.i
LabSampID : VSTD010

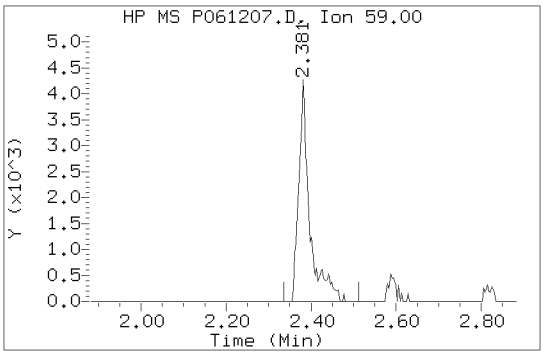
Diethyl ether (60-29-7)

Reason Code:

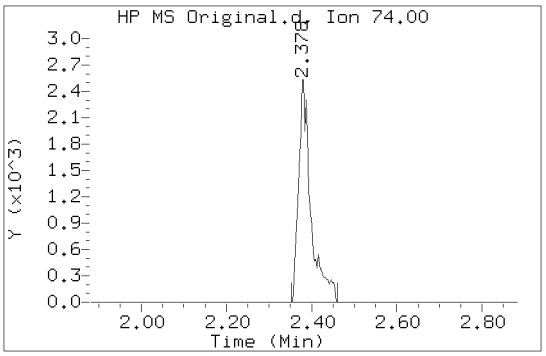
BEFORE
MASS
59
AREA
7639
HEIGHT
4272
22-Jun-2024
12:20
RUCHA
PATEL



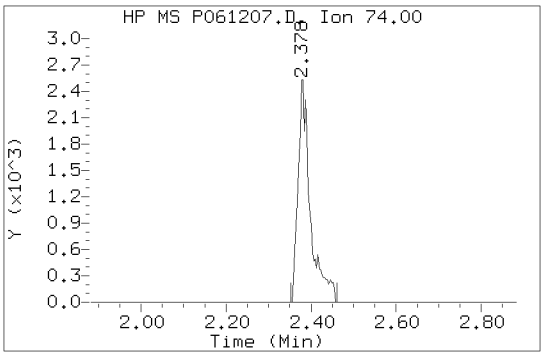
AFTER
MASS
59
AREA
7639
HEIGHT
4272
22-Jun-2024
12:20
RUCHA
PATEL



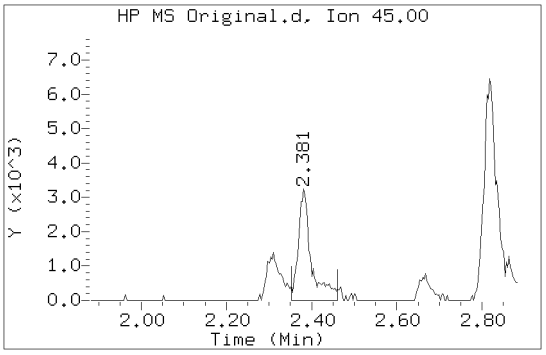
BEFORE
MASS
74
AREA
5103
HEIGHT
2530
22-Jun-2024
12:20
RUCHA
PATEL



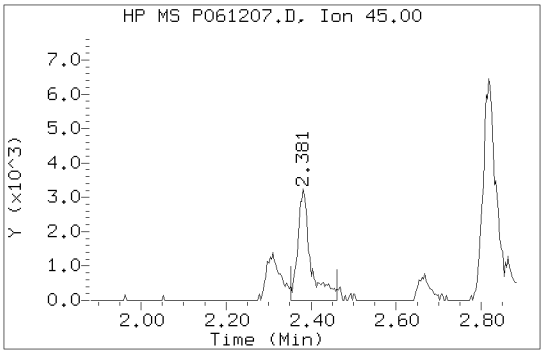
AFTER
MASS
74
AREA
5103
HEIGHT
2530
22-Jun-2024
12:20
RUCHA
PATEL



BEFORE
MASS
45
AREA
6963
HEIGHT
3248
22-Jun-2024
12:20
RUCHA
PATEL



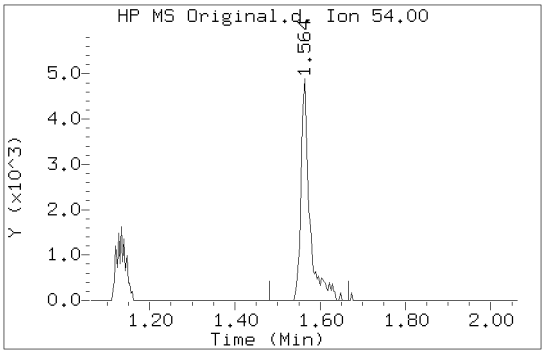
AFTER
MASS
45
AREA
6963
HEIGHT
3248
22-Jun-2024
12:20
RUCHA
PATEL



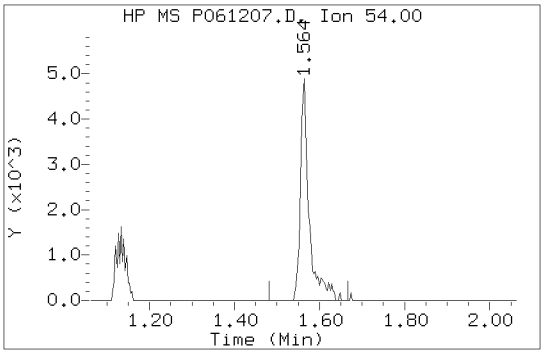
1,3-Butadiene (106-99-0)

Reason Code:

BEFORE
MASS
54
AREA
7078
HEIGHT
4891
22-Jun-2024
12:20
RUCHA
PATEL



AFTER
MASS
54
AREA
7078
HEIGHT
4891
22-Jun-2024
12:20
RUCHA
PATEL



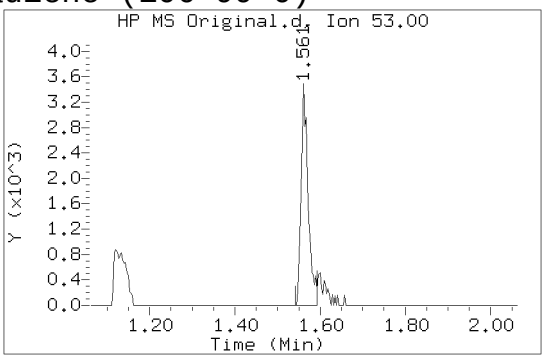
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061207.D
Inj Date : 12-JUN-2024 13:14
InstruID : voa7.i
LabSampID : VSTD010

1,3-Butadiene (106-99-0)

Reason Code:

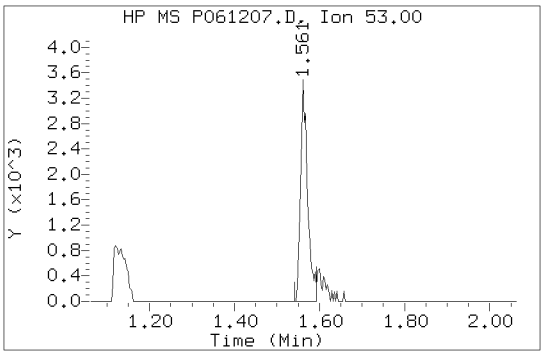
BEFORE

MASS
53
AREA
4081
HEIGHT
3491
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
53
AREA
4081
HEIGHT
3491
22-Jun-2024
12:20
RUCHA
PATEL

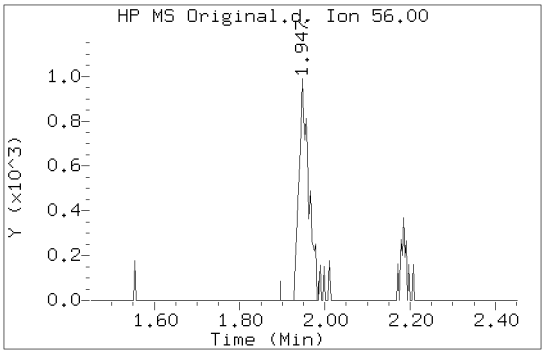


Isobutylene (115-11-7)

Reason Code:

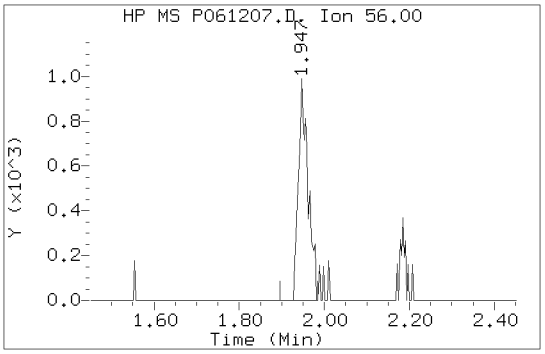
BEFORE

MASS
56
AREA
1565
HEIGHT
990
22-Jun-2024
12:20
RUCHA
PATEL



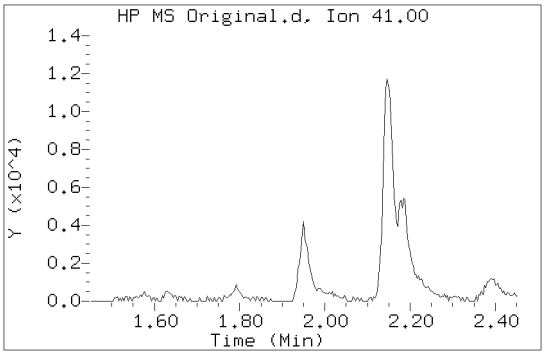
AFTER

MASS
56
AREA
1565
HEIGHT
990
22-Jun-2024
12:20
RUCHA
PATEL



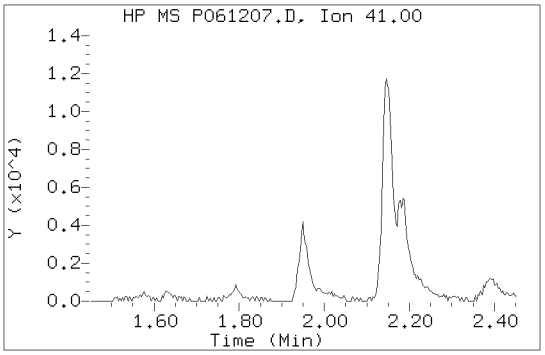
BEFORE

MASS
41
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



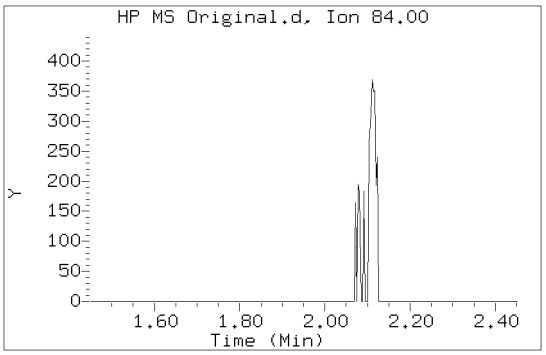
AFTER

MASS
41
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



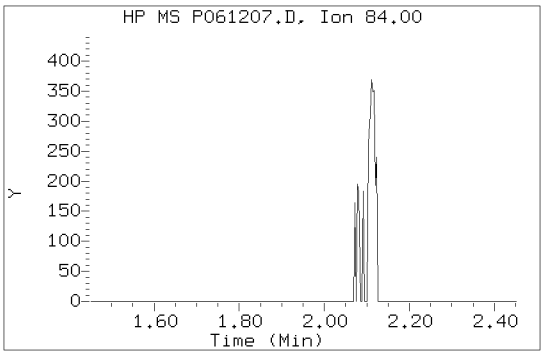
BEFORE

MASS
84
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
84
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



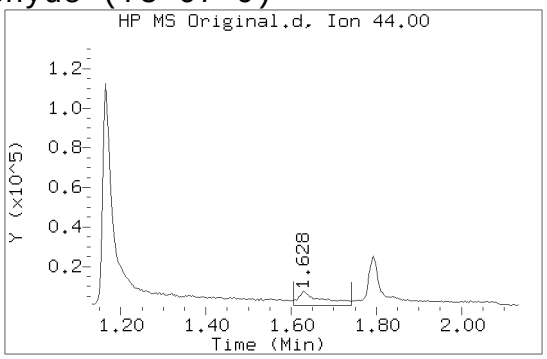
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061207.D
Inj Date : 12-JUN-2024 13:14
InstruID : voa7.i
LabSampID : VSTD010

Acetaldehyde (75-07-0)

Reason Code:

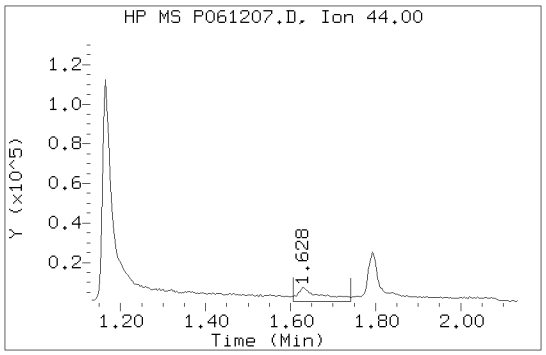
BEFORE

MASS
44
AREA
27449
HEIGHT
6963
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
44
AREA
27449
HEIGHT
6963
22-Jun-2024
12:20
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061208.D Page 1
Report Date: 22-Jun-2024 12:21

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061208.D
Lab Smp Id: VSTD020 Client Smp ID: VSTD020
Inj Date : 12-JUN-2024 13:37
Operator : AP Inst ID: voa7.i
Smp Info : VSTD020
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240612.b\8260W.m
Meth Date : 22-Jun-2024 12:21 voa7.i Quant Type: ISTD
Cal Date : 12-JUN-2024 13:14 Cal File: P061207.D
Als bottle: 11 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	5.133	5.133	(1.000)	124327	50.0000	
2	Dichlorodifluoromethane	85	1.294	1.294	(0.252)	26161	20.0000	20.32
159	Dichlorofluoromethane	67	2.075	2.075	(0.404)	48376	20.0000	18.83
3	Chloromethane	50	1.451	1.451	(0.283)	40922	20.0000	20.63
4	Propionitrile	54	4.670	4.670	(0.910)	33066	200.000	197.56
5	Vinyl Chloride	62	1.535	1.535	(0.299)	35249	20.0000	20.53
6	Bromomethane	94	1.808	1.808	(0.352)	23141	20.0000	19.84
7	Chloroethane	64	1.898	1.898	(0.370)	21226	20.0000	20.26
8	Trichlorofluoromethane	101	2.113	2.113	(0.412)	45662	20.0000	20.31
9	Acrolein	56	2.519	2.519	(0.491)	1590	40.0000	34.13
10	Acetone	43	2.666	2.666	(0.520)	19214	40.0000	42.16
11	1,1-Dichloroethene	96	2.589	2.589	(0.505)	24417	20.0000	20.37
12	Isobutyl Alcohol	43	5.573	5.573	(1.086)	83712	400.000	417.01
13	Acetonitrile	39	2.956	2.956	(0.576)	35284	200.000	199.86
14	Allyl Chloride	41	2.959	2.959	(0.577)	74522	20.0000	19.70
15	Iodomethane	142	2.740	2.740	(0.534)	28182	40.0000	34.63
16	Acrylonitrile	53	3.380	3.380	(0.659)	17124	40.0000	40.69
17	Methylene Chloride	84	3.091	3.091	(0.602)	30059	20.0000	20.23
18	Methyl tert-butyl ether	73	3.380	3.380	(0.659)	60849	20.0000	19.11
19	Carbon Disulfide	76	2.795	2.795	(0.545)	157714	40.0000	40.46

20 trans-1,2-Dichloroethene	96	3.374	3.374 (0.657)	25463	20.0000	19.14
21 Vinyl Acetate	43	4.660	4.660 (0.908)	26974	40.0000	38.27

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061208.D Page 2
Report Date: 22-Jun-2024 12:21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
22	1,1-Dichloroethane	63	3.866	3.866	(0.753)	54427	20.0000	20.20
23	Chloroprene	53	3.965	3.965	(0.773)	44769	20.0000	19.19
24	2-Butanone	43	4.592	4.592	(0.895)	24892	40.0000	42.41
25	Methacrylonitrile	41	2.149	2.149	(0.419)	40265	20.0000	20.52(M)
26	2,2-Dichloropropane	77	4.538	4.538	(0.884)	45854	20.0000	19.95
27	cis-1,2-Dichloroethene	96	4.544	4.544	(0.885)	29226	20.0000	19.81
28	Chloroform	83	4.904	4.904	(0.956)	54121	20.0000	20.34
29	Bromochloromethane	128	4.801	4.801	(0.935)	14625	20.0000	20.37
$ 30	Dibromofluoromethane	113	5.072	5.072	(0.988)	27328	20.0000	20.27
31	1,1,1-Trichloroethane	97	5.072	5.072	(0.988)	46096	20.0000	20.04
32	1,1-Dichloropropene	75	5.245	5.245	(0.896)	40307	20.0000	19.99
33	1,2-Dichloroethane	62	5.490	5.490	(0.938)	45019	20.0000	19.91
34	Carbon Tetrachloride	117	5.236	5.236	(0.895)	39382	20.0000	19.38
$ 35	1,2-Dichloroethane-d4	65	5.419	5.419	(1.056)	36179	20.0000	20.23
* 36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	204746	50.0000	
37	Benzene	78	5.457	5.457	(0.932)	109367	20.0000	20.00
38	Trichloroethene	130	6.091	6.091	(1.041)	28788	20.0000	20.21
39	Bromodichloromethane	83	6.567	6.567	(1.122)	40275	20.0000	19.50
40	Methyl Methacrylate	41	6.432	6.432	(1.253)	26965	20.0000	20.25
41	2-Chloroethylvinyl ether	63	6.856	6.856	(1.171)	21639	40.0000	40.06(M)
42	1,2-Dichloropropane	63	6.309	6.309	(1.078)	31365	20.0000	19.86
43	2-Nitropropane	43	6.798	6.798	(1.324)	8546	20.0000	20.06
44	Dibromomethane	93	6.416	6.416	(1.096)	18165	20.0000	20.31
45	4-Methyl-2-Pentanone	43	7.126	7.126	(0.841)	59237	40.0000	41.72
46	cis-1,3-Dichloropropene	75	6.978	6.978	(1.192)	43881	20.0000	19.53
* 47	Chlorobenzene-d5	117	8.470	8.470	(1.000)	189070	50.0000	
$ 48	Toluene-d8	98	7.207	7.207	(0.851)	96641	20.0000	19.70
49	Ethyl Methacrylate	69	8.046	8.046	(1.375)	24489	20.0000	18.91
50	Toluene	91	7.264	7.264	(0.858)	114618	20.0000	20.18
51	trans-1,3-Dichloropropene	75	6.978	6.978	(1.192)	43881	20.0000	19.53
52	2-Hexanone	43	7.862	7.862	(0.928)	39097	40.0000	39.61
53	1,1,2-Trichloroethane	83	7.637	7.637	(0.902)	22801	20.0000	20.69
54	1,3-Dichloropropane	76	7.782	7.782	(0.919)	46447	20.0000	20.27
55	Dibromochloromethane	129	7.978	7.978	(0.942)	30210	20.0000	20.06
56	Tetrachloroethene	164	7.737	7.737	(0.913)	22116	20.0000	20.22
57	1,2-Dibromoethane	107	8.068	8.068	(0.953)	21812	20.0000	20.70
58	1-Chlorohexane	55	8.470	8.470	(1.447)	29232	20.0000	20.46
59	Chlorobenzene	112	8.493	8.493	(1.003)	74949	20.0000	20.20
60	1,1,1,2-Tetrachloroethane	131	8.563	8.563	(1.011)	26714	20.0000	19.66
61	Ethylbenzene	106	8.583	8.583	(1.013)	38647	20.0000	20.28
62	m,p-Xylenes	106	8.686	8.686	(1.025)	96983	40.0000	40.25
63	o-Xylene	106	9.026	9.026	(1.066)	47025	20.0000	20.25
64	Styrene	104	9.039	9.039	(1.067)	77439	20.0000	19.93
66	Bromoform	173	9.203	9.203	(1.087)	18623	20.0000	19.73
67	Isopropylbenzene	105	9.338	9.338	(1.102)	119139	20.0000	20.30
68	1,1,2,2-Tetrachloroethane	83	9.608	9.608	(0.919)	34384	20.0000	20.76
$ 69	4-Bromofluorobenzene	95	9.473	9.473	(1.118)	38666	20.0000	19.58
* 70	1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	93257	50.0000	
71	1,2,3-Trichloropropane	75	9.647	9.647	(0.923)	38498	20.0000	21.46
72	trans-1,4-Dichloro-2-butene	53	9.657	9.657	(1.140)	7571	20.0000	19.70
73	n-Propylbenzene	91	9.689	9.689	(0.927)	142065	20.0000	20.48
74	Bromobenzene	156	9.602	9.602	(0.918)	31875	20.0000	20.47

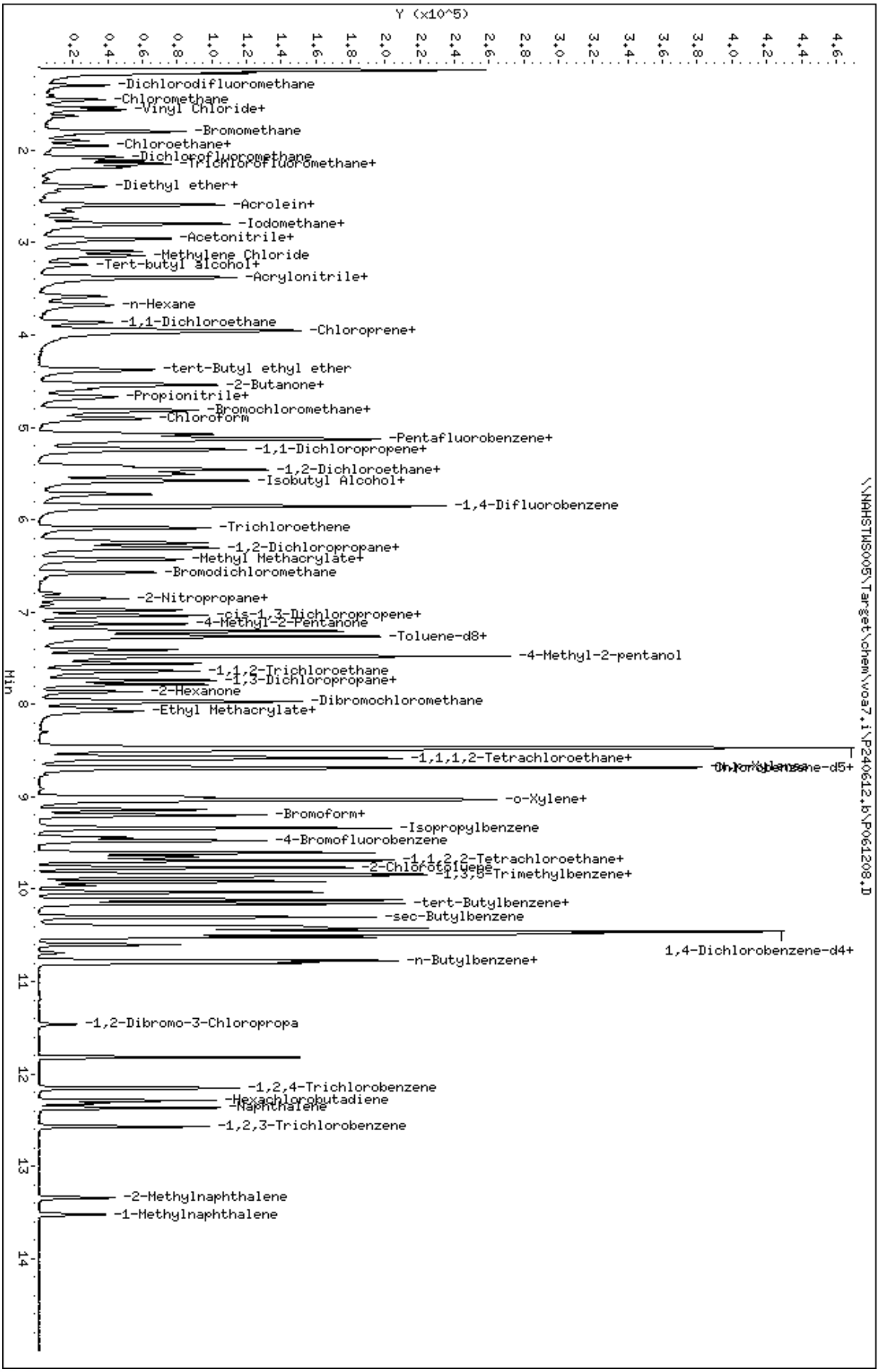
75	1,3,5-Trimethylbenzene	105	9.837	9.837 (0.941)	100061	20.0000	20.60
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	89803	20.0000	20.84

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
77	4-Chlorotoluene	91	9.859	9.859	(0.943)	103804	20.0000	20.56
78	tert-Butylbenzene	119	10.116	10.116	(0.967)	86493	20.0000	21.05
79	1,2,4-Trimethylbenzene	105	10.158	10.158	(0.971)	100023	20.0000	20.33
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	117646	20.0000	20.69
82	p-Isopropyltoluene	119	10.425	10.425	(0.997)	101939	20.0000	19.18
83	1,3-Dichlorobenzene	146	10.403	10.403	(0.995)	56080	20.0000	20.17
84	1,4-Dichlorobenzene	146	10.476	10.476	(1.002)	57142	20.0000	19.80
87	n-Butylbenzene	91	10.772	10.772	(1.030)	95043	20.0000	19.73
88	1,2-Dichlorobenzene	146	10.798	10.798	(1.033)	54117	20.0000	20.00
89	1,2-Dibromo-3-Chloropropane	75	11.460	11.460	(1.096)	5353	20.0000	19.37
90	1,2,4-Trichlorobenzene	180	12.155	12.155	(1.162)	31742	20.0000	19.26
91	Hexachlorobutadiene	225	12.287	12.287	(1.175)	16768	20.0000	22.11
92	Naphthalene	128	12.367	12.367	(1.183)	69635	20.0000	19.08
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	24650	20.0000	18.92(M)
146	Methyl acetate	43	2.994	2.994	(0.583)	20757	20.0000	20.64
138	Freon TF	101	2.589	2.589	(0.505)	25439	20.0000	20.31
139	Diethyl ether	59	2.380	2.380	(0.464)	16841	20.0000	20.21
140	1,3-Butadiene	54	1.564	1.564	(0.305)	14952	20.0000	20.01
141	Cyclohexane	56	5.113	5.113	(0.996)	40963	20.0000	19.83
147	Methylcyclohexane	83	6.252	6.252	(1.068)	37575	20.0000	19.43
132	n-Butanol	56	6.252	6.252	(1.218)	17130	400.000	411.72(T)
131	Methyl Acrylate	55	4.692	4.692	(0.914)	28780	20.0000	21.65
133	Ethyl Acrylate	55	6.248	6.248	(1.217)	68336	20.0000	19.40
136	n-Hexane	57	3.676	3.676	(0.716)	28414	20.0000	20.48
142	Tetrahydrofuran	42	4.859	4.859	(0.947)	9203	40.0000	42.12
148	Tert-butyl alcohol	59	3.239	3.239	(0.631)	38825	400.000	454.96
149	Isopropyl alcohol	45	2.814	2.814	(0.548)	32395	400.000	408.81
151	4-Methyl-2-pentanol	45	7.477	7.477	(0.883)	156868	400.000	414.94
166	1,2,3-Trimethylbenzene	105	10.518	10.518	(1.006)	89937	20.0000	20.44
167	Ethanol	45	2.310	2.310	(0.450)	5544	400.000	394.37
172	tert-Butyl formate	59	3.239	3.239	(0.631)	38825	40.0000	45.43
173	3,3-Dimethyl-1-butanol	57	8.042	8.042	(0.950)	34477	400.000	384.04
174	tert-Amyl methyl ether	73	5.580	5.580	(1.087)	68017	20.0000	20.04
175	tert-Butyl ethyl ether	59	4.377	4.377	(0.853)	73138	20.0000	20.12
157	2-Methylnaphthalene	142	13.338	13.338	(1.275)	20582	20.0000	17.13
156	Diisopropyl ether	45	3.946	3.946	(0.769)	89049	20.0000	20.10(T)
171	1-Methylnaphthalene	142	13.521	13.521	(1.293)	17884	20.0000	17.86
130	Ethyl Acetate	43	3.946	3.946	(0.769)	165195	20.0000	20.05(T)
176	tert-Amyl alcohol	59	5.515	5.515	(1.075)	35788	400.000	408.04(A)
160	Epichlorohydrin	57	6.914	6.914	(1.181)	5554	80.0000	73.52
161	Butyl acrylate	55	8.997	8.997	(1.062)	57895	20.0000	18.86
182	Isobutylene	56	1.949	1.949	(0.380)	3849	20.0000	20.96(AM)
183	Isopropyl Acetate	43	5.573	5.573	(0.952)	83712	20.0000	20.75(A)
184	n-Amyl acetate	43	9.194	9.194	(1.085)	54713	20.0000	19.01(A)
185	Acetaldehyde	44	1.631	1.631	(0.318)	36006	80.0000	89.75(A)

QC Flag Legend

T - Target compound detected outside RT window.
A - Target compound detected but, quantitated amount exceeded maximum amount.

M - Compound response manually integrated.


Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061208.D
Date : 12-JUN-2024 13:37
Client ID: VSTD020
Sample Info: VSTD020
Purge Volume: 5.0
Column phase: DB624
Instrument: voa7.i
Operator: AP
Column diameter: 0.18
Page 1
Y (x10^5)
Min
\\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061208.D
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride+
-Bromomethane
-Chloroethane+
-Dichlorofluoromethane
-Trichlorofluoromethane+
-Diethyl ether+
-Acrolein+
-Iodomethane+
-Acetonitrile+
-Methylene Chloride
-Tert-butyl alcohol+
-Acrylonitrile+
-n-Hexane
-1,1-Dichloroethane
-Chloroprene+
-tert-Butyl ethyl ether
-2-Butanone+
-Propionitrile+
-Bromochloromethane+
-Chloroform
-Pentafluorobenzene+
-1,1-Dichloropropene+
-1,2-Dichloroethane+
-Isobutyl Alcohol+
-1,4-Difluorobenzene
-Trichloroethene
-1,2-Dichloropropane+
-Methyl Methacrylate+
-Bromodichloromethane
-2-Nitropropane+
-cis-1,3-Dichloropropene+
-4-Methyl-2-Pentanone
-Toluene-d8+
-4-Methyl-2-pentanol
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
-2-Hexanone
-Dibromochloromethane
-Ethyl Methacrylate+
-1,1,1,2-Tetrachloroethane+
-o-Xylene+
-Bromoform+
-Isopropylbenzene
-4-Bromofluorobenzene
-1,1,2,2-Tetrachloroethane+
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-tert-Butylbenzene+
-sec-Butylbenzene
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene
-2-Methylnaphthalene
-1-Methylnaphthalene

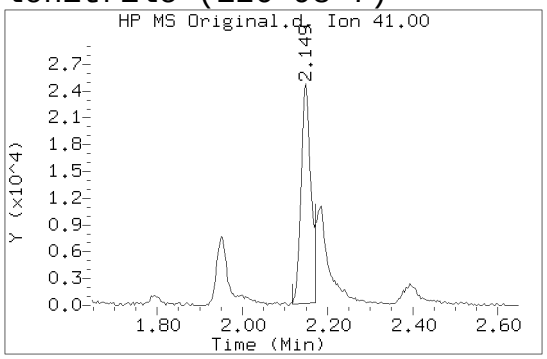
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061208.D
Inj Date : 12-JUN-2024 13:37
InstruID : voa7.i
LabSampID : VSTD020

Methacrylonitrile (126-98-7)

Reason Code:

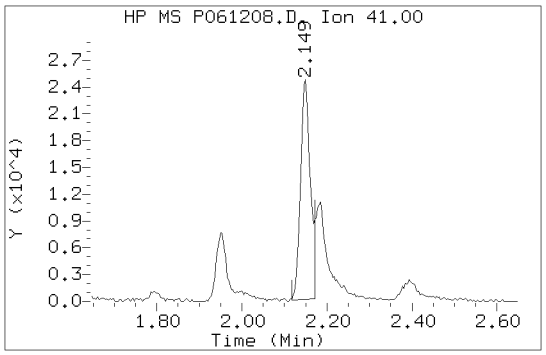
BEFORE

MASS
41
AREA
40265
HEIGHT
24597
22-Jun-2024
12:20
RUCHA
PATEL



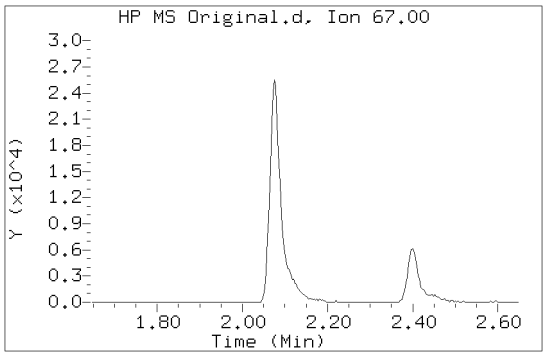
AFTER

MASS
41
AREA
40265
HEIGHT
24597
22-Jun-2024
12:20
RUCHA
PATEL



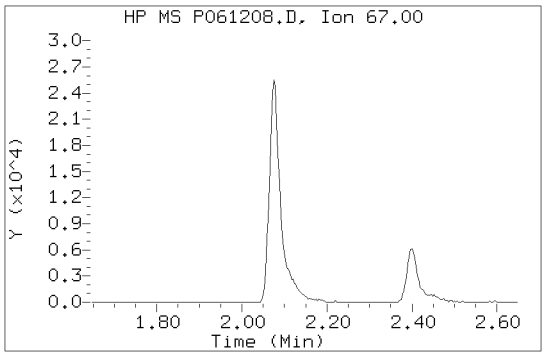
BEFORE

MASS
67
AREA
9376
HEIGHT
4256
22-Jun-2024
12:20
RUCHA
PATEL



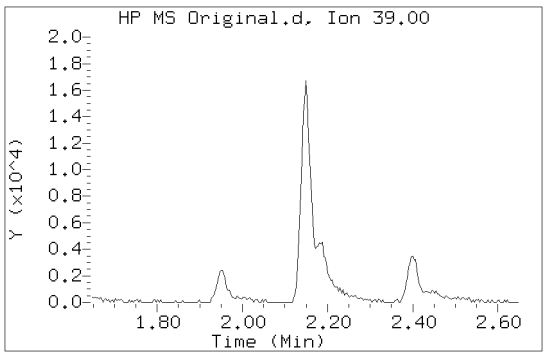
AFTER

MASS
67
AREA
9376
HEIGHT
4256
22-Jun-2024
12:20
RUCHA
PATEL



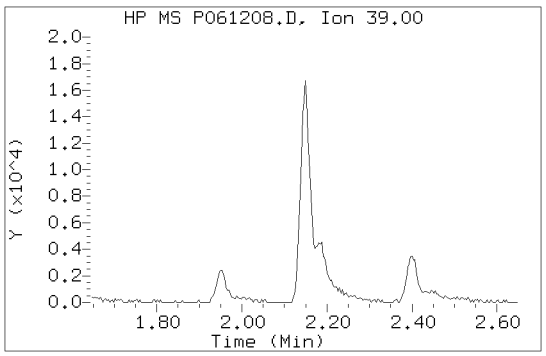
BEFORE

MASS
39
AREA
6049
HEIGHT
2225
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
39
AREA
6049
HEIGHT
2225
22-Jun-2024
12:20
RUCHA
PATEL

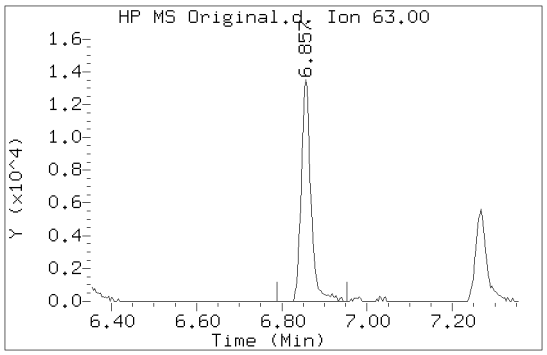


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

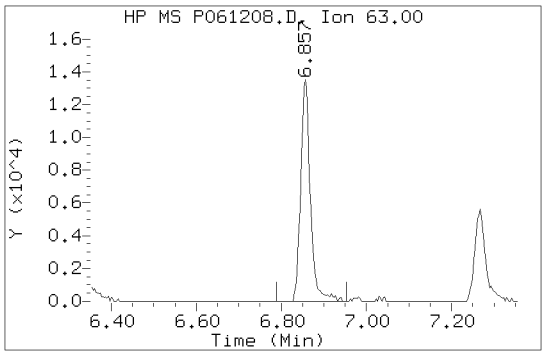
BEFORE

MASS
63
AREA
21639
HEIGHT
13516
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
63
AREA
21639
HEIGHT
13516
22-Jun-2024
12:20
RUCHA
PATEL



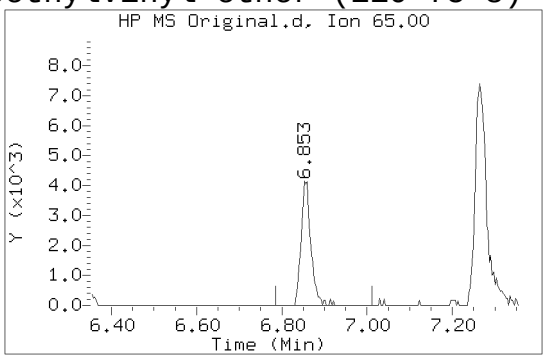
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061208.D
Inj Date : 12-JUN-2024 13:37
InstruID : voa7.i
LabSampID : VSTD020

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

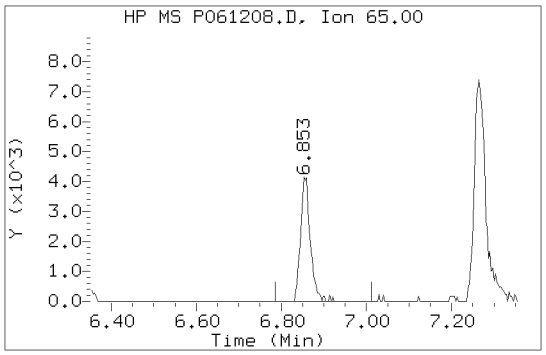
BEFORE

MASS
65
AREA
6689
HEIGHT
4144
22-Jun-2024
12:20
RUCHA
PATEL



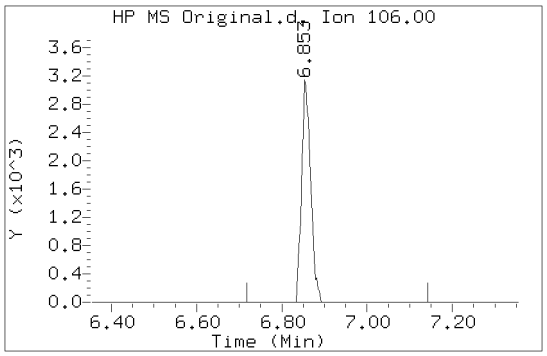
AFTER

MASS
65
AREA
6689
HEIGHT
4144
22-Jun-2024
12:20
RUCHA
PATEL



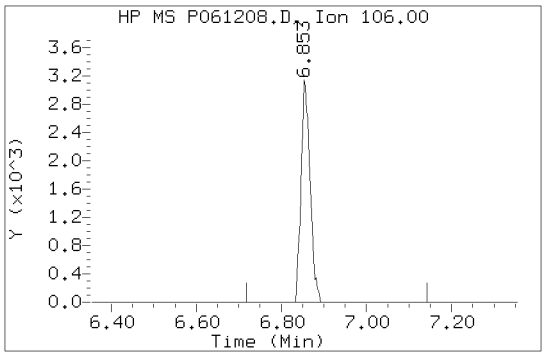
BEFORE

MASS
106
AREA
4701
HEIGHT
3146
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
106
AREA
4701
HEIGHT
3146
22-Jun-2024
12:20
RUCHA
PATEL

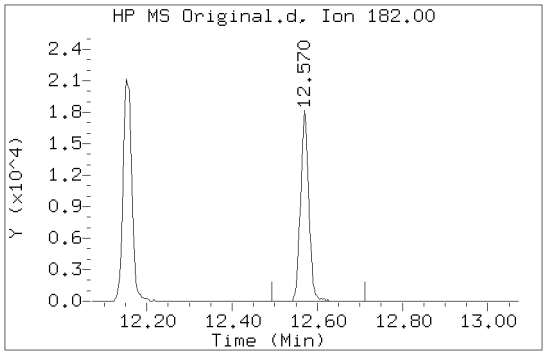


1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

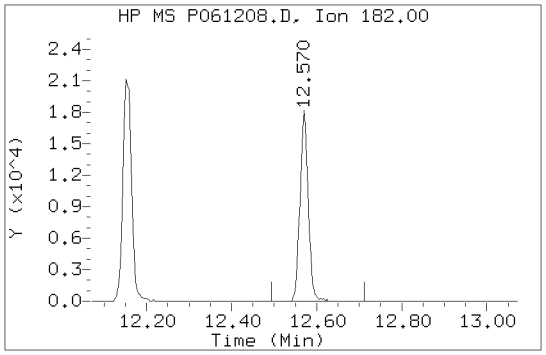
BEFORE

MASS
182
AREA
24650
HEIGHT
18160
22-Jun-2024
12:20
RUCHA
PATEL



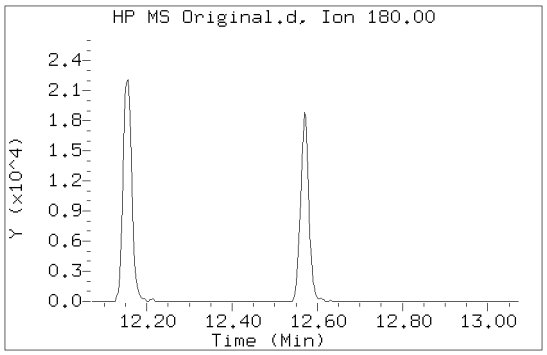
AFTER

MASS
182
AREA
24650
HEIGHT
18160
22-Jun-2024
12:20
RUCHA
PATEL



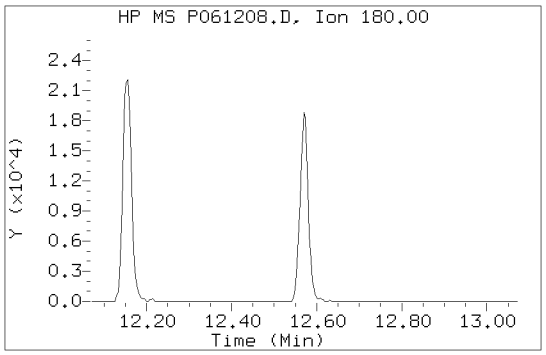
BEFORE

MASS
180
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
180
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



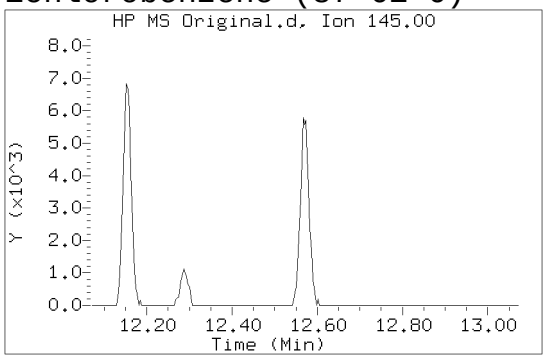
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061208.D
Inj Date : 12-JUN-2024 13:37
InstruID : voa7.i
LabSampID : VSTD020

1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

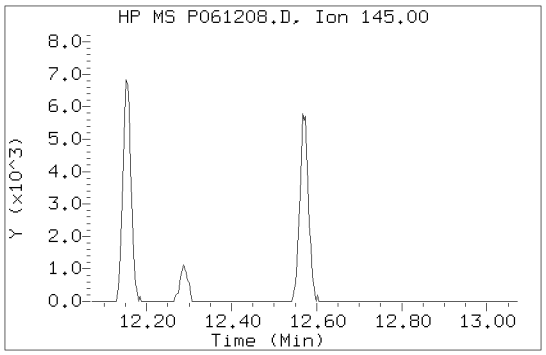
BEFORE

MASS
145
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
145
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL

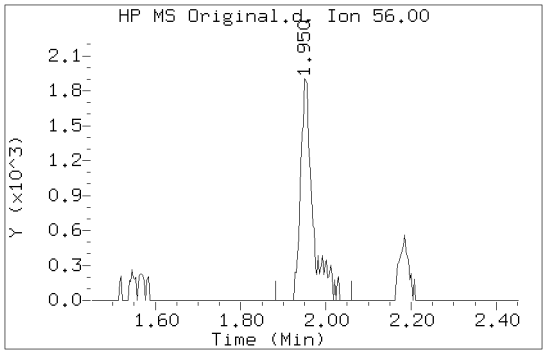


Isobutylene (115-11-7)

Reason Code:

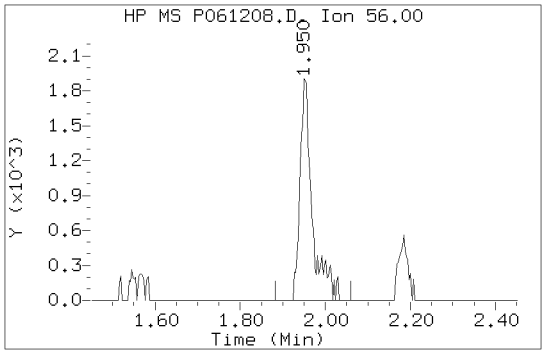
BEFORE

MASS
56
AREA
3849
HEIGHT
1904
22-Jun-2024
12:20
RUCHA
PATEL



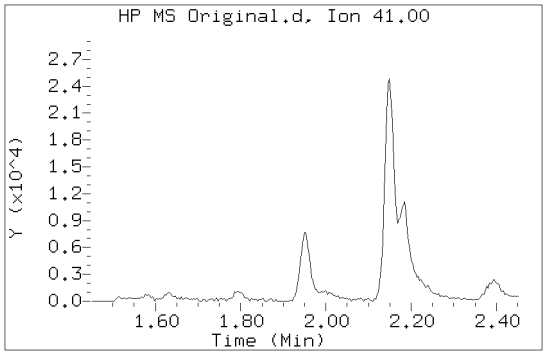
AFTER

MASS
56
AREA
3849
HEIGHT
1904
22-Jun-2024
12:20
RUCHA
PATEL



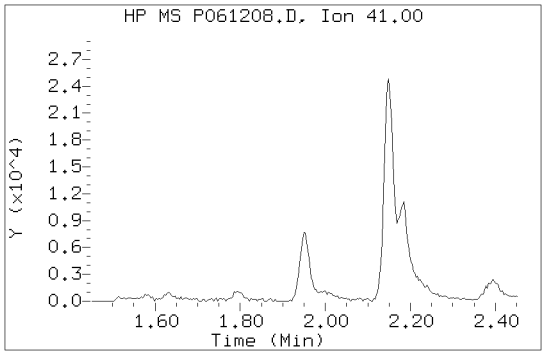
BEFORE

MASS
41
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



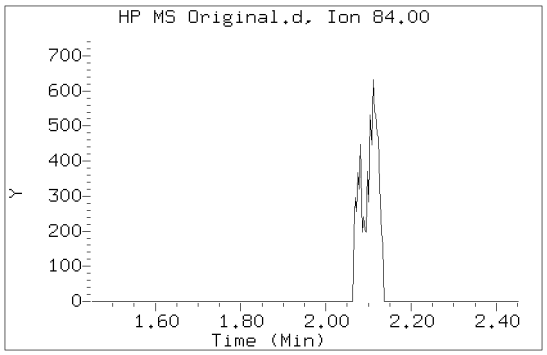
AFTER

MASS
41
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



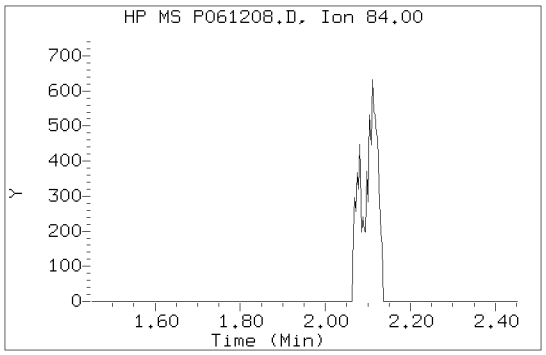
BEFORE

MASS
84
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
84
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061209.D Page 1
Report Date: 22-Jun-2024 12:21

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061209.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 12-JUN-2024 14:00
Operator : AP Inst ID: voa7.i
Smp Info : VSTD050
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240612.b\8260W.m
Meth Date : 22-Jun-2024 12:21 voa7.i Quant Type: ISTD
Cal Date : 12-JUN-2024 13:37 Cal File: P061208.D
Als bottle: 12 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	5.129	5.129	(1.000)	124506	50.0000	
2	Dichlorodifluoromethane	85	1.294	1.294	(0.252)	66335	50.0000	51.77
159	Dichlorofluoromethane	67	2.075	2.075	(0.405)	119813	50.0000	46.59
3	Chloromethane	50	1.451	1.451	(0.283)	100068	50.0000	51.49
4	Propionitrile	54	4.666	4.666	(0.910)	85378	500.000	517.68
5	Vinyl Chloride	62	1.535	1.535	(0.299)	86543	50.0000	50.55
6	Bromomethane	94	1.805	1.805	(0.352)	55461	50.0000	50.64
7	Chloroethane	64	1.895	1.895	(0.369)	52636	50.0000	50.80
8	Trichlorofluoromethane	101	2.110	2.110	(0.411)	115735	50.0000	51.02
9	Acrolein	56	2.519	2.519	(0.491)	4959	100.000	100.36
10	Acetone	43	2.667	2.667	(0.520)	44569	100.000	106.09
11	1,1-Dichloroethene	96	2.589	2.589	(0.505)	61840	50.0000	51.52
12	Isobutyl Alcohol	43	5.573	5.573	(1.086)	198746	1000.00	1010.51
13	Acetonitrile	39	2.959	2.959	(0.577)	89228	500.000	508.40
14	Allyl Chloride	41	2.956	2.956	(0.576)	193266	50.0000	51.66
15	Iodomethane	142	2.744	2.744	(0.535)	89328	100.000	95.68
16	Acrylonitrile	53	3.380	3.380	(0.659)	42984	100.000	102.67
17	Methylene Chloride	84	3.094	3.094	(0.603)	72694	50.0000	50.66
18	Methyl tert-butyl ether	73	3.377	3.377	(0.658)	160670	50.0000	48.87
19	Carbon Disulfide	76	2.795	2.795	(0.545)	392943	100.000	100.09

20 trans-1,2-Dichloroethene	96	3.377	3.377 (0.658)	64262	50.0000	48.24
21 Vinyl Acetate	43	4.657	4.657 (0.908)	67633	100.000	98.76

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061209.D Page 2
Report Date: 22-Jun-2024 12:21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
22	1,1-Dichloroethane	63	3.863	3.863	(0.753)	136347	50.0000	50.69
23	Chloroprene	53	3.962	3.962	(0.772)	114558	50.0000	49.04
24	2-Butanone	43	4.589	4.589	(0.895)	55817	100.000	98.39
25	Methacrylonitrile	41	2.149	2.149	(0.419)	95842	50.0000	47.23(M)
26	2,2-Dichloropropane	77	4.531	4.531	(0.883)	116989	50.0000	50.05
27	cis-1,2-Dichloroethene	96	4.541	4.541	(0.885)	73829	50.0000	49.95
28	Chloroform	83	4.904	4.904	(0.956)	133998	50.0000	50.71
29	Bromochloromethane	128	4.808	4.808	(0.937)	36515	50.0000	51.68
$ 30	Dibromofluoromethane	113	5.072	5.072	(0.989)	68008	50.0000	51.04
31	1,1,1-Trichloroethane	97	5.072	5.072	(0.989)	116966	50.0000	50.05
32	1,1-Dichloropropene	75	5.245	5.245	(0.896)	101818	50.0000	50.71
33	1,2-Dichloroethane	62	5.493	5.493	(0.938)	113617	50.0000	51.52
34	Carbon Tetrachloride	117	5.236	5.236	(0.895)	102107	50.0000	49.83
$ 35	1,2-Dichloroethane-d4	65	5.416	5.416	(1.056)	88709	50.0000	50.69
* 36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	202176	50.0000	
37	Benzene	78	5.457	5.457	(0.932)	271685	50.0000	50.79
38	Trichloroethene	130	6.091	6.091	(1.041)	71519	50.0000	50.86
39	Bromodichloromethane	83	6.570	6.570	(1.122)	102850	50.0000	50.36
40	Methyl Methacrylate	41	6.435	6.435	(1.254)	68215	50.0000	53.16
41	2-Chloroethylvinyl ether	63	6.856	6.856	(1.171)	55772	100.000	103.21(AM)
42	1,2-Dichloropropane	63	6.309	6.309	(1.078)	78317	50.0000	50.45
43	2-Nitropropane	43	6.801	6.801	(1.326)	21035	50.0000	48.45
44	Dibromomethane	93	6.416	6.416	(1.096)	44490	50.0000	50.61
45	4-Methyl-2-Pentanone	43	7.129	7.129	(0.842)	143348	100.000	106.52
46	cis-1,3-Dichloropropene	75	6.975	6.975	(1.192)	111444	50.0000	49.03
* 47	Chlorobenzene-d5	117	8.467	8.467	(1.000)	185304	50.0000	
$ 48	Toluene-d8	98	7.207	7.207	(0.851)	242880	50.0000	52.57
49	Ethyl Methacrylate	69	8.043	8.043	(1.374)	63036	50.0000	47.62
50	Toluene	91	7.268	7.268	(0.858)	286735	50.0000	52.83
51	trans-1,3-Dichloropropene	75	6.975	6.975	(1.192)	111444	50.0000	49.03
52	2-Hexanone	43	7.862	7.862	(0.929)	97829	100.000	104.32
53	1,1,2-Trichloroethane	83	7.637	7.637	(0.902)	55834	50.0000	53.50
54	1,3-Dichloropropane	76	7.782	7.782	(0.919)	115699	50.0000	53.18
55	Dibromochloromethane	129	7.975	7.975	(0.942)	75592	50.0000	51.53
56	Tetrachloroethene	164	7.737	7.737	(0.914)	55200	50.0000	52.10
57	1,2-Dibromoethane	107	8.075	8.075	(0.954)	52163	50.0000	51.97
58	1-Chlorohexane	55	8.470	8.470	(1.447)	69519	50.0000	51.91
59	Chlorobenzene	112	8.493	8.493	(1.003)	185207	50.0000	52.12
60	1,1,1,2-Tetrachloroethane	131	8.567	8.567	(1.012)	68429	50.0000	51.42
61	Ethylbenzene	106	8.583	8.583	(1.014)	95361	50.0000	51.76
62	m,p-Xylenes	106	8.682	8.682	(1.025)	243196	100.000	104.71
63	o-Xylene	106	9.026	9.026	(1.066)	116668	50.0000	52.28
64	Styrene	104	9.039	9.039	(1.068)	194776	50.0000	51.66
66	Bromoform	173	9.203	9.203	(1.087)	47726	50.0000	51.31
67	Isopropylbenzene	105	9.338	9.338	(1.103)	296410	50.0000	52.31
68	1,1,2,2-Tetrachloroethane	83	9.608	9.608	(0.919)	86043	50.0000	54.84
$ 69	4-Bromofluorobenzene	95	9.477	9.477	(1.119)	95402	50.0000	52.49
* 70	1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	92921	50.0000	
71	1,2,3-Trichloropropane	75	9.650	9.650	(0.923)	92496	50.0000	54.28
72	trans-1,4-Dichloro-2-butene	53	9.657	9.657	(1.140)	19015	50.0000	50.30
73	n-Propylbenzene	91	9.689	9.689	(0.927)	362847	50.0000	54.17
74	Bromobenzene	156	9.605	9.605	(0.919)	80532	50.0000	54.14

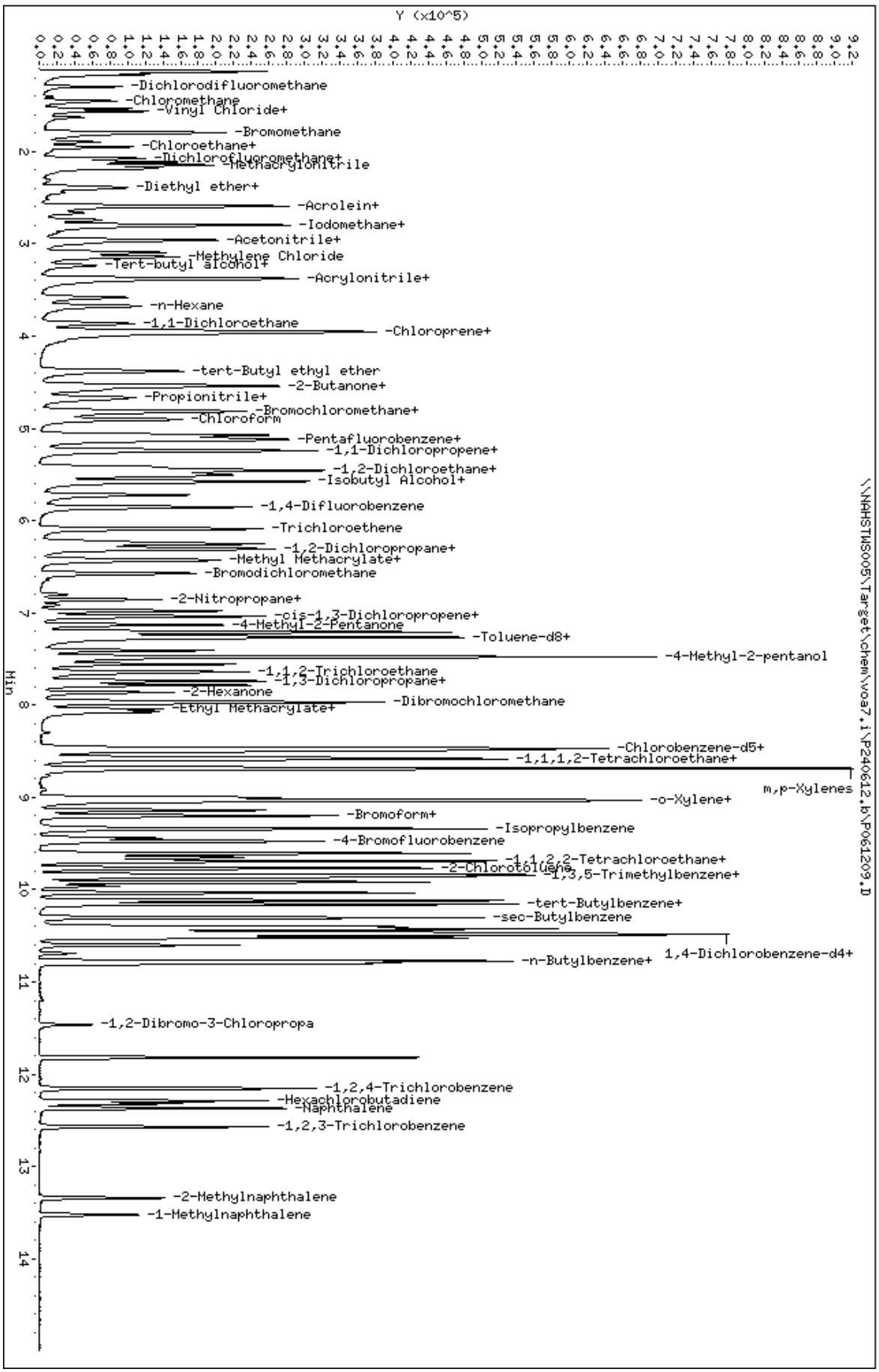
75	1,3,5-Trimethylbenzene	105	9.840	9.840 (0.941)	248908	50.0000	52.56
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	221871	50.0000	53.71

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
77	4-Chlorotoluene	91	9.859	9.859	(0.943)	260307	50.0000	53.79
78	tert-Butylbenzene	119	10.116	10.116	(0.967)	211821	50.0000	53.47
79	1,2,4-Trimethylbenzene	105	10.158	10.158	(0.971)	254417	50.0000	53.54
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	298413	50.0000	54.22
82	p-Isopropyltoluene	119	10.425	10.425	(0.997)	257879	50.0000	48.70
83	1,3-Dichlorobenzene	146	10.403	10.403	(0.995)	143335	50.0000	53.31
84	1,4-Dichlorobenzene	146	10.480	10.480	(1.002)	147752	50.0000	53.14
87	n-Butylbenzene	91	10.772	10.772	(1.030)	244882	50.0000	51.04
88	1,2-Dichlorobenzene	146	10.795	10.795	(1.032)	139489	50.0000	53.39
89	1,2-Dibromo-3-Chloropropane	75	11.467	11.467	(1.097)	13676	50.0000	49.67
90	1,2,4-Trichlorobenzene	180	12.155	12.155	(1.162)	84392	50.0000	51.24
91	Hexachlorobutadiene	225	12.290	12.290	(1.175)	42210	50.0000	55.86
92	Naphthalene	128	12.370	12.370	(1.183)	188539	50.0000	51.89
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	66724	50.0000	50.89(M)
146	Methyl acetate	43	2.995	2.995	(0.584)	48593	50.0000	49.34
138	Freon TF	101	2.593	2.593	(0.505)	64931	50.0000	50.83
139	Diethyl ether	59	2.380	2.380	(0.464)	42766	50.0000	50.70
140	1,3-Butadiene	54	1.564	1.564	(0.305)	37900	50.0000	49.39
141	Cyclohexane	56	5.110	5.110	(0.996)	103229	50.0000	50.36
147	Methylcyclohexane	83	6.248	6.248	(1.068)	100294	50.0000	50.83
132	n-Butanol	56	6.248	6.248	(1.218)	41434	1000.00	994.04(T)
131	Methyl Acrylate	55	4.689	4.689	(0.914)	67491	50.0000	51.80
133	Ethyl Acrylate	55	6.248	6.248	(1.218)	170753	50.0000	48.42(M)
136	n-Hexane	57	3.676	3.676	(0.717)	71474	50.0000	49.85
142	Tetrahydrofuran	42	4.856	4.856	(0.947)	21782	100.000	98.62
148	Tert-butyl alcohol	59	3.236	3.236	(0.631)	89417	1000.00	1077.61
149	Isopropyl alcohol	45	2.814	2.814	(0.549)	81009	1000.00	1023.96
151	4-Methyl-2-pentanol	45	7.477	7.477	(0.883)	352297	1000.00	946.47
166	1,2,3-Trimethylbenzene	105	10.518	10.518	(1.006)	232553	50.0000	55.35
167	Ethanol	45	2.313	2.313	(0.451)	14655	1000.00	1156.87
172	tert-Butyl formate	59	3.236	3.236	(0.631)	89417	100.000	107.75
173	3,3-Dimethyl-1-butanol	57	8.043	8.043	(0.950)	86895	1000.00	975.46
174	tert-Amyl methyl ether	73	5.580	5.580	(1.088)	176854	50.0000	52.76
175	tert-Butyl ethyl ether	59	4.380	4.380	(0.854)	188058	50.0000	51.65
157	2-Methylnaphthalene	142	13.341	13.341	(1.276)	64642	50.0000	47.49
156	Diisopropyl ether	45	3.949	3.949	(0.770)	227369	50.0000	50.97
171	1-Methylnaphthalene	142	13.521	13.521	(1.293)	52475	50.0000	47.45
130	Ethyl Acetate	43	3.946	3.946	(0.769)	413703	50.0000	49.41
176	tert-Amyl alcohol	59	5.512	5.512	(1.075)	89002	1000.00	1076.55(A)
160	Epichlorohydrin	57	6.911	6.911	(1.181)	16160	200.000	212.62
161	Butyl acrylate	55	8.997	8.997	(1.063)	154014	50.0000	50.61
182	Isobutylene	56	1.953	1.953	(0.381)	9733	50.0000	52.82(AM)
183	Isopropyl Acetate	43	5.573	5.573	(0.952)	198746	50.0000	51.29(A)
184	n-Amyl acetate	43	9.194	9.194	(1.086)	138814	50.0000	47.71(A)
185	Acetaldehyde	44	1.628	1.628	(0.317)	59293	200.000	186.62(A)

QC Flag Legend

T - Target compound detected outside RT window.
A - Target compound detected but, quantitated amount exceeded maximum amount.

M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa7,i\P240612,b\P061209,D
Date : 12-JUN-2024 14:00
Client ID: VSTD050
Sample Info: VSTD050
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7,i
Operator: AP
Column diameter: 0.18

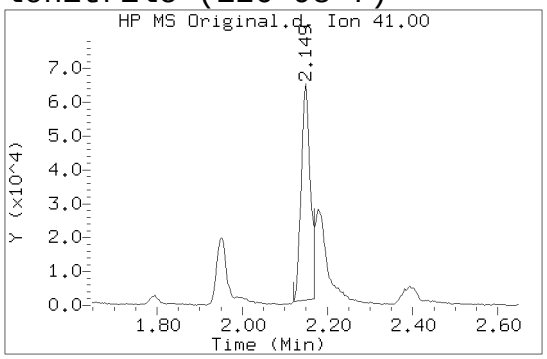
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061209.D
Inj Date : 12-JUN-2024 14:00
InstruID : voa7.i
LabSampID : VSTD050

Methacrylonitrile (126-98-7)

Reason Code:

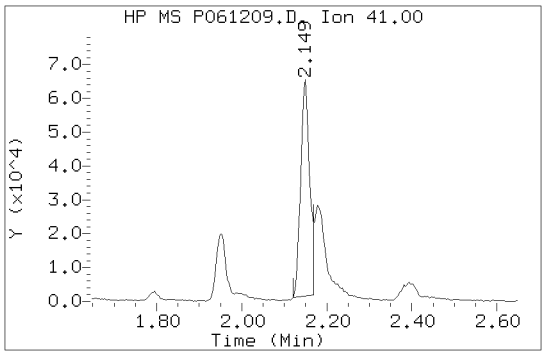
BEFORE

MASS
41
AREA
95842
HEIGHT
63899
22-Jun-2024
12:20
RUCHA
PATEL



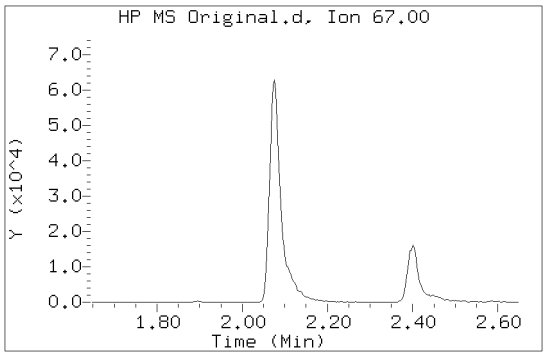
AFTER

MASS
41
AREA
95842
HEIGHT
63899
22-Jun-2024
12:20
RUCHA
PATEL



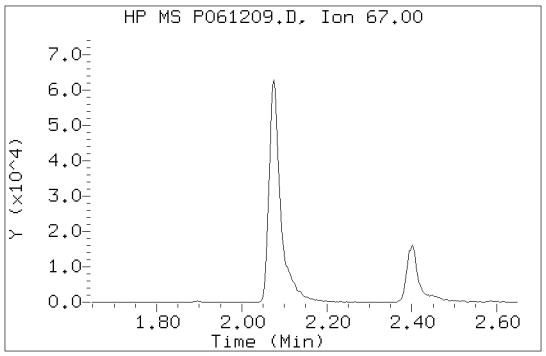
BEFORE

MASS
67
AREA
22239
HEIGHT
11222
22-Jun-2024
12:20
RUCHA
PATEL



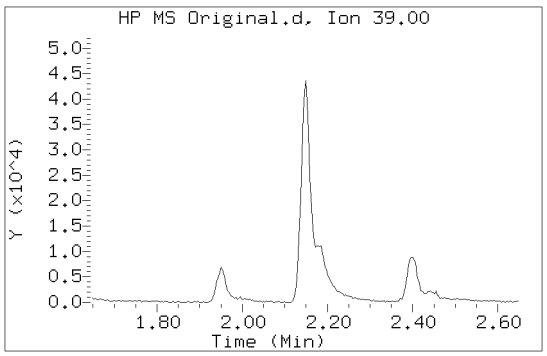
AFTER

MASS
67
AREA
22239
HEIGHT
11222
22-Jun-2024
12:20
RUCHA
PATEL



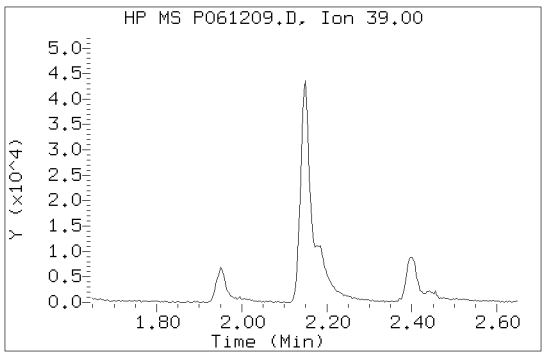
BEFORE

MASS
39
AREA
15965
HEIGHT
5889
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
39
AREA
15965
HEIGHT
5889
22-Jun-2024
12:20
RUCHA
PATEL

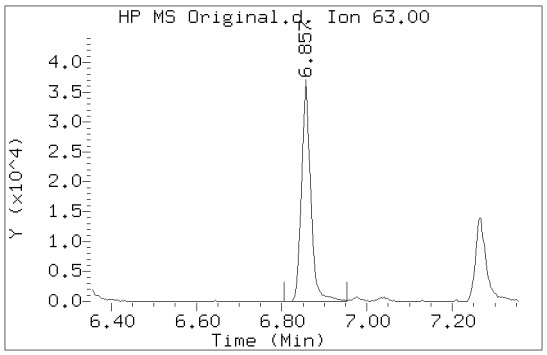


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

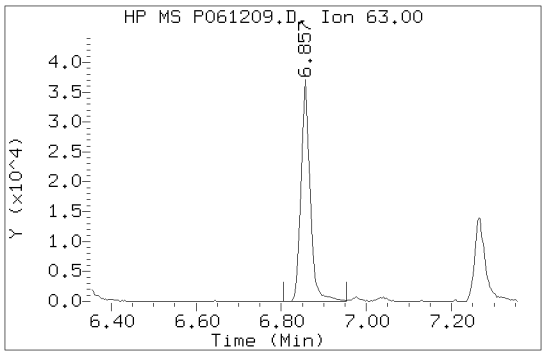
BEFORE

MASS
63
AREA
55772
HEIGHT
37080
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
63
AREA
55772
HEIGHT
37080
22-Jun-2024
12:20
RUCHA
PATEL



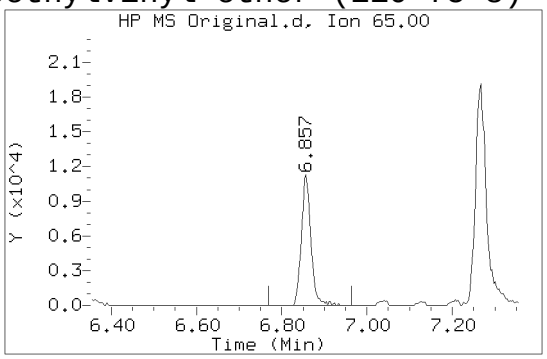
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061209.D
Inj Date : 12-JUN-2024 14:00
InstruID : voa7.i
LabSampID : VSTD050

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

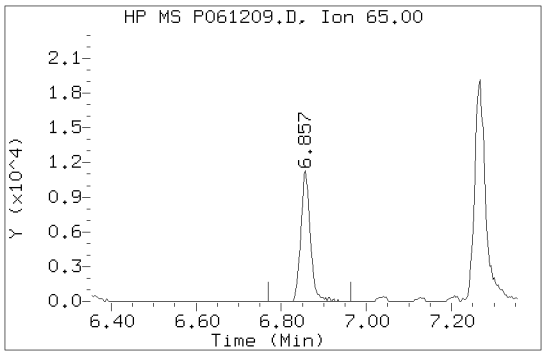
BEFORE

MASS
65
AREA
17728
HEIGHT
11318
22-Jun-2024
12:20
RUCHA
PATEL



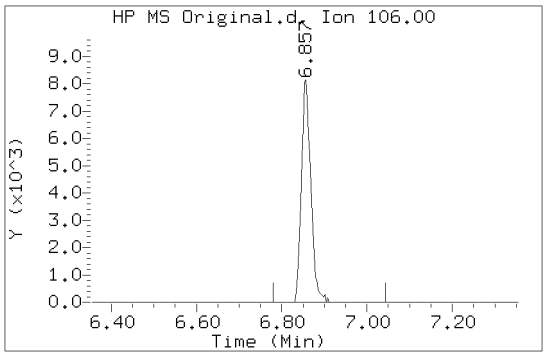
AFTER

MASS
65
AREA
17728
HEIGHT
11318
22-Jun-2024
12:20
RUCHA
PATEL



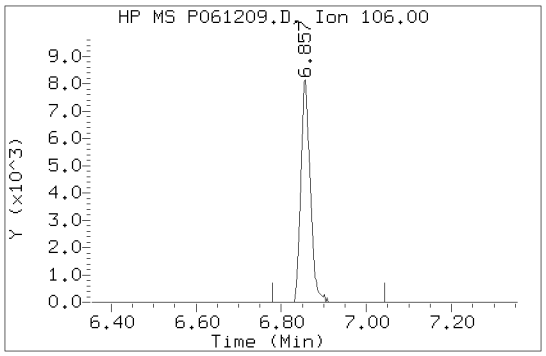
BEFORE

MASS
106
AREA
12654
HEIGHT
8144
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
106
AREA
12654
HEIGHT
8144
22-Jun-2024
12:20
RUCHA
PATEL

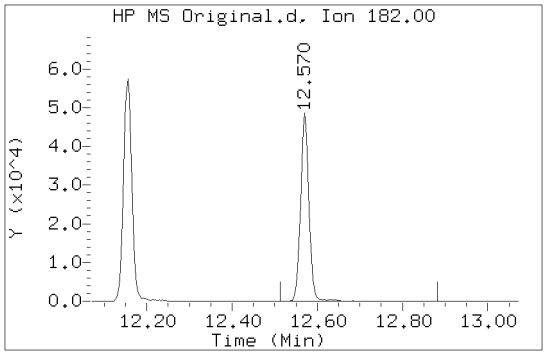


1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

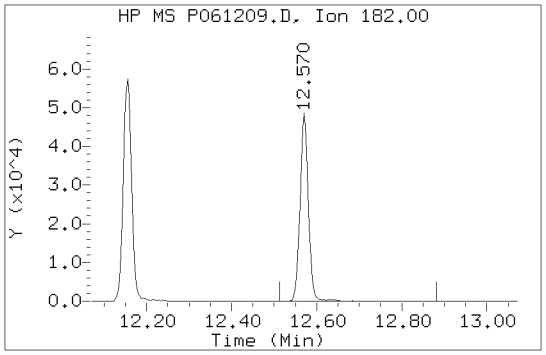
BEFORE

MASS
182
AREA
66724
HEIGHT
48640
22-Jun-2024
12:20
RUCHA
PATEL



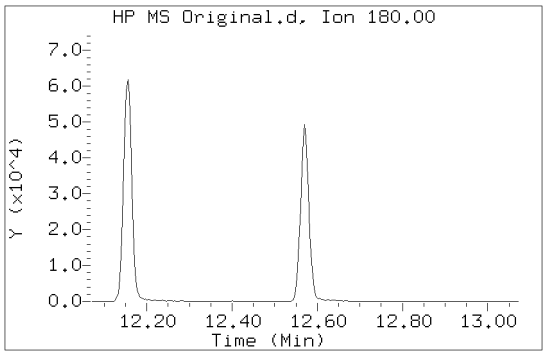
AFTER

MASS
182
AREA
66724
HEIGHT
48640
22-Jun-2024
12:20
RUCHA
PATEL



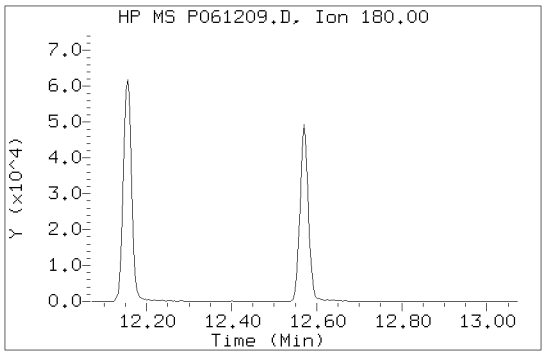
BEFORE

MASS
180
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
180
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



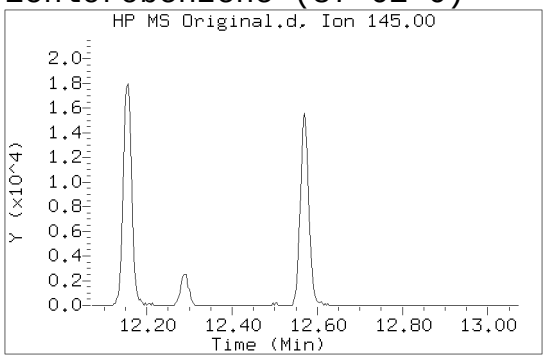
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061209.D
Inj Date : 12-JUN-2024 14:00
InstruID : voa7.i
LabSampID : VSTD050

1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

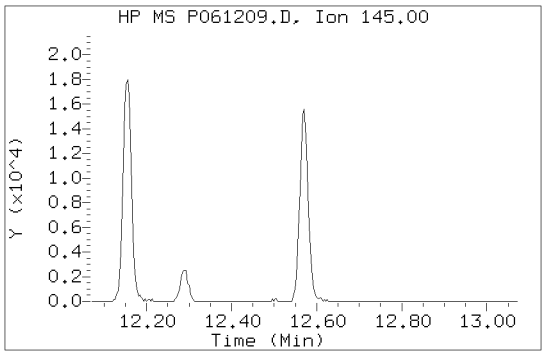
BEFORE

MASS
145
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
145
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL

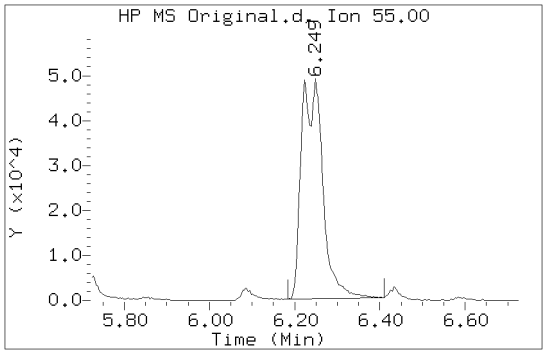


Ethyl Acrylate (140-88-5)

Reason Code:

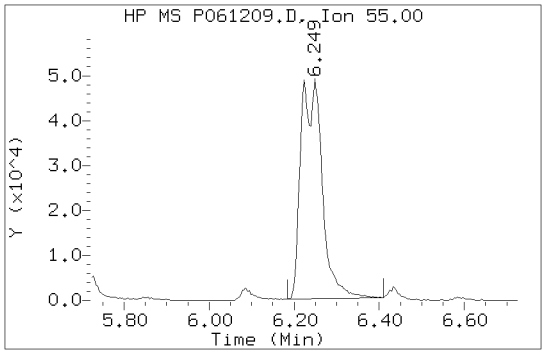
BEFORE

MASS
55
AREA
170753
HEIGHT
48986
22-Jun-2024
12:20
RUCHA
PATEL



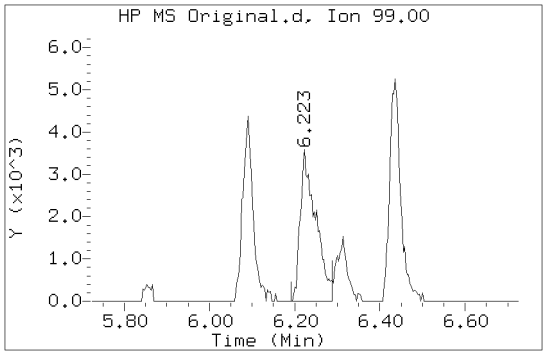
AFTER

MASS
55
AREA
170753
HEIGHT
48986
22-Jun-2024
12:20
RUCHA
PATEL



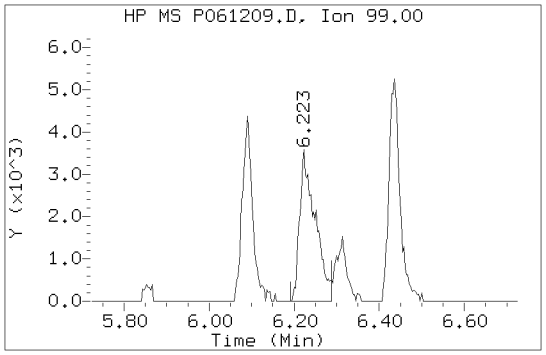
BEFORE

MASS
99
AREA
9075
HEIGHT
3592
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
99
AREA
9075
HEIGHT
3592
22-Jun-2024
12:20
RUCHA
PATEL

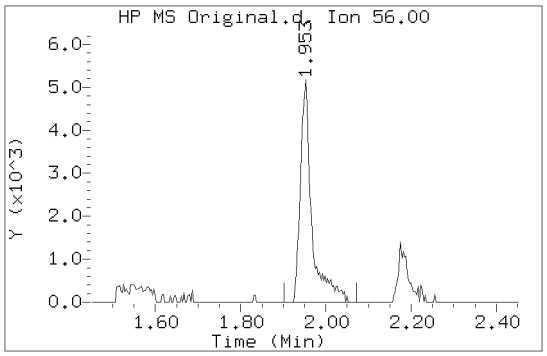


Isobutylene (115-11-7)

Reason Code:

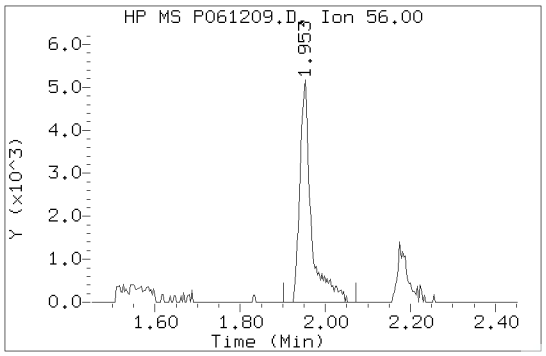
BEFORE

MASS
56
AREA
9733
HEIGHT
5174
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
56
AREA
9733
HEIGHT
5174
22-Jun-2024
12:20
RUCHA
PATEL



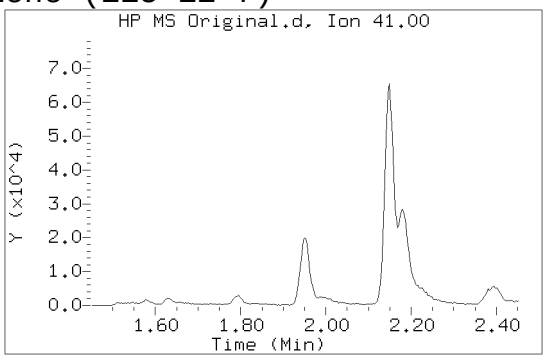
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061209.D
Inj Date : 12-JUN-2024 14:00
InstruID : voa7.i
LabSampID : VSTD050

Isobutylene (115-11-7)

Reason Code:

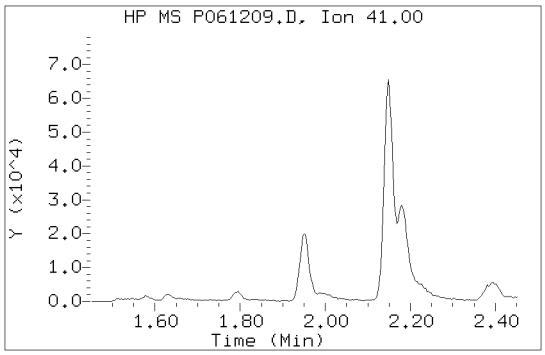
BEFORE

MASS
41
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



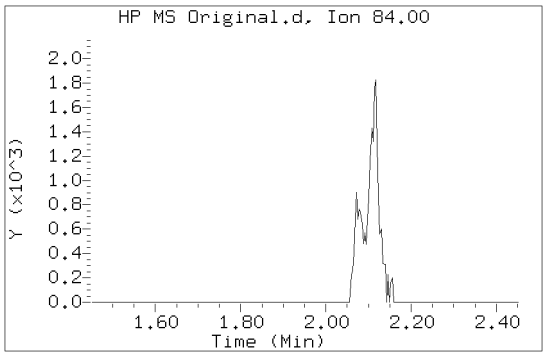
AFTER

MASS
41
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



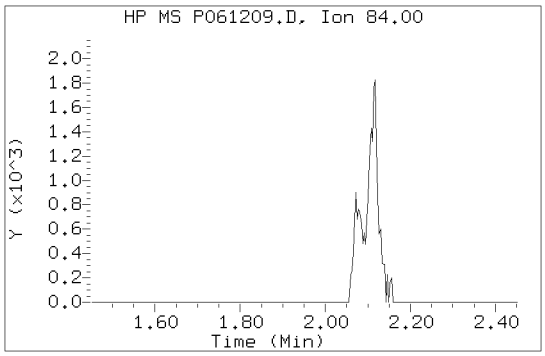
BEFORE

MASS
84
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
84
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061210.D Page 1
Report Date: 22-Jun-2024 12:21

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061210.D
Lab Smp Id: VSTD100 Client Smp ID: VSTD100
Inj Date : 12-JUN-2024 14:23
Operator : AP Inst ID: voa7.i
Smp Info : VSTD100
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240612.b\8260W.m
Meth Date : 22-Jun-2024 12:21 voa7.i Quant Type: ISTD
Cal Date : 12-JUN-2024 14:00 Cal File: P061209.D
Als bottle: 13 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	5.133	5.133	(1.000)	127934	50.0000	
2	Dichlorodifluoromethane	85	1.297	1.297	(0.253)	128579	100.000	97.84
159	Dichlorofluoromethane	67	2.075	2.075	(0.404)	234779	100.000	88.84
3	Chloromethane	50	1.451	1.451	(0.283)	194087	100.000	97.88
4	Propionitrile	54	4.673	4.673	(0.910)	165344	1000.00	980.34
5	Vinyl Chloride	62	1.535	1.535	(0.299)	171559	100.000	97.67
6	Bromomethane	94	1.802	1.802	(0.351)	104925	100.000	99.58
7	Chloroethane	64	1.892	1.892	(0.369)	103518	100.000	97.61
8	Trichlorofluoromethane	101	2.114	2.114	(0.412)	227811	100.000	97.52
9	Acrolein	56	2.519	2.519	(0.491)	9979	200.000	201.86
10	Acetone	43	2.667	2.667	(0.520)	85875	200.000	204.54
11	1,1-Dichloroethene	96	2.589	2.589	(0.505)	124922	100.000	101.30
12	Isobutyl Alcohol	43	5.573	5.573	(1.086)	394187	2000.00	1965.35
13	Acetonitrile	39	2.959	2.959	(0.577)	174954	1000.00	972.36
14	Allyl Chloride	41	2.959	2.959	(0.577)	374963	100.000	97.90
15	Iodomethane	142	2.740	2.740	(0.534)	215220	200.000	204.08
16	Acrylonitrile	53	3.380	3.380	(0.659)	84159	200.000	196.03
17	Methylene Chloride	84	3.091	3.091	(0.602)	143145	100.000	98.25
18	Methyl tert-butyl ether	73	3.380	3.380	(0.659)	325589	100.000	95.48
19	Carbon Disulfide	76	2.795	2.795	(0.545)	780378	200.000	193.09

20 trans-1,2-Dichloroethene	96	3.374	3.374 (0.657)	128582	100.000	93.94
21 Vinyl Acetate	43	4.660	4.660 (0.908)	137107	200.000	196.75

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061210.D Page 2
Report Date: 22-Jun-2024 12:21

			QUANT SIG					AMOUNTS	
								CAL-AMT	ON-COL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
	22	1,1-Dichloroethane	63	3.863	3.863	(0.753)	270479	100.000	97.97
	23	Chloroprene	53	3.962	3.962	(0.772)	234087	100.000	97.52
	24	2-Butanone	43	4.589	4.589	(0.894)	109808	200.000	190.92
	25	Methacrylonitrile	41	2.149	2.149	(0.419)	196612	100.000	93.16(M)
	26	2,2-Dichloropropane	77	4.531	4.531	(0.883)	235614	100.000	97.62
	27	cis-1,2-Dichloroethene	96	4.544	4.544	(0.885)	148465	100.000	97.74
	28	Chloroform	83	4.904	4.904	(0.956)	266384	100.000	98.38
	29	Bromochloromethane	128	4.808	4.808	(0.937)	72145	100.000	99.94
$	30	Dibromofluoromethane	113	5.075	5.075	(0.989)	130301	100.000	95.55
	31	1,1,1-Trichloroethane	97	5.072	5.072	(0.988)	235912	100.000	97.78
	32	1,1-Dichloropropene	75	5.245	5.245	(0.896)	202600	100.000	97.46
	33	1,2-Dichloroethane	62	5.493	5.493	(0.938)	223991	100.000	98.72
	34	Carbon Tetrachloride	117	5.232	5.232	(0.894)	208133	100.000	97.72
$	35	1,2-Dichloroethane-d4	65	5.419	5.419	(1.056)	172280	100.000	96.51
*	36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	208785	50.0000	
	37	Benzene	78	5.457	5.457	(0.932)	542298	100.000	98.48
	38	Trichloroethene	130	6.088	6.088	(1.040)	142495	100.000	98.13
	39	Bromodichloromethane	83	6.570	6.570	(1.122)	206546	100.000	97.88
	40	Methyl Methacrylate	41	6.432	6.432	(1.253)	129664	100.000	99.45
	41	2-Chloroethylvinyl ether	63	6.856	6.856	(1.171)	114619	200.000	197.97(AM)
	42	1,2-Dichloropropane	63	6.309	6.309	(1.078)	157219	100.000	98.21
	43	2-Nitropropane	43	6.801	6.801	(1.325)	42166	100.000	93.97
	44	Dibromomethane	93	6.419	6.419	(1.097)	88641	100.000	97.79
	45	4-Methyl-2-Pentanone	43	7.129	7.129	(0.842)	274193	200.000	194.93
	46	cis-1,3-Dichloropropene	75	6.978	6.978	(1.192)	227034	100.000	95.99
*	47	Chlorobenzene-d5	117	8.467	8.467	(1.000)	195643	50.0000	
$	48	Toluene-d8	98	7.207	7.207	(0.851)	476337	100.000	98.77
	49	Ethyl Methacrylate	69	8.043	8.043	(1.374)	147894	100.000	101.75
	50	Toluene	91	7.264	7.264	(0.858)	569573	100.000	100.15
	51	trans-1,3-Dichloropropene	75	6.978	6.978	(1.192)	227034	100.000	95.99
	52	2-Hexanone	43	7.862	7.862	(0.929)	196592	200.000	200.42
	53	1,1,2-Trichloroethane	83	7.641	7.641	(0.902)	108669	100.000	99.63
	54	1,3-Dichloropropane	76	7.782	7.782	(0.919)	226498	100.000	99.54
	55	Dibromochloromethane	129	7.978	7.978	(0.942)	152411	100.000	98.60
	56	Tetrachloroethene	164	7.740	7.740	(0.914)	112904	100.000	101.29
	57	1,2-Dibromoethane	107	8.071	8.071	(0.953)	101409	100.000	96.55
	58	1-Chlorohexane	55	8.470	8.470	(1.447)	134896	100.000	99.17
	59	Chlorobenzene	112	8.493	8.493	(1.003)	370792	100.000	99.53
	60	1,1,1,2-Tetrachloroethane	131	8.563	8.563	(1.011)	137821	100.000	98.11
	61	Ethylbenzene	106	8.586	8.586	(1.014)	193263	100.000	99.78
	62	m,p-Xylenes	106	8.686	8.686	(1.026)	483615	200.000	198.20
	63	o-Xylene	106	9.026	9.026	(1.066)	232496	100.000	99.27
	64	Styrene	104	9.039	9.039	(1.068)	392368	100.000	98.88
	66	Bromoform	173	9.206	9.206	(1.087)	95800	100.000	97.40
	67	Isopropylbenzene	105	9.338	9.338	(1.103)	592971	100.000	99.56
	68	1,1,2,2-Tetrachloroethane	83	9.608	9.608	(0.919)	169960	100.000	99.31
$	69	4-Bromofluorobenzene	95	9.477	9.477	(1.119)	184164	100.000	97.71
*	70	1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	102816	50.0000	
	71	1,2,3-Trichloropropane	75	9.650	9.650	(0.923)	182982	100.000	98.46
	72	trans-1,4-Dichloro-2-butene	53	9.660	9.660	(1.141)	38646	100.000	96.72
	73	n-Propylbenzene	91	9.689	9.689	(0.927)	733028	100.000	99.78
	74	Bromobenzene	156	9.605	9.605	(0.919)	161244	100.000	99.14

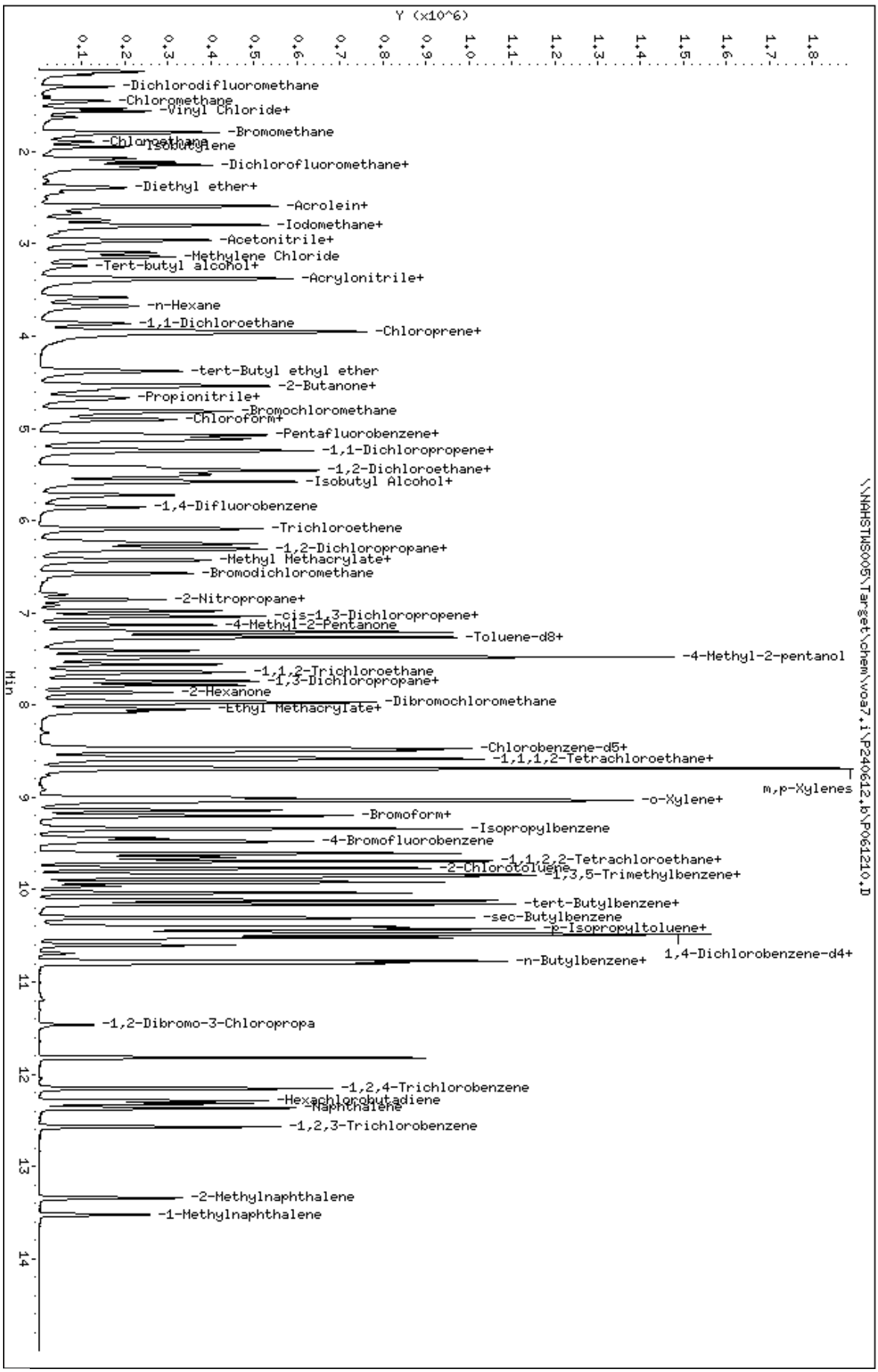
75	1,3,5-Trimethylbenzene	105	9.840	9.840 (0.941)	513912	100.000	98.74
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	450703	100.000	99.75

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
77	4-Chlorotoluene	91	9.859	9.859	(0.943)	528982	100.000	99.91
78	tert-Butylbenzene	119	10.116	10.116	(0.967)	434310	100.000	100.10
79	1,2,4-Trimethylbenzene	105	10.158	10.158	(0.971)	518063	100.000	99.40
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	603134	100.000	99.87
82	p-Isopropyltoluene	119	10.425	10.425	(0.997)	531568	100.000	90.74
83	1,3-Dichlorobenzene	146	10.403	10.403	(0.995)	293977	100.000	99.66
84	1,4-Dichlorobenzene	146	10.480	10.480	(1.002)	304950	100.000	100.07
87	n-Butylbenzene	91	10.772	10.772	(1.030)	491606	100.000	92.60
88	1,2-Dichlorobenzene	146	10.798	10.798	(1.033)	287218	100.000	100.25
89	1,2-Dibromo-3-Chloropropane	75	11.464	11.464	(1.096)	28279	100.000	92.83
90	1,2,4-Trichlorobenzene	180	12.155	12.155	(1.162)	182539	100.000	100.07
91	Hexachlorobutadiene	225	12.287	12.287	(1.175)	88584	100.000	105.96
92	Naphthalene	128	12.367	12.367	(1.183)	404214	100.000	100.56
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	145097	100.000	99.72(M)
146	Methyl acetate	43	2.995	2.995	(0.583)	99106	100.000	98.73
138	Freon TF	101	2.593	2.593	(0.505)	128860	100.000	97.61
139	Diethyl ether	59	2.377	2.377	(0.463)	84057	100.000	96.65
140	1,3-Butadiene	54	1.564	1.564	(0.305)	78720	100.000	99.01
141	Cyclohexane	56	5.113	5.113	(0.996)	205871	100.000	98.04
147	Methylcyclohexane	83	6.252	6.252	(1.068)	197270	100.000	95.91
132	n-Butanol	56	6.252	6.252	(1.218)	84786	2000.00	1979.30(T)
131	Methyl Acrylate	55	4.689	4.689	(0.914)	128500	100.000	96.67
133	Ethyl Acrylate	55	6.252	6.252	(1.218)	339601	100.000	93.73
136	n-Hexane	57	3.676	3.676	(0.716)	143496	100.000	96.40
142	Tetrahydrofuran	42	4.863	4.863	(0.947)	43971	200.000	193.09
148	Tert-butyl alcohol	59	3.239	3.239	(0.631)	166587	2000.00	1924.12
149	Isopropyl alcohol	45	2.818	2.818	(0.549)	152531	2000.00	1878.10
151	4-Methyl-2-pentanol	45	7.477	7.477	(0.883)	740664	2000.00	1881.36
166	1,2,3-Trimethylbenzene	105	10.518	10.518	(1.006)	455398	100.000	99.08
167	Ethanol	45	2.319	2.319	(0.452)	26045	2000.00	2052.48
172	tert-Butyl formate	59	3.239	3.239	(0.631)	166587	200.000	192.45
173	3,3-Dimethyl-1-butanol	57	8.043	8.043	(0.950)	199514	2000.00	2018.53
174	tert-Amyl methyl ether	73	5.580	5.580	(1.087)	344051	100.000	98.03
175	tert-Butyl ethyl ether	59	4.380	4.380	(0.853)	378160	100.000	98.88
157	2-Methylnaphthalene	142	13.341	13.341	(1.276)	149837	100.000	96.18
156	Diisopropyl ether	45	3.949	3.949	(0.769)	445729	100.000	97.07
171	1-Methylnaphthalene	142	13.525	13.525	(1.293)	120423	100.000	95.59
130	Ethyl Acetate	43	3.946	3.946	(0.769)	811897	100.000	93.92
176	tert-Amyl alcohol	59	5.512	5.512	(1.074)	157877	2000.00	1889.44(A)
160	Epichlorohydrin	57	6.914	6.914	(1.181)	31938	400.000	392.91
161	Butyl acrylate	55	8.997	8.997	(1.063)	316497	100.000	98.17
182	Isobutylene	56	1.950	1.950	(0.380)	18786	100.000	99.15(AM)
183	Isopropyl Acetate	43	5.573	5.573	(0.952)	394187	100.000	99.42(A)
184	n-Amyl acetate	43	9.194	9.194	(1.086)	297368	100.000	95.84(A)
185	Acetaldehyde	44	1.628	1.628	(0.317)	102104	400.000	393.52(A)

QC Flag Legend

T - Target compound detected outside RT window.
A - Target compound detected but, quantitated amount exceeded maximum amount.

M - Compound response manually integrated.



Data File: \\NAHSTMS005\Target\chem\voa7.i\P240612.b\P061210.D
Date : 12-JUN-2024 14:23
Client ID: VSTD100
Sample Info: VSTD100
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7.i
Operator: AP
Column diameter: 0.18

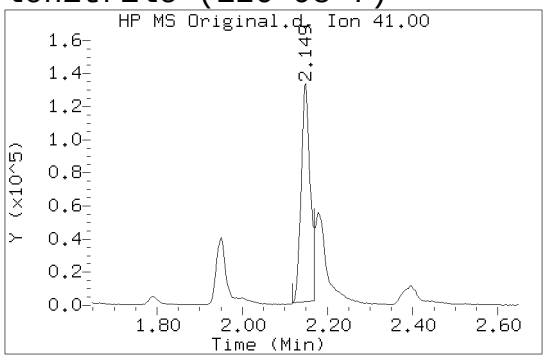
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061210.D
Inj Date : 12-JUN-2024 14:23
InstruID : voa7.i
LabSampID : VSTD100

Methacrylonitrile (126-98-7)

Reason Code:

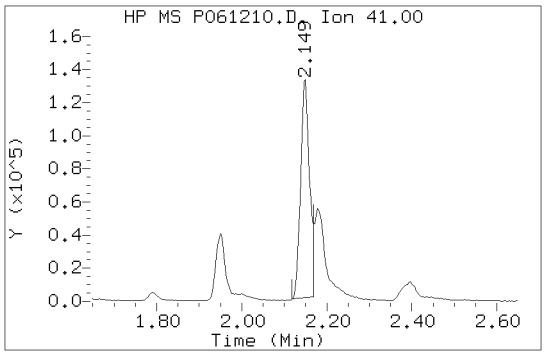
BEFORE

MASS
41
AREA
196612
HEIGHT
131625
22-Jun-2024
12:20
RUCHA
PATEL



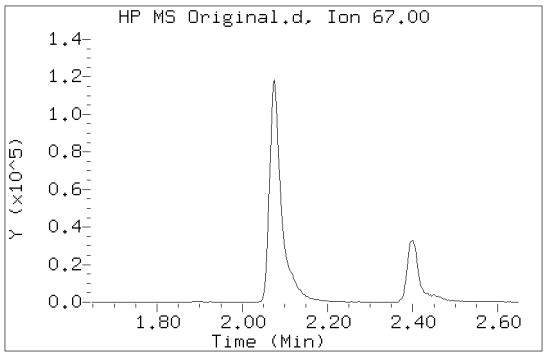
AFTER

MASS
41
AREA
196612
HEIGHT
131625
22-Jun-2024
12:20
RUCHA
PATEL



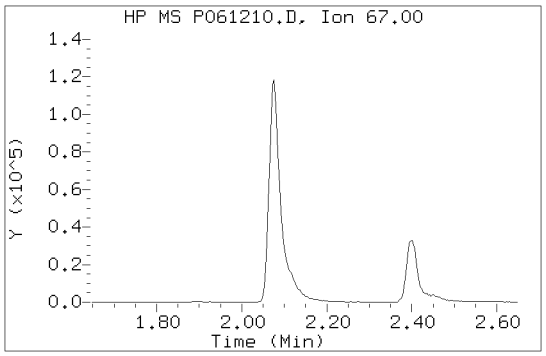
BEFORE

MASS
67
AREA
44269
HEIGHT
21528
22-Jun-2024
12:20
RUCHA
PATEL



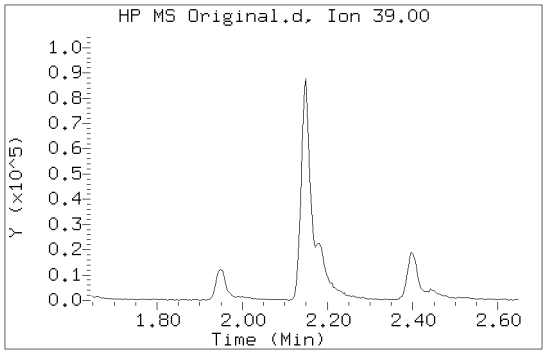
AFTER

MASS
67
AREA
44269
HEIGHT
21528
22-Jun-2024
12:20
RUCHA
PATEL



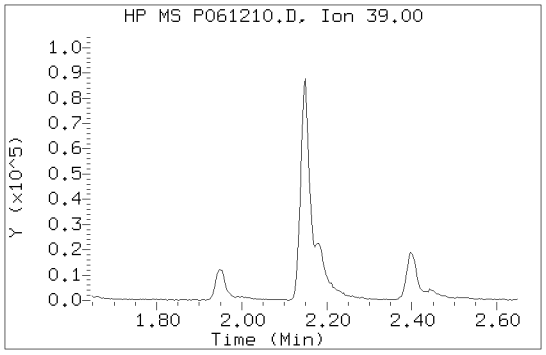
BEFORE

MASS
39
AREA
28830
HEIGHT
11017
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
39
AREA
28830
HEIGHT
11017
22-Jun-2024
12:20
RUCHA
PATEL

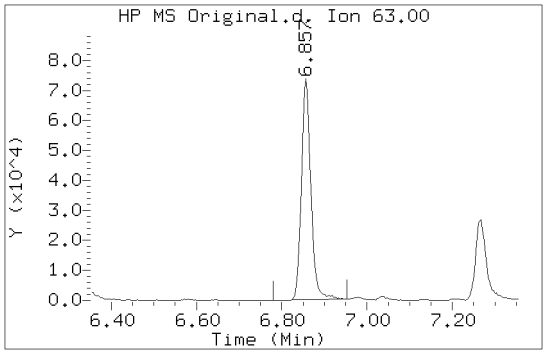


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

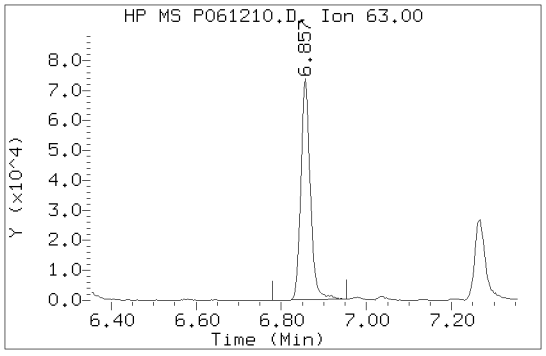
BEFORE

MASS
63
AREA
114619
HEIGHT
73755
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
63
AREA
114619
HEIGHT
73755
22-Jun-2024
12:20
RUCHA
PATEL



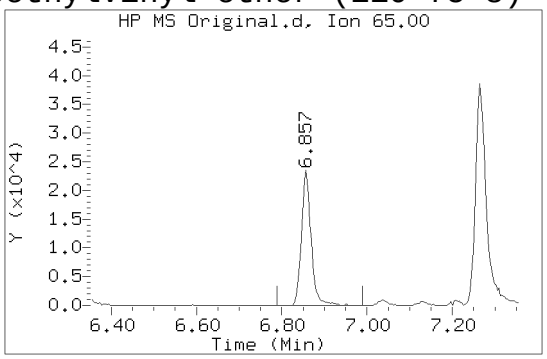
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061210.D
Inj Date : 12-JUN-2024 14:23
InstruID : voa7.i
LabSampID : VSTD100

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

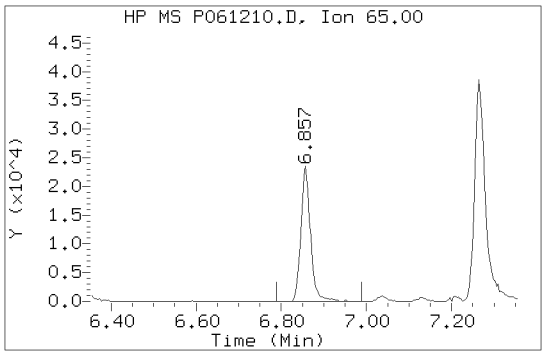
BEFORE

MASS
65
AREA
37095
HEIGHT
23528
22-Jun-2024
12:20
RUCHA
PATEL



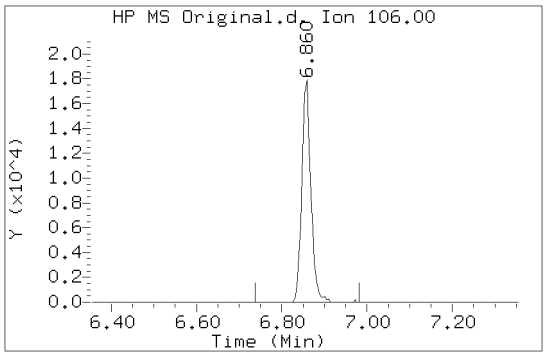
AFTER

MASS
65
AREA
37095
HEIGHT
23528
22-Jun-2024
12:20
RUCHA
PATEL



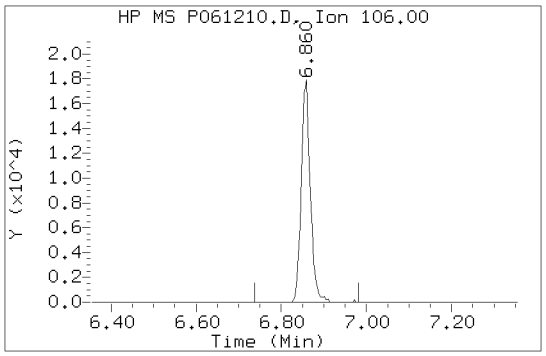
BEFORE

MASS
106
AREA
26891
HEIGHT
17912
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
106
AREA
26891
HEIGHT
17912
22-Jun-2024
12:20
RUCHA
PATEL

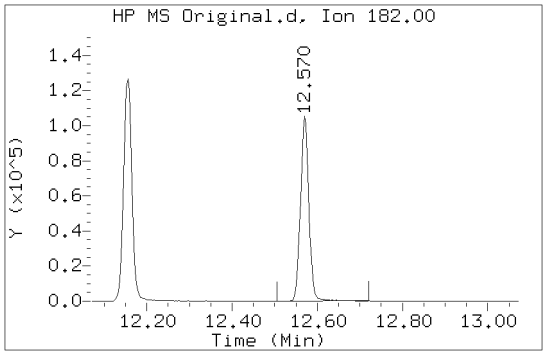


1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

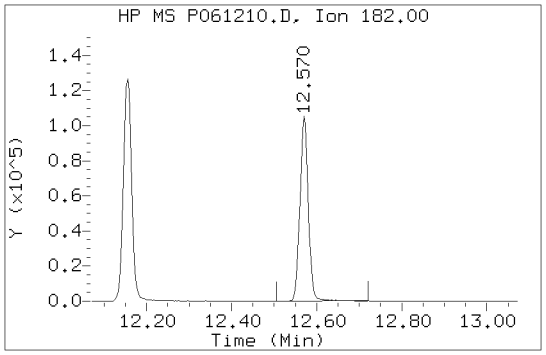
BEFORE

MASS
182
AREA
145097
HEIGHT
105308
22-Jun-2024
12:20
RUCHA
PATEL



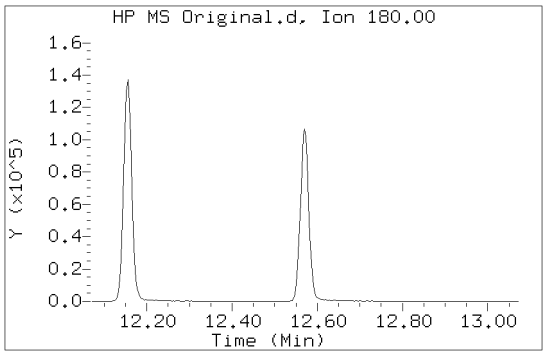
AFTER

MASS
182
AREA
145097
HEIGHT
105308
22-Jun-2024
12:20
RUCHA
PATEL



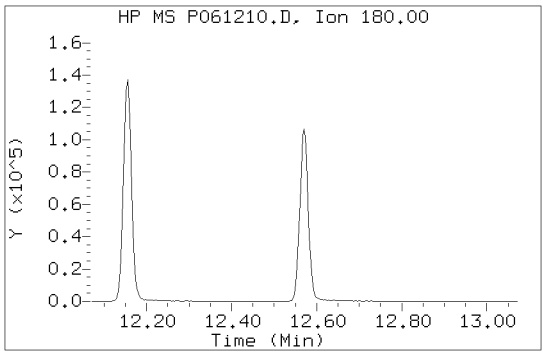
BEFORE

MASS
180
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
180
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



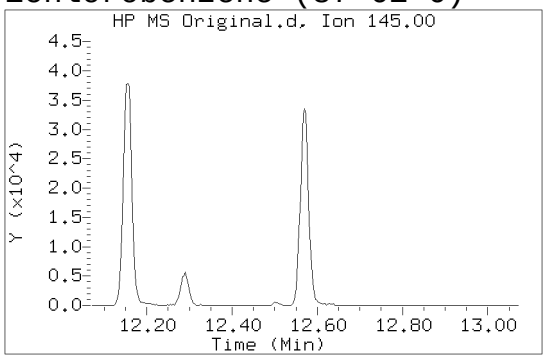
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061210.D
Inj Date : 12-JUN-2024 14:23
InstruID : voa7.i
LabSampID : VSTD100

1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

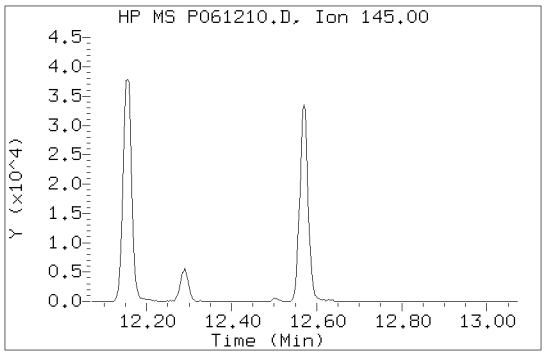
BEFORE

MASS
145
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
145
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL

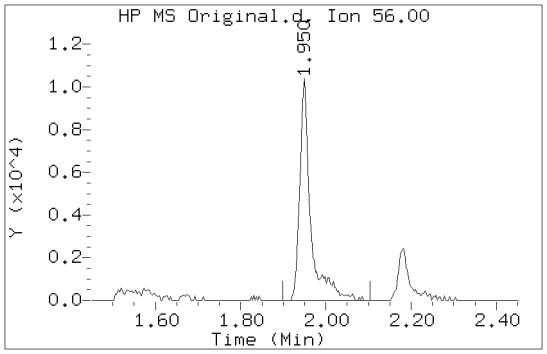


Isobutylene (115-11-7)

Reason Code:

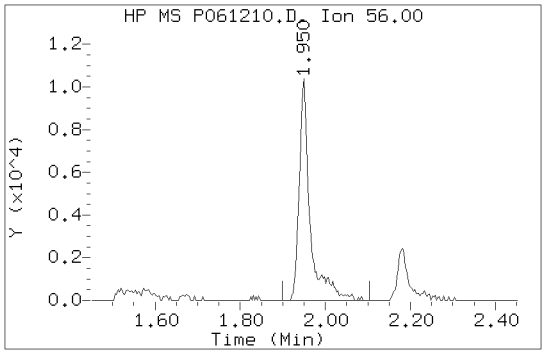
BEFORE

MASS
56
AREA
18786
HEIGHT
10387
22-Jun-2024
12:20
RUCHA
PATEL



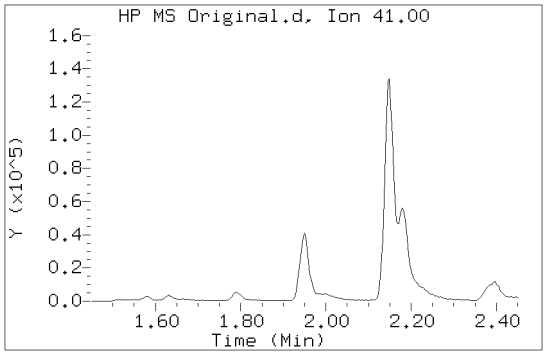
AFTER

MASS
56
AREA
18786
HEIGHT
10387
22-Jun-2024
12:20
RUCHA
PATEL



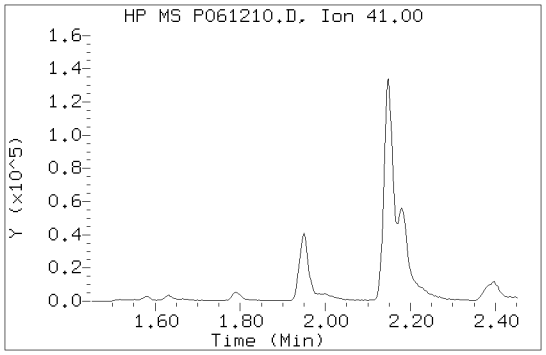
BEFORE

MASS
41
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



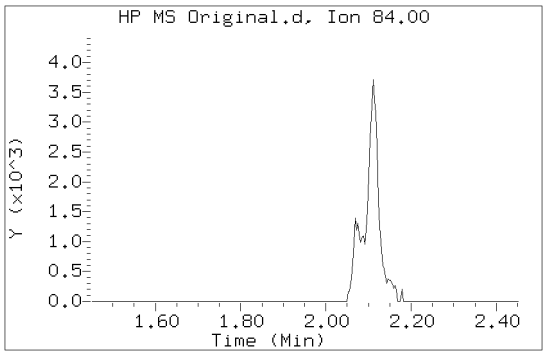
AFTER

MASS
41
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



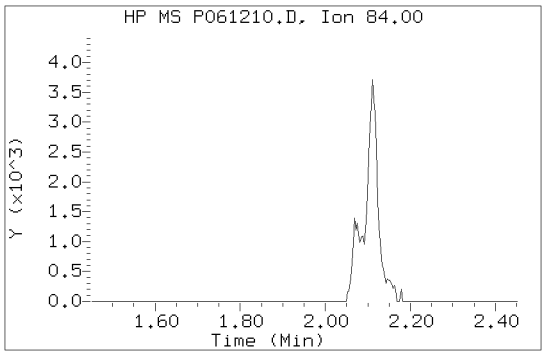
BEFORE

MASS
84
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
84
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061211.D Page 1
Report Date: 22-Jun-2024 12:21

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061211.D
Lab Smp Id: VSTD200
Inj Date : 12-JUN-2024 14:46
Operator : AP   Inst ID: voa7.i
Smp Info : VSTD200
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240612.b\8260W.m
Meth Date : 22-Jun-2024 12:21 voa7.i   Quant Type: ISTD
Cal Date : 12-JUN-2024 14:23   Cal File: P061210.D
Als bottle: 14   Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	5.129	5.129	(1.000)	131273	50.0000	
2	Dichlorodifluoromethane	85	1.294	1.294	(0.252)	270113	200.000	200.54(A)
159	Dichlorofluoromethane	67	2.072	2.072	(0.404)	492905	200.000	181.78(A)
3	Chloromethane	50	1.451	1.451	(0.283)	406492	200.000	200.59(A)
4	Propionitrile	54	4.676	4.676	(0.912)	346124	2000.00	2005.49(A)
5	Vinyl Chloride	62	1.535	1.535	(0.299)	361844	200.000	200.92(A)
6	Bromomethane	94	1.795	1.795	(0.350)	195540	200.000	200.07(A)
7	Chloroethane	64	1.888	1.888	(0.368)	218152	200.000	200.91(A)
8	Trichlorofluoromethane	101	2.110	2.110	(0.411)	482183	200.000	200.90(A)
9	Acrolein	56	2.515	2.515	(0.490)	18902	400.000	399.47
10	Acetone	43	2.670	2.670	(0.521)	167976	400.000	395.72
11	1,1-Dichloroethene	96	2.589	2.589	(0.505)	264150	200.000	208.75(A)
12	Isobutyl Alcohol	43	5.573	5.573	(1.086)	822489	4000.00	4012.97(AM)
13	Acetonitrile	39	2.959	2.959	(0.577)	370823	2000.00	2011.13(A)
14	Allyl Chloride	41	2.959	2.959	(0.577)	786860	200.000	200.64(A)
15	Iodomethane	142	2.740	2.740	(0.534)	520851	400.000	399.42
16	Acrylonitrile	53	3.380	3.380	(0.659)	176557	400.000	401.26(A)
17	Methylene Chloride	84	3.094	3.094	(0.603)	298034	200.000	200.67
18	Methyl tert-butyl ether	73	3.380	3.380	(0.659)	711970	200.000	202.44(A)
19	Carbon Disulfide	76	2.795	2.795	(0.545)	1673748	400.000	403.18(A)

20 trans-1,2-Dichloroethene	96	3.377	3.377 (0.658)	272635	200.000	194.13
21 Vinyl Acetate	43	4.660	4.660 (0.908)	285944	400.000	401.91(A)

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061211.D Page 2
Report Date: 22-Jun-2024 12:21

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
22	1,1-Dichloroethane	63	3.863	3.863	(0.753)	568496	200.000	200.80(A)
23	Chloroprene	53	3.962	3.962	(0.772)	496623	200.000	201.64(AM)
24	2-Butanone	43	4.589	4.589	(0.895)	236840	400.000	404.36(A)
25	Methacrylonitrile	41	2.146	2.146	(0.418)	443834	200.000	203.60(M)
26	2,2-Dichloropropane	77	4.535	4.535	(0.884)	499422	200.000	201.14(A)
27	cis-1,2-Dichloroethene	96	4.544	4.544	(0.886)	313493	200.000	201.12(A)
28	Chloroform	83	4.904	4.904	(0.956)	556477	200.000	200.59(A)
29	Bromochloromethane	128	4.808	4.808	(0.937)	147403	200.000	199.59
$ 30	Dibromofluoromethane	113	5.072	5.072	(0.989)	281674	200.000	201.80(A)
31	1,1,1-Trichloroethane	97	5.072	5.072	(0.989)	498996	200.000	201.05(A)
32	1,1-Dichloropropene	75	5.245	5.245	(0.896)	430683	200.000	201.06(A)
33	1,2-Dichloroethane	62	5.493	5.493	(0.938)	466569	200.000	200.27(A)
34	Carbon Tetrachloride	117	5.236	5.236	(0.895)	442439	200.000	201.19(A)
$ 35	1,2-Dichloroethane-d4	65	5.416	5.416	(1.056)	367451	200.000	201.46(A)
* 36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	214828	50.0000	
37	Benzene	78	5.457	5.457	(0.932)	1134370	200.000	200.54(A)
38	Trichloroethene	130	6.088	6.088	(1.040)	299845	200.000	200.68(A)
39	Bromodichloromethane	83	6.570	6.570	(1.122)	436473	200.000	200.98(A)
40	Methyl Methacrylate	41	6.435	6.435	(1.254)	265056	200.000	199.43
41	2-Chloroethylvinyl ether	63	6.856	6.856	(1.171)	265387	400.000	400.24(AM)
42	1,2-Dichloropropane	63	6.309	6.309	(1.078)	330429	200.000	200.77(A)
43	2-Nitropropane	43	6.801	6.801	(1.326)	93821	200.000	203.09(A)
44	Dibromomethane	93	6.419	6.419	(1.097)	187225	200.000	200.90(A)
45	4-Methyl-2-Pentanone	43	7.129	7.129	(0.842)	587956	400.000	400.63(A)
46	cis-1,3-Dichloropropene	75	6.978	6.978	(1.192)	494031	200.000	202.15(A)
* 47	Chlorobenzene-d5	117	8.467	8.467	(1.000)	205402	50.0000	
$ 48	Toluene-d8	98	7.207	7.207	(0.851)	1005869	200.000	199.98
49	Ethyl Methacrylate	69	8.043	8.043	(1.374)	347139	200.000	199.75
50	Toluene	91	7.264	7.264	(0.858)	1184335	200.000	199.19
51	trans-1,3-Dichloropropene	75	6.978	6.978	(1.192)	494031	200.000	202.15(A)
52	2-Hexanone	43	7.862	7.862	(0.929)	408580	400.000	398.76
53	1,1,2-Trichloroethane	83	7.641	7.641	(0.902)	226781	200.000	199.22
54	1,3-Dichloropropane	76	7.782	7.782	(0.919)	473785	200.000	199.39
55	Dibromochloromethane	129	7.978	7.978	(0.942)	324738	200.000	200.32(A)
56	Tetrachloroethene	164	7.737	7.737	(0.914)	232209	200.000	198.81
57	1,2-Dibromoethane	107	8.075	8.075	(0.954)	220504	200.000	201.07(A)
58	1-Chlorohexane	55	8.470	8.470	(1.447)	277125	200.000	199.87
59	Chlorobenzene	112	8.493	8.493	(1.003)	777930	200.000	199.68
60	1,1,1,2-Tetrachloroethane	131	8.567	8.567	(1.012)	295819	200.000	200.61(A)
61	Ethylbenzene	106	8.586	8.586	(1.014)	405032	200.000	199.65
62	m,p-Xylenes	106	8.686	8.686	(1.026)	1021002	400.000	399.69
63	o-Xylene	106	9.026	9.026	(1.066)	489577	200.000	199.77
64	Styrene	104	9.039	9.039	(1.068)	832493	200.000	200.15(A)
66	Bromoform	173	9.206	9.206	(1.087)	207700	200.000	200.96(A)
67	Isopropylbenzene	105	9.341	9.341	(1.103)	1244948	200.000	199.60
68	1,1,2,2-Tetrachloroethane	83	9.612	9.612	(0.919)	357305	200.000	198.98
$ 69	4-Bromofluorobenzene	95	9.477	9.477	(1.119)	392522	200.000	200.53(A)
* 70	1,4-Dichlorobenzene-d4	152	10.460	10.460	(1.000)	108847	50.0000	
71	1,2,3-Trichloropropane	75	9.650	9.650	(0.923)	388904	200.000	199.49
72	trans-1,4-Dichloro-2-butene	53	9.660	9.660	(1.141)	84582	200.000	201.50(A)
73	n-Propylbenzene	91	9.692	9.692	(0.927)	1539134	200.000	198.96
74	Bromobenzene	156	9.605	9.605	(0.918)	340627	200.000	199.28

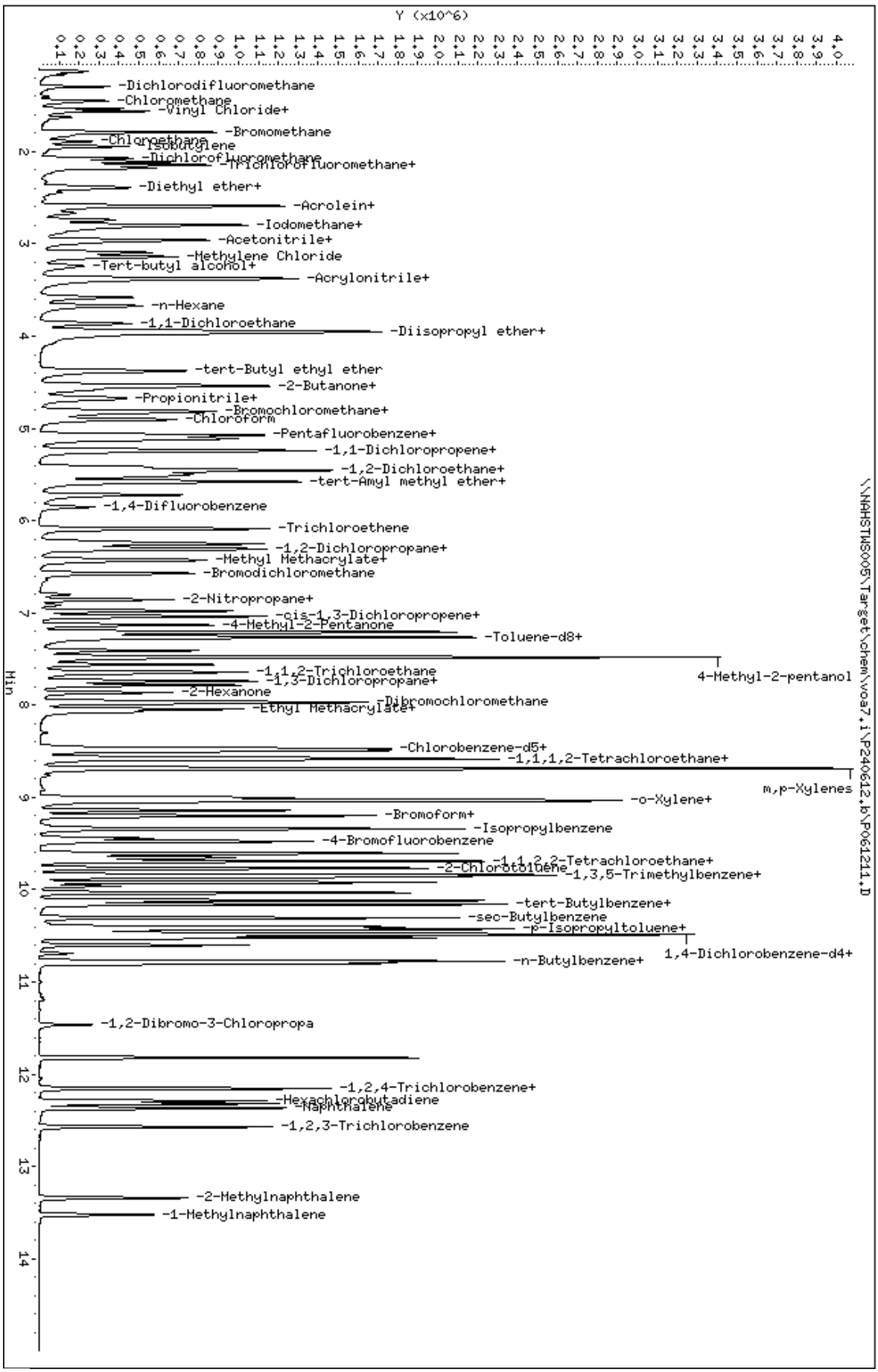
75	1,3,5-Trimethylbenzene	105	9.840	9.840 (0.941)	1097303	200.000	199.91
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	945763	200.000	199.07

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
77	4-Chlorotoluene	91	9.859	9.859	(0.943)	1107997	200.000	198.99
78	tert-Butylbenzene	119	10.116	10.116	(0.967)	908367	200.000	198.92
79	1,2,4-Trimethylbenzene	105	10.158	10.158	(0.971)	1094080	200.000	199.34
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	1265216	200.000	198.87
82	p-Isopropyltoluene	119	10.428	10.428	(0.997)	1118174	200.000	180.30
83	1,3-Dichlorobenzene	146	10.403	10.403	(0.994)	619265	200.000	199.31
84	1,4-Dichlorobenzene	146	10.480	10.480	(1.002)	639034	200.000	199.17
87	n-Butylbenzene	91	10.776	10.776	(1.030)	1024454	200.000	182.29
88	1,2-Dichlorobenzene	146	10.798	10.798	(1.032)	600569	200.000	199.01
89	1,2-Dibromo-3-Chloropropane	75	11.467	11.467	(1.096)	60354	200.000	187.16
90	1,2,4-Trichlorobenzene	180	12.155	12.155	(1.162)	385944	200.000	199.75
91	Hexachlorobutadiene	225	12.290	12.290	(1.175)	189618	200.000	214.24(A)
92	Naphthalene	128	12.367	12.367	(1.182)	848291	200.000	199.36
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	308615	200.000	200.03(AM)
146	Methyl acetate	43	2.991	2.991	(0.583)	205889	200.000	200.71(A)
138	Freon TF	101	2.593	2.593	(0.505)	273013	200.000	200.90(A)
139	Diethyl ether	59	2.380	2.380	(0.464)	180092	200.000	201.42(A)
140	1,3-Butadiene	54	1.564	1.564	(0.305)	164372	200.000	200.63(A)
141	Cyclohexane	56	5.110	5.110	(0.996)	432114	200.000	200.86
147	Methylcyclohexane	83	6.252	6.252	(1.068)	429412	200.000	201.78(A)
132	n-Butanol	56	6.252	6.252	(1.219)	176274	4000.00	4010.10(TA)
131	Methyl Acrylate	55	4.689	4.689	(0.914)	272963	200.000	200.99
133	Ethyl Acrylate	55	6.248	6.248	(1.218)	721879	200.000	194.18
136	n-Hexane	57	3.673	3.673	(0.716)	309832	200.000	201.68(A)
142	Tetrahydrofuran	42	4.859	4.859	(0.947)	94446	400.000	403.45(A)
148	Tert-butyl alcohol	59	3.242	3.242	(0.632)	388459	4000.00	4009.52(A)
149	Isopropyl alcohol	45	2.821	2.821	(0.550)	337246	4000.00	4049.27(A)
151	4-Methyl-2-pentanol	45	7.480	7.480	(0.883)	1681264	4000.00	4063.76(A)
166	1,2,3-Trimethylbenzene	105	10.522	10.522	(1.006)	961261	200.000	198.98
167	Ethanol	45	2.329	2.329	(0.454)	50310	4000.00	3926.22(M)
172	tert-Butyl formate	59	3.242	3.242	(0.632)	388459	400.000	400.94(A)
173	3,3-Dimethyl-1-butanol	57	8.043	8.043	(0.950)	477501	4000.00	3997.51
174	tert-Amyl methyl ether	73	5.580	5.580	(1.088)	773133	200.000	200.24(A)
175	tert-Butyl ethyl ether	59	4.377	4.377	(0.853)	837966	200.000	200.14(A)
157	2-Methylnaphthalene	142	13.341	13.341	(1.275)	339740	200.000	202.54(A)
156	Diisopropyl ether	45	3.949	3.949	(0.770)	948775	200.000	201.17(A)
171	1-Methylnaphthalene	142	13.525	13.525	(1.293)	274483	200.000	202.77(A)
130	Ethyl Acetate	43	3.946	3.946	(0.769)	1804860	200.000	202.90(A)
176	tert-Amyl alcohol	59	5.518	5.518	(1.076)	341276	4000.00	4027.63(AM)
160	Epichlorohydrin	57	6.914	6.914	(1.181)	74228	800.000	800.75(AM)
161	Butyl acrylate	55	8.997	8.997	(1.063)	681083	200.000	200.86(TAM)
182	Isobutylene	56	1.946	1.946	(0.379)	38824	200.000	199.63(AM)
183	Isopropyl Acetate	43	5.573	5.573	(0.952)	811507	200.000	199.91(AM)
184	n-Amyl acetate	43	9.197	9.197	(1.086)	663193	200.000	202.53(AM)
185	Acetaldehyde	44	1.631	1.631	(0.318)	168802	800.000	803.15(AM)

QC Flag Legend

T - Target compound detected outside RT window.
A - Target compound detected but, quantitated amount exceeded maximum amount.

M - Compound response manually integrated.



Data File: \\NAHSTMS005\Target\chem\voa7.i\P240612.b\P061211.D
Date : 12-JUN-2024 14:46
Client ID:
Sample Info: VSTD200
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7.i
Operator: AP
Column diameter: 0.18

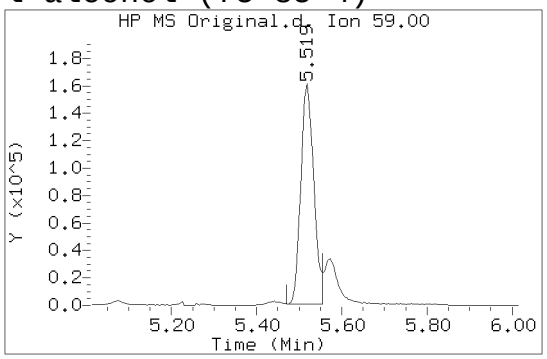
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061211.D
Inj Date : 12-JUN-2024 14:46
InstruID : voa7.i
LabSampID : VSTD200

tert-Amyl alcohol (75-85-4)

Reason Code:

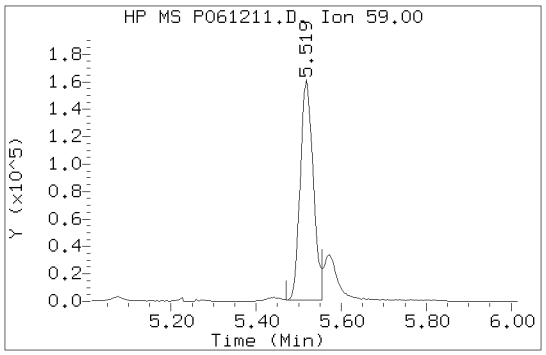
BEFORE

MASS
59
AREA
341276
HEIGHT
160562
22-Jun-2024
12:20
RUCHA
PATEL



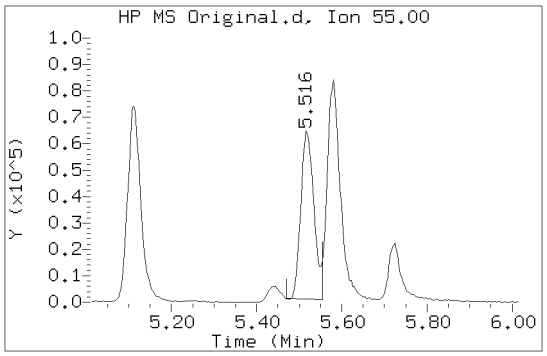
AFTER

MASS
59
AREA
341276
HEIGHT
160562
22-Jun-2024
12:20
RUCHA
PATEL



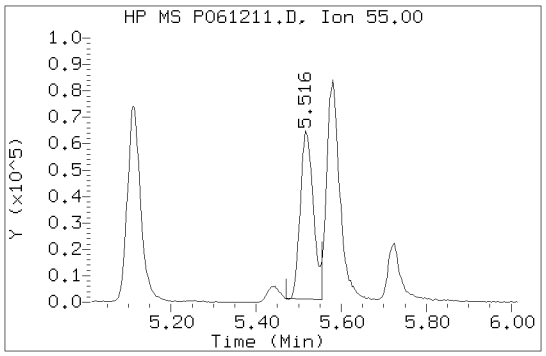
BEFORE

MASS
55
AREA
137939
HEIGHT
63916
22-Jun-2024
12:20
RUCHA
PATEL



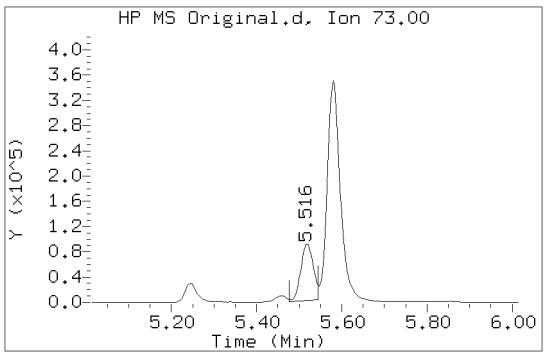
AFTER

MASS
55
AREA
137939
HEIGHT
63916
22-Jun-2024
12:20
RUCHA
PATEL



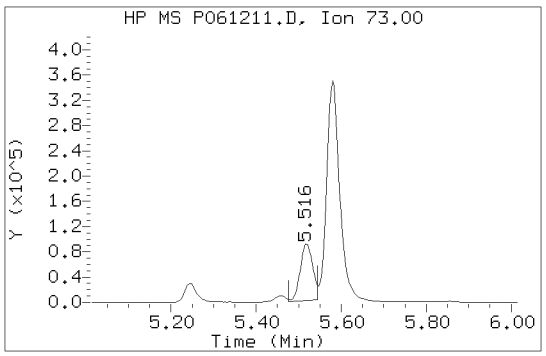
BEFORE

MASS
73
AREA
183774
HEIGHT
89190
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
73
AREA
183774
HEIGHT
89190
22-Jun-2024
12:20
RUCHA
PATEL

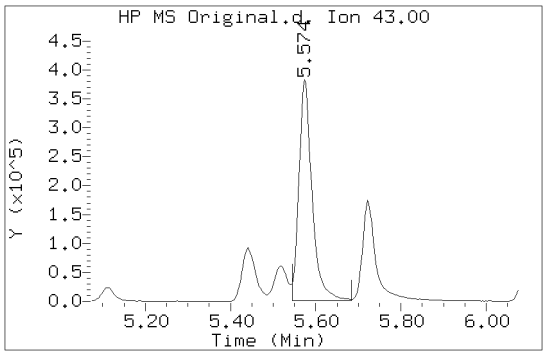


Isobutyl Alcohol (78-83-1)

Reason Code:

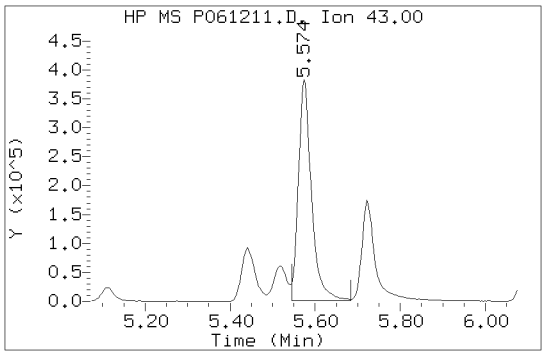
BEFORE

MASS
43
AREA
822489
HEIGHT
381963
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

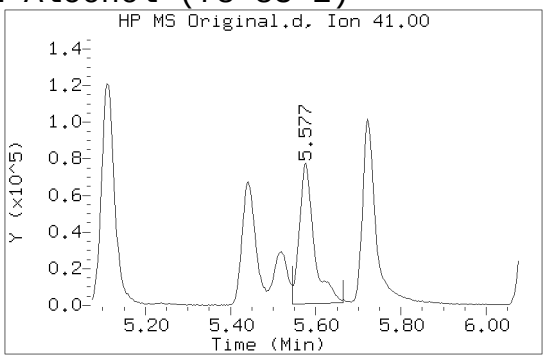
MASS
43
AREA
822489
HEIGHT
381963
22-Jun-2024
12:20
RUCHA
PATEL



Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061211.D
Inj Date : 12-JUN-2024 14:46
InstruID : voa7.i
LabSampID : VSTD200

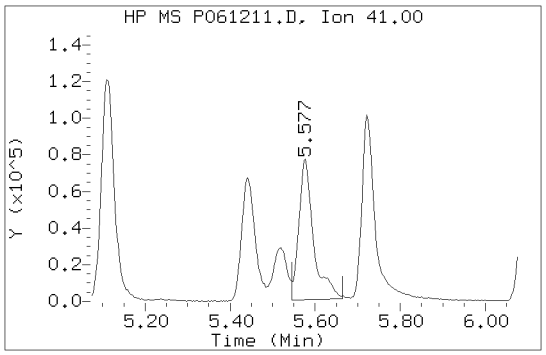
Isobutyl Alcohol (78-83-1)

BEFORE
MASS
41
AREA
186078
HEIGHT
76651
22-Jun-2024
12:20
RUCHA
PATEL

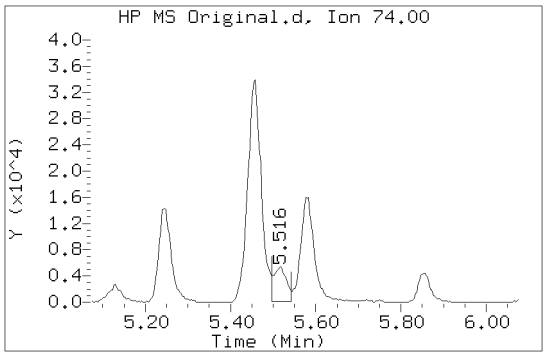


Reason Code:

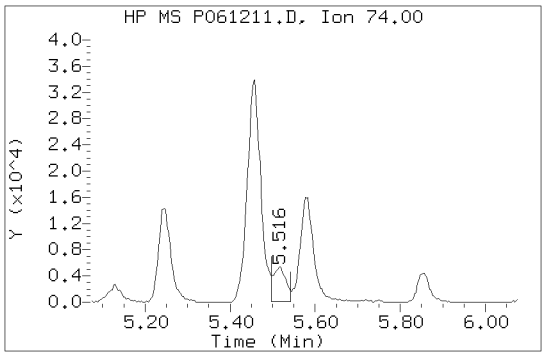
AFTER
MASS
41
AREA
186078
HEIGHT
76651
22-Jun-2024
12:20
RUCHA
PATEL



BEFORE
MASS
74
AREA
11474
HEIGHT
5330
22-Jun-2024
12:20
RUCHA
PATEL

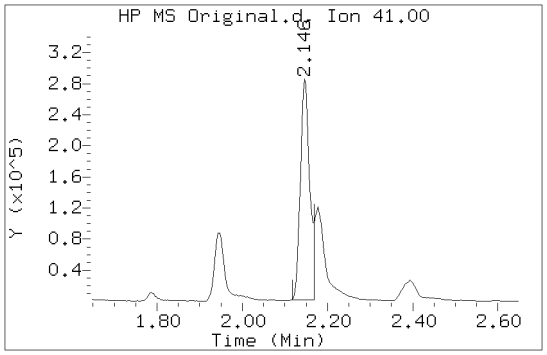


AFTER
MASS
74
AREA
11474
HEIGHT
5330
22-Jun-2024
12:20
RUCHA
PATEL



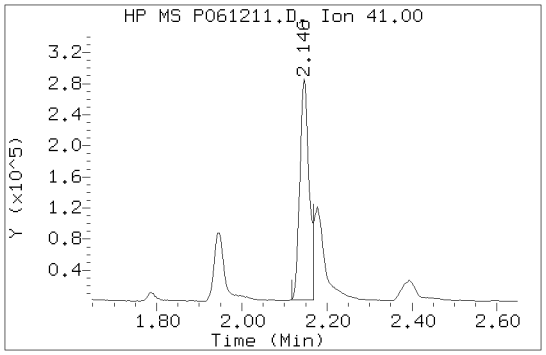
Methacrylonitrile (126-98-7)

BEFORE
MASS
41
AREA
443834
HEIGHT
284609
22-Jun-2024
12:20
RUCHA
PATEL

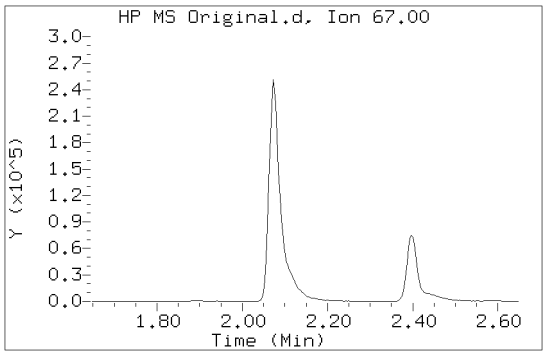


Reason Code:

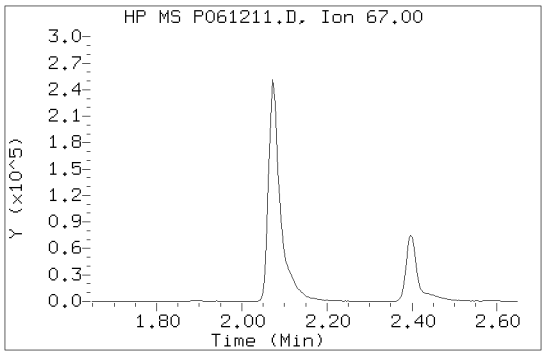
AFTER
MASS
41
AREA
443834
HEIGHT
284609
22-Jun-2024
12:20
RUCHA
PATEL



BEFORE
MASS
67
AREA
92408
HEIGHT
44792
22-Jun-2024
12:20
RUCHA
PATEL



AFTER
MASS
67
AREA
92408
HEIGHT
44792
22-Jun-2024
12:20
RUCHA
PATEL



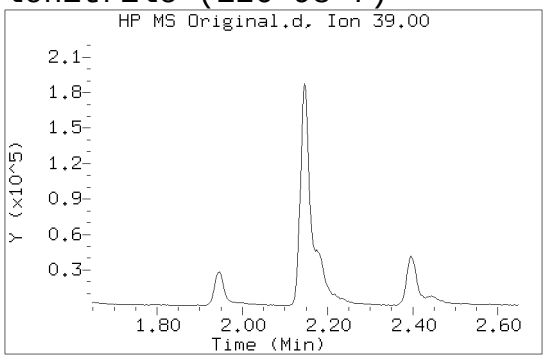
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061211.D
Inj Date : 12-JUN-2024 14:46
InstruID : voa7.i
LabSampID : VSTD200

Methacrylonitrile (126-98-7)

Reason Code:

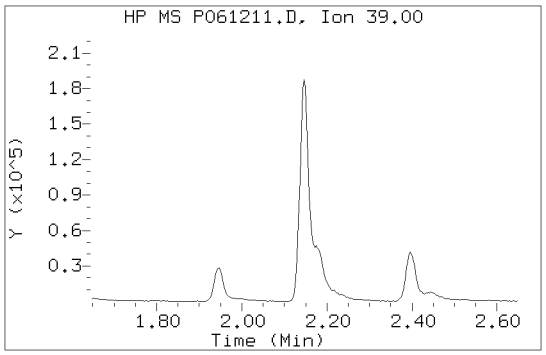
BEFORE

MASS
39
AREA
62944
HEIGHT
23948
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
39
AREA
62944
HEIGHT
23948
22-Jun-2024
12:20
RUCHA
PATEL

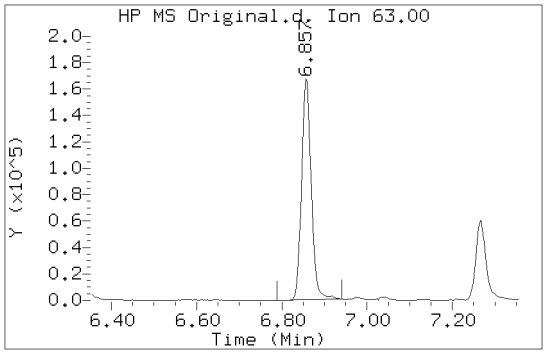


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

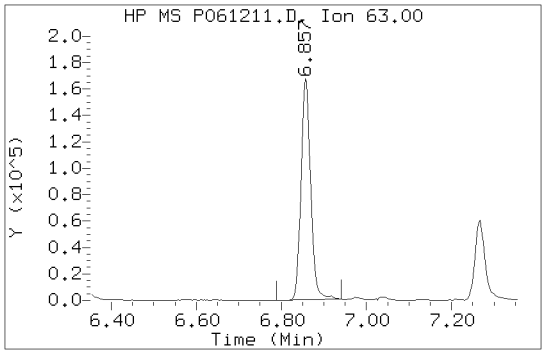
BEFORE

MASS
63
AREA
265387
HEIGHT
167370
22-Jun-2024
12:20
RUCHA
PATEL



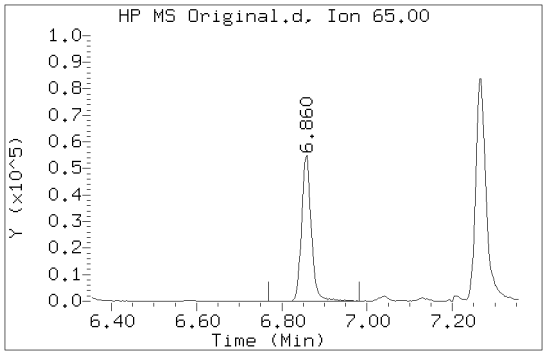
AFTER

MASS
63
AREA
265387
HEIGHT
167370
22-Jun-2024
12:20
RUCHA
PATEL



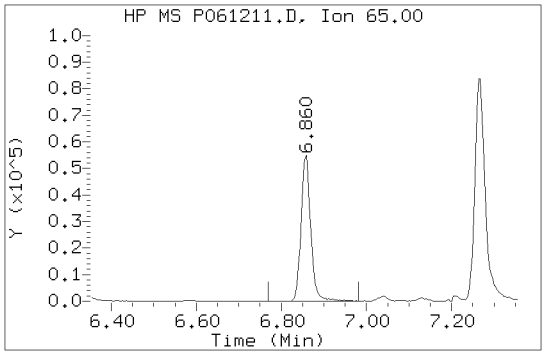
BEFORE

MASS
65
AREA
87920
HEIGHT
54984
22-Jun-2024
12:20
RUCHA
PATEL



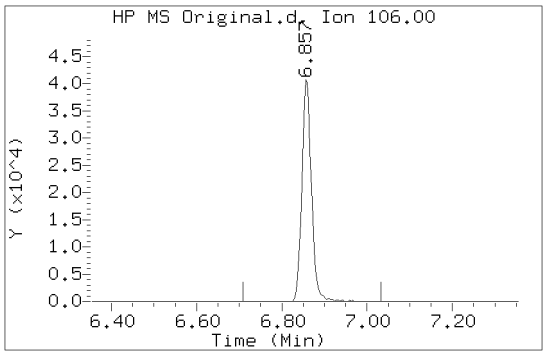
AFTER

MASS
65
AREA
87920
HEIGHT
54984
22-Jun-2024
12:20
RUCHA
PATEL



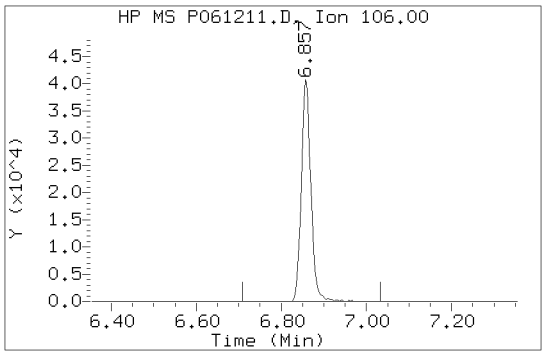
BEFORE

MASS
106
AREA
63953
HEIGHT
40744
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
106
AREA
63953
HEIGHT
40744
22-Jun-2024
12:20
RUCHA
PATEL

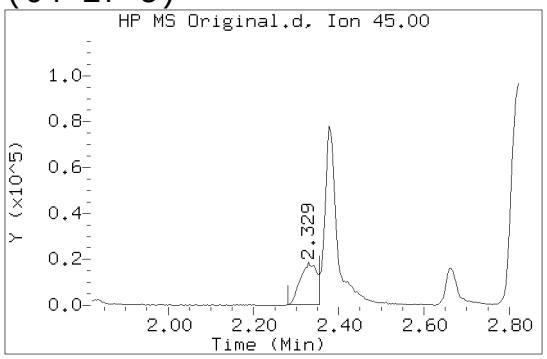


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061211.D
Inj Date : 12-JUN-2024 14:46
InstruID : voa7.i
LabSampID : VSTD200

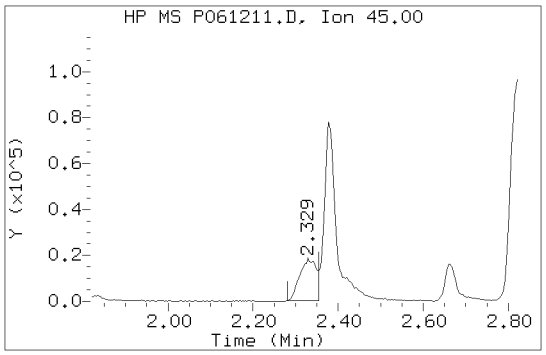
Ethanol (64-17-5)

Reason Code:

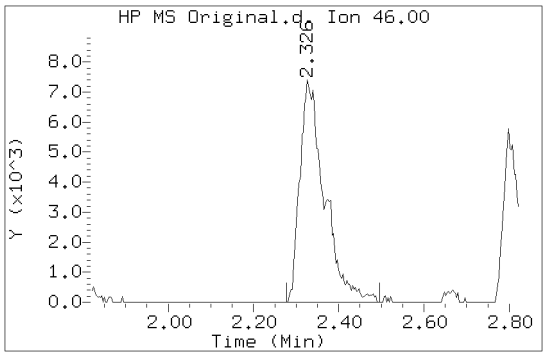
BEFORE
MASS
45
AREA
50310
HEIGHT
18582
22-Jun-2024
12:20
RUCHA
PATEL



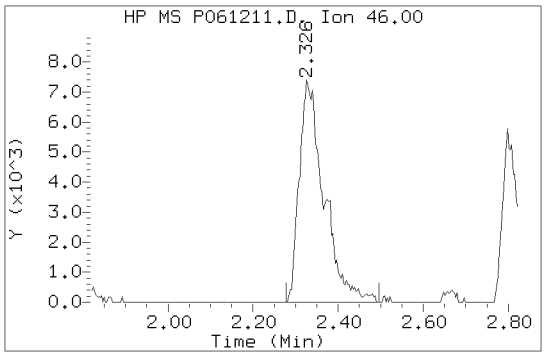
AFTER
MASS
45
AREA
50310
HEIGHT
18582
22-Jun-2024
12:20
RUCHA
PATEL



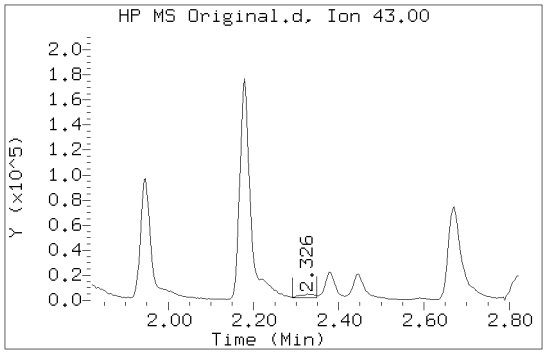
BEFORE
MASS
46
AREA
29785
HEIGHT
7403
22-Jun-2024
12:20
RUCHA
PATEL



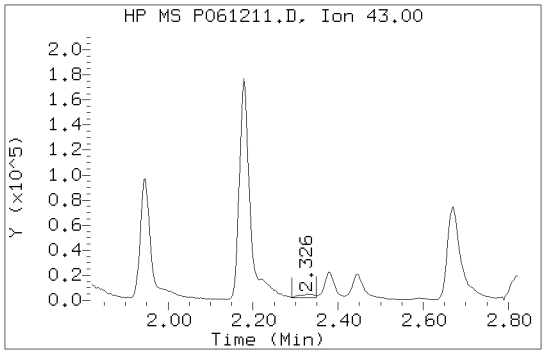
AFTER
MASS
46
AREA
29785
HEIGHT
7403
22-Jun-2024
12:20
RUCHA
PATEL



BEFORE
MASS
43
AREA
8003
HEIGHT
3342
22-Jun-2024
12:20
RUCHA
PATEL



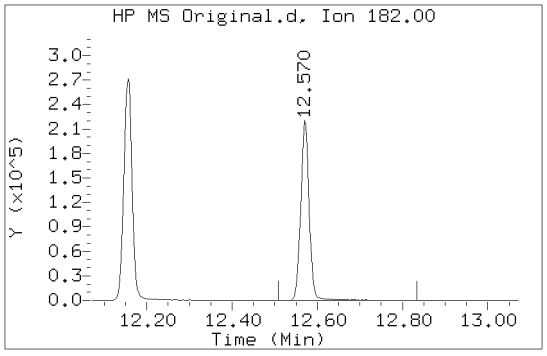
AFTER
MASS
43
AREA
8003
HEIGHT
3342
22-Jun-2024
12:20
RUCHA
PATEL



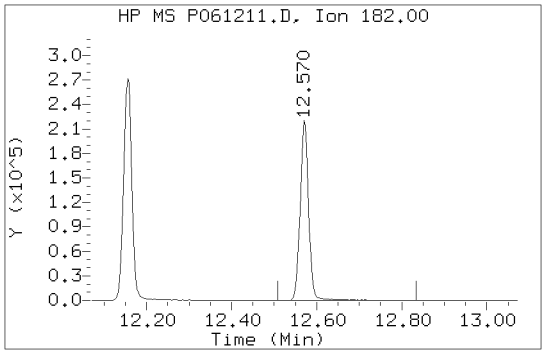
1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

BEFORE
MASS
182
AREA
308615
HEIGHT
220864
22-Jun-2024
12:20
RUCHA
PATEL



AFTER
MASS
182
AREA
308615
HEIGHT
220864
22-Jun-2024
12:20
RUCHA
PATEL

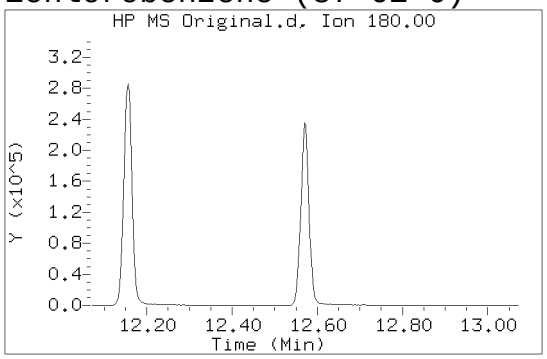


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061211.D
Inj Date : 12-JUN-2024 14:46
InstruID : voa7.i
LabSampID : VSTD200

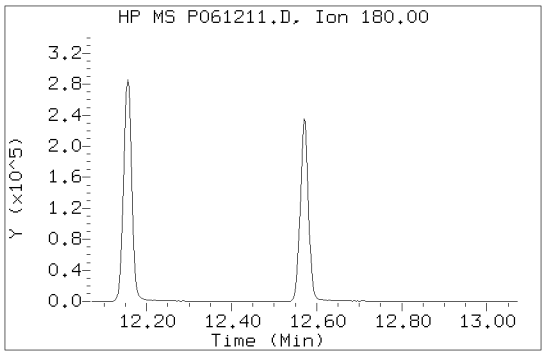
1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

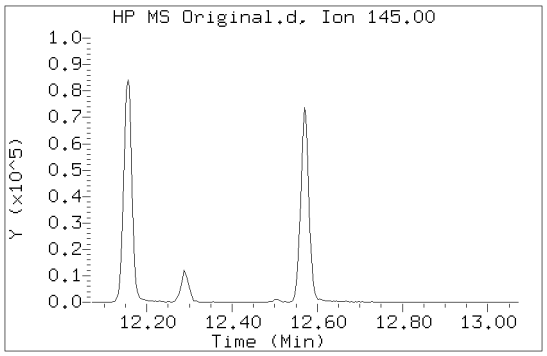
BEFORE
MASS
180
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



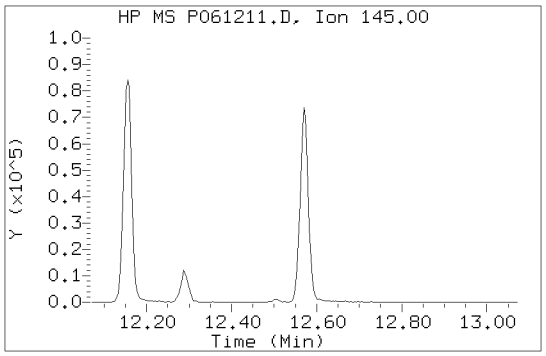
AFTER
MASS
180
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



BEFORE
MASS
145
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



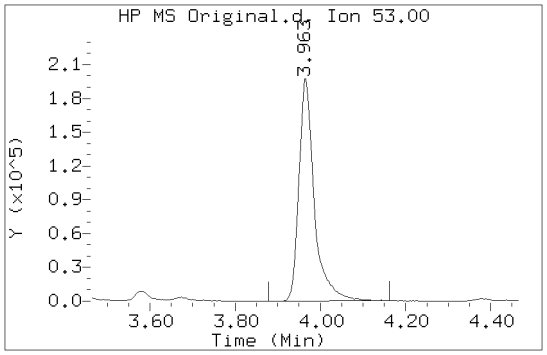
AFTER
MASS
145
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



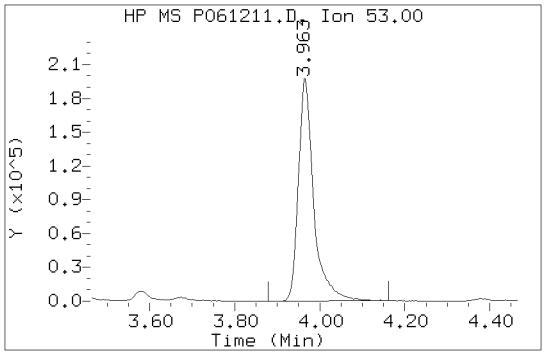
Chloroprene (126-99-8)

Reason Code:

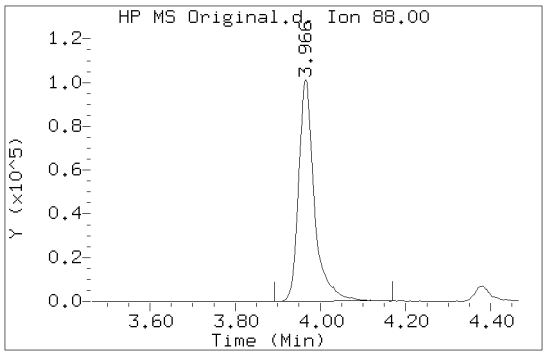
BEFORE
MASS
53
AREA
496623
HEIGHT
197193
22-Jun-2024
12:20
RUCHA
PATEL



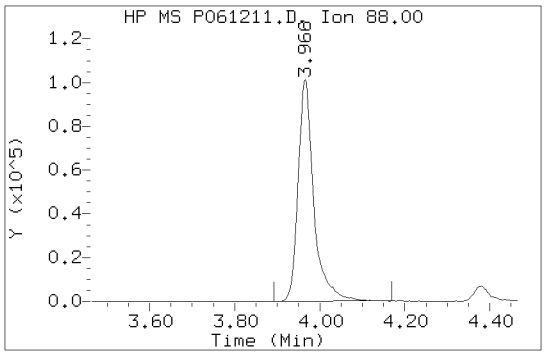
AFTER
MASS
53
AREA
496623
HEIGHT
197193
22-Jun-2024
12:20
RUCHA
PATEL



BEFORE
MASS
88
AREA
260207
HEIGHT
101266
22-Jun-2024
12:20
RUCHA
PATEL



AFTER
MASS
88
AREA
260207
HEIGHT
101266
22-Jun-2024
12:20
RUCHA
PATEL

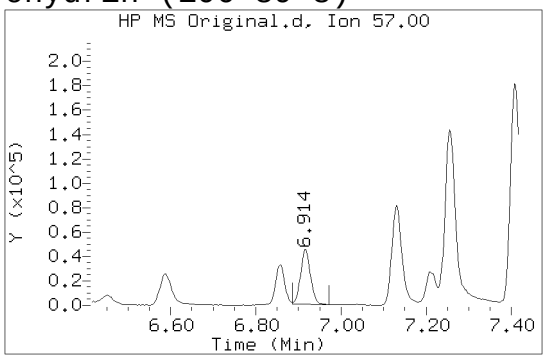


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061211.D
Inj Date : 12-JUN-2024 14:46
InstruID : voa7.i
LabSampID : VSTD200

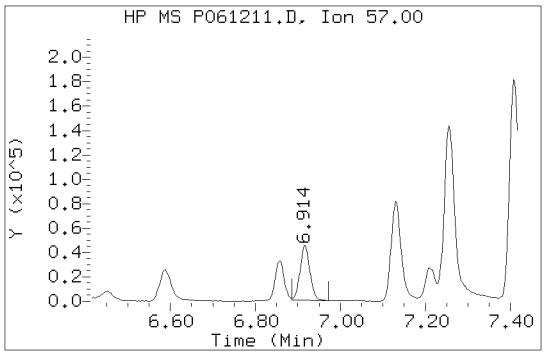
Epichlorohydrin (106-89-8)

Reason Code:

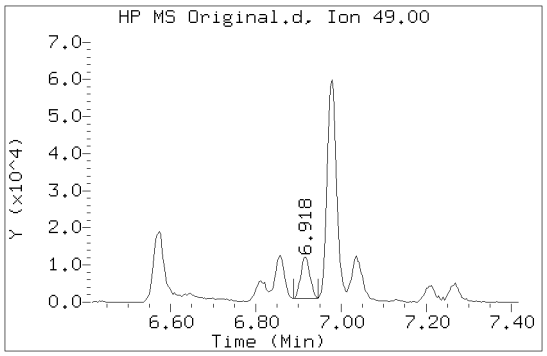
BEFORE
MASS
57
AREA
74228
HEIGHT
44995
22-Jun-2024
12:20
RUCHA
PATEL



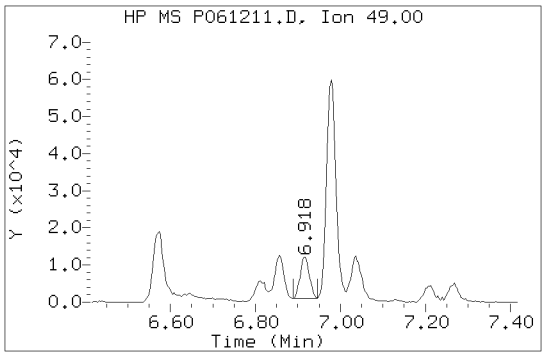
AFTER
MASS
57
AREA
74228
HEIGHT
44995
22-Jun-2024
12:20
RUCHA
PATEL



BEFORE
MASS
49
AREA
16743
HEIGHT
11087
22-Jun-2024
12:20
RUCHA
PATEL



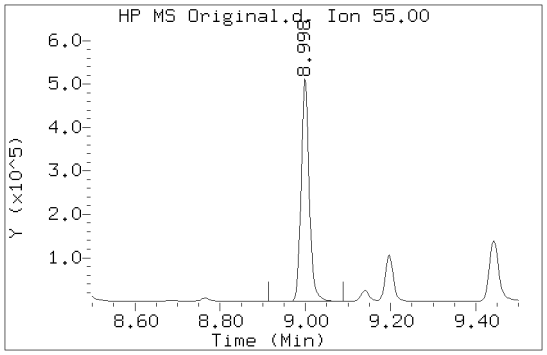
AFTER
MASS
49
AREA
16743
HEIGHT
11087
22-Jun-2024
12:20
RUCHA
PATEL



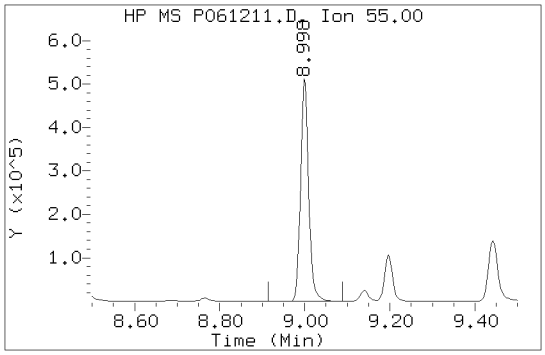
Butyl acrylate (141-32-2)

Reason Code:

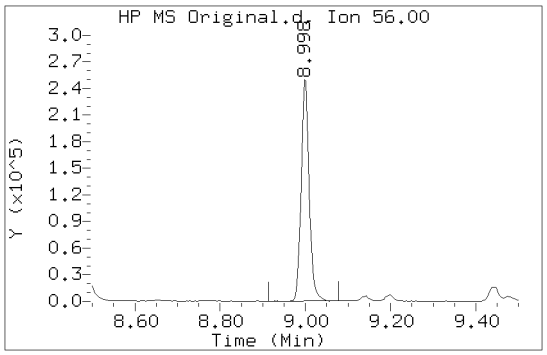
BEFORE
MASS
55
AREA
681083
HEIGHT
511254
22-Jun-2024
12:20
RUCHA
PATEL



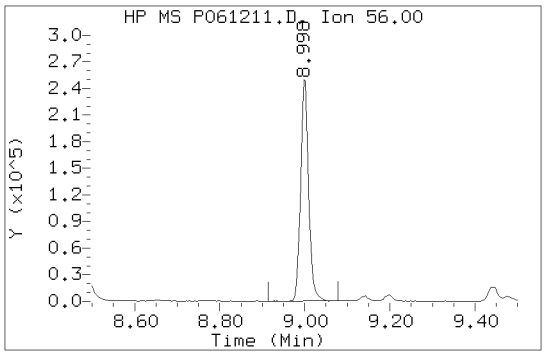
AFTER
MASS
55
AREA
681083
HEIGHT
511254
22-Jun-2024
12:20
RUCHA
PATEL



BEFORE
MASS
56
AREA
330354
HEIGHT
249562
22-Jun-2024
12:20
RUCHA
PATEL



AFTER
MASS
56
AREA
330354
HEIGHT
249562
22-Jun-2024
12:20
RUCHA
PATEL



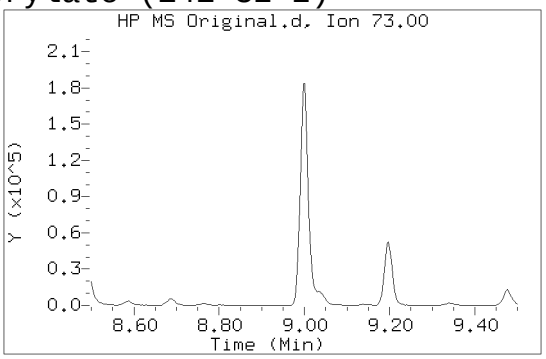
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061211.D
Inj Date : 12-JUN-2024 14:46
InstruID : voa7.i
LabSampID : VSTD200

Butyl acrylate (141-32-2)

Reason Code:

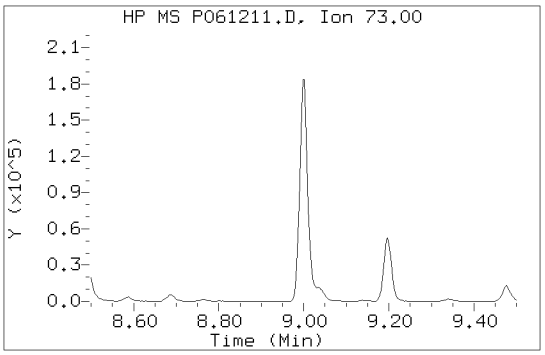
BEFORE

MASS
73
AREA
1130
HEIGHT
1006
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
73
AREA
1130
HEIGHT
1006
22-Jun-2024
12:20
RUCHA
PATEL

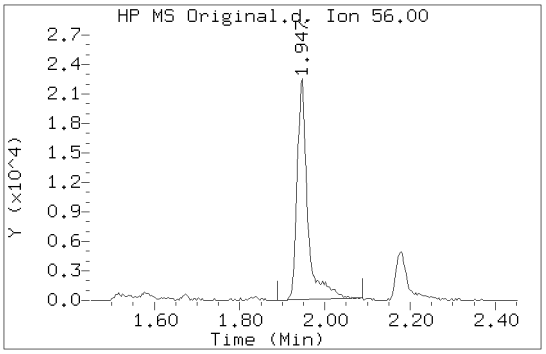


Isobutylene (115-11-7)

Reason Code:

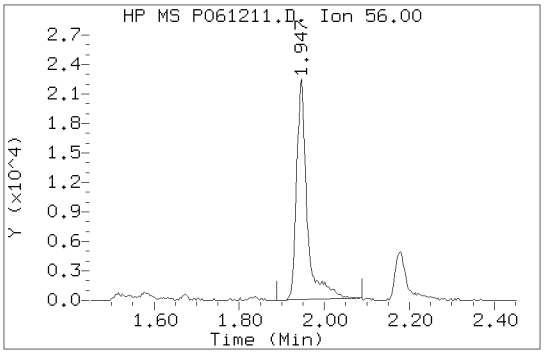
BEFORE

MASS
56
AREA
38824
HEIGHT
22484
22-Jun-2024
12:20
RUCHA
PATEL



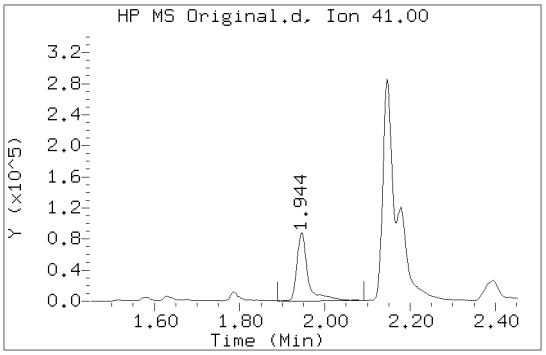
AFTER

MASS
56
AREA
38824
HEIGHT
22484
22-Jun-2024
12:20
RUCHA
PATEL



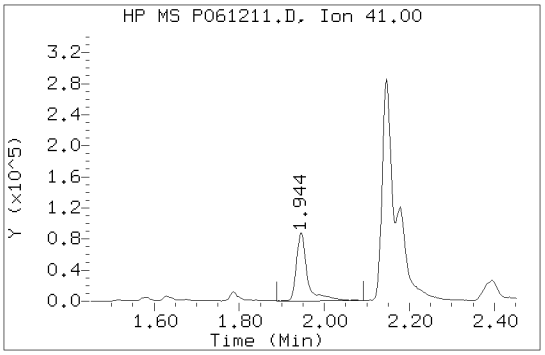
BEFORE

MASS
41
AREA
156677
HEIGHT
87491
22-Jun-2024
12:20
RUCHA
PATEL



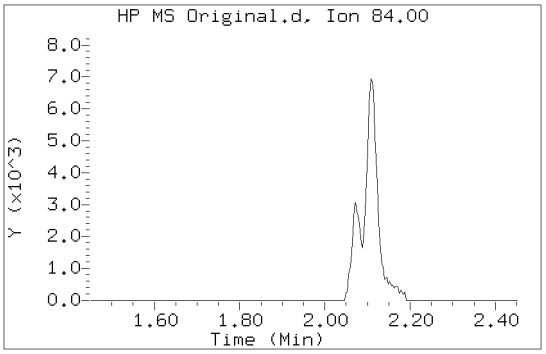
AFTER

MASS
41
AREA
156677
HEIGHT
87491
22-Jun-2024
12:20
RUCHA
PATEL



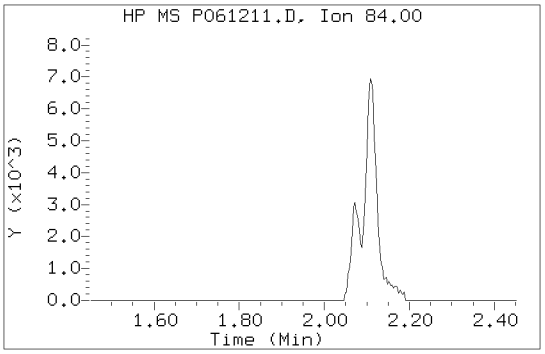
BEFORE

MASS
84
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
84
AREA
0
HEIGHT
0
22-Jun-2024
12:20
RUCHA
PATEL



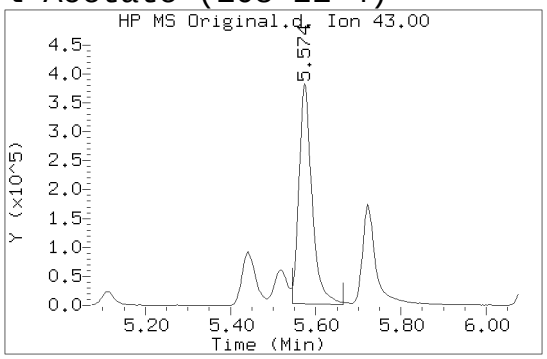
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061211.D
Inj Date : 12-JUN-2024 14:46
InstruID : voa7.i
LabSampID : VSTD200

Isopropyl Acetate (108-21-4)

Reason Code:

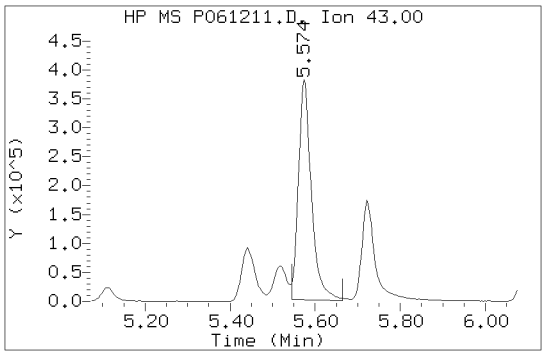
BEFORE

MASS
43
AREA
811507
HEIGHT
380600
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
43
AREA
811507
HEIGHT
380600
22-Jun-2024
12:20
RUCHA
PATEL

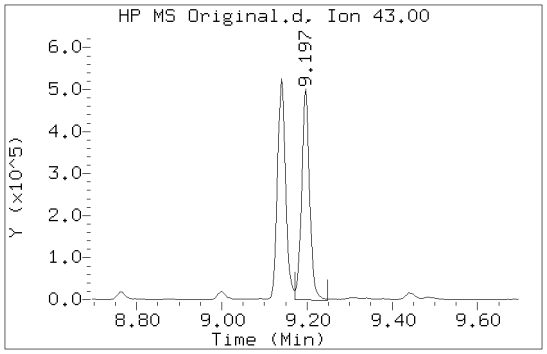


n-Amyl acetate (628-63-7)

Reason Code:

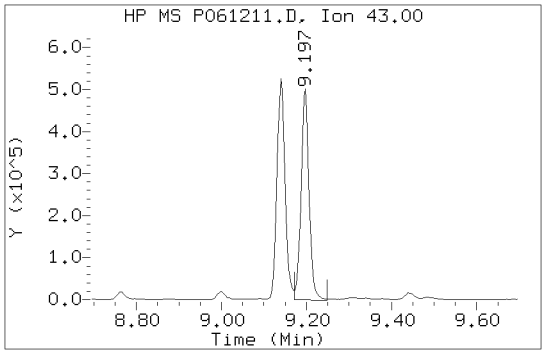
BEFORE

MASS
43
AREA
663193
HEIGHT
501513
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
43
AREA
663193
HEIGHT
501513
22-Jun-2024
12:20
RUCHA
PATEL

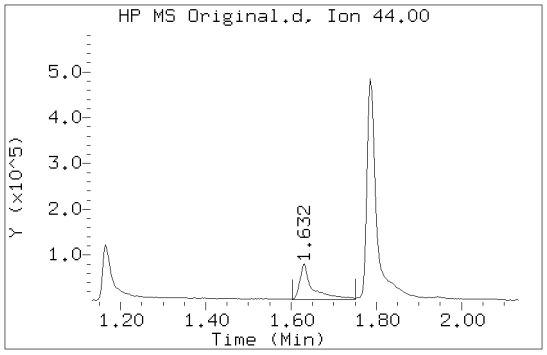


Acetaldehyde (75-07-0)

Reason Code:

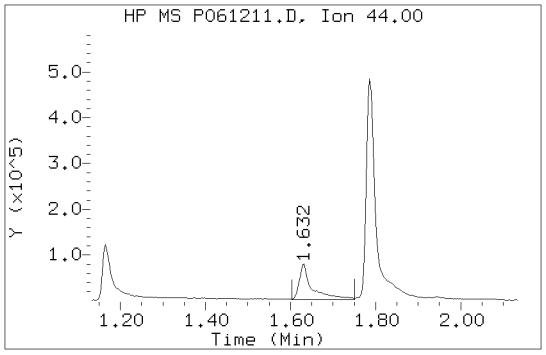
BEFORE

MASS
44
AREA
168802
HEIGHT
78259
22-Jun-2024
12:20
RUCHA
PATEL



AFTER

MASS
44
AREA
168802
HEIGHT
78259
22-Jun-2024
12:20
RUCHA
PATEL



Data File: \\nahstws005\Target\chem\voa7.i\P240612.b\P061213.D Page 1
Report Date: 13-Jun-2024 09:46

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa7.i\P240612.b\P061213.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 12-JUN-2024 15:31
Operator : AP Inst ID: voa7.i
Smp Info : BFB
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240612.b\bfb.m
Meth Date : 25-Mar-2024 14:28 apoluri Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 16 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7066

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/l)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
9.473	9.474	(0.000)	95	62928			0.00- 100.00	100.00
9.473	9.474	(0.000)	50	11338			15.00- 40.00	18.02
9.473	9.474	(0.000)	75	29528			30.00- 60.00	46.92
9.473	9.474	(0.000)	96	3436			5.00- 9.00	5.46
9.473	9.474	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.473	9.474	(0.000)	174	51368			50.00- 0.00	81.63
9.473	9.474	(0.000)	175	4114			5.00- 9.00	8.01
9.473	9.474	(0.000)	176	50232			95.00- 101.00	97.79
9.473	9.474	(0.000)	177	3180			5.00- 9.00	6.33

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.02
75	30.00 - 60.00% of mass 95	46.92
96	5.00 - 9.00% of mass 95	5.46
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	81.63
175	5.00 - 9.00% of mass 174	6.54 (8.01)
176	95.00 - 101.00% of mass 174	79.82 (97.79)
177	5.00 - 9.00% of mass 176	5.05 (6.33)

Data File: P061213.D
Spectrum: Scan 2766 (9.48)
Location of Maximum: 95.00
Number of points: 58

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	631	61.00	2683	81.80	220	117.90	264
37.10	3368	62.00	2536	87.00	2220	118.90	320
38.00	2889	63.00	1845	88.00	2024	128.00	159
39.00	1070	68.00	5984	90.90	314	129.80	229
39.90	308	69.00	6126	92.00	1700	134.80	156
44.00	463	70.00	443	93.10	2297	140.70	756
45.00	640	71.90	526	94.00	7311	142.90	637
47.00	914	73.00	2603	95.00	62928	145.90	201
47.90	348	74.00	10677	96.00	3436	173.90	51368
49.00	2393	75.00	29528	96.90	240	175.00	4114
50.00	11338	76.00	2361	103.90	247	175.90	50232
51.00	3753	77.00	430	104.80	159	176.90	3180
56.00	817	78.90	1489	105.80	256	205.00	326
57.00	1878	79.80	379	115.80	217		
59.90	565	80.90	1347	116.90	322		

Data File: \\nahstws005\Target\chem\voa7.i\P240612.b\P061213.D Page 1

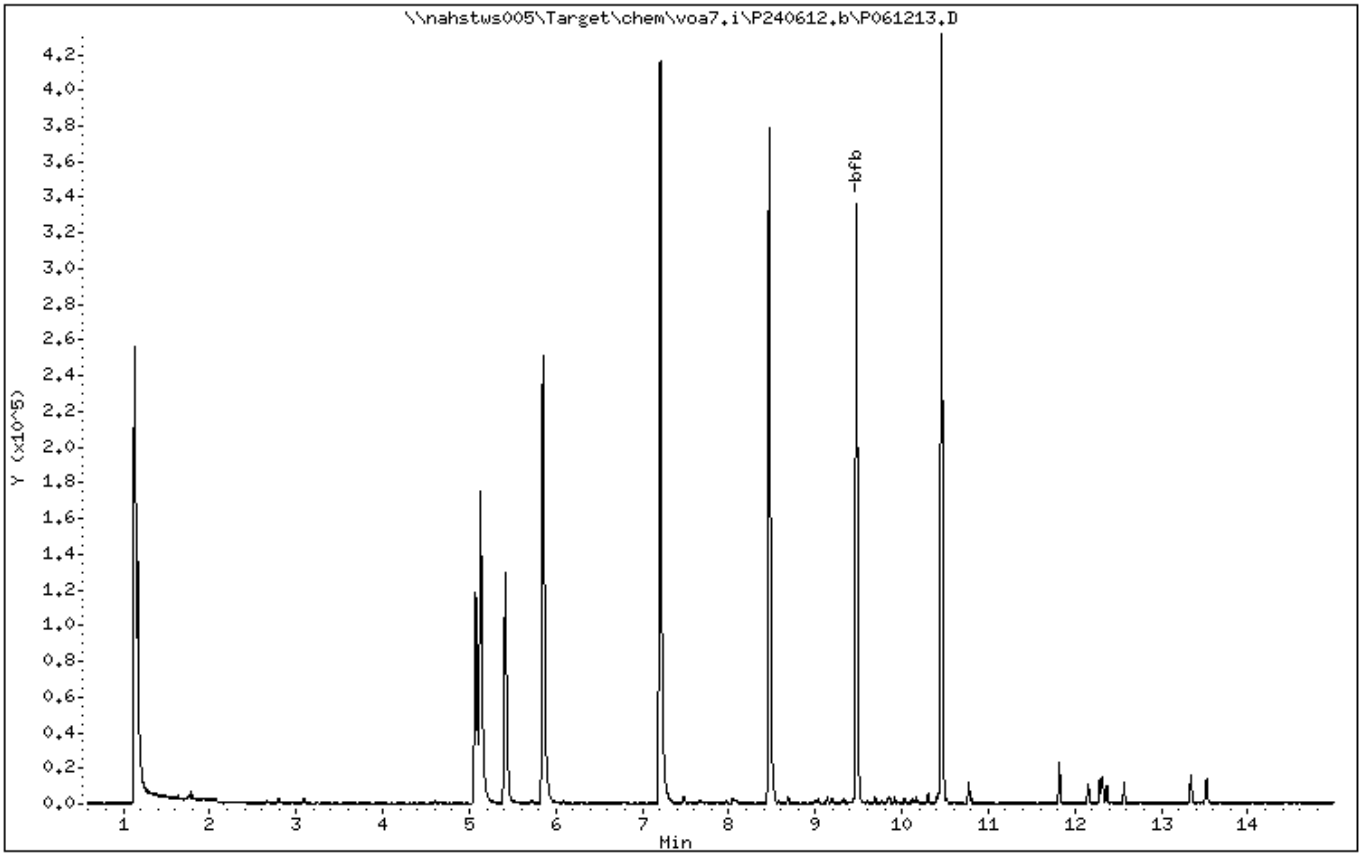
Date : 12-JUN-2024 15:31

Client ID: BFB Instrument: voa7.i

Sample Info: BFB

Volume Injected (uL): 2.0 Operator: AP

Column phase: DB624 Column diameter: 0.25



Data File: \\nahstws005\Target\chem\voa7.i\P240612.b\P061213.D Page 2

Date : 12-JUN-2024 15:31

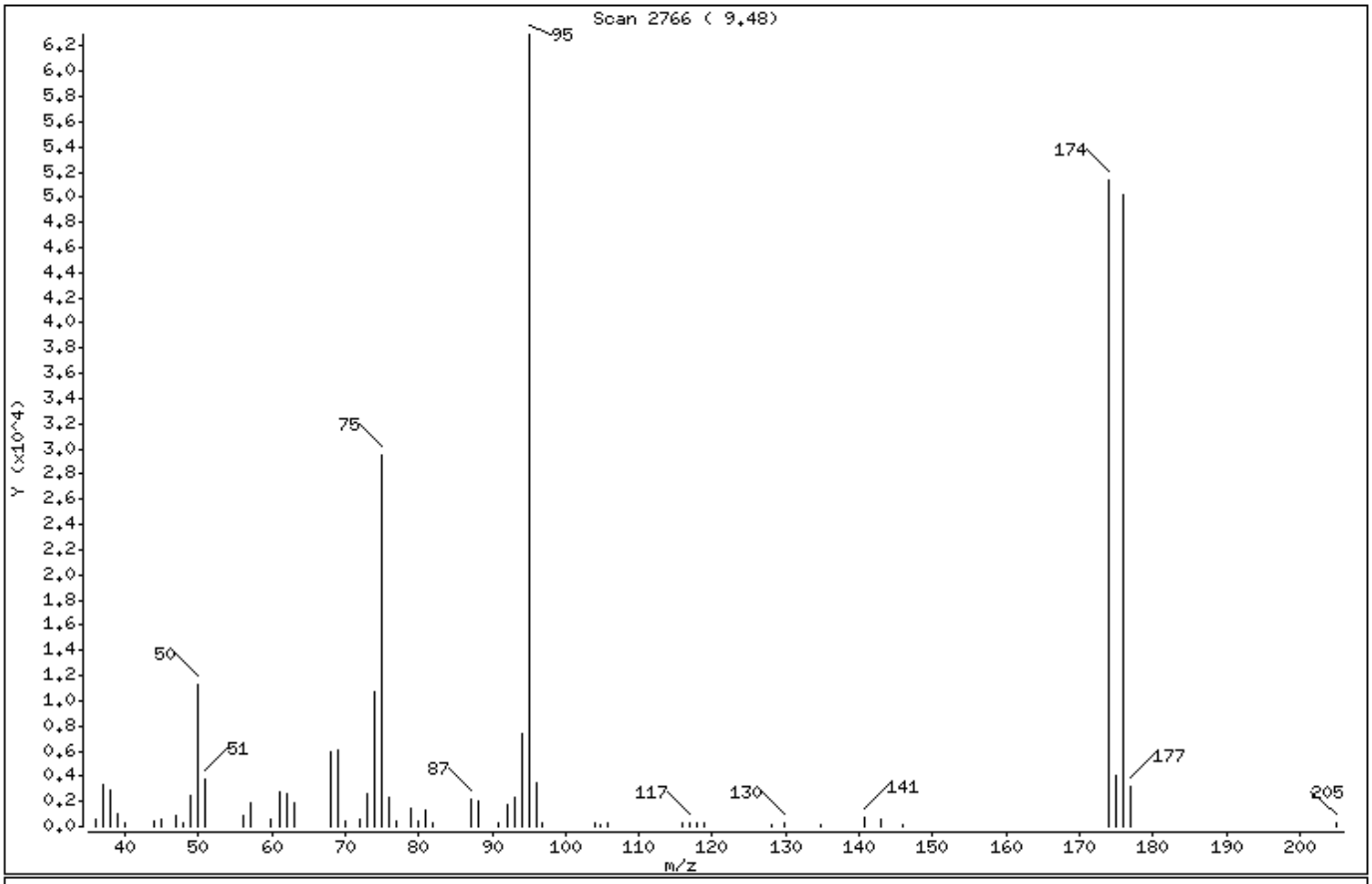
Client ID: BFB Instrument: voa7.i

Sample Info: BFB

Volume Injected (uL): 2.0 Operator: AP

Column phase: DB624 Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.02
75	30.00 - 60.00% of mass 95	46.92
96	5.00 - 9.00% of mass 95	5.46
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	81.63
175	5.00 - 9.00% of mass 174	6.54 (8.01)
176	95.00 - 101.00% of mass 174	79.82 (97.79)
177	5.00 - 9.00% of mass 176	5.05 (6.33)

Data File: \\nahstws005\Target\chem\voa7.i\P240612.b\P061213.D Page 3

Date : 12-JUN-2024 15:31

Client ID: BFB Instrument: voa7.i

Sample Info: BFB

Volume Injected (uL): 2.0 Operator: AP

Column phase: DB624 Column diameter: 0.25

Data File: P061213.D
Spectrum: Scan 2766 (9.48)
Location of Maximum: 95.00
Number of points: 58

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	631	61.00	2683	81.80	220	117.90	264
37.10	3368	62.00	2536	87.00	2220	118.90	320
38.00	2889	63.00	1845	88.00	2024	128.00	159
39.00	1070	68.00	5984	90.90	314	129.80	229
39.90	308	69.00	6126	92.00	1700	134.80	156
44.00	463	70.00	443	93.10	2297	140.70	756
45.00	640	71.90	526	94.00	7311	142.90	637
47.00	914	73.00	2603	95.00	62928	145.90	201
47.90	348	74.00	10677	96.00	3436	173.90	51368
49.00	2393	75.00	29528	96.90	240	175.00	4114
50.00	11338	76.00	2361	103.90	247	175.90	50232
51.00	3753	77.00	430	104.80	159	176.90	3180
56.00	817	78.90	1489	105.80	256	205.00	326
57.00	1878	79.80	379	115.80	217		
59.90	565	80.90	1347	116.90	322		

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061215.D Page 1
Report Date: 22-Jun-2024 12:22

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061215.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 12-JUN-2024 16:17
Operator : AP Inst ID: voa7.i
Smp Info : VSTD050
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240612.b\8260W.m
Meth Date : 22-Jun-2024 12:21 voa7.i Quant Type: ISTD
Cal Date : 12-JUN-2024 14:46 Cal File: P061211.D
Als bottle: 17 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	5.130	5.129	(1.000)	136740	50.0000	
2 Dichlorodifluoromethane	85	1.294	1.294	(0.252)	65275	46.3642	46.36
159 Dichlorofluoromethane	67	2.075	2.072	(0.405)	124235	43.9875	43.98
3 Chloromethane	50	1.448	1.451	(0.282)	101985	47.7317	47.73
4 Propionitrile	54	4.670	4.676	(0.910)	86518	477.257	477.25
5 Vinyl Chloride	62	1.535	1.535	(0.299)	88311	46.9621	46.96
6 Bromomethane	94	1.805	1.795	(0.352)	57125	47.2356	47.23
7 Chloroethane	64	1.898	1.888	(0.370)	53965	47.3974	47.39
8 Trichlorofluoromethane	101	2.114	2.110	(0.412)	115783	46.5047	46.50
9 Acrolein	56	2.516	2.515	(0.490)	5396	99.4288	99.42
10 Acetone	43	2.663	2.670	(0.519)	42444	91.1434	91.14
11 1,1-Dichloroethene	96	2.589	2.589	(0.505)	63516	48.1900	48.18
12 Isobutyl Alcohol	43	5.570	5.573	(1.086)	204098	943.843	943.84
13 Acetonitrile	39	2.959	2.959	(0.577)	93398	484.443	484.44
14 Allyl Chloride	41	2.959	2.959	(0.577)	194947	47.4209	47.42
15 Iodomethane	142	2.741	2.740	(0.534)	102030	99.1318	99.13
16 Acrylonitrile	53	3.380	3.380	(0.659)	43748	95.1164	95.11
17 Methylene Chloride	84	3.098	3.094	(0.604)	74771	47.3655	47.36
18 Methyl tert-butyl ether	73	3.377	3.380	(0.658)	163677	45.4011	45.40
19 Carbon Disulfide	76	2.795	2.795	(0.545)	401885	93.2423	93.24

20 trans-1,2-Dichloroethene	96	3.374	3.377 (0.658)	65941	45.0772	45.07
21 Vinyl Acetate	43	4.660	4.660 (0.908)	72871	96.8569	96.85

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061215.D Page 2
Report Date: 22-Jun-2024 12:22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
22	1,1-Dichloroethane	63	3.866	3.863	(0.754)	140006	47.3953	47.39
23	Chloroprene	53	3.962	3.962	(0.772)	117285	45.7166	45.71
24	2-Butanone	43	4.593	4.589	(0.895)	57277	91.7560	91.75
25	Methacrylonitrile	41	2.146	2.146	(0.418)	104274	46.8001	46.80(M)
26	2,2-Dichloropropane	77	4.535	4.535	(0.884)	117138	45.6807	45.68
27	cis-1,2-Dichloroethene	96	4.541	4.544	(0.885)	75987	46.8135	46.81
28	Chloroform	83	4.901	4.904	(0.956)	137853	47.4882	47.48
29	Bromochloromethane	128	4.805	4.808	(0.937)	38478	49.5704	49.57
$ 30	Dibromofluoromethane	113	5.075	5.072	(0.989)	72614	49.6109	49.61
31	1,1,1-Trichloroethane	97	5.068	5.072	(0.988)	118101	46.0558	46.05
32	1,1-Dichloropropene	75	5.245	5.245	(0.896)	103315	47.3824	47.38
33	1,2-Dichloroethane	62	5.493	5.493	(0.938)	114864	47.9125	47.91
34	Carbon Tetrachloride	117	5.236	5.236	(0.895)	102345	46.0237	46.02
$ 35	1,2-Dichloroethane-d4	65	5.416	5.416	(1.056)	93178	48.4460	48.44
* 36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	219663	50.0000	
37	Benzene	78	5.458	5.457	(0.932)	279053	48.0064	48.00
38	Trichloroethene	130	6.088	6.088	(1.040)	73571	48.1544	48.15
39	Bromodichloromethane	83	6.570	6.570	(1.122)	105535	47.5667	47.56
40	Methyl Methacrylate	41	6.435	6.435	(1.254)	68113	48.2157	48.21
41	2-Chloroethylvinyl ether	63	6.853	6.856	(1.171)	61045	103.958	103.95(A)
42	1,2-Dichloropropane	63	6.310	6.309	(1.078)	81830	48.5150	48.51
43	2-Nitropropane	43	6.802	6.801	(1.326)	20981	44.0629	44.06
44	Dibromomethane	93	6.419	6.419	(1.097)	45764	47.9109	47.91
45	4-Methyl-2-Pentanone	43	7.129	7.129	(0.842)	145148	98.2361	98.23
46	cis-1,3-Dichloropropene	75	6.978	6.978	(1.192)	115196	46.6898	46.68
* 47	Chlorobenzene-d5	117	8.467	8.467	(1.000)	203093	50.0000	
$ 48	Toluene-d8	98	7.207	7.207	(0.851)	258969	51.1120	51.11
49	Ethyl Methacrylate	69	8.043	8.043	(1.374)	64133	44.7362	44.73
50	Toluene	91	7.265	7.264	(0.858)	294808	49.5148	49.51
51	trans-1,3-Dichloropropene	75	6.978	6.978	(1.192)	115196	46.6898	46.68
52	2-Hexanone	43	7.859	7.862	(0.928)	100371	97.5342	97.53
53	1,1,2-Trichloroethane	83	7.638	7.641	(0.902)	56397	49.2153	49.21
54	1,3-Dichloropropane	76	7.782	7.782	(0.919)	117083	49.0271	49.02
55	Dibromochloromethane	129	7.978	7.978	(0.942)	78226	48.6503	48.65
56	Tetrachloroethene	164	7.737	7.737	(0.914)	56267	48.4312	48.43
57	1,2-Dibromoethane	107	8.072	8.075	(0.953)	52663	47.7974	47.79
58	1-Chlorohexane	55	8.470	8.470	(1.447)	70152	48.0824	48.08
59	Chlorobenzene	112	8.493	8.493	(1.003)	192140	49.2988	49.29
60	1,1,1,2-Tetrachloroethane	131	8.564	8.567	(1.011)	70333	48.2252	48.22
61	Ethylbenzene	106	8.583	8.586	(1.014)	99807	49.4129	49.41
62	m,p-Xylenes	106	8.682	8.686	(1.025)	250229	98.2362	98.23
63	o-Xylene	106	9.027	9.026	(1.066)	121781	49.7626	49.76
64	Styrene	104	9.039	9.039	(1.068)	203350	49.2033	49.20
66	Bromoform	173	9.207	9.206	(1.087)	49229	48.3068	48.30
67	Isopropylbenzene	105	9.338	9.341	(1.103)	305618	49.1841	49.18
68	1,1,2,2-Tetrachloroethane	83	9.612	9.612	(0.919)	89174	52.3342	52.33
$ 69	4-Bromofluorobenzene	95	9.473	9.477	(1.119)	101176	50.7245	50.72
* 70	1,4-Dichlorobenzene-d4	152	10.457	10.460	(1.000)	100769	50.0000	
71	1,2,3-Trichloropropane	75	9.647	9.650	(0.923)	94258	50.9025	50.90
72	trans-1,4-Dichloro-2-butene	53	9.657	9.660	(1.140)	19524	47.1361	47.13
73	n-Propylbenzene	91	9.689	9.692	(0.927)	372814	51.2681	51.26
74	Bromobenzene	156	9.605	9.605	(0.919)	82882	51.3117	51.31

75	1,3,5-Trimethylbenzene	105	9.837	9.840 (0.941)	255596	49.7383	49.73
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	229180	51.0998	51.09

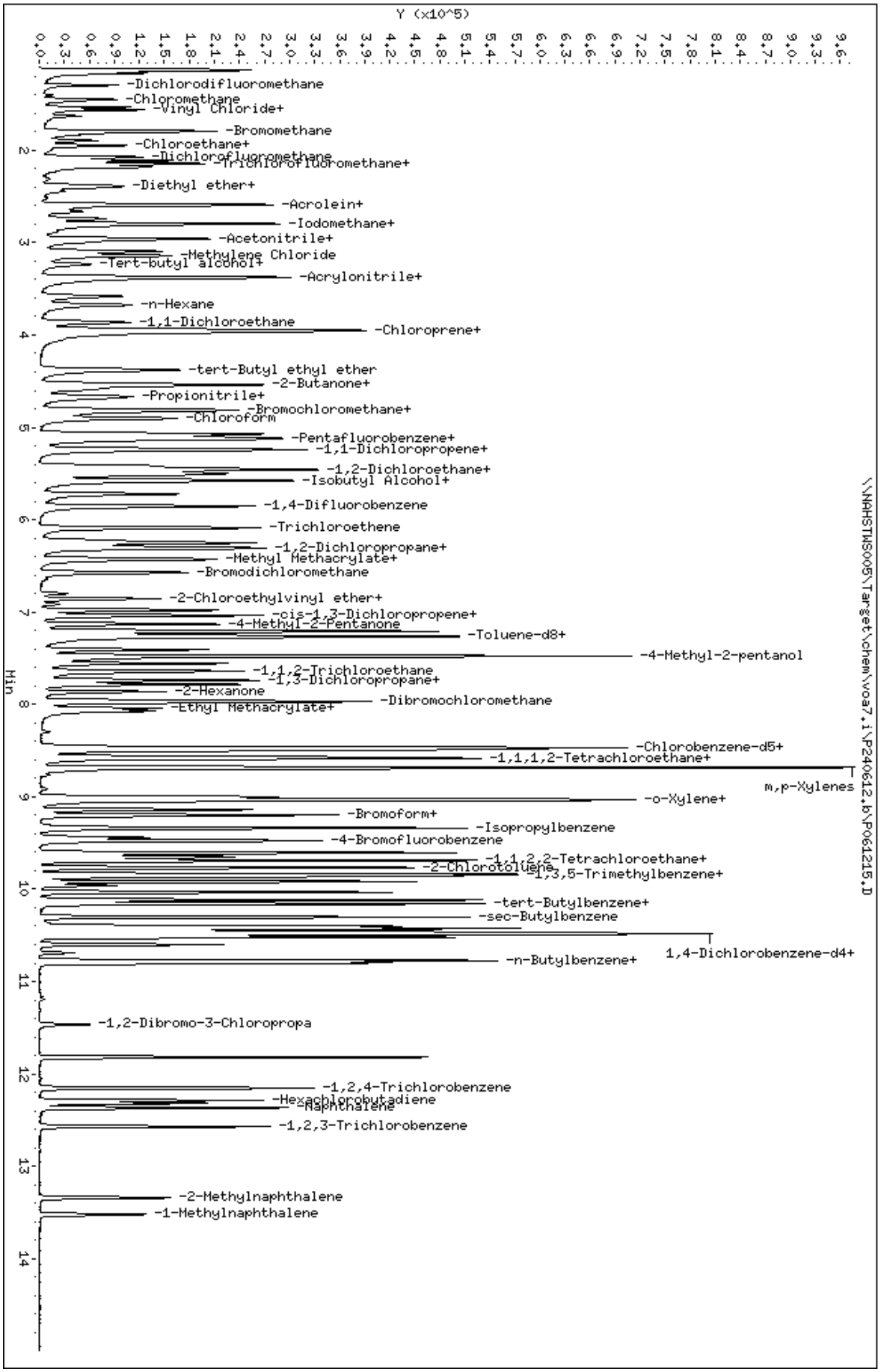
Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061215.D Page 3
Report Date: 22-Jun-2024 12:22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
77	4-Chlorotoluene	91	9.859	9.859	(0.943)	264417	50.3034	50.30
78	tert-Butylbenzene	119	10.117	10.116	(0.967)	219609	51.0731	51.07
79	1,2,4-Trimethylbenzene	105	10.155	10.158	(0.971)	264287	51.2418	51.24
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	306769	51.3467	51.34
82	p-Isopropyltoluene	119	10.425	10.428	(0.997)	267948	46.6696	46.66
83	1,3-Dichlorobenzene	146	10.403	10.403	(0.995)	149508	51.2384	51.23
84	1,4-Dichlorobenzene	146	10.480	10.480	(1.002)	153637	50.9085	50.90
87	n-Butylbenzene	91	10.776	10.776	(1.030)	246665	47.4107	47.41
88	1,2-Dichlorobenzene	146	10.798	10.798	(1.033)	144488	50.9551	50.95
89	1,2-Dibromo-3-Chloropropane	75	11.464	11.467	(1.096)	13568	45.4480	45.44
90	1,2,4-Trichlorobenzene	180	12.155	12.155	(1.162)	88780	49.7121	49.71
91	Hexachlorobutadiene	225	12.287	12.290	(1.175)	44763	54.6322	54.63
92	Naphthalene	128	12.367	12.367	(1.183)	196553	49.8824	49.88
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	70717	49.7440	49.74
146	Methyl acetate	43	2.991	2.991	(0.583)	49472	45.6819	45.68
138	Freon TF	101	2.589	2.593	(0.505)	65524	46.7571	46.75
139	Diethyl ether	59	2.377	2.380	(0.463)	45187	48.7925	48.79
140	1,3-Butadiene	54	1.564	1.564	(0.305)	40101	47.6191	47.61
141	Cyclohexane	56	5.107	5.110	(0.996)	105459	46.8318	46.83
147	Methylcyclohexane	83	6.252	6.252	(1.068)	102950	48.0803	48.08
132	n-Butanol	56	6.249	6.252	(1.218)	41123	898.340	898.34(T)
131	Methyl Acrylate	55	4.689	4.689	(0.914)	68482	47.7982	47.79
133	Ethyl Acrylate	55	6.245	6.248	(1.217)	174212	44.9887	44.98(M)
136	n-Hexane	57	3.676	3.673	(0.717)	71195	45.3194	45.31
142	Tetrahydrofuran	42	4.856	4.859	(0.947)	21606	89.1382	89.13
148	Tert-butyl alcohol	59	3.233	3.242	(0.630)	90384	991.593	991.59
149	Isopropyl alcohol	45	2.815	2.821	(0.549)	80560	926.990	926.99
151	4-Methyl-2-pentanol	45	7.474	7.480	(0.883)	388370	951.980	951.98
166	1,2,3-Trimethylbenzene	105	10.518	10.522	(1.006)	237133	51.9654	51.96
167	Ethanol	45	2.307	2.329	(0.450)	14272	1017.84	1017.83
172	tert-Butyl formate	59	3.233	3.242	(0.630)	90384	99.1442	99.14
173	3,3-Dimethyl-1-butanol	57	8.043	8.043	(0.950)	91238	935.894	935.89
174	tert-Amyl methyl ether	73	5.580	5.580	(1.088)	182008	49.4760	49.47
175	tert-Butyl ethyl ether	59	4.377	4.377	(0.853)	196217	49.1200	49.11
157	2-Methylnaphthalene	142	13.341	13.341	(1.276)	73102	49.3989	49.39
156	Diisopropyl ether	45	3.950	3.949	(0.770)	235613	48.1062	48.10
171	1-Methylnaphthalene	142	13.518	13.525	(1.293)	58987	49.0978	49.09
130	Ethyl Acetate	43	3.943	3.946	(0.769)	428860	46.6710	46.67
176	tert-Amyl alcohol	59	5.512	5.518	(1.075)	90306	991.348	991.34(A)
160	Epichlorohydrin	57	6.914	6.914	(1.181)	17186	208.280	208.28
161	Butyl acrylate	55	8.998	8.997	(1.063)	160975	48.2822	48.28
182	Isobutylene	56	1.950	1.946	(0.380)	9821	48.5385	48.53(AM)
183	Isopropyl Acetate	43	5.570	5.573	(0.952)	204098	48.4259	48.42(A)
184	n-Amyl acetate	43	9.194	9.197	(1.086)	145207	45.5831	45.58(A)
185	Acetaldehyde	44	1.631	1.631	(0.318)	65966	190.133	190.13(AM)
M 94	1,2-Dichloroethylene (total)	96				141928	91.8907	91.89
M 95	Xylenes (total)	106				372010	147.999	147.99

QC Flag Legend

T - Target compound detected outside RT window.

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061215.D
Date : 12-JUN-2024 16:17
Client ID: VSTD050
Sample Info: VSTD050
Purge Volume: 5.0
Column phase: DB624

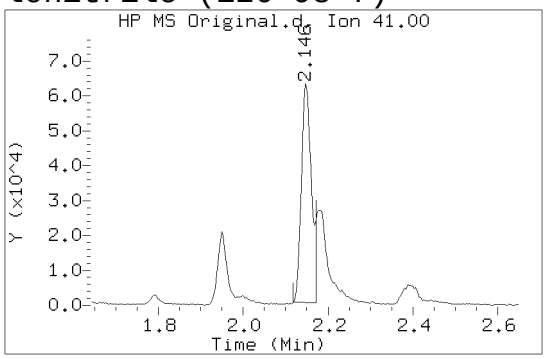
Instrument: voa7.i
Operator: AP
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061215.D
Inj Date : 12-JUN-2024 16:17
InstruID : voa7.i
LabSampID : VSTD050

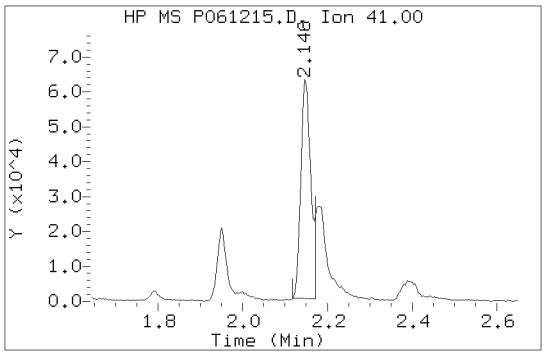
Methacrylonitrile (126-98-7)

Reason Code:

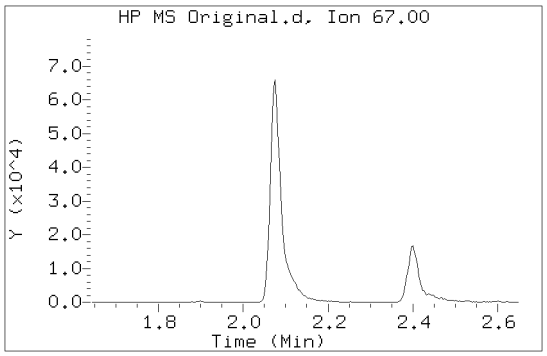
BEFORE
MASS
41
AREA
104274
HEIGHT
62673
22-Jun-2024
12:21
RUCHA
PATEL



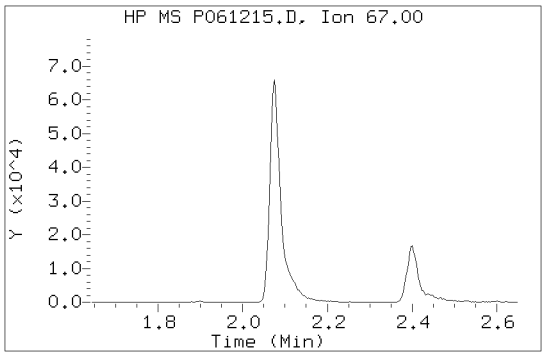
AFTER
MASS
41
AREA
104274
HEIGHT
62673
22-Jun-2024
12:21
RUCHA
PATEL



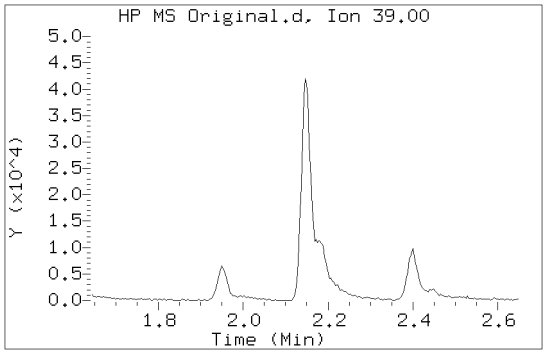
BEFORE
MASS
67
AREA
22978
HEIGHT
11685
22-Jun-2024
12:21
RUCHA
PATEL



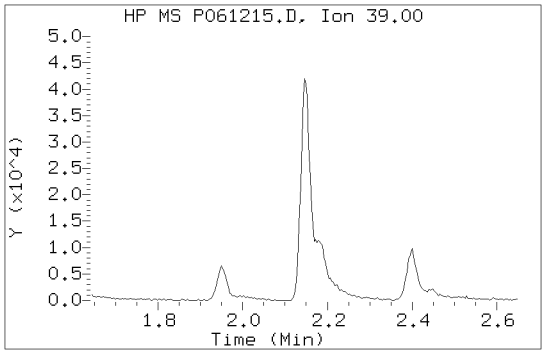
AFTER
MASS
67
AREA
22978
HEIGHT
11685
22-Jun-2024
12:21
RUCHA
PATEL



BEFORE
MASS
39
AREA
14074
HEIGHT
5066
22-Jun-2024
12:21
RUCHA
PATEL



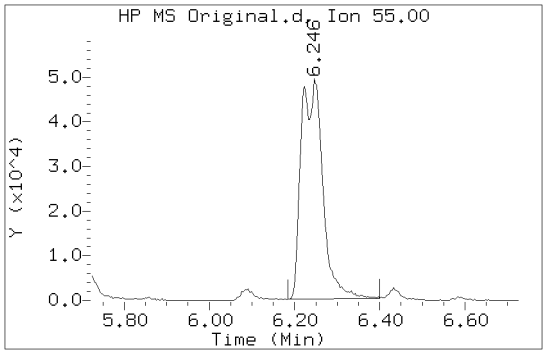
AFTER
MASS
39
AREA
14074
HEIGHT
5066
22-Jun-2024
12:21
RUCHA
PATEL



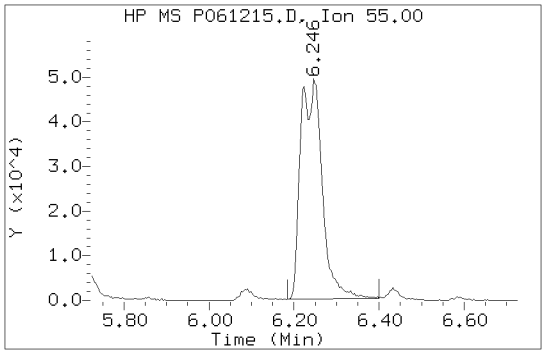
Ethyl Acrylate (140-88-5)

Reason Code:

BEFORE
MASS
55
AREA
174212
HEIGHT
49356
22-Jun-2024
12:21
RUCHA
PATEL



AFTER
MASS
55
AREA
174212
HEIGHT
49356
22-Jun-2024
12:21
RUCHA
PATEL



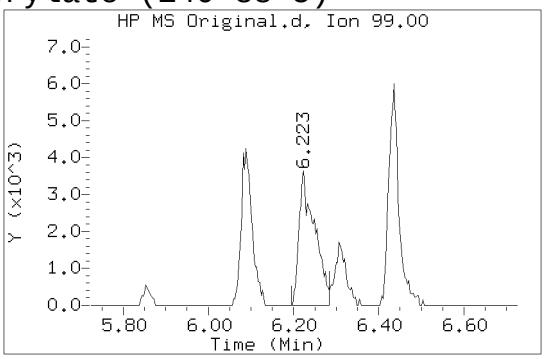
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061215.D
Inj Date : 12-JUN-2024 16:17
InstruID : voa7.i
LabSampID : VSTD050

Ethyl Acrylate (140-88-5)

Reason Code:

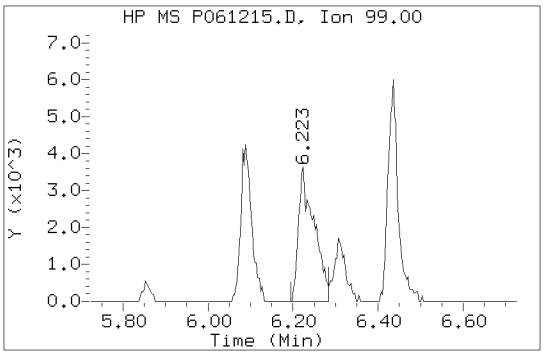
BEFORE

MASS
99
AREA
9352
HEIGHT
3644
22-Jun-2024
12:21
RUCHA
PATEL



AFTER

MASS
99
AREA
9352
HEIGHT
3644
22-Jun-2024
12:21
RUCHA
PATEL

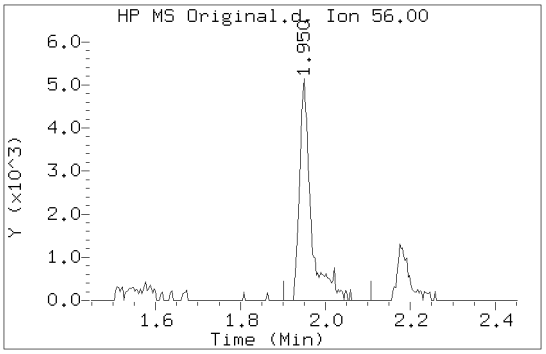


Isobutylene (115-11-7)

Reason Code:

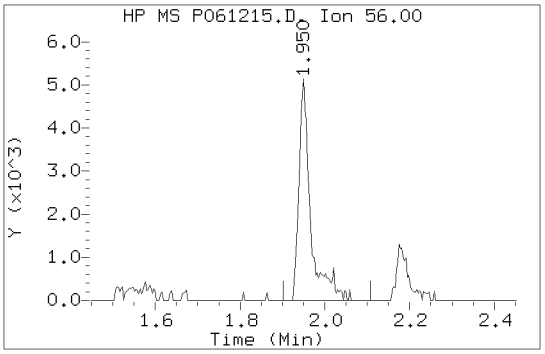
BEFORE

MASS
56
AREA
9821
HEIGHT
5143
22-Jun-2024
12:21
RUCHA
PATEL



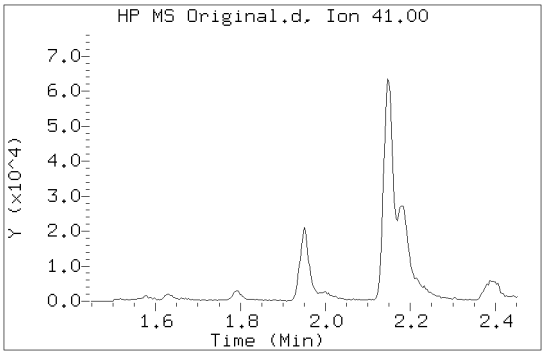
AFTER

MASS
56
AREA
9821
HEIGHT
5143
22-Jun-2024
12:21
RUCHA
PATEL



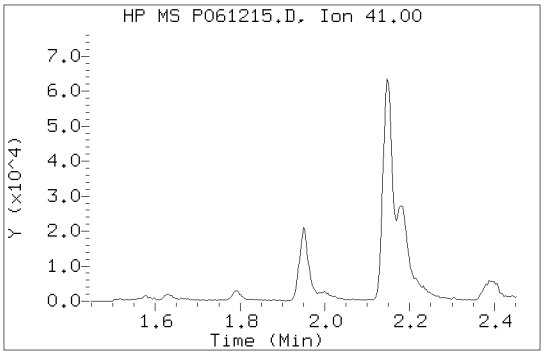
BEFORE

MASS
41
AREA
0
HEIGHT
0
22-Jun-2024
12:21
RUCHA
PATEL



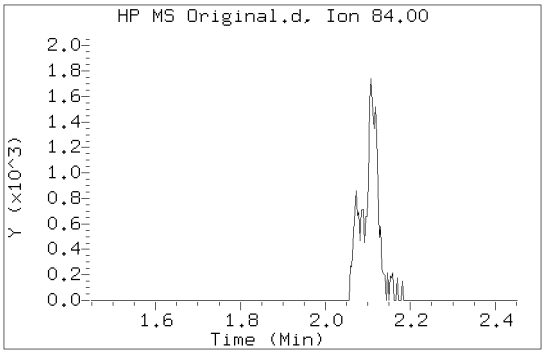
AFTER

MASS
41
AREA
0
HEIGHT
0
22-Jun-2024
12:21
RUCHA
PATEL



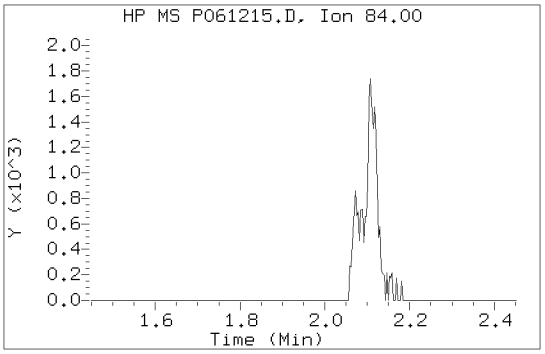
BEFORE

MASS
84
AREA
0
HEIGHT
0
22-Jun-2024
12:21
RUCHA
PATEL



AFTER

MASS
84
AREA
0
HEIGHT
0
22-Jun-2024
12:21
RUCHA
PATEL



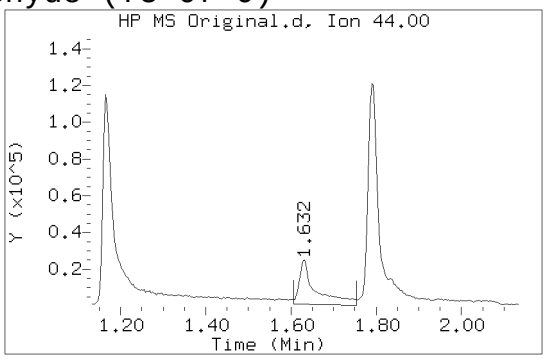
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061215.D
Inj Date : 12-JUN-2024 16:17
InstruID : voa7.i
LabSampID : VSTD050

Acetaldehyde (75-07-0)

Reason Code:

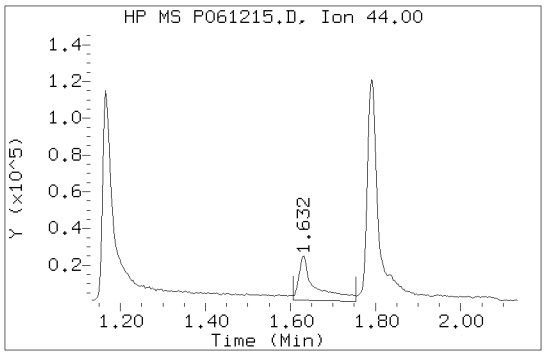
BEFORE

MASS
44
AREA
65966
HEIGHT
24165
22-Jun-2024
12:21
RUCHA
PATEL



AFTER

MASS
44
AREA
65966
HEIGHT
24165
22-Jun-2024
12:21
RUCHA
PATEL



right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24060434

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 18/24

07/15/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Data File: \\nahstws005\Target\chem\voa7.i\P240612.b\P061213.D Page 1
Report Date: 13-Jun-2024 09:46

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa7.i\P240612.b\P061213.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 12-JUN-2024 15:31
Operator : AP Inst ID: voa7.i
Smp Info : BFB
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240612.b\bfb.m
Meth Date : 25-Mar-2024 14:28 apoluri Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 16 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7066

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

RT	EXP RT	REL RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/l)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
9.473	9.474	(0.000)	95	62928			0.00- 100.00	100.00
9.473	9.474	(0.000)	50	11338			15.00- 40.00	18.02
9.473	9.474	(0.000)	75	29528			30.00- 60.00	46.92
9.473	9.474	(0.000)	96	3436			5.00- 9.00	5.46
9.473	9.474	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.473	9.474	(0.000)	174	51368			50.00- 0.00	81.63
9.473	9.474	(0.000)	175	4114			5.00- 9.00	8.01
9.473	9.474	(0.000)	176	50232			95.00- 101.00	97.79
9.473	9.474	(0.000)	177	3180			5.00- 9.00	6.33

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.02
75	30.00 - 60.00% of mass 95	46.92
96	5.00 - 9.00% of mass 95	5.46
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	81.63
175	5.00 - 9.00% of mass 174	6.54 (8.01)
176	95.00 - 101.00% of mass 174	79.82 (97.79)
177	5.00 - 9.00% of mass 176	5.05 (6.33)

Data File: P061213.D
Spectrum: Scan 2766 (9.48)
Location of Maximum: 95.00
Number of points: 58

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	631	61.00	2683	81.80	220	117.90	264
37.10	3368	62.00	2536	87.00	2220	118.90	320
38.00	2889	63.00	1845	88.00	2024	128.00	159
39.00	1070	68.00	5984	90.90	314	129.80	229
39.90	308	69.00	6126	92.00	1700	134.80	156
44.00	463	70.00	443	93.10	2297	140.70	756
45.00	640	71.90	526	94.00	7311	142.90	637
47.00	914	73.00	2603	95.00	62928	145.90	201
47.90	348	74.00	10677	96.00	3436	173.90	51368
49.00	2393	75.00	29528	96.90	240	175.00	4114
50.00	11338	76.00	2361	103.90	247	175.90	50232
51.00	3753	77.00	430	104.80	159	176.90	3180
56.00	817	78.90	1489	105.80	256	205.00	326
57.00	1878	79.80	379	115.80	217		
59.90	565	80.90	1347	116.90	322		

Data File: \\nahstws005\Target\chem\voa7.i\P240612.b\P061213.D Page 1

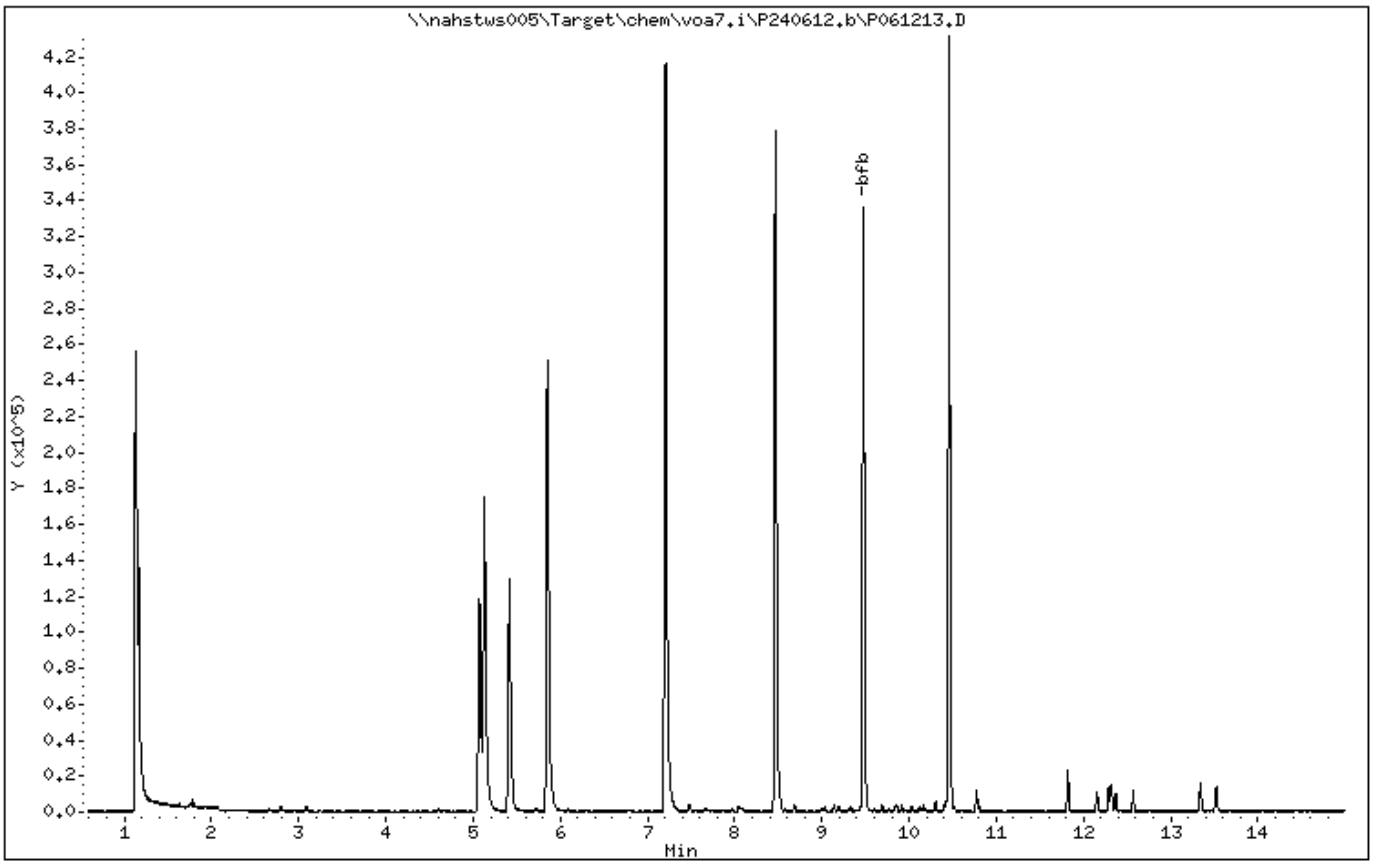
Date : 12-JUN-2024 15:31

Client ID: BFB Instrument: voa7.i

Sample Info: BFB

Volume Injected (uL): 2.0 Operator: AP

Column phase: DB624 Column diameter: 0.25



Data File: \\nahstws005\Target\chem\voa7.i\P240612.b\P061213.D Page 2

Date : 12-JUN-2024 15:31

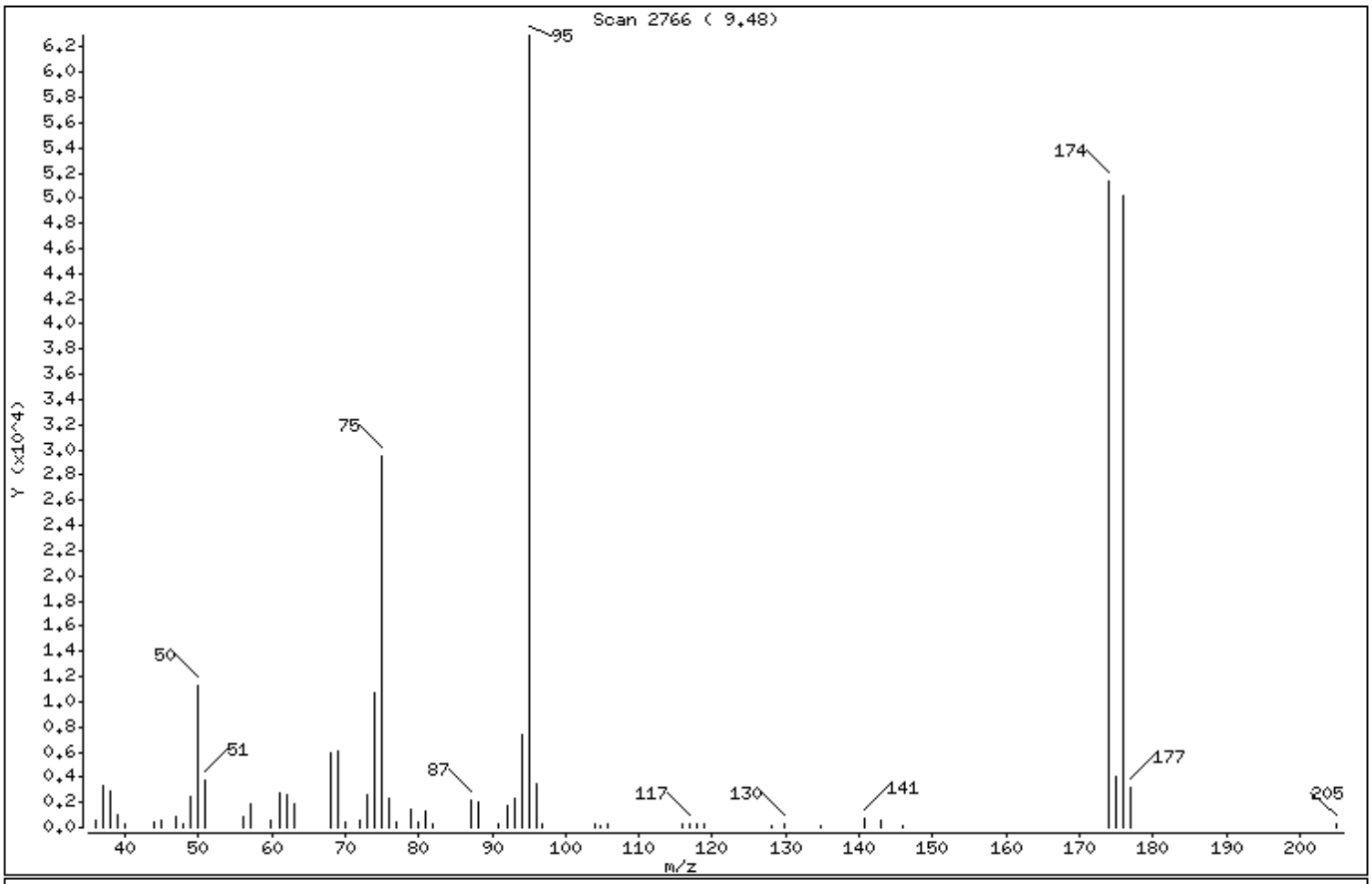
Client ID: BFB Instrument: voa7.i

Sample Info: BFB

Volume Injected (uL): 2.0 Operator: AP

Column phase: DB624 Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.02
75	30.00 - 60.00% of mass 95	46.92
96	5.00 - 9.00% of mass 95	5.46
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	81.63
175	5.00 - 9.00% of mass 174	6.54 (8.01)
176	95.00 - 101.00% of mass 174	79.82 (97.79)
177	5.00 - 9.00% of mass 176	5.05 (6.33)

Data File: \\nahstws005\Target\chem\voa7.i\P240612.b\P061213.D

Date : 12-JUN-2024 15:31

Client ID: BFB Instrument: voa7.i

Sample Info: BFB

Volume Injected (uL): 2.0 Operator: AP

Column phase: DB624 Column diameter: 0.25

Data File: P061213.D
Spectrum: Scan 2766 (9.48)
Location of Maximum: 95.00
Number of points: 58

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	631	61.00	2683	81.80	220	117.90	264
37.10	3368	62.00	2536	87.00	2220	118.90	320
38.00	2889	63.00	1845	88.00	2024	128.00	159
39.00	1070	68.00	5984	90.90	314	129.80	229
39.90	308	69.00	6126	92.00	1700	134.80	156
44.00	463	70.00	443	93.10	2297	140.70	756
45.00	640	71.90	526	94.00	7311	142.90	637
47.00	914	73.00	2603	95.00	62928	145.90	201
47.90	348	74.00	10677	96.00	3436	173.90	51368
49.00	2393	75.00	29528	96.90	240	175.00	4114
50.00	11338	76.00	2361	103.90	247	175.90	50232
51.00	3753	77.00	430	104.80	159	176.90	3180
56.00	817	78.90	1489	105.80	256	205.00	326
57.00	1878	79.80	379	115.80	217		
59.90	565	80.90	1347	116.90	322		

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061216.D Page 1
Report Date: 22-Jun-2024 12:22

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061216.D
Lab Smp Id: VLCSW-240612 Client Smp ID: VLCSW-240612
Inj Date : 12-JUN-2024 16:40
Operator : AP Inst ID: voa7.i
Smp Info : VLCSW-240612;VLCSW-240612;3;;LCS
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240612.b\8260W.m
Meth Date : 22-Jun-2024 12:21 voa7.i Quant Type: ISTD
Cal Date : 12-JUN-2024 14:46 Cal File: P061211.D
Als bottle: 17 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1	Pentafluorobenzene	168	5.130	5.129	(1.000)	134291	50.0000	
2	Dichlorodifluoromethane	85	1.297	1.294	(0.253)	26703	19.1909	19.19
159	Dichlorofluoromethane	67	2.075	2.072	(0.405)	51562	18.5893	18.58
3	Chloromethane	50	1.448	1.451	(0.282)	42788	19.9517	19.95
4	Propionitrile	54	4.673	4.676	(0.911)	36612	202.651	202.65
5	Vinyl Chloride	62	1.535	1.535	(0.299)	37849	20.4098	20.40
6	Bromomethane	94	1.805	1.795	(0.352)	23483	18.5655	18.56
7	Chloroethane	64	1.895	1.888	(0.369)	22757	20.1159	20.11
8	Trichlorofluoromethane	101	2.114	2.110	(0.412)	46751	19.2667	19.26
9	Acrolein	56	2.515	2.515	(0.490)	2012	39.3333	39.33
10	Acetone	43	2.667	2.670	(0.520)	19649	39.5782	39.57
11	1,1-Dichloroethene	96	2.593	2.589	(0.505)	25325	19.5646	19.56
12	Isobutyl Alcohol	43	5.570	5.573	(1.086)	88241	406.580	406.57
13	Acetonitrile	39	2.959	2.959	(0.577)	37220	195.132	195.13
14	Allyl Chloride	41	2.959	2.959	(0.577)	84290	20.6549	20.65
15	Iodomethane	142	2.744	2.740	(0.535)	37316	41.1919	41.19
16	Acrylonitrile	53	3.380	3.380	(0.659)	18739	41.2365	41.23
17	Methylene Chloride	84	3.094	3.094	(0.603)	32456	20.2240	20.22
18	Methyl tert-butyl ether	73	3.380	3.380	(0.659)	67177	19.5130	19.51
19	Carbon Disulfide	76	2.795	2.795	(0.545)	168823	40.1089	40.10

20 trans-1,2-Dichloroethene	96	3.377	3.377 (0.658)	27209	18.9392	18.93
21 Vinyl Acetate	43	4.657	4.660 (0.908)	30993	40.8390	40.83

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061216.D Page 2
Report Date: 22-Jun-2024 12:22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	22 1,1-Dichloroethane	63	3.863	3.863	(0.753)	57612	19.7979	19.79
	23 Chloroprene	53	3.962	3.962	(0.772)	48750	19.3488	19.34
	24 2-Butanone	43	4.596	4.589	(0.896)	27313	43.1290	43.12
	25 Methacrylonitrile	41	2.149	2.146	(0.419)	40282	19.0965	19.09(M)
	26 2,2-Dichloropropane	77	4.535	4.535	(0.884)	46603	18.8046	18.80
	27 cis-1,2-Dichloroethene	96	4.544	4.544	(0.886)	31558	19.8065	19.80
	28 Chloroform	83	4.908	4.904	(0.957)	56687	19.7174	19.71
	29 Bromochloromethane	128	4.808	4.808	(0.937)	15181	19.5562	19.55
$	30 Dibromofluoromethane	113	5.075	5.072	(0.989)	71217	49.5431	49.54
	31 1,1,1-Trichloroethane	97	5.072	5.072	(0.989)	47829	19.2752	19.27
	32 1,1-Dichloropropene	75	5.245	5.245	(0.896)	42551	19.9520	19.95
	33 1,2-Dichloroethane	62	5.493	5.493	(0.938)	47487	19.8540	19.85
	34 Carbon Tetrachloride	117	5.236	5.236	(0.895)	40841	19.0166	19.01
$	35 1,2-Dichloroethane-d4	65	5.416	5.416	(1.056)	96502	51.1325	51.13
*	36 1,4-Difluorobenzene	114	5.853	5.853	(1.000)	216595	50.0000	
	37 Benzene	78	5.457	5.457	(0.932)	117554	20.3268	20.32
	38 Trichloroethene	130	6.084	6.088	(1.040)	30717	20.3875	20.38
	39 Bromodichloromethane	83	6.570	6.570	(1.122)	42170	19.3073	19.30
	40 Methyl Methacrylate	41	6.432	6.435	(1.254)	29371	20.4364	20.43
	41 2-Chloroethylvinyl ether	63	6.856	6.856	(1.171)	24409	42.7314	42.73
	42 1,2-Dichloropropane	63	6.310	6.309	(1.078)	33802	20.2385	20.23
	43 2-Nitropropane	43	6.801	6.801	(1.326)	8950	19.4714	19.47
	44 Dibromomethane	93	6.419	6.419	(1.097)	18945	20.0263	20.02
	45 4-Methyl-2-Pentanone	43	7.129	7.129	(0.842)	63787	41.8403	41.84
	46 cis-1,3-Dichloropropene	75	6.978	6.978	(1.192)	46726	19.6566	19.65
*	47 Chlorobenzene-d5	117	8.467	8.467	(1.000)	203052	50.0000	
$	48 Toluene-d8	98	7.207	7.207	(0.851)	264629	52.2683	52.26
	49 Ethyl Methacrylate	69	8.043	8.043	(1.374)	28882	21.0245	21.02
	50 Toluene	91	7.264	7.264	(0.858)	123444	20.2458	20.24
	51 trans-1,3-Dichloropropene	75	6.978	6.978	(1.192)	46726	19.6566	19.65
	52 2-Hexanone	43	7.859	7.862	(0.928)	43481	41.0998	41.09
	53 1,1,2-Trichloroethane	83	7.637	7.641	(0.902)	23567	19.8754	19.87
	54 1,3-Dichloropropane	76	7.782	7.782	(0.919)	49311	20.0285	20.02
	55 Dibromochloromethane	129	7.975	7.978	(0.942)	31466	19.4514	19.45
	56 Tetrachloroethene	164	7.740	7.737	(0.914)	23181	19.7297	19.72
	57 1,2-Dibromoethane	107	8.072	8.075	(0.953)	22762	20.0862	20.08
	58 1-Chlorohexane	55	8.470	8.470	(1.447)	30773	20.3581	20.35
	59 Chlorobenzene	112	8.490	8.493	(1.003)	80106	20.1049	20.10
	60 1,1,1,2-Tetrachloroethane	131	8.567	8.567	(1.012)	28522	19.5488	19.54
	61 Ethylbenzene	106	8.583	8.586	(1.014)	41466	20.2649	20.26
	62 m,p-Xylenes	106	8.682	8.686	(1.025)	106297	41.1007	41.10
	63 o-Xylene	106	9.023	9.026	(1.066)	50721	20.3441	20.34
	64 Styrene	104	9.039	9.039	(1.068)	85178	20.4252	20.42
	66 Bromoform	173	9.207	9.206	(1.087)	19968	19.7009	19.70
	67 Isopropylbenzene	105	9.338	9.341	(1.103)	128107	20.3324	20.33
	68 1,1,2,2-Tetrachloroethane	83	9.608	9.612	(0.919)	37081	20.7088	20.70
$	69 4-Bromofluorobenzene	95	9.477	9.477	(1.119)	101115	50.7033	50.70
*	70 1,4-Dichlorobenzene-d4	152	10.457	10.460	(1.000)	100804	50.0000	
	71 1,2,3-Trichloropropane	75	9.647	9.650	(0.923)	40532	20.8582	20.85
	72 trans-1,4-Dichloro-2-butene	53	9.660	9.660	(1.141)	8404	20.3635	20.36
	73 n-Propylbenzene	91	9.689	9.692	(0.927)	156921	20.9529	20.95
	74 Bromobenzene	156	9.602	9.605	(0.918)	34798	20.6970	20.69

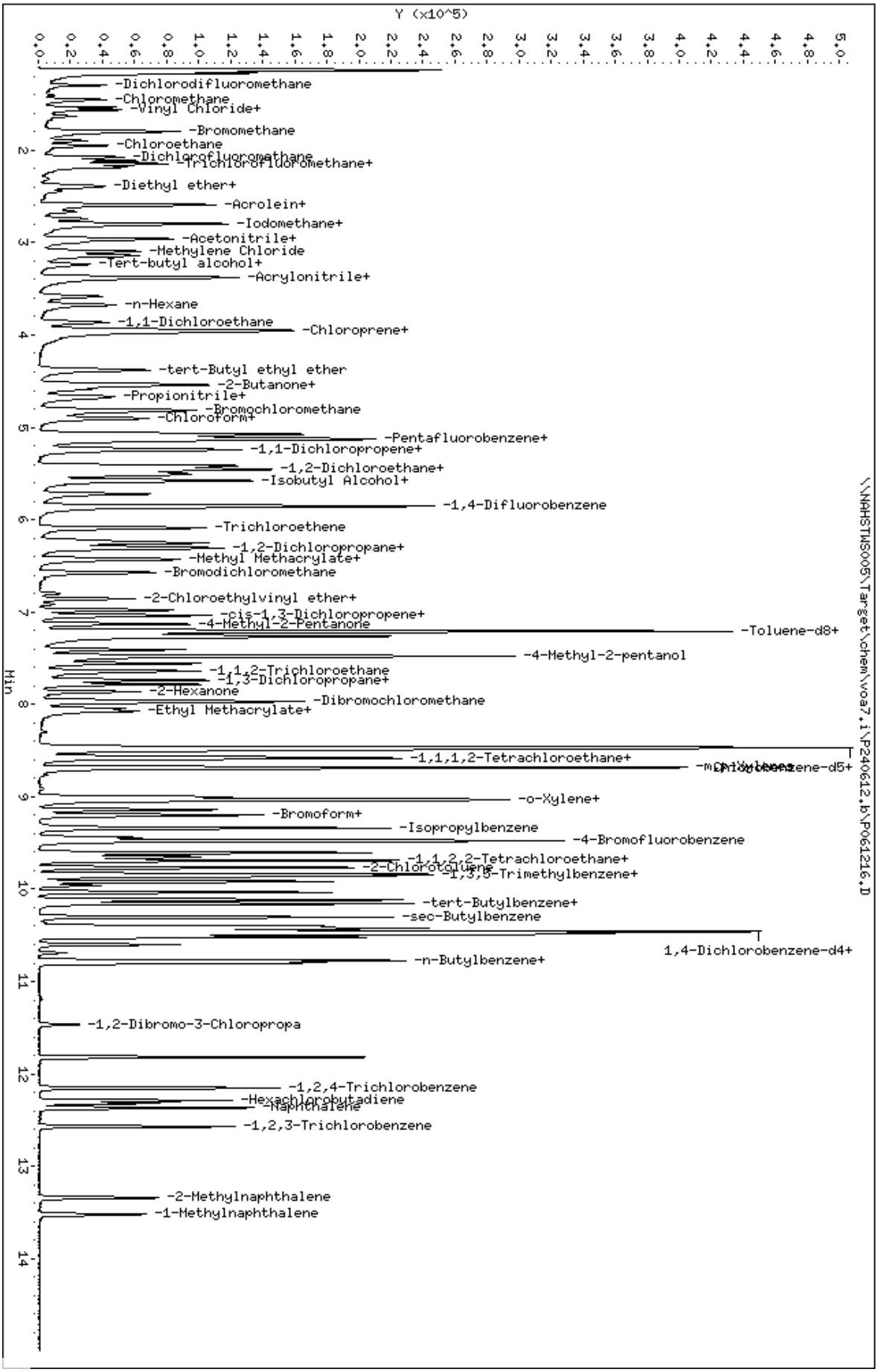
75	1,3,5-Trimethylbenzene	105	9.840	9.840 (0.941)	109357	20.8446	20.84
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	97816	21.0198	21.01

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
77	4-Chlorotoluene	91	9.856	9.859	(0.943)	113306	20.7834	20.78
78	tert-Butylbenzene	119	10.116	10.116	(0.967)	94560	21.3096	21.30
79	1,2,4-Trimethylbenzene	105	10.158	10.158	(0.971)	113166	21.3355	21.33
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	131528	21.4351	21.43
82	p-Isopropyltoluene	119	10.425	10.428	(0.997)	113873	19.8268	19.82
83	1,3-Dichlorobenzene	146	10.403	10.403	(0.995)	62913	20.9751	20.97
84	1,4-Dichlorobenzene	146	10.477	10.480	(1.002)	65114	20.9338	20.93
87	n-Butylbenzene	91	10.772	10.776	(1.030)	108015	20.7540	20.75
88	1,2-Dichlorobenzene	146	10.798	10.798	(1.033)	60835	20.8486	20.84
89	1,2-Dibromo-3-Chloropropane	75	11.464	11.467	(1.096)	6126	20.5128	20.51
90	1,2,4-Trichlorobenzene	180	12.152	12.155	(1.162)	39696	22.2773	22.27
91	Hexachlorobutadiene	225	12.290	12.290	(1.175)	20651	25.1953	25.19
92	Naphthalene	128	12.367	12.367	(1.183)	90347	22.9098	22.90
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	33203	23.5116	23.51
146	Methyl acetate	43	2.991	2.991	(0.583)	21781	20.0355	20.03
138	Freon TF	101	2.593	2.593	(0.505)	26225	19.4141	19.41
139	Diethyl ether	59	2.384	2.380	(0.465)	15472	17.2468	17.24
140	1,3-Butadiene	54	1.564	1.564	(0.305)	13687	17.0846	17.08
141	Cyclohexane	56	5.110	5.110	(0.996)	44340	19.8783	19.87
147	Methylcyclohexane	83	6.252	6.252	(1.068)	40532	19.8008	19.80
132	n-Butanol	56	6.252	6.252	(1.219)	12672	282.069	282.06
131	Methyl Acrylate	55	4.689	4.689	(0.914)	30072	20.9266	20.92
133	Ethyl Acrylate	55	6.223	6.248	(1.213)	75331	19.8083	19.80
136	n-Hexane	57	3.676	3.673	(0.717)	29305	19.6116	19.61
142	Tetrahydrofuran	42	4.863	4.859	(0.948)	9879	41.8637	41.86
148	Tert-butyl alcohol	59	3.236	3.242	(0.631)	42755	464.519	464.51
149	Isopropyl alcohol	45	2.815	2.821	(0.549)	34126	398.654	398.65
151	4-Methyl-2-pentanol	45	7.473	7.480	(0.883)	173921	428.265	428.26
166	1,2,3-Trimethylbenzene	105	10.522	10.522	(1.006)	101561	21.4245	21.42
167	Ethanol	45	2.313	2.329	(0.451)	6483	432.793	432.79
172	tert-Butyl formate	59	3.236	3.242	(0.631)	42755	46.3879	46.38
173	3,3-Dimethyl-1-butanol	57	8.043	8.043	(0.950)	41775	433.552	433.55
174	tert-Amyl methyl ether	73	5.580	5.580	(1.088)	78202	21.3857	21.38
175	tert-Butyl ethyl ether	59	4.380	4.377	(0.854)	80615	20.5479	20.54
157	2-Methylnaphthalene	142	13.341	13.341	(1.276)	35868	25.7711	25.77
156	Diisopropyl ether	45	3.950	3.949	(0.770)	96269	20.1250	20.12
171	1-Methylnaphthalene	142	13.521	13.525	(1.293)	31295	27.2801	27.28
130	Ethyl Acetate	43	3.946	3.946	(0.769)	172142	19.3700	19.36
176	tert-Amyl alcohol	59	5.512	5.518	(1.075)	39960	423.242	423.24(A)
160	Epichlorohydrin	57	6.917	6.914	(1.182)	7461	93.2474	93.24
161	Butyl acrylate	55	8.998	8.997	(1.063)	67009	20.3080	20.30
183	Isopropyl Acetate	43	5.570	5.573	(0.952)	88241	20.6769	20.67(A)
184	n-Amyl acetate	43	9.194	9.197	(1.086)	60294	19.4823	19.48(A)
185	Acetaldehyde	44	1.628	1.631	(0.317)	39008	90.1693	90.16(A)
M 94	1,2-Dichloroethylene (total)	96				58767	38.7457	38.74
M 95	Xylenes (total)	106				157018	61.4448	61.44

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061216.D
Date : 12-JUN-2024 16:40
Client ID: VLCSW-240612
Sample Info: VLCSW-240612;VLCSW-240612;3;;LCS
Purge Volume: 5.0
Column phase: DB624

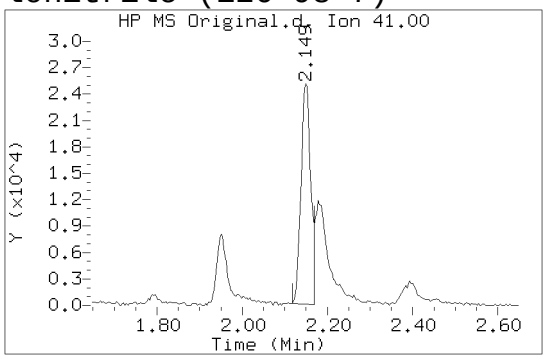
Instrument: voa7.i
Operator: AP
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061216.D
Inj Date : 12-JUN-2024 16:40
InstruID : voa7.i
LabSampID : VLCSW-240612

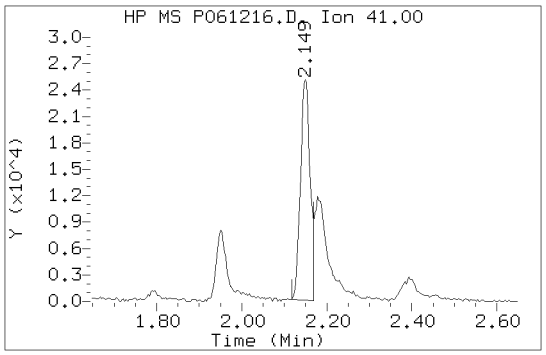
Methacrylonitrile (126-98-7)

Reason Code:

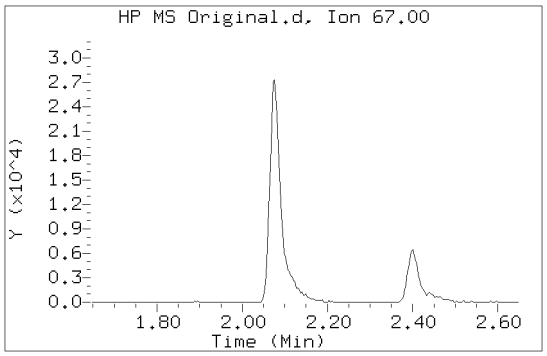
BEFORE
MASS
41
AREA
40282
HEIGHT
25025
22-Jun-2024
12:21
RUCHA
PATEL



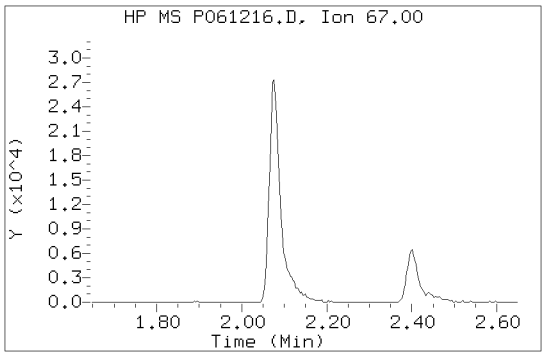
AFTER
MASS
41
AREA
40282
HEIGHT
25025
22-Jun-2024
12:21
RUCHA
PATEL



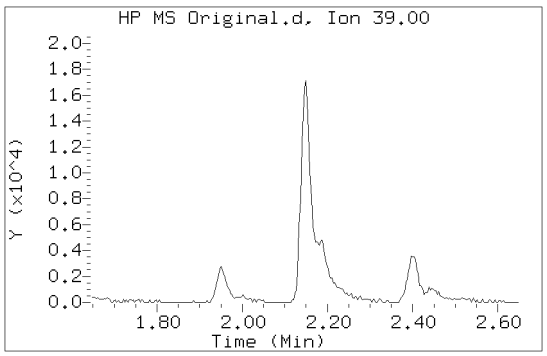
BEFORE
MASS
67
AREA
10217
HEIGHT
5406
22-Jun-2024
12:21
RUCHA
PATEL



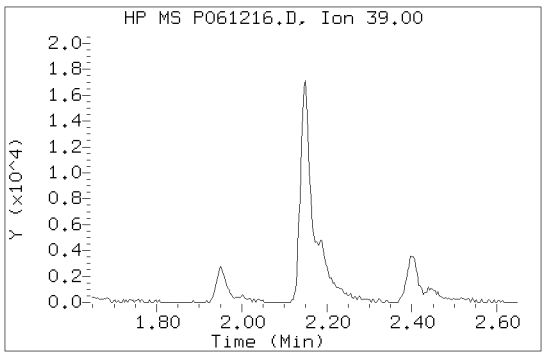
AFTER
MASS
67
AREA
10217
HEIGHT
5406
22-Jun-2024
12:21
RUCHA
PATEL



BEFORE
MASS
39
AREA
6578
HEIGHT
2377
22-Jun-2024
12:21
RUCHA
PATEL



AFTER
MASS
39
AREA
6578
HEIGHT
2377
22-Jun-2024
12:21
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061217.D Page 1
Report Date: 22-Jun-2024 12:22

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061217.D
Lab Smp Id: VLSDW-240612
Inj Date : 12-JUN-2024 17:03
Operator : AP   Inst ID: voa7.i
Smp Info : VLSDW-240612
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240612.b\8260W.m
Meth Date : 22-Jun-2024 12:21 voa7.i   Quant Type: ISTD
Cal Date : 12-JUN-2024 14:46   Cal File: P061211.D
Als bottle: 18   QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	5.129	5.129	(1.000)	134046	50.0000	
2 Dichlorodifluoromethane	85	1.297	1.294	(0.253)	25885	18.6310	18.63
159 Dichlorofluoromethane	67	2.075	2.072	(0.405)	50784	18.3423	18.34
3 Chloromethane	50	1.448	1.451	(0.282)	42465	19.8329	19.83
4 Propionitrile	54	4.673	4.676	(0.911)	36982	205.136	205.13
5 Vinyl Chloride	62	1.535	1.535	(0.299)	35653	19.2523	19.25
6 Bromomethane	94	1.808	1.795	(0.353)	23471	18.5916	18.59
7 Chloroethane	64	1.898	1.888	(0.370)	21970	19.4421	19.44
8 Trichlorofluoromethane	101	2.110	2.110	(0.411)	45850	18.9343	18.93
9 Acrolein	56	2.512	2.515	(0.490)	1975	38.7427	38.74
10 Acetone	43	2.670	2.670	(0.521)	20385	41.3878	41.38
11 1,1-Dichloroethene	96	2.593	2.589	(0.505)	24299	18.8063	18.80
12 Isobutyl Alcohol	43	5.573	5.573	(1.086)	88178	407.050	407.04
13 Acetonitrile	39	2.962	2.959	(0.578)	38007	199.678	199.67
14 Allyl Chloride	41	2.959	2.959	(0.577)	81509	19.9976	19.99
15 Iodomethane	142	2.740	2.740	(0.534)	34807	38.8657	38.86
16 Acrylonitrile	53	3.384	3.380	(0.660)	18920	41.7160	41.71
17 Methylene Chloride	84	3.094	3.094	(0.603)	31839	19.8538	19.85
18 Methyl tert-butyl ether	73	3.384	3.380	(0.660)	65765	19.1556	19.15
19 Carbon Disulfide	76	2.795	2.795	(0.545)	161731	38.5101	38.51

20 trans-1,2-Dichloroethene	96	3.380	3.377 (0.659)	26314	18.3497	18.34
21 Vinyl Acetate	43	4.660	4.660 (0.908)	31513	41.6364	41.63

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
22	1,1-Dichloroethane	63	3.869	3.863	(0.754)	57368	19.7498	19.74
23	Chloroprene	53	3.966	3.962	(0.773)	46918	18.6557	18.65
24	2-Butanone	43	4.593	4.589	(0.895)	25116	39.5143	39.51
25	Methacrylonitrile	41	2.149	2.146	(0.419)	40410	19.1865	19.18(M)
26	2,2-Dichloropropane	77	4.531	4.535	(0.883)	45201	18.2864	18.28
27	cis-1,2-Dichloroethene	96	4.551	4.544	(0.887)	31091	19.5493	19.54
28	Chloroform	83	4.901	4.904	(0.955)	54875	19.1133	19.11
29	Bromochloromethane	128	4.805	4.808	(0.937)	15211	19.6330	19.63
$ 30	Dibromofluoromethane	113	5.075	5.072	(0.989)	70651	49.2365	49.23
31	1,1,1-Trichloroethane	97	5.072	5.072	(0.989)	46742	18.8816	18.88
32	1,1-Dichloropropene	75	5.245	5.245	(0.896)	41091	19.0499	19.04
33	1,2-Dichloroethane	62	5.493	5.493	(0.938)	47212	19.4961	19.49
34	Carbon Tetrachloride	117	5.232	5.236	(0.894)	40067	18.4535	18.45
$ 35	1,2-Dichloroethane-d4	65	5.416	5.416	(1.056)	96488	51.2198	51.21
* 36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	219214	50.0000	
37	Benzene	78	5.457	5.457	(0.932)	114374	19.5283	19.52
38	Trichloroethene	130	6.088	6.088	(1.040)	29426	19.2971	19.29
39	Bromodichloromethane	83	6.570	6.570	(1.122)	42294	19.1332	19.13
40	Methyl Methacrylate	41	6.435	6.435	(1.254)	31184	21.8208	21.82
41	2-Chloroethylvinyl ether	63	6.856	6.856	(1.171)	24949	43.1554	43.15
42	1,2-Dichloropropane	63	6.309	6.309	(1.078)	32972	19.5003	19.50
43	2-Nitropropane	43	6.801	6.801	(1.326)	8373	18.2863	18.28
44	Dibromomethane	93	6.416	6.419	(1.096)	19111	19.9599	19.95
45	4-Methyl-2-Pentanone	43	7.126	7.129	(0.842)	62172	42.1731	42.17
46	cis-1,3-Dichloropropene	75	6.978	6.978	(1.192)	45881	19.0934	19.09
* 47	Chlorobenzene-d5	117	8.467	8.467	(1.000)	196433	50.0000	
$ 48	Toluene-d8	98	7.207	7.207	(0.851)	257433	52.5676	52.56
49	Ethyl Methacrylate	69	8.046	8.043	(1.375)	26766	19.3016	19.30
50	Toluene	91	7.264	7.264	(0.858)	119223	20.2110	20.21
51	trans-1,3-Dichloropropene	75	6.978	6.978	(1.192)	45881	19.0934	19.09
52	2-Hexanone	43	7.859	7.862	(0.928)	43110	42.1732	42.17
53	1,1,2-Trichloroethane	83	7.637	7.641	(0.902)	23769	20.7720	20.77
54	1,3-Dichloropropane	76	7.782	7.782	(0.919)	49724	20.9225	20.92
55	Dibromochloromethane	129	7.975	7.978	(0.942)	31303	20.0085	20.00
56	Tetrachloroethene	164	7.737	7.737	(0.914)	22683	19.9608	19.96
57	1,2-Dibromoethane	107	8.075	8.075	(0.954)	22931	20.9593	20.95
58	1-Chlorohexane	55	8.470	8.470	(1.447)	30174	19.6653	19.66
59	Chlorobenzene	112	8.493	8.493	(1.003)	79142	20.5487	20.54
60	1,1,1,2-Tetrachloroethane	131	8.563	8.567	(1.011)	28529	20.2132	20.21
61	Ethylbenzene	106	8.583	8.586	(1.014)	40086	20.2503	20.25
62	m,p-Xylenes	106	8.682	8.686	(1.025)	101941	40.7350	40.73
63	o-Xylene	106	9.026	9.026	(1.066)	49782	20.6499	20.64
64	Styrene	104	9.039	9.039	(1.068)	82887	20.5474	20.54
66	Bromoform	173	9.206	9.206	(1.087)	20132	20.5247	20.52
67	Isopropylbenzene	105	9.338	9.341	(1.103)	124295	20.3936	20.39
68	1,1,2,2-Tetrachloroethane	83	9.608	9.612	(0.919)	36744	22.0513	22.05
$ 69	4-Bromofluorobenzene	95	9.477	9.477	(1.119)	99388	51.5503	51.55
* 70	1,4-Dichlorobenzene-d4	152	10.457	10.460	(1.000)	94263	50.0000	
71	1,2,3-Trichloropropane	75	9.650	9.650	(0.923)	40684	22.5209	22.52
72	trans-1,4-Dichloro-2-butene	53	9.657	9.660	(1.140)	8736	21.8721	21.87
73	n-Propylbenzene	91	9.689	9.692	(0.927)	151686	21.6954	21.69
74	Bromobenzene	156	9.602	9.605	(0.918)	34280	21.8810	21.88

75	1,3,5-Trimethylbenzene	105	9.837	9.840 (0.941)	105295	21.4853	21.48
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	95907	22.1059	22.10

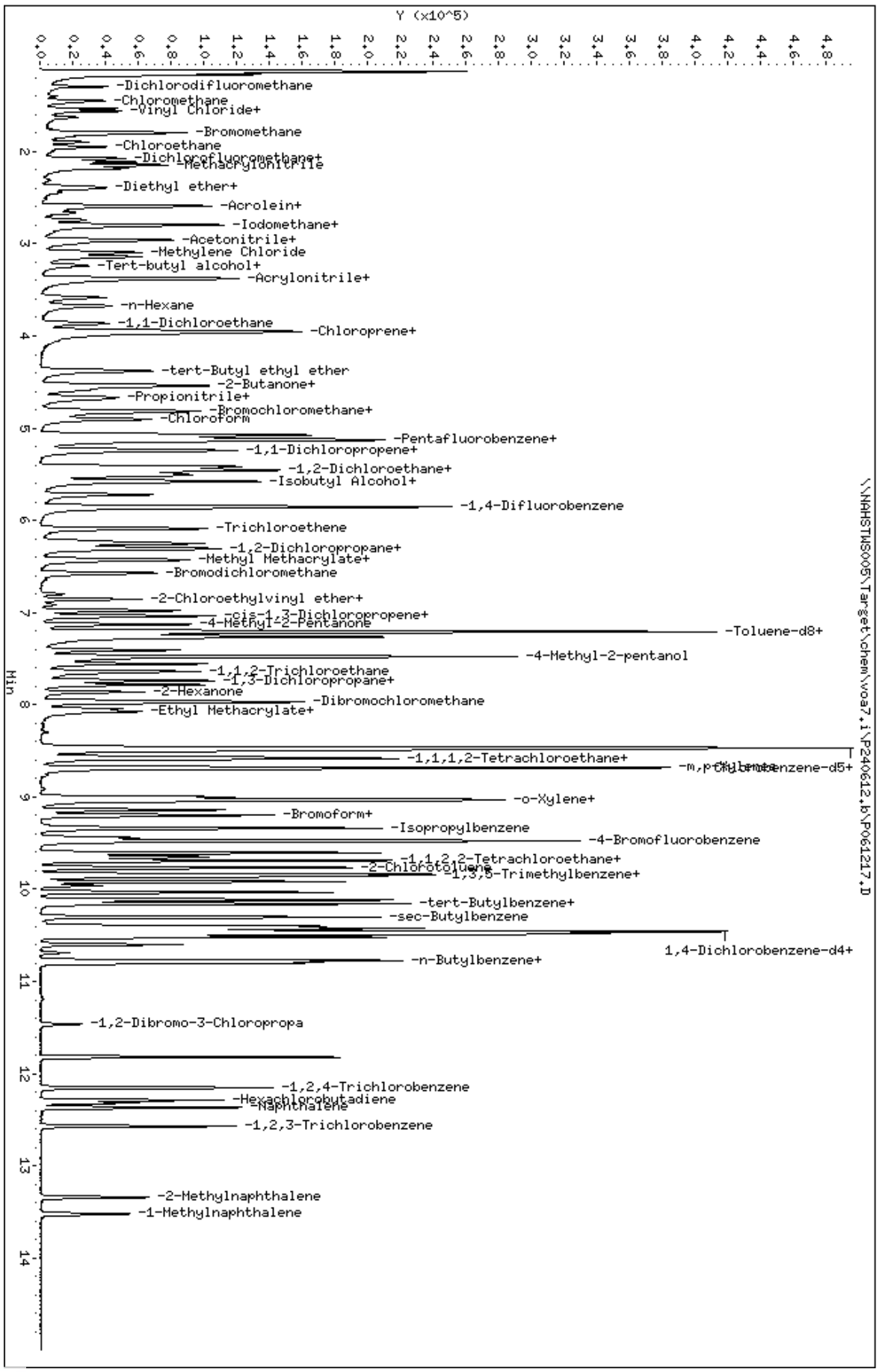
Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061217.D Page 3
Report Date: 22-Jun-2024 12:22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
77	4-Chlorotoluene	91	9.859	9.859	(0.943)	110673	21.7686	21.76
78	tert-Butylbenzene	119	10.116	10.116	(0.967)	91290	22.0386	22.03
79	1,2,4-Trimethylbenzene	105	10.158	10.158	(0.971)	109192	22.0481	22.04
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	124237	21.6620	21.66
82	p-Isopropyltoluene	119	10.425	10.428	(0.997)	106663	19.8602	19.86
83	1,3-Dichlorobenzene	146	10.403	10.403	(0.995)	61792	22.0812	22.08
84	1,4-Dichlorobenzene	146	10.480	10.480	(1.002)	62737	21.6026	21.60
87	n-Butylbenzene	91	10.772	10.776	(1.030)	102364	21.0330	21.03
88	1,2-Dichlorobenzene	146	10.798	10.798	(1.033)	59433	21.8277	21.82
89	1,2-Dibromo-3-Chloropropane	75	11.464	11.467	(1.096)	5844	20.9264	20.92
90	1,2,4-Trichlorobenzene	180	12.155	12.155	(1.162)	38014	22.8112	22.81
91	Hexachlorobutadiene	225	12.287	12.290	(1.175)	18245	23.8045	23.80
92	Naphthalene	128	12.367	12.367	(1.183)	84674	22.9613	22.96
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	29654	22.4695	22.46
146	Methyl acetate	43	2.994	2.991	(0.584)	23465	21.6877	21.68
138	Freon TF	101	2.593	2.593	(0.505)	25373	18.8363	18.83
139	Diethyl ether	59	2.380	2.380	(0.464)	15204	16.9846	16.98
140	1,3-Butadiene	54	1.564	1.564	(0.305)	14582	18.1798	18.17
141	Cyclohexane	56	5.113	5.110	(0.997)	42701	19.1680	19.16
147	Methylcyclohexane	83	6.252	6.252	(1.068)	37866	18.3546	18.35
132	n-Butanol	56	6.248	6.252	(1.218)	18228	406.355	406.35
131	Methyl Acrylate	55	4.686	4.689	(0.914)	30304	21.1343	21.13
133	Ethyl Acrylate	55	6.223	6.248	(1.213)	72625	19.1317	19.13
136	n-Hexane	57	3.673	3.673	(0.716)	28963	19.4287	19.42
142	Tetrahydrofuran	42	4.859	4.859	(0.947)	9130	38.8108	38.81
148	Tert-butyl alcohol	59	3.236	3.242	(0.631)	40674	441.076	441.07
149	Isopropyl alcohol	45	2.818	2.821	(0.549)	34110	399.198	399.19
151	4-Methyl-2-pentanol	45	7.473	7.480	(0.883)	168033	427.713	427.71
166	1,2,3-Trimethylbenzene	105	10.518	10.522	(1.006)	98202	22.2024	22.20
167	Ethanol	45	2.313	2.329	(0.451)	6113	404.926	404.92
172	tert-Butyl formate	59	3.236	3.242	(0.631)	40674	44.0412	44.04
173	3,3-Dimethyl-1-butanol	57	8.046	8.043	(0.950)	37182	398.748	398.74
174	tert-Amyl methyl ether	73	5.583	5.580	(1.088)	78156	21.4132	21.41
175	tert-Butyl ethyl ether	59	4.380	4.377	(0.854)	80493	20.5544	20.55
157	2-Methylnaphthalene	142	13.341	13.341	(1.276)	31309	24.2578	24.25
156	Diisopropyl ether	45	3.949	3.949	(0.770)	95691	20.0415	20.04
171	1-Methylnaphthalene	142	13.521	13.525	(1.293)	26334	24.8130	24.81
130	Ethyl Acetate	43	3.949	3.946	(0.770)	171028	19.2821	19.28
176	tert-Amyl alcohol	59	5.512	5.518	(1.075)	38696	409.330	409.32(A)
160	Epichlorohydrin	57	6.917	6.914	(1.182)	6913	85.4203	85.42
161	Butyl acrylate	55	8.997	8.997	(1.063)	66739	20.8973	20.89
183	Isopropyl Acetate	43	5.573	5.573	(0.952)	88178	20.4027	20.40(A)
184	n-Amyl acetate	43	9.194	9.197	(1.086)	59380	19.8165	19.81(A)
185	Acetaldehyde	44	1.631	1.631	(0.318)	36618	82.0409	82.04(A)
M 94	1,2-Dichloroethylene (total)	96				57405	37.8990	37.89
M 95	Xylenes (total)	106				151723	61.3849	61.38

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa7,i\P240612,b\P061217,D
Date : 12-JUN-2024 17:03
Client ID:
Sample Info: VLSDW-240612
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7,i
Operator: AP
Column diameter: 0.18

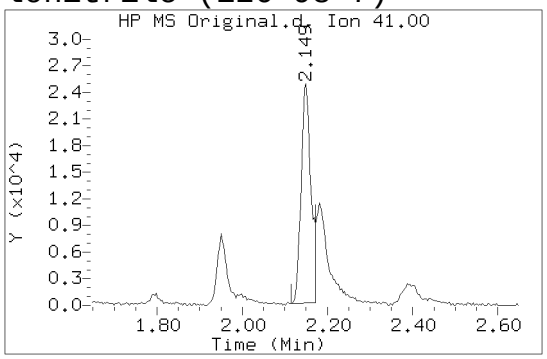
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061217.D
Inj Date : 12-JUN-2024 17:03
InstruID : voa7.i
LabSampID : VLSDW-240612

Methacrylonitrile (126-98-7)

Reason Code:

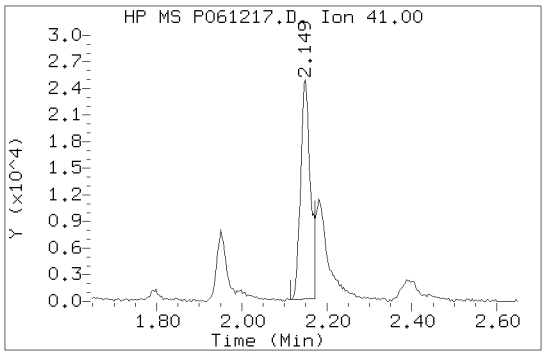
BEFORE

MASS
41
AREA
40410
HEIGHT
24736
22-Jun-2024
12:21
RUCHA
PATEL



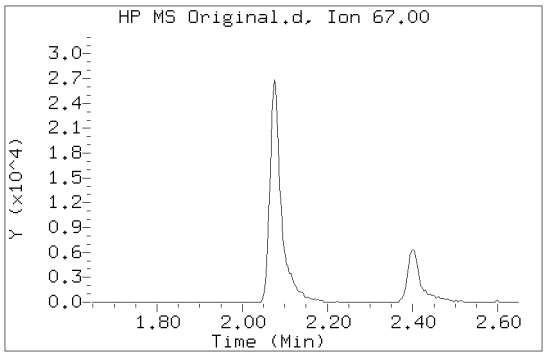
AFTER

MASS
41
AREA
40410
HEIGHT
24736
22-Jun-2024
12:21
RUCHA
PATEL



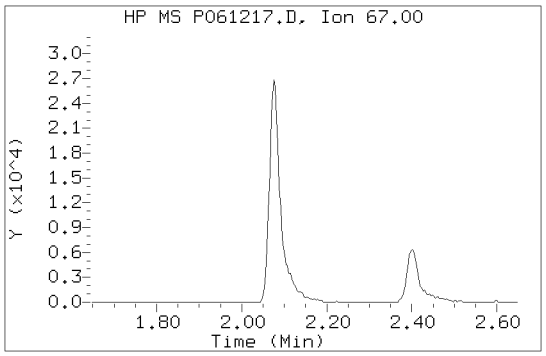
BEFORE

MASS
67
AREA
10199
HEIGHT
5138
22-Jun-2024
12:21
RUCHA
PATEL



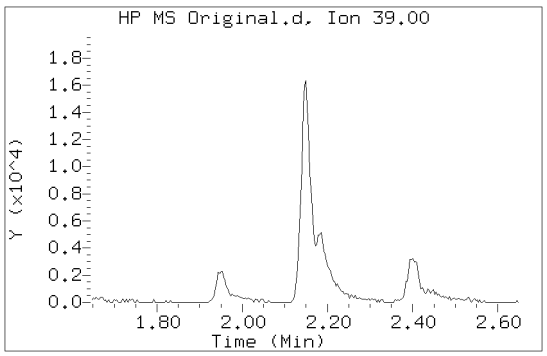
AFTER

MASS
67
AREA
10199
HEIGHT
5138
22-Jun-2024
12:21
RUCHA
PATEL



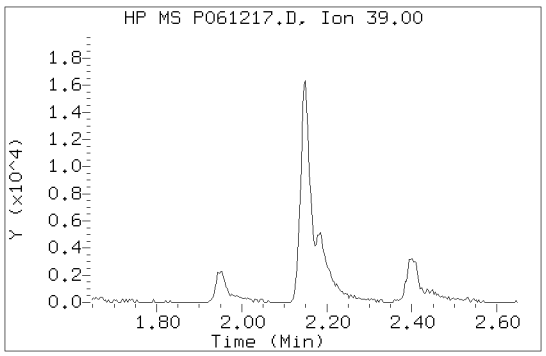
BEFORE

MASS
39
AREA
6438
HEIGHT
2514
22-Jun-2024
12:21
RUCHA
PATEL



AFTER

MASS
39
AREA
6438
HEIGHT
2514
22-Jun-2024
12:21
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061218.D Page 1
Report Date: 22-Jun-2024 12:22

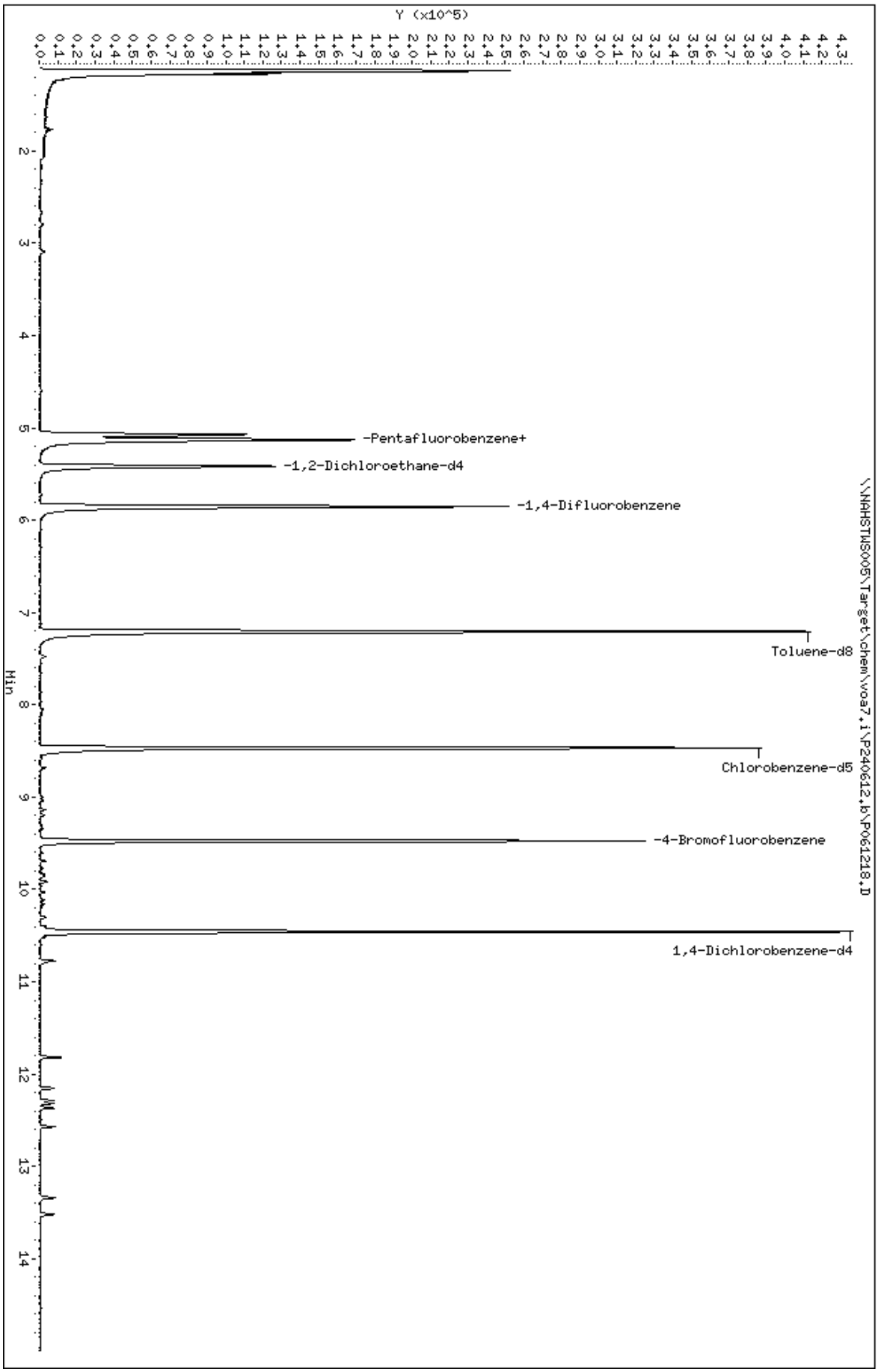
ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061218.D
Lab Smp Id: VBLKW-240612 Client Smp ID: VBLKW-240612
Inj Date : 12-JUN-2024 17:26
Operator : AP Inst ID: voa7.i
Smp Info : VBLKW-240612;VBLKW-240612;3;;BLANK
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240612.b\8260W.m
Meth Date : 22-Jun-2024 12:21 voa7.i Quant Type: ISTD
Cal Date : 12-JUN-2024 14:46 Cal File: P061211.D
Als bottle: 19 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	5.129	5.129	(1.000)	127424	50.0000	
$ 30 Dibromofluoromethane	113	5.072	5.072	(0.989)	76391	56.0644	56.06
$ 35 1,2-Dichloroethane-d4	65	5.419	5.416	(1.056)	99800	55.8010	55.80
* 36 1,4-Difluorobenzene	114	5.853	5.853	(1.000)	212721	50.0000	
* 47 Chlorobenzene-d5	117	8.467	8.467	(1.000)	208419	50.0000	
$ 48 Toluene-d8	98	7.207	7.207	(0.851)	279339	53.7899	53.78
$ 69 4-Bromofluorobenzene	95	9.477	9.477	(1.119)	99606	48.5758	48.57
* 70 1,4-Dichlorobenzene-d4	152	10.460	10.460	(1.000)	106198	50.0000	



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061218.D
Date : 12-JUN-2024 17:26
Client ID: VBLKW-240612
Sample Info: VBLKW-240612;VBLKW-240612;3;;BLANK
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7.i
Operator: AP
Column diameter: 0.18

Page 1

Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061218.D
Inj Date : 12-JUN-2024 17:26
InstruID : voa7.i
LabSampID : VBLKW-240612

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061223.D Page 1
Report Date: 22-Jun-2024 12:22

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061223.D
Lab Smp Id: HS24060214-10MS Client Smp ID: HS24060214-10MS
Inj Date : 12-JUN-2024 19:20
Operator : AP Inst ID: voa7.i
Smp Info : HS24060214-10MS;HS24060214-10MSD;3;;MS
Misc Info : HS220328V7;WATER;0;100;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240612.b\8260W.m
Meth Date : 22-Jun-2024 12:21 voa7.i Quant Type: ISTD
Cal Date : 12-JUN-2024 14:46 Cal File: P061211.D
Als bottle: 23 QC Sample: MS
Dil Factor: 100.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	100.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	5.129	5.129	(1.000)	126879	50.0000	
2 Dichlorodifluoromethane	85	1.294	1.294	(0.252)	24280	18.4611	1846.10
159 Dichlorofluoromethane	67	2.072	2.072	(0.404)	30080	11.4781	1147.80
3 Chloromethane	50	1.448	1.451	(0.282)	39508	19.4810	1948.10
4 Propionitrile	54	4.666	4.676	(0.910)	17607	100.567	10056.67
5 Vinyl Chloride	62	1.535	1.535	(0.299)	33277	18.9822	1898.22
6 Bromomethane	94	1.805	1.795	(0.352)	21411	17.8721	1787.21
7 Chloroethane	64	1.892	1.888	(0.369)	20484	19.1448	1914.48
8 Trichlorofluoromethane	101	2.107	2.110	(0.411)	41444	18.0928	1809.27
9 Acrolein	56	2.515	2.515	(0.490)	1484	31.5598	3155.97
10 Acetone	43	2.663	2.670	(0.519)	13644	27.3908	2739.07
11 1,1-Dichloroethene	96	2.589	2.589	(0.505)	26309	21.5121	2151.21
12 Isobutyl Alcohol	43	5.573	5.573	(1.086)	57094	273.407	27340.72
13 Acetonitrile	39	2.956	2.959	(0.576)	22221	122.409	12240.85
14 Allyl Chloride	41	2.959	2.959	(0.577)	47467	12.1505	1215.05
15 Iodomethane	142	2.737	2.740	(0.534)	28774	34.6511	3465.11
16 Acrylonitrile	53	3.374	3.380	(0.658)	10714	24.7802	2478.02
17 Methylene Chloride	84	3.094	3.094	(0.603)	28983	19.0450	1904.50
18 Methyl tert-butyl ether	73	3.377	3.380	(0.658)	32466	10.4341	1043.40
19 Carbon Disulfide	76	2.792	2.795	(0.544)	145354	36.5855	3658.54

20 trans-1,2-Dichloroethene	96	3.374	3.377 (0.658)	23011	16.9528	1695.28
21 Vinyl Acetate	43	4.657	4.660 (0.908)	22362	30.7260	3072.60

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061223.D Page 2
Report Date: 22-Jun-2024 12:22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
22	1,1-Dichloroethane	63	3.866	3.863	(0.754)	47595	17.2980	1729.79
23	Chloroprene	53	3.959	3.962	(0.772)	41589	17.4709	1747.09
24	2-Butanone	43	4.593	4.589	(0.895)	18886	30.8224	3082.23
25	Methacrylonitrile	41	2.146	2.146	(0.418)	24791	12.8343	1283.43(M)
26	2,2-Dichloropropane	77	4.535	4.535	(0.884)	38566	16.5331	1653.30
27	cis-1,2-Dichloroethene	96	4.544	4.544	(0.886)	36885	24.4981	2449.81
28	Chloroform	83	4.908	4.904	(0.957)	47021	17.2757	1727.57
29	Bromochloromethane	128	4.805	4.808	(0.937)	12406	16.8343	1683.43
$ 30	Dibromofluoromethane	113	5.072	5.072	(0.989)	78639	57.9772	57.97(R)
31	1,1,1-Trichloroethane	97	5.068	5.072	(0.988)	40668	17.3949	1739.49
32	1,1-Dichloropropene	75	5.242	5.245	(0.896)	36508	17.5425	1754.24
33	1,2-Dichloroethane	62	5.490	5.493	(0.938)	38144	16.2393	1623.92
34	Carbon Tetrachloride	117	5.232	5.236	(0.894)	34748	16.6335	1663.35
$ 35	1,2-Dichloroethane-d4	65	5.416	5.416	(1.056)	104052	58.4656	58.46
* 36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	211768	50.0000	
37	Benzene	78	5.454	5.457	(0.932)	100118	17.6653	1766.52
38	Trichloroethene	130	6.088	6.088	(1.040)	132865	90.2100	9020.99
39	Bromodichloromethane	83	6.570	6.570	(1.122)	33889	15.8789	1587.88
40	Methyl Methacrylate	41	6.432	6.435	(1.254)	14631	10.1565	1015.64
41	2-Chloroethylvinyl ether	63	6.853	6.856	(1.171)	6364	10.9884	1098.84
42	1,2-Dichloropropane	63	6.306	6.309	(1.077)	27590	16.8713	1687.12
43	2-Nitropropane	43	6.795	6.801	(1.325)	4580	10.8156	1081.55
44	Dibromomethane	93	6.416	6.419	(1.096)	14805	15.9761	1597.61
45	4-Methyl-2-Pentanone	43	7.129	7.129	(0.842)	43430	27.8111	2781.11
46	cis-1,3-Dichloropropene	75	6.978	6.978	(1.192)	38186	16.5557	1655.56
* 47	Chlorobenzene-d5	117	8.467	8.467	(1.000)	202471	50.0000	
$ 48	Toluene-d8	98	7.207	7.207	(0.851)	293320	58.2466	58.24(R)
49	Ethyl Methacrylate	69	8.043	8.043	(1.374)	5627	4.44335	444.33
50	Toluene	91	7.264	7.264	(0.858)	104158	17.0017	1700.16
51	trans-1,3-Dichloropropene	75	6.978	6.978	(1.192)	38186	16.5557	1655.56
52	2-Hexanone	43	7.859	7.862	(0.928)	29949	27.7567	2775.66
53	1,1,2-Trichloroethane	83	7.637	7.641	(0.902)	18332	15.2423	1524.23
54	1,3-Dichloropropane	76	7.782	7.782	(0.919)	38574	15.4801	1548.00
55	Dibromochloromethane	129	7.975	7.978	(0.942)	24456	15.1164	1511.64
56	Tetrachloroethene	164	7.737	7.737	(0.914)	19239	16.3568	1635.67
57	1,2-Dibromoethane	107	8.068	8.075	(0.953)	18570	16.2493	1624.92
58	1-Chlorohexane	55	8.467	8.470	(1.447)	25853	17.2313	1723.12
59	Chlorobenzene	112	8.493	8.493	(1.003)	65806	16.4265	1642.64
60	1,1,1,2-Tetrachloroethane	131	8.567	8.567	(1.012)	23231	15.9645	1596.44
61	Ethylbenzene	106	8.583	8.586	(1.014)	34860	17.0133	1701.32
62	m,p-Xylenes	106	8.682	8.686	(1.025)	87956	33.9177	3391.77
63	o-Xylene	106	9.023	9.026	(1.066)	41875	16.7304	1673.04
64	Styrene	104	9.039	9.039	(1.068)	69752	16.7160	1671.59
66	Bromoform	173	9.206	9.206	(1.087)	14861	14.7482	1474.82
67	Isopropylbenzene	105	9.338	9.341	(1.103)	107384	17.0131	1701.31
68	1,1,2,2-Tetrachloroethane	83	9.612	9.612	(0.919)	27236	14.4047	1440.47
$ 69	4-Bromofluorobenzene	95	9.473	9.477	(1.119)	112600	56.8698	56.86
* 70	1,4-Dichlorobenzene-d4	152	10.457	10.460	(1.000)	102863	50.0000	
71	1,2,3-Trichloropropane	75	9.647	9.650	(0.923)	30168	14.7285	1472.85
72	trans-1,4-Dichloro-2-butene	53	9.653	9.660	(1.140)	6158	14.9966	1499.66
73	n-Propylbenzene	91	9.689	9.692	(0.927)	127046	16.4036	1640.36
74	Bromobenzene	156	9.602	9.605	(0.918)	27918	15.9636	1596.35

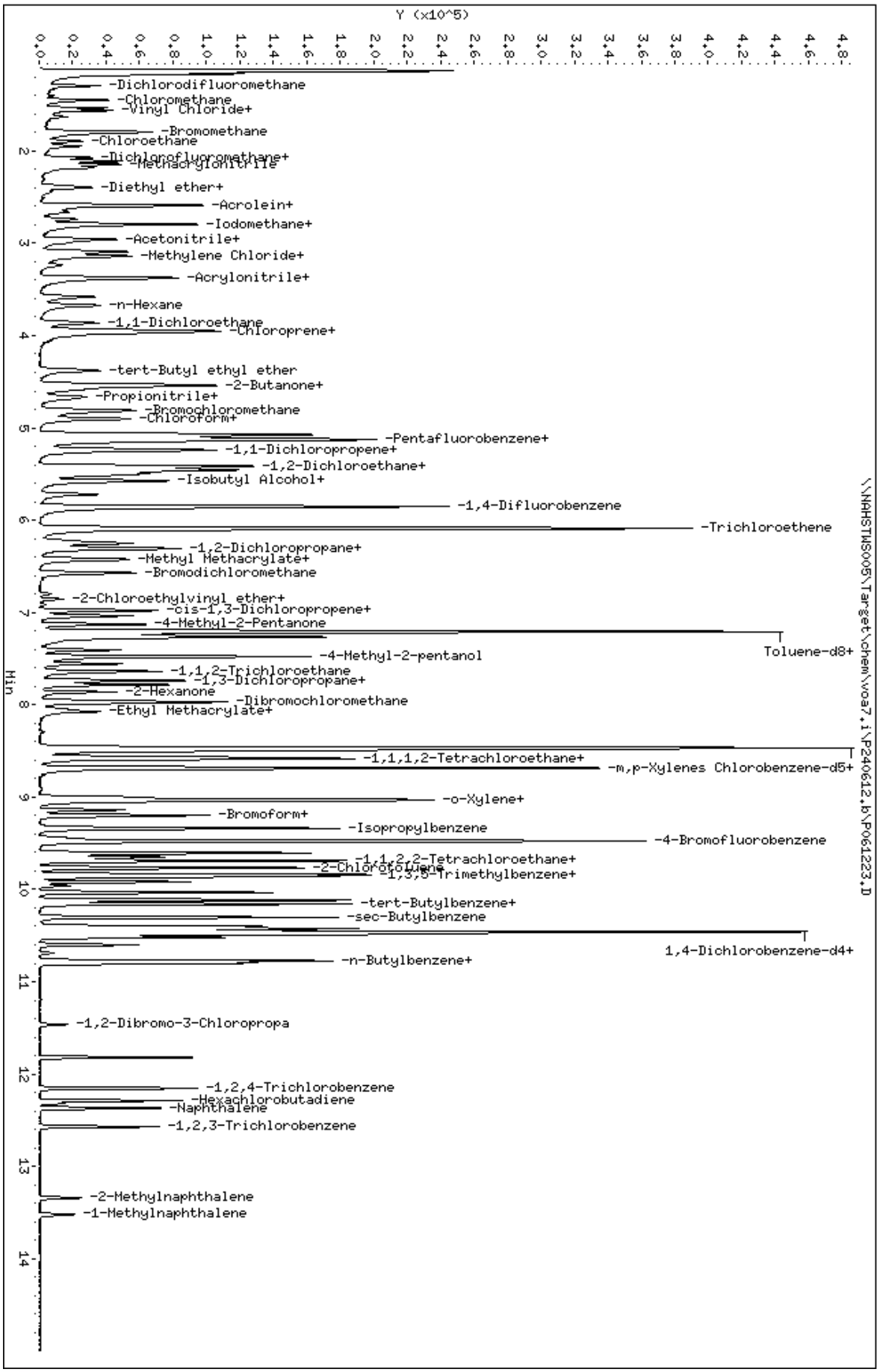
75	1,3,5-Trimethylbenzene	105	9.840	9.840 (0.941)	87182	16.1214	1612.13
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	78222	16.1776	1617.75

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
77	4-Chlorotoluene	91	9.859	9.859	(0.943)	90818	16.0380	1603.80
78	tert-Butylbenzene	119	10.113	10.116	(0.967)	76862	16.7338	1673.37
79	1,2,4-Trimethylbenzene	105	10.158	10.158	(0.971)	87740	15.9595	1595.94
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	104687	16.4990	1649.90
82	p-Isopropyltoluene	119	10.425	10.428	(0.997)	88700	15.1347	1513.47
83	1,3-Dichlorobenzene	146	10.403	10.403	(0.995)	48240	15.5130	1551.30
84	1,4-Dichlorobenzene	146	10.480	10.480	(1.002)	49940	15.4606	1546.05
87	n-Butylbenzene	91	10.772	10.776	(1.030)	80842	15.2221	1522.20
88	1,2-Dichlorobenzene	146	10.798	10.798	(1.033)	44501	14.6532	1465.32
89	1,2-Dibromo-3-Chloropropane	75	11.464	11.467	(1.096)	3878	12.7255	1272.54
90	1,2,4-Trichlorobenzene	180	12.155	12.155	(1.162)	25188	13.8917	1389.17
91	Hexachlorobutadiene	225	12.290	12.290	(1.175)	13743	16.4316	1643.15
92	Naphthalene	128	12.367	12.367	(1.183)	50244	12.4764	1247.63
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	18203	12.7748	1277.47
146	Methyl acetate	43	2.991	2.991	(0.583)	15969	15.3672	1536.72
138	Freon TF	101	2.589	2.593	(0.505)	22168	17.4332	1743.32
139	Diethyl ether	59	2.380	2.380	(0.464)	7542	9.07335	907.33
140	1,3-Butadiene	54	1.561	1.564	(0.304)	12997	17.1669	1716.68
141	Cyclohexane	56	5.110	5.110	(0.996)	36813	17.4317	1743.17
147	Methylcyclohexane	83	6.248	6.252	(1.068)	21634	11.2655	1126.54
132	n-Butanol	56	6.252	6.252	(1.219)	7464	175.957	17595.72
131	Methyl Acrylate	55	4.692	4.689	(0.915)	14601	10.3625	1036.24
133	Ethyl Acrylate	55	6.248	6.248	(1.218)	21995	6.12146	612.14
136	n-Hexane	57	3.670	3.673	(0.715)	23841	17.0347	1703.46
142	Tetrahydrofuran	42	4.863	4.859	(0.948)	4795	21.8372	2183.71
148	Tert-butyl alcohol	59	3.236	3.242	(0.631)	17412	177.761	17776.11
149	Isopropyl alcohol	45	2.818	2.821	(0.549)	14666	180.194	18019.40
151	4-Methyl-2-pentanol	45	7.477	7.480	(0.883)	73065	182.382	18238.18
166	1,2,3-Trimethylbenzene	105	10.518	10.522	(1.006)	52018	10.0361	1003.61
167	Ethanol	45	2.313	2.329	(0.451)	2547	138.677	13867.71
172	tert-Butyl formate	59	3.236	3.242	(0.631)	17412	17.6813	1768.13
173	3,3-Dimethyl-1-butanol	57	8.046	8.043	(0.950)	13454	135.378	13537.81
174	tert-Amyl methyl ether	73	5.580	5.580	(1.088)	37978	10.5235	1052.34
175	tert-Butyl ethyl ether	59	4.377	4.377	(0.853)	40728	10.7872	1078.71
157	2-Methylnaphthalene	142	13.341	13.341	(1.276)	11433	10.1307	1013.07
156	Diisopropyl ether	45	3.949	3.949	(0.770)	48655	10.8537	1085.37
171	1-Methylnaphthalene	142	13.521	13.525	(1.293)	10123	10.4520	1045.20
130	Ethyl Acetate	43	3.946	3.946	(0.769)	121811	14.6324	1463.24
176	tert-Amyl alcohol	59	5.512	5.518	(1.075)	16005	154.861	15486.10(A)
160	Epichlorohydrin	57	6.911	6.914	(1.181)	3097	39.5146	3951.46
161	Butyl acrylate	55	8.998	8.997	(1.063)	32105	9.94068	994.06
183	Isopropyl Acetate	43	5.573	5.573	(0.952)	57094	13.3482	1334.81(A)
184	n-Amyl acetate	43	9.194	9.197	(1.086)	42050	13.9096	1390.96(A)
185	Acetaldehyde	44	1.628	1.631	(0.317)	16951	21.7834	2178.33(A)
M 94	1,2-Dichloroethylene (total)	96				59896	41.4510	4145.09
M 95	Xylenes (total)	106				129831	50.6481	5064.81

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.



Data File: \\NAHSTMS005\Target\chem\voa7.i\P240612.b\P061223.D
Date : 12-JUN-2024 19:20
Client ID: HS2406214-10MS
Sample Info: HS2406214-10MS;HS2406214-10MSD;3;;MS
Purge Volume: 5.0
Column phase: DB624

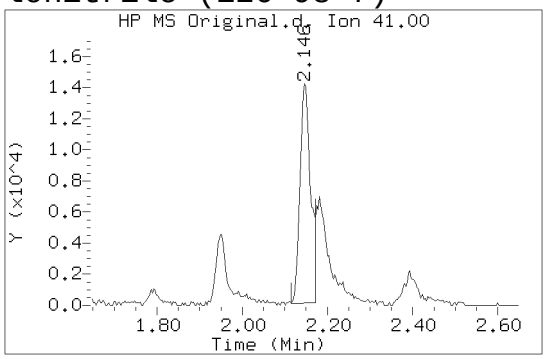
Instrument: voa7.i
Operator: AP
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061223.D
Inj Date : 12-JUN-2024 19:20
InstruID : voa7.i
LabSampID : HS24060214-10MS

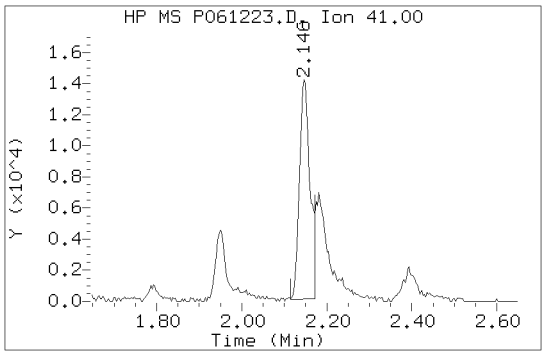
Methacrylonitrile (126-98-7)

Reason Code:

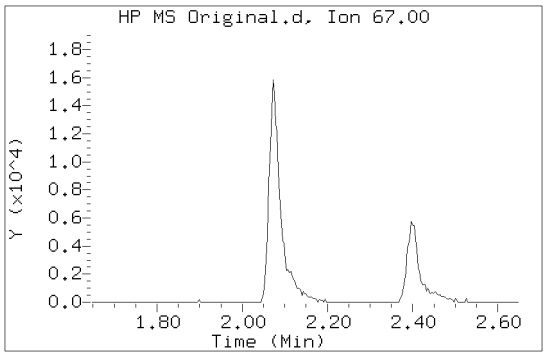
BEFORE
MASS
41
AREA
24791
HEIGHT
14106
22-Jun-2024
12:21
RUCHA
PATEL



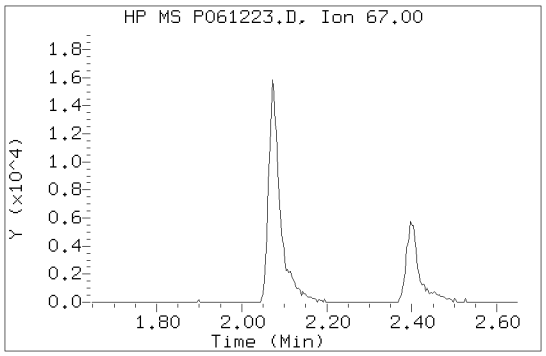
AFTER
MASS
41
AREA
24791
HEIGHT
14106
22-Jun-2024
12:21
RUCHA
PATEL



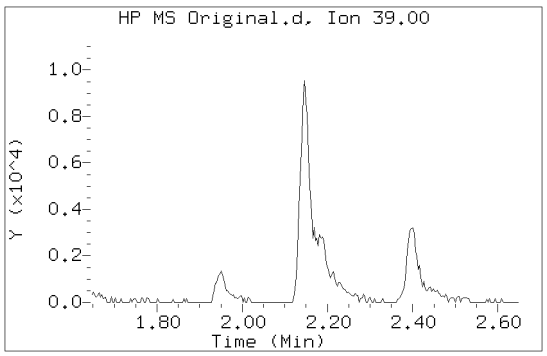
BEFORE
MASS
67
AREA
0
HEIGHT
0
22-Jun-2024
12:21
RUCHA
PATEL



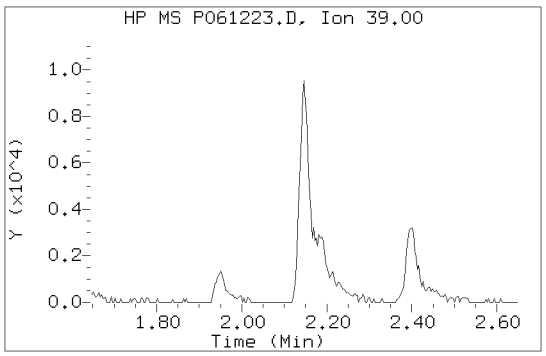
AFTER
MASS
67
AREA
0
HEIGHT
0
22-Jun-2024
12:21
RUCHA
PATEL



BEFORE
MASS
39
AREA
0
HEIGHT
0
22-Jun-2024
12:21
RUCHA
PATEL



AFTER
MASS
39
AREA
0
HEIGHT
0
22-Jun-2024
12:21
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061224.D Page 1
Report Date: 22-Jun-2024 12:22

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061224.D
Lab Smp Id: HS24060214-10MSD
Inj Date : 12-JUN-2024 19:43
Operator : AP   Inst ID: voa7.i
Smp Info : HS24060214-10MSD
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240612.b\8260W.m
Meth Date : 22-Jun-2024 12:21 voa7.i   Quant Type: ISTD
Cal Date : 12-JUN-2024 14:46   Cal File: P061211.D
Als bottle: 24   QC Sample: MSD
Dil Factor: 100.00000
Integrator: HP RTE   Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	100.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1	Pentafluorobenzene	168	5.129	5.129	(1.000)	125990	50.0000	
2	Dichlorodifluoromethane	85	1.294	1.294	(0.252)	31960	24.5400	2453.99
159	Dichlorofluoromethane	67	2.072	2.072	(0.404)	38230	14.6909	1469.09
3	Chloromethane	50	1.448	1.451	(0.282)	47991	24.0022	2400.21
4	Propionitrile	54	4.670	4.676	(0.910)	21362	124.042	12404.22
5	Vinyl Chloride	62	1.535	1.535	(0.299)	41622	23.9490	2394.89
6	Bromomethane	94	1.805	1.795	(0.352)	26890	22.9700	2297.00
7	Chloroethane	64	1.895	1.888	(0.369)	25607	24.2089	2420.89
8	Trichlorofluoromethane	101	2.110	2.110	(0.411)	55643	24.3753	2437.52
9	Acrolein	56	2.512	2.515	(0.490)	1504	32.1281	3212.81
10	Acetone	43	2.663	2.670	(0.519)	17223	36.5565	3655.65
11	1,1-Dichloroethene	96	2.593	2.589	(0.505)	32465	26.7331	2673.30
12	Isobutyl Alcohol	43	5.573	5.573	(1.086)	74735	365.486	36548.61
13	Acetonitrile	39	2.959	2.959	(0.577)	28330	157.852	15785.21
14	Allyl Chloride	41	2.959	2.959	(0.577)	55948	14.4969	1449.68
15	Iodomethane	142	2.740	2.740	(0.534)	44622	50.8793	5087.92
16	Acrylonitrile	53	3.374	3.380	(0.658)	11506	26.8357	2683.57
17	Methylene Chloride	84	3.094	3.094	(0.603)	36136	24.2386	2423.85
18	Methyl tert-butyl ether	73	3.377	3.380	(0.658)	44047	13.9164	1391.64
19	Carbon Disulfide	76	2.795	2.795	(0.545)	183462	46.3962	4639.62

20 trans-1,2-Dichloroethene	96	3.374	3.377 (0.658)	29193	21.6591	2165.90
21 Vinyl Acetate	43	4.657	4.660 (0.908)	28339	39.7526	3975.25

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061224.D Page 2
Report Date: 22-Jun-2024 12:22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
22	1,1-Dichloroethane	63	3.863	3.863	(0.753)	63826	23.3973	2339.73
23	Chloroprene	53	3.959	3.962	(0.772)	54177	22.9195	2291.95
24	2-Butanone	43	4.589	4.589	(0.895)	23756	39.7820	3978.19
25	Methacrylonitrile	41	2.146	2.146	(0.418)	30098	15.4394	1543.94(M)
26	2,2-Dichloropropane	77	4.531	4.535	(0.883)	51269	21.9635	2196.35
27	cis-1,2-Dichloroethene	96	4.541	4.544	(0.885)	45266	30.2727	3027.26
28	Chloroform	83	4.904	4.904	(0.956)	61738	22.9352	2293.52
29	Bromochloromethane	128	4.805	4.808	(0.937)	16339	22.5228	2252.27
$ 30	Dibromofluoromethane	113	5.075	5.072	(0.989)	81823	60.7715	60.77(R)
31	1,1,1-Trichloroethane	97	5.068	5.072	(0.988)	52427	22.4391	2243.91
32	1,1-Dichloropropene	75	5.242	5.245	(0.896)	47517	22.7369	2273.69
33	1,2-Dichloroethane	62	5.493	5.493	(0.938)	50166	21.4728	2147.28
34	Carbon Tetrachloride	117	5.235	5.236	(0.895)	45598	21.6110	2161.10
$ 35	1,2-Dichloroethane-d4	65	5.416	5.416	(1.056)	105906	59.9470	59.94
* 36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	211883	50.0000	
37	Benzene	78	5.454	5.457	(0.932)	127947	22.6518	2265.18
38	Trichloroethene	130	6.088	6.088	(1.040)	136365	92.5362	9253.62
39	Bromodichloromethane	83	6.570	6.570	(1.122)	45198	21.1488	2114.88
40	Methyl Methacrylate	41	6.432	6.435	(1.254)	20028	14.4963	1449.62
41	2-Chloroethylvinyl ether	63	6.853	6.856	(1.171)	7658	13.3533	1335.33
42	1,2-Dichloropropane	63	6.306	6.309	(1.077)	36497	22.3534	2235.33
43	2-Nitropropane	43	6.798	6.801	(1.325)	5747	13.5123	1351.22
44	Dibromomethane	93	6.419	6.419	(1.097)	19115	20.6601	2066.01
45	4-Methyl-2-Pentanone	43	7.126	7.129	(0.842)	55159	36.1938	3619.37
46	cis-1,3-Dichloropropene	75	6.978	6.978	(1.192)	48600	20.8513	2085.13
* 47	Chlorobenzene-d5	117	8.467	8.467	(1.000)	201283	50.0000	
$ 48	Toluene-d8	98	7.206	7.207	(0.851)	299964	59.9548	59.95(R)
49	Ethyl Methacrylate	69	8.049	8.043	(1.375)	11894	9.08416	908.41
50	Toluene	91	7.264	7.264	(0.858)	137064	22.7787	2277.87
51	trans-1,3-Dichloropropene	75	6.978	6.978	(1.192)	48600	20.8513	2085.13
52	2-Hexanone	43	7.859	7.862	(0.928)	37752	35.7439	3574.39
53	1,1,2-Trichloroethane	83	7.637	7.641	(0.902)	24625	21.0147	2101.47
54	1,3-Dichloropropane	76	7.782	7.782	(0.919)	50655	20.7943	2079.43
55	Dibromochloromethane	129	7.975	7.978	(0.942)	32397	20.2108	2021.08
56	Tetrachloroethene	164	7.740	7.737	(0.914)	25574	22.0013	2200.13
57	1,2-Dibromoethane	107	8.071	8.075	(0.953)	23911	21.3463	2134.62
58	1-Chlorohexane	55	8.470	8.470	(1.447)	34121	23.3232	2332.32
59	Chlorobenzene	112	8.489	8.493	(1.003)	87092	22.1254	2212.54
60	1,1,1,2-Tetrachloroethane	131	8.563	8.567	(1.011)	30270	20.9306	2093.06
61	Ethylbenzene	106	8.583	8.586	(1.014)	46723	23.0975	2309.74
62	m,p-Xylenes	106	8.682	8.686	(1.025)	118241	46.2564	4625.63
63	o-Xylene	106	9.023	9.026	(1.066)	56526	22.9539	2295.39
64	Styrene	104	9.039	9.039	(1.068)	91686	22.2069	2220.68
66	Bromoform	173	9.203	9.206	(1.087)	19757	19.6643	1966.43
67	Isopropylbenzene	105	9.338	9.341	(1.103)	143918	23.1088	2310.87
68	1,1,2,2-Tetrachloroethane	83	9.608	9.612	(0.919)	35309	18.6853	1868.53
$ 69	4-Bromofluorobenzene	95	9.473	9.477	(1.119)	114027	57.9696	57.96
* 70	1,4-Dichlorobenzene-d4	152	10.460	10.460	(1.000)	105473	50.0000	
71	1,2,3-Trichloropropane	75	9.647	9.650	(0.922)	38591	18.8187	1881.86
72	trans-1,4-Dichloro-2-butene	53	9.657	9.660	(1.141)	8373	20.4661	2046.60
73	n-Propylbenzene	91	9.689	9.692	(0.926)	172187	22.0256	2202.56
74	Bromobenzene	156	9.602	9.605	(0.918)	36742	20.8990	2089.90

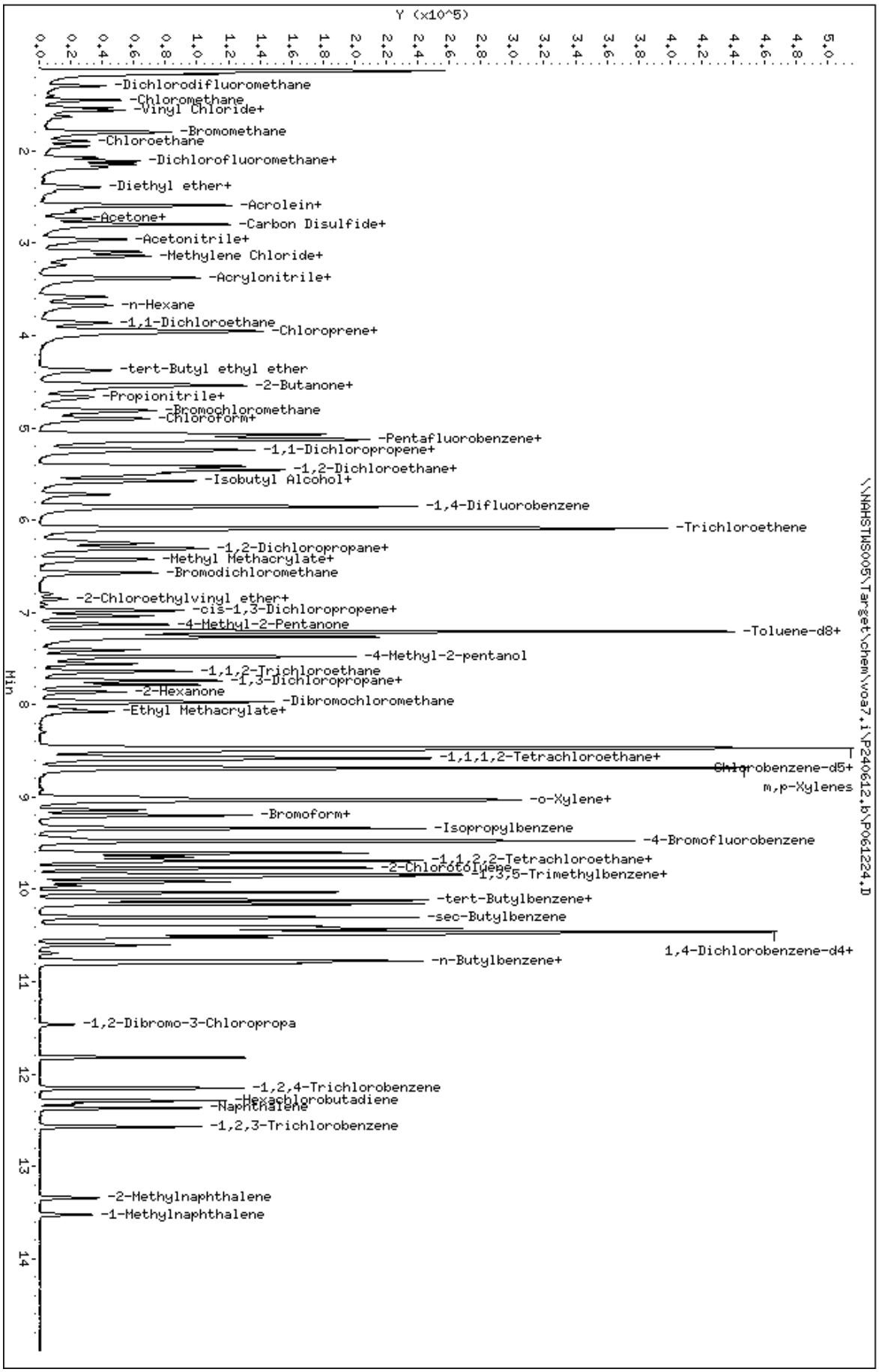
75	1,3,5-Trimethylbenzene	105	9.840	9.840 (0.941)	119320	21.7689	2176.89
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	106255	21.8747	2187.46

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
77	4-Chlorotoluene	91	9.859	9.859	(0.943)	121026	21.2446	2124.45
78	tert-Butylbenzene	119	10.116	10.116	(0.967)	104526	22.5796	2257.95
79	1,2,4-Trimethylbenzene	105	10.155	10.158	(0.971)	121106	21.8455	2184.55
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	142436	22.2203	2222.02
82	p-Isopropyltoluene	119	10.425	10.428	(0.997)	121804	20.2689	2026.89
83	1,3-Dichlorobenzene	146	10.402	10.403	(0.994)	64990	20.6957	2069.57
84	1,4-Dichlorobenzene	146	10.476	10.480	(1.002)	67152	20.6175	2061.75
87	n-Butylbenzene	91	10.775	10.776	(1.030)	111279	20.4347	2043.46
88	1,2-Dichlorobenzene	146	10.798	10.798	(1.032)	62396	20.4166	2041.66
89	1,2-Dibromo-3-Chloropropane	75	11.467	11.467	(1.096)	5171	16.5485	1654.85
90	1,2,4-Trichlorobenzene	180	12.155	12.155	(1.162)	35194	18.8923	1889.23
91	Hexachlorobutadiene	225	12.290	12.290	(1.175)	19650	22.9128	2291.27
92	Naphthalene	128	12.370	12.367	(1.183)	69160	16.7555	1675.55
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	26159	17.7800	1777.99
146	Methyl acetate	43	2.991	2.991	(0.583)	20173	19.7687	1976.86
138	Freon TF	101	2.589	2.593	(0.505)	29260	22.9733	2297.33
139	Diethyl ether	59	2.377	2.380	(0.463)	12658	15.0859	1508.59
140	1,3-Butadiene	54	1.560	1.564	(0.304)	17432	22.8996	2289.95
141	Cyclohexane	56	5.107	5.110	(0.996)	49445	23.6839	2368.39
147	Methylcyclohexane	83	6.248	6.252	(1.068)	27583	14.0801	1408.01
132	n-Butanol	56	6.245	6.252	(1.217)	9734	230.999	23099.91
131	Methyl Acrylate	55	4.692	4.689	(0.915)	18702	13.6002	1360.02
133	Ethyl Acrylate	55	6.248	6.248	(1.218)	29036	8.13807	813.80
136	n-Hexane	57	3.673	3.673	(0.716)	28373	20.2050	2020.49
142	Tetrahydrofuran	42	4.866	4.859	(0.949)	5998	27.3320	2733.19
148	Tert-butyl alcohol	59	3.236	3.242	(0.631)	21432	230.221	23022.05
149	Isopropyl alcohol	45	2.821	2.821	(0.550)	16929	209.806	20980.58
151	4-Methyl-2-pentanol	45	7.473	7.480	(0.883)	85888	215.041	21504.08
166	1,2,3-Trimethylbenzene	105	10.518	10.522	(1.006)	69994	13.6200	1362.00
167	Ethanol	45	2.310	2.329	(0.450)	2977	175.748	17574.84
172	tert-Butyl formate	59	3.236	3.242	(0.631)	21432	22.9331	2293.30
173	3,3-Dimethyl-1-butanol	57	8.046	8.043	(0.950)	16249	166.306	16630.62
174	tert-Amyl methyl ether	73	5.576	5.580	(1.087)	49019	13.9826	1398.25
175	tert-Butyl ethyl ether	59	4.377	4.377	(0.853)	53045	14.2943	1429.43
157	2-Methylnaphthalene	142	13.341	13.341	(1.275)	17894	13.8707	1387.07
156	Diisopropyl ether	45	3.946	3.949	(0.769)	65089	14.5563	1455.63
171	1-Methylnaphthalene	142	13.525	13.525	(1.293)	15767	14.5055	1450.55
130	Ethyl Acetate	43	3.946	3.946	(0.769)	158785	19.0526	1905.25
176	tert-Amyl alcohol	59	5.515	5.518	(1.075)	19031	193.858	19385.79(A)
160	Epichlorohydrin	57	6.914	6.914	(1.181)	3904	49.8978	4989.77
161	Butyl acrylate	55	8.997	8.997	(1.063)	42673	13.1722	1317.21
183	Isopropyl Acetate	43	5.573	5.573	(0.952)	74735	17.7685	1776.85(A)
184	n-Amyl acetate	43	9.194	9.197	(1.086)	55659	18.2075	1820.75(A)
185	Acetaldehyde	44	1.631	1.631	(0.318)	31610	71.7854	7178.54(A)
M 94	1,2-Dichloroethylene (total)	96				74459	51.9317	5193.17
M 95	Xylenes (total)	106				174767	69.2103	6921.02

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061224.D
Date : 12-JUN-2024 19:43
Client ID:
Sample Info: HS2406214-10HSD
Purge Volume: 5.0
Column phase: DB624

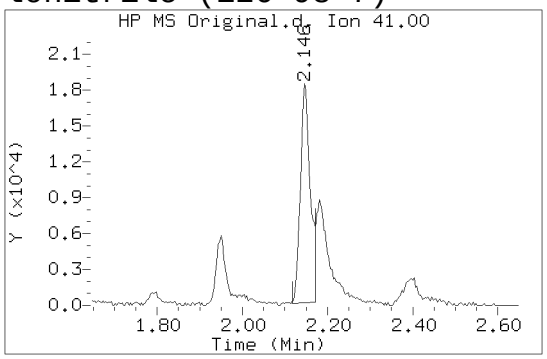
Instrument: voa7.i
Operator: AP
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061224.D
Inj Date : 12-JUN-2024 19:43
InstruID : voa7.i
LabSampID : HS24060214-10MSD

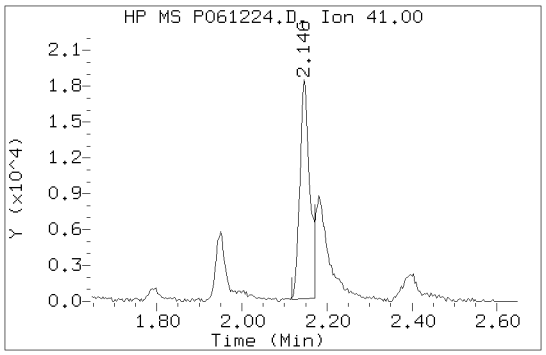
Methacrylonitrile (126-98-7)

Reason Code:

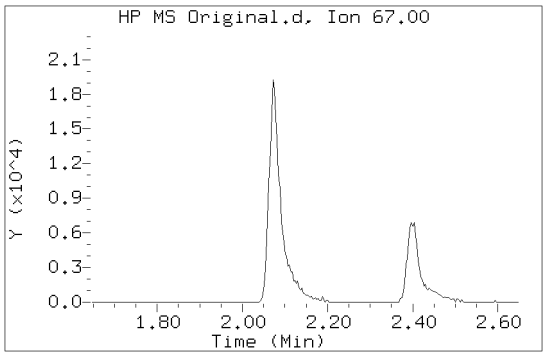
BEFORE
MASS
41
AREA
30098
HEIGHT
18315
22-Jun-2024
12:21
RUCHA
PATEL



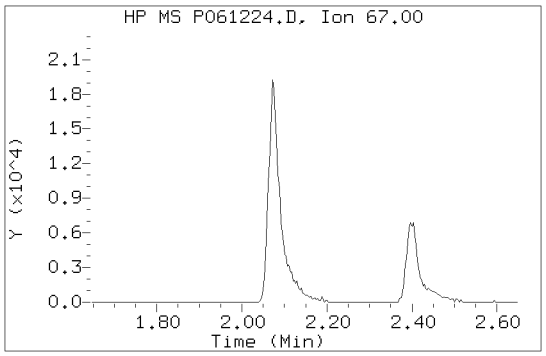
AFTER
MASS
41
AREA
30098
HEIGHT
18315
22-Jun-2024
12:21
RUCHA
PATEL



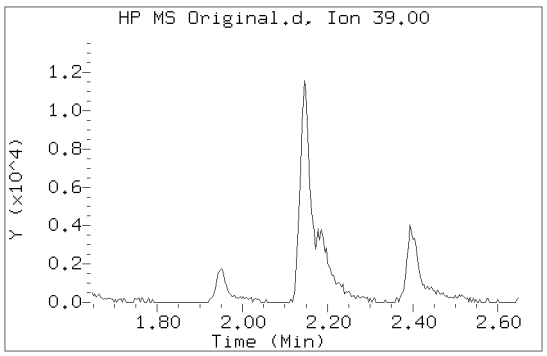
BEFORE
MASS
67
AREA
0
HEIGHT
0
22-Jun-2024
12:21
RUCHA
PATEL



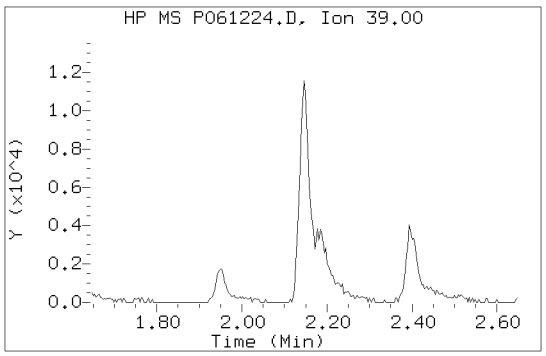
AFTER
MASS
67
AREA
0
HEIGHT
0
22-Jun-2024
12:21
RUCHA
PATEL



BEFORE
MASS
39
AREA
0
HEIGHT
0
22-Jun-2024
12:21
RUCHA
PATEL



AFTER
MASS
39
AREA
0
HEIGHT
0
22-Jun-2024
12:21
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061229.D Page 1
Report Date: 15-Jul-2024 11:28

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061229.D
Lab Smp Id: HS24060434-02
Inj Date : 12-JUN-2024 21:38
Operator : AP   Inst ID: voa7.i
Smp Info : HS24060434-02
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240612.b\8260W.m
Meth Date : 15-Jul-2024 11:28 s.zaid   Quant Type: ISTD
Cal Date : 12-JUN-2024 14:46   Cal File: P061211.D
Als bottle: 29
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

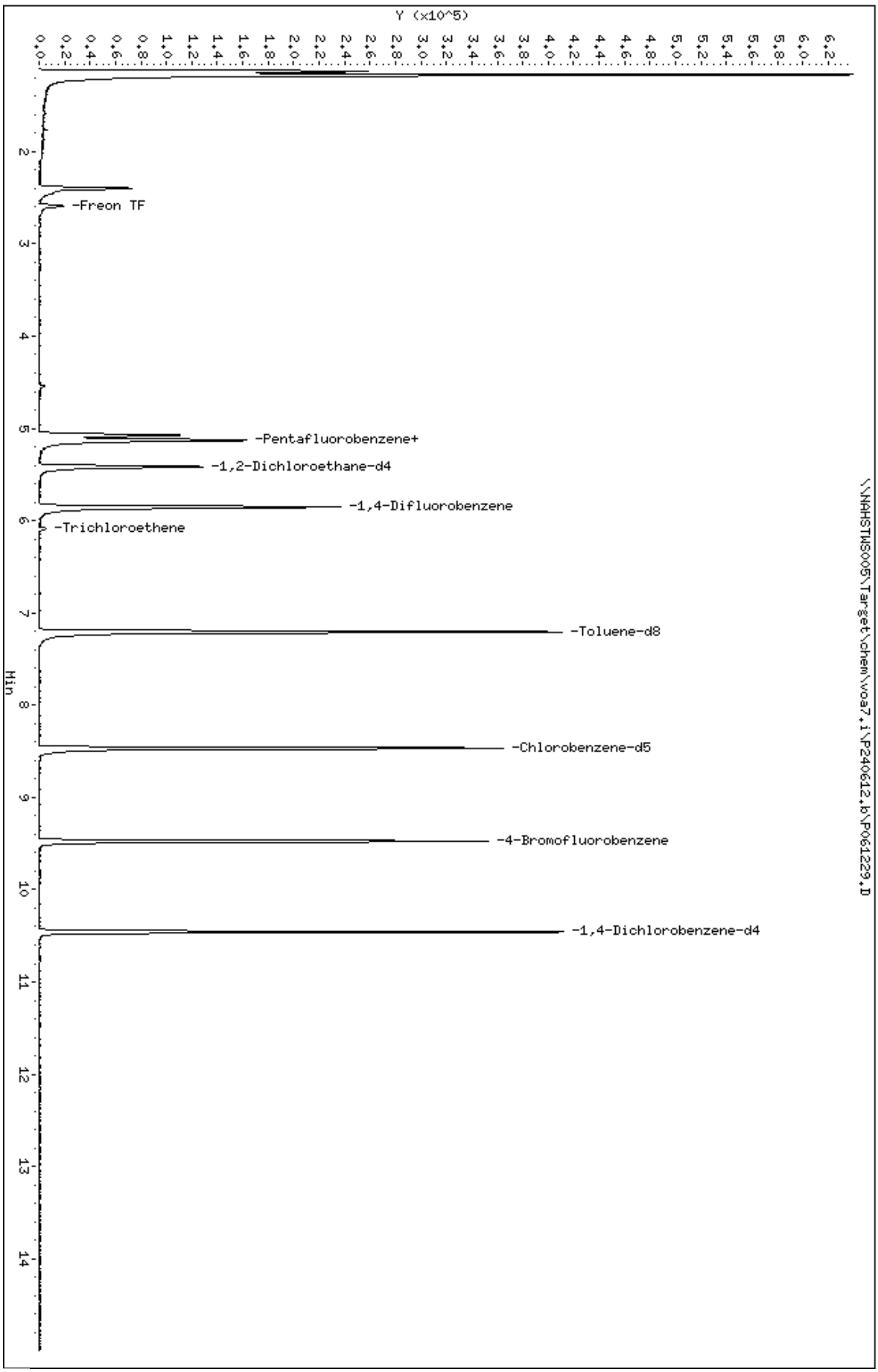
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	5.130	5.130	(1.000)	125968	50.0000	
$ 30 Dibromofluoromethane	113	5.068	5.072	(0.988)	78396	58.2178	58.21(R)
$ 35 1,2-Dichloroethane-d4	65	5.416	5.416	(1.056)	101106	57.2043	57.20
* 36 1,4-Difluorobenzene	114	5.853	5.853	(1.000)	206703	50.0000	
38 Trichloroethene	130	6.088	6.088	(1.040)	1908	1.32302	1.32
* 47 Chlorobenzene-d5	117	8.467	8.467	(1.000)	202738	50.0000	
$ 48 Toluene-d8	98	7.203	7.207	(0.851)	280835	55.6369	55.63(M)
$ 69 4-Bromofluorobenzene	95	9.473	9.477	(1.119)	107061	53.8950	53.89
* 70 1,4-Dichlorobenzene-d4	152	10.461	10.461	(1.000)	97777	50.0000	
138 Freon TF	101	2.589	2.593	(0.505)	10074	8.30821	8.30
141 Cyclohexane	56	5.133	5.110	(1.001)	2494	0.91080	0.91(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.



Data File: \\NAHSTMS005\Target\chem\voa7.i\P240612.b\P061229.D
Date : 12-JUN-2024 21:38
Client ID:
Sample Info: HS2406043-02
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7.i
Operator: AP
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061229.D Page 2

Date : 12-JUN-2024 21:38

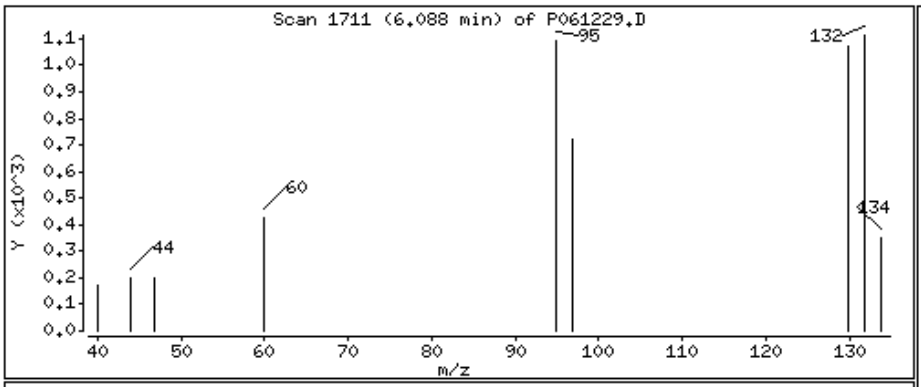
Client ID: Instrument: voa7.i

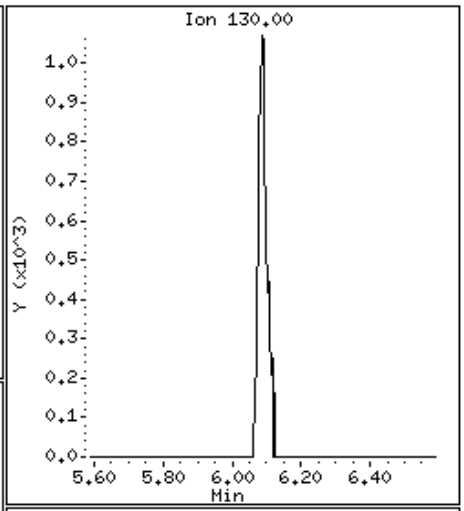
Sample Info: HS24060434-02

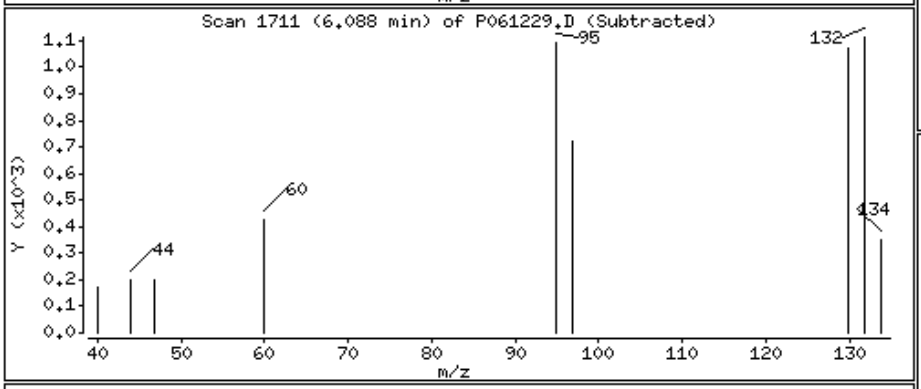
Purge Volume: 5.0 Operator: AP

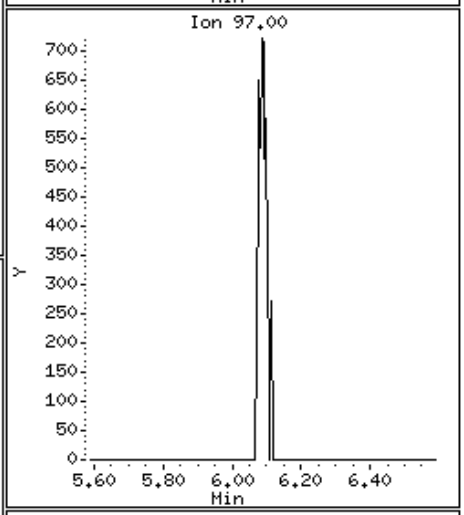
Column phase: DB624 Column diameter: 0.18

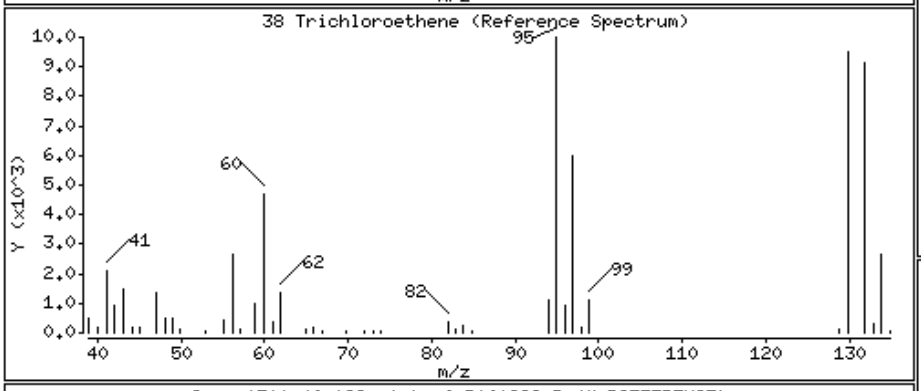
38 Trichloroethene Concentration: 1.32 ug/l

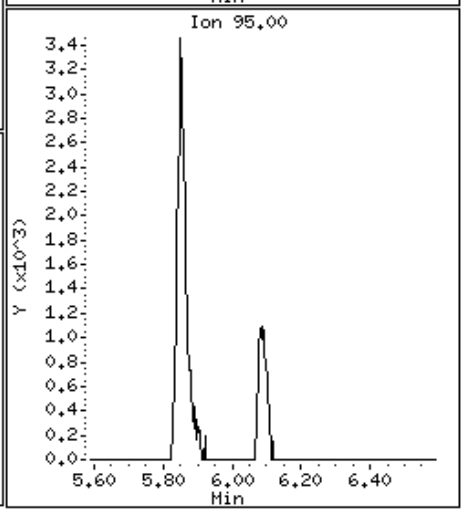


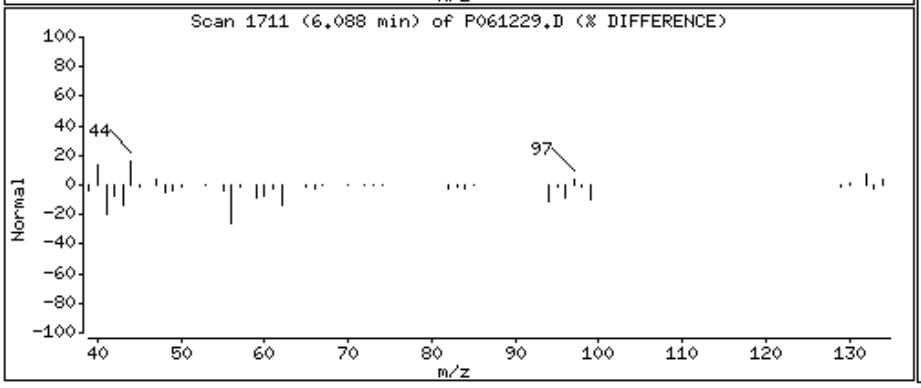












Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061229.D Page 3

Date : 12-JUN-2024 21:38

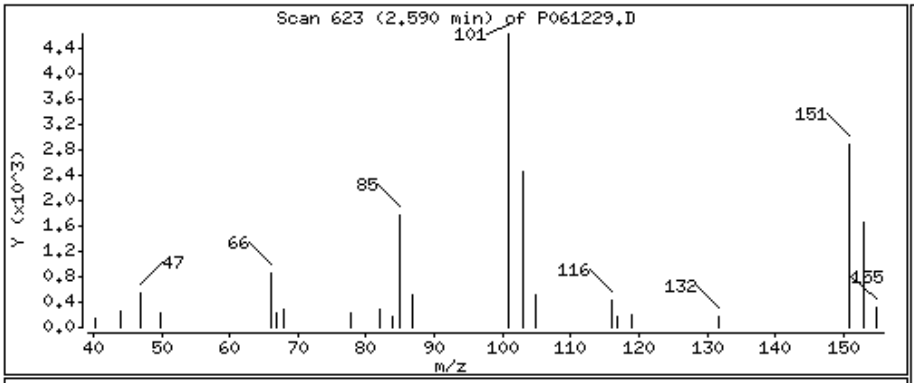
Client ID: Instrument: voa7.i

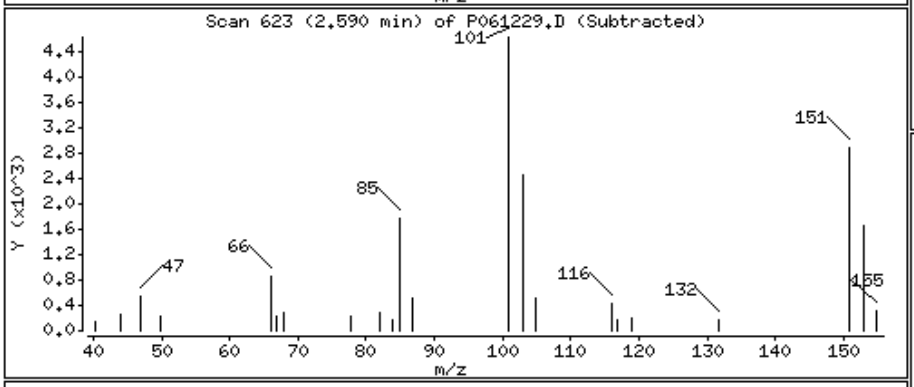
Sample Info: HS24060434-02

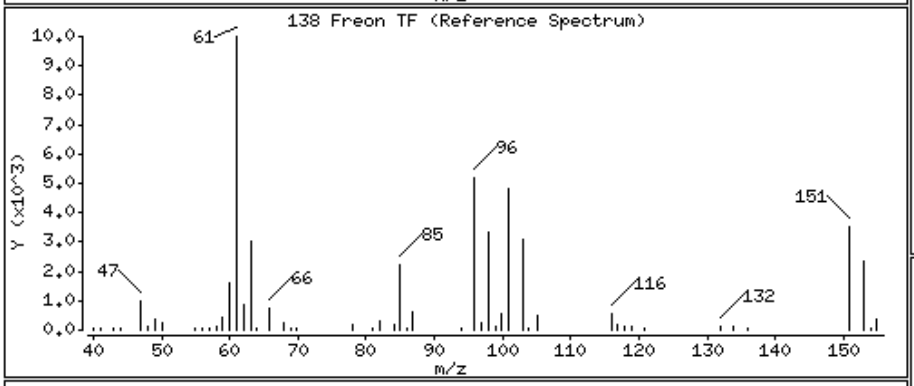
Purge Volume: 5.0 Operator: AP

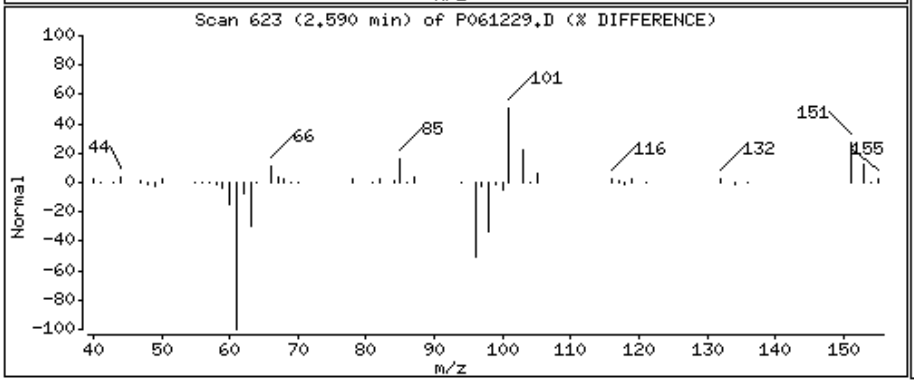
Column phase: DB624 Column diameter: 0.18

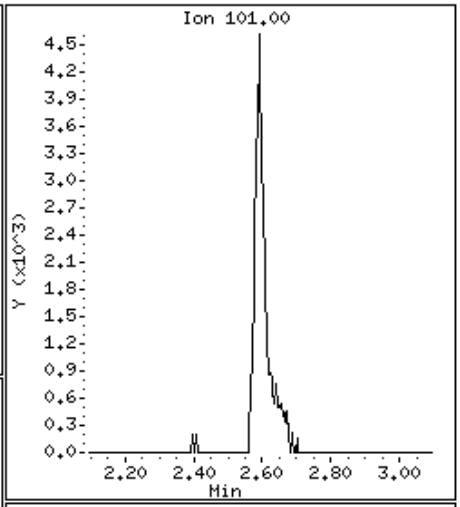
138 Freon TF Concentration: 8.30 ug/l

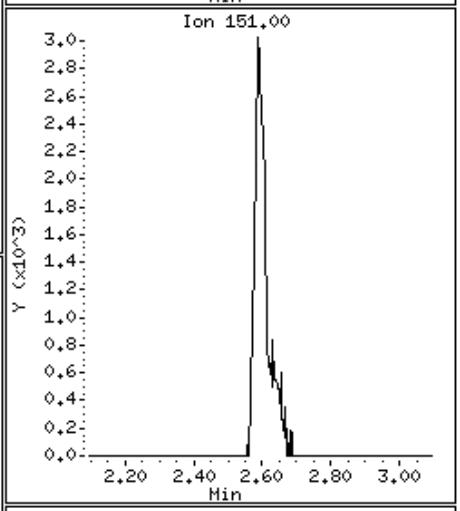


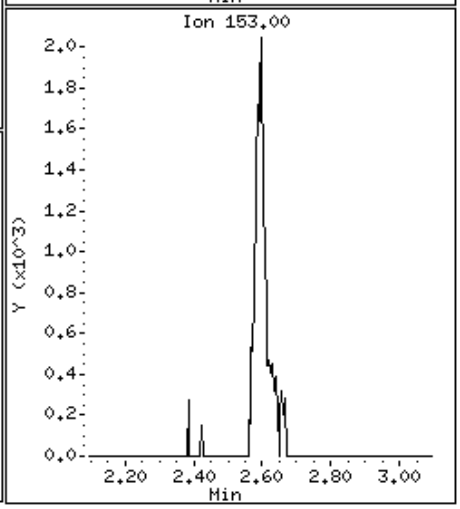












Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061229.D Page 4

Date : 12-JUN-2024 21:38

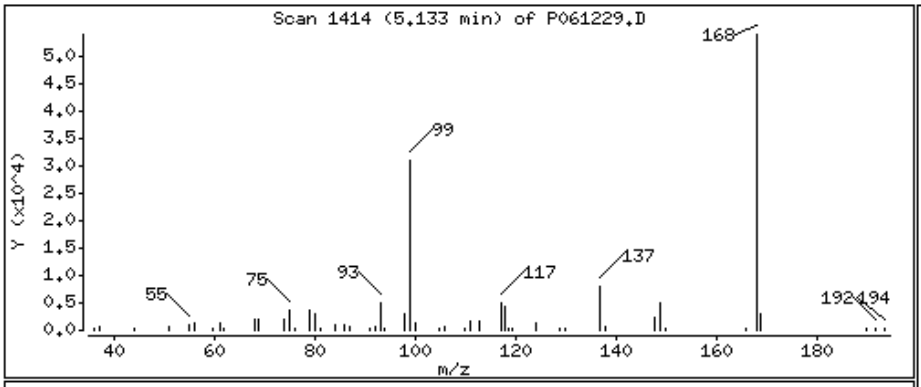
Client ID: Instrument: voa7.i

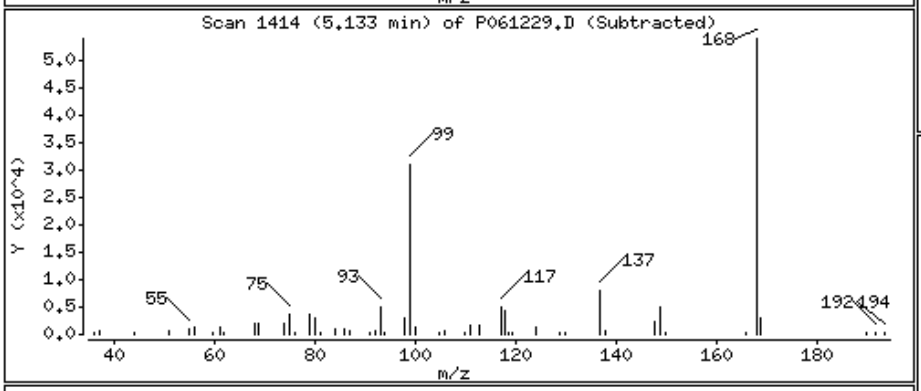
Sample Info: HS24060434-02

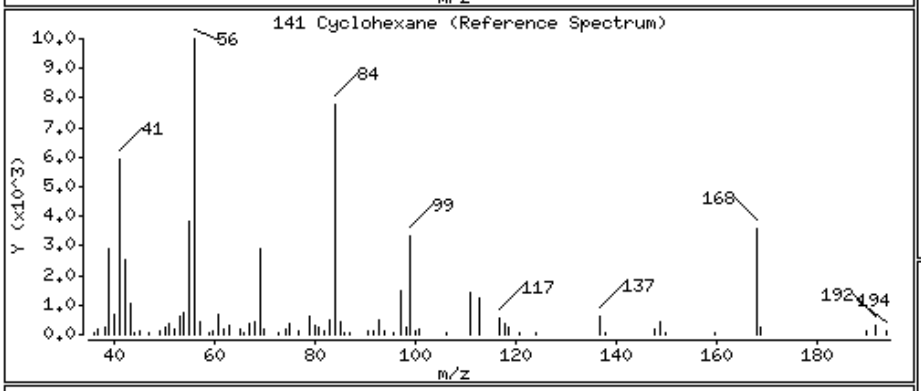
Purge Volume: 5.0 Operator: AP

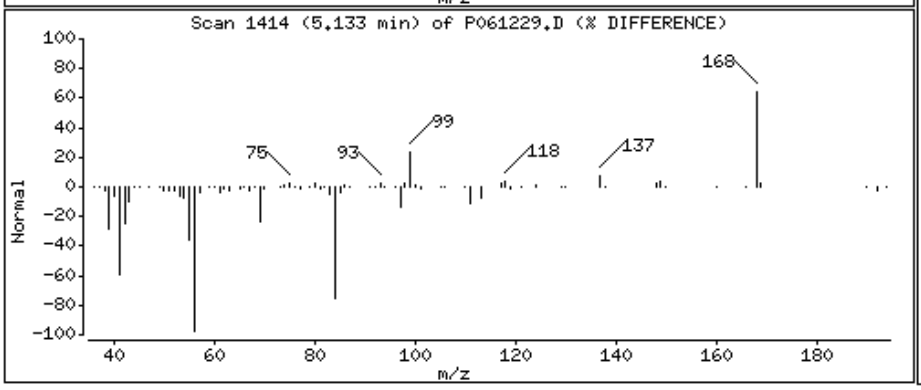
Column phase: DB624 Column diameter: 0.18

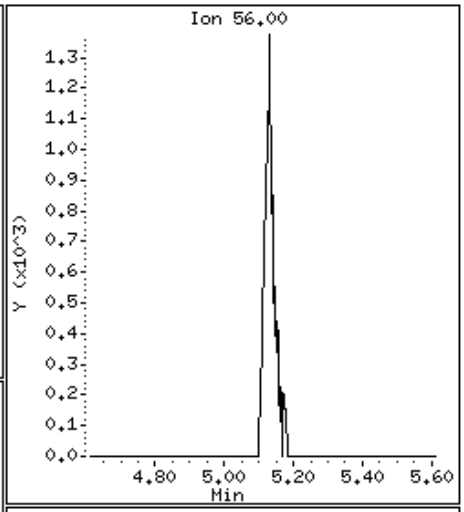
141 Cyclohexane Concentration: 0.91 ug/l

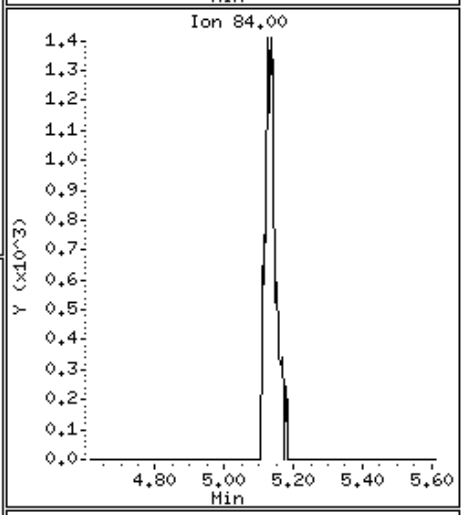


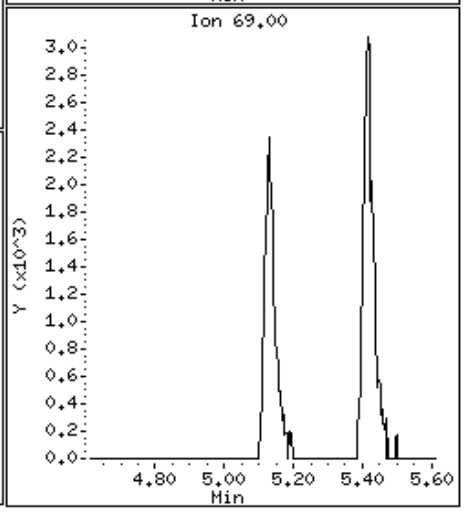










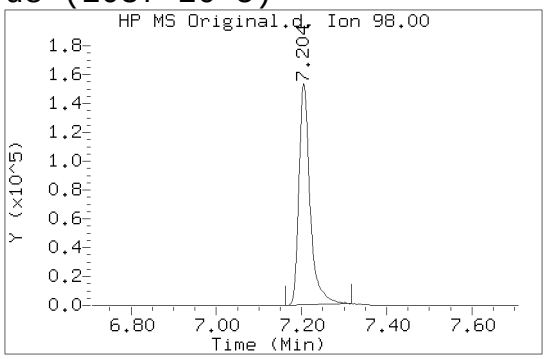


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061229.D
Inj Date : 12-JUN-2024 21:38
InstruID : voa7.i
LabSampID : HS24060434-02

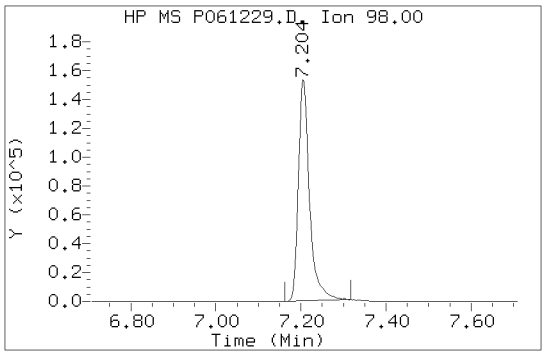
Toluene-d8 (2037-26-5)

Reason Code:

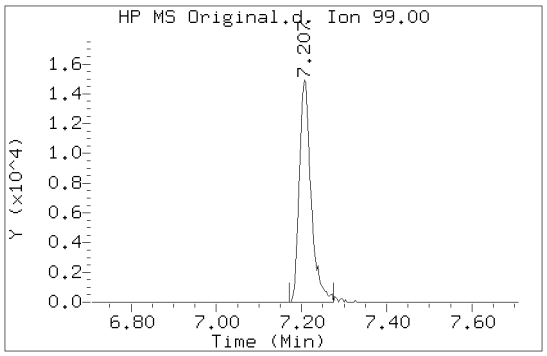
BEFORE
MASS
98
AREA
280835
HEIGHT
153416
15-Jul-2024
11:28
s
zaid



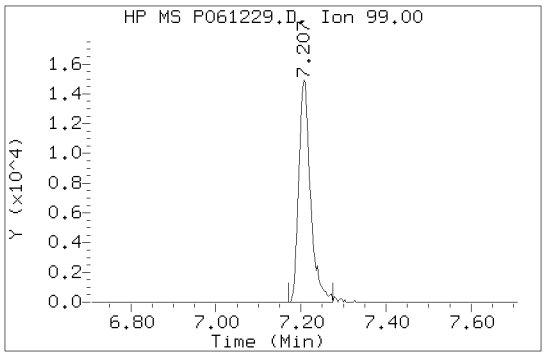
AFTER
MASS
98
AREA
280835
HEIGHT
153416
15-Jul-2024
11:28
s
zaid



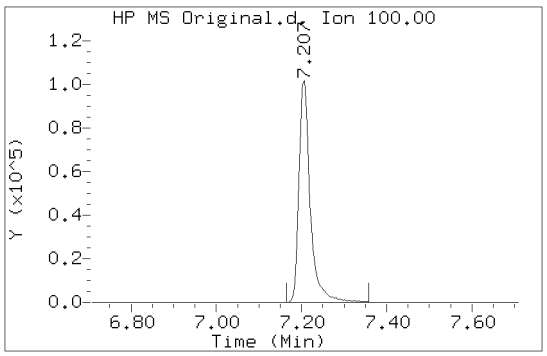
BEFORE
MASS
99
AREA
28818
HEIGHT
14937
15-Jul-2024
11:28
s
zaid



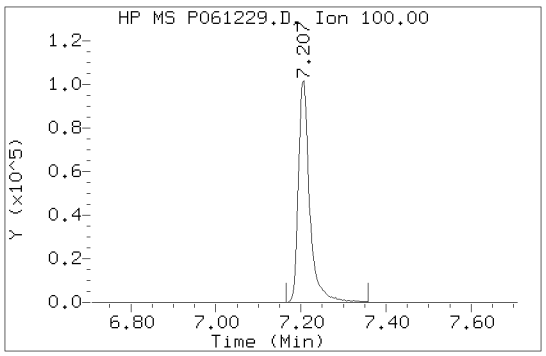
AFTER
MASS
99
AREA
28818
HEIGHT
14937
15-Jul-2024
11:28
s
zaid



BEFORE
MASS
100
AREA
189218
HEIGHT
101696
15-Jul-2024
11:28
s
zaid



AFTER
MASS
100
AREA
189218
HEIGHT
101696
15-Jul-2024
11:28
s
zaid



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061230.D Page 1
Report Date: 15-Jul-2024 11:01

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061230.D
Lab Smp Id: HS24060434-04
Inj Date : 12-JUN-2024 22:01
Operator : AP   Inst ID: voa7.i
Smp Info : HS24060434-04
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240612.b\8260W.m
Meth Date : 15-Jul-2024 11:00 s.zaid   Quant Type: ISTD
Cal Date : 12-JUN-2024 14:46   Cal File: P061211.D
Als bottle: 30
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

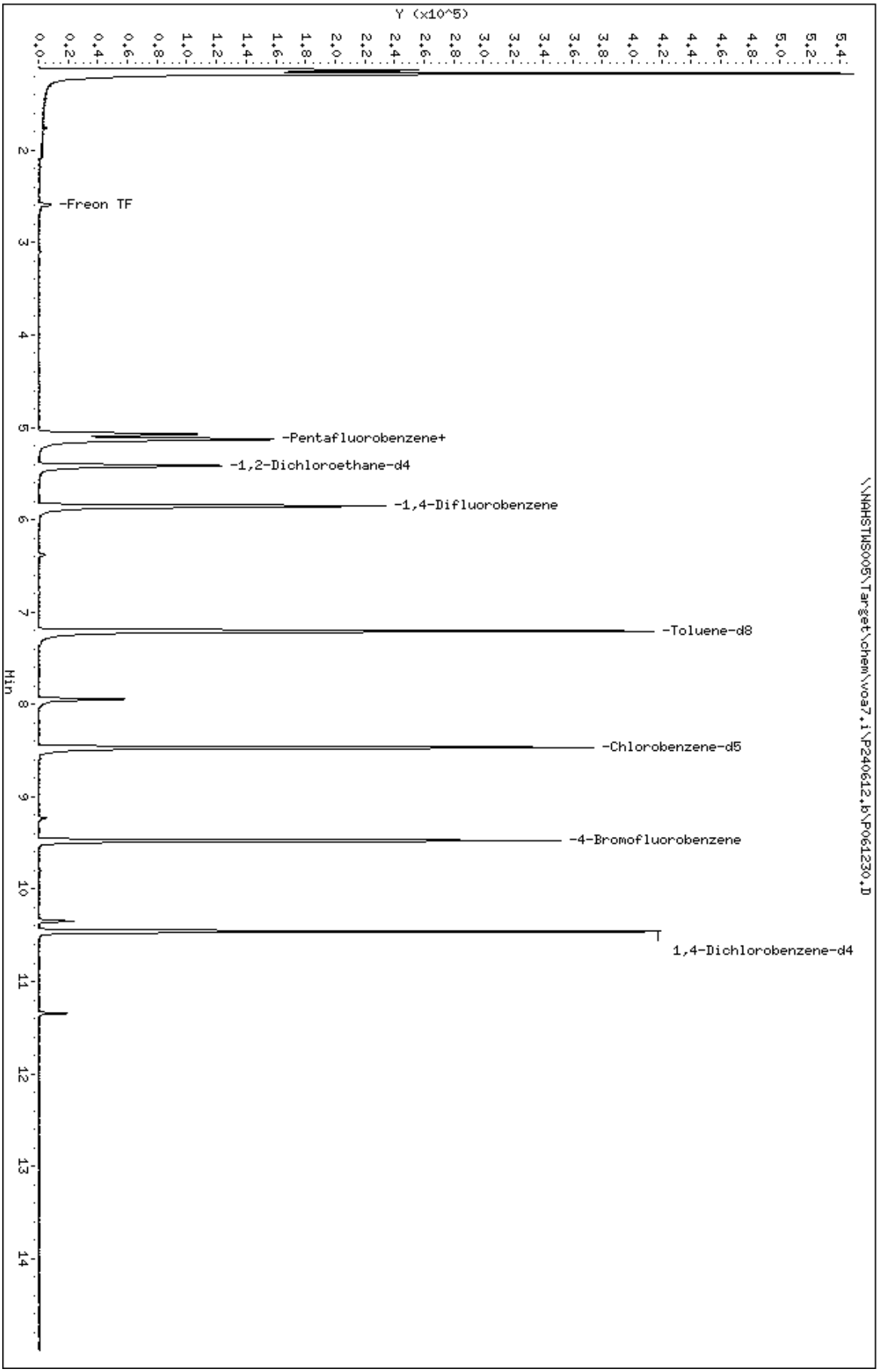
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	5.130	5.130	(1.000)	122613	50.0000	
$ 30 Dibromofluoromethane	113	5.072	5.072	(0.989)	76763	58.5676	58.56(R)
$ 35 1,2-Dichloroethane-d4	65	5.416	5.416	(1.056)	99714	57.9709	57.97
* 36 1,4-Difluorobenzene	114	5.850	5.853	(1.000)	203513	50.0000	
* 47 Chlorobenzene-d5	117	8.467	8.467	(1.000)	200885	50.0000	
$ 48 Toluene-d8	98	7.204	7.207	(0.851)	276895	55.3559	55.35(M)
$ 69 4-Bromofluorobenzene	95	9.474	9.477	(1.119)	107400	54.5905	54.59
* 70 1,4-Dichlorobenzene-d4	152	10.457	10.461	(1.000)	97680	50.0000	
138 Freon TF	101	2.593	2.593	(0.505)	4480	4.12493	4.12

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061230.D
Date : 12-JUN-2024 22:01
Client ID:
Sample Info: HS2406043-04
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7.i
Operator: AP
Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061230.D Page 2

Date : 12-JUN-2024 22:01

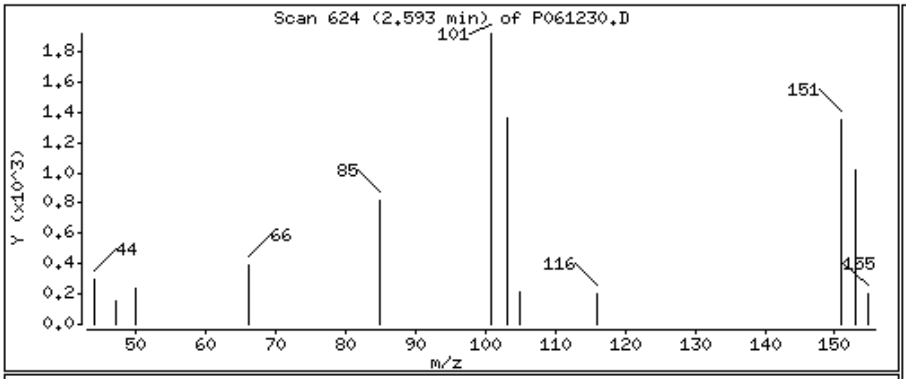
Client ID: Instrument: voa7.i

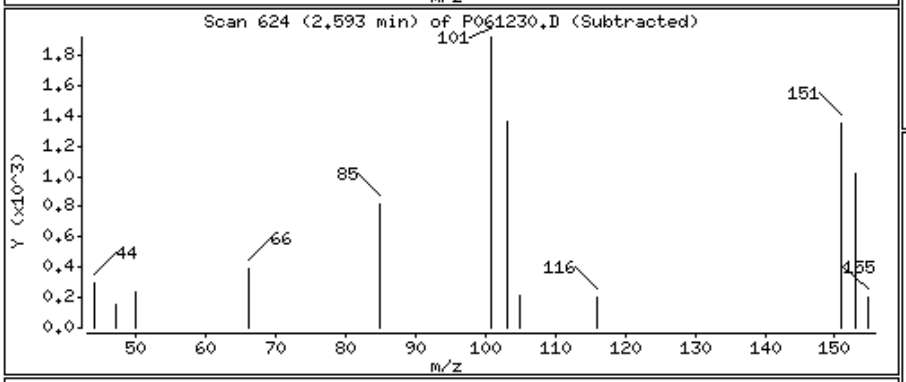
Sample Info: HS24060434-04

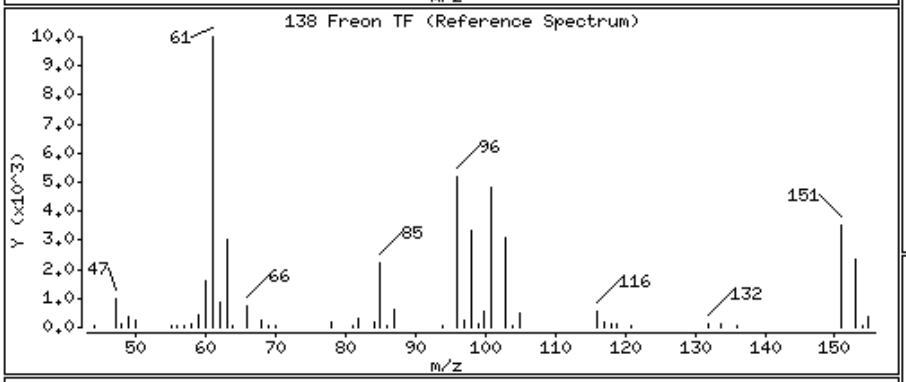
Purge Volume: 5.0 Operator: AP

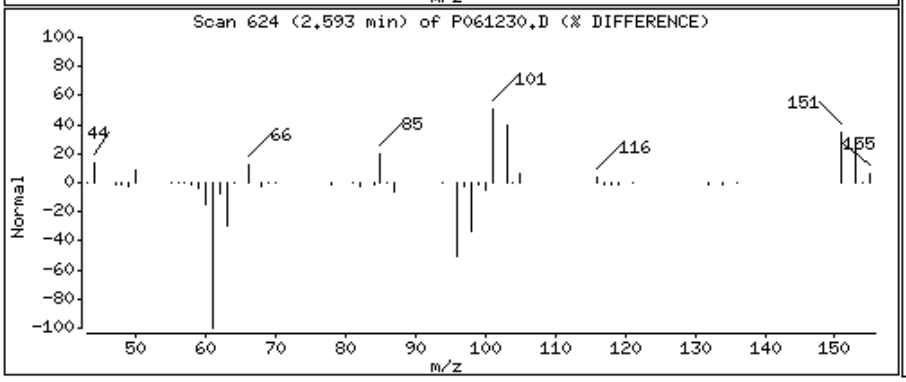
Column phase: DB624 Column diameter: 0.18

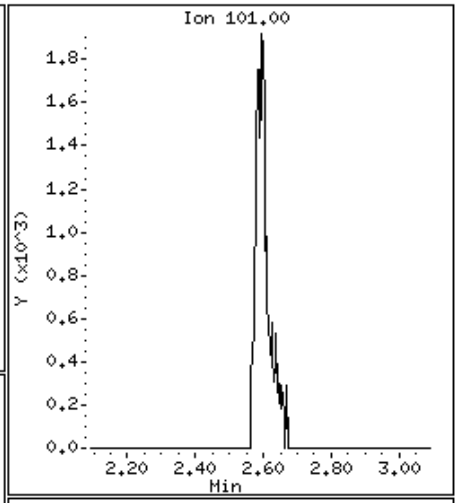
138 Freon TF Concentration: 4.12 ug/l

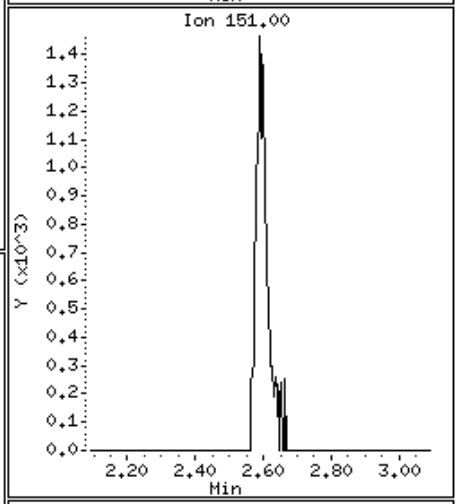


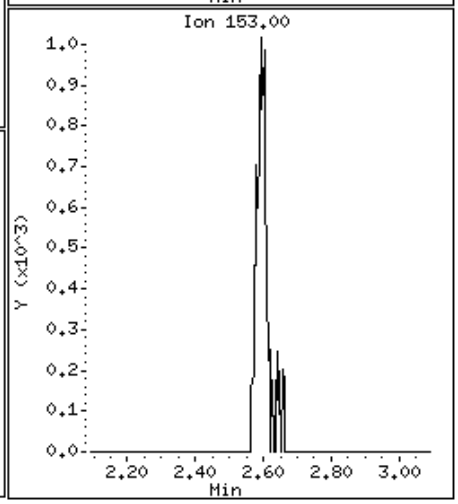










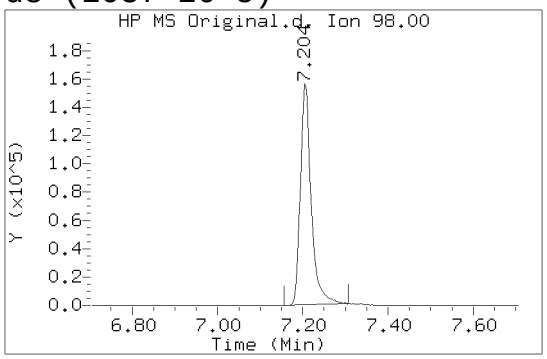


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061230.D
Inj Date : 12-JUN-2024 22:01
InstruID : voa7.i
LabSampID : HS24060434-04

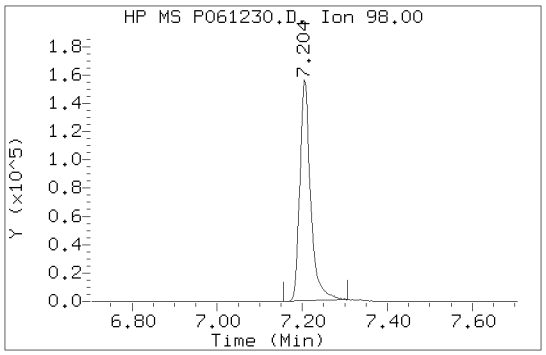
Toluene-d8 (2037-26-5)

Reason Code:

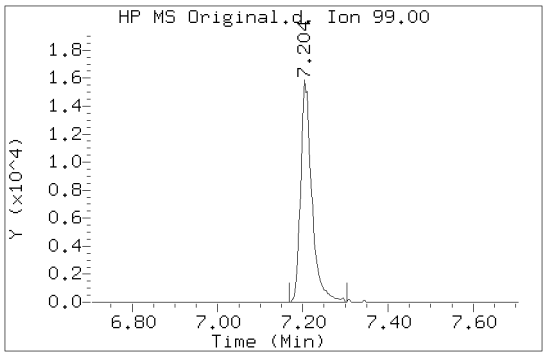
BEFORE
MASS
98
AREA
276895
HEIGHT
156211
15-Jul-2024
11:01
s
zaid



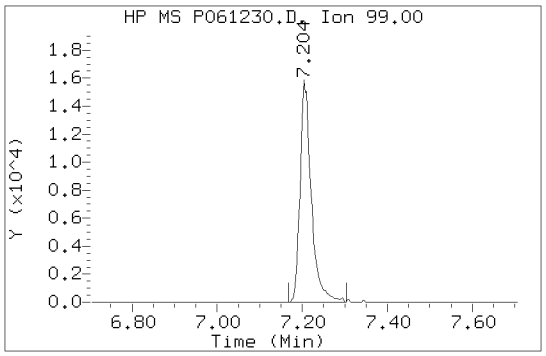
AFTER
MASS
98
AREA
276895
HEIGHT
156211
15-Jul-2024
11:01
s
zaid



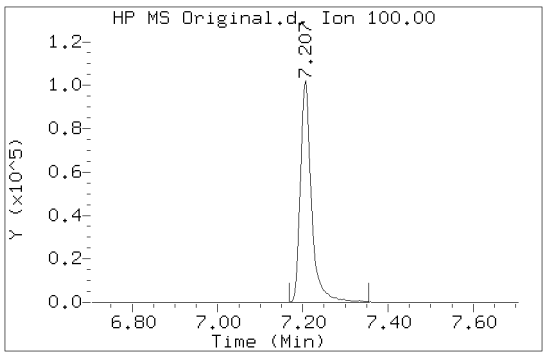
BEFORE
MASS
99
AREA
29324
HEIGHT
15870
15-Jul-2024
11:01
s
zaid



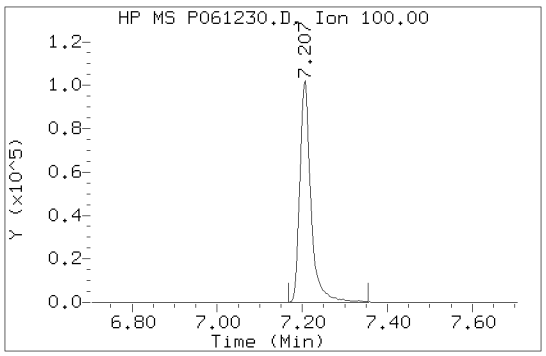
AFTER
MASS
99
AREA
29324
HEIGHT
15870
15-Jul-2024
11:01
s
zaid



BEFORE
MASS
100
AREA
186481
HEIGHT
102096
15-Jul-2024
11:01
s
zaid



AFTER
MASS
100
AREA
186481
HEIGHT
102096
15-Jul-2024
11:01
s
zaid



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061231.D Page 1
Report Date: 15-Jul-2024 11:01

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061231.D
Lab Smp Id: HS24060434-06
Inj Date : 12-JUN-2024 22:23
Operator : AP   Inst ID: voa7.i
Smp Info : HS24060434-06
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240612.b\8260W.m
Meth Date : 15-Jul-2024 11:00 s.zaid   Quant Type: ISTD
Cal Date : 12-JUN-2024 14:46   Cal File: P061211.D
Als bottle: 31
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

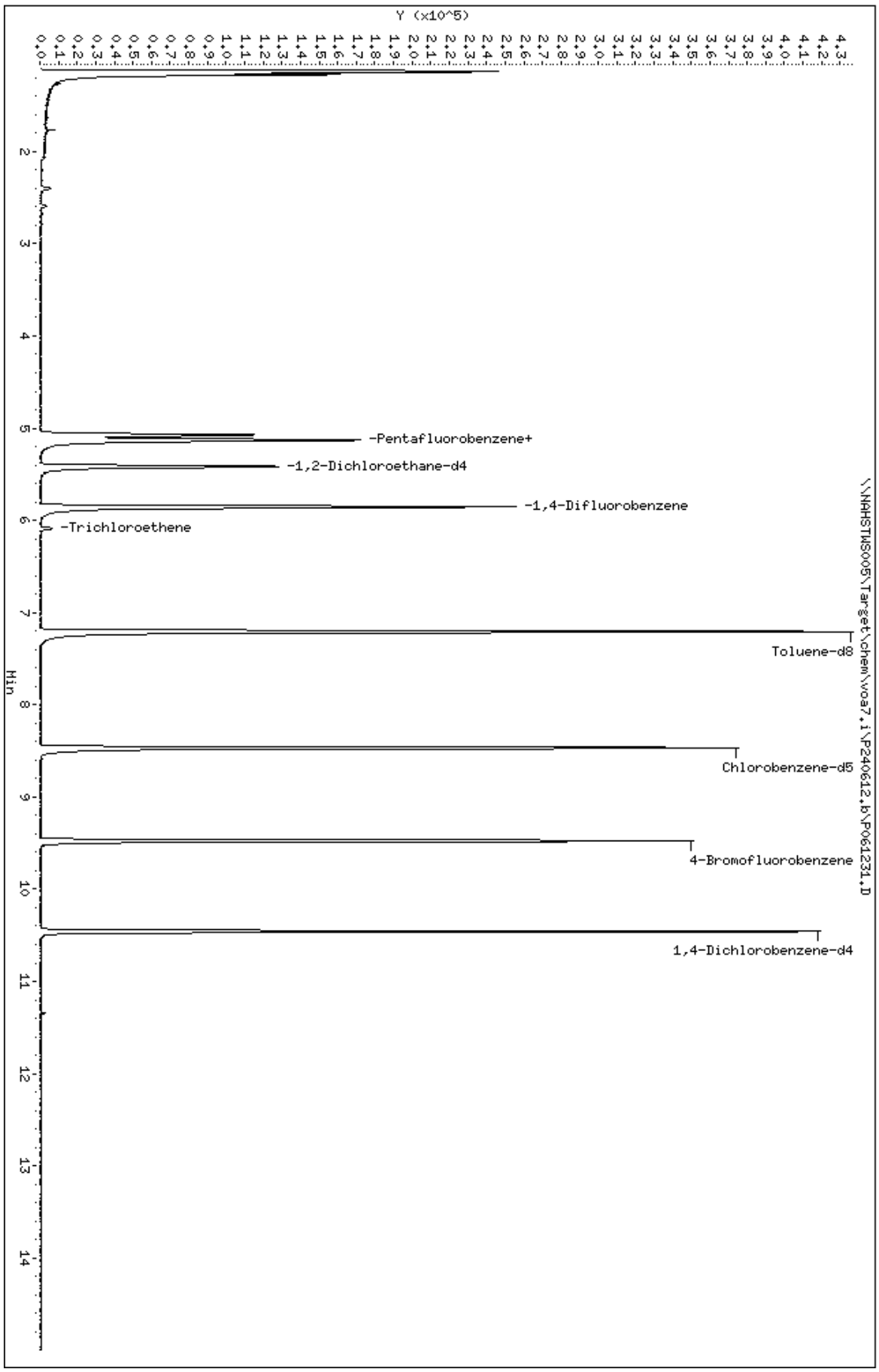
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	5.130	5.130	(1.000)	130530	50.0000	
$ 30 Dibromofluoromethane	113	5.075	5.072	(0.989)	78790	56.4521	56.45
$ 35 1,2-Dichloroethane-d4	65	5.416	5.416	(1.056)	101270	55.2681	55.26
* 36 1,4-Difluorobenzene	114	5.853	5.853	(1.000)	214963	50.0000	
38 Trichloroethene	130	6.091	6.088	(1.041)	2324	1.55028	1.55
* 47 Chlorobenzene-d5	117	8.467	8.467	(1.000)	204043	50.0000	
$ 48 Toluene-d8	98	7.203	7.207	(0.851)	280780	55.2617	55.26(M)
$ 69 4-Bromofluorobenzene	95	9.473	9.477	(1.119)	107285	53.6533	53.65
* 70 1,4-Dichlorobenzene-d4	152	10.457	10.461	(1.000)	98831	50.0000	

QC Flag Legend

M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa7,i\P240612,b\P061231.D
Date : 12-JUN-2024 22:23
Client ID:
Sample Info: HS2406043-06
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7,i
Operator: AP
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061231.D Page 2

Date : 12-JUN-2024 22:23

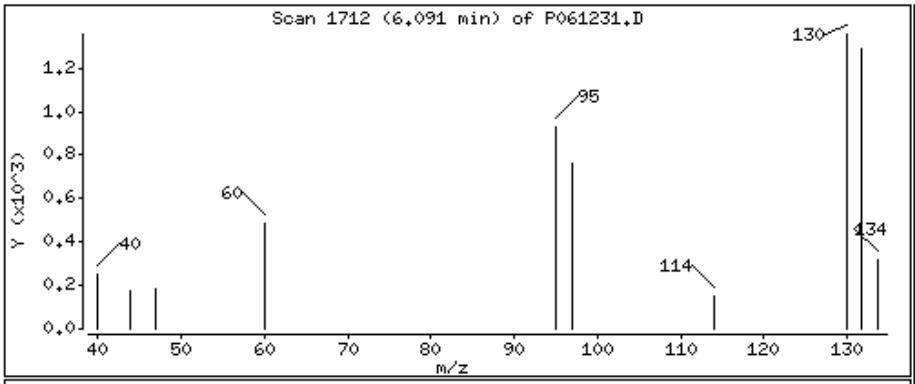
Client ID: Instrument: voa7.i

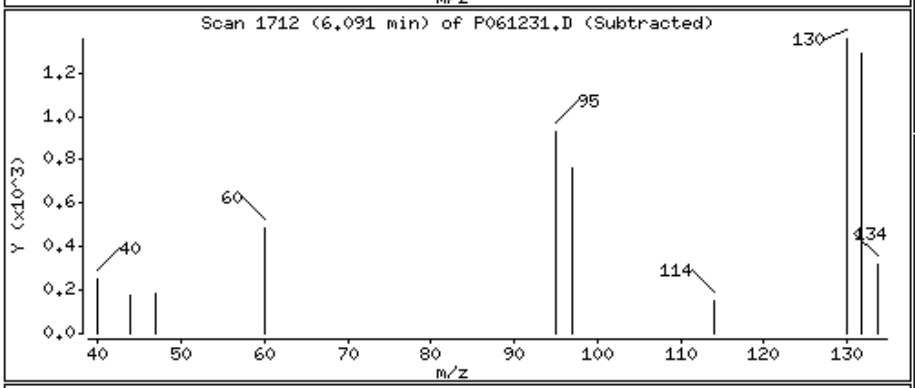
Sample Info: HS24060434-06

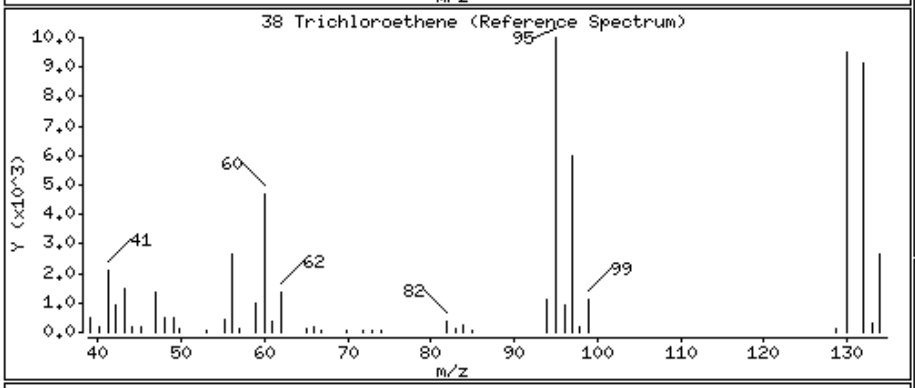
Purge Volume: 5.0 Operator: AP

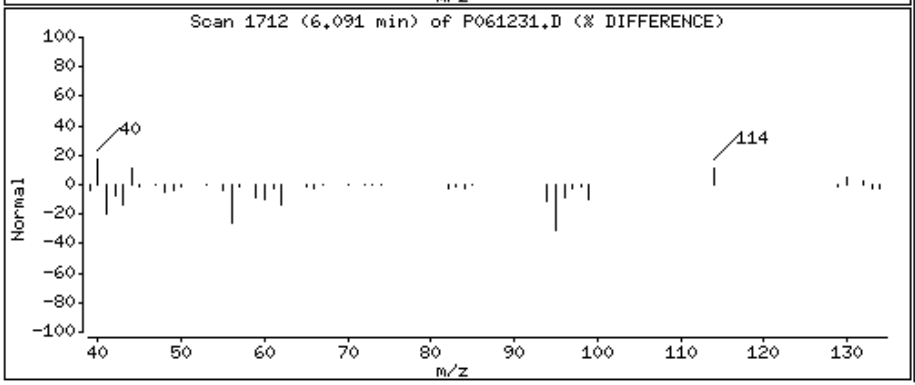
Column phase: DB624 Column diameter: 0.18

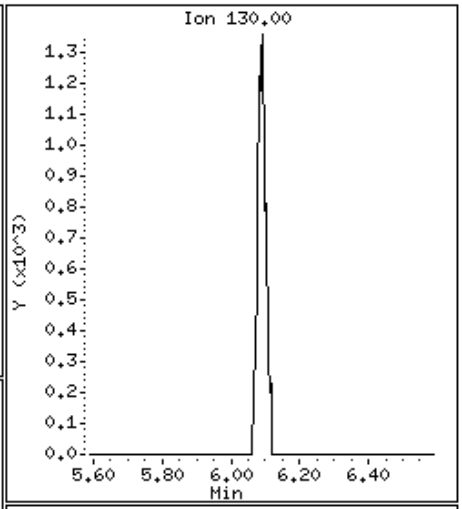
38 Trichloroethene Concentration: 1.55 ug/l

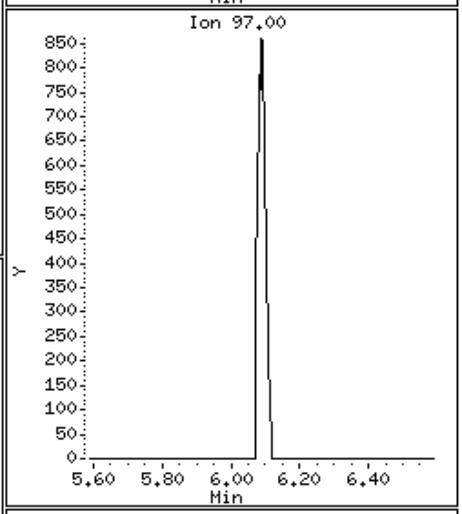


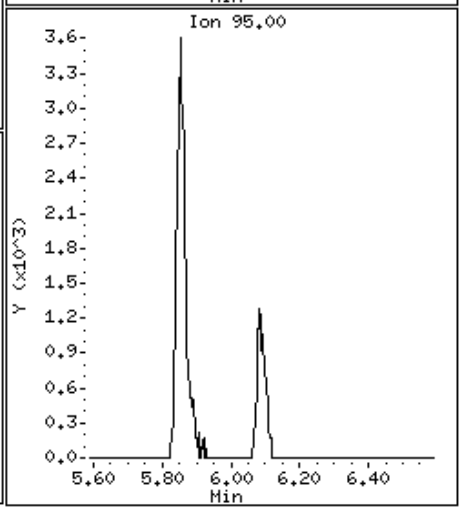










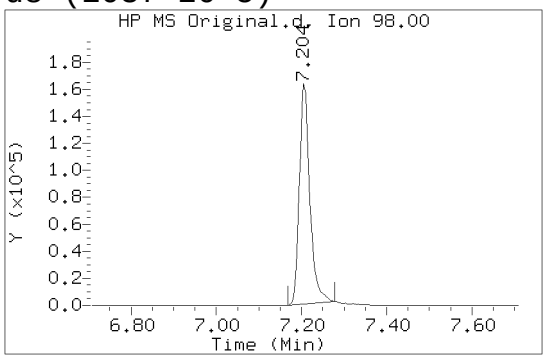


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061231.D
Inj Date : 12-JUN-2024 22:23
InstruID : voa7.i
LabSampID : HS24060434-06

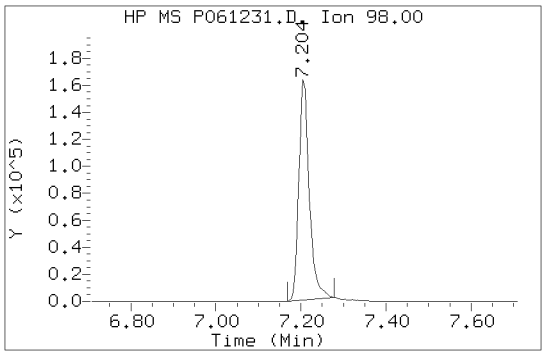
Toluene-d8 (2037-26-5)

Reason Code:

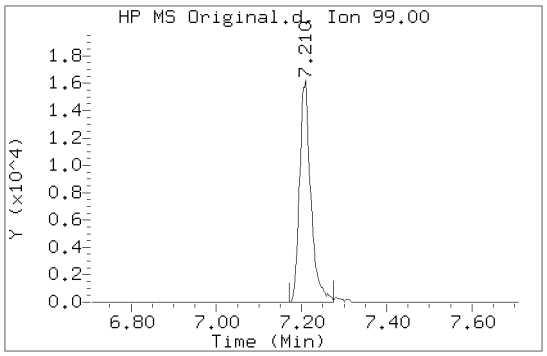
BEFORE
MASS
98
AREA
280780
HEIGHT
163251
15-Jul-2024
11:01
s
zaid



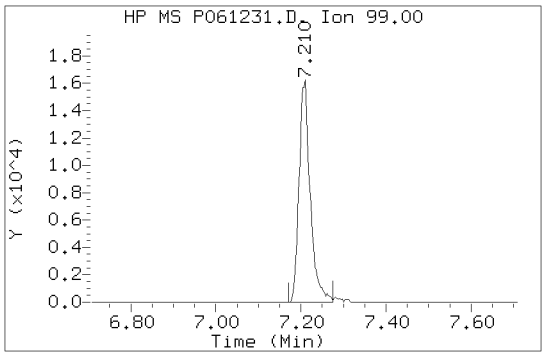
AFTER
MASS
98
AREA
280780
HEIGHT
163251
15-Jul-2024
11:01
s
zaid



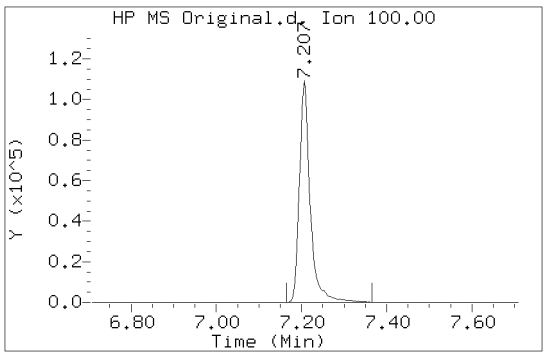
BEFORE
MASS
99
AREA
29720
HEIGHT
16246
15-Jul-2024
11:01
s
zaid



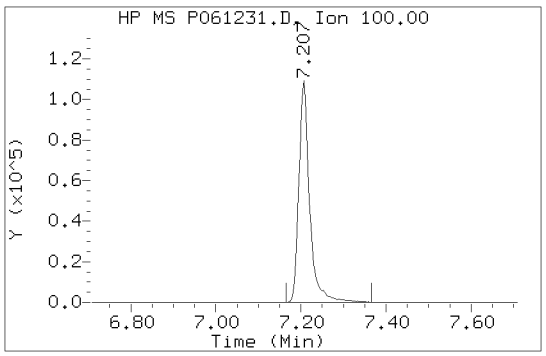
AFTER
MASS
99
AREA
29720
HEIGHT
16246
15-Jul-2024
11:01
s
zaid



BEFORE
MASS
100
AREA
192932
HEIGHT
109216
15-Jul-2024
11:01
s
zaid



AFTER
MASS
100
AREA
192932
HEIGHT
109216
15-Jul-2024
11:01
s
zaid



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061232.D Page 1
Report Date: 15-Jul-2024 11:01

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061232.D
Lab Smp Id: HS24060434-08
Inj Date : 12-JUN-2024 22:46
Operator : AP   Inst ID: voa7.i
Smp Info : HS24060434-08
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240612.b\8260W.m
Meth Date : 15-Jul-2024 11:00 s.zaid   Quant Type: ISTD
Cal Date : 12-JUN-2024 14:46   Cal File: P061211.D
Als bottle: 32
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

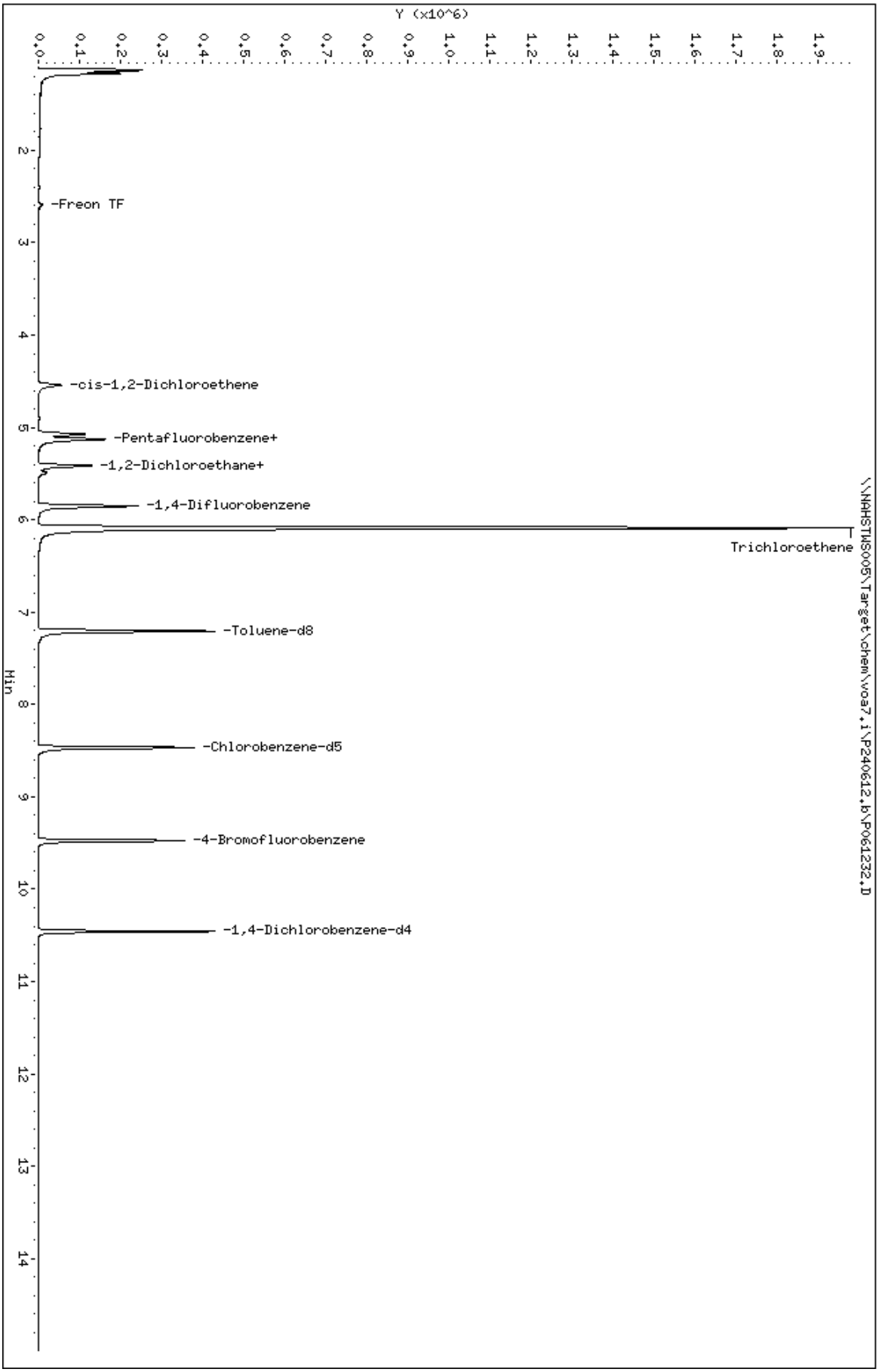
Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	1 Pentafluorobenzene	168	5.133	5.130	(1.000)	127176	50.0000	
	27 cis-1,2-Dichloroethene	96	4.547	4.541	(0.886)	30599	20.2786	20.27
$	30 Dibromofluoromethane	113	5.072	5.072	(0.988)	80340	59.1015	59.10(R)
	33 1,2-Dichloroethane	62	5.496	5.490	(0.939)	16596	6.86096	6.86(H)
$	35 1,2-Dichloroethane-d4	65	5.416	5.416	(1.055)	103930	58.2579	58.25(M)
*	36 1,4-Difluorobenzene	114	5.853	5.853	(1.000)	211082	50.0000	
	38 Trichloroethene	130	6.088	6.088	(1.040)	673321	458.661	458.66(A)
*	47 Chlorobenzene-d5	117	8.467	8.467	(1.000)	202897	50.0000	
$	48 Toluene-d8	98	7.207	7.207	(0.851)	280012	55.4256	55.42(M)
$	69 4-Bromofluorobenzene	95	9.473	9.477	(1.119)	111095	55.9594	55.95
*	70 1,4-Dichlorobenzene-d4	152	10.457	10.461	(1.000)	99539	50.0000	
	138 Freon TF	101	2.589	2.593	(0.505)	4317	3.87523	3.87
M	94 1,2-Dichloroethylene (total)	96				30599	20.2786	20.27

QC Flag Legend

A - Target compound detected but, quantitated amount
    exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



Data File: \\NAHSTWS005\Target\chem\voa7,i\P240612,b\P061232.D
Date : 12-JUN-2024 22:46
Client ID:
Sample Info: HS2406043-08
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7,i
Operator: AP
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061232.D Page 2

Date : 12-JUN-2024 22:46

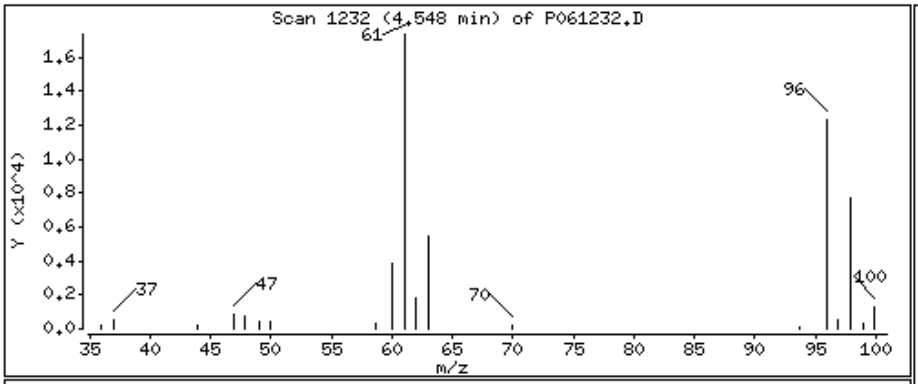
Client ID: Instrument: voa7.i

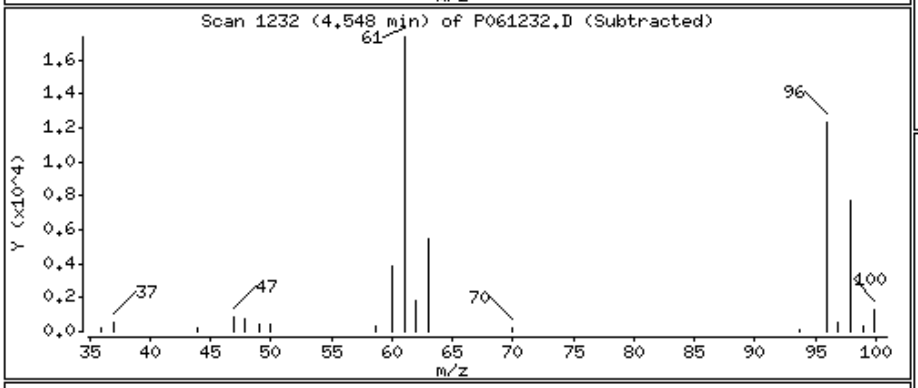
Sample Info: HS24060434-08

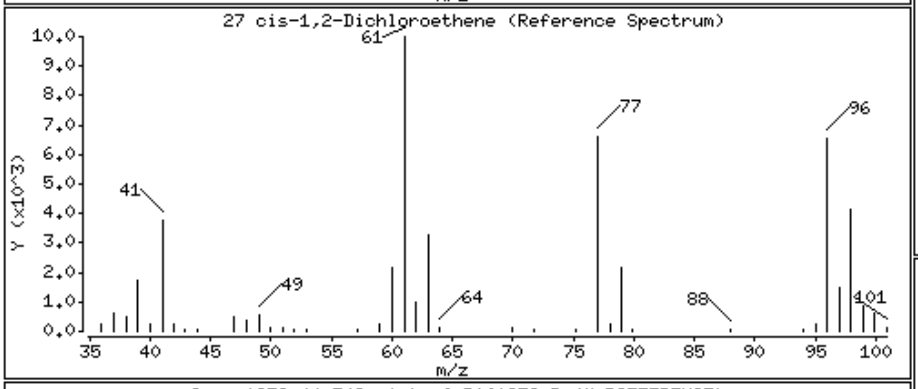
Purge Volume: 5.0 Operator: AP

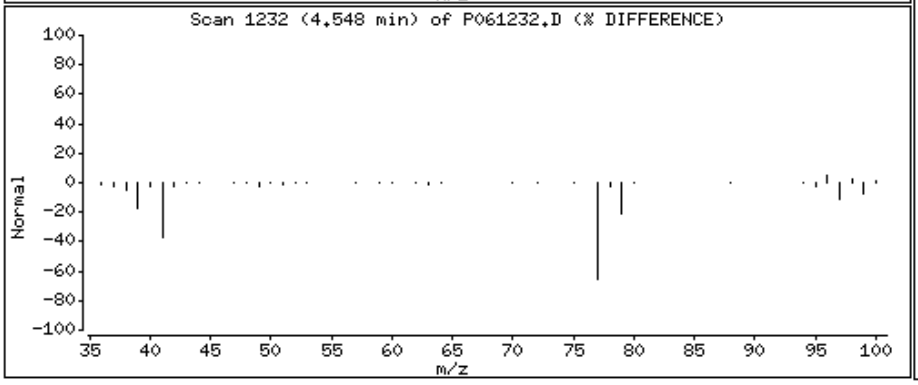
Column phase: DB624 Column diameter: 0.18

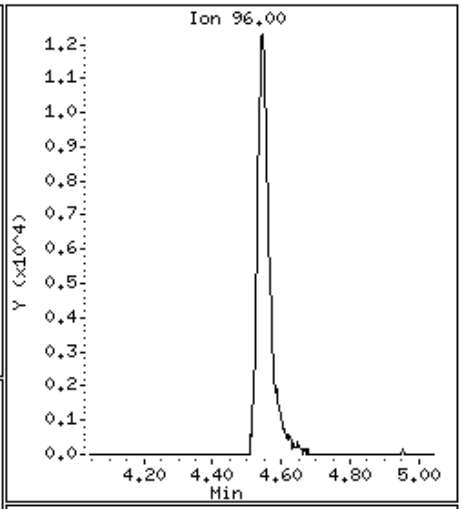
27 cis-1,2-Dichloroethene Concentration: 20.27 ug/l

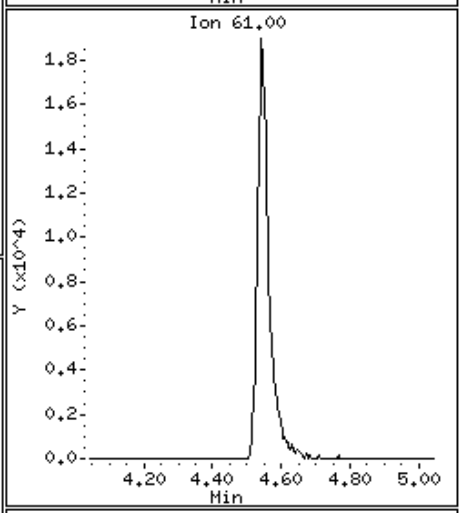


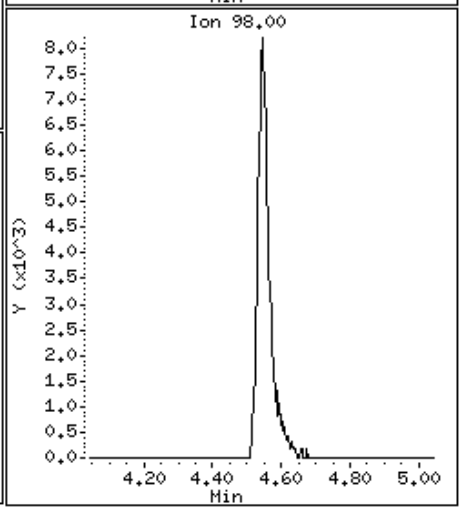












Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061232.D Page 3

Date : 12-JUN-2024 22:46

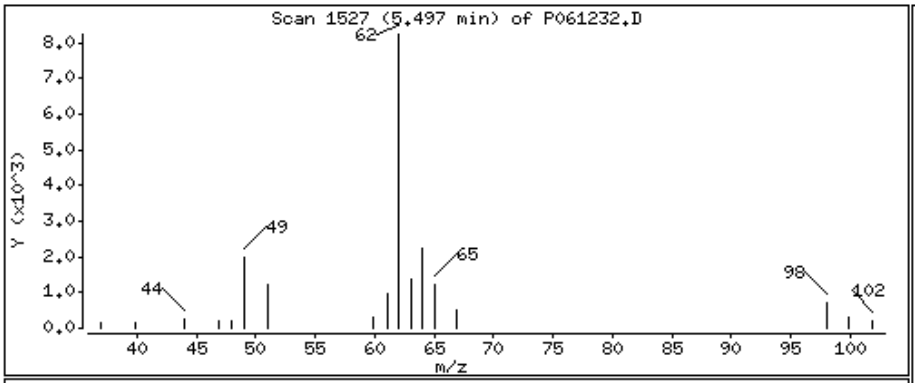
Client ID: Instrument: voa7.i

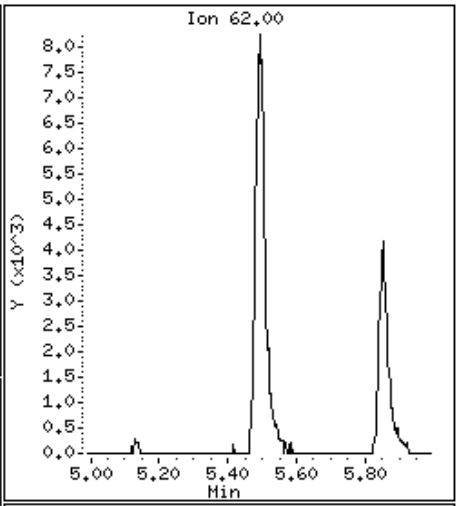
Sample Info: HS24060434-08

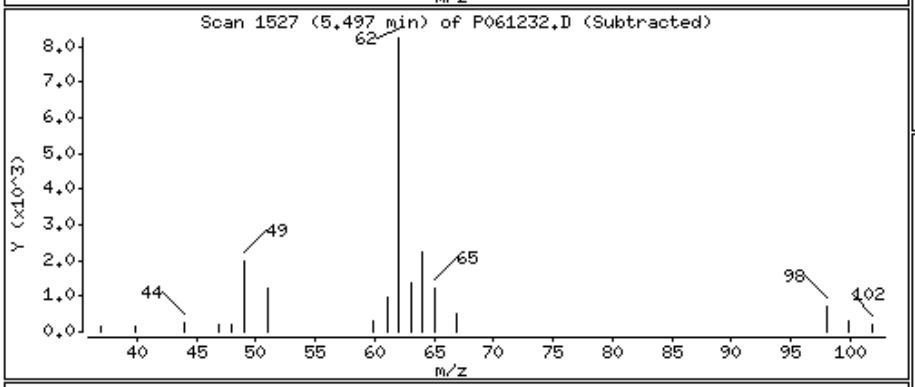
Purge Volume: 5.0 Operator: AP

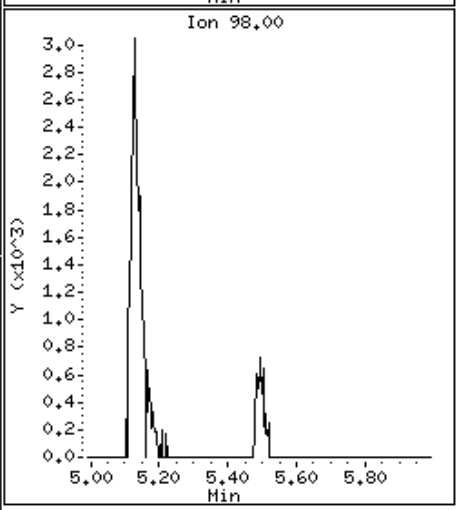
Column phase: DB624 Column diameter: 0.18

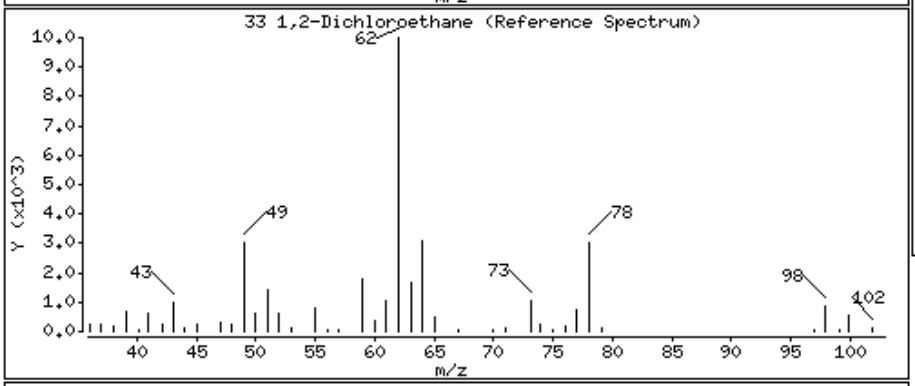
33 1,2-Dichloroethane Concentration: 6.86 ug/l

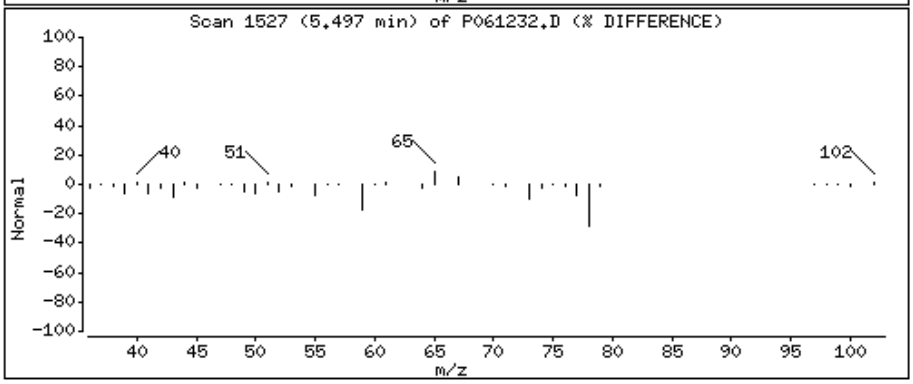












Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061232.D Page 4

Date : 12-JUN-2024 22:46

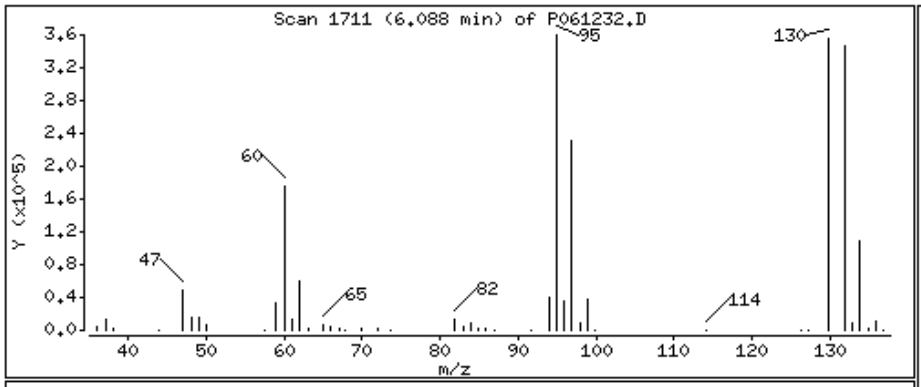
Client ID: Instrument: voa7.i

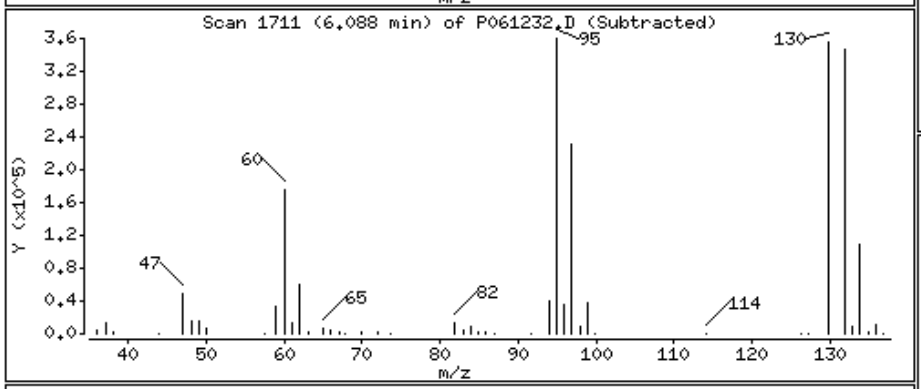
Sample Info: HS24060434-08

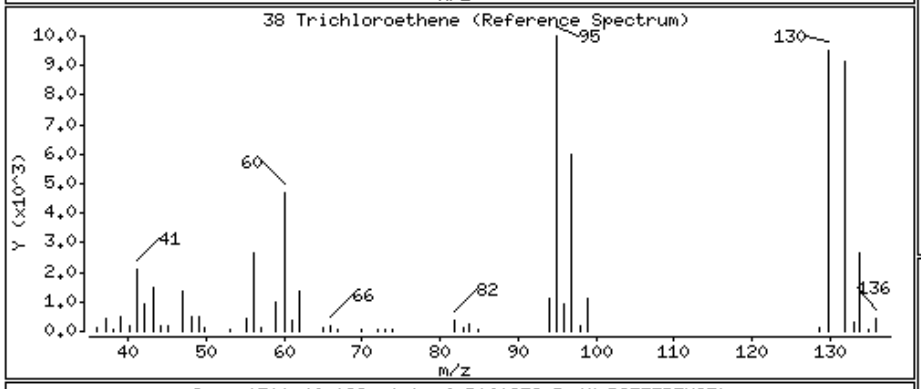
Purge Volume: 5.0 Operator: AP

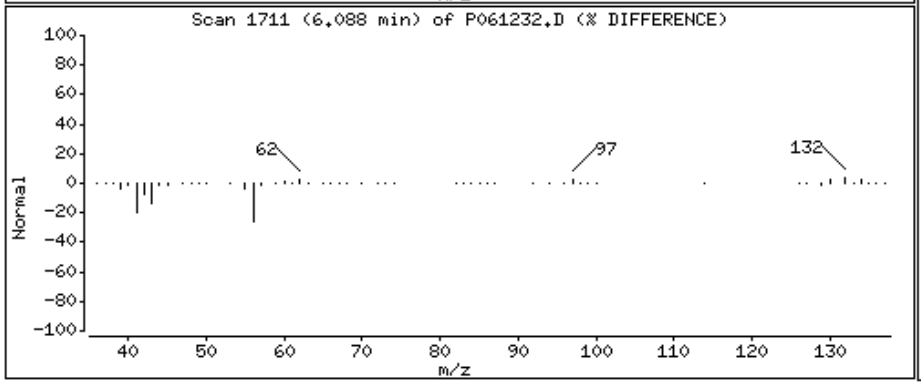
Column phase: DB624 Column diameter: 0.18

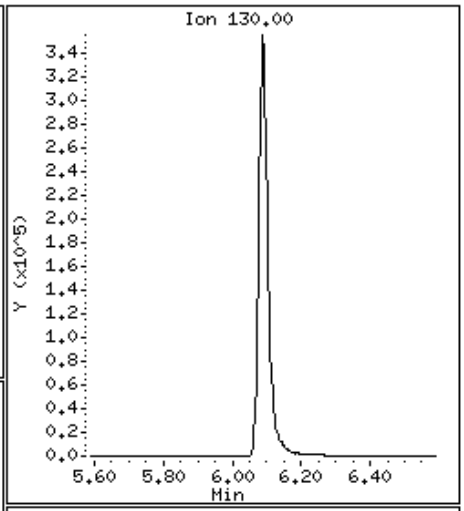
38 Trichloroethene Concentration: 458.66 ug/l

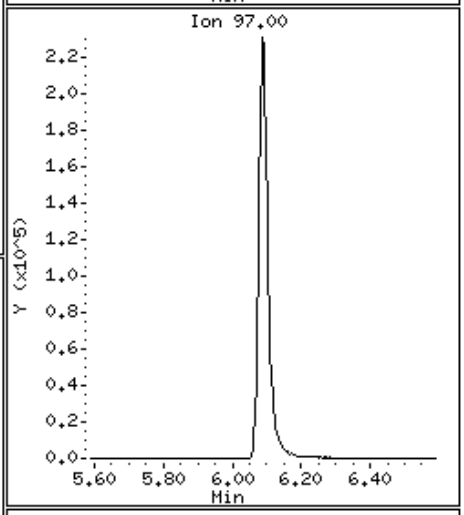


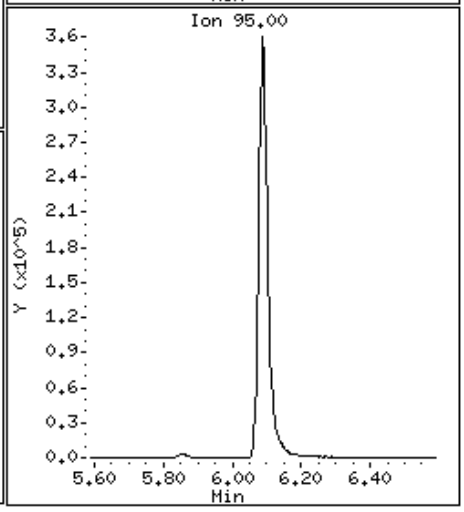












Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061232.D

Date : 12-JUN-2024 22:46

Client ID:

Instrument: voa7.i

Sample Info: HS24060434-08

Purge Volume: 5.0

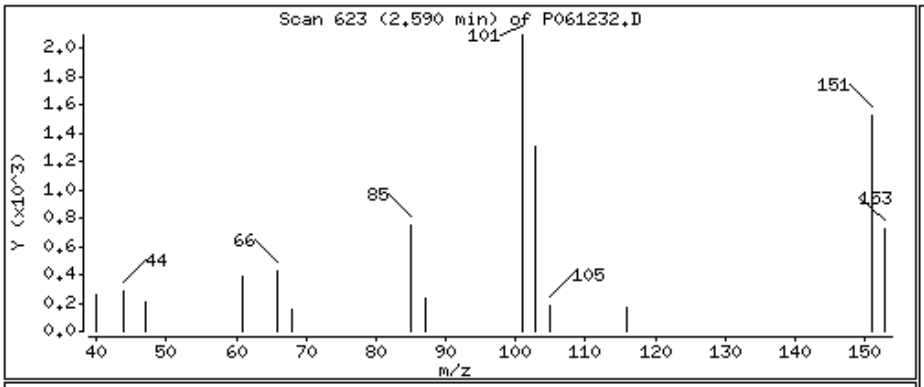
Operator: AP

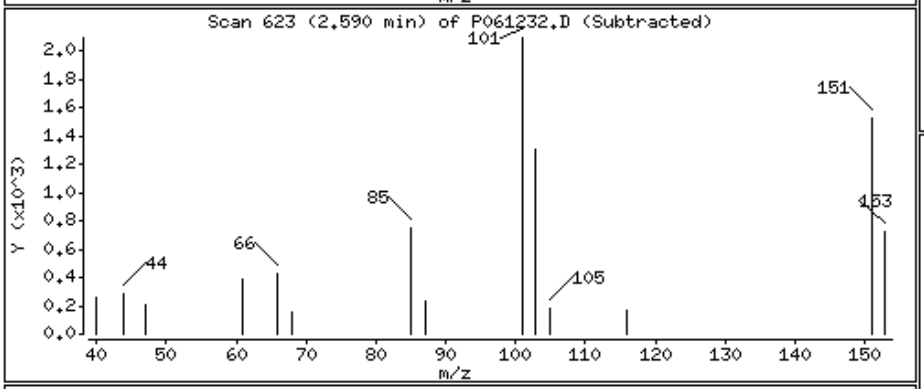
Column phase: DB624

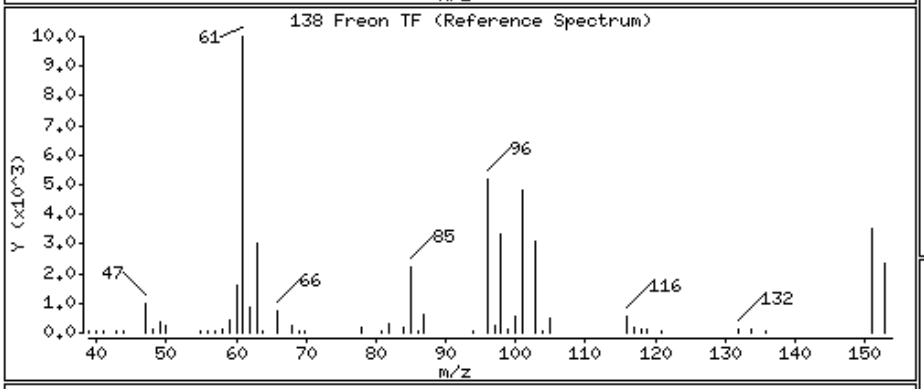
Column diameter: 0.18

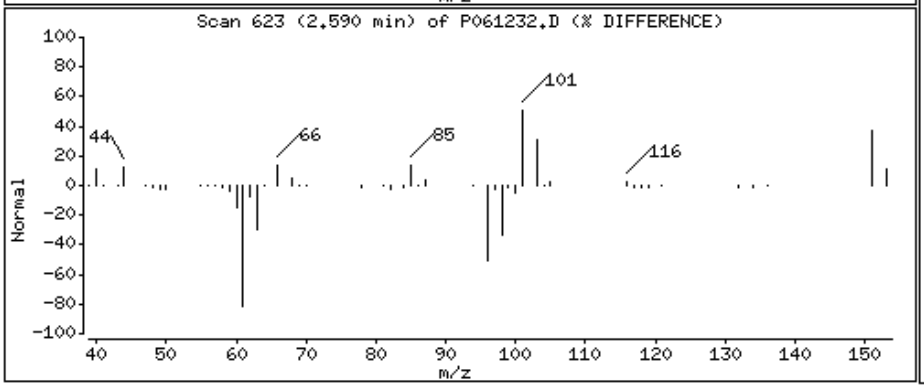
138 Freon TF

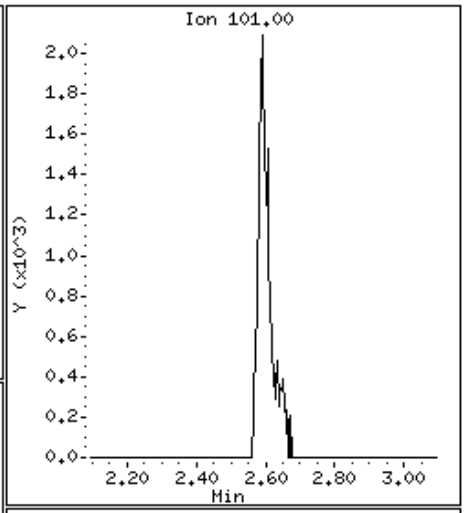
Concentration: 3.87 ug/l

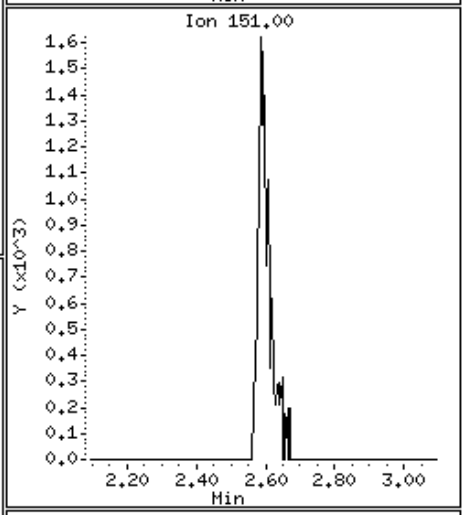


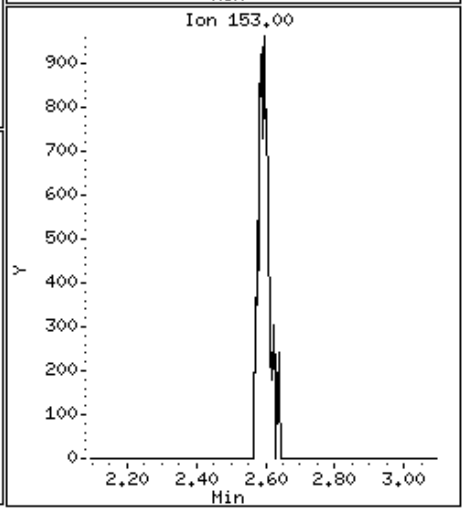












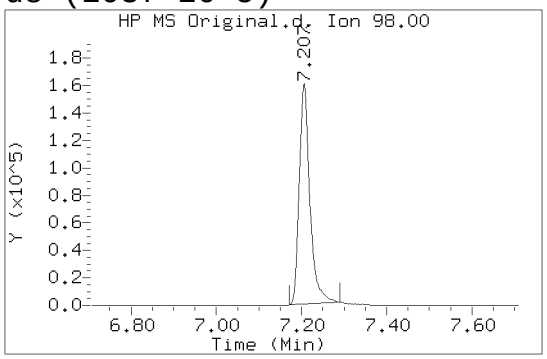
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061232.D
Inj Date : 12-JUN-2024 22:46
InstruID : voa7.i
LabSampID : HS24060434-08

Toluene-d8 (2037-26-5)

Reason Code:

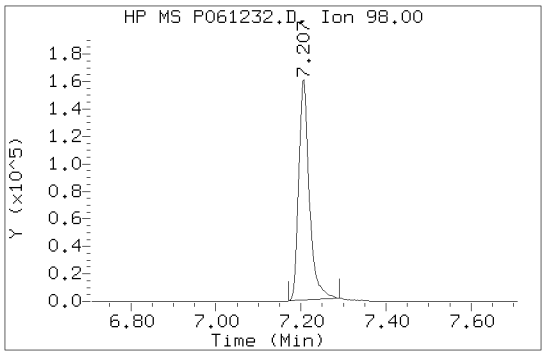
BEFORE

MASS
98
AREA
280012
HEIGHT
160503
15-Jul-2024
11:01
s
zaid



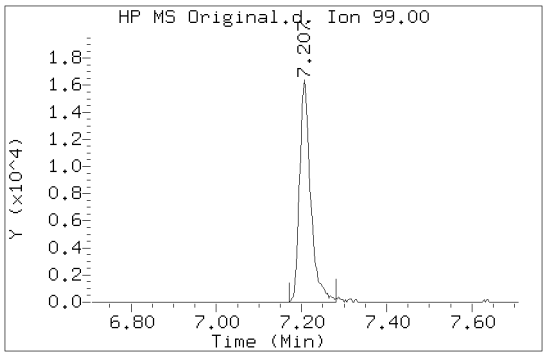
AFTER

MASS
98
AREA
280012
HEIGHT
160503
15-Jul-2024
11:01
s
zaid



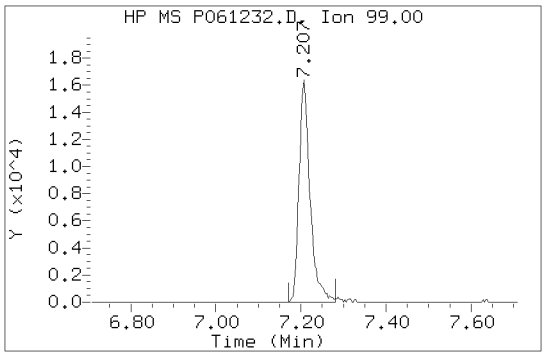
BEFORE

MASS
99
AREA
29865
HEIGHT
16392
15-Jul-2024
11:01
s
zaid



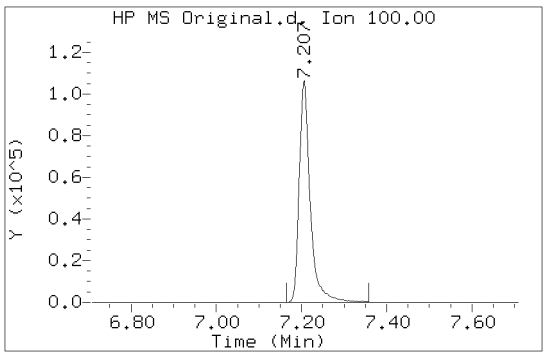
AFTER

MASS
99
AREA
29865
HEIGHT
16392
15-Jul-2024
11:01
s
zaid



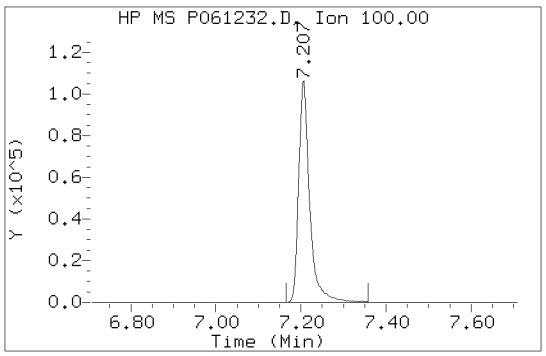
BEFORE

MASS
100
AREA
192028
HEIGHT
106376
15-Jul-2024
11:01
s
zaid



AFTER

MASS
100
AREA
192028
HEIGHT
106376
15-Jul-2024
11:01
s
zaid

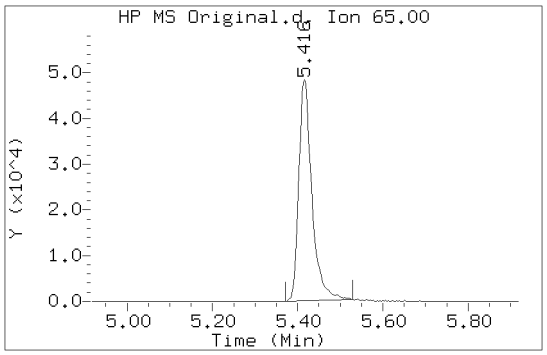


1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

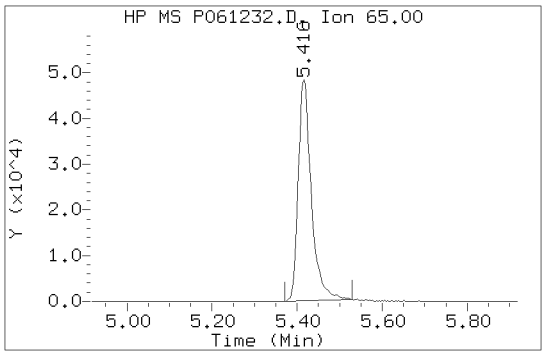
BEFORE

MASS
65
AREA
103930
HEIGHT
48359
15-Jul-2024
11:01
s
zaid



AFTER

MASS
65
AREA
103930
HEIGHT
48359
15-Jul-2024
11:01
s
zaid



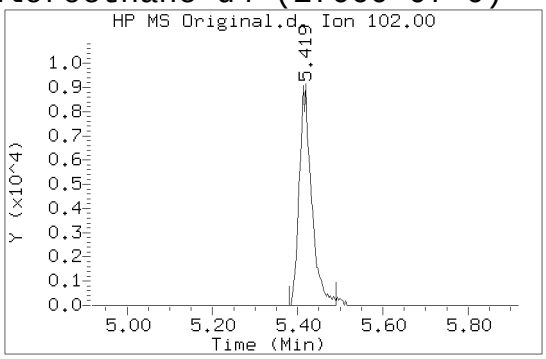
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061232.D
Inj Date : 12-JUN-2024 22:46
InstruID : voa7.i
LabSampID : HS24060434-08

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

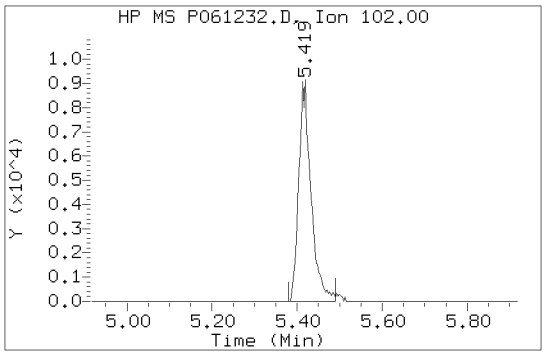
BEFORE

MASS
102
AREA
18313
HEIGHT
9153
15-Jul-2024
11:01
s
zaid



AFTER

MASS
102
AREA
18313
HEIGHT
9153
15-Jul-2024
11:01
s
zaid



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061233.D Page 1
Report Date: 15-Jul-2024 11:01

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061233.D
Lab Smp Id: HS24060434-10
Inj Date : 12-JUN-2024 23:09
Operator : AP   Inst ID: voa7.i
Smp Info : HS24060434-10
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240612.b\8260W.m
Meth Date : 15-Jul-2024 11:00 s.zaid   Quant Type: ISTD
Cal Date : 12-JUN-2024 14:46   Cal File: P061211.D
Als bottle: 33
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

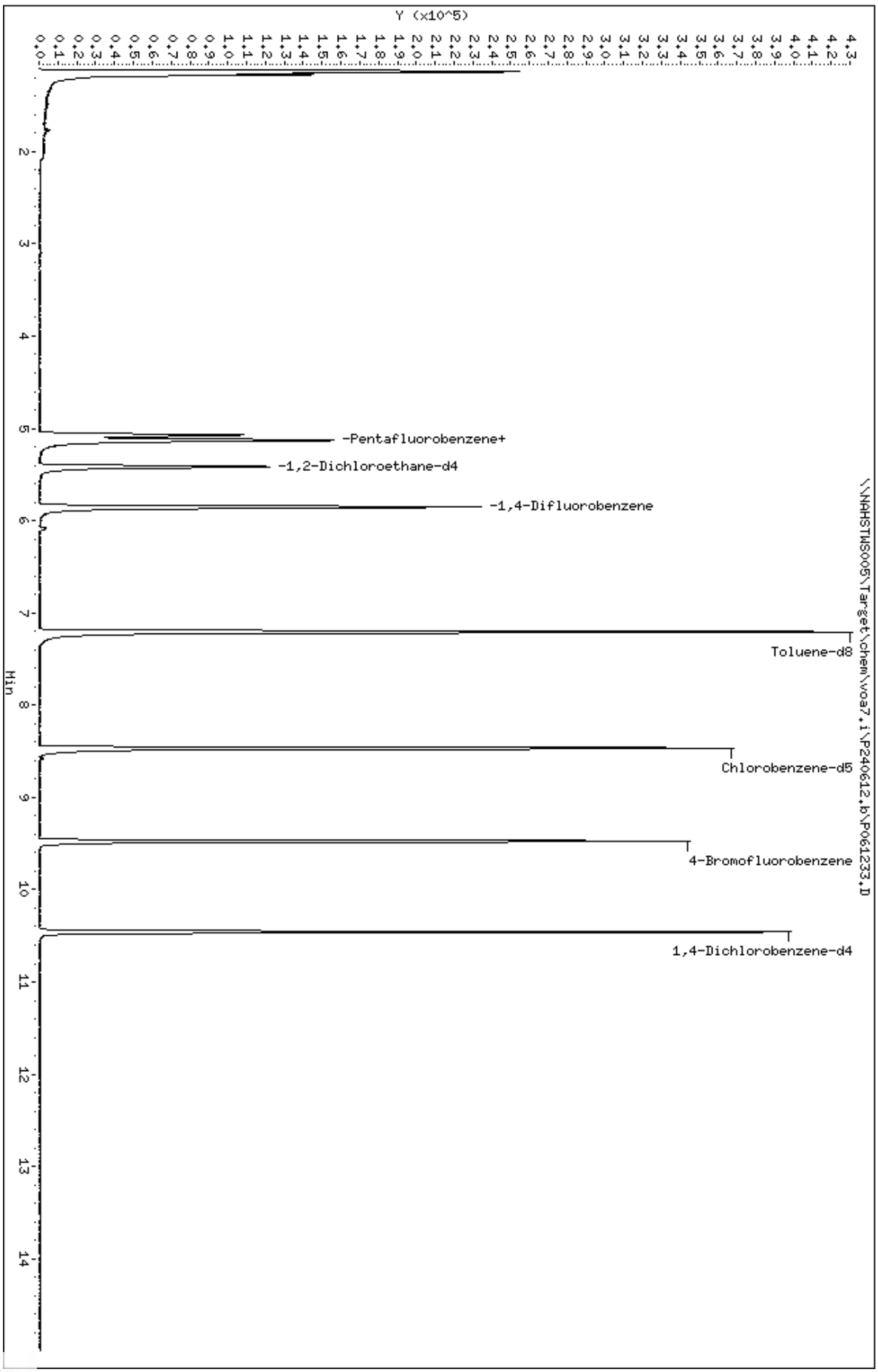
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	5.129	5.130	(1.000)	120076	50.0000	
$ 30 Dibromofluoromethane	113	5.072	5.072	(0.989)	75798	59.0569	59.05(R)
$ 35 1,2-Dichloroethane-d4	65	5.416	5.416	(1.056)	97196	57.6972	57.69
* 36 1,4-Difluorobenzene	114	5.853	5.853	(1.000)	200909	50.0000	
* 47 Chlorobenzene-d5	117	8.467	8.467	(1.000)	197626	50.0000	
$ 48 Toluene-d8	98	7.203	7.207	(0.851)	272816	55.4419	55.44(M)
$ 69 4-Bromofluorobenzene	95	9.473	9.477	(1.119)	106056	54.8043	54.80
* 70 1,4-Dichlorobenzene-d4	152	10.457	10.461	(1.000)	94934	50.0000	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061233.D
Date : 12-JUN-2024 23:09
Client ID:
Sample Info: HS24060434-10
Purge Volume: 5.0
Column phase: DB624

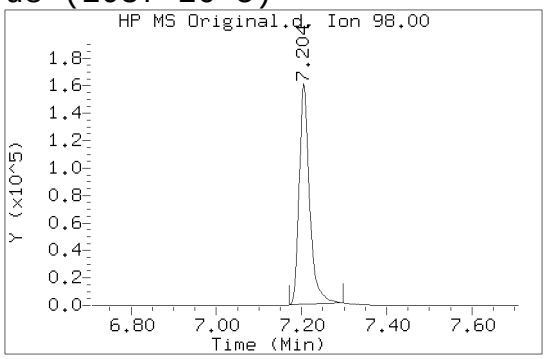
Instrument: voa7.i
Operator: AP
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061233.D
Inj Date : 12-JUN-2024 23:09
InstruID : voa7.i
LabSampID : HS24060434-10

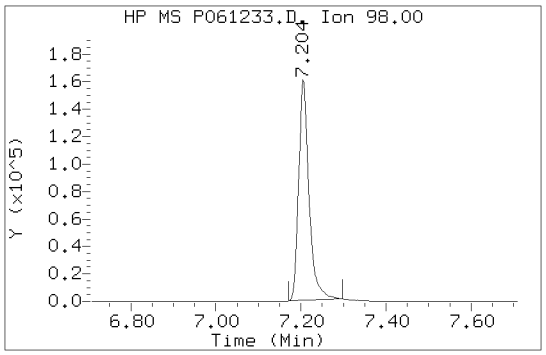
Toluene-d8 (2037-26-5)

Reason Code:

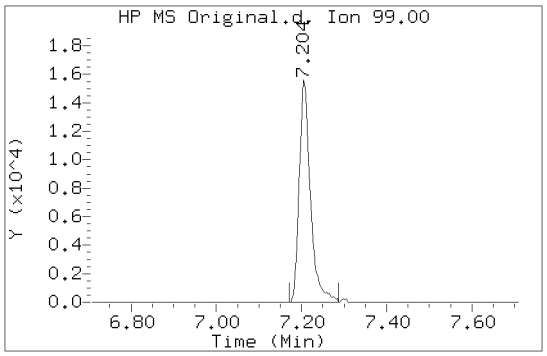
BEFORE
MASS
98
AREA
272816
HEIGHT
160777
15-Jul-2024
11:01
s
zaid



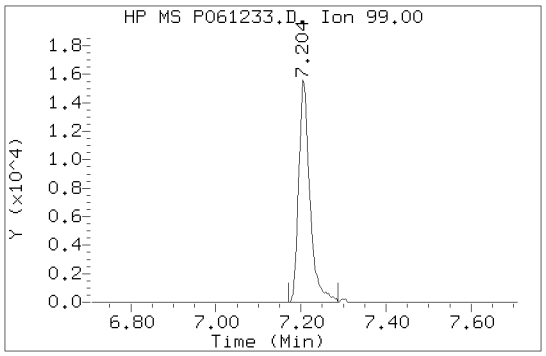
AFTER
MASS
98
AREA
272816
HEIGHT
160777
15-Jul-2024
11:01
s
zaid



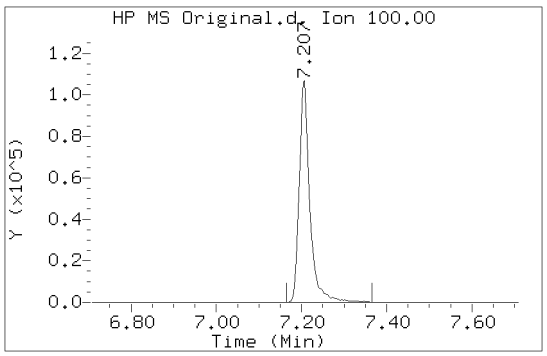
BEFORE
MASS
99
AREA
28625
HEIGHT
15607
15-Jul-2024
11:01
s
zaid



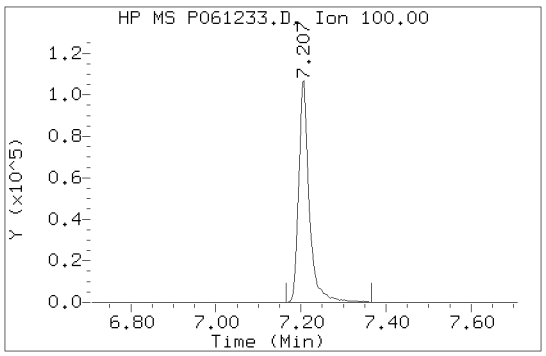
AFTER
MASS
99
AREA
28625
HEIGHT
15607
15-Jul-2024
11:01
s
zaid



BEFORE
MASS
100
AREA
185493
HEIGHT
106832
15-Jul-2024
11:01
s
zaid



AFTER
MASS
100
AREA
185493
HEIGHT
106832
15-Jul-2024
11:01
s
zaid



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061237.D Page 1
Report Date: 15-Jul-2024 11:01

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061237.D
Lab Smp Id: HS24060434-07
Inj Date : 13-JUN-2024 00:45
Operator : AP   Inst ID: voa7.i
Smp Info : HS24060434-07
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240612.b\8260W.m
Meth Date : 15-Jul-2024 11:00 s.zaid   Quant Type: ISTD
Cal Date : 12-JUN-2024 14:46   Cal File: P061211.D
Als bottle: 37
Dil Factor: 25.00000
Integrator: HP RTE   Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

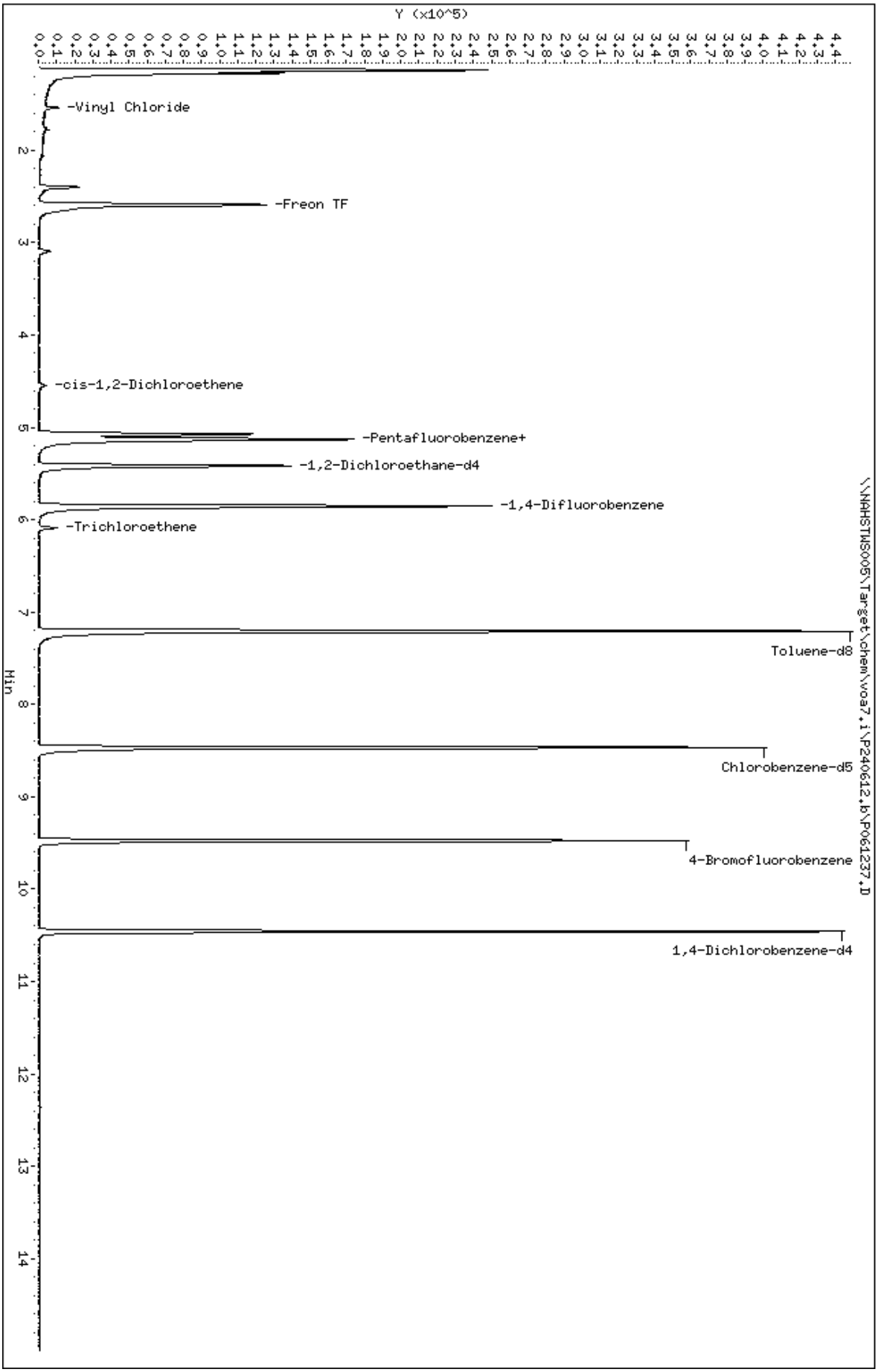
Name	Value	Description
DF	25.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	1 Pentafluorobenzene	168	5.129	5.130	(1.000)	132744	50.0000	
	5 Vinyl Chloride	62	1.538	1.535	(0.300)	6715	3.54005	88.50(H)
	27 cis-1,2-Dichloroethene	96	4.548	4.541	(0.887)	2108	1.35445	33.86
$	30 Dibromofluoromethane	113	5.075	5.072	(0.989)	80417	56.6585	56.65
$	35 1,2-Dichloroethane-d4	65	5.416	5.416	(1.056)	107320	57.6263	57.62
*	36 1,4-Difluorobenzene	114	5.853	5.853	(1.000)	218179	50.0000	
	38 Trichloroethene	130	6.084	6.088	(1.040)	3275	2.15411	53.85
*	47 Chlorobenzene-d5	117	8.467	8.467	(1.000)	208508	50.0000	
$	48 Toluene-d8	98	7.207	7.207	(0.851)	289981	55.8643	55.86(M)
$	69 4-Bromofluorobenzene	95	9.473	9.477	(1.119)	112701	55.2137	55.21
*	70 1,4-Dichlorobenzene-d4	152	10.457	10.461	(1.000)	102548	50.0000	
	138 Freon TF	101	2.593	2.593	(0.505)	70033	51.4178	1285.44
M	94 1,2-Dichloroethylene (total)	96				2108	1.35445	33.86(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

H - Operator selected an alternate compound hit.



Data File: \\NAHSTWS005\Target\chem\voa7,i\P240612,b\P061237,D
Date : 13-JUN-2024 00:45
Client ID:
Sample Info: HS2406043-07
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7,i
Operator: AP
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061237.D Page 2

Date : 13-JUN-2024 00:45

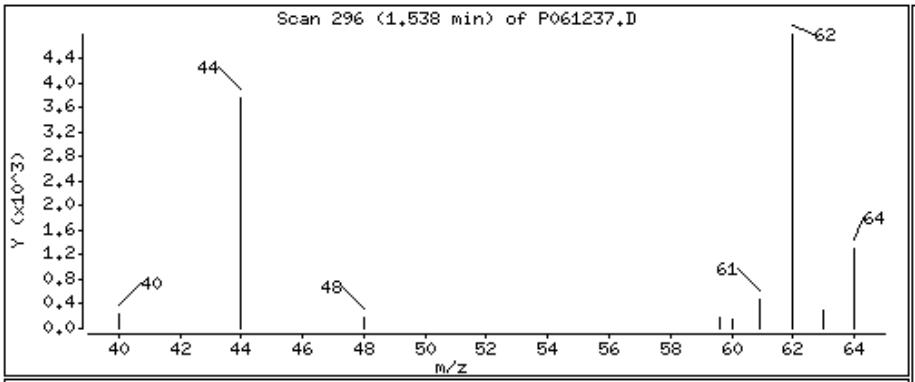
Client ID: Instrument: voa7.i

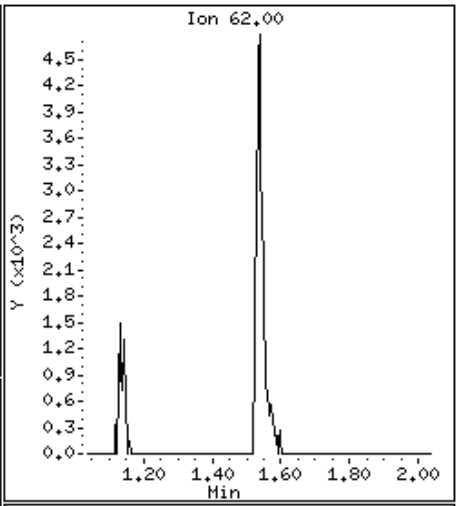
Sample Info: HS24060434-07

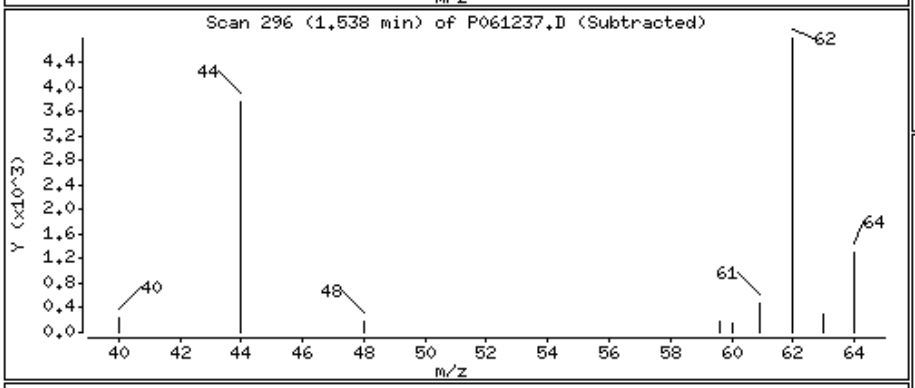
Purge Volume: 5.0 Operator: AP

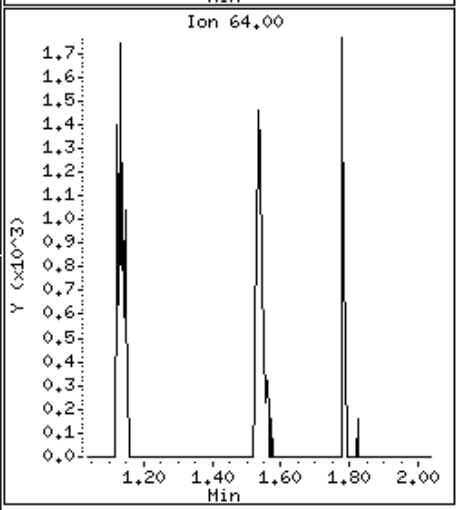
Column phase: DB624 Column diameter: 0.18

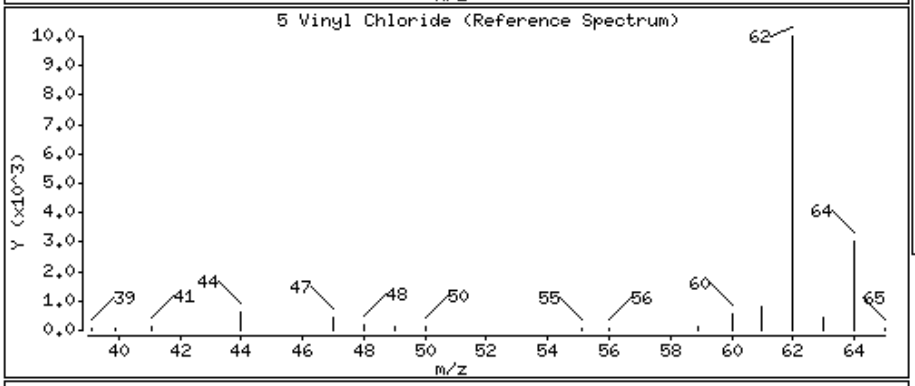
5 Vinyl Chloride Concentration: 88.50 ug/l

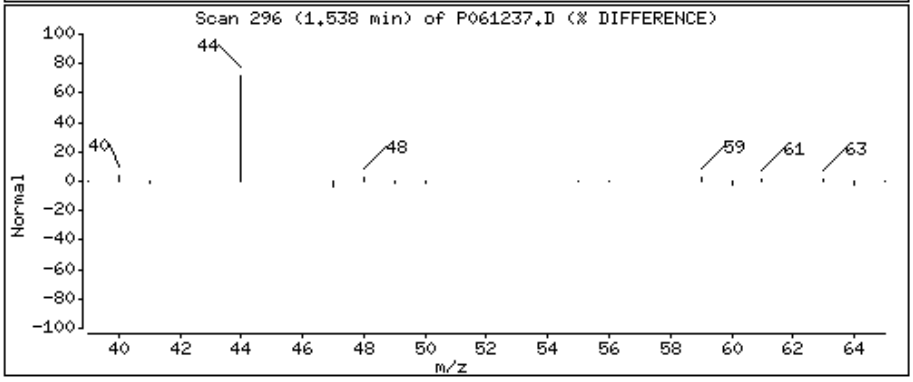












Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061237.D Page 3

Date : 13-JUN-2024 00:45

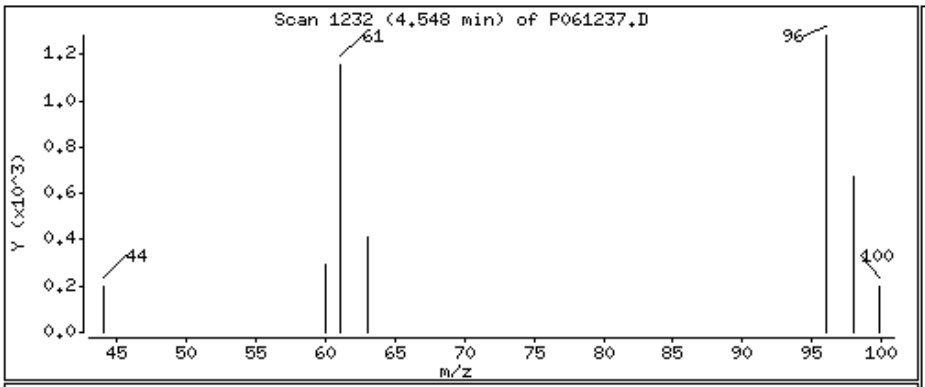
Client ID: Instrument: voa7.i

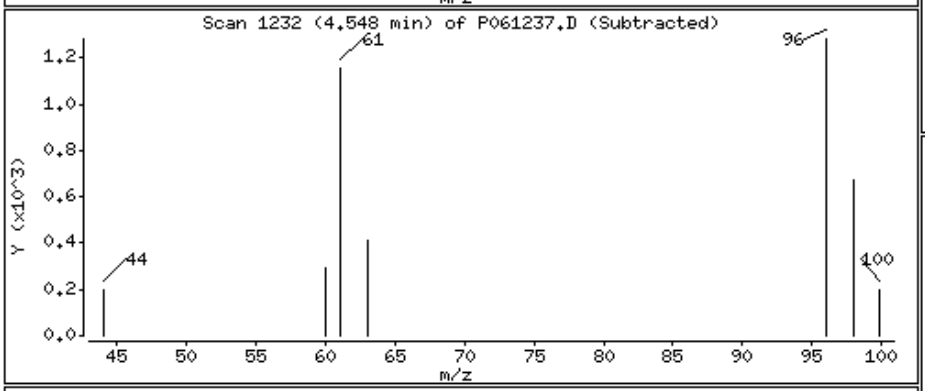
Sample Info: HS24060434-07

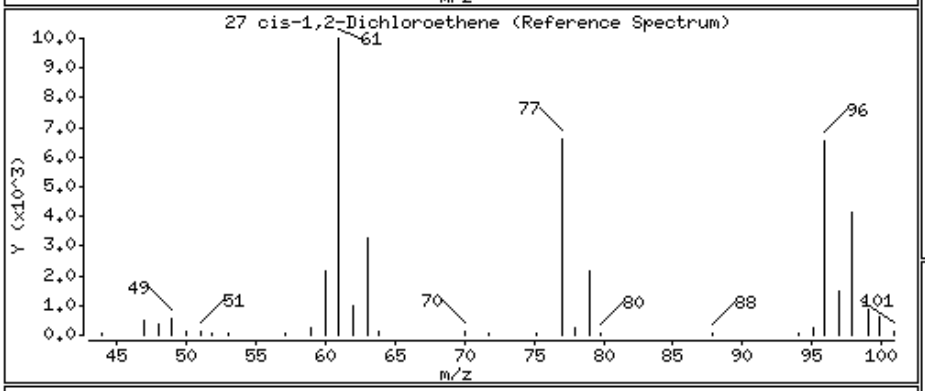
Purge Volume: 5.0 Operator: AP

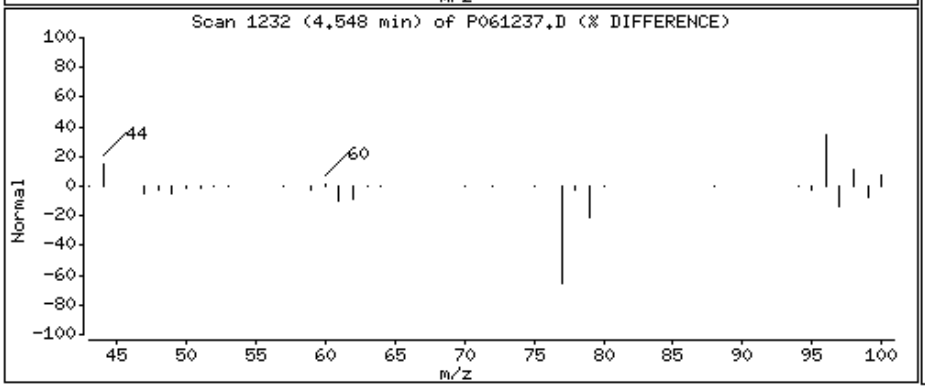
Column phase: DB624 Column diameter: 0.18

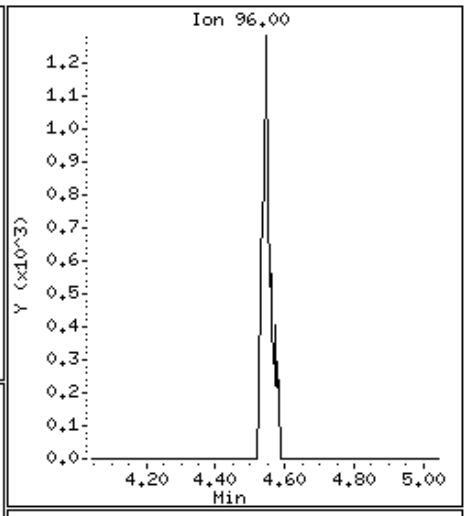
27 cis-1,2-Dichloroethene Concentration: 33.86 ug/l

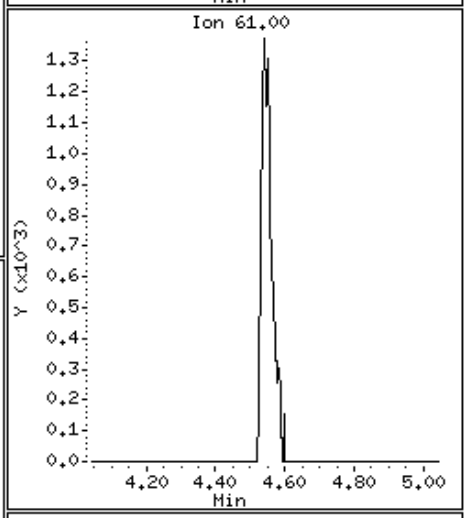


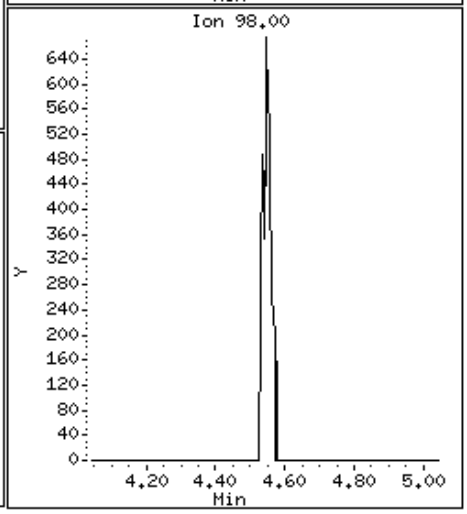












Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061237.D Page 4

Date : 13-JUN-2024 00:45

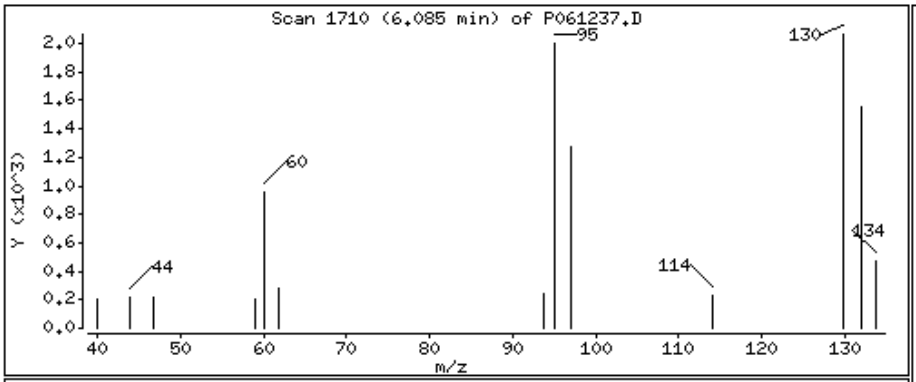
Client ID: Instrument: voa7.i

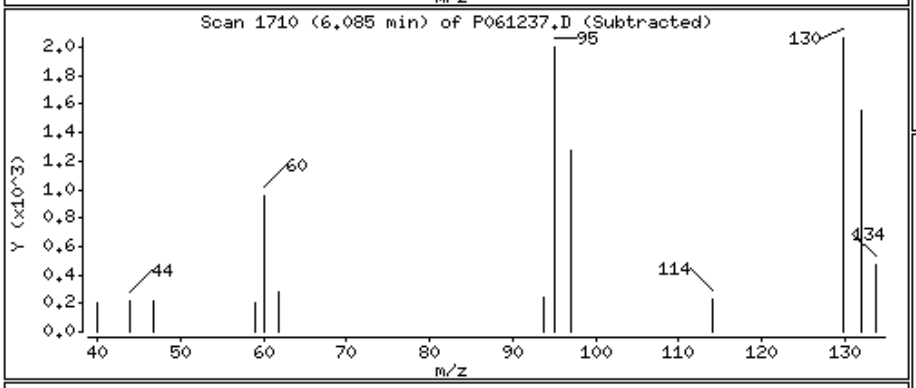
Sample Info: HS24060434-07

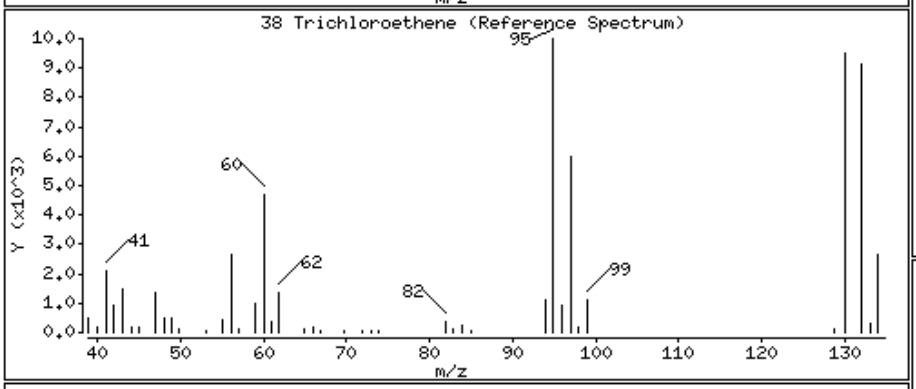
Purge Volume: 5.0 Operator: AP

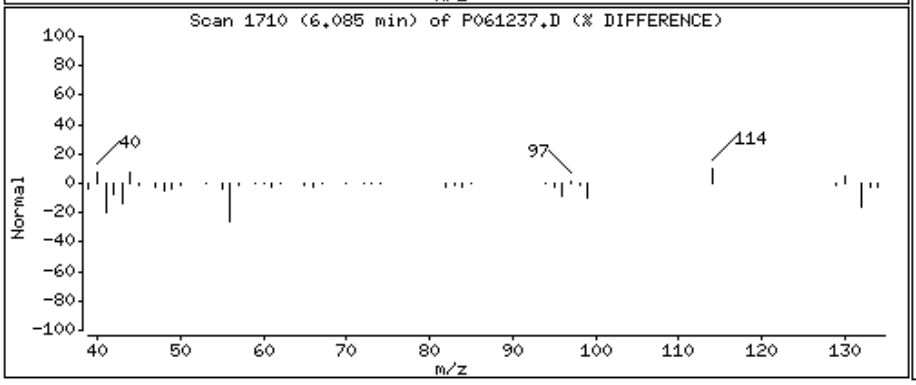
Column phase: DB624 Column diameter: 0.18

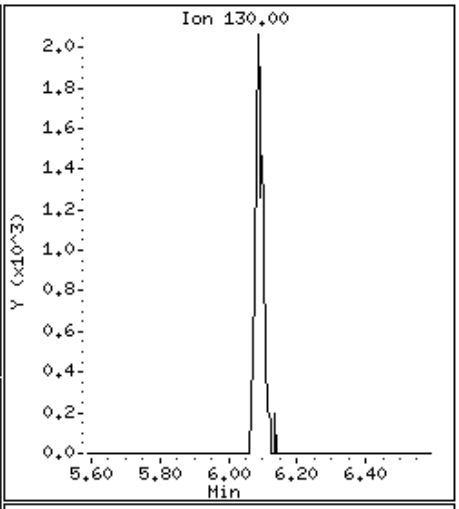
38 Trichloroethene Concentration: 53.85 ug/l

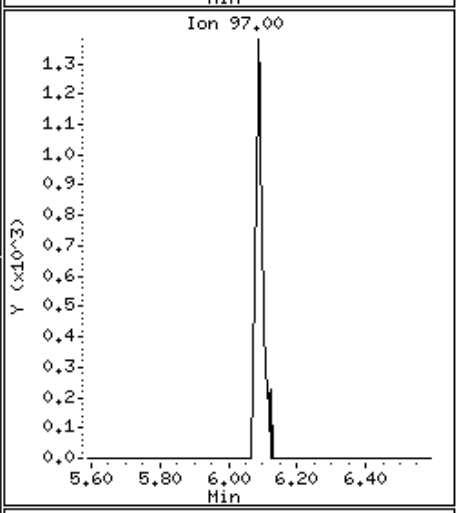


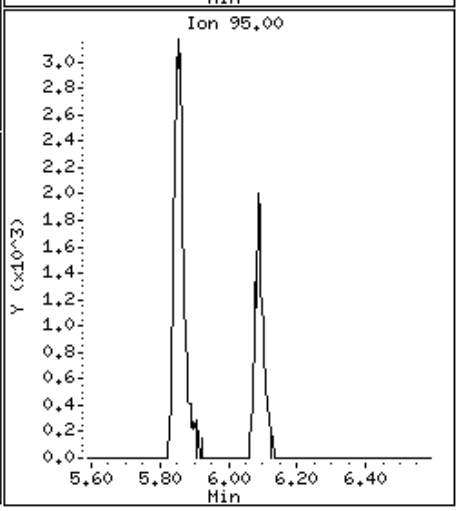












Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061237.D Page 5

Date : 13-JUN-2024 00:45

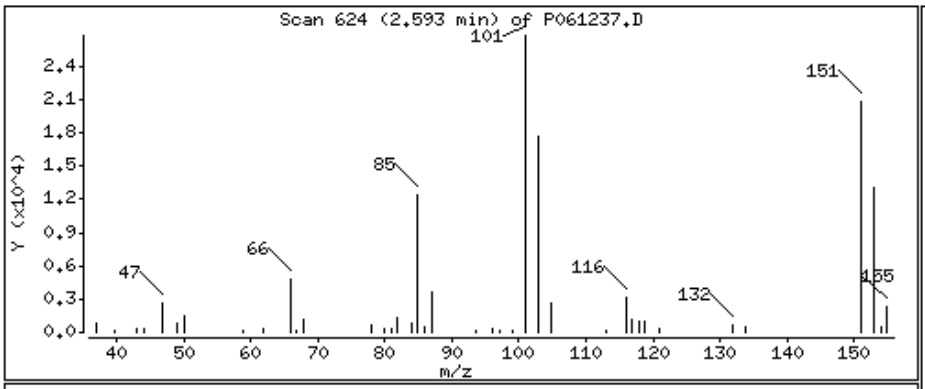
Client ID: Instrument: voa7.i

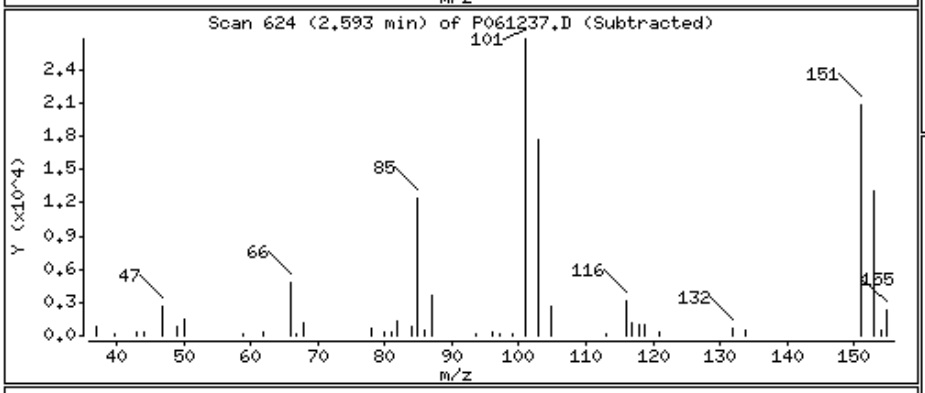
Sample Info: HS24060434-07

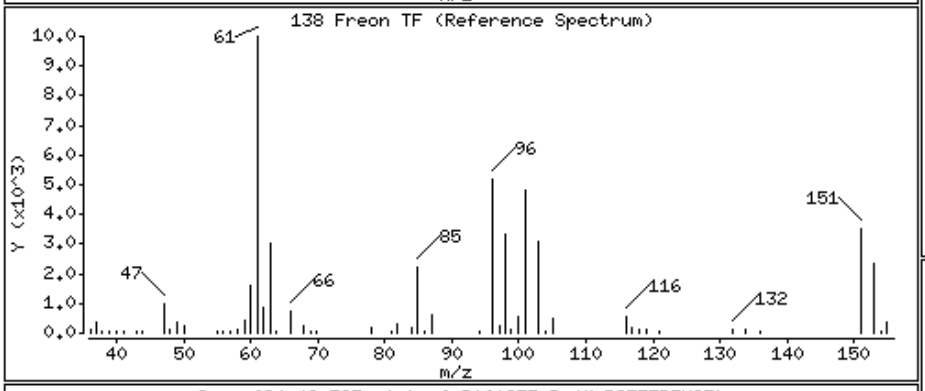
Purge Volume: 5.0 Operator: AP

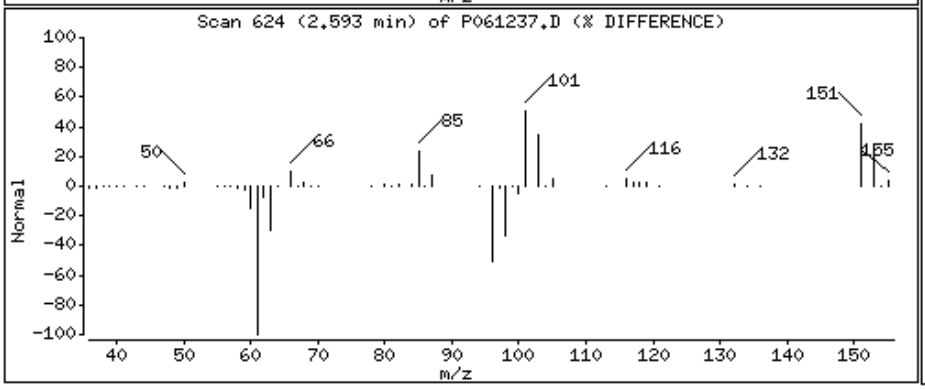
Column phase: DB624 Column diameter: 0.18

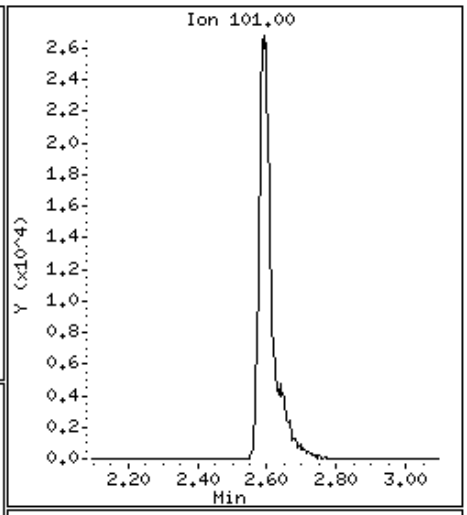
138 Freon TF Concentration: 1285.44 ug/l

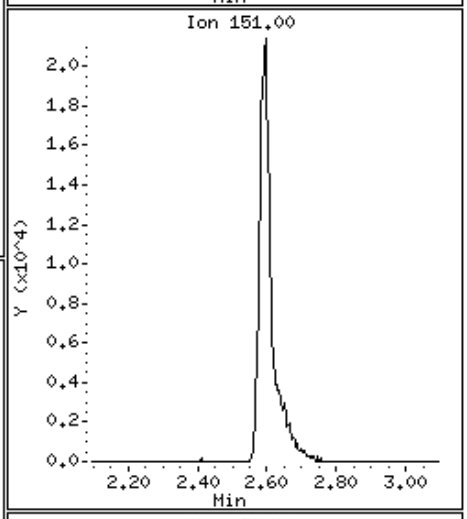


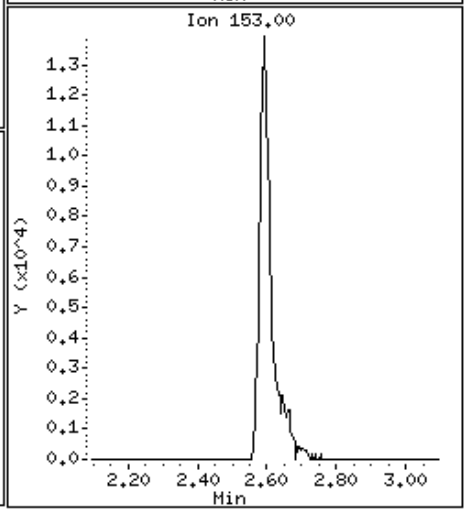










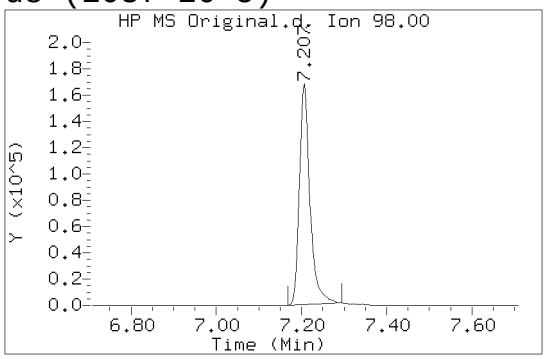


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061237.D
Inj Date : 13-JUN-2024 00:45
InstruID : voa7.i
LabSampID : HS24060434-07

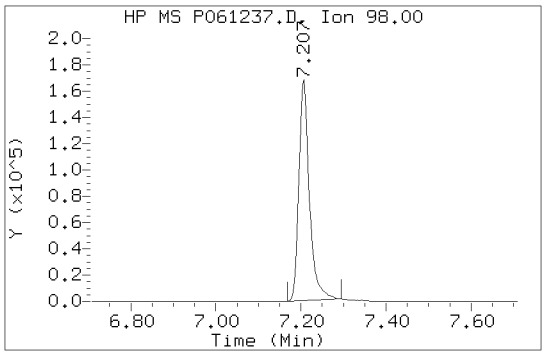
Toluene-d8 (2037-26-5)

Reason Code:

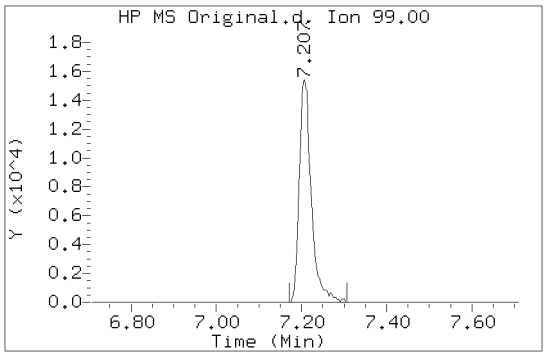
BEFORE
MASS
98
AREA
289981
HEIGHT
168105
15-Jul-2024
11:01
s
zaid



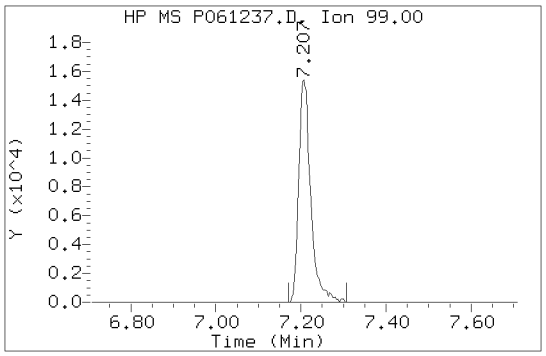
AFTER
MASS
98
AREA
289981
HEIGHT
168105
15-Jul-2024
11:01
s
zaid



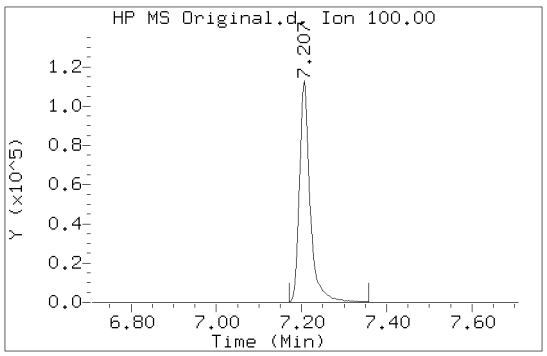
BEFORE
MASS
99
AREA
30453
HEIGHT
15409
15-Jul-2024
11:01
s
zaid



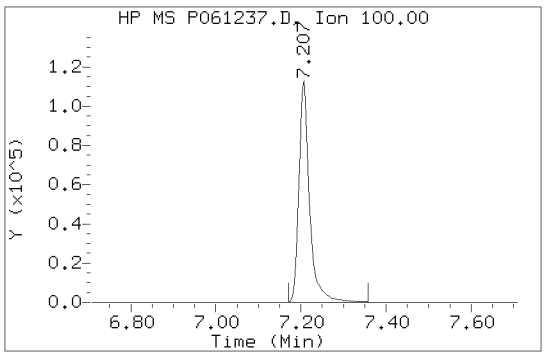
AFTER
MASS
99
AREA
30453
HEIGHT
15409
15-Jul-2024
11:01
s
zaid



BEFORE
MASS
100
AREA
197673
HEIGHT
112952
15-Jul-2024
11:01
s
zaid



AFTER
MASS
100
AREA
197673
HEIGHT
112952
15-Jul-2024
11:01
s
zaid



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061238.D Page 1
Report Date: 15-Jul-2024 11:01

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061238.D
Lab Smp Id: HS24060434-05
Inj Date : 13-JUN-2024 01:08
Operator : AP   Inst ID: voa7.i
Smp Info : HS24060434-05
Misc Info : HS220328V7;WATER;0;;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240612.b\8260W.m
Meth Date : 15-Jul-2024 11:00 s.zaid   Quant Type: ISTD
Cal Date : 12-JUN-2024 14:46   Cal File: P061211.D
Als bottle: 38
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

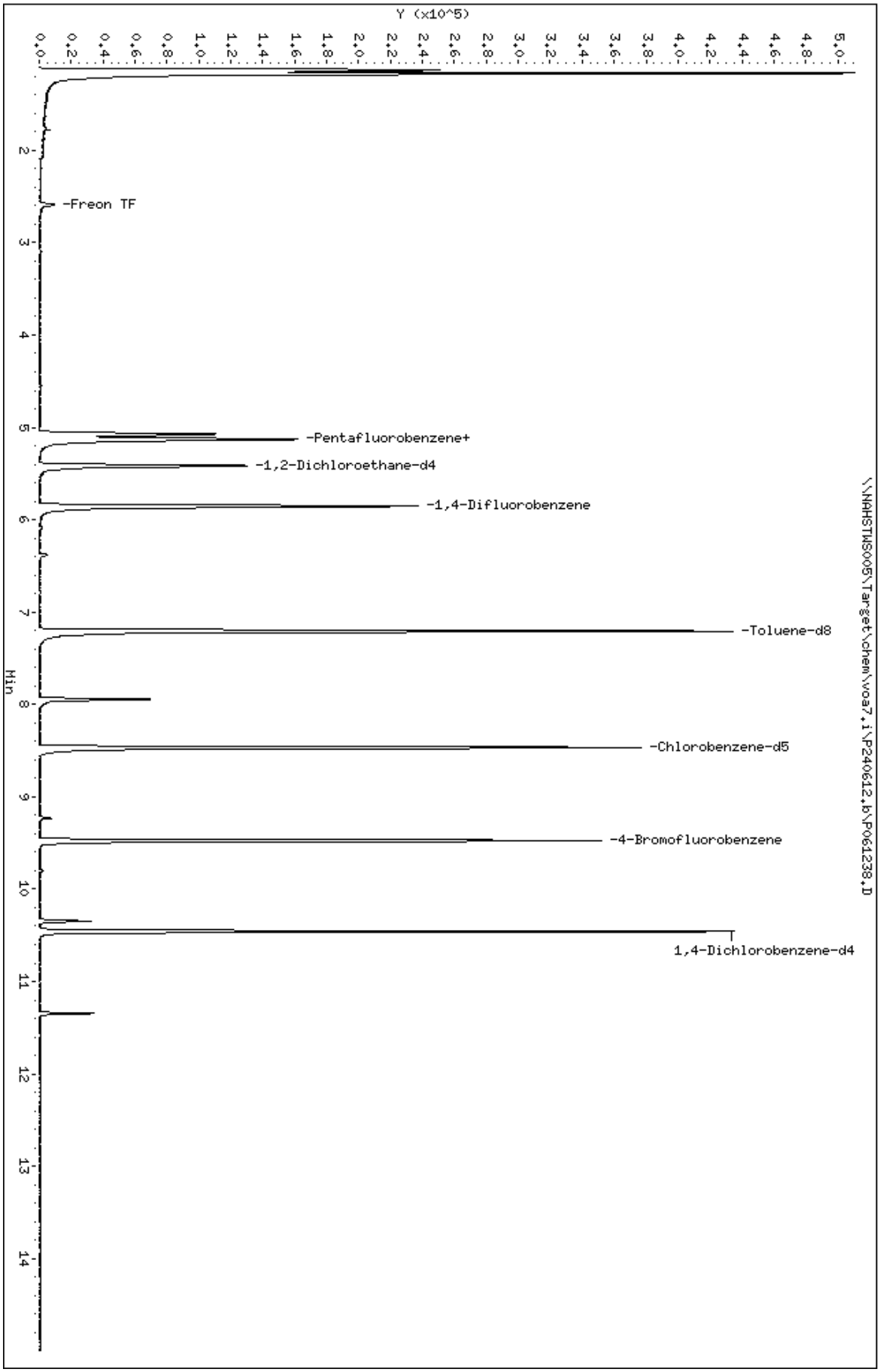
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	5.133	5.130	(1.000)	126324	50.0000	
$ 30 Dibromofluoromethane	113	5.072	5.072	(0.988)	76757	56.8295	56.82
$ 35 1,2-Dichloroethane-d4	65	5.416	5.416	(1.055)	103224	58.2523	58.25
* 36 1,4-Difluorobenzene	114	5.853	5.853	(1.000)	208139	50.0000	
* 47 Chlorobenzene-d5	117	8.467	8.467	(1.000)	201824	50.0000	
$ 48 Toluene-d8	98	7.207	7.207	(0.851)	281010	55.9304	55.93(M)
$ 69 4-Bromofluorobenzene	95	9.473	9.477	(1.119)	108510	54.9099	54.90
* 70 1,4-Dichlorobenzene-d4	152	10.457	10.461	(1.000)	98961	50.0000	
138 Freon TF	101	2.593	2.593	(0.505)	5148	4.53084	4.53

QC Flag Legend

M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061238.D
Date : 13-JUN-2024 01:08
Client ID:
Sample Info: HS240604J4-05
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7.i
Operator: AP
Column diameter: 0.18

Page 1

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061238.D Page 2

Date : 13-JUN-2024 01:08

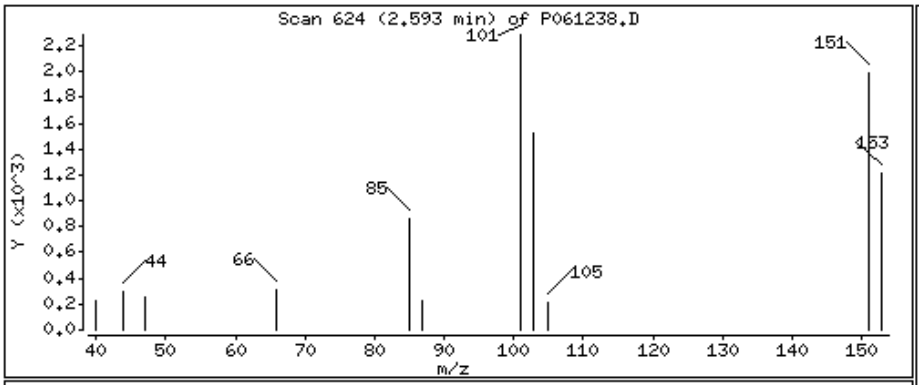
Client ID: Instrument: voa7.i

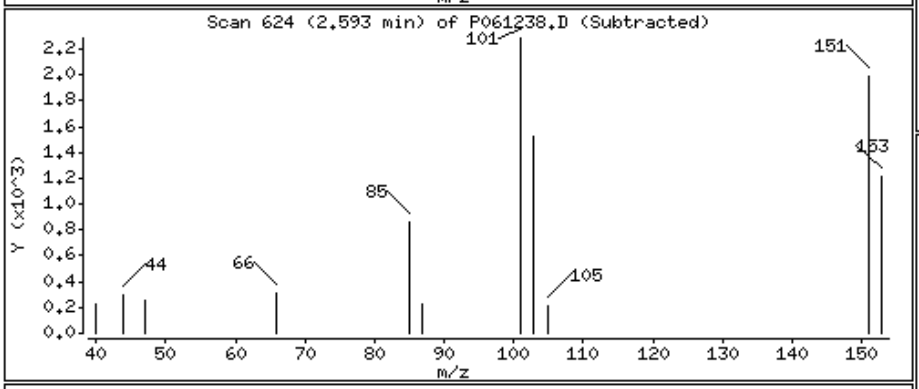
Sample Info: HS24060434-05

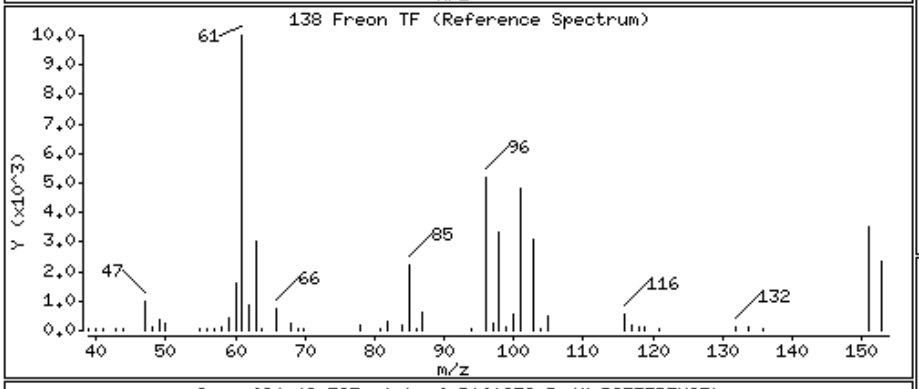
Purge Volume: 5.0 Operator: AP

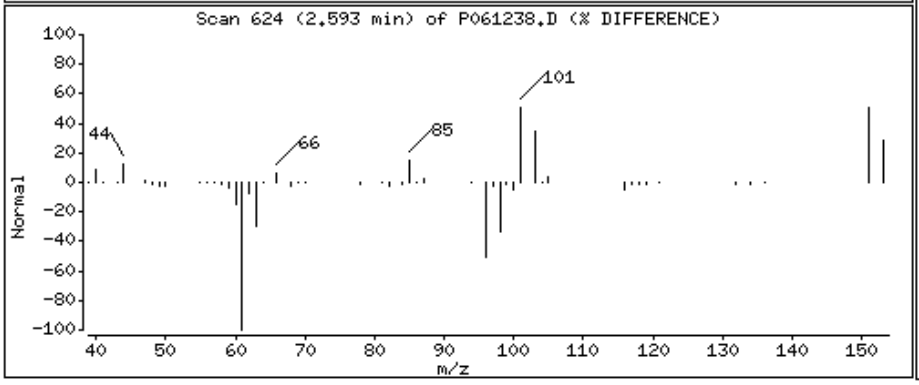
Column phase: DB624 Column diameter: 0.18

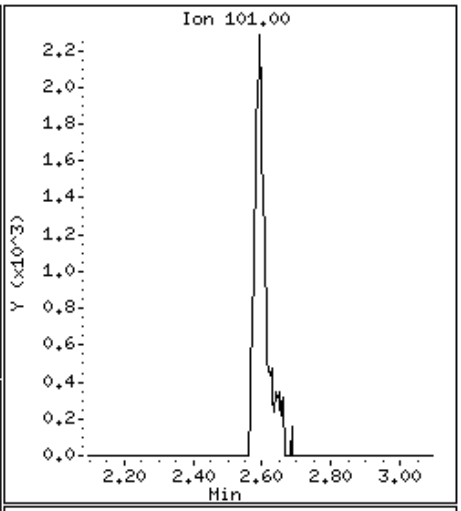
138 Freon TF Concentration: 4.53 ug/l

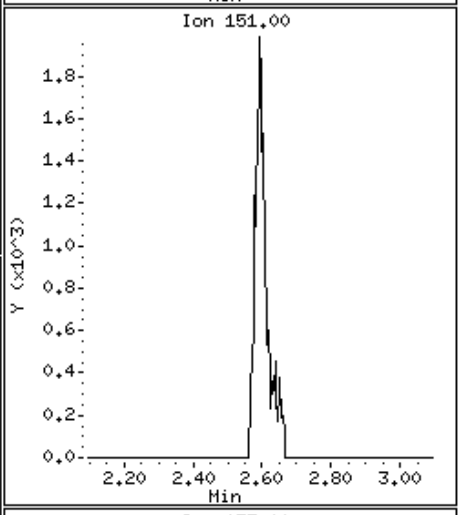


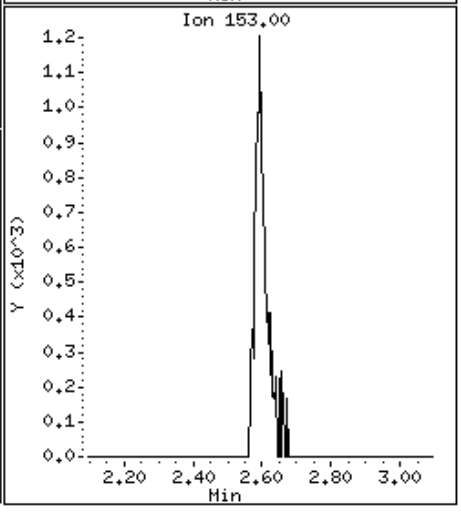










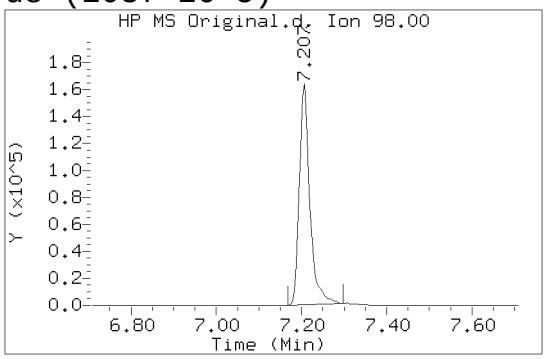


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061238.D
Inj Date : 13-JUN-2024 01:08
InstruID : voa7.i
LabSampID : HS24060434-05

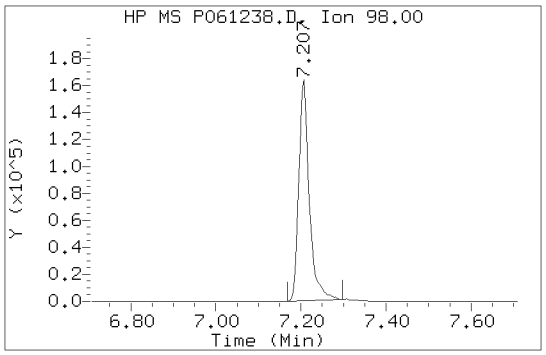
Toluene-d8 (2037-26-5)

Reason Code:

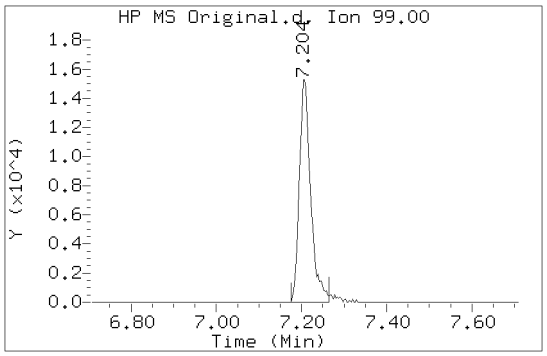
BEFORE
MASS
98
AREA
281010
HEIGHT
163853
15-Jul-2024
11:01
s
zaid



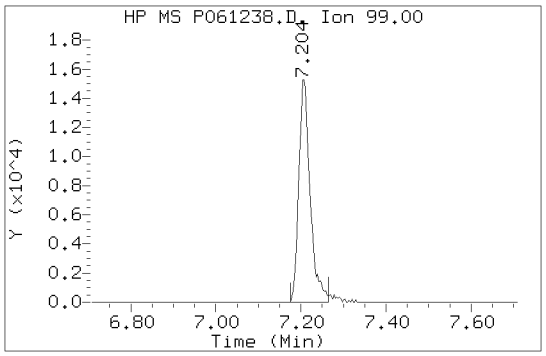
AFTER
MASS
98
AREA
281010
HEIGHT
163853
15-Jul-2024
11:01
s
zaid



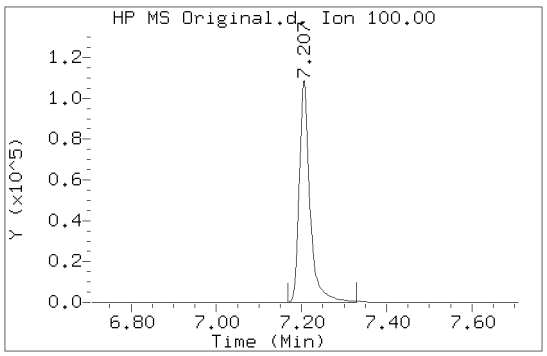
BEFORE
MASS
99
AREA
28397
HEIGHT
15265
15-Jul-2024
11:01
s
zaid



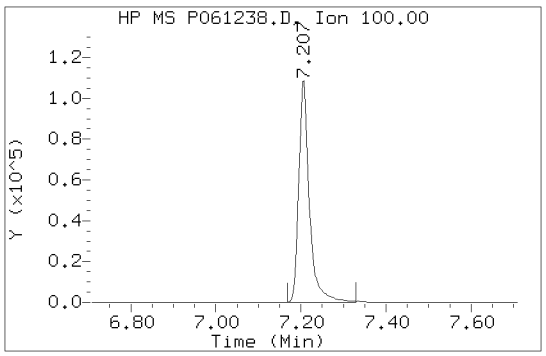
AFTER
MASS
99
AREA
28397
HEIGHT
15265
15-Jul-2024
11:01
s
zaid



BEFORE
MASS
100
AREA
190246
HEIGHT
108656
15-Jul-2024
11:01
s
zaid



AFTER
MASS
100
AREA
190246
HEIGHT
108656
15-Jul-2024
11:01
s
zaid



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061239.D Page 1
Report Date: 15-Jul-2024 11:01

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061239.D
Lab Smp Id: HS24060434-01
Inj Date : 13-JUN-2024 01:31
Operator : AP   Inst ID: voa7.i
Smp Info : HS24060434-01
Misc Info : HS220328V7;WATER;0;250;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240612.b\8260W.m
Meth Date : 15-Jul-2024 11:00 s.zaid   Quant Type: ISTD
Cal Date : 12-JUN-2024 14:46   Cal File: P061211.D
Als bottle: 39
Dil Factor: 250.00000
Integrator: HP RTE   Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

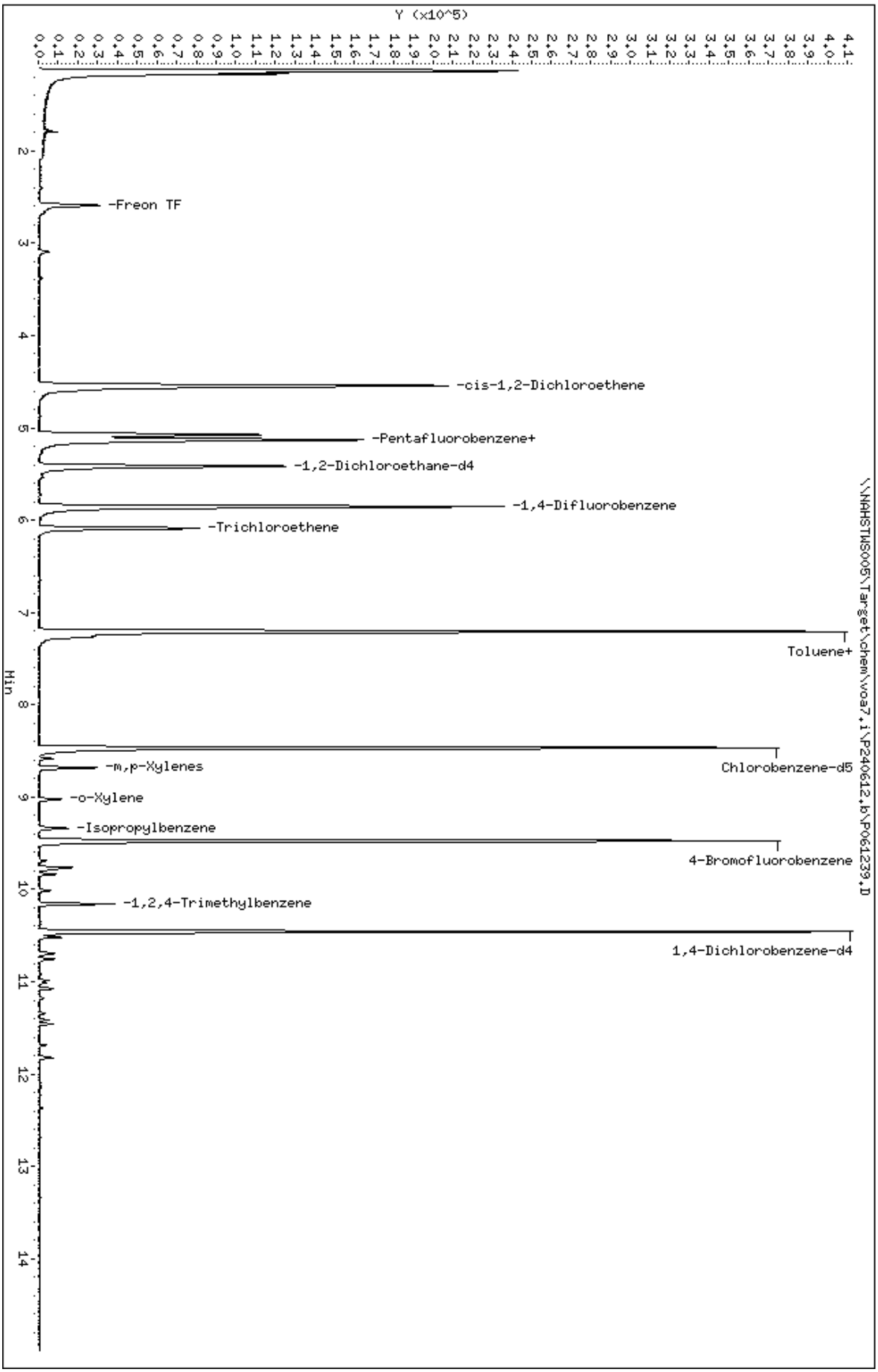
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	250.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	1 Pentafluorobenzene	168	5.130	5.130	(1.000)	124938	50.0000	
	27 cis-1,2-Dichloroethene	96	4.544	4.541	(0.886)	114631	77.2809	19320.23
$	30 Dibromofluoromethane	113	5.075	5.072	(0.989)	76501	57.2718	57.27
$	35 1,2-Dichloroethane-d4	65	5.413	5.416	(1.055)	101365	57.8322	57.83
*	36 1,4-Difluorobenzene	114	5.853	5.853	(1.000)	205819	50.0000	
	38 Trichloroethene	130	6.091	6.088	(1.041)	27577	19.2615	4815.38
*	47 Chlorobenzene-d5	117	8.467	8.467	(1.000)	196686	50.0000	
$	48 Toluene-d8	98	7.204	7.207	(0.851)	268167	54.7415	54.74(M)
	50 Toluene	91	7.261	7.265	(0.858)	11295	1.14657	286.64
	62 m,p-Xylenes	106	8.683	8.686	(1.025)	7218	1.84916	462.29(a)
	63 o-Xylene	106	9.023	9.023	(1.066)	2809	0.53957	134.89(a)
	67 Isopropylbenzene	105	9.339	9.338	(1.103)	9424	1.08521	271.30
$	69 4-Bromofluorobenzene	95	9.474	9.477	(1.119)	117949	61.4881	61.48(R)
*	70 1,4-Dichlorobenzene-d4	152	10.457	10.461	(1.000)	96531	50.0000	
	79 1,2,4-Trimethylbenzene	105	10.158	10.155	(0.971)	18433	2.76091	690.22
	138 Freon TF	101	2.586	2.593	(0.504)	15127	12.2669	3066.73
M	94 1,2-Dichloroethylene (total)	96				114631	77.2809	19320.23
M	95 Xylenes (total)	106				10027	2.38873	597.18(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa7,i\P240612,b\P061239,D
Date : 13-JUN-2024 01:31
Client ID:
Sample Info: HS2406043-01
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7,i
Operator: AP
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061239.D Page 2

Date : 13-JUN-2024 01:31

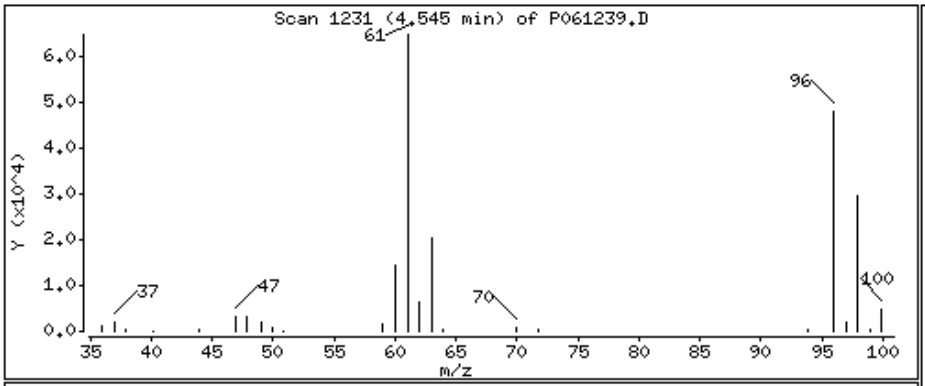
Client ID: Instrument: voa7.i

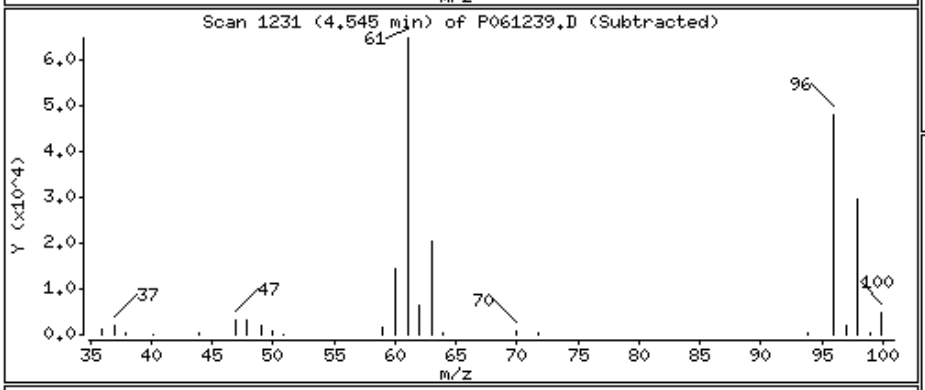
Sample Info: HS24060434-01

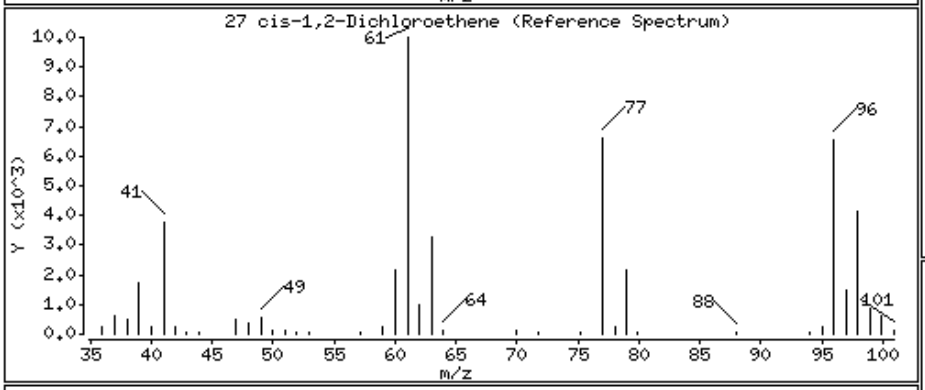
Purge Volume: 5.0 Operator: AP

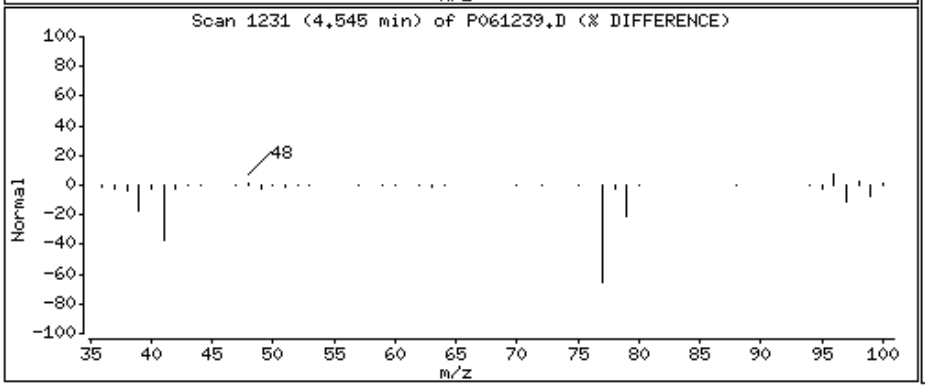
Column phase: DB624 Column diameter: 0.18

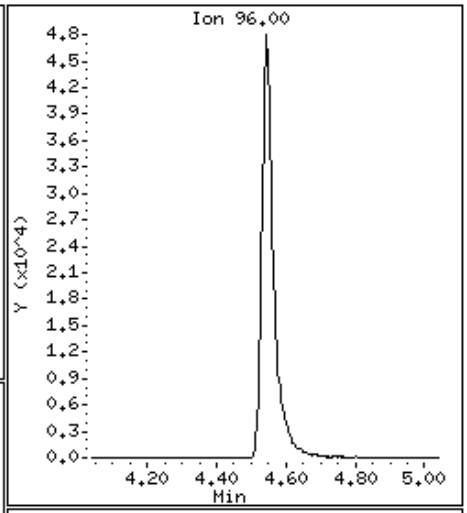
27 cis-1,2-Dichloroethene Concentration: 19320.23 ug/l

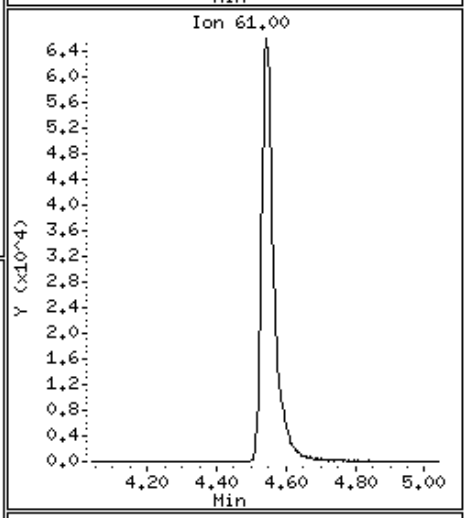


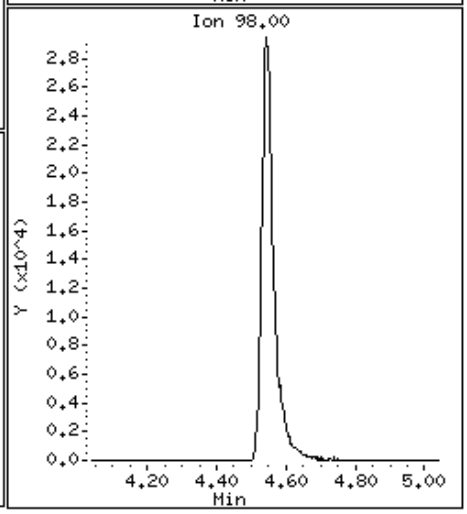












Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061239.D Page 3

Date : 13-JUN-2024 01:31

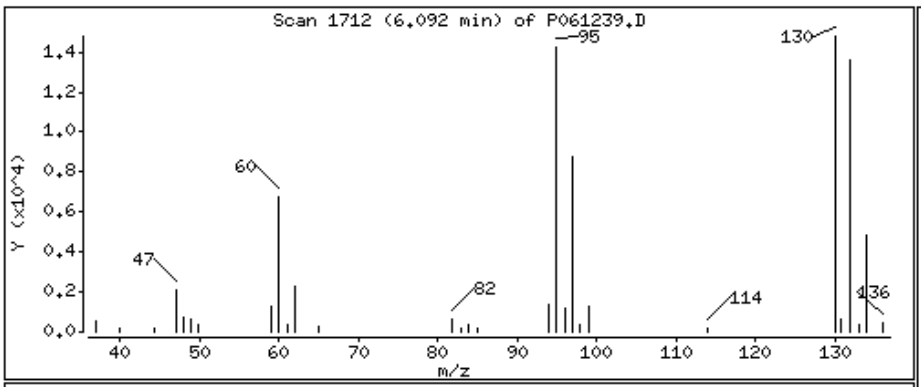
Client ID: Instrument: voa7.i

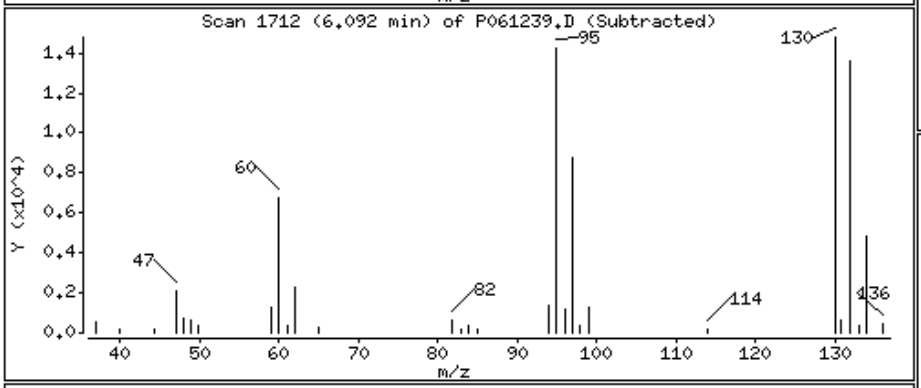
Sample Info: HS24060434-01

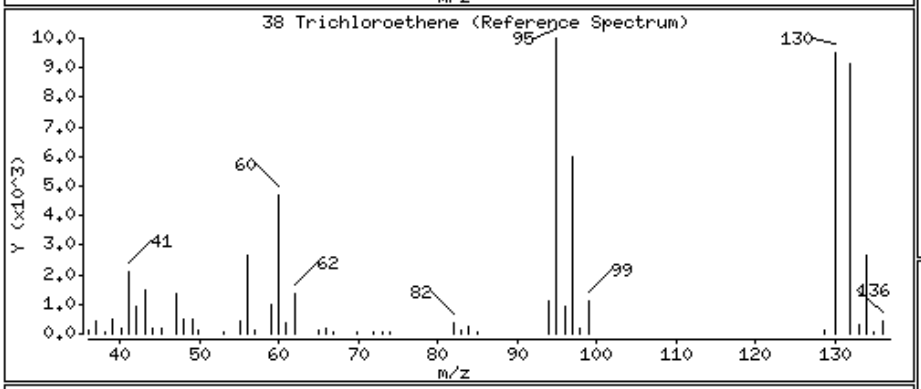
Purge Volume: 5.0 Operator: AP

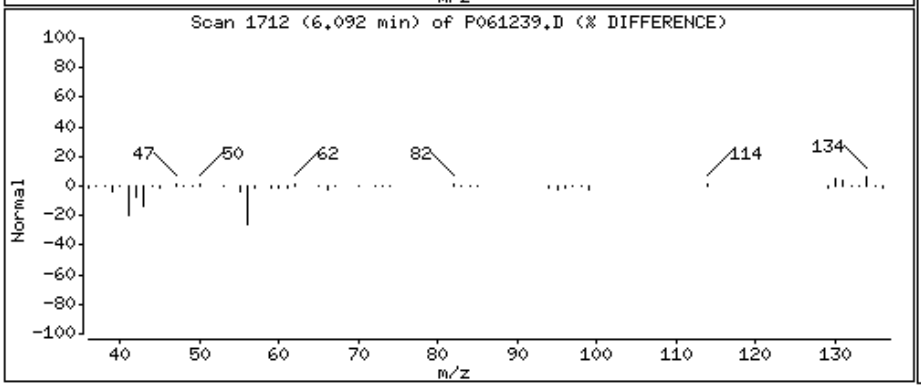
Column phase: DB624 Column diameter: 0.18

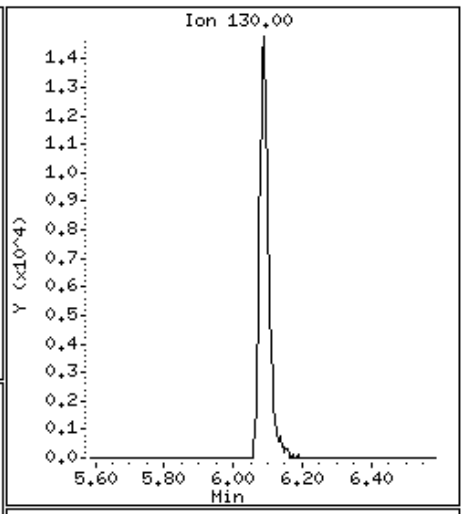
38 Trichloroethene Concentration: 4815.38 ug/l

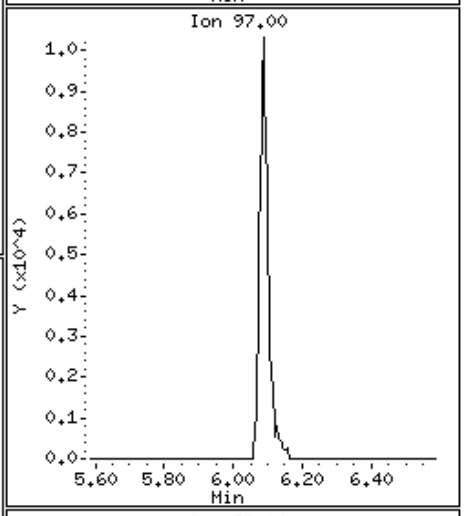


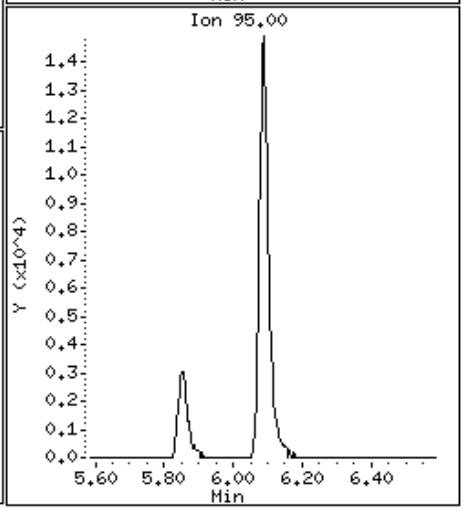












Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061239.D Page 4

Date : 13-JUN-2024 01:31

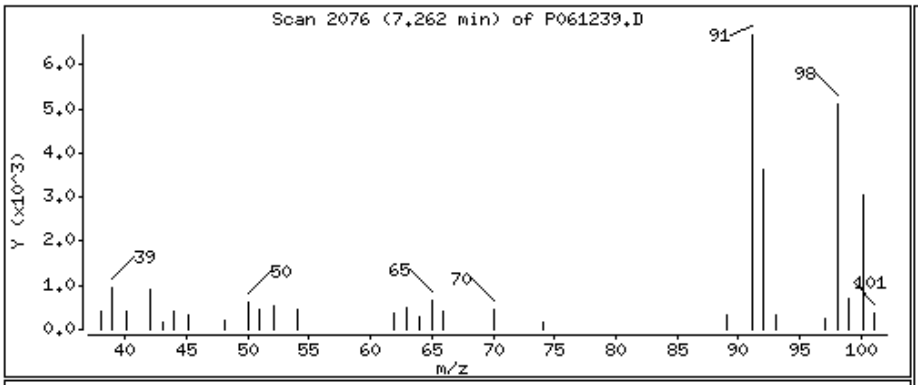
Client ID: Instrument: voa7.i

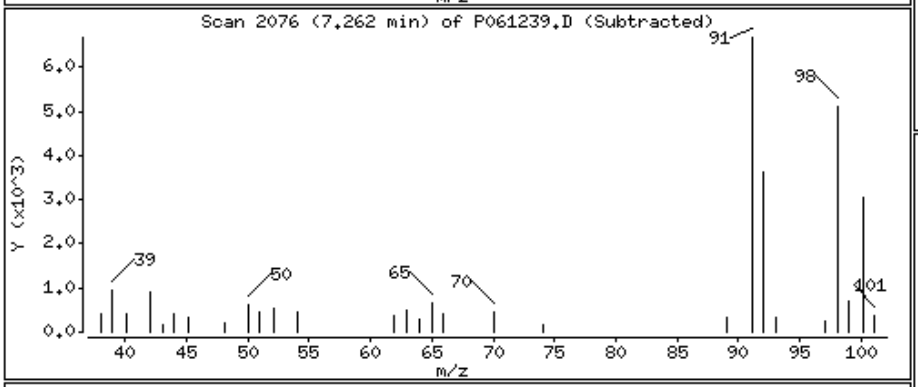
Sample Info: HS24060434-01

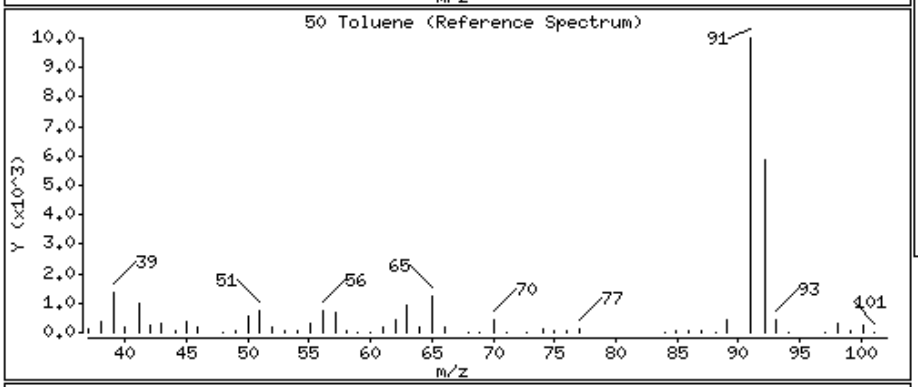
Purge Volume: 5.0 Operator: AP

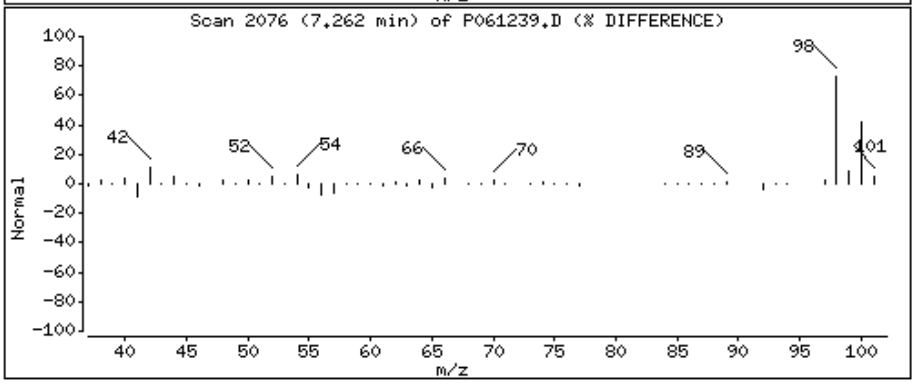
Column phase: DB624 Column diameter: 0.18

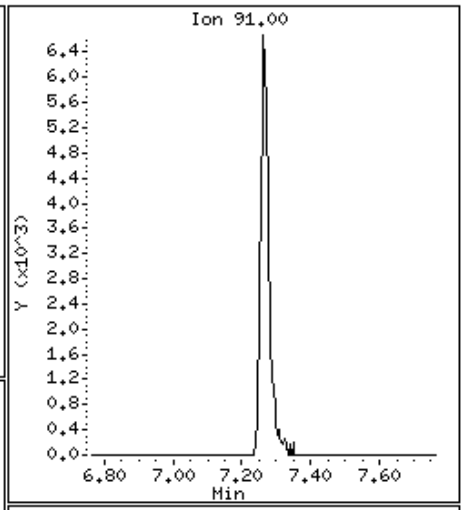
50 Toluene Concentration: 286.64 ug/l

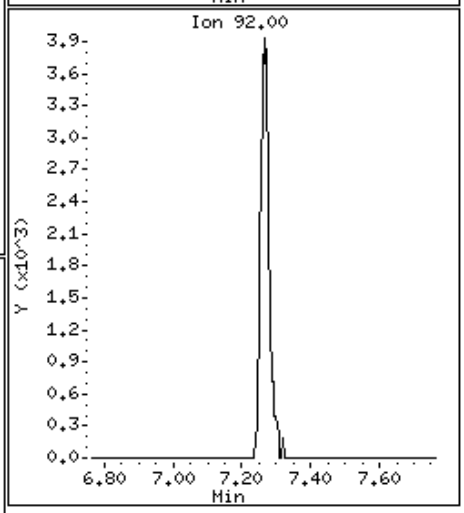












Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061239.D Page 5

Date : 13-JUN-2024 01:31

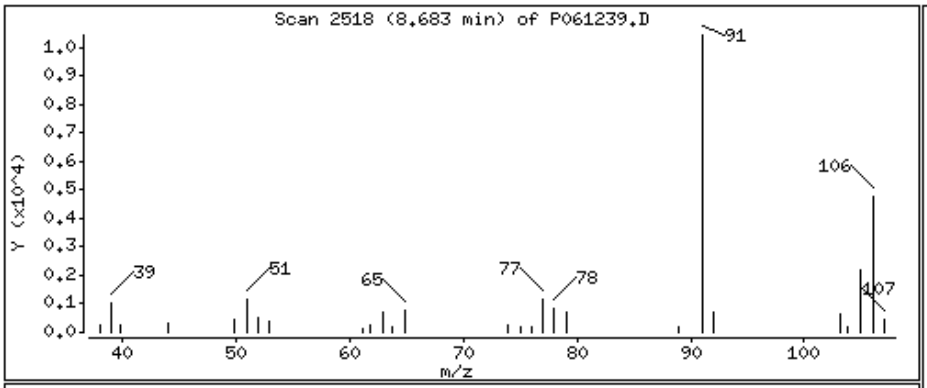
Client ID: Instrument: voa7.i

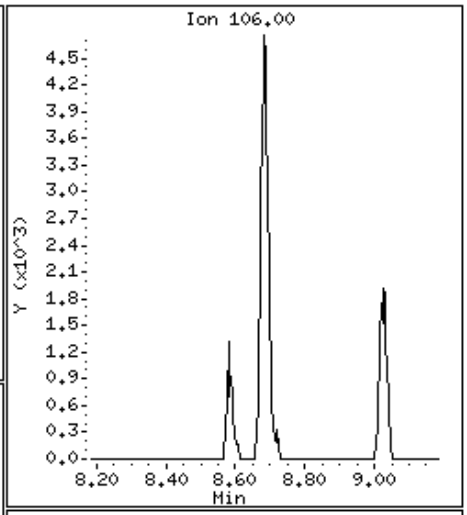
Sample Info: HS24060434-01

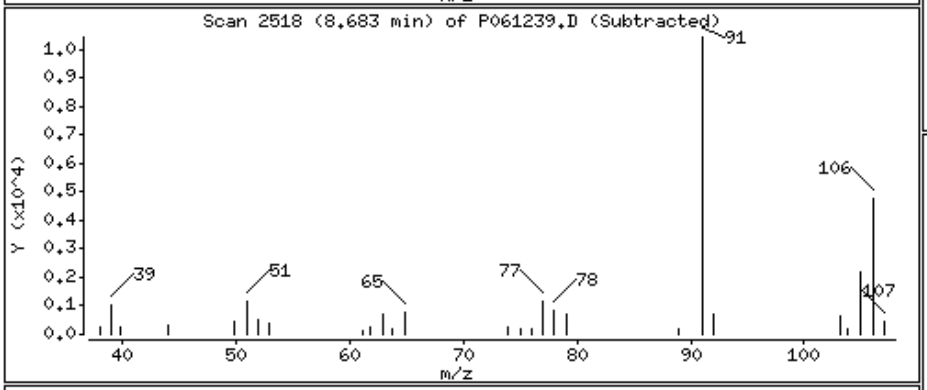
Purge Volume: 5.0 Operator: AP

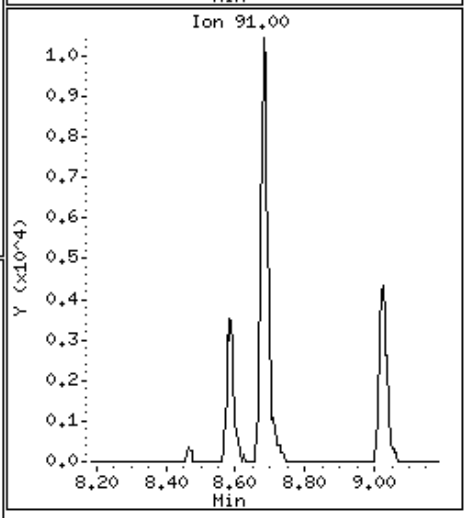
Column phase: DB624 Column diameter: 0.18

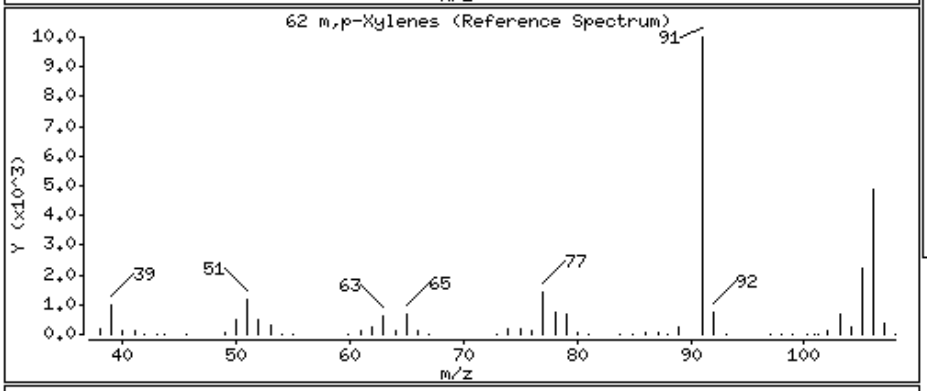
62 m,p-Xylenes Concentration: 462.29 ug/l

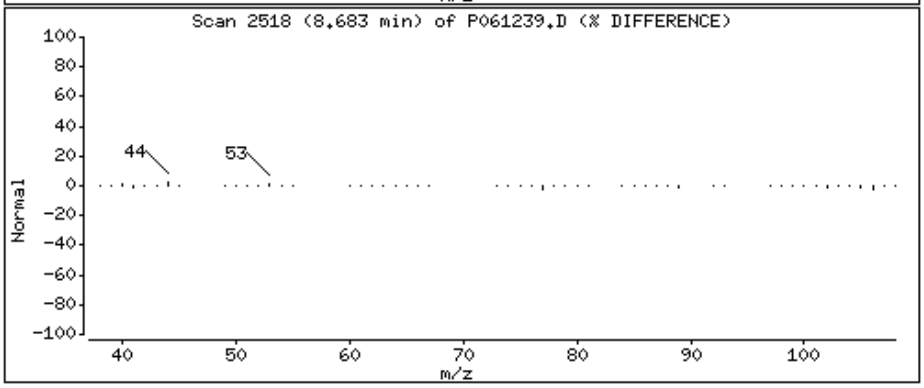












Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061239.D Page 6

Date : 13-JUN-2024 01:31

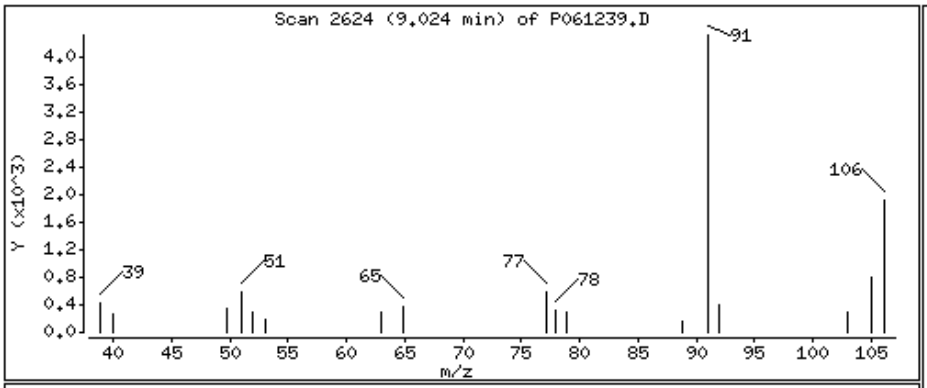
Client ID: Instrument: voa7.i

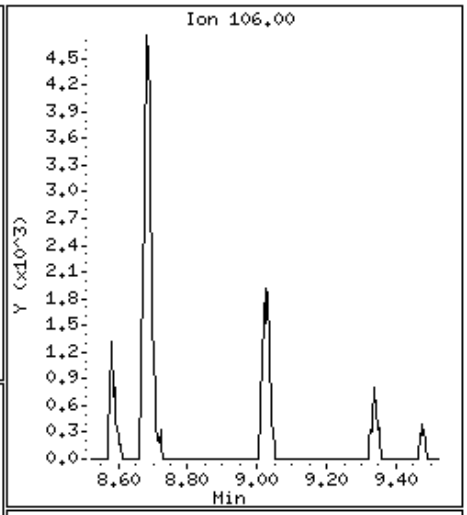
Sample Info: HS24060434-01

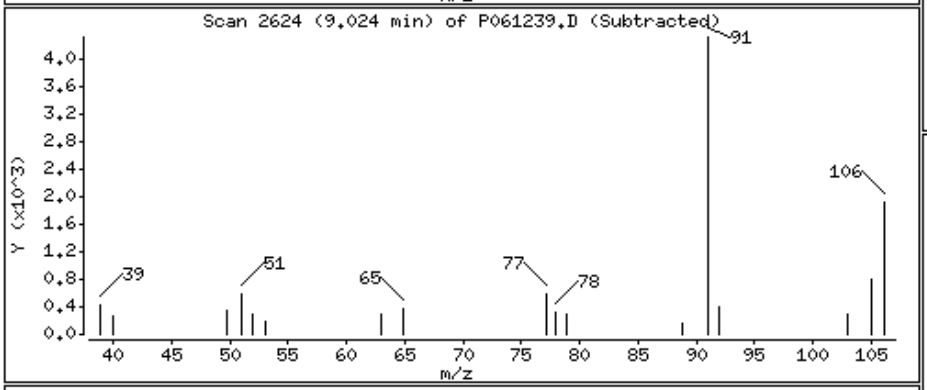
Purge Volume: 5.0 Operator: AP

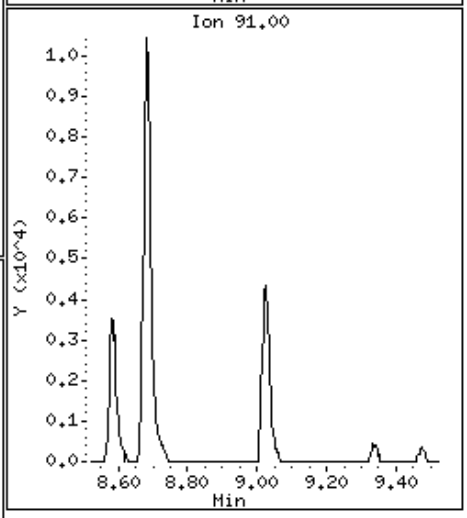
Column phase: DB624 Column diameter: 0.18

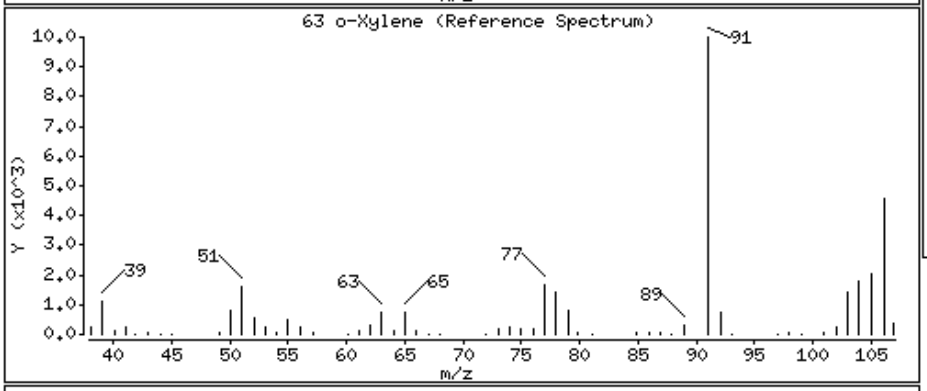
63 o-Xylene Concentration: 134.89 ug/l

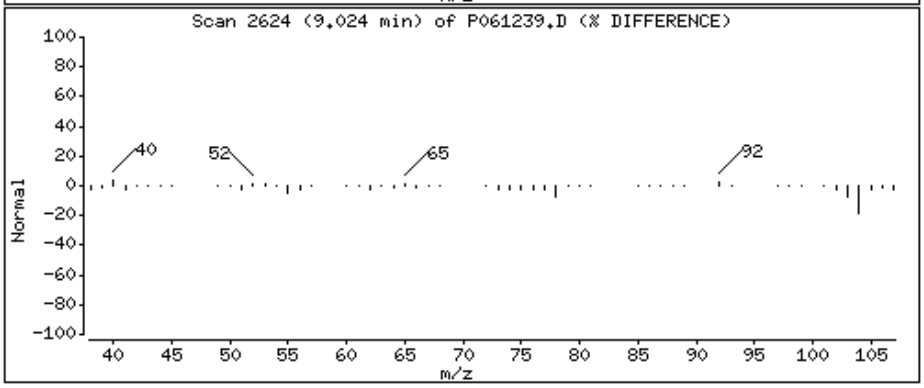












Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061239.D Page 7

Date : 13-JUN-2024 01:31

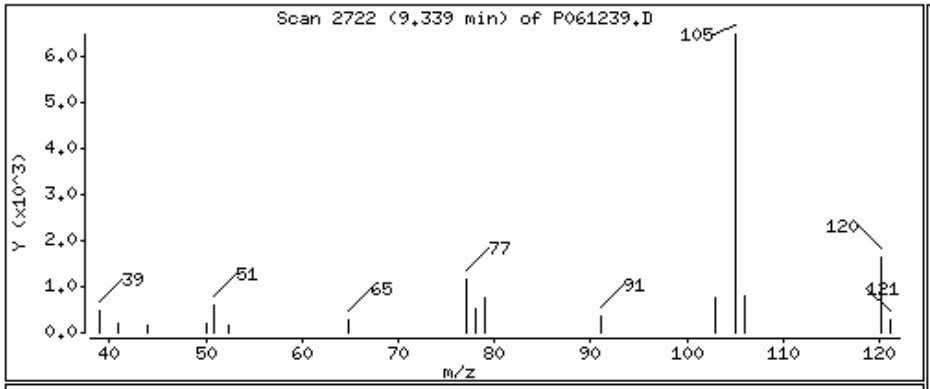
Client ID: Instrument: voa7.i

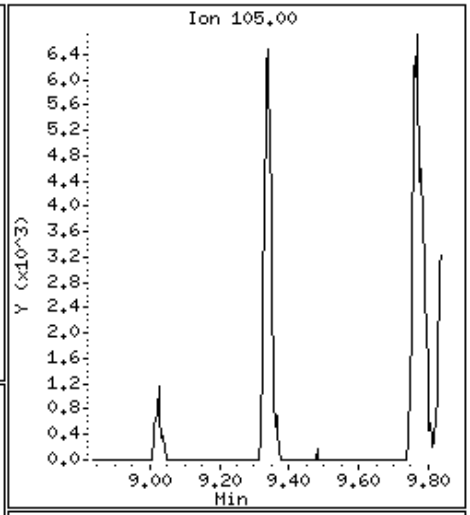
Sample Info: HS24060434-01

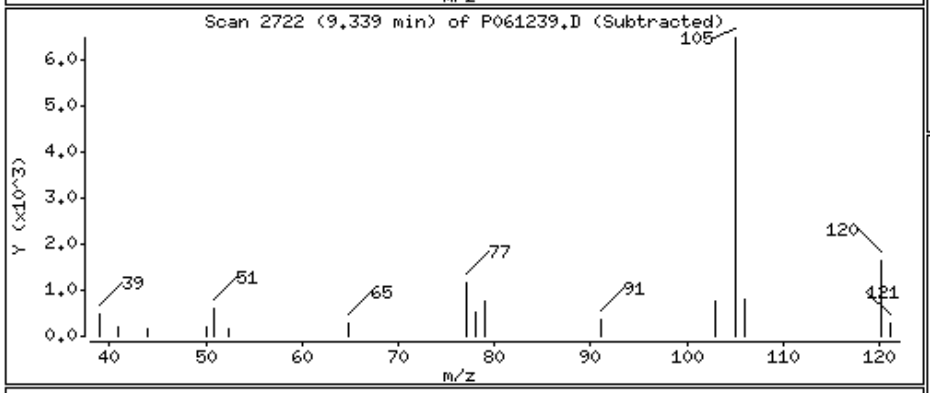
Purge Volume: 5.0 Operator: AP

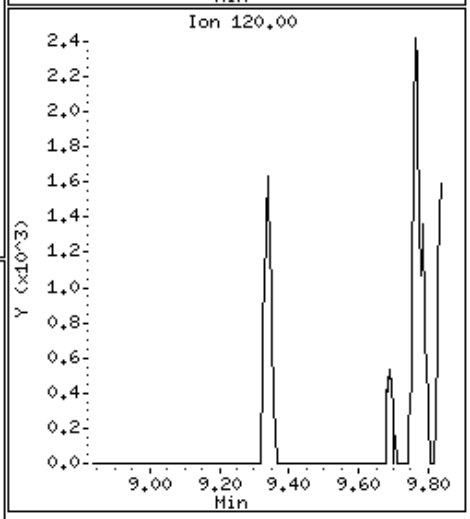
Column phase: DB624 Column diameter: 0.18

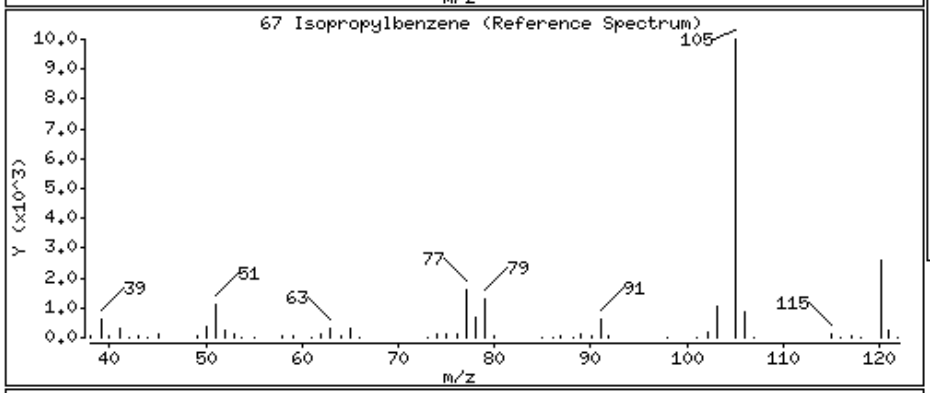
67 Isopropylbenzene Concentration: 271.30 ug/l

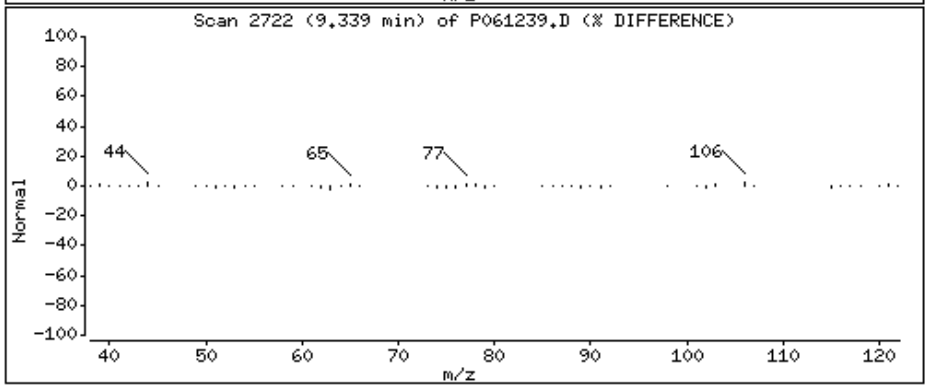












Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061239.D Page 8

Date : 13-JUN-2024 01:31

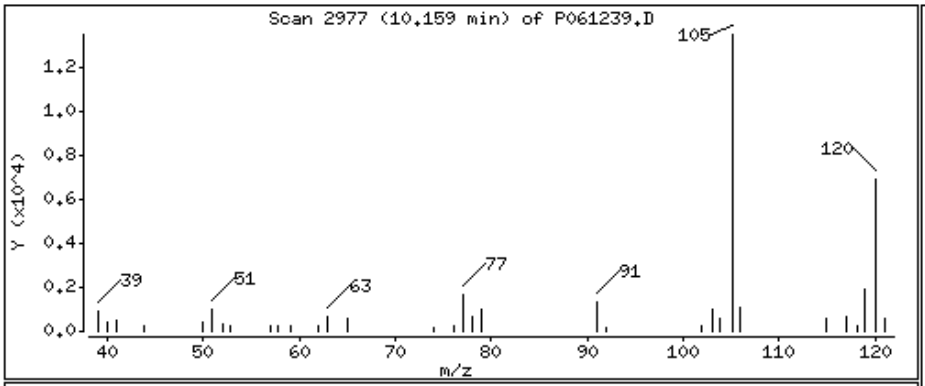
Client ID: Instrument: voa7.i

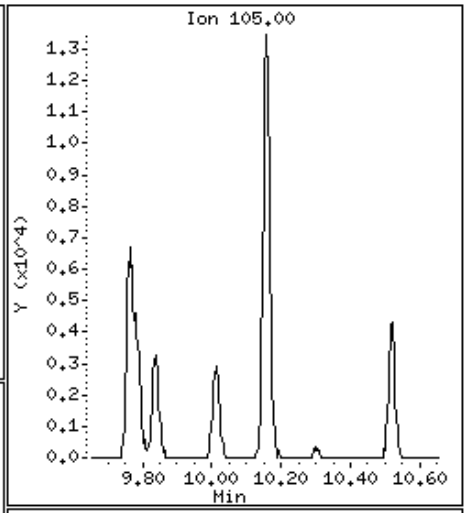
Sample Info: HS24060434-01

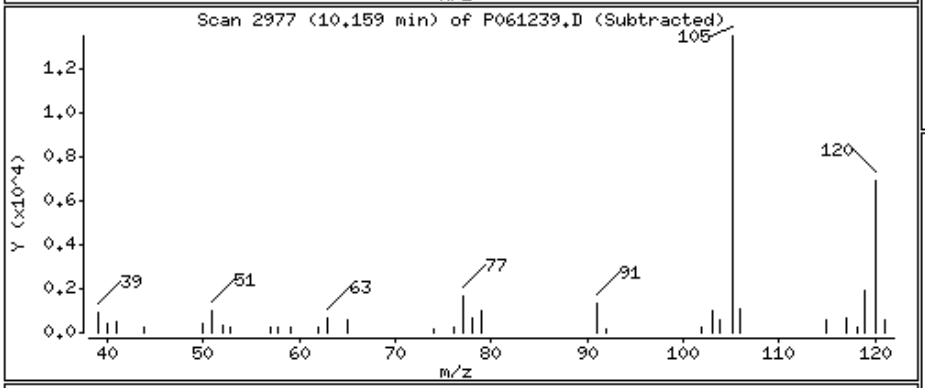
Purge Volume: 5.0 Operator: AP

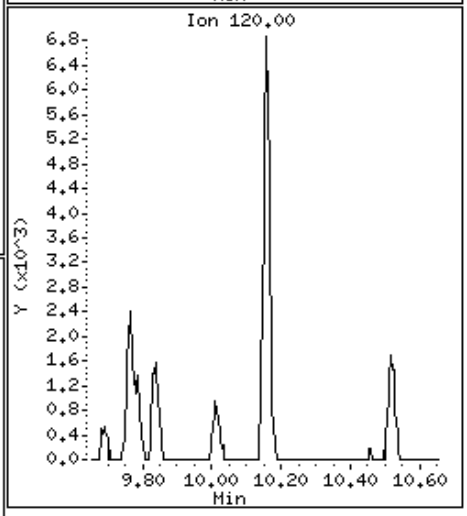
Column phase: DB624 Column diameter: 0.18

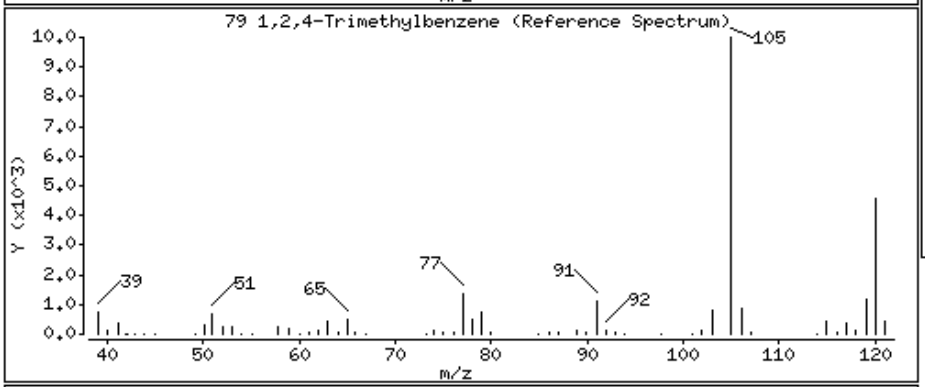
79 1,2,4-Trimethylbenzene Concentration: 690.22 ug/l

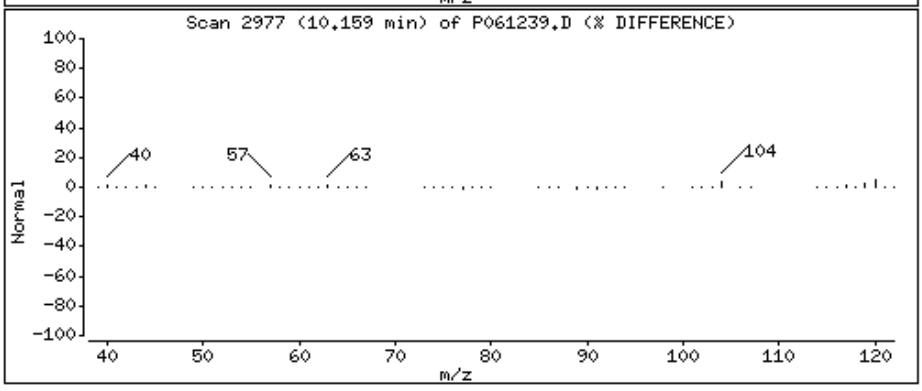












Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061239.D Page 9

Date : 13-JUN-2024 01:31

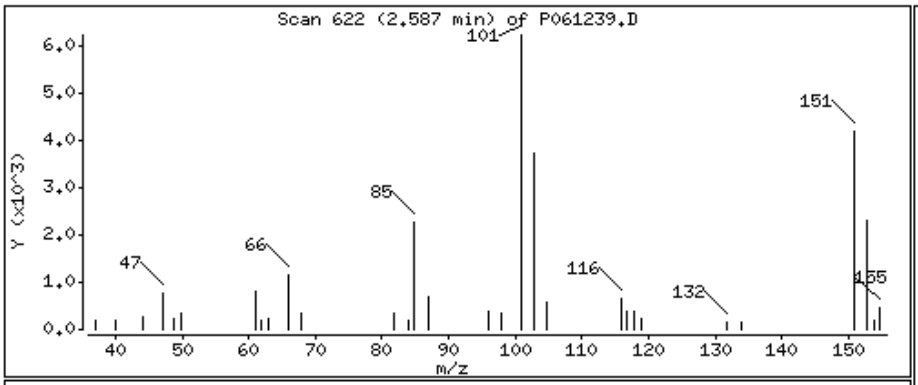
Client ID: Instrument: voa7.i

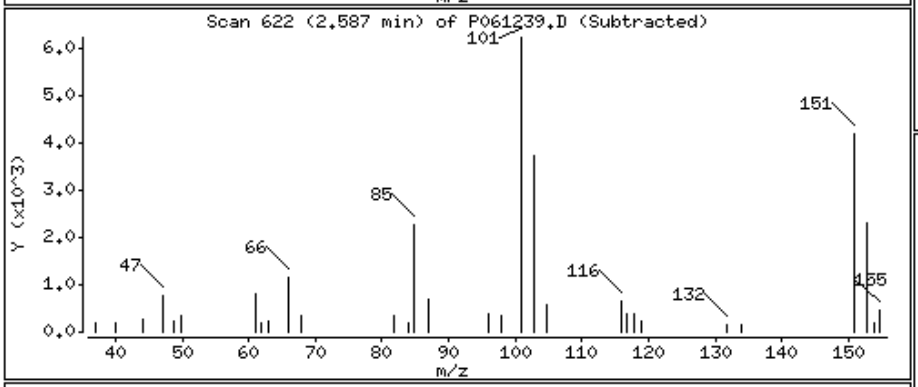
Sample Info: HS24060434-01

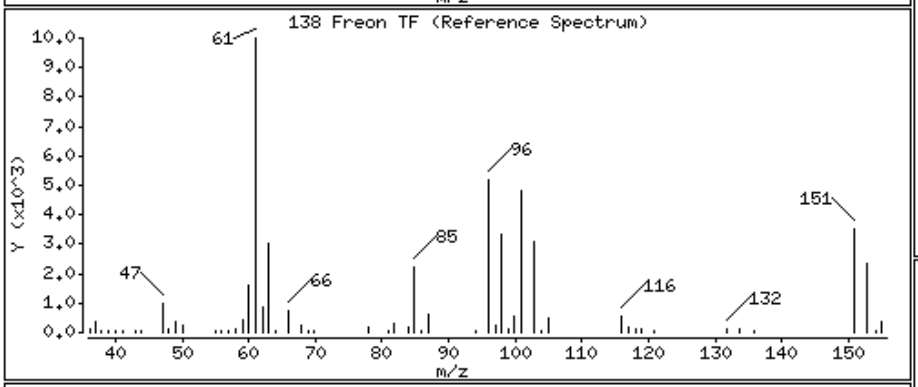
Purge Volume: 5.0 Operator: AP

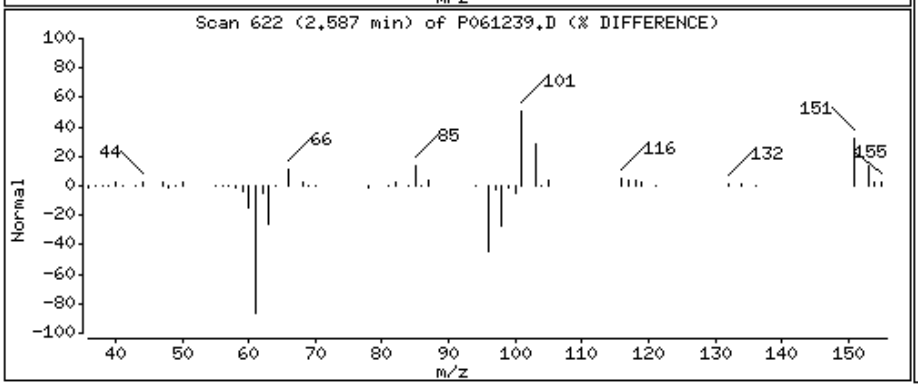
Column phase: DB624 Column diameter: 0.18

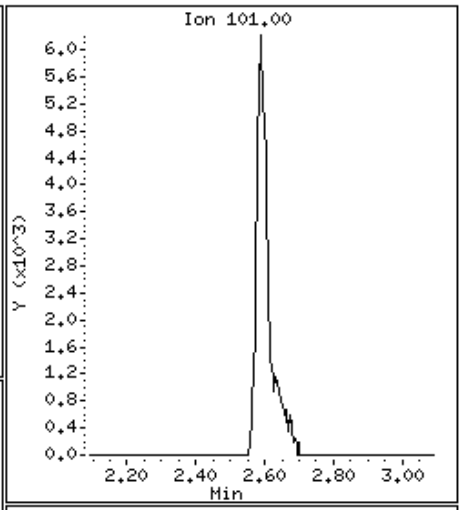
138 Freon TF Concentration: 3066.73 ug/l

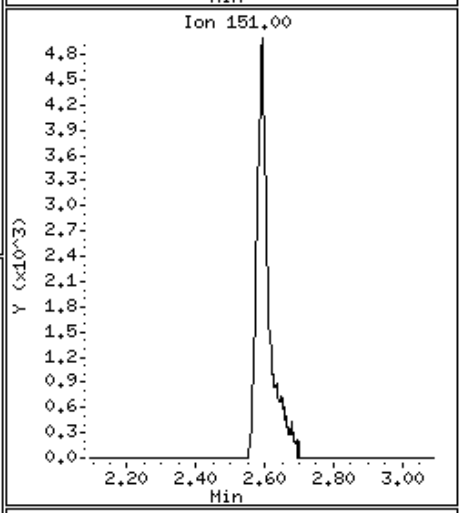


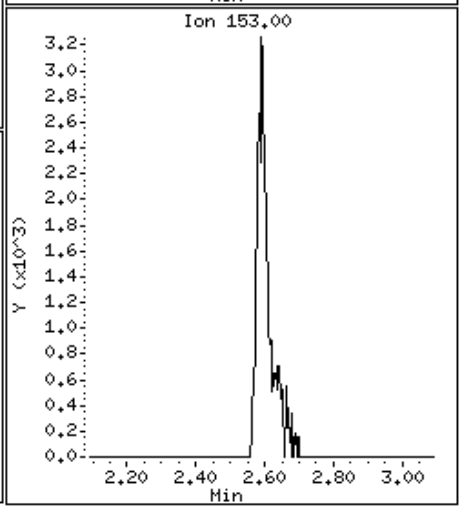










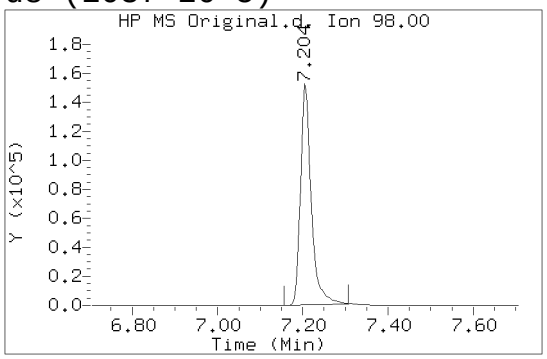


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061239.D
Inj Date : 13-JUN-2024 01:31
InstruID : voa7.i
LabSampID : HS24060434-01

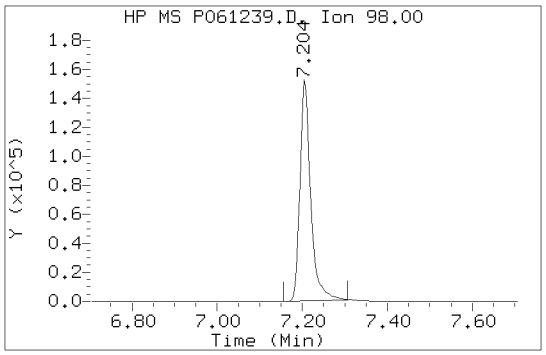
Toluene-d8 (2037-26-5)

Reason Code:

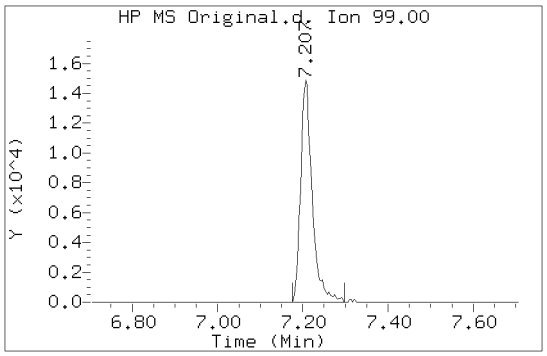
BEFORE
MASS
98
AREA
268167
HEIGHT
152552
15-Jul-2024
11:01
s
zaid



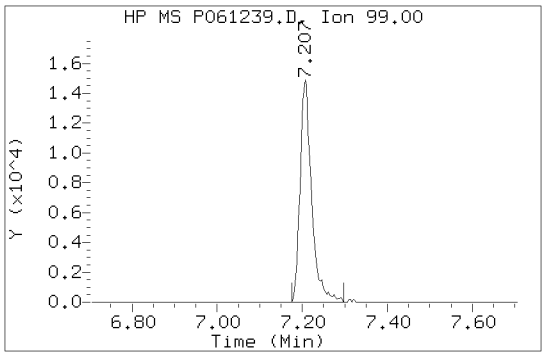
AFTER
MASS
98
AREA
268167
HEIGHT
152552
15-Jul-2024
11:01
s
zaid



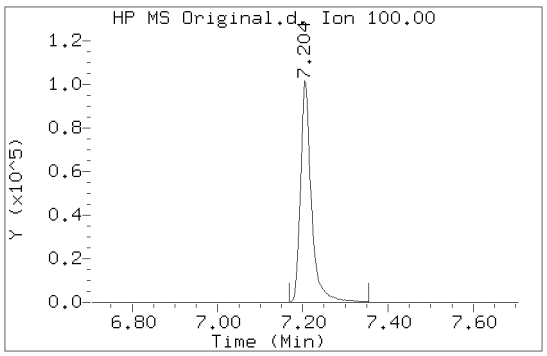
BEFORE
MASS
99
AREA
28340
HEIGHT
14895
15-Jul-2024
11:01
s
zaid



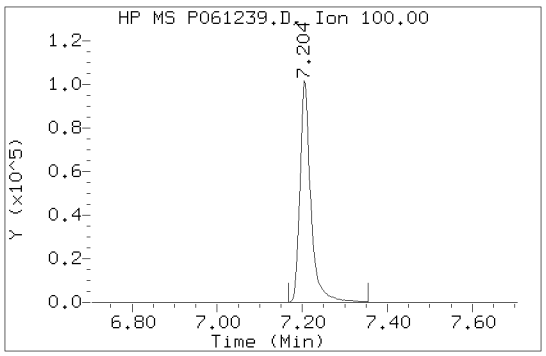
AFTER
MASS
99
AREA
28340
HEIGHT
14895
15-Jul-2024
11:01
s
zaid



BEFORE
MASS
100
AREA
181714
HEIGHT
101640
15-Jul-2024
11:01
s
zaid



AFTER
MASS
100
AREA
181714
HEIGHT
101640
15-Jul-2024
11:01
s
zaid



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061240.D Page 1
Report Date: 15-Jul-2024 11:22

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061240.D
Lab Smp Id: HS24060434-03
Inj Date : 13-JUN-2024 01:54
Operator : AP   Inst ID: voa7.i
Smp Info : HS24060434-03
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240612.b\8260W.m
Meth Date : 15-Jul-2024 11:22 s.zaid   Quant Type: ISTD
Cal Date : 12-JUN-2024 14:46   Cal File: P061211.D
Als bottle: 40
Dil Factor: 100.00000
Integrator: HP RTE   Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

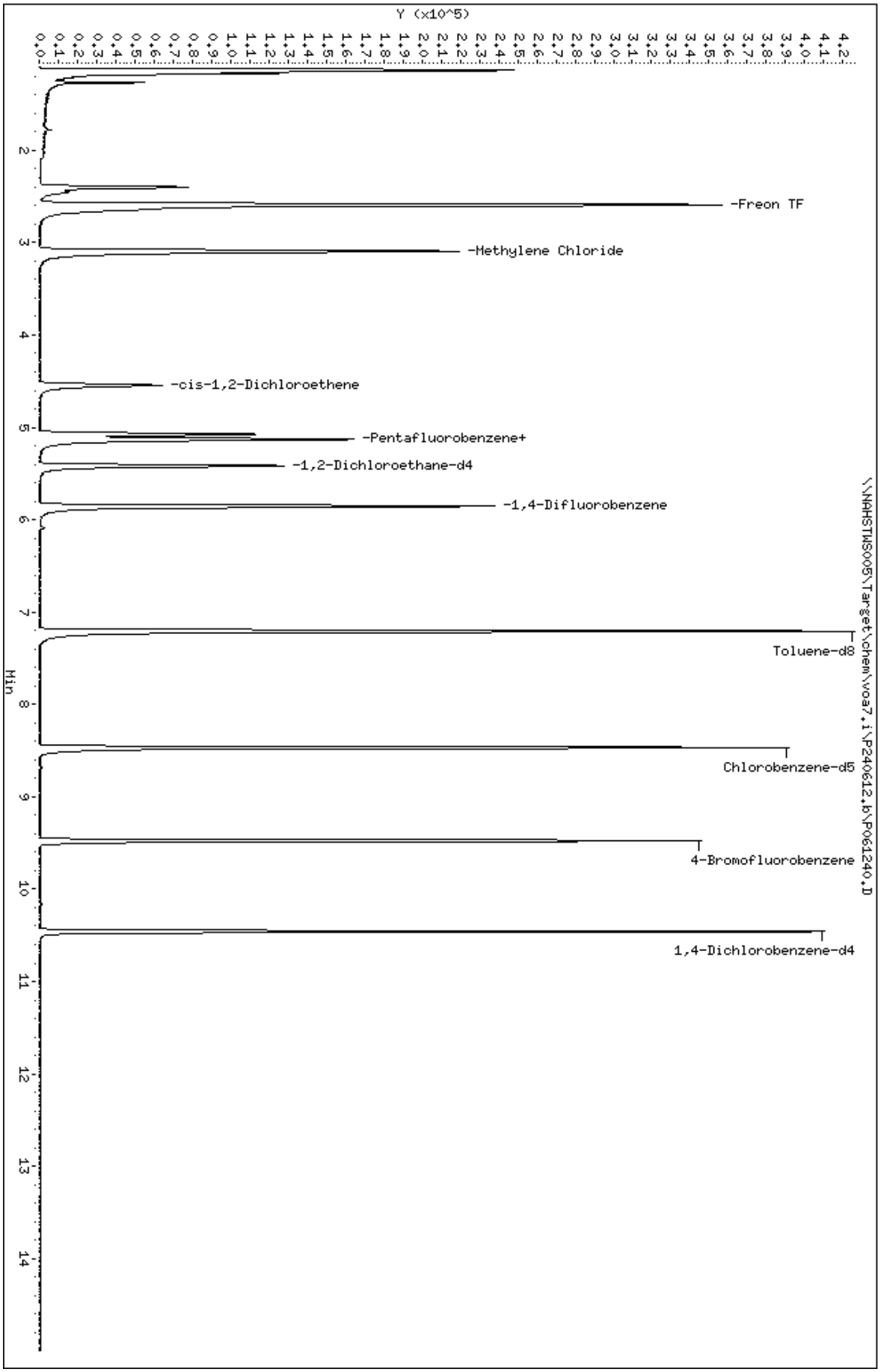
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	100.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	1 Pentafluorobenzene	168	5.129	5.130	(1.000)	123874	50.0000	
	17 Methylene Chloride	84	3.094	3.091	(0.603)	117384	83.0169	8301.69(H)
	27 cis-1,2-Dichloroethene	96	4.544	4.541	(0.886)	34219	23.2796	2327.96
$	30 Dibromofluoromethane	113	5.075	5.072	(0.989)	77736	58.7073	58.70(R)
$	35 1,2-Dichloroethane-d4	65	5.416	5.416	(1.056)	101810	58.5953	58.59
*	36 1,4-Difluorobenzene	114	5.853	5.853	(1.000)	207087	50.0000	
*	47 Chlorobenzene-d5	117	8.467	8.467	(1.000)	202398	50.0000	
$	48 Toluene-d8	98	7.207	7.207	(0.851)	281064	55.7791	55.77(M)
$	69 4-Bromofluorobenzene	95	9.473	9.477	(1.119)	107131	54.0258	54.02
*	70 1,4-Dichlorobenzene-d4	152	10.457	10.461	(1.000)	98540	50.0000	
	138 Freon TF	101	2.589	2.593	(0.505)	195799	152.839	15283.86
M	94 1,2-Dichloroethylene (total)	96				34219	23.2796	2327.96

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061240.D
Date : 13-JUN-2024 01:54
Client ID:
Sample Info: HS24060434-03
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7.i
Operator: AP
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061240.D Page 2

Date : 13-JUN-2024 01:54

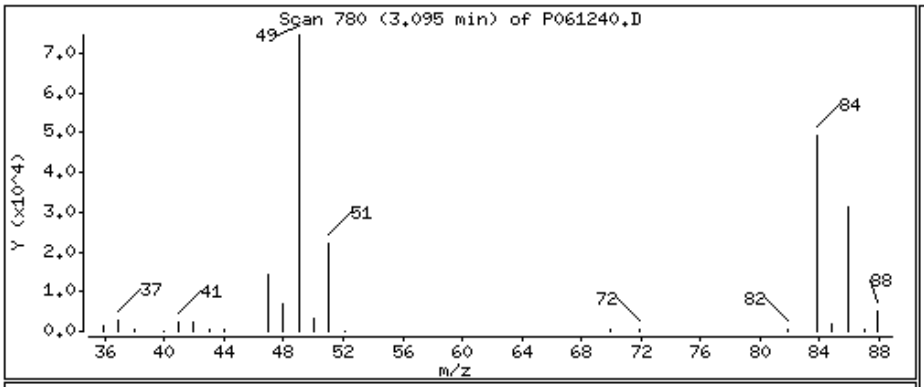
Client ID: Instrument: voa7.i

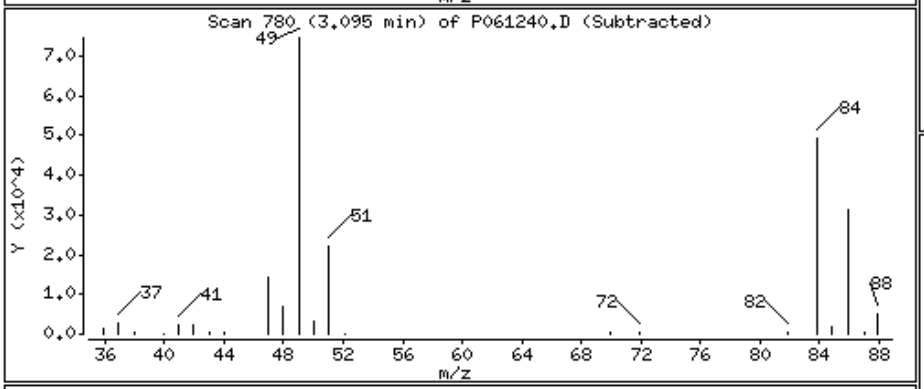
Sample Info: HS24060434-03

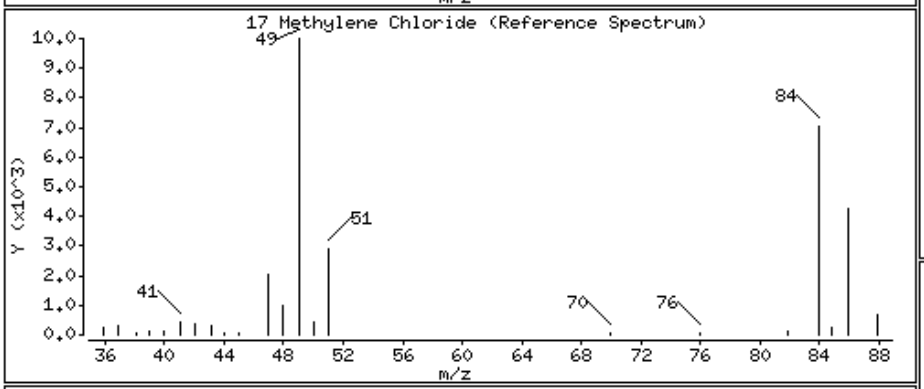
Purge Volume: 5.0 Operator: AP

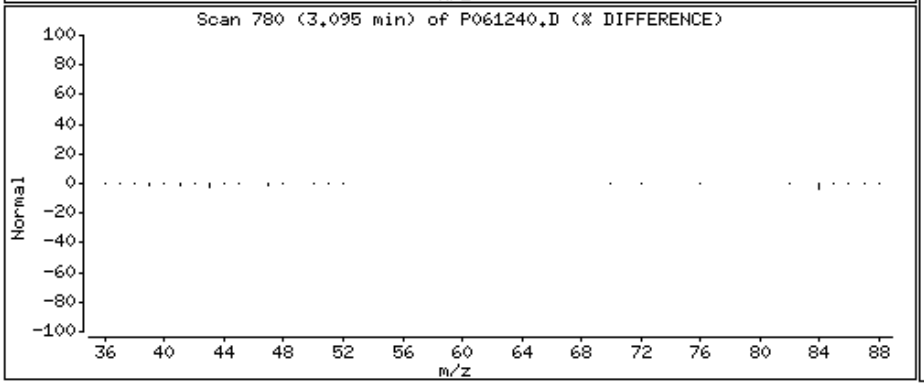
Column phase: DB624 Column diameter: 0.18

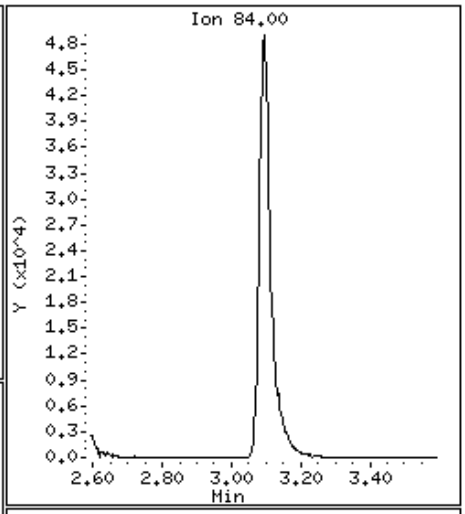
17 Methylene Chloride Concentration: 8301.69 ug/l

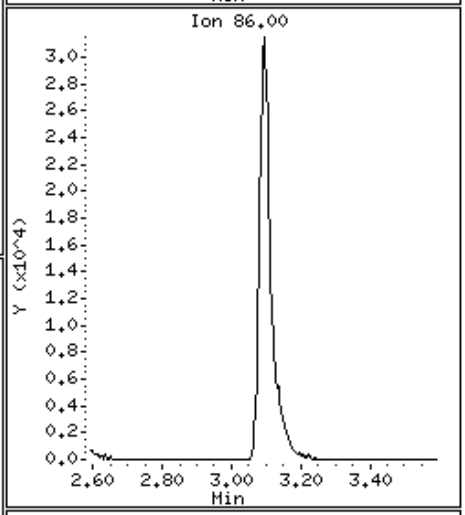


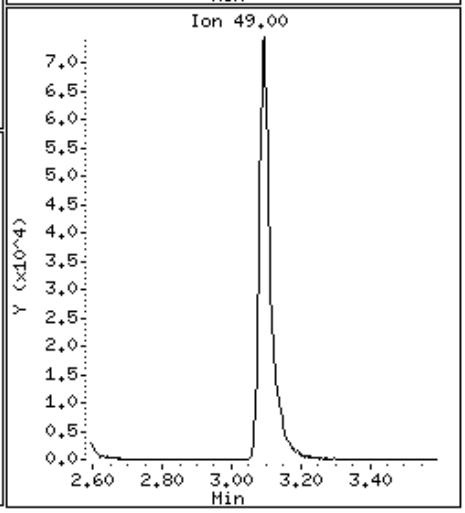












Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061240.D Page 3

Date : 13-JUN-2024 01:54

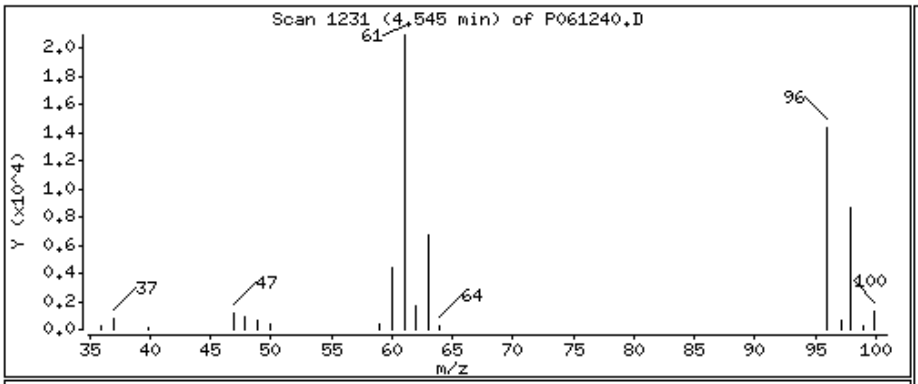
Client ID: Instrument: voa7.i

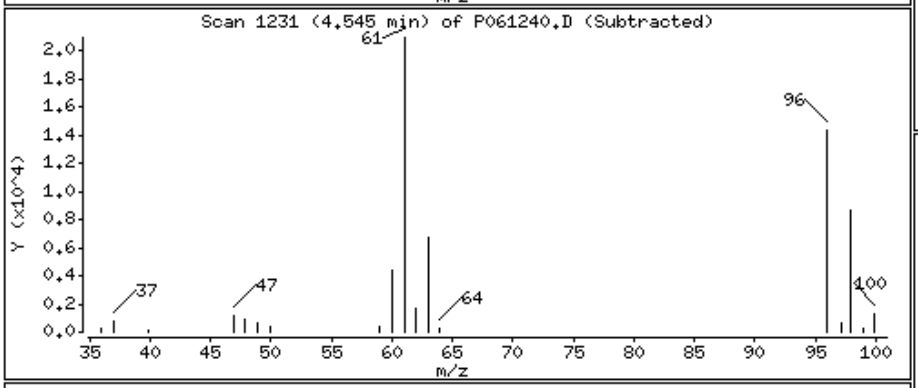
Sample Info: HS24060434-03

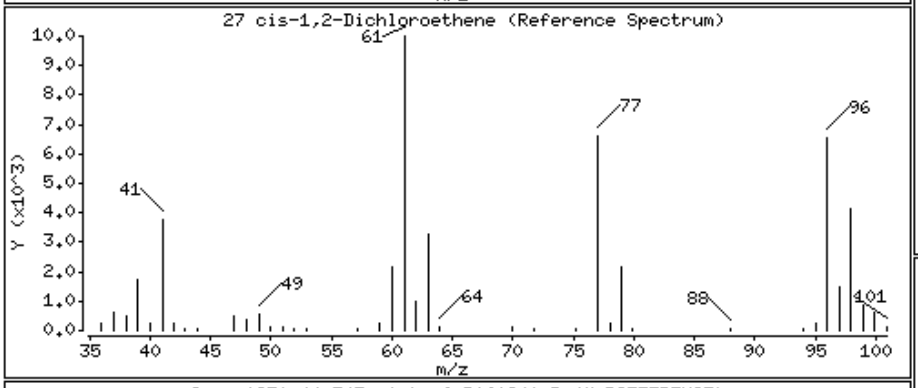
Purge Volume: 5.0 Operator: AP

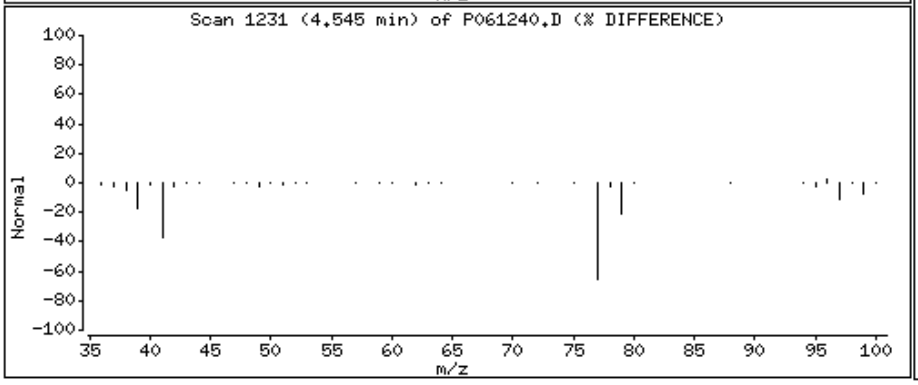
Column phase: DB624 Column diameter: 0.18

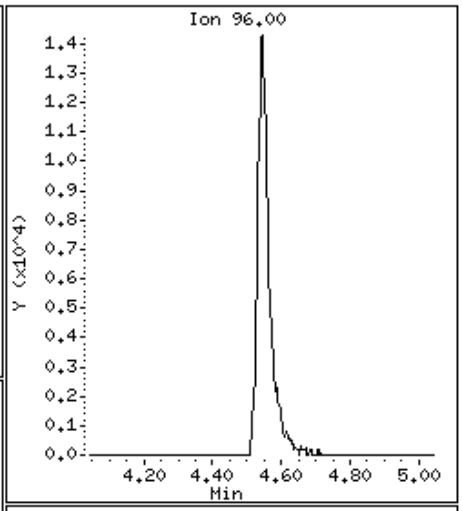
27 cis-1,2-Dichloroethene Concentration: 2327.96 ug/l

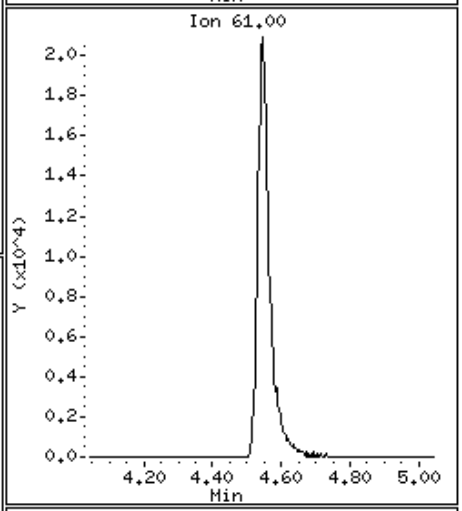


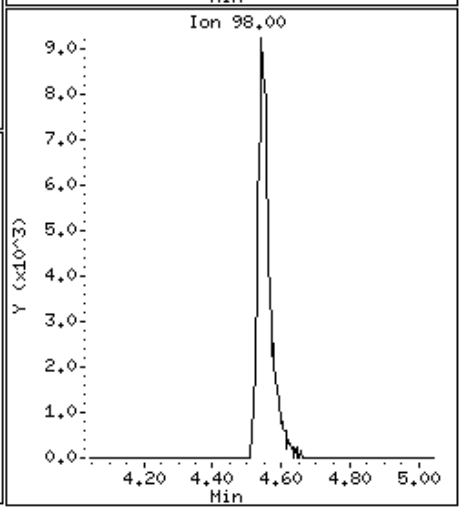












Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061240.D Page 4

Date : 13-JUN-2024 01:54

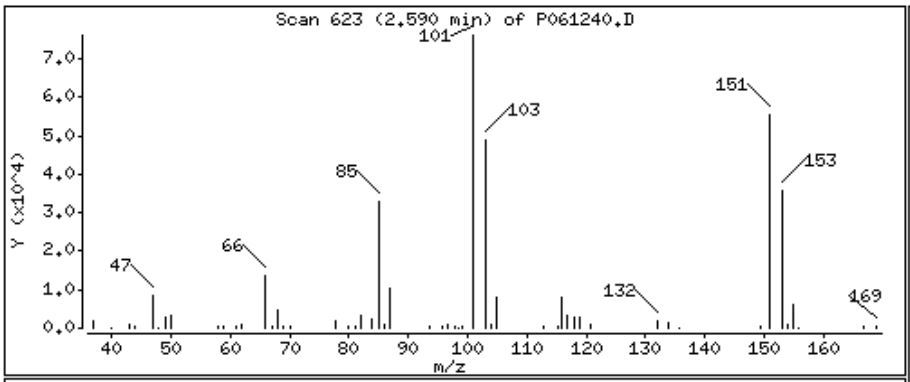
Client ID: Instrument: voa7.i

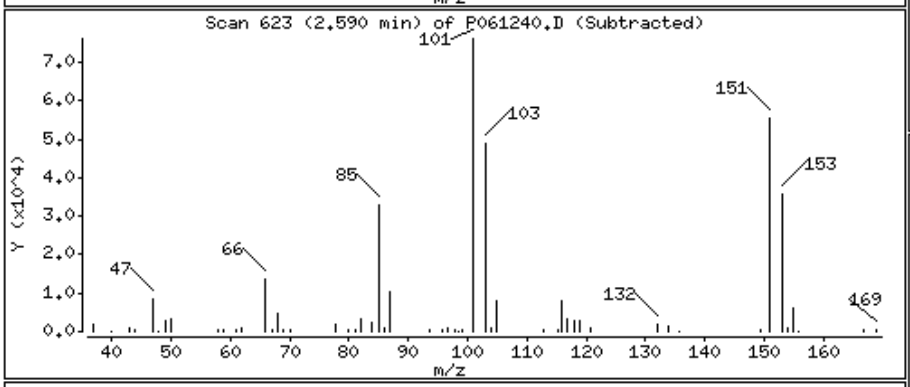
Sample Info: HS24060434-03

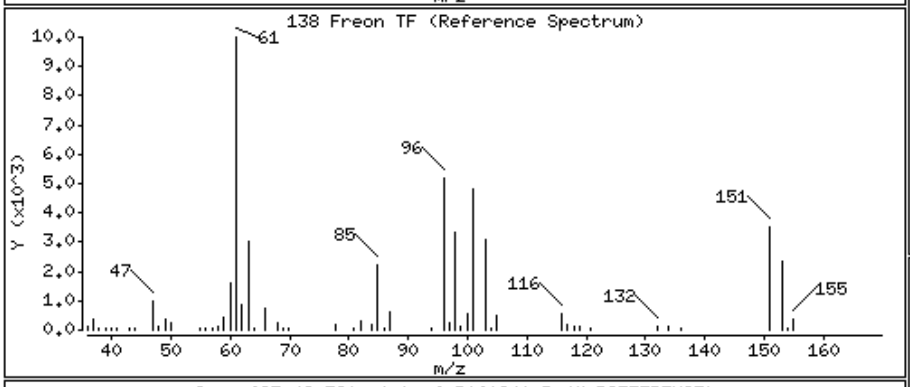
Purge Volume: 5.0 Operator: AP

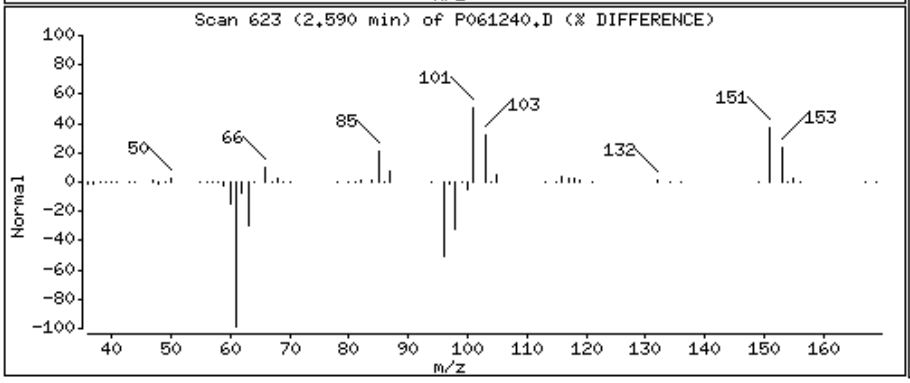
Column phase: DB624 Column diameter: 0.18

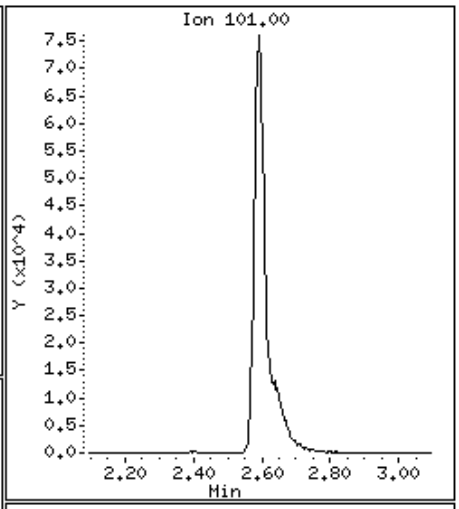
138 Freon TF Concentration: 15283.86 ug/l

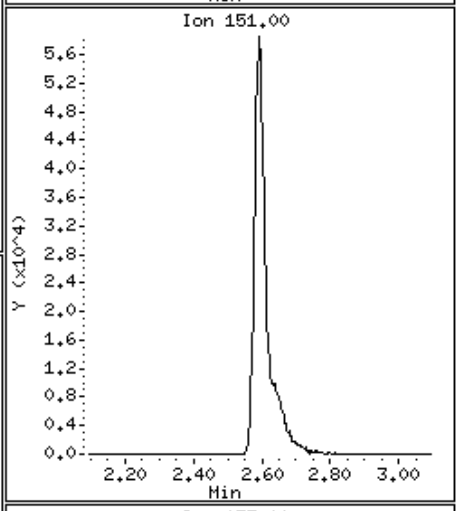


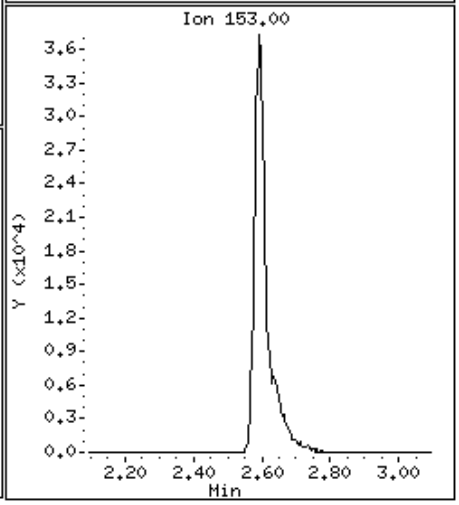










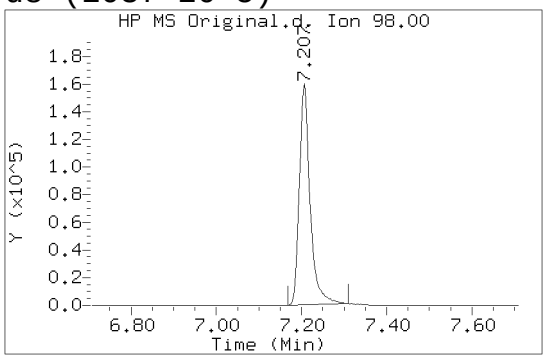


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061240.D
Inj Date : 13-JUN-2024 01:54
InstruID : voa7.i
LabSampID : HS24060434-03

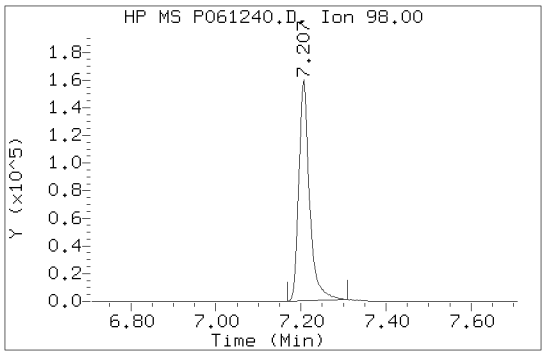
Toluene-d8 (2037-26-5)

Reason Code:

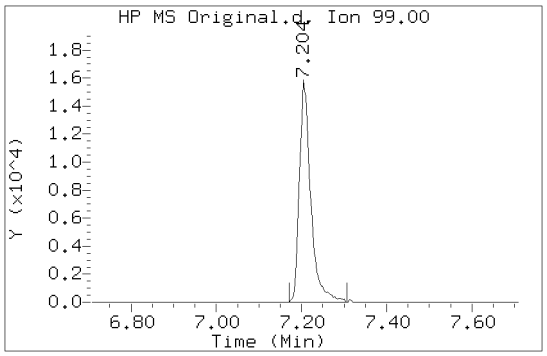
BEFORE
MASS
98
AREA
281064
HEIGHT
159820
15-Jul-2024
11:22
s
zaid



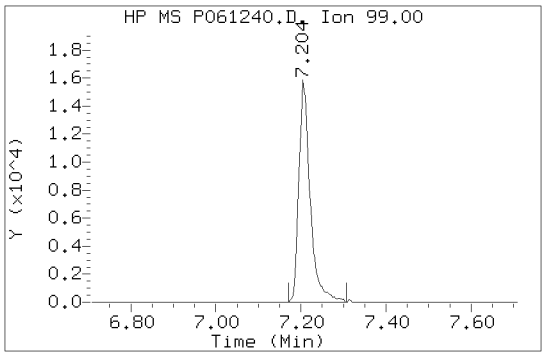
AFTER
MASS
98
AREA
281064
HEIGHT
159820
15-Jul-2024
11:22
s
zaid



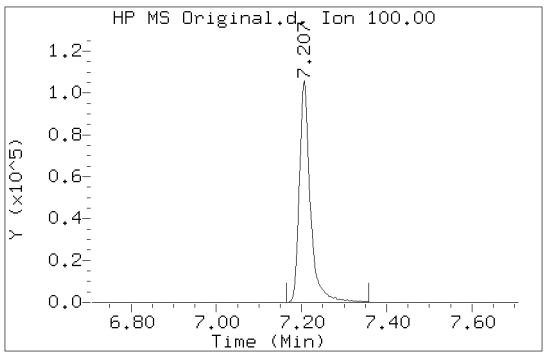
BEFORE
MASS
99
AREA
29571
HEIGHT
15867
15-Jul-2024
11:22
s
zaid



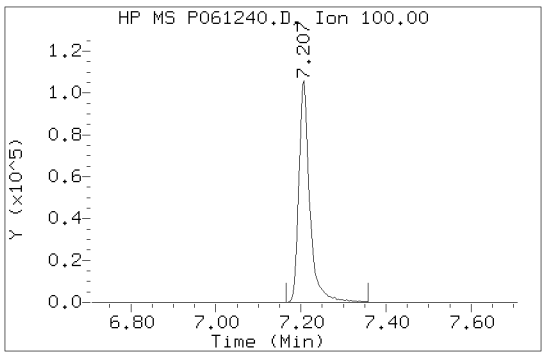
AFTER
MASS
99
AREA
29571
HEIGHT
15867
15-Jul-2024
11:22
s
zaid



BEFORE
MASS
100
AREA
189866
HEIGHT
105912
15-Jul-2024
11:22
s
zaid



AFTER
MASS
100
AREA
189866
HEIGHT
105912
15-Jul-2024
11:22
s
zaid



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061242.D Page 1
Report Date: 22-Jun-2024 12:22

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061242.D
Lab Smp Id: VSTD050
Inj Date : 13-JUN-2024 02:40
Operator : AP   Inst ID: voa7.i
Smp Info : VSTD050
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240612.b\8260W.m
Meth Date : 22-Jun-2024 12:22 voa7.i   Quant Type: ISTD
Cal Date : 12-JUN-2024 14:46   Cal File: P061211.D
Als bottle: 42   Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	5.130	5.130	(1.000)	129127	50.0000	
2 Dichlorodifluoromethane	85	1.294	1.294	(0.252)	72266	50.0000	54.39
159 Dichlorofluoromethane	67	2.075	2.075	(0.405)	121528	50.0000	45.56
3 Chloromethane	50	1.448	1.448	(0.282)	108885	50.0000	54.06
4 Propionitrile	54	4.670	4.670	(0.910)	73006	500.000	425.90
5 Vinyl Chloride	62	1.535	1.535	(0.299)	92866	50.0000	52.31
6 Bromomethane	94	1.805	1.805	(0.352)	58743	50.0000	51.81
7 Chloroethane	64	1.895	1.895	(0.369)	56614	50.0000	52.70
8 Trichlorofluoromethane	101	2.110	2.110	(0.411)	122057	50.0000	51.88
9 Acrolein	56	2.516	2.516	(0.490)	4345	100.000	84.80
10 Acetone	43	2.667	2.667	(0.520)	37532	100.000	84.93
11 1,1-Dichloroethene	96	2.586	2.586	(0.504)	66532	50.0000	53.45
12 Isobutyl Alcohol	43	5.570	5.570	(1.086)	183072	1000.00	895.72
13 Acetonitrile	39	2.959	2.959	(0.577)	88292	500.000	484.96
14 Allyl Chloride	41	2.959	2.959	(0.577)	184462	50.0000	47.51
15 Iodomethane	142	2.741	2.741	(0.534)	101760	100.000	104.13
16 Acrylonitrile	53	3.374	3.374	(0.658)	39365	100.000	90.61
17 Methylene Chloride	84	3.091	3.091	(0.603)	76513	50.0000	51.43
18 Methyl tert-butyl ether	73	3.377	3.377	(0.658)	151642	50.0000	44.56
19 Carbon Disulfide	76	2.792	2.792	(0.544)	410742	100.000	100.88

20 trans-1,2-Dichloroethene	96	3.374	3.374 (0.658)	67554	50.0000	48.90
21 Vinyl Acetate	43	4.654	4.654 (0.907)	65146	100.000	91.59

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061242.D Page 2
Report Date: 22-Jun-2024 12:22

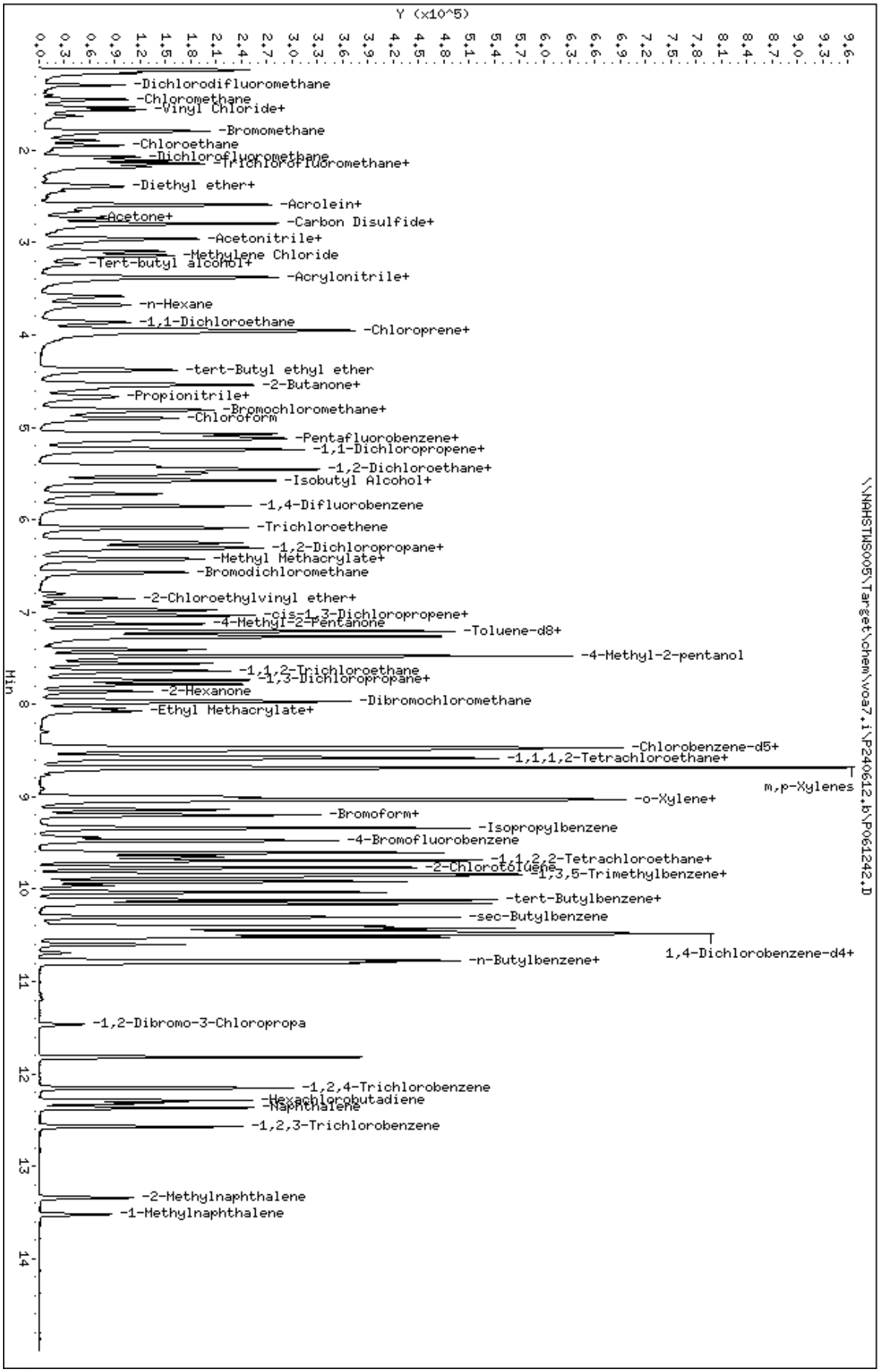
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
22	1,1-Dichloroethane	63	3.863	3.863	(0.753)	145385	50.0000	52.12
23	Chloroprene	53	3.962	3.962	(0.772)	118591	50.0000	48.95
24	2-Butanone	43	4.586	4.586	(0.894)	50949	100.000	86.27
25	Methacrylonitrile	41	2.146	2.146	(0.418)	100490	50.0000	47.73(T)
26	2,2-Dichloropropane	77	4.532	4.532	(0.883)	111479	50.0000	46.03
27	cis-1,2-Dichloroethene	96	4.541	4.541	(0.885)	77056	50.0000	50.26
28	Chloroform	83	4.905	4.905	(0.956)	139511	50.0000	50.91
29	Bromochloromethane	128	4.808	4.808	(0.937)	38207	50.0000	52.15
$ 30	Dibromofluoromethane	113	5.072	5.072	(0.989)	79975	50.0000	57.93
31	1,1,1-Trichloroethane	97	5.072	5.072	(0.989)	120317	50.0000	49.64
32	1,1-Dichloropropene	75	5.245	5.245	(0.896)	105012	50.0000	48.99
33	1,2-Dichloroethane	62	5.490	5.490	(0.938)	115320	50.0000	48.94
34	Carbon Tetrachloride	117	5.232	5.232	(0.894)	104400	50.0000	47.74
$ 35	1,2-Dichloroethane-d4	65	5.416	5.416	(1.056)	102867	50.0000	56.77
* 36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	215903	50.0000	
37	Benzene	78	5.458	5.458	(0.932)	285841	50.0000	50.04
38	Trichloroethene	130	6.088	6.088	(1.040)	74916	50.0000	49.88
39	Bromodichloromethane	83	6.570	6.570	(1.122)	104528	50.0000	47.93
40	Methyl Methacrylate	41	6.432	6.432	(1.254)	62529	50.0000	46.83
41	2-Chloroethylvinyl ether	63	6.853	6.853	(1.171)	46222	100.000	80.66
42	1,2-Dichloropropane	63	6.310	6.310	(1.078)	82906	50.0000	50.01
43	2-Nitropropane	43	6.802	6.802	(1.326)	18520	50.0000	41.22
44	Dibromomethane	93	6.416	6.416	(1.096)	44976	50.0000	47.90
45	4-Methyl-2-Pentanone	43	7.126	7.126	(0.842)	130024	100.000	88.34
46	cis-1,3-Dichloropropene	75	6.978	6.978	(1.192)	112706	50.0000	46.47
* 47	Chlorobenzene-d5	117	8.467	8.467	(1.000)	201770	50.0000	
$ 48	Toluene-d8	98	7.207	7.207	(0.851)	289666	50.0000	57.70
49	Ethyl Methacrylate	69	8.039	8.039	(1.374)	44133	50.0000	31.78
50	Toluene	91	7.265	7.265	(0.858)	296424	50.0000	50.12
51	trans-1,3-Dichloropropene	75	6.978	6.978	(1.192)	112706	50.0000	46.47
52	2-Hexanone	43	7.859	7.859	(0.928)	85626	100.000	83.46
53	1,1,2-Trichloroethane	83	7.638	7.638	(0.902)	55311	50.0000	48.56
54	1,3-Dichloropropane	76	7.782	7.782	(0.919)	114786	50.0000	48.36
55	Dibromochloromethane	129	7.975	7.975	(0.942)	76288	50.0000	47.75
56	Tetrachloroethene	164	7.737	7.737	(0.914)	55536	50.0000	48.11
57	1,2-Dibromoethane	107	8.072	8.072	(0.953)	52805	50.0000	48.24
58	1-Chlorohexane	55	8.467	8.467	(1.447)	69292	50.0000	48.32
59	Chlorobenzene	112	8.490	8.490	(1.003)	192425	50.0000	49.70
60	1,1,1,2-Tetrachloroethane	131	8.564	8.564	(1.011)	67775	50.0000	46.77
61	Ethylbenzene	106	8.583	8.583	(1.014)	97611	50.0000	48.63
62	m,p-Xylenes	106	8.686	8.686	(1.026)	249077	100.000	98.42
63	o-Xylene	106	9.023	9.023	(1.066)	120808	50.0000	49.68
64	Styrene	104	9.039	9.039	(1.068)	203259	50.0000	49.50
66	Bromoform	173	9.207	9.207	(1.087)	46145	50.0000	45.58
67	Isopropylbenzene	105	9.338	9.338	(1.103)	301379	50.0000	48.81
68	1,1,2,2-Tetrachloroethane	83	9.609	9.609	(0.919)	80901	50.0000	45.56
$ 69	4-Bromofluorobenzene	95	9.477	9.477	(1.119)	105937	50.0000	53.57
* 70	1,4-Dichlorobenzene-d4	152	10.461	10.461	(1.000)	104482	50.0000	
71	1,2,3-Trichloropropane	75	9.647	9.647	(0.922)	88100	50.0000	45.70
72	trans-1,4-Dichloro-2-butene	53	9.657	9.657	(1.140)	17990	50.0000	43.72
73	n-Propylbenzene	91	9.689	9.689	(0.926)	360675	50.0000	47.76
74	Bromobenzene	156	9.605	9.605	(0.918)	82331	50.0000	49.09

75	1,3,5-Trimethylbenzene	105	9.837	9.837 (0.940)	251736	50.0000	47.20
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	226197	50.0000	48.57

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
77	4-Chlorotoluene	91	9.859	9.859	(0.943)	264046	50.0000	48.39
78	tert-Butylbenzene	119	10.117	10.117	(0.967)	216300	50.0000	48.45
79	1,2,4-Trimethylbenzene	105	10.155	10.155	(0.971)	259971	50.0000	48.56
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	300172	50.0000	48.40
82	p-Isopropyltoluene	119	10.425	10.425	(0.997)	257584	50.0000	43.27
83	1,3-Dichlorobenzene	146	10.403	10.403	(0.994)	146107	50.0000	48.23
84	1,4-Dichlorobenzene	146	10.480	10.480	(1.002)	150167	50.0000	47.92
87	n-Butylbenzene	91	10.772	10.772	(1.030)	234821	50.0000	43.53
88	1,2-Dichlorobenzene	146	10.798	10.798	(1.032)	141820	50.0000	48.18
89	1,2-Dibromo-3-Chloropropane	75	11.464	11.464	(1.096)	12147	50.0000	39.24
90	1,2,4-Trichlorobenzene	180	12.155	12.155	(1.162)	81454	50.0000	44.00
91	Hexachlorobutadiene	225	12.290	12.290	(1.175)	40420	50.0000	47.57
92	Naphthalene	128	12.367	12.367	(1.182)	170281	50.0000	41.67
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	60319	50.0000	40.97(T)
146	Methyl acetate	43	2.991	2.991	(0.583)	47143	50.0000	46.10
138	Freon TF	101	2.593	2.593	(0.505)	67568	50.0000	51.00
139	Diethyl ether	59	2.380	2.380	(0.464)	41414	50.0000	47.36
140	1,3-Butadiene	54	1.564	1.564	(0.305)	40104	50.0000	50.38
141	Cyclohexane	56	5.110	5.110	(0.996)	106781	50.0000	50.23
147	Methylcyclohexane	83	6.249	6.249	(1.068)	95485	50.0000	45.42
132	n-Butanol	56	6.252	6.252	(1.219)	39459	1000.00	912.80(T)
131	Methyl Acrylate	55	4.689	4.689	(0.914)	61559	50.0000	45.46
133	Ethyl Acrylate	55	6.220	6.220	(1.212)	71279	50.0000	19.49
136	n-Hexane	57	3.673	3.673	(0.716)	70169	50.0000	47.25
142	Tetrahydrofuran	42	4.856	4.856	(0.947)	19689	100.000	86.04
148	Tert-butyl alcohol	59	3.236	3.236	(0.631)	65600	1000.00	758.74
149	Isopropyl alcohol	45	2.815	2.815	(0.549)	53243	1000.00	648.15
151	4-Methyl-2-pentanol	45	7.477	7.477	(0.883)	297417	1000.00	734.58
166	1,2,3-Trimethylbenzene	105	10.518	10.518	(1.006)	231658	50.0000	48.87
167	Ethanol	45	2.313	2.313	(0.451)	9132	1000.00	666.87
172	tert-Butyl formate	59	3.236	3.236	(0.631)	65600	100.000	75.83
173	3,3-Dimethyl-1-butanol	57	8.046	8.046	(0.950)	60853	1000.00	634.18
174	tert-Amyl methyl ether	73	5.577	5.577	(1.087)	166723	50.0000	48.00
175	tert-Butyl ethyl ether	59	4.377	4.377	(0.853)	181539	50.0000	48.13
157	2-Methylnaphthalene	142	13.345	13.345	(1.276)	49664	50.0000	33.41
156	Diisopropyl ether	45	3.946	3.946	(0.769)	227646	50.0000	49.21
171	1-Methylnaphthalene	142	13.522	13.522	(1.293)	41460	50.0000	34.13
130	Ethyl Acetate	43	3.946	3.946	(0.769)	378919	50.0000	43.69
176	tert-Amyl alcohol	59	5.512	5.512	(1.075)	63525	1000.00	727.59(A)
160	Epichlorohydrin	57	6.914	6.914	(1.181)	13922	200.000	172.69
161	Butyl acrylate	55	8.998	8.998	(1.063)	143462	50.0000	43.34(T)
183	Isopropyl Acetate	43	5.570	5.570	(0.952)	183072	50.0000	44.10(A)
184	n-Amyl acetate	43	9.194	9.194	(1.086)	132354	50.0000	41.89(A)
185	Acetaldehyde	44	1.628	1.628	(0.317)	65037	200.000	202.30(A)

QC Flag Legend

T - Target compound detected outside RT window.
A - Target compound detected but, quantitated amount exceeded maximum amount.


Data File: \\NAHSTWS005\Target\chem\voa7,i\P240612,b\P061242,D
Date : 13-JUN-2024 02:40
Client ID:
Sample Info: WSTD050
Purge Volume: 5.0
Column phase: DB624
Instrument: voa7,i
Operator: AP
Column diameter: 0.18
Page 1
Y (x10^5)
Min
\\NAHSTWS005\Target\chem\voa7,i\P240612,b\P061242,D
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride+
-Bromomethane
-Chloroethane
-Dichlorofluoromethane
-Trichlorofluoromethane+
-Diethyl ether+
-Acrolein+
-Acetone+
-Carbon Disulfide+
-Acetonitrile+
-Methylene Chloride
-Tert-butyl alcohol+
-Acrylonitrile+
-n-Hexane
-1,1-Dichloroethane
-Chloroprene+
-tert-Butyl ethyl ether
-2-Butanone+
-Propionitrile+
-Bromochloromethane+
-Chloroform
-Pentafluorobenzene+
-1,1-Dichloropropene+
-1,2-Dichloroethane+
-Isobutyl Alcohol+
-1,4-Difluorobenzene
-Trichloroethene
-1,2-Dichloropropane+
-Methyl Methacrylate+
-Bromodichloromethane
-2-Chloroethylvinyl ether+
-cis-1,3-Dichloropropene+
-4-Methyl-2-Pentanone
-Toluene-d8+
-4-Methyl-2-pentanol
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
-2-Hexanone
-Dibromochloromethane
-Ethyl Methacrylate+
-Chlorobenzene-d5+
-1,1,1,2-Tetrachloroethane+
m,p-Xylenes
-o-Xylene+
-Bromoform+
-Isopropylbenzene
-4-Bromofluorobenzene
-1,1,2,2-Tetrachloroethane+
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-tert-Butylbenzene+
-sec-Butylbenzene
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene
-2-Methylnaphthalene
-1-Methylnaphthalene

Data File : \\NAHSTWS005\Target\chem\voa7.i\P240612.b\P061242.D
Inj Date : 13-JUN-2024 02:40
InstruID : voa7.i
LabSampID : VSTD050

NO MANUAL INTEGRATIONS

right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24060434

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 18/24

07/15/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Data File: \\nahstws005\Target\chem\voa7.i\P240615.b\X061501.D Page 1
Report Date: 17-Jun-2024 09:02

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa7.i\P240615.b\X061501.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 15-JUN-2024 13:38
Operator : AP Inst ID: voa7.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : HS220328V7;WATER;0;1;
Comment :
Method : \\nahstws005\Target\chem\voa7.i\P240615.b\bfb.m
Meth Date : 25-Mar-2024 14:28 apoluri Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7066

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/l)		
RT	EXP RT	REL RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
9.477	9.474	(0.000)	95	76904			0.00- 100.00	100.00
9.477	9.474	(0.000)	50	16296			15.00- 40.00	21.19
9.477	9.474	(0.000)	75	39440			30.00- 60.00	51.28
9.477	9.474	(0.000)	96	5265			5.00- 9.00	6.85
9.477	9.474	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.477	9.474	(0.000)	174	57840			50.00- 0.00	75.21
9.477	9.474	(0.000)	175	5116			5.00- 9.00	8.85
9.477	9.474	(0.000)	176	56520			95.00- 101.00	97.72
9.477	9.474	(0.000)	177	3307			5.00- 9.00	5.85

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	21.19
75	30.00 - 60.00% of mass 95	51.28
96	5.00 - 9.00% of mass 95	6.85
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	75.21
175	5.00 - 9.00% of mass 174	6.65 (8.85)
176	95.00 - 101.00% of mass 174	73.49 (97.72)
177	5.00 - 9.00% of mass 176	4.30 (5.85)

Data File: X061501.D
Spectrum: Scan 2764 (9.47)
Location of Maximum: 95.00
Number of points: 64

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	822	61.00	3589	81.90	382	128.00	262
37.00	3807	62.00	3616	86.20	181	129.20	152
38.00	3819	63.00	2606	87.00	3190	129.90	231
39.00	1207	64.00	279	87.90	2939	140.90	925
40.00	184	68.00	8099	90.90	318	142.90	685
44.00	576	69.00	8538	91.90	1888	154.80	210
45.10	673	70.00	597	93.00	3403	171.00	234
47.10	924	72.00	559	94.00	8681	171.70	153
48.00	376	73.00	2954	95.00	76904	173.90	57840
49.00	3279	74.00	13384	96.00	5265	175.00	5116
50.00	16296	75.00	39440	97.00	230	175.90	56520
51.00	5127	76.00	3056	103.80	277	176.90	3307
52.00	230	77.00	329	105.90	216	177.80	154
54.90	173	77.80	382	115.80	231		
56.00	1278	79.00	1997	116.90	398		
57.00	2436	79.90	538	117.80	265		
60.00	647	80.90	1671	118.80	346		

Data File: \\nahstws005\Target\chem\voa7.i\P240615.b\X061501.D Page 1

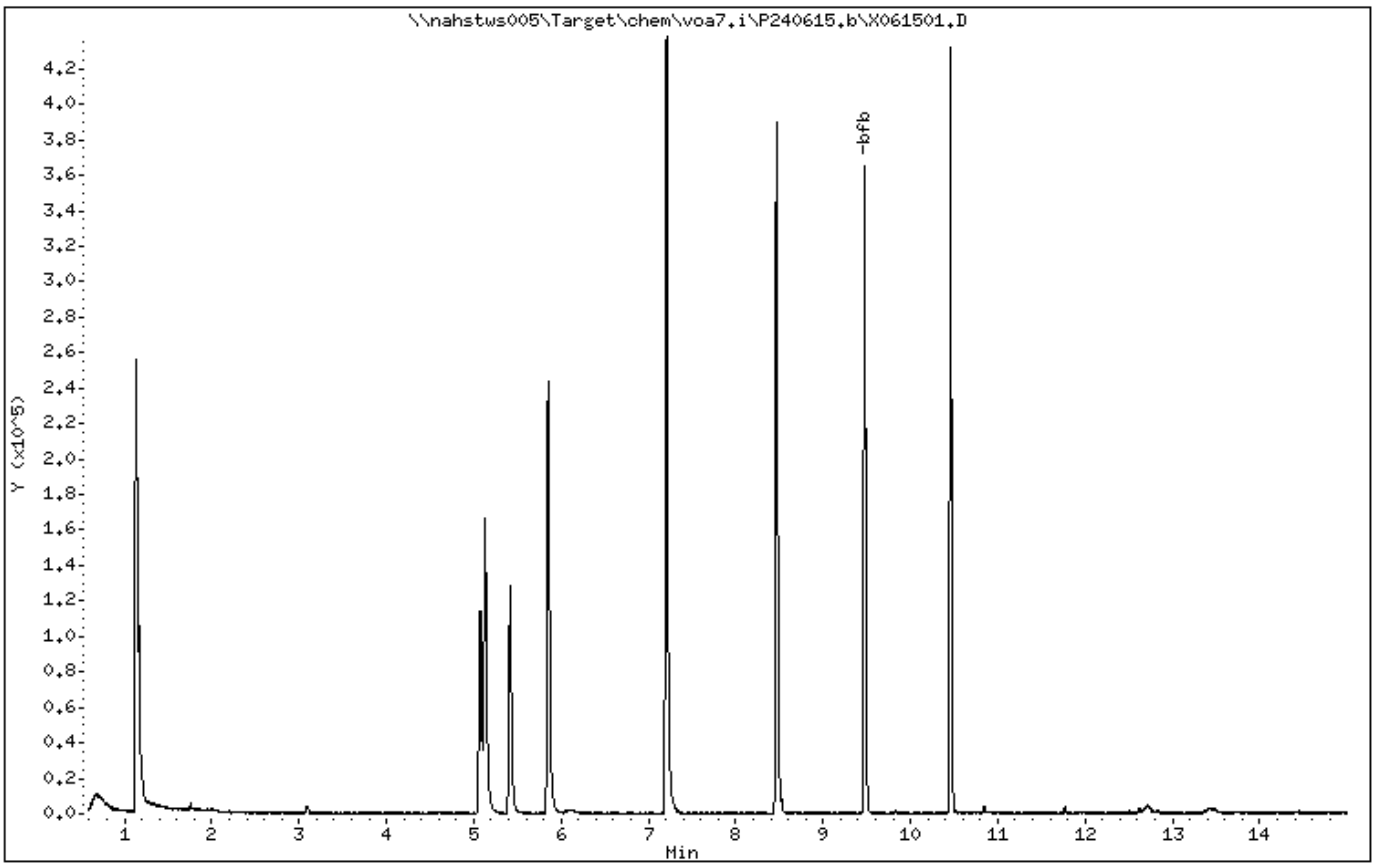
Date : 15-JUN-2024 13:38

Client ID: BFB Instrument: voa7.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: AP

Column phase: DB624 Column diameter: 0.25



Data File: \\nahstws005\Target\chem\voa7.i\P240615.b\X061501.D Page 2

Date : 15-JUN-2024 13:38

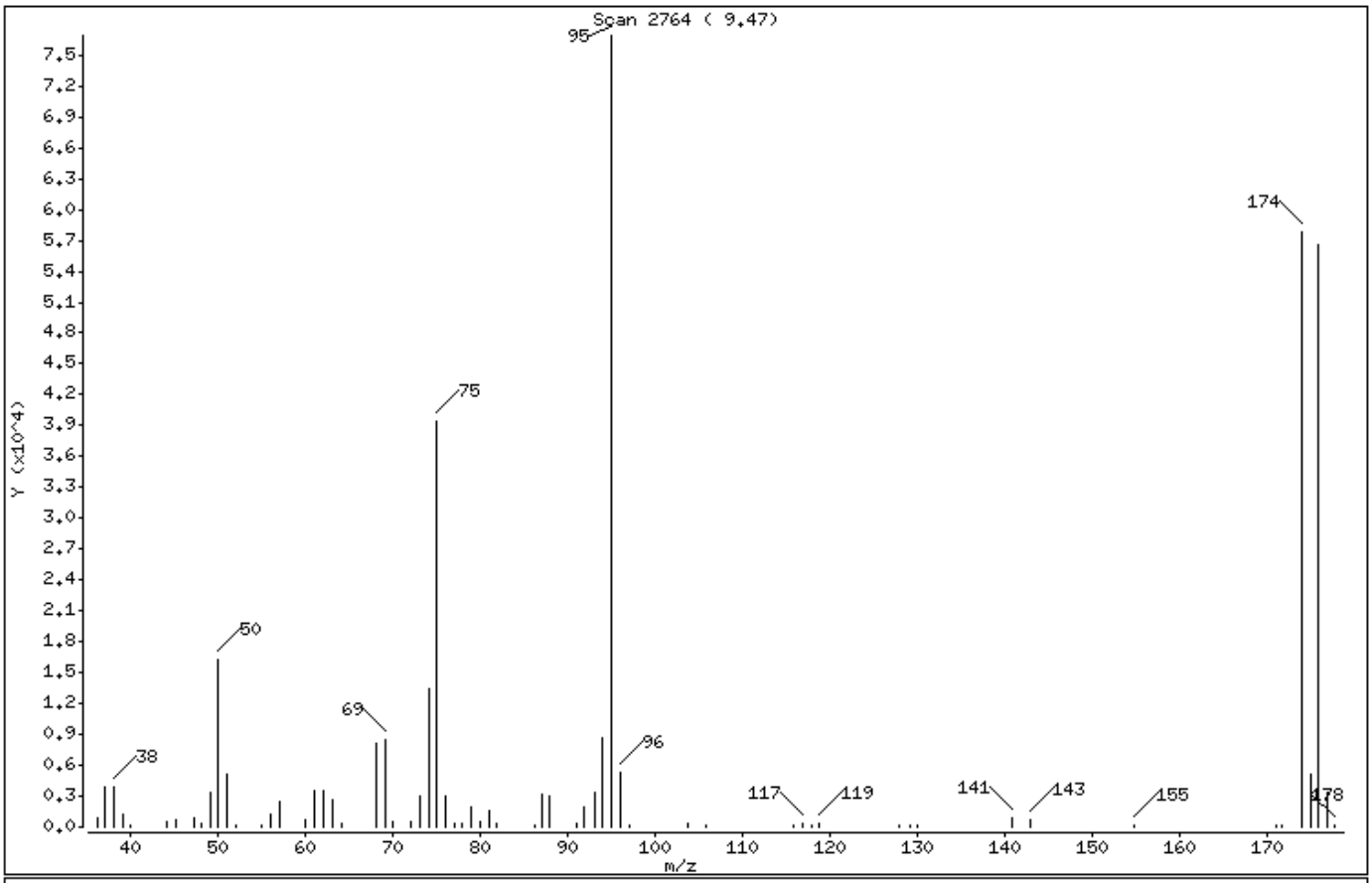
Client ID: BFB Instrument: voa7.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: AP

Column phase: DB624 Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	21.19
75	30.00 - 60.00% of mass 95	51.28
96	5.00 - 9.00% of mass 95	6.85
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	75.21
175	5.00 - 9.00% of mass 174	6.65 (8.85)
176	95.00 - 101.00% of mass 174	73.49 (97.72)
177	5.00 - 9.00% of mass 176	4.30 (5.85)

Data File: \\nahstws005\Target\chem\voa7.i\P240615.b\X061501.D Page 3

Date : 15-JUN-2024 13:38

Client ID: BFB Instrument: voa7.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: AP

Column phase: DB624 Column diameter: 0.25

Data File: X061501.D
Spectrum: Scan 2764 (9.47)
Location of Maximum: 95.00
Number of points: 64

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	822	61.00	3589	81.90	382	128.00	262
37.00	3807	62.00	3616	86.20	181	129.20	152
38.00	3819	63.00	2606	87.00	3190	129.90	231
39.00	1207	64.00	279	87.90	2939	140.90	925
40.00	184	68.00	8099	90.90	318	142.90	685
44.00	576	69.00	8538	91.90	1888	154.80	210
45.10	673	70.00	597	93.00	3403	171.00	234
47.10	924	72.00	559	94.00	8681	171.70	153
48.00	376	73.00	2954	95.00	76904	173.90	57840
49.00	3279	74.00	13384	96.00	5265	175.00	5116
50.00	16296	75.00	39440	97.00	230	175.90	56520
51.00	5127	76.00	3056	103.80	277	176.90	3307
52.00	230	77.00	329	105.90	216	177.80	154
54.90	173	77.80	382	115.80	231		
56.00	1278	79.00	1997	116.90	398		
57.00	2436	79.90	538	117.80	265		
60.00	647	80.90	1671	118.80	346		

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061502.D Page 1
Report Date: 12-Jul-2024 11:38

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061502.D
Lab Smp Id: VSTD00.5 Client Smp ID: VSTD00.5
Inj Date : 15-JUN-2024 14:01
Operator : AP Inst ID: voa7.i
Smp Info : VSTD00.5;VSTD00.5;1;1
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240615.b\8260W.m
Meth Date : 12-Jul-2024 11:38 voa7.i Quant Type: ISTD
Cal Date : 15-JUN-2024 14:01 Cal File: X061502.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Pentafluorobenzene	168	5.133	5.133	(1.000)	125772	50.0000	
	159 Dichlorofluoromethane	67	2.072	2.072	(0.404)	2316	0.50000	0.88(aM)
	11 1,1-Dichloroethene	96	2.590	2.590	(0.505)	512	0.50000	0.55(aM)
	13 Acetonitrile	39	2.963	2.963	(0.577)	1925	5.00000	3.67(a)
	15 Iodomethane	142	2.747	2.747	(0.535)	618	1.00000	4.20(M)
	16 Acrylonitrile	53	3.381	3.381	(0.659)	729	1.00000	0.73(a)
	18 Methyl tert-butyl ether	73	3.377	3.377	(0.658)	3223	0.50000	1.18
	22 1,1-Dichloroethane	63	3.866	3.866	(0.753)	1523	0.50000	0.51(Ta)
	23 Chloroprene	53	3.969	3.969	(0.773)	1169	0.50000	0.46(aM)
	25 Methacrylonitrile	41	2.152	2.152	(0.419)	2105	0.50000	1.00(aM)
	26 2,2-Dichloropropane	77	4.528	4.528	(0.882)	1306	0.50000	0.52(aM)
$	30 Dibromofluoromethane	113	5.072	5.072	(0.988)	1850	0.50000	0.32(a)
	31 1,1,1-Trichloroethane	97	5.062	5.062	(0.986)	1107	0.50000	0.46(aM)
	32 1,1-Dichloropropene	75	5.242	5.242	(0.896)	1117	0.50000	0.68(a)
	34 Carbon Tetrachloride	117	5.233	5.233	(0.894)	1128	0.50000	1.47
$	35 1,2-Dichloroethane-d4	65	5.422	5.422	(1.056)	2602	0.50000	0.63(a)
*	36 1,4-Difluorobenzene	114	5.850	5.850	(1.000)	203911	50.0000	
	38 Trichloroethene	130	6.085	6.085	(1.040)	802	0.50000	0.42(a)
	39 Bromodichloromethane	83	6.570	6.570	(1.123)	1216	0.50000	0.53(aM)
	43 2-Nitropropane	43	6.805	6.805	(1.326)	450	0.50000	1.33(a)

44 Dibromomethane	93	6.413	6.413 (1.096)	452	0.50000	0.46(a)
46 cis-1,3-Dichloropropene	75	6.978	6.978 (1.193)	1394	0.50000	1.04

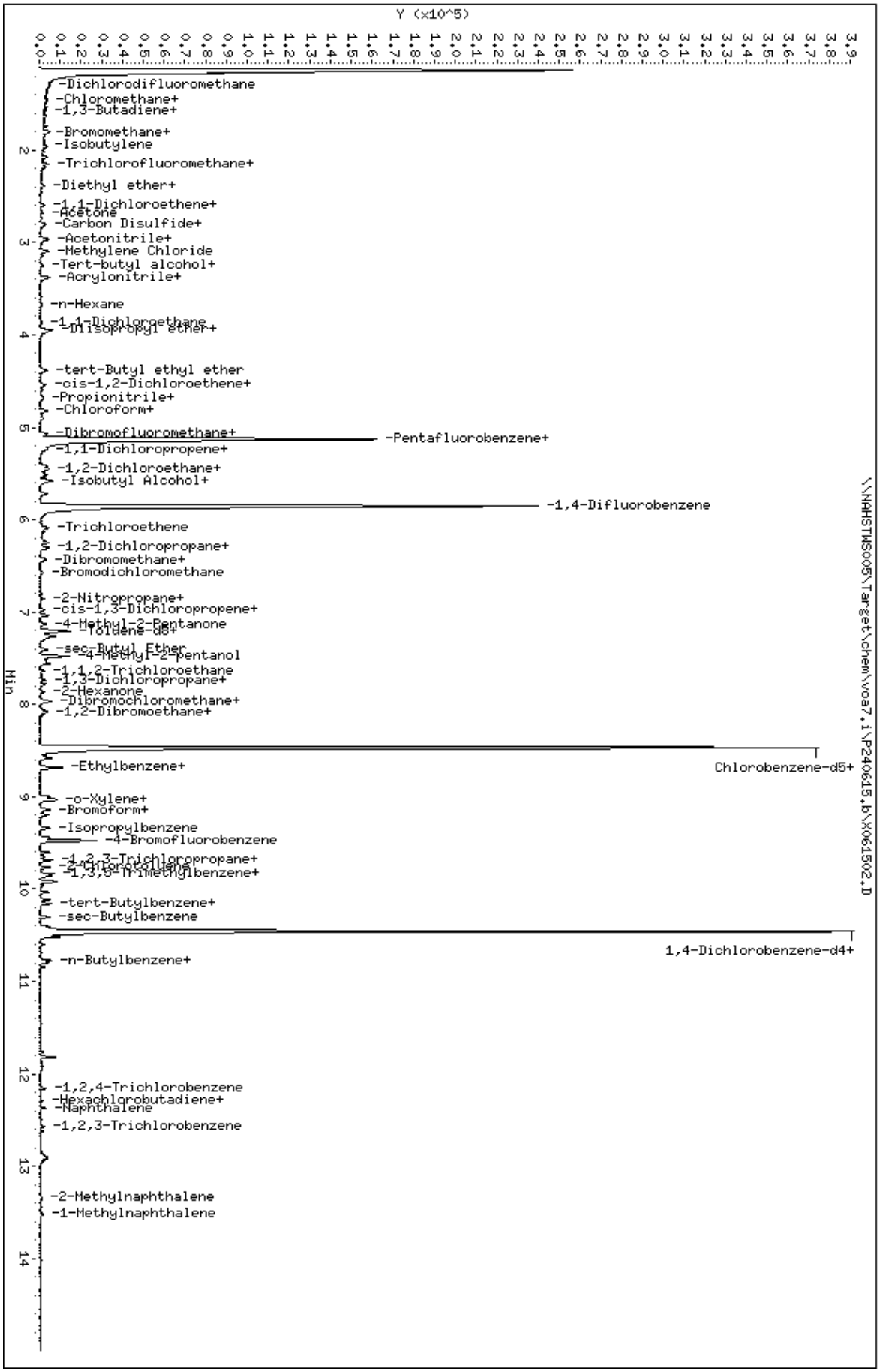
Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061502.D Page 2
Report Date: 12-Jul-2024 11:38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	47 Chlorobenzene-d5	117	8.467	8.467	(1.000)	198233	50.0000	
$	48 Toluene-d8	98	7.207	7.207	(0.851)	9677	0.50000	0.65(a)
	49 Ethyl Methacrylate	69	8.104	8.104	(1.385)	1845	0.50000	1.10(M)
	51 trans-1,3-Dichloropropene	75	6.978	6.978	(1.193)	1394	0.50000	1.04
	55 Dibromochloromethane	129	7.972	7.972	(0.942)	799	0.50000	0.49(a)
	56 Tetrachloroethene	164	7.740	7.740	(0.914)	704	0.50000	0.54(a)
	60 1,1,1,2-Tetrachloroethane	131	8.560	8.560	(1.011)	736	0.50000	0.99(a)
	66 Bromoform	173	9.200	9.200	(1.087)	501	0.50000	0.48(Ta)
$	69 4-Bromofluorobenzene	95	9.474	9.474	(1.119)	8145	0.50000	2.44
*	70 1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	94056	50.0000	
	73 n-Propylbenzene	91	9.686	9.686	(0.926)	4037	0.50000	0.58(a)
	74 Bromobenzene	156	9.602	9.602	(0.918)	883	0.50000	0.37(a)
	75 1,3,5-Trimethylbenzene	105	9.840	9.840	(0.941)	3399	0.50000	0.87(a)
	77 4-Chlorotoluene	91	9.856	9.856	(0.943)	3264	0.50000	0.38(a)
	78 tert-Butylbenzene	119	10.120	10.120	(0.968)	2356	0.50000	0.32(a)
	79 1,2,4-Trimethylbenzene	105	10.152	10.152	(0.971)	3450	0.50000	0.55(a)
	81 sec-Butylbenzene	105	10.303	10.303	(0.985)	3154	0.50000	0.73(a)
	82 p-Isopropyltoluene	119	10.422	10.422	(0.997)	2821	0.50000	0.72(a)
	83 1,3-Dichlorobenzene	146	10.403	10.403	(0.995)	1745	0.50000	0.48(a)
	87 n-Butylbenzene	91	10.773	10.773	(1.030)	3261	0.50000	0.64(a)
	88 1,2-Dichlorobenzene	146	10.801	10.801	(1.033)	1679	0.50000	0.42(a)
	90 1,2,4-Trichlorobenzene	180	12.152	12.152	(1.162)	901	0.50000	1.31
	91 Hexachlorobutadiene	225	12.290	12.290	(1.175)	279	0.50000	1.04
	92 Naphthalene	128	12.371	12.371	(1.183)	2133	0.50000	0.52(a)
	135 1,4-Dioxane	88	6.451	6.451	(1.257)	203	10.0000	5.53(TM)
	146 Methyl acetate	43	2.821	2.821	(0.550)	388	0.50000	(TaM)
	138 Freon TF	101	2.590	2.590	(0.505)	380	0.50000	0.59(aM)
	139 Diethyl ether	59	2.387	2.387	(0.465)	682	0.50000	0.74(a)
	140 1,3-Butadiene	54	1.567	1.567	(0.305)	214	0.50000	0.99(a)
	141 Cyclohexane	56	5.123	5.123	(0.998)	3487	0.50000	0.92(aM)
	147 Methylcyclohexane	83	6.252	6.252	(1.069)	1404	0.50000	2.68
	133 Ethyl Acrylate	55	6.226	6.226	(1.213)	3293	0.50000	0.93(aM)
	136 n-Hexane	57	3.683	3.683	(0.718)	529	0.50000	1.05
	142 Tetrahydrofuran	42	4.869	4.869	(0.949)	337	1.00000	2.88(M)
	148 Tert-butyl alcohol	59	3.242	3.242	(0.632)	2017	10.0000	21.73
	151 4-Methyl-2-pentanol	45	7.477	7.477	(0.883)	8638	10.0000	10.37(a)
	166 1,2,3-Trimethylbenzene	105	10.519	10.519	(1.006)	4626	0.50000	0.95(a)
	173 3,3-Dimethyl-1-butanol	57	8.085	8.085	(0.955)	2542	10.0000	23.98
	175 tert-Butyl ethyl ether	59	4.377	4.377	(0.853)	3589	0.50000	0.83(a)
	156 Diisopropyl ether	45	3.943	3.943	(0.768)	4468	0.50000	0.89(Ta)
	130 Ethyl Acetate	43	3.946	3.946	(0.769)	6119	0.50000	0.83(aM)
	176 tert-Amyl alcohol	59	5.516	5.516	(1.075)	1914	10.0000	1.54(a)
	160 Epichlorohydrin	57	6.921	6.921	(1.183)	109	2.00000	2.56(aM)
	161 Butyl acrylate	55	9.001	9.001	(1.063)	3257	0.50000	1.21(a)
	182 Isobutylene	56	1.950	1.950	(0.380)	35	0.50000	1.30(aAM)
	183 Isopropyl Acetate	43	5.570	5.570	(0.952)	2765	0.50000	0.08(aAM)
	184 n-Amyl acetate	43	9.197	9.197	(1.086)	2202	0.50000	1.21(aAM)
	185 Acetaldehyde	44	1.638	1.638	(0.319)	418	2.00000	(aM)
	186 n-Butyl acetate	43	7.969	7.969	(0.941)	1945	0.50000	(TaM)
	187 2-Etyhlhexyl Acrylate	55	12.319	12.319	(1.178)	66	0.50000	3.52(aAM)
	188 Tetrahydrothiophene	60	7.956	7.956	(0.940)	1247	0.50000	0.63(TaAM)
	189 sec-Butyl Ether	57	7.400	7.400	(0.874)	1596	0.50000	(TaM)

190 Isoprene	39	2.403	2.403 (0.468)	34	0.50000	0.45(TaAM)
191 2-Chloropropene	41	2.152	2.152 (0.419)	2105	0.50000	0.97(aAM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\NAHSTMS005\Target\chem\voa7.i\P240615.b\X061502.D
Date : 15-JUN-2024 14:01
Client ID: VSTD00.5
Sample Info: VSTD00.5;VSTD00.5;1;1
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7.i
Operator: AP
Column diameter: 0.18

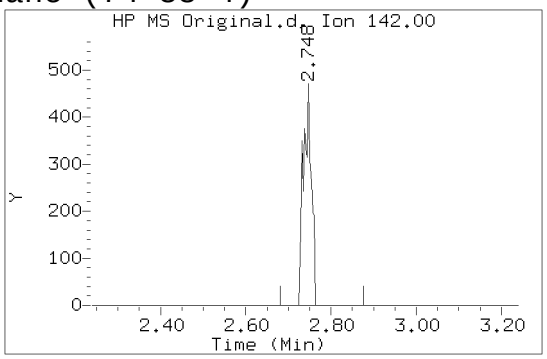
\\NAHSTMS005\Target\chem\voa7.i\P240615.b\X061502.D

Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061502.D
Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

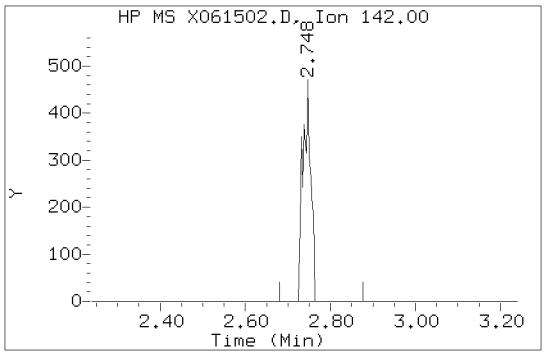
Iodomethane (74-88-4)

Reason Code:

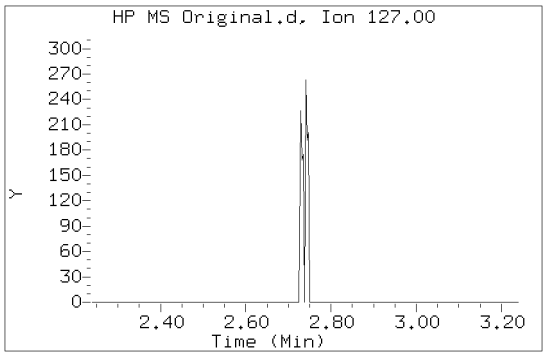
BEFORE
MASS
142
AREA
618
HEIGHT
471
12-Jul-2024
11:38
s
zaid



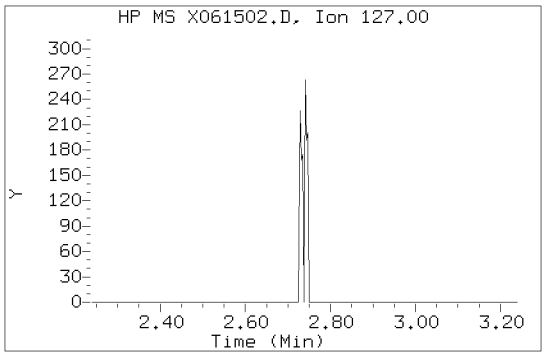
AFTER
MASS
142
AREA
618
HEIGHT
471
12-Jul-2024
11:38
s
zaid



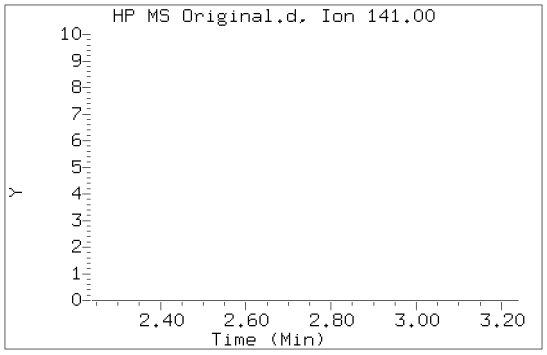
BEFORE
MASS
127
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



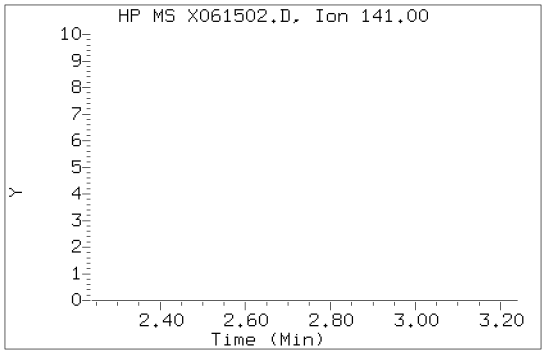
AFTER
MASS
127
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
141
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



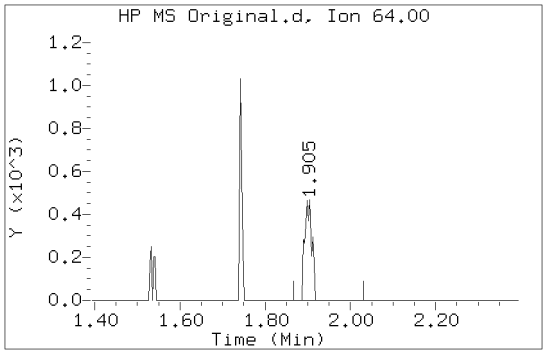
AFTER
MASS
141
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



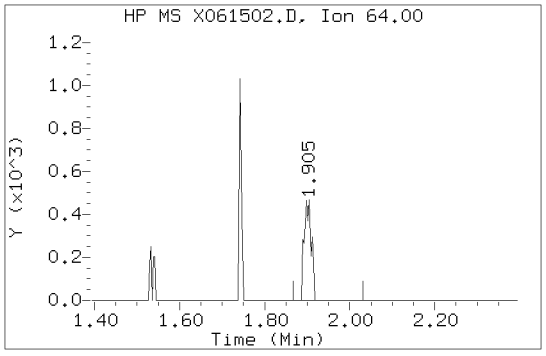
Chloroethane (75-00-3)

Reason Code:

BEFORE
MASS
64
AREA
555
HEIGHT
469
12-Jul-2024
11:38
s
zaid



AFTER
MASS
64
AREA
555
HEIGHT
469
12-Jul-2024
11:38
s
zaid



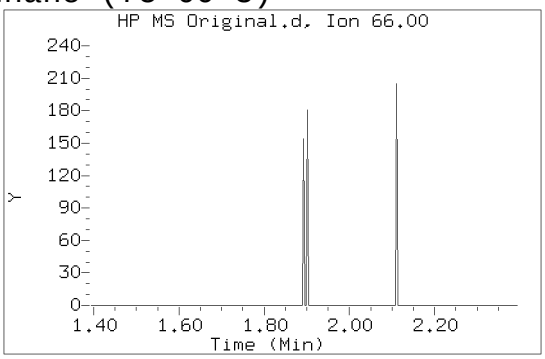
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061502.D
Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

Chloroethane (75-00-3)

Reason Code:

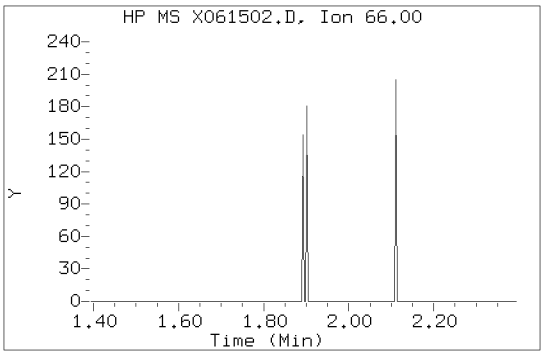
BEFORE

MASS
66
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
66
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

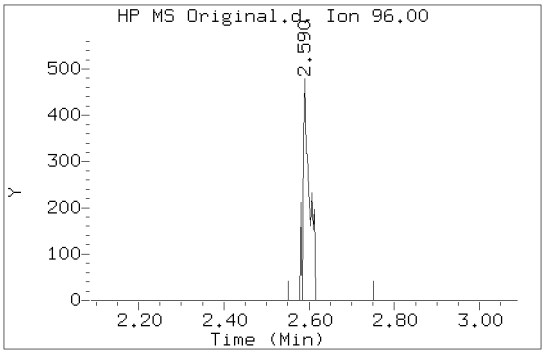


1,1-Dichloroethene (75-35-4)

Reason Code:

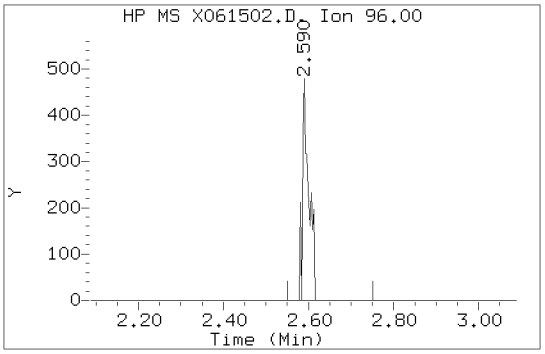
BEFORE

MASS
96
AREA
512
HEIGHT
479
12-Jul-2024
11:38
s
zaid



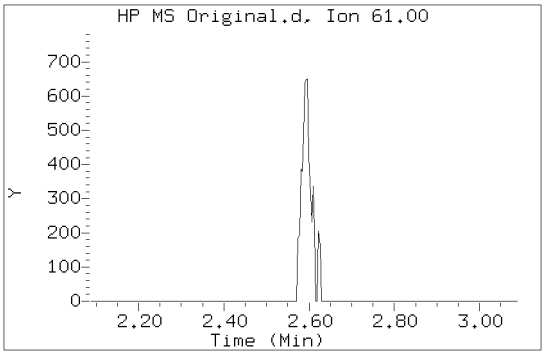
AFTER

MASS
96
AREA
512
HEIGHT
479
12-Jul-2024
11:38
s
zaid



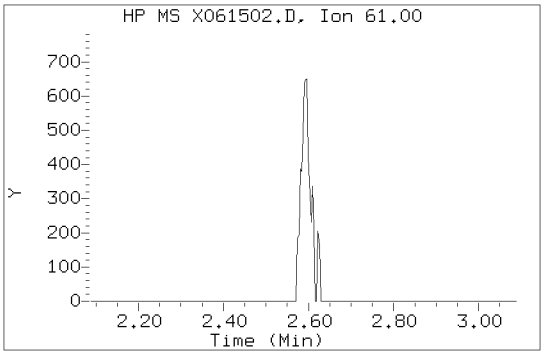
BEFORE

MASS
61
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



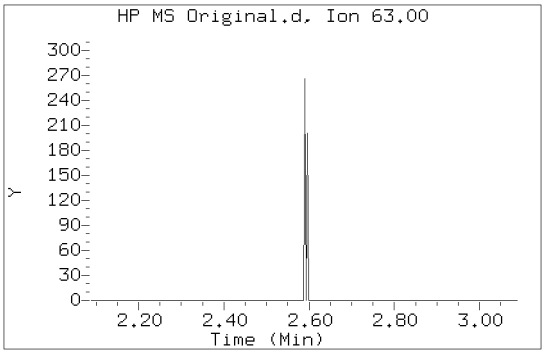
AFTER

MASS
61
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



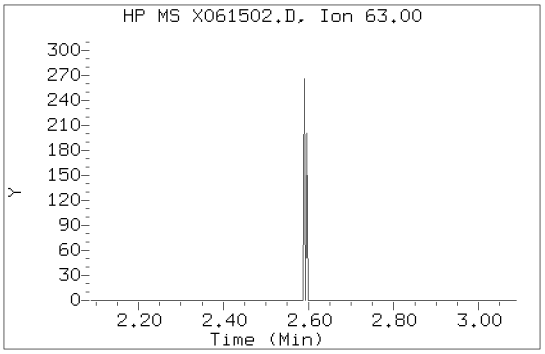
BEFORE

MASS
63
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
63
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



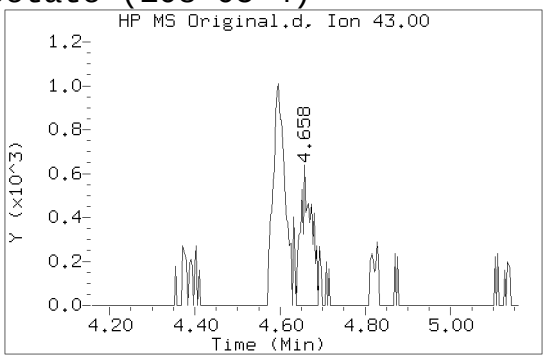
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061502.D
Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

Vinyl Acetate (108-05-4)

Reason Code:

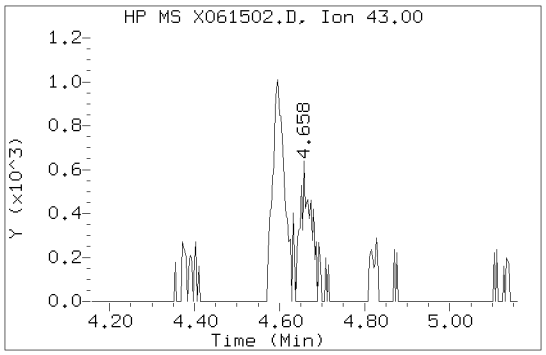
BEFORE

MASS
43
AREA
1101
HEIGHT
640
12-Jul-2024
11:38
s
zaid



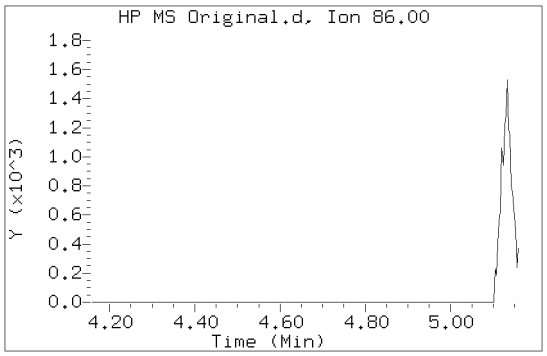
AFTER

MASS
43
AREA
1101
HEIGHT
640
12-Jul-2024
11:38
s
zaid



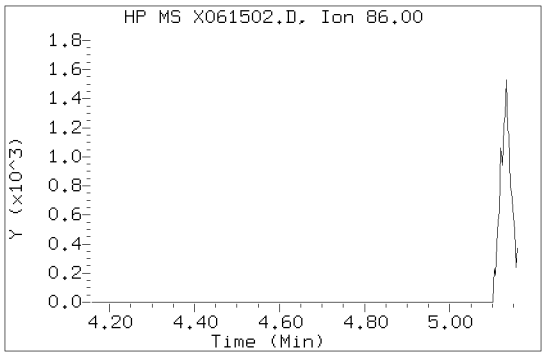
BEFORE

MASS
86
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
86
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

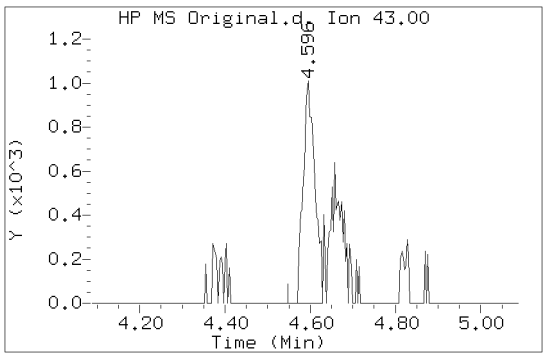


2-Butanone (78-93-3)

Reason Code:

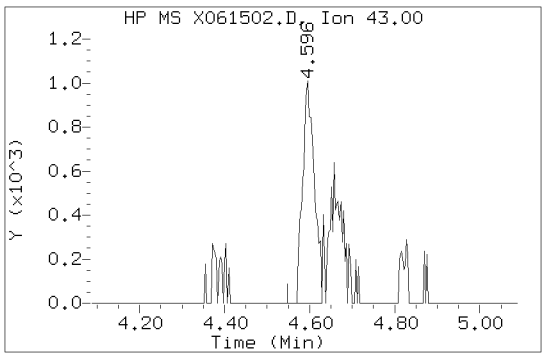
BEFORE

MASS
43
AREA
1922
HEIGHT
1010
12-Jul-2024
11:38
s
zaid



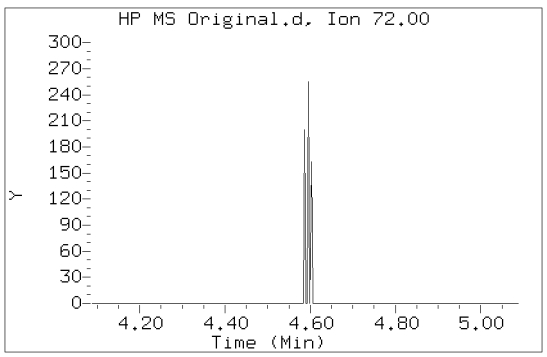
AFTER

MASS
43
AREA
1922
HEIGHT
1010
12-Jul-2024
11:38
s
zaid



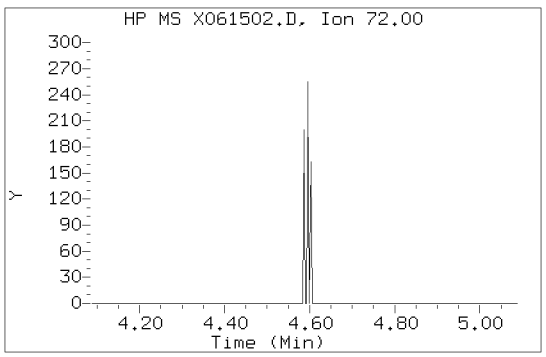
BEFORE

MASS
72
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
72
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



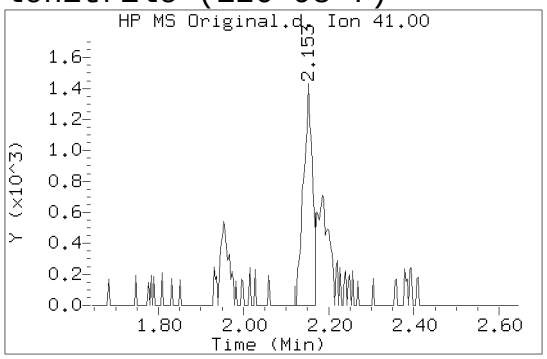
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061502.D
Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

Methacrylonitrile (126-98-7)

Reason Code:

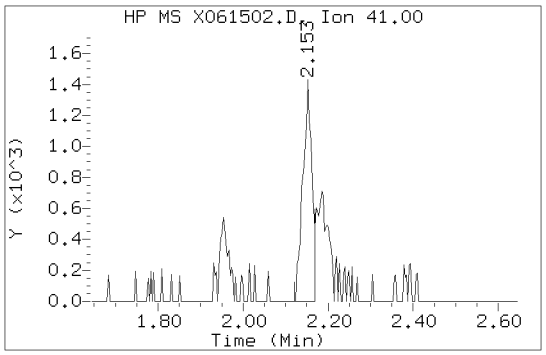
BEFORE

MASS
41
AREA
2105
HEIGHT
1431
12-Jul-2024
11:38
s
zaid



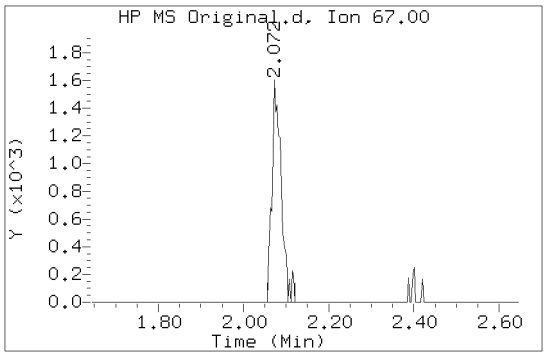
AFTER

MASS
41
AREA
2105
HEIGHT
1431
12-Jul-2024
11:38
s
zaid



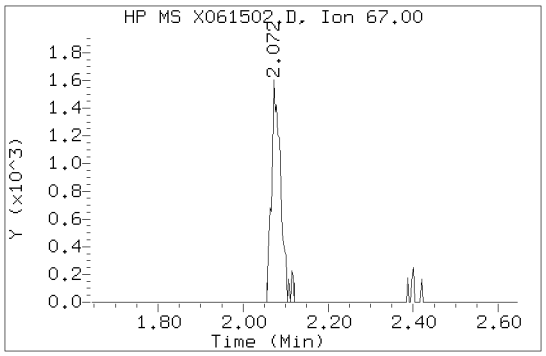
BEFORE

MASS
67
AREA
2428
HEIGHT
1604
12-Jul-2024
11:38
s
zaid



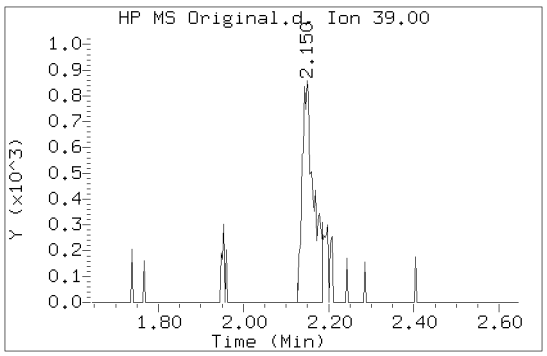
AFTER

MASS
67
AREA
2428
HEIGHT
1604
12-Jul-2024
11:38
s
zaid



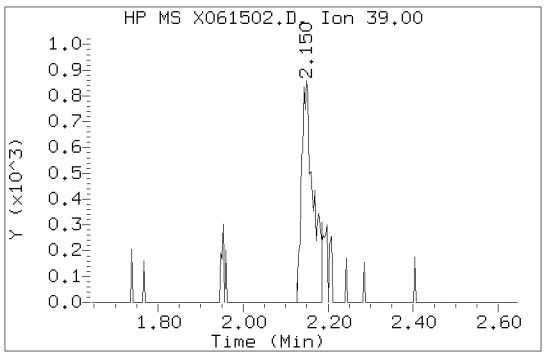
BEFORE

MASS
39
AREA
1624
HEIGHT
859
12-Jul-2024
11:38
s
zaid



AFTER

MASS
39
AREA
1624
HEIGHT
859
12-Jul-2024
11:38
s
zaid

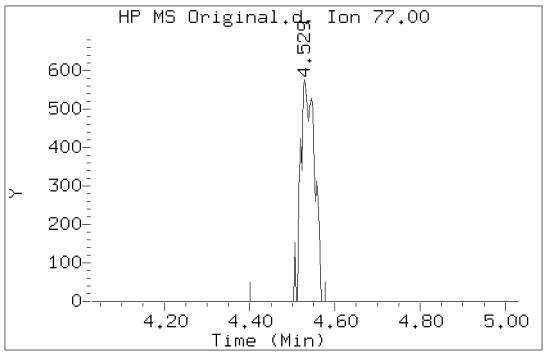


2,2-Dichloropropane (594-20-7)

Reason Code:

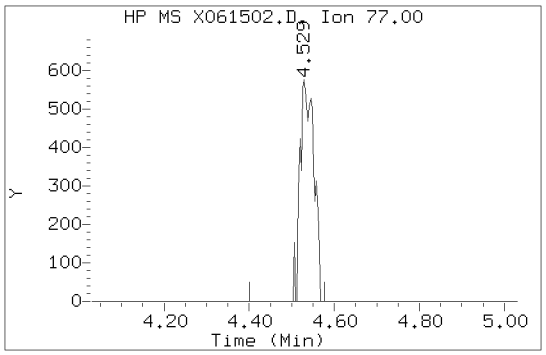
BEFORE

MASS
77
AREA
1306
HEIGHT
577
12-Jul-2024
11:38
s
zaid



AFTER

MASS
77
AREA
1306
HEIGHT
577
12-Jul-2024
11:38
s
zaid



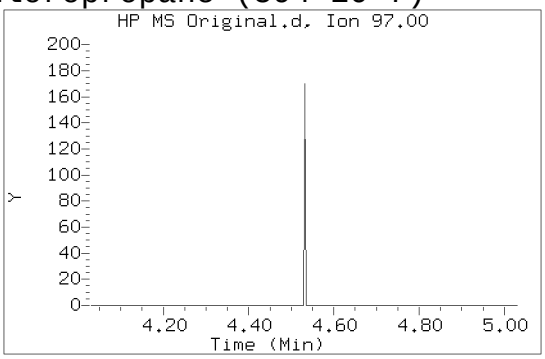
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061502.D
Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

2,2-Dichloropropane (594-20-7)

Reason Code:

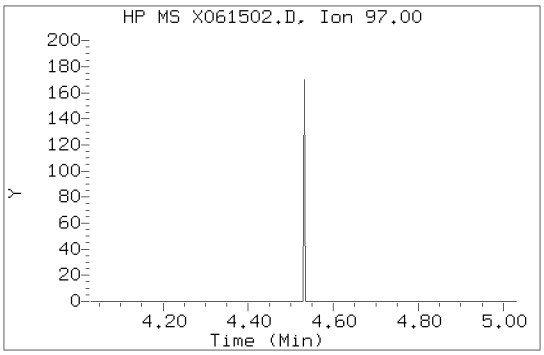
BEFORE

MASS
97
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
97
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

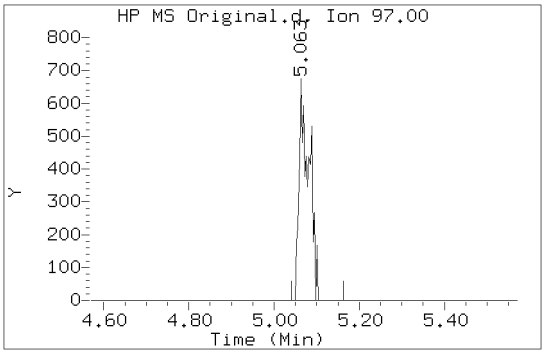


1,1,1-Trichloroethane (71-55-6)

Reason Code:

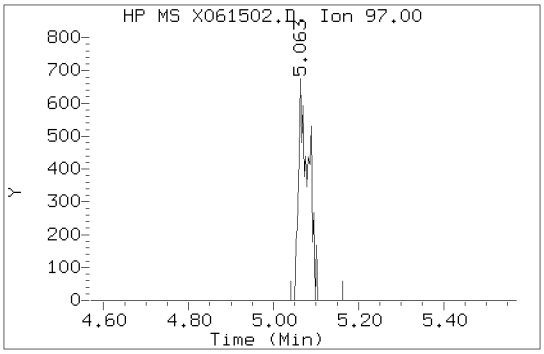
BEFORE

MASS
97
AREA
1107
HEIGHT
675
12-Jul-2024
11:38
s
zaid



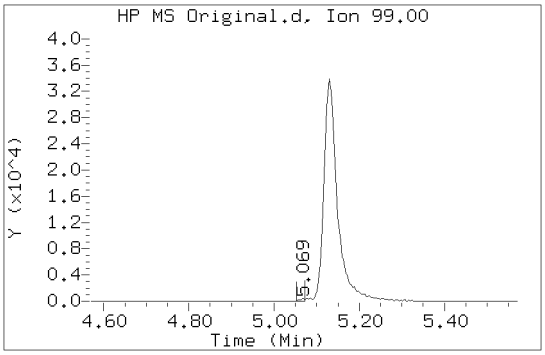
AFTER

MASS
97
AREA
1107
HEIGHT
675
12-Jul-2024
11:38
s
zaid



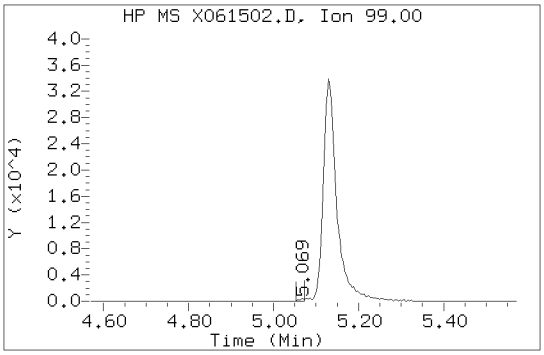
BEFORE

MASS
99
AREA
309
HEIGHT
386
12-Jul-2024
11:38
s
zaid



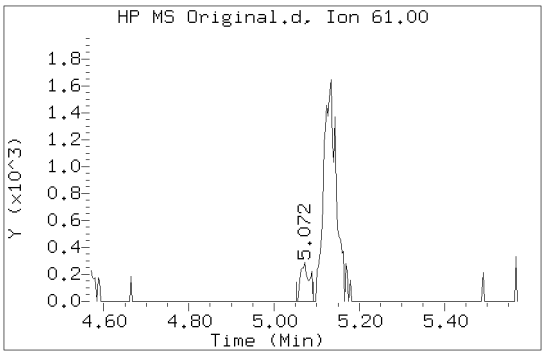
AFTER

MASS
99
AREA
309
HEIGHT
386
12-Jul-2024
11:38
s
zaid



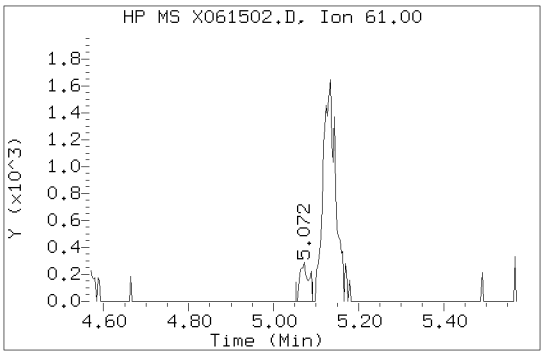
BEFORE

MASS
61
AREA
402
HEIGHT
289
12-Jul-2024
11:38
s
zaid



AFTER

MASS
61
AREA
402
HEIGHT
289
12-Jul-2024
11:38
s
zaid

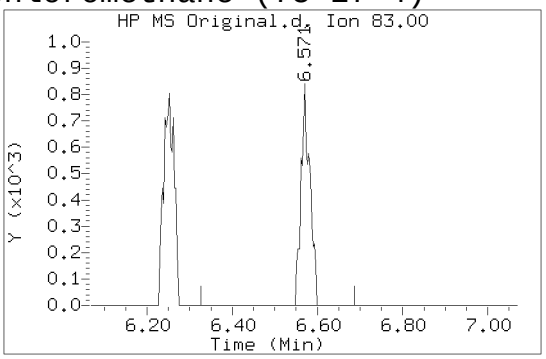


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061502.D
Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

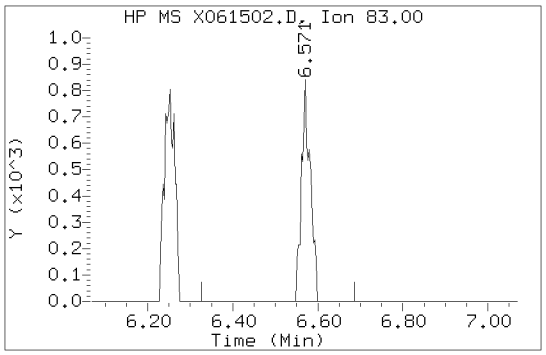
Bromodichloromethane (75-27-4)

Reason Code:

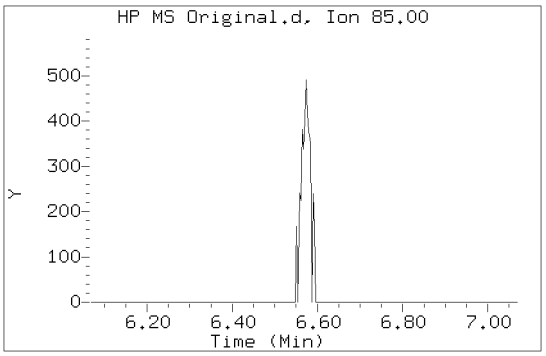
BEFORE
MASS
83
AREA
1216
HEIGHT
841
12-Jul-2024
11:38
s
zaid



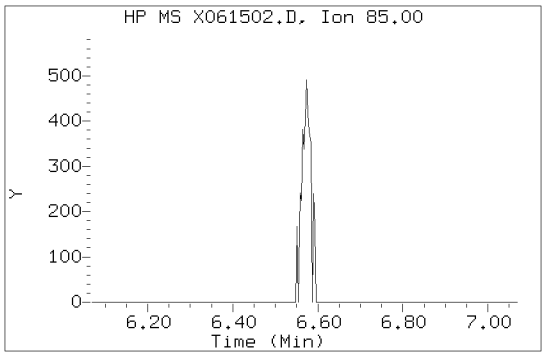
AFTER
MASS
83
AREA
1216
HEIGHT
841
12-Jul-2024
11:38
s
zaid



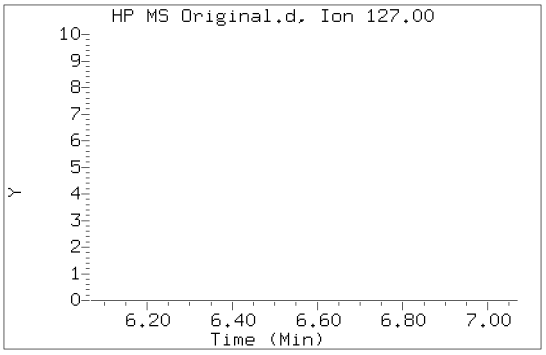
BEFORE
MASS
85
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



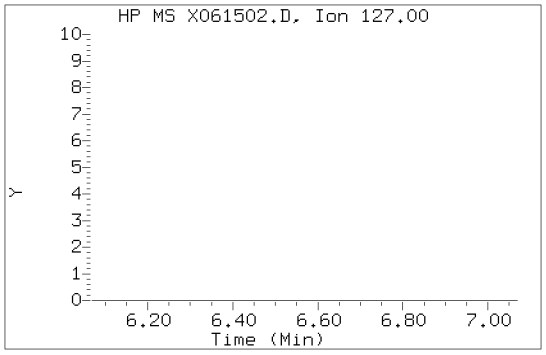
AFTER
MASS
85
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
127
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



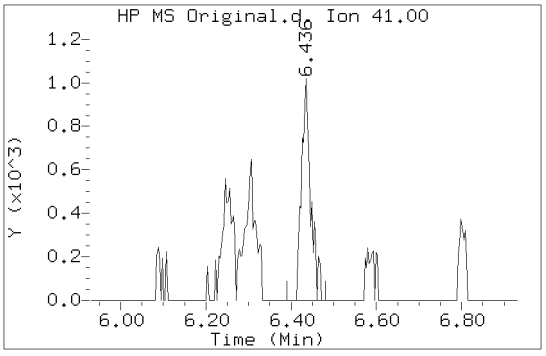
AFTER
MASS
127
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



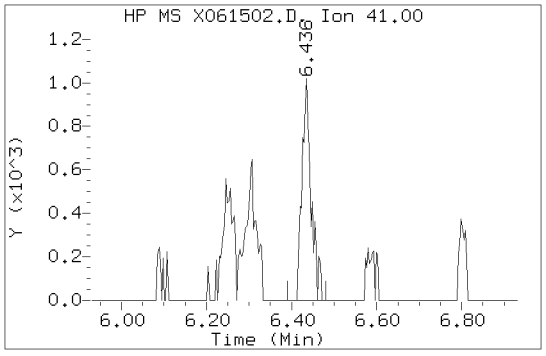
Methyl Methacrylate (80-62-6)

Reason Code:

BEFORE
MASS
41
AREA
1533
HEIGHT
1019
12-Jul-2024
11:38
s
zaid



AFTER
MASS
41
AREA
1533
HEIGHT
1019
12-Jul-2024
11:38
s
zaid

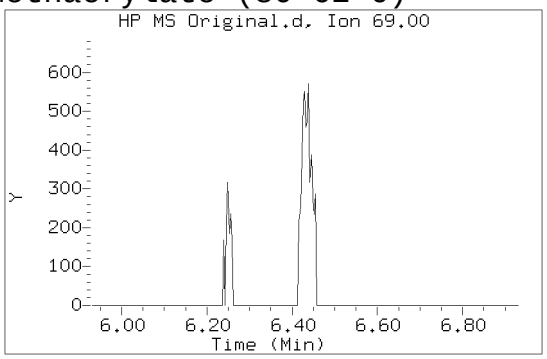


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061502.D
Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

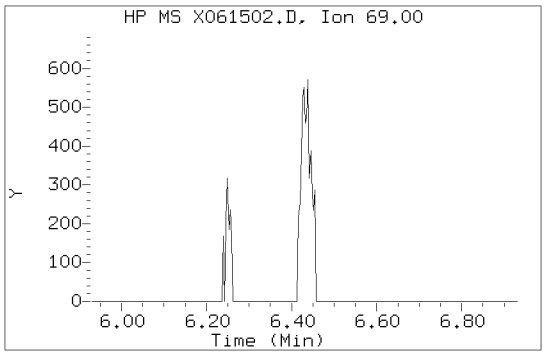
Methyl Methacrylate (80-62-6)

Reason Code:

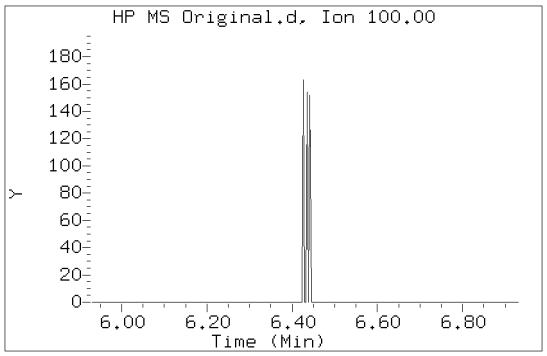
BEFORE
MASS
69
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



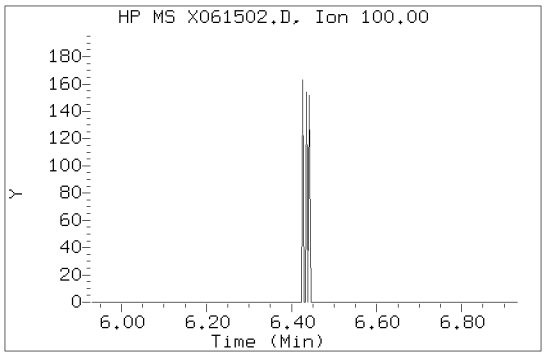
AFTER
MASS
69
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
100
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



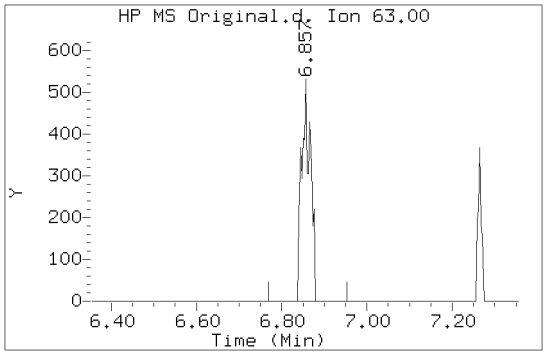
AFTER
MASS
100
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



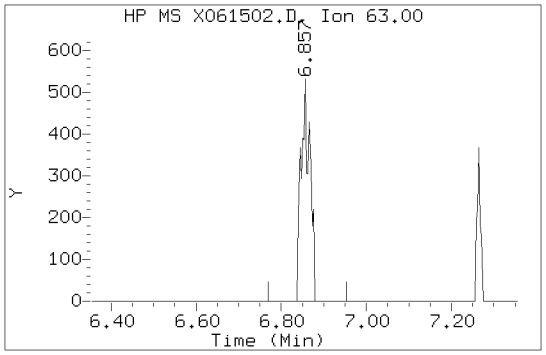
2-Chloroethylvinyl ether (110-75-8)

Reason Code:

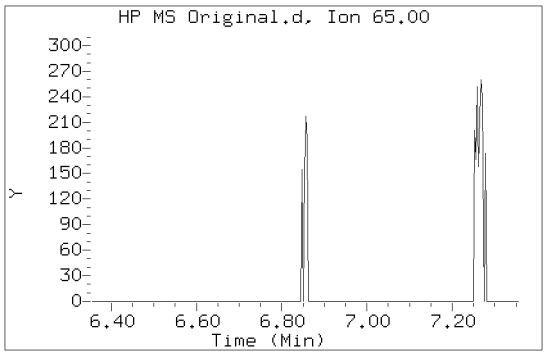
BEFORE
MASS
63
AREA
758
HEIGHT
532
12-Jul-2024
11:38
s
zaid



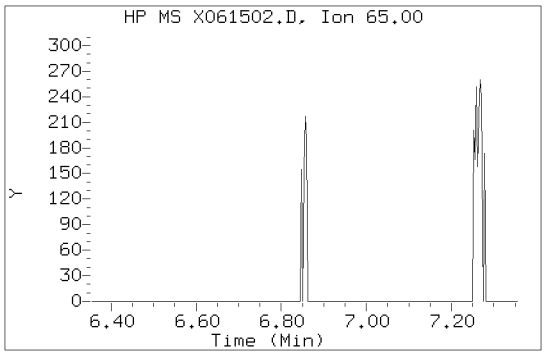
AFTER
MASS
63
AREA
758
HEIGHT
532
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
65
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER
MASS
65
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



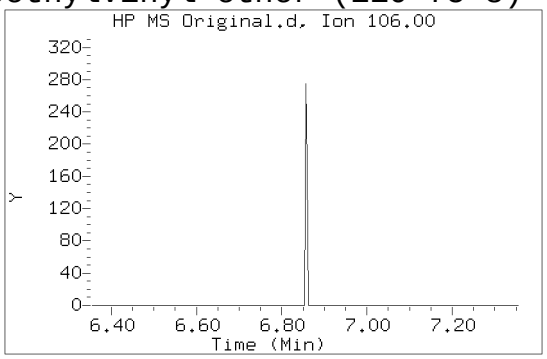
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061502.D
Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

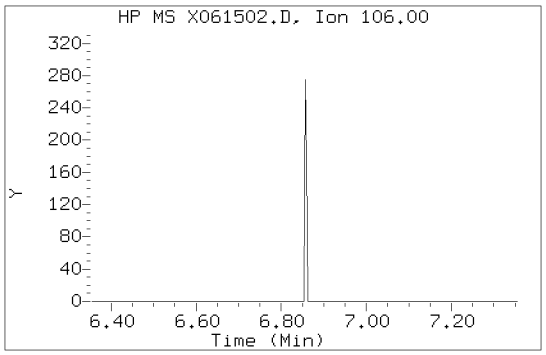
BEFORE

MASS
106
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
106
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

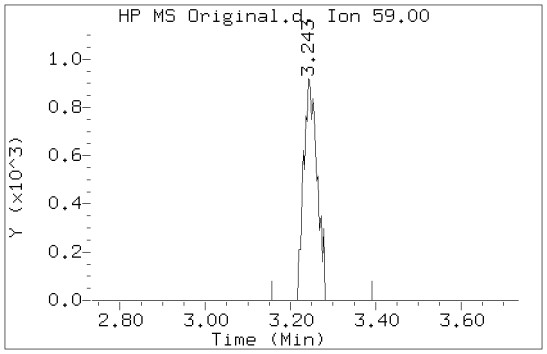


tert-Butyl formate (762-75-4)

Reason Code:

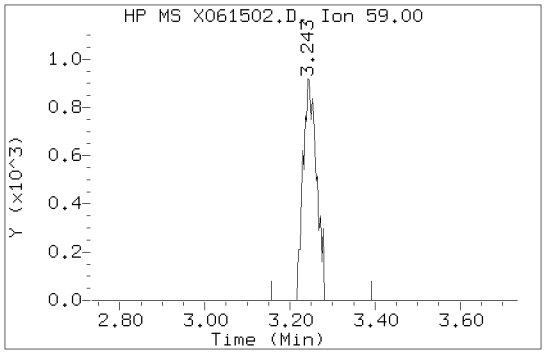
BEFORE

MASS
59
AREA
2017
HEIGHT
919
12-Jul-2024
11:38
s
zaid



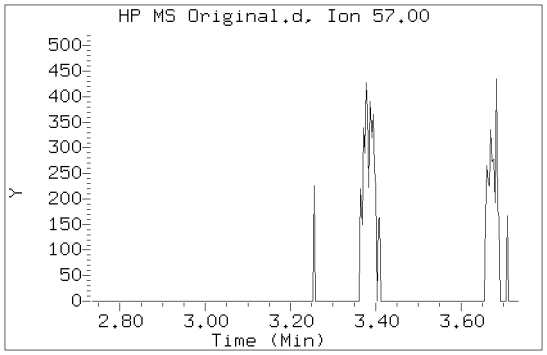
AFTER

MASS
59
AREA
2017
HEIGHT
919
12-Jul-2024
11:38
s
zaid



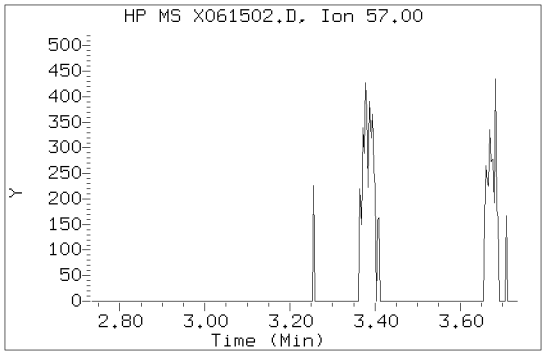
BEFORE

MASS
57
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



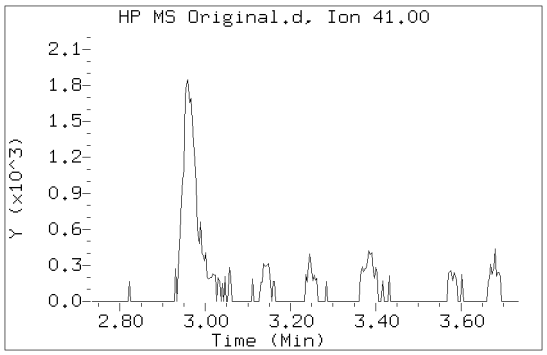
AFTER

MASS
57
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



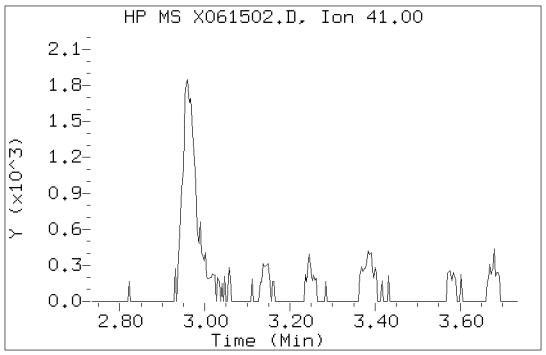
BEFORE

MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



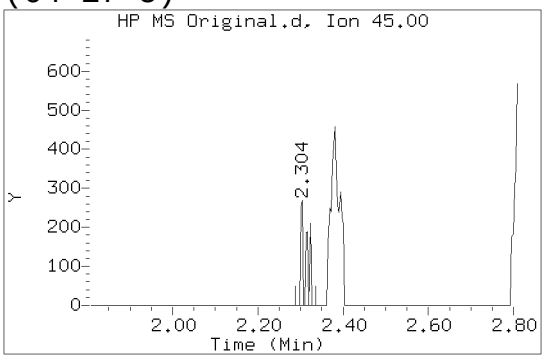
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061502.D
Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

Ethanol (64-17-5)

Reason Code:

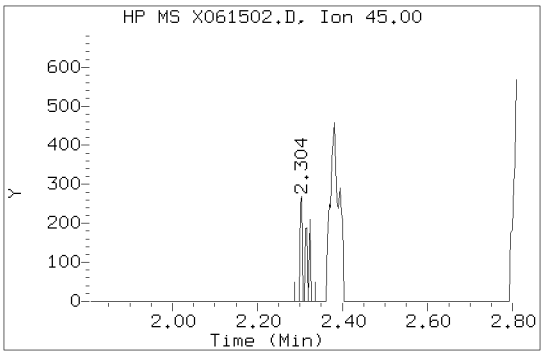
BEFORE

MASS
45
AREA
213
HEIGHT
269
12-Jul-2024
11:38
s
zaid



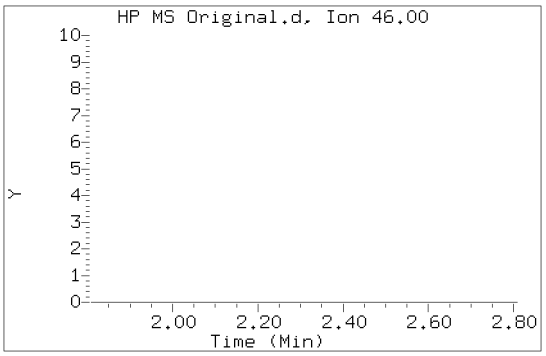
AFTER

MASS
45
AREA
213
HEIGHT
269
12-Jul-2024
11:38
s
zaid



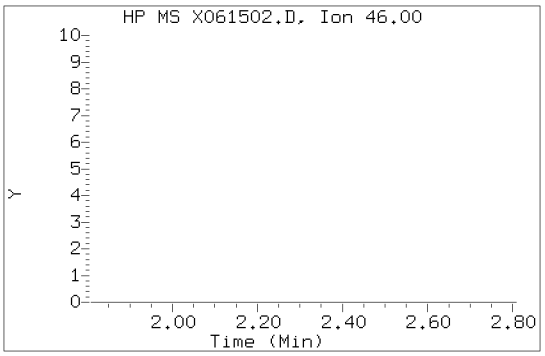
BEFORE

MASS
46
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



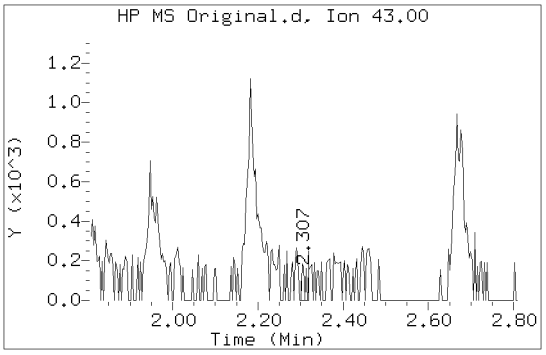
AFTER

MASS
46
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



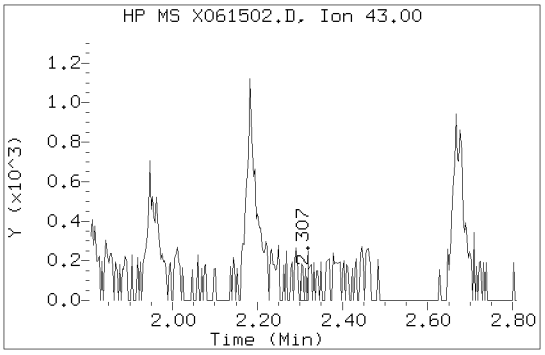
BEFORE

MASS
43
AREA
128
HEIGHT
168
12-Jul-2024
11:38
s
zaid



AFTER

MASS
43
AREA
128
HEIGHT
168
12-Jul-2024
11:38
s
zaid

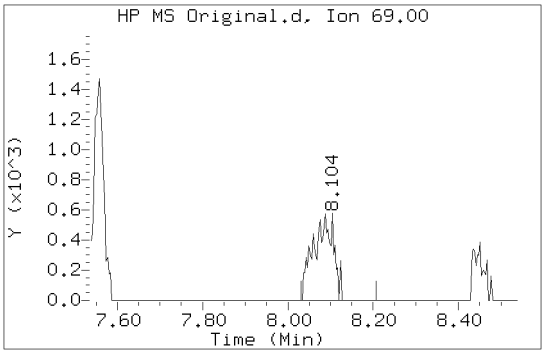


Ethyl Methacrylate (97-63-2)

Reason Code:

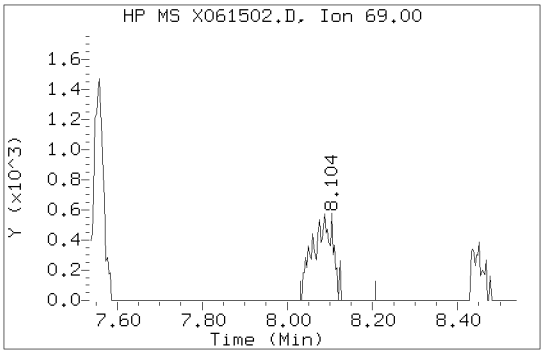
BEFORE

MASS
69
AREA
1845
HEIGHT
579
12-Jul-2024
11:38
s
zaid



AFTER

MASS
69
AREA
1845
HEIGHT
579
12-Jul-2024
11:38
s
zaid



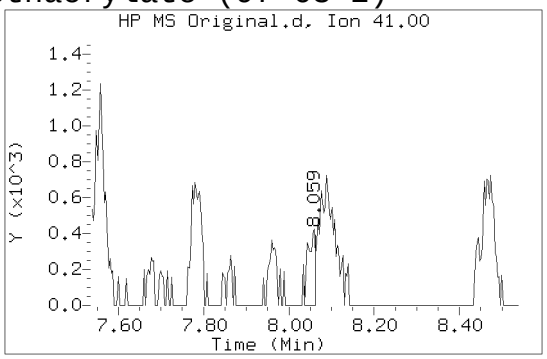
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061502.D
Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

Ethyl Methacrylate (97-63-2)

Reason Code:

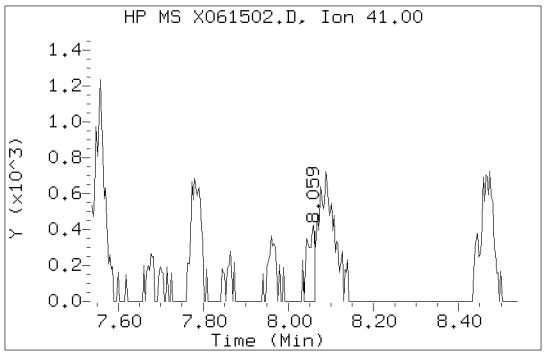
BEFORE

MASS
41
AREA
493
HEIGHT
424
12-Jul-2024
11:38
s
zaid



AFTER

MASS
41
AREA
493
HEIGHT
424
12-Jul-2024
11:38
s
zaid

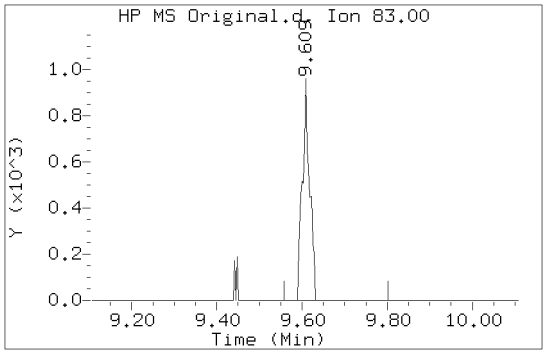


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

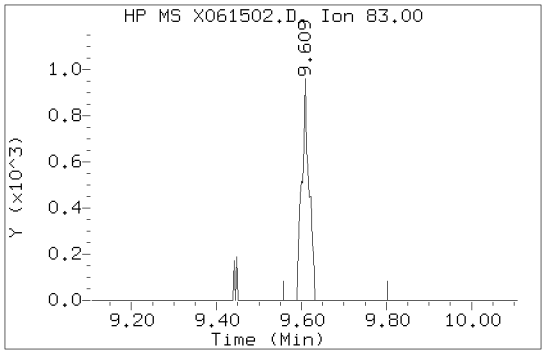
BEFORE

MASS
83
AREA
1141
HEIGHT
960
12-Jul-2024
11:38
s
zaid



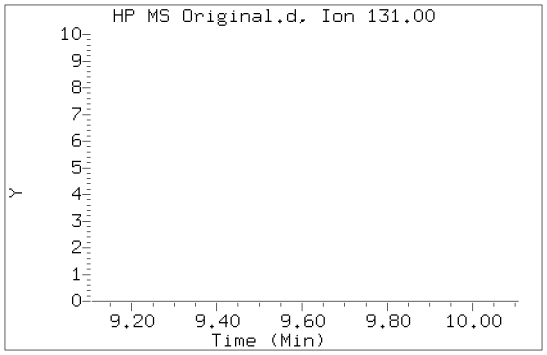
AFTER

MASS
83
AREA
1141
HEIGHT
960
12-Jul-2024
11:38
s
zaid



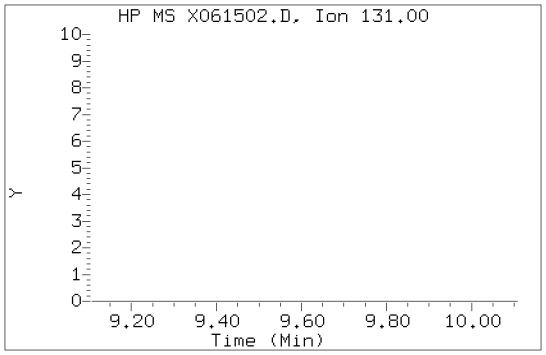
BEFORE

MASS
131
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



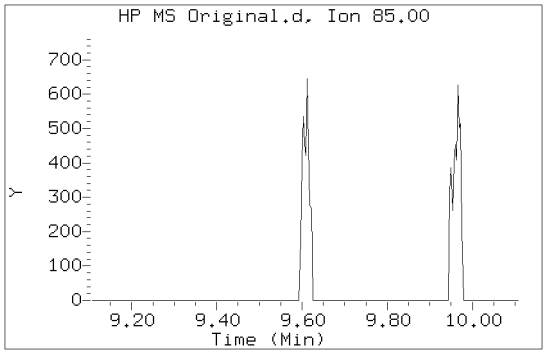
AFTER

MASS
131
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



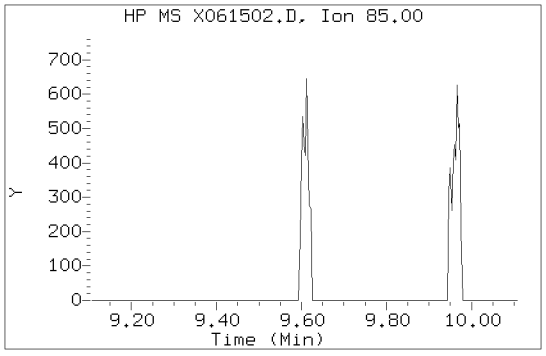
BEFORE

MASS
85
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
85
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



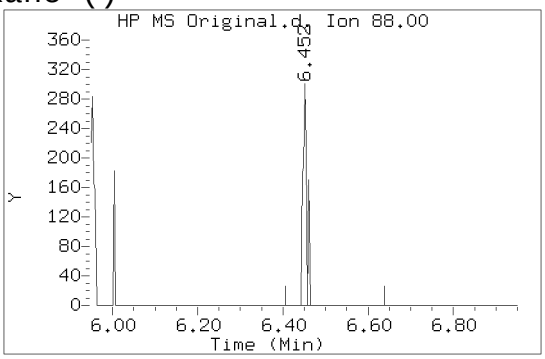
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061502.D
Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

1,4-Dioxane ()

Reason Code:

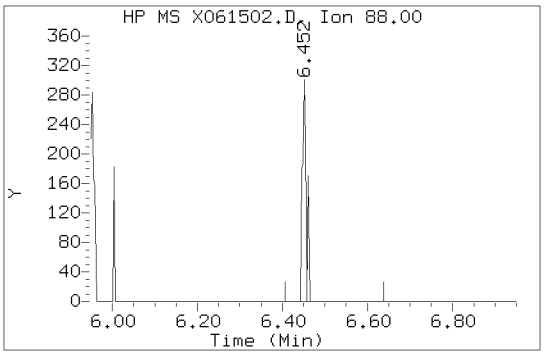
BEFORE

MASS
88
AREA
203
HEIGHT
301
12-Jul-2024
11:38
s
zaid



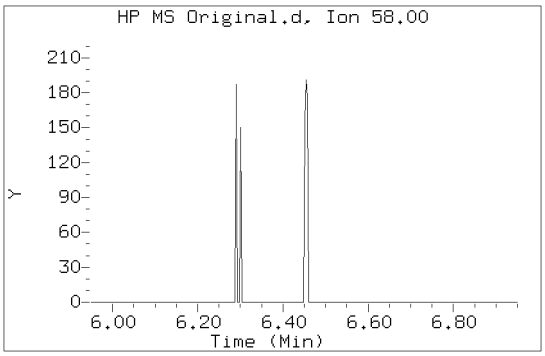
AFTER

MASS
88
AREA
203
HEIGHT
301
12-Jul-2024
11:38
s
zaid



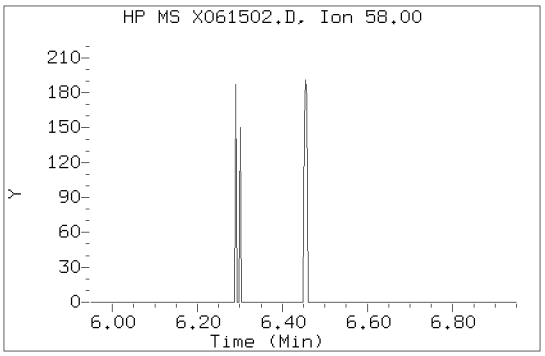
BEFORE

MASS
58
AREA
416
HEIGHT
335
12-Jul-2024
11:38
s
zaid



AFTER

MASS
58
AREA
416
HEIGHT
335
12-Jul-2024
11:38
s
zaid

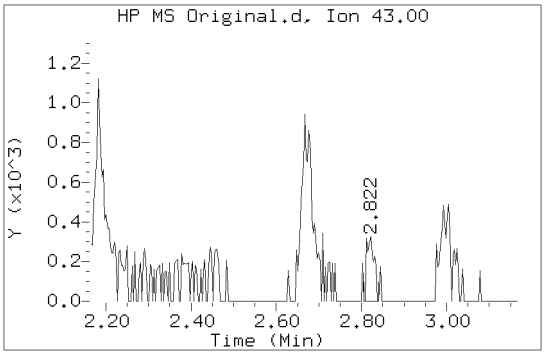


Methyl acetate (79-20-9)

Reason Code:

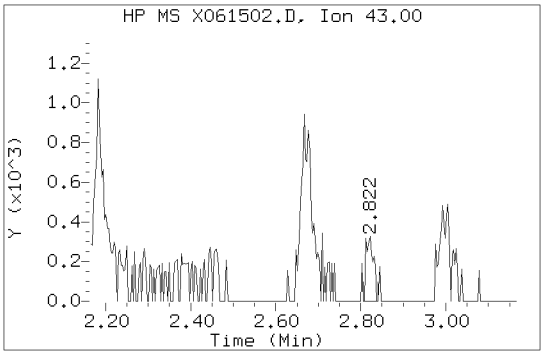
BEFORE

MASS
43
AREA
388
HEIGHT
329
12-Jul-2024
11:38
s
zaid



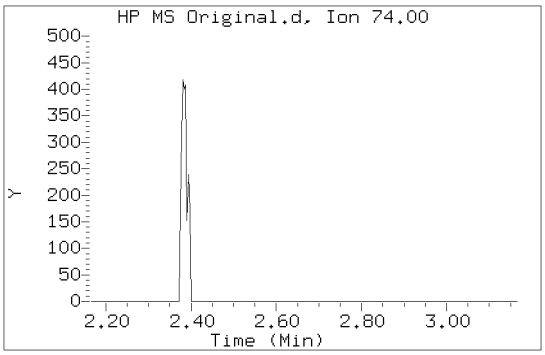
AFTER

MASS
43
AREA
388
HEIGHT
329
12-Jul-2024
11:38
s
zaid



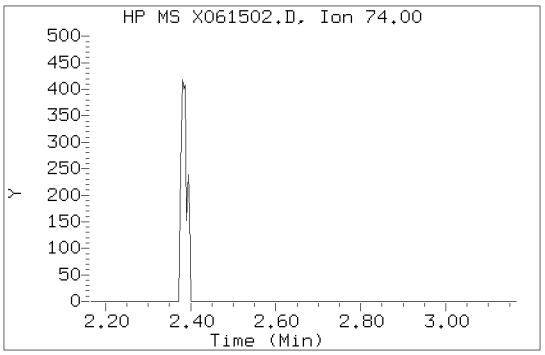
BEFORE

MASS
74
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
74
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



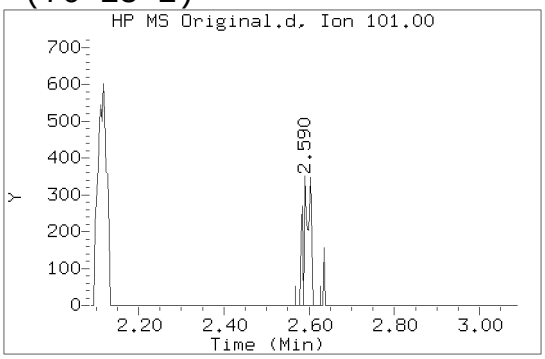
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061502.D
Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

Freon TF (76-13-1)

Reason Code:

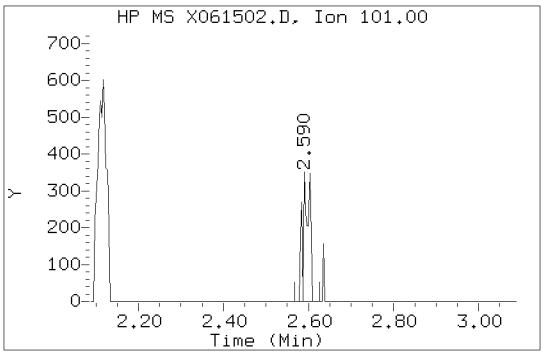
BEFORE

MASS
101
AREA
380
HEIGHT
351
12-Jul-2024
11:38
s
zaid



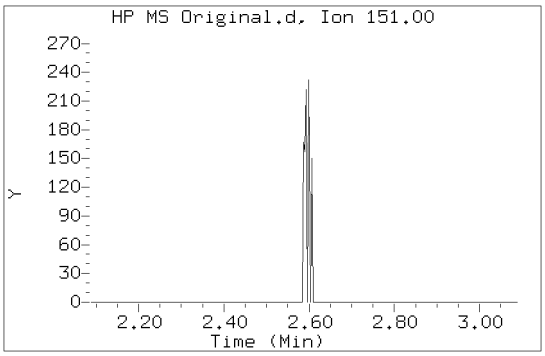
AFTER

MASS
101
AREA
380
HEIGHT
351
12-Jul-2024
11:38
s
zaid



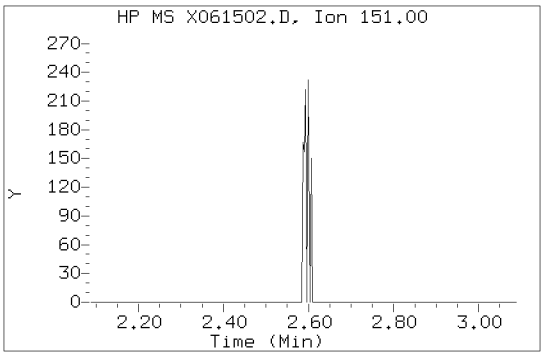
BEFORE

MASS
151
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



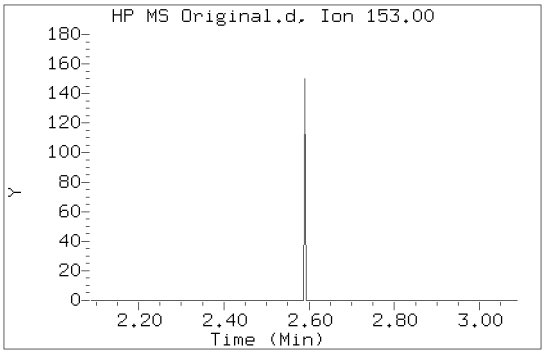
AFTER

MASS
151
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



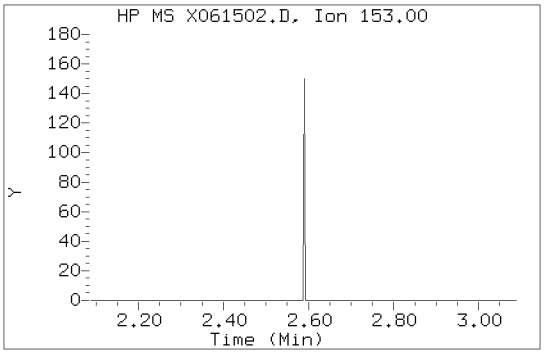
BEFORE

MASS
153
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
153
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

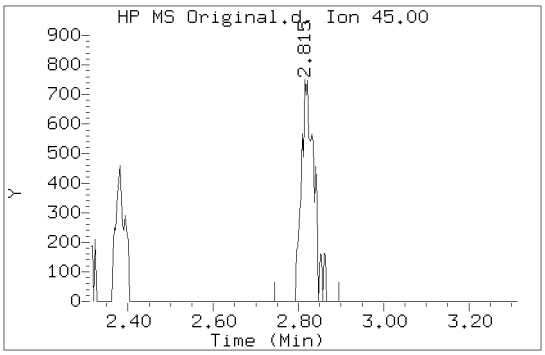


Isopropyl alcohol (67-63-0)

Reason Code:

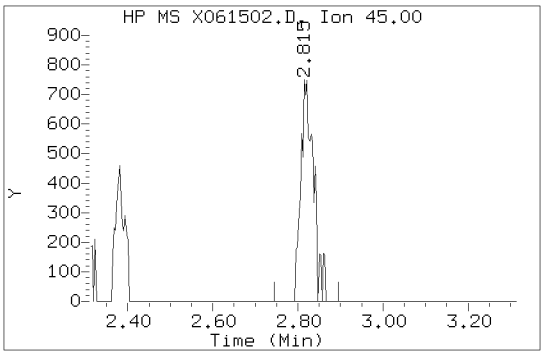
BEFORE

MASS
45
AREA
1589
HEIGHT
750
12-Jul-2024
11:38
s
zaid



AFTER

MASS
45
AREA
1589
HEIGHT
750
12-Jul-2024
11:38
s
zaid



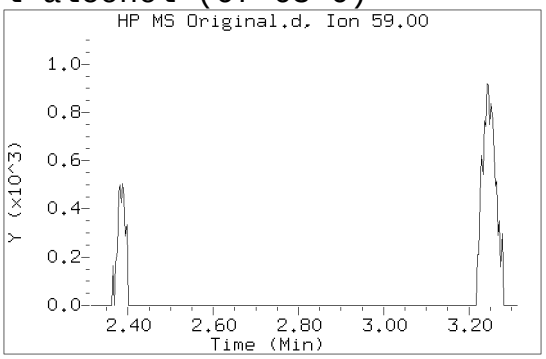
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061502.D
Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

Isopropyl alcohol (67-63-0)

Reason Code:

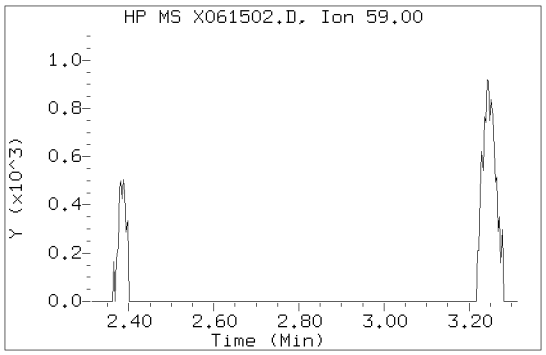
BEFORE

MASS
59
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
59
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

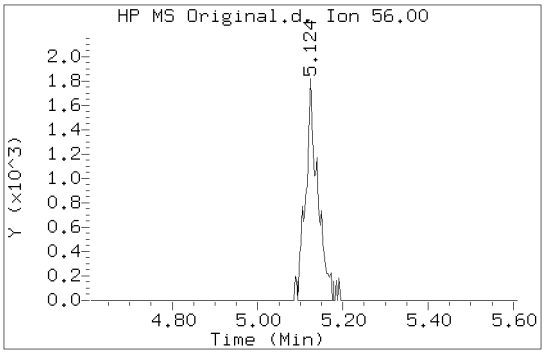


Cyclohexane (110-82-7)

Reason Code:

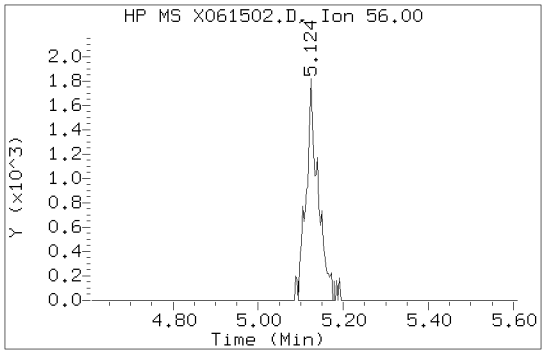
BEFORE

MASS
56
AREA
3487
HEIGHT
1820
12-Jul-2024
11:38
s
zaid



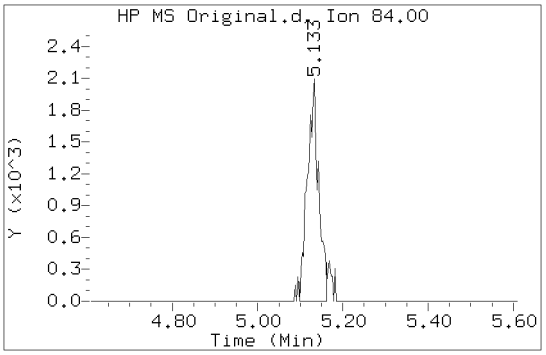
AFTER

MASS
56
AREA
3487
HEIGHT
1820
12-Jul-2024
11:38
s
zaid



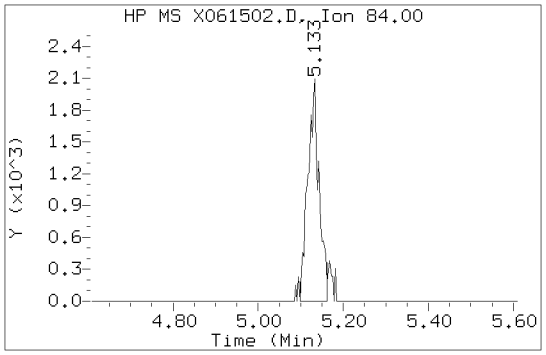
BEFORE

MASS
84
AREA
3806
HEIGHT
2094
12-Jul-2024
11:38
s
zaid



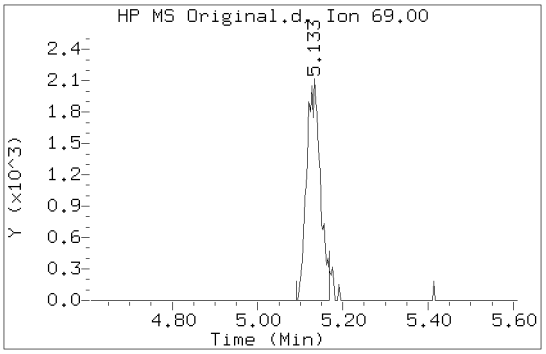
AFTER

MASS
84
AREA
3806
HEIGHT
2094
12-Jul-2024
11:38
s
zaid



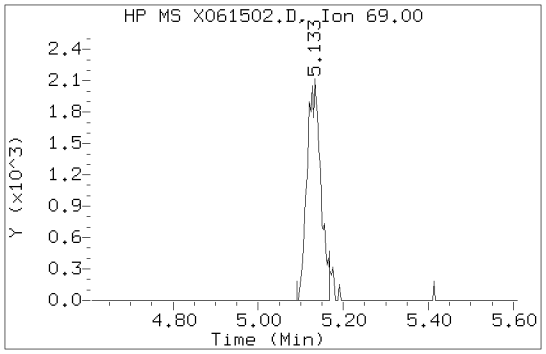
BEFORE

MASS
69
AREA
4717
HEIGHT
2119
12-Jul-2024
11:38
s
zaid



AFTER

MASS
69
AREA
4717
HEIGHT
2119
12-Jul-2024
11:38
s
zaid

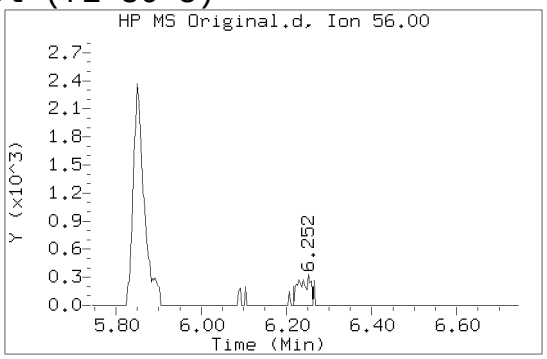


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061502.D
Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

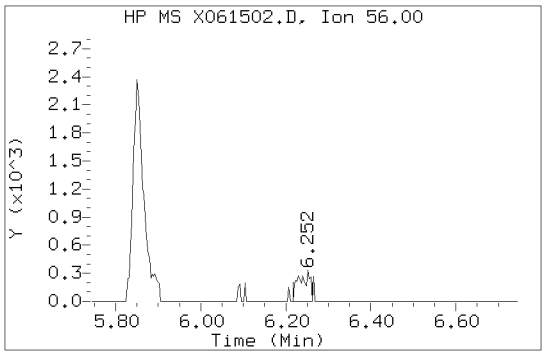
n-Butanol (71-36-3)

Reason Code:

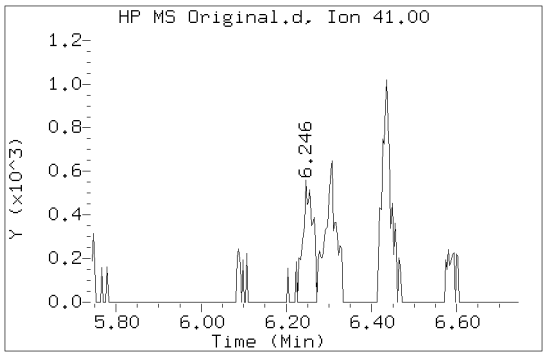
BEFORE
MASS
56
AREA
574
HEIGHT
334
12-Jul-2024
11:38
s
zaid



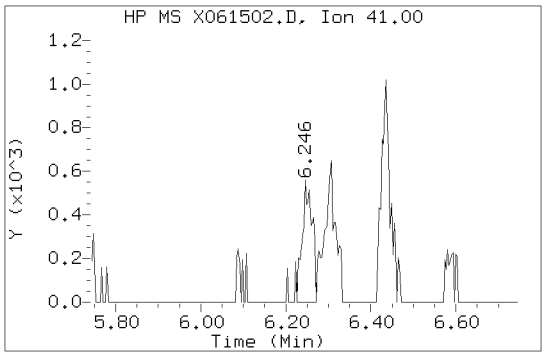
AFTER
MASS
56
AREA
574
HEIGHT
334
12-Jul-2024
11:38
s
zaid



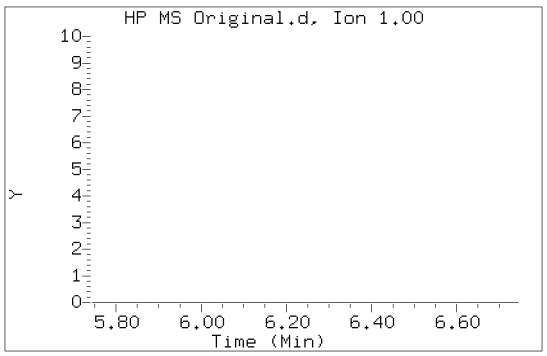
BEFORE
MASS
41
AREA
901
HEIGHT
561
12-Jul-2024
11:38
s
zaid



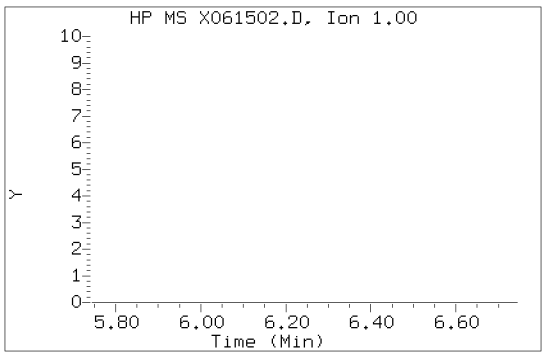
AFTER
MASS
41
AREA
901
HEIGHT
561
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
1
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



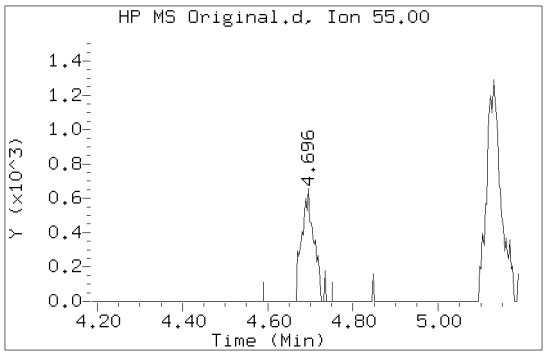
AFTER
MASS
1
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



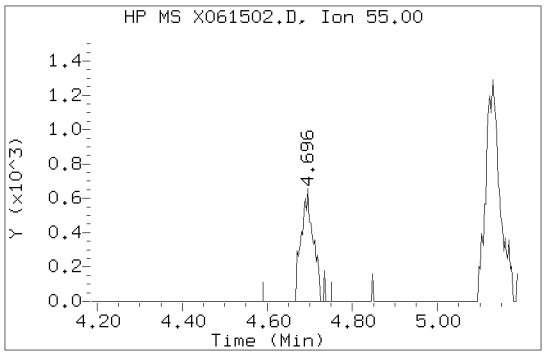
Methyl Acrylate (96-33-3)

Reason Code:

BEFORE
MASS
55
AREA
1317
HEIGHT
657
12-Jul-2024
11:38
s
zaid



AFTER
MASS
55
AREA
1317
HEIGHT
657
12-Jul-2024
11:38
s
zaid



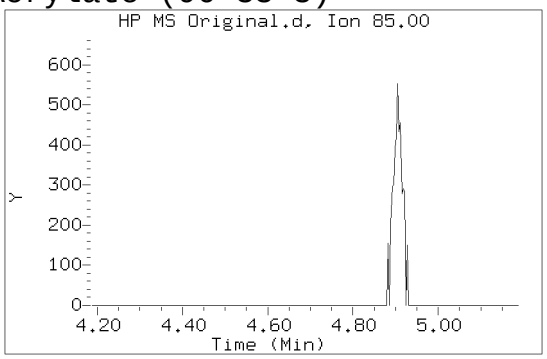
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061502.D
Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

Methyl Acrylate (96-33-3)

Reason Code:

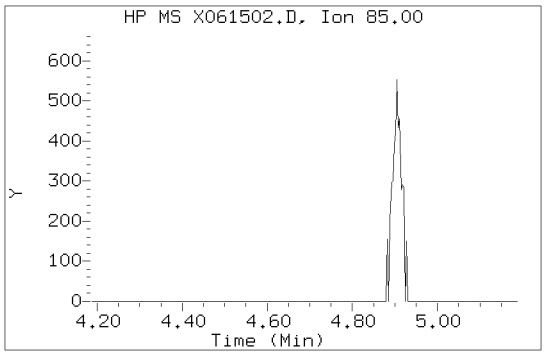
BEFORE

MASS
85
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
85
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

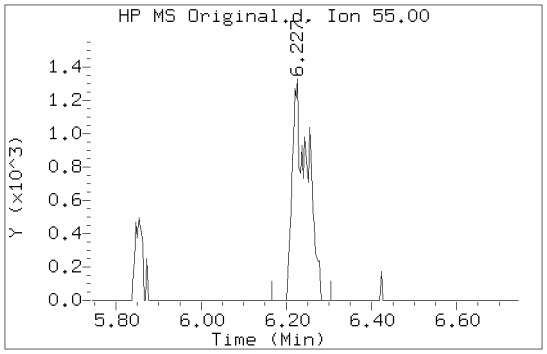


Ethyl Acrylate (140-88-5)

Reason Code:

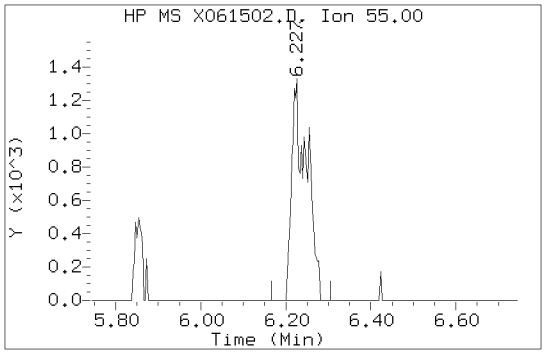
BEFORE

MASS
55
AREA
3293
HEIGHT
1330
12-Jul-2024
11:38
s
zaid



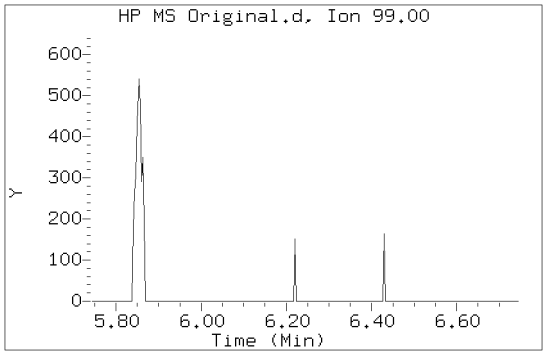
AFTER

MASS
55
AREA
3293
HEIGHT
1330
12-Jul-2024
11:38
s
zaid



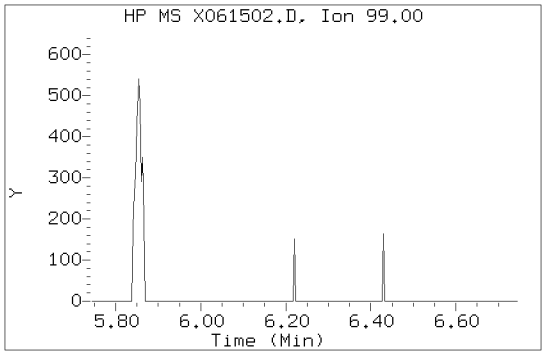
BEFORE

MASS
99
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
99
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

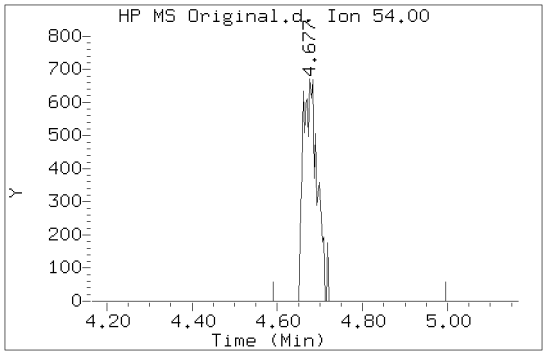


Propionitrile (107-12-0)

Reason Code:

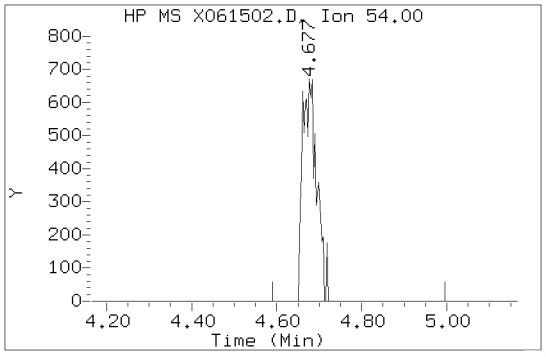
BEFORE

MASS
54
AREA
1567
HEIGHT
671
12-Jul-2024
11:38
s
zaid



AFTER

MASS
54
AREA
1567
HEIGHT
671
12-Jul-2024
11:38
s
zaid

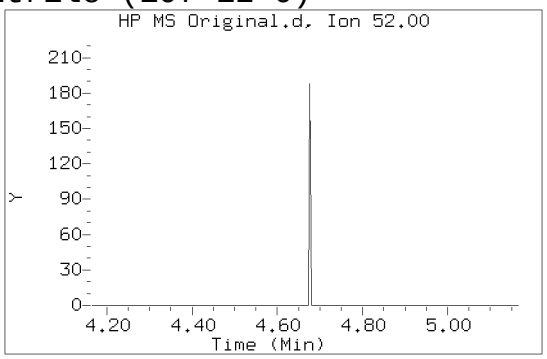


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061502.D
Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

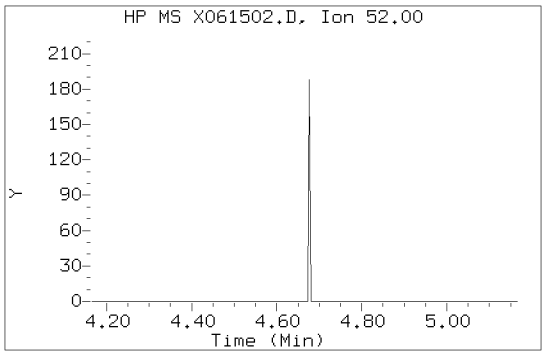
Propionitrile (107-12-0)

Reason Code:

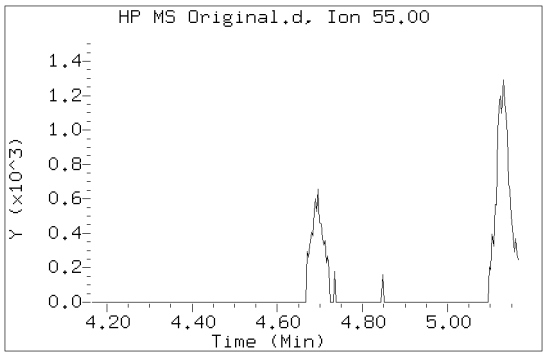
BEFORE
MASS
52
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



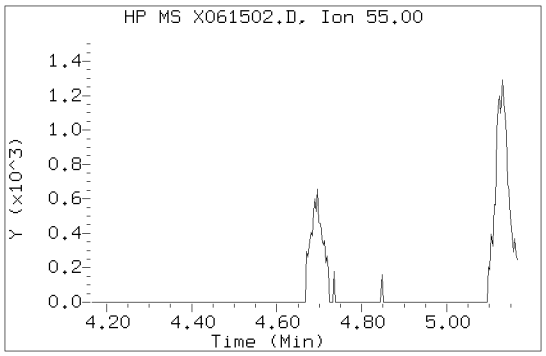
AFTER
MASS
52
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
55
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



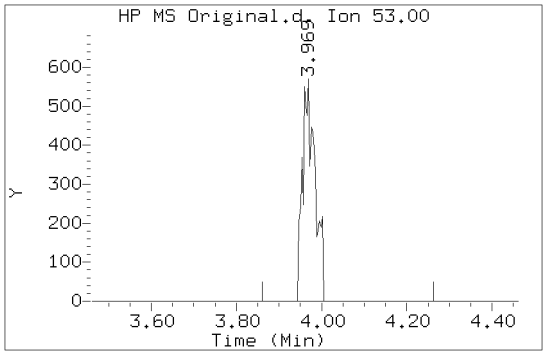
AFTER
MASS
55
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



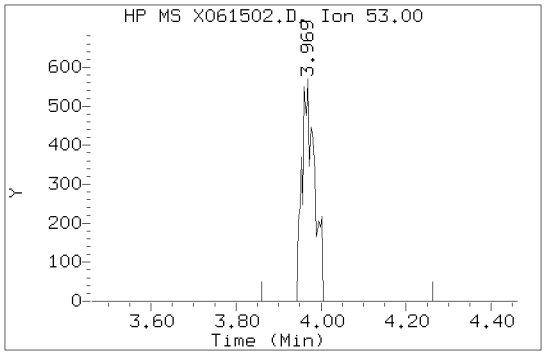
Chloroprene (126-99-8)

Reason Code:

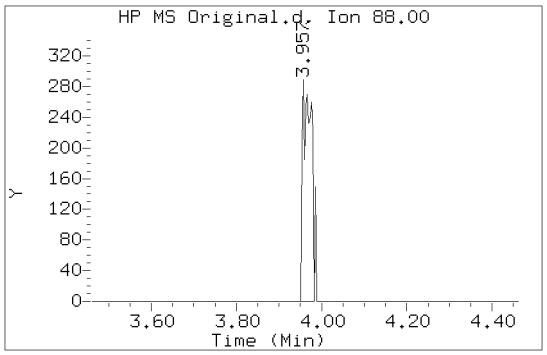
BEFORE
MASS
53
AREA
1169
HEIGHT
570
12-Jul-2024
11:38
s
zaid



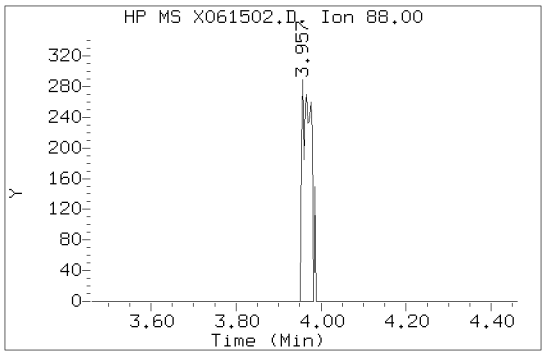
AFTER
MASS
53
AREA
1169
HEIGHT
570
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
88
AREA
414
HEIGHT
289
12-Jul-2024
11:38
s
zaid



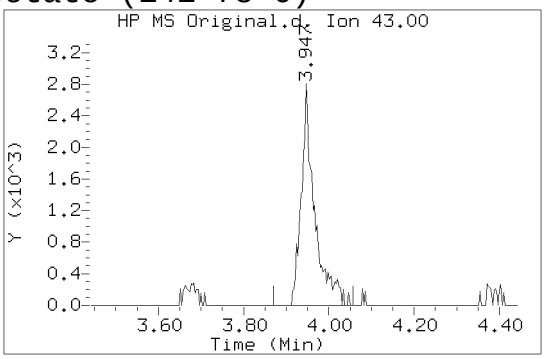
AFTER
MASS
88
AREA
414
HEIGHT
289
12-Jul-2024
11:38
s
zaid



Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061502.D
Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

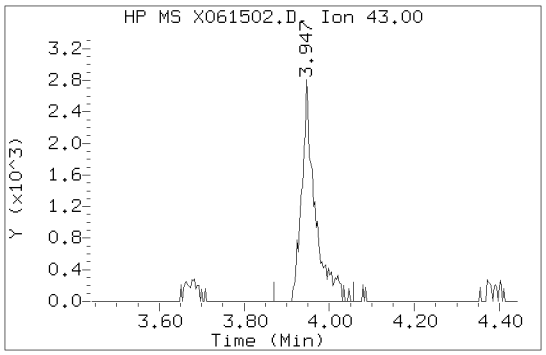
Ethyl Acetate (141-78-6)

BEFORE
MASS
43
AREA
6119
HEIGHT
2807
12-Jul-2024
11:38
s
zaid

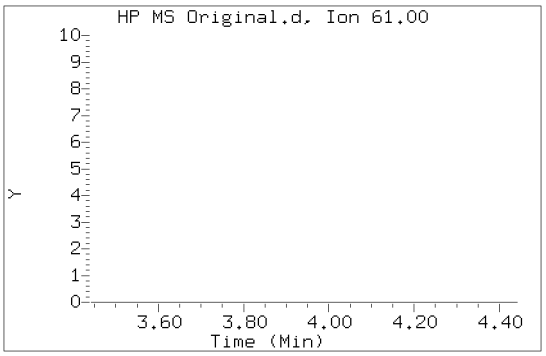


Reason Code:

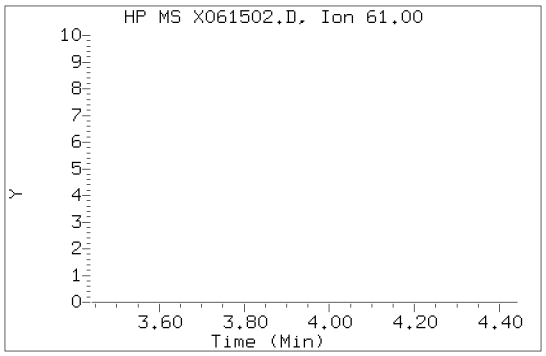
AFTER
MASS
43
AREA
6119
HEIGHT
2807
12-Jul-2024
11:38
s
zaid



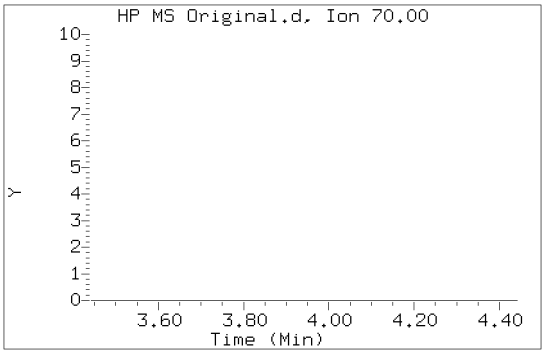
BEFORE
MASS
61
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



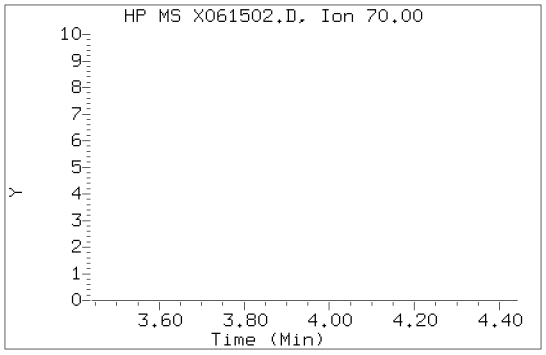
AFTER
MASS
61
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
70
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



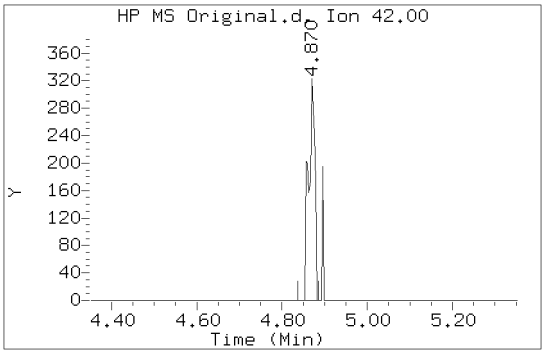
AFTER
MASS
70
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



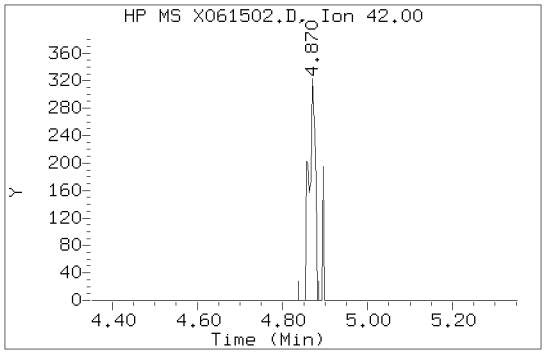
Tetrahydrofuran (109-99-9)

Reason Code:

BEFORE
MASS
42
AREA
337
HEIGHT
323
12-Jul-2024
11:38
s
zaid



AFTER
MASS
42
AREA
337
HEIGHT
323
12-Jul-2024
11:38
s
zaid



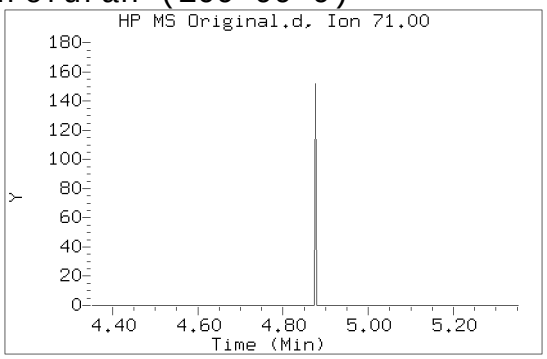
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061502.D
Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

Tetrahydrofuran (109-99-9)

Reason Code:

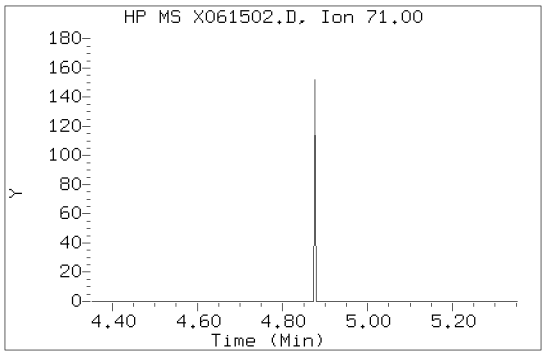
BEFORE

MASS
71
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
71
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

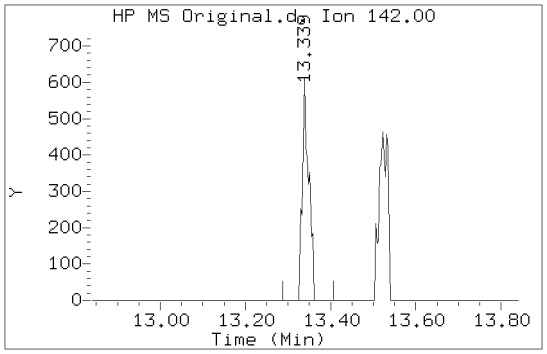


2-Methylnaphthalene (91-57-6)

Reason Code:

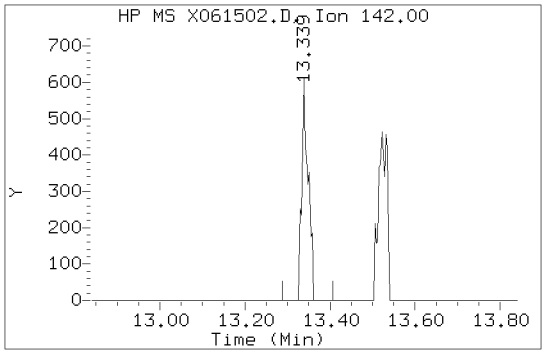
BEFORE

MASS
142
AREA
650
HEIGHT
610
12-Jul-2024
11:38
s
zaid



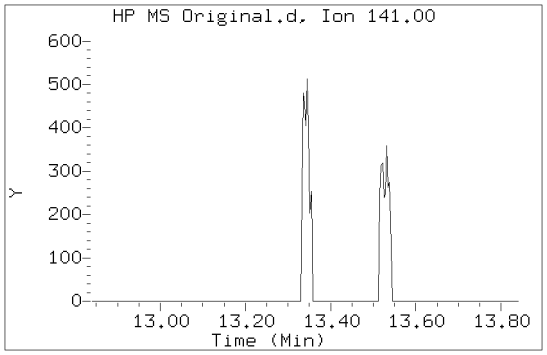
AFTER

MASS
142
AREA
650
HEIGHT
610
12-Jul-2024
11:38
s
zaid



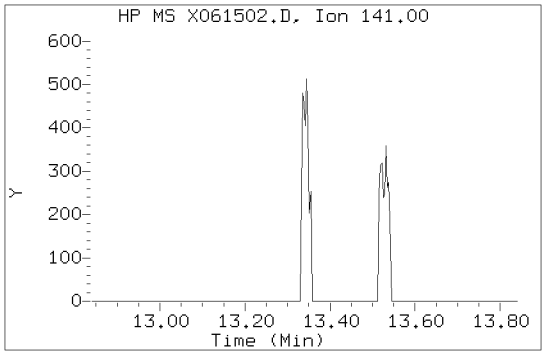
BEFORE

MASS
141
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



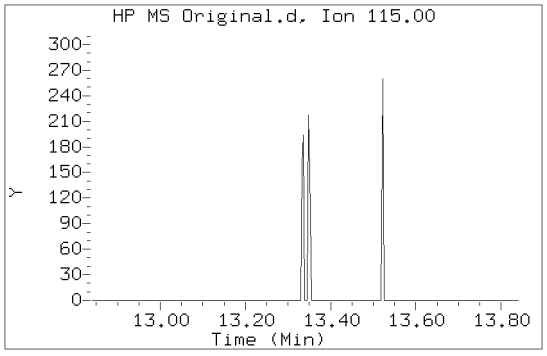
AFTER

MASS
141
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



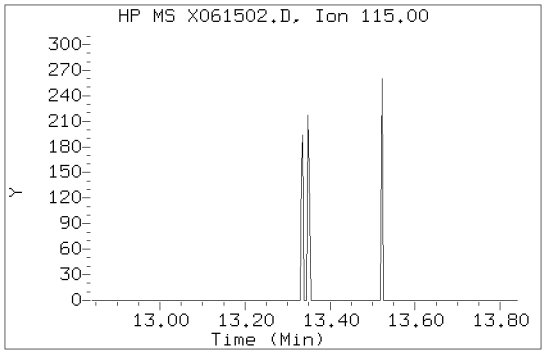
BEFORE

MASS
115
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
115
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

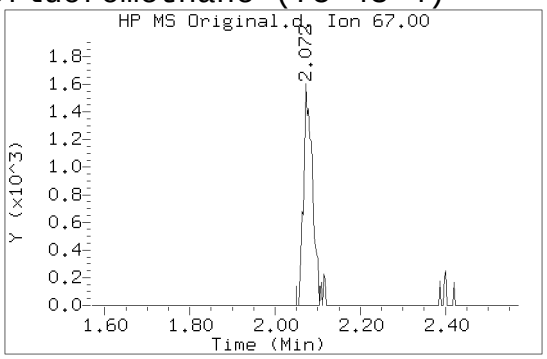


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061502.D
Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

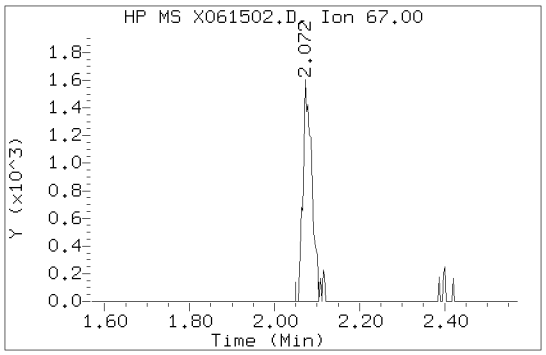
Dichlorofluoromethane (75-43-4)

Reason Code:

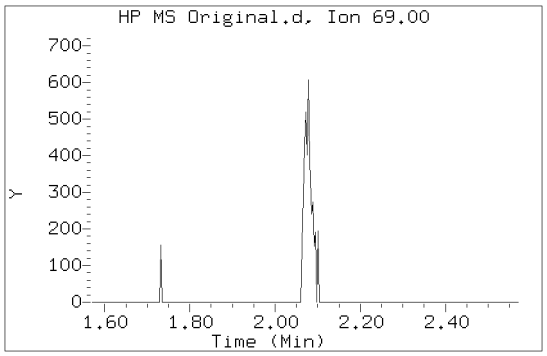
BEFORE
MASS
67
AREA
2316
HEIGHT
1604
12-Jul-2024
11:38
s
zaid



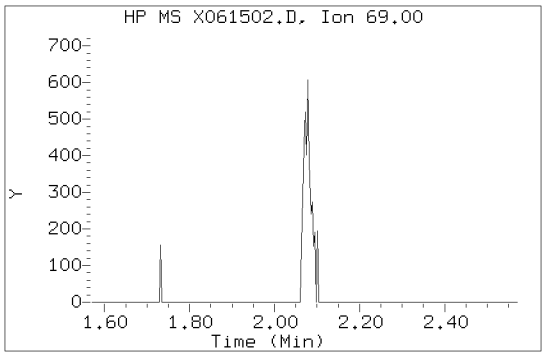
AFTER
MASS
67
AREA
2316
HEIGHT
1604
12-Jul-2024
11:38
s
zaid



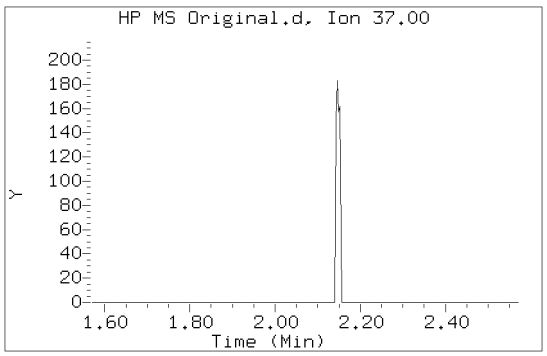
BEFORE
MASS
69
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



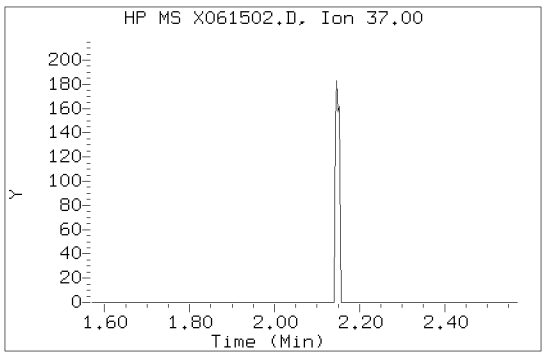
AFTER
MASS
69
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
37
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



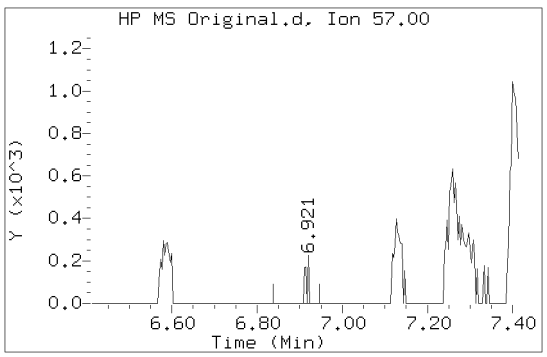
AFTER
MASS
37
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



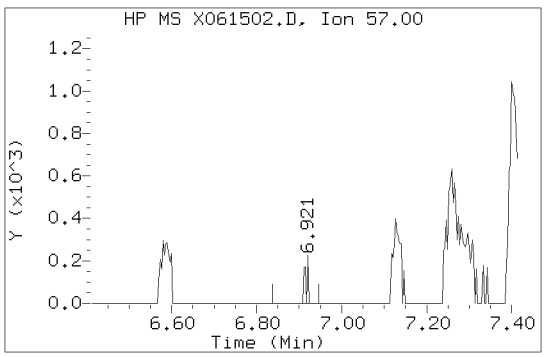
Epichlorohydrin (106-89-8)

Reason Code:

BEFORE
MASS
57
AREA
109
HEIGHT
225
12-Jul-2024
11:38
s
zaid



AFTER
MASS
57
AREA
109
HEIGHT
225
12-Jul-2024
11:38
s
zaid



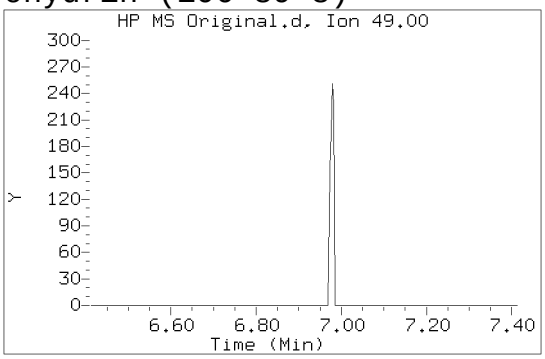
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061502.D
Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

Epichlorohydrin (106-89-8)

Reason Code:

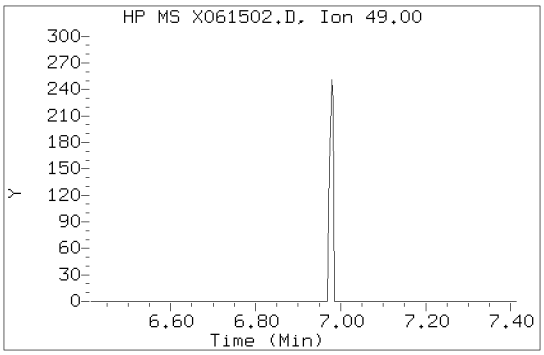
BEFORE

MASS
49
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
49
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

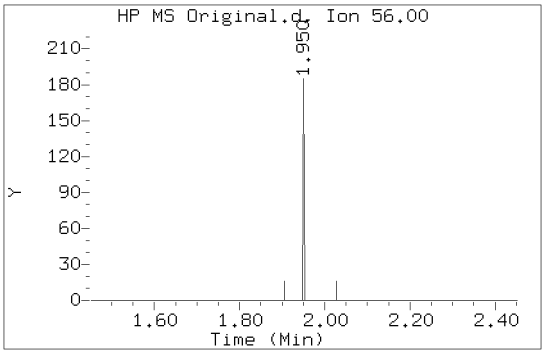


Isobutylene (115-11-7)

Reason Code:

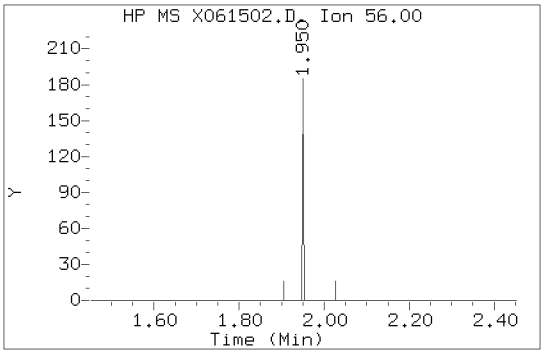
BEFORE

MASS
56
AREA
35
HEIGHT
185
12-Jul-2024
11:38
s
zaid



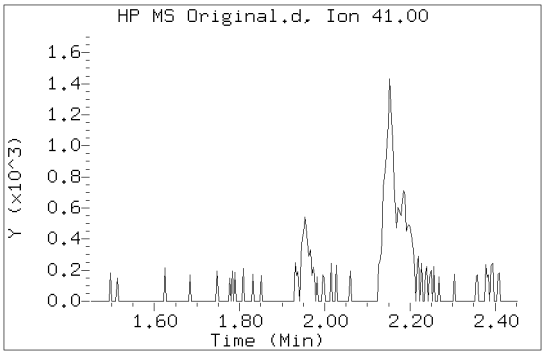
AFTER

MASS
56
AREA
35
HEIGHT
185
12-Jul-2024
11:38
s
zaid



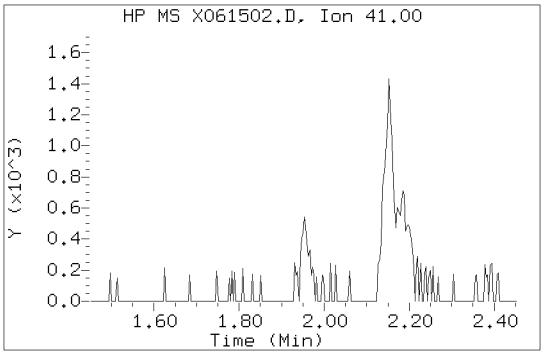
BEFORE

MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



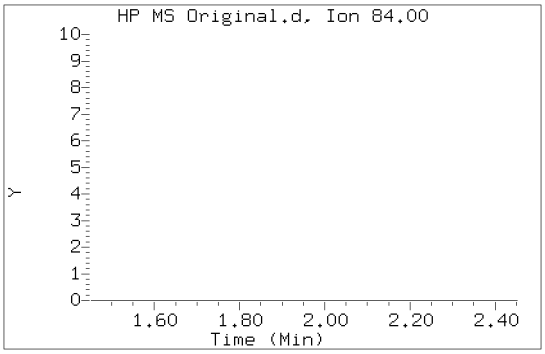
AFTER

MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



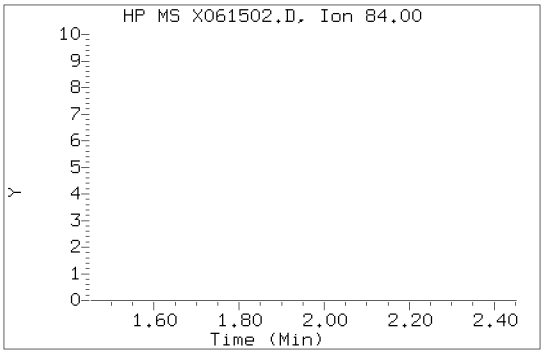
BEFORE

MASS
84
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
84
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

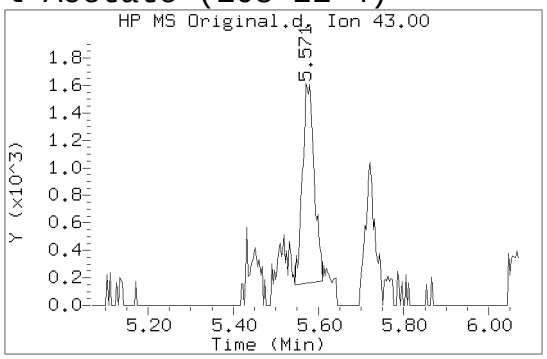


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061502.D
Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

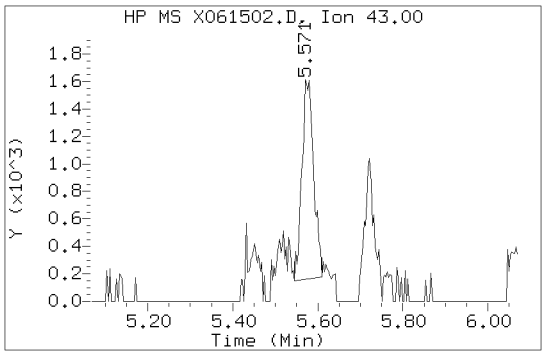
Isopropyl Acetate (108-21-4)

Reason Code:

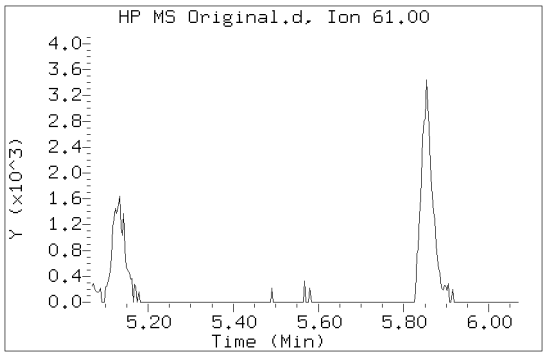
BEFORE
MASS
43
AREA
2765
HEIGHT
1452
12-Jul-2024
11:38
s
zaid



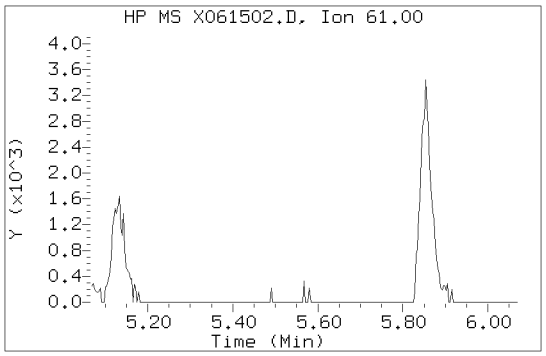
AFTER
MASS
43
AREA
2765
HEIGHT
1452
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
61
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



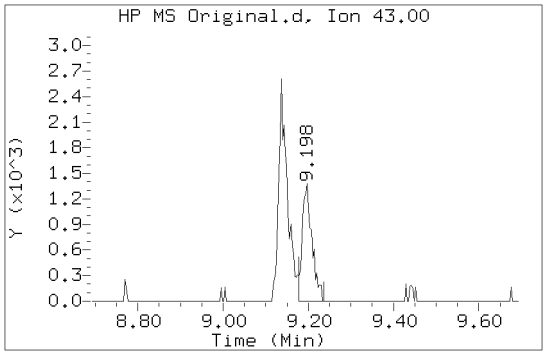
AFTER
MASS
61
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



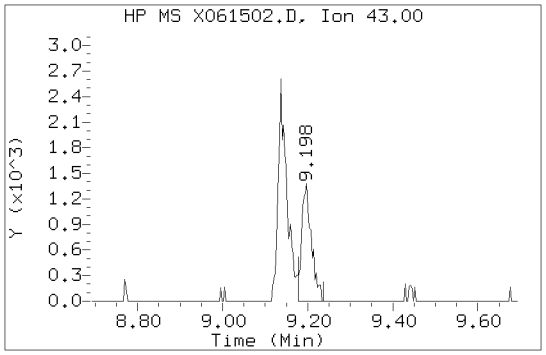
n-Amyl acetate (628-63-7)

Reason Code:

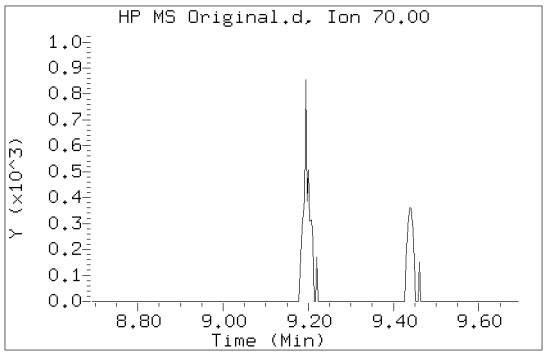
BEFORE
MASS
43
AREA
2202
HEIGHT
1380
12-Jul-2024
11:38
s
zaid



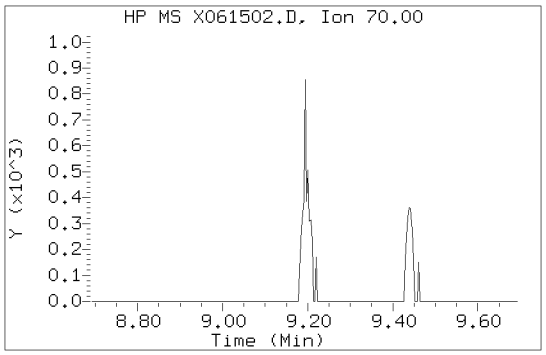
AFTER
MASS
43
AREA
2202
HEIGHT
1380
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
70
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER
MASS
70
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



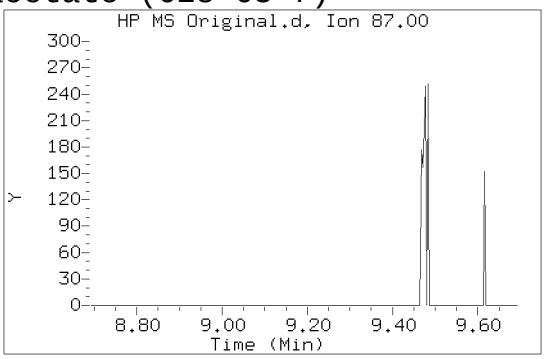
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061502.D
Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

n-Amyl acetate (628-63-7)

Reason Code:

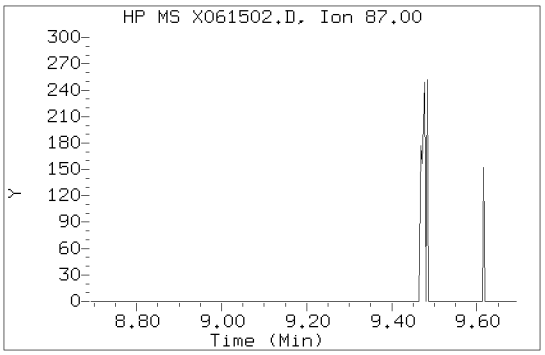
BEFORE

MASS
87
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
87
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

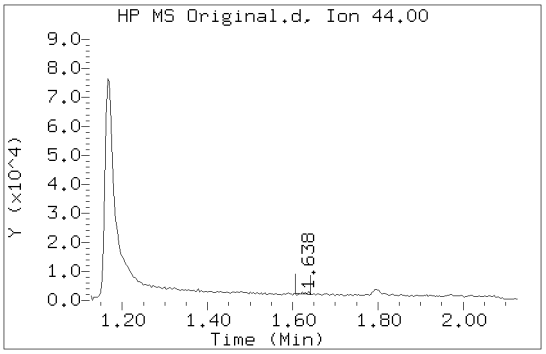


Acetaldehyde (75-07-0)

Reason Code:

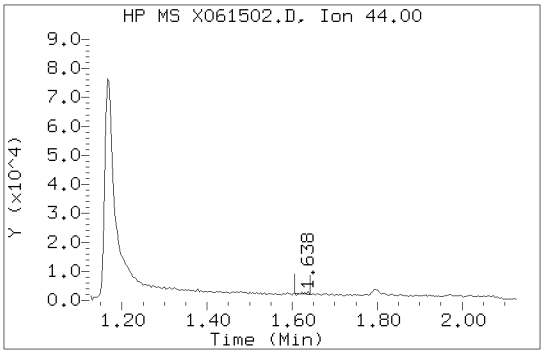
BEFORE

MASS
44
AREA
418
HEIGHT
998
12-Jul-2024
11:38
s
zaid



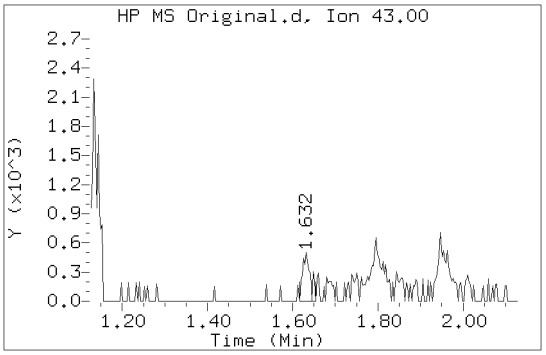
AFTER

MASS
44
AREA
418
HEIGHT
998
12-Jul-2024
11:38
s
zaid



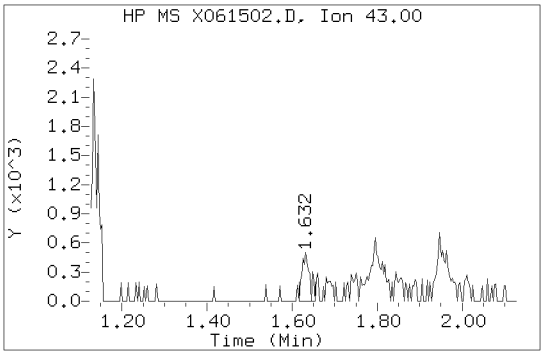
BEFORE

MASS
43
AREA
643
HEIGHT
500
12-Jul-2024
11:38
s
zaid



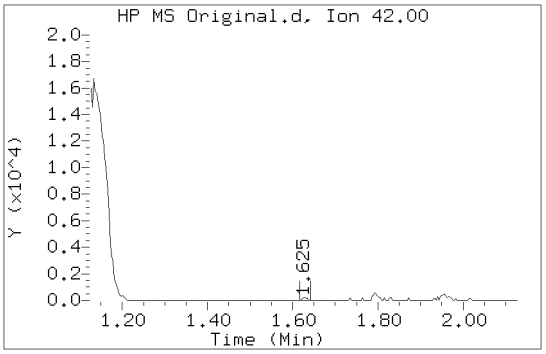
AFTER

MASS
43
AREA
643
HEIGHT
500
12-Jul-2024
11:38
s
zaid



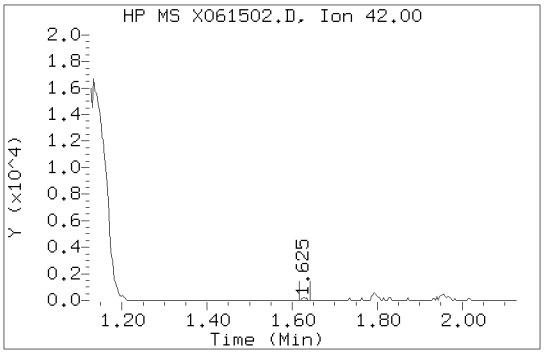
BEFORE

MASS
42
AREA
165
HEIGHT
204
12-Jul-2024
11:38
s
zaid



AFTER

MASS
42
AREA
165
HEIGHT
204
12-Jul-2024
11:38
s
zaid

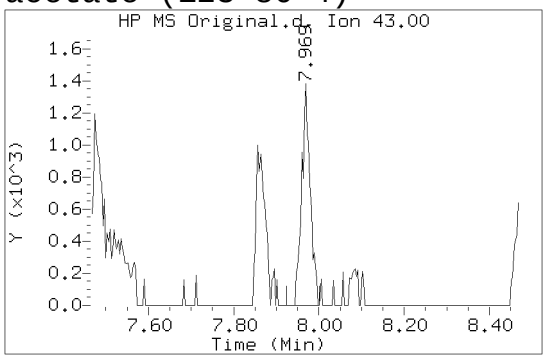


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061502.D
Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

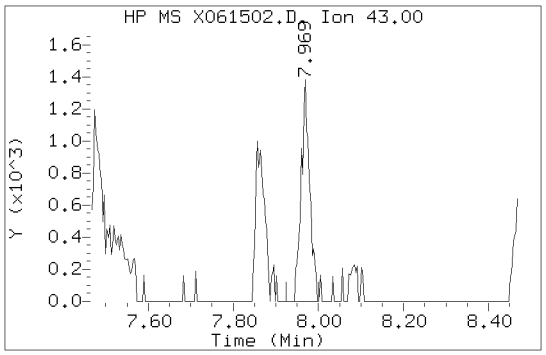
n-Butyl acetate (123-86-4)

Reason Code:

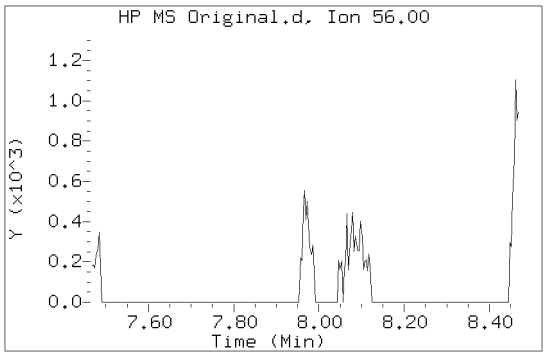
BEFORE
MASS
43
AREA
1945
HEIGHT
1382
12-Jul-2024
11:38
s
zaid



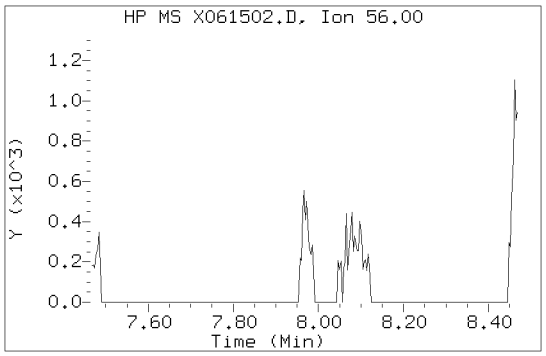
AFTER
MASS
43
AREA
1945
HEIGHT
1382
12-Jul-2024
11:38
s
zaid



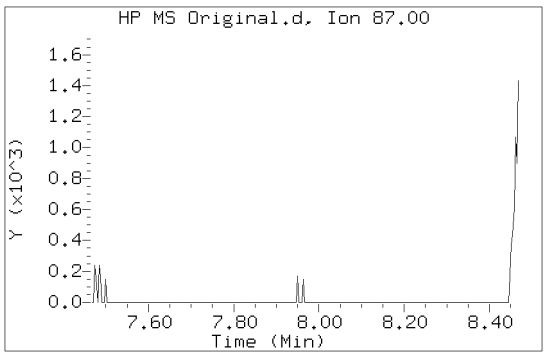
BEFORE
MASS
56
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



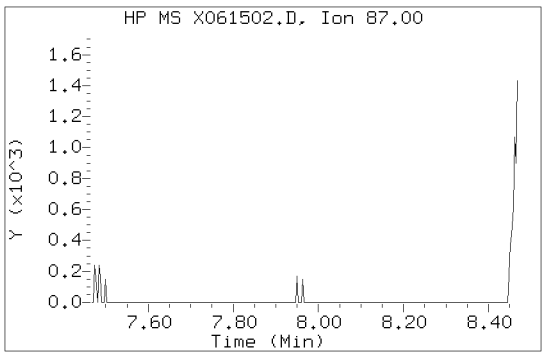
AFTER
MASS
56
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
87
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



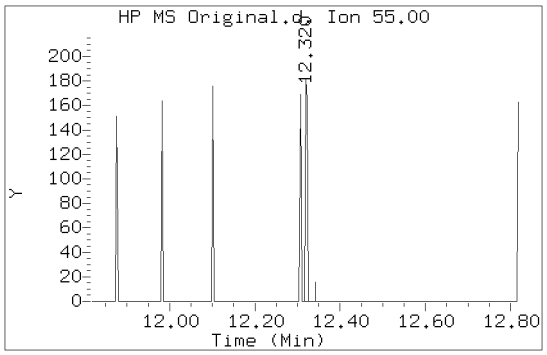
AFTER
MASS
87
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



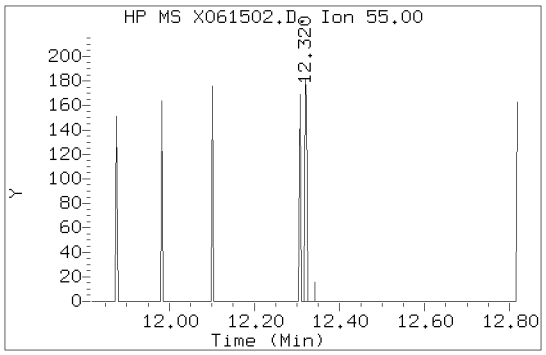
2-Etyhlhexyl Acrylate (103-11-7)

Reason Code:

BEFORE
MASS
55
AREA
66
HEIGHT
181
12-Jul-2024
11:38
s
zaid



AFTER
MASS
55
AREA
66
HEIGHT
181
12-Jul-2024
11:38
s
zaid



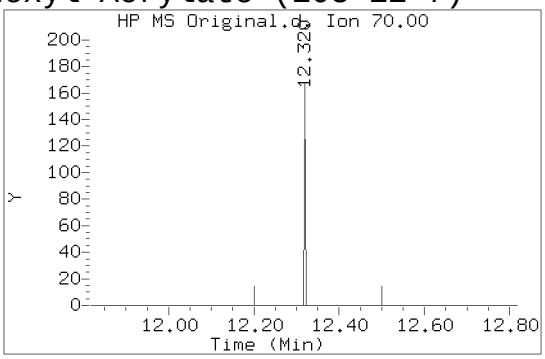
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061502.D
Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

2-Etyhlhexyl Acrylate (103-11-7)

Reason Code:

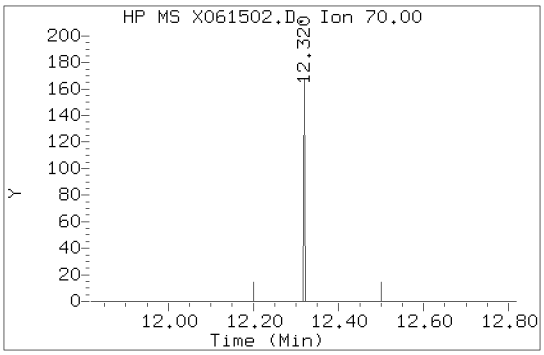
BEFORE

MASS
70
AREA
32
HEIGHT
167
12-Jul-2024
11:38
s
zaid



AFTER

MASS
70
AREA
32
HEIGHT
167
12-Jul-2024
11:38
s
zaid

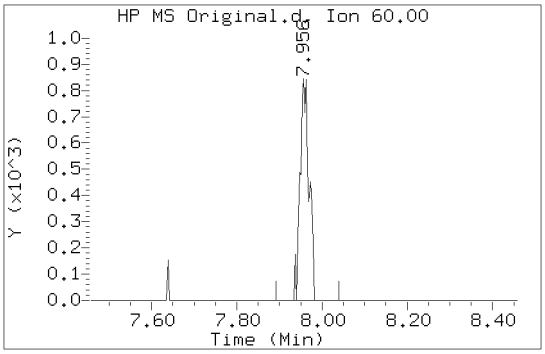


Tetrahydrothiophene (110-01-0)

Reason Code:

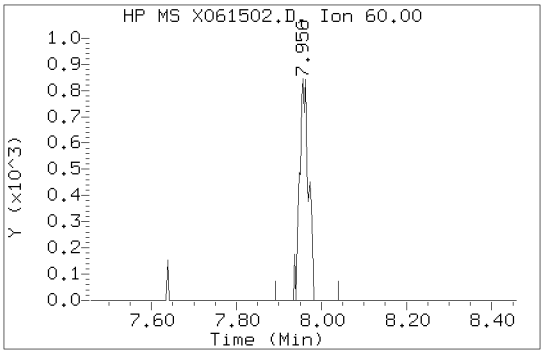
BEFORE

MASS
60
AREA
1247
HEIGHT
845
12-Jul-2024
11:38
s
zaid



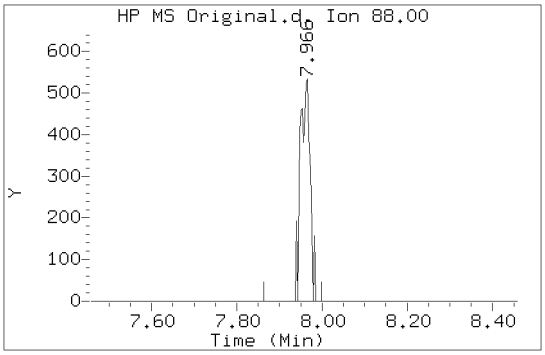
AFTER

MASS
60
AREA
1247
HEIGHT
845
12-Jul-2024
11:38
s
zaid



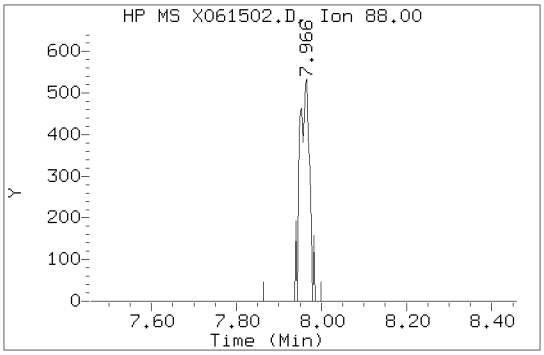
BEFORE

MASS
88
AREA
858
HEIGHT
534
12-Jul-2024
11:38
s
zaid



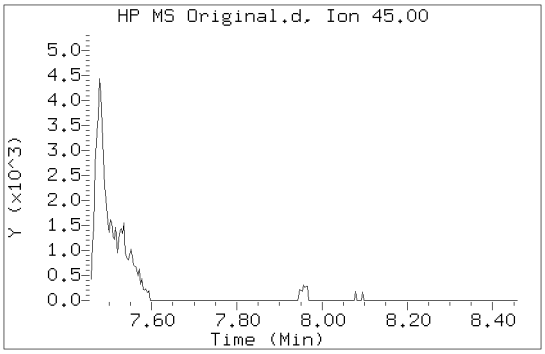
AFTER

MASS
88
AREA
858
HEIGHT
534
12-Jul-2024
11:38
s
zaid



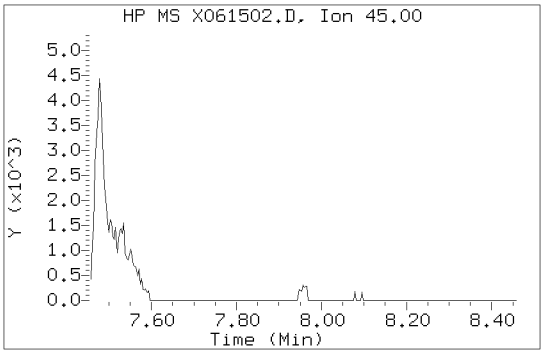
BEFORE

MASS
45
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
45
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

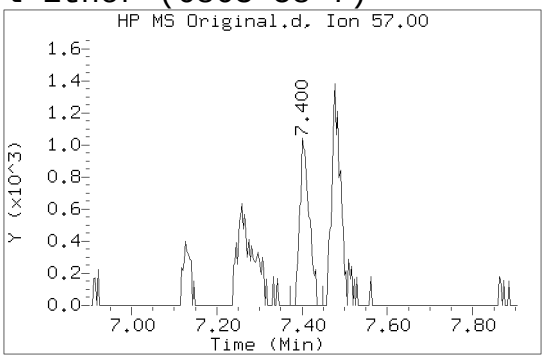


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061502.D
Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

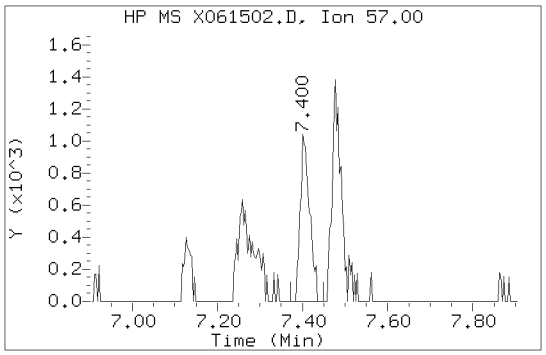
sec-Butyl Ether (6863-58-7)

Reason Code:

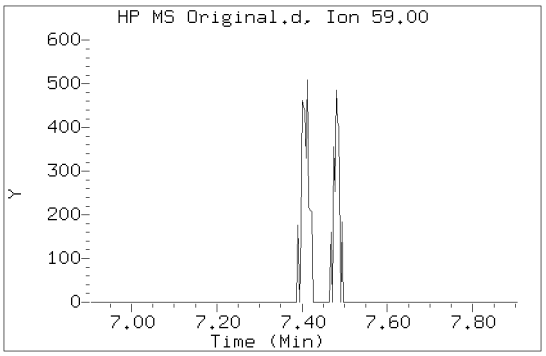
BEFORE
MASS
57
AREA
1596
HEIGHT
1044
12-Jul-2024
11:38
s
zaid



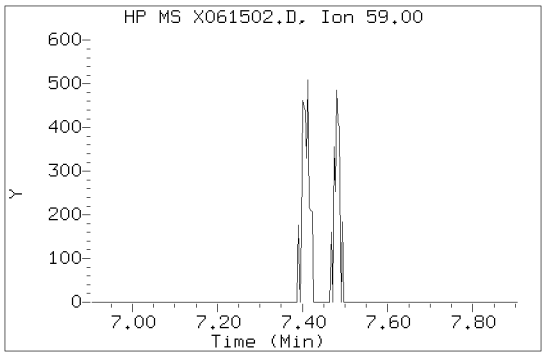
AFTER
MASS
57
AREA
1596
HEIGHT
1044
12-Jul-2024
11:38
s
zaid



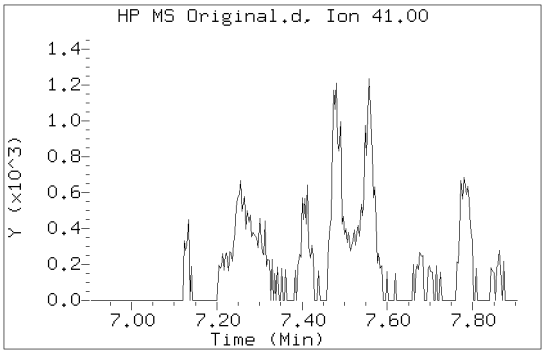
BEFORE
MASS
59
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



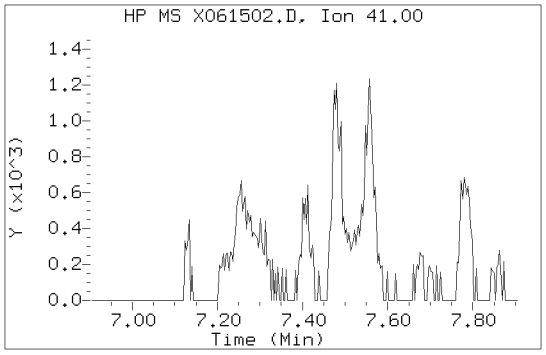
AFTER
MASS
59
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



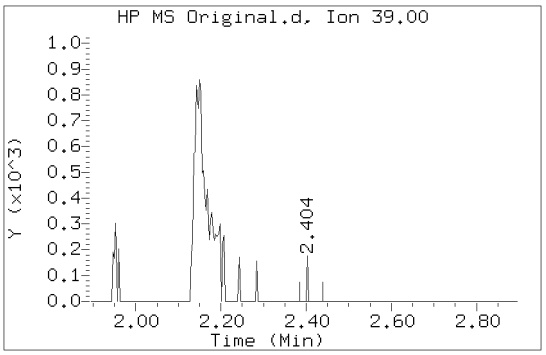
AFTER
MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



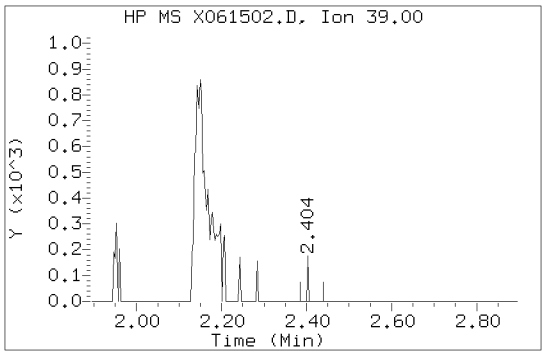
Isoprene (78-79-5)

Reason Code:

BEFORE
MASS
39
AREA
34
HEIGHT
177
12-Jul-2024
11:38
s
zaid



AFTER
MASS
39
AREA
34
HEIGHT
177
12-Jul-2024
11:38
s
zaid



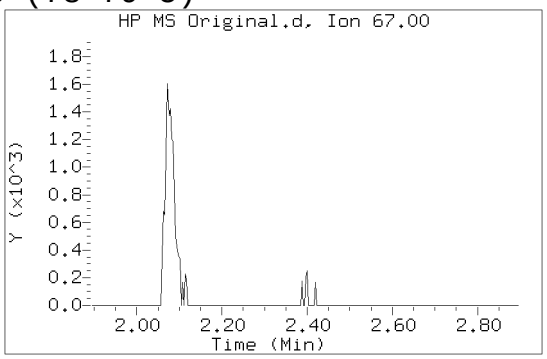
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061502.D
Inj Date : 15-JUN-2024 14:01
InstruID : voa7.i
LabSampID : VSTD00.5

Isoprene (78-79-5)

Reason Code:

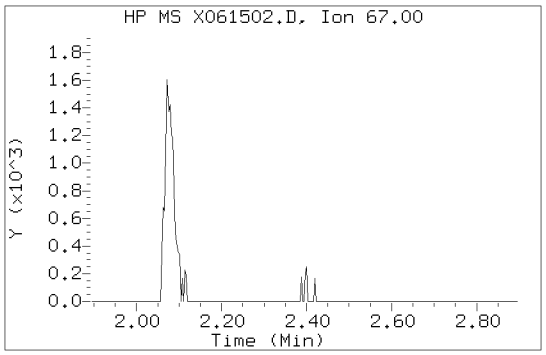
BEFORE

MASS
67
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



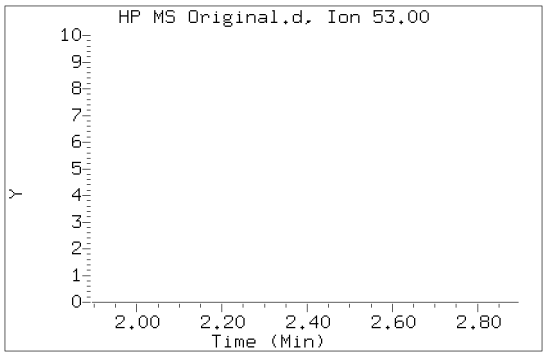
AFTER

MASS
67
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



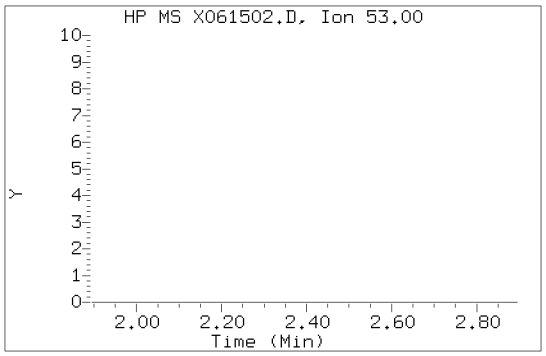
BEFORE

MASS
53
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
53
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

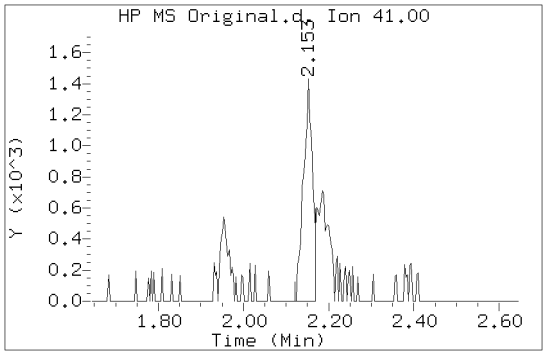


2-Chloropropene (557-98-2)

Reason Code:

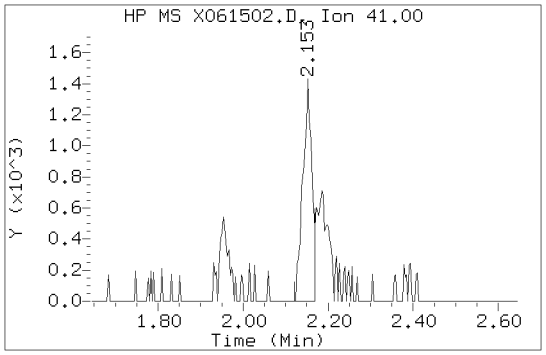
BEFORE

MASS
41
AREA
2105
HEIGHT
1431
12-Jul-2024
11:38
s
zaid



AFTER

MASS
41
AREA
2105
HEIGHT
1431
12-Jul-2024
11:38
s
zaid



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061503.D Page 1
Report Date: 12-Jul-2024 11:38

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061503.D
Lab Smp Id: VSTD001 Client Smp ID: VSTD001
Inj Date : 15-JUN-2024 14:24
Operator : AP Inst ID: voa7.i
Smp Info : VSTD001;VSTD001;1;2
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240615.b\8260W.m
Meth Date : 12-Jul-2024 11:38 voa7.i Quant Type: ISTD
Cal Date : 15-JUN-2024 14:01 Cal File: X061502.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	5.129	5.129	(1.000)	122813	50.0000	
2	Dichlorodifluoromethane	85	1.294	1.294	(0.252)	945	1.00000	0.37(a)
159	Dichlorofluoromethane	67	2.072	2.072	(0.404)	2496	1.00000	0.97(aM)
3	Chloromethane	50	1.445	1.445	(0.282)	2511	1.00000	0.37(a)
5	Vinyl Chloride	62	1.535	1.535	(0.299)	1452	1.00000	0.70(a)
7	Chloroethane	64	1.901	1.901	(0.371)	994	1.00000	0.53(a)
11	1,1-Dichloroethene	96	2.589	2.589	(0.505)	872	1.00000	0.84(a)
12	Isobutyl Alcohol	43	5.573	5.573	(1.086)	5734	20.0000	9.97(a)
13	Acetonitrile	39	2.956	2.956	(0.576)	2072	10.0000	4.70(a)
15	Iodomethane	142	2.744	2.744	(0.535)	1727	2.00000	4.88(M)
16	Acrylonitrile	53	3.384	3.384	(0.660)	891	2.00000	1.15(a)
17	Methylene Chloride	84	3.097	3.097	(0.604)	3218	1.00000	0.48(a)
18	Methyl tert-butyl ether	73	3.390	3.390	(0.661)	3682	1.00000	1.33
19	Carbon Disulfide	76	2.795	2.795	(0.545)	7853	2.00000	1.45(a)
20	trans-1,2-Dichloroethene	96	3.377	3.377	(0.658)	1186	1.00000	0.63(a)
22	1,1-Dichloroethane	63	3.863	3.863	(0.753)	2823	1.00000	0.97(Ta)
23	Chloroprene	53	3.969	3.969	(0.774)	1900	1.00000	0.79(a)
24	2-Butanone	43	4.599	4.599	(0.897)	2851	2.00000	0.82(a)
25	Methacrylonitrile	41	2.149	2.149	(0.419)	1634	1.00000	0.79(a)
26	2,2-Dichloropropane	77	4.535	4.535	(0.884)	2018	1.00000	0.82(a)

27 cis-1,2-Dichloroethene	96	4.541	4.541 (0.885)	1560	1.00000	0.54(a)
28 Chloroform	83	4.901	4.901 (0.955)	3399	1.00000	0.52(a)

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061503.D Page 2
Report Date: 12-Jul-2024 11:38

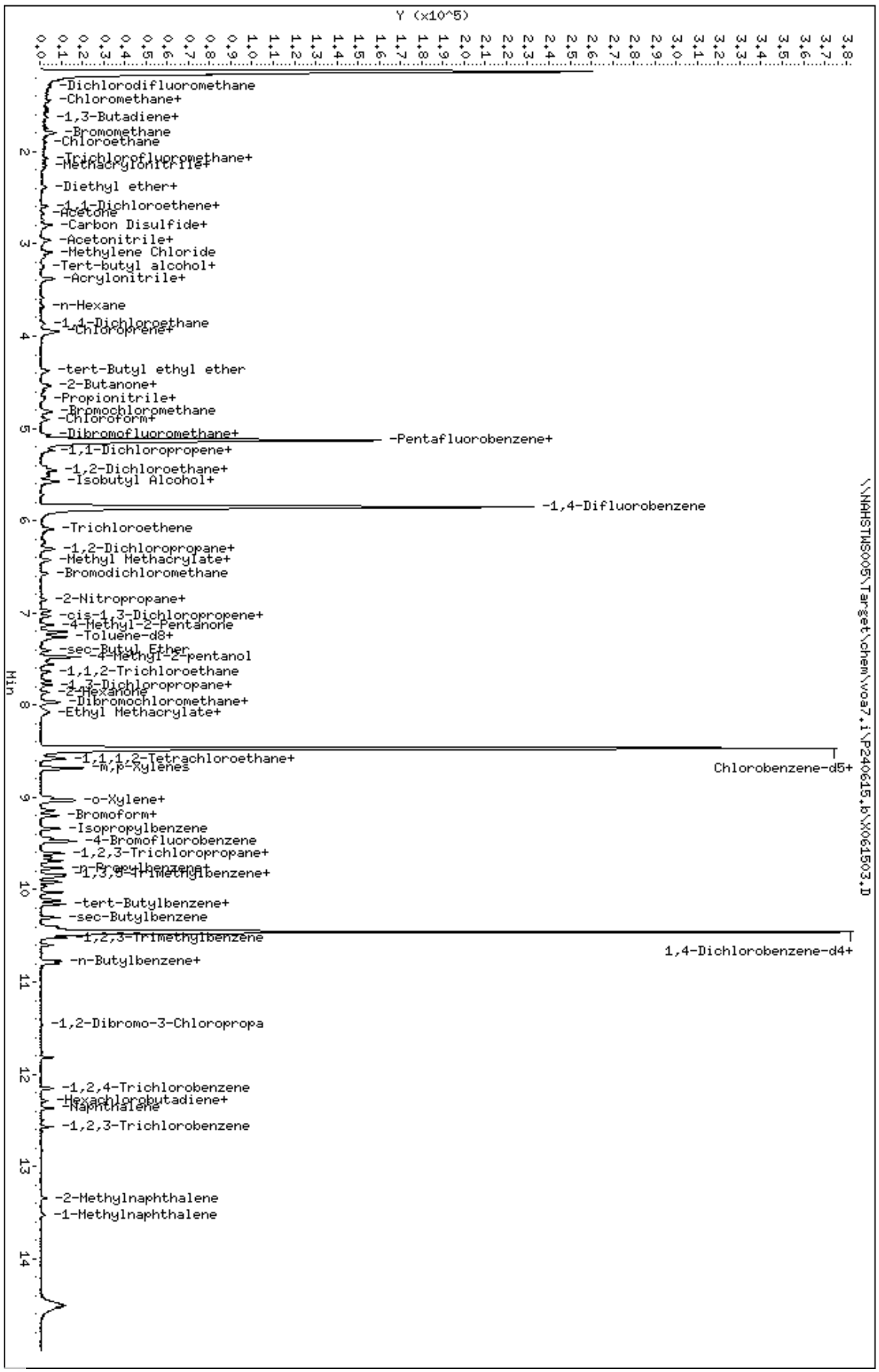
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	29 Bromochloromethane	128	4.805	4.805	(0.937)	808	1.00000	0.72(aM)
$	30 Dibromofluoromethane	113	5.075	5.075	(0.989)	1705	1.00000	0.24(a)
	31 1,1,1-Trichloroethane	97	5.072	5.072	(0.989)	1878	1.00000	0.80(a)
	32 1,1-Dichloropropene	75	5.236	5.236	(0.895)	1749	1.00000	1.00
	33 1,2-Dichloroethane	62	5.499	5.499	(0.940)	2750	1.00000	0.83(a)
	34 Carbon Tetrachloride	117	5.232	5.232	(0.894)	1790	1.00000	1.80
$	35 1,2-Dichloroethane-d4	65	5.419	5.419	(1.056)	2415	1.00000	0.56(a)
*	36 1,4-Difluorobenzene	114	5.853	5.853	(1.000)	201138	50.0000	
	37 Benzene	78	5.457	5.457	(0.932)	6318	1.00000	0.70(a)
	38 Trichloroethene	130	6.091	6.091	(1.041)	1475	1.00000	0.92(a)
	39 Bromodichloromethane	83	6.573	6.573	(1.123)	2334	1.00000	1.04(M)
	41 2-Chloroethylvinyl ether	63	6.853	6.853	(1.171)	1519	2.00000	1.42(aM)
	42 1,2-Dichloropropane	63	6.309	6.309	(1.078)	1795	1.00000	0.74(a)
	43 2-Nitropropane	43	6.801	6.801	(1.326)	593	1.00000	1.68(a)
	44 Dibromomethane	93	6.428	6.428	(1.098)	1021	1.00000	1.11
	45 4-Methyl-2-Pentanone	43	7.129	7.129	(0.842)	4091	2.00000	1.06(a)
	46 cis-1,3-Dichloropropene	75	6.975	6.975	(1.192)	2713	1.00000	1.64
*	47 Chlorobenzene-d5	117	8.467	8.467	(1.000)	190741	50.0000	
$	48 Toluene-d8	98	7.207	7.207	(0.851)	8117	1.00000	0.38(a)
	49 Ethyl Methacrylate	69	8.078	8.078	(1.380)	2257	1.00000	1.35
	50 Toluene	91	7.264	7.264	(0.858)	6541	1.00000	0.54(a)
	51 trans-1,3-Dichloropropene	75	6.975	6.975	(1.192)	2713	1.00000	1.64
	53 1,1,2-Trichloroethane	83	7.637	7.637	(0.902)	1325	1.00000	0.41(a)
	54 1,3-Dichloropropane	76	7.779	7.779	(0.919)	3036	1.00000	0.59(a)
	55 Dibromochloromethane	129	7.972	7.972	(0.942)	1658	1.00000	1.06
	56 Tetrachloroethene	164	7.737	7.737	(0.914)	913	1.00000	0.76(a)
	57 1,2-Dibromoethane	107	8.071	8.071	(0.953)	1535	1.00000	0.47(a)
	59 Chlorobenzene	112	8.493	8.493	(1.003)	4359	1.00000	0.52(a)
	60 1,1,1,2-Tetrachloroethane	131	8.563	8.563	(1.011)	1575	1.00000	1.64
	61 Ethylbenzene	106	8.589	8.589	(1.014)	1961	1.00000	0.50(a)
	62 m,p-Xylenes	106	8.682	8.682	(1.025)	5521	2.00000	1.23(a)
	63 o-Xylene	106	9.020	9.020	(1.065)	2749	1.00000	0.46(a)
	64 Styrene	104	9.039	9.039	(1.068)	4857	1.00000	0.59(a)
	66 Bromoform	173	9.206	9.206	(1.087)	1015	1.00000	1.03(T)
	67 Isopropylbenzene	105	9.335	9.335	(1.103)	6133	1.00000	0.71(a)
	68 1,1,2,2-Tetrachloroethane	83	9.605	9.605	(0.919)	2231	1.00000	0.72(aM)
$	69 4-Bromofluorobenzene	95	9.470	9.470	(1.118)	5645	1.00000	1.21
*	70 1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	90448	50.0000	
	71 1,2,3-Trichloropropane	75	9.650	9.650	(0.923)	2623	1.00000	0.94(a)
	72 trans-1,4-Dichloro-2-butene	53	9.657	9.657	(1.140)	625	1.00000	1.67
	73 n-Propylbenzene	91	9.689	9.689	(0.926)	7684	1.00000	1.15
	74 Bromobenzene	156	9.602	9.602	(0.918)	1940	1.00000	1.12
	75 1,3,5-Trimethylbenzene	105	9.837	9.837	(0.941)	5830	1.00000	1.40
	76 2-Chlorotoluene	91	9.766	9.766	(0.934)	5439	1.00000	0.86(a)
	77 4-Chlorotoluene	91	9.856	9.856	(0.943)	6290	1.00000	1.03
	78 tert-Butylbenzene	119	10.110	10.110	(0.967)	4454	1.00000	0.88(a)
	79 1,2,4-Trimethylbenzene	105	10.158	10.158	(0.971)	5961	1.00000	1.10
	81 sec-Butylbenzene	105	10.300	10.300	(0.985)	5578	1.00000	1.19
	82 p-Isopropyltoluene	119	10.425	10.425	(0.997)	5195	1.00000	1.21
	83 1,3-Dichlorobenzene	146	10.406	10.406	(0.995)	3358	1.00000	1.11
	84 1,4-Dichlorobenzene	146	10.476	10.476	(1.002)	3741	1.00000	0.92(a)
	87 n-Butylbenzene	91	10.769	10.769	(1.030)	4888	1.00000	1.02

88	1,2-Dichlorobenzene	146	10.801	10.801 (1.033)	3305	1.00000	1.07
89	1,2-Dibromo-3-Chloropropane	75	11.467	11.467 (1.097)	284	1.00000	1.06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
90	1,2,4-Trichlorobenzene	180	12.155	12.155	(1.162)	2045	1.00000	1.99
91	Hexachlorobutadiene	225	12.287	12.287	(1.175)	674	1.00000	1.53
92	Naphthalene	128	12.370	12.370	(1.183)	4235	1.00000	1.09
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	1577	1.00000	1.11
146	Methyl acetate	43	2.814	2.814	(0.549)	346	1.00000	(aM)
138	Freon TF	101	2.586	2.586	(0.504)	573	1.00000	0.75(Ta)
139	Diethyl ether	59	2.377	2.377	(0.463)	965	1.00000	1.07
140	1,3-Butadiene	54	1.557	1.557	(0.304)	586	1.00000	1.46(a)
141	Cyclohexane	56	5.123	5.123	(0.999)	3665	1.00000	1.04(a)
147	Methylcyclohexane	83	6.252	6.252	(1.068)	447	1.00000	2.24(M)
133	Ethyl Acrylate	55	6.229	6.229	(1.214)	3026	1.00000	0.87(aM)
136	n-Hexane	57	3.679	3.679	(0.717)	594	1.00000	1.10
142	Tetrahydrofuran	42	4.872	4.872	(0.950)	607	2.00000	4.08(M)
148	Tert-butyl alcohol	59	3.255	3.255	(0.635)	2070	20.0000	22.83
151	4-Methyl-2-pentanol	45	7.477	7.477	(0.883)	10862	20.0000	15.50(a)
166	1,2,3-Trimethylbenzene	105	10.518	10.518	(1.006)	5701	1.00000	1.22
173	3,3-Dimethyl-1-butanol	57	8.062	8.062	(0.952)	3141	20.0000	29.75(M)
174	tert-Amyl methyl ether	73	5.576	5.576	(1.087)	4784	1.00000	1.10
175	tert-Butyl ethyl ether	59	4.377	4.377	(0.853)	4050	1.00000	0.96(a)
157	2-Methylnaphthalene	142	13.345	13.345	(1.276)	1457	1.00000	1.03
156	Diisopropyl ether	45	3.953	3.953	(0.771)	4669	1.00000	0.95(Ta)
171	1-Methylnaphthalene	142	13.531	13.531	(1.294)	1422	1.00000	1.13
130	Ethyl Acetate	43	3.943	3.943	(0.769)	10732	1.00000	1.39(aM)
176	tert-Amyl alcohol	59	5.515	5.515	(1.075)	2244	20.0000	6.84
160	Epichlorohydrin	57	6.907	6.907	(1.180)	318	4.00000	4.96
161	Butyl acrylate	55	9.001	9.001	(1.063)	3946	1.00000	1.46(a)
183	Isopropyl Acetate	43	5.573	5.573	(0.952)	4776	1.00000	0.59(aA)
184	n-Amyl acetate	43	9.190	9.190	(1.085)	4173	1.00000	1.86(aAM)
185	Acetaldehyde	44	1.628	1.628	(0.317)	1282	4.00000	2.32(aAM)
186	n-Butyl acetate	43	7.969	7.969	(0.941)	3629	1.00000	0.75(aAM)
187	2-Etyhlhexyl Acrylate	55	12.316	12.316	(1.178)	362	1.00000	3.78(aAM)
188	Tetrahydrothiophene	60	7.956	7.956	(0.940)	1726	1.00000	0.98(aAM)
189	sec-Butyl Ether	57	7.412	7.412	(0.875)	1835	1.00000	(aM)
190	Isoprene	39	2.400	2.400	(0.468)	194	1.00000	0.87(aAM)
191	2-Chloropropene	41	2.149	2.149	(0.419)	2312	1.00000	1.09(aAM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa7,i\P240615,b\X061503,D
Date : 15-JUN-2024 14:24
Client ID: VSTD001
Sample Info: VSTD001;VSTD001;1;2
Purge Volume: 5.0
Column phase: DB624

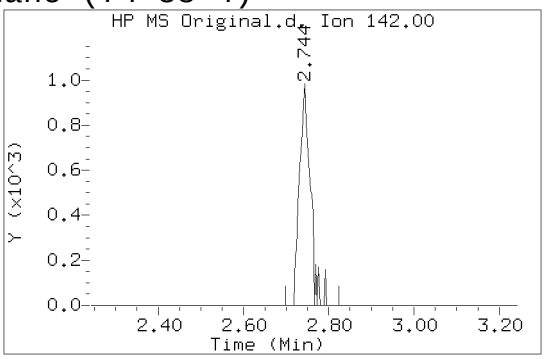
Instrument: voa7,i
Operator: AP
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061503.D
Inj Date : 15-JUN-2024 14:24
InstruID : voa7.i
LabSampID : VSTD001

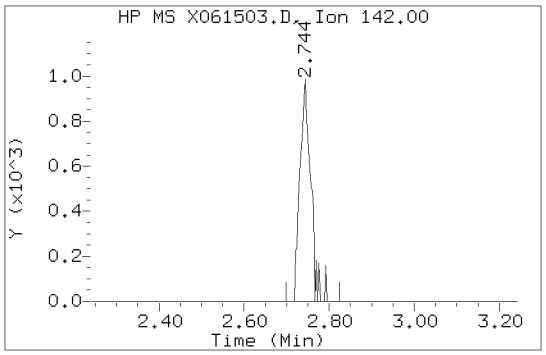
Iodomethane (74-88-4)

Reason Code:

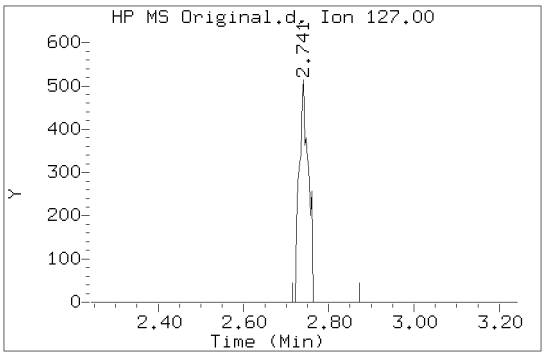
BEFORE
MASS
142
AREA
1727
HEIGHT
984
12-Jul-2024
11:38
s
zaid



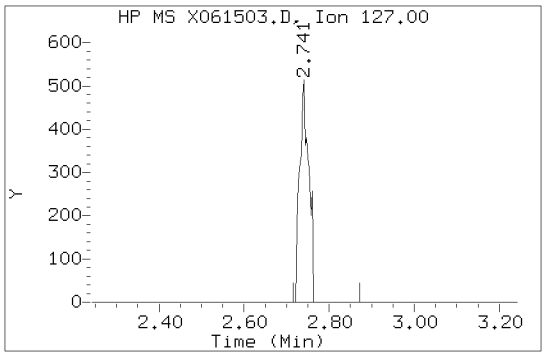
AFTER
MASS
142
AREA
1727
HEIGHT
984
12-Jul-2024
11:38
s
zaid



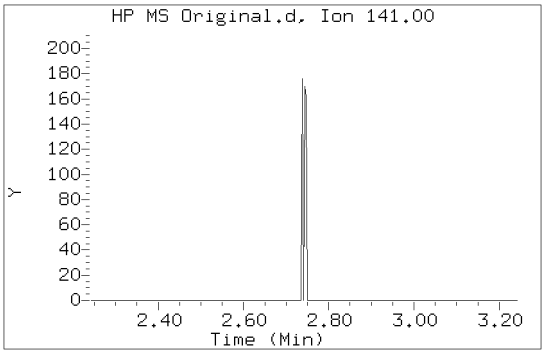
BEFORE
MASS
127
AREA
762
HEIGHT
514
12-Jul-2024
11:38
s
zaid



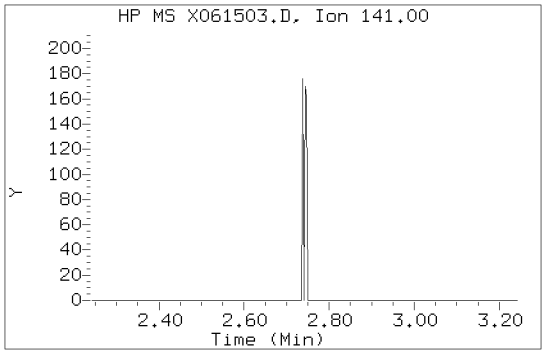
AFTER
MASS
127
AREA
762
HEIGHT
514
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
141
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



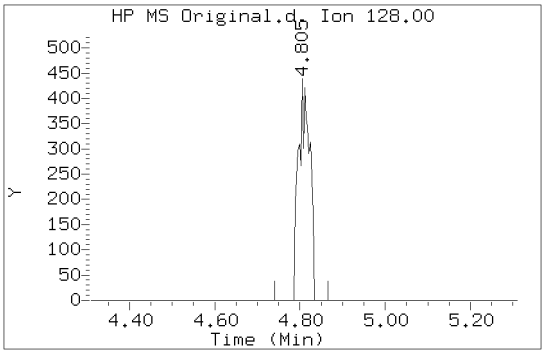
AFTER
MASS
141
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



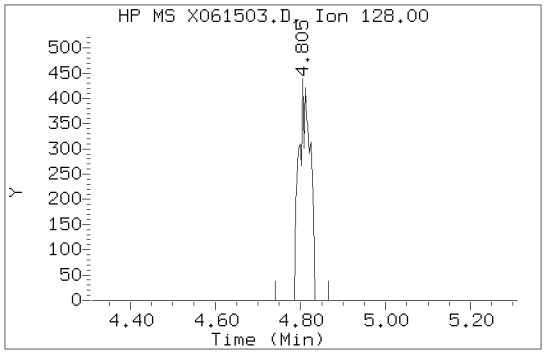
Bromochloromethane (74-97-5)

Reason Code:

BEFORE
MASS
128
AREA
808
HEIGHT
439
12-Jul-2024
11:38
s
zaid



AFTER
MASS
128
AREA
808
HEIGHT
439
12-Jul-2024
11:38
s
zaid

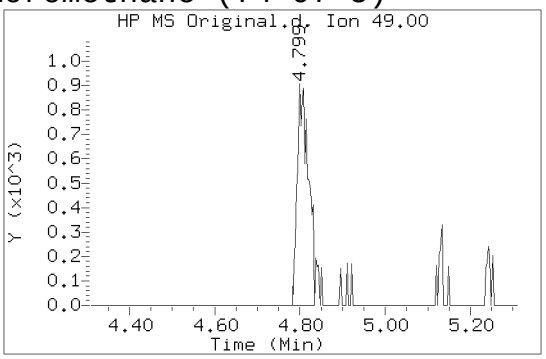


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061503.D
Inj Date : 15-JUN-2024 14:24
InstruID : voa7.i
LabSampID : VSTD001

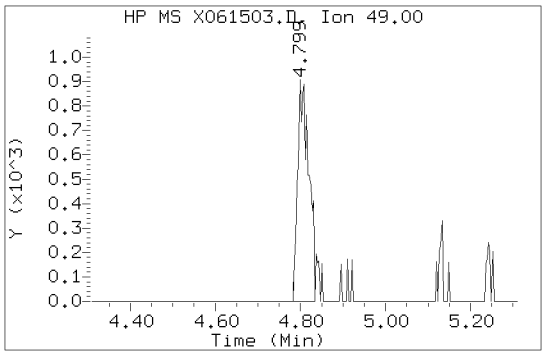
Bromochloromethane (74-97-5)

Reason Code:

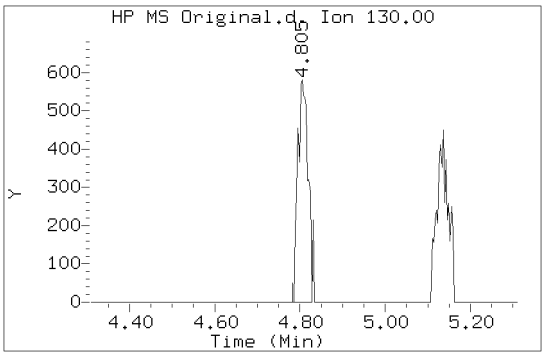
BEFORE
MASS
49
AREA
1635
HEIGHT
908
12-Jul-2024
11:38
s
zaid



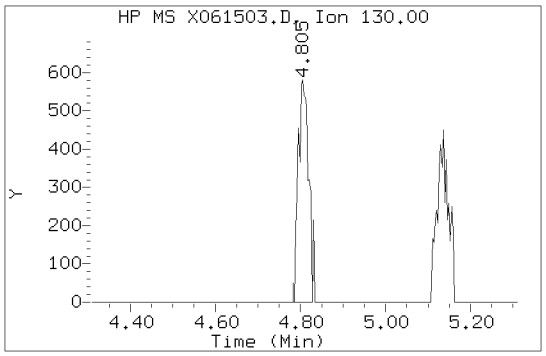
AFTER
MASS
49
AREA
1635
HEIGHT
908
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
130
AREA
956
HEIGHT
581
12-Jul-2024
11:38
s
zaid



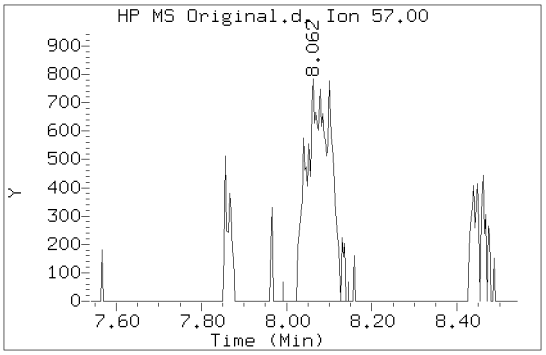
AFTER
MASS
130
AREA
956
HEIGHT
581
12-Jul-2024
11:38
s
zaid



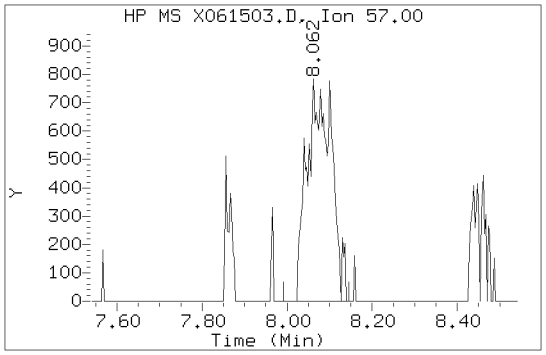
3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

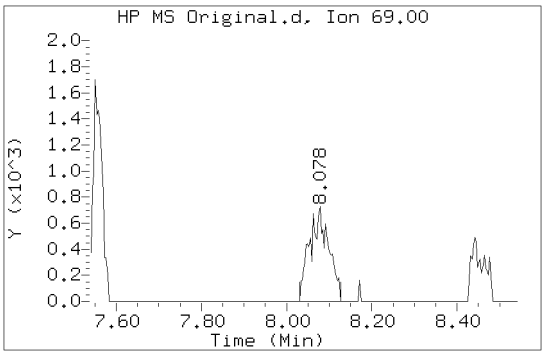
BEFORE
MASS
57
AREA
3141
HEIGHT
784
12-Jul-2024
11:38
s
zaid



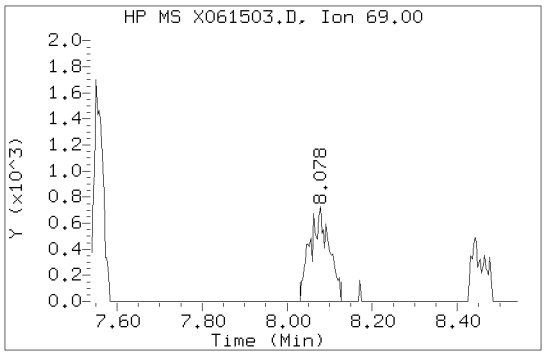
AFTER
MASS
57
AREA
3141
HEIGHT
784
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
69
AREA
2257
HEIGHT
728
12-Jul-2024
11:38
s
zaid



AFTER
MASS
69
AREA
2257
HEIGHT
728
12-Jul-2024
11:38
s
zaid



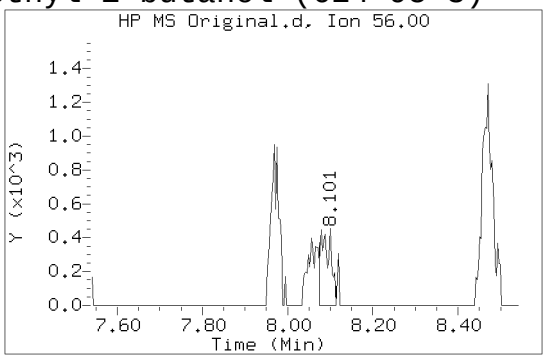
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061503.D
Inj Date : 15-JUN-2024 14:24
InstruID : voa7.i
LabSampID : VSTD001

3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

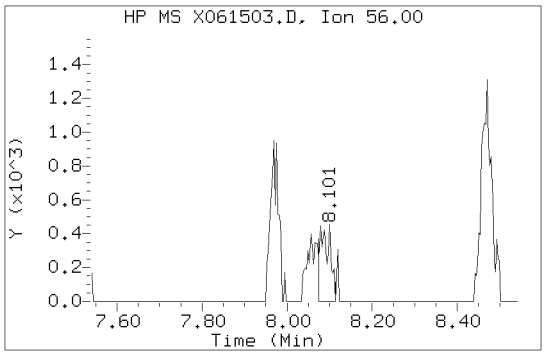
BEFORE

MASS
56
AREA
700
HEIGHT
454
12-Jul-2024
11:38
s
zaid



AFTER

MASS
56
AREA
700
HEIGHT
454
12-Jul-2024
11:38
s
zaid

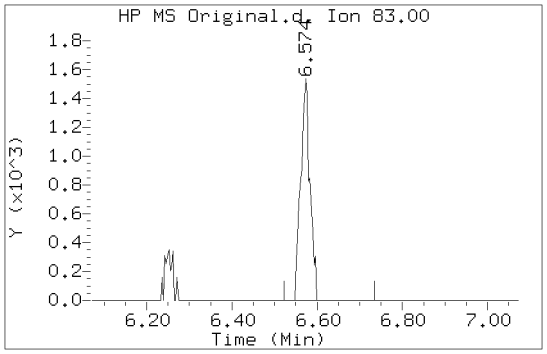


Bromodichloromethane (75-27-4)

Reason Code:

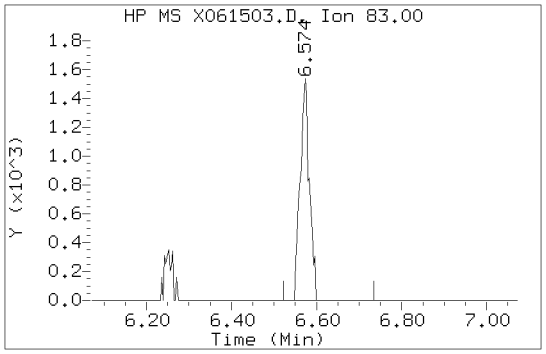
BEFORE

MASS
83
AREA
2334
HEIGHT
1538
12-Jul-2024
11:38
s
zaid



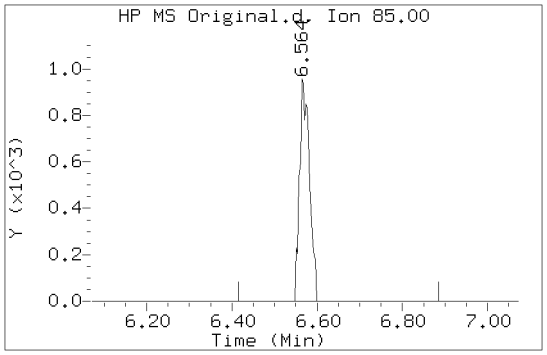
AFTER

MASS
83
AREA
2334
HEIGHT
1538
12-Jul-2024
11:38
s
zaid



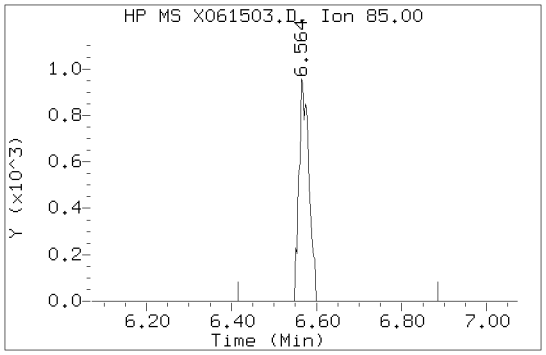
BEFORE

MASS
85
AREA
1560
HEIGHT
957
12-Jul-2024
11:38
s
zaid



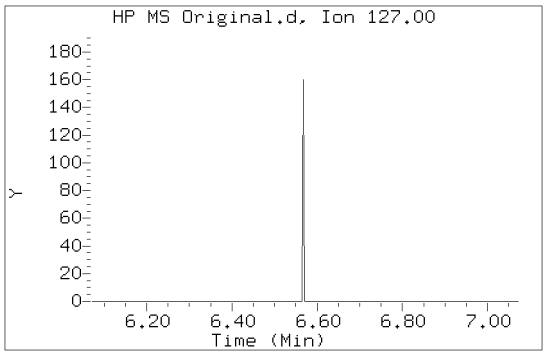
AFTER

MASS
85
AREA
1560
HEIGHT
957
12-Jul-2024
11:38
s
zaid



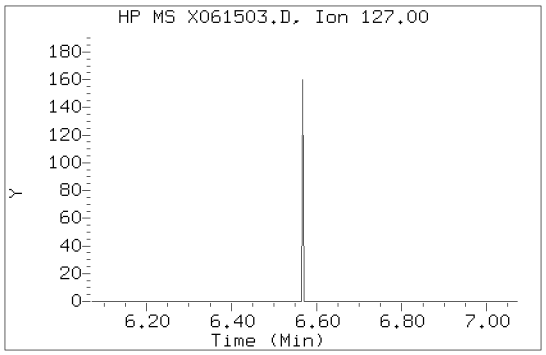
BEFORE

MASS
127
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
127
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

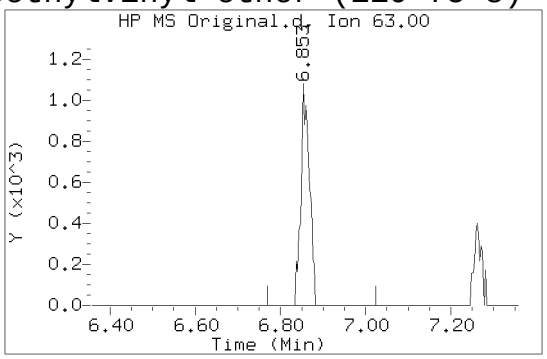


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061503.D
Inj Date : 15-JUN-2024 14:24
InstruID : voa7.i
LabSampID : VSTD001

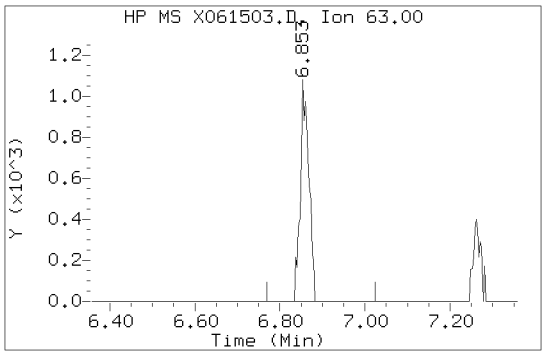
2-Chloroethylvinyl ether (110-75-8)

Reason Code:

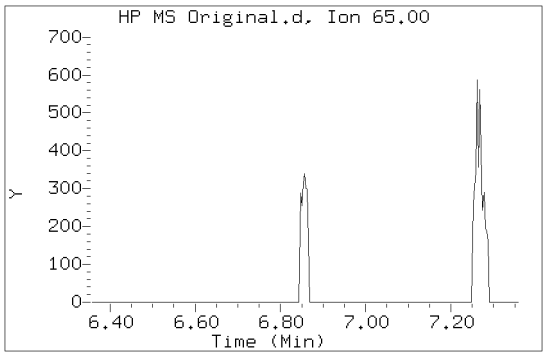
BEFORE
MASS
63
AREA
1519
HEIGHT
1080
12-Jul-2024
11:38
s
zaid



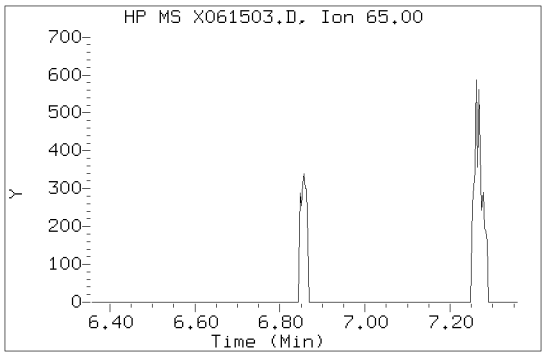
AFTER
MASS
63
AREA
1519
HEIGHT
1080
12-Jul-2024
11:38
s
zaid



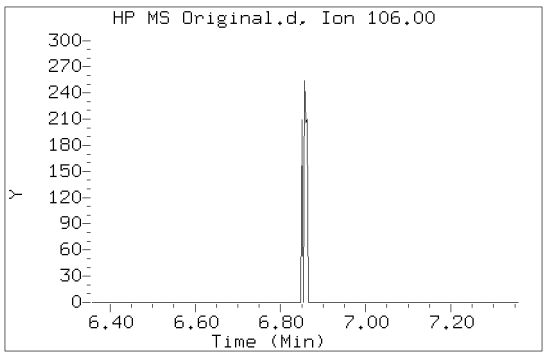
BEFORE
MASS
65
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



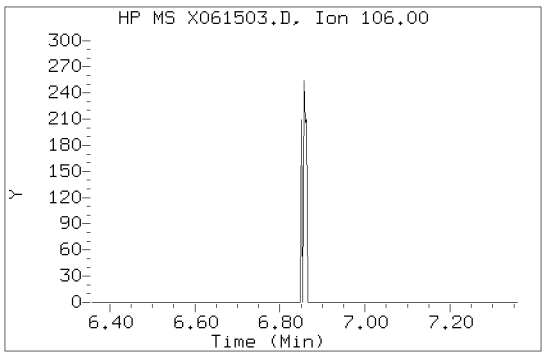
AFTER
MASS
65
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
106
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



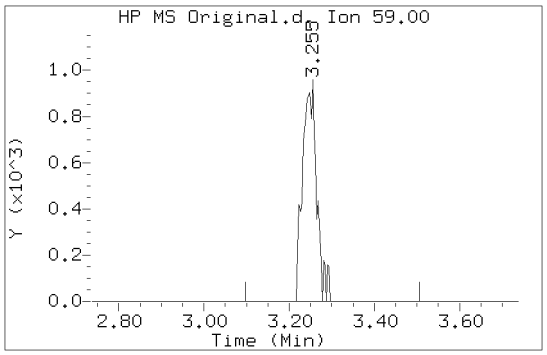
AFTER
MASS
106
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



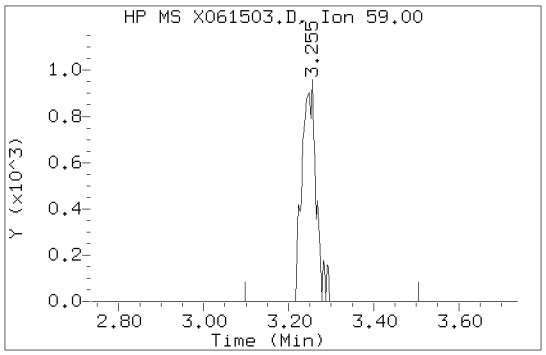
tert-Butyl formate (762-75-4)

Reason Code:

BEFORE
MASS
59
AREA
2194
HEIGHT
959
12-Jul-2024
11:38
s
zaid



AFTER
MASS
59
AREA
2194
HEIGHT
959
12-Jul-2024
11:38
s
zaid



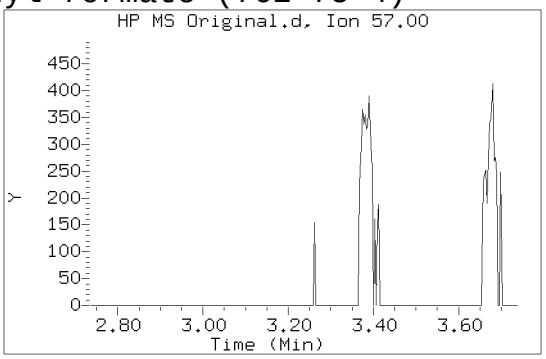
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061503.D
Inj Date : 15-JUN-2024 14:24
InstruID : voa7.i
LabSampID : VSTD001

tert-Butyl formate (762-75-4)

Reason Code:

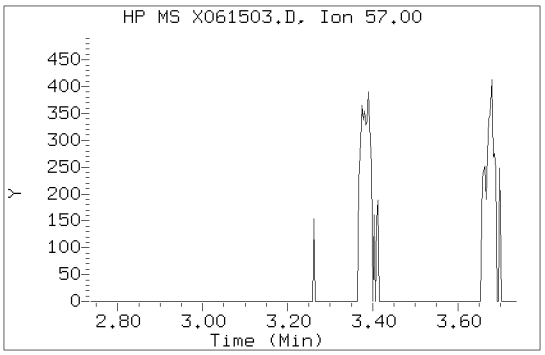
BEFORE

MASS
57
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



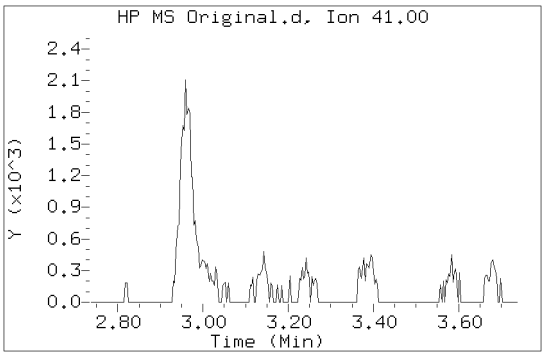
AFTER

MASS
57
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



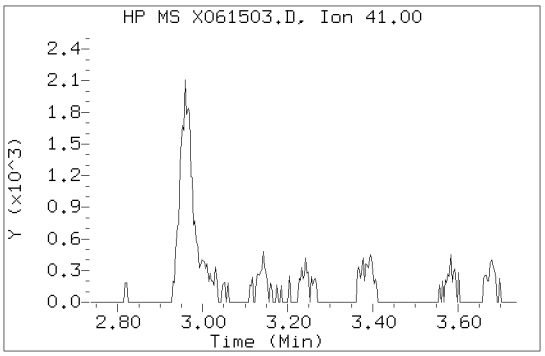
BEFORE

MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

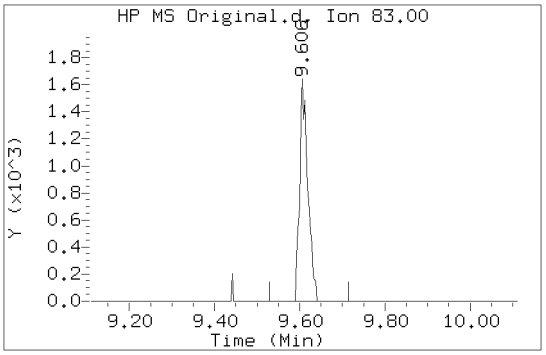


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

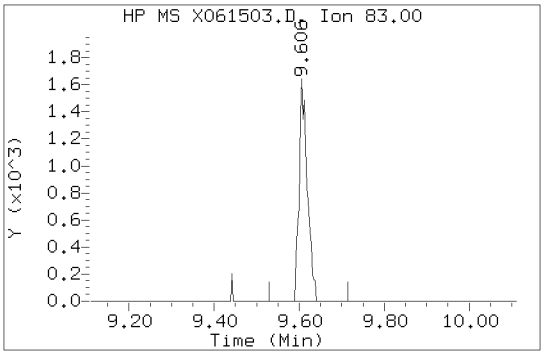
BEFORE

MASS
83
AREA
2231
HEIGHT
1643
12-Jul-2024
11:38
s
zaid



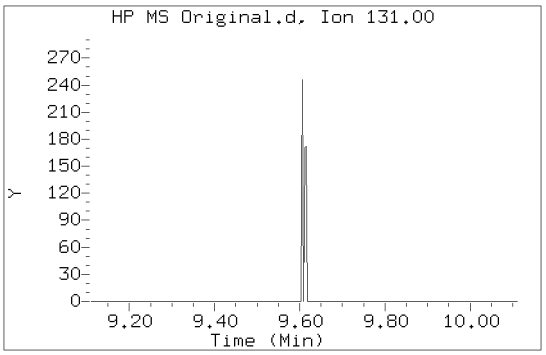
AFTER

MASS
83
AREA
2231
HEIGHT
1643
12-Jul-2024
11:38
s
zaid



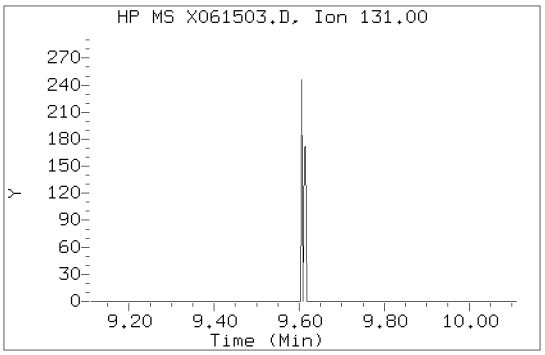
BEFORE

MASS
131
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
131
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



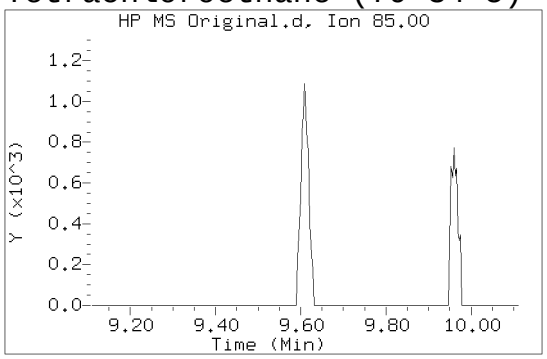
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061503.D
Inj Date : 15-JUN-2024 14:24
InstruID : voa7.i
LabSampID : VSTD001

1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

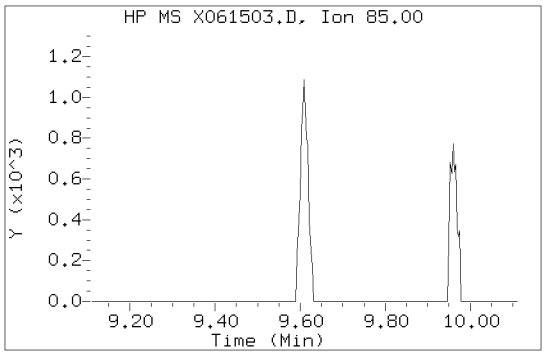
BEFORE

MASS
85
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
85
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

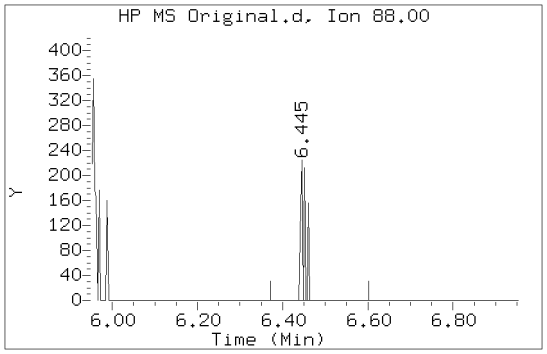


1,4-Dioxane ()

Reason Code:

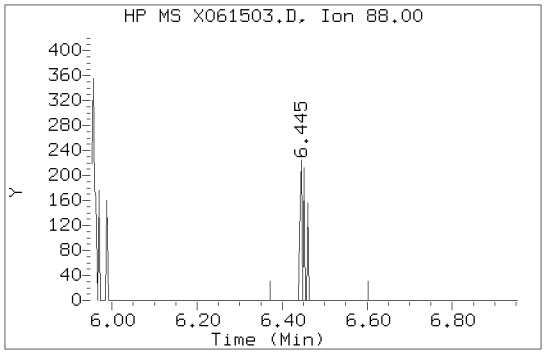
BEFORE

MASS
88
AREA
143
HEIGHT
225
12-Jul-2024
11:38
s
zaid



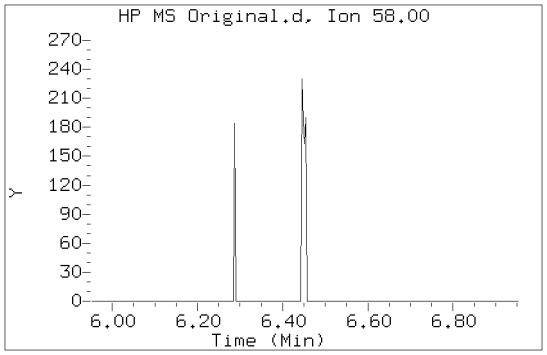
AFTER

MASS
88
AREA
143
HEIGHT
225
12-Jul-2024
11:38
s
zaid



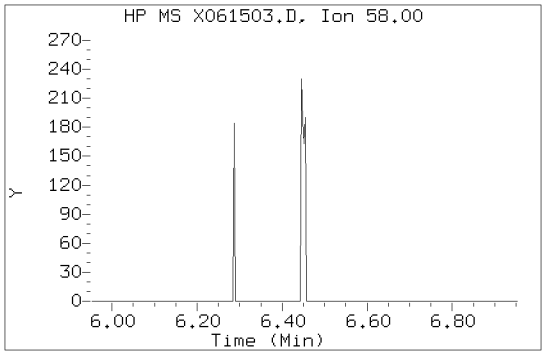
BEFORE

MASS
58
AREA
545
HEIGHT
368
12-Jul-2024
11:38
s
zaid



AFTER

MASS
58
AREA
545
HEIGHT
368
12-Jul-2024
11:38
s
zaid

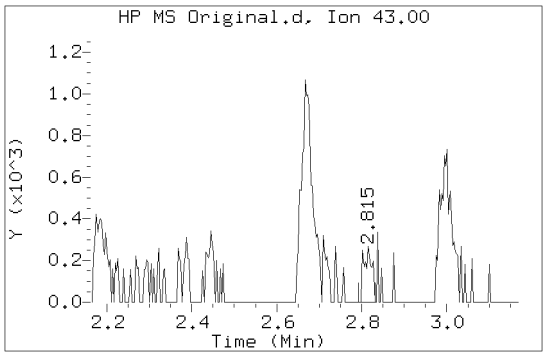


Methyl acetate (79-20-9)

Reason Code:

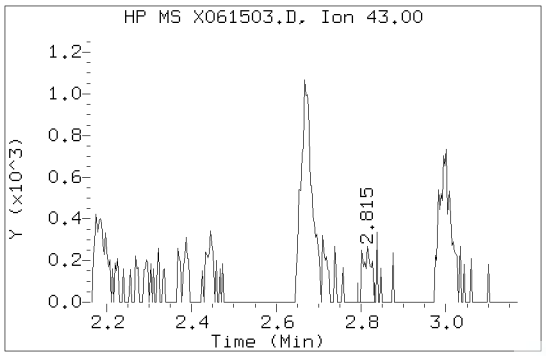
BEFORE

MASS
43
AREA
346
HEIGHT
268
12-Jul-2024
11:38
s
zaid



AFTER

MASS
43
AREA
346
HEIGHT
268
12-Jul-2024
11:38
s
zaid



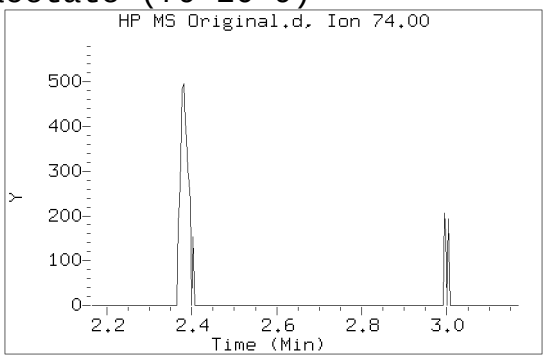
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061503.D
Inj Date : 15-JUN-2024 14:24
InstruID : voa7.i
LabSampID : VSTD001

Methyl acetate (79-20-9)

Reason Code:

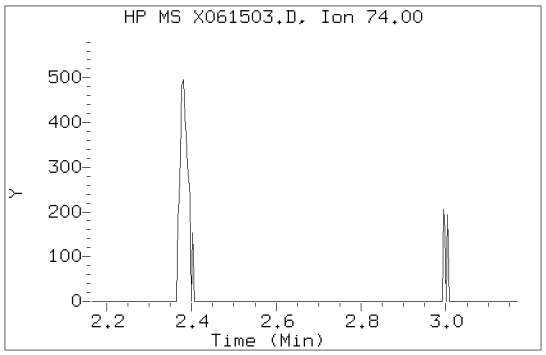
BEFORE

MASS
74
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
74
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

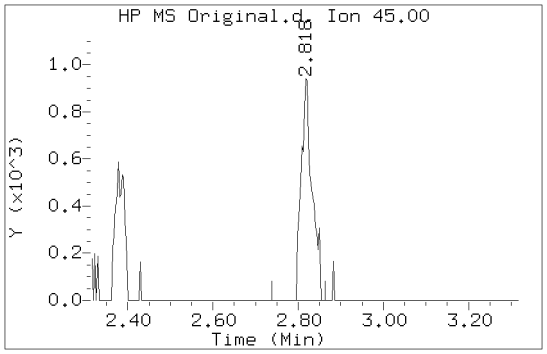


Isopropyl alcohol (67-63-0)

Reason Code:

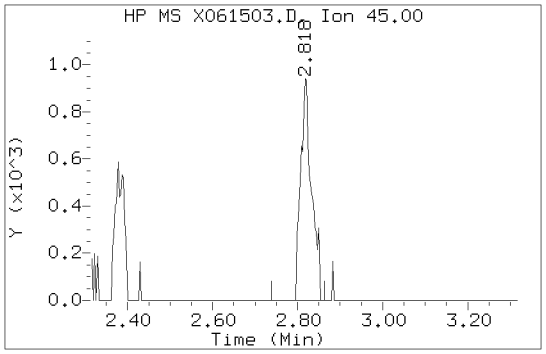
BEFORE

MASS
45
AREA
1689
HEIGHT
941
12-Jul-2024
11:38
s
zaid



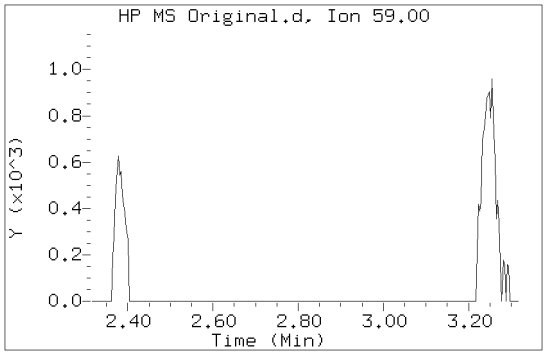
AFTER

MASS
45
AREA
1689
HEIGHT
941
12-Jul-2024
11:38
s
zaid



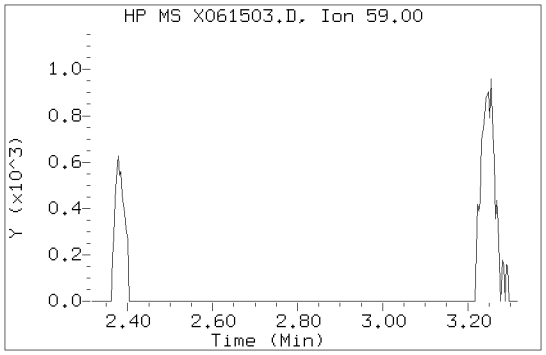
BEFORE

MASS
59
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
59
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

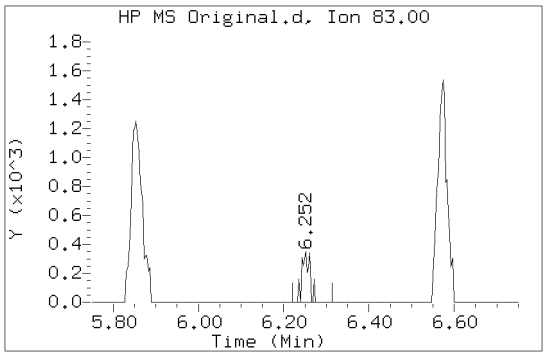


Methylcyclohexane (108-87-2)

Reason Code:

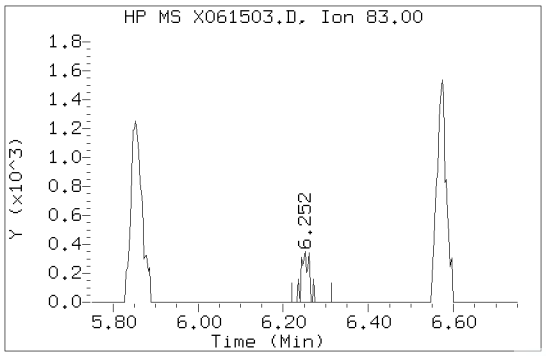
BEFORE

MASS
83
AREA
447
HEIGHT
351
12-Jul-2024
11:38
s
zaid



AFTER

MASS
83
AREA
447
HEIGHT
351
12-Jul-2024
11:38
s
zaid



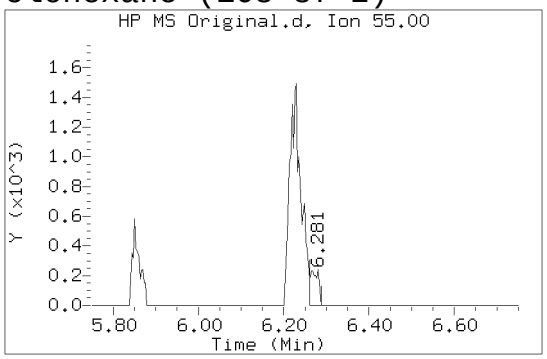
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061503.D
Inj Date : 15-JUN-2024 14:24
InstruID : voa7.i
LabSampID : VSTD001

Methylcyclohexane (108-87-2)

Reason Code:

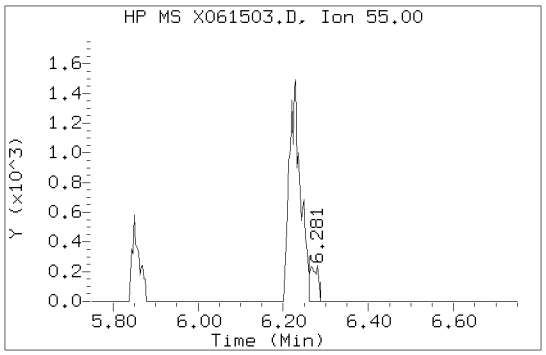
BEFORE

MASS
55
AREA
312
HEIGHT
241
12-Jul-2024
11:38
s
zaid



AFTER

MASS
55
AREA
312
HEIGHT
241
12-Jul-2024
11:38
s
zaid

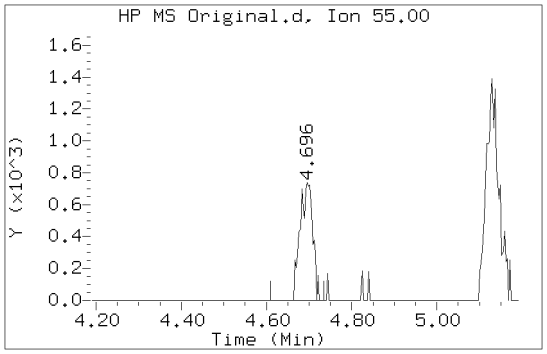


Methyl Acrylate (96-33-3)

Reason Code:

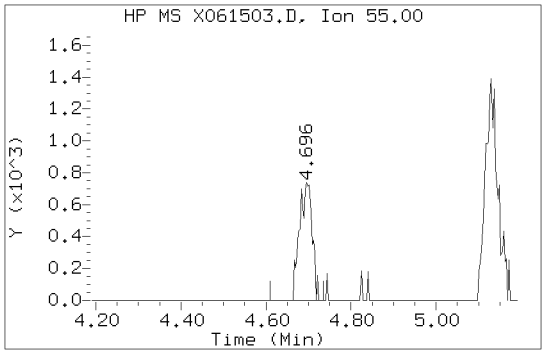
BEFORE

MASS
55
AREA
1547
HEIGHT
738
12-Jul-2024
11:38
s
zaid



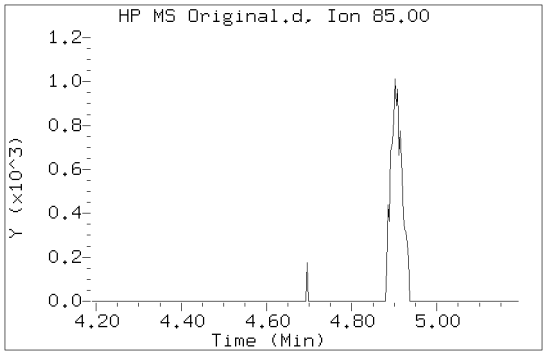
AFTER

MASS
55
AREA
1547
HEIGHT
738
12-Jul-2024
11:38
s
zaid



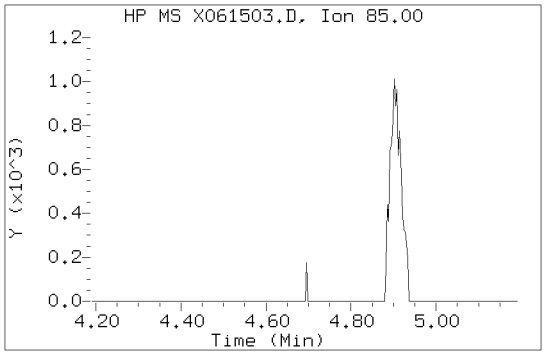
BEFORE

MASS
85
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
85
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

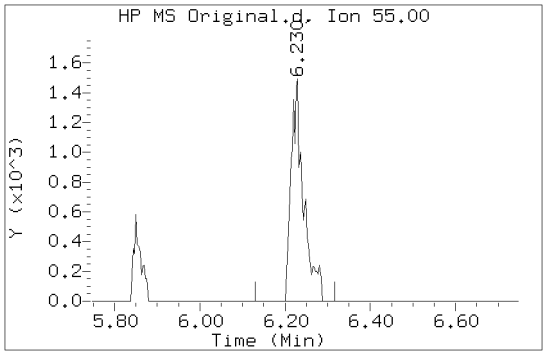


Ethyl Acrylate (140-88-5)

Reason Code:

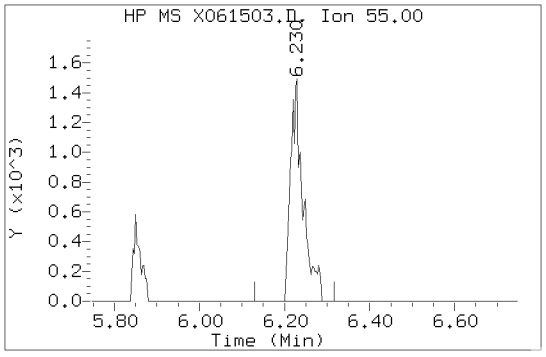
BEFORE

MASS
55
AREA
3026
HEIGHT
1493
12-Jul-2024
11:38
s
zaid



AFTER

MASS
55
AREA
3026
HEIGHT
1493
12-Jul-2024
11:38
s
zaid

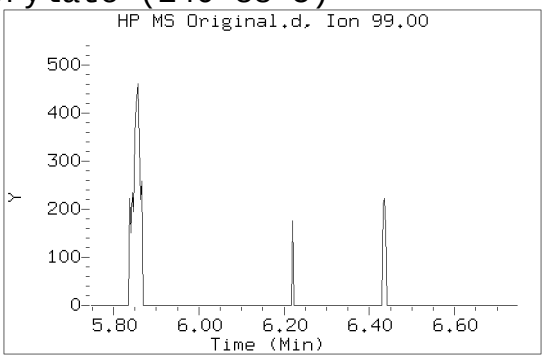


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061503.D
Inj Date : 15-JUN-2024 14:24
InstruID : voa7.i
LabSampID : VSTD001

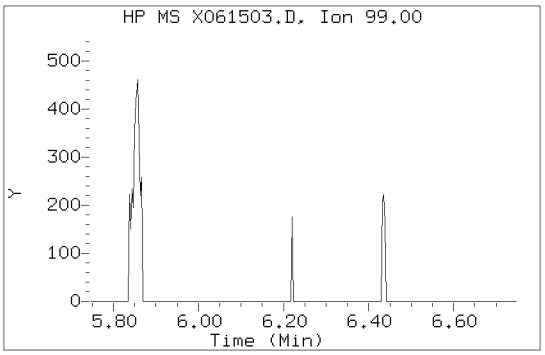
Ethyl Acrylate (140-88-5)

Reason Code:

BEFORE
MASS
99
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



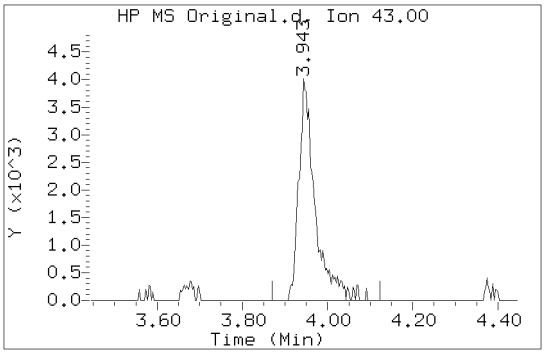
AFTER
MASS
99
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



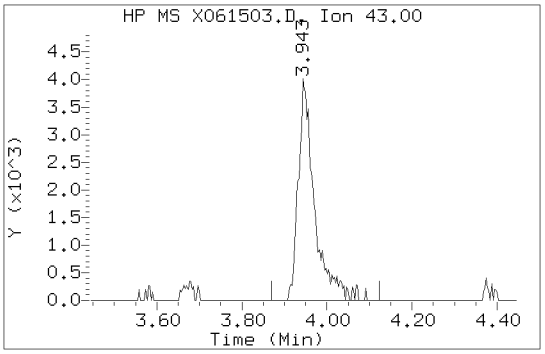
Ethyl Acetate (141-78-6)

Reason Code:

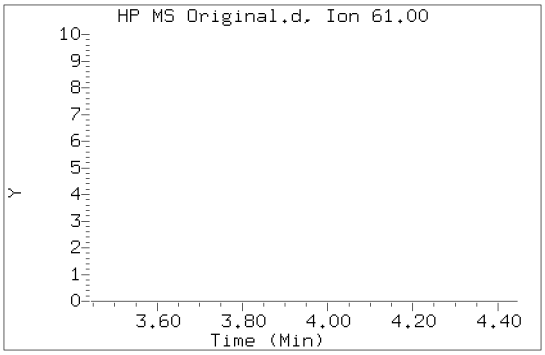
BEFORE
MASS
43
AREA
10732
HEIGHT
4015
12-Jul-2024
11:38
s
zaid



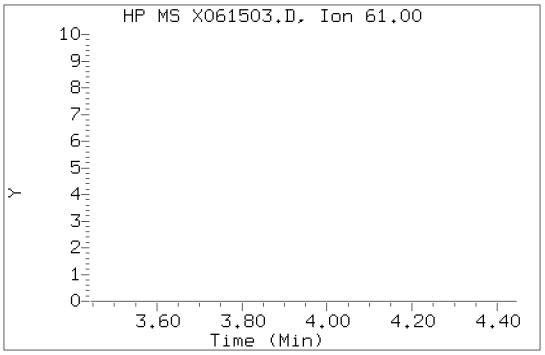
AFTER
MASS
43
AREA
10732
HEIGHT
4015
12-Jul-2024
11:38
s
zaid



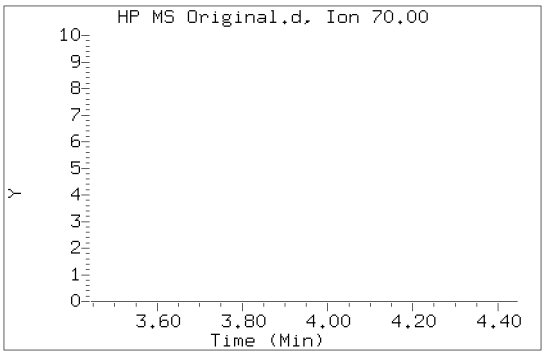
BEFORE
MASS
61
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



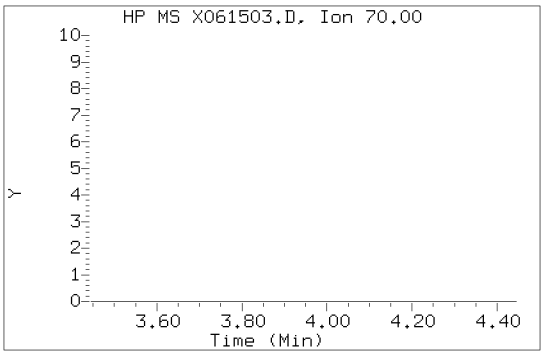
AFTER
MASS
61
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
70
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER
MASS
70
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

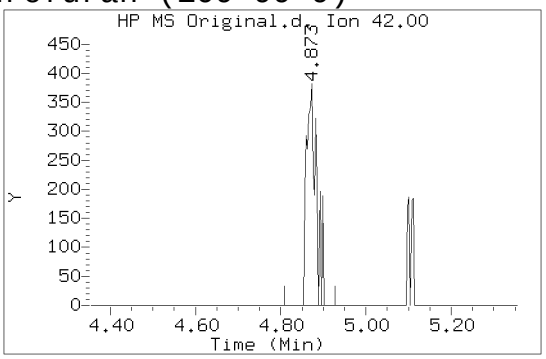


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061503.D
Inj Date : 15-JUN-2024 14:24
InstruID : voa7.i
LabSampID : VSTD001

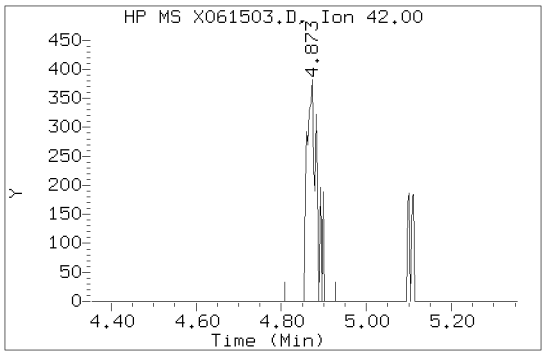
Tetrahydrofuran (109-99-9)

Reason Code:

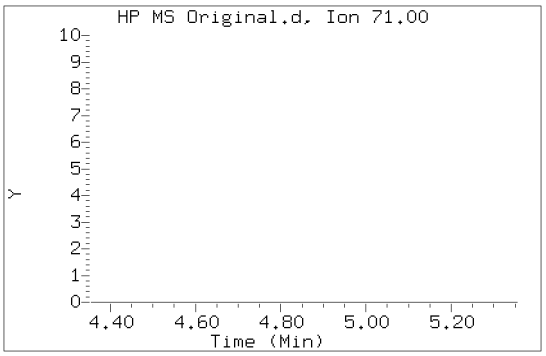
BEFORE
MASS
42
AREA
607
HEIGHT
382
12-Jul-2024
11:38
s
zaid



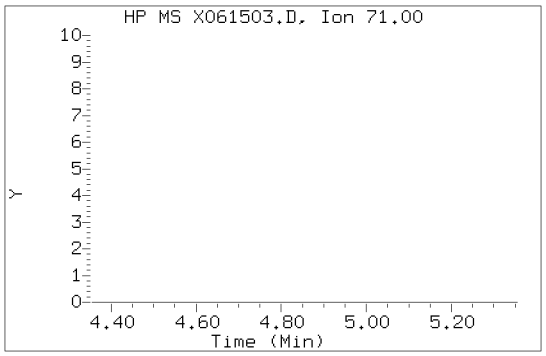
AFTER
MASS
42
AREA
607
HEIGHT
382
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
71
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



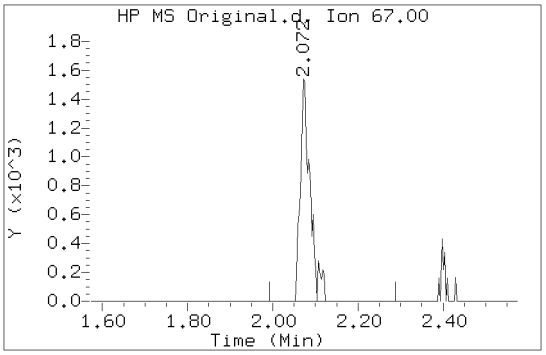
AFTER
MASS
71
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



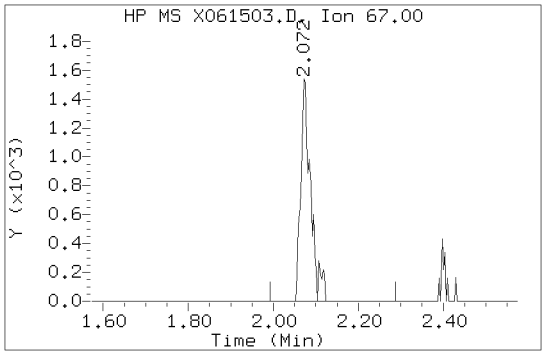
Dichlorofluoromethane (75-43-4)

Reason Code:

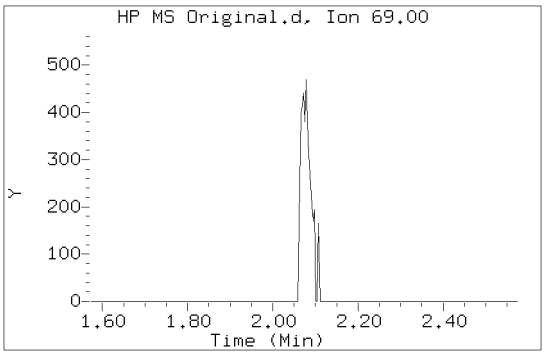
BEFORE
MASS
67
AREA
2496
HEIGHT
1540
12-Jul-2024
11:38
s
zaid



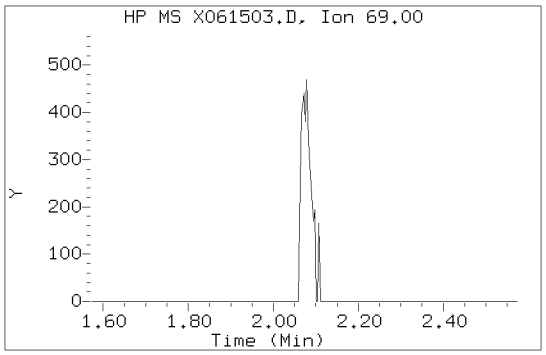
AFTER
MASS
67
AREA
2496
HEIGHT
1540
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
69
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER
MASS
69
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



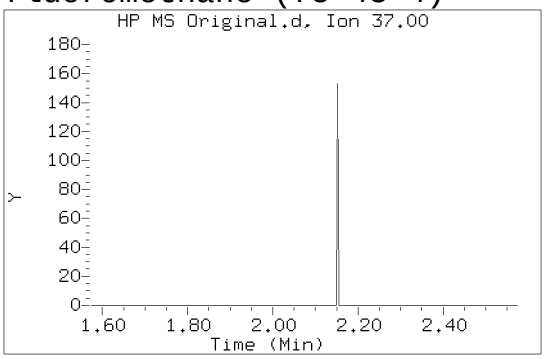
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061503.D
Inj Date : 15-JUN-2024 14:24
InstruID : voa7.i
LabSampID : VSTD001

Dichlorofluoromethane (75-43-4)

Reason Code:

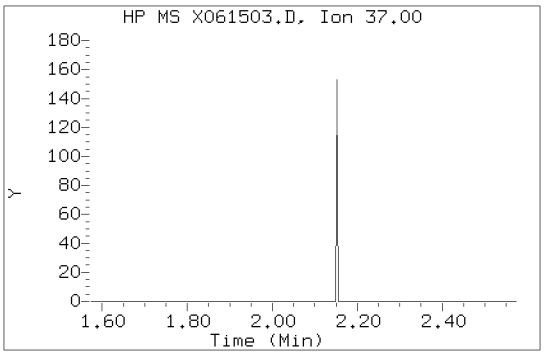
BEFORE

MASS
37
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
37
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

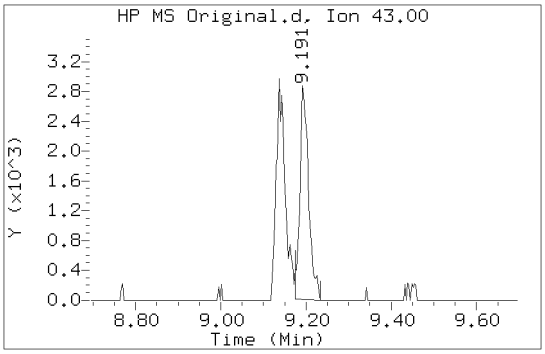


n-Amyl acetate (628-63-7)

Reason Code:

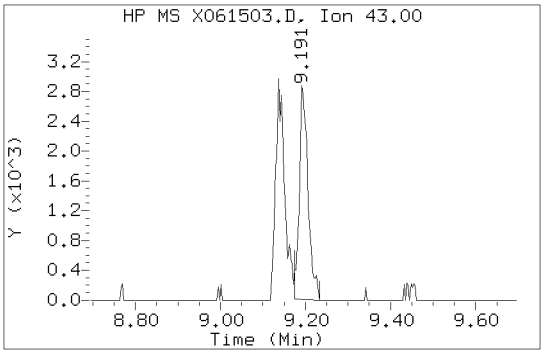
BEFORE

MASS
43
AREA
4173
HEIGHT
2867
12-Jul-2024
11:38
s
zaid



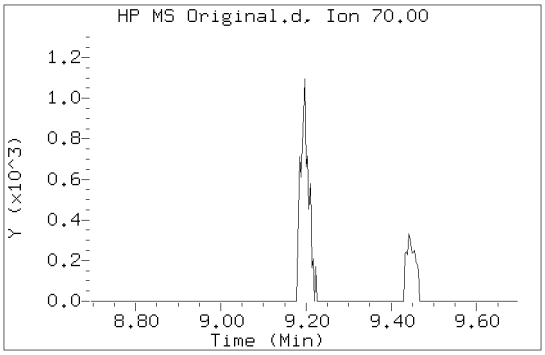
AFTER

MASS
43
AREA
4173
HEIGHT
2867
12-Jul-2024
11:38
s
zaid



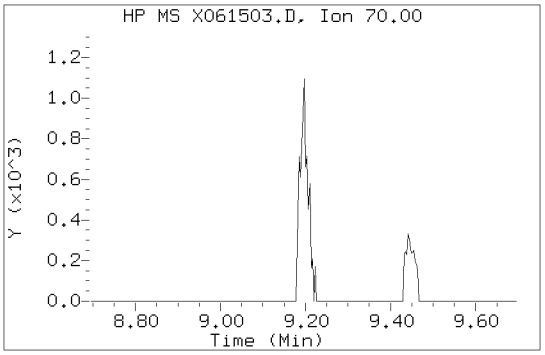
BEFORE

MASS
70
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



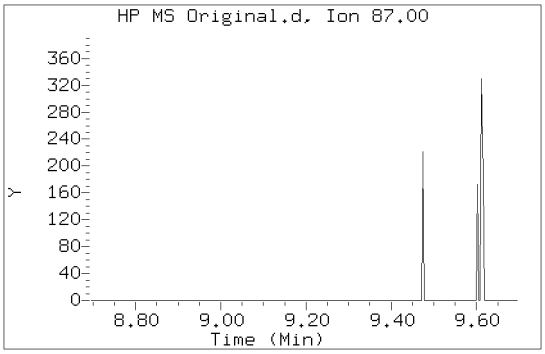
AFTER

MASS
70
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



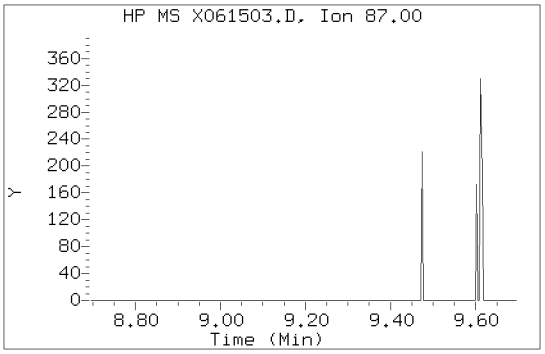
BEFORE

MASS
87
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
87
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



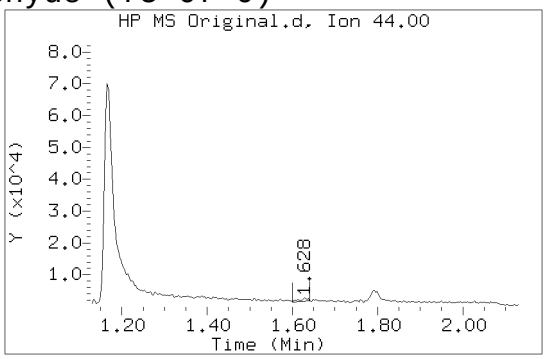
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061503.D
Inj Date : 15-JUN-2024 14:24
InstruID : voa7.i
LabSampID : VSTD001

Acetaldehyde (75-07-0)

Reason Code:

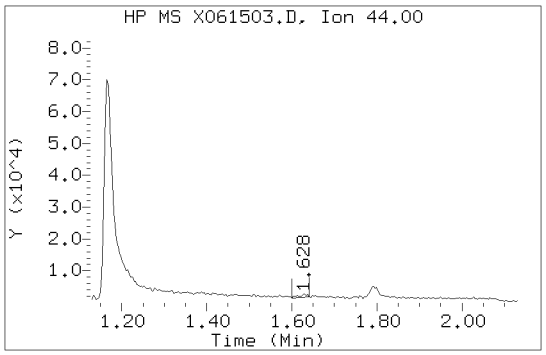
BEFORE

MASS
44
AREA
1282
HEIGHT
980
12-Jul-2024
11:38
s
zaid



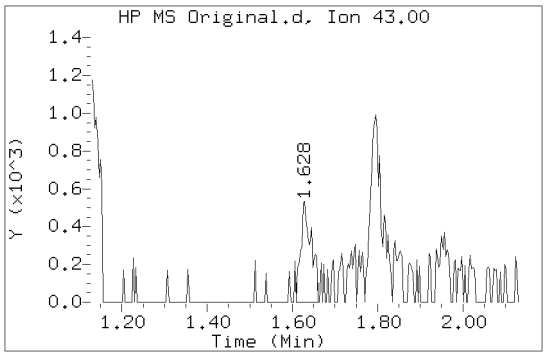
AFTER

MASS
44
AREA
1282
HEIGHT
980
12-Jul-2024
11:38
s
zaid



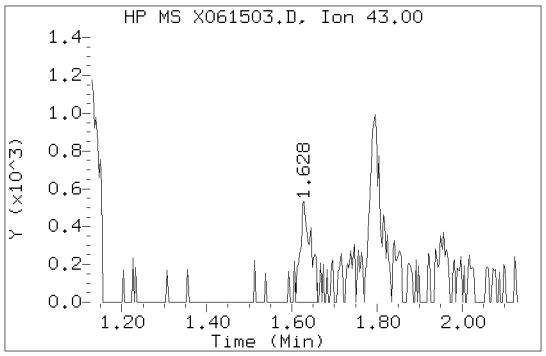
BEFORE

MASS
43
AREA
921
HEIGHT
535
12-Jul-2024
11:38
s
zaid



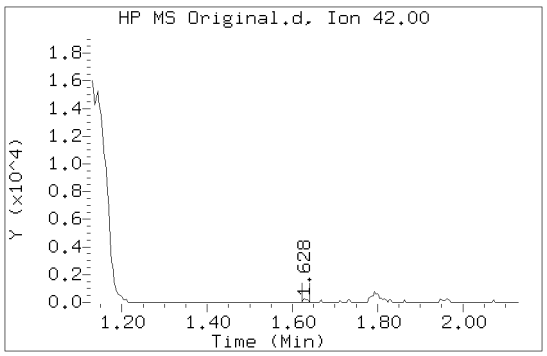
AFTER

MASS
43
AREA
921
HEIGHT
535
12-Jul-2024
11:38
s
zaid



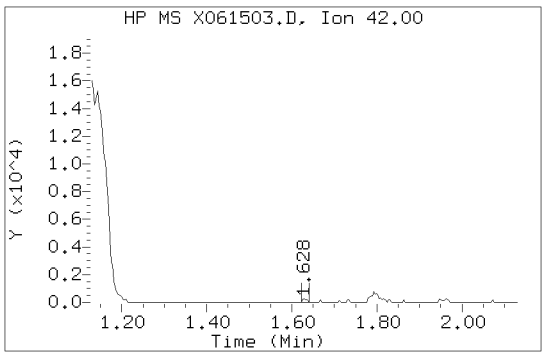
BEFORE

MASS
42
AREA
194
HEIGHT
255
12-Jul-2024
11:38
s
zaid



AFTER

MASS
42
AREA
194
HEIGHT
255
12-Jul-2024
11:38
s
zaid

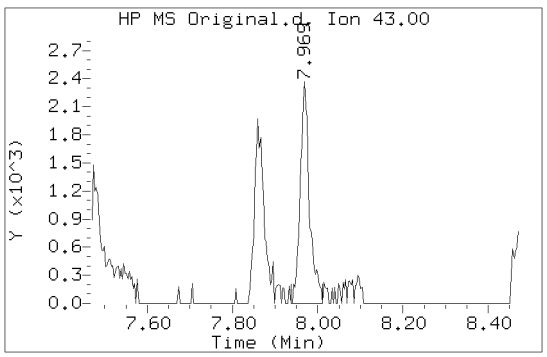


n-Butyl acetate (123-86-4)

Reason Code:

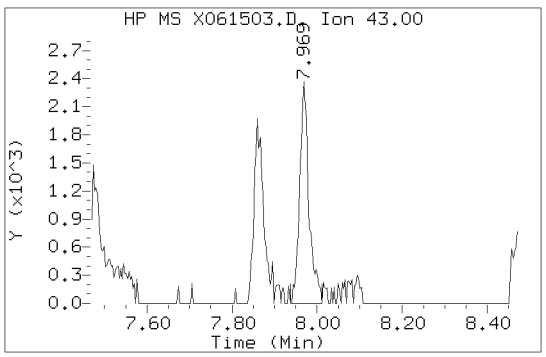
BEFORE

MASS
43
AREA
3629
HEIGHT
2367
12-Jul-2024
11:38
s
zaid



AFTER

MASS
43
AREA
3629
HEIGHT
2367
12-Jul-2024
11:38
s
zaid



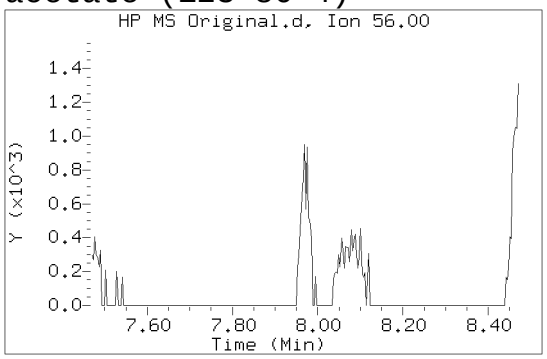
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061503.D
Inj Date : 15-JUN-2024 14:24
InstruID : voa7.i
LabSampID : VSTD001

n-Butyl acetate (123-86-4)

Reason Code:

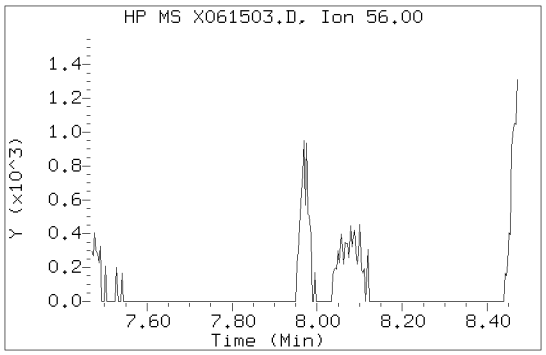
BEFORE

MASS
56
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



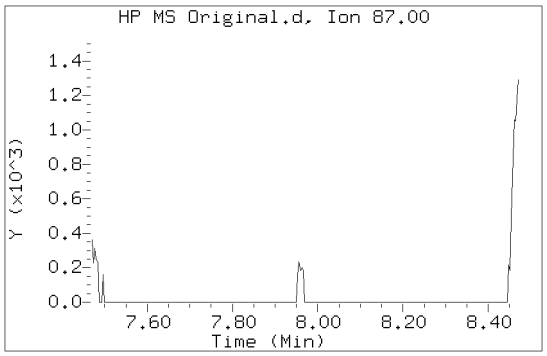
AFTER

MASS
56
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



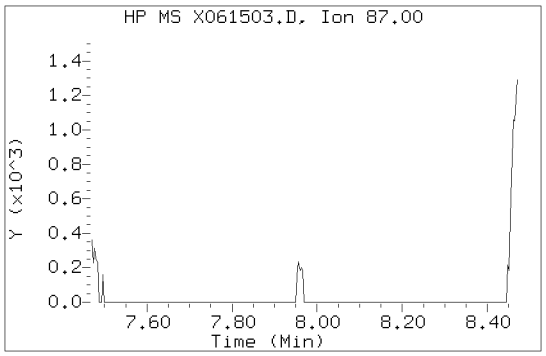
BEFORE

MASS
87
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
87
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

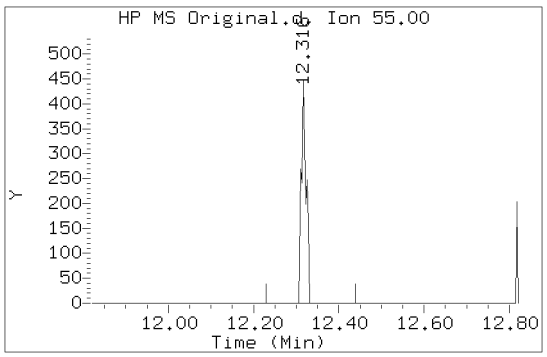


2-Etyhlhexyl Acrylate (103-11-7)

Reason Code:

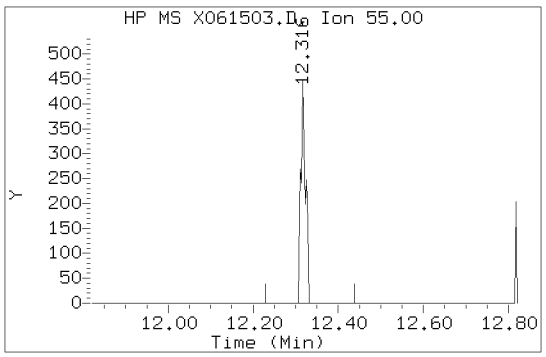
BEFORE

MASS
55
AREA
362
HEIGHT
446
12-Jul-2024
11:38
s
zaid



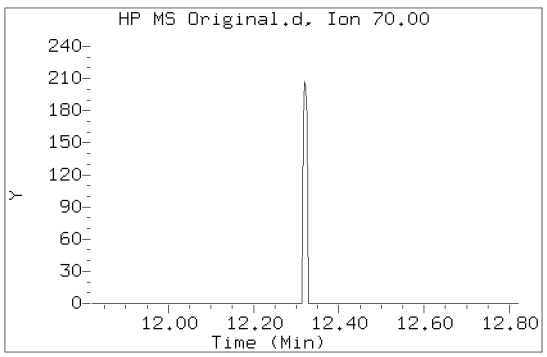
AFTER

MASS
55
AREA
362
HEIGHT
446
12-Jul-2024
11:38
s
zaid



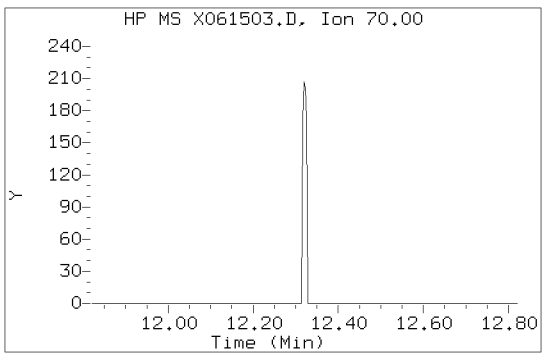
BEFORE

MASS
70
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
70
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

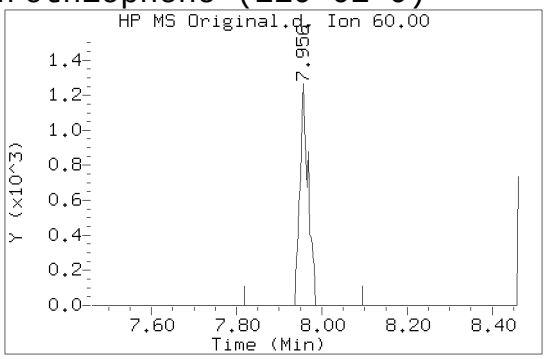


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061503.D
Inj Date : 15-JUN-2024 14:24
InstruID : voa7.i
LabSampID : VSTD001

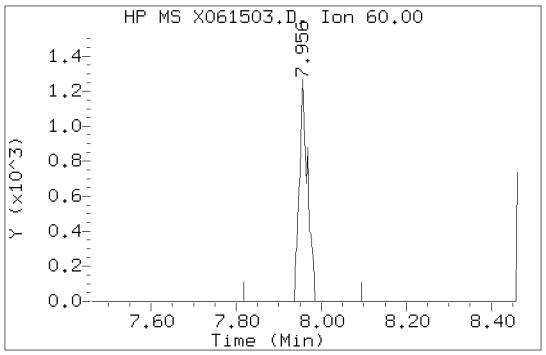
Tetrahydrothiophene (110-01-0)

Reason Code:

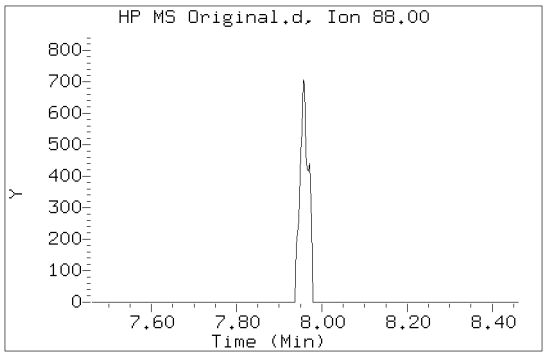
BEFORE
MASS
60
AREA
1726
HEIGHT
1266
12-Jul-2024
11:38
s
zaid



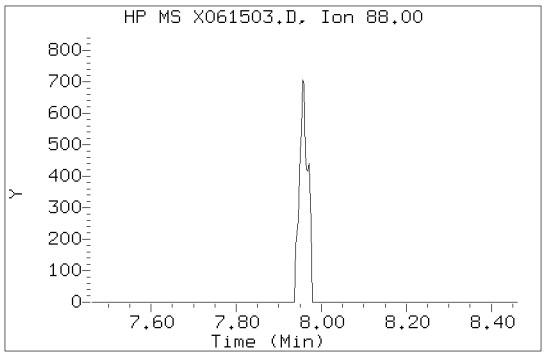
AFTER
MASS
60
AREA
1726
HEIGHT
1266
12-Jul-2024
11:38
s
zaid



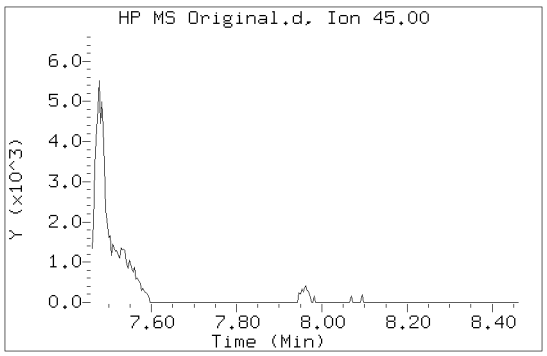
BEFORE
MASS
88
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



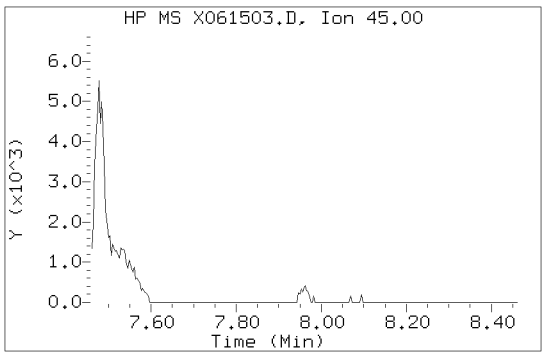
AFTER
MASS
88
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
45
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



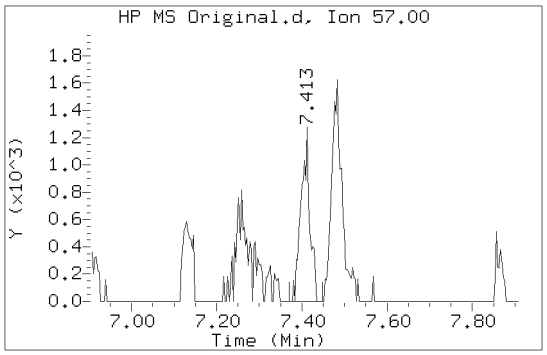
AFTER
MASS
45
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



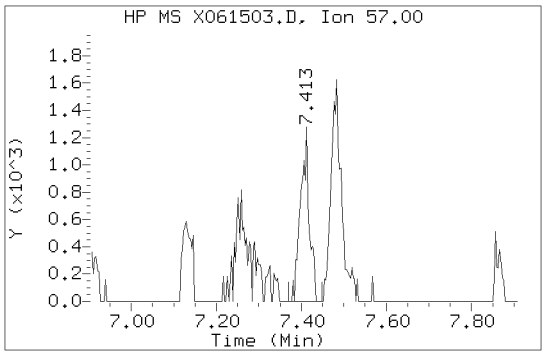
sec-Butyl Ether (6863-58-7)

Reason Code:

BEFORE
MASS
57
AREA
1835
HEIGHT
1276
12-Jul-2024
11:38
s
zaid



AFTER
MASS
57
AREA
1835
HEIGHT
1276
12-Jul-2024
11:38
s
zaid

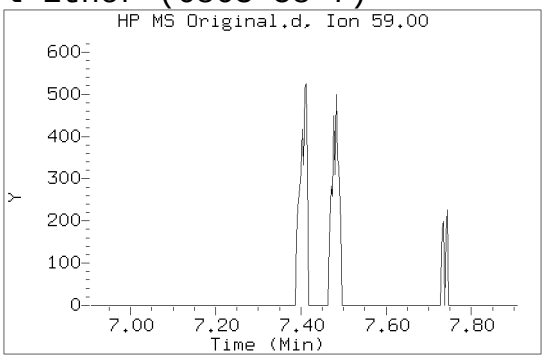


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061503.D
Inj Date : 15-JUN-2024 14:24
InstruID : voa7.i
LabSampID : VSTD001

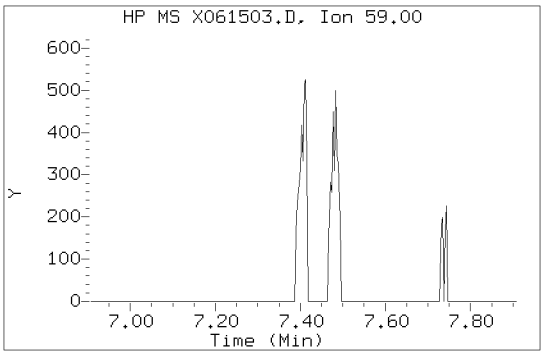
sec-Butyl Ether (6863-58-7)

Reason Code:

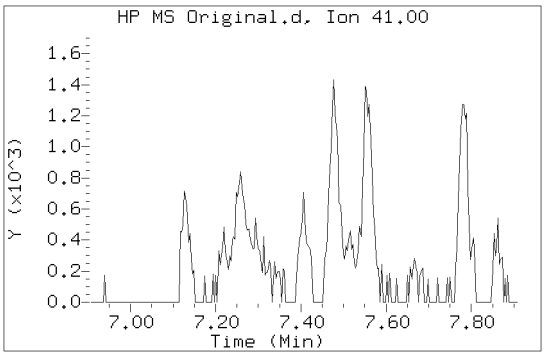
BEFORE
MASS
59
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



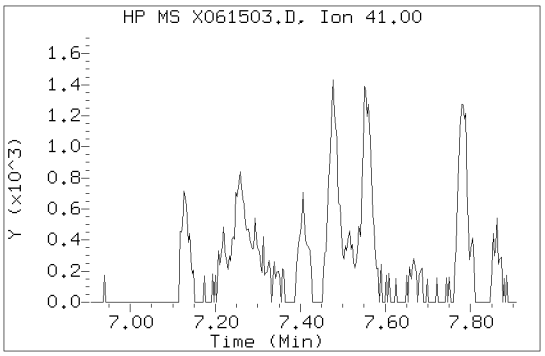
AFTER
MASS
59
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



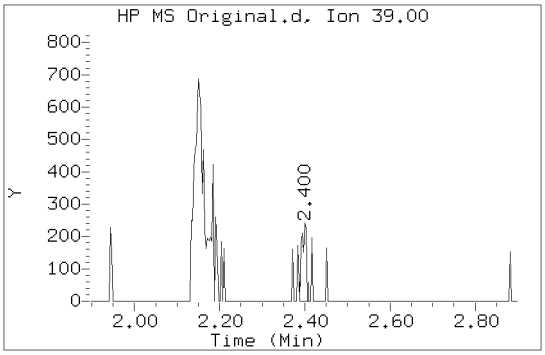
AFTER
MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



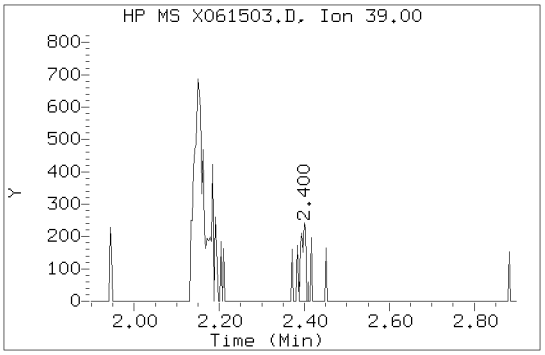
Isoprene (78-79-5)

Reason Code:

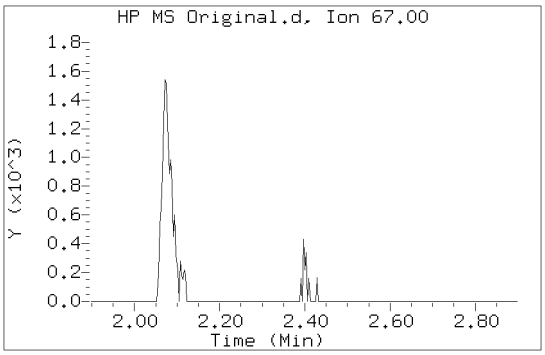
BEFORE
MASS
39
AREA
194
HEIGHT
243
12-Jul-2024
11:38
s
zaid



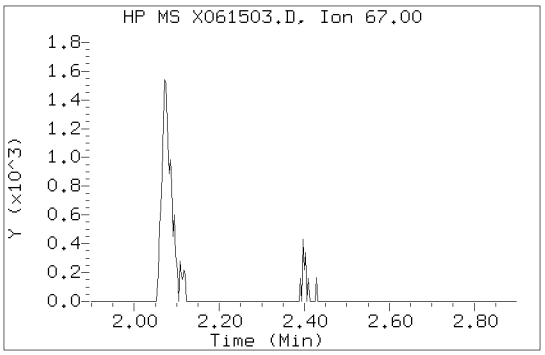
AFTER
MASS
39
AREA
194
HEIGHT
243
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
67
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER
MASS
67
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



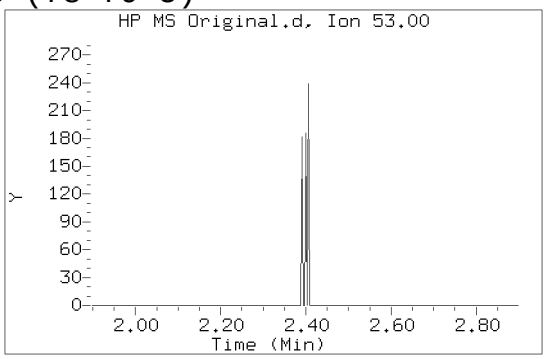
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061503.D
Inj Date : 15-JUN-2024 14:24
InstruID : voa7.i
LabSampID : VSTD001

Isoprene (78-79-5)

Reason Code:

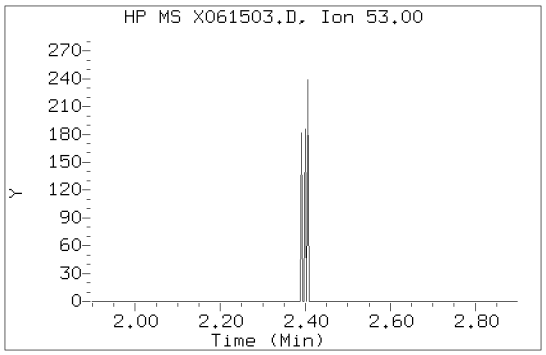
BEFORE

MASS
53
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
53
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

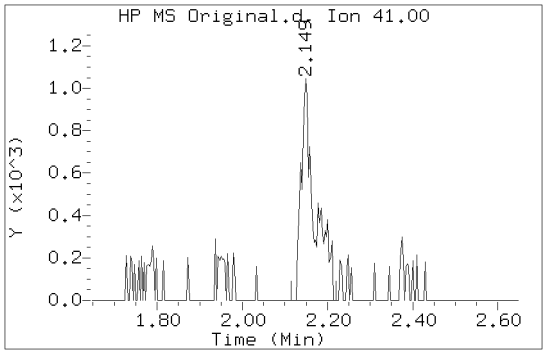


2-Chloropropene (557-98-2)

Reason Code:

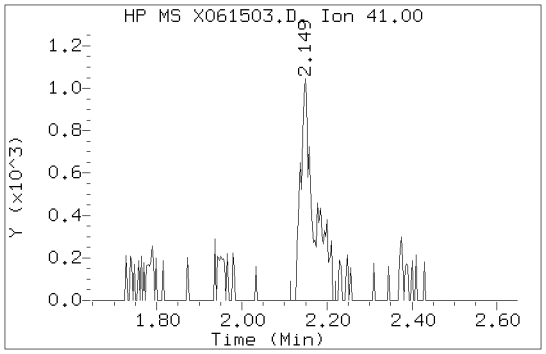
BEFORE

MASS
41
AREA
2312
HEIGHT
1045
12-Jul-2024
11:38
s
zaid



AFTER

MASS
41
AREA
2312
HEIGHT
1045
12-Jul-2024
11:38
s
zaid



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061504.D Page 1
Report Date: 12-Jul-2024 11:38

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061504.D
Lab Smp Id: VSTD002 Client Smp ID: VSTD002
Inj Date : 15-JUN-2024 14:46
Operator : AP Inst ID: voa7.i
Smp Info : VSTD002;VSTD002;1;3
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240615.b\8260W.m
Meth Date : 12-Jul-2024 11:38 voa7.i Quant Type: ISTD
Cal Date : 15-JUN-2024 14:24 Cal File: X061503.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	5.130	5.130	(1.000)	126989	50.0000	
2	Dichlorodifluoromethane	85	1.297	1.297	(0.253)	4360	2.00000	2.90
159	Dichlorofluoromethane	67	2.078	2.078	(0.405)	5948	2.00000	2.24(M)
3	Chloromethane	50	1.448	1.448	(0.282)	6755	2.00000	2.53(a)
4	Propionitrile	54	4.670	4.670	(0.910)	5593	20.0000	23.40
5	Vinyl Chloride	62	1.535	1.535	(0.299)	5443	2.00000	2.90
6	Bromomethane	94	1.811	1.811	(0.353)	3738	2.00000	2.58
7	Chloroethane	64	1.898	1.898	(0.370)	3631	2.00000	2.94(M)
8	Trichlorofluoromethane	101	2.114	2.114	(0.412)	6842	2.00000	2.61(M)
10	Acetone	43	2.673	2.673	(0.521)	4581	4.00000	5.00(M)
11	1,1-Dichloroethene	96	2.589	2.589	(0.505)	3570	2.00000	2.88
12	Isobutyl Alcohol	43	5.573	5.573	(1.086)	13006	40.0000	44.12
13	Acetonitrile	39	2.962	2.962	(0.578)	4734	20.0000	18.04
14	Allyl Chloride	41	2.962	2.962	(0.578)	12586	2.00000	2.18
15	Iodomethane	142	2.741	2.741	(0.534)	6420	4.00000	7.56
16	Acrylonitrile	53	3.387	3.387	(0.660)	2570	4.00000	4.88
17	Methylene Chloride	84	3.088	3.088	(0.602)	5964	2.00000	2.30
18	Methyl tert-butyl ether	73	3.384	3.384	(0.660)	9601	2.00000	2.93
19	Carbon Disulfide	76	2.795	2.795	(0.545)	24820	4.00000	5.64
20	trans-1,2-Dichloroethene	96	3.380	3.380	(0.659)	3881	2.00000	2.60

21 Vinyl Acetate	43	4.663	4.663 (0.909)	5183	4.00000	4.08(M)
22 1,1-Dichloroethane	63	3.856	3.856 (0.752)	7397	2.00000	2.47

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061504.D Page 2
Report Date: 12-Jul-2024 11:38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.966	3.966	(0.773)	6709	2.00000	2.79(a)
	24 2-Butanone	43	4.593	4.593	(0.895)	5001	4.00000	4.38
	25 Methacrylonitrile	41	2.149	2.149	(0.419)	3879	2.00000	1.83(a)
	26 2,2-Dichloropropane	77	4.528	4.528	(0.883)	6796	2.00000	2.68
	27 cis-1,2-Dichloroethene	96	4.548	4.548	(0.887)	4389	2.00000	2.39
	28 Chloroform	83	4.898	4.898	(0.955)	8279	2.00000	2.31
	29 Bromochloromethane	128	4.811	4.811	(0.938)	2129	2.00000	2.49
$	30 Dibromofluoromethane	113	5.078	5.078	(0.990)	4411	2.00000	2.22
	31 1,1,1-Trichloroethane	97	5.072	5.072	(0.989)	6669	2.00000	2.79
	32 1,1-Dichloropropene	75	5.239	5.239	(0.895)	6316	2.00000	3.22
	33 1,2-Dichloroethane	62	5.493	5.493	(0.938)	7132	2.00000	2.77
	34 Carbon Tetrachloride	117	5.236	5.236	(0.895)	5848	2.00000	3.71
$	35 1,2-Dichloroethane-d4	65	5.412	5.412	(1.055)	6311	2.00000	2.68
*	36 1,4-Difluorobenzene	114	5.853	5.853	(1.000)	207013	50.0000	
	37 Benzene	78	5.457	5.457	(0.932)	17570	2.00000	2.72
	38 Trichloroethene	130	6.084	6.084	(1.040)	4355	2.00000	2.91
	39 Bromodichloromethane	83	6.567	6.567	(1.122)	6210	2.00000	2.69
	40 Methyl Methacrylate	41	6.435	6.435	(1.254)	4678	2.00000	1.79(a)
	41 2-Chloroethylvinyl ether	63	6.859	6.859	(1.172)	3297	4.00000	4.67(a)
	42 1,2-Dichloropropane	63	6.306	6.306	(1.077)	5229	2.00000	2.89
	43 2-Nitropropane	43	6.792	6.792	(1.324)	1657	2.00000	3.95(a)
	44 Dibromomethane	93	6.416	6.416	(1.096)	2780	2.00000	3.02
	45 4-Methyl-2-Pentanone	43	7.126	7.126	(0.842)	9850	4.00000	4.85
	46 cis-1,3-Dichloropropene	75	6.975	6.975	(1.192)	6773	2.00000	3.38
*	47 Chlorobenzene-d5	117	8.467	8.467	(1.000)	200102	50.0000	
$	48 Toluene-d8	98	7.207	7.207	(0.851)	16366	2.00000	2.05
	49 Ethyl Methacrylate	69	8.072	8.072	(1.379)	5298	2.00000	3.05
	50 Toluene	91	7.264	7.264	(0.858)	18783	2.00000	2.59
	51 trans-1,3-Dichloropropene	75	6.975	6.975	(1.192)	6773	2.00000	3.38
	52 2-Hexanone	43	7.859	7.859	(0.928)	6816	4.00000	3.94
	53 1,1,2-Trichloroethane	83	7.637	7.637	(0.902)	3483	2.00000	2.33
	54 1,3-Dichloropropane	76	7.782	7.782	(0.919)	7570	2.00000	2.45
	55 Dibromochloromethane	129	7.975	7.975	(0.942)	4238	2.00000	2.58
	56 Tetrachloroethene	164	7.737	7.737	(0.914)	3466	2.00000	2.98
	57 1,2-Dibromoethane	107	8.072	8.072	(0.953)	3930	2.00000	2.48
	58 1-Chlorohexane	55	8.467	8.467	(1.447)	6865	2.00000	2.67
	59 Chlorobenzene	112	8.490	8.490	(1.003)	12490	2.00000	2.59
	60 1,1,1,2-Tetrachloroethane	131	8.567	8.567	(1.012)	4146	2.00000	3.42
	61 Ethylbenzene	106	8.583	8.583	(1.014)	6293	2.00000	2.65
	62 m,p-Xylenes	106	8.682	8.682	(1.025)	15967	4.00000	5.35
	63 o-Xylene	106	9.026	9.026	(1.066)	7810	2.00000	2.53
	64 Styrene	104	9.043	9.043	(1.068)	13408	2.00000	2.56
	66 Bromoform	173	9.207	9.207	(1.087)	2658	2.00000	2.57(T)
	67 Isopropylbenzene	105	9.338	9.338	(1.103)	20031	2.00000	2.89
	68 1,1,2,2-Tetrachloroethane	83	9.605	9.605	(0.919)	5353	2.00000	2.60
$	69 4-Bromofluorobenzene	95	9.473	9.473	(1.119)	7721	2.00000	2.17
*	70 1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	96430	50.0000	
	71 1,2,3-Trichloropropane	75	9.650	9.650	(0.923)	6201	2.00000	2.82
	72 trans-1,4-Dichloro-2-butene	53	9.657	9.657	(1.140)	1262	2.00000	3.05
	73 n-Propylbenzene	91	9.689	9.689	(0.927)	23920	2.00000	3.33
	74 Bromobenzene	156	9.605	9.605	(0.919)	5157	2.00000	3.10
	75 1,3,5-Trimethylbenzene	105	9.837	9.837	(0.941)	17230	2.00000	3.52

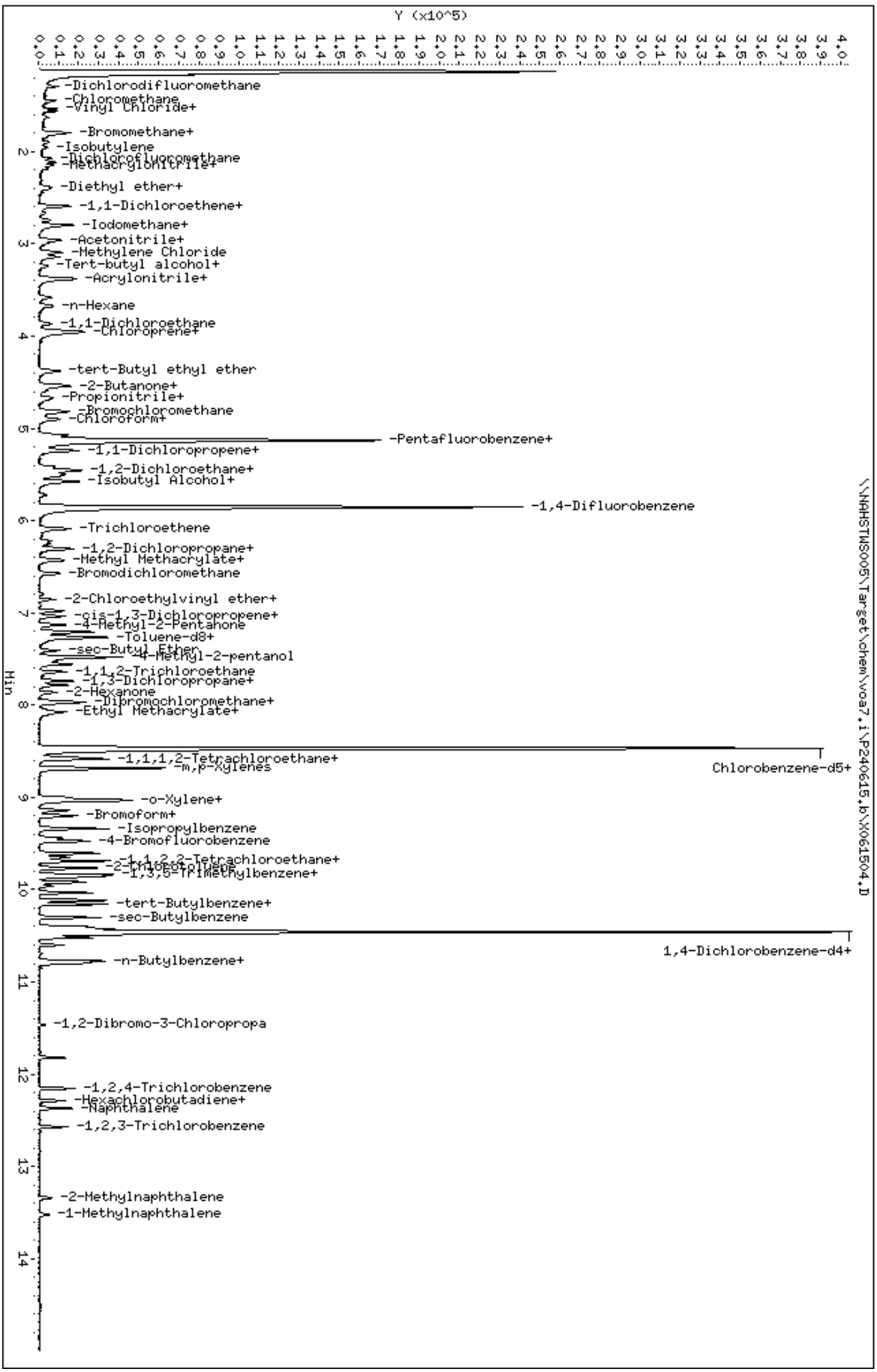
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	15070	2.00000	3.00
77	4-Chlorotoluene	91	9.859	9.859 (0.943)	17334	2.00000	3.10

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061504.D Page 3
Report Date: 12-Jul-2024 11:38

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
78 tert-Butylbenzene	119	10.116	10.116	(0.967)	13885	2.00000	3.04
79 1,2,4-Trimethylbenzene	105	10.158	10.158	(0.971)	16705	2.00000	3.13
81 sec-Butylbenzene	105	10.303	10.303	(0.985)	18544	2.00000	3.33
82 p-Isopropyltoluene	119	10.425	10.425	(0.997)	17126	2.00000	3.40
83 1,3-Dichlorobenzene	146	10.403	10.403	(0.995)	9329	2.00000	3.11
84 1,4-Dichlorobenzene	146	10.473	10.473	(1.002)	9700	2.00000	2.88
87 n-Butylbenzene	91	10.772	10.772	(1.030)	16170	2.00000	3.23
88 1,2-Dichlorobenzene	146	10.795	10.795	(1.032)	8741	2.00000	2.96
89 1,2-Dibromo-3-Chloropropane	75	11.464	11.464	(1.096)	751	2.00000	2.63
90 1,2,4-Trichlorobenzene	180	12.155	12.155	(1.162)	5210	2.00000	3.61
91 Hexachlorobutadiene	225	12.284	12.284	(1.175)	2304	2.00000	3.31
92 Naphthalene	128	12.370	12.370	(1.183)	10913	2.00000	2.63
93 1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	3964	2.00000	2.63
135 1,4-Dioxane	88	6.448	6.448	(1.257)	722	40.0000	56.61(M)
146 Methyl acetate	43	2.988	2.988	(0.583)	3471	2.00000	2.51(Ta)
138 Freon TF	101	2.589	2.589	(0.505)	3581	2.00000	3.04
139 Diethyl ether	59	2.377	2.377	(0.463)	2295	2.00000	2.47
140 1,3-Butadiene	54	1.564	1.564	(0.305)	1902	2.00000	3.01(a)
141 Cyclohexane	56	5.113	5.113	(0.997)	9369	2.00000	3.54
147 Methylcyclohexane	83	6.252	6.252	(1.068)	1703	2.00000	2.81
132 n-Butanol	56	6.223	6.223	(1.213)	1394	40.0000	34.47(TM)
131 Methyl Acrylate	55	4.695	4.695	(0.915)	4529	2.00000	2.04
133 Ethyl Acrylate	55	6.223	6.223	(1.213)	7923	2.00000	2.21(M)
136 n-Hexane	57	3.679	3.679	(0.717)	4304	2.00000	3.34
142 Tetrahydrofuran	42	4.866	4.866	(0.949)	1504	4.00000	7.72
148 Tert-butyl alcohol	59	3.242	3.242	(0.632)	5708	40.0000	60.90
149 Isopropyl alcohol	45	2.818	2.818	(0.549)	4553	40.0000	42.64(M)
151 4-Methyl-2-pentanol	45	7.480	7.480	(0.883)	33216	40.0000	57.35
166 1,2,3-Trimethylbenzene	105	10.518	10.518	(1.006)	12208	2.00000	2.45
167 Ethanol	45	2.300	2.300	(0.448)	850	40.0000	51.51(T)
172 tert-Butyl formate	59	3.242	3.242	(0.632)	5791	4.00000	5.07
173 3,3-Dimethyl-1-butanol	57	8.072	8.072	(0.953)	7547	40.0000	63.30
174 tert-Amyl methyl ether	73	5.580	5.580	(1.088)	11736	2.00000	2.85
175 tert-Butyl ethyl ether	59	4.374	4.374	(0.853)	11060	2.00000	2.55
157 2-Methylnaphthalene	142	13.345	13.345	(1.276)	3328	2.00000	2.21
156 Diisopropyl ether	45	3.943	3.943	(0.769)	12927	2.00000	2.56(T)
171 1-Methylnaphthalene	142	13.521	13.521	(1.293)	3257	2.00000	2.44
130 Ethyl Acetate	43	3.943	3.943	(0.769)	25930	2.00000	3.06(aM)
176 tert-Amyl alcohol	59	5.512	5.512	(1.075)	5269	40.0000	47.10
160 Epichlorohydrin	57	6.911	6.911	(1.181)	1017	8.00000	12.59
161 Butyl acrylate	55	8.998	8.998	(1.063)	9733	2.00000	3.09(a)
182 Isobutylene	56	1.953	1.953	(0.381)	144	2.00000	1.81(aAM)
183 Isopropyl Acetate	43	5.573	5.573	(0.952)	13006	2.00000	2.56(aA)
184 n-Amyl acetate	43	9.197	9.197	(1.086)	9084	2.00000	3.28(aAM)
185 Acetaldehyde	44	1.628	1.628	(0.317)	2195	8.00000	6.65(AM)
186 n-Butyl acetate	43	7.965	7.965	(0.941)	7800	2.00000	2.47(aAM)
187 2-Etyhlhexyl Acrylate	55	12.319	12.319	(1.178)	633	2.00000	3.98(aAM)
188 Tetrahydrothiophene	60	7.962	7.962	(0.940)	4279	2.00000	2.54(aAM)
189 sec-Butyl Ether	57	7.406	7.406	(0.875)	3772	2.00000	0.48(aAM)
190 Isoprene	39	2.406	2.406	(0.469)	1099	2.00000	3.16(aAM)
191 2-Chloropropene	41	2.149	2.149	(0.419)	3879	2.00000	1.77(aA)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa7,i\P240615,b\X061504.D
Date : 15-JUN-2024 14:46
Client ID: VSTD002
Sample Info: VSTD002;VSTD002;1;3
Purge Volume: 5.0
Column phase: DB624

\\NAHSTWS005\Target\chem\voa7,i\P240615,b\X061504.D

Instrument: voa7,i
Operator: AP
Column diameter: 0.18

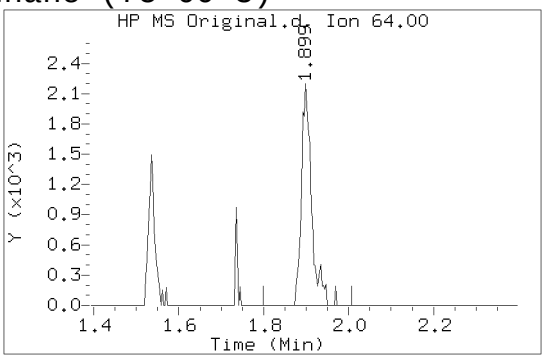
Page 1

Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061504.D
Inj Date : 15-JUN-2024 14:46
InstruID : voa7.i
LabSampID : VSTD002

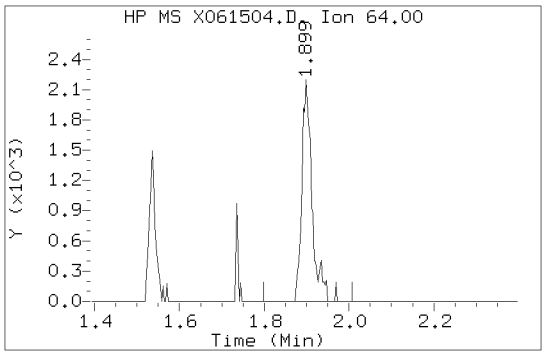
Chloroethane (75-00-3)

Reason Code:

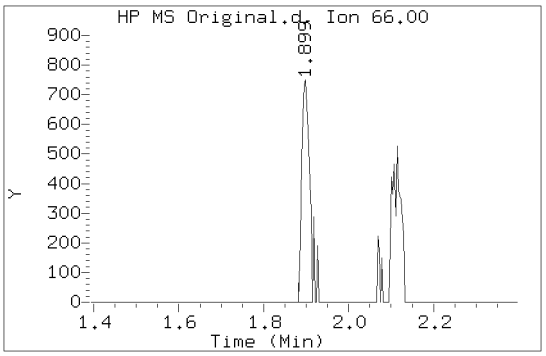
BEFORE
MASS
64
AREA
3631
HEIGHT
2199
12-Jul-2024
11:38
s
zaid



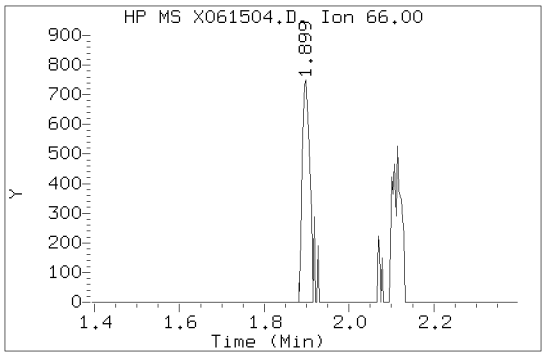
AFTER
MASS
64
AREA
3631
HEIGHT
2199
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
66
AREA
917
HEIGHT
750
12-Jul-2024
11:38
s
zaid



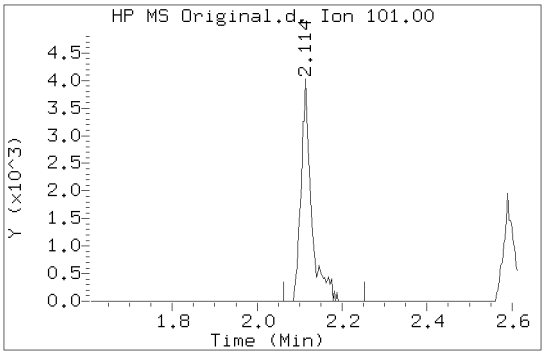
AFTER
MASS
66
AREA
917
HEIGHT
750
12-Jul-2024
11:38
s
zaid



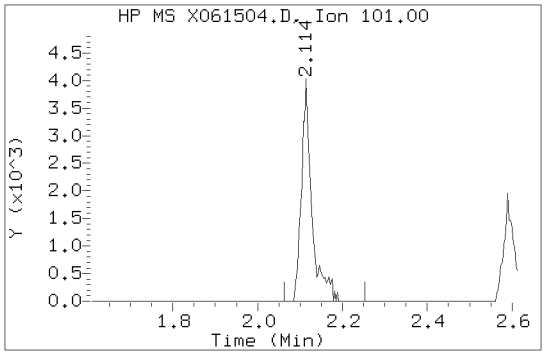
Trichlorofluoromethane (75-69-4)

Reason Code:

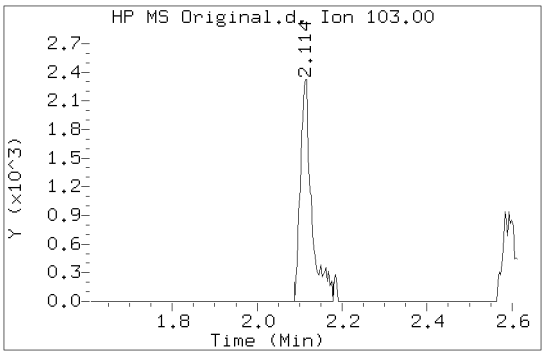
BEFORE
MASS
101
AREA
6842
HEIGHT
4030
12-Jul-2024
11:38
s
zaid



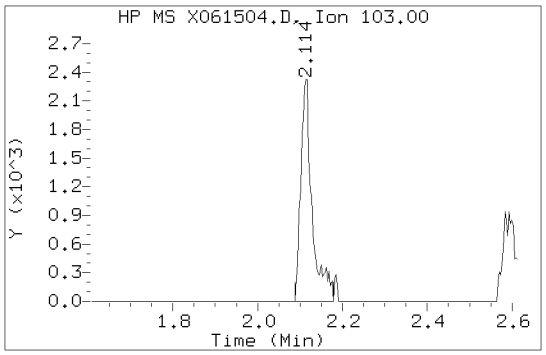
AFTER
MASS
101
AREA
6842
HEIGHT
4030
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
103
AREA
4287
HEIGHT
2322
12-Jul-2024
11:38
s
zaid



AFTER
MASS
103
AREA
4287
HEIGHT
2322
12-Jul-2024
11:38
s
zaid

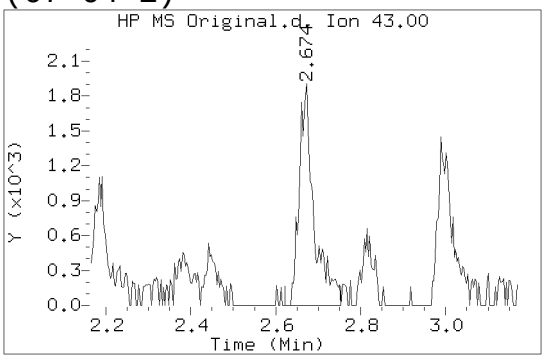


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061504.D
Inj Date : 15-JUN-2024 14:46
InstruID : voa7.i
LabSampID : VSTD002

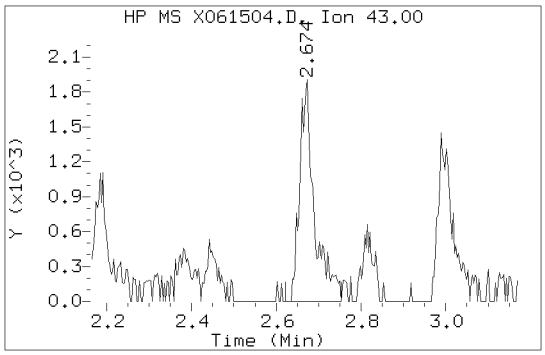
Acetone (67-64-1)

Reason Code:

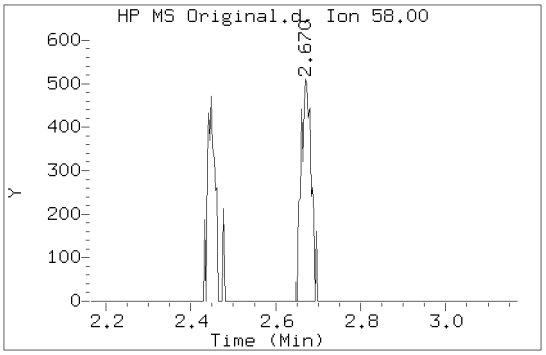
BEFORE
MASS
43
AREA
4581
HEIGHT
1906
12-Jul-2024
11:38
s
zaid



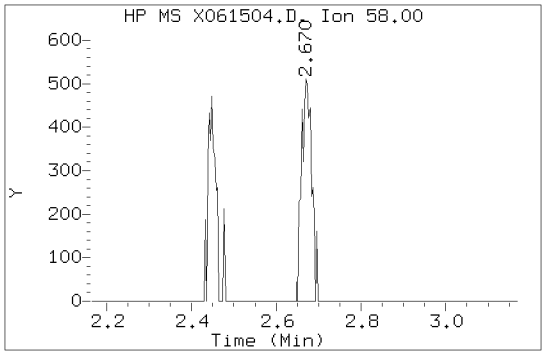
AFTER
MASS
43
AREA
4581
HEIGHT
1906
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
58
AREA
820
HEIGHT
511
12-Jul-2024
11:38
s
zaid



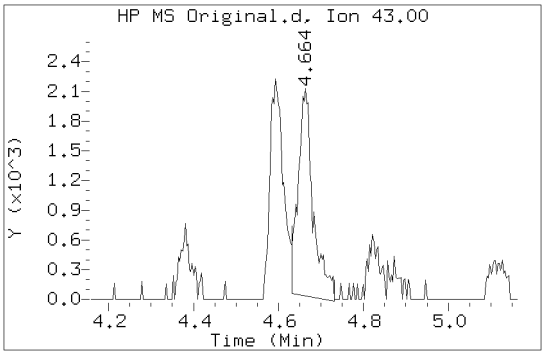
AFTER
MASS
58
AREA
820
HEIGHT
511
12-Jul-2024
11:38
s
zaid



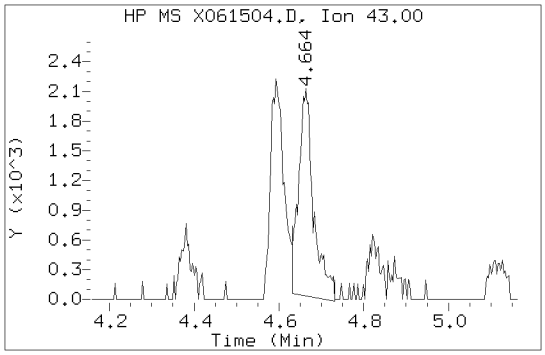
Vinyl Acetate (108-05-4)

Reason Code:

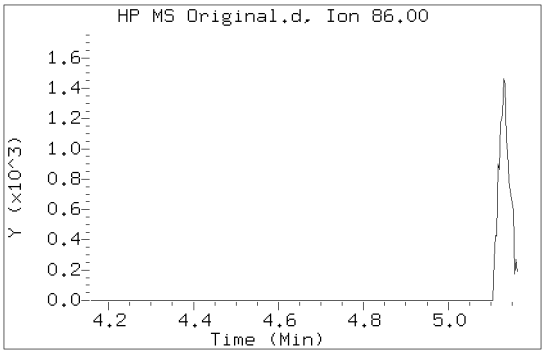
BEFORE
MASS
43
AREA
5183
HEIGHT
2094
12-Jul-2024
11:38
s
zaid



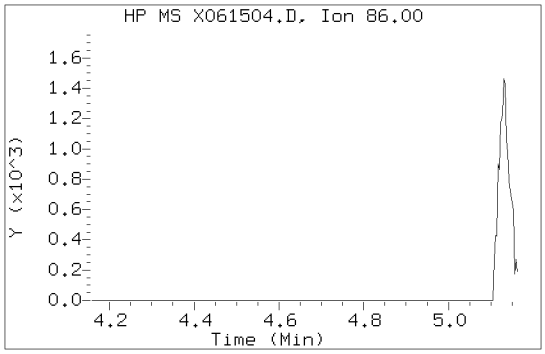
AFTER
MASS
43
AREA
5183
HEIGHT
2094
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
86
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER
MASS
86
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



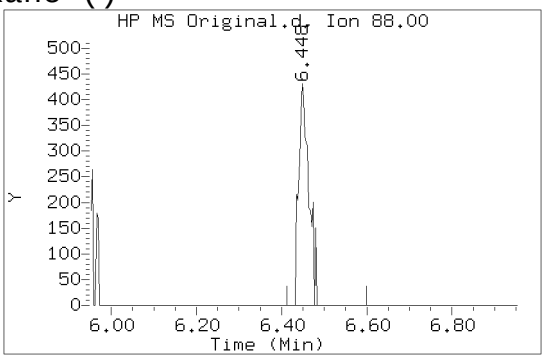
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061504.D
Inj Date : 15-JUN-2024 14:46
InstruID : voa7.i
LabSampID : VSTD002

1,4-Dioxane ()

Reason Code:

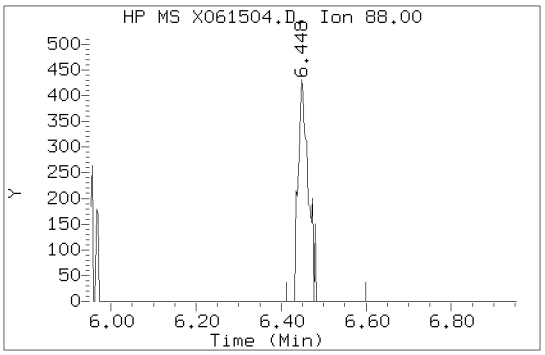
BEFORE

MASS
88
AREA
722
HEIGHT
431
12-Jul-2024
11:38
s
zaid



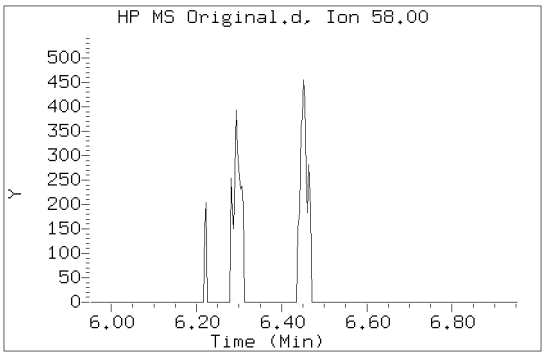
AFTER

MASS
88
AREA
722
HEIGHT
431
12-Jul-2024
11:38
s
zaid



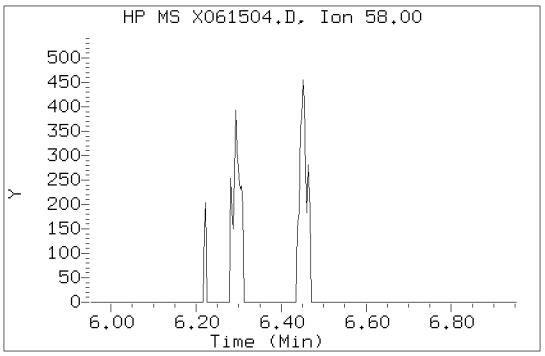
BEFORE

MASS
58
AREA
343
HEIGHT
310
12-Jul-2024
11:38
s
zaid



AFTER

MASS
58
AREA
343
HEIGHT
310
12-Jul-2024
11:38
s
zaid

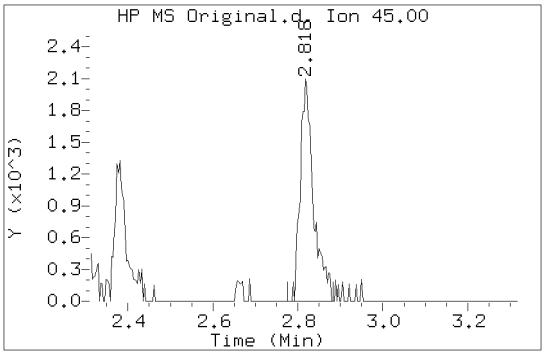


Isopropyl alcohol (67-63-0)

Reason Code:

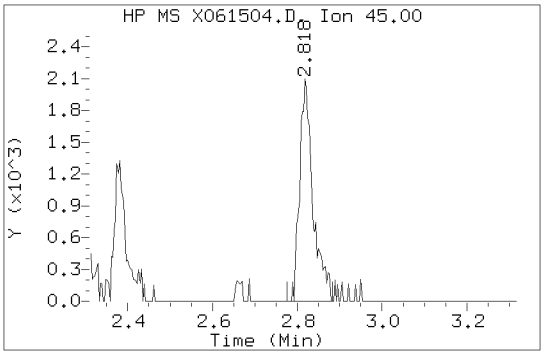
BEFORE

MASS
45
AREA
4553
HEIGHT
2097
12-Jul-2024
11:38
s
zaid



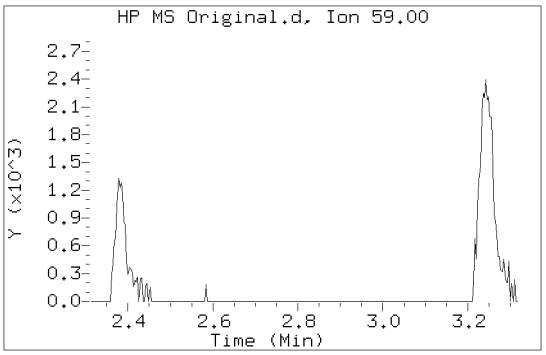
AFTER

MASS
45
AREA
4553
HEIGHT
2097
12-Jul-2024
11:38
s
zaid



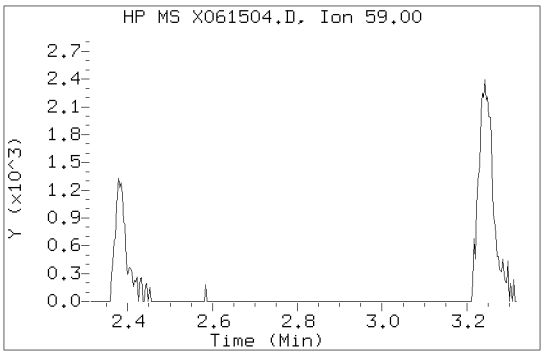
BEFORE

MASS
59
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
59
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

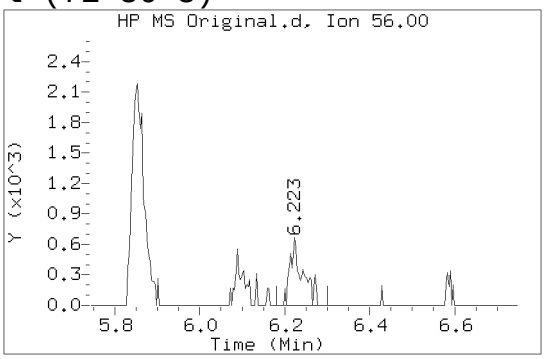


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061504.D
Inj Date : 15-JUN-2024 14:46
InstruID : voa7.i
LabSampID : VSTD002

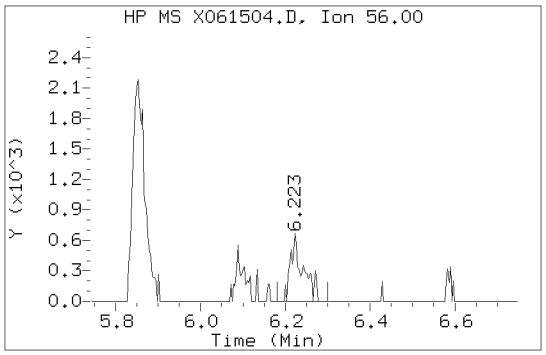
n-Butanol (71-36-3)

Reason Code:

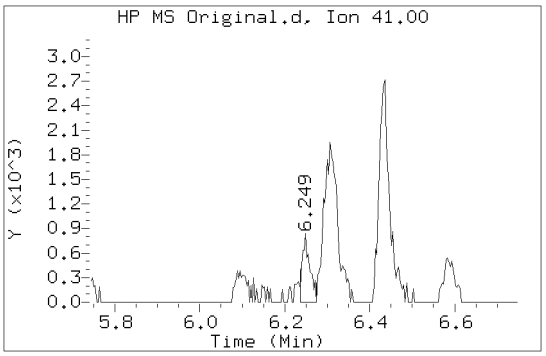
BEFORE
MASS
56
AREA
1394
HEIGHT
672
12-Jul-2024
11:38
s
zaid



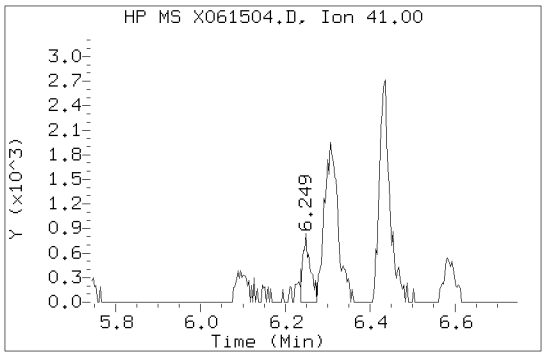
AFTER
MASS
56
AREA
1394
HEIGHT
672
12-Jul-2024
11:38
s
zaid



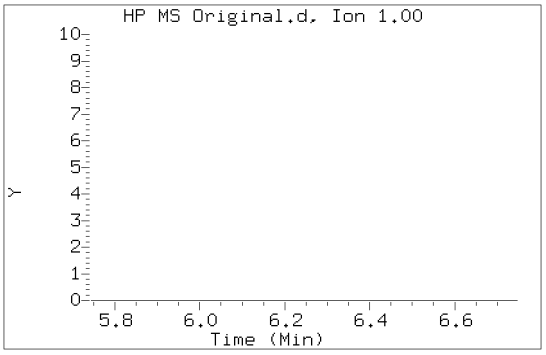
BEFORE
MASS
41
AREA
1030
HEIGHT
838
12-Jul-2024
11:38
s
zaid



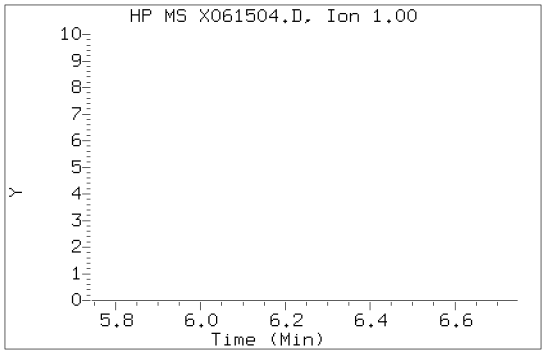
AFTER
MASS
41
AREA
1030
HEIGHT
838
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
1
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



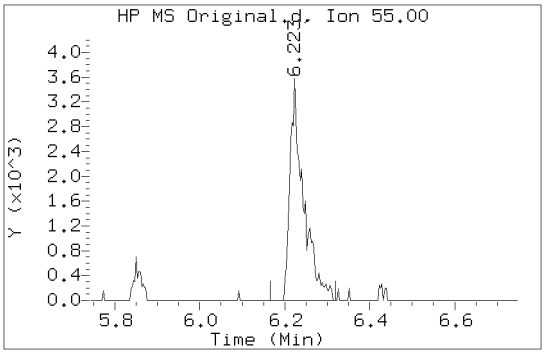
AFTER
MASS
1
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



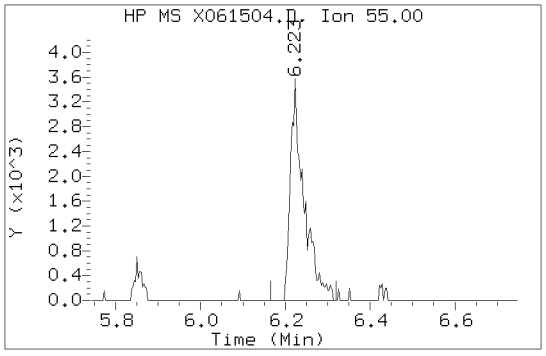
Ethyl Acrylate (140-88-5)

Reason Code:

BEFORE
MASS
55
AREA
7923
HEIGHT
3575
12-Jul-2024
11:38
s
zaid



AFTER
MASS
55
AREA
7923
HEIGHT
3575
12-Jul-2024
11:38
s
zaid

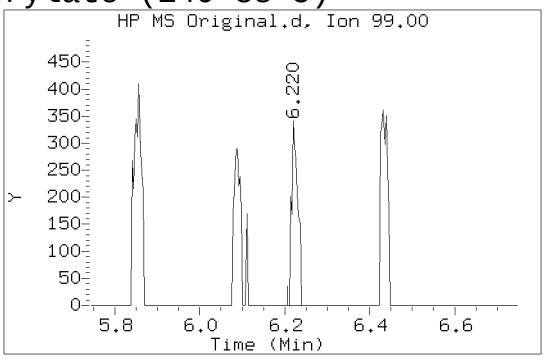


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061504.D
Inj Date : 15-JUN-2024 14:46
InstruID : voa7.i
LabSampID : VSTD002

Ethyl Acrylate (140-88-5)

BEFORE

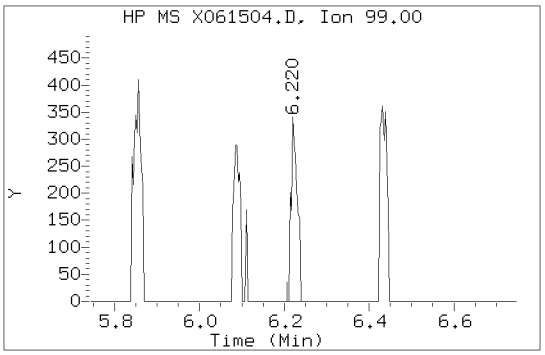
MASS
99
AREA
347
HEIGHT
342
12-Jul-2024
11:38
s
zaid



Reason Code:

AFTER

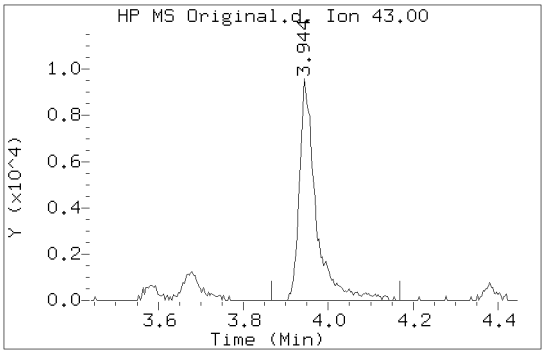
MASS
99
AREA
347
HEIGHT
342
12-Jul-2024
11:38
s
zaid



Ethyl Acetate (141-78-6)

BEFORE

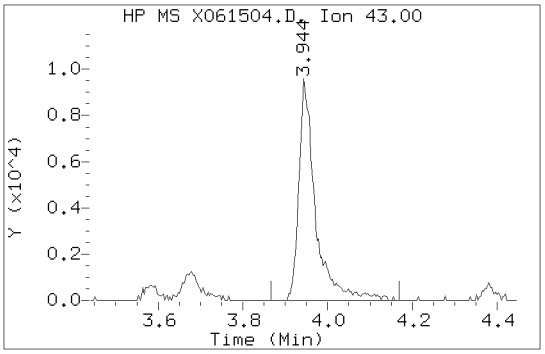
MASS
43
AREA
25930
HEIGHT
9589
12-Jul-2024
11:38
s
zaid



Reason Code:

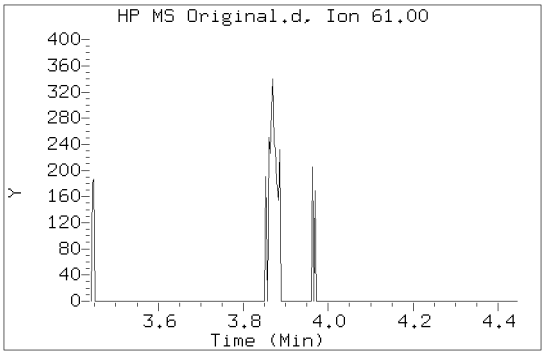
AFTER

MASS
43
AREA
25930
HEIGHT
9589
12-Jul-2024
11:38
s
zaid



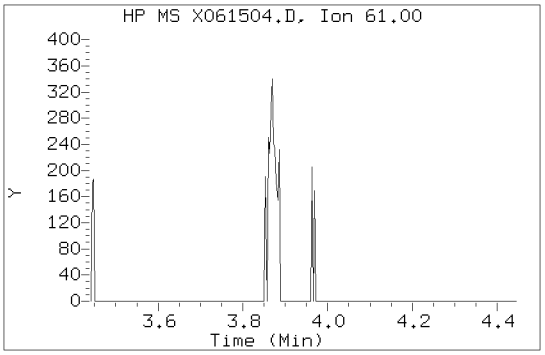
BEFORE

MASS
61
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



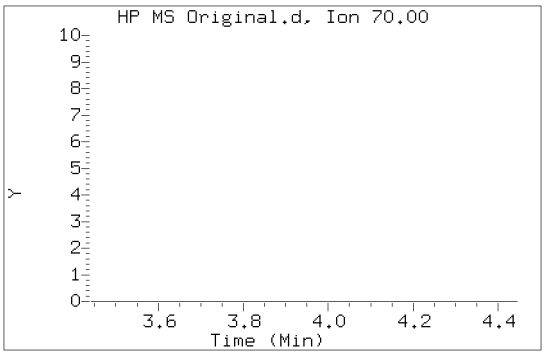
AFTER

MASS
61
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



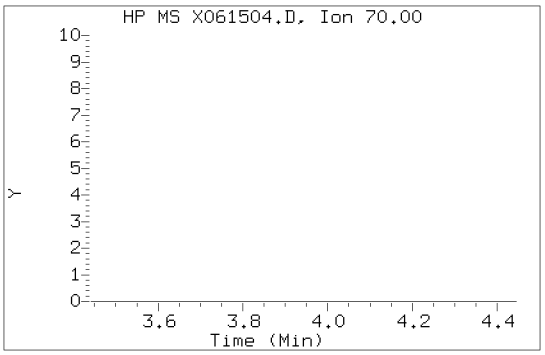
BEFORE

MASS
70
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
70
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



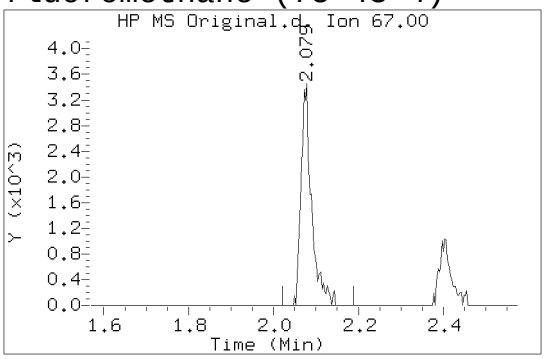
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061504.D
Inj Date : 15-JUN-2024 14:46
InstruID : voa7.i
LabSampID : VSTD002

Dichlorofluoromethane (75-43-4)

Reason Code:

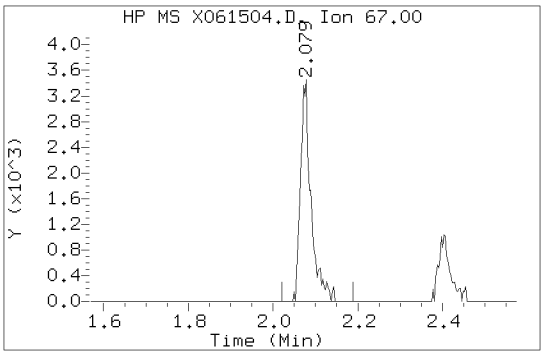
BEFORE

MASS
67
AREA
5948
HEIGHT
3453
12-Jul-2024
11:38
s
zaid



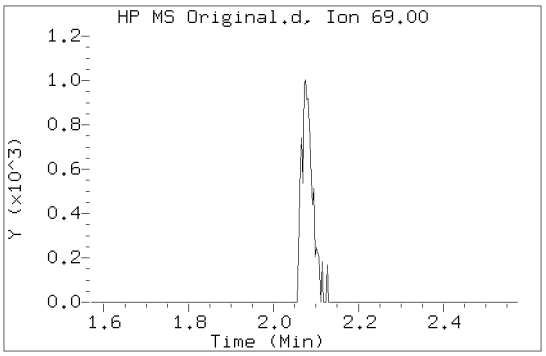
AFTER

MASS
67
AREA
5948
HEIGHT
3453
12-Jul-2024
11:38
s
zaid



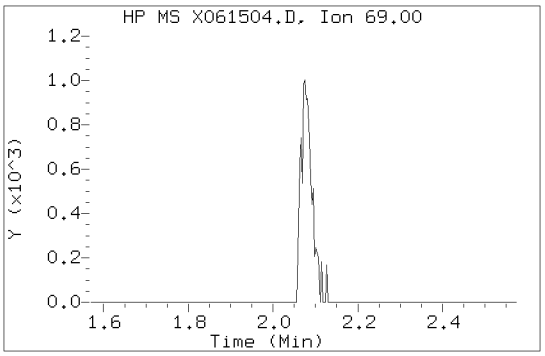
BEFORE

MASS
69
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



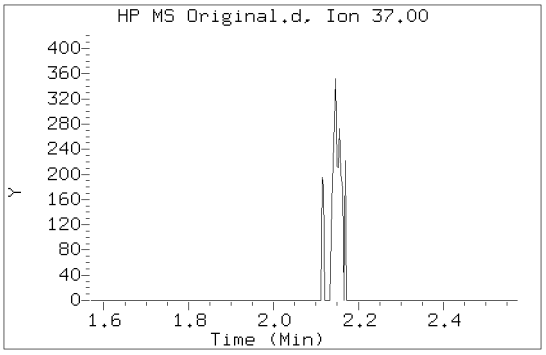
AFTER

MASS
69
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



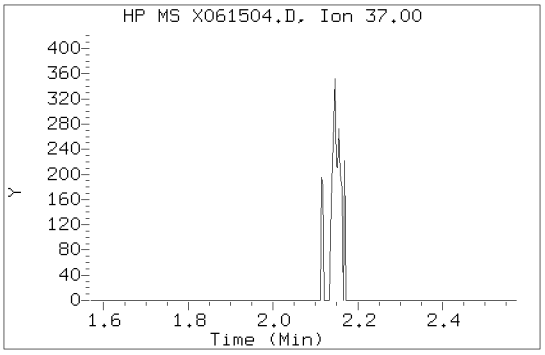
BEFORE

MASS
37
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
37
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

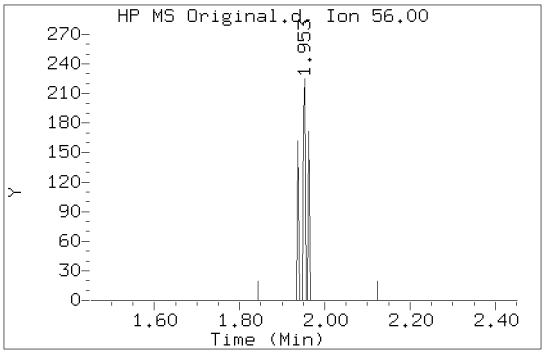


Isobutylene (115-11-7)

Reason Code:

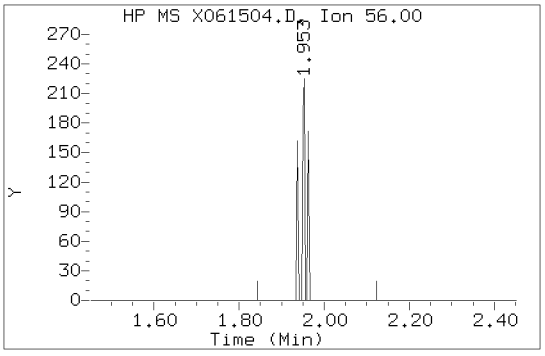
BEFORE

MASS
56
AREA
144
HEIGHT
225
12-Jul-2024
11:38
s
zaid



AFTER

MASS
56
AREA
144
HEIGHT
225
12-Jul-2024
11:38
s
zaid

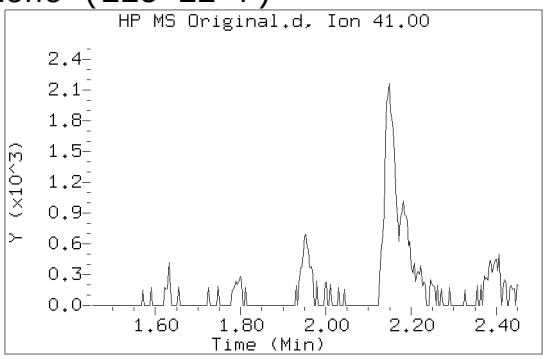


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061504.D
Inj Date : 15-JUN-2024 14:46
InstruID : voa7.i
LabSampID : VSTD002

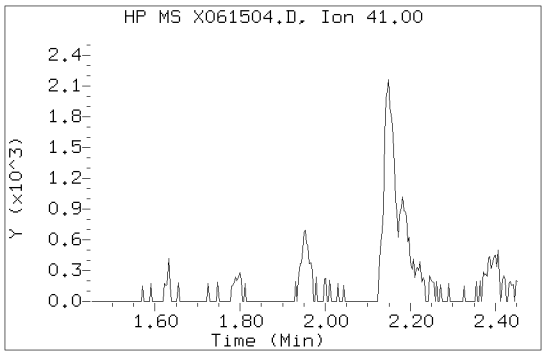
Isobutylene (115-11-7)

Reason Code:

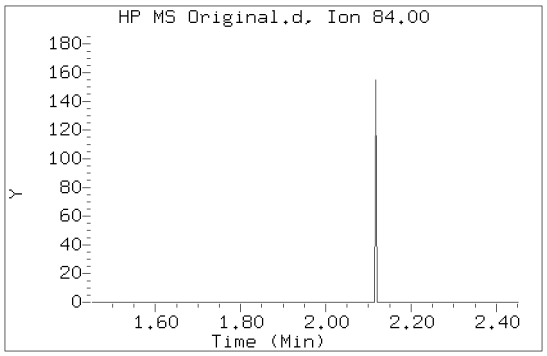
BEFORE
MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



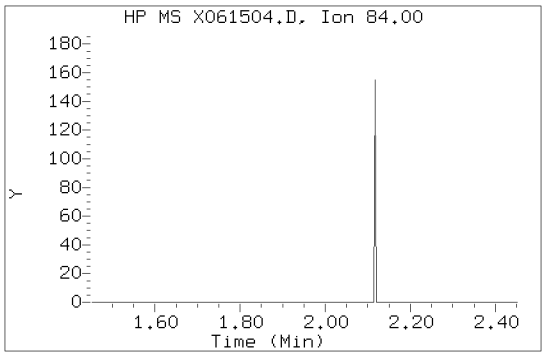
AFTER
MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
84
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



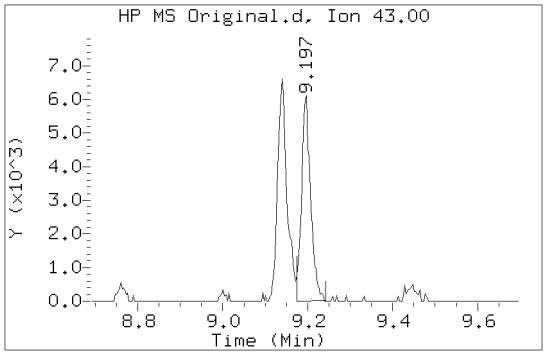
AFTER
MASS
84
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



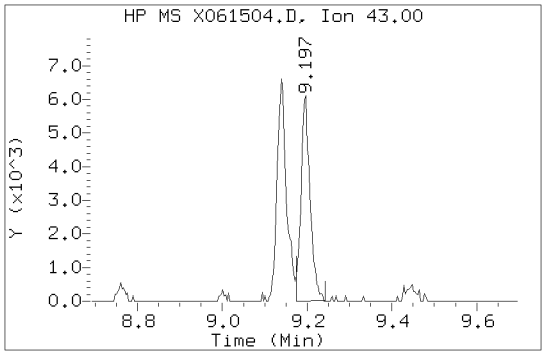
n-Amyl acetate (628-63-7)

Reason Code:

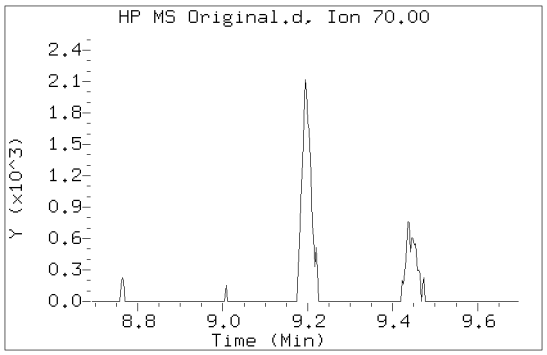
BEFORE
MASS
43
AREA
9084
HEIGHT
6100
12-Jul-2024
11:38
s
zaid



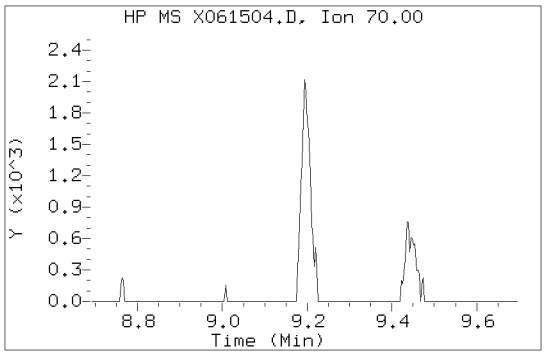
AFTER
MASS
43
AREA
9084
HEIGHT
6100
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
70
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER
MASS
70
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



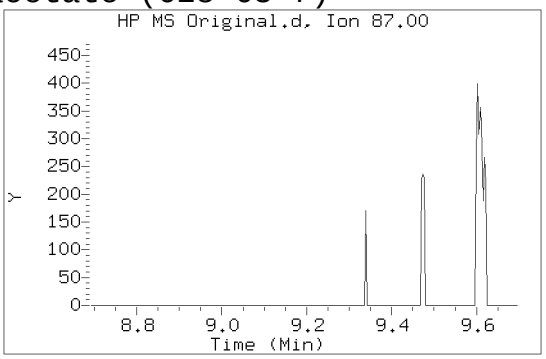
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061504.D
Inj Date : 15-JUN-2024 14:46
InstruID : voa7.i
LabSampID : VSTD002

n-Amyl acetate (628-63-7)

Reason Code:

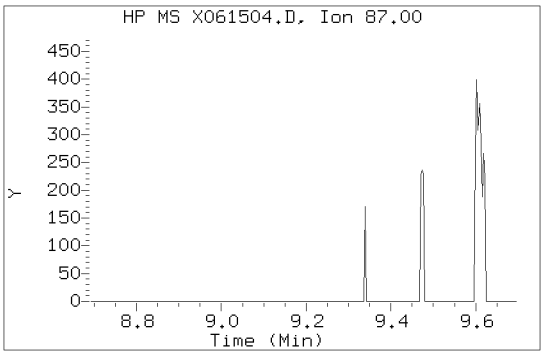
BEFORE

MASS
87
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
87
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

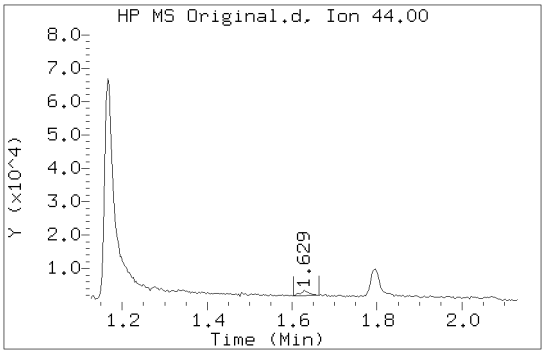


Acetaldehyde (75-07-0)

Reason Code:

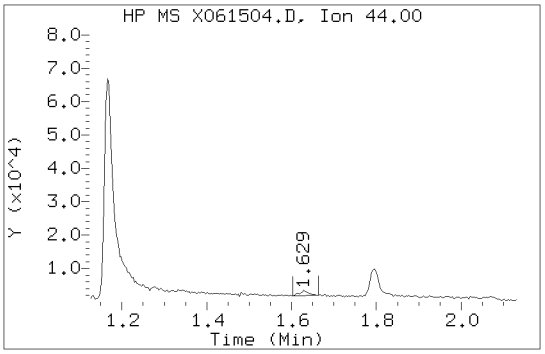
BEFORE

MASS
44
AREA
2195
HEIGHT
1619
12-Jul-2024
11:38
s
zaid



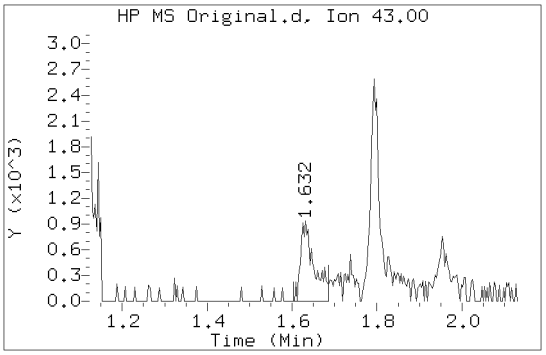
AFTER

MASS
44
AREA
2195
HEIGHT
1619
12-Jul-2024
11:38
s
zaid



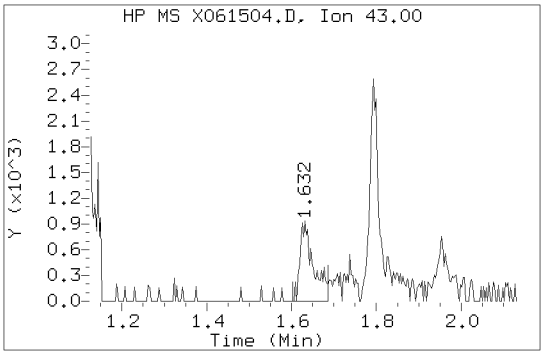
BEFORE

MASS
43
AREA
2080
HEIGHT
934
12-Jul-2024
11:38
s
zaid



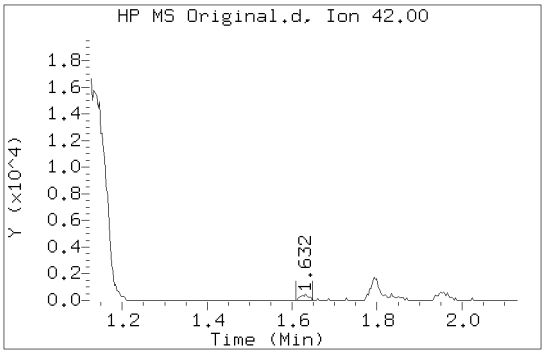
AFTER

MASS
43
AREA
2080
HEIGHT
934
12-Jul-2024
11:38
s
zaid



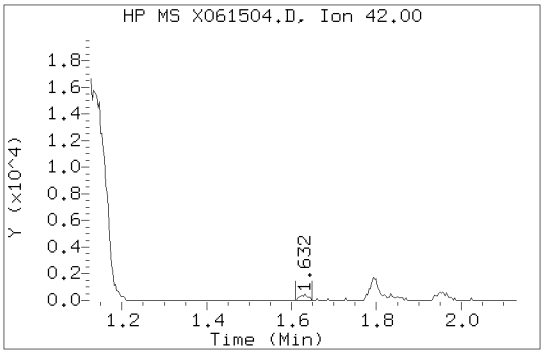
BEFORE

MASS
42
AREA
566
HEIGHT
477
12-Jul-2024
11:38
s
zaid



AFTER

MASS
42
AREA
566
HEIGHT
477
12-Jul-2024
11:38
s
zaid

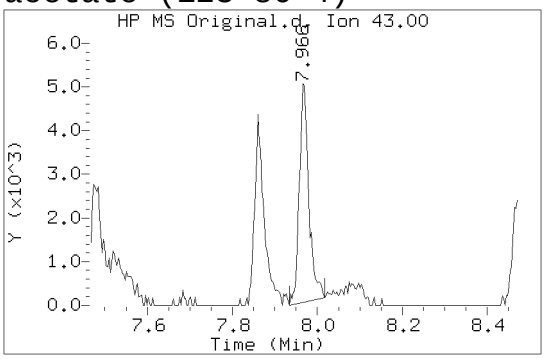


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061504.D
Inj Date : 15-JUN-2024 14:46
InstruID : voa7.i
LabSampID : VSTD002

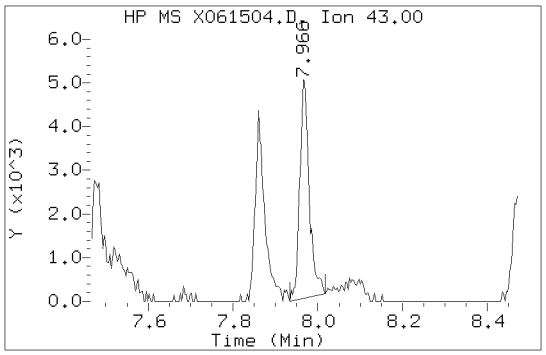
n-Butyl acetate (123-86-4)

Reason Code:

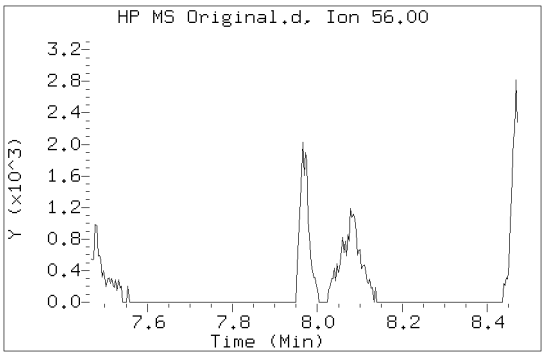
BEFORE
MASS
43
AREA
7800
HEIGHT
5002
12-Jul-2024
11:38
s
zaid



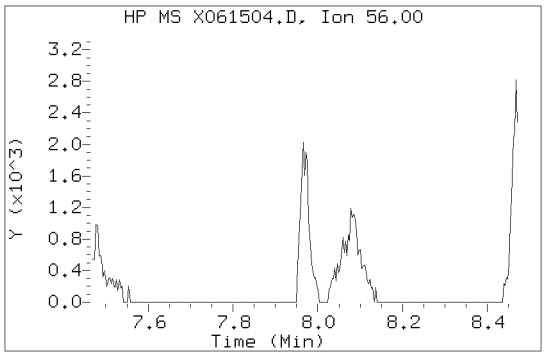
AFTER
MASS
43
AREA
7800
HEIGHT
5002
12-Jul-2024
11:38
s
zaid



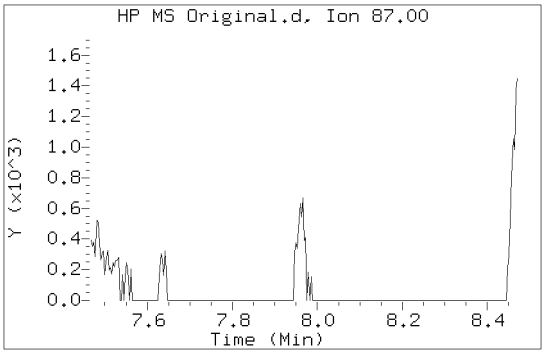
BEFORE
MASS
56
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



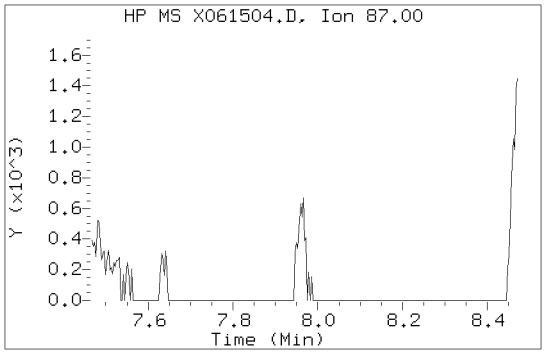
AFTER
MASS
56
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
87
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



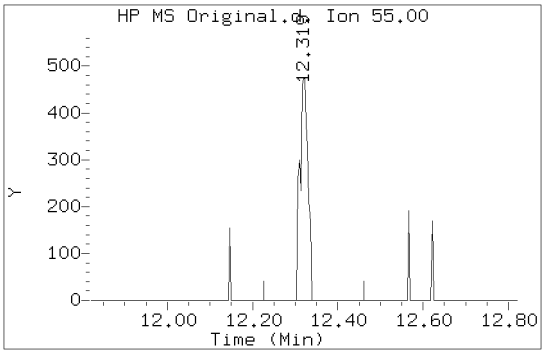
AFTER
MASS
87
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



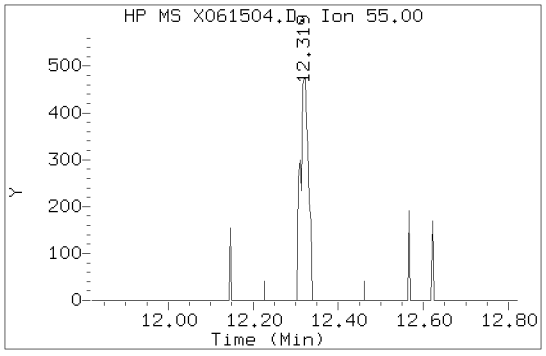
2-Etyhlhexyl Acrylate (103-11-7)

Reason Code:

BEFORE
MASS
55
AREA
633
HEIGHT
473
12-Jul-2024
11:38
s
zaid



AFTER
MASS
55
AREA
633
HEIGHT
473
12-Jul-2024
11:38
s
zaid



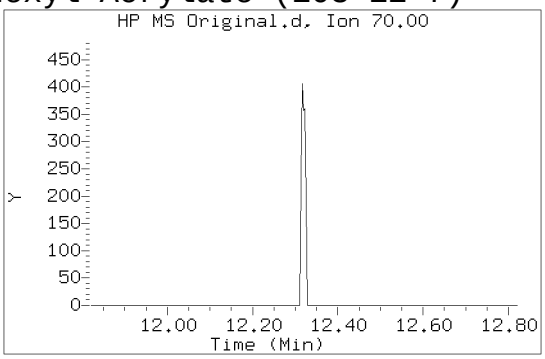
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061504.D
Inj Date : 15-JUN-2024 14:46
InstruID : voa7.i
LabSampID : VSTD002

2-Etyhlhexyl Acrylate (103-11-7)

Reason Code:

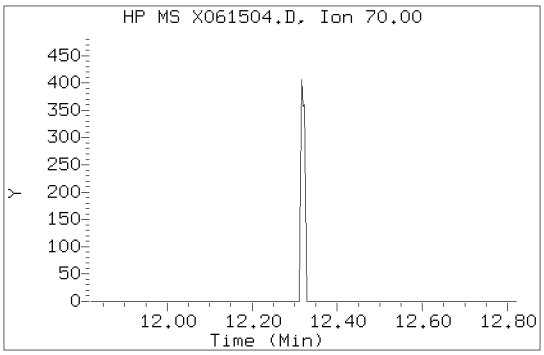
BEFORE

MASS
70
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
70
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

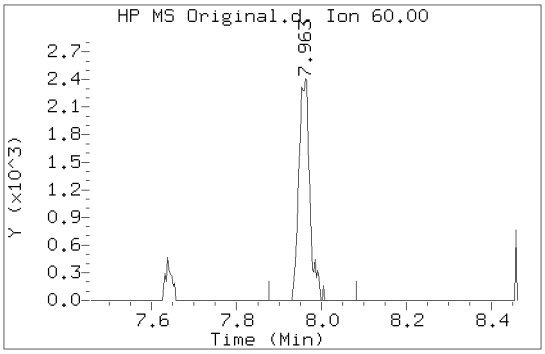


Tetrahydrothiophene (110-01-0)

Reason Code:

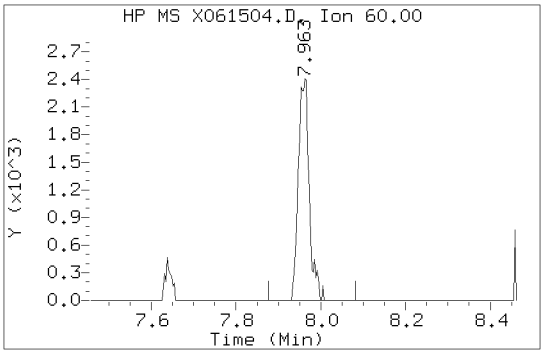
BEFORE

MASS
60
AREA
4279
HEIGHT
2408
12-Jul-2024
11:38
s
zaid



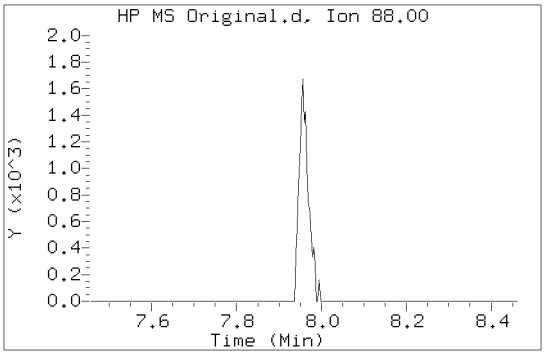
AFTER

MASS
60
AREA
4279
HEIGHT
2408
12-Jul-2024
11:38
s
zaid



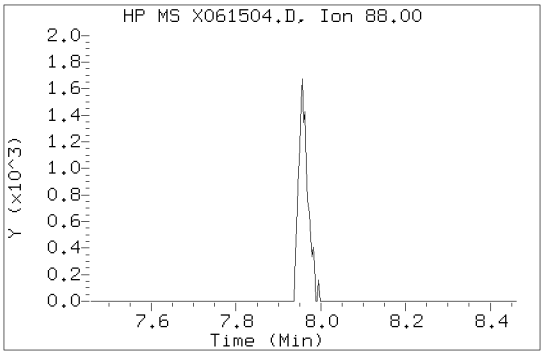
BEFORE

MASS
88
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



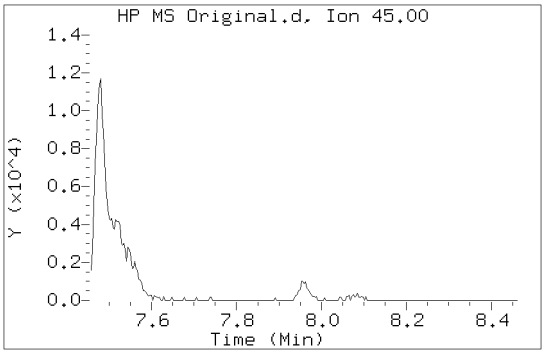
AFTER

MASS
88
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



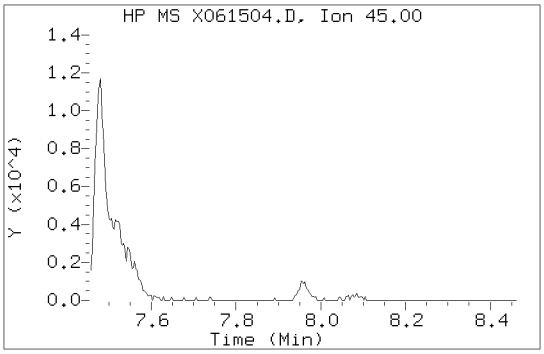
BEFORE

MASS
45
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
45
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

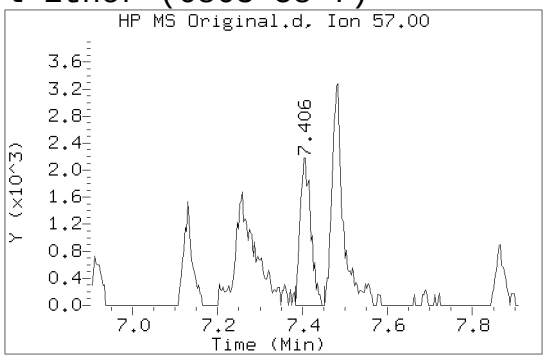


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061504.D
Inj Date : 15-JUN-2024 14:46
InstruID : voa7.i
LabSampID : VSTD002

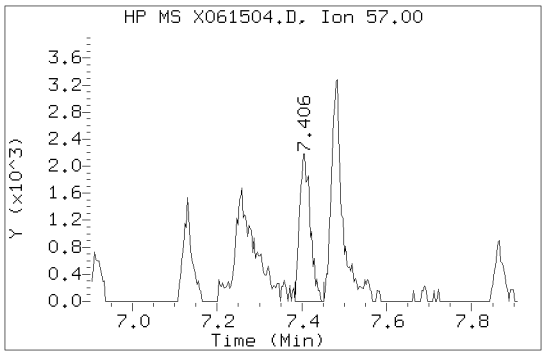
sec-Butyl Ether (6863-58-7)

Reason Code:

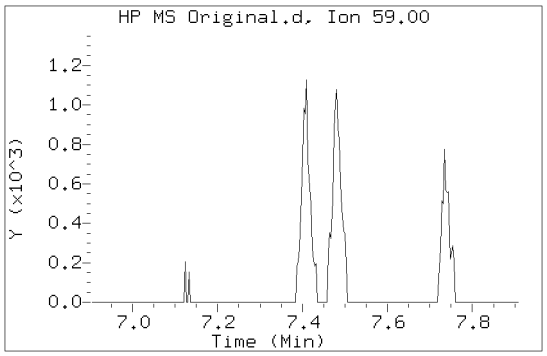
BEFORE
MASS
57
AREA
3772
HEIGHT
2185
12-Jul-2024
11:38
s
zaid



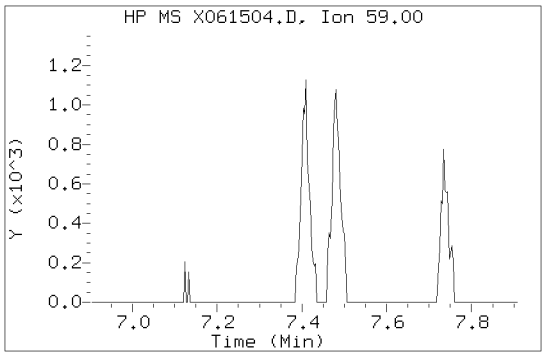
AFTER
MASS
57
AREA
3772
HEIGHT
2185
12-Jul-2024
11:38
s
zaid



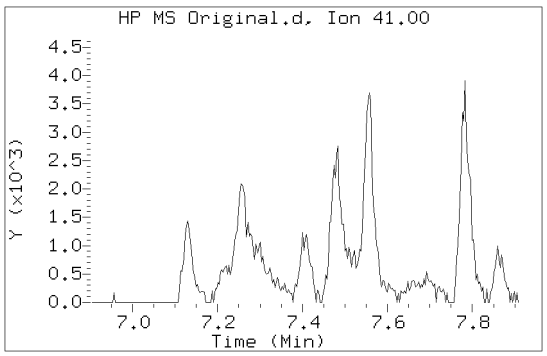
BEFORE
MASS
59
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



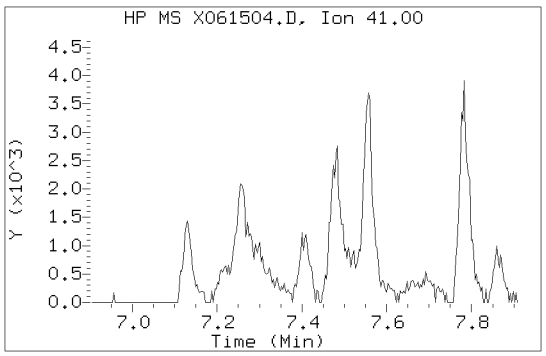
AFTER
MASS
59
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



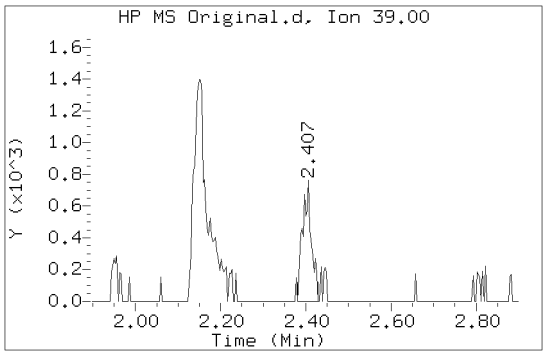
AFTER
MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



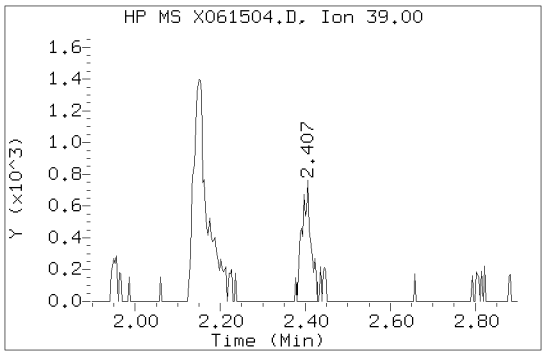
Isoprene (78-79-5)

Reason Code:

BEFORE
MASS
39
AREA
1099
HEIGHT
762
12-Jul-2024
11:38
s
zaid



AFTER
MASS
39
AREA
1099
HEIGHT
762
12-Jul-2024
11:38
s
zaid

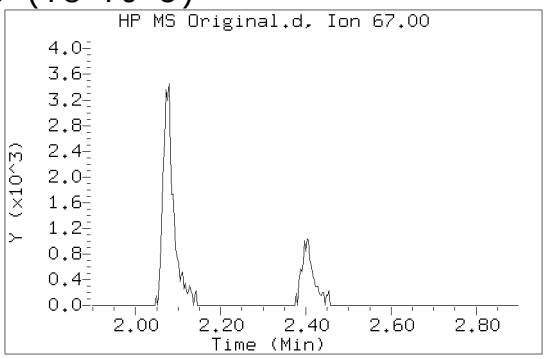


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061504.D
Inj Date : 15-JUN-2024 14:46
InstruID : voa7.i
LabSampID : VSTD002

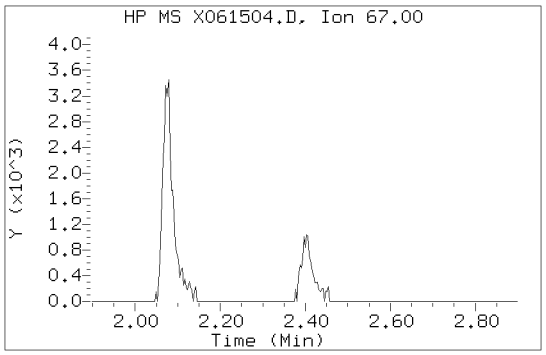
Isoprene (78-79-5)

Reason Code:

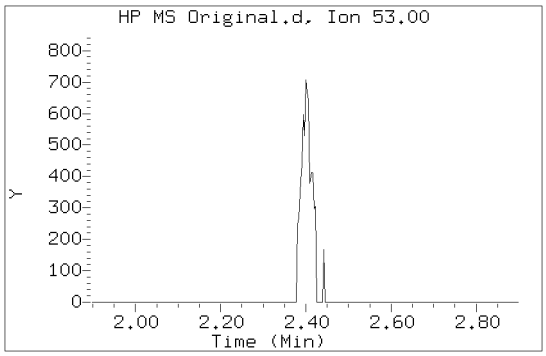
BEFORE
MASS
67
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



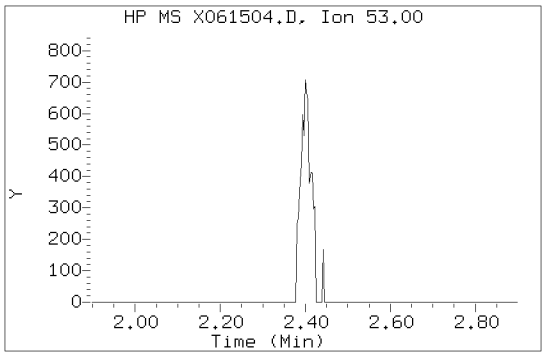
AFTER
MASS
67
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
53
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER
MASS
53
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061505.D Page 1
Report Date: 12-Jul-2024 11:38

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061505.D
Lab Smp Id: VSTD005 Client Smp ID: VSTD005
Inj Date : 15-JUN-2024 15:09
Operator : AP Inst ID: voa7.i
Smp Info : VSTD005;VSTD005;1;4
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240615.b\8260W.m
Meth Date : 12-Jul-2024 11:38 voa7.i Quant Type: ISTD
Cal Date : 15-JUN-2024 14:46 Cal File: X061504.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	5.133	5.133	(1.000)	125535	50.0000	
2 Dichlorodifluoromethane	85	1.297	1.297	(0.253)	7225	5.00000	5.11
159 Dichlorofluoromethane	67	2.072	2.072	(0.404)	13800	5.00000	5.27
3 Chloromethane	50	1.448	1.448	(0.282)	11605	5.00000	5.13
4 Propionitrile	54	4.670	4.670	(0.910)	8704	50.0000	42.47
5 Vinyl Chloride	62	1.535	1.535	(0.299)	9844	5.00000	5.43
6 Bromomethane	94	1.808	1.808	(0.352)	5926	5.00000	4.98
7 Chloroethane	64	1.898	1.898	(0.370)	6277	5.00000	5.46
8 Trichlorofluoromethane	101	2.110	2.110	(0.411)	13237	5.00000	5.45
9 Acrolein	56	2.522	2.522	(0.491)	323	10.0000	9.13
10 Acetone	43	2.670	2.670	(0.520)	6604	10.0000	10.04
11 1,1-Dichloroethene	96	2.593	2.593	(0.505)	6851	5.00000	5.44
12 Isobutyl Alcohol	43	5.570	5.570	(1.085)	23318	100.000	95.18
13 Acetonitrile	39	2.966	2.966	(0.578)	10962	50.0000	50.76
14 Allyl Chloride	41	2.959	2.959	(0.577)	21819	5.00000	4.55
15 Iodomethane	142	2.744	2.744	(0.535)	13007	10.0000	11.46
16 Acrylonitrile	53	3.384	3.384	(0.659)	3482	10.0000	7.03
17 Methylene Chloride	84	3.091	3.091	(0.602)	9761	5.00000	5.00
18 Methyl tert-butyl ether	73	3.384	3.384	(0.659)	18018	5.00000	5.31
19 Carbon Disulfide	76	2.795	2.795	(0.545)	45001	10.0000	10.83

20 trans-1,2-Dichloroethene	96	3.377	3.377 (0.658)	7190	5.00000	5.11
21 Vinyl Acetate	43	4.660	4.660 (0.908)	9154	10.0000	9.96(M)

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061505.D Page 2
Report Date: 12-Jul-2024 11:38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
22	1,1-Dichloroethane	63	3.859	3.859	(0.752)	14844	5.00000	5.02
23	Chloroprene	53	3.969	3.969	(0.773)	12691	5.00000	5.38
24	2-Butanone	43	4.599	4.599	(0.896)	8477	10.0000	10.57
25	Methacrylonitrile	41	2.146	2.146	(0.418)	11271	5.00000	5.38
26	2,2-Dichloropropane	77	4.531	4.531	(0.883)	12743	5.00000	5.08
27	cis-1,2-Dichloroethene	96	4.544	4.544	(0.885)	8496	5.00000	5.19
28	Chloroform	83	4.904	4.904	(0.956)	14700	5.00000	4.78
29	Bromochloromethane	128	4.811	4.811	(0.937)	3897	5.00000	4.97
$ 30	Dibromofluoromethane	113	5.075	5.075	(0.989)	7541	5.00000	4.64
31	1,1,1-Trichloroethane	97	5.072	5.072	(0.988)	11751	5.00000	4.98
32	1,1-Dichloropropene	75	5.245	5.245	(0.896)	11612	5.00000	5.87
33	1,2-Dichloroethane	62	5.490	5.490	(0.938)	12357	5.00000	5.16
34	Carbon Tetrachloride	117	5.236	5.236	(0.895)	10309	5.00000	5.88
$ 35	1,2-Dichloroethane-d4	65	5.416	5.416	(1.055)	9398	5.00000	4.46
* 36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	205490	50.0000	
37	Benzene	78	5.458	5.458	(0.932)	31340	5.00000	5.29
38	Trichloroethene	130	6.088	6.088	(1.040)	8145	5.00000	5.62
39	Bromodichloromethane	83	6.570	6.570	(1.122)	11228	5.00000	4.90
40	Methyl Methacrylate	41	6.432	6.432	(1.253)	8143	5.00000	4.50
41	2-Chloroethylvinyl ether	63	6.859	6.859	(1.172)	5890	10.0000	9.59
42	1,2-Dichloropropane	63	6.310	6.310	(1.078)	8231	5.00000	4.83
43	2-Nitropropane	43	6.802	6.802	(1.325)	2378	5.00000	5.59
44	Dibromomethane	93	6.416	6.416	(1.096)	4876	5.00000	5.37
45	4-Methyl-2-Pentanone	43	7.129	7.129	(0.842)	18025	10.0000	10.51
46	cis-1,3-Dichloropropene	75	6.978	6.978	(1.192)	12123	5.00000	5.76
* 47	Chlorobenzene-d5	117	8.467	8.467	(1.000)	198496	50.0000	
$ 48	Toluene-d8	98	7.203	7.203	(0.851)	25974	5.00000	4.14
49	Ethyl Methacrylate	69	8.078	8.078	(1.380)	8382	5.00000	4.84
50	Toluene	91	7.265	7.265	(0.858)	32403	5.00000	4.97
51	trans-1,3-Dichloropropene	75	6.978	6.978	(1.192)	12123	5.00000	5.76
52	2-Hexanone	43	7.863	7.863	(0.929)	11468	10.0000	8.76
53	1,1,2-Trichloroethane	83	7.637	7.637	(0.902)	6253	5.00000	4.91
54	1,3-Dichloropropane	76	7.782	7.782	(0.919)	13167	5.00000	4.88
55	Dibromochloromethane	129	7.978	7.978	(0.942)	7802	5.00000	4.79
56	Tetrachloroethene	164	7.740	7.740	(0.914)	6024	5.00000	5.28
57	1,2-Dibromoethane	107	8.068	8.068	(0.953)	6959	5.00000	5.14
58	1-Chlorohexane	55	8.467	8.467	(1.447)	9909	5.00000	4.95
59	Chlorobenzene	112	8.493	8.493	(1.003)	22124	5.00000	5.17
60	1,1,1,2-Tetrachloroethane	131	8.563	8.563	(1.011)	7002	5.00000	5.50
61	Ethylbenzene	106	8.586	8.586	(1.014)	11221	5.00000	5.18
62	m,p-Xylenes	106	8.682	8.682	(1.025)	27245	10.0000	9.99
63	o-Xylene	106	9.023	9.023	(1.066)	13725	5.00000	5.06
64	Styrene	104	9.039	9.039	(1.068)	23337	5.00000	4.96
66	Bromoform	173	9.207	9.207	(1.087)	4925	5.00000	4.80
67	Isopropylbenzene	105	9.338	9.338	(1.103)	33644	5.00000	5.12
68	1,1,2,2-Tetrachloroethane	83	9.608	9.608	(0.919)	9701	5.00000	5.26
$ 69	4-Bromofluorobenzene	95	9.473	9.473	(1.119)	12049	5.00000	4.54
* 70	1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	97733	50.0000	
71	1,2,3-Trichloropropane	75	9.647	9.647	(0.923)	11078	5.00000	5.44
72	trans-1,4-Dichloro-2-butene	53	9.653	9.653	(1.140)	2178	5.00000	5.19
73	n-Propylbenzene	91	9.689	9.689	(0.927)	40578	5.00000	5.57
74	Bromobenzene	156	9.602	9.602	(0.918)	8991	5.00000	5.48

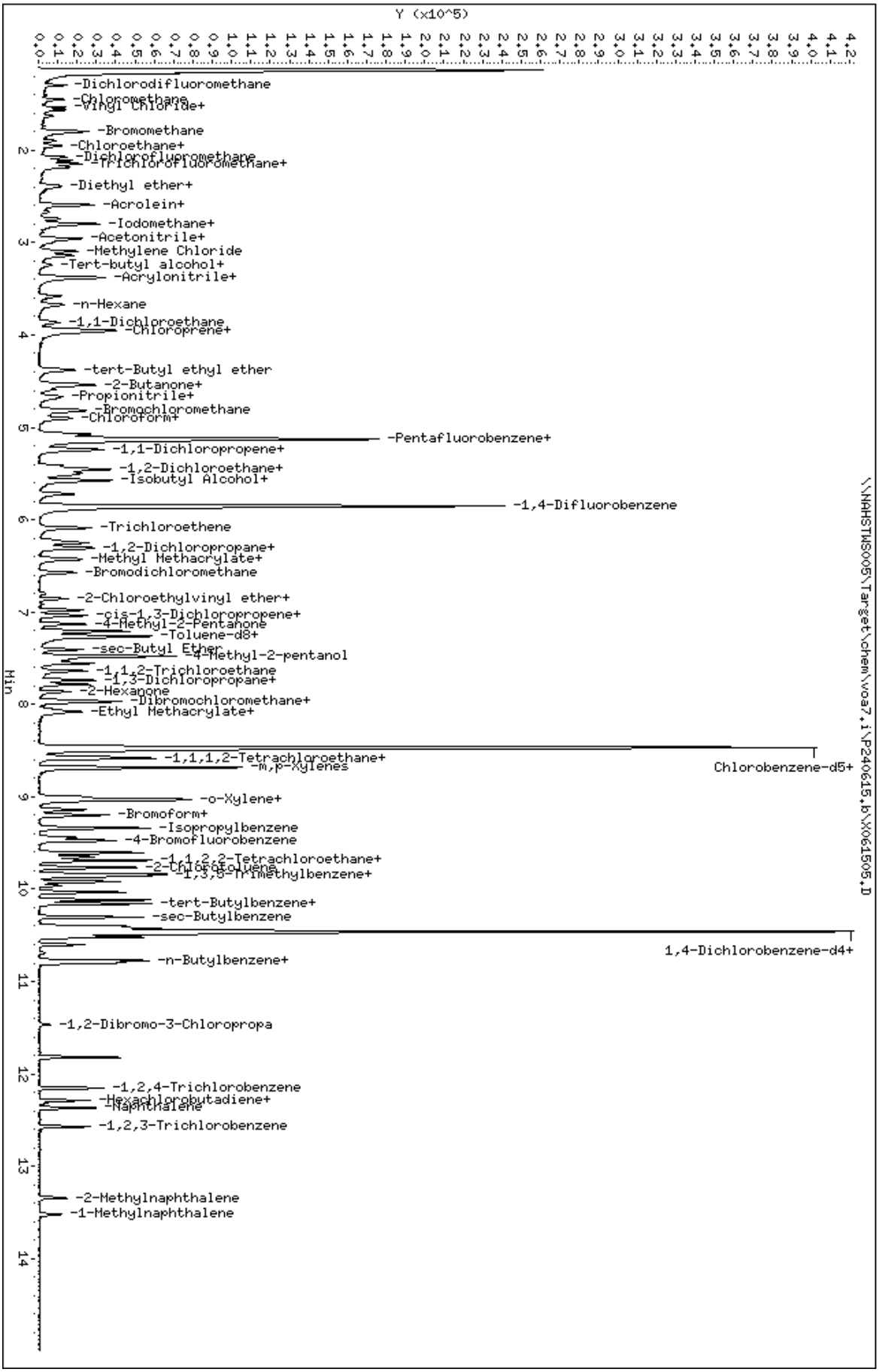
75	1,3,5-Trimethylbenzene	105	9.837	9.837 (0.941)	29207	5.00000	5.75
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	25653	5.00000	5.37

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061505.D Page 3
Report Date: 12-Jul-2024 11:38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
77	4-Chlorotoluene	91	9.859	9.859	(0.943)	30030	5.00000	5.49
78	tert-Butylbenzene	119	10.116	10.116	(0.967)	24227	5.00000	5.41
79	1,2,4-Trimethylbenzene	105	10.155	10.155	(0.971)	28869	5.00000	5.44
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	32307	5.00000	5.59
82	p-Isopropyltoluene	119	10.425	10.425	(0.997)	28883	5.00000	5.54
83	1,3-Dichlorobenzene	146	10.403	10.403	(0.995)	16526	5.00000	5.53
84	1,4-Dichlorobenzene	146	10.477	10.477	(1.002)	17198	5.00000	5.37
87	n-Butylbenzene	91	10.772	10.772	(1.030)	26108	5.00000	5.17
88	1,2-Dichlorobenzene	146	10.798	10.798	(1.033)	14740	5.00000	5.06
89	1,2-Dibromo-3-Chloropropane	75	11.460	11.460	(1.096)	1305	5.00000	4.51
90	1,2,4-Trichlorobenzene	180	12.155	12.155	(1.162)	9039	5.00000	5.61
91	Hexachlorobutadiene	225	12.290	12.290	(1.175)	4213	5.00000	5.40
92	Naphthalene	128	12.367	12.367	(1.183)	19723	5.00000	4.70
93	1,2,3-Trichlorobenzene	182	12.573	12.573	(1.202)	7315	5.00000	4.79
135	1,4-Dioxane	88	6.451	6.451	(1.257)	1050	100.000	90.21(M)
146	Methyl acetate	43	2.998	2.998	(0.584)	5521	5.00000	4.61(a)
138	Freon TF	101	2.593	2.593	(0.505)	6709	5.00000	5.51
139	Diethyl ether	59	2.377	2.377	(0.463)	4126	5.00000	4.50
140	1,3-Butadiene	54	1.564	1.564	(0.305)	3822	5.00000	5.37
141	Cyclohexane	56	5.113	5.113	(0.996)	14123	5.00000	5.75
147	Methylcyclohexane	83	6.245	6.245	(1.067)	9878	5.00000	6.65
132	n-Butanol	56	6.255	6.255	(1.219)	4028	100.000	100.76(T)
131	Methyl Acrylate	55	4.692	4.692	(0.914)	7951	5.00000	4.63
133	Ethyl Acrylate	55	6.245	6.245	(1.217)	18272	5.00000	5.17
136	n-Hexane	57	3.676	3.676	(0.716)	7851	5.00000	5.55
142	Tetrahydrofuran	42	4.866	4.866	(0.948)	2220	10.0000	10.80
148	Tert-butyl alcohol	59	3.242	3.242	(0.632)	9103	100.000	98.25
149	Isopropyl alcohol	45	2.818	2.818	(0.549)	7128	100.000	85.32(M)
151	4-Methyl-2-pentanol	45	7.477	7.477	(0.883)	52716	100.000	95.57
166	1,2,3-Trimethylbenzene	105	10.518	10.518	(1.006)	25001	5.00000	4.96
167	Ethanol	45	2.300	2.300	(0.448)	1493	100.000	113.43
172	tert-Butyl formate	59	3.242	3.242	(0.632)	9103	10.0000	9.52
173	3,3-Dimethyl-1-butanol	57	8.088	8.088	(0.955)	9707	100.000	80.94
174	tert-Amyl methyl ether	73	5.573	5.573	(1.086)	20716	5.00000	5.24
175	tert-Butyl ethyl ether	59	4.384	4.384	(0.854)	20056	5.00000	4.68
157	2-Methylnaphthalene	142	13.345	13.345	(1.276)	7014	5.00000	4.59
156	Diisopropyl ether	45	3.950	3.950	(0.769)	24035	5.00000	4.82(T)
171	1-Methylnaphthalene	142	13.525	13.525	(1.293)	5970	5.00000	4.42
130	Ethyl Acetate	43	3.943	3.943	(0.768)	44597	5.00000	5.22(T)
176	tert-Amyl alcohol	59	5.512	5.512	(1.074)	7972	100.000	85.26
160	Epichlorohydrin	57	6.917	6.917	(1.182)	1794	20.0000	21.33
161	Butyl acrylate	55	8.998	8.998	(1.063)	16083	5.00000	4.99(a)
182	Isobutylene	56	1.950	1.950	(0.380)	901	5.00000	5.37(AM)
183	Isopropyl Acetate	43	5.570	5.570	(0.952)	23318	5.00000	5.11(A)
184	n-Amyl acetate	43	9.194	9.194	(1.086)	16091	5.00000	5.43(AM)
185	Acetaldehyde	44	1.625	1.625	(0.317)	4414	20.0000	17.97(AM)
186	n-Butyl acetate	43	7.969	7.969	(0.941)	12732	5.00000	4.63(aAM)
187	2-Etyhlhexyl Acrylate	55	12.319	12.319	(1.178)	1446	5.00000	4.61(aAM)
188	Tetrahydrothiophene	60	7.959	7.959	(0.940)	7400	5.00000	4.56(aAM)
189	sec-Butyl Ether	57	7.406	7.406	(0.875)	8224	5.00000	4.03(aAM)
190	Isoprene	39	2.403	2.403	(0.468)	2371	5.00000	6.46(AM)
191	2-Chloropropene	41	2.146	2.146	(0.418)	11271	5.00000	5.21(A)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.


Y (x10^5)
-Dichlorodifluoromethane
-Chloromethane
-Vinyl Chloride+
-Bromomethane
-Chloroethane+
-Dichlorofluoromethane
-Trichlorofluoromethane+
-Diethyl ether+
-Acrolein+
-Iodomethane+
-Acetonitrile+
-Methylene Chloride
-Tert-butyl alcohol+
-Acrylonitrile+
-n-Hexane
-1,1-Dichloroethane
-Chloroprene+
-tert-Butyl ethyl ether
-2-Butanone+
-Propionitrile+
-Bromochloromethane
-Chloroform+
-Pentafluorobenzene+
-1,1-Dichloropropene+
-1,2-Dichloroethane+
-Isobutyl Alcohol+
-1,4-Difluorobenzene
-Trichloroethene
-1,2-Dichloropropane+
-Methyl Methacrylate+
-Bromodichloromethane
-2-Chloroethylvinyl ether+
-cis-1,3-Dichloropropene+
-4-Methyl-2-Pentanone
-Toluene-d8+
-sec-Butyl Ether
-4-Methyl-2-pentanol
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
-2-Hexanone
-Dibromochloromethane+
-Ethyl Methacrylate+
-1,1,1,2-Tetrachloroethane+
-m,p-Xylenes
Chlorobenzene-d5+
-o-Xylene+
-Bromoform+
-Isopropylbenzene
-4-Bromofluorobenzene
-1,1,2,2-Tetrachloroethane+
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-tert-Butylbenzene+
-sec-Butylbenzene
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene+
-Naphthalene
-1,2,3-Trichlorobenzene
-2-Methylnaphthalene
-1-Methylnaphthalene
Min
\\NAHSTWS005\Target\chem\voa7,i\P240615,b\X061505,D
Data File: \\NAHSTWS005\Target\chem\voa7,i\P240615,b\X061505,D
Date : 15-JUN-2024 15:09
Client ID: VSTD005
Sample Info: VSTD005;VSTD00511;4
Purge Volume: 5.0
Column phase: DB624
Instrument: voa7,i
Operator: AP
Column diameter: 0.18
Page 1

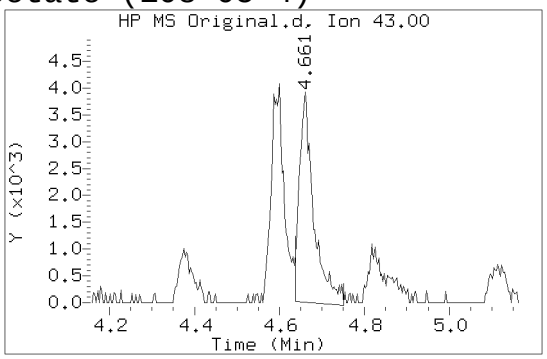
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061505.D
Inj Date : 15-JUN-2024 15:09
InstruID : voa7.i
LabSampID : VSTD005

Vinyl Acetate (108-05-4)

Reason Code:

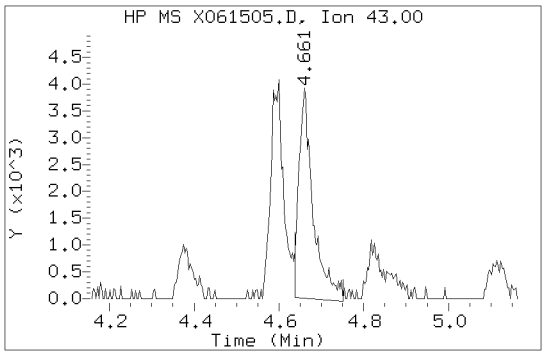
BEFORE

MASS
43
AREA
9154
HEIGHT
3923
12-Jul-2024
11:38
s
zaid



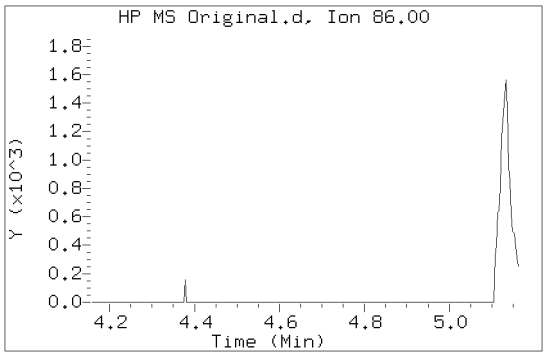
AFTER

MASS
43
AREA
9154
HEIGHT
3923
12-Jul-2024
11:38
s
zaid



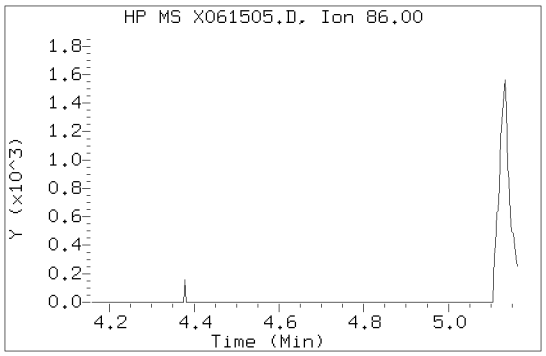
BEFORE

MASS
86
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
86
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

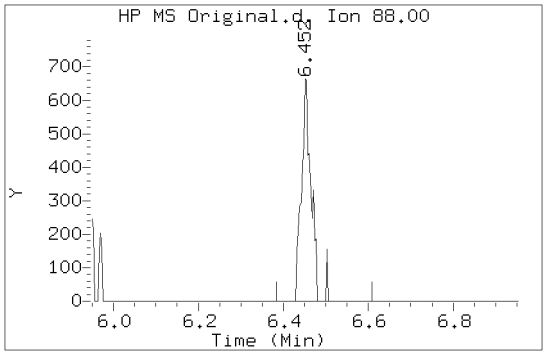


1,4-Dioxane ()

Reason Code:

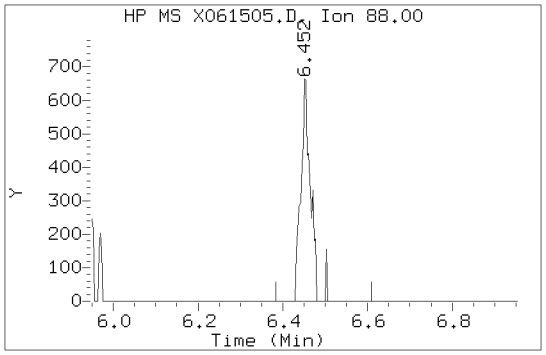
BEFORE

MASS
88
AREA
1050
HEIGHT
664
12-Jul-2024
11:38
s
zaid



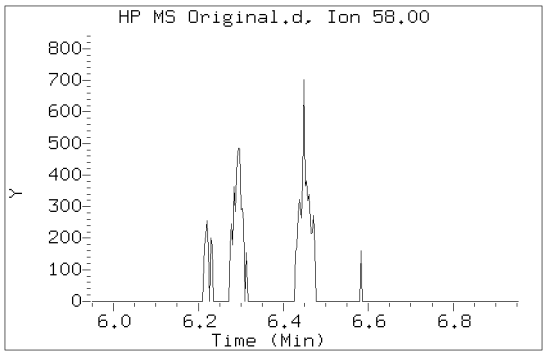
AFTER

MASS
88
AREA
1050
HEIGHT
664
12-Jul-2024
11:38
s
zaid



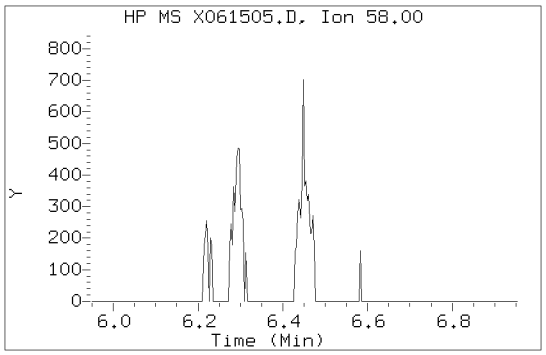
BEFORE

MASS
58
AREA
286
HEIGHT
387
12-Jul-2024
11:38
s
zaid



AFTER

MASS
58
AREA
286
HEIGHT
387
12-Jul-2024
11:38
s
zaid

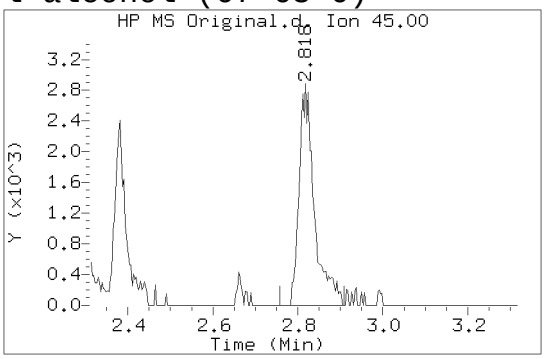


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061505.D
Inj Date : 15-JUN-2024 15:09
InstruID : voa7.i
LabSampID : VSTD005

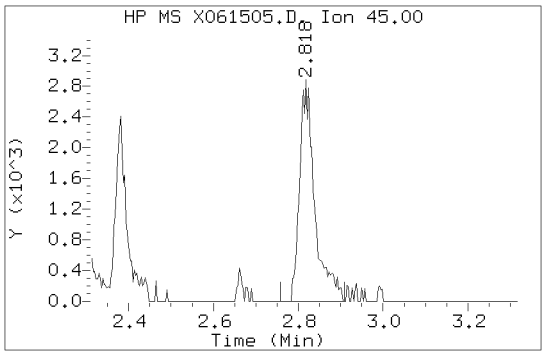
Isopropyl alcohol (67-63-0)

Reason Code:

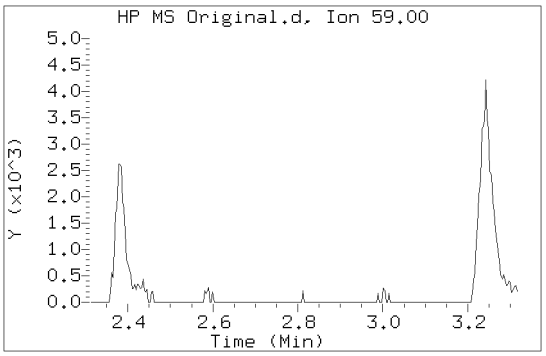
BEFORE
MASS
45
AREA
7128
HEIGHT
2886
12-Jul-2024
11:38
s
zaid



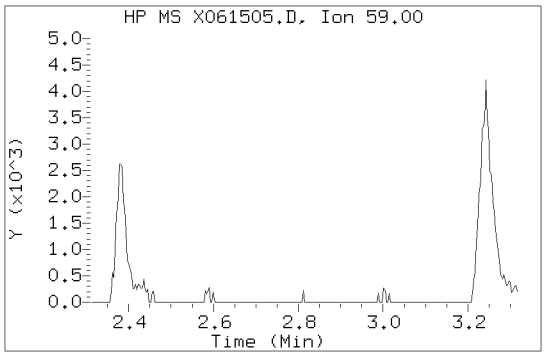
AFTER
MASS
45
AREA
7128
HEIGHT
2886
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
59
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



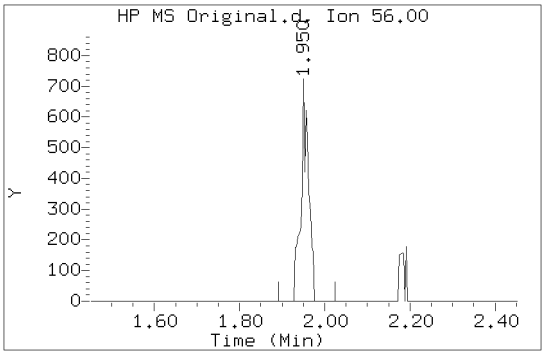
AFTER
MASS
59
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



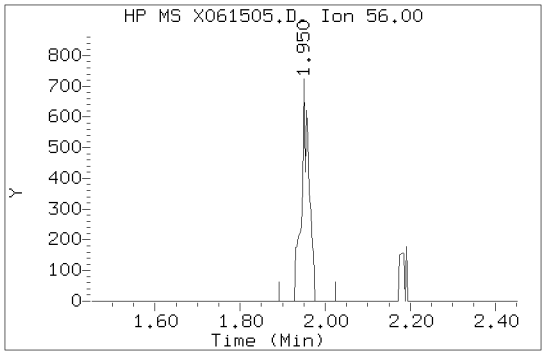
Isobutylene (115-11-7)

Reason Code:

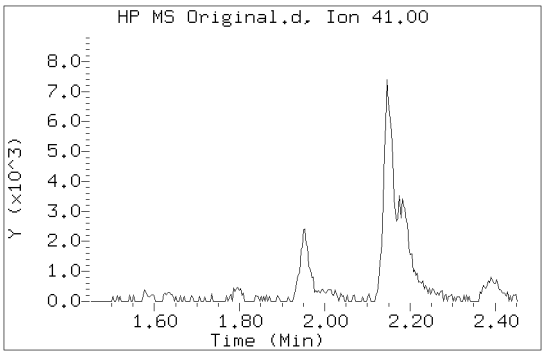
BEFORE
MASS
56
AREA
901
HEIGHT
724
12-Jul-2024
11:38
s
zaid



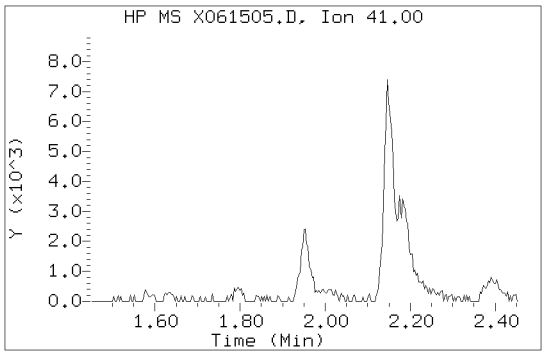
AFTER
MASS
56
AREA
901
HEIGHT
724
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER
MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



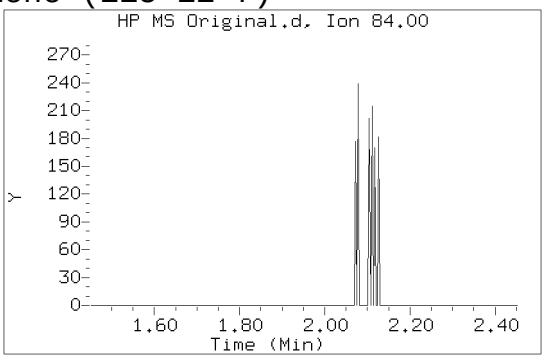
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061505.D
Inj Date : 15-JUN-2024 15:09
InstruID : voa7.i
LabSampID : VSTD005

Isobutylene (115-11-7)

Reason Code:

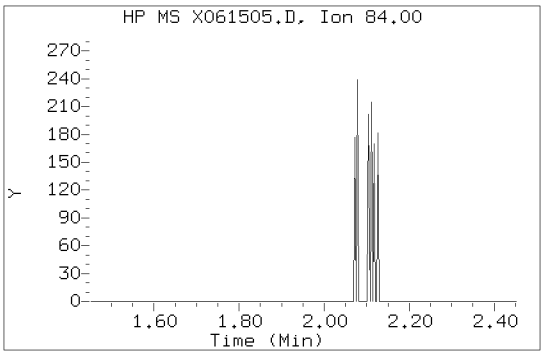
BEFORE

MASS
84
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
84
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

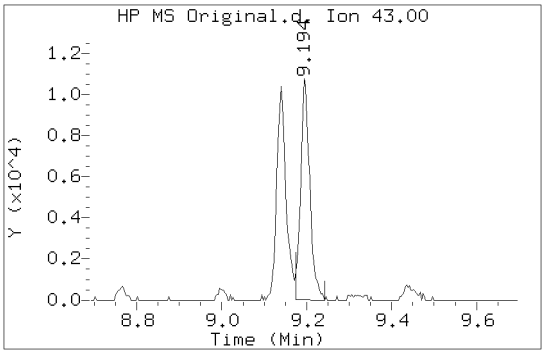


n-Amyl acetate (628-63-7)

Reason Code:

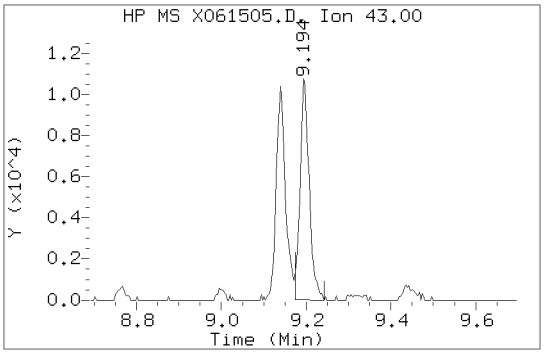
BEFORE

MASS
43
AREA
16091
HEIGHT
10789
12-Jul-2024
11:38
s
zaid



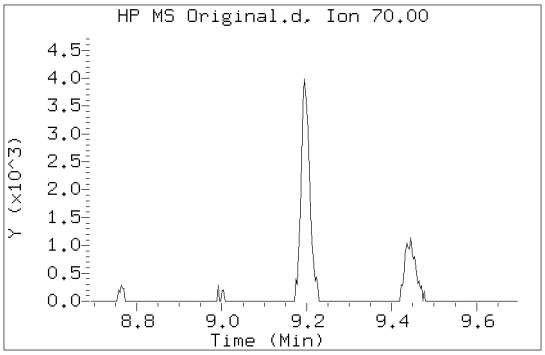
AFTER

MASS
43
AREA
16091
HEIGHT
10789
12-Jul-2024
11:38
s
zaid



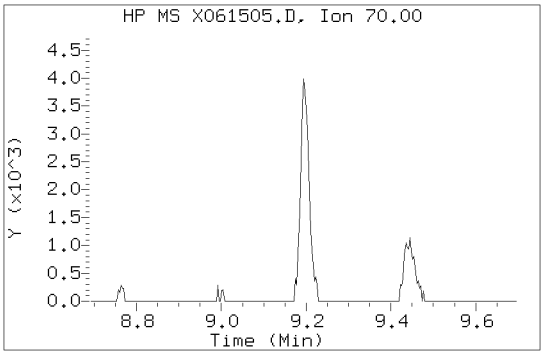
BEFORE

MASS
70
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



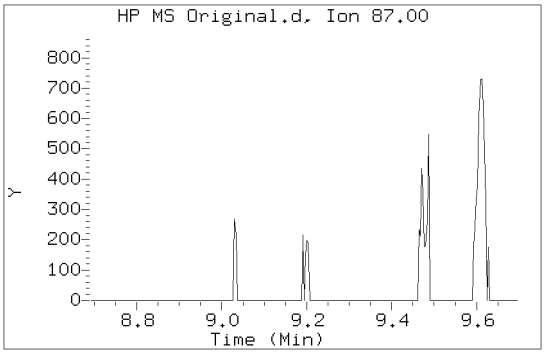
AFTER

MASS
70
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



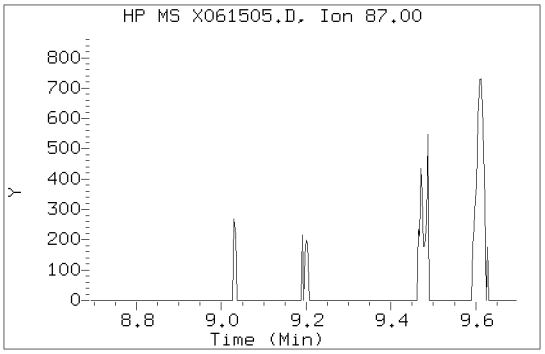
BEFORE

MASS
87
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
87
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



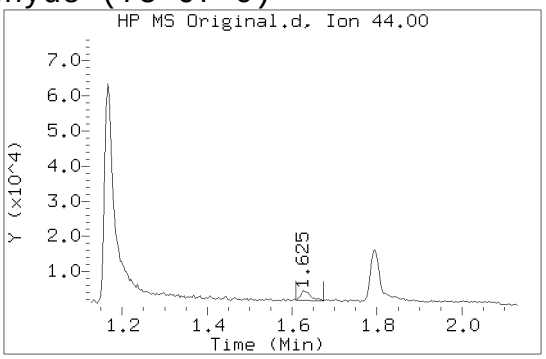
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061505.D
Inj Date : 15-JUN-2024 15:09
InstruID : voa7.i
LabSampID : VSTD005

Acetaldehyde (75-07-0)

Reason Code:

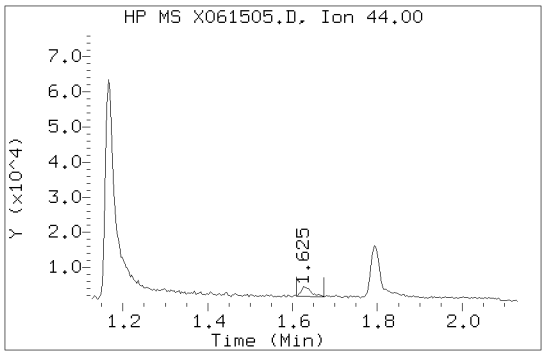
BEFORE

MASS
44
AREA
4414
HEIGHT
2737
12-Jul-2024
11:38
s
zaid



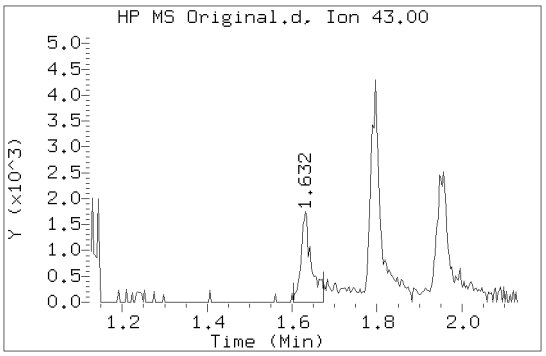
AFTER

MASS
44
AREA
4414
HEIGHT
2737
12-Jul-2024
11:38
s
zaid



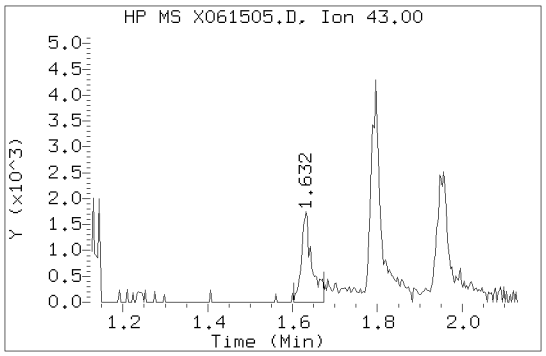
BEFORE

MASS
43
AREA
3011
HEIGHT
1750
12-Jul-2024
11:38
s
zaid



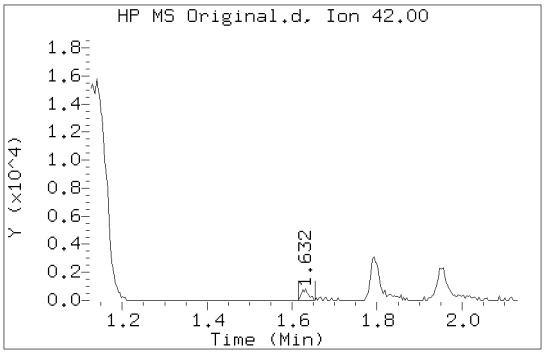
AFTER

MASS
43
AREA
3011
HEIGHT
1750
12-Jul-2024
11:38
s
zaid



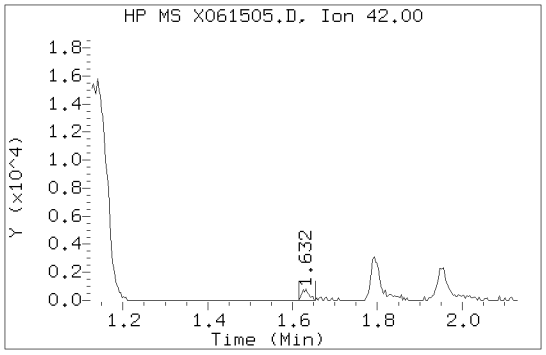
BEFORE

MASS
42
AREA
919
HEIGHT
809
12-Jul-2024
11:38
s
zaid



AFTER

MASS
42
AREA
919
HEIGHT
809
12-Jul-2024
11:38
s
zaid

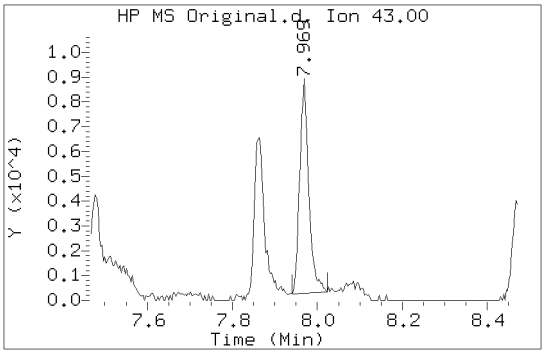


n-Butyl acetate (123-86-4)

Reason Code:

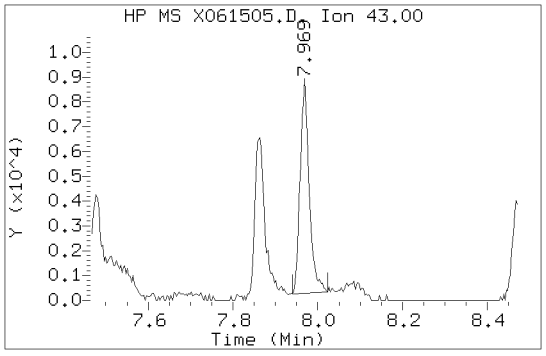
BEFORE

MASS
43
AREA
12732
HEIGHT
8653
12-Jul-2024
11:38
s
zaid



AFTER

MASS
43
AREA
12732
HEIGHT
8653
12-Jul-2024
11:38
s
zaid



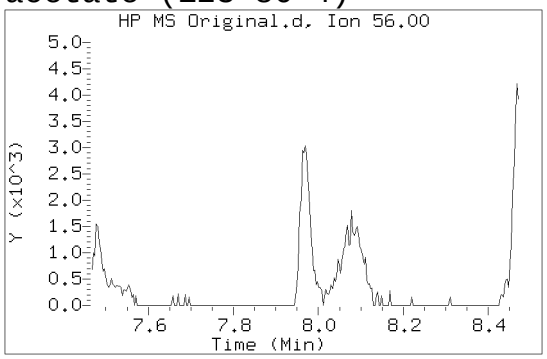
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061505.D
Inj Date : 15-JUN-2024 15:09
InstruID : voa7.i
LabSampID : VSTD005

n-Butyl acetate (123-86-4)

Reason Code:

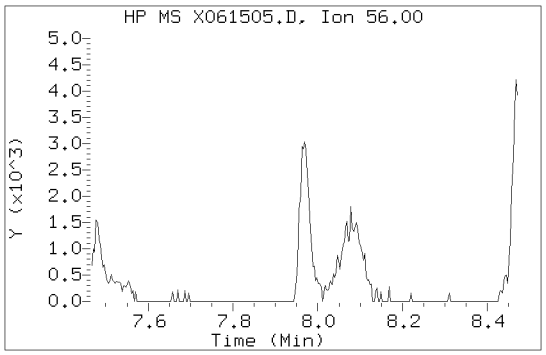
BEFORE

MASS
56
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



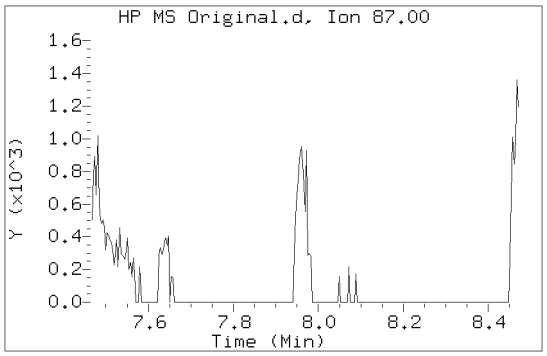
AFTER

MASS
56
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



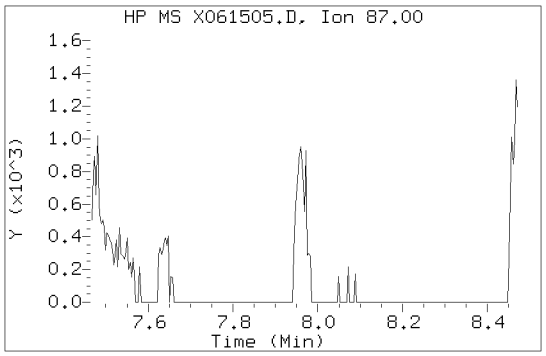
BEFORE

MASS
87
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
87
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

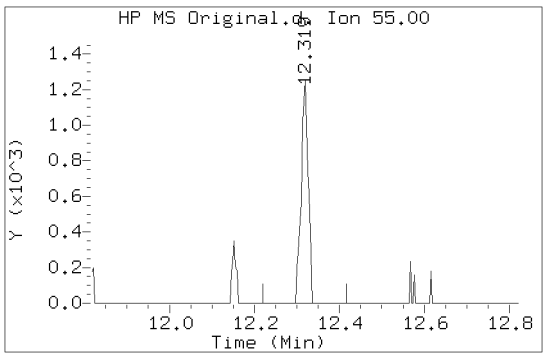


2-Etyhlhexyl Acrylate (103-11-7)

Reason Code:

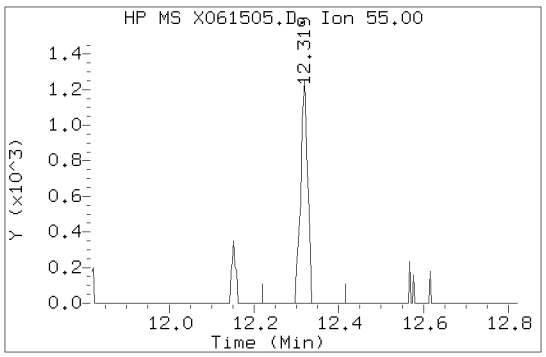
BEFORE

MASS
55
AREA
1446
HEIGHT
1249
12-Jul-2024
11:38
s
zaid



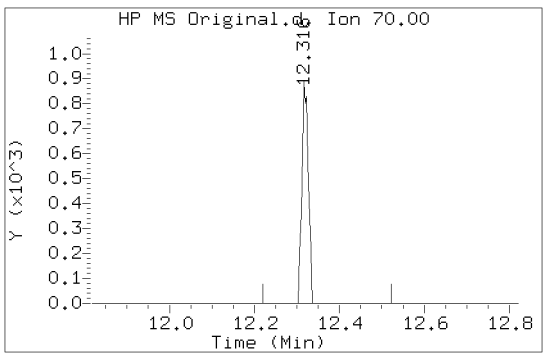
AFTER

MASS
55
AREA
1446
HEIGHT
1249
12-Jul-2024
11:38
s
zaid



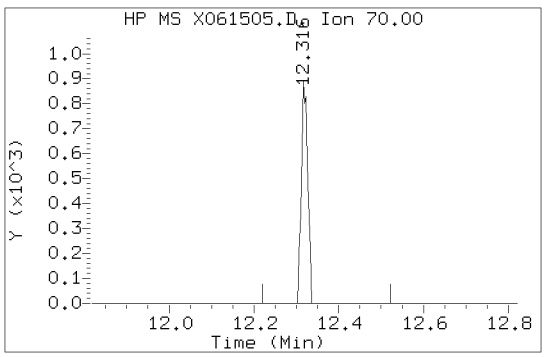
BEFORE

MASS
70
AREA
941
HEIGHT
888
12-Jul-2024
11:38
s
zaid



AFTER

MASS
70
AREA
941
HEIGHT
888
12-Jul-2024
11:38
s
zaid

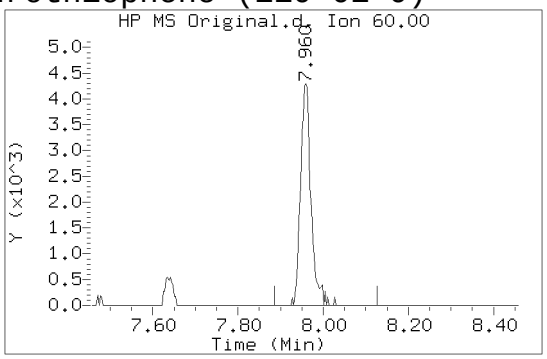


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061505.D
Inj Date : 15-JUN-2024 15:09
InstruID : voa7.i
LabSampID : VSTD005

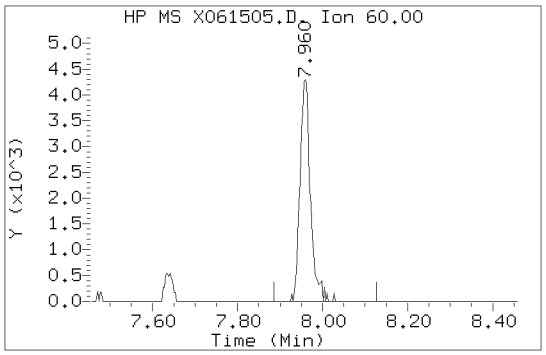
Tetrahydrothiophene (110-01-0)

Reason Code:

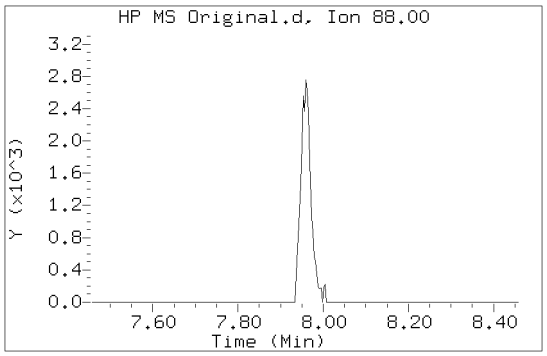
BEFORE
MASS
60
AREA
7400
HEIGHT
4296
12-Jul-2024
11:38
s
zaid



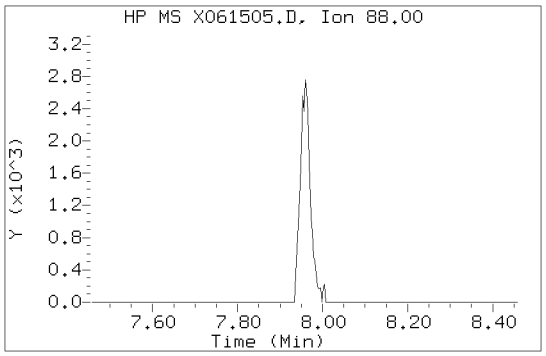
AFTER
MASS
60
AREA
7400
HEIGHT
4296
12-Jul-2024
11:38
s
zaid



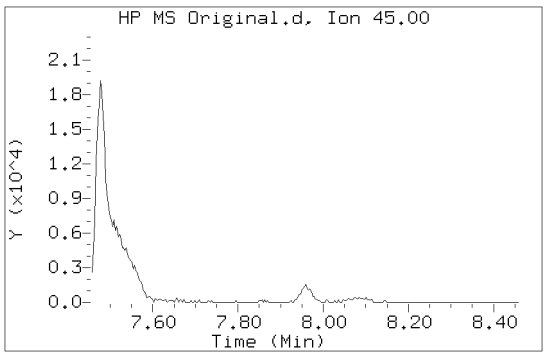
BEFORE
MASS
88
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



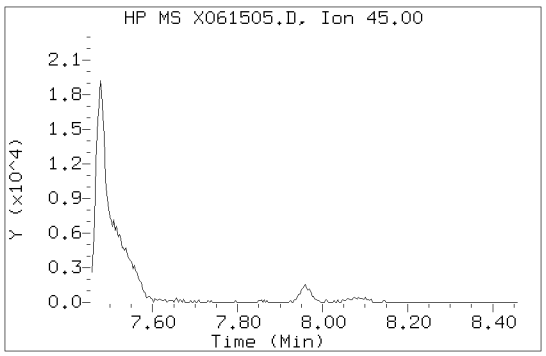
AFTER
MASS
88
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
45
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



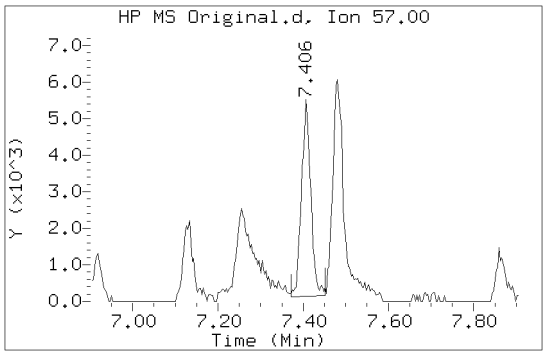
AFTER
MASS
45
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



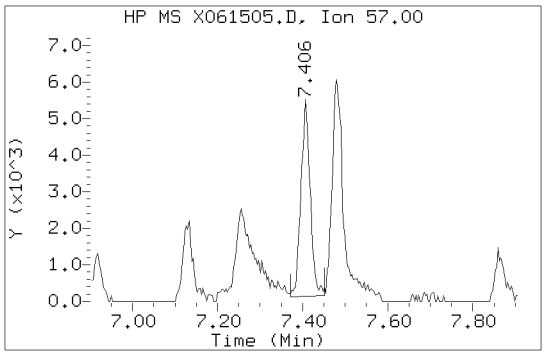
sec-Butyl Ether (6863-58-7)

Reason Code:

BEFORE
MASS
57
AREA
8224
HEIGHT
5382
12-Jul-2024
11:38
s
zaid



AFTER
MASS
57
AREA
8224
HEIGHT
5382
12-Jul-2024
11:38
s
zaid

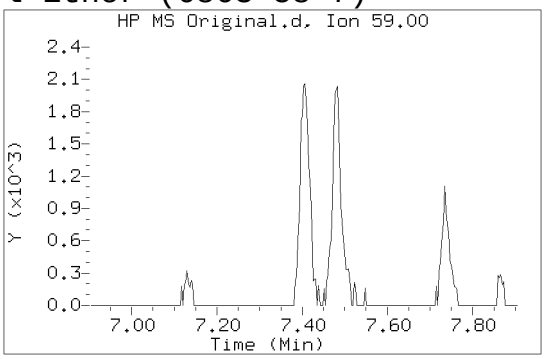


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061505.D
Inj Date : 15-JUN-2024 15:09
InstruID : voa7.i
LabSampID : VSTD005

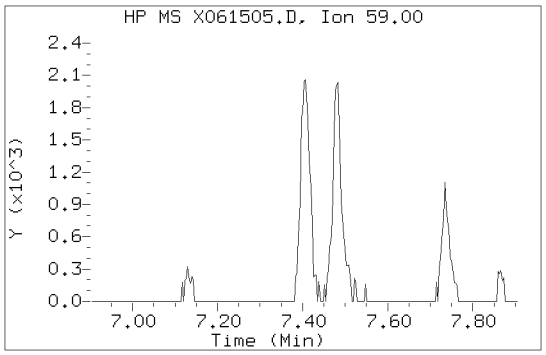
sec-Butyl Ether (6863-58-7)

Reason Code:

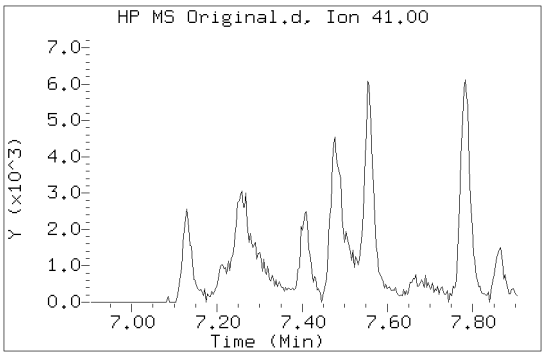
BEFORE
MASS
59
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



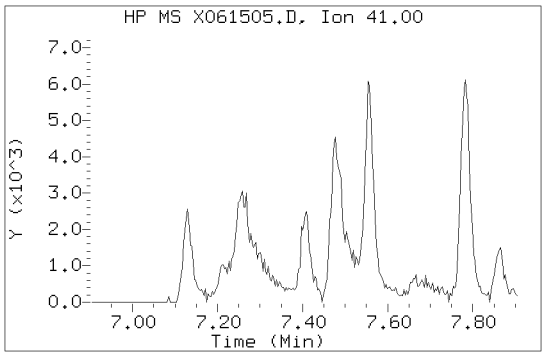
AFTER
MASS
59
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



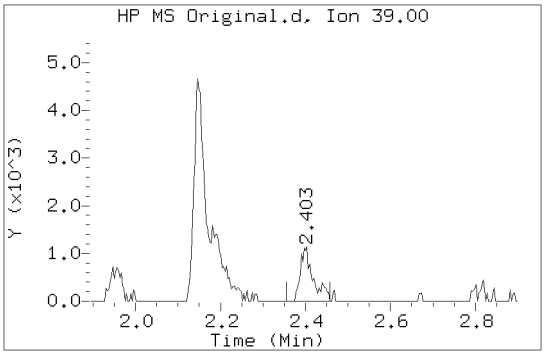
AFTER
MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



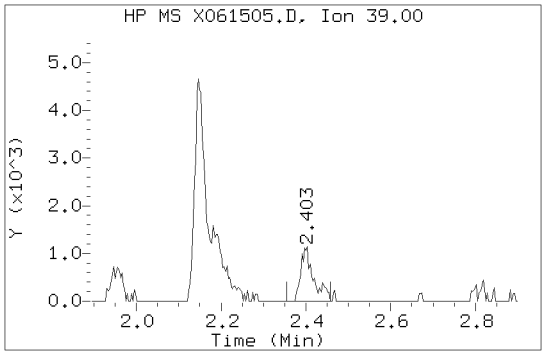
Isoprene (78-79-5)

Reason Code:

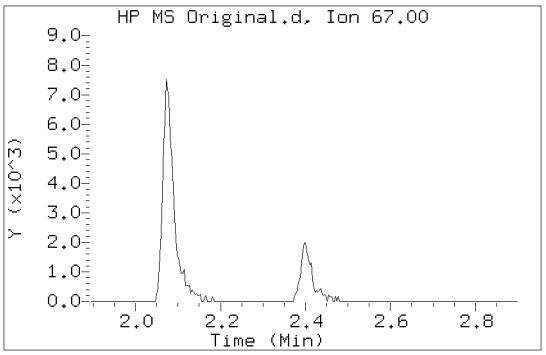
BEFORE
MASS
39
AREA
2371
HEIGHT
1140
12-Jul-2024
11:38
s
zaid



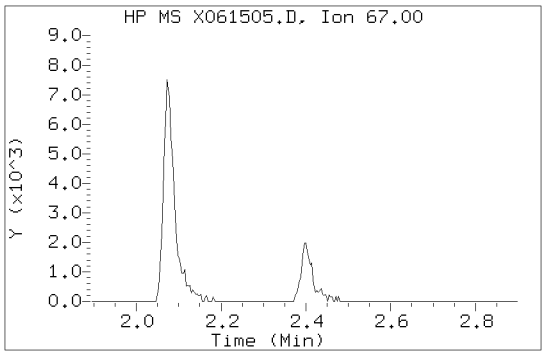
AFTER
MASS
39
AREA
2371
HEIGHT
1140
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
67
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER
MASS
67
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



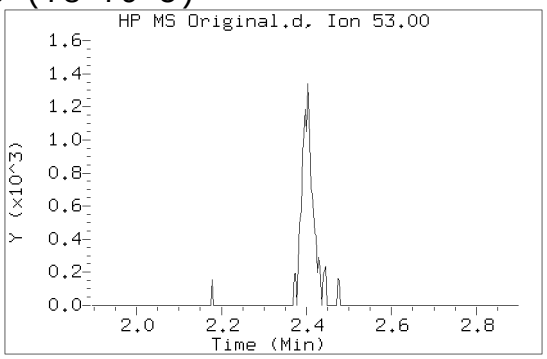
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061505.D
Inj Date : 15-JUN-2024 15:09
InstruID : voa7.i
LabSampID : VSTD005

Isoprene (78-79-5)

Reason Code:

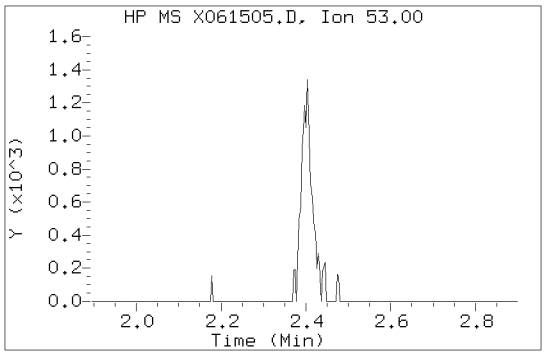
BEFORE

MASS
53
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
53
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061506.D Page 1
Report Date: 12-Jul-2024 11:38

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061506.D
Lab Smp Id: VSTD010 Client Smp ID: VSTD010
Inj Date : 15-JUN-2024 15:32
Operator : AP Inst ID: voa7.i
Smp Info : VSTD010;VSTD010;1;5
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240615.b\8260W.m
Meth Date : 12-Jul-2024 11:38 voa7.i Quant Type: ISTD
Cal Date : 15-JUN-2024 15:09 Cal File: X061505.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	5.133	5.133	(1.000)	128021	50.0000	
2	Dichlorodifluoromethane	85	1.297	1.297	(0.253)	14638	10.0000	10.50
159	Dichlorofluoromethane	67	2.075	2.075	(0.404)	26460	10.0000	9.92
3	Chloromethane	50	1.451	1.451	(0.283)	22083	10.0000	10.42
4	Propionitrile	54	4.673	4.673	(0.910)	18049	100.000	96.50
5	Vinyl Chloride	62	1.535	1.535	(0.299)	19207	10.0000	10.52
6	Bromomethane	94	1.811	1.811	(0.353)	10679	10.0000	9.87
7	Chloroethane	64	1.901	1.901	(0.370)	11324	10.0000	9.98
8	Trichlorofluoromethane	101	2.114	2.114	(0.412)	24641	10.0000	10.25
9	Acrolein	56	2.522	2.522	(0.491)	742	20.0000	20.57
10	Acetone	43	2.670	2.670	(0.520)	10572	20.0000	19.16
11	1,1-Dichloroethene	96	2.589	2.589	(0.505)	13278	10.0000	10.20
12	Isobutyl Alcohol	43	5.570	5.570	(1.085)	45161	200.000	197.51
13	Acetonitrile	39	2.962	2.962	(0.577)	20967	100.000	100.74
14	Allyl Chloride	41	2.959	2.959	(0.577)	42736	10.0000	9.62
15	Iodomethane	142	2.741	2.741	(0.534)	27400	20.0000	19.58
16	Acrylonitrile	53	3.384	3.384	(0.659)	8583	20.0000	18.32
17	Methylene Chloride	84	3.094	3.094	(0.603)	16881	10.0000	9.75
18	Methyl tert-butyl ether	73	3.384	3.384	(0.659)	35843	10.0000	10.08
19	Carbon Disulfide	76	2.795	2.795	(0.545)	83855	20.0000	20.28

20 trans-1,2-Dichloroethene	96	3.377	3.377 (0.658)	14138	10.0000	10.11
21 Vinyl Acetate	43	4.660	4.660 (0.908)	15481	20.0000	18.73

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061506.D Page 2
Report Date: 12-Jul-2024 11:38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
22	1,1-Dichloroethane	63	3.863	3.863	(0.753)	29729	10.0000	9.87
23	Chloroprene	53	3.962	3.962	(0.772)	24627	10.0000	10.27
24	2-Butanone	43	4.596	4.596	(0.895)	13788	20.0000	19.41
25	Methacrylonitrile	41	2.152	2.152	(0.419)	19994	10.0000	9.37
26	2,2-Dichloropropane	77	4.535	4.535	(0.883)	23539	10.0000	9.21
27	cis-1,2-Dichloroethene	96	4.541	4.541	(0.885)	15946	10.0000	10.01
28	Chloroform	83	4.908	4.908	(0.956)	28858	10.0000	9.95
29	Bromochloromethane	128	4.811	4.811	(0.937)	7632	10.0000	9.92
$ 30	Dibromofluoromethane	113	5.075	5.075	(0.989)	13555	10.0000	9.01
31	1,1,1-Trichloroethane	97	5.075	5.075	(0.989)	24009	10.0000	9.98
32	1,1-Dichloropropene	75	5.242	5.242	(0.896)	20893	10.0000	10.12
33	1,2-Dichloroethane	62	5.493	5.493	(0.938)	23794	10.0000	9.99
34	Carbon Tetrachloride	117	5.232	5.232	(0.894)	19473	10.0000	9.99
$ 35	1,2-Dichloroethane-d4	65	5.419	5.419	(1.056)	18078	10.0000	9.15
* 36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	212384	50.0000	
37	Benzene	78	5.457	5.457	(0.932)	60291	10.0000	10.26
38	Trichloroethene	130	6.084	6.084	(1.040)	14480	10.0000	9.78
39	Bromodichloromethane	83	6.573	6.573	(1.123)	21673	10.0000	9.16
40	Methyl Methacrylate	41	6.432	6.432	(1.253)	15048	10.0000	9.60
41	2-Chloroethylvinyl ether	63	6.853	6.853	(1.171)	11392	20.0000	19.19
42	1,2-Dichloropropane	63	6.310	6.310	(1.078)	17398	10.0000	10.34
43	2-Nitropropane	43	6.795	6.795	(1.324)	4212	10.0000	9.45
44	Dibromomethane	93	6.422	6.422	(1.097)	9510	10.0000	10.18
45	4-Methyl-2-Pentanone	43	7.126	7.126	(0.842)	32018	20.0000	19.71
46	cis-1,3-Dichloropropene	75	6.975	6.975	(1.192)	22745	10.0000	10.11
* 47	Chlorobenzene-d5	117	8.467	8.467	(1.000)	202110	50.0000	
$ 48	Toluene-d8	98	7.203	7.203	(0.851)	50267	10.0000	9.17
49	Ethyl Methacrylate	69	8.078	8.078	(1.380)	17396	10.0000	9.64(M)
50	Toluene	91	7.264	7.264	(0.858)	62276	10.0000	9.94
51	trans-1,3-Dichloropropene	75	6.975	6.975	(1.192)	22745	10.0000	10.11
52	2-Hexanone	43	7.863	7.863	(0.929)	21713	20.0000	18.87
53	1,1,2-Trichloroethane	83	7.637	7.637	(0.902)	11359	10.0000	9.44
54	1,3-Dichloropropane	76	7.782	7.782	(0.919)	25023	10.0000	9.77
55	Dibromochloromethane	129	7.975	7.975	(0.942)	15089	10.0000	9.11
56	Tetrachloroethene	164	7.740	7.740	(0.914)	11042	10.0000	9.57
57	1,2-Dibromoethane	107	8.078	8.078	(0.954)	12804	10.0000	10.03
58	1-Chlorohexane	55	8.467	8.467	(1.447)	17306	10.0000	10.00
59	Chlorobenzene	112	8.493	8.493	(1.003)	39917	10.0000	9.68
60	1,1,1,2-Tetrachloroethane	131	8.563	8.563	(1.011)	13676	10.0000	10.12
61	Ethylbenzene	106	8.583	8.583	(1.014)	20636	10.0000	9.79
62	m,p-Xylenes	106	8.686	8.686	(1.026)	52278	20.0000	19.81
63	o-Xylene	106	9.023	9.023	(1.066)	24914	10.0000	9.61
64	Styrene	104	9.039	9.039	(1.068)	44716	10.0000	9.87
66	Bromoform	173	9.207	9.207	(1.087)	9670	10.0000	9.26
67	Isopropylbenzene	105	9.338	9.338	(1.103)	63249	10.0000	9.73
68	1,1,2,2-Tetrachloroethane	83	9.612	9.612	(0.919)	18424	10.0000	10.13
$ 69	4-Bromofluorobenzene	95	9.473	9.473	(1.119)	20656	10.0000	8.99
* 70	1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	102647	50.0000	
71	1,2,3-Trichloropropane	75	9.650	9.650	(0.923)	20796	10.0000	10.20
72	trans-1,4-Dichloro-2-butene	53	9.660	9.660	(1.141)	4519	10.0000	10.39
73	n-Propylbenzene	91	9.689	9.689	(0.927)	76526	10.0000	10.00
74	Bromobenzene	156	9.605	9.605	(0.919)	17462	10.0000	10.31

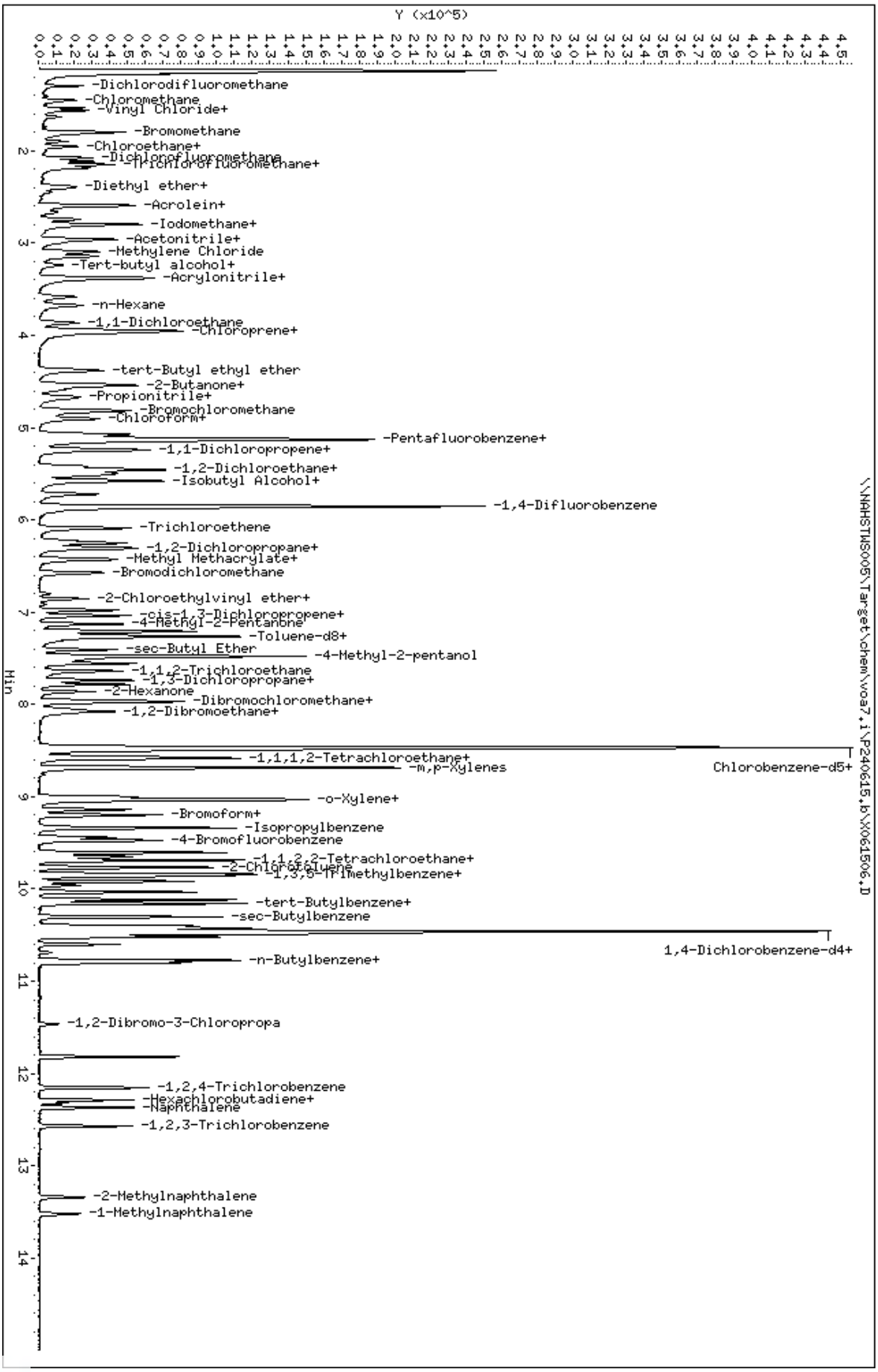
75	1,3,5-Trimethylbenzene	105	9.840	9.840 (0.941)	55087	10.0000	10.16
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	48163	10.0000	9.98

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061506.D Page 3
Report Date: 12-Jul-2024 11:38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
77	4-Chlorotoluene	91	9.859	9.859	(0.943)	56243	10.0000	10.00
78	tert-Butylbenzene	119	10.113	10.113	(0.967)	44107	10.0000	9.57
79	1,2,4-Trimethylbenzene	105	10.158	10.158	(0.971)	54690	10.0000	9.93
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	61000	10.0000	9.90
82	p-Isopropyltoluene	119	10.428	10.428	(0.997)	55271	10.0000	9.94
83	1,3-Dichlorobenzene	146	10.403	10.403	(0.995)	30823	10.0000	9.93
84	1,4-Dichlorobenzene	146	10.480	10.480	(1.002)	31726	10.0000	9.78
87	n-Butylbenzene	91	10.772	10.772	(1.030)	50748	10.0000	9.59
88	1,2-Dichlorobenzene	146	10.798	10.798	(1.033)	29096	10.0000	9.70
89	1,2-Dibromo-3-Chloropropane	75	11.460	11.460	(1.096)	2718	10.0000	8.96
90	1,2,4-Trichlorobenzene	180	12.155	12.155	(1.162)	16917	10.0000	9.36
91	Hexachlorobutadiene	225	12.287	12.287	(1.175)	8542	10.0000	9.76
92	Naphthalene	128	12.370	12.370	(1.183)	37035	10.0000	8.41
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	13510	10.0000	8.42
135	1,4-Dioxane	88	6.454	6.454	(1.257)	2043	200.000	185.47(AM)
146	Methyl acetate	43	2.998	2.998	(0.584)	12109	10.0000	11.00
138	Freon TF	101	2.593	2.593	(0.505)	12911	10.0000	10.13
139	Diethyl ether	59	2.384	2.384	(0.464)	7676	10.0000	8.22
140	1,3-Butadiene	54	1.564	1.564	(0.305)	7850	10.0000	10.07
141	Cyclohexane	56	5.113	5.113	(0.996)	23825	10.0000	9.95
147	Methylcyclohexane	83	6.248	6.248	(1.068)	18627	10.0000	10.47
132	n-Butanol	56	6.248	6.248	(1.217)	8125	200.000	199.31(T)
131	Methyl Acrylate	55	4.689	4.689	(0.914)	15184	10.0000	9.80
133	Ethyl Acrylate	55	6.226	6.226	(1.213)	35312	10.0000	9.80(M)
136	n-Hexane	57	3.676	3.676	(0.716)	14466	10.0000	9.44
142	Tetrahydrofuran	42	4.863	4.863	(0.947)	4755	20.0000	21.07
148	Tert-butyl alcohol	59	3.239	3.239	(0.631)	17506	200.000	185.29
149	Isopropyl alcohol	45	2.814	2.814	(0.548)	12916	200.000	175.28
151	4-Methyl-2-pentanol	45	7.477	7.477	(0.883)	105868	200.000	194.68
166	1,2,3-Trimethylbenzene	105	10.518	10.518	(1.006)	48601	10.0000	9.19
167	Ethanol	45	2.306	2.306	(0.449)	2526	200.000	207.73
172	tert-Butyl formate	59	3.239	3.239	(0.631)	17506	20.0000	20.16
173	3,3-Dimethyl-1-butanol	57	8.078	8.078	(0.954)	25111	200.000	199.08(M)
174	tert-Amyl methyl ether	73	5.576	5.576	(1.086)	39115	10.0000	9.86
175	tert-Butyl ethyl ether	59	4.384	4.384	(0.854)	40425	10.0000	9.26
157	2-Methylnaphthalene	142	13.341	13.341	(1.276)	12659	10.0000	7.89
156	Diisopropyl ether	45	3.949	3.949	(0.769)	46789	10.0000	9.20(T)
171	1-Methylnaphthalene	142	13.521	13.521	(1.293)	11383	10.0000	8.03
130	Ethyl Acetate	43	3.949	3.949	(0.769)	85403	10.0000	9.69(T)
176	tert-Amyl alcohol	59	5.512	5.512	(1.074)	15952	200.000	191.19(A)
160	Epichlorohydrin	57	6.911	6.911	(1.181)	3458	40.0000	38.62
161	Butyl acrylate	55	8.998	8.998	(1.063)	32123	10.0000	9.56
182	Isobutylene	56	1.953	1.953	(0.381)	1722	10.0000	9.06(AM)
183	Isopropyl Acetate	43	5.570	5.570	(0.952)	45161	10.0000	10.11(A)
184	n-Amyl acetate	43	9.194	9.194	(1.086)	30467	10.0000	9.63(A)
185	Acetaldehyde	44	1.631	1.631	(0.318)	10172	40.0000	46.03(AM)
186	n-Butyl acetate	43	7.969	7.969	(0.941)	24410	10.0000	9.49(AM)
187	2-Etyhlhexyl Acrylate	55	12.319	12.319	(1.178)	4941	10.0000	7.19(AM)
188	Tetrahydrothiophene	60	7.959	7.959	(0.940)	15450	10.0000	9.54(AM)
189	sec-Butyl Ether	57	7.406	7.406	(0.875)	15913	10.0000	9.91(AM)
190	Isoprene	39	2.403	2.403	(0.468)	4929	10.0000	12.80(AM)
191	2-Chloropropene	41	2.152	2.152	(0.419)	19994	10.0000	9.07(A)

QC Flag Legend

T - Target compound detected outside RT window.
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061506.D
Date : 15-JUN-2024 15:32
Client ID: VSTD010
Sample Info: VSTD010;VSTD010;1;5
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7.i
Operator: AP
Column diameter: 0.18

Page 1

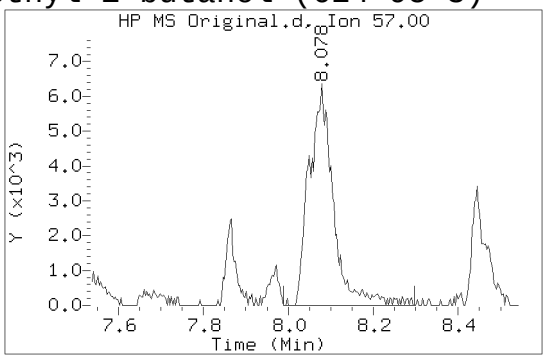
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061506.D
Inj Date : 15-JUN-2024 15:32
InstruID : voa7.i
LabSampID : VSTD010

3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

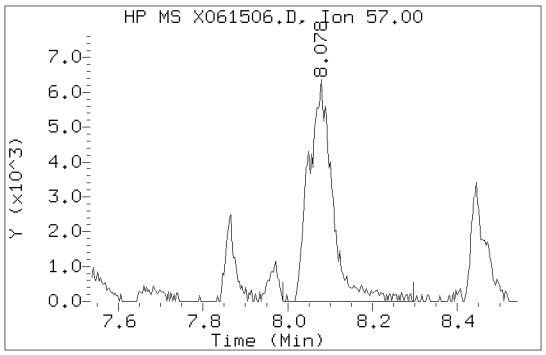
BEFORE

MASS
57
AREA
25111
HEIGHT
6361
12-Jul-2024
11:38
s
zaid



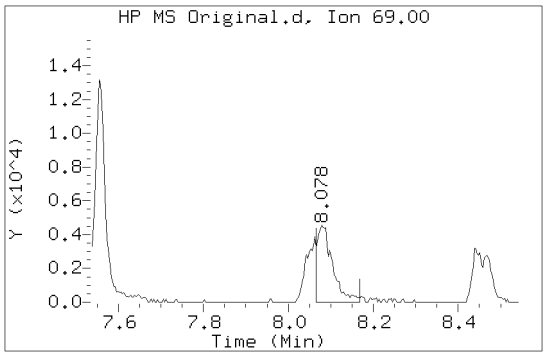
AFTER

MASS
57
AREA
25111
HEIGHT
6361
12-Jul-2024
11:38
s
zaid



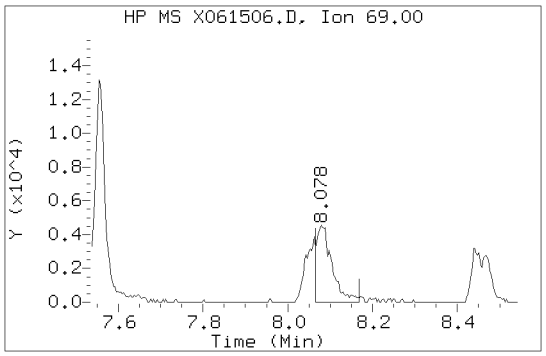
BEFORE

MASS
69
AREA
11615
HEIGHT
4585
12-Jul-2024
11:38
s
zaid



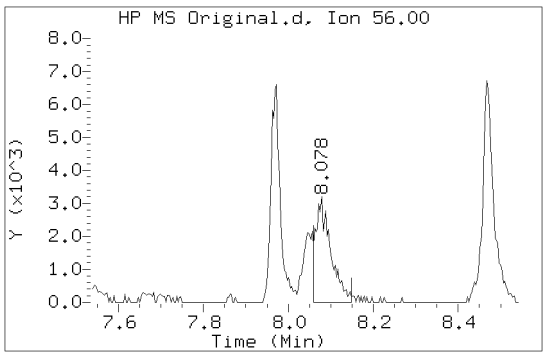
AFTER

MASS
69
AREA
11615
HEIGHT
4585
12-Jul-2024
11:38
s
zaid



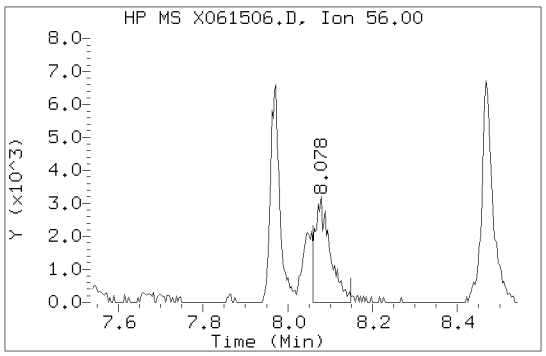
BEFORE

MASS
56
AREA
7889
HEIGHT
3203
12-Jul-2024
11:38
s
zaid



AFTER

MASS
56
AREA
7889
HEIGHT
3203
12-Jul-2024
11:38
s
zaid

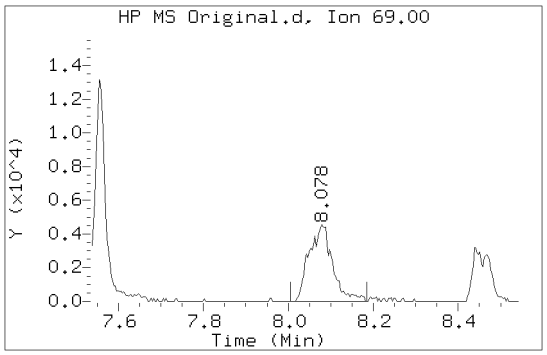


Ethyl Methacrylate (97-63-2)

Reason Code:

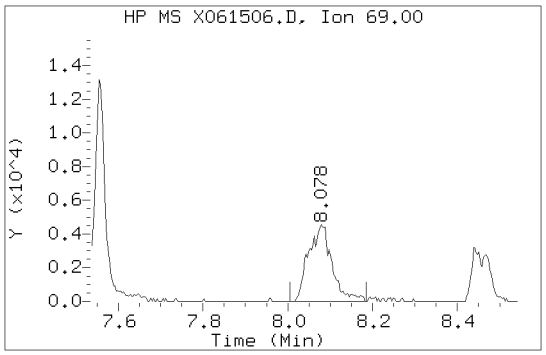
BEFORE

MASS
69
AREA
17396
HEIGHT
4585
12-Jul-2024
11:38
s
zaid



AFTER

MASS
69
AREA
17396
HEIGHT
4585
12-Jul-2024
11:38
s
zaid



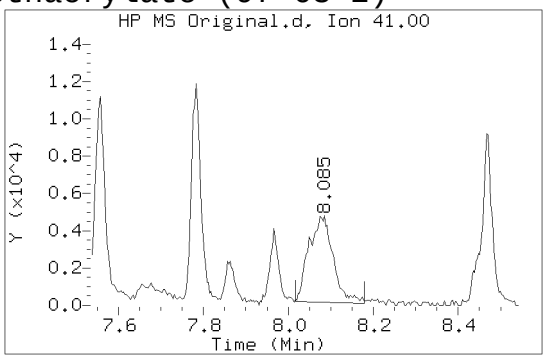
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061506.D
Inj Date : 15-JUN-2024 15:32
InstruID : voa7.i
LabSampID : VSTD010

Ethyl Methacrylate (97-63-2)

Reason Code:

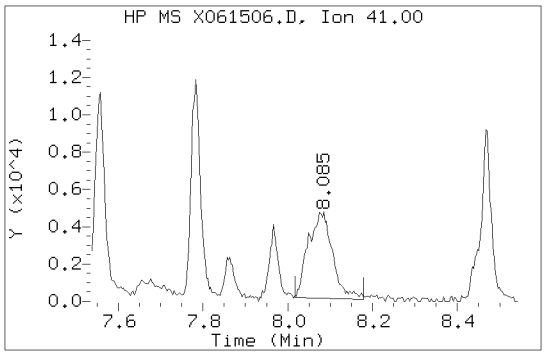
BEFORE

MASS
41
AREA
18322
HEIGHT
4656
12-Jul-2024
11:38
s
zaid



AFTER

MASS
41
AREA
18322
HEIGHT
4656
12-Jul-2024
11:38
s
zaid

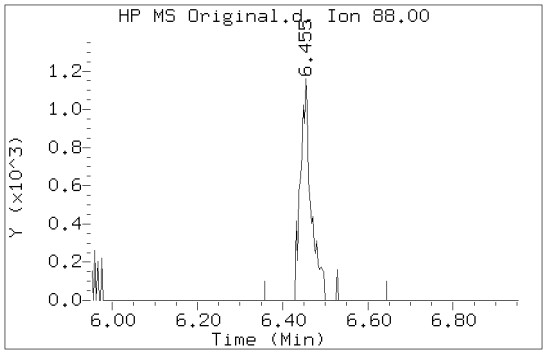


1,4-Dioxane ()

Reason Code:

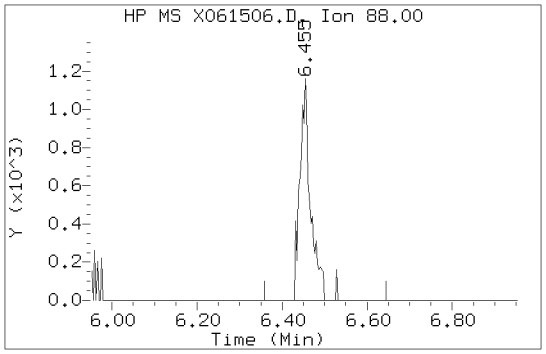
BEFORE

MASS
88
AREA
2043
HEIGHT
1161
12-Jul-2024
11:38
s
zaid



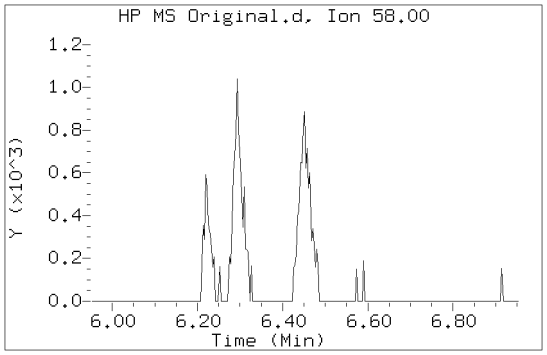
AFTER

MASS
88
AREA
2043
HEIGHT
1161
12-Jul-2024
11:38
s
zaid



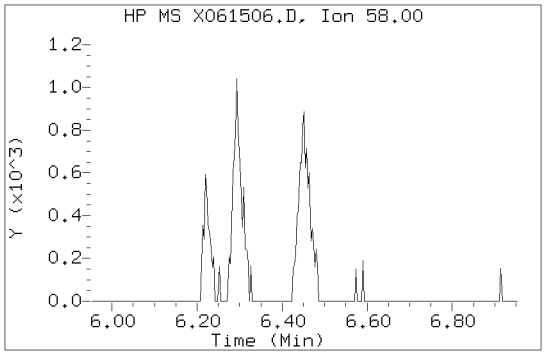
BEFORE

MASS
58
AREA
526
HEIGHT
391
12-Jul-2024
11:38
s
zaid



AFTER

MASS
58
AREA
526
HEIGHT
391
12-Jul-2024
11:38
s
zaid

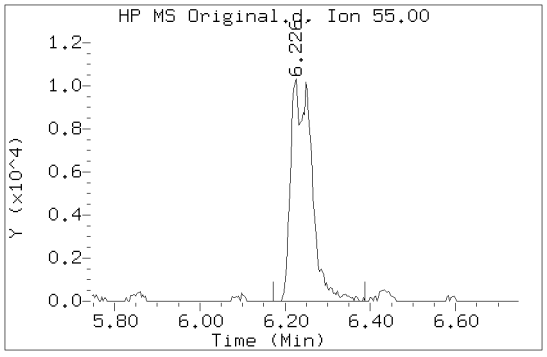


Ethyl Acrylate (140-88-5)

Reason Code:

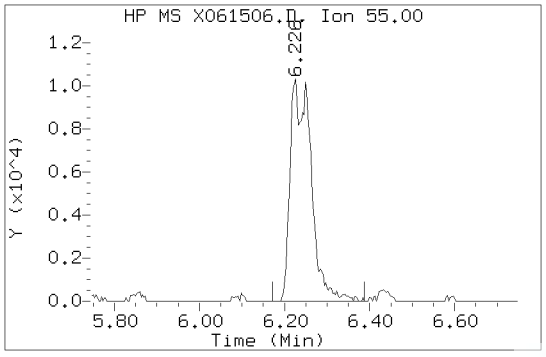
BEFORE

MASS
55
AREA
35312
HEIGHT
10322
12-Jul-2024
11:38
s
zaid



AFTER

MASS
55
AREA
35312
HEIGHT
10322
12-Jul-2024
11:38
s
zaid



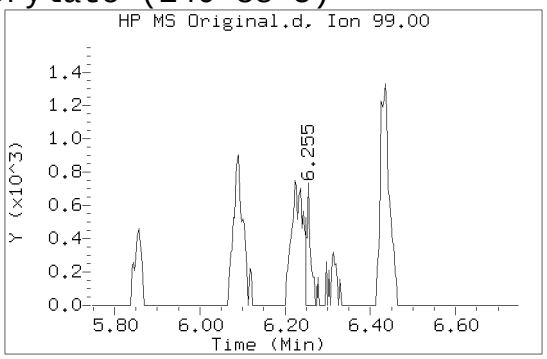
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061506.D
Inj Date : 15-JUN-2024 15:32
InstruID : voa7.i
LabSampID : VSTD010

Ethyl Acrylate (140-88-5)

Reason Code:

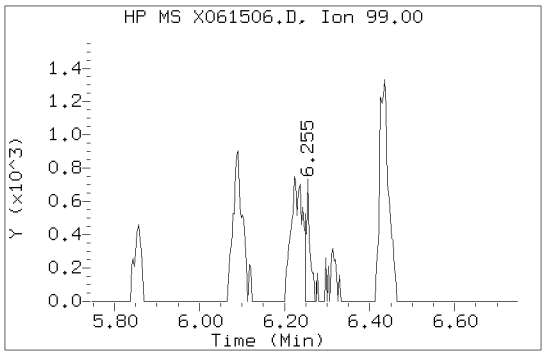
BEFORE

MASS
99
AREA
476
HEIGHT
735
12-Jul-2024
11:38
s
zaid



AFTER

MASS
99
AREA
476
HEIGHT
735
12-Jul-2024
11:38
s
zaid

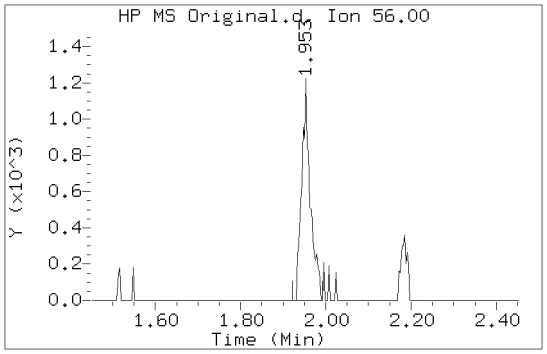


Isobutylene (115-11-7)

Reason Code:

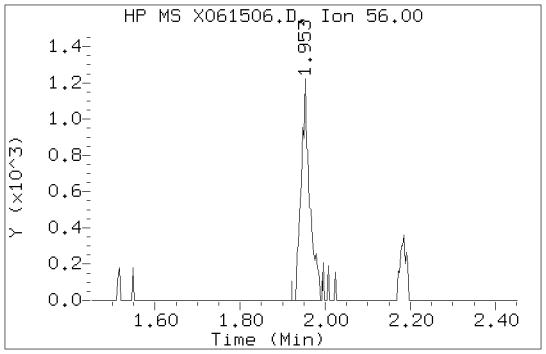
BEFORE

MASS
56
AREA
1722
HEIGHT
1223
12-Jul-2024
11:38
s
zaid



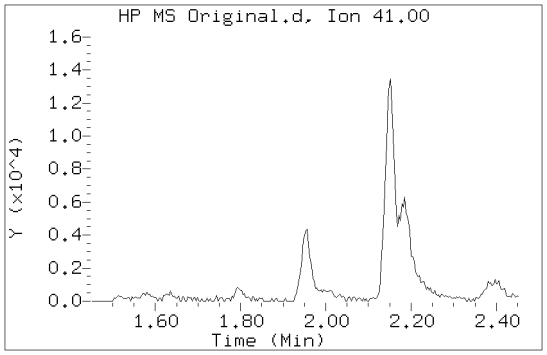
AFTER

MASS
56
AREA
1722
HEIGHT
1223
12-Jul-2024
11:38
s
zaid



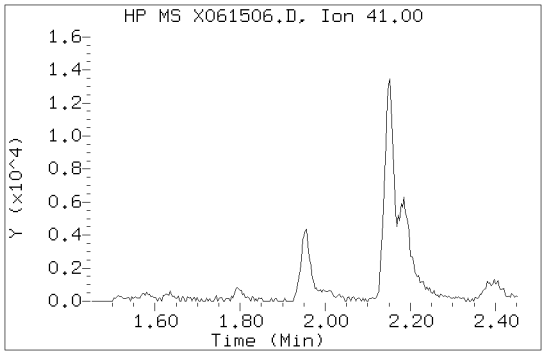
BEFORE

MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



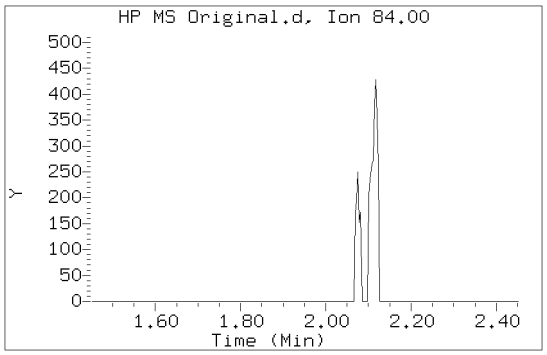
AFTER

MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



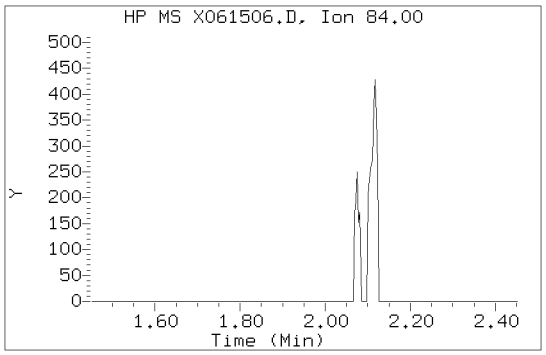
BEFORE

MASS
84
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
84
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

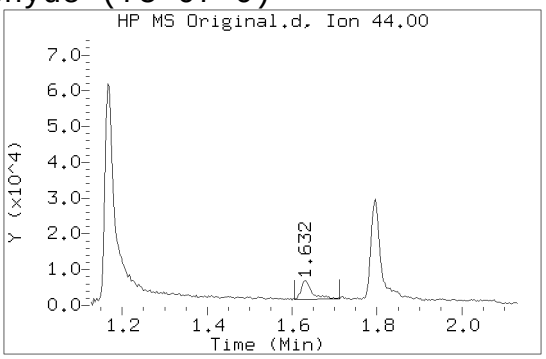


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061506.D
Inj Date : 15-JUN-2024 15:32
InstruID : voa7.i
LabSampID : VSTD010

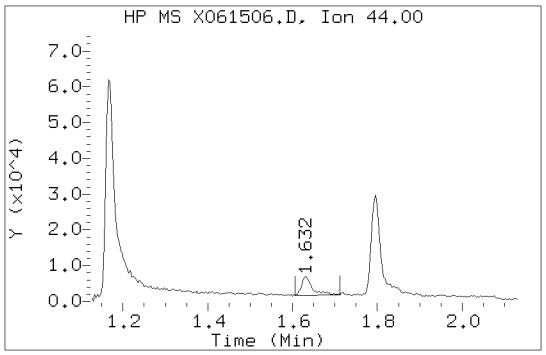
Acetaldehyde (75-07-0)

Reason Code:

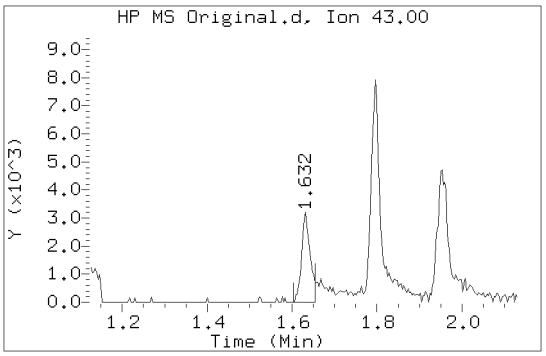
BEFORE
MASS
44
AREA
10172
HEIGHT
5424
12-Jul-2024
11:38
s
zaid



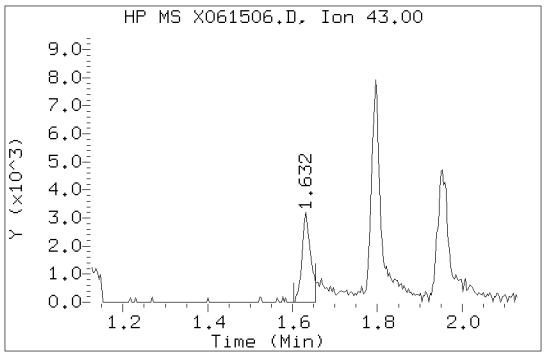
AFTER
MASS
44
AREA
10172
HEIGHT
5424
12-Jul-2024
11:38
s
zaid



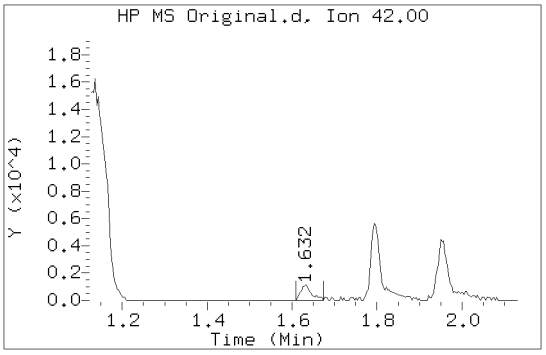
BEFORE
MASS
43
AREA
4514
HEIGHT
3197
12-Jul-2024
11:38
s
zaid



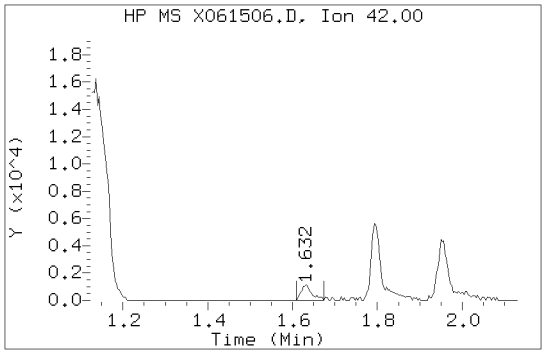
AFTER
MASS
43
AREA
4514
HEIGHT
3197
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
42
AREA
1958
HEIGHT
1117
12-Jul-2024
11:38
s
zaid



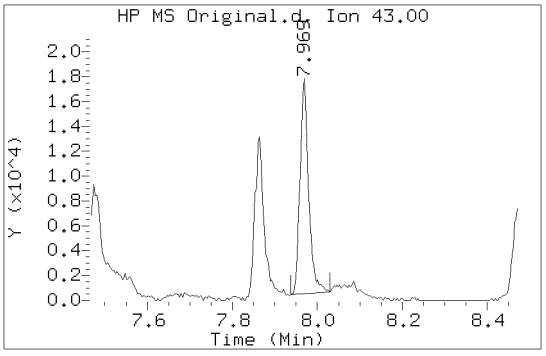
AFTER
MASS
42
AREA
1958
HEIGHT
1117
12-Jul-2024
11:38
s
zaid



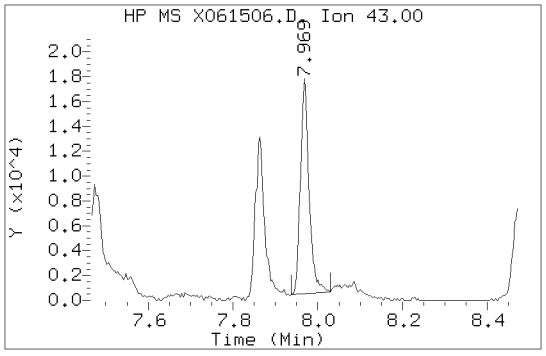
n-Butyl acetate (123-86-4)

Reason Code:

BEFORE
MASS
43
AREA
24410
HEIGHT
17311
12-Jul-2024
11:38
s
zaid



AFTER
MASS
43
AREA
24410
HEIGHT
17311
12-Jul-2024
11:38
s
zaid



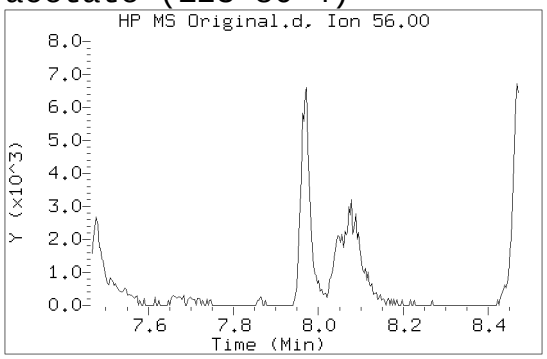
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061506.D
Inj Date : 15-JUN-2024 15:32
InstruID : voa7.i
LabSampID : VSTD010

n-Butyl acetate (123-86-4)

Reason Code:

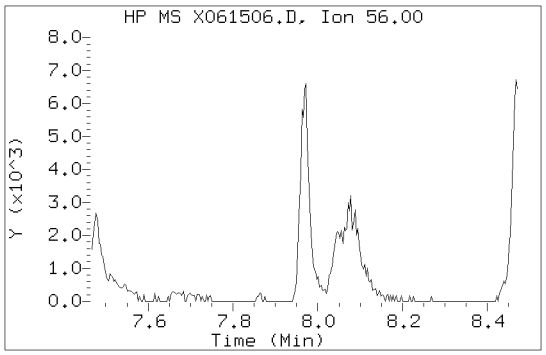
BEFORE

MASS
56
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



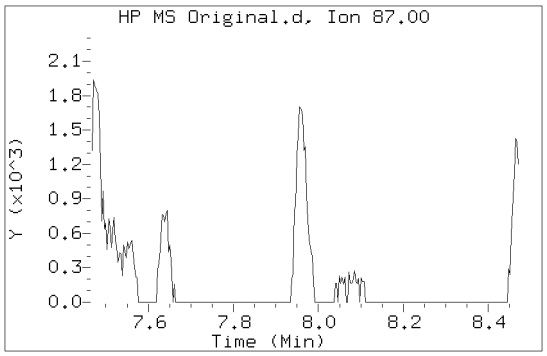
AFTER

MASS
56
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



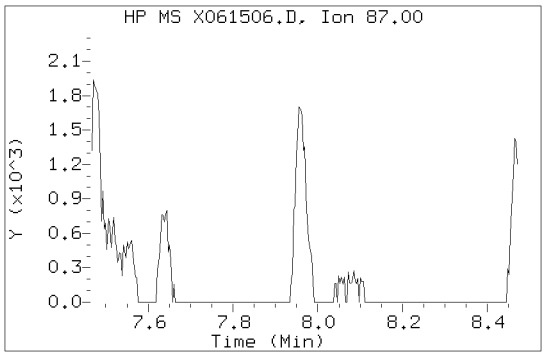
BEFORE

MASS
87
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
87
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

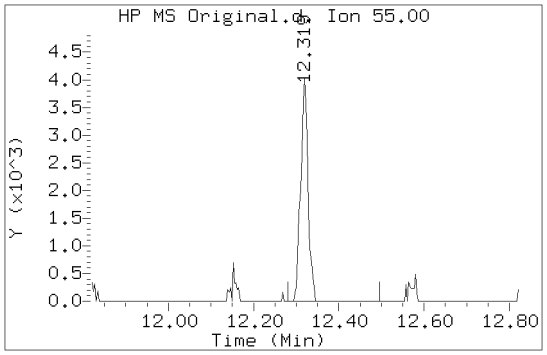


2-Etyhlhexyl Acrylate (103-11-7)

Reason Code:

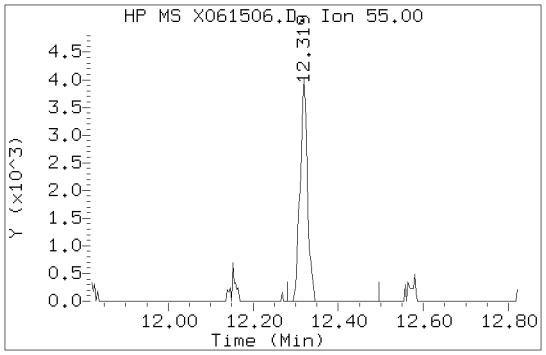
BEFORE

MASS
55
AREA
4941
HEIGHT
4016
12-Jul-2024
11:38
s
zaid



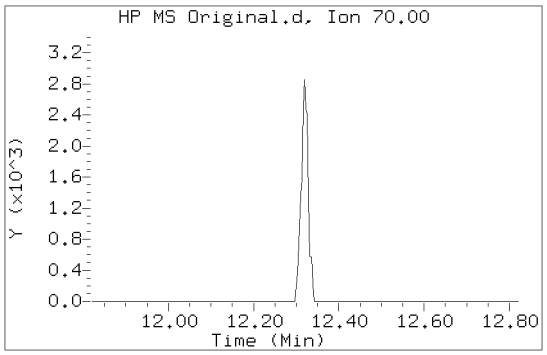
AFTER

MASS
55
AREA
4941
HEIGHT
4016
12-Jul-2024
11:38
s
zaid



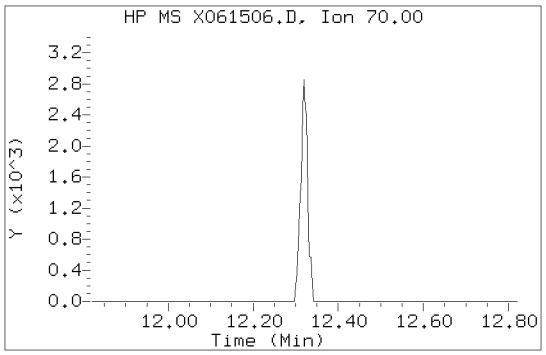
BEFORE

MASS
70
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
70
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

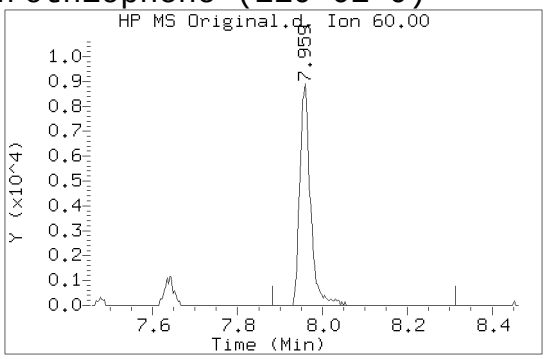


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061506.D
Inj Date : 15-JUN-2024 15:32
InstruID : voa7.i
LabSampID : VSTD010

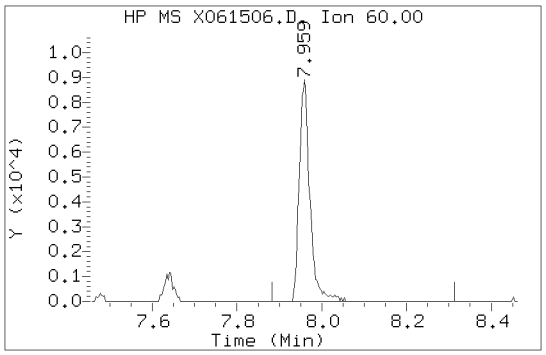
Tetrahydrothiophene (110-01-0)

Reason Code:

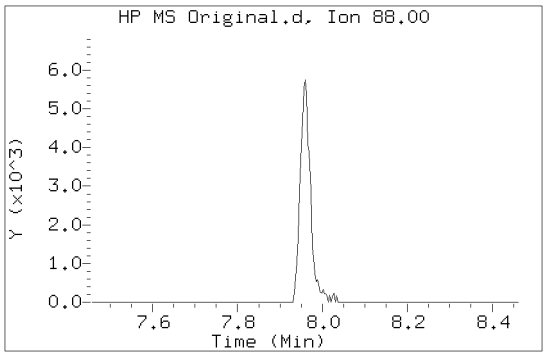
BEFORE
MASS
60
AREA
15450
HEIGHT
8912
12-Jul-2024
11:38
s
zaid



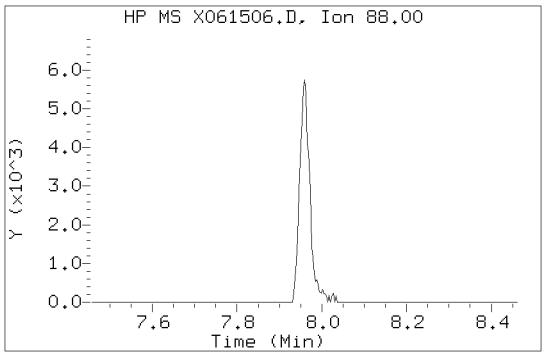
AFTER
MASS
60
AREA
15450
HEIGHT
8912
12-Jul-2024
11:38
s
zaid



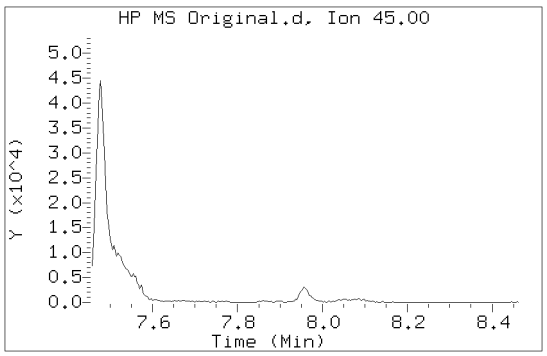
BEFORE
MASS
88
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



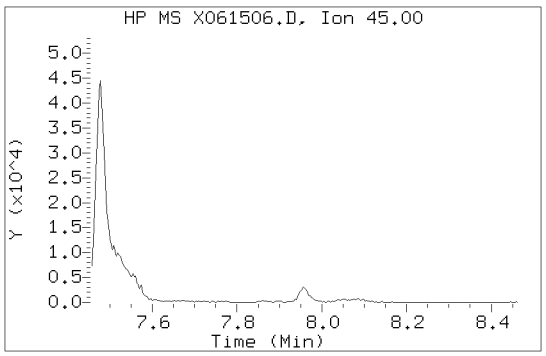
AFTER
MASS
88
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
45
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



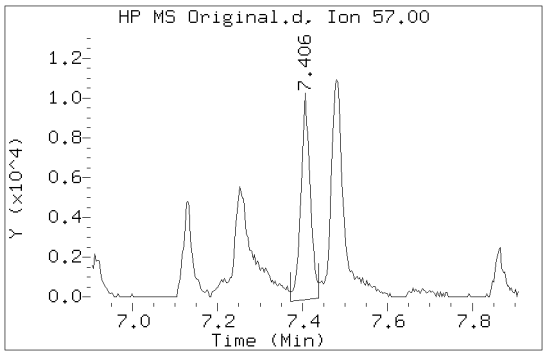
AFTER
MASS
45
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



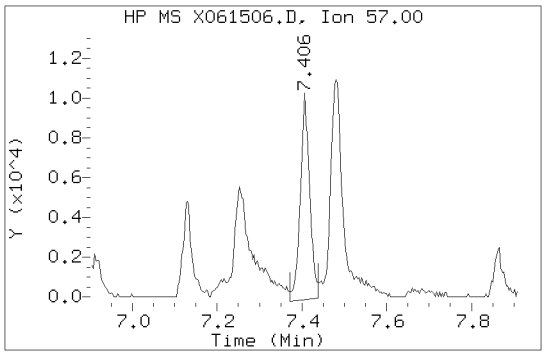
sec-Butyl Ether (6863-58-7)

Reason Code:

BEFORE
MASS
57
AREA
15913
HEIGHT
10382
12-Jul-2024
11:38
s
zaid



AFTER
MASS
57
AREA
15913
HEIGHT
10382
12-Jul-2024
11:38
s
zaid

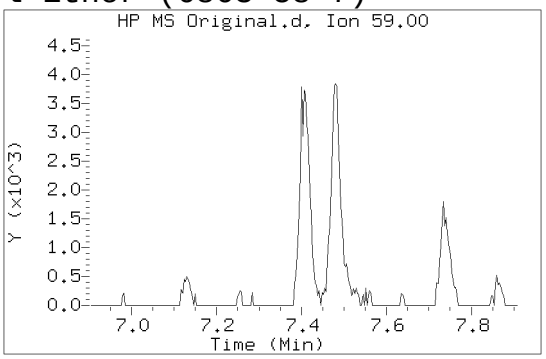


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061506.D
Inj Date : 15-JUN-2024 15:32
InstruID : voa7.i
LabSampID : VSTD010

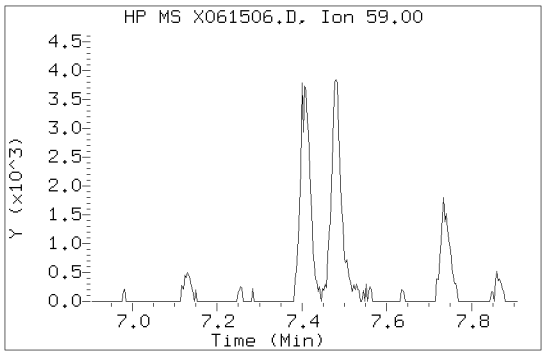
sec-Butyl Ether (6863-58-7)

Reason Code:

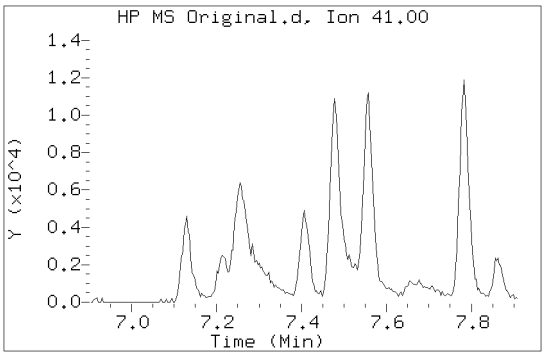
BEFORE
MASS
59
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



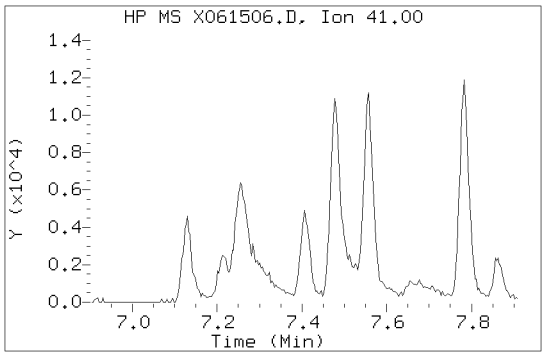
AFTER
MASS
59
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



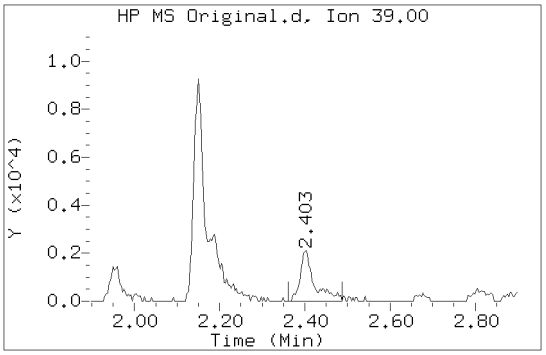
AFTER
MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



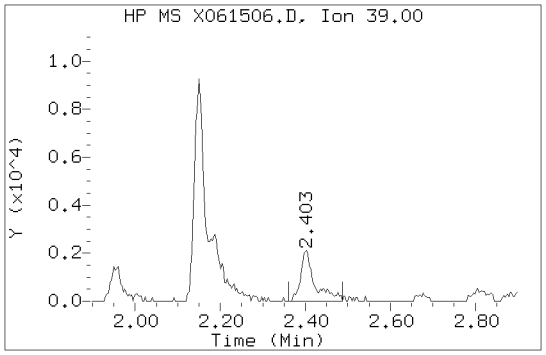
Isoprene (78-79-5)

Reason Code:

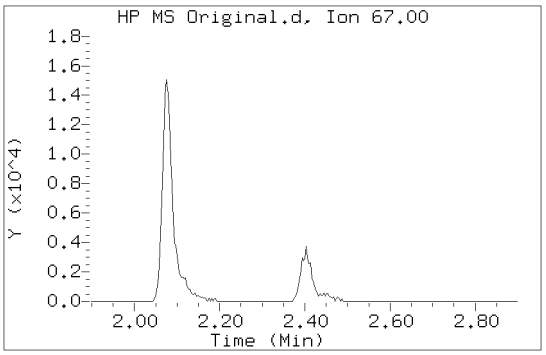
BEFORE
MASS
39
AREA
4929
HEIGHT
2128
12-Jul-2024
11:38
s
zaid



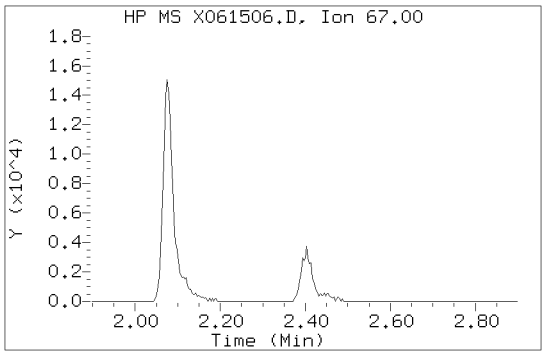
AFTER
MASS
39
AREA
4929
HEIGHT
2128
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
67
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER
MASS
67
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



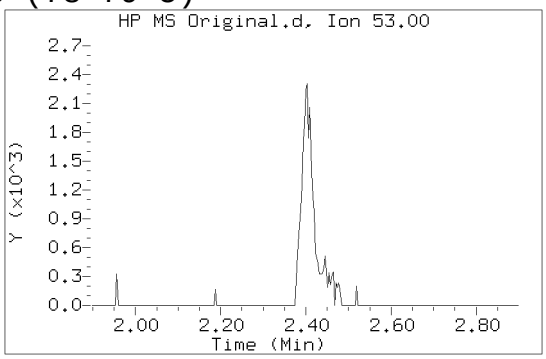
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061506.D
Inj Date : 15-JUN-2024 15:32
InstruID : voa7.i
LabSampID : VSTD010

Isoprene (78-79-5)

Reason Code:

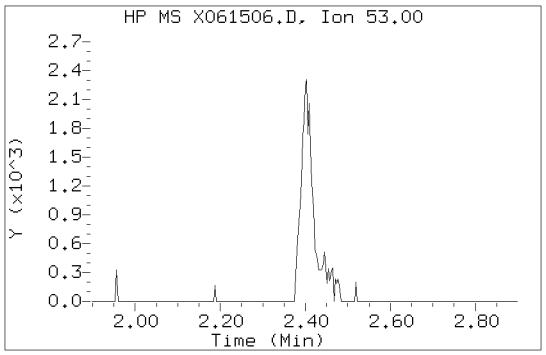
BEFORE

MASS
53
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
53
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061507.D Page 1
Report Date: 12-Jul-2024 11:43

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061507.D
Lab Smp Id: VSTD020 Client Smp ID: VSTD020
Inj Date : 15-JUN-2024 15:55
Operator : AP Inst ID: voa7.i
Smp Info : VSTD020;VSTD020;1;6
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240615.b\8260W.m
Meth Date : 12-Jul-2024 11:43 voa7.i Quant Type: ISTD
Cal Date : 15-JUN-2024 17:04 Cal File: X061510.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	5.133	5.133	(1.000)	124594	50.0000	
2	Dichlorodifluoromethane	85	1.297	1.297	(0.253)	28839	20.0000	21.63
159	Dichlorofluoromethane	67	2.075	2.075	(0.404)	52647	20.0000	20.29
3	Chloromethane	50	1.448	1.448	(0.282)	41944	20.0000	21.28
4	Propionitrile	54	4.673	4.673	(0.910)	35353	200.000	204.16
5	Vinyl Chloride	62	1.535	1.535	(0.299)	36777	20.0000	20.83
6	Bromomethane	94	1.811	1.811	(0.353)	20870	20.0000	21.22
7	Chloroethane	64	1.898	1.898	(0.370)	22690	20.0000	21.00
8	Trichlorofluoromethane	101	2.110	2.110	(0.411)	48951	20.0000	21.30
9	Acrolein	56	2.519	2.519	(0.491)	1369	40.0000	38.99
10	Acetone	43	2.667	2.667	(0.520)	20213	40.0000	43.42
11	1,1-Dichloroethene	96	2.593	2.593	(0.505)	26084	20.0000	20.43
12	Isobutyl Alcohol	43	5.573	5.573	(1.086)	89796	400.000	422.96
13	Acetonitrile	39	2.959	2.959	(0.577)	42483	200.000	216.58
14	Allyl Chloride	41	2.959	2.959	(0.577)	86958	20.0000	21.16
15	Iodomethane	142	2.741	2.741	(0.534)	58277	40.0000	38.24
16	Acrylonitrile	53	3.377	3.377	(0.658)	19099	40.0000	43.09
17	Methylene Chloride	84	3.094	3.094	(0.603)	32051	20.0000	20.75
18	Methyl tert-butyl ether	73	3.381	3.381	(0.659)	71378	20.0000	20.33
19	Carbon Disulfide	76	2.795	2.795	(0.545)	166994	40.0000	42.10

20 trans-1,2-Dichloroethene	96	3.377	3.377 (0.658)	28094	20.0000	20.93
21 Vinyl Acetate	43	4.660	4.660 (0.908)	31984	40.0000	43.56

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061507.D Page 2
Report Date: 12-Jul-2024 11:43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
22	1,1-Dichloroethane	63	3.863	3.863	(0.753)	56413	20.0000	19.25
23	Chloroprene	53	3.966	3.966	(0.773)	48530	20.0000	20.83
24	2-Butanone	43	4.589	4.589	(0.894)	26703	40.0000	42.88
25	Methacrylonitrile	41	2.149	2.149	(0.419)	44332	20.0000	21.34
26	2,2-Dichloropropane	77	4.538	4.538	(0.884)	49271	20.0000	19.81
27	cis-1,2-Dichloroethene	96	4.548	4.548	(0.886)	30961	20.0000	20.50
28	Chloroform	83	4.905	4.905	(0.956)	56287	20.0000	20.76
29	Bromochloromethane	128	4.805	4.805	(0.936)	14921	20.0000	20.36
$ 30	Dibromofluoromethane	113	5.072	5.072	(0.988)	28103	20.0000	20.45
31	1,1,1-Trichloroethane	97	5.072	5.072	(0.988)	47625	20.0000	20.36
32	1,1-Dichloropropene	75	5.245	5.245	(0.896)	42007	20.0000	20.62
33	1,2-Dichloroethane	62	5.490	5.490	(0.938)	44715	20.0000	19.53
34	Carbon Tetrachloride	117	5.236	5.236	(0.895)	39998	20.0000	19.91
$ 35	1,2-Dichloroethane-d4	65	5.416	5.416	(1.055)	36252	20.0000	19.79
* 36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	208409	50.0000	
37	Benzene	78	5.454	5.454	(0.932)	118343	20.0000	21.02
38	Trichloroethene	130	6.085	6.085	(1.040)	29895	20.0000	20.74
39	Bromodichloromethane	83	6.573	6.573	(1.123)	42819	20.0000	18.45
40	Methyl Methacrylate	41	6.432	6.432	(1.253)	30778	20.0000	22.12
41	2-Chloroethylvinyl ether	63	6.856	6.856	(1.171)	23020	40.0000	40.76
42	1,2-Dichloropropane	63	6.310	6.310	(1.078)	33533	20.0000	20.72
43	2-Nitropropane	43	6.802	6.802	(1.325)	9001	20.0000	20.35
44	Dibromomethane	93	6.422	6.422	(1.097)	18203	20.0000	19.90
45	4-Methyl-2-Pentanone	43	7.126	7.126	(0.842)	62229	40.0000	41.65
46	cis-1,3-Dichloropropene	75	6.975	6.975	(1.192)	45737	20.0000	20.27
* 47	Chlorobenzene-d5	117	8.467	8.467	(1.000)	194699	50.0000	
$ 48	Toluene-d8	98	7.207	7.207	(0.851)	99784	20.0000	20.40
49	Ethyl Methacrylate	69	8.078	8.078	(1.380)	34541	20.0000	19.32
50	Toluene	91	7.265	7.265	(0.858)	122540	20.0000	20.96
51	trans-1,3-Dichloropropene	75	6.975	6.975	(1.192)	45737	20.0000	20.27
52	2-Hexanone	43	7.863	7.863	(0.929)	41660	40.0000	40.54
53	1,1,2-Trichloroethane	83	7.641	7.641	(0.902)	22410	20.0000	20.23
54	1,3-Dichloropropane	76	7.785	7.785	(0.919)	49217	20.0000	20.75
55	Dibromochloromethane	129	7.975	7.975	(0.942)	29764	20.0000	18.66
56	Tetrachloroethene	164	7.734	7.734	(0.913)	23595	20.0000	21.34
57	1,2-Dibromoethane	107	8.072	8.072	(0.953)	24851	20.0000	21.14
58	1-Chlorohexane	55	8.470	8.470	(1.447)	32894	20.0000	21.56
59	Chlorobenzene	112	8.490	8.490	(1.003)	80596	20.0000	21.03
60	1,1,1,2-Tetrachloroethane	131	8.567	8.567	(1.012)	26330	20.0000	19.77
61	Ethylbenzene	106	8.580	8.580	(1.013)	41428	20.0000	20.99
62	m,p-Xylenes	106	8.683	8.683	(1.025)	102849	40.0000	41.60
63	o-Xylene	106	9.027	9.027	(1.066)	50923	20.0000	21.24
64	Styrene	104	9.039	9.039	(1.068)	88577	20.0000	20.96
66	Bromoform	173	9.203	9.203	(1.087)	18630	20.0000	18.52
67	Isopropylbenzene	105	9.338	9.338	(1.103)	129852	20.0000	21.12
68	1,1,2,2-Tetrachloroethane	83	9.612	9.612	(0.919)	34557	20.0000	20.50
$ 69	4-Bromofluorobenzene	95	9.474	9.474	(1.119)	39550	20.0000	19.81
* 70	1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	98711	50.0000	
71	1,2,3-Trichloropropane	75	9.647	9.647	(0.923)	39172	20.0000	20.56
72	trans-1,4-Dichloro-2-butene	53	9.657	9.657	(1.140)	8453	20.0000	20.02
73	n-Propylbenzene	91	9.689	9.689	(0.927)	156297	20.0000	21.22
74	Bromobenzene	156	9.602	9.602	(0.918)	33759	20.0000	20.94

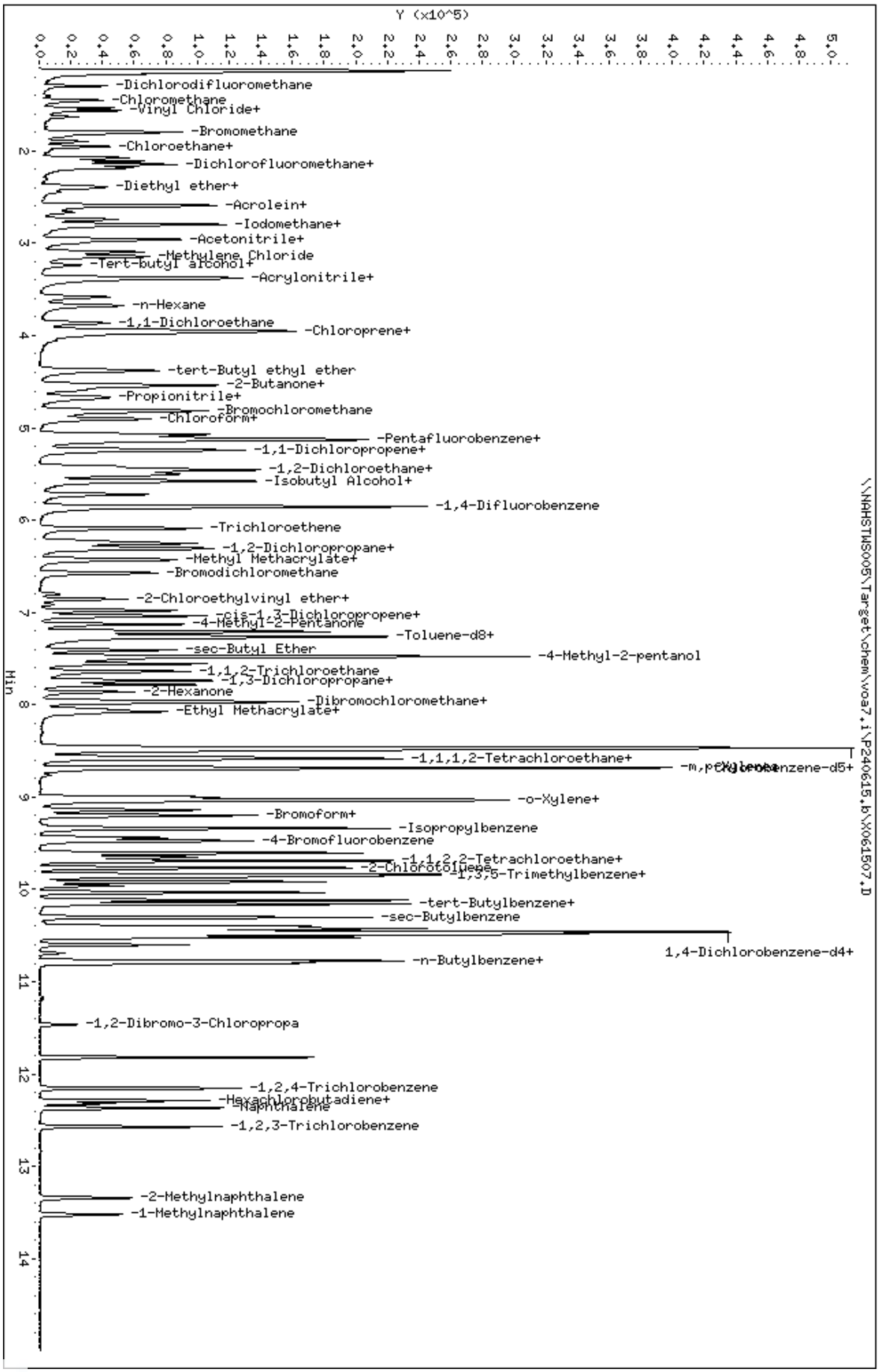
75	1,3,5-Trimethylbenzene	105	9.837	9.837 (0.941)	111094	20.0000	21.07
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	96301	20.0000	21.26

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061507.D Page 3
Report Date: 12-Jul-2024 11:43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
77	4-Chlorotoluene	91	9.859	9.859	(0.943)	112941	20.0000	21.18
78	tert-Butylbenzene	119	10.117	10.117	(0.967)	93334	20.0000	21.35
79	1,2,4-Trimethylbenzene	105	10.158	10.158	(0.971)	111249	20.0000	21.16
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	126981	20.0000	21.21
82	p-Isopropyltoluene	119	10.425	10.425	(0.997)	112629	20.0000	20.88
83	1,3-Dichlorobenzene	146	10.403	10.403	(0.995)	61913	20.0000	20.89
84	1,4-Dichlorobenzene	146	10.477	10.477	(1.002)	63976	20.0000	21.00
87	n-Butylbenzene	91	10.772	10.772	(1.030)	106249	20.0000	20.93
88	1,2-Dichlorobenzene	146	10.798	10.798	(1.033)	58851	20.0000	20.63
89	1,2-Dibromo-3-Chloropropane	75	11.461	11.461	(1.096)	5385	20.0000	18.45
90	1,2,4-Trichlorobenzene	180	12.152	12.152	(1.162)	35263	20.0000	19.34
91	Hexachlorobutadiene	225	12.287	12.287	(1.175)	17891	20.0000	20.41
92	Naphthalene	128	12.367	12.367	(1.183)	76418	20.0000	18.04
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	28600	20.0000	18.55
135	1,4-Dioxane	88	6.448	6.448	(1.256)	3941	400.000	382.08(TAM)
146	Methyl acetate	43	2.991	2.991	(0.583)	21764	20.0000	21.11(T)
138	Freon TF	101	2.593	2.593	(0.505)	26055	20.0000	20.69
139	Diethyl ether	59	2.384	2.384	(0.464)	16456	20.0000	18.11
140	1,3-Butadiene	54	1.564	1.564	(0.305)	16653	20.0000	21.08
141	Cyclohexane	56	5.110	5.110	(0.996)	46236	20.0000	20.49
147	Methylcyclohexane	83	6.249	6.249	(1.068)	39114	20.0000	20.09
132	n-Butanol	56	6.249	6.249	(1.217)	17201	400.000	433.56(T)
131	Methyl Acrylate	55	4.689	4.689	(0.914)	29836	20.0000	21.09
133	Ethyl Acrylate	55	6.223	6.223	(1.212)	71264	20.0000	20.32
136	n-Hexane	57	3.676	3.676	(0.716)	31606	20.0000	20.29
142	Tetrahydrofuran	42	4.863	4.863	(0.947)	9492	40.0000	41.68
148	Tert-butyl alcohol	59	3.239	3.239	(0.631)	35062	400.000	381.32
149	Isopropyl alcohol	45	2.815	2.815	(0.548)	28470	400.000	435.56
151	4-Methyl-2-pentanol	45	7.477	7.477	(0.883)	205136	400.000	398.00
166	1,2,3-Trimethylbenzene	105	10.518	10.518	(1.006)	97162	20.0000	19.11
167	Ethanol	45	2.307	2.307	(0.449)	4446	400.000	403.25
172	tert-Butyl formate	59	3.239	3.239	(0.631)	35062	40.0000	44.12
173	3,3-Dimethyl-1-butanol	57	8.046	8.046	(0.950)	46934	400.000	380.13
174	tert-Amyl methyl ether	73	5.577	5.577	(1.086)	78689	20.0000	20.58
175	tert-Butyl ethyl ether	59	4.377	4.377	(0.853)	83072	20.0000	19.55
157	2-Methylnaphthalene	142	13.342	13.342	(1.276)	28291	20.0000	18.35
156	Diisopropyl ether	45	3.946	3.946	(0.769)	95776	20.0000	19.35(T)
171	1-Methylnaphthalene	142	13.522	13.522	(1.293)	23644	20.0000	17.35
130	Ethyl Acetate	43	3.946	3.946	(0.769)	170533	20.0000	19.73(T)
176	tert-Amyl alcohol	59	5.515	5.515	(1.075)	31609	400.000	415.00(A)
160	Epichlorohydrin	57	6.917	6.917	(1.182)	7172	80.0000	80.14
161	Butyl acrylate	55	8.998	8.998	(1.063)	64266	20.0000	19.58
182	Isobutylene	56	1.956	1.956	(0.381)	4122	20.0000	20.63(AM)
183	Isopropyl Acetate	43	5.573	5.573	(0.952)	89796	20.0000	21.11(A)
184	n-Amyl acetate	43	9.194	9.194	(1.086)	61241	20.0000	19.49(A)
185	Acetaldehyde	44	1.631	1.631	(0.318)	18371	80.0000	89.09(AM)
186	n-Butyl acetate	43	7.969	7.969	(0.941)	46894	20.0000	19.79(TAM)
187	2-Etyhlhexyl Acrylate	55	12.319	12.319	(1.178)	14116	20.0000	14.43(AM)
188	Tetrahydrothiophene	60	7.959	7.959	(0.940)	30843	20.0000	19.95(TAM)
189	sec-Butyl Ether	57	7.406	7.406	(0.875)	30749	20.0000	22.38(TAM)
190	Isoprene	39	2.403	2.403	(0.468)	7304	20.0000	19.30(TAM)
191	2-Chloropropene	41	2.149	2.149	(0.419)	44332	20.0000	20.68(A)

QC Flag Legend

T - Target compound detected outside RT window.
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061507.D
Date : 15-JUN-2024 15:55
Client ID: VSTD020
Sample Info: VSTD020;VSTD020;1;6
Purge Volume: 5.0
Column phase: DB624

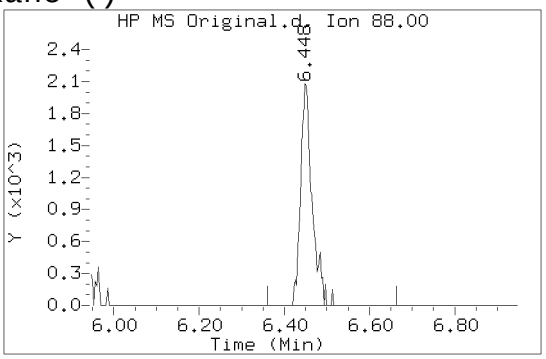
Instrument: voa7.i
Operator: AP
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061507.D
Inj Date : 15-JUN-2024 15:55
InstruID : voa7.i
LabSampID : VSTD020

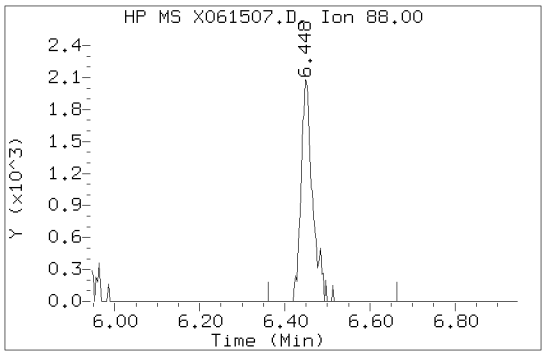
1,4-Dioxane ()

Reason Code:

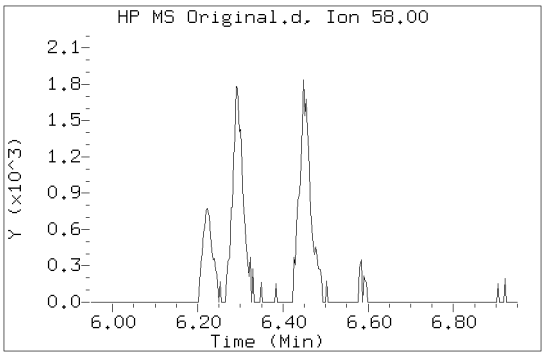
BEFORE
MASS
88
AREA
3941
HEIGHT
2081
12-Jul-2024
11:43
s
zaid



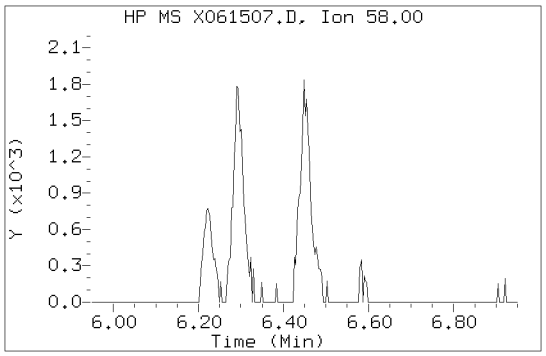
AFTER
MASS
88
AREA
3941
HEIGHT
2081
12-Jul-2024
11:43
s
zaid



BEFORE
MASS
58
AREA
259
HEIGHT
245
12-Jul-2024
11:43
s
zaid



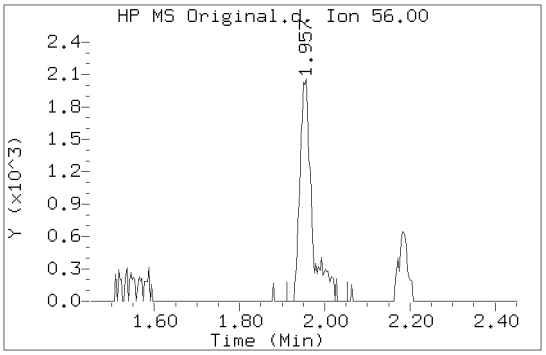
AFTER
MASS
58
AREA
259
HEIGHT
245
12-Jul-2024
11:43
s
zaid



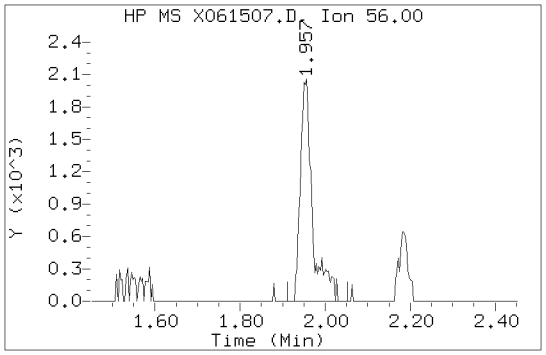
Isobutylene (115-11-7)

Reason Code:

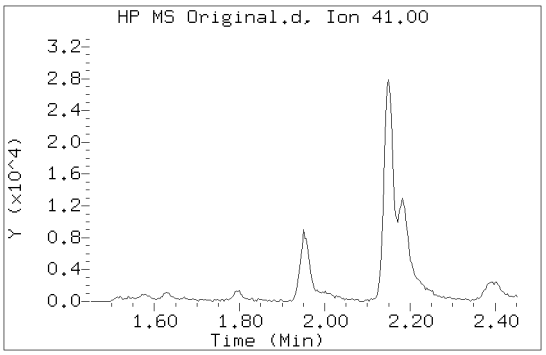
BEFORE
MASS
56
AREA
4122
HEIGHT
2058
12-Jul-2024
11:43
s
zaid



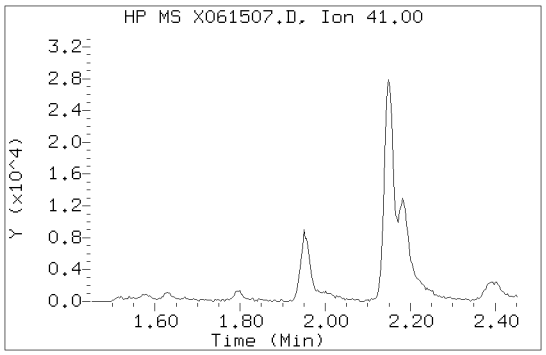
AFTER
MASS
56
AREA
4122
HEIGHT
2058
12-Jul-2024
11:43
s
zaid



BEFORE
MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:43
s
zaid



AFTER
MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:43
s
zaid



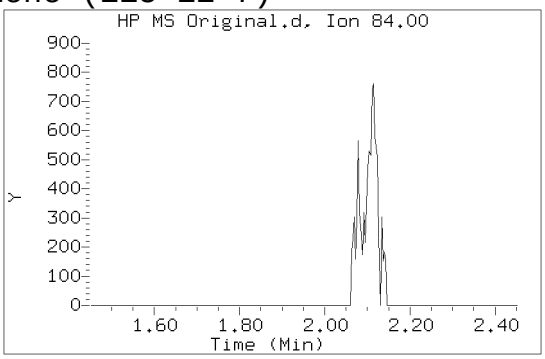
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061507.D
Inj Date : 15-JUN-2024 15:55
InstruID : voa7.i
LabSampID : VSTD020

Isobutylene (115-11-7)

Reason Code:

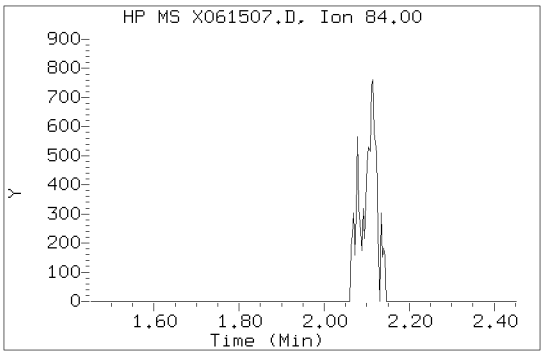
BEFORE

MASS
84
AREA
0
HEIGHT
0
12-Jul-2024
11:43
s
zaid



AFTER

MASS
84
AREA
0
HEIGHT
0
12-Jul-2024
11:43
s
zaid

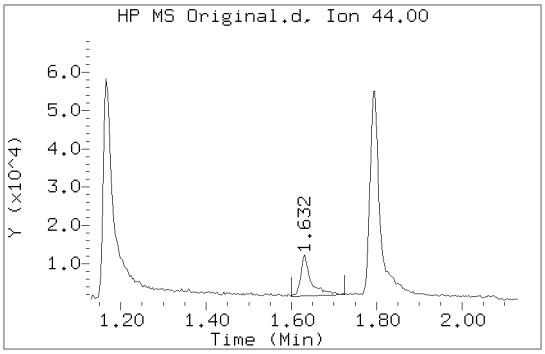


Acetaldehyde (75-07-0)

Reason Code:

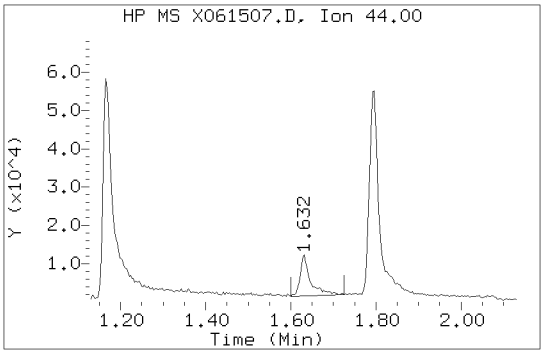
BEFORE

MASS
44
AREA
18371
HEIGHT
10617
12-Jul-2024
11:43
s
zaid



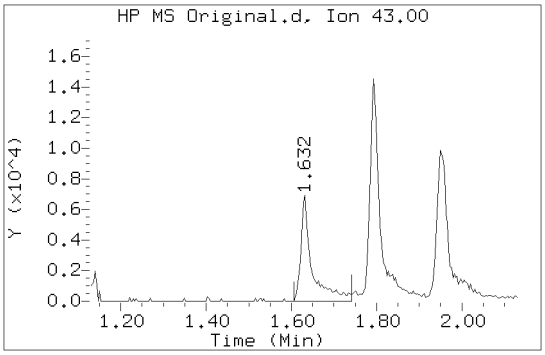
AFTER

MASS
44
AREA
18371
HEIGHT
10617
12-Jul-2024
11:43
s
zaid



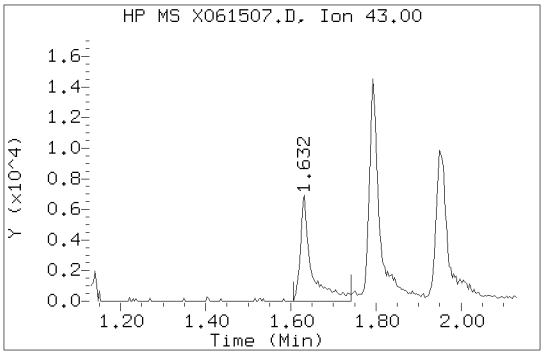
BEFORE

MASS
43
AREA
12810
HEIGHT
6922
12-Jul-2024
11:43
s
zaid



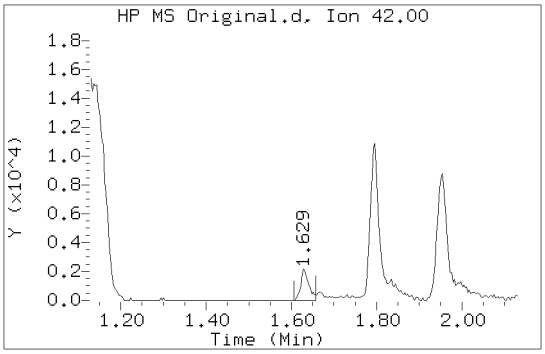
AFTER

MASS
43
AREA
12810
HEIGHT
6922
12-Jul-2024
11:43
s
zaid



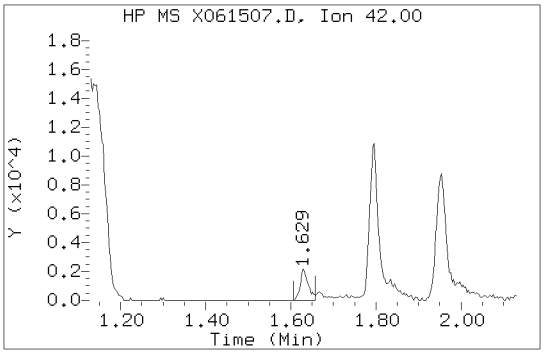
BEFORE

MASS
42
AREA
2914
HEIGHT
2183
12-Jul-2024
11:43
s
zaid



AFTER

MASS
42
AREA
2914
HEIGHT
2183
12-Jul-2024
11:43
s
zaid



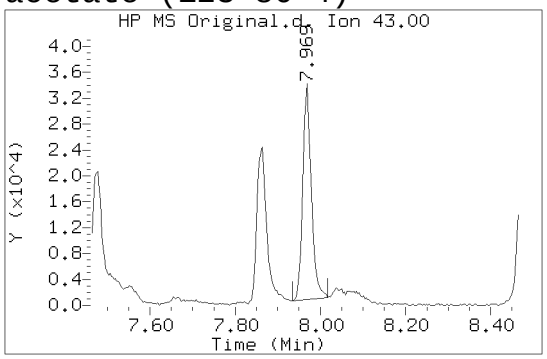
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061507.D
Inj Date : 15-JUN-2024 15:55
InstruID : voa7.i
LabSampID : VSTD020

n-Butyl acetate (123-86-4)

Reason Code:

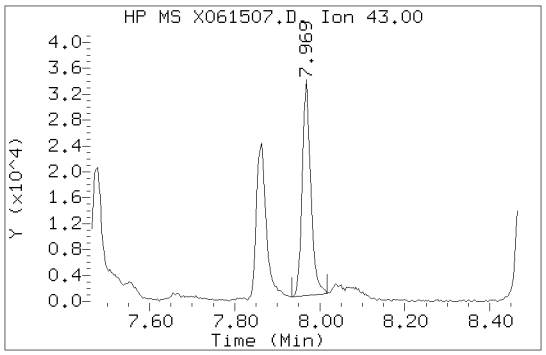
BEFORE

MASS
43
AREA
46894
HEIGHT
33340
12-Jul-2024
11:43
s
zaid



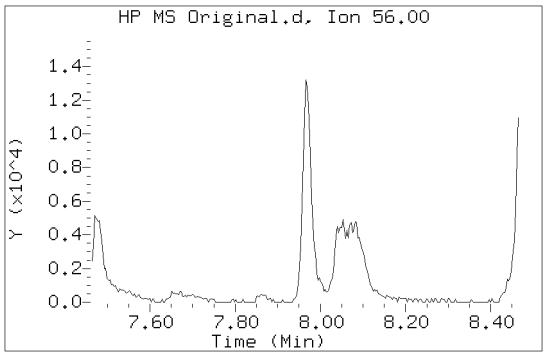
AFTER

MASS
43
AREA
46894
HEIGHT
33340
12-Jul-2024
11:43
s
zaid



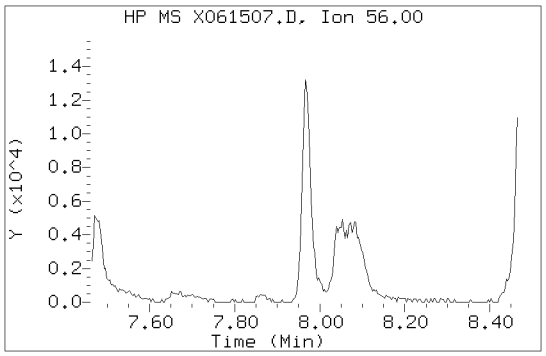
BEFORE

MASS
56
AREA
0
HEIGHT
0
12-Jul-2024
11:43
s
zaid



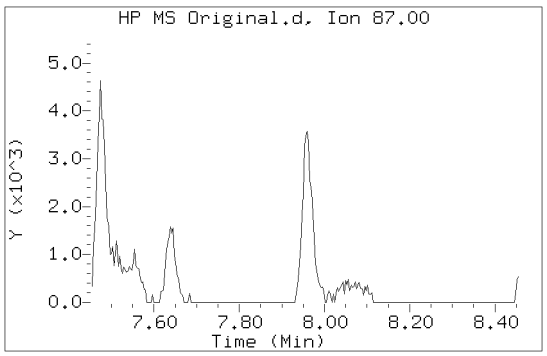
AFTER

MASS
56
AREA
0
HEIGHT
0
12-Jul-2024
11:43
s
zaid



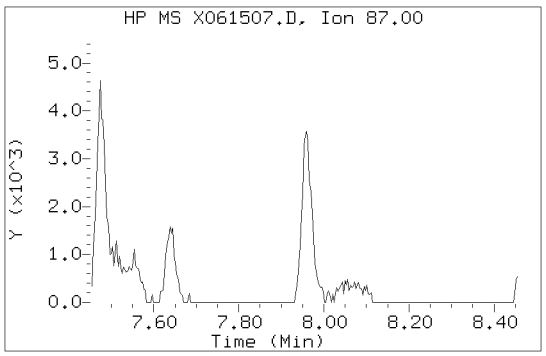
BEFORE

MASS
87
AREA
0
HEIGHT
0
12-Jul-2024
11:43
s
zaid



AFTER

MASS
87
AREA
0
HEIGHT
0
12-Jul-2024
11:43
s
zaid

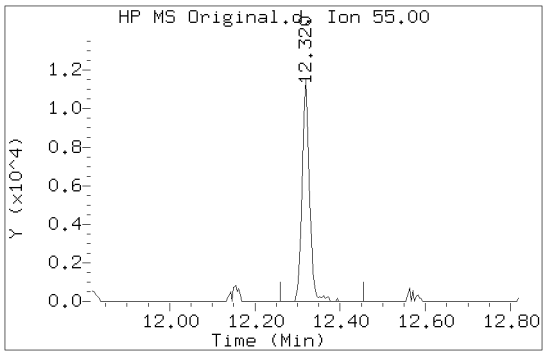


2-Etyhlhexyl Acrylate (103-11-7)

Reason Code:

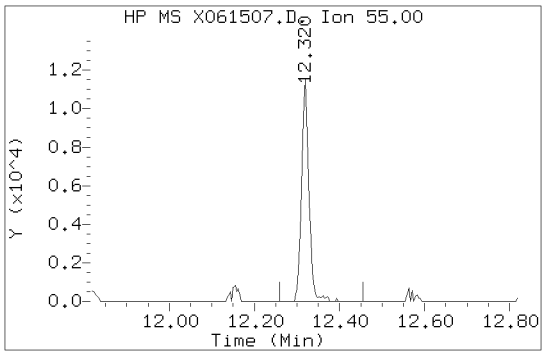
BEFORE

MASS
55
AREA
14116
HEIGHT
11505
12-Jul-2024
11:43
s
zaid



AFTER

MASS
55
AREA
14116
HEIGHT
11505
12-Jul-2024
11:43
s
zaid

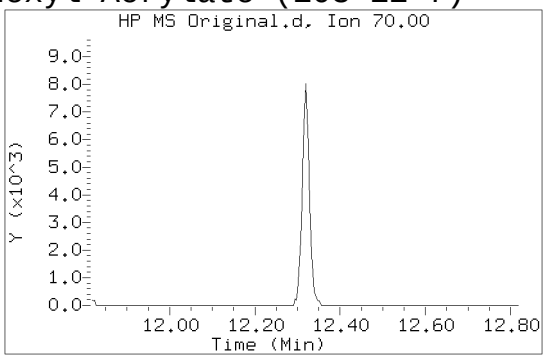


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061507.D
Inj Date : 15-JUN-2024 15:55
InstruID : voa7.i
LabSampID : VSTD020

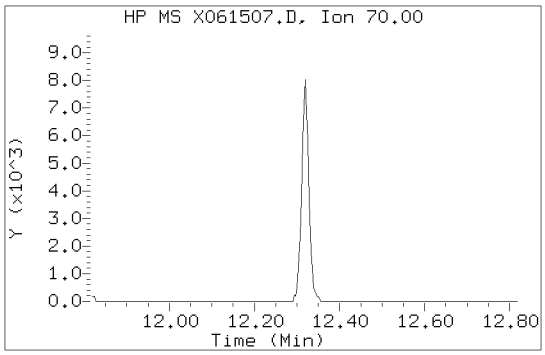
2-Etyhlhexyl Acrylate (103-11-7)

Reason Code:

BEFORE
MASS
70
AREA
0
HEIGHT
0
12-Jul-2024
11:43
s
zaid



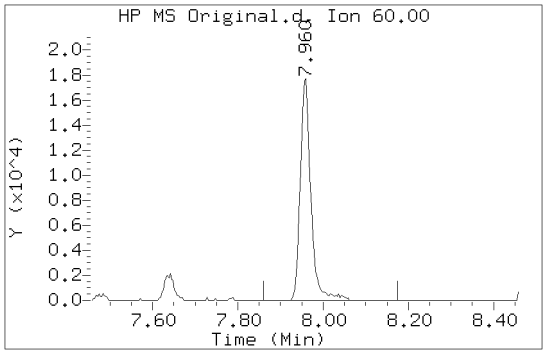
AFTER
MASS
70
AREA
0
HEIGHT
0
12-Jul-2024
11:43
s
zaid



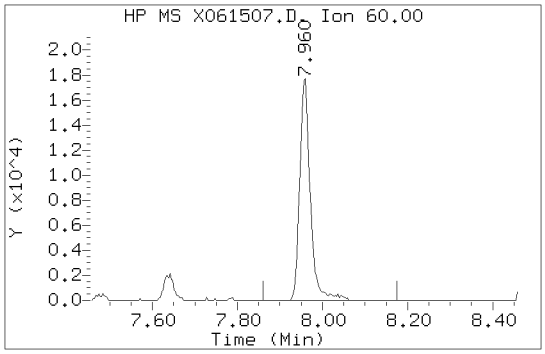
Tetrahydrothiophene (110-01-0)

Reason Code:

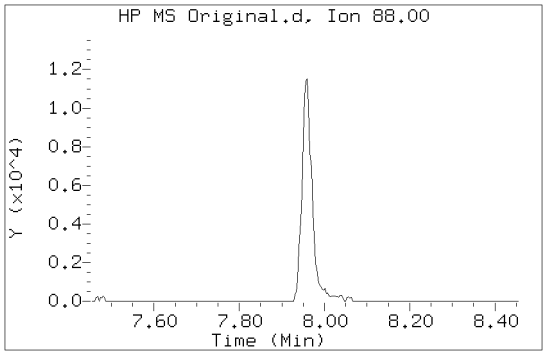
BEFORE
MASS
60
AREA
30843
HEIGHT
17712
12-Jul-2024
11:43
s
zaid



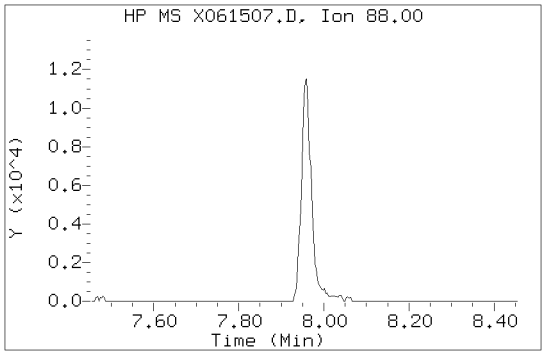
AFTER
MASS
60
AREA
30843
HEIGHT
17712
12-Jul-2024
11:43
s
zaid



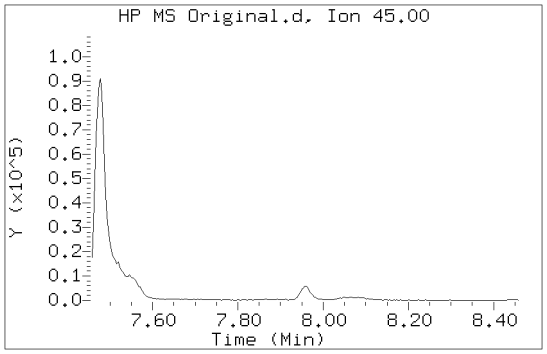
BEFORE
MASS
88
AREA
0
HEIGHT
0
12-Jul-2024
11:43
s
zaid



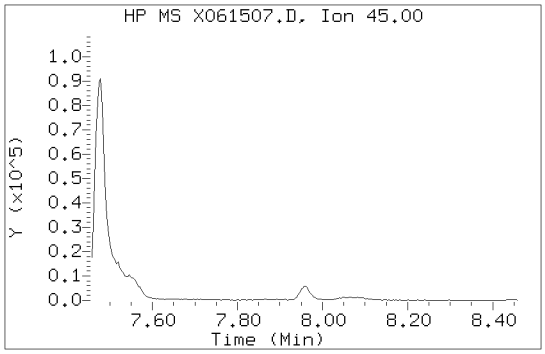
AFTER
MASS
88
AREA
0
HEIGHT
0
12-Jul-2024
11:43
s
zaid



BEFORE
MASS
45
AREA
0
HEIGHT
0
12-Jul-2024
11:43
s
zaid



AFTER
MASS
45
AREA
0
HEIGHT
0
12-Jul-2024
11:43
s
zaid



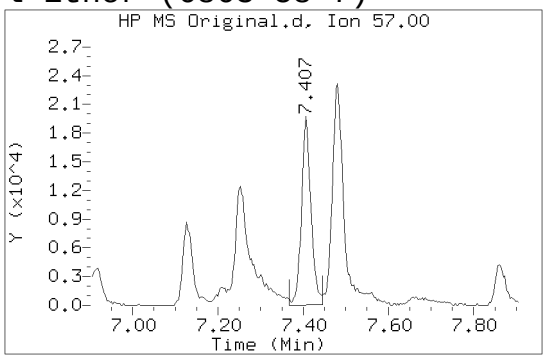
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061507.D
Inj Date : 15-JUN-2024 15:55
InstruID : voa7.i
LabSampID : VSTD020

sec-Butyl Ether (6863-58-7)

Reason Code:

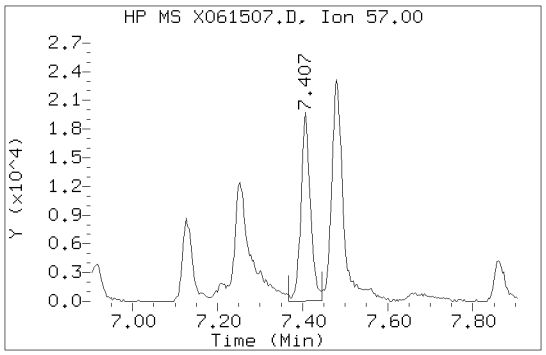
BEFORE

MASS
57
AREA
30749
HEIGHT
19745
12-Jul-2024
11:43
s
zaid



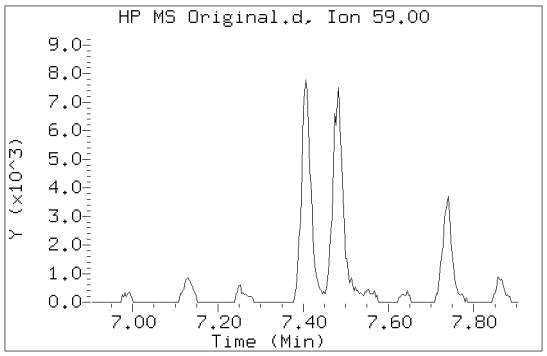
AFTER

MASS
57
AREA
30749
HEIGHT
19745
12-Jul-2024
11:43
s
zaid



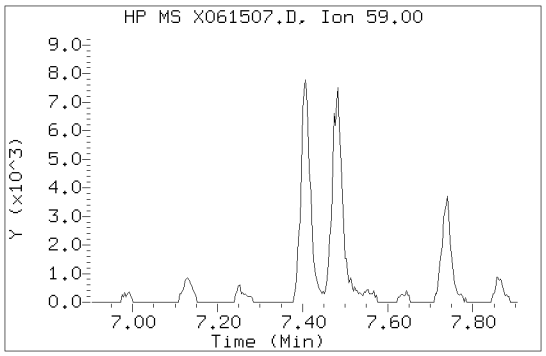
BEFORE

MASS
59
AREA
0
HEIGHT
0
12-Jul-2024
11:43
s
zaid



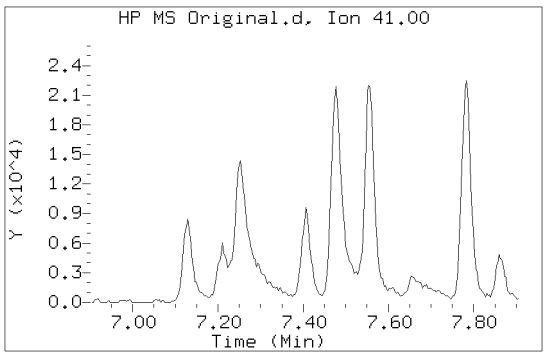
AFTER

MASS
59
AREA
0
HEIGHT
0
12-Jul-2024
11:43
s
zaid



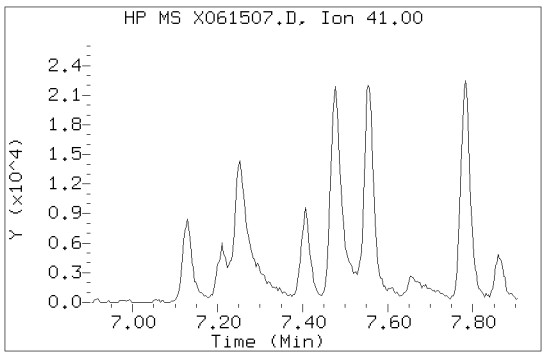
BEFORE

MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:43
s
zaid



AFTER

MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:43
s
zaid

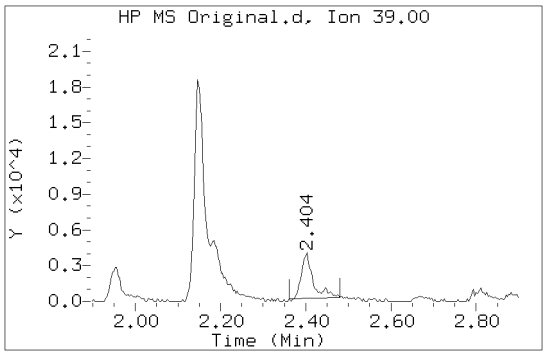


Isoprene (78-79-5)

Reason Code:

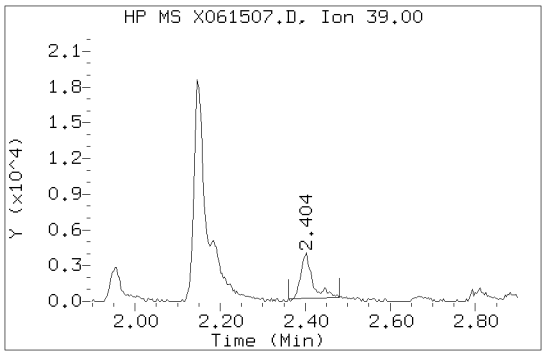
BEFORE

MASS
39
AREA
7304
HEIGHT
3854
12-Jul-2024
11:43
s
zaid



AFTER

MASS
39
AREA
7304
HEIGHT
3854
12-Jul-2024
11:43
s
zaid

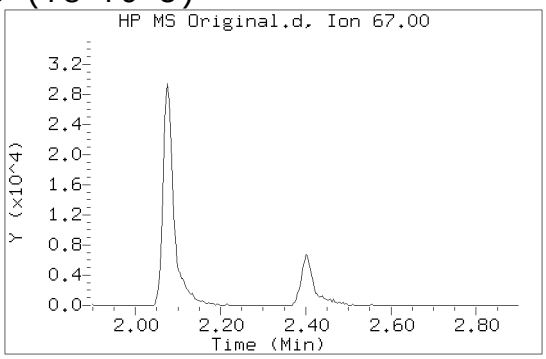


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061507.D
Inj Date : 15-JUN-2024 15:55
InstruID : voa7.i
LabSampID : VSTD020

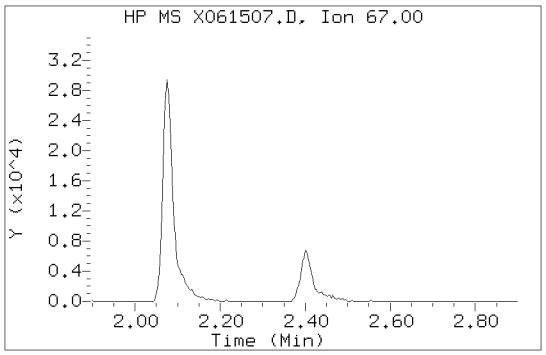
Isoprene (78-79-5)

Reason Code:

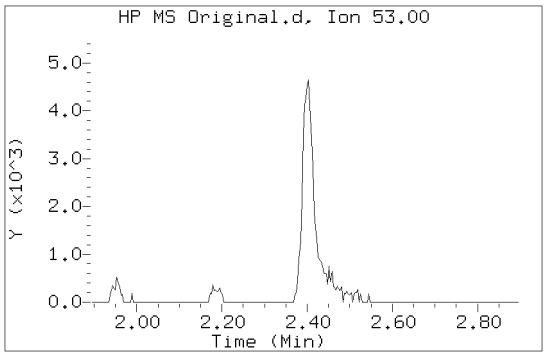
BEFORE
MASS
67
AREA
0
HEIGHT
0
12-Jul-2024
11:43
s
zaid



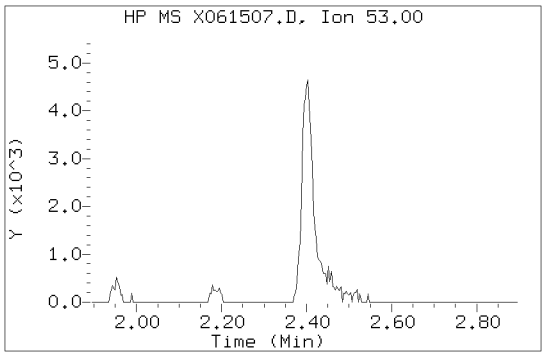
AFTER
MASS
67
AREA
0
HEIGHT
0
12-Jul-2024
11:43
s
zaid



BEFORE
MASS
53
AREA
0
HEIGHT
0
12-Jul-2024
11:43
s
zaid



AFTER
MASS
53
AREA
0
HEIGHT
0
12-Jul-2024
11:43
s
zaid



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061508.D Page 1
Report Date: 12-Jul-2024 11:38

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061508.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 15-JUN-2024 16:18
Operator : AP Inst ID: voa7.i
Smp Info : VSTD050;VSTD050;1;7
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240615.b\8260W.m
Meth Date : 12-Jul-2024 11:38 voa7.i Quant Type: ISTD
Cal Date : 15-JUN-2024 15:55 Cal File: X061507.D
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	5.130	5.130	(1.000)	128344	50.0000	
2	Dichlorodifluoromethane	85	1.294	1.294	(0.252)	67807	50.0000	49.82
159	Dichlorofluoromethane	67	2.072	2.072	(0.404)	127004	50.0000	47.51
3	Chloromethane	50	1.448	1.448	(0.282)	99995	50.0000	50.54
4	Propionitrile	54	4.667	4.667	(0.910)	88867	500.000	512.34
5	Vinyl Chloride	62	1.535	1.535	(0.299)	89994	50.0000	49.69
6	Bromomethane	94	1.805	1.805	(0.352)	49751	50.0000	50.94
7	Chloroethane	64	1.892	1.892	(0.369)	55213	50.0000	50.19
8	Trichlorofluoromethane	101	2.110	2.110	(0.411)	118069	50.0000	50.37
9	Acrolein	56	2.512	2.512	(0.490)	3825	100.000	105.77
10	Acetone	43	2.663	2.663	(0.519)	46665	100.000	104.73
11	1,1-Dichloroethene	96	2.589	2.589	(0.505)	66065	50.0000	50.02
12	Isobutyl Alcohol	43	5.573	5.573	(1.086)	215753	1000.00	1011.38
13	Acetonitrile	39	2.959	2.959	(0.577)	98067	500.000	493.21
14	Allyl Chloride	41	2.956	2.956	(0.576)	208497	50.0000	50.54
15	Iodomethane	142	2.741	2.741	(0.534)	160800	100.000	95.98
16	Acrylonitrile	53	3.380	3.380	(0.659)	46177	100.000	102.38
17	Methylene Chloride	84	3.094	3.094	(0.603)	78686	50.0000	51.96
18	Methyl tert-butyl ether	73	3.380	3.380	(0.659)	173468	50.0000	47.58
19	Carbon Disulfide	76	2.795	2.795	(0.545)	403665	100.000	99.59

20 trans-1,2-Dichloroethene	96	3.374	3.374 (0.658)	69367	50.0000	50.56
21 Vinyl Acetate	43	4.657	4.657 (0.908)	77286	100.000	106.74

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061508.D Page 2
Report Date: 12-Jul-2024 11:38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
22	1,1-Dichloroethane	63	3.863	3.863	(0.753)	143941	50.0000	47.70
23	Chloroprene	53	3.962	3.962	(0.772)	119116	50.0000	49.70
24	2-Butanone	43	4.593	4.593	(0.895)	61852	100.000	101.76
25	Methacrylonitrile	41	2.149	2.149	(0.419)	106233	50.0000	49.66
26	2,2-Dichloropropane	77	4.532	4.532	(0.883)	123565	50.0000	48.24
27	cis-1,2-Dichloroethene	96	4.544	4.544	(0.886)	78589	50.0000	51.30
28	Chloroform	83	4.904	4.904	(0.956)	140096	50.0000	51.29
29	Bromochloromethane	128	4.808	4.808	(0.937)	38434	50.0000	51.53
$ 30	Dibromofluoromethane	113	5.072	5.072	(0.989)	70864	50.0000	51.81
31	1,1,1-Trichloroethane	97	5.068	5.068	(0.988)	121911	50.0000	50.61
32	1,1-Dichloropropene	75	5.242	5.242	(0.896)	104921	50.0000	49.78
33	1,2-Dichloroethane	62	5.493	5.493	(0.938)	119958	50.0000	51.53
34	Carbon Tetrachloride	117	5.232	5.232	(0.894)	103211	50.0000	48.45
$ 35	1,2-Dichloroethane-d4	65	5.416	5.416	(1.056)	95083	50.0000	52.10
* 36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	214883	50.0000	
37	Benzene	78	5.458	5.458	(0.932)	286859	50.0000	50.07
38	Trichloroethene	130	6.088	6.088	(1.040)	74816	50.0000	50.55
39	Bromodichloromethane	83	6.573	6.573	(1.123)	109283	50.0000	45.68
40	Methyl Methacrylate	41	6.432	6.432	(1.254)	67573	50.0000	49.16
41	2-Chloroethylvinyl ether	63	6.853	6.853	(1.171)	60694	100.000	103.86(A)
42	1,2-Dichloropropane	63	6.310	6.310	(1.078)	83636	50.0000	50.73
43	2-Nitropropane	43	6.798	6.798	(1.325)	21914	50.0000	47.62
44	Dibromomethane	93	6.419	6.419	(1.097)	47163	50.0000	50.08
45	4-Methyl-2-Pentanone	43	7.126	7.126	(0.842)	154085	100.000	104.42
46	cis-1,3-Dichloropropene	75	6.975	6.975	(1.192)	114066	50.0000	48.43
* 47	Chlorobenzene-d5	117	8.467	8.467	(1.000)	197365	50.0000	
$ 48	Toluene-d8	98	7.207	7.207	(0.851)	255028	50.0000	53.54
49	Ethyl Methacrylate	69	8.043	8.043	(1.374)	92940	50.0000	49.07
50	Toluene	91	7.265	7.265	(0.858)	300469	50.0000	51.62
51	trans-1,3-Dichloropropene	75	6.975	6.975	(1.192)	114066	50.0000	48.43
52	2-Hexanone	43	7.863	7.863	(0.929)	107938	100.000	108.26
53	1,1,2-Trichloroethane	83	7.637	7.637	(0.902)	58061	50.0000	53.04
54	1,3-Dichloropropane	76	7.782	7.782	(0.919)	122388	50.0000	52.03
55	Dibromochloromethane	129	7.978	7.978	(0.942)	78493	50.0000	48.55
56	Tetrachloroethene	164	7.737	7.737	(0.914)	57283	50.0000	51.22
57	1,2-Dibromoethane	107	8.075	8.075	(0.954)	59797	50.0000	51.45
58	1-Chlorohexane	55	8.470	8.470	(1.447)	76561	50.0000	51.64
59	Chlorobenzene	112	8.490	8.490	(1.003)	196413	50.0000	51.52
60	1,1,1,2-Tetrachloroethane	131	8.564	8.564	(1.011)	68615	50.0000	50.11
61	Ethylbenzene	106	8.583	8.583	(1.014)	103348	50.0000	52.44
62	m,p-Xylenes	106	8.682	8.682	(1.025)	254041	100.000	102.95
63	o-Xylene	106	9.023	9.023	(1.066)	124111	50.0000	52.12
64	Styrene	104	9.036	9.036	(1.067)	218355	50.0000	51.87
66	Bromoform	173	9.207	9.207	(1.087)	49923	50.0000	48.97
67	Isopropylbenzene	105	9.338	9.338	(1.103)	317579	50.0000	51.41
68	1,1,2,2-Tetrachloroethane	83	9.608	9.608	(0.919)	89714	50.0000	52.57
$ 69	4-Bromofluorobenzene	95	9.477	9.477	(1.119)	101258	50.0000	53.15
* 70	1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	102193	50.0000	
71	1,2,3-Trichloropropane	75	9.647	9.647	(0.923)	100875	50.0000	52.05
72	trans-1,4-Dichloro-2-butene	53	9.653	9.653	(1.140)	21969	50.0000	51.08
73	n-Propylbenzene	91	9.689	9.689	(0.927)	388200	50.0000	50.89
74	Bromobenzene	156	9.602	9.602	(0.918)	85404	50.0000	51.48

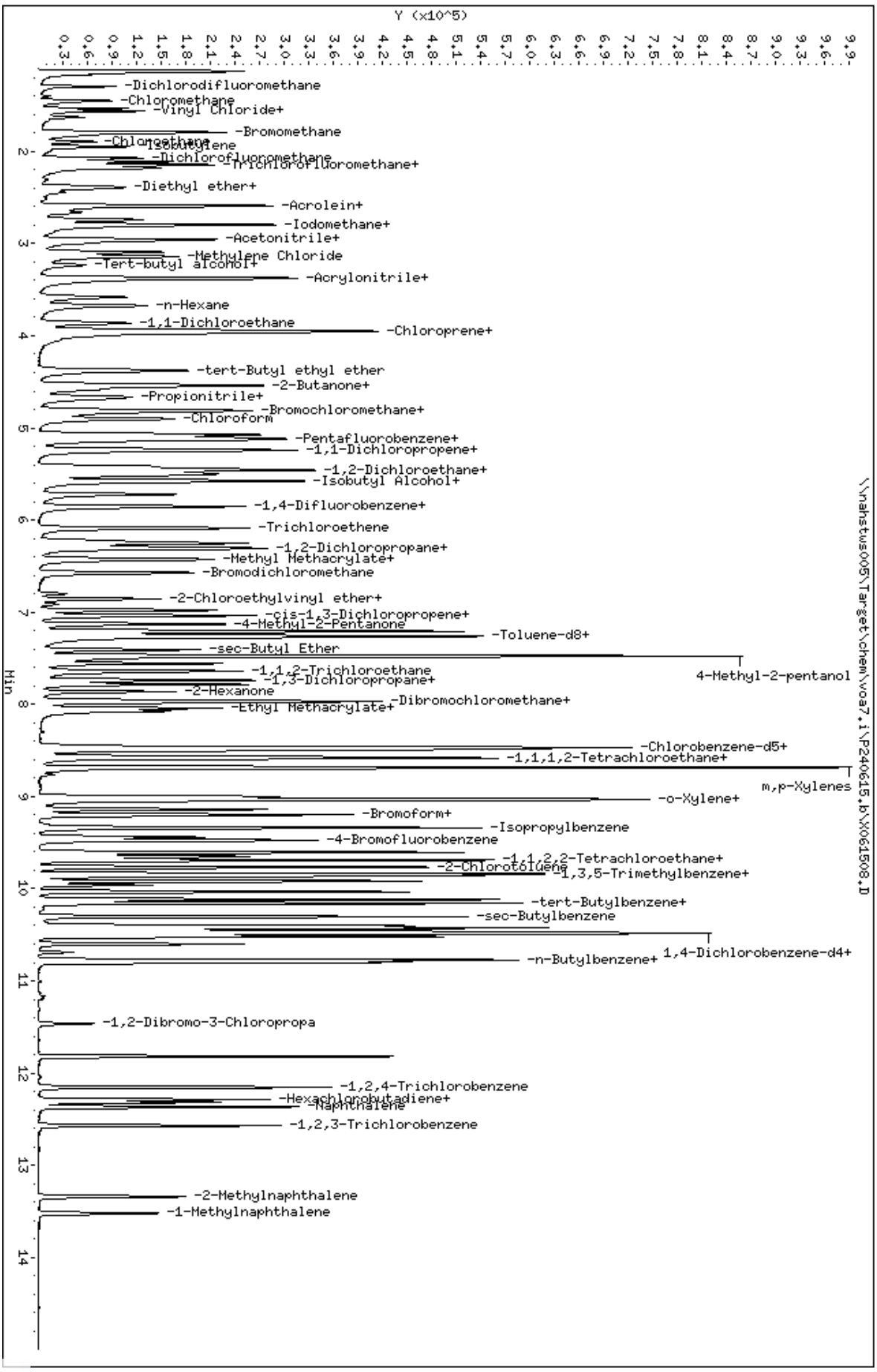
75	1,3,5-Trimethylbenzene	105	9.837	9.837 (0.941)	275793	50.0000	50.24
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	238653	50.0000	51.55

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061508.D Page 3
Report Date: 12-Jul-2024 11:38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
77	4-Chlorotoluene	91	9.859	9.859	(0.943)	282358	50.0000	51.52
78	tert-Butylbenzene	119	10.116	10.116	(0.967)	231832	50.0000	51.58
79	1,2,4-Trimethylbenzene	105	10.158	10.158	(0.971)	278876	50.0000	51.44
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	317082	50.0000	50.90
82	p-Isopropyltoluene	119	10.425	10.425	(0.997)	285951	50.0000	50.95
83	1,3-Dichlorobenzene	146	10.403	10.403	(0.995)	156769	50.0000	51.30
84	1,4-Dichlorobenzene	146	10.480	10.480	(1.002)	162202	50.0000	52.08
87	n-Butylbenzene	91	10.772	10.772	(1.030)	271859	50.0000	51.77
88	1,2-Dichlorobenzene	146	10.798	10.798	(1.033)	152096	50.0000	51.81
89	1,2-Dibromo-3-Chloropropane	75	11.464	11.464	(1.096)	14588	50.0000	48.30
90	1,2,4-Trichlorobenzene	180	12.152	12.152	(1.162)	97036	50.0000	50.05
91	Hexachlorobutadiene	225	12.287	12.287	(1.175)	46780	50.0000	50.45
92	Naphthalene	128	12.367	12.367	(1.183)	209853	50.0000	47.87
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	76087	50.0000	47.68
135	1,4-Dioxane	88	6.448	6.448	(1.257)	10767	1000.00	1037.67(AM)
146	Methyl acetate	43	2.991	2.991	(0.583)	53208	50.0000	51.41
138	Freon TF	101	2.593	2.593	(0.505)	66163	50.0000	50.57
139	Diethyl ether	59	2.377	2.377	(0.463)	46950	50.0000	50.17
140	1,3-Butadiene	54	1.564	1.564	(0.305)	40631	50.0000	48.93
141	Cyclohexane	56	5.110	5.110	(0.996)	113099	50.0000	49.57
147	Methylcyclohexane	83	6.252	6.252	(1.068)	100708	50.0000	47.15
132	n-Butanol	56	6.252	6.252	(1.219)	40162	1000.00	982.74(T)
131	Methyl Acrylate	55	4.689	4.689	(0.914)	70420	50.0000	50.00
133	Ethyl Acrylate	55	6.223	6.223	(1.213)	179702	50.0000	49.76
136	n-Hexane	57	3.673	3.673	(0.716)	85930	50.0000	52.37
142	Tetrahydrofuran	42	4.856	4.856	(0.947)	22991	100.000	96.01
148	Tert-butyl alcohol	59	3.233	3.233	(0.630)	79724	1000.00	841.71
149	Isopropyl alcohol	45	2.811	2.811	(0.548)	67928	1000.00	1048.99
151	4-Methyl-2-pentanol	45	7.474	7.474	(0.883)	510749	1000.00	986.82
166	1,2,3-Trimethylbenzene	105	10.518	10.518	(1.006)	238794	50.0000	45.36
167	Ethanol	45	2.307	2.307	(0.450)	10513	1000.00	997.08
172	tert-Butyl formate	59	3.233	3.233	(0.630)	79724	100.000	100.39
173	3,3-Dimethyl-1-butanol	57	8.039	8.039	(0.949)	129798	1000.00	1004.91
174	tert-Amyl methyl ether	73	5.580	5.580	(1.088)	189636	50.0000	48.38
175	tert-Butyl ethyl ether	59	4.377	4.377	(0.853)	208325	50.0000	47.60
157	2-Methylnaphthalene	142	13.341	13.341	(1.276)	84396	50.0000	52.89
156	Diisopropyl ether	45	3.946	3.946	(0.769)	246963	50.0000	48.45
171	1-Methylnaphthalene	142	13.522	13.522	(1.293)	68471	50.0000	48.53
130	Ethyl Acetate	43	3.946	3.946	(0.769)	443002	50.0000	49.55
176	tert-Amyl alcohol	59	5.509	5.509	(1.074)	79111	1000.00	1043.83(A)
160	Epichlorohydrin	57	6.911	6.911	(1.181)	18432	200.000	197.76
161	Butyl acrylate	55	8.998	8.998	(1.063)	163025	50.0000	48.64
182	Isobutylene	56	1.946	1.946	(0.380)	10572	50.0000	49.68(AM)
183	Isopropyl Acetate	43	5.573	5.573	(0.952)	215753	50.0000	50.01(A)
184	n-Amyl acetate	43	9.194	9.194	(1.086)	158246	50.0000	48.84(A)
185	Acetaldehyde	44	1.628	1.628	(0.317)	41280	200.000	199.41(AM)
186	n-Butyl acetate	43	7.969	7.969	(0.941)	122473	50.0000	52.38(AM)
187	2-Etyhlhexyl Acrylate	55	12.319	12.319	(1.178)	65136	50.0000	50.22(AM)
188	Tetrahydrothiophene	60	7.959	7.959	(0.940)	78695	50.0000	50.46(AM)
189	sec-Butyl Ether	57	7.406	7.406	(0.875)	70483	50.0000	53.74(AM)
190	Isoprene	39	2.400	2.400	(0.468)	18184	50.0000	46.13(AM)
191	2-Chloropropene	41	2.149	2.149	(0.419)	106233	50.0000	48.11(A)

QC Flag Legend

T - Target compound detected outside RT window.
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\nahstws005\Target\chem\voa7.i\P240615.b\X061508.D
Date : 15-JUN-2024 16:18
Client ID: VSTD050
Sample Info: VSTD050;VSTD050;1;7
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7.i
Operator: AP
Column diameter: 0.18

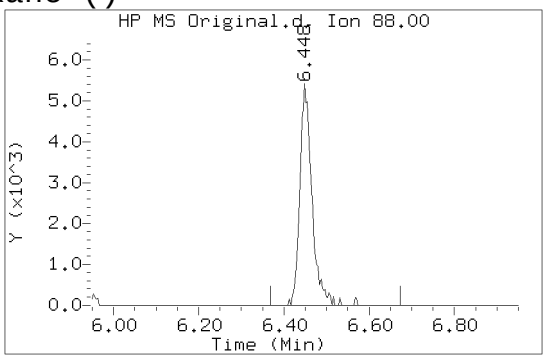
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061508.D
Inj Date : 15-JUN-2024 16:18
InstruID : voa7.i
LabSampID : VSTD050

1,4-Dioxane ()

Reason Code:

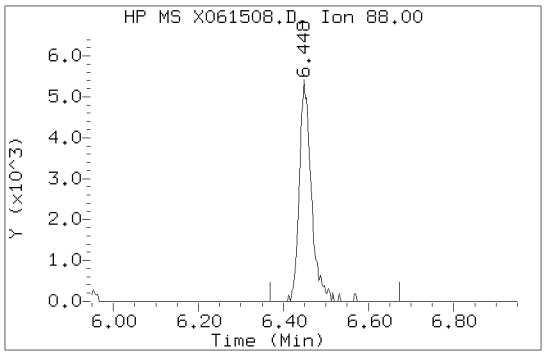
BEFORE

MASS
88
AREA
10767
HEIGHT
5420
12-Jul-2024
11:38
s
zaid



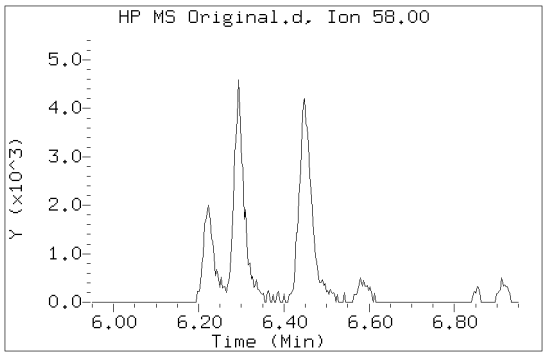
AFTER

MASS
88
AREA
10767
HEIGHT
5420
12-Jul-2024
11:38
s
zaid



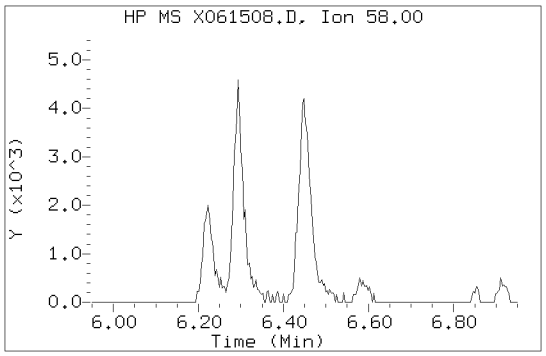
BEFORE

MASS
58
AREA
487
HEIGHT
379
12-Jul-2024
11:38
s
zaid



AFTER

MASS
58
AREA
487
HEIGHT
379
12-Jul-2024
11:38
s
zaid

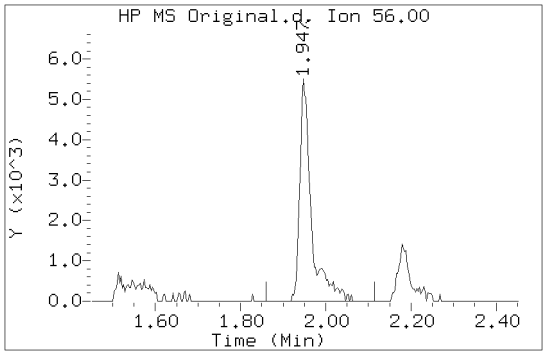


Isobutylene (115-11-7)

Reason Code:

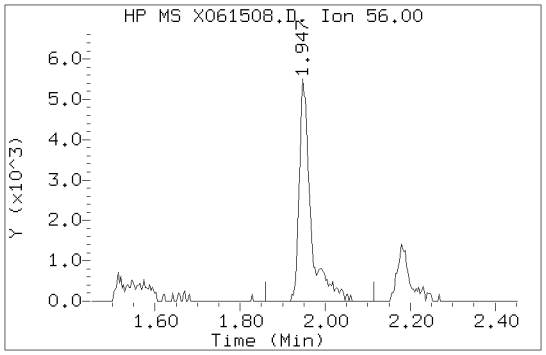
BEFORE

MASS
56
AREA
10572
HEIGHT
5505
12-Jul-2024
11:38
s
zaid



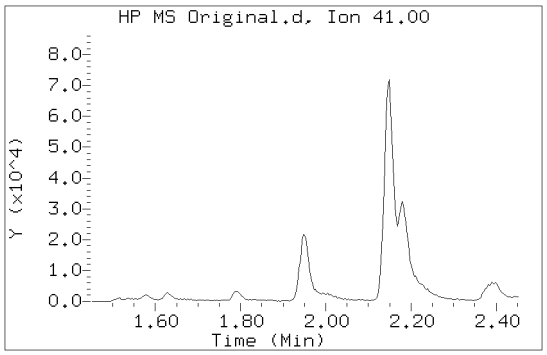
AFTER

MASS
56
AREA
10572
HEIGHT
5505
12-Jul-2024
11:38
s
zaid



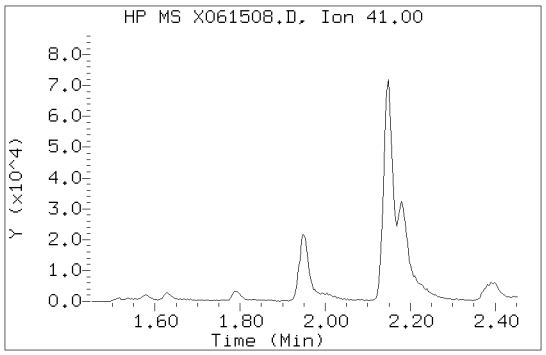
BEFORE

MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



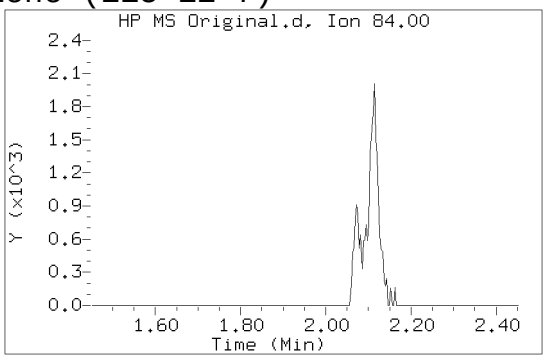
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061508.D
Inj Date : 15-JUN-2024 16:18
InstruID : voa7.i
LabSampID : VSTD050

Isobutylene (115-11-7)

Reason Code:

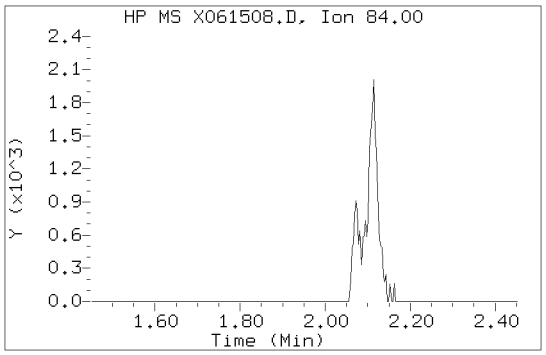
BEFORE

MASS
84
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
84
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

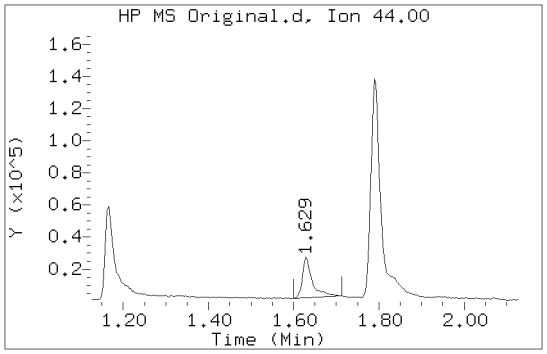


Acetaldehyde (75-07-0)

Reason Code:

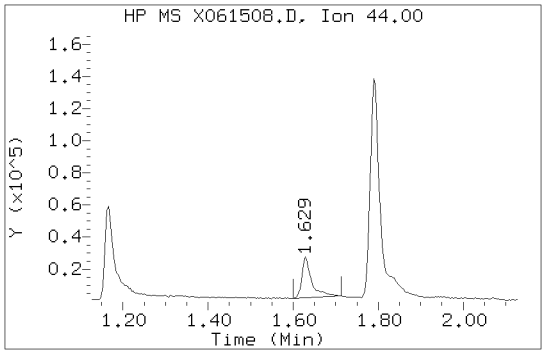
BEFORE

MASS
44
AREA
41280
HEIGHT
25427
12-Jul-2024
11:38
s
zaid



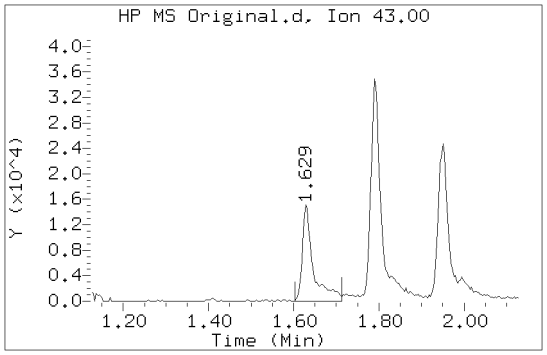
AFTER

MASS
44
AREA
41280
HEIGHT
25427
12-Jul-2024
11:38
s
zaid



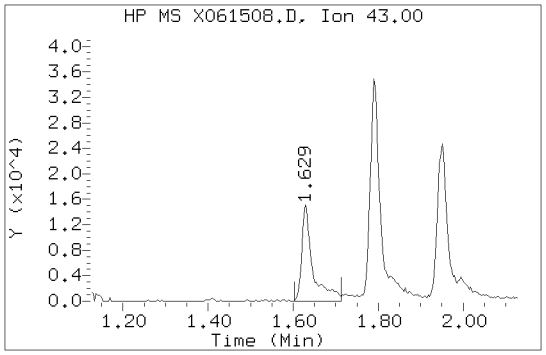
BEFORE

MASS
43
AREA
27556
HEIGHT
15177
12-Jul-2024
11:38
s
zaid



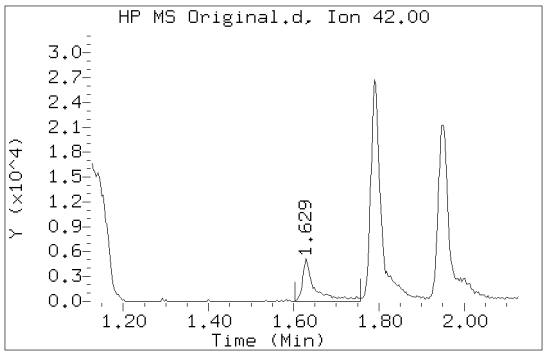
AFTER

MASS
43
AREA
27556
HEIGHT
15177
12-Jul-2024
11:38
s
zaid



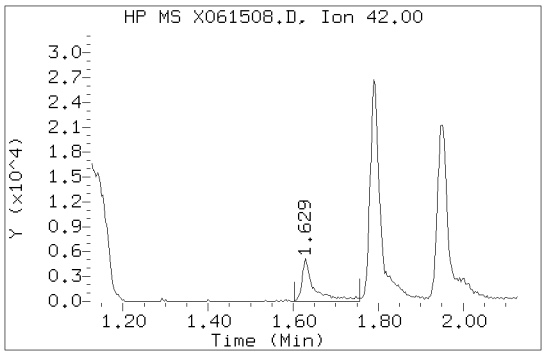
BEFORE

MASS
42
AREA
10489
HEIGHT
5150
12-Jul-2024
11:38
s
zaid



AFTER

MASS
42
AREA
10489
HEIGHT
5150
12-Jul-2024
11:38
s
zaid



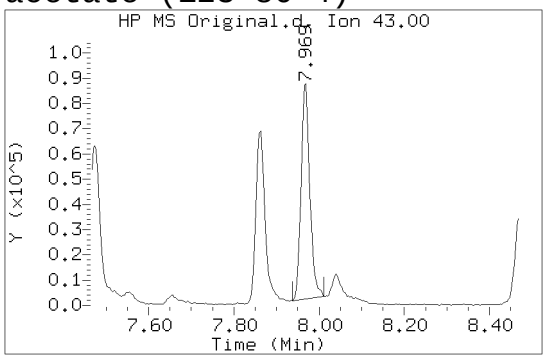
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061508.D
Inj Date : 15-JUN-2024 16:18
InstruID : voa7.i
LabSampID : VSTD050

n-Butyl acetate (123-86-4)

Reason Code:

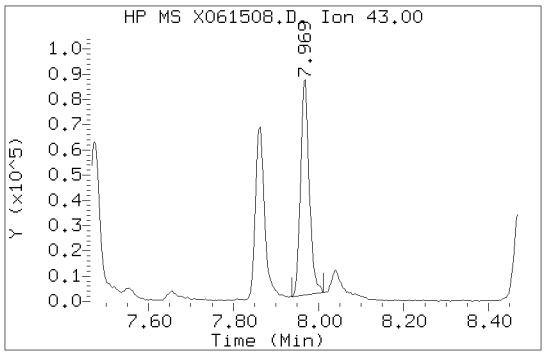
BEFORE

MASS
43
AREA
122473
HEIGHT
85288
12-Jul-2024
11:38
s
zaid



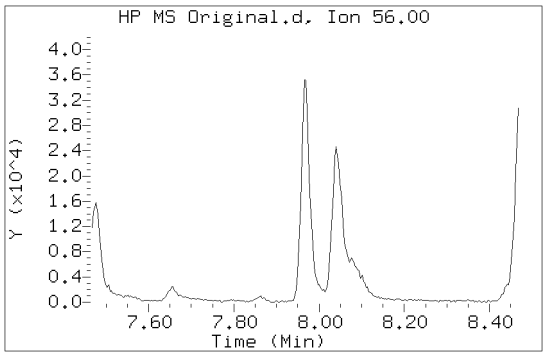
AFTER

MASS
43
AREA
122473
HEIGHT
85288
12-Jul-2024
11:38
s
zaid



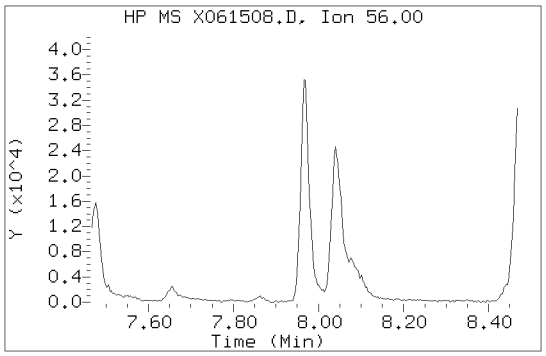
BEFORE

MASS
56
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



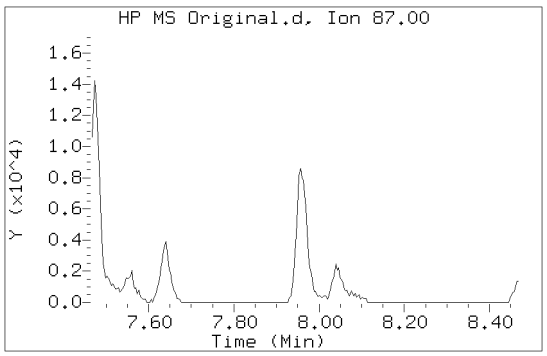
AFTER

MASS
56
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



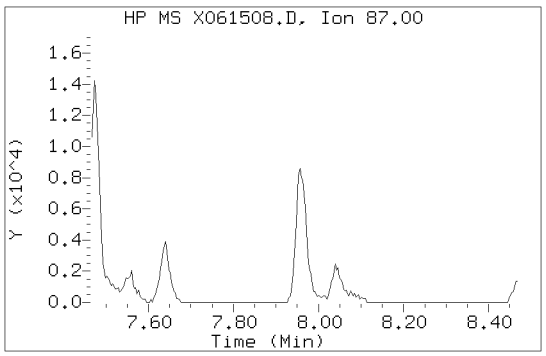
BEFORE

MASS
87
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
87
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

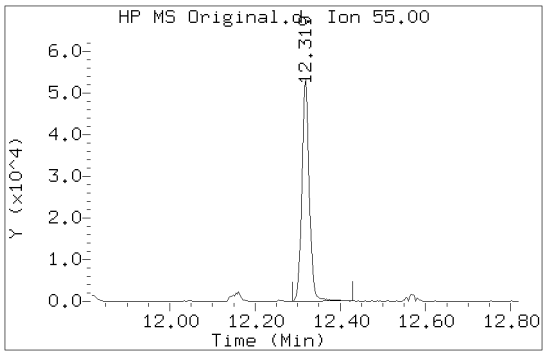


2-Etyhlhexyl Acrylate (103-11-7)

Reason Code:

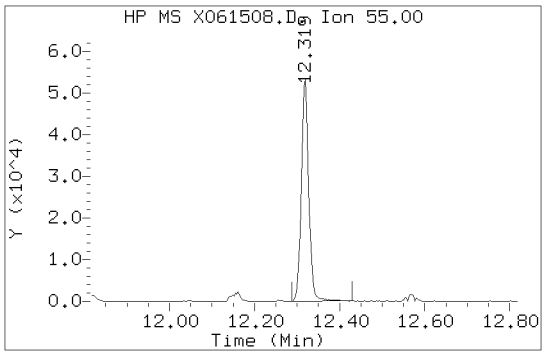
BEFORE

MASS
55
AREA
65136
HEIGHT
53148
12-Jul-2024
11:38
s
zaid



AFTER

MASS
55
AREA
65136
HEIGHT
53148
12-Jul-2024
11:38
s
zaid

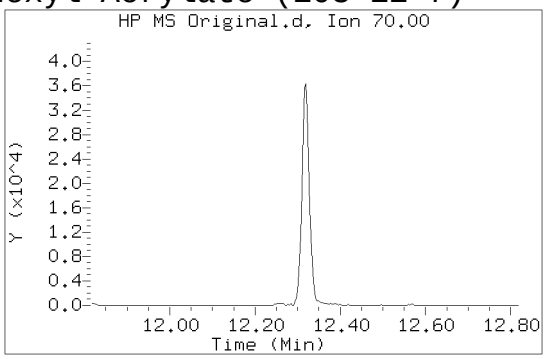


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061508.D
Inj Date : 15-JUN-2024 16:18
InstruID : voa7.i
LabSampID : VSTD050

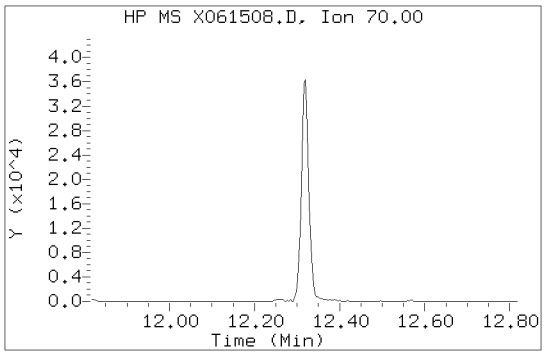
2-Etyhlhexyl Acrylate (103-11-7)

Reason Code:

BEFORE
MASS
70
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



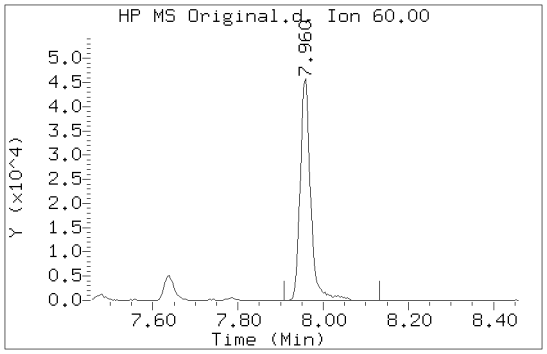
AFTER
MASS
70
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



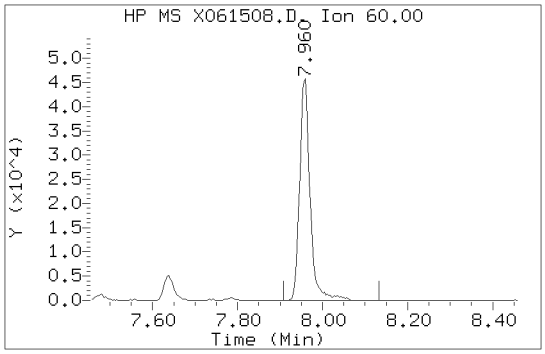
Tetrahydrothiophene (110-01-0)

Reason Code:

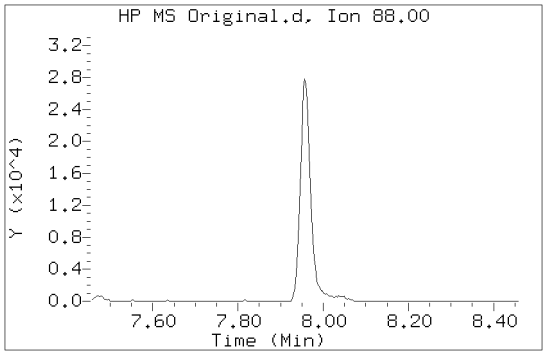
BEFORE
MASS
60
AREA
78695
HEIGHT
45784
12-Jul-2024
11:38
s
zaid



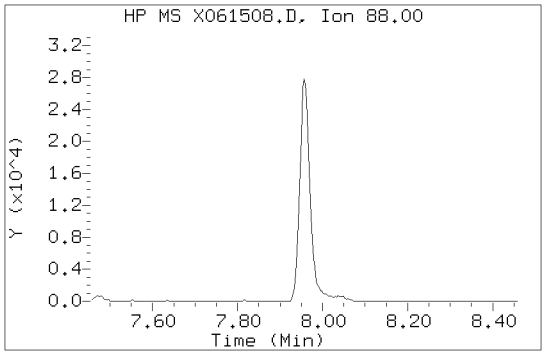
AFTER
MASS
60
AREA
78695
HEIGHT
45784
12-Jul-2024
11:38
s
zaid



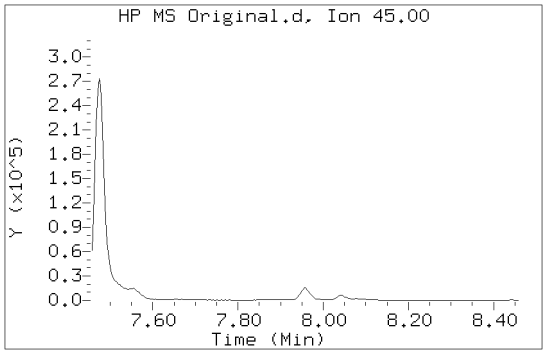
BEFORE
MASS
88
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



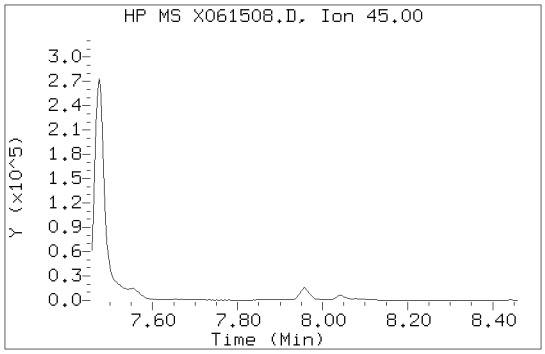
AFTER
MASS
88
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
45
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER
MASS
45
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



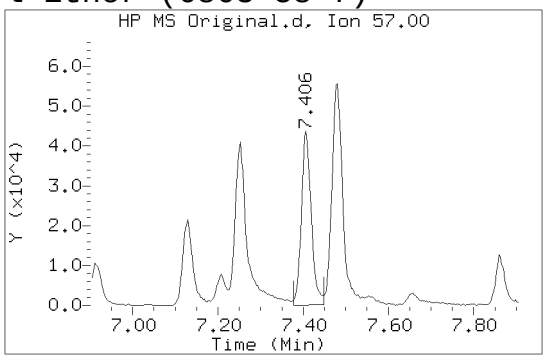
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061508.D
Inj Date : 15-JUN-2024 16:18
InstruID : voa7.i
LabSampID : VSTD050

sec-Butyl Ether (6863-58-7)

Reason Code:

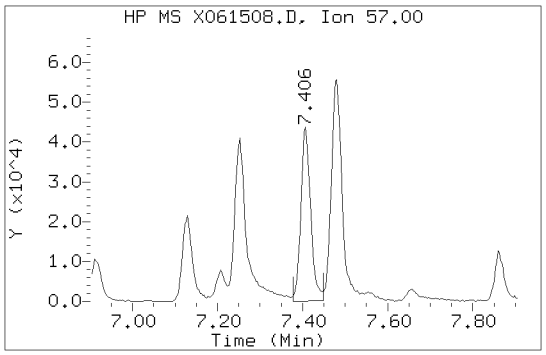
BEFORE

MASS
57
AREA
70483
HEIGHT
43632
12-Jul-2024
11:38
s
zaid



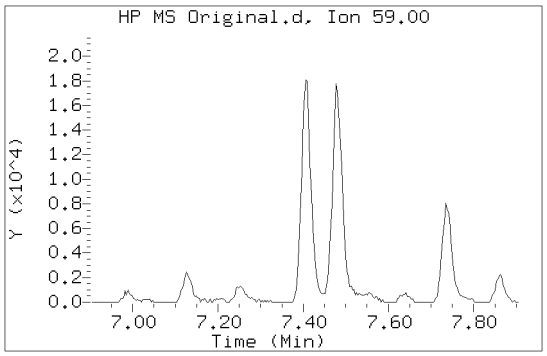
AFTER

MASS
57
AREA
70483
HEIGHT
43632
12-Jul-2024
11:38
s
zaid



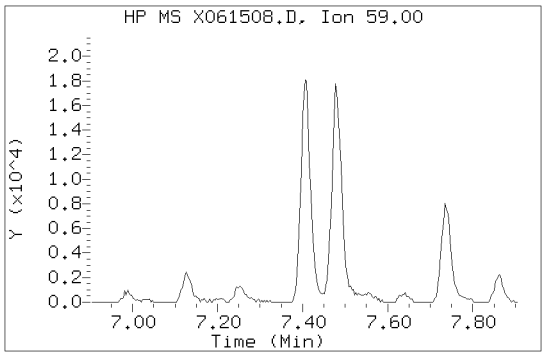
BEFORE

MASS
59
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



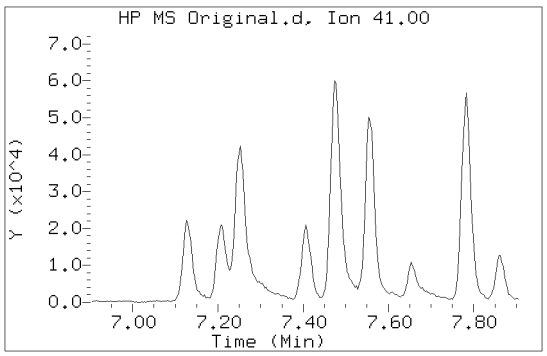
AFTER

MASS
59
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



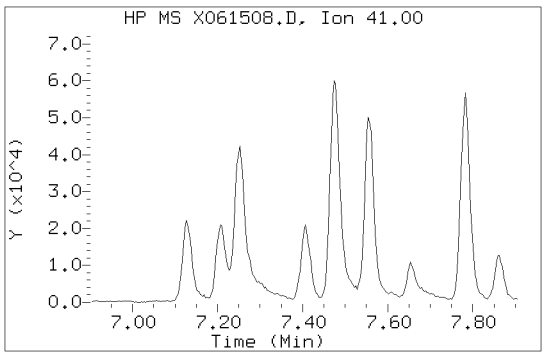
BEFORE

MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

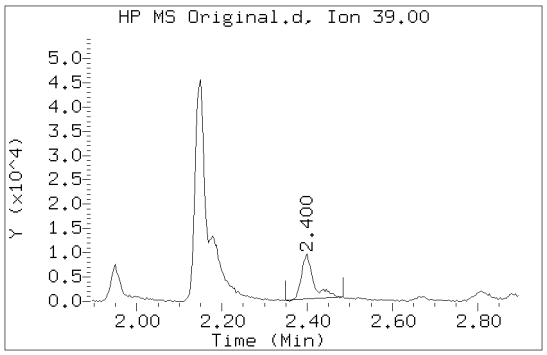


Isoprene (78-79-5)

Reason Code:

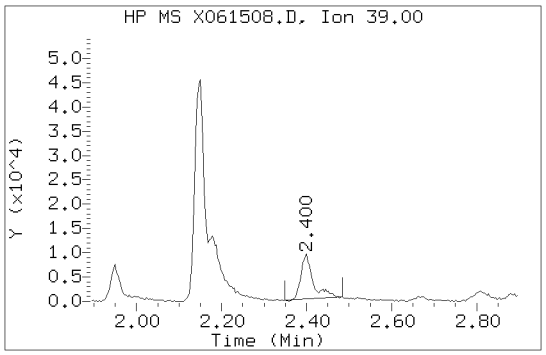
BEFORE

MASS
39
AREA
18184
HEIGHT
9252
12-Jul-2024
11:38
s
zaid



AFTER

MASS
39
AREA
18184
HEIGHT
9252
12-Jul-2024
11:38
s
zaid



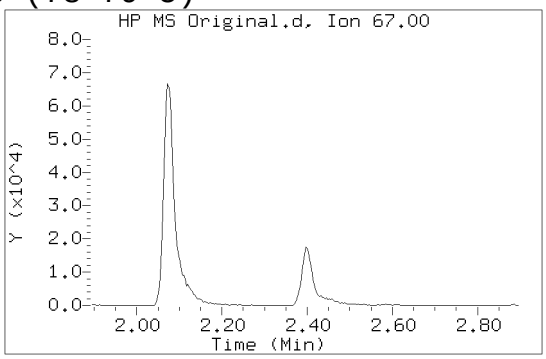
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061508.D
Inj Date : 15-JUN-2024 16:18
InstruID : voa7.i
LabSampID : VSTD050

Isoprene (78-79-5)

Reason Code:

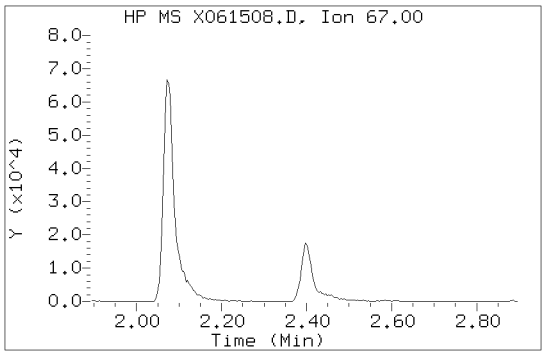
BEFORE

MASS
67
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



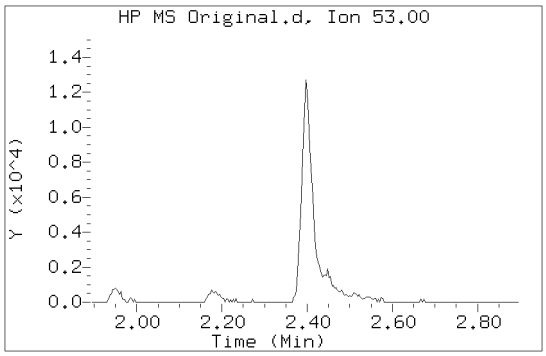
AFTER

MASS
67
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



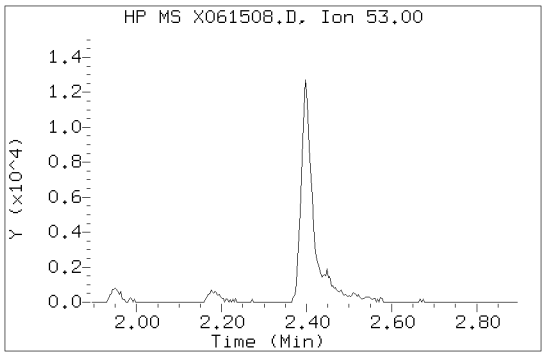
BEFORE

MASS
53
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
53
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061509.D Page 1
Report Date: 12-Jul-2024 11:46

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061509.D
Lab Smp Id: VSTD100 Client Smp ID: VSTD100
Inj Date : 15-JUN-2024 16:41
Operator : AP Inst ID: voa7.i
Smp Info : VSTD100;VSTD100;1;8
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240615.b\8260W.m
Meth Date : 12-Jul-2024 11:46 voa7.i Quant Type: ISTD
Cal Date : 15-JUN-2024 16:41 Cal File: X061509.D
Als bottle: 9 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	5.130	5.130	(1.000)	131611	50.0000	
2 Dichlorodifluoromethane	85	1.294	1.294	(0.252)	134254	100.000	96.54
159 Dichlorofluoromethane	67	2.075	2.075	(0.405)	260861	100.000	95.18
3 Chloromethane	50	1.448	1.448	(0.282)	196571	100.000	97.80
4 Propionitrile	54	4.670	4.670	(0.910)	178969	1000.00	1015.65
5 Vinyl Chloride	62	1.535	1.535	(0.299)	178644	100.000	96.31
6 Bromomethane	94	1.805	1.805	(0.352)	98215	100.000	99.36
7 Chloroethane	64	1.895	1.895	(0.369)	108971	100.000	96.98
8 Trichlorofluoromethane	101	2.114	2.114	(0.412)	232452	100.000	97.05
9 Acrolein	56	2.512	2.512	(0.490)	8475	200.000	228.55
10 Acetone	43	2.663	2.663	(0.519)	87964	200.000	197.53
11 1,1-Dichloroethene	96	2.593	2.593	(0.505)	130927	100.000	96.53
12 Isobutyl Alcohol	43	5.573	5.573	(1.086)	430883	2000.00	1987.35
13 Acetonitrile	39	2.959	2.959	(0.577)	201548	1000.00	994.85
14 Allyl Chloride	41	2.959	2.959	(0.577)	421791	100.000	100.64
15 Iodomethane	142	2.741	2.741	(0.534)	331334	200.000	188.98
16 Acrylonitrile	53	3.377	3.377	(0.658)	92283	200.000	200.41
17 Methylene Chloride	84	3.094	3.094	(0.603)	150347	100.000	98.38
18 Methyl tert-butyl ether	73	3.377	3.377	(0.658)	369312	100.000	98.47
19 Carbon Disulfide	76	2.795	2.795	(0.545)	802720	200.000	193.67

20 trans-1,2-Dichloroethene	96	3.377	3.377 (0.658)	136803	100.000	97.50
21 Vinyl Acetate	43	4.657	4.657 (0.908)	142907	200.000	195.18

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061509.D Page 2
Report Date: 12-Jul-2024 11:46

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
22	1,1-Dichloroethane	63	3.863	3.863	(0.753)	281778	100.000	91.07
23	Chloroprene	53	3.966	3.966	(0.773)	237619	100.000	96.71
24	2-Butanone	43	4.586	4.586	(0.894)	120765	200.000	197.63
25	Methacrylonitrile	41	2.149	2.149	(0.419)	251731	100.000	114.76
26	2,2-Dichloropropane	77	4.535	4.535	(0.884)	246113	100.000	93.70
27	cis-1,2-Dichloroethene	96	4.544	4.544	(0.886)	153510	100.000	98.20
28	Chloroform	83	4.901	4.901	(0.956)	275001	100.000	98.91
29	Bromochloromethane	128	4.808	4.808	(0.937)	74665	100.000	98.00
$ 30	Dibromofluoromethane	113	5.072	5.072	(0.989)	136360	100.000	98.62
31	1,1,1-Trichloroethane	97	5.072	5.072	(0.989)	240720	100.000	97.46
32	1,1-Dichloropropene	75	5.245	5.245	(0.896)	204839	100.000	94.80
33	1,2-Dichloroethane	62	5.490	5.490	(0.938)	232210	100.000	97.82
34	Carbon Tetrachloride	117	5.236	5.236	(0.895)	207646	100.000	94.30
$ 35	1,2-Dichloroethane-d4	65	5.416	5.416	(1.056)	181002	100.000	98.58
* 36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	220034	50.0000	
37	Benzene	78	5.457	5.457	(0.932)	566674	100.000	97.04
38	Trichloroethene	130	6.088	6.088	(1.040)	144899	100.000	95.74
39	Bromodichloromethane	83	6.570	6.570	(1.122)	216386	100.000	88.33
40	Methyl Methacrylate	41	6.432	6.432	(1.254)	141838	100.000	102.49
41	2-Chloroethylvinyl ether	63	6.856	6.856	(1.171)	122206	200.000	197.19(A)
42	1,2-Dichloropropane	63	6.310	6.310	(1.078)	162499	100.000	96.65
43	2-Nitropropane	43	6.798	6.798	(1.325)	45563	100.000	96.21
44	Dibromomethane	93	6.419	6.419	(1.097)	93384	100.000	96.89
45	4-Methyl-2-Pentanone	43	7.126	7.126	(0.842)	294844	200.000	193.24
46	cis-1,3-Dichloropropene	75	6.978	6.978	(1.192)	231041	100.000	95.38
* 47	Chlorobenzene-d5	117	8.467	8.467	(1.000)	205716	50.0000	
$ 48	Toluene-d8	98	7.207	7.207	(0.851)	478121	100.000	97.29
49	Ethyl Methacrylate	69	8.039	8.039	(1.374)	206010	100.000	100.81
50	Toluene	91	7.265	7.265	(0.858)	584385	100.000	96.86
51	trans-1,3-Dichloropropene	75	6.978	6.978	(1.192)	231041	100.000	95.38
52	2-Hexanone	43	7.863	7.863	(0.929)	205316	200.000	200.04
53	1,1,2-Trichloroethane	83	7.641	7.641	(0.902)	111437	100.000	98.40
54	1,3-Dichloropropane	76	7.782	7.782	(0.919)	237393	100.000	97.48
55	Dibromochloromethane	129	7.975	7.975	(0.942)	155630	100.000	92.36
56	Tetrachloroethene	164	7.737	7.737	(0.914)	110367	100.000	94.75
57	1,2-Dibromoethane	107	8.075	8.075	(0.954)	116739	100.000	97.17
58	1-Chlorohexane	55	8.470	8.470	(1.447)	141700	100.000	95.23
59	Chlorobenzene	112	8.493	8.493	(1.003)	383778	100.000	97.17
60	1,1,1,2-Tetrachloroethane	131	8.563	8.563	(1.011)	135220	100.000	94.33
61	Ethylbenzene	106	8.583	8.583	(1.014)	195525	100.000	95.61
62	m,p-Xylenes	106	8.686	8.686	(1.026)	496095	200.000	193.85
63	o-Xylene	106	9.023	9.023	(1.066)	238580	100.000	96.75
64	Styrene	104	9.039	9.039	(1.068)	421929	100.000	96.69
66	Bromoform	173	9.207	9.207	(1.087)	98086	100.000	92.32
67	Isopropylbenzene	105	9.338	9.338	(1.103)	614244	100.000	95.68
68	1,1,2,2-Tetrachloroethane	83	9.608	9.608	(0.919)	173120	100.000	95.19
$ 69	4-Bromofluorobenzene	95	9.477	9.477	(1.119)	190458	100.000	97.78
* 70	1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	109611	50.0000	
71	1,2,3-Trichloropropane	75	9.650	9.650	(0.923)	194918	100.000	94.26
72	trans-1,4-Dichloro-2-butene	53	9.660	9.660	(1.141)	42273	100.000	94.15
73	n-Propylbenzene	91	9.692	9.692	(0.927)	759621	100.000	92.84
74	Bromobenzene	156	9.605	9.605	(0.919)	165119	100.000	92.96

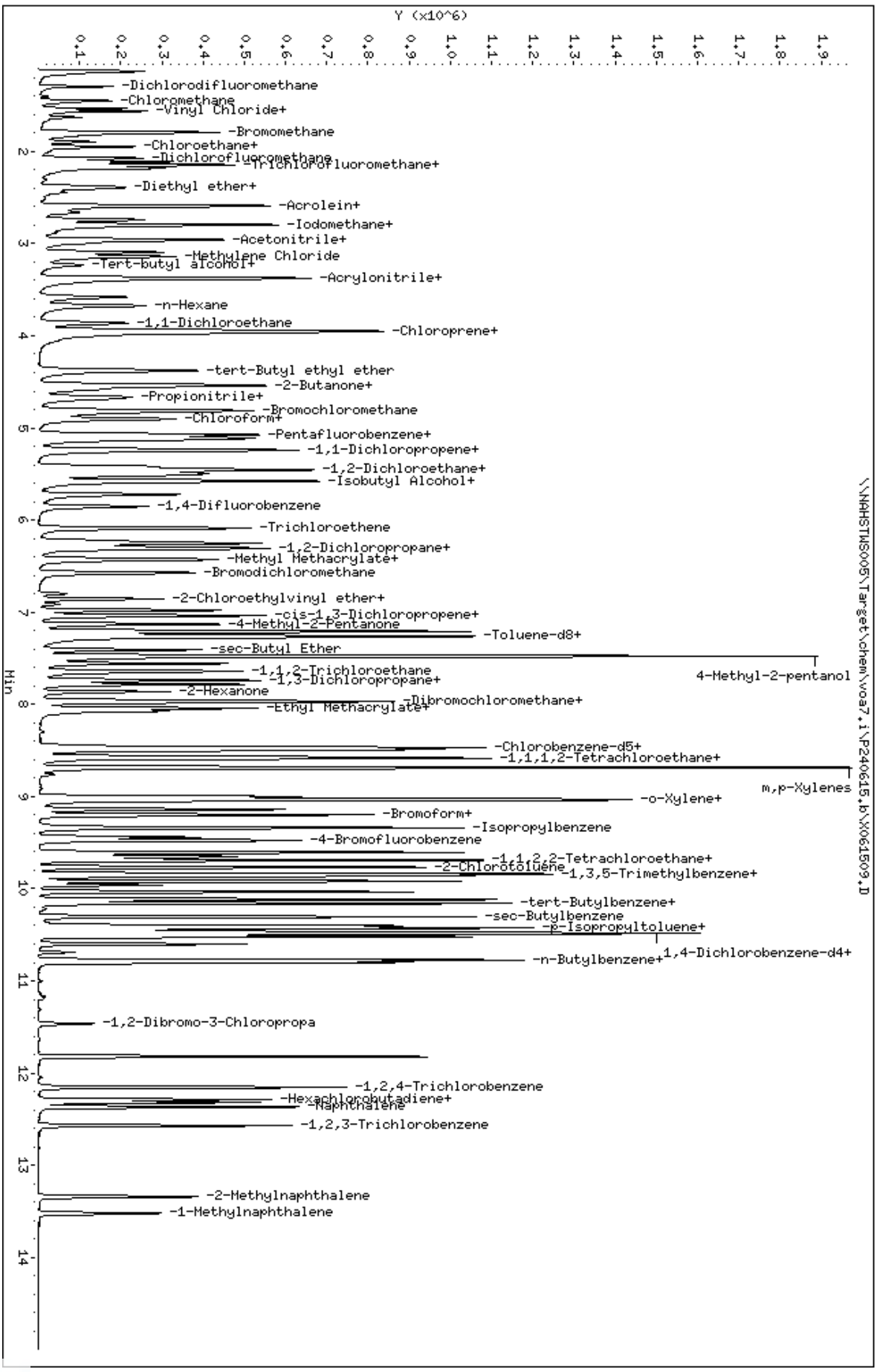
75	1,3,5-Trimethylbenzene	105	9.840	9.840 (0.941)	543342	100.000	92.11
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	465237	100.000	94.08

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061509.D Page 3
Report Date: 12-Jul-2024 11:46

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
77	4-Chlorotoluene	91	9.859	9.859	(0.943)	546420	100.000	93.18
78	tert-Butylbenzene	119	10.116	10.116	(0.967)	452739	100.000	94.12
79	1,2,4-Trimethylbenzene	105	10.158	10.158	(0.971)	540224	100.000	93.02
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	620159	100.000	92.66
82	p-Isopropyltoluene	119	10.428	10.428	(0.997)	560605	100.000	92.98
83	1,3-Dichlorobenzene	146	10.403	10.403	(0.995)	306521	100.000	93.62
84	1,4-Dichlorobenzene	146	10.480	10.480	(1.002)	313580	100.000	94.23
87	n-Butylbenzene	91	10.776	10.776	(1.030)	528102	100.000	93.78
88	1,2-Dichlorobenzene	146	10.798	10.798	(1.033)	298497	100.000	94.98
89	1,2-Dibromo-3-Chloropropane	75	11.464	11.464	(1.096)	30508	100.000	94.18
90	1,2,4-Trichlorobenzene	180	12.155	12.155	(1.162)	198441	100.000	94.70
91	Hexachlorobutadiene	225	12.287	12.287	(1.175)	94036	100.000	93.93
92	Naphthalene	128	12.370	12.370	(1.183)	427265	100.000	90.86
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	157123	100.000	91.80
135	1,4-Dioxane	88	6.445	6.445	(1.256)	21568	2000.00	2041.05(AM)
146	Methyl acetate	43	2.991	2.991	(0.583)	102095	100.000	97.01
138	Freon TF	101	2.589	2.589	(0.505)	128005	100.000	95.15
139	Diethyl ether	59	2.380	2.380	(0.464)	98676	100.000	102.84
140	1,3-Butadiene	54	1.564	1.564	(0.305)	81637	100.000	95.16
141	Cyclohexane	56	5.113	5.113	(0.997)	222012	100.000	95.50
147	Methylcyclohexane	83	6.252	6.252	(1.068)	215181	100.000	96.20
132	n-Butanol	56	6.248	6.248	(1.218)	87107	2000.00	2078.54(T)
131	Methyl Acrylate	55	4.689	4.689	(0.914)	144382	100.000	101.26
133	Ethyl Acrylate	55	6.223	6.223	(1.213)	370352	100.000	100.00
136	n-Hexane	57	3.676	3.676	(0.717)	156768	100.000	92.61
142	Tetrahydrofuran	42	4.859	4.859	(0.947)	45899	200.000	185.53
148	Tert-butyl alcohol	59	3.236	3.236	(0.631)	156003	2000.00	1606.17
149	Isopropyl alcohol	45	2.815	2.815	(0.549)	129745	2000.00	1980.18
151	4-Methyl-2-pentanol	45	7.477	7.477	(0.883)	1084199	2000.00	2016.33
166	1,2,3-Trimethylbenzene	105	10.518	10.518	(1.006)	490212	100.000	86.83
167	Ethanol	45	2.316	2.316	(0.452)	20203	2000.00	1996.61
172	tert-Butyl formate	59	3.236	3.236	(0.631)	156003	200.000	193.82
173	3,3-Dimethyl-1-butanol	57	8.039	8.039	(0.949)	282604	2000.00	2002.45
174	tert-Amyl methyl ether	73	5.580	5.580	(1.088)	398312	100.000	99.29
175	tert-Butyl ethyl ether	59	4.377	4.377	(0.853)	438475	100.000	97.70
157	2-Methylnaphthalene	142	13.338	13.338	(1.275)	183751	100.000	107.37
156	Diisopropyl ether	45	3.946	3.946	(0.769)	510091	100.000	97.60
171	1-Methylnaphthalene	142	13.521	13.521	(1.293)	145120	100.000	95.91
130	Ethyl Acetate	43	3.946	3.946	(0.769)	897857	100.000	97.80
176	tert-Amyl alcohol	59	5.515	5.515	(1.075)	151183	2000.00	1966.71(A)
160	Epichlorohydrin	57	6.914	6.914	(1.181)	37467	400.000	391.27
161	Butyl acrylate	55	8.998	8.998	(1.063)	352204	100.000	100.56(A)
182	Isobutylene	56	1.950	1.950	(0.380)	22250	100.000	100.76(AM)
183	Isopropyl Acetate	43	5.573	5.573	(0.952)	430883	100.000	98.11(A)
184	n-Amyl acetate	43	9.194	9.194	(1.086)	329197	100.000	96.94(A)
185	Acetaldehyde	44	1.628	1.628	(0.317)	82329	400.000	391.89(AM)
186	n-Butyl acetate	43	7.969	7.969	(0.941)	239739	100.000	99.15(AM)
187	2-Etyhlhexyl Acrylate	55	12.319	12.319	(1.178)	157065	100.000	100.85(AM)
188	Tetrahydrothiophene	60	7.959	7.959	(0.940)	161935	100.000	99.79(AM)
189	sec-Butyl Ether	57	7.406	7.406	(0.875)	137710	100.000	102.92(AM)
190	Isoprene	39	2.397	2.397	(0.467)	39454	100.000	97.20(AM)
191	2-Chloropropene	41	2.149	2.149	(0.419)	251731	100.000	111.18(A)

QC Flag Legend

T - Target compound detected outside RT window.
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061509.D
Date : 15-JUN-2024 16:41
Client ID: VSTD100
Sample Info: VSTD100;VSTD100;1;8
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7.i
Operator: AP
Column diameter: 0.18

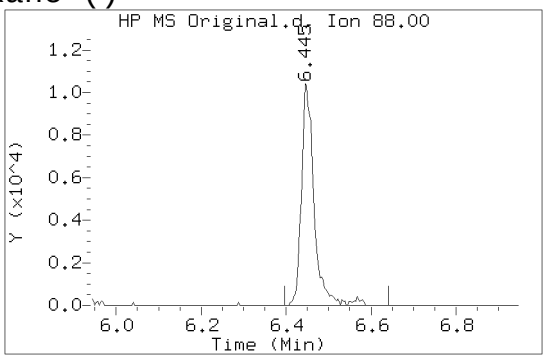
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061509.D
Inj Date : 15-JUN-2024 16:41
InstruID : voa7.i
LabSampID : VSTD100

1,4-Dioxane ()

Reason Code:

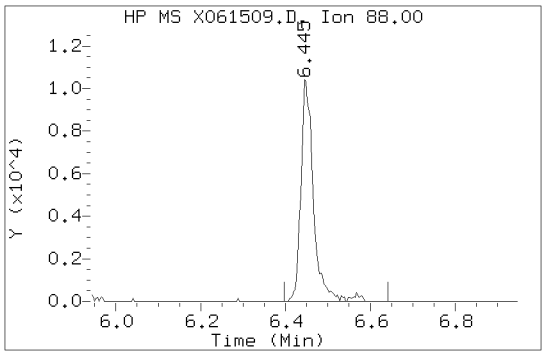
BEFORE

MASS
88
AREA
21568
HEIGHT
10419
12-Jul-2024
11:46
s
zaid



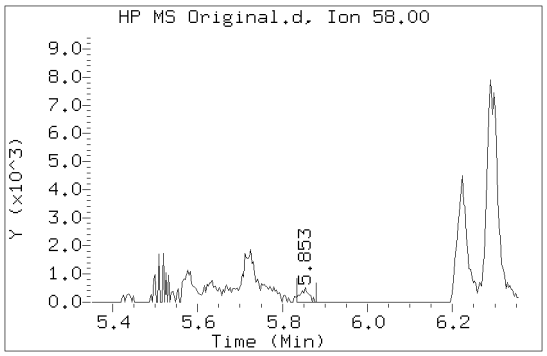
AFTER

MASS
88
AREA
21568
HEIGHT
10419
12-Jul-2024
11:46
s
zaid



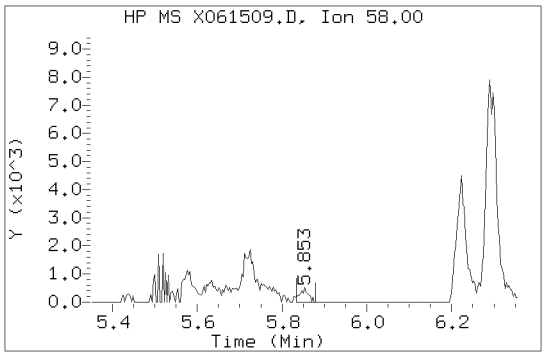
BEFORE

MASS
58
AREA
693
HEIGHT
518
12-Jul-2024
11:46
s
zaid



AFTER

MASS
58
AREA
693
HEIGHT
518
12-Jul-2024
11:46
s
zaid

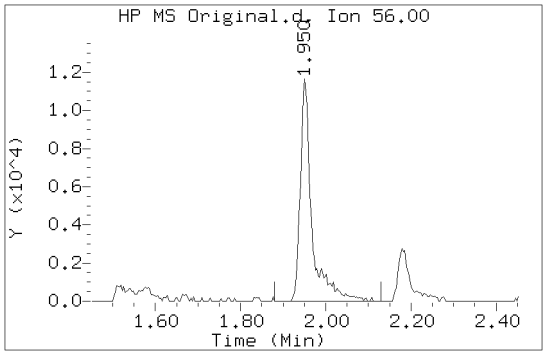


Isobutylene (115-11-7)

Reason Code:

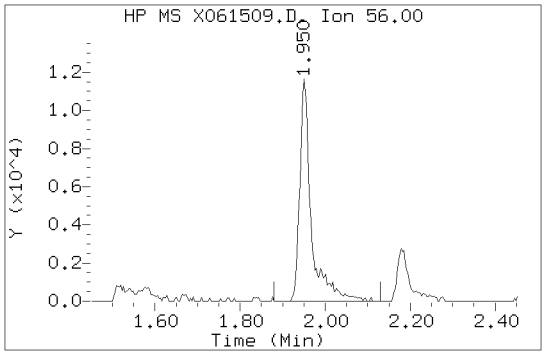
BEFORE

MASS
56
AREA
22250
HEIGHT
11650
12-Jul-2024
11:46
s
zaid



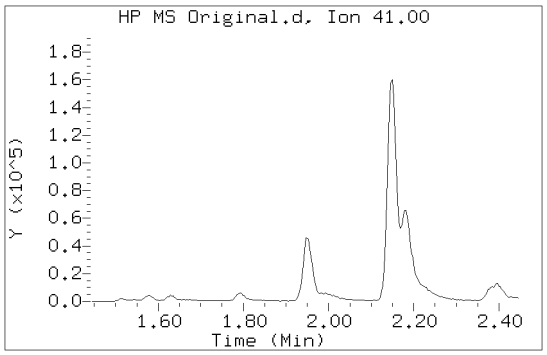
AFTER

MASS
56
AREA
22250
HEIGHT
11650
12-Jul-2024
11:46
s
zaid



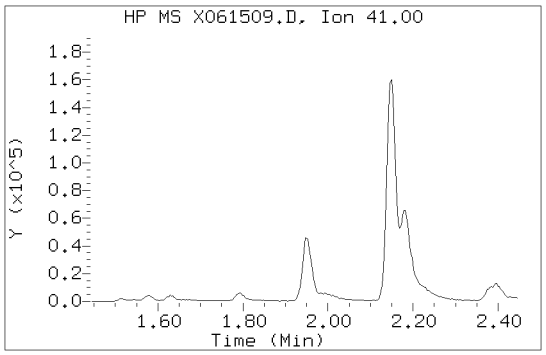
BEFORE

MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:46
s
zaid



AFTER

MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:46
s
zaid



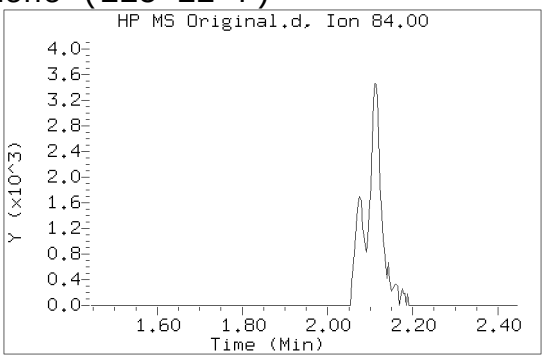
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061509.D
Inj Date : 15-JUN-2024 16:41
InstruID : voa7.i
LabSampID : VSTD100

Isobutylene (115-11-7)

Reason Code:

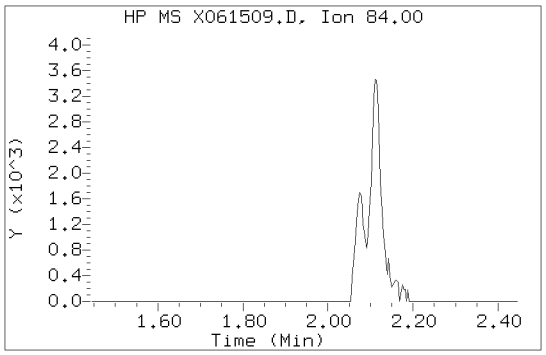
BEFORE

MASS
84
AREA
0
HEIGHT
0
12-Jul-2024
11:46
s
zaid



AFTER

MASS
84
AREA
0
HEIGHT
0
12-Jul-2024
11:46
s
zaid

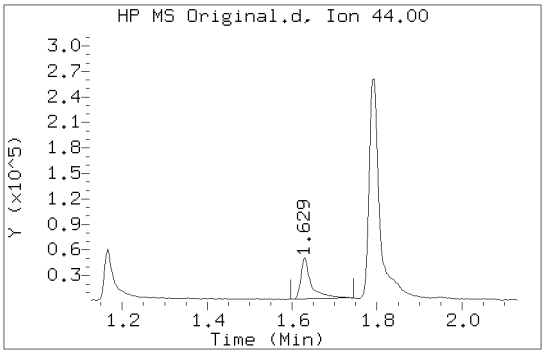


Acetaldehyde (75-07-0)

Reason Code:

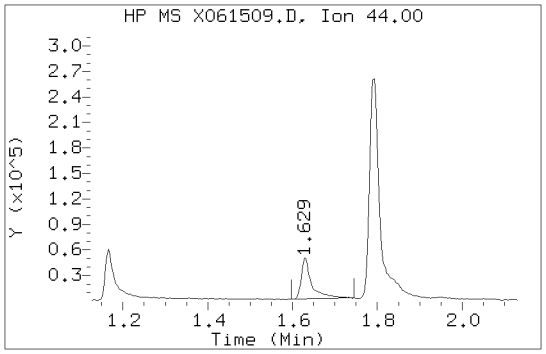
BEFORE

MASS
44
AREA
82329
HEIGHT
48198
12-Jul-2024
11:46
s
zaid



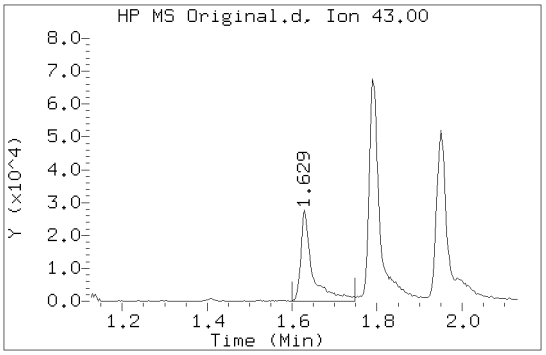
AFTER

MASS
44
AREA
82329
HEIGHT
48198
12-Jul-2024
11:46
s
zaid



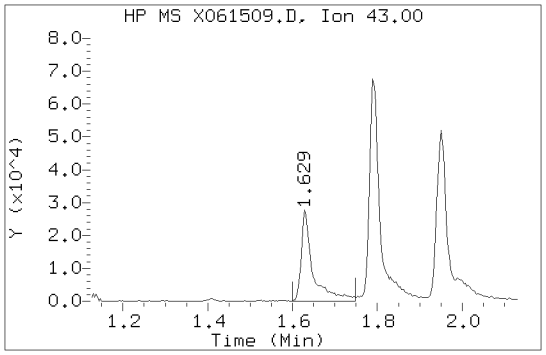
BEFORE

MASS
43
AREA
53594
HEIGHT
27720
12-Jul-2024
11:46
s
zaid



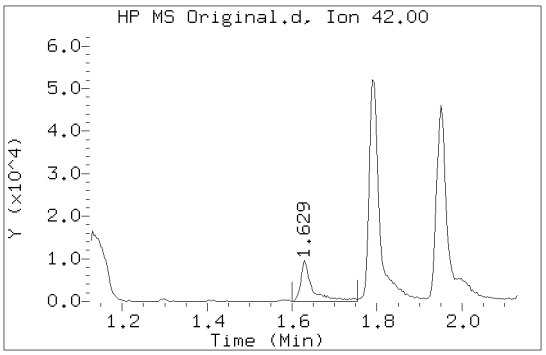
AFTER

MASS
43
AREA
53594
HEIGHT
27720
12-Jul-2024
11:46
s
zaid



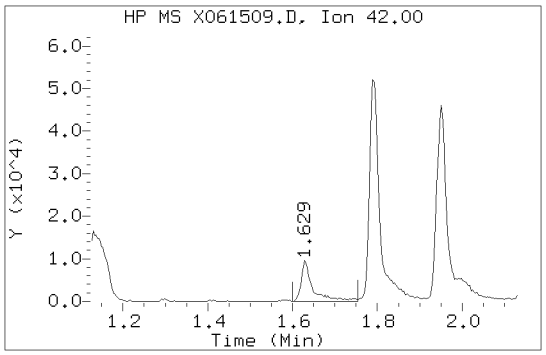
BEFORE

MASS
42
AREA
18378
HEIGHT
9598
12-Jul-2024
11:46
s
zaid



AFTER

MASS
42
AREA
18378
HEIGHT
9598
12-Jul-2024
11:46
s
zaid



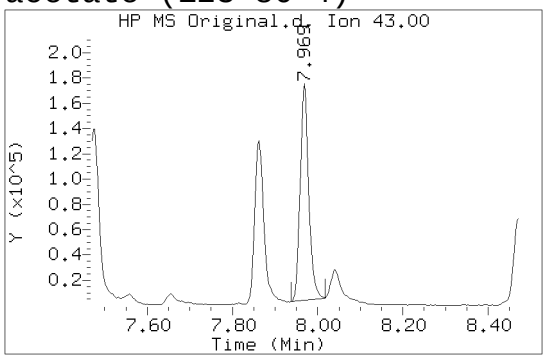
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061509.D
Inj Date : 15-JUN-2024 16:41
InstruID : voa7.i
LabSampID : VSTD100

n-Butyl acetate (123-86-4)

Reason Code:

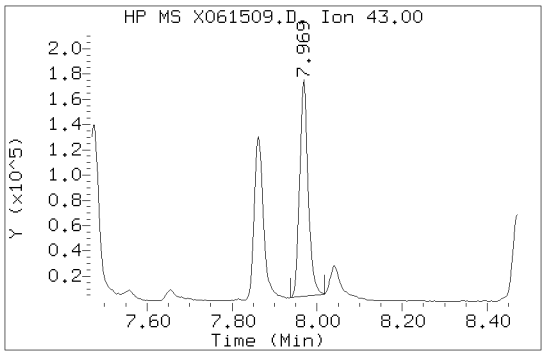
BEFORE

MASS
43
AREA
239739
HEIGHT
171263
12-Jul-2024
11:46
s
zaid



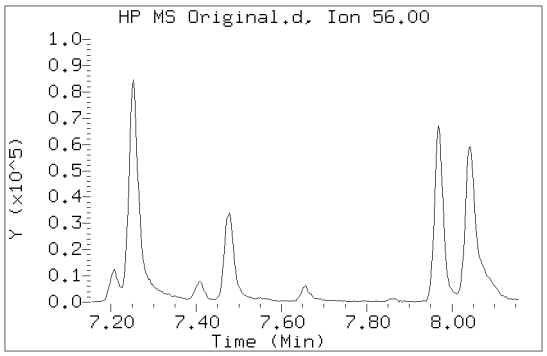
AFTER

MASS
43
AREA
239739
HEIGHT
171263
12-Jul-2024
11:46
s
zaid



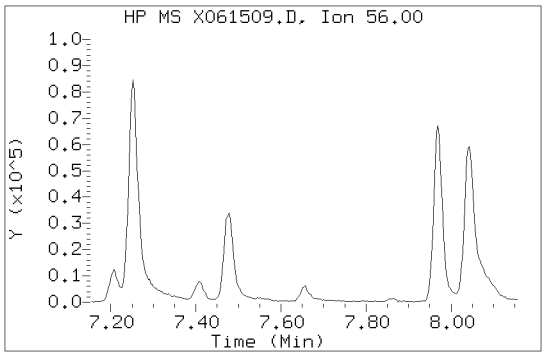
BEFORE

MASS
56
AREA
0
HEIGHT
0
12-Jul-2024
11:46
s
zaid



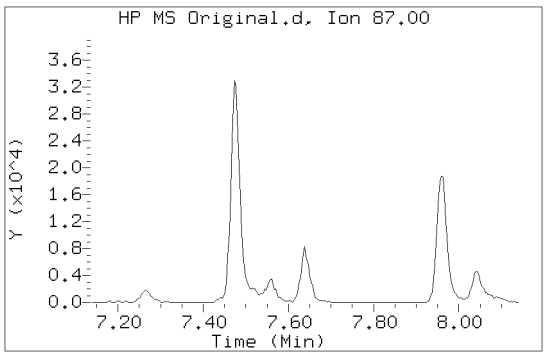
AFTER

MASS
56
AREA
0
HEIGHT
0
12-Jul-2024
11:46
s
zaid



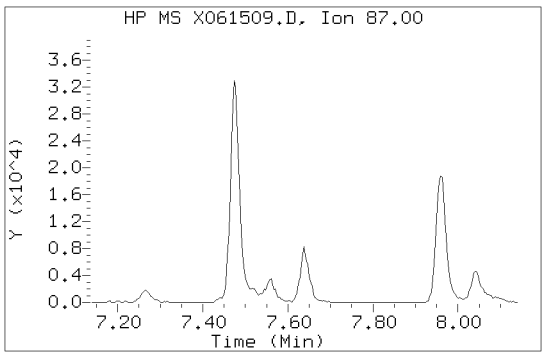
BEFORE

MASS
87
AREA
0
HEIGHT
0
12-Jul-2024
11:46
s
zaid



AFTER

MASS
87
AREA
0
HEIGHT
0
12-Jul-2024
11:46
s
zaid

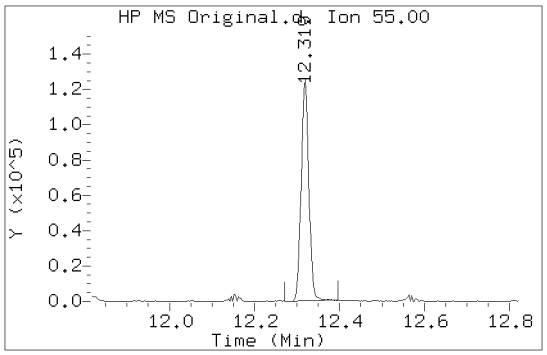


2-Etyhlhexyl Acrylate (103-11-7)

Reason Code:

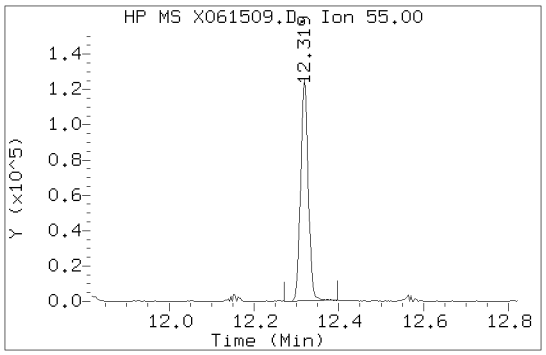
BEFORE

MASS
55
AREA
157065
HEIGHT
125280
12-Jul-2024
11:46
s
zaid



AFTER

MASS
55
AREA
157065
HEIGHT
125280
12-Jul-2024
11:46
s
zaid

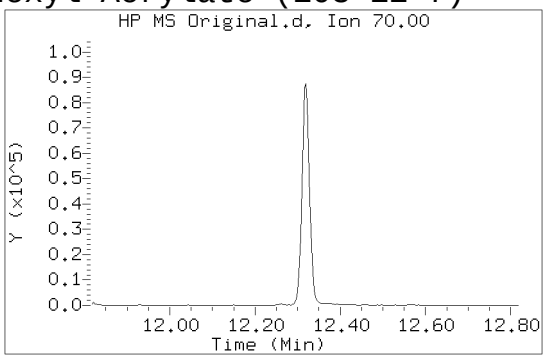


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061509.D
Inj Date : 15-JUN-2024 16:41
InstruID : voa7.i
LabSampID : VSTD100

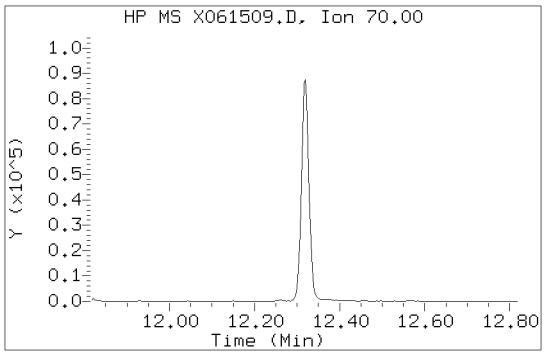
2-Etyhlhexyl Acrylate (103-11-7)

Reason Code:

BEFORE
MASS
70
AREA
0
HEIGHT
0
12-Jul-2024
11:46
s
zaid



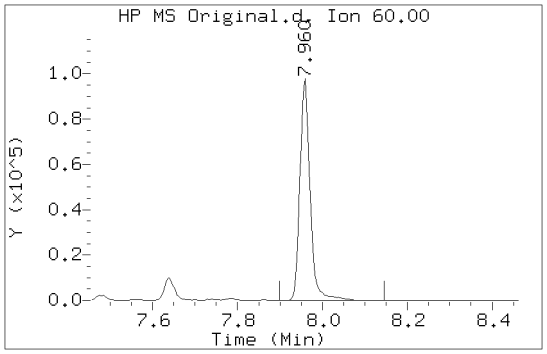
AFTER
MASS
70
AREA
0
HEIGHT
0
12-Jul-2024
11:46
s
zaid



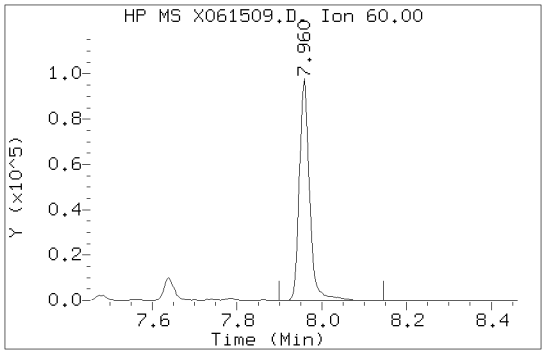
Tetrahydrothiophene (110-01-0)

Reason Code:

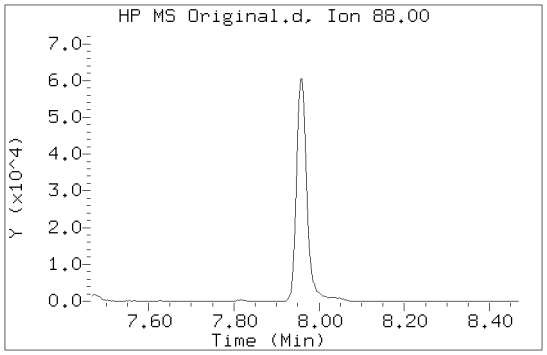
BEFORE
MASS
60
AREA
161935
HEIGHT
97824
12-Jul-2024
11:46
s
zaid



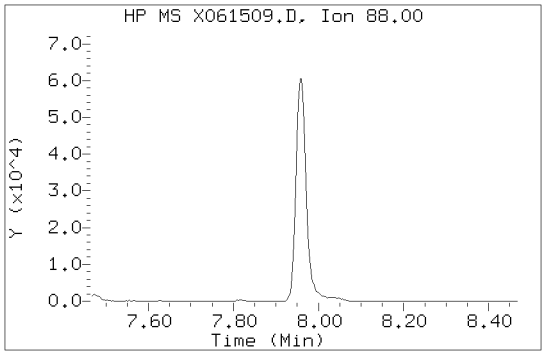
AFTER
MASS
60
AREA
161935
HEIGHT
97824
12-Jul-2024
11:46
s
zaid



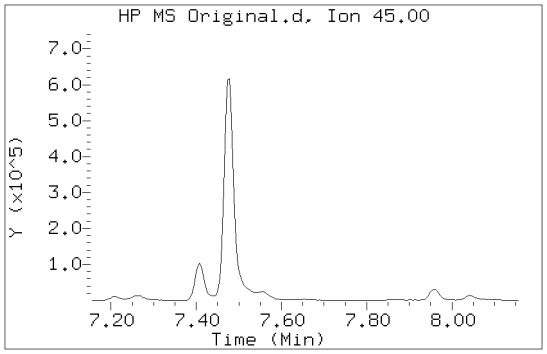
BEFORE
MASS
88
AREA
0
HEIGHT
0
12-Jul-2024
11:46
s
zaid



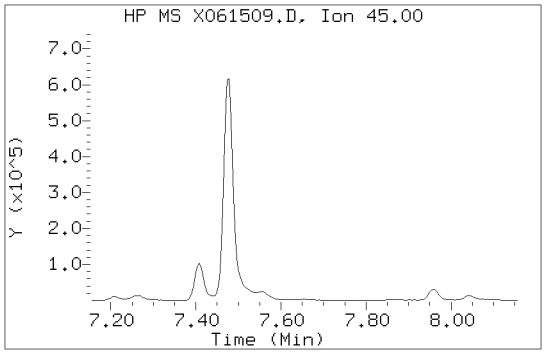
AFTER
MASS
88
AREA
0
HEIGHT
0
12-Jul-2024
11:46
s
zaid



BEFORE
MASS
45
AREA
0
HEIGHT
0
12-Jul-2024
11:46
s
zaid



AFTER
MASS
45
AREA
0
HEIGHT
0
12-Jul-2024
11:46
s
zaid

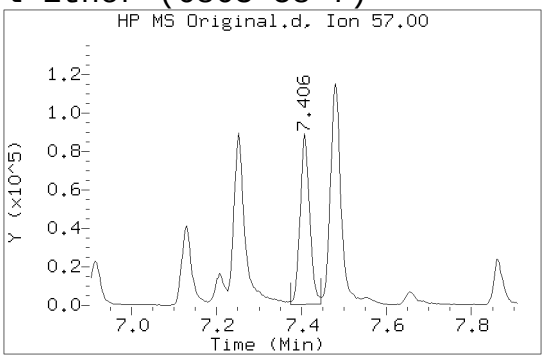


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061509.D
Inj Date : 15-JUN-2024 16:41
InstruID : voa7.i
LabSampID : VSTD100

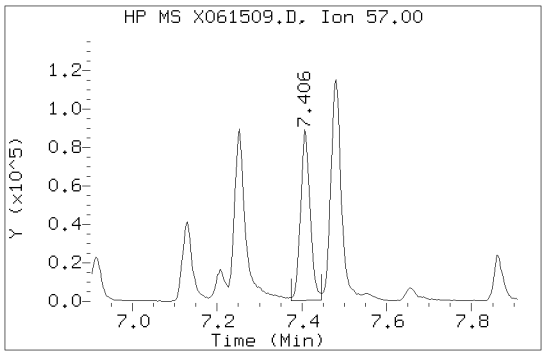
sec-Butyl Ether (6863-58-7)

Reason Code:

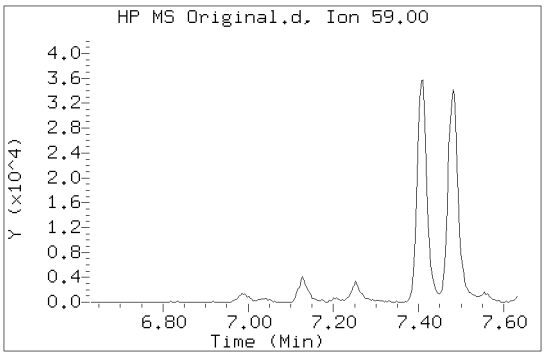
BEFORE
MASS
57
AREA
137710
HEIGHT
88516
12-Jul-2024
11:46
s
zaid



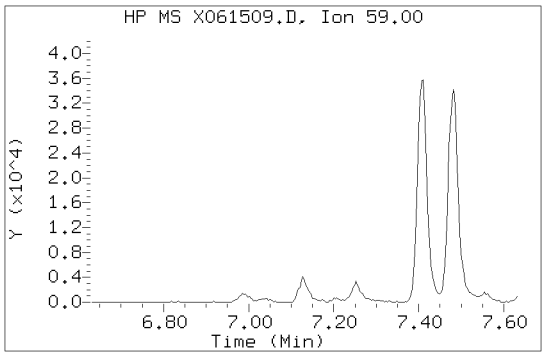
AFTER
MASS
57
AREA
137710
HEIGHT
88516
12-Jul-2024
11:46
s
zaid



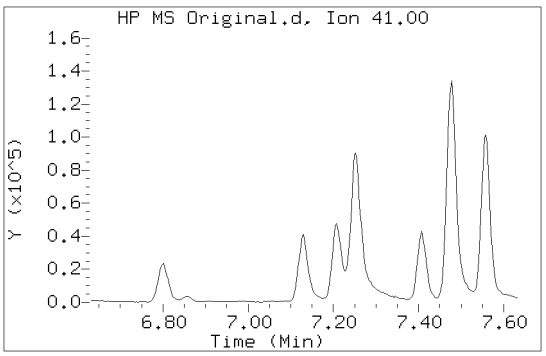
BEFORE
MASS
59
AREA
0
HEIGHT
0
12-Jul-2024
11:46
s
zaid



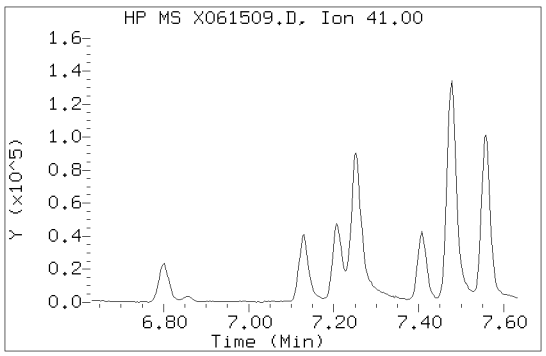
AFTER
MASS
59
AREA
0
HEIGHT
0
12-Jul-2024
11:46
s
zaid



BEFORE
MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:46
s
zaid



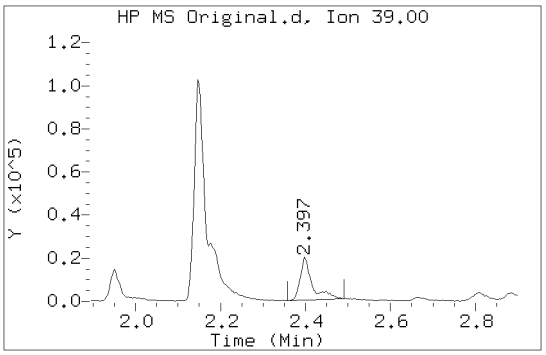
AFTER
MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:46
s
zaid



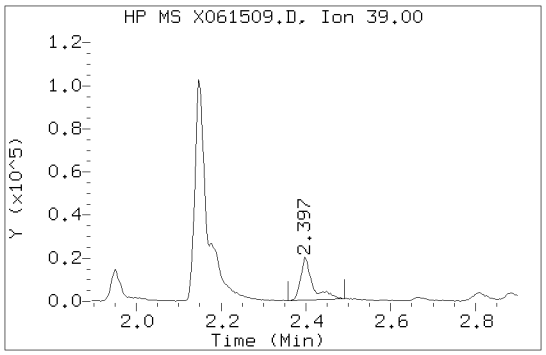
Isoprene (78-79-5)

Reason Code:

BEFORE
MASS
39
AREA
39454
HEIGHT
19933
12-Jul-2024
11:46
s
zaid



AFTER
MASS
39
AREA
39454
HEIGHT
19933
12-Jul-2024
11:46
s
zaid



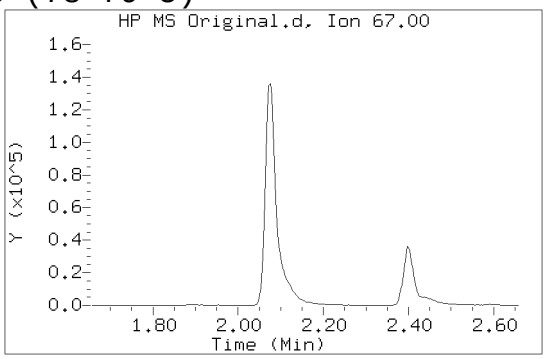
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061509.D
Inj Date : 15-JUN-2024 16:41
InstruID : voa7.i
LabSampID : VSTD100

Isoprene (78-79-5)

Reason Code:

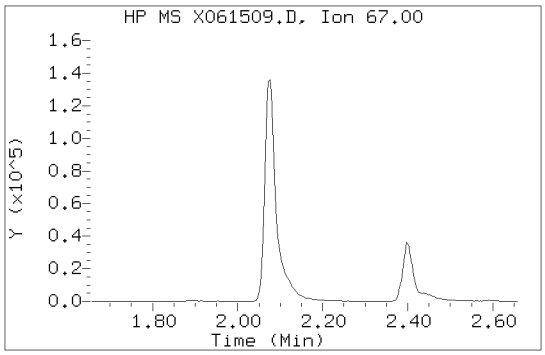
BEFORE

MASS
67
AREA
0
HEIGHT
0
12-Jul-2024
11:46
s
zaid



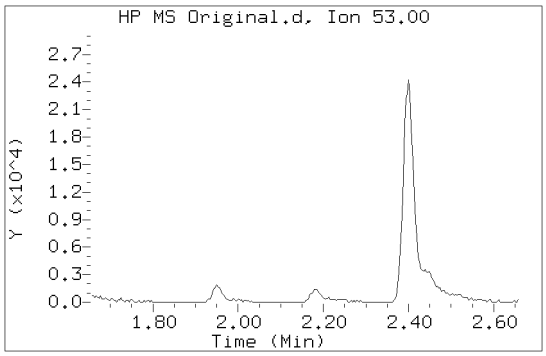
AFTER

MASS
67
AREA
0
HEIGHT
0
12-Jul-2024
11:46
s
zaid



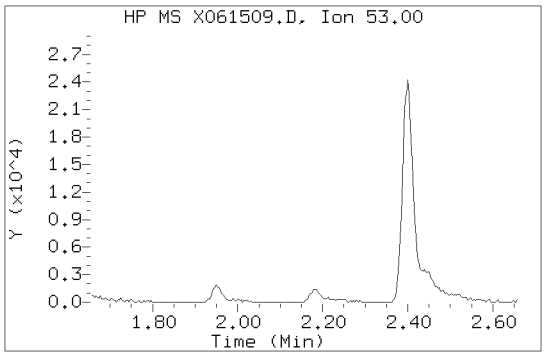
BEFORE

MASS
53
AREA
0
HEIGHT
0
12-Jul-2024
11:46
s
zaid



AFTER

MASS
53
AREA
0
HEIGHT
0
12-Jul-2024
11:46
s
zaid



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061510.D Page 1
Report Date: 12-Jul-2024 11:38

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061510.D
Lab Smp Id: VSTD200 Client Smp ID: VSTD200
Inj Date : 15-JUN-2024 17:04
Operator : AP Inst ID: voa7.i
Smp Info : VSTD200;VSTD200;1;9
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240615.b\8260W.m
Meth Date : 12-Jul-2024 11:38 voa7.i Quant Type: ISTD
Cal Date : 15-JUN-2024 16:41 Cal File: X061509.D
Als bottle: 10 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	5.130	5.130	(1.000)	137497	50.0000	
2	Dichlorodifluoromethane	85	1.294	1.294	(0.252)	292167	200.000	201.48(A)
159	Dichlorofluoromethane	67	2.072	2.072	(0.404)	535069	200.000	186.87(A)
3	Chloromethane	50	1.448	1.448	(0.282)	419418	200.000	200.76(A)
4	Propionitrile	54	4.673	4.673	(0.911)	364385	2000.00	1988.69
5	Vinyl Chloride	62	1.535	1.535	(0.299)	390540	200.000	201.69(A)
6	Bromomethane	94	1.802	1.802	(0.351)	205045	200.000	199.94
7	Chloroethane	64	1.892	1.892	(0.369)	235748	200.000	201.27(A)
8	Trichlorofluoromethane	101	2.110	2.110	(0.411)	502365	200.000	201.15(A)
9	Acrolein	56	2.519	2.519	(0.491)	13679	400.000	353.09
10	Acetone	43	2.667	2.667	(0.520)	183152	400.000	399.61
11	1,1-Dichloroethene	96	2.590	2.590	(0.505)	285852	200.000	201.57(A)
12	Isobutyl Alcohol	43	5.573	5.573	(1.086)	902069	4000.00	4001.19(A)
13	Acetonitrile	39	2.959	2.959	(0.577)	422464	2000.00	2002.40(A)
14	Allyl Chloride	41	2.959	2.959	(0.577)	869165	200.000	199.44
15	Iodomethane	142	2.741	2.741	(0.534)	752080	400.000	406.08(A)
16	Acrylonitrile	53	3.377	3.377	(0.658)	191487	400.000	398.96
17	Methylene Chloride	84	3.094	3.094	(0.603)	316697	200.000	200.21
18	Methyl tert-butyl ether	73	3.377	3.377	(0.658)	789645	200.000	201.24(A)
19	Carbon Disulfide	76	2.795	2.795	(0.545)	1741724	400.000	402.86(A)

20 trans-1,2-Dichloroethene	96	3.374	3.374 (0.658)	294156	200.000	200.95(A)
21 Vinyl Acetate	43	4.657	4.657 (0.908)	303449	400.000	400.20(A)

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061510.D Page 2
Report Date: 12-Jul-2024 11:38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	22 1,1-Dichloroethane	63	3.863	3.863	(0.753)	602316	200.000	186.33
	23 Chloroprene	53	3.962	3.962	(0.772)	517186	200.000	201.52(A)
	24 2-Butanone	43	4.589	4.589	(0.895)	252867	400.000	400.41(A)
	25 Methacrylonitrile	41	2.146	2.146	(0.418)	486972	200.000	212.50
	26 2,2-Dichloropropane	77	4.532	4.532	(0.883)	528685	200.000	192.68
	27 cis-1,2-Dichloroethene	96	4.544	4.544	(0.886)	326517	200.000	200.48(A)
	28 Chloroform	83	4.905	4.905	(0.956)	578887	200.000	200.12(A)
	29 Bromochloromethane	128	4.808	4.808	(0.937)	159282	200.000	200.54(A)
$	30 Dibromofluoromethane	113	5.075	5.075	(0.989)	284861	200.000	200.21(A)
	31 1,1,1-Trichloroethane	97	5.072	5.072	(0.989)	518715	200.000	201.03(A)
	32 1,1-Dichloropropene	75	5.245	5.245	(0.896)	449030	200.000	202.37(A)
	33 1,2-Dichloroethane	62	5.493	5.493	(0.938)	487787	200.000	200.69(A)
	34 Carbon Tetrachloride	117	5.236	5.236	(0.895)	461014	200.000	202.95(A)
$	35 1,2-Dichloroethane-d4	65	5.416	5.416	(1.056)	373277	200.000	200.21(A)
*	36 1,4-Difluorobenzene	114	5.853	5.853	(1.000)	225800	50.0000	
	37 Benzene	78	5.458	5.458	(0.932)	1202917	200.000	201.26(A)
	38 Trichloroethene	130	6.088	6.088	(1.040)	313152	200.000	201.78(A)
	39 Bromodichloromethane	83	6.570	6.570	(1.122)	463216	200.000	184.26
	40 Methyl Methacrylate	41	6.432	6.432	(1.254)	284906	200.000	198.70
	41 2-Chloroethylvinyl ether	63	6.856	6.856	(1.171)	285285	400.000	400.34(A)
	42 1,2-Dichloropropane	63	6.310	6.310	(1.078)	346536	200.000	201.31(A)
	43 2-Nitropropane	43	6.802	6.802	(1.326)	100260	200.000	202.28(A)
	44 Dibromomethane	93	6.419	6.419	(1.097)	199194	200.000	201.44(A)
	45 4-Methyl-2-Pentanone	43	7.130	7.130	(0.842)	630364	400.000	401.91(A)
	46 cis-1,3-Dichloropropene	75	6.978	6.978	(1.192)	504454	200.000	202.46(A)
*	47 Chlorobenzene-d5	117	8.467	8.467	(1.000)	212511	50.0000	
$	48 Toluene-d8	98	7.207	7.207	(0.851)	1013765	200.000	200.38(A)
	49 Ethyl Methacrylate	69	8.043	8.043	(1.374)	479491	200.000	199.88
	50 Toluene	91	7.265	7.265	(0.858)	1248377	200.000	200.98(A)
	51 trans-1,3-Dichloropropene	75	6.978	6.978	(1.192)	504454	200.000	202.46(A)
	52 2-Hexanone	43	7.863	7.863	(0.929)	418635	400.000	397.74
	53 1,1,2-Trichloroethane	83	7.638	7.638	(0.902)	232912	200.000	199.97
	54 1,3-Dichloropropane	76	7.782	7.782	(0.919)	502687	200.000	200.62(A)
	55 Dibromochloromethane	129	7.975	7.975	(0.942)	335061	200.000	192.49
	56 Tetrachloroethene	164	7.740	7.740	(0.914)	242940	200.000	202.00(A)
	57 1,2-Dibromoethane	107	8.075	8.075	(0.954)	248060	200.000	200.85(A)
	58 1-Chlorohexane	55	8.470	8.470	(1.447)	303981	200.000	201.65(A)
	59 Chlorobenzene	112	8.493	8.493	(1.003)	816634	200.000	200.87(A)
	60 1,1,1,2-Tetrachloroethane	131	8.567	8.567	(1.012)	300759	200.000	202.57(A)
	61 Ethylbenzene	106	8.586	8.586	(1.014)	424071	200.000	201.33(A)
	62 m,p-Xylenes	106	8.686	8.686	(1.026)	1059701	400.000	402.03(A)
	63 o-Xylene	106	9.027	9.027	(1.066)	509699	200.000	200.89(A)
	64 Styrene	104	9.039	9.039	(1.068)	903128	200.000	201.00(A)
	66 Bromoform	173	9.207	9.207	(1.087)	217025	200.000	197.73
	67 Isopropylbenzene	105	9.342	9.342	(1.103)	1334335	200.000	201.56(A)
	68 1,1,2,2-Tetrachloroethane	83	9.612	9.612	(0.919)	364431	200.000	201.52(A)
$	69 4-Bromofluorobenzene	95	9.477	9.477	(1.119)	396379	200.000	200.31(A)
*	70 1,4-Dichlorobenzene-d4	152	10.461	10.461	(1.000)	109462	50.0000	
	71 1,2,3-Trichloropropane	75	9.650	9.650	(0.923)	415838	200.000	202.05(A)
	72 trans-1,4-Dichloro-2-butene	53	9.660	9.660	(1.141)	93967	200.000	202.39(A)
	73 n-Propylbenzene	91	9.692	9.692	(0.927)	1657867	200.000	202.88(A)
	74 Bromobenzene	156	9.605	9.605	(0.918)	359110	200.000	202.70(A)

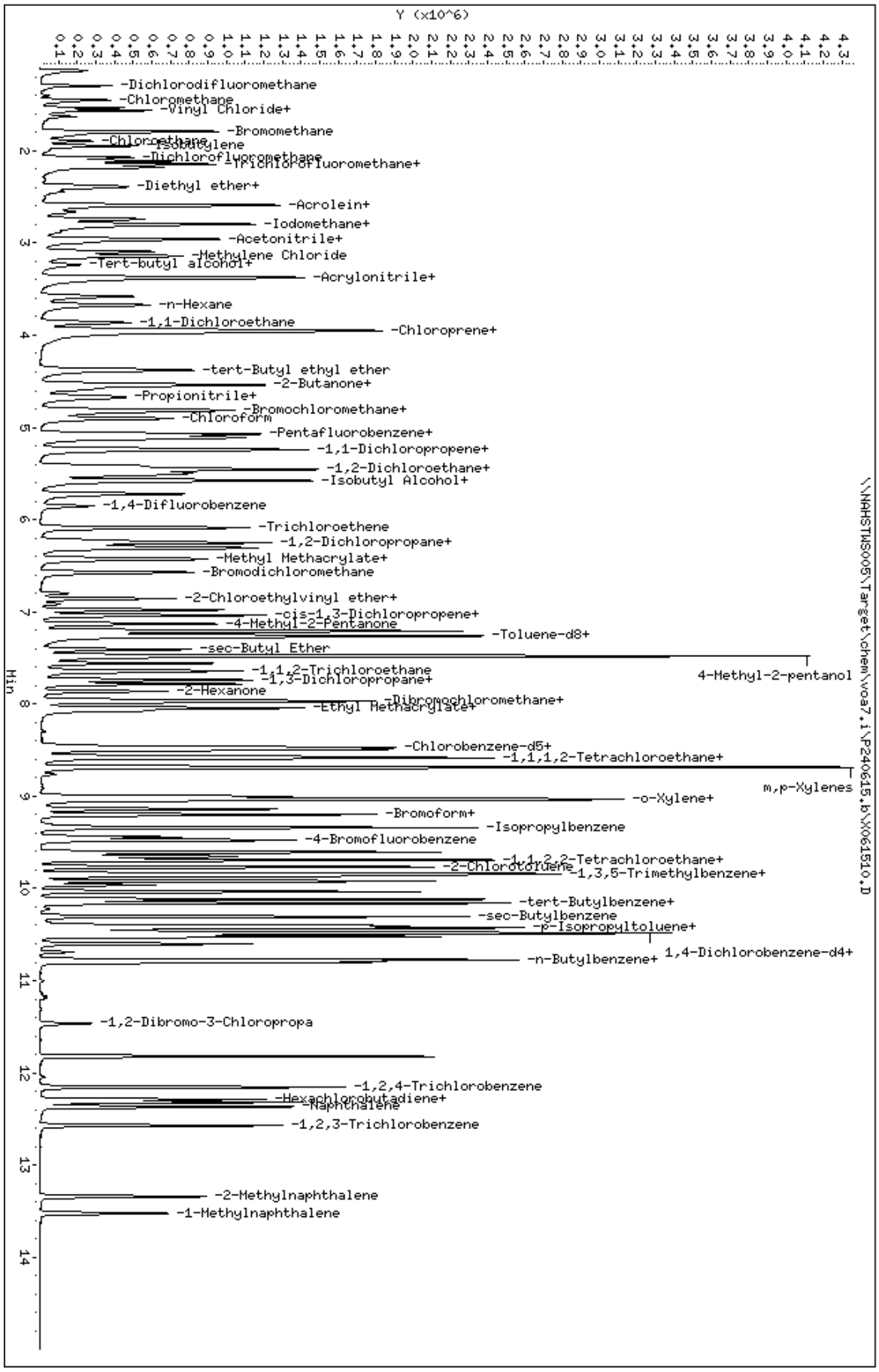
75	1,3,5-Trimethylbenzene	105	9.840	9.840 (0.941)	1199205	200.000	203.33(A)
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	995846	200.000	202.20(A)

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061510.D Page 3
Report Date: 12-Jul-2024 11:38

						AMOUNTS	
		QUANT SIG				CAL-AMT	ON-COL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
77	4-Chlorotoluene	91	9.859	9.859	(0.943)	1184483	200.000	202.59(A)
78	tert-Butylbenzene	119	10.120	10.120	(0.967)	969754	200.000	202.17(A)
79	1,2,4-Trimethylbenzene	105	10.158	10.158	(0.971)	1174459	200.000	202.68(A)
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	1357880	200.000	202.95(A)
82	p-Isopropyltoluene	119	10.428	10.428	(0.997)	1222531	200.000	202.84(A)
83	1,3-Dichlorobenzene	146	10.406	10.406	(0.995)	661530	200.000	202.49(A)
84	1,4-Dichlorobenzene	146	10.480	10.480	(1.002)	669697	200.000	202.03(A)
87	n-Butylbenzene	91	10.776	10.776	(1.030)	1137513	200.000	202.32(A)
88	1,2-Dichlorobenzene	146	10.798	10.798	(1.032)	632693	200.000	201.82(A)
89	1,2-Dibromo-3-Chloropropane	75	11.464	11.464	(1.096)	64003	200.000	197.85
90	1,2,4-Trichlorobenzene	180	12.155	12.155	(1.162)	425707	200.000	202.49(A)
91	Hexachlorobutadiene	225	12.290	12.290	(1.175)	203423	200.000	202.62(A)
92	Naphthalene	128	12.367	12.367	(1.182)	921837	200.000	196.32
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	341625	200.000	199.86
135	1,4-Dioxane	88	6.448	6.448	(1.257)	43691	4000.00	3971.44(AM)
146	Methyl acetate	43	2.991	2.991	(0.583)	219776	200.000	200.90(A)
138	Freon TF	101	2.590	2.590	(0.505)	284404	200.000	202.03(A)
139	Diethyl ether	59	2.377	2.377	(0.463)	204606	200.000	204.12(A)
140	1,3-Butadiene	54	1.564	1.564	(0.305)	182119	200.000	202.38(A)
141	Cyclohexane	56	5.110	5.110	(0.996)	489133	200.000	202.13
147	Methylcyclohexane	83	6.252	6.252	(1.068)	469723	200.000	202.35(A)
132	n-Butanol	56	6.252	6.252	(1.219)	180021	4000.00	4111.77(TA)
131	Methyl Acrylate	55	4.689	4.689	(0.914)	294954	200.000	199.25
133	Ethyl Acrylate	55	6.249	6.249	(1.218)	765252	200.000	197.80(M)
136	n-Hexane	57	3.673	3.673	(0.716)	360049	200.000	202.71(A)
142	Tetrahydrofuran	42	4.860	4.860	(0.947)	105694	400.000	407.17(A)
148	Tert-butyl alcohol	59	3.236	3.236	(0.631)	336149	4000.00	3312.77
149	Isopropyl alcohol	45	2.818	2.818	(0.549)	271337	4000.00	3994.43
151	4-Methyl-2-pentanol	45	7.477	7.477	(0.883)	2215844	4000.00	3995.34
166	1,2,3-Trimethylbenzene	105	10.522	10.522	(1.006)	1018812	200.000	180.70
167	Ethanol	45	2.313	2.313	(0.451)	38509	4000.00	4001.14(A)
172	tert-Butyl formate	59	3.236	3.236	(0.631)	336149	400.000	402.41(A)
173	3,3-Dimethyl-1-butanol	57	8.043	8.043	(0.950)	656537	4000.00	3999.41
174	tert-Amyl methyl ether	73	5.580	5.580	(1.088)	840188	200.000	200.66(A)
175	tert-Butyl ethyl ether	59	4.377	4.377	(0.853)	924307	200.000	197.15
157	2-Methylnaphthalene	142	13.342	13.342	(1.275)	416611	200.000	243.77(A)
156	Diisopropyl ether	45	3.950	3.950	(0.770)	1051609	200.000	192.60
171	1-Methylnaphthalene	142	13.525	13.525	(1.293)	333680	200.000	220.83(A)
130	Ethyl Acetate	43	3.946	3.946	(0.769)	1931046	200.000	201.19(A)
176	tert-Amyl alcohol	59	5.515	5.515	(1.075)	319518	4000.00	4004.03(A)
160	Epichlorohydrin	57	6.917	6.917	(1.182)	79218	800.000	804.72(A)
161	Butyl acrylate	55	8.998	8.998	(1.063)	724805	200.000	200.08(A)
182	Isobutylene	56	1.946	1.946	(0.380)	46322	200.000	199.66(AM)
183	Isopropyl Acetate	43	5.573	5.573	(0.952)	902069	200.000	200.78(A)
184	n-Amyl acetate	43	9.197	9.197	(1.086)	709851	200.000	201.76(A)
185	Acetaldehyde	44	1.628	1.628	(0.317)	175217	800.000	802.79(A)
186	n-Butyl acetate	43	7.969	7.969	(0.941)	496957	200.000	199.84(AM)
187	2-Etyhlhexyl Acrylate	55	12.319	12.319	(1.178)	412027	200.000	199.87(TAM)
188	Tetrahydrothiophene	60	7.959	7.959	(0.940)	335016	200.000	200.01(TAM)
189	sec-Butyl Ether	57	7.406	7.406	(0.875)	269472	200.000	197.18(AM)
190	Isoprene	39	2.397	2.397	(0.467)	85840	200.000	202.04(AM)
191	2-Chloropropene	41	2.146	2.146	(0.418)	453281	200.000	191.62(AM)

QC Flag Legend

T - Target compound detected outside RT window.
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061510.D
Date : 15-JUN-2024 17:04
Client ID: VSTD200
Sample Info: VSTD200;VSTD200;1;9
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7.i
Operator: AP
Column diameter: 0.18

\\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061510.D

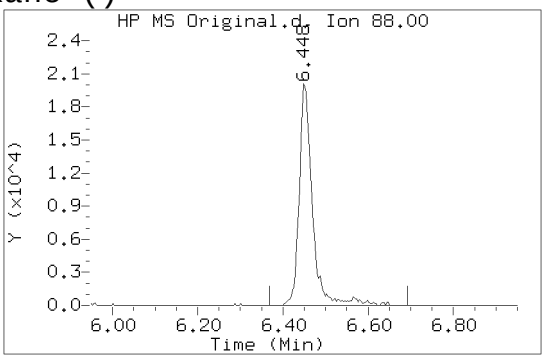
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061510.D
Inj Date : 15-JUN-2024 17:04
InstruID : voa7.i
LabSampID : VSTD200

1,4-Dioxane ()

Reason Code:

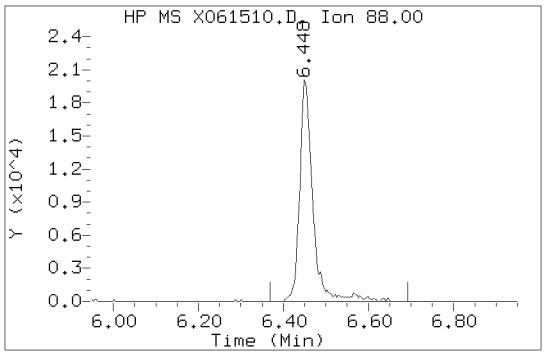
BEFORE

MASS
88
AREA
43691
HEIGHT
20104
12-Jul-2024
11:38
s
zaid



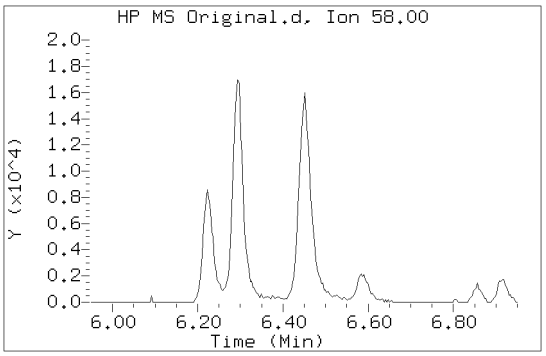
AFTER

MASS
88
AREA
43691
HEIGHT
20104
12-Jul-2024
11:38
s
zaid



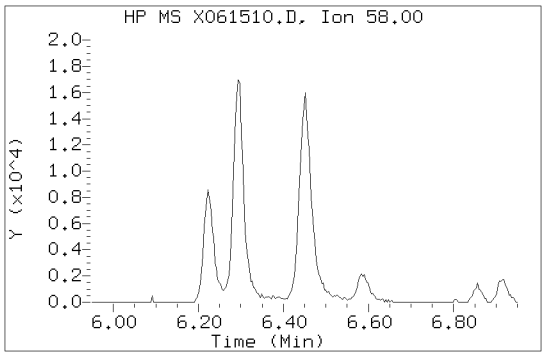
BEFORE

MASS
58
AREA
337
HEIGHT
431
12-Jul-2024
11:38
s
zaid



AFTER

MASS
58
AREA
337
HEIGHT
431
12-Jul-2024
11:38
s
zaid

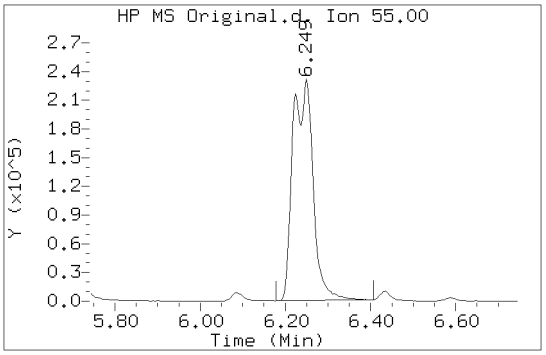


Ethyl Acrylate (140-88-5)

Reason Code:

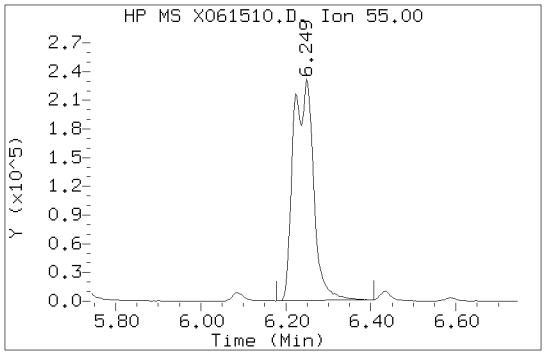
BEFORE

MASS
55
AREA
765252
HEIGHT
231571
12-Jul-2024
11:38
s
zaid



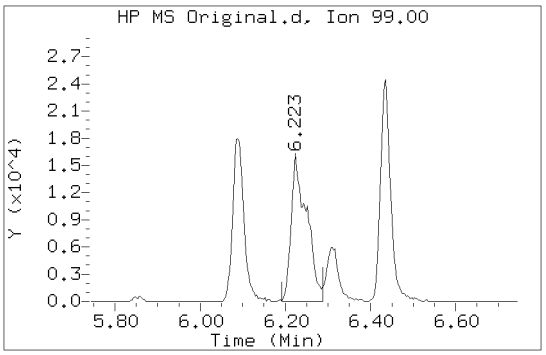
AFTER

MASS
55
AREA
765252
HEIGHT
231571
12-Jul-2024
11:38
s
zaid



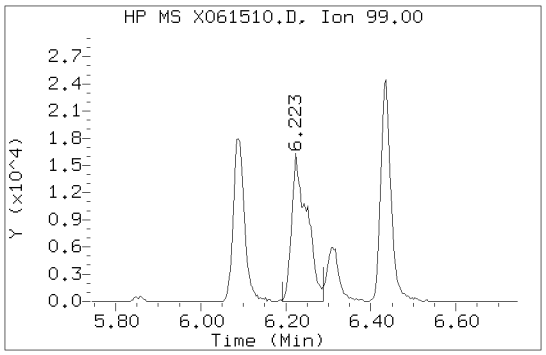
BEFORE

MASS
99
AREA
41094
HEIGHT
16355
12-Jul-2024
11:38
s
zaid



AFTER

MASS
99
AREA
41094
HEIGHT
16355
12-Jul-2024
11:38
s
zaid



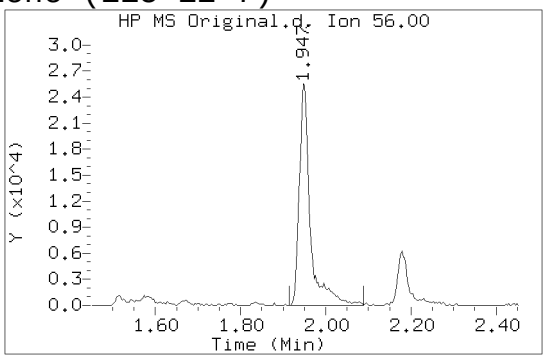
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061510.D
Inj Date : 15-JUN-2024 17:04
InstruID : voa7.i
LabSampID : VSTD200

Isobutylene (115-11-7)

Reason Code:

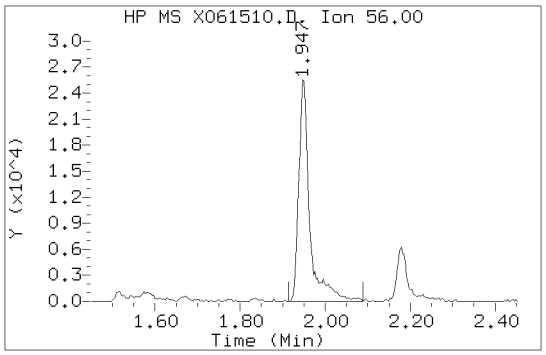
BEFORE

MASS
56
AREA
46322
HEIGHT
25544
12-Jul-2024
11:38
s
zaid



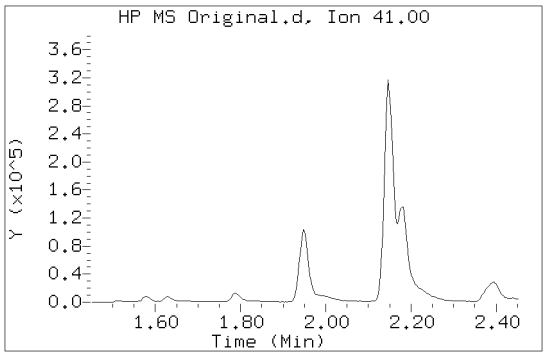
AFTER

MASS
56
AREA
46322
HEIGHT
25544
12-Jul-2024
11:38
s
zaid



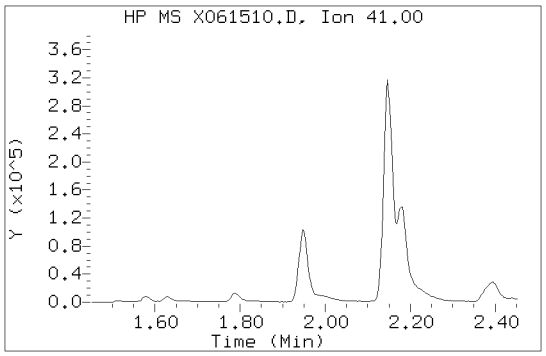
BEFORE

MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



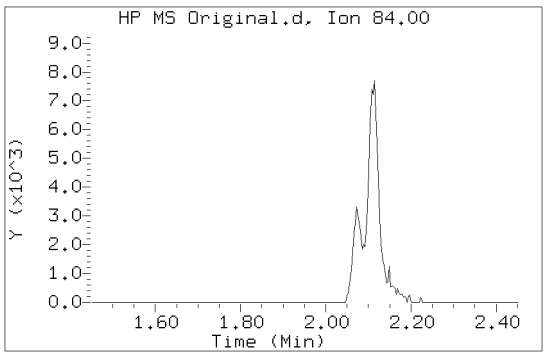
AFTER

MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



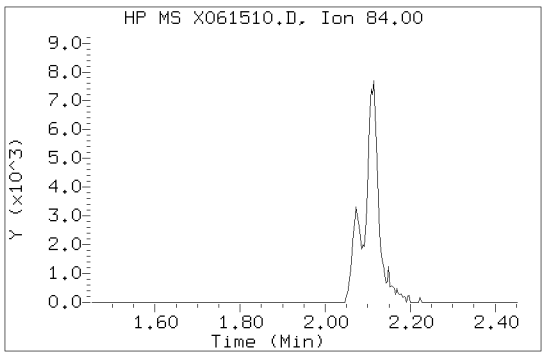
BEFORE

MASS
84
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
84
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

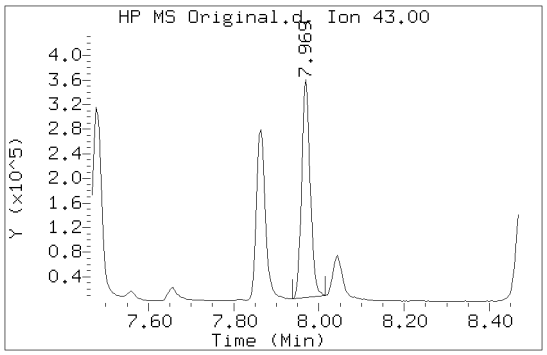


n-Butyl acetate (123-86-4)

Reason Code:

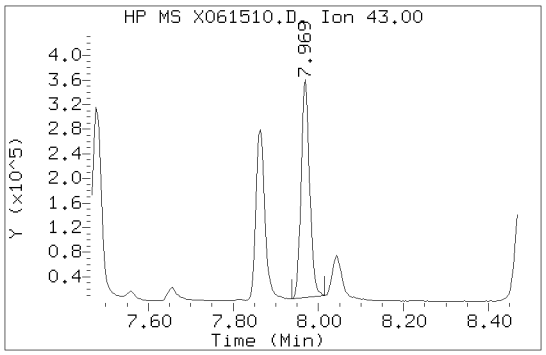
BEFORE

MASS
43
AREA
496957
HEIGHT
353835
12-Jul-2024
11:38
s
zaid



AFTER

MASS
43
AREA
496957
HEIGHT
353835
12-Jul-2024
11:38
s
zaid

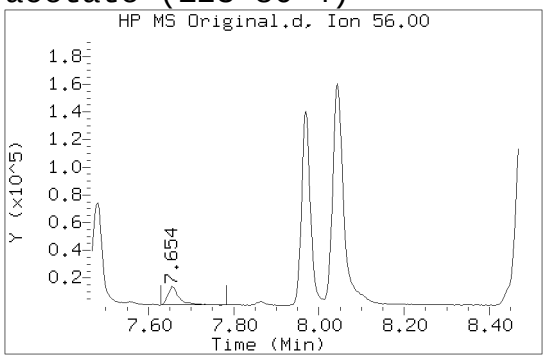


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061510.D
Inj Date : 15-JUN-2024 17:04
InstruID : voa7.i
LabSampID : VSTD200

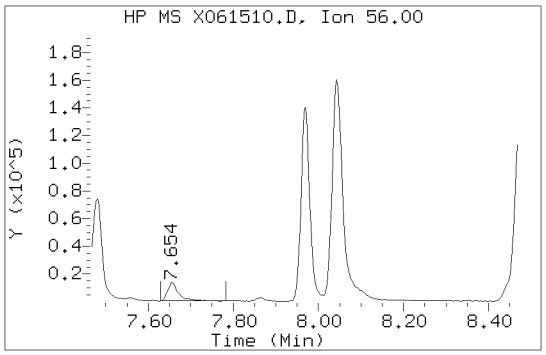
n-Butyl acetate (123-86-4)

Reason Code:

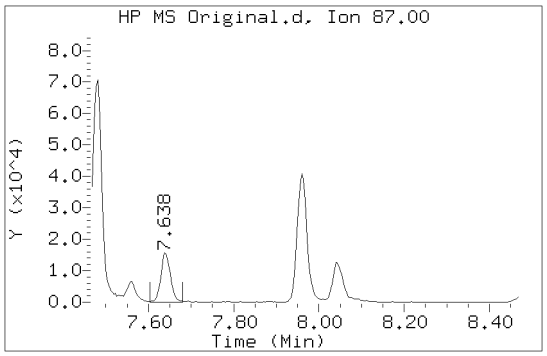
BEFORE
MASS
56
AREA
24447
HEIGHT
13559
12-Jul-2024
11:38
s
zaid



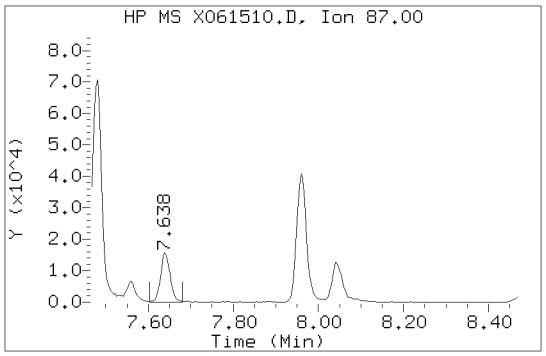
AFTER
MASS
56
AREA
24447
HEIGHT
13559
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
87
AREA
24622
HEIGHT
15833
12-Jul-2024
11:38
s
zaid



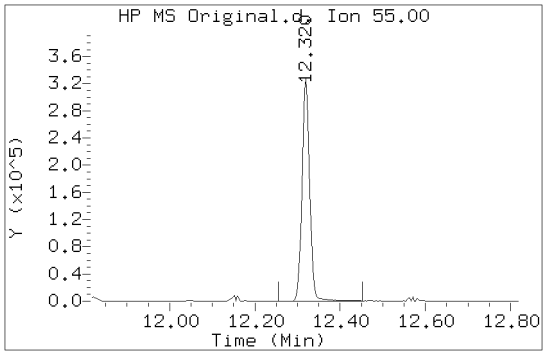
AFTER
MASS
87
AREA
24622
HEIGHT
15833
12-Jul-2024
11:38
s
zaid



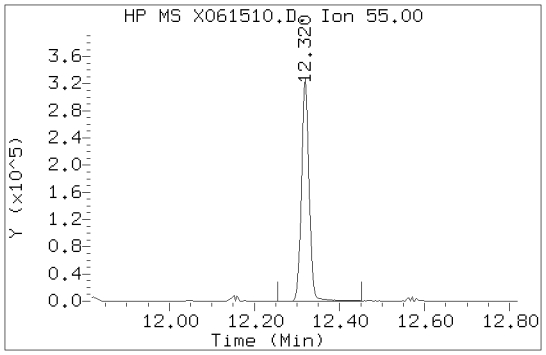
2-Etyhlhexyl Acrylate (103-11-7)

Reason Code:

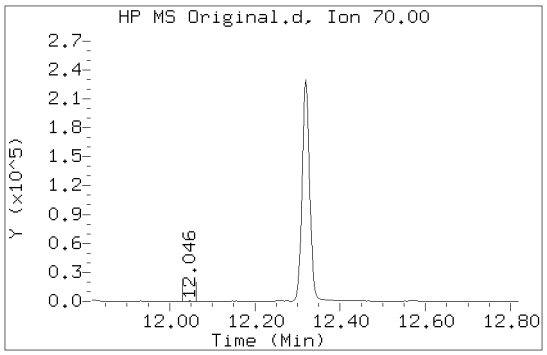
BEFORE
MASS
55
AREA
412027
HEIGHT
326580
12-Jul-2024
11:38
s
zaid



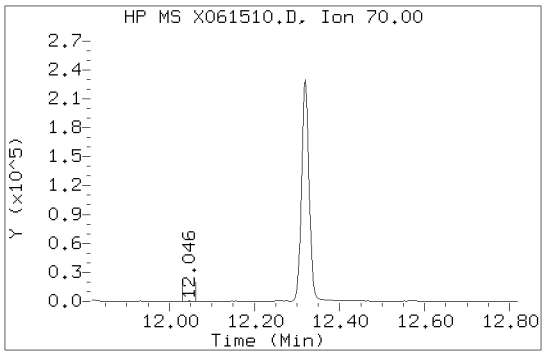
AFTER
MASS
55
AREA
412027
HEIGHT
326580
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
70
AREA
375
HEIGHT
429
12-Jul-2024
11:38
s
zaid



AFTER
MASS
70
AREA
375
HEIGHT
429
12-Jul-2024
11:38
s
zaid

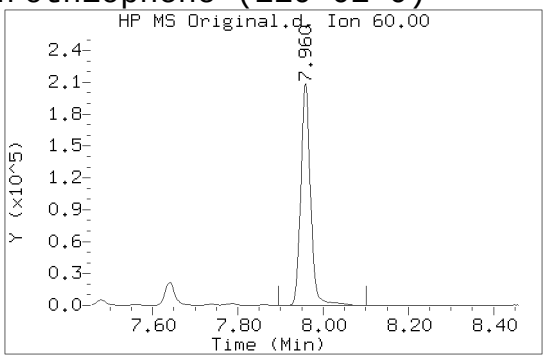


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061510.D
Inj Date : 15-JUN-2024 17:04
InstruID : voa7.i
LabSampID : VSTD200

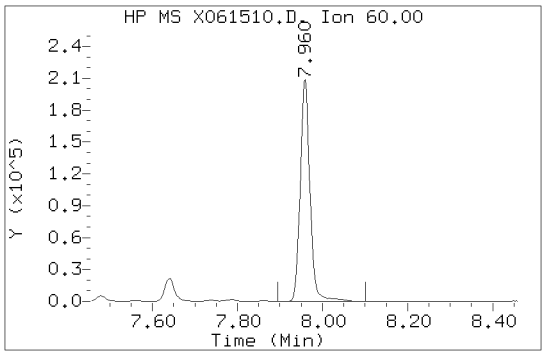
Tetrahydrothiophene (110-01-0)

Reason Code:

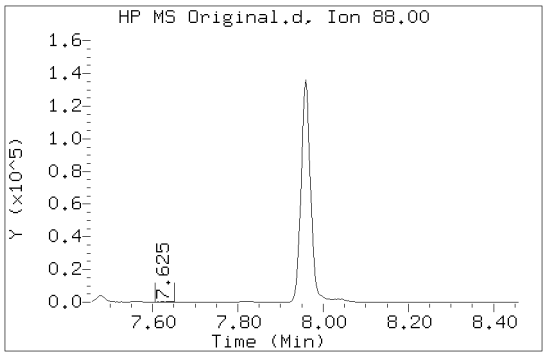
BEFORE
MASS
60
AREA
335016
HEIGHT
208586
12-Jul-2024
11:38
s
zaid



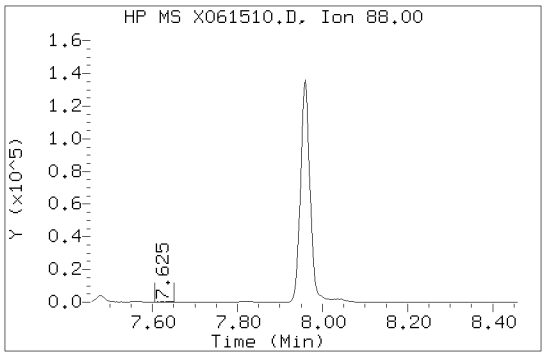
AFTER
MASS
60
AREA
335016
HEIGHT
208586
12-Jul-2024
11:38
s
zaid



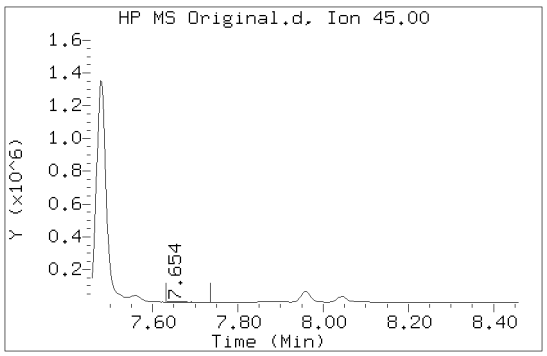
BEFORE
MASS
88
AREA
509
HEIGHT
393
12-Jul-2024
11:38
s
zaid



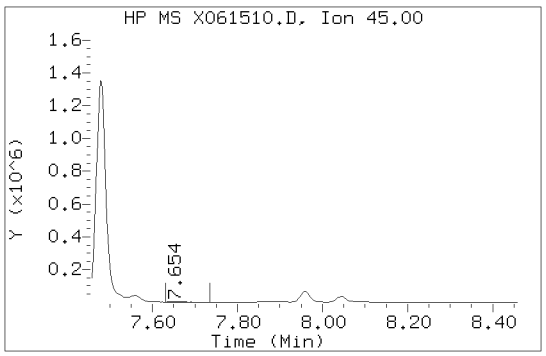
AFTER
MASS
88
AREA
509
HEIGHT
393
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
45
AREA
10289
HEIGHT
5116
12-Jul-2024
11:38
s
zaid



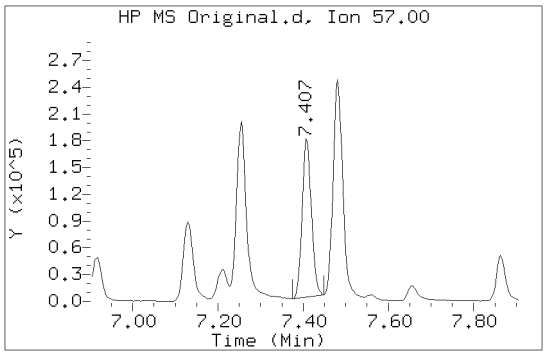
AFTER
MASS
45
AREA
10289
HEIGHT
5116
12-Jul-2024
11:38
s
zaid



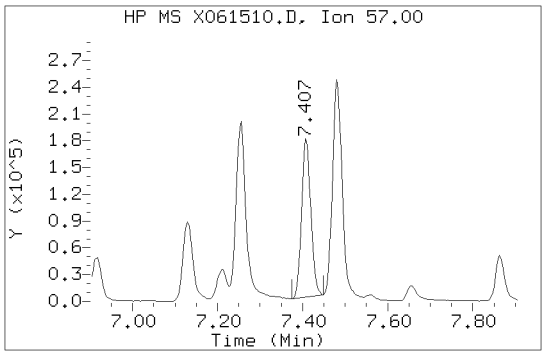
sec-Butyl Ether (6863-58-7)

Reason Code:

BEFORE
MASS
57
AREA
269472
HEIGHT
177967
12-Jul-2024
11:38
s
zaid



AFTER
MASS
57
AREA
269472
HEIGHT
177967
12-Jul-2024
11:38
s
zaid

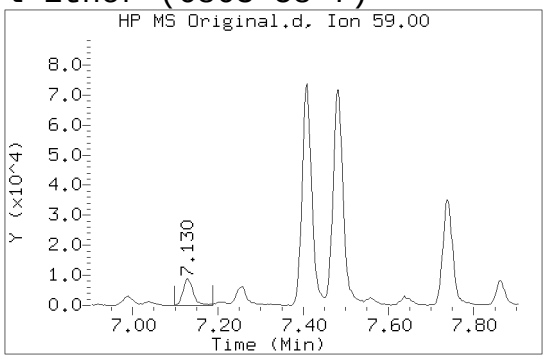


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061510.D
Inj Date : 15-JUN-2024 17:04
InstruID : voa7.i
LabSampID : VSTD200

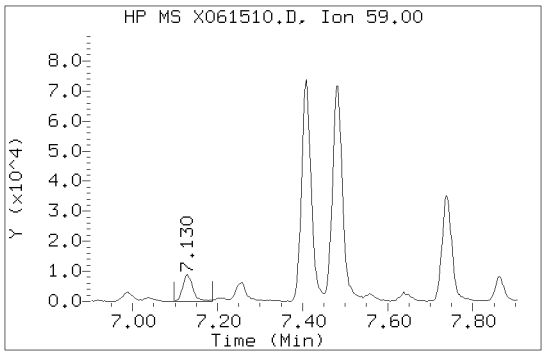
sec-Butyl Ether (6863-58-7)

Reason Code:

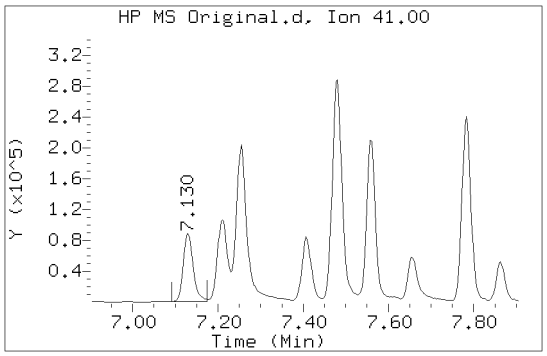
BEFORE
MASS
59
AREA
14780
HEIGHT
8928
12-Jul-2024
11:38
s
zaid



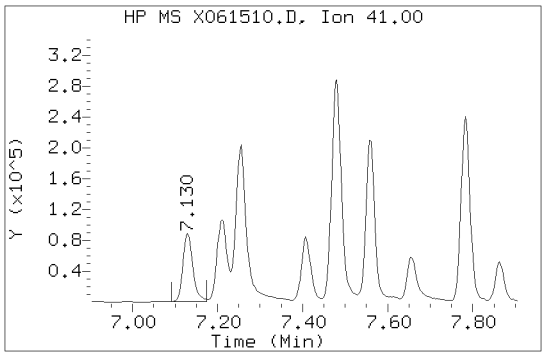
AFTER
MASS
59
AREA
14780
HEIGHT
8928
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
41
AREA
143085
HEIGHT
88485
12-Jul-2024
11:38
s
zaid



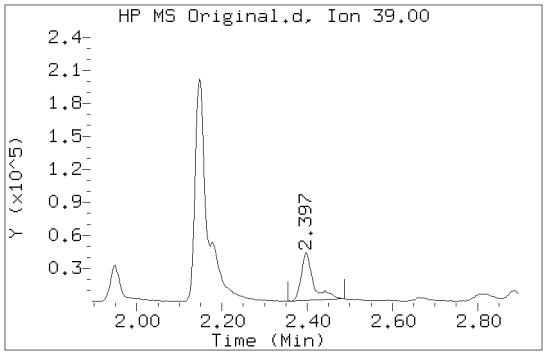
AFTER
MASS
41
AREA
143085
HEIGHT
88485
12-Jul-2024
11:38
s
zaid



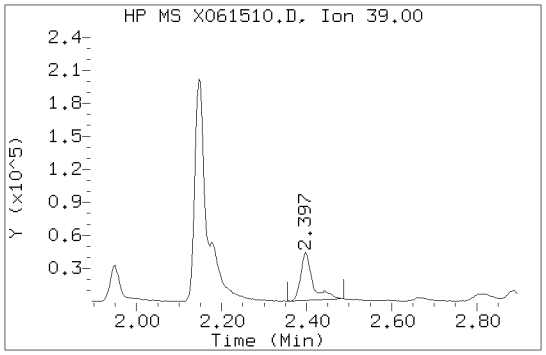
Isoprene (78-79-5)

Reason Code:

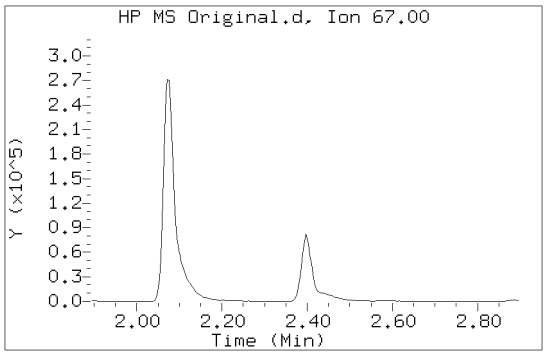
BEFORE
MASS
39
AREA
85840
HEIGHT
43299
12-Jul-2024
11:38
s
zaid



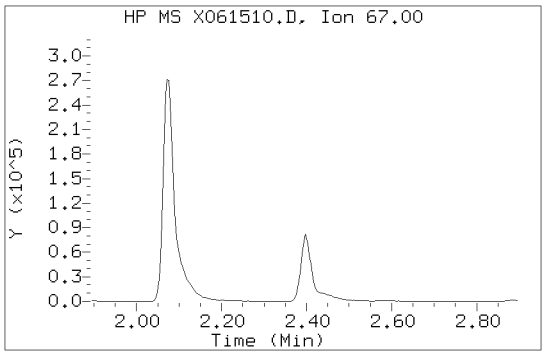
AFTER
MASS
39
AREA
85840
HEIGHT
43299
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
67
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER
MASS
67
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

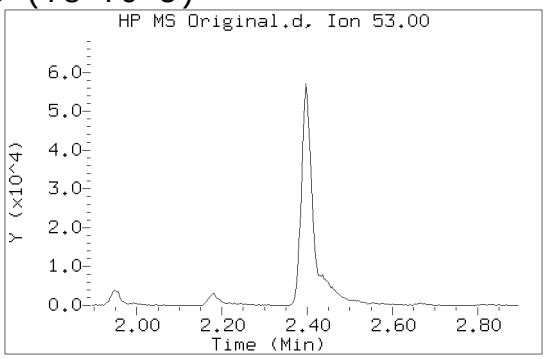


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061510.D
Inj Date : 15-JUN-2024 17:04
InstruID : voa7.i
LabSampID : VSTD200

Isoprene (78-79-5)

BEFORE

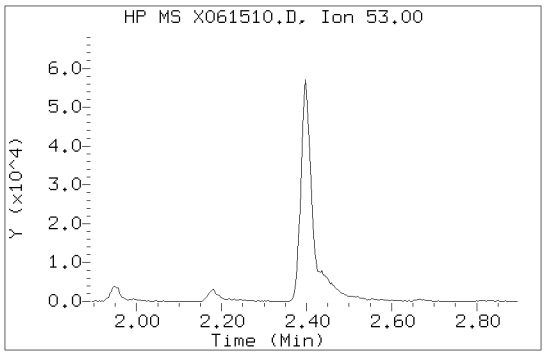
MASS
53
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
53
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

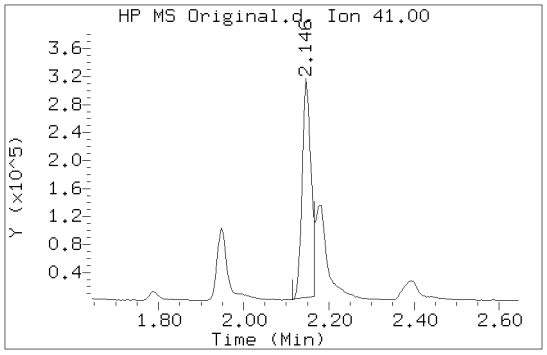
Reason Code:



2-Chloropropene (557-98-2)

BEFORE

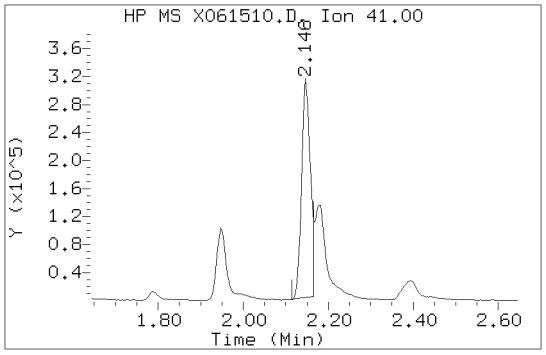
MASS
41
AREA
453281
HEIGHT
312568
12-Jul-2024
11:38
s
zaid



AFTER

MASS
41
AREA
453281
HEIGHT
312568
12-Jul-2024
11:38
s
zaid

Reason Code:



Data File: \\nahstws005\Target\chem\voa7.i\P240615.b\X061512.D Page 1
Report Date: 17-Jun-2024 10:52

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa7.i\P240615.b\X061512.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 15-JUN-2024 17:50
Operator : AP Inst ID: voa7.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240615.b\bfb.m
Meth Date : 25-Mar-2024 14:28 apoluri Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 12 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7066

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/l)		
RT	EXP RT	REL RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
9.474	9.474	(0.000)	95	80376			0.00- 100.00	100.00
9.474	9.474	(0.000)	50	15549			15.00- 40.00	19.35
9.474	9.474	(0.000)	75	40272			30.00- 60.00	50.10
9.474	9.474	(0.000)	96	5267			5.00- 9.00	6.55
9.474	9.474	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.474	9.474	(0.000)	174	62496			50.00- 0.00	77.75
9.474	9.474	(0.000)	175	5536			5.00- 9.00	8.86
9.474	9.474	(0.000)	176	60184			95.00- 101.00	96.30
9.474	9.474	(0.000)	177	4246			5.00- 9.00	7.06

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061513A.D Page 1
Report Date: 15-Jul-2024 08:45

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061513A.D
Lab Smp Id: VSTD50 Client Smp ID: VSTD050
Inj Date : 15-JUN-2024 18:35
Operator : AP Inst ID: voa7.i
Smp Info : VSTD50;VSTD050;2;;ICV
Misc Info : HS220328V7;WATER;0;1;
Comment :
Method : \\nahstws005\Target\chem\voa7.i\P240615.b\8260W.m
Meth Date : 15-Jul-2024 08:40 s.zaid Quant Type: ISTD
Cal Date : 15-JUN-2024 16:41 Cal File: X061509.D
Als bottle: 13 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	5.133	5.133	(1.000)	136227	50.0000	
2 Dichlorodifluoromethane	85	1.294	1.294	(0.252)	61785	42.7266	42.72
159 Dichlorofluoromethane	67	2.075	2.072	(0.404)	126319	44.5283	44.52
3 Chloromethane	50	1.448	1.448	(0.282)	93411	44.3695	44.36
4 Propionitrile	54	4.670	4.670	(0.910)	93957	510.307	510.30
5 Vinyl Chloride	62	1.535	1.532	(0.299)	85693	44.5632	44.56
6 Bromomethane	94	1.808	1.808	(0.352)	47993	46.1741	46.17
7 Chloroethane	64	1.895	1.895	(0.369)	53517	45.7972	45.79
8 Trichlorofluoromethane	101	2.113	2.110	(0.412)	109974	44.1650	44.16
9 Acrolein	56	2.519	2.519	(0.491)	3782	98.5359	98.53
10 Acetone	43	2.667	2.667	(0.520)	45957	96.7453	96.74
11 1,1-Dichloroethene	96	2.593	2.589	(0.505)	65023	46.4001	46.40
12 Isobutyl Alcohol	43	5.573	5.573	(1.086)	216526	955.253	955.25
13 Acetonitrile	39	2.962	2.959	(0.577)	99382	470.620	470.62
14 Allyl Chloride	41	2.956	2.959	(0.576)	207645	47.3636	47.36
15 Iodomethane	142	2.744	2.740	(0.535)	160798	90.6493	90.64
16 Acrylonitrile	53	3.380	3.371	(0.659)	46791	97.7013	97.70
17 Methylene Chloride	84	3.094	3.091	(0.603)	74608	46.2251	46.22
18 Methyl tert-butyl ether	73	3.380	3.377	(0.659)	177333	45.8395	45.83
19 Carbon Disulfide	76	2.795	2.795	(0.545)	383629	89.1120	89.11

20 trans-1,2-Dichloroethene	96	3.374	3.377 (0.657)	66371	45.5569	45.55
21 Vinyl Acetate	43	4.657	4.657 (0.907)	72230	93.5861	93.58

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061513A.D Page 2
Report Date: 15-Jul-2024 08:45

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
22	1,1-Dichloroethane	63	3.863	3.863	(0.753)	137106	42.8111	42.81
23	Chloroprene	53	3.965	3.966	(0.773)	112610	44.2631	44.26
24	2-Butanone	43	4.589	4.586	(0.894)	61809	95.5627	95.56
25	Methacrylonitrile	41	2.149	2.146	(0.419)	104812	46.1638	46.16
26	2,2-Dichloropropane	77	4.535	4.531	(0.883)	113593	41.7855	41.78
27	cis-1,2-Dichloroethene	96	4.544	4.544	(0.885)	75661	46.4828	46.48
28	Chloroform	83	4.901	4.901	(0.955)	133339	45.9129	45.91
29	Bromochloromethane	128	4.808	4.802	(0.937)	37284	47.0646	47.06
$ 30	Dibromofluoromethane	113	5.072	5.072	(0.988)	70019	48.1382	48.13
31	1,1,1-Trichloroethane	97	5.075	5.072	(0.989)	112999	44.1967	44.19
32	1,1-Dichloropropene	75	5.245	5.245	(0.896)	99095	44.4191	44.41
33	1,2-Dichloroethane	62	5.490	5.493	(0.938)	111939	45.3701	45.37
34	Carbon Tetrachloride	117	5.236	5.232	(0.895)	95671	42.5311	42.53
$ 35	1,2-Dichloroethane-d4	65	5.416	5.412	(1.055)	90411	46.5250	46.52
* 36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	227526	50.0000	
37	Benzene	78	5.457	5.457	(0.932)	276508	45.5396	45.53
38	Trichloroethene	130	6.088	6.088	(1.040)	71234	45.4414	45.44
39	Bromodichloromethane	83	6.570	6.570	(1.122)	102608	40.5073	40.50
40	Methyl Methacrylate	41	6.432	6.432	(1.253)	72561	49.7630	49.76
41	2-Chloroethylvinyl ether	63	6.853	6.856	(1.171)	62235	100.673	100.67(A)
42	1,2-Dichloropropane	63	6.309	6.309	(1.078)	80122	45.8656	45.86
43	2-Nitropropane	43	6.798	6.798	(1.324)	22639	46.3672	46.36
44	Dibromomethane	93	6.416	6.419	(1.096)	45856	45.9899	45.98
45	4-Methyl-2-Pentanone	43	7.126	7.126	(0.842)	151701	96.8892	96.88
46	cis-1,3-Dichloropropene	75	6.978	6.975	(1.192)	107051	42.9756	42.97
* 47	Chlorobenzene-d5	117	8.467	8.467	(1.000)	209133	50.0000	
$ 48	Toluene-d8	98	7.203	7.203	(0.851)	246619	48.7535	48.75
49	Ethyl Methacrylate	69	8.039	8.043	(1.374)	97275	48.5315	48.53
50	Toluene	91	7.264	7.264	(0.858)	289226	46.8348	46.83
51	trans-1,3-Dichloropropene	75	6.978	6.975	(1.192)	107051	42.9756	42.97
52	2-Hexanone	43	7.859	7.859	(0.928)	105118	99.2636	99.26
53	1,1,2-Trichloroethane	83	7.637	7.637	(0.902)	56629	48.7611	48.76
54	1,3-Dichloropropane	76	7.782	7.782	(0.919)	117938	47.2500	47.25
55	Dibromochloromethane	129	7.978	7.975	(0.942)	74336	43.3965	43.39
56	Tetrachloroethene	164	7.737	7.737	(0.914)	54881	46.3100	46.30
57	1,2-Dibromoethane	107	8.071	8.071	(0.953)	56824	46.0540	46.05
58	1-Chlorohexane	55	8.467	8.467	(1.447)	72236	45.7622	45.76
59	Chlorobenzene	112	8.493	8.493	(1.003)	189695	46.8996	46.89
60	1,1,1,2-Tetrachloroethane	131	8.563	8.563	(1.011)	65674	45.3115	45.31
61	Ethylbenzene	106	8.583	8.583	(1.014)	96847	46.3161	46.31
62	m,p-Xylenes	106	8.682	8.682	(1.025)	243915	93.1886	93.18
63	o-Xylene	106	9.023	9.023	(1.066)	117675	46.5592	46.55
64	Styrene	104	9.039	9.039	(1.068)	212390	47.5650	47.56
66	Bromoform	173	9.206	9.206	(1.087)	48677	45.0671	45.06
67	Isopropylbenzene	105	9.338	9.338	(1.103)	301177	45.9827	45.98
68	1,1,2,2-Tetrachloroethane	83	9.608	9.608	(0.919)	88012	47.9223	47.92
$ 69	4-Bromofluorobenzene	95	9.473	9.473	(1.119)	99134	48.9527	48.95
* 70	1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	109830	50.0000	
71	1,2,3-Trichloropropane	75	9.650	9.647	(0.923)	97296	46.6570	46.65
72	trans-1,4-Dichloro-2-butene	53	9.660	9.657	(1.141)	19704	43.2626	43.26
73	n-Propylbenzene	91	9.689	9.689	(0.927)	371370	45.3059	45.30
74	Bromobenzene	156	9.605	9.602	(0.919)	82413	46.2048	46.20

75	1,3,5-Trimethylbenzene	105	9.837	9.837 (0.941)	264058	44.7875	44.78
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	228938	45.9649	45.96

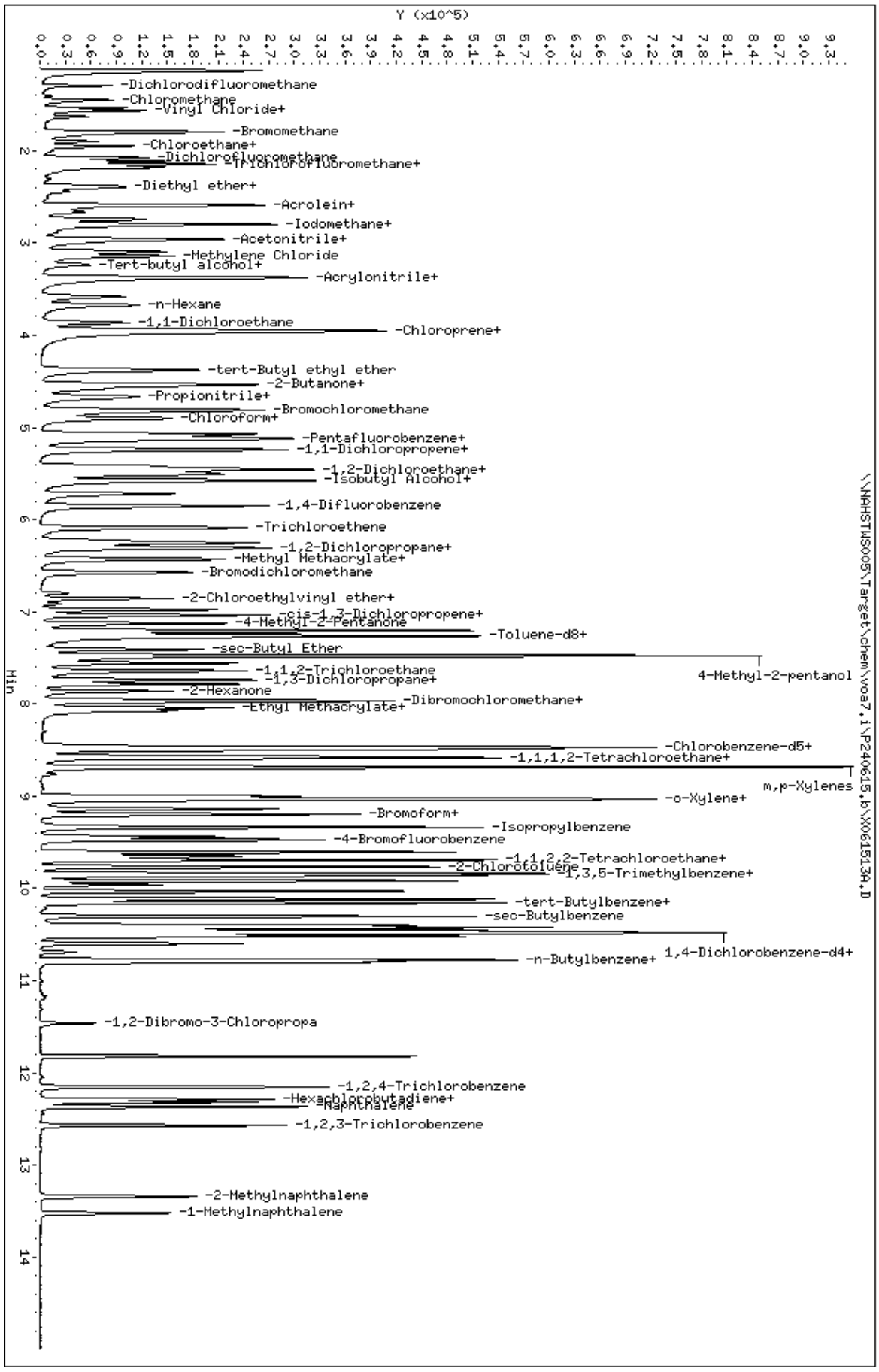
Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061513A.D Page 3
Report Date: 15-Jul-2024 08:45

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
77	4-Chlorotoluene	91	9.859	9.859	(0.943)	268779	45.6093	45.60
78	tert-Butylbenzene	119	10.116	10.116	(0.967)	216656	44.8275	44.82
79	1,2,4-Trimethylbenzene	105	10.158	10.158	(0.971)	266199	45.6782	45.67
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	303656	45.3800	45.38
82	p-Isopropyltoluene	119	10.425	10.425	(0.997)	273024	45.2872	45.28
83	1,3-Dichlorobenzene	146	10.403	10.403	(0.995)	152118	46.3046	46.30
84	1,4-Dichlorobenzene	146	10.476	10.477	(1.002)	155589	46.4376	46.43
87	n-Butylbenzene	91	10.772	10.772	(1.030)	254820	45.1503	45.15
88	1,2-Dichlorobenzene	146	10.795	10.798	(1.032)	145939	46.2420	46.24
89	1,2-Dibromo-3-Chloropropane	75	11.464	11.464	(1.096)	14627	45.0653	45.06
90	1,2,4-Trichlorobenzene	180	12.155	12.152	(1.162)	93890	45.1489	45.14
91	Hexachlorobutadiene	225	12.287	12.290	(1.175)	45122	45.3586	45.35
92	Naphthalene	128	12.367	12.370	(1.183)	210650	44.7113	44.71
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	75982	44.3047	44.30
135	1,4-Dioxane	88	6.448	6.448	(1.256)	11466	1041.15	1041.14(A)
146	Methyl acetate	43	2.667	2.667	(0.520)	47651	43.2314	43.23(TM)
138	Freon TF	101	2.589	2.593	(0.505)	61266	44.1610	44.16
139	Diethyl ether	59	2.377	2.377	(0.463)	49622	49.9661	49.96
140	1,3-Butadiene	54	1.564	1.560	(0.305)	39081	44.4127	44.41
141	Cyclohexane	56	5.113	5.107	(0.996)	106180	43.7732	43.77
147	Methylcyclohexane	83	6.252	6.248	(1.068)	102076	45.2295	45.22
132	n-Butanol	56	6.248	6.252	(1.217)	40920	943.348	943.34(TM)
131	Methyl Acrylate	55	4.689	4.686	(0.914)	74381	49.7563	49.75
133	Ethyl Acrylate	55	6.223	6.223	(1.212)	181619	47.3824	47.38
136	n-Hexane	57	3.673	3.673	(0.716)	73886	42.5663	42.56
142	Tetrahydrofuran	42	4.863	4.859	(0.947)	24144	95.0148	95.01
148	Tert-butyl alcohol	59	3.239	3.236	(0.631)	84515	840.666	840.66
149	Isopropyl alcohol	45	2.814	2.808	(0.548)	71559	1040.89	1040.89
151	4-Methyl-2-pentanol	45	7.473	7.473	(0.883)	523832	954.944	954.94
166	1,2,3-Trimethylbenzene	105	10.518	10.518	(1.006)	243835	43.1038	43.10
167	Ethanol	45	2.310	2.310	(0.450)	11845	1064.25	1064.24
172	tert-Butyl formate	59	3.239	3.236	(0.631)	84515	100.266	100.26
173	3,3-Dimethyl-1-butanol	57	8.042	8.043	(0.950)	134546	984.001	984.00
174	tert-Amyl methyl ether	73	5.580	5.576	(1.087)	199364	47.9235	47.92
175	tert-Butyl ethyl ether	59	4.377	4.377	(0.853)	215092	46.3058	46.30
157	2-Methylnaphthalene	142	13.341	13.341	(1.276)	86847	50.6476	50.64
156	Diisopropyl ether	45	3.949	3.949	(0.769)	255250	47.1858	47.18
171	1-Methylnaphthalene	142	13.525	13.521	(1.293)	73172	48.2645	48.26
130	Ethyl Acetate	43	3.946	3.943	(0.769)	437922	46.1611	46.16
176	tert-Amyl alcohol	59	5.509	5.509	(1.073)	81575	1013.35	1013.35(A)
160	Epichlorohydrin	57	6.914	6.914	(1.181)	18383	186.359	186.35
161	Butyl acrylate	55	8.997	8.997	(1.063)	170560	48.0336	48.03
182	Isobutylene	56	1.953	1.953	(0.381)	10388	46.0776	46.07(AM)
183	Isopropyl Acetate	43	5.573	5.573	(0.952)	216526	47.3702	47.37(A)
184	n-Amyl acetate	43	9.194	9.194	(1.086)	152210	44.3932	44.39(A)
185	Acetaldehyde	44	1.628	1.631	(0.317)	45485	207.176	207.17(AM)
186	n-Butyl acetate	43	7.969	7.965	(0.941)	129734	52.3703	52.37(A)
187	2-Etyhlhexyl Acrylate	55	12.319	12.319	(1.178)	75925	53.9246	53.92(A)
188	Tetrahydrothiophene	60	7.956	7.959	(0.940)	81426	49.2748	49.27(A)
189	sec-Butyl Ether	57	7.406	7.406	(0.875)	66955	47.9291	47.92(A)
190	Isoprene	39	2.396	2.400	(0.467)	18252	43.6481	43.64(AM)
191	2-Chloropropene	41	2.149	2.146	(0.419)	104812	44.7230	44.72(A)

M	94	1,2-Dichloroethylene (total)	96			142032	92.0397	92.03
M	95	Xylenes (total)	106			361590	139.748	139.74

QC Flag Legend

T - Target compound detected outside RT window.
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061513A.D
Date : 15-JUN-2024 18:35
Client ID: VSTD050
Sample Info: VSTD50;VSTD050;2;;ICV
Purge Volume: 5.0
Column phase: DB624

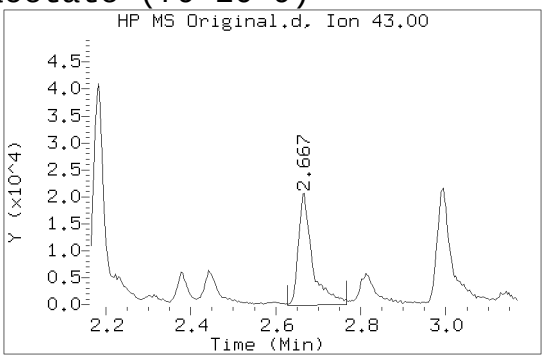
Instrument: voa7.i
Operator: AP
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061513A.D
Inj Date : 15-JUN-2024 18:35
InstruID : voa7.i
LabSampID : VSTD50

Methyl acetate (79-20-9)

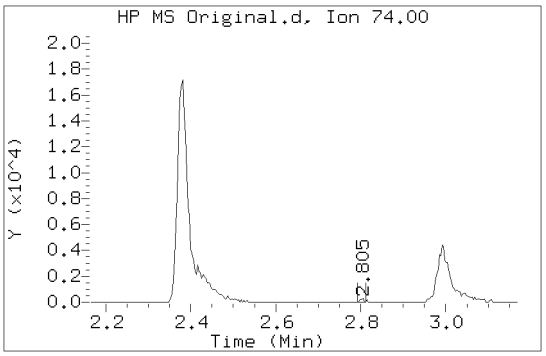
BEFORE

MASS
43
AREA
47651
HEIGHT
20746
12-Jul-2024
11:38
s
zaid



BEFORE

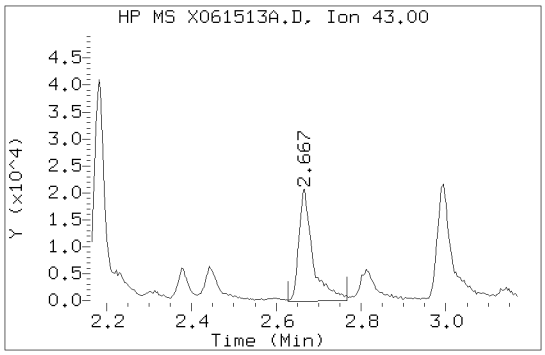
MASS
74
AREA
134
HEIGHT
294
12-Jul-2024
11:38
s
zaid



Reason Code:

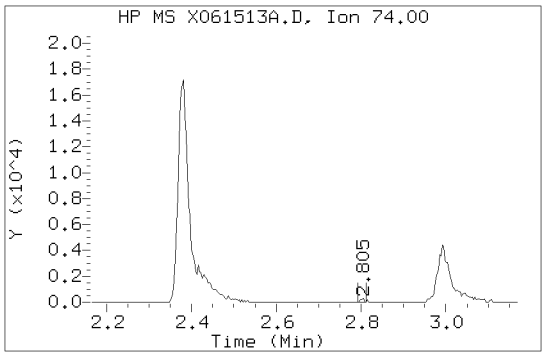
AFTER

MASS
43
AREA
47651
HEIGHT
20746
15-Jul-2024
08:45
s
zaid



AFTER

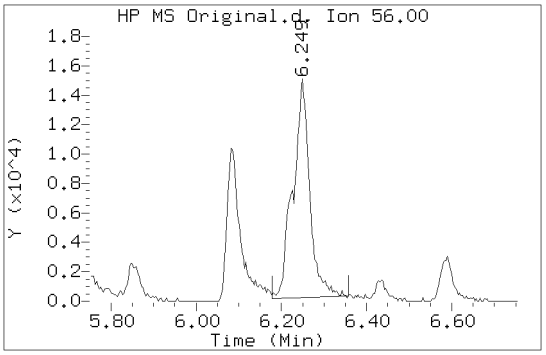
MASS
74
AREA
134
HEIGHT
294
15-Jul-2024
08:45
s
zaid



n-Butanol (71-36-3)

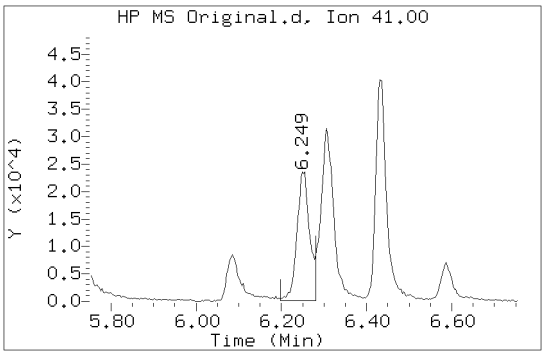
BEFORE

MASS
56
AREA
40920
HEIGHT
14879
12-Jul-2024
11:38
s
zaid



BEFORE

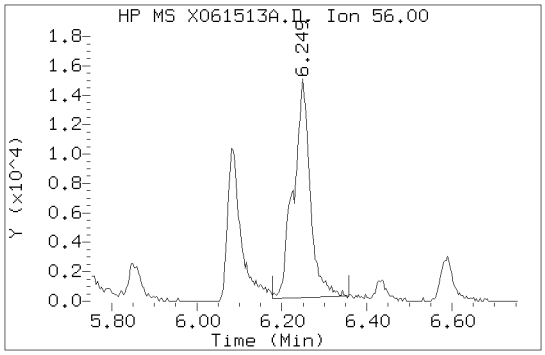
MASS
41
AREA
50020
HEIGHT
23542
12-Jul-2024
11:38
s
zaid



Reason Code:

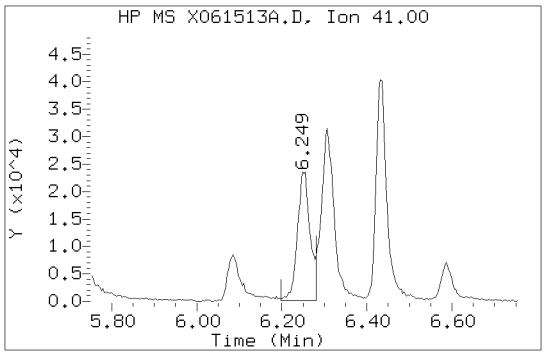
AFTER

MASS
56
AREA
40920
HEIGHT
14879
15-Jul-2024
08:45
s
zaid



AFTER

MASS
41
AREA
50020
HEIGHT
23542
15-Jul-2024
08:45
s
zaid



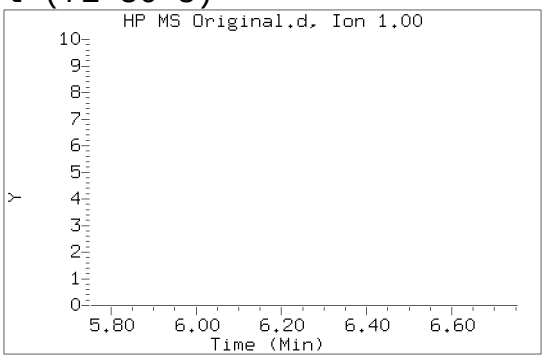
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061513A.D
Inj Date : 15-JUN-2024 18:35
InstruID : voa7.i
LabSampID : VSTD50

n-Butanol (71-36-3)

Reason Code:

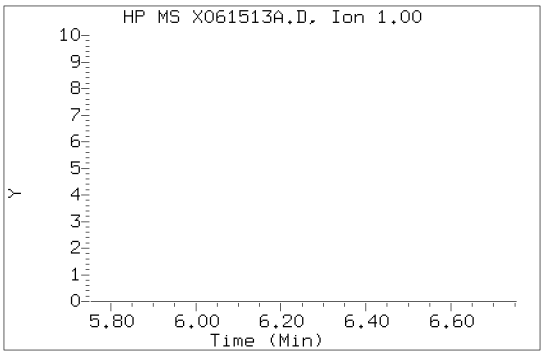
BEFORE

MASS
1
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
1
AREA
0
HEIGHT
0
15-Jul-2024
08:45
s
zaid

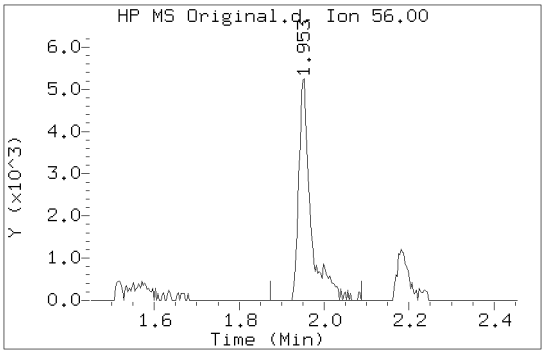


Isobutylene (115-11-7)

Reason Code:

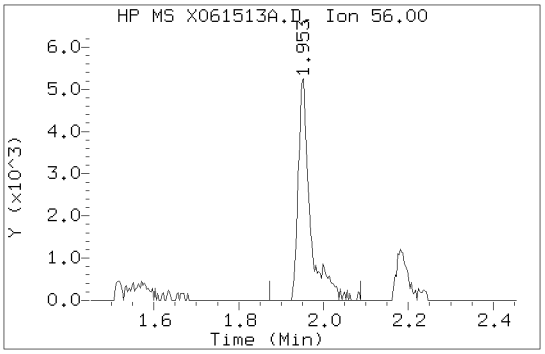
BEFORE

MASS
56
AREA
10388
HEIGHT
5253
12-Jul-2024
11:38
s
zaid



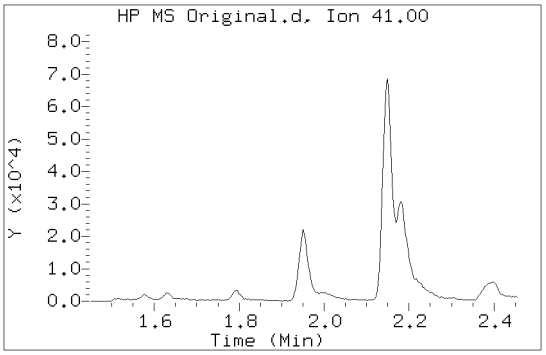
AFTER

MASS
56
AREA
10388
HEIGHT
5253
15-Jul-2024
08:45
s
zaid



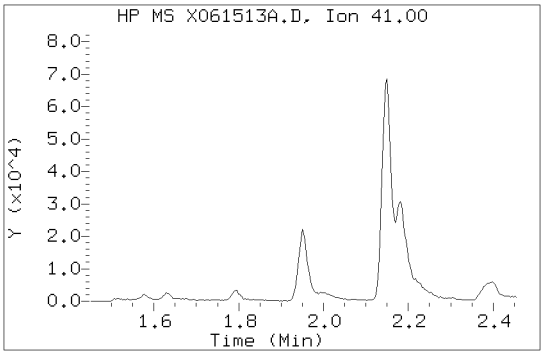
BEFORE

MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



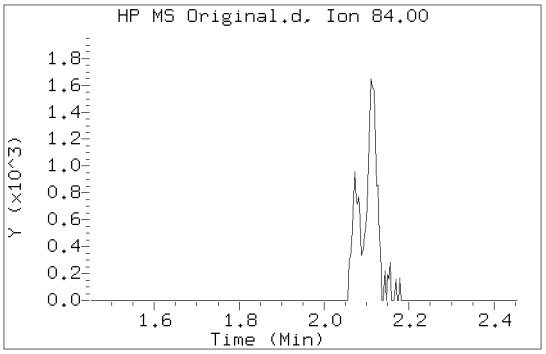
AFTER

MASS
41
AREA
0
HEIGHT
0
15-Jul-2024
08:45
s
zaid



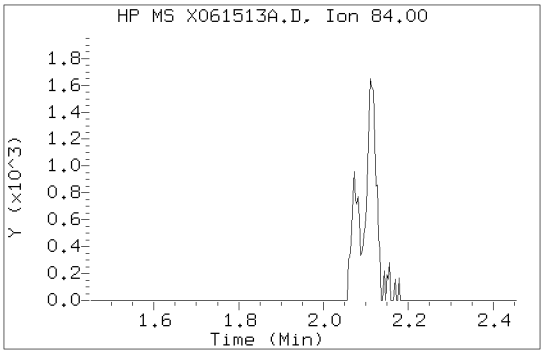
BEFORE

MASS
84
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
84
AREA
0
HEIGHT
0
15-Jul-2024
08:45
s
zaid

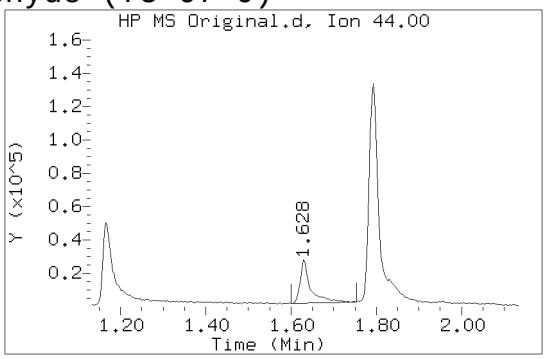


Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061513A.D
Inj Date : 15-JUN-2024 18:35
InstruID : voa7.i
LabSampID : VSTD50

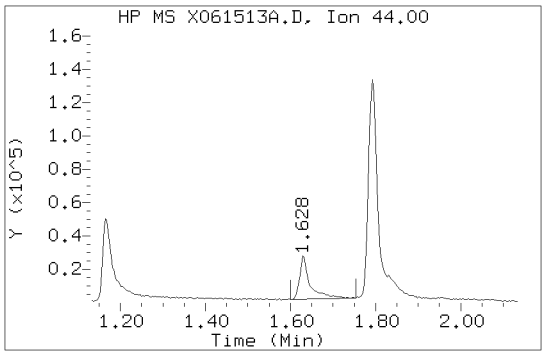
Acetaldehyde (75-07-0)

Reason Code:

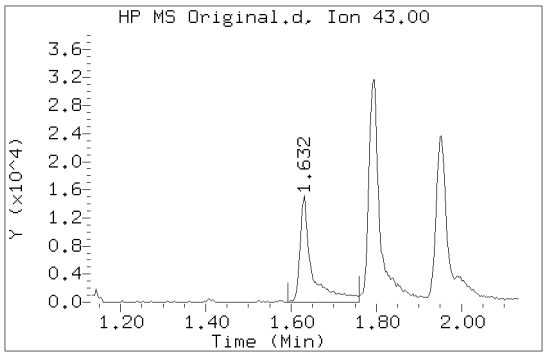
BEFORE
MASS
44
AREA
45485
HEIGHT
26157
12-Jul-2024
11:38
s
zaid



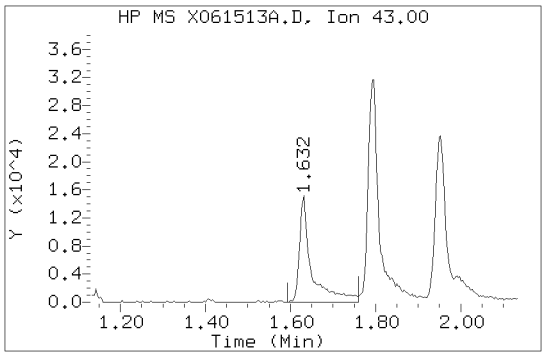
AFTER
MASS
44
AREA
45485
HEIGHT
26157
15-Jul-2024
08:45
s
zaid



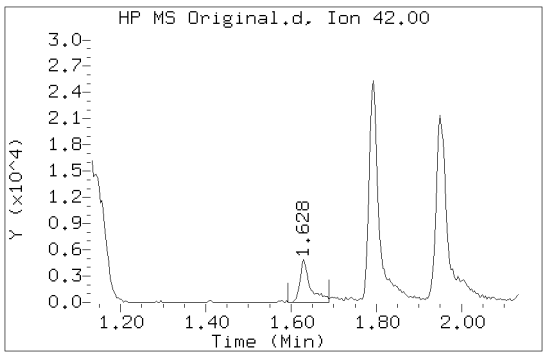
BEFORE
MASS
43
AREA
30370
HEIGHT
15194
12-Jul-2024
11:38
s
zaid



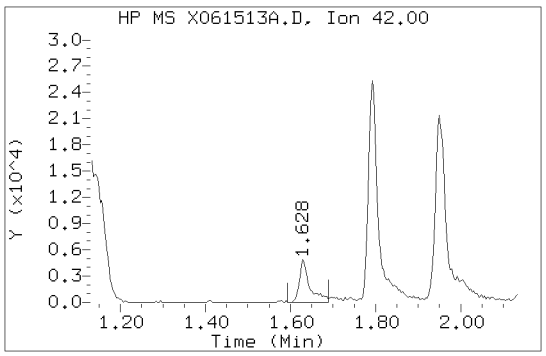
AFTER
MASS
43
AREA
30370
HEIGHT
15194
15-Jul-2024
08:45
s
zaid



BEFORE
MASS
42
AREA
8417
HEIGHT
4928
12-Jul-2024
11:38
s
zaid



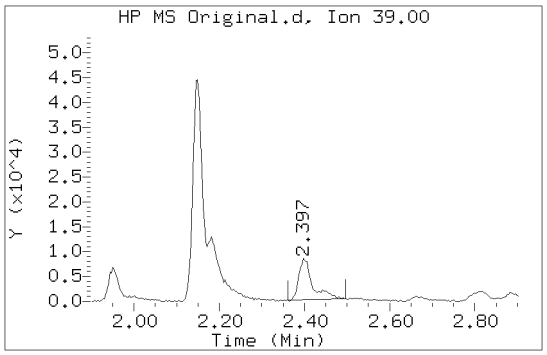
AFTER
MASS
42
AREA
8417
HEIGHT
4928
15-Jul-2024
08:45
s
zaid



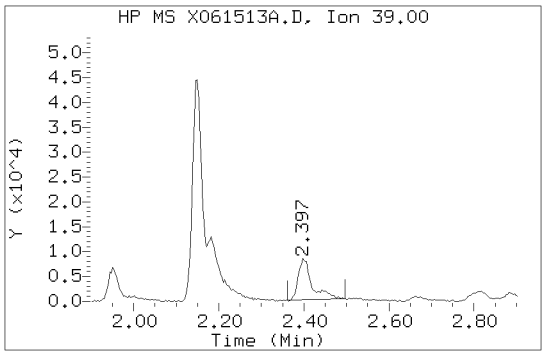
Isoprene (78-79-5)

Reason Code:

BEFORE
MASS
39
AREA
18252
HEIGHT
8325
12-Jul-2024
11:38
s
zaid



AFTER
MASS
39
AREA
18252
HEIGHT
8325
15-Jul-2024
08:45
s
zaid



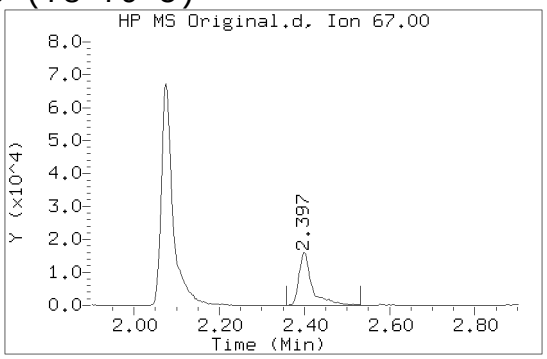
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061513A.D
Inj Date : 15-JUN-2024 18:35
InstruID : voa7.i
LabSampID : VSTD50

Isoprene (78-79-5)

Reason Code:

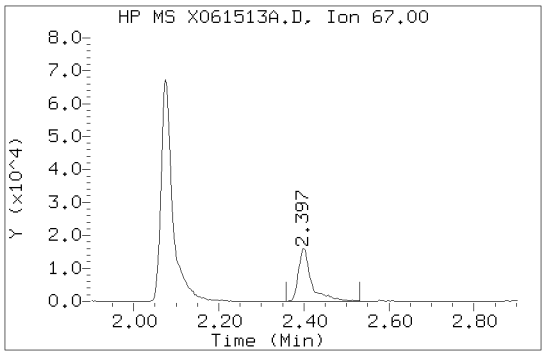
BEFORE

MASS
67
AREA
34479
HEIGHT
15931
12-Jul-2024
11:38
s
zaid



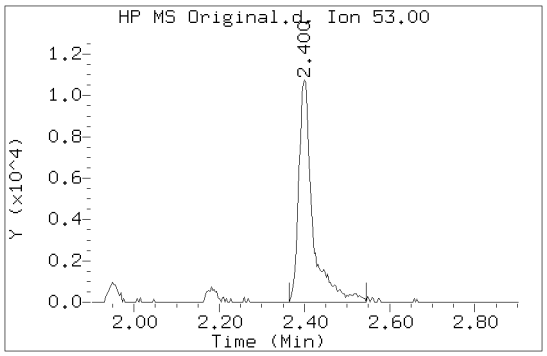
AFTER

MASS
67
AREA
34479
HEIGHT
15931
15-Jul-2024
08:45
s
zaid



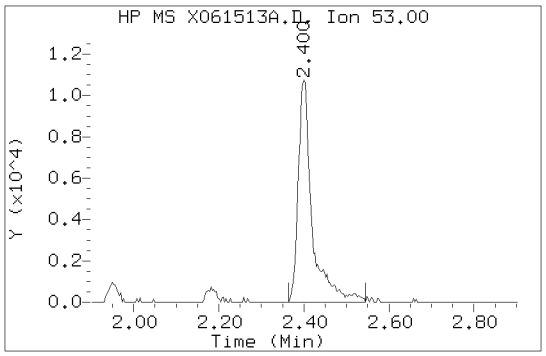
BEFORE

MASS
53
AREA
24728
HEIGHT
10754
12-Jul-2024
11:38
s
zaid



AFTER

MASS
53
AREA
24728
HEIGHT
10754
15-Jul-2024
08:45
s
zaid



right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24060434

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 18/24

07/15/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Data File: \\nahstws005\Target\chem\voa7.i\P240615.b\X061512.D Page 1
Report Date: 17-Jun-2024 10:52

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa7.i\P240615.b\X061512.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 15-JUN-2024 17:50
Operator : AP Inst ID: voa7.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240615.b\bfb.m
Meth Date : 25-Mar-2024 14:28 apoluri Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 12 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7066

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/l)		
RT	EXP RT	REL RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
9.474	9.474	(0.000)	95	80376			0.00- 100.00	100.00
9.474	9.474	(0.000)	50	15549			15.00- 40.00	19.35
9.474	9.474	(0.000)	75	40272			30.00- 60.00	50.10
9.474	9.474	(0.000)	96	5267			5.00- 9.00	6.55
9.474	9.474	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.474	9.474	(0.000)	174	62496			50.00- 0.00	77.75
9.474	9.474	(0.000)	175	5536			5.00- 9.00	8.86
9.474	9.474	(0.000)	176	60184			95.00- 101.00	96.30
9.474	9.474	(0.000)	177	4246			5.00- 9.00	7.06

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061514.D Page 1
Report Date: 12-Jul-2024 11:43

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061514.D
Lab Smp Id: VLCSW-240615 Client Smp ID: VLCSW-240615
Inj Date : 15-JUN-2024 18:58
Operator : AP Inst ID: voa7.i
Smp Info : VLCSW-240615;VLCSW-240615;3;;LCS
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240615.b\8260W.m
Meth Date : 12-Jul-2024 11:43 voa7.i Quant Type: ISTD
Cal Date : 15-JUN-2024 16:41 Cal File: X061509.D
Als bottle: 14 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1	Pentafluorobenzene	168	5.130	5.130	(1.000)	144011	50.0000	
2	Dichlorodifluoromethane	85	1.294	1.294	(0.252)	28250	18.2789	18.27
159	Dichlorofluoromethane	67	2.075	2.075	(0.405)	52112	17.3769	17.37
3	Chloromethane	50	1.451	1.448	(0.283)	43801	19.1346	19.13
4	Propionitrile	54	4.670	4.670	(0.910)	39272	195.835	195.83
5	Vinyl Chloride	62	1.535	1.535	(0.299)	38363	18.7931	18.79
6	Bromomethane	94	1.805	1.805	(0.352)	22247	19.4669	19.46
7	Chloroethane	64	1.895	1.895	(0.369)	23960	19.1559	19.15
8	Trichlorofluoromethane	101	2.110	2.114	(0.411)	48251	18.1190	18.11
9	Acrolein	56	2.519	2.512	(0.491)	1764	43.4749	43.47
10	Acetone	43	2.664	2.663	(0.519)	20131	36.5883	36.58
11	1,1-Dichloroethene	96	2.593	2.593	(0.505)	28468	19.3083	19.30
12	Isobutyl Alcohol	43	5.573	5.573	(1.086)	96059	390.067	390.06
13	Acetonitrile	39	2.956	2.959	(0.576)	41941	184.073	184.07
14	Allyl Chloride	41	2.956	2.959	(0.576)	91261	19.1311	19.13
15	Iodomethane	142	2.741	2.741	(0.534)	67683	38.4088	38.40
16	Acrylonitrile	53	3.381	3.377	(0.659)	19437	37.8292	37.82
17	Methylene Chloride	84	3.091	3.094	(0.603)	33820	18.7862	18.78
18	Methyl tert-butyl ether	73	3.377	3.377	(0.658)	76207	18.8054	18.80
19	Carbon Disulfide	76	2.795	2.795	(0.545)	174585	38.0329	38.03

20 trans-1,2-Dichloroethene	96	3.381	3.377 (0.659)	27373	17.6089	17.60
21 Vinyl Acetate	43	4.660	4.657 (0.908)	35920	42.2382	42.23

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
22	1,1-Dichloroethane	63	3.866	3.863	(0.754)	60542	17.8823	17.88
23	Chloroprene	53	3.966	3.966	(0.773)	48738	18.1020	18.10
24	2-Butanone	43	4.589	4.586	(0.895)	28853	39.8083	39.80
25	Methacrylonitrile	41	2.149	2.149	(0.419)	41981	17.4908	17.49
26	2,2-Dichloropropane	77	4.532	4.535	(0.883)	50324	17.5112	17.51
27	cis-1,2-Dichloroethene	96	4.544	4.544	(0.886)	33180	18.9714	18.97
28	Chloroform	83	4.901	4.901	(0.956)	59404	18.8866	18.88
29	Bromochloromethane	128	4.805	4.808	(0.937)	16661	19.6563	19.65
$ 30	Dibromofluoromethane	113	5.072	5.072	(0.989)	74346	48.3561	48.35
31	1,1,1-Trichloroethane	97	5.072	5.072	(0.989)	50702	18.7552	18.75
32	1,1-Dichloropropene	75	5.245	5.245	(0.896)	44398	19.2087	19.20
33	1,2-Dichloroethane	62	5.493	5.490	(0.938)	48923	18.8153	18.81
34	Carbon Tetrachloride	117	5.239	5.236	(0.895)	41442	18.2553	18.25
$ 35	1,2-Dichloroethane-d4	65	5.416	5.416	(1.056)	98398	47.9400	47.94
* 36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	236601	50.0000	
37	Benzene	78	5.458	5.457	(0.932)	125449	19.5953	19.59
38	Trichloroethene	130	6.088	6.088	(1.040)	31135	19.0161	19.01
39	Bromodichloromethane	83	6.570	6.570	(1.122)	45353	17.2176	17.21
40	Methyl Methacrylate	41	6.432	6.432	(1.254)	31000	19.0548	19.05
41	2-Chloroethylvinyl ether	63	6.853	6.856	(1.171)	26549	41.4266	41.42
42	1,2-Dichloropropane	63	6.313	6.310	(1.079)	35252	19.1604	19.16
43	2-Nitropropane	43	6.798	6.798	(1.325)	9692	18.9822	18.98
44	Dibromomethane	93	6.416	6.419	(1.096)	19871	19.1397	19.13
45	4-Methyl-2-Pentanone	43	7.130	7.126	(0.842)	68032	41.3142	41.31
46	cis-1,3-Dichloropropene	75	6.975	6.978	(1.192)	46535	18.2129	18.21
* 47	Chlorobenzene-d5	117	8.467	8.467	(1.000)	214543	50.0000	
$ 48	Toluene-d8	98	7.207	7.207	(0.851)	271130	52.3425	52.34
49	Ethyl Methacrylate	69	8.040	8.039	(1.374)	39899	19.6602	19.66
50	Toluene	91	7.265	7.265	(0.858)	130329	20.2180	20.21
51	trans-1,3-Dichloropropene	75	6.975	6.978	(1.192)	46535	18.2129	18.21
52	2-Hexanone	43	7.859	7.863	(0.928)	45121	39.7983	39.79
53	1,1,2-Trichloroethane	83	7.641	7.641	(0.902)	24755	20.2860	20.28
54	1,3-Dichloropropane	76	7.782	7.782	(0.919)	52285	19.9865	19.98
55	Dibromochloromethane	129	7.975	7.975	(0.942)	32267	18.3621	18.36
56	Tetrachloroethene	164	7.740	7.737	(0.914)	24089	19.7694	19.76
57	1,2-Dibromoethane	107	8.075	8.075	(0.954)	25288	19.4612	19.46
58	1-Chlorohexane	55	8.470	8.470	(1.447)	33865	19.3418	19.34
59	Chlorobenzene	112	8.493	8.493	(1.003)	84241	19.9202	19.92
60	1,1,1,2-Tetrachloroethane	131	8.564	8.563	(1.011)	28939	19.7280	19.72
61	Ethylbenzene	106	8.583	8.583	(1.014)	43205	19.8417	19.84
62	m,p-Xylenes	106	8.683	8.686	(1.025)	110589	40.5713	40.57
63	o-Xylene	106	9.023	9.023	(1.066)	53821	20.3451	20.34
64	Styrene	104	9.036	9.039	(1.067)	94467	20.2726	20.27
66	Bromoform	173	9.203	9.207	(1.087)	20500	18.5011	18.50
67	Isopropylbenzene	105	9.339	9.338	(1.103)	135790	20.0284	20.02
68	1,1,2,2-Tetrachloroethane	83	9.612	9.608	(0.919)	38490	20.8659	20.86
$ 69	4-Bromofluorobenzene	95	9.474	9.477	(1.119)	106150	51.1888	51.18
* 70	1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	108099	50.0000	
71	1,2,3-Trichloropropane	75	9.650	9.650	(0.923)	41820	20.0369	20.03
72	trans-1,4-Dichloro-2-butene	53	9.657	9.660	(1.140)	8615	18.5376	18.53
73	n-Propylbenzene	91	9.689	9.692	(0.927)	164119	20.3505	20.35
74	Bromobenzene	156	9.605	9.605	(0.919)	36640	20.7584	20.75

75	1,3,5-Trimethylbenzene	105	9.840	9.840 (0.941)	117380	20.3430	20.34
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	102473	20.6459	20.64

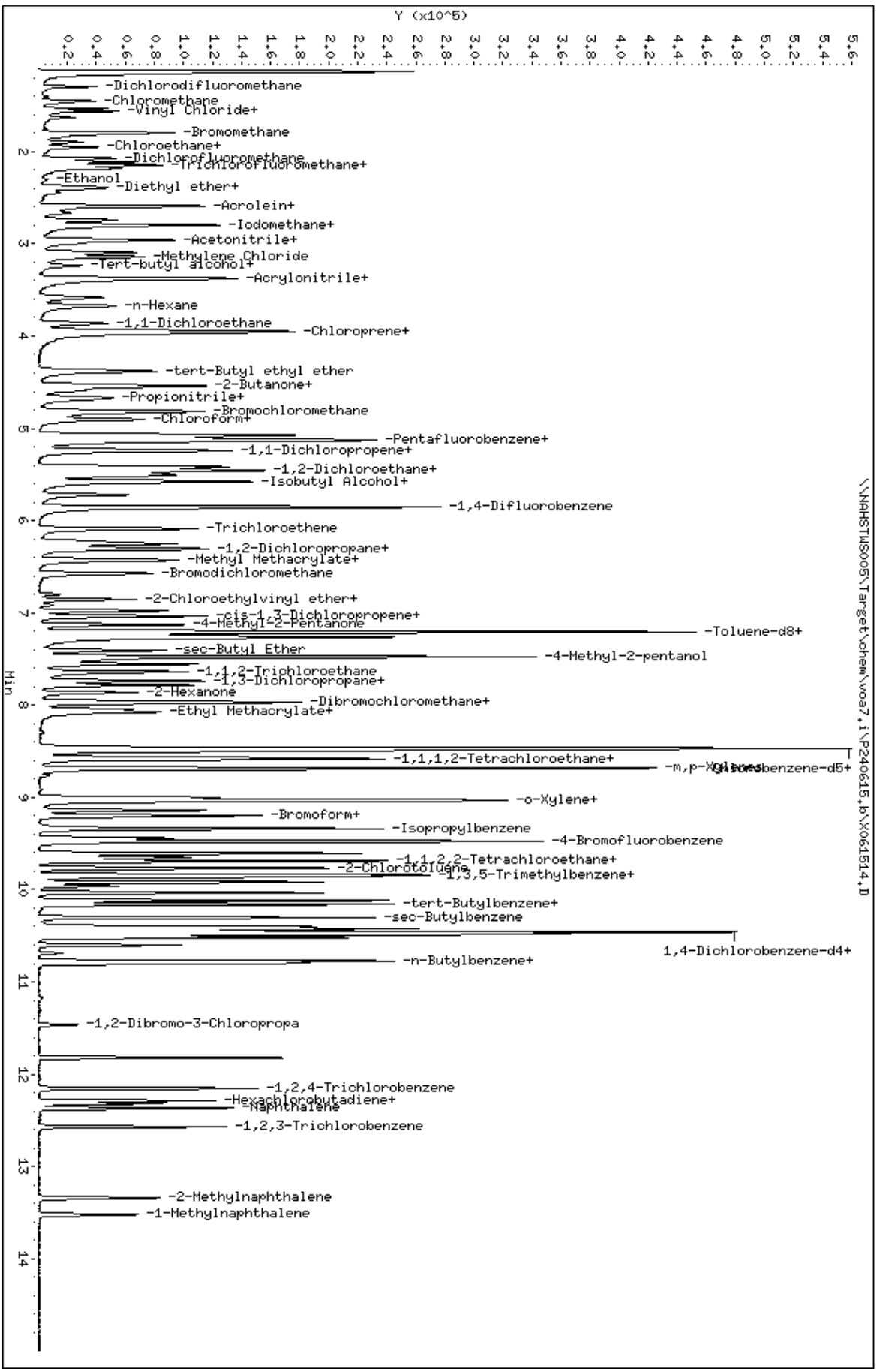
Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061514.D Page 3
Report Date: 12-Jul-2024 11:43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
77	4-Chlorotoluene	91	9.856	9.859	(0.943)	120085	20.5568	20.55
78	tert-Butylbenzene	119	10.117	10.116	(0.967)	98137	20.4980	20.49
79	1,2,4-Trimethylbenzene	105	10.158	10.158	(0.971)	118934	20.6594	20.65
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	137297	20.9483	20.94
82	p-Isopropyltoluene	119	10.425	10.428	(0.997)	120155	20.3476	20.34
83	1,3-Dichlorobenzene	146	10.403	10.403	(0.995)	67374	20.7636	20.76
84	1,4-Dichlorobenzene	146	10.477	10.480	(1.002)	68519	20.5307	20.53
87	n-Butylbenzene	91	10.773	10.776	(1.030)	112890	20.3076	20.30
88	1,2-Dichlorobenzene	146	10.798	10.798	(1.033)	63623	20.3693	20.36
89	1,2-Dibromo-3-Chloropropane	75	11.464	11.464	(1.096)	6132	19.1950	19.19
90	1,2,4-Trichlorobenzene	180	12.155	12.155	(1.162)	41372	20.6648	20.66
91	Hexachlorobutadiene	225	12.290	12.287	(1.175)	20213	21.0383	21.03
92	Naphthalene	128	12.367	12.370	(1.183)	91442	19.7197	19.71
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	33736	19.9863	19.98
135	1,4-Dioxane	88	6.451	6.445	(1.258)	5184	436.859	436.85(A)
146	Methyl acetate	43	2.664	2.991	(0.519)	20193	16.7670	16.76(M)
138	Freon TF	101	2.596	2.589	(0.506)	26831	18.4699	18.46
139	Diethyl ether	59	2.381	2.380	(0.464)	20302	19.3378	19.33
140	1,3-Butadiene	54	1.564	1.564	(0.305)	17018	18.7287	18.72
141	Cyclohexane	56	5.110	5.113	(0.996)	49080	18.7691	18.76
147	Methylcyclohexane	83	6.252	6.252	(1.068)	36803	17.0055	17.00
132	n-Butanol	56	6.249	6.248	(1.218)	13256	289.079	289.07
131	Methyl Acrylate	55	4.686	4.689	(0.914)	32891	20.0639	20.06
133	Ethyl Acrylate	55	6.220	6.223	(1.212)	74143	18.2976	18.29
136	n-Hexane	57	3.676	3.676	(0.717)	33268	18.5489	18.54
142	Tetrahydrofuran	42	4.860	4.859	(0.947)	10135	38.6185	38.61
148	Tert-butyl alcohol	59	3.239	3.236	(0.631)	39391	370.642	370.64
149	Isopropyl alcohol	45	2.815	2.815	(0.549)	31824	420.229	420.22
151	4-Methyl-2-pentanol	45	7.474	7.477	(0.883)	222293	391.298	391.29
166	1,2,3-Trimethylbenzene	105	10.519	10.518	(1.006)	100904	18.1229	18.12
167	Ethanol	45	2.303	2.316	(0.449)	5124	401.978	401.97
172	tert-Butyl formate	59	3.239	3.236	(0.631)	39391	42.8187	42.81
173	3,3-Dimethyl-1-butanol	57	8.043	8.039	(0.950)	58237	426.816	426.81
174	tert-Amyl methyl ether	73	5.580	5.580	(1.088)	86189	19.4932	19.49
175	tert-Butyl ethyl ether	59	4.381	4.377	(0.854)	93442	19.0292	19.02
157	2-Methylnaphthalene	142	13.342	13.338	(1.276)	39247	23.2547	23.25
156	Diisopropyl ether	45	3.950	3.946	(0.770)	105115	18.3814	18.38
171	1-Methylnaphthalene	142	13.522	13.521	(1.293)	33071	22.1630	22.16
130	Ethyl Acetate	43	3.946	3.946	(0.769)	184135	18.4458	18.44
176	tert-Amyl alcohol	59	5.512	5.515	(1.075)	36184	410.780	410.77(A)
160	Epichlorohydrin	57	6.914	6.914	(1.181)	7298	71.9767	71.97
161	Butyl acrylate	55	8.998	8.998	(1.063)	69916	19.3425	19.34
182	Isobutylene	56	1.953	1.950	(0.381)	3854	16.9133	16.91(AM)
183	Isopropyl Acetate	43	5.573	5.573	(0.952)	96059	19.8633	19.86(A)
184	n-Amyl acetate	43	9.197	9.194	(1.086)	65205	18.8586	18.85(A)
185	Acetaldehyde	44	1.628	1.628	(0.317)	31161	132.751	132.75(A)
186	n-Butyl acetate	43	7.969	7.969	(0.941)	55270	21.2371	21.23(A)
187	2-Etyhlhexyl Acrylate	55	12.319	12.319	(1.178)	26113	21.8375	21.83(A)
188	Tetrahydrothiophene	60	7.956	7.959	(0.940)	34600	20.3132	20.31(A)
189	sec-Butyl Ether	57	7.406	7.406	(0.875)	31766	20.8307	20.83(A)
190	Isoprene	39	2.400	2.397	(0.468)	7963	18.2275	18.22(A)
191	2-Chloropropene	41	2.149	2.149	(0.419)	41981	16.9449	16.94(A)

M	94 1,2-Dichloroethylene (total)	96		60553	36.5803	36.58
M	95 Xylenes (total)	106		164410	60.9164	60.91

QC Flag Legend

A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\NAHSTNS005\Target\chem\voa7,i\P240615,b\X061514,D
Date : 15-JUN-2024 18:58
Client ID: VLCSW-240615
Sample Info: VLCSW-240615;VLCSW-240615;3;;LCS
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7,i
Operator: AP
Column diameter: 0.18

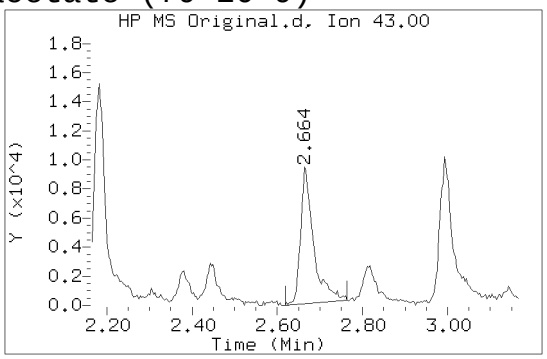
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061514.D
Inj Date : 15-JUN-2024 18:58
InstruID : voa7.i
LabSampID : VLCSW-240615

Methyl acetate (79-20-9)

Reason Code:

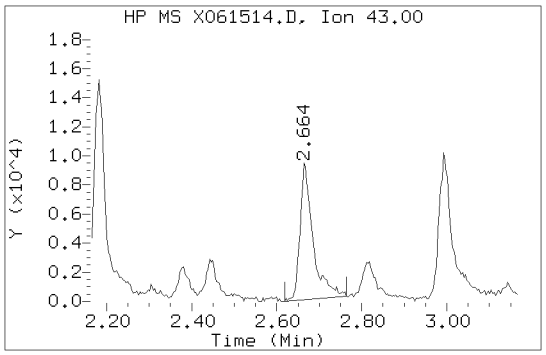
BEFORE

MASS
43
AREA
20193
HEIGHT
9406
12-Jul-2024
11:43
s
zaid



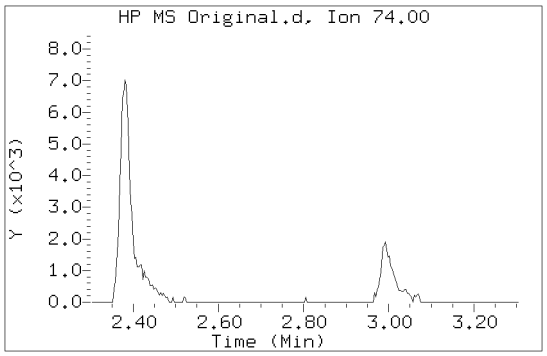
AFTER

MASS
43
AREA
20193
HEIGHT
9406
12-Jul-2024
11:43
s
zaid



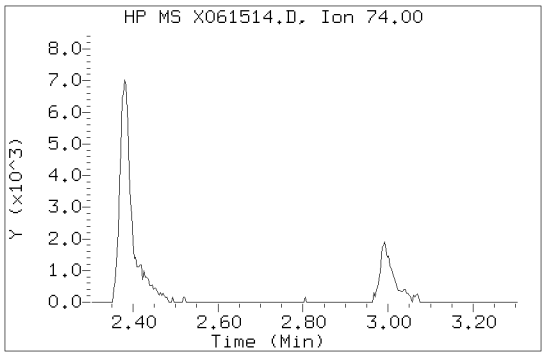
BEFORE

MASS
74
AREA
0
HEIGHT
0
12-Jul-2024
11:43
s
zaid



AFTER

MASS
74
AREA
0
HEIGHT
0
12-Jul-2024
11:43
s
zaid

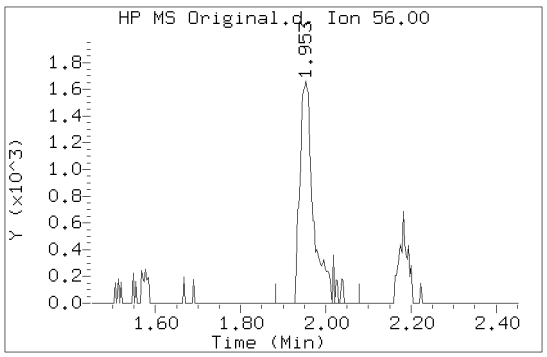


Isobutylene (115-11-7)

Reason Code:

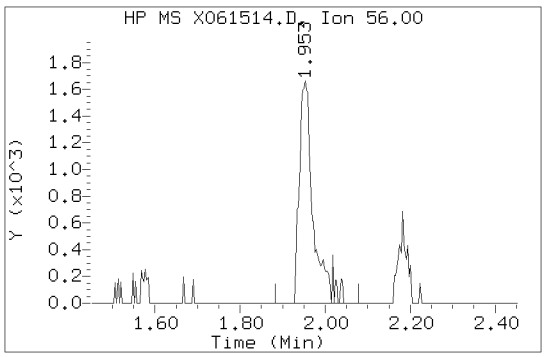
BEFORE

MASS
56
AREA
3854
HEIGHT
1663
12-Jul-2024
11:43
s
zaid



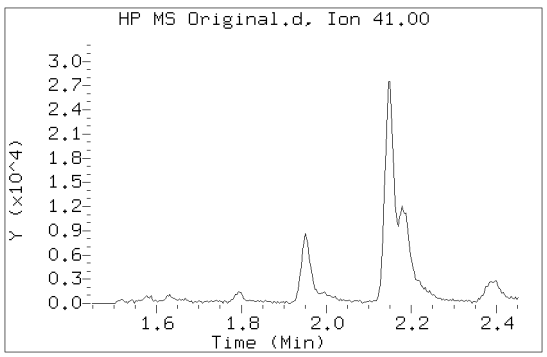
AFTER

MASS
56
AREA
3854
HEIGHT
1663
12-Jul-2024
11:43
s
zaid



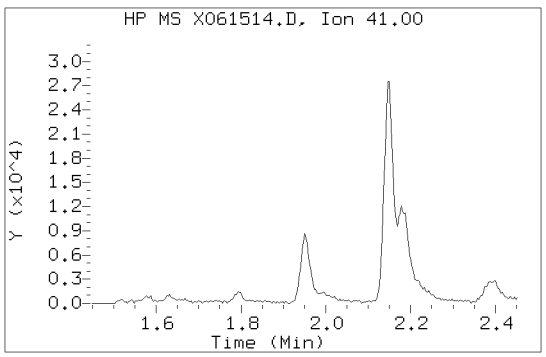
BEFORE

MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:43
s
zaid



AFTER

MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:43
s
zaid



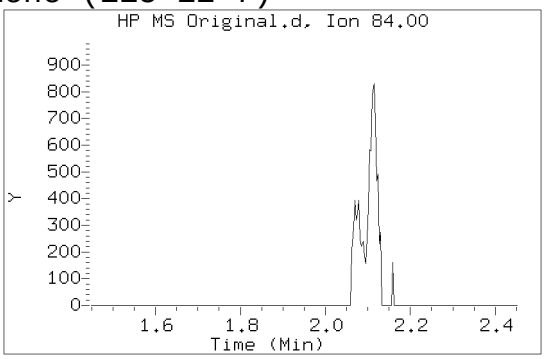
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061514.D
Inj Date : 15-JUN-2024 18:58
InstruID : voa7.i
LabSampID : VLCSW-240615

Isobutylene (115-11-7)

Reason Code:

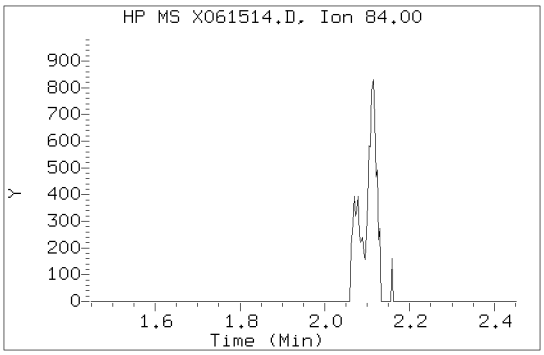
BEFORE

MASS
84
AREA
0
HEIGHT
0
12-Jul-2024
11:43
s
zaid



AFTER

MASS
84
AREA
0
HEIGHT
0
12-Jul-2024
11:43
s
zaid



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061515.D Page 1
Report Date: 12-Jul-2024 11:38

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061515.D
Lab Smp Id: VLCSDW-240615 Client Smp ID: VLCSDW-240615
Inj Date : 15-JUN-2024 19:21
Operator : AP Inst ID: voa7.i
Smp Info : VLCSDW-240615;VLCSDW-240615;3;;LCSD
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240615.b\8260W.m
Meth Date : 12-Jul-2024 11:38 voa7.i Quant Type: ISTD
Cal Date : 15-JUN-2024 17:04 Cal File: X061510.D
Als bottle: 14 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	5.129	5.133	(1.000)	134840	50.0000	
2 Dichlorodifluoromethane	85	1.297	1.294	(0.253)	27267	18.8538	18.85
159 Dichlorofluoromethane	67	2.075	2.075	(0.405)	51945	18.4993	18.49
3 Chloromethane	50	1.451	1.448	(0.283)	40936	19.0975	19.09
4 Propionitrile	54	4.670	4.670	(0.910)	40151	214.738	214.73
5 Vinyl Chloride	62	1.535	1.535	(0.299)	36731	19.2205	19.22
6 Bromomethane	94	1.808	1.808	(0.353)	21849	20.4869	20.48
7 Chloroethane	64	1.898	1.895	(0.370)	23177	19.8039	19.80
8 Trichlorofluoromethane	101	2.114	2.113	(0.412)	48409	19.4405	19.44
9 Acrolein	56	2.509	2.519	(0.489)	1898	49.9590	49.95
10 Acetone	43	2.667	2.667	(0.520)	21500	42.5747	42.57
11 1,1-Dichloroethene	96	2.589	2.593	(0.505)	27396	19.8407	19.84
12 Isobutyl Alcohol	43	5.573	5.573	(1.086)	97366	423.803	423.80
13 Acetonitrile	39	2.956	2.962	(0.576)	42300	198.764	198.76
14 Allyl Chloride	41	2.959	2.956	(0.577)	89248	20.0242	20.02
15 Iodomethane	142	2.741	2.744	(0.534)	66808	40.2823	40.28
16 Acrylonitrile	53	3.380	3.380	(0.659)	20957	43.7020	43.70
17 Methylene Chloride	84	3.094	3.094	(0.603)	33893	20.2346	20.23
18 Methyl tert-butyl ether	73	3.380	3.380	(0.659)	74807	19.7015	19.70
19 Carbon Disulfide	76	2.795	2.795	(0.545)	165778	38.5787	38.57

20 trans-1,2-Dichloroethene	96	3.374	3.374 (0.658)	28106	19.3362	19.33
21 Vinyl Acetate	43	4.657	4.657 (0.908)	35545	44.8319	44.83

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
22	1,1-Dichloroethane	63	3.863	3.863	(0.753)	57588	18.1667	18.16
23	Chloroprene	53	3.966	3.965	(0.773)	48078	19.0732	19.07
24	2-Butanone	43	4.589	4.589	(0.895)	28578	42.3581	42.35
25	Methacrylonitrile	41	2.149	2.149	(0.419)	44043	19.5980	19.59
26	2,2-Dichloropropane	77	4.531	4.535	(0.883)	48026	17.8482	17.84
27	cis-1,2-Dichloroethene	96	4.544	4.544	(0.886)	32448	19.8384	19.83
28	Chloroform	83	4.908	4.901	(0.957)	58032	19.7399	19.73
29	Bromochloromethane	128	4.805	4.808	(0.937)	15873	20.0076	20.00
$ 30	Dibromofluoromethane	113	5.072	5.072	(0.989)	73445	51.0926	51.09
31	1,1,1-Trichloroethane	97	5.072	5.075	(0.989)	47956	18.9461	18.94
32	1,1-Dichloropropene	75	5.245	5.245	(0.896)	42717	19.2075	19.20
33	1,2-Dichloroethane	62	5.493	5.490	(0.938)	48611	19.4439	19.44
34	Carbon Tetrachloride	117	5.232	5.236	(0.894)	39781	18.2142	18.21
$ 35	1,2-Dichloroethane-d4	65	5.416	5.416	(1.056)	98527	51.3704	51.37
* 36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	227658	50.0000	
37	Benzene	78	5.457	5.457	(0.932)	120397	19.5437	19.54
38	Trichloroethene	130	6.088	6.088	(1.040)	30603	19.4285	19.42
39	Bromodichloromethane	83	6.570	6.570	(1.122)	44516	17.5637	17.56
40	Methyl Methacrylate	41	6.432	6.432	(1.254)	31550	20.8659	20.86
41	2-Chloroethylvinyl ether	63	6.856	6.853	(1.171)	26772	43.4523	43.45
42	1,2-Dichloropropane	63	6.306	6.309	(1.077)	34244	19.3478	19.34
43	2-Nitropropane	43	6.801	6.798	(1.326)	9991	20.8639	20.86
44	Dibromomethane	93	6.416	6.416	(1.096)	19298	19.3184	19.31
45	4-Methyl-2-Pentanone	43	7.126	7.126	(0.842)	68888	43.4395	43.43
46	cis-1,3-Dichloropropene	75	6.975	6.978	(1.192)	45522	18.5092	18.50
* 47	Chlorobenzene-d5	117	8.467	8.467	(1.000)	207048	50.0000	
$ 48	Toluene-d8	98	7.207	7.203	(0.851)	262400	52.4946	52.49
49	Ethyl Methacrylate	69	8.043	8.039	(1.374)	40158	20.5480	20.54
50	Toluene	91	7.264	7.264	(0.858)	125366	20.1501	20.15
51	trans-1,3-Dichloropropene	75	6.975	6.978	(1.192)	45522	18.5092	18.50
52	2-Hexanone	43	7.862	7.859	(0.929)	44594	40.8292	40.82
53	1,1,2-Trichloroethane	83	7.637	7.637	(0.902)	24745	21.0425	21.04
54	1,3-Dichloropropane	76	7.782	7.782	(0.919)	51070	20.2379	20.23
55	Dibromochloromethane	129	7.975	7.978	(0.942)	31980	18.8576	18.85
56	Tetrachloroethene	164	7.737	7.737	(0.914)	23605	20.0747	20.07
57	1,2-Dibromoethane	107	8.071	8.071	(0.953)	25297	20.2063	20.20
58	1-Chlorohexane	55	8.470	8.467	(1.447)	32597	19.3498	19.34
59	Chlorobenzene	112	8.493	8.493	(1.003)	82669	20.2675	20.26
60	1,1,1,2-Tetrachloroethane	131	8.563	8.563	(1.011)	27860	19.6811	19.68
61	Ethylbenzene	106	8.583	8.583	(1.014)	42631	20.2987	20.29
62	m,p-Xylenes	106	8.682	8.682	(1.025)	107444	40.8518	40.85
63	o-Xylene	106	9.023	9.023	(1.066)	52289	20.4865	20.48
64	Styrene	104	9.039	9.039	(1.068)	92782	20.6427	20.64
66	Bromoform	173	9.203	9.206	(1.087)	20200	18.8903	18.89
67	Isopropylbenzene	105	9.338	9.338	(1.103)	132483	20.2515	20.25
68	1,1,2,2-Tetrachloroethane	83	9.608	9.608	(0.919)	37901	21.5039	21.50
$ 69	4-Bromofluorobenzene	95	9.473	9.473	(1.119)	103767	51.8788	51.87
* 70	1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	103396	50.0000	
71	1,2,3-Trichloropropane	75	9.647	9.650	(0.923)	42171	21.1567	21.15
72	trans-1,4-Dichloro-2-butene	53	9.660	9.660	(1.141)	8723	19.4410	19.44
73	n-Propylbenzene	91	9.689	9.689	(0.927)	157230	20.3831	20.38
74	Bromobenzene	156	9.605	9.605	(0.919)	35547	21.0582	21.05

75	1,3,5-Trimethylbenzene	105	9.840	9.837 (0.941)	114896	20.8133	20.81
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	97432	20.5204	20.52

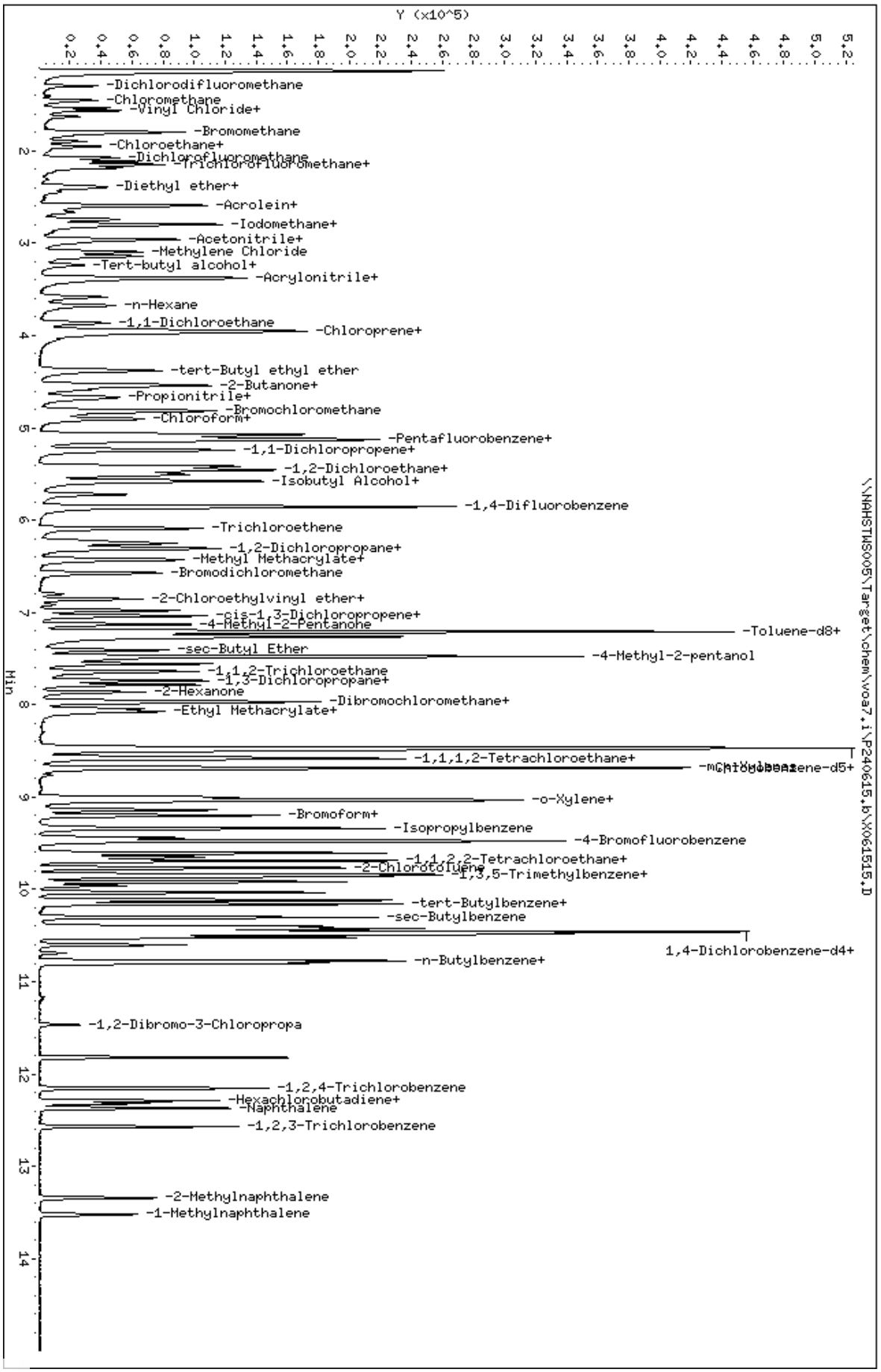
Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061515.D Page 3
Report Date: 12-Jul-2024 11:38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
77	4-Chlorotoluene	91	9.859	9.859	(0.943)	116057	20.7738	20.77
78	tert-Butylbenzene	119	10.116	10.116	(0.967)	96071	20.9850	20.98
79	1,2,4-Trimethylbenzene	105	10.158	10.158	(0.971)	115153	20.9141	20.91
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	132280	21.0995	21.09
82	p-Isopropyltoluene	119	10.425	10.425	(0.997)	116098	20.5531	20.55
83	1,3-Dichlorobenzene	146	10.403	10.403	(0.995)	64985	20.9394	20.93
84	1,4-Dichlorobenzene	146	10.480	10.476	(1.002)	67242	21.0761	21.07
87	n-Butylbenzene	91	10.772	10.772	(1.030)	108455	20.3973	20.39
88	1,2-Dichlorobenzene	146	10.798	10.795	(1.033)	62476	20.9173	20.91
89	1,2-Dibromo-3-Chloropropane	75	11.464	11.464	(1.096)	5863	19.1878	19.18
90	1,2,4-Trichlorobenzene	180	12.155	12.155	(1.162)	39069	20.4125	20.41
91	Hexachlorobutadiene	225	12.290	12.287	(1.175)	19161	20.8569	20.85
92	Naphthalene	128	12.370	12.367	(1.183)	87649	19.7615	19.76
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	31857	19.7315	19.73
135	1,4-Dioxane	88	6.448	6.448	(1.257)	5318	480.039	480.03(A)
146	Methyl acetate	43	2.667	2.667	(0.520)	20122	17.9048	17.90(M)
138	Freon TF	101	2.596	2.589	(0.506)	26261	19.2934	19.29
139	Diethyl ether	59	2.380	2.377	(0.464)	20833	21.1932	21.19
140	1,3-Butadiene	54	1.564	1.564	(0.305)	13841	16.3654	16.36
141	Cyclohexane	56	5.110	5.113	(0.996)	46419	18.9655	18.96
147	Methylcyclohexane	83	6.252	6.252	(1.068)	34193	16.4899	16.48
132	n-Butanol	56	6.252	6.248	(1.219)	12655	294.743	294.74
131	Methyl Acrylate	55	4.689	4.689	(0.914)	32942	21.5515	21.55
133	Ethyl Acrylate	55	6.223	6.223	(1.213)	72293	19.0544	19.05
136	n-Hexane	57	3.676	3.673	(0.717)	30241	18.0293	18.02
142	Tetrahydrofuran	42	4.859	4.863	(0.947)	10700	43.3562	43.35
148	Tert-butyl alcohol	59	3.239	3.239	(0.631)	39128	393.207	393.20
149	Isopropyl alcohol	45	2.814	2.814	(0.549)	33066	469.671	469.67
151	4-Methyl-2-pentanol	45	7.473	7.473	(0.883)	224457	409.704	409.70
166	1,2,3-Trimethylbenzene	105	10.518	10.518	(1.006)	97930	18.3888	18.38
167	Ethanol	45	2.310	2.310	(0.450)	5700	485.417	485.41
172	tert-Butyl formate	59	3.239	3.239	(0.631)	39128	45.5767	45.57
173	3,3-Dimethyl-1-butanol	57	8.043	8.042	(0.950)	56991	432.654	432.65
174	tert-Amyl methyl ether	73	5.580	5.580	(1.088)	85176	20.5842	20.58
175	tert-Butyl ethyl ether	59	4.380	4.377	(0.854)	90661	19.7186	19.71
157	2-Methylnaphthalene	142	13.345	13.341	(1.276)	35676	22.1003	22.10
156	Diisopropyl ether	45	3.953	3.949	(0.771)	103488	19.3277	19.32
171	1-Methylnaphthalene	142	13.521	13.525	(1.293)	30584	21.4286	21.42
130	Ethyl Acetate	43	3.946	3.946	(0.769)	186591	19.9515	19.95
176	tert-Amyl alcohol	59	5.512	5.509	(1.075)	35988	437.887	437.88(A)
160	Epichlorohydrin	57	6.914	6.914	(1.181)	7664	78.4329	78.43
161	Butyl acrylate	55	8.997	8.997	(1.063)	71545	20.4947	20.49
182	Isobutylene	56	1.950	1.953	(0.380)	3609	16.9152	16.91(AM)
183	Isopropyl Acetate	43	5.573	5.573	(0.952)	97366	20.9567	20.95(A)
184	n-Amyl acetate	43	9.194	9.194	(1.086)	65002	19.4623	19.46(A)
185	Acetaldehyde	44	1.628	1.628	(0.317)	22177	99.8741	99.87(A)
186	n-Butyl acetate	43	7.969	7.969	(0.941)	56338	22.4802	22.48(A)
187	2-Etyhlhexyl Acrylate	55	12.316	12.319	(1.178)	21422	19.2717	19.27(A)
188	Tetrahydrothiophene	60	7.956	7.956	(0.940)	34462	20.9699	20.96(A)
189	sec-Butyl Ether	57	7.409	7.406	(0.875)	31338	21.3492	21.34(A)
190	Isoprene	39	2.403	2.396	(0.469)	9736	23.6903	23.69(A)
191	2-Chloropropene	41	2.149	2.149	(0.419)	44043	18.9863	18.98(A)

M	94 1,2-Dichloroethylene (total)	96		60554	39.1746	39.17
M	95 Xylenes (total)	106		159733	61.3383	61.33

QC Flag Legend

A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061515.D
Date : 15-JUN-2024 19:21
Client ID: VLCSDW-240615
Sample Info: VLCSDW-240615;VLCSDW-240615;3;;LCSD
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7.i
Operator: AP
Column diameter: 0.18

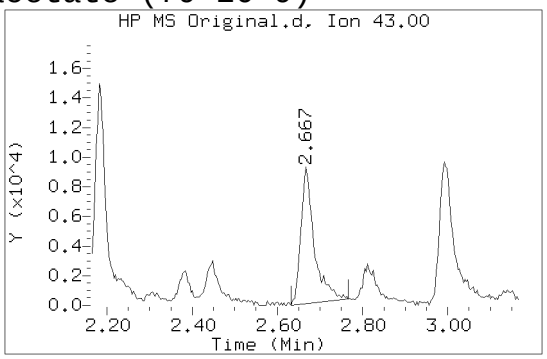
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061515.D
Inj Date : 15-JUN-2024 19:21
InstruID : voa7.i
LabSampID : VLCSDW-240615

Methyl acetate (79-20-9)

Reason Code:

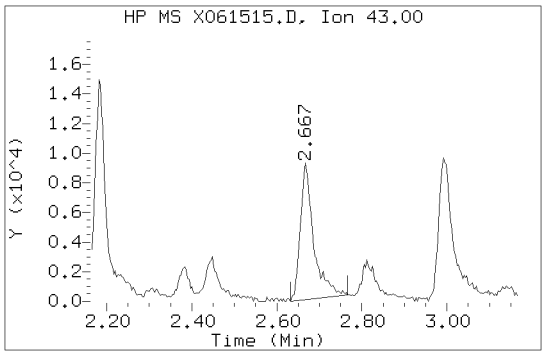
BEFORE

MASS
43
AREA
20122
HEIGHT
9240
12-Jul-2024
11:38
s
zaid



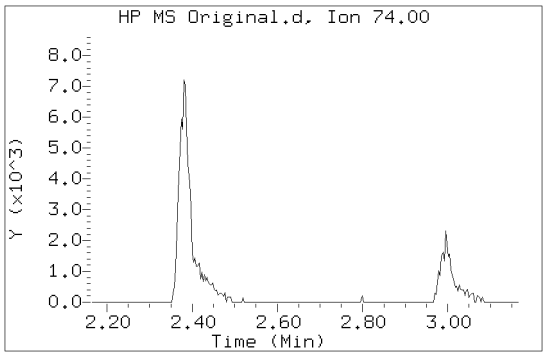
AFTER

MASS
43
AREA
20122
HEIGHT
9240
12-Jul-2024
11:38
s
zaid



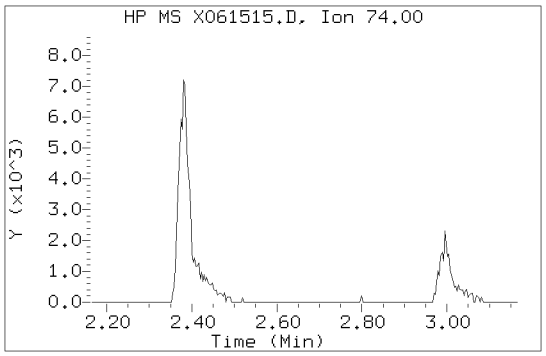
BEFORE

MASS
74
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
74
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid

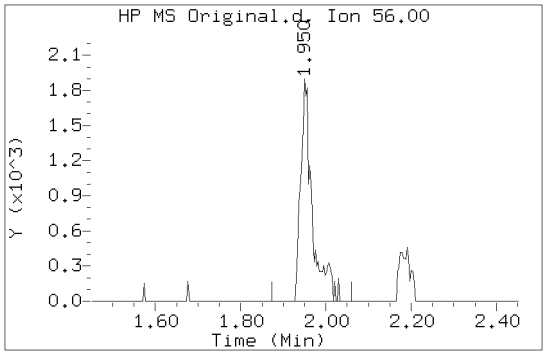


Isobutylene (115-11-7)

Reason Code:

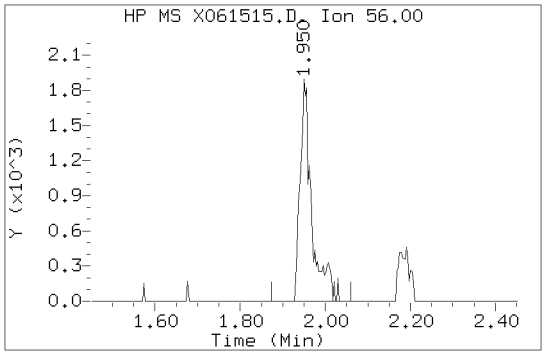
BEFORE

MASS
56
AREA
3609
HEIGHT
1898
12-Jul-2024
11:38
s
zaid



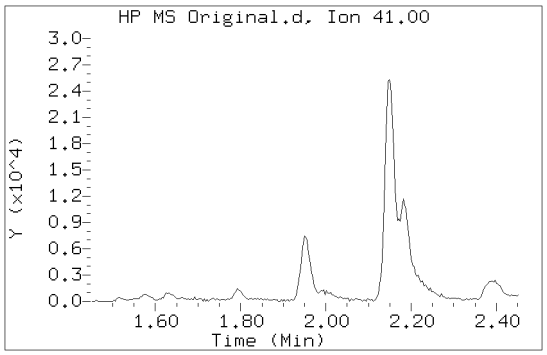
AFTER

MASS
56
AREA
3609
HEIGHT
1898
12-Jul-2024
11:38
s
zaid



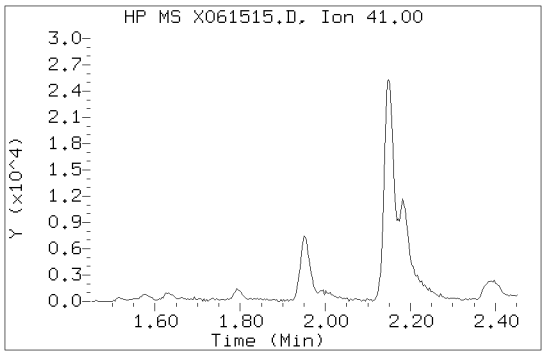
BEFORE

MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
41
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



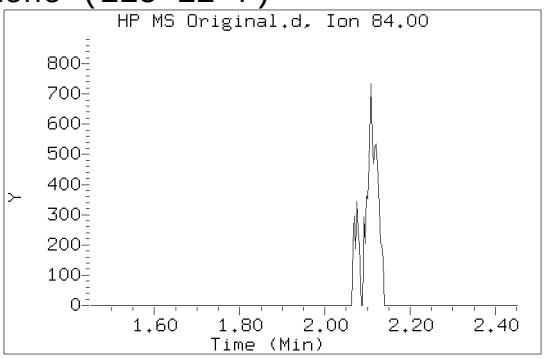
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061515.D
Inj Date : 15-JUN-2024 19:21
InstruID : voa7.i
LabSampID : VLCSDW-240615

Isobutylene (115-11-7)

Reason Code:

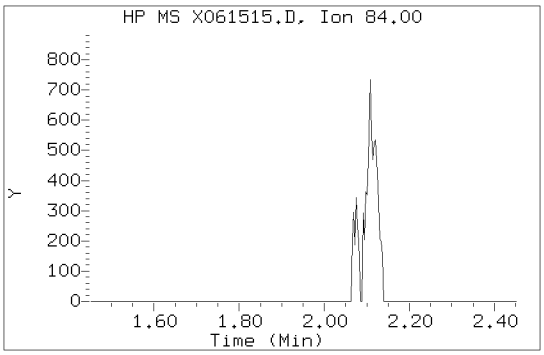
BEFORE

MASS
84
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



AFTER

MASS
84
AREA
0
HEIGHT
0
12-Jul-2024
11:38
s
zaid



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061517.D Page 1
Report Date: 12-Jul-2024 11:39

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061517.D
Lab Smp Id: VBLKW-240615 Client Smp ID: VBLKW-240615
Inj Date : 15-JUN-2024 20:07
Operator : AP Inst ID: voa7.i
Smp Info : VBLKW-240615;VBLKW-240615;3;;BLANK
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240615.b\8260W.m
Meth Date : 12-Jul-2024 11:38 voa7.i Quant Type: ISTD
Cal Date : 15-JUN-2024 17:04 Cal File: X061510.D
Als bottle: 16 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

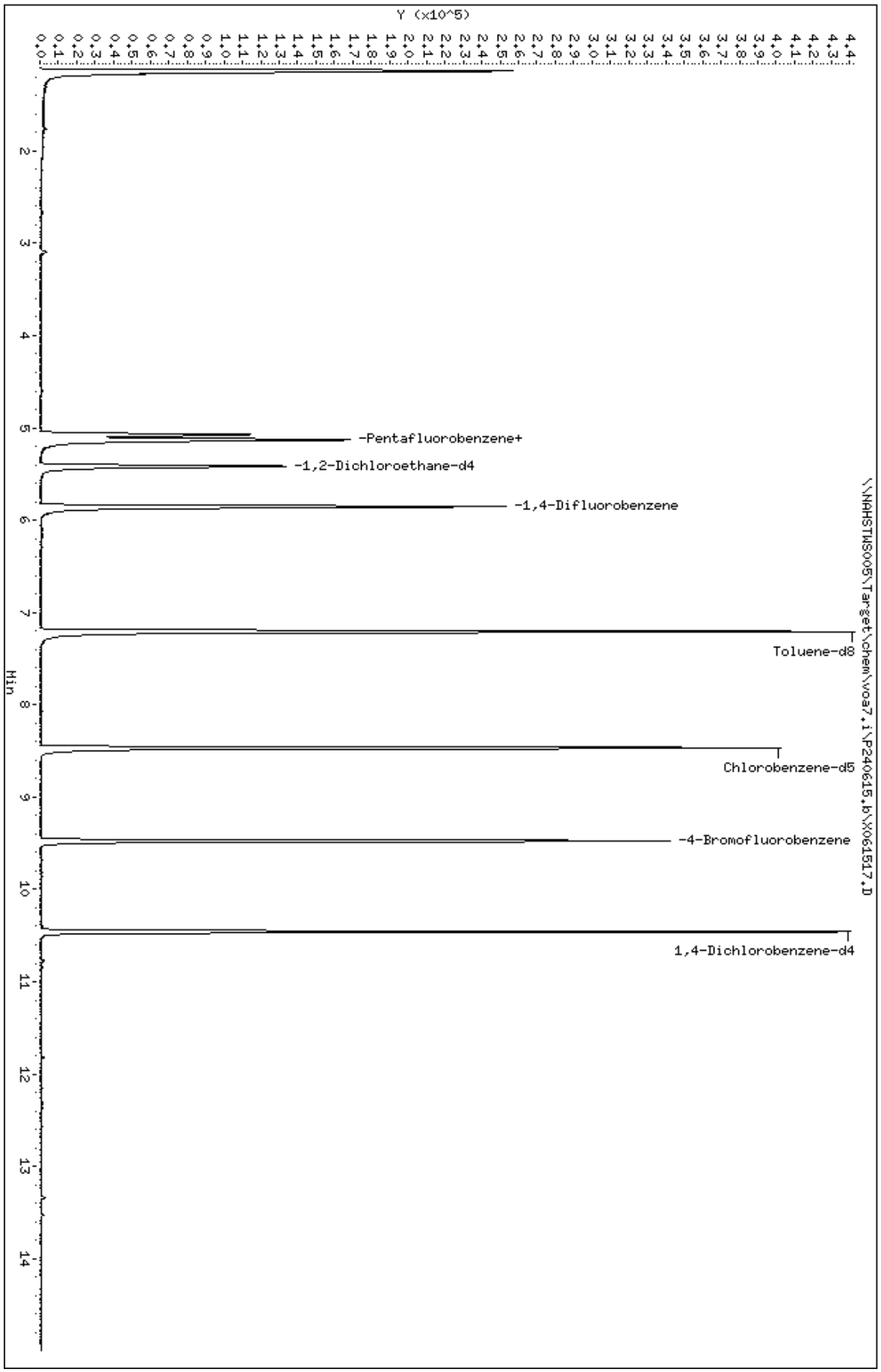
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	5.130	5.133	(1.000)	129701	50.0000	
$ 30 Dibromofluoromethane	113	5.072	5.072	(0.989)	79182	57.4329	57.43
$ 35 1,2-Dichloroethane-d4	65	5.416	5.416	(1.056)	106186	57.7512	57.75
* 36 1,4-Difluorobenzene	114	5.853	5.853	(1.000)	216943	50.0000	
* 47 Chlorobenzene-d5	117	8.467	8.467	(1.000)	207060	50.0000	
$ 48 Toluene-d8	98	7.207	7.203	(0.851)	278820	55.8582	55.85(M)
$ 69 4-Bromofluorobenzene	95	9.473	9.473	(1.119)	109714	54.9723	54.97
* 70 1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	106137	50.0000	

QC Flag Legend

M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061517.D
Date : 15-JUN-2024 20:07
Client ID: VBLKW-240615
Sample Info: VBLKW-240615;VBLKW-240615;3;;BLANK
Purge Volume: 5.0
Column phase: DB624

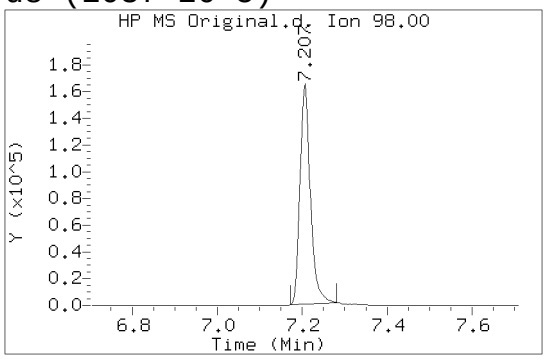
Instrument: voa7.i
Operator: AP
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061517.D
Inj Date : 15-JUN-2024 20:07
InstruID : voa7.i
LabSampID : VBLKW-240615

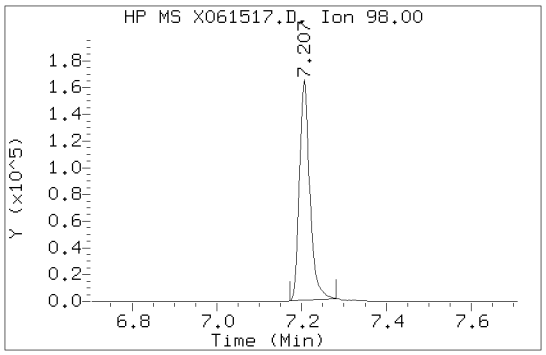
Toluene-d8 (2037-26-5)

Reason Code:

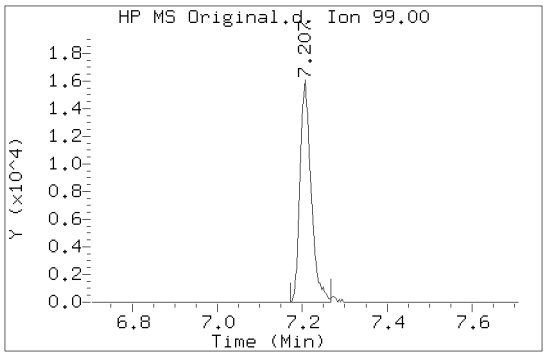
BEFORE
MASS
98
AREA
278820
HEIGHT
165042
12-Jul-2024
11:38
s
zaid



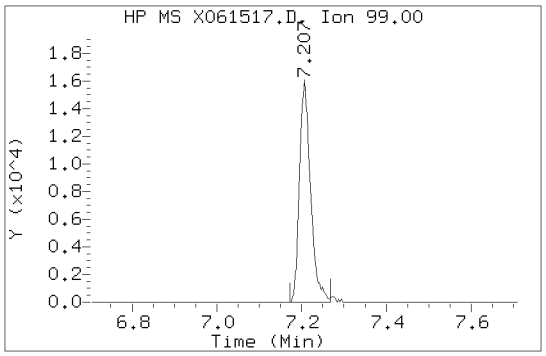
AFTER
MASS
98
AREA
278820
HEIGHT
165042
12-Jul-2024
11:38
s
zaid



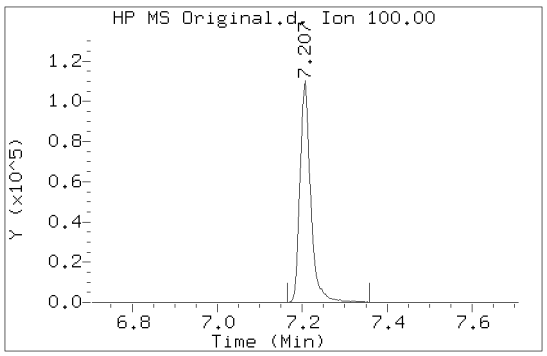
BEFORE
MASS
99
AREA
29071
HEIGHT
16085
12-Jul-2024
11:38
s
zaid



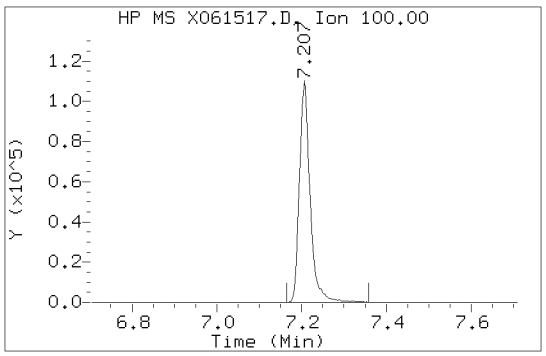
AFTER
MASS
99
AREA
29071
HEIGHT
16085
12-Jul-2024
11:38
s
zaid



BEFORE
MASS
100
AREA
191935
HEIGHT
110280
12-Jul-2024
11:38
s
zaid



AFTER
MASS
100
AREA
191935
HEIGHT
110280
12-Jul-2024
11:38
s
zaid



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061520.D Page 1
Report Date: 15-Jul-2024 11:35

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061520.D
Lab Smp Id: HS24060434-01
Inj Date : 15-JUN-2024 21:15
Operator : AP   Inst ID: voa7.i
Smp Info : HS24060434-01
Misc Info : HS220328V7;WATER;0;250;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240615.b\8260W.m
Meth Date : 15-Jul-2024 11:32 s.zaid   Quant Type: ISTD
Cal Date : 15-JUN-2024 16:41   Cal File: X061509.D
Als bottle: 19
Dil Factor: 250.00000
Integrator: HP RTE   Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

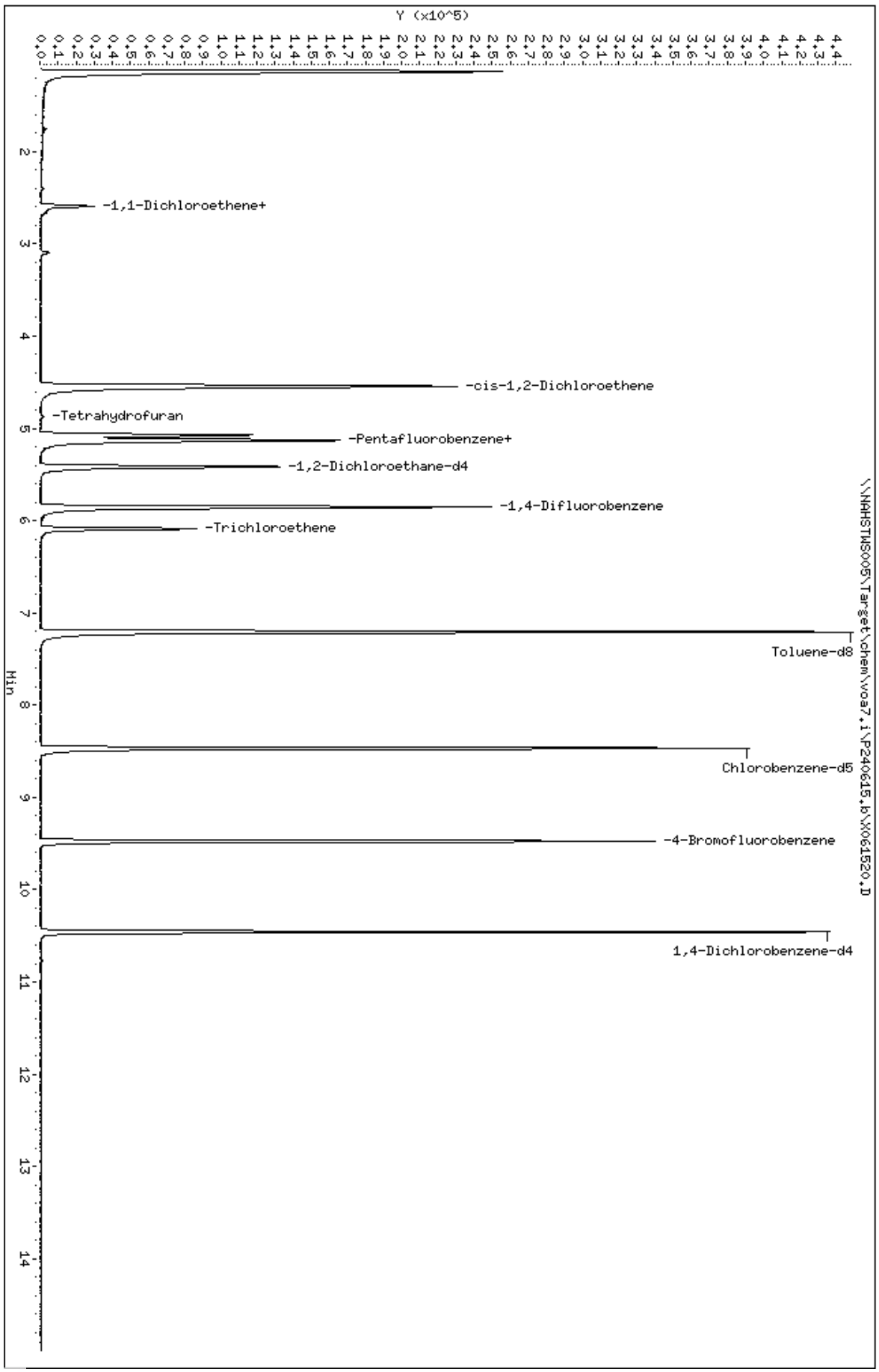
Name	Value	Description
DF	250.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	1 Pentafluorobenzene	168	5.133	5.133	(1.000)	126561	50.0000	
	11 1,1-Dichloroethene	96	2.589	2.589	(0.505)	724	0.71078	177.69(a)
	27 cis-1,2-Dichloroethene	96	4.548	4.544	(0.886)	124002	82.4059	20601.47
$	30 Dibromofluoromethane	113	5.075	5.072	(0.989)	80552	59.9371	59.93(R)
$	35 1,2-Dichloroethane-d4	65	5.416	5.412	(1.055)	102336	57.0173	57.01(M)
*	36 1,4-Difluorobenzene	114	5.853	5.853	(1.000)	212945	50.0000	
	38 Trichloroethene	130	6.088	6.088	(1.040)	28799	19.5474	4886.84
*	47 Chlorobenzene-d5	117	8.467	8.467	(1.000)	202034	50.0000	
$	48 Toluene-d8	98	7.203	7.203	(0.851)	291213	59.8835	59.88(R)
$	69 4-Bromofluorobenzene	95	9.473	9.473	(1.119)	106026	54.4252	54.42
*	70 1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	100331	50.0000	
	138 Freon TF	101	2.593	2.593	(0.505)	13607	10.7847	2696.18
	142 Tetrahydrofuran	42	4.863	4.859	(0.947)	916	5.29544	1323.86
M	94 1,2-Dichloroethylene (total)	96				124002	82.4059	20601.47

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa7,i\P240615,b\X061520.D
Date : 15-JUN-2024 21:15
Client ID:
Sample Info: HS24060434-01
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7,i
Operator: AP
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061520.D Page 2

Date : 15-JUN-2024 21:15

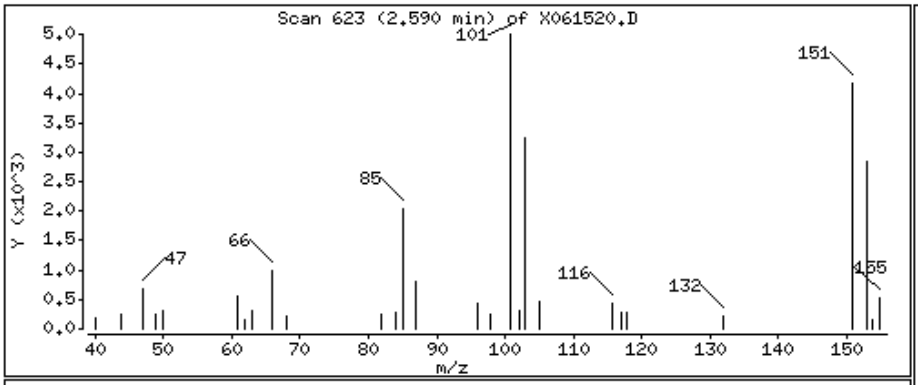
Client ID: Instrument: voa7.i

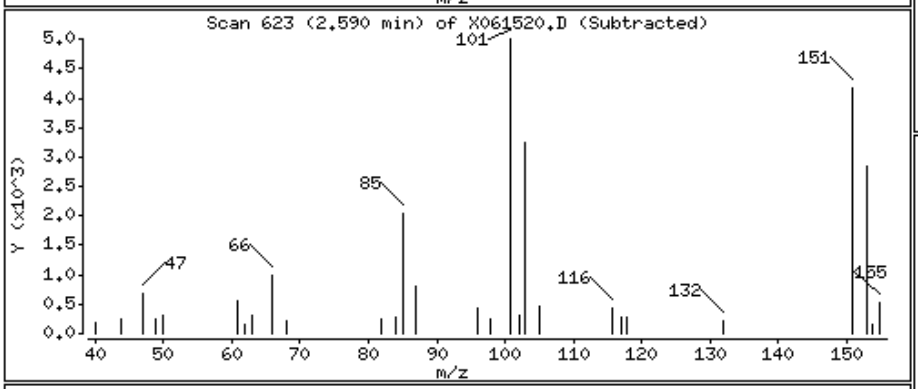
Sample Info: HS24060434-01

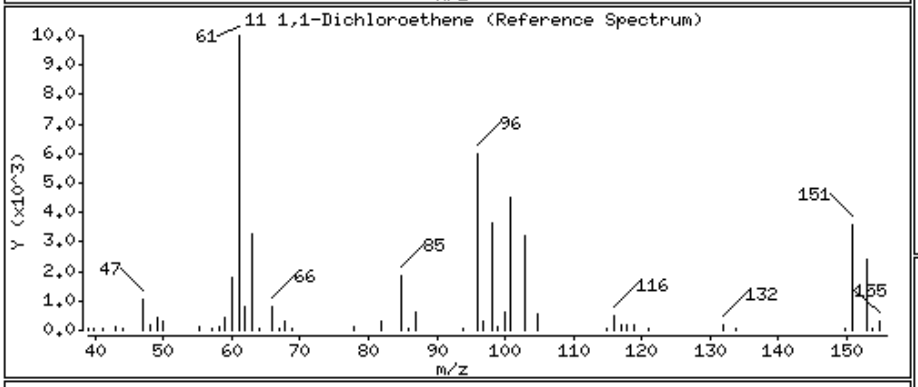
Purge Volume: 5.0 Operator: AP

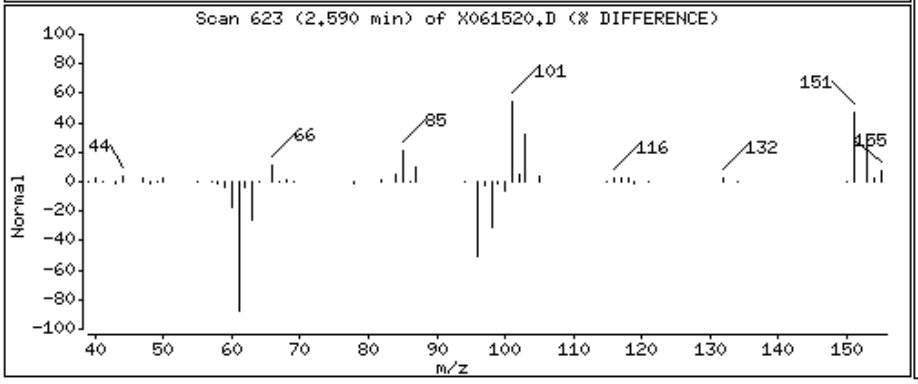
Column phase: DB624 Column diameter: 0.18

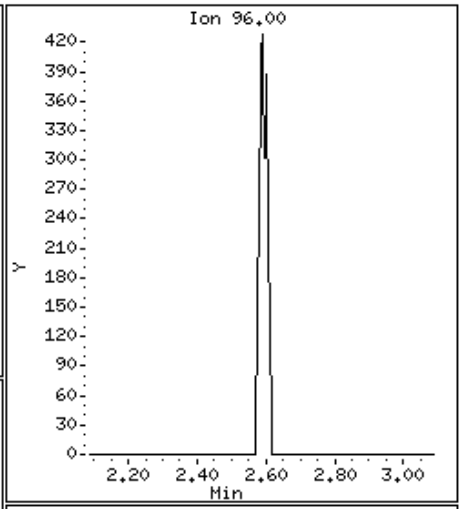
11 1,1-Dichloroethene Concentration: 177.69 ug/l

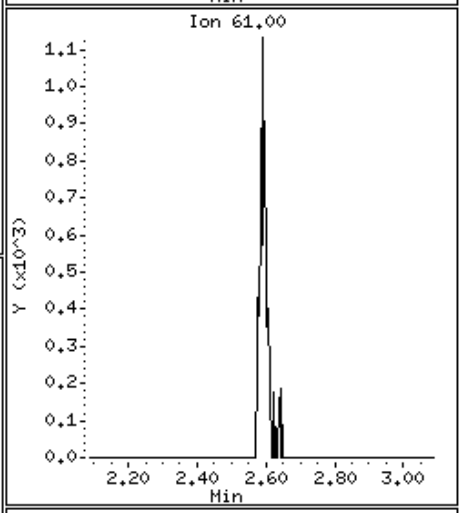


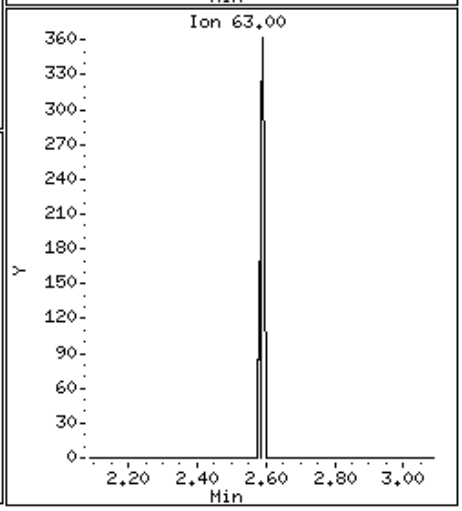












Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061520.D Page 3

Date : 15-JUN-2024 21:15

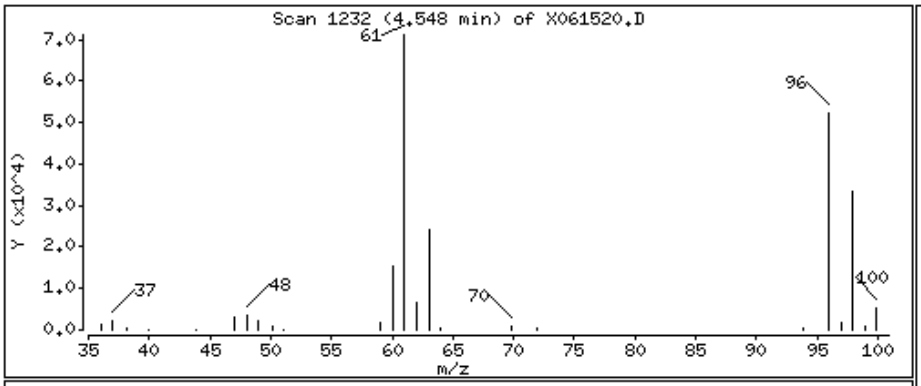
Client ID: Instrument: voa7.i

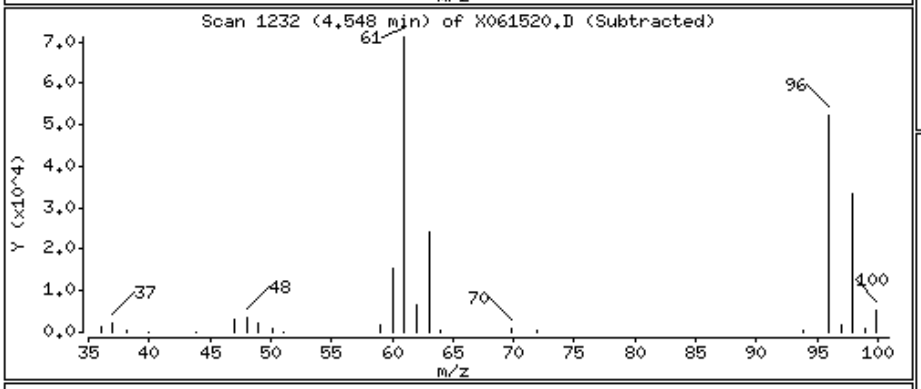
Sample Info: HS24060434-01

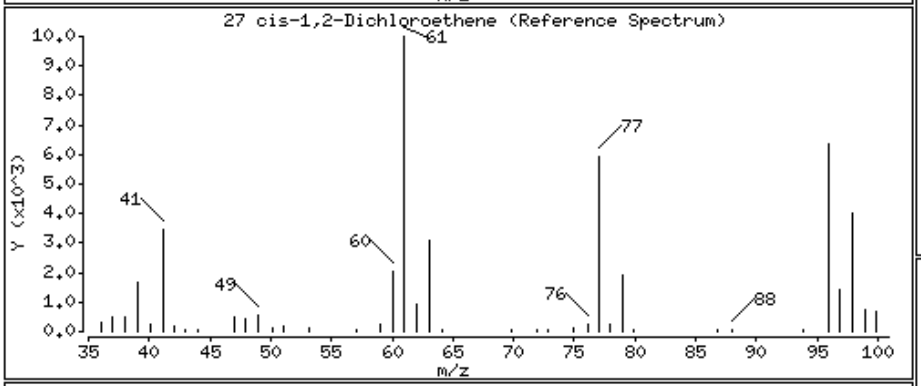
Purge Volume: 5.0 Operator: AP

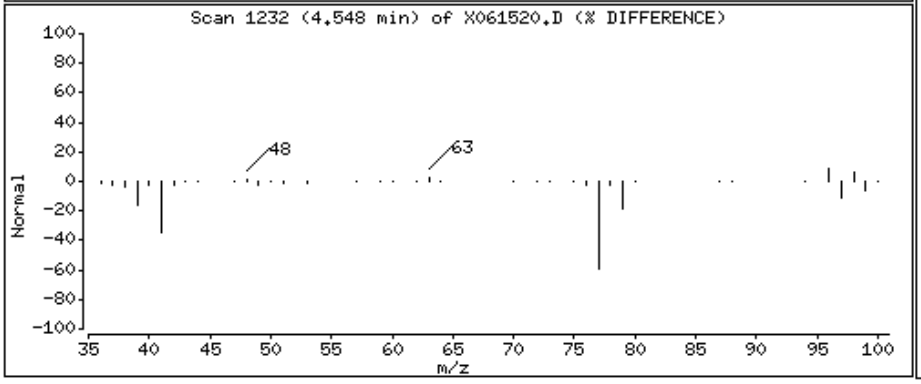
Column phase: DB624 Column diameter: 0.18

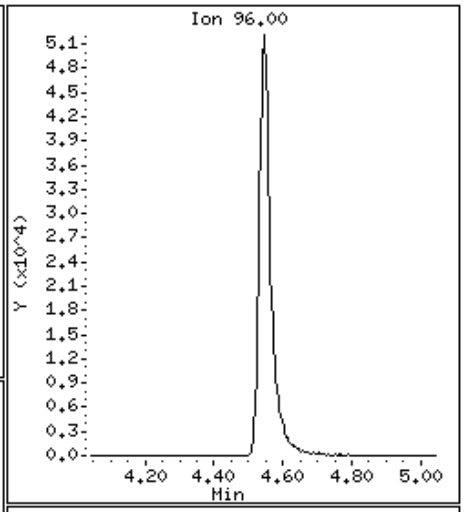
27 cis-1,2-Dichloroethene Concentration: 20601.47 ug/l

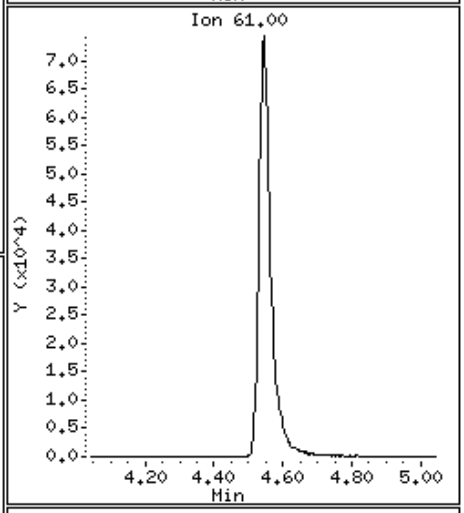


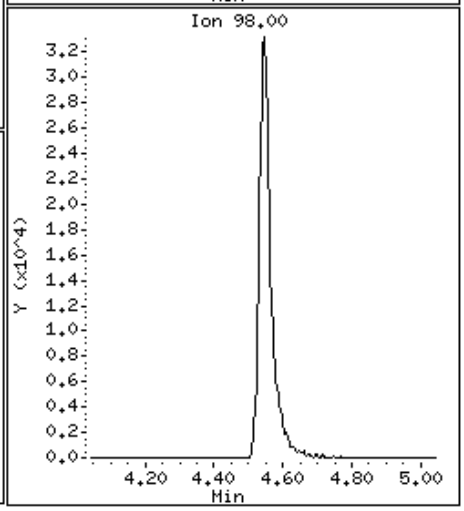












Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061520.D Page 4

Date : 15-JUN-2024 21:15

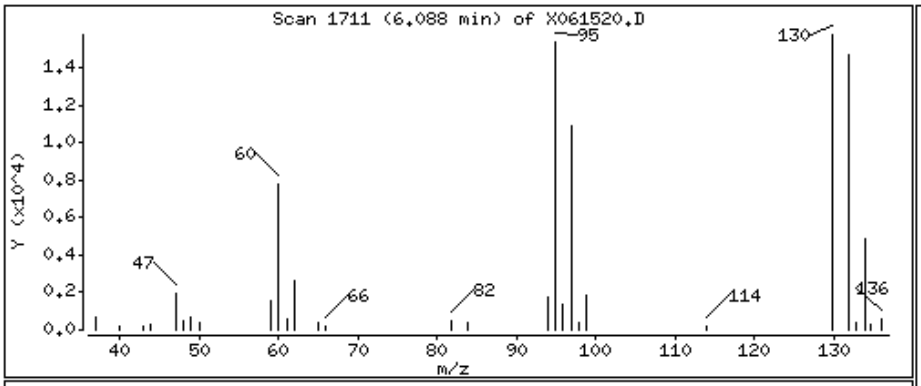
Client ID: Instrument: voa7.i

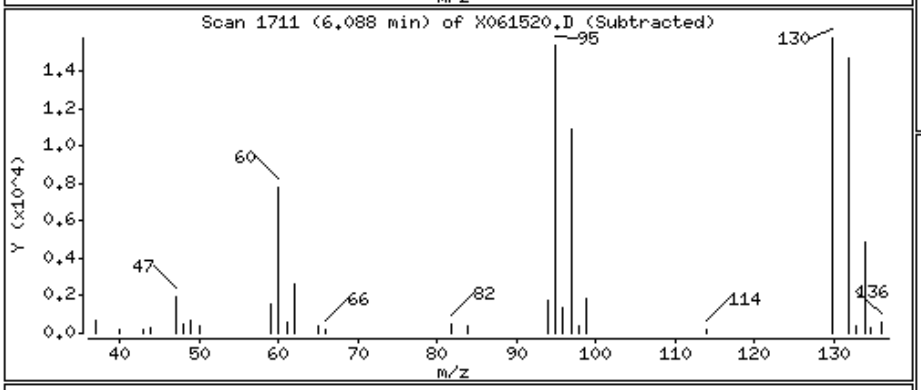
Sample Info: HS24060434-01

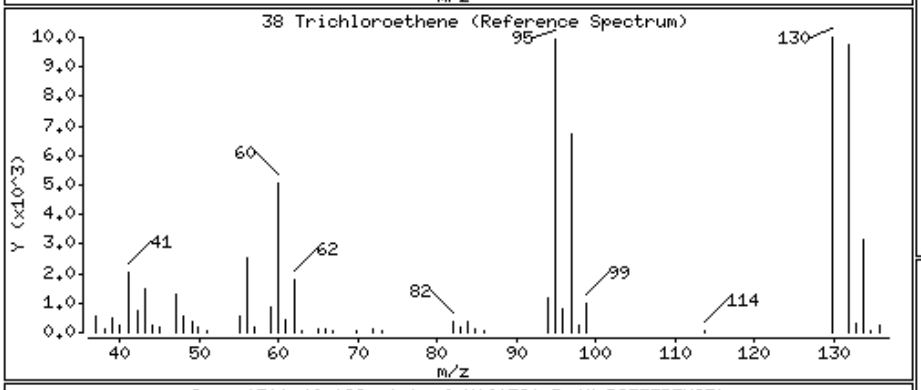
Purge Volume: 5.0 Operator: AP

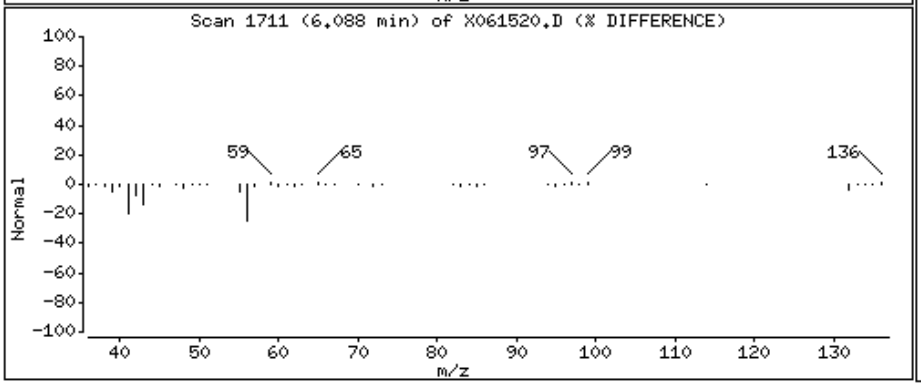
Column phase: DB624 Column diameter: 0.18

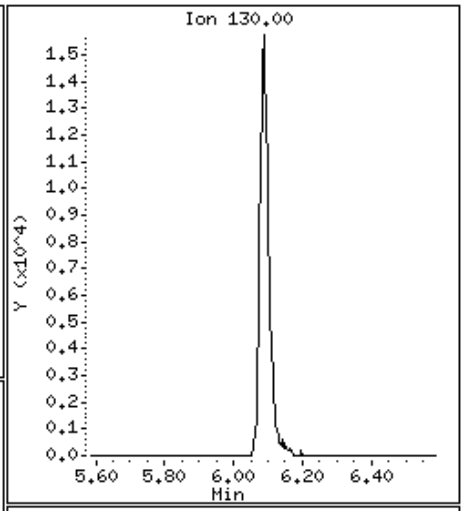
38 Trichloroethene Concentration: 4886.84 ug/l

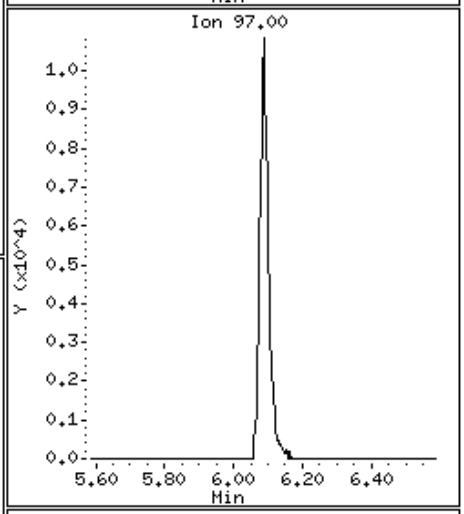


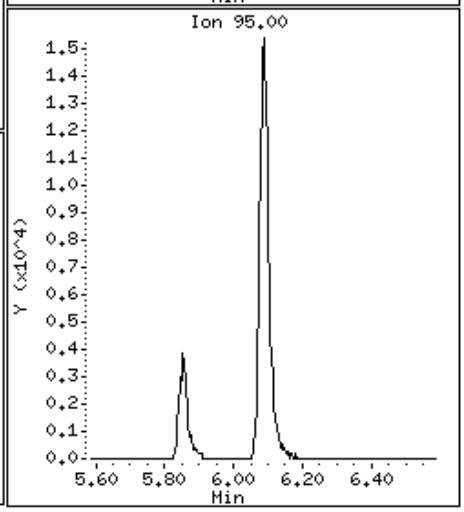












Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061520.D Page 5

Date : 15-JUN-2024 21:15

Client ID:

Instrument: voa7.i

Sample Info: HS24060434-01

Purge Volume: 5.0

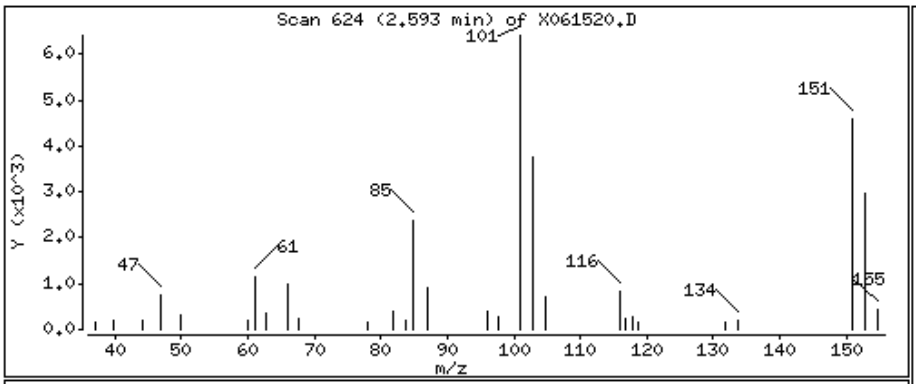
Operator: AP

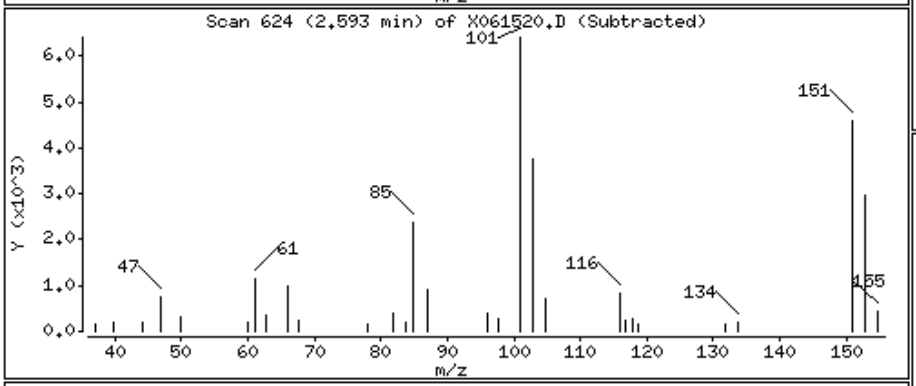
Column phase: DB624

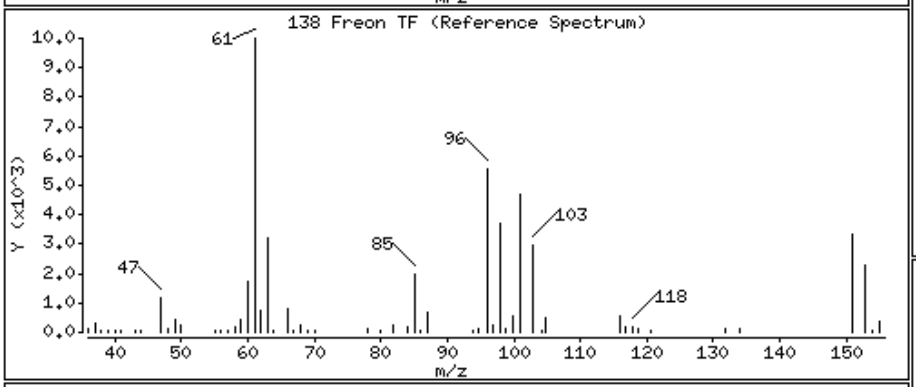
Column diameter: 0.18

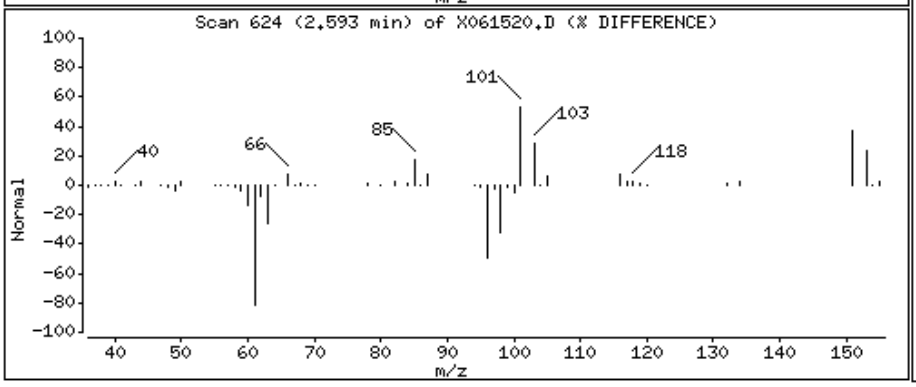
138 Freon TF

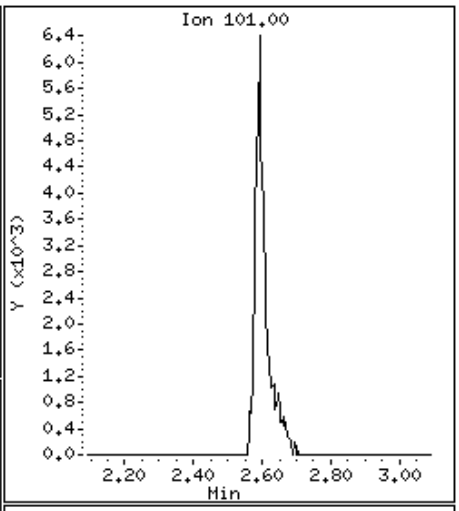
Concentration: 2696.18 ug/l

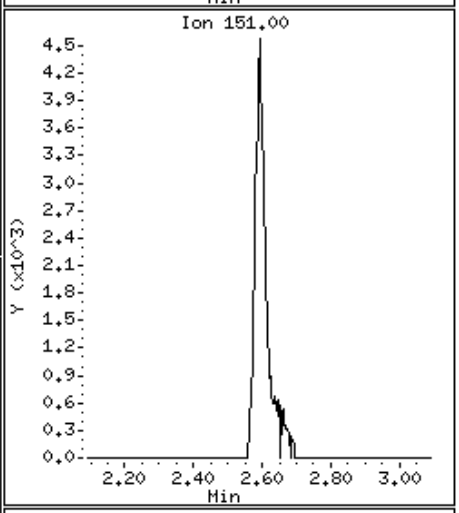


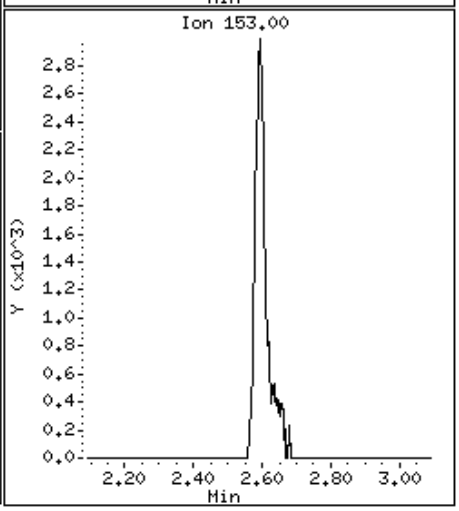












Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061520.D Page 6

Date : 15-JUN-2024 21:15

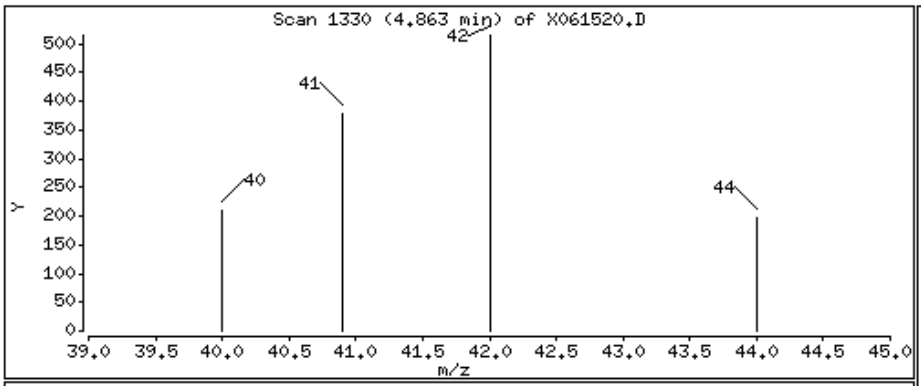
Client ID: Instrument: voa7.i

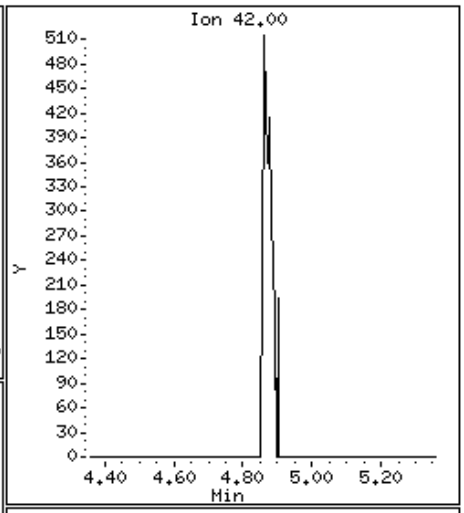
Sample Info: HS24060434-01

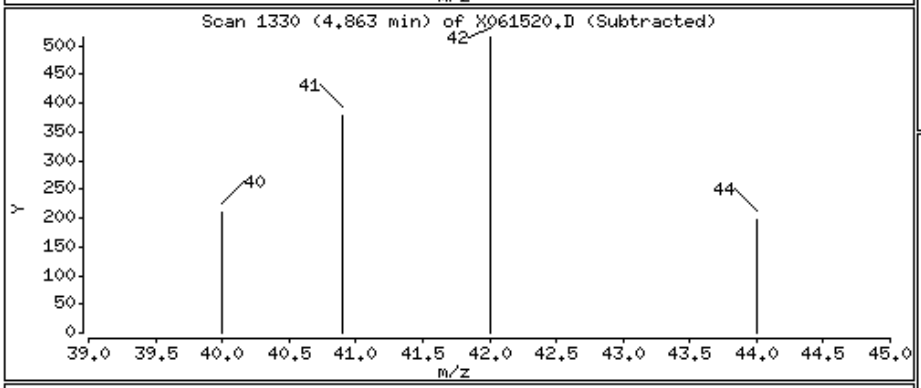
Purge Volume: 5.0 Operator: AP

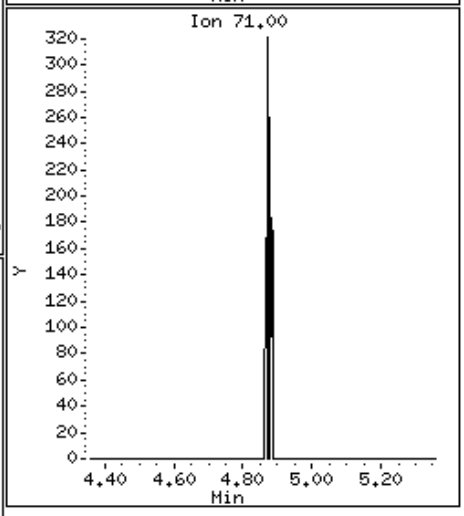
Column phase: DB624 Column diameter: 0.18

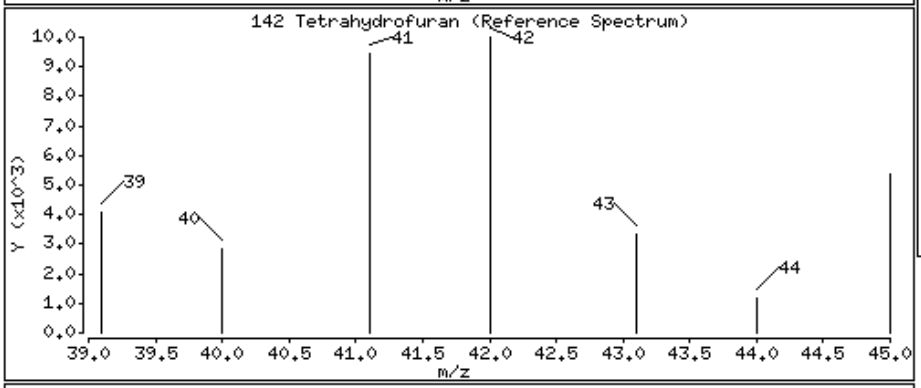
142 Tetrahydrofuran Concentration: 1323.86 ug/l

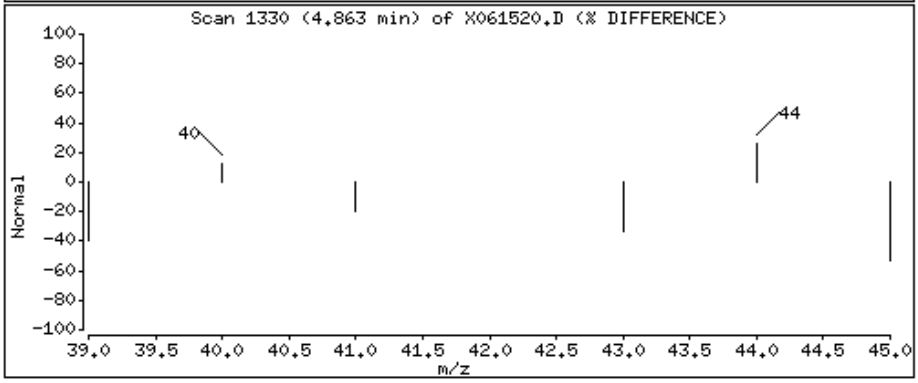












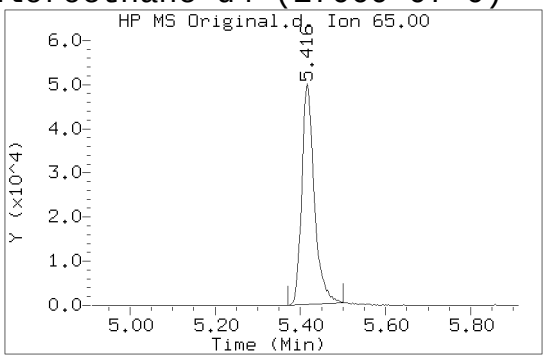
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061520.D
Inj Date : 15-JUN-2024 21:15
InstruID : voa7.i
LabSampID : HS24060434-01

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

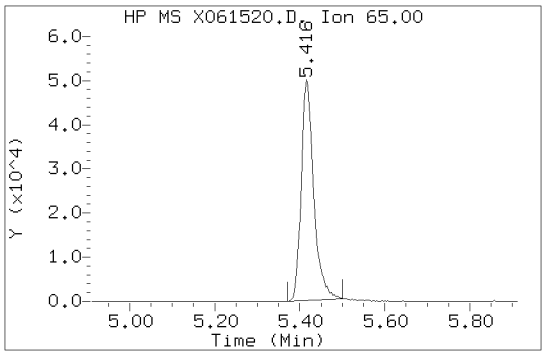
BEFORE

MASS
65
AREA
102336
HEIGHT
49996
15-Jul-2024
11:35
s
zaid



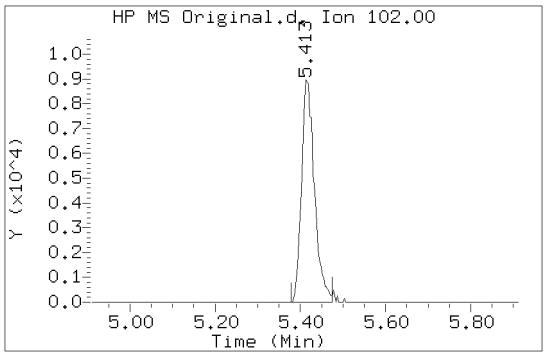
AFTER

MASS
65
AREA
102336
HEIGHT
49996
15-Jul-2024
11:35
s
zaid



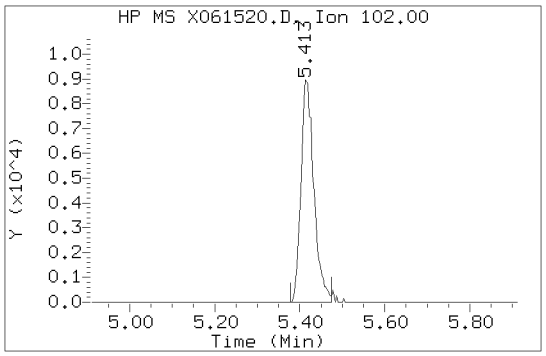
BEFORE

MASS
102
AREA
18965
HEIGHT
8961
15-Jul-2024
11:35
s
zaid



AFTER

MASS
102
AREA
18965
HEIGHT
8961
15-Jul-2024
11:35
s
zaid



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061522.D Page 1
Report Date: 12-Jul-2024 11:39

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061522.D
Lab Smp Id: HS24060434-01MS Client Smp ID: HS24060434-01MS
Inj Date : 15-JUN-2024 22:01
Operator : AP Inst ID: voa7.i
Smp Info : HS24060434-01MS;HS24060434-01MS;3;;MS
Misc Info : HS220328V7;WATER;0;250;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240615.b\8260W.m
Meth Date : 12-Jul-2024 11:38 voa7.i Quant Type: ISTD
Cal Date : 15-JUN-2024 17:04 Cal File: X061510.D
Als bottle: 21 QC Sample: MS
Dil Factor: 250.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	250.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	5.133	5.133	(1.000)	129511	50.0000	
2 Dichlorodifluoromethane	85	1.297	1.294	(0.253)	23363	16.7808	4195.21
159 Dichlorofluoromethane	67	2.075	2.075	(0.404)	53465	19.8241	4956.02
3 Chloromethane	50	1.448	1.448	(0.282)	35458	17.1262	4281.54
4 Propionitrile	54	4.670	4.670	(0.910)	33343	184.336	46083.98
5 Vinyl Chloride	62	1.535	1.535	(0.299)	32047	17.4470	4361.74
6 Bromomethane	94	1.808	1.808	(0.352)	17946	17.3184	4329.60
7 Chloroethane	64	1.898	1.895	(0.370)	19680	17.4596	4364.89
8 Trichlorofluoromethane	101	2.111	2.113	(0.411)	39803	16.5903	4147.56
9 Acrolein	56	2.519	2.519	(0.491)	820	22.4721	5618.01
10 Acetone	43	2.667	2.667	(0.520)	16165	32.0295	8007.36
11 1,1-Dichloroethene	96	2.593	2.593	(0.505)	23165	17.4855	4371.38
12 Isobutyl Alcohol	43	5.570	5.573	(1.085)	75975	340.807	85201.82
13 Acetonitrile	39	2.959	2.962	(0.577)	41011	200.696	50173.98
14 Allyl Chloride	41	2.959	2.956	(0.577)	81913	19.0921	4773.02
15 Iodomethane	142	2.741	2.744	(0.534)	49452	31.9265	7981.61
16 Acrylonitrile	53	3.381	3.380	(0.659)	17706	38.3304	9582.60
17 Methylene Chloride	84	3.091	3.094	(0.602)	27619	16.8927	4223.17
18 Methyl tert-butyl ether	73	3.381	3.380	(0.659)	66337	18.2118	4552.95
19 Carbon Disulfide	76	2.799	2.795	(0.545)	137551	33.2484	8312.10

20 trans-1,2-Dichloroethene	96	3.374	3.374 (0.657)	23416	16.7367	4184.18
21 Vinyl Acetate	43	4.660	4.657 (0.908)	25194	32.1999	8049.97

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061522.D Page 2
Report Date: 12-Jul-2024 11:39

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
22	1,1-Dichloroethane	63	3.860	3.863	(0.752)	48115	15.8029	3950.72
23	Chloroprene	53	3.966	3.965	(0.773)	40012	16.5220	4130.49
24	2-Butanone	43	4.593	4.589	(0.895)	21278	31.8736	7968.40
25	Methacrylonitrile	41	2.149	2.149	(0.419)	42928	19.8878	4971.95
26	2,2-Dichloropropane	77	4.535	4.535	(0.883)	38359	14.8422	3710.54
27	cis-1,2-Dichloroethene	96	4.545	4.544	(0.885)	147827	96.0889	24022.22
28	Chloroform	83	4.901	4.901	(0.955)	46853	16.4657	4116.41
29	Bromochloromethane	128	4.805	4.808	(0.936)	12098	15.7914	3947.85
$ 30	Dibromofluoromethane	113	5.072	5.072	(0.988)	79272	57.5862	57.58(R)
31	1,1,1-Trichloroethane	97	5.072	5.075	(0.988)	39877	16.4017	4100.41
32	1,1-Dichloropropene	75	5.249	5.245	(0.897)	34630	16.5551	4138.78
33	1,2-Dichloroethane	62	5.496	5.490	(0.939)	37384	15.8015	3950.38
34	Carbon Tetrachloride	117	5.233	5.236	(0.894)	32739	16.0368	4009.19
$ 35	1,2-Dichloroethane-d4	65	5.413	5.416	(1.054)	106756	58.1581	58.15
* 36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	214351	50.0000	
37	Benzene	78	5.458	5.457	(0.932)	96480	16.5614	4140.35
38	Trichloroethene	130	6.088	6.088	(1.040)	52665	35.6298	8907.45
39	Bromodichloromethane	83	6.570	6.570	(1.122)	34006	14.2499	3562.48
40	Methyl Methacrylate	41	6.435	6.432	(1.254)	26051	17.6893	4422.33
41	2-Chloroethylvinyl ether	63	6.850	6.853	(1.170)	13114	22.0776	5519.40
42	1,2-Dichloropropane	63	6.310	6.309	(1.078)	27056	16.1671	4041.77
43	2-Nitropropane	43	6.802	6.798	(1.325)	7812	17.0488	4262.19
44	Dibromomethane	93	6.419	6.416	(1.097)	14704	15.6252	3906.29
45	4-Methyl-2-Pentanone	43	7.130	7.126	(0.842)	50461	32.5716	8142.90
46	cis-1,3-Dichloropropene	75	6.979	6.978	(1.192)	35079	15.2259	3806.47
* 47	Chlorobenzene-d5	117	8.467	8.467	(1.000)	199549	50.0000	
$ 48	Toluene-d8	98	7.207	7.203	(0.851)	288742	60.1197	60.11(R)
49	Ethyl Methacrylate	69	8.046	8.039	(1.375)	28903	15.7789	3944.73
50	Toluene	91	7.265	7.264	(0.858)	100041	16.5752	4143.79
51	trans-1,3-Dichloropropene	75	6.979	6.978	(1.192)	35079	15.2259	3806.47
52	2-Hexanone	43	7.863	7.859	(0.929)	33708	31.3784	7844.60
53	1,1,2-Trichloroethane	83	7.638	7.637	(0.902)	18355	15.9977	3999.42
54	1,3-Dichloropropane	76	7.779	7.782	(0.919)	39390	16.0439	4010.97
55	Dibromochloromethane	129	7.975	7.978	(0.942)	23753	14.5327	3633.18
56	Tetrachloroethene	164	7.737	7.737	(0.914)	18855	16.6242	4156.06
57	1,2-Dibromoethane	107	8.072	8.071	(0.953)	18746	15.3253	3831.31
58	1-Chlorohexane	55	8.467	8.467	(1.447)	26136	16.1292	4032.31
59	Chlorobenzene	112	8.493	8.493	(1.003)	63593	16.0406	4010.15
60	1,1,1,2-Tetrachloroethane	131	8.564	8.563	(1.011)	21780	16.0520	4012.99
61	Ethylbenzene	106	8.583	8.583	(1.014)	33521	16.4632	4115.79
62	m,p-Xylenes	106	8.686	8.682	(1.026)	85216	33.4231	8355.78
63	o-Xylene	106	9.023	9.023	(1.066)	40463	16.3021	4075.52
64	Styrene	104	9.040	9.039	(1.068)	70907	16.2408	4060.19
66	Bromoform	173	9.203	9.206	(1.087)	15030	14.5837	3645.92
67	Isopropylbenzene	105	9.339	9.338	(1.103)	104579	16.5284	4132.10
68	1,1,2,2-Tetrachloroethane	83	9.609	9.608	(0.919)	27848	15.6780	3919.50
$ 69	4-Bromofluorobenzene	95	9.474	9.473	(1.119)	104127	54.1038	54.10
* 70	1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	102881	50.0000	
71	1,2,3-Trichloropropane	75	9.650	9.650	(0.923)	30576	15.2534	3813.36
72	trans-1,4-Dichloro-2-butene	53	9.660	9.660	(1.141)	6213	14.4124	3603.11
73	n-Propylbenzene	91	9.689	9.689	(0.927)	125265	16.3233	4080.83
74	Bromobenzene	156	9.605	9.605	(0.919)	26805	15.9091	3977.26

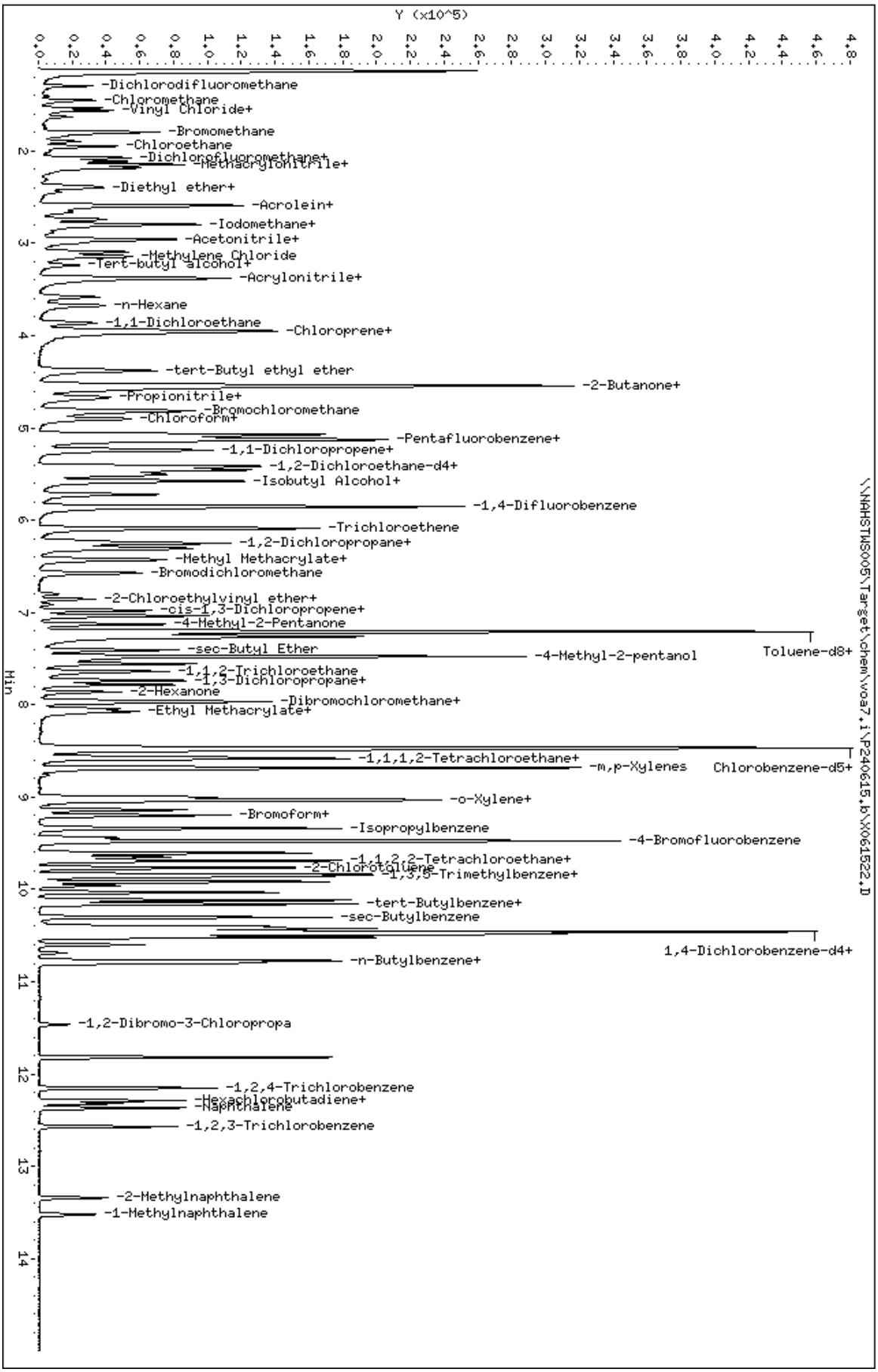
75	1,3,5-Trimethylbenzene	105	9.837	9.837 (0.941)	89448	16.3302	4082.54
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	75935	15.9706	3992.63

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061522.D Page 3
Report Date: 12-Jul-2024 11:39

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
77	4-Chlorotoluene	91	9.859	9.859	(0.943)	89245	15.9934	3998.35
78	tert-Butylbenzene	119	10.117	10.116	(0.967)	74611	16.3252	4081.30
79	1,2,4-Trimethylbenzene	105	10.158	10.158	(0.971)	89410	16.2894	4072.35
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	102160	16.4186	4104.65
82	p-Isopropyltoluene	119	10.425	10.425	(0.997)	90409	16.1240	4030.99
83	1,3-Dichlorobenzene	146	10.403	10.403	(0.995)	49249	15.9165	3979.13
84	1,4-Dichlorobenzene	146	10.480	10.476	(1.002)	49733	15.5514	3887.84
87	n-Butylbenzene	91	10.773	10.772	(1.030)	84589	15.9825	3995.61
88	1,2-Dichlorobenzene	146	10.798	10.795	(1.033)	45570	15.2793	3819.83
89	1,2-Dibromo-3-Chloropropane	75	11.461	11.464	(1.096)	4195	13.7976	3449.41
90	1,2,4-Trichlorobenzene	180	12.152	12.155	(1.162)	26988	14.4212	3605.29
91	Hexachlorobutadiene	225	12.287	12.287	(1.175)	14056	15.5666	3891.66
92	Naphthalene	128	12.367	12.367	(1.183)	57188	12.9582	3239.56
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	21088	13.1268	3281.70
135	1,4-Dioxane	88	6.445	6.448	(1.256)	4176	389.781	97445.21(A)
138	Freon TF	101	2.593	2.589	(0.505)	35730	27.2056	6801.41
139	Diethyl ether	59	2.381	2.377	(0.464)	18410	19.4990	4874.73
140	1,3-Butadiene	54	1.564	1.564	(0.305)	14137	17.3564	4339.08
141	Cyclohexane	56	5.114	5.113	(0.996)	40102	16.9925	4248.12
147	Methylcyclohexane	83	6.249	6.252	(1.068)	42757	21.2353	5308.81
132	n-Butanol	56	6.252	6.248	(1.218)	17512	424.648	106161.90
131	Methyl Acrylate	55	4.689	4.689	(0.914)	26240	17.6535	4413.37
133	Ethyl Acrylate	55	6.223	6.223	(1.212)	30506	8.37139	2092.84
136	n-Hexane	57	3.676	3.673	(0.716)	25612	15.9841	3996.01
142	Tetrahydrofuran	42	4.866	4.863	(0.948)	9548	40.3849	10096.22
148	Tert-butyl alcohol	59	3.242	3.239	(0.632)	32413	339.129	84782.32
149	Isopropyl alcohol	45	2.815	2.814	(0.548)	25366	368.988	92247.06
151	4-Methyl-2-pentanol	45	7.477	7.473	(0.883)	182915	345.443	86360.81
166	1,2,3-Trimethylbenzene	105	10.519	10.518	(1.006)	96249	18.1636	4540.89
167	Ethanol	45	2.307	2.310	(0.449)	4445	386.372	96593.01
172	tert-Butyl formate	59	3.242	3.239	(0.632)	32413	38.9672	9741.78
173	3,3-Dimethyl-1-butanol	57	8.046	8.042	(0.950)	41035	325.510	81377.49
174	tert-Amyl methyl ether	73	5.577	5.580	(1.086)	74923	18.8364	4709.10
175	tert-Butyl ethyl ether	59	4.381	4.377	(0.853)	79805	18.0716	4517.90
157	2-Methylnaphthalene	142	13.338	13.341	(1.275)	19090	11.8849	2971.22
156	Diisopropyl ether	45	3.946	3.949	(0.769)	92274	17.9424	4485.60
171	1-Methylnaphthalene	142	13.525	13.525	(1.293)	16361	11.5207	2880.16
130	Ethyl Acetate	43	3.946	3.946	(0.769)	141715	15.8062	3951.56
176	tert-Amyl alcohol	59	5.512	5.509	(1.074)	29536	370.556	92638.97(A)
160	Epichlorohydrin	57	6.914	6.914	(1.181)	6042	65.8906	16472.64
161	Butyl acrylate	55	8.998	8.997	(1.063)	58046	17.2920	4322.99
183	Isopropyl Acetate	43	5.570	5.573	(0.952)	75975	17.2644	4316.10(A)
184	n-Amyl acetate	43	9.194	9.194	(1.086)	46646	14.6318	3657.94(A)
185	Acetaldehyde	44	1.631	1.628	(0.318)	23799	112.092	28023.05(A)
186	n-Butyl acetate	43	7.966	7.969	(0.941)	40262	16.4432	4110.79(A)
187	2-Etyhlhexyl Acrylate	55	12.319	12.319	(1.178)	15199	14.7975	3699.37(A)
188	Tetrahydrothiophene	60	7.956	7.956	(0.940)	28743	18.1249	4531.23(A)
189	sec-Butyl Ether	57	7.406	7.406	(0.875)	31039	22.0089	5502.23(A)
190	Isoprene	39	2.403	2.396	(0.468)	5678	14.5277	3631.91(A)
191	2-Chloropropene	41	2.149	2.149	(0.419)	42928	19.2671	4816.78(A)
M 94	1,2-Dichloroethylene (total)	96				171243	112.826	28206.40
M 95	Xylenes (total)	106				125679	49.7253	12431.31

QC Flag Legend

A - Target compound detected but, quantitated amount
exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.



Data File: \\NAHSTWS005\Target\chem\voa7,i\P240615,b\X061522.D
Date : 15-JUN-2024 22:01
Client ID: HS2406043-01MS
Sample Info: HS2406043-01MS;HS2406043-01MS;3;;MS
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7,i
Operator: AP
Column diameter: 0.18

Page 1

Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061522.D
Inj Date : 15-JUN-2024 22:01
InstruID : voa7.i
LabSampID : HS24060434-01MS

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061523.D Page 1
Report Date: 12-Jul-2024 11:39

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061523.D
Lab Smp Id: HS24060434-01MSD Client Smp ID: HS24060434-01MSD
Inj Date : 15-JUN-2024 22:24
Operator : AP Inst ID: voa7.i
Smp Info : HS24060434-01MSD;HS24060434-01MSD;3;;MSD
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240615.b\8260W.m
Meth Date : 12-Jul-2024 11:38 voa7.i Quant Type: ISTD
Cal Date : 15-JUN-2024 17:04 Cal File: X061510.D
Als bottle: 21 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1	Pentafluorobenzene	168	5.130	5.133	(1.000)	127655	50.0000	
2	Dichlorodifluoromethane	85	1.294	1.294	(0.252)	22415	16.3246	16.32
159	Dichlorofluoromethane	67	2.075	2.075	(0.405)	51659	19.4330	19.43
3	Chloromethane	50	1.448	1.448	(0.282)	32920	16.0745	16.07
4	Propionitrile	54	4.670	4.670	(0.910)	32631	182.953	182.95
5	Vinyl Chloride	62	1.532	1.535	(0.299)	30037	16.5838	16.58
6	Bromomethane	94	1.802	1.808	(0.351)	16547	16.1108	16.11
7	Chloroethane	64	1.892	1.895	(0.369)	18405	16.5446	16.54
8	Trichlorofluoromethane	101	2.111	2.113	(0.411)	38713	16.3658	16.36
9	Acrolein	56	2.512	2.519	(0.490)	1028	28.5819	28.58
10	Acetone	43	2.667	2.667	(0.520)	17808	36.5010	36.50
11	1,1-Dichloroethene	96	2.590	2.593	(0.505)	21492	16.4678	16.46
12	Isobutyl Alcohol	43	5.570	5.573	(1.086)	73407	333.707	333.70
13	Acetonitrile	39	2.959	2.962	(0.577)	40440	200.782	200.78
14	Allyl Chloride	41	2.959	2.956	(0.577)	82649	19.5664	19.56
15	Iodomethane	142	2.737	2.744	(0.534)	50120	32.7195	32.71
16	Acrylonitrile	53	3.377	3.380	(0.658)	17078	37.4886	37.48
17	Methylene Chloride	84	3.094	3.094	(0.603)	27338	16.9716	16.97
18	Methyl tert-butyl ether	73	3.377	3.380	(0.658)	65148	18.1465	18.14
19	Carbon Disulfide	76	2.792	2.795	(0.544)	131265	32.1719	32.17

20 trans-1,2-Dichloroethene	96	3.371	3.374 (0.657)	22220	16.1027	16.10
21 Vinyl Acetate	43	4.654	4.657 (0.907)	24879	32.2659	32.26

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061523.D Page 2
Report Date: 12-Jul-2024 11:39

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
22	1,1-Dichloroethane	63	3.866	3.863	(0.754)	45884	15.2893	15.28
23	Chloroprene	53	3.966	3.965	(0.773)	38222	16.0113	16.01
24	2-Butanone	43	4.590	4.589	(0.895)	21570	32.9026	32.90
25	Methacrylonitrile	41	2.146	2.149	(0.418)	41823	19.6576	19.65
26	2,2-Dichloropropane	77	4.532	4.535	(0.883)	36538	14.3431	14.34
27	cis-1,2-Dichloroethene	96	4.544	4.544	(0.886)	143469	94.6039	94.60
28	Chloroform	83	4.905	4.901	(0.956)	44037	15.6639	15.66
29	Bromochloromethane	128	4.808	4.808	(0.937)	12080	16.0026	16.00
$ 30	Dibromofluoromethane	113	5.072	5.072	(0.989)	81310	59.9837	59.98(R)
31	1,1,1-Trichloroethane	97	5.072	5.075	(0.989)	37273	15.5532	15.55
32	1,1-Dichloropropene	75	5.245	5.245	(0.896)	33136	15.8152	15.81
33	1,2-Dichloroethane	62	5.493	5.490	(0.938)	37613	15.8688	15.86
34	Carbon Tetrachloride	117	5.233	5.236	(0.894)	31842	15.5937	15.59
$ 35	1,2-Dichloroethane-d4	65	5.413	5.416	(1.055)	107761	59.6011	59.60
* 36	1,4-Difluorobenzene	114	5.853	5.853	(1.000)	214775	50.0000	
37	Benzene	78	5.458	5.457	(0.932)	92502	15.8263	15.82
38	Trichloroethene	130	6.088	6.088	(1.040)	51385	34.6915	34.69
39	Bromodichloromethane	83	6.567	6.570	(1.122)	33281	13.9186	13.91
40	Methyl Methacrylate	41	6.432	6.432	(1.254)	25973	17.9132	17.91
41	2-Chloroethylvinyl ether	63	6.856	6.853	(1.171)	13122	22.0457	22.04
42	1,2-Dichloropropane	63	6.306	6.309	(1.077)	26174	15.5945	15.59
43	2-Nitropropane	43	6.798	6.798	(1.325)	8497	18.7777	18.77
44	Dibromomethane	93	6.419	6.416	(1.097)	14891	15.7931	15.79
45	4-Methyl-2-Pentanone	43	7.126	7.126	(0.842)	49363	31.8595	31.85
46	cis-1,3-Dichloropropene	75	6.975	6.978	(1.192)	33999	14.7419	14.74
* 47	Chlorobenzene-d5	117	8.467	8.467	(1.000)	199331	50.0000	
$ 48	Toluene-d8	98	7.207	7.203	(0.851)	295757	61.6802	61.68(R)
49	Ethyl Methacrylate	69	8.043	8.039	(1.374)	31542	17.1625	17.16
50	Toluene	91	7.265	7.264	(0.858)	96538	15.9908	15.99
51	trans-1,3-Dichloropropene	75	6.975	6.978	(1.192)	33999	14.7419	14.74
52	2-Hexanone	43	7.863	7.859	(0.929)	30997	28.6493	28.64
53	1,1,2-Trichloroethane	83	7.638	7.637	(0.902)	18473	16.1246	16.12
54	1,3-Dichloropropane	76	7.786	7.782	(0.919)	38197	15.5527	15.55
55	Dibromochloromethane	129	7.978	7.978	(0.942)	23087	14.1407	14.14
56	Tetrachloroethene	164	7.734	7.737	(0.913)	17705	15.6227	15.62
57	1,2-Dibromoethane	107	8.072	8.071	(0.953)	19124	15.6708	15.67
58	1-Chlorohexane	55	8.467	8.467	(1.447)	25304	15.5058	15.50
59	Chlorobenzene	112	8.493	8.493	(1.003)	62474	15.7645	15.76
60	1,1,1,2-Tetrachloroethane	131	8.564	8.563	(1.011)	21444	15.8283	15.82
61	Ethylbenzene	106	8.586	8.583	(1.014)	32936	16.1849	16.18
62	m,p-Xylenes	106	8.683	8.682	(1.025)	79306	31.0639	31.06
63	o-Xylene	106	9.027	9.023	(1.066)	39116	15.7527	15.75
64	Styrene	104	9.039	9.039	(1.068)	67816	15.5235	15.52
66	Bromoform	173	9.207	9.206	(1.087)	15101	14.6686	14.66
67	Isopropylbenzene	105	9.339	9.338	(1.103)	101918	16.1176	16.11
68	1,1,2,2-Tetrachloroethane	83	9.609	9.608	(0.919)	27443	15.2665	15.26
$ 69	4-Bromofluorobenzene	95	9.477	9.473	(1.119)	107754	56.1276	56.12
* 70	1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	103987	50.0000	
71	1,2,3-Trichloropropane	75	9.647	9.650	(0.923)	31762	15.6932	15.69
72	trans-1,4-Dichloro-2-butene	53	9.660	9.660	(1.141)	6399	14.8548	14.85
73	n-Propylbenzene	91	9.689	9.689	(0.927)	122351	15.7745	15.77
74	Bromobenzene	156	9.605	9.605	(0.919)	26856	15.7680	15.76

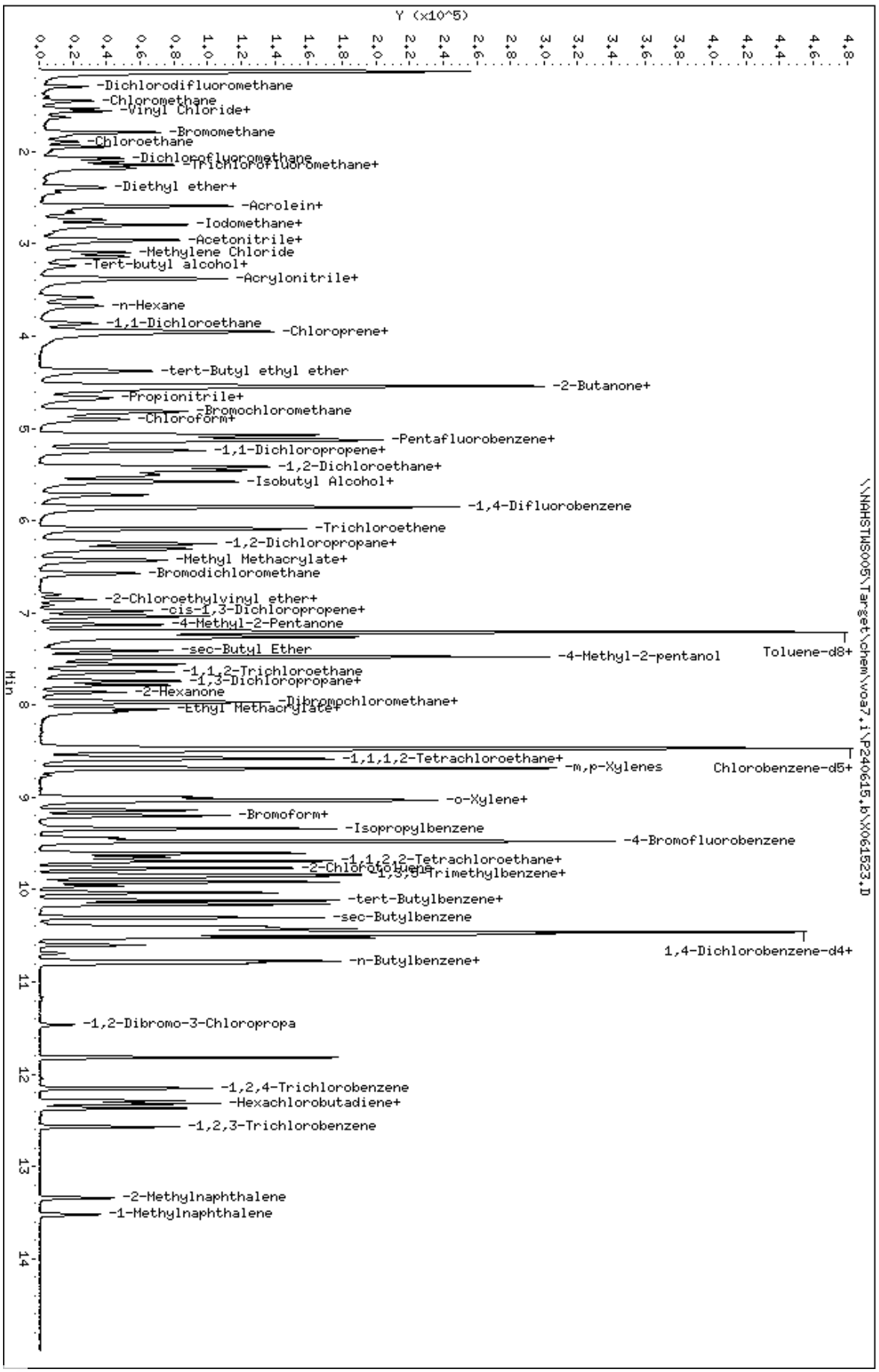
75	1,3,5-Trimethylbenzene	105	9.837	9.837 (0.941)	86046	15.5521	15.55
76	2-Chlorotoluene	91	9.763	9.766 (0.934)	75204	15.6391	15.63

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061523.D Page 3
Report Date: 12-Jul-2024 11:39

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
77	4-Chlorotoluene	91	9.859	9.859	(0.943)	86746	15.3699	15.36
78	tert-Butylbenzene	119	10.117	10.116	(0.967)	72604	15.7080	15.70
79	1,2,4-Trimethylbenzene	105	10.155	10.158	(0.971)	85889	15.4746	15.47
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	99841	15.8815	15.88
82	p-Isopropyltoluene	119	10.425	10.425	(0.997)	89659	15.8235	15.82
83	1,3-Dichlorobenzene	146	10.403	10.403	(0.995)	47955	15.3286	15.32
84	1,4-Dichlorobenzene	146	10.477	10.476	(1.002)	49595	15.3373	15.33
87	n-Butylbenzene	91	10.773	10.772	(1.030)	81442	15.2229	15.22
88	1,2-Dichlorobenzene	146	10.798	10.795	(1.033)	46158	15.3123	15.31
89	1,2-Dibromo-3-Chloropropane	75	11.464	11.464	(1.096)	4217	13.7225	13.72
90	1,2,4-Trichlorobenzene	180	12.155	12.155	(1.162)	27248	14.4062	14.40
91	Hexachlorobutadiene	225	12.290	12.287	(1.175)	13771	15.1110	15.11
92	Naphthalene	128	12.371	12.367	(1.183)	59795	13.4049	13.40
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	21404	13.1818	13.18
135	1,4-Dioxane	88	6.454	6.448	(1.258)	3993	377.679	377.67(A)
138	Freon TF	101	2.593	2.589	(0.506)	34358	26.5486	26.54
139	Diethyl ether	59	2.381	2.377	(0.464)	16673	17.9160	17.91
140	1,3-Butadiene	54	1.561	1.564	(0.304)	13225	16.5103	16.51
141	Cyclohexane	56	5.114	5.113	(0.997)	37251	15.9760	15.97
147	Methylcyclohexane	83	6.245	6.252	(1.067)	40675	20.2638	20.26
132	n-Butanol	56	6.245	6.248	(1.217)	15443	379.921	379.92
131	Methyl Acrylate	55	4.686	4.689	(0.914)	26868	18.3888	18.38
133	Ethyl Acrylate	55	6.252	6.223	(1.219)	69924	19.4674	19.46
136	n-Hexane	57	3.676	3.673	(0.717)	24637	15.6167	15.61
142	Tetrahydrofuran	42	4.860	4.863	(0.947)	10905	46.5610	46.56
148	Tert-butyl alcohol	59	3.239	3.239	(0.631)	32613	346.183	346.18
149	Isopropyl alcohol	45	2.818	2.814	(0.549)	25919	383.632	383.63
151	4-Methyl-2-pentanol	45	7.474	7.473	(0.883)	172441	325.662	325.66
166	1,2,3-Trimethylbenzene	105	10.519	10.518	(1.006)	94354	17.6166	17.61
167	Ethanol	45	2.310	2.310	(0.450)	3890	338.859	338.85
172	tert-Butyl formate	59	3.239	3.239	(0.631)	32613	39.8293	39.82
173	3,3-Dimethyl-1-butanol	57	8.040	8.042	(0.949)	45599	361.197	361.19
174	tert-Amyl methyl ether	73	5.577	5.580	(1.087)	72349	18.4501	18.45
175	tert-Butyl ethyl ether	59	4.374	4.377	(0.853)	78239	17.9746	17.97
157	2-Methylnaphthalene	142	13.342	13.341	(1.276)	20077	12.3664	12.36
156	Diisopropyl ether	45	3.950	3.949	(0.770)	92950	18.3367	18.33
171	1-Methylnaphthalene	142	13.522	13.525	(1.293)	17467	12.1687	12.16
130	Ethyl Acetate	43	3.946	3.946	(0.769)	142136	16.0812	16.08
176	tert-Amyl alcohol	59	5.512	5.509	(1.075)	30364	387.550	387.54(A)
160	Epichlorohydrin	57	6.914	6.914	(1.181)	6519	70.8490	70.84
161	Butyl acrylate	55	8.998	8.997	(1.063)	58782	17.5269	17.52
183	Isopropyl Acetate	43	5.570	5.573	(0.952)	73407	16.6264	16.62(A)
184	n-Amyl acetate	43	9.194	9.194	(1.086)	46332	14.5523	14.55(A)
185	Acetaldehyde	44	1.628	1.628	(0.317)	22404	106.863	106.86(A)
186	n-Butyl acetate	43	7.966	7.969	(0.941)	39191	16.0009	16.00(A)
187	2-Etyhlhexyl Acrylate	55	12.319	12.319	(1.178)	31541	26.4055	26.40(A)
188	Tetrahydrothiophene	60	7.959	7.956	(0.940)	28676	18.1023	18.10(A)
189	sec-Butyl Ether	57	7.406	7.406	(0.875)	29102	20.5055	20.50(A)
190	Isoprene	39	2.397	2.396	(0.467)	7481	19.2964	19.29(A)
191	2-Chloropropene	41	2.146	2.149	(0.418)	41823	19.0441	19.04(A)
M 94	1,2-Dichloroethylene (total)	96				165689	110.707	110.70
M 95	Xylenes (total)	106				118422	46.8166	46.81

QC Flag Legend

A - Target compound detected but, quantitated amount
exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.



Data File: \\NAHSTWS005\Target\chem\voa7,i\P240615,b\X061523,D
Date : 15-JUN-2024 22:24
Client ID: HS2406043-01MSD
Sample Info: HS2406043-01MSD;HS2406043-01MSD;3;;MSD
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7,i
Operator: AP
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061523.D
Inj Date : 15-JUN-2024 22:24
InstruID : voa7.i
LabSampID : HS24060434-01MSD

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061541.D Page 1
Report Date: 12-Jul-2024 11:51

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061541.D
Lab Smp Id: VSTD50 Client Smp ID: VSTD50
Inj Date : 16-JUN-2024 05:16
Operator : AP Inst ID: voa7.i
Smp Info : VSTD50;VSTD050;2;;CCV
Misc Info : HS220328V7;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa7.i\P240615.b\8260W.m
Meth Date : 12-Jul-2024 11:51 voa7.i Quant Type: ISTD
Cal Date : 15-JUN-2024 16:41 Cal File: X061509.D
Als bottle: 39 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	5.133	5.133	(1.000)	124741	50.0000	
2	Dichlorodifluoromethane	85	1.294	1.294	(0.252)	58351	50.0000	44.07
159	Dichlorofluoromethane	67	2.072	2.072	(0.404)	122795	50.0000	47.27
3	Chloromethane	50	1.448	1.448	(0.282)	85419	50.0000	44.30
4	Propionitrile	54	4.670	4.670	(0.910)	73432	500.000	434.11
5	Vinyl Chloride	62	1.532	1.532	(0.298)	78265	50.0000	44.44
6	Bromomethane	94	1.808	1.808	(0.352)	43449	50.0000	45.63
7	Chloroethane	64	1.895	1.895	(0.369)	48180	50.0000	45.01
8	Trichlorofluoromethane	101	2.110	2.110	(0.411)	103061	50.0000	45.20
9	Acrolein	56	2.519	2.519	(0.491)	3606	100.000	102.60
10	Acetone	43	2.667	2.667	(0.520)	38802	100.000	88.73
11	1,1-Dichloroethene	96	2.589	2.589	(0.505)	57219	50.0000	44.59
12	Isobutyl Alcohol	43	5.573	5.573	(1.086)	180783	1000.00	869.36
13	Acetonitrile	39	2.959	2.959	(0.577)	96140	500.000	497.54
14	Allyl Chloride	41	2.959	2.959	(0.577)	191034	50.0000	47.59
15	Iodomethane	142	2.740	2.740	(0.534)	138457	100.000	85.47
16	Acrylonitrile	53	3.371	3.371	(0.657)	40127	100.000	91.44
17	Methylene Chloride	84	3.091	3.091	(0.602)	66112	50.0000	44.67
18	Methyl tert-butyl ether	73	3.377	3.377	(0.658)	158399	50.0000	44.72
19	Carbon Disulfide	76	2.795	2.795	(0.545)	340882	100.000	86.45

20 trans-1,2-Dichloroethene	96	3.377	3.377 (0.658)	58564	50.0000	43.88
21 Vinyl Acetate	43	4.657	4.657 (0.907)	55914	100.000	78.59

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061541.D Page 2
Report Date: 12-Jul-2024 11:51

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	22 1,1-Dichloroethane	63	3.863	3.863	(0.753)	123327	50.0000	42.05
	23 Chloroprene	53	3.966	3.966	(0.773)	100701	50.0000	43.22
	24 2-Butanone	43	4.586	4.586	(0.894)	48251	100.000	80.83
	25 Methacrylonitrile	41	2.146	2.146	(0.418)	94749	50.0000	45.57
	26 2,2-Dichloropropane	77	4.531	4.531	(0.883)	96704	50.0000	38.84
	27 cis-1,2-Dichloroethene	96	4.544	4.544	(0.885)	66378	50.0000	44.51
	28 Chloroform	83	4.901	4.901	(0.955)	120673	50.0000	45.36
	29 Bromochloromethane	128	4.802	4.802	(0.935)	32168	50.0000	44.32
$	30 Dibromofluoromethane	113	5.072	5.072	(0.988)	78400	50.0000	59.16
	31 1,1,1-Trichloroethane	97	5.072	5.072	(0.988)	102643	50.0000	43.84
	32 1,1-Dichloropropene	75	5.245	5.245	(0.896)	88074	50.0000	42.22
	33 1,2-Dichloroethane	62	5.493	5.493	(0.938)	100604	50.0000	43.58
	34 Carbon Tetrachloride	117	5.232	5.232	(0.894)	85840	50.0000	40.84
$	35 1,2-Dichloroethane-d4	65	5.412	5.412	(1.054)	101447	50.0000	57.35(M)
*	36 1,4-Difluorobenzene	114	5.853	5.853	(1.000)	212775	50.0000	
	37 Benzene	78	5.457	5.457	(0.932)	246387	50.0000	43.36
	38 Trichloroethene	130	6.088	6.088	(1.040)	64130	50.0000	43.74
	39 Bromodichloromethane	83	6.570	6.570	(1.122)	92038	50.0000	38.85
	40 Methyl Methacrylate	41	6.432	6.432	(1.253)	64997	50.0000	48.64
	41 2-Chloroethylvinyl ether	63	6.856	6.856	(1.171)	51472	100.000	89.29
	42 1,2-Dichloropropane	63	6.309	6.309	(1.078)	69460	50.0000	42.48
	43 2-Nitropropane	43	6.798	6.798	(1.324)	18779	50.0000	42.03
	44 Dibromomethane	93	6.419	6.419	(1.097)	39079	50.0000	41.90
	45 4-Methyl-2-Pentanone	43	7.126	7.126	(0.842)	119437	100.000	80.80
	46 cis-1,3-Dichloropropene	75	6.975	6.975	(1.192)	92829	50.0000	39.88
*	47 Chlorobenzene-d5	117	8.467	8.467	(1.000)	196704	50.0000	
$	48 Toluene-d8	98	7.203	7.203	(0.851)	279939	50.0000	59.10
	49 Ethyl Methacrylate	69	8.043	8.043	(1.374)	66036	50.0000	35.65
	50 Toluene	91	7.264	7.264	(0.858)	252934	50.0000	43.50
	51 trans-1,3-Dichloropropene	75	6.975	6.975	(1.192)	92829	50.0000	39.88
	52 2-Hexanone	43	7.859	7.859	(0.928)	79990	100.000	79.73
	53 1,1,2-Trichloroethane	83	7.637	7.637	(0.902)	47928	50.0000	43.79
	54 1,3-Dichloropropane	76	7.782	7.782	(0.919)	101179	50.0000	43.03
	55 Dibromochloromethane	129	7.975	7.975	(0.942)	63806	50.0000	39.60
	56 Tetrachloroethene	164	7.737	7.737	(0.914)	48534	50.0000	43.53
	57 1,2-Dibromoethane	107	8.071	8.071	(0.953)	49012	50.0000	42.15
	58 1-Chlorohexane	55	8.467	8.467	(1.447)	60506	50.0000	40.74
	59 Chlorobenzene	112	8.493	8.493	(1.003)	165702	50.0000	43.50
	60 1,1,1,2-Tetrachloroethane	131	8.563	8.563	(1.011)	57693	50.0000	42.35
	61 Ethylbenzene	106	8.583	8.583	(1.014)	84478	50.0000	42.91
	62 m,p-Xylenes	106	8.682	8.682	(1.025)	213380	100.000	86.59
	63 o-Xylene	106	9.023	9.023	(1.066)	104318	50.0000	43.83
	64 Styrene	104	9.039	9.039	(1.068)	185618	50.0000	44.15
	66 Bromoform	173	9.206	9.206	(1.087)	40357	50.0000	39.72
	67 Isopropylbenzene	105	9.338	9.338	(1.103)	269433	50.0000	43.71
	68 1,1,2,2-Tetrachloroethane	83	9.608	9.608	(0.919)	68538	50.0000	38.86
$	69 4-Bromofluorobenzene	95	9.473	9.473	(1.119)	102991	50.0000	54.29
*	70 1,4-Dichlorobenzene-d4	152	10.457	10.457	(1.000)	105082	50.0000	
	71 1,2,3-Trichloropropane	75	9.647	9.647	(0.923)	76782	50.0000	38.37
	72 trans-1,4-Dichloro-2-butene	53	9.657	9.657	(1.140)	15232	50.0000	35.58
	73 n-Propylbenzene	91	9.689	9.689	(0.927)	320540	50.0000	40.87
	74 Bromobenzene	156	9.602	9.602	(0.918)	71852	50.0000	42.08

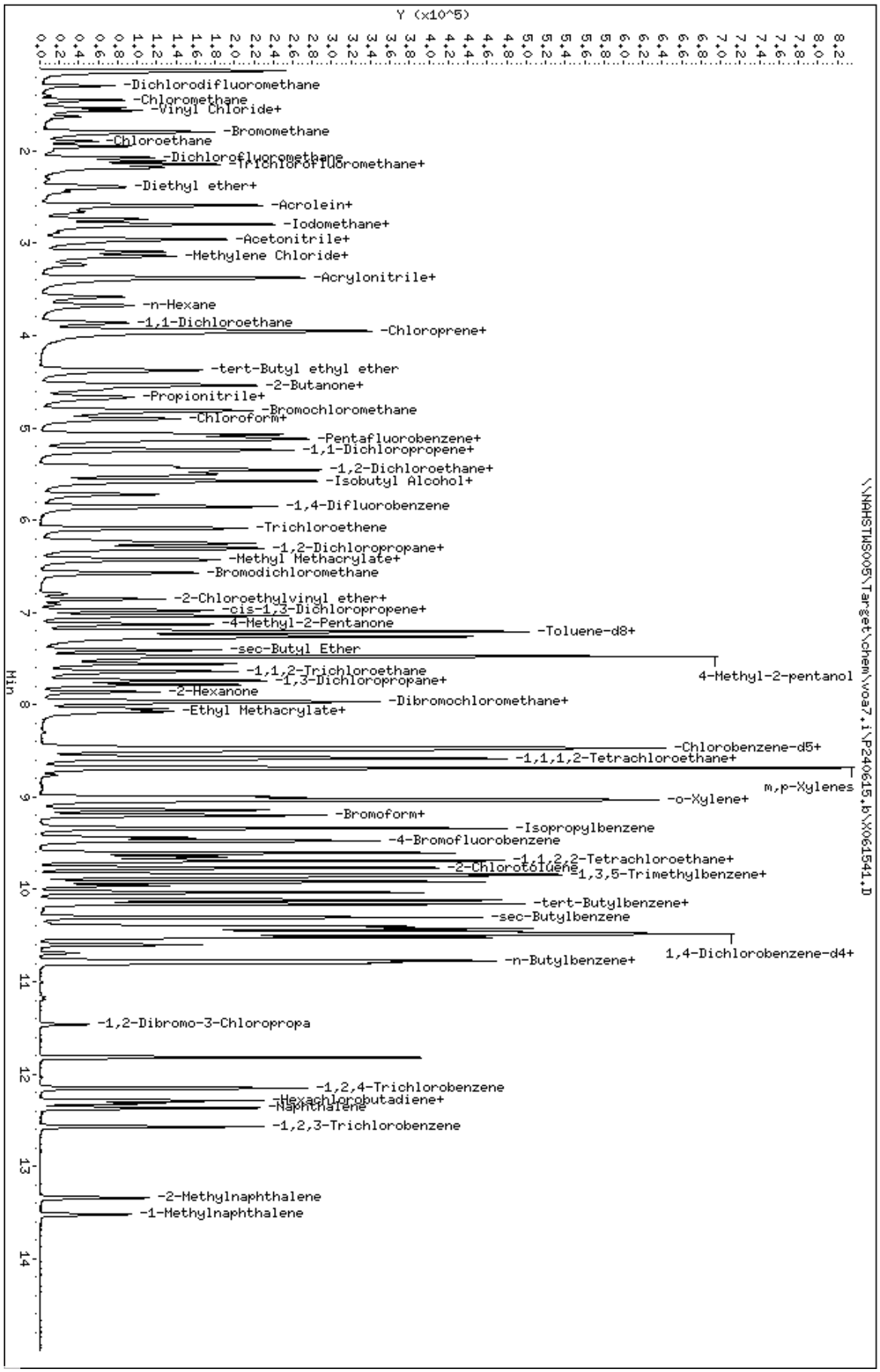
75	1,3,5-Trimethylbenzene	105	9.837	9.837 (0.941)	232688	50.0000	41.26
76	2-Chlorotoluene	91	9.766	9.766 (0.934)	199062	50.0000	41.72

Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061541.D Page 3
Report Date: 12-Jul-2024 11:51

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
77	4-Chlorotoluene	91	9.859	9.859	(0.943)	237207	50.0000	42.04
78	tert-Butylbenzene	119	10.116	10.116	(0.967)	195348	50.0000	42.23
79	1,2,4-Trimethylbenzene	105	10.158	10.158	(0.971)	234061	50.0000	41.96
81	sec-Butylbenzene	105	10.303	10.303	(0.985)	268136	50.0000	41.89
82	p-Isopropyltoluene	119	10.425	10.425	(0.997)	239701	50.0000	41.57
83	1,3-Dichlorobenzene	146	10.403	10.403	(0.995)	130331	50.0000	41.45
84	1,4-Dichlorobenzene	146	10.477	10.477	(1.002)	134410	50.0000	41.88
87	n-Butylbenzene	91	10.772	10.772	(1.030)	218434	50.0000	40.44
88	1,2-Dichlorobenzene	146	10.798	10.798	(1.033)	126222	50.0000	41.78
89	1,2-Dibromo-3-Chloropropane	75	11.464	11.464	(1.096)	11054	50.0000	35.59
90	1,2,4-Trichlorobenzene	180	12.152	12.152	(1.162)	73106	50.0000	36.89
91	Hexachlorobutadiene	225	12.290	12.290	(1.175)	37161	50.0000	39.14
92	Naphthalene	128	12.370	12.370	(1.183)	152868	50.0000	33.91
93	1,2,3-Trichlorobenzene	182	12.570	12.570	(1.202)	57278	50.0000	34.90
135	1,4-Dioxane	88	6.448	6.448	(1.256)	8885	1000.00	878.80(A)
138	Freon TF	101	2.593	2.593	(0.505)	54400	50.0000	42.83
139	Diethyl ether	59	2.377	2.377	(0.463)	43564	50.0000	47.90
140	1,3-Butadiene	54	1.560	1.560	(0.304)	35349	50.0000	43.87
141	Cyclohexane	56	5.107	5.107	(0.995)	95007	50.0000	42.75
147	Methylcyclohexane	83	6.248	6.248	(1.068)	87564	50.0000	41.65
132	n-Butanol	56	6.252	6.252	(1.218)	36481	1000.00	918.45(T)
131	Methyl Acrylate	55	4.686	4.686	(0.913)	63079	50.0000	45.98
133	Ethyl Acrylate	55	6.223	6.223	(1.212)	71677	50.0000	20.42
136	n-Hexane	57	3.673	3.673	(0.716)	62099	50.0000	39.12
142	Tetrahydrofuran	42	4.859	4.859	(0.947)	21663	100.000	93.13
148	Tert-butyl alcohol	59	3.236	3.236	(0.630)	64442	1000.00	700.02
149	Isopropyl alcohol	45	2.808	2.808	(0.547)	54388	1000.00	858.78
151	4-Methyl-2-pentanol	45	7.473	7.473	(0.883)	404412	1000.00	782.68
166	1,2,3-Trimethylbenzene	105	10.518	10.518	(1.006)	227050	50.0000	41.95
167	Ethanol	45	2.310	2.310	(0.450)	8770	1000.00	844.18
172	tert-Butyl formate	59	3.236	3.236	(0.630)	64442	100.000	83.07
173	3,3-Dimethyl-1-butanol	57	8.043	8.043	(0.950)	93227	1000.00	733.43
174	tert-Amyl methyl ether	73	5.576	5.576	(1.086)	174595	50.0000	45.82
175	tert-Butyl ethyl ether	59	4.377	4.377	(0.853)	193331	50.0000	45.45
157	2-Methylnaphthalene	142	13.341	13.341	(1.276)	51076	50.0000	31.13
156	Diisopropyl ether	45	3.949	3.949	(0.769)	231704	50.0000	46.77
171	1-Methylnaphthalene	142	13.521	13.521	(1.293)	42904	50.0000	29.57
130	Ethyl Acetate	43	3.943	3.943	(0.768)	337417	50.0000	38.86
176	tert-Amyl alcohol	59	5.509	5.509	(1.073)	63276	1000.00	854.61(A)
160	Epichlorohydrin	57	6.914	6.914	(1.181)	15609	200.000	169.33
161	Butyl acrylate	55	8.997	8.997	(1.063)	150988	50.0000	45.22
183	Isopropyl Acetate	43	5.573	5.573	(0.952)	180783	50.0000	42.22(A)
184	n-Amyl acetate	43	9.194	9.194	(1.086)	123080	50.0000	38.24(A)
185	Acetaldehyde	44	1.631	1.631	(0.318)	41663	200.000	207.24(A)
186	n-Butyl acetate	43	7.965	7.965	(0.941)	101581	50.0000	43.45(A)
187	2-Etyhlhexyl Acrylate	55	12.319	12.319	(1.178)	37600	50.0000	30.39(A)
188	Tetrahydrothiophene	60	7.959	7.959	(0.940)	71145	50.0000	45.76(A)
189	sec-Butyl Ether	57	7.406	7.406	(0.875)	66296	50.0000	50.58(A)
190	Isoprene	39	2.400	2.400	(0.468)	20878	50.0000	54.43(A)
191	2-Chloropropene	41	2.146	2.146	(0.418)	94749	50.0000	44.15(A)

QC Flag Legend

T - Target compound detected outside RT window.
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061541.D
Date : 16-JUN-2024 05:16
Client ID: VSTD50
Sample Info: VSTD50;VSTD050;2;;CCV
Purge Volume: 5.0
Column phase: DB624

Instrument: voa7.i
Operator: AP
Column diameter: 0.18

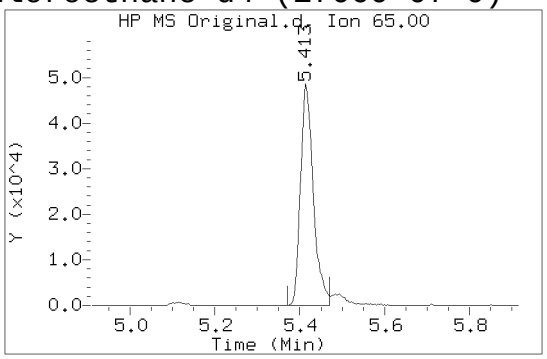
Data File : \\NAHSTWS005\Target\chem\voa7.i\P240615.b\X061541.D
Inj Date : 16-JUN-2024 05:16
InstruID : voa7.i
LabSampID : VSTD50

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

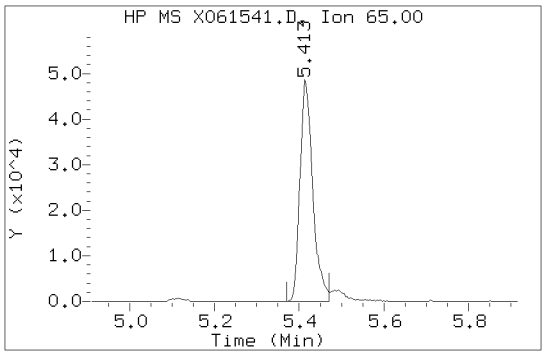
BEFORE

MASS
65
AREA
101447
HEIGHT
48648
12-Jul-2024
11:38
s
zaid



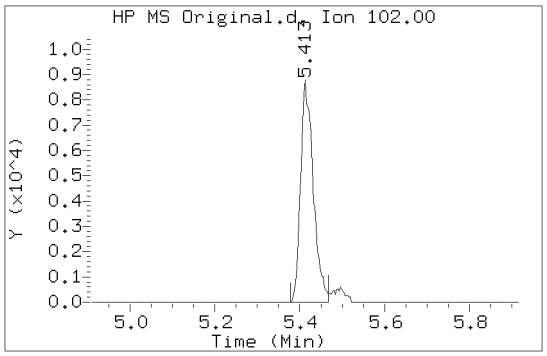
AFTER

MASS
65
AREA
101447
HEIGHT
48648
12-Jul-2024
11:51
s
zaid



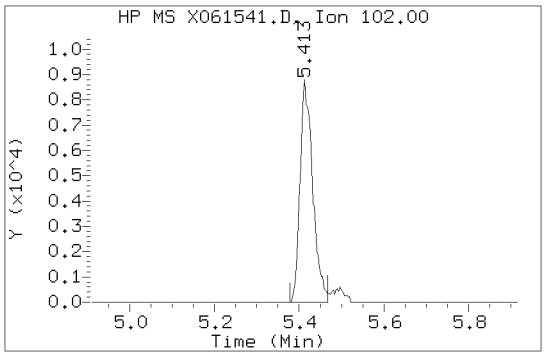
BEFORE

MASS
102
AREA
18072
HEIGHT
8789
12-Jul-2024
11:38
s
zaid



AFTER

MASS
102
AREA
18072
HEIGHT
8789
12-Jul-2024
11:51
s
zaid



right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24060434

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 18/24

07/15/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Data File: \\nahstws005\Target\chem\voa9.i\U240618.b\U61801.D Page 1
Report Date: 18-Jun-2024 15:46

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240618.b\U61801.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 18-JUN-2024 11:12
Operator : TS Inst ID: VOA9.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240618.b\bfb.m
Meth Date : 27-Jan-2023 08:08 apoluri Quant Type: ISTD
Cal Date : 30-MAR-2018 18:09 Cal File: U033003.d
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7026

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/l)		
RT	EXP RT	REL RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
9.194	9.180	(0.000)	95	68064			0.00- 100.00	100.00
9.194	9.180	(0.000)	50	12955			15.00- 40.00	19.03
9.194	9.180	(0.000)	75	33240			30.00- 60.00	48.84
9.194	9.180	(0.000)	96	4879			5.00- 9.00	7.17
9.194	9.180	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.194	9.180	(0.000)	174	57232			50.00- 0.00	84.09
9.194	9.180	(0.000)	175	4714			5.00- 9.00	8.24
9.194	9.180	(0.000)	176	54872			95.00- 101.00	95.88
9.194	9.180	(0.000)	177	3924			5.00- 9.00	7.15

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61802.D Page 1
Report Date: 26-Jun-2024 12:30

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61802.D
Lab Smp Id: VSTD00.25 Client Smp ID: VSTD00.25
Inj Date : 18-JUN-2024 11:33
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD00.25;VSTD00.25;1;1
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240618.b\8260C.m
Meth Date : 26-Jun-2024 12:30 VOA9.i Quant Type: ISTD
Cal Date : 18-JUN-2024 11:55 Cal File: U61803.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

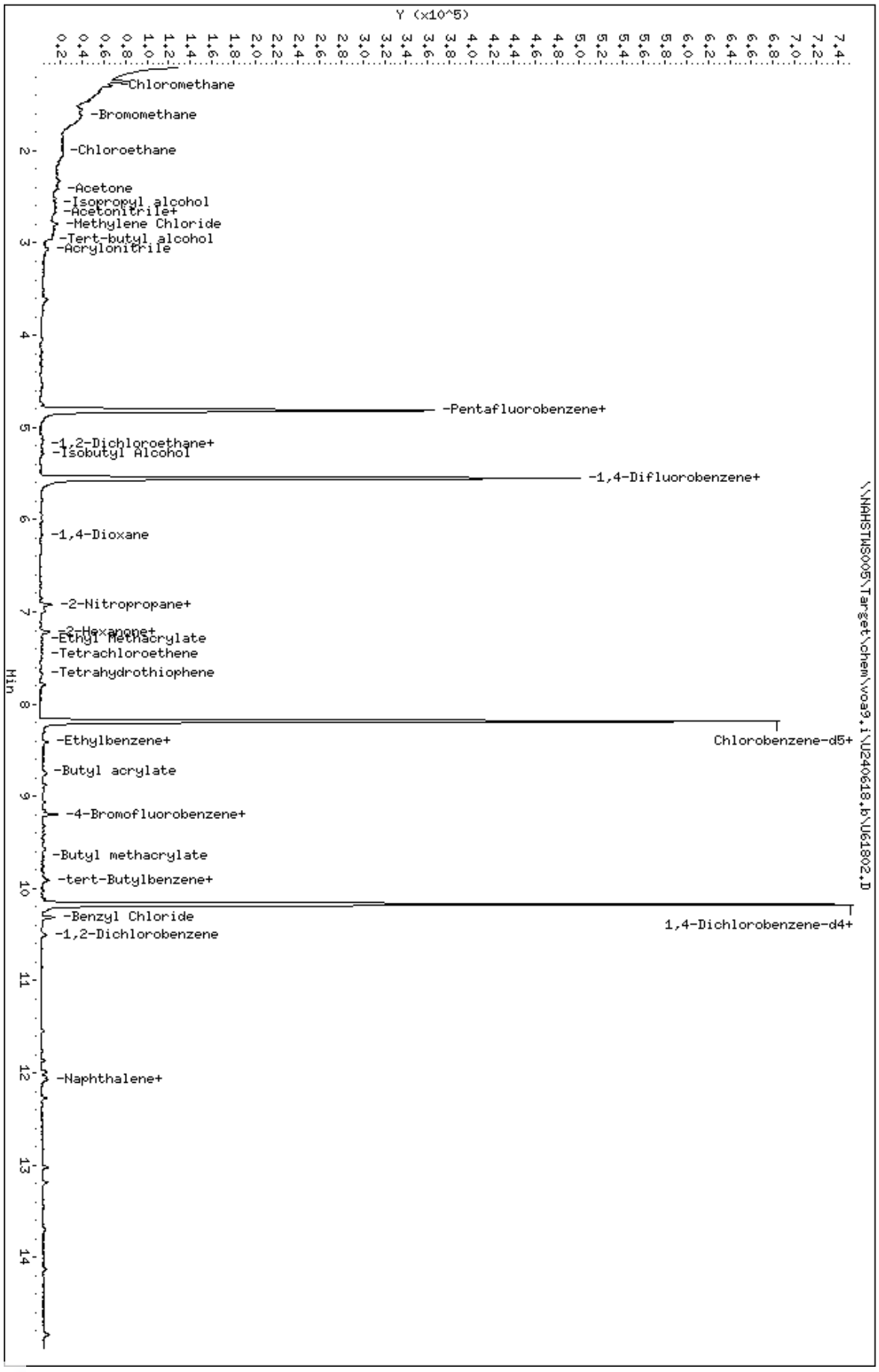
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Pentafluorobenzene	168	4.815	4.815	(1.000)	270458	50.0000	
	2 Dichlorodifluoromethane	85	1.014	1.014	(0.211)	7651	0.25000	5.60
	3 Chloromethane	50	1.299	1.299	(0.270)	6507	0.25000	0.18(a)
	5 Vinyl Chloride	62	1.010	1.010	(0.210)	16496	0.25000	7.72
	7 Chloroethane	64	2.004	2.004	(0.416)	5696	0.25000	3.71
	12 Isobutyl Alcohol	43	5.284	5.284	(1.097)	1633	5.00000	11.53(a)
	13 Acetonitrile	39	2.671	2.671	(0.555)	1044	2.50000	(a)
	14 Allyl Chloride	41	2.671	2.671	(0.555)	2736	0.25000	(a)
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	1389	0.25000	0.80
	34 Carbon Tetrachloride	117	4.815	4.815	(0.867)	24075	0.25000	11.01
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	1905	50.0000	0.92(T)
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	401235	50.0000	
	42 1,2-Dichloropropane	63	5.550	5.550	(0.999)	81768	0.25000	41.79
	43 2-Nitropropane	43	6.851	6.851	(1.423)	887	0.25000	2.01(a)
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	369703	50.0000	
$	48 Toluene-d8	98	6.926	6.926	(0.846)	7067	50.0000	1.10(a)
	50 Toluene	91	6.982	6.982	(0.853)	1896	0.25000	0.15(a)
	56 Tetrachloroethene	164	7.462	7.462	(0.912)	329	0.25000	0.20(aM)
	58 1-Chlorohexane	55	8.185	8.185	(1.474)	3793	0.25000	0.16(a)
	61 Ethylbenzene	106	8.414	8.414	(1.028)	1247	0.25000	0.44(a)

62 m,p-Xylenes	106	8.414	8.414 (1.028)	1247	0.50000	0.41(a)
63 o-Xylene	106	8.414	8.414 (1.028)	1247	0.25000	0.41(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
$	69 4-Bromofluorobenzene	95	9.197	9.197	(1.124)	4582	50.0000	1.87(a)
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	194700	50.0000	
	71 1,2,3-Trichloropropane	75	9.197	9.197	(0.904)	2124	0.25000	0.54(a)
	78 tert-Butylbenzene	119	9.838	9.838	(0.967)	945	0.25000	0.18(Ta)
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	1294	0.25000	0.49(a)
	86 Benzyl Chloride	91	10.314	10.314	(1.260)	8421	0.25000	0.41(a)
	92 Naphthalene	128	12.076	12.076	(1.187)	2989	0.25000	1.03(a)
	141 Cyclohexane	56	4.815	4.815	(1.000)	5385	0.25000	0.30(a)
	149 Isopropyl alcohol	45	2.558	2.558	(0.531)	1109	5.00000	(Ta)
	166 1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	2065	0.25000	0.79(a)
	151 4-Methyl-2-pentanol	45	7.218	7.218	(1.300)	4743	5.00000	0.37(a)
	134 Cyclohexanone	55	9.156	9.156	(0.900)	1391	5.00000	(Ta)
	203 2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	1974	0.25000	1.36(a)
	204 Tetrahydrothiophene	60	7.672	7.672	(0.937)	838	0.25000	0.00(aA)
	205 sec-Butyl Ether	57	7.218	7.218	(0.882)	1196	0.25000	(a)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61802.D
Date : 18-JUN-2024 11:33
Client ID: VSTD00.25
Sample Info: VSTD00.25;VSTD00.25;1;1
Purge Volume: 5.0
Column phase: DB624

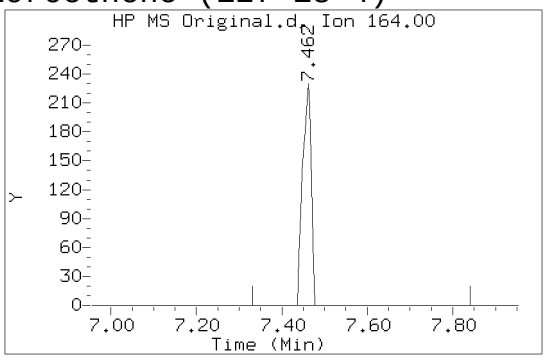
Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61802.D
Inj Date : 18-JUN-2024 11:33
InstruID : VOA9.i
LabSampID : VSTD00.25

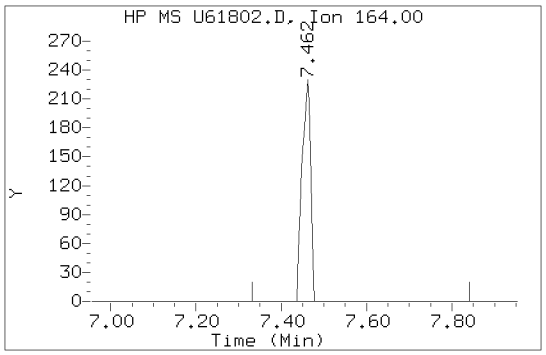
Tetrachloroethene (127-18-4)

Reason Code:

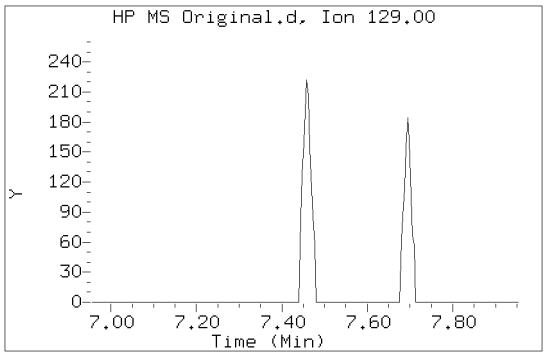
BEFORE
MASS
164
AREA
329
HEIGHT
230
26-Jun-2024
12:30
RUCHA
PATEL



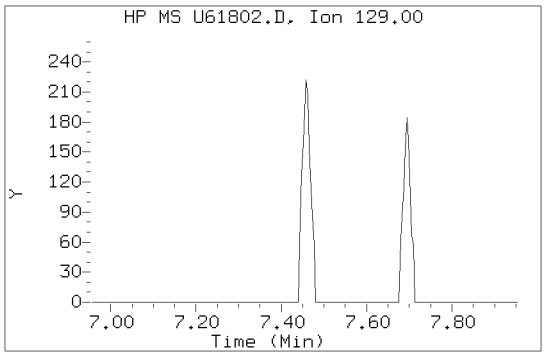
AFTER
MASS
164
AREA
329
HEIGHT
230
26-Jun-2024
12:30
RUCHA
PATEL



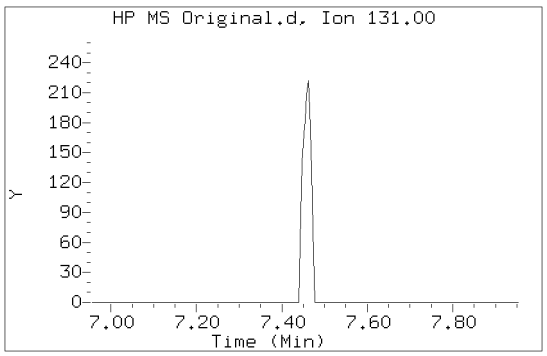
BEFORE
MASS
129
AREA
0
HEIGHT
0
26-Jun-2024
12:30
RUCHA
PATEL



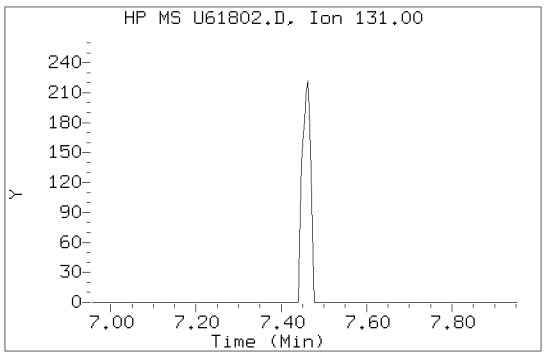
AFTER
MASS
129
AREA
0
HEIGHT
0
26-Jun-2024
12:30
RUCHA
PATEL



BEFORE
MASS
131
AREA
0
HEIGHT
0
26-Jun-2024
12:30
RUCHA
PATEL



AFTER
MASS
131
AREA
0
HEIGHT
0
26-Jun-2024
12:30
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61803.D Page 1
Report Date: 26-Jun-2024 12:30

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61803.D
Lab Smp Id: VSTD00.5 Client Smp ID: VSTD00.5
Inj Date : 18-JUN-2024 11:55
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD00.5;VSTD00.5;1;2
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240618.b\8260C.m
Meth Date : 26-Jun-2024 12:30 VOA9.i Quant Type: ISTD
Cal Date : 18-JUN-2024 11:33 Cal File: U61802.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.811	4.811	(1.000)	272482	50.0000	
2	Dichlorodifluoromethane	85	1.156	1.156	(0.240)	523	0.50000	0.60(M)
3	Chloromethane	50	1.291	1.291	(0.268)	7573	0.50000	0.42(a)
4	Propionitrile	54	4.335	4.335	(0.901)	2213	5.00000	(aM)
5	Vinyl Chloride	62	1.374	1.374	(0.286)	1018	0.50000	0.23(aM)
7	Chloroethane	64	1.693	1.693	(0.352)	830	0.50000	0.35(aM)
8	Trichlorofluoromethane	101	1.887	1.887	(0.392)	1007	0.50000	0.39(a)
9	Acrolein	56	2.259	2.259	(0.469)	602	1.00000	0.52(aM)
10	Acetone	43	2.401	2.401	(0.499)	3970	1.00000	0.37(a)
11	1,1-Dichloroethene	96	2.322	2.322	(0.483)	845	0.50000	0.35(aM)
12	Isobutyl Alcohol	43	5.280	5.280	(1.097)	2907	10.0000	16.58(a)
13	Acetonitrile	39	2.667	2.667	(0.554)	1586	5.00000	1.56(a)
14	Allyl Chloride	41	2.667	2.667	(0.554)	3819	0.50000	(a)
15	Iodomethane	142	2.457	2.457	(0.511)	652	1.00000	2.55(TM)
19	Carbon Disulfide	76	2.514	2.514	(0.522)	5004	1.00000	1.54(M)
20	trans-1,2-Dichloroethene	96	3.053	3.053	(0.635)	1055	0.50000	0.20(a)
21	Vinyl Acetate	43	4.343	4.343	(0.903)	1184	1.00000	0.84(aM)
22	1,1-Dichloroethane	63	3.507	3.507	(0.729)	2024	0.50000	0.11(Ta)
23	Chloroprene	53	3.601	3.601	(0.748)	1439	0.50000	0.52(a)
24	2-Butanone	43	4.268	4.268	(0.887)	2310	1.00000	0.52(a)

25 Methacrylonitrile	41	4.493	4.493 (0.934)	633	0.50000	0.35(a)
26 2,2-Dichloropropane	77	4.178	4.178 (0.868)	1317	0.50000	0.61(M)

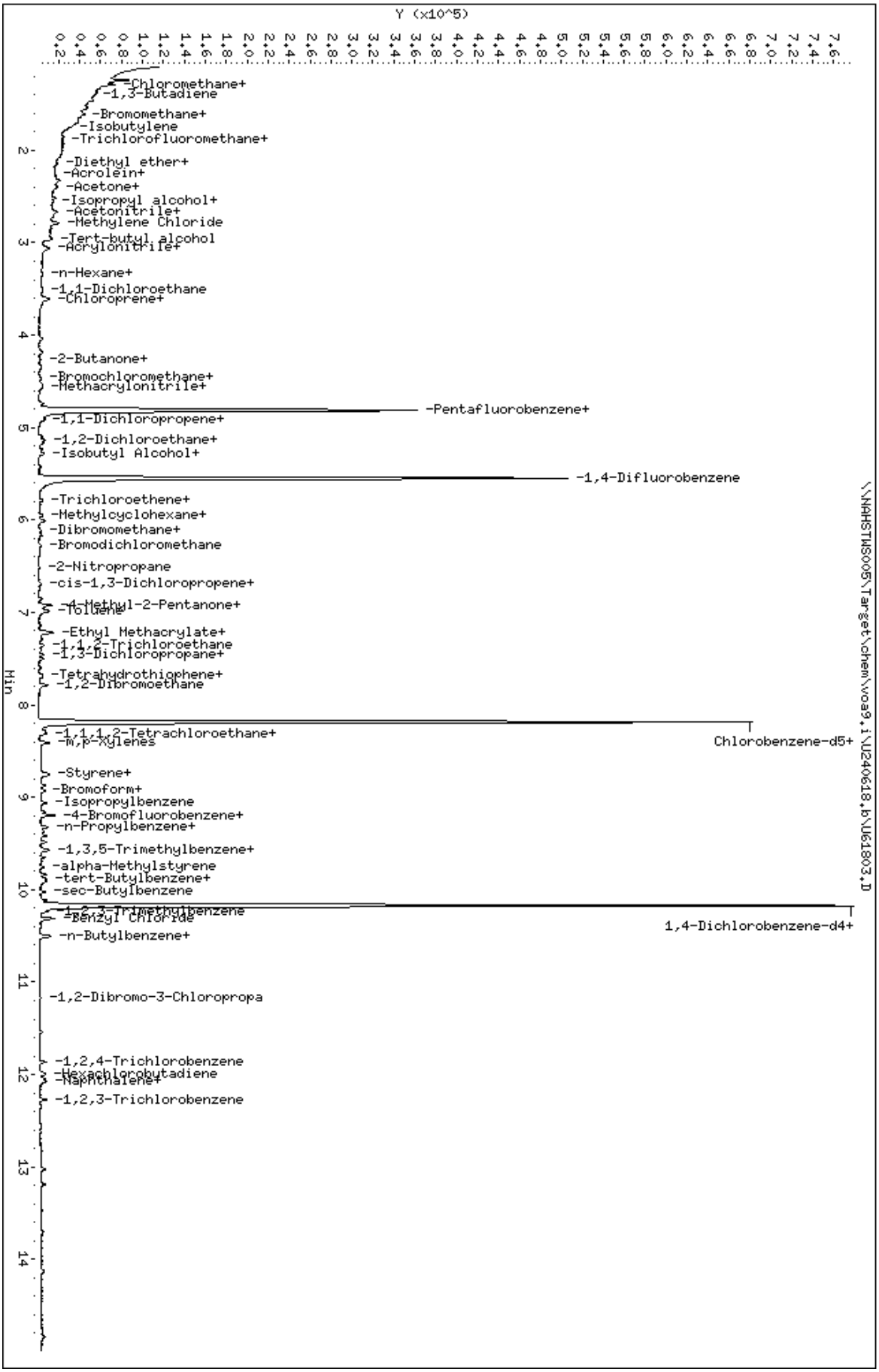
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	27 cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	1318	0.50000	0.14(a)
	28 Chloroform	83	4.568	4.568	(0.949)	2132	0.50000	0.24(a)
$	30 Dibromofluoromethane	113	4.744	4.744	(0.986)	1180	0.50000	0.68(M)
	31 1,1,1-Trichloroethane	97	4.736	4.736	(0.984)	1193	0.50000	0.45(a)
	32 1,1-Dichloropropene	75	4.916	4.916	(0.886)	1556	0.50000	0.59
	34 Carbon Tetrachloride	117	4.905	4.905	(0.884)	1321	0.50000	0.59(M)
$	35 1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	1841	0.50000	0.88(TM)
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	405224	50.0000	
	37 Benzene	78	5.134	5.134	(0.925)	4767	0.50000	0.25(a)
	38 Trichloroethene	130	5.790	5.790	(1.043)	1013	0.50000	0.23(a)
	39 Bromodichloromethane	83	6.273	6.273	(1.130)	1190	0.50000	0.68(aM)
	40 Methyl Methacrylate	41	5.824	5.824	(1.210)	347	0.50000	0.26(aM)
	43 2-Nitropropane	43	6.510	6.510	(1.353)	220	0.50000	0.49(aM)
	44 Dibromomethane	93	6.116	6.116	(1.102)	761	0.50000	0.24(aM)
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	2471	1.00000	1.45(a)
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	1443	0.50000	1.50(aM)
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	373041	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	7880	0.50000	1.22(a)
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	1549	0.50000	0.20(a)
	50 Toluene	91	6.982	6.982	(0.853)	4741	0.50000	0.50(a)
	51 trans-1,3-Dichloropropene	75	7.199	7.199	(1.297)	973	0.50000	1.13(a)
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	2046	0.50000	0.38(a)
	55 Dibromochloromethane	129	7.694	7.694	(0.940)	710	0.50000	1.15(aM)
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	772	0.50000	0.48(a)
	57 1,2-Dibromoethane	107	7.788	7.788	(0.951)	920	0.50000	0.50(a)
	58 1-Chlorohexane	55	8.185	8.185	(1.475)	4142	0.50000	0.39(a)
	59 Chlorobenzene	112	8.208	8.208	(1.003)	3601	0.50000	0.26(a)
	60 1,1,1,2-Tetrachloroethane	131	8.287	8.287	(1.012)	877	0.50000	0.48(a)
	61 Ethylbenzene	106	8.309	8.309	(1.015)	1382	0.50000	0.49(aM)
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	2556	1.00000	0.83(a)
	63 o-Xylene	106	8.748	8.748	(1.069)	1232	0.50000	0.40(aM)
	64 Styrene	104	8.763	8.763	(1.071)	2350	0.50000	0.45(a)
	66 Bromoform	173	8.920	8.920	(1.090)	540	0.50000	1.34(aM)
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	3467	0.50000	0.43(a)
$	69 4-Bromofluorobenzene	95	9.197	9.197	(1.124)	4091	0.50000	1.65(a)
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	200698	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	1563	0.50000	0.25(aM)
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	305	0.50000	0.41(aM)
	73 n-Propylbenzene	91	9.415	9.415	(0.926)	4256	0.50000	0.48(a)
	74 Bromobenzene	156	9.321	9.321	(0.916)	1586	0.50000	0.13(a)
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	2687	0.50000	0.47(a)
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	3053	0.50000	0.26(a)
	77 4-Chlorotoluene	91	9.580	9.580	(0.942)	3366	0.50000	0.38(a)
	78 tert-Butylbenzene	119	9.838	9.838	(0.967)	2408	0.50000	0.44(a)
	79 1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	5868	0.50000	1.31(a)
	81 sec-Butylbenzene	105	10.022	10.022	(0.985)	3315	0.50000	0.46(a)
	82 p-Isopropyltoluene	119	10.146	10.146	(0.997)	3095	0.50000	0.51(a)
	83 1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	2793	0.50000	0.10(a)
	84 1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	3365	0.50000	0.19(a)
	86 Benzyl Chloride	91	10.315	10.315	(1.260)	9476	0.50000	0.85(a)
	87 n-Butylbenzene	91	10.494	10.494	(1.032)	2943	0.50000	0.53(a)
	88 1,2-Dichlorobenzene	146	10.509	10.509	(1.033)	2913	0.50000	0.22(a)

89 1,2-Dibromo-3-Chloropropane	155	11.165	11.165 (1.098)	165	0.50000	0.53(aM)
90 1,2,4-Trichlorobenzene	180	11.863	11.863 (1.166)	1930	0.50000	0.32(aM)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	91 Hexachlorobutadiene	225	12.005	12.005	(1.180)	800	0.50000	0.47(aM)
	92 Naphthalene	128	12.076	12.076	(1.187)	3757	0.50000	1.15(a)
	93 1,2,3-Trichlorobenzene	180	12.275	12.275	(1.207)	1825	0.50000	0.42(aM)
	146 Methyl acetate	43	2.708	2.708	(0.563)	1862	0.50000	(aM)
	138 Freon TF	101	2.326	2.326	(0.483)	672	0.50000	0.45(aM)
	141 Cyclohexane	56	4.811	4.811	(1.000)	5880	0.50000	0.49(a)
	147 Methylcyclohexane	55	5.944	5.944	(1.071)	2112	0.50000	0.47(a)
	132 n-Butanol	56	5.839	5.839	(1.213)	655	10.0000	7.37(aM)
	136 n-Hexane	57	3.334	3.334	(0.693)	883	0.50000	0.49(Ta)
	149 Isopropyl alcohol	45	2.551	2.551	(0.530)	1837	10.0000	(a)
	166 1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	3160	0.50000	1.00(a)
	167 Ethanol	45	2.075	2.075	(0.431)	450	10.0000	(aM)
	172 tert-Butyl formate	59	5.235	5.235	(1.088)	2110	1.00000	(aM)
	151 4-Methyl-2-pentanol	45	7.218	7.218	(1.301)	9021	10.0000	6.86
	140 1,3-Butadiene	54	1.396	1.396	(0.290)	466	0.50000	0.50(TaM)
	182 Epichlorohydrin	57	6.641	6.641	(1.197)	156	2.00000	6.23(M)
M	94 1,2-Dichloroethylene (total)	96				2373	1.00000	(a)
	130 Ethyl Acetate	43	4.530	4.530	(0.942)	524	0.50000	0.22(aM)
	134 Cyclohexanone	55	9.156	9.156	(0.900)	1942	10.0000	(a)
	185 Isoprene	39	2.154	2.154	(0.448)	150	0.50000	0.16(aM)
	188 Isopropyl acetate	43	5.280	5.280	(0.951)	2497	0.50000	0.14(aM)
	150 Allyl alcohol	57	3.334	3.334	(0.693)	883	10.0000	9.85
	200 Dimethyl Disulfide	94	6.742	6.742	(0.824)	442	0.50000	1.03(aM)
	133 Ethyl Acrylate	55	5.944	5.944	(1.235)	2222	0.50000	0.50(aM)
	178 Ethylene oxide	44	1.606	1.606	(0.334)	1076	1.00000	(aM)
	203 2-Ethylhexyl Acrylate	55	12.046	12.046	(1.184)	2270	0.50000	1.49(a)
	204 Tetrahydrothiophene	60	7.675	7.675	(0.938)	1041	0.50000	0.10(aA)
	205 sec-Butyl Ether	57	7.222	7.222	(0.882)	2099	0.50000	(aM)
	187 n-Amyl acetate	43	8.935	8.935	(1.092)	1693	0.50000	(aM)
	206 2-Chloropropene	41	1.917	1.917	(0.399)	1456	0.50000	0.53(aAM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\woa9,i\U240618,b\U61803,D
Date : 18-JUN-2024 11:55
Client ID: VSTD00.5
Sample Info: VSTD00.5;VSTD00.5;1;2
Purge Volume: 5.0
Column phase: DB624

Instrument: WOA9,i
Operator: TS
Column diameter: 0.18

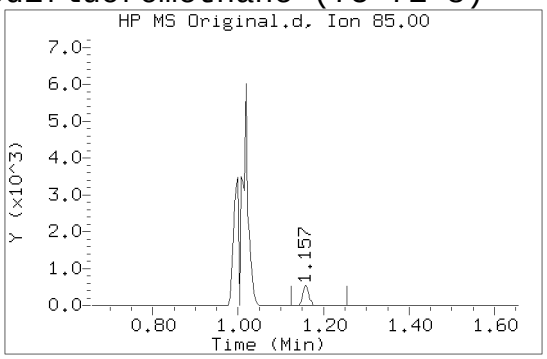
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61803.D
Inj Date : 18-JUN-2024 11:55
InstruID : VOA9.i
LabSampID : VSTD00.5

Dichlorodifluoromethane (75-71-8)

Reason Code:

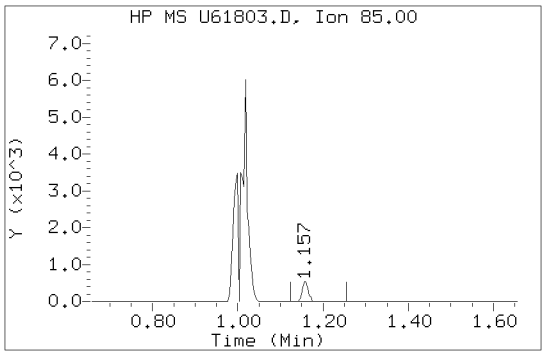
BEFORE

MASS
85
AREA
523
HEIGHT
535
26-Jun-2024
12:29
RUCHA
PATEL



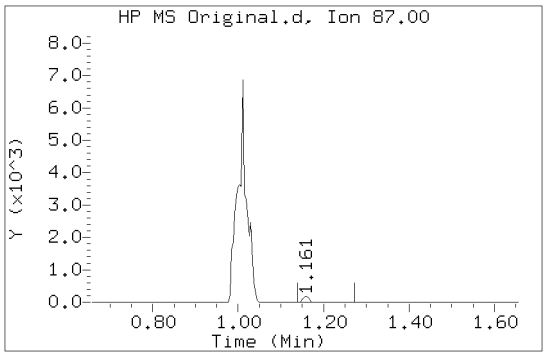
AFTER

MASS
85
AREA
523
HEIGHT
535
26-Jun-2024
12:29
RUCHA
PATEL



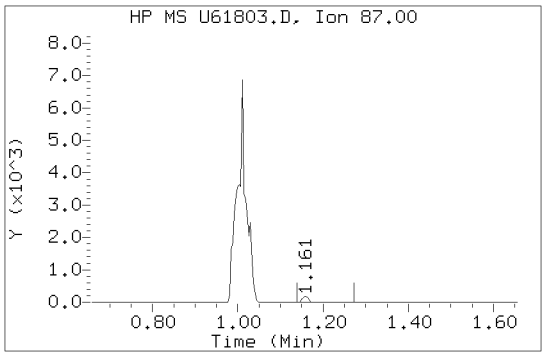
BEFORE

MASS
87
AREA
180
HEIGHT
183
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
87
AREA
180
HEIGHT
183
26-Jun-2024
12:29
RUCHA
PATEL

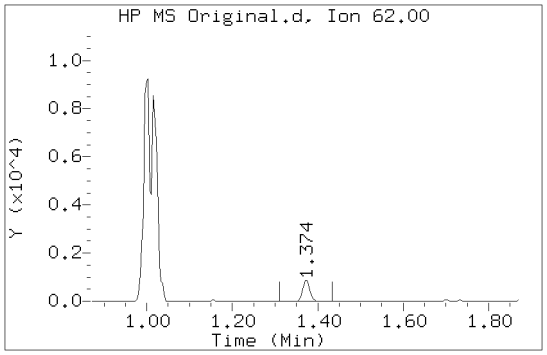


Vinyl Chloride (75-01-4)

Reason Code:

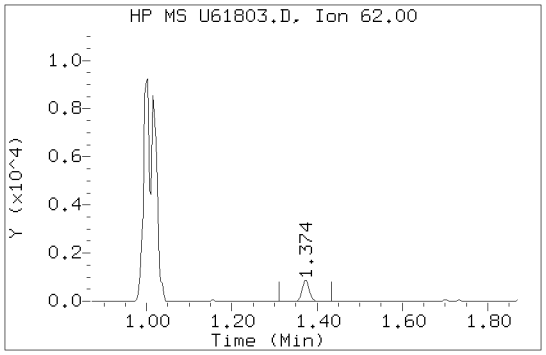
BEFORE

MASS
62
AREA
1018
HEIGHT
861
26-Jun-2024
12:29
RUCHA
PATEL



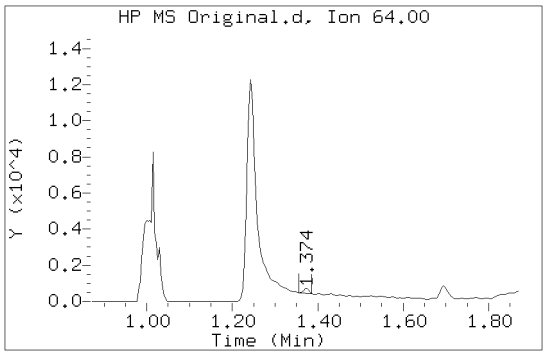
AFTER

MASS
62
AREA
1018
HEIGHT
861
26-Jun-2024
12:29
RUCHA
PATEL



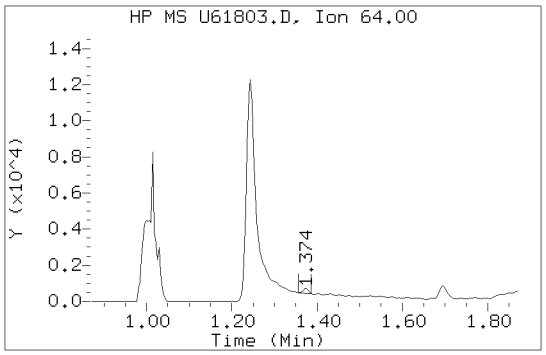
BEFORE

MASS
64
AREA
247
HEIGHT
272
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
64
AREA
247
HEIGHT
272
26-Jun-2024
12:29
RUCHA
PATEL



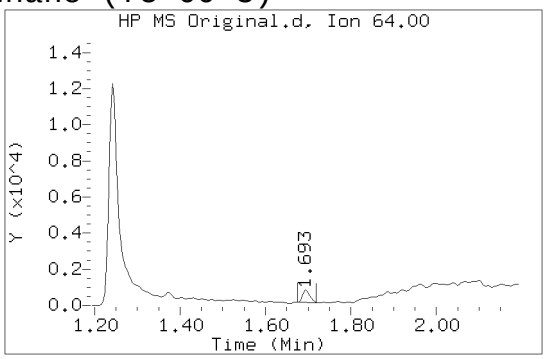
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61803.D
Inj Date : 18-JUN-2024 11:55
InstruID : VOA9.i
LabSampID : VSTD00.5

Chloroethane (75-00-3)

Reason Code:

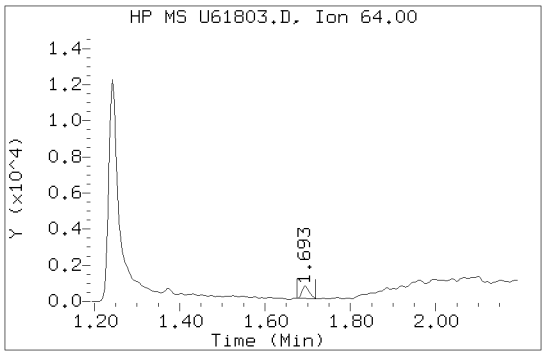
BEFORE

MASS
64
AREA
830
HEIGHT
689
26-Jun-2024
12:29
RUCHA
PATEL



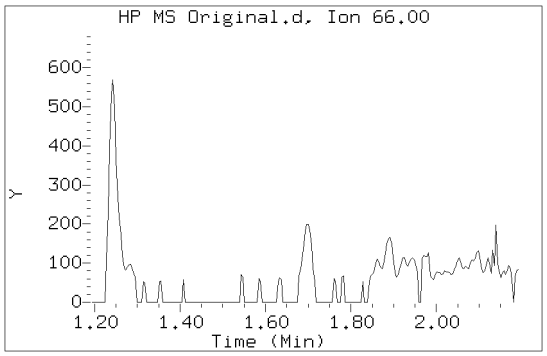
AFTER

MASS
64
AREA
830
HEIGHT
689
26-Jun-2024
12:29
RUCHA
PATEL



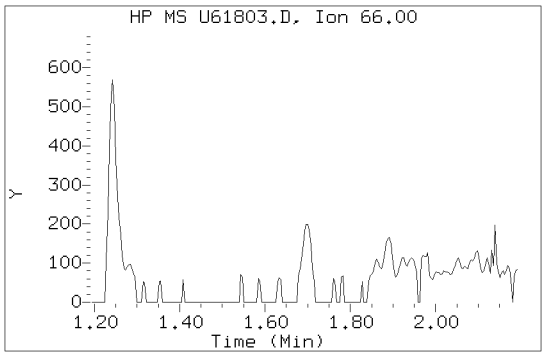
BEFORE

MASS
66
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
66
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL

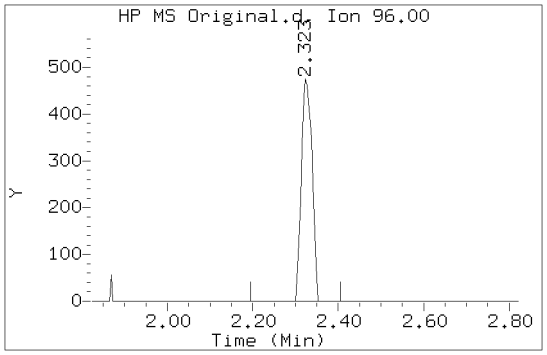


1,1-Dichloroethene (75-35-4)

Reason Code:

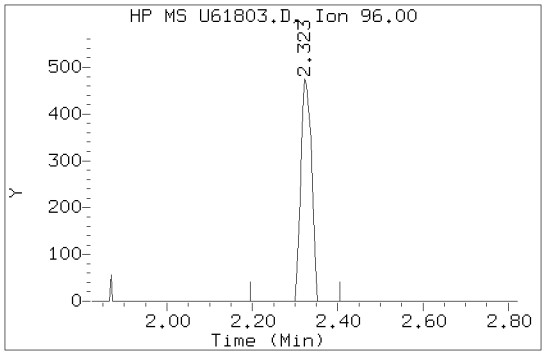
BEFORE

MASS
96
AREA
845
HEIGHT
475
26-Jun-2024
12:29
RUCHA
PATEL



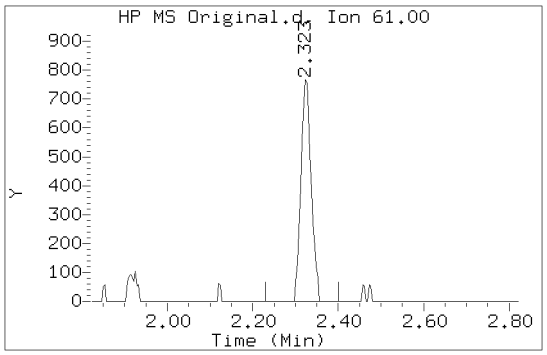
AFTER

MASS
96
AREA
845
HEIGHT
475
26-Jun-2024
12:29
RUCHA
PATEL



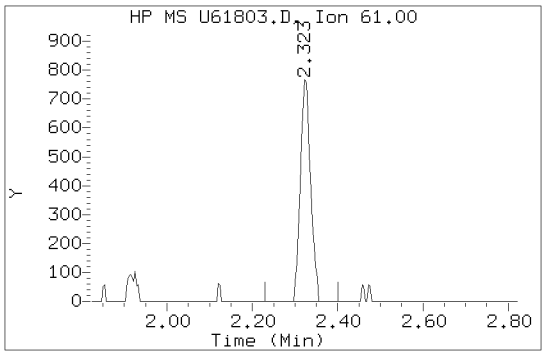
BEFORE

MASS
61
AREA
1309
HEIGHT
767
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
61
AREA
1309
HEIGHT
767
26-Jun-2024
12:29
RUCHA
PATEL



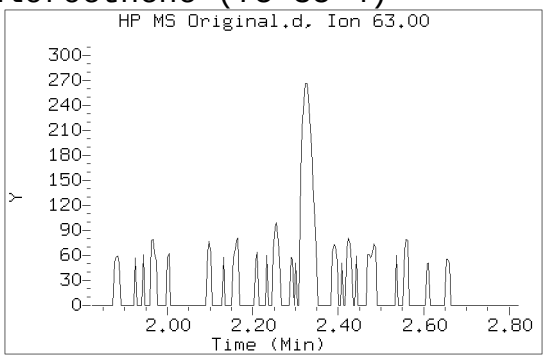
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61803.D
Inj Date : 18-JUN-2024 11:55
InstruID : VOA9.i
LabSampID : VSTD00.5

1,1-Dichloroethene (75-35-4)

Reason Code:

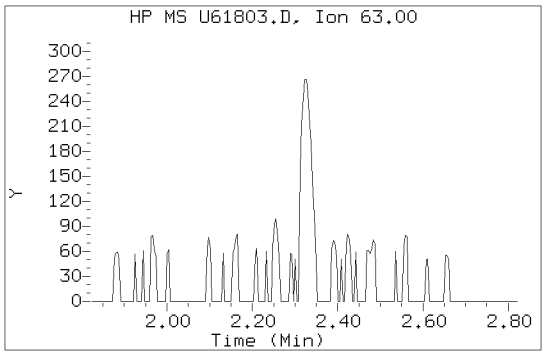
BEFORE

MASS
63
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
63
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL

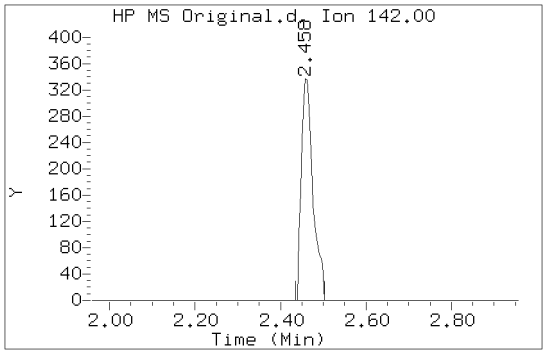


Iodomethane (74-88-4)

Reason Code:

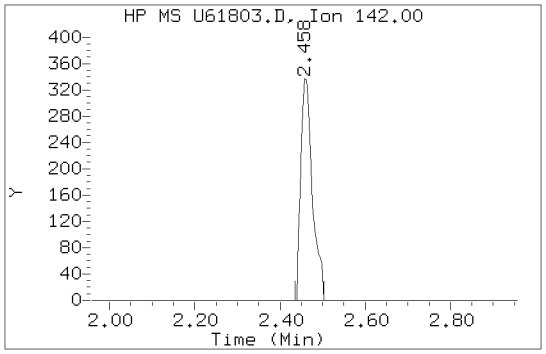
BEFORE

MASS
142
AREA
652
HEIGHT
337
26-Jun-2024
12:29
RUCHA
PATEL



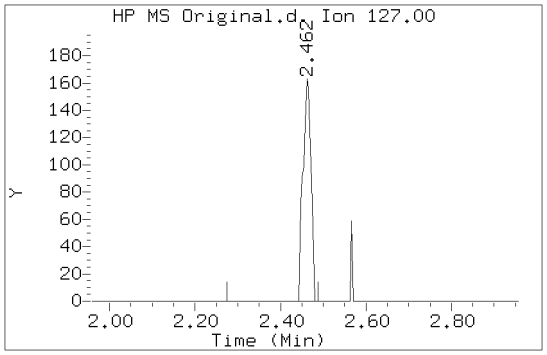
AFTER

MASS
142
AREA
652
HEIGHT
337
26-Jun-2024
12:29
RUCHA
PATEL



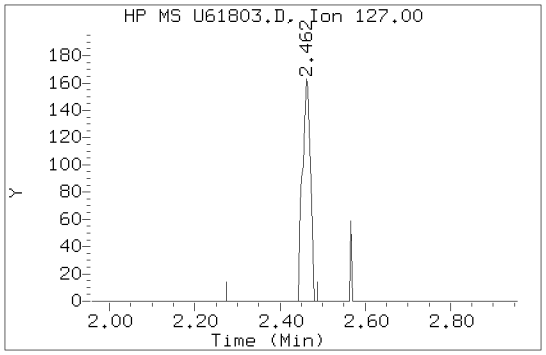
BEFORE

MASS
127
AREA
219
HEIGHT
163
26-Jun-2024
12:29
RUCHA
PATEL



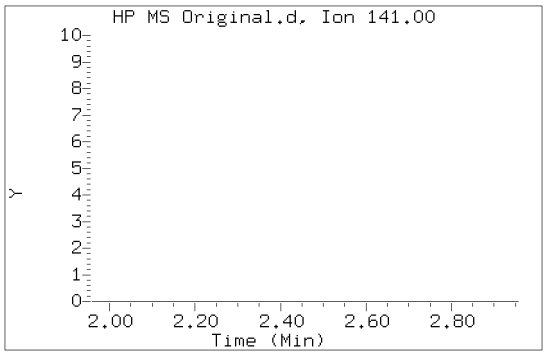
AFTER

MASS
127
AREA
219
HEIGHT
163
26-Jun-2024
12:29
RUCHA
PATEL



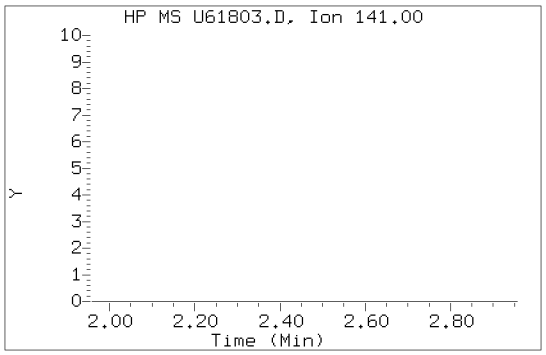
BEFORE

MASS
141
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
141
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



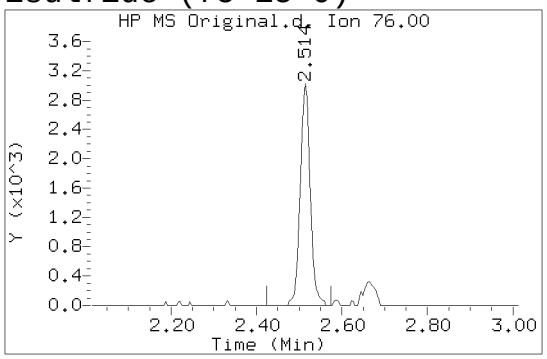
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61803.D
Inj Date : 18-JUN-2024 11:55
InstruID : VOA9.i
LabSampID : VSTD00.5

Carbon Disulfide (75-15-0)

Reason Code:

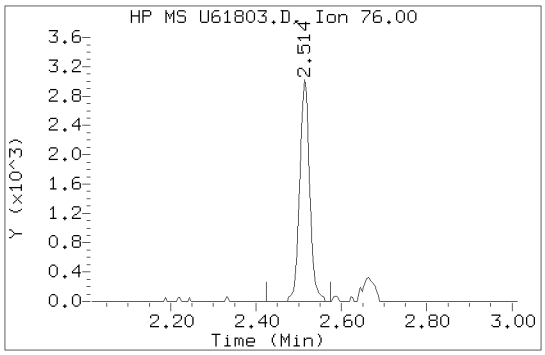
BEFORE

MASS
76
AREA
5004
HEIGHT
3023
26-Jun-2024
12:29
RUCHA
PATEL



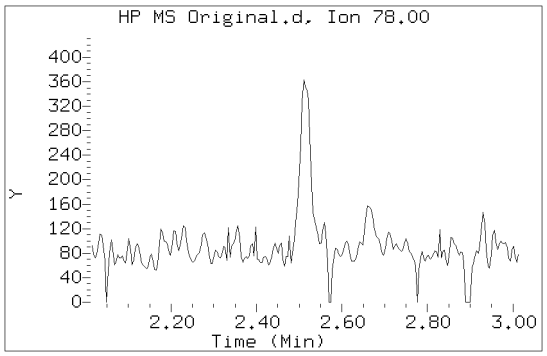
AFTER

MASS
76
AREA
5004
HEIGHT
3023
26-Jun-2024
12:29
RUCHA
PATEL



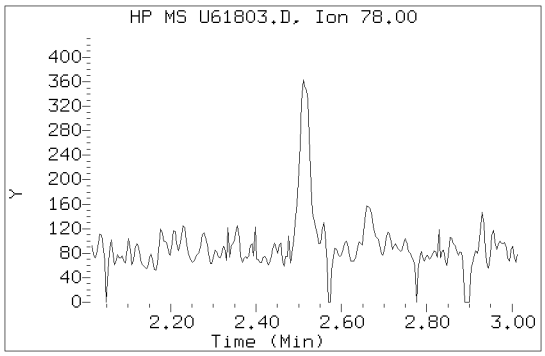
BEFORE

MASS
78
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
78
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL

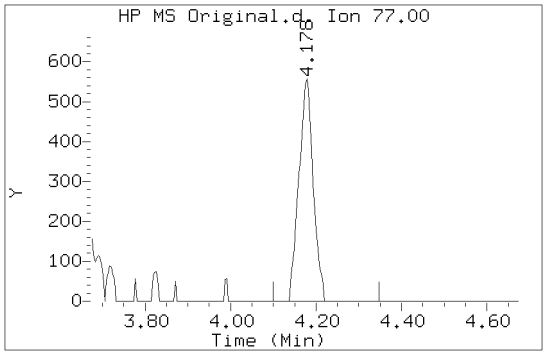


2,2-Dichloropropane (594-20-7)

Reason Code:

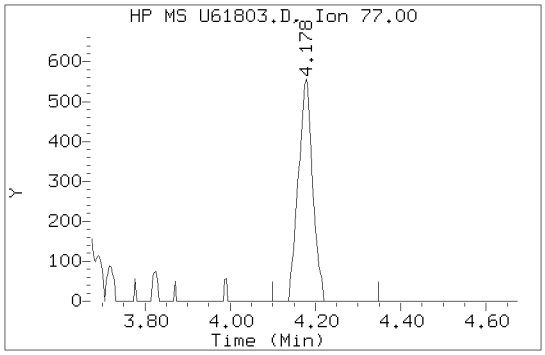
BEFORE

MASS
77
AREA
1317
HEIGHT
557
26-Jun-2024
12:29
RUCHA
PATEL



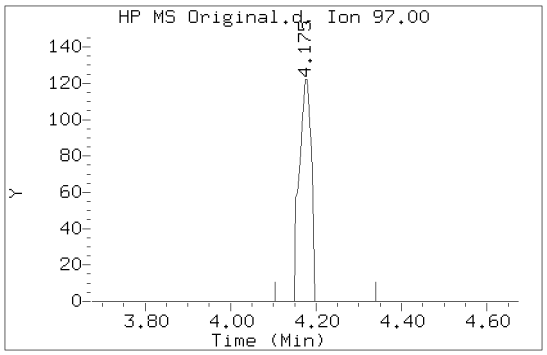
AFTER

MASS
77
AREA
1317
HEIGHT
557
26-Jun-2024
12:29
RUCHA
PATEL



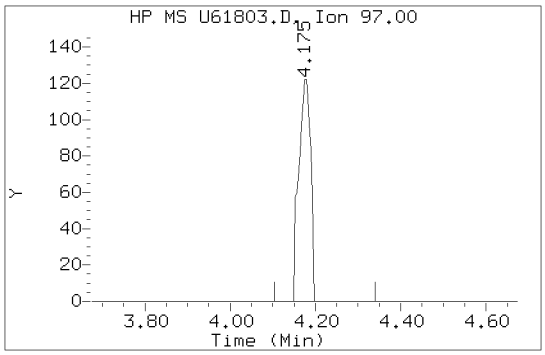
BEFORE

MASS
97
AREA
240
HEIGHT
122
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
97
AREA
240
HEIGHT
122
26-Jun-2024
12:29
RUCHA
PATEL



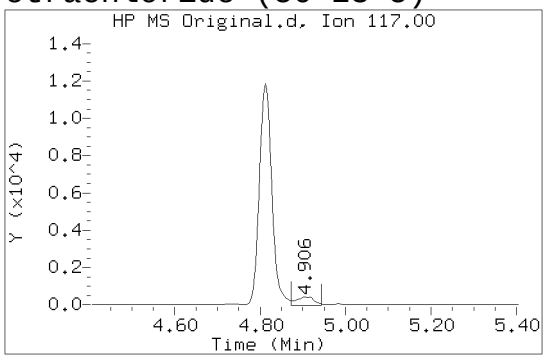
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61803.D
Inj Date : 18-JUN-2024 11:55
InstruID : VOA9.i
LabSampID : VSTD00.5

Carbon Tetrachloride (56-23-5)

Reason Code:

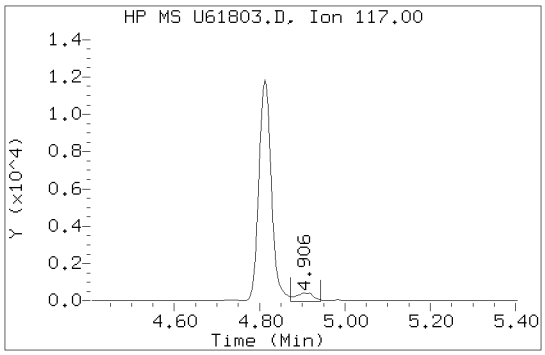
BEFORE

MASS
117
AREA
1321
HEIGHT
452
26-Jun-2024
12:29
RUCHA
PATEL



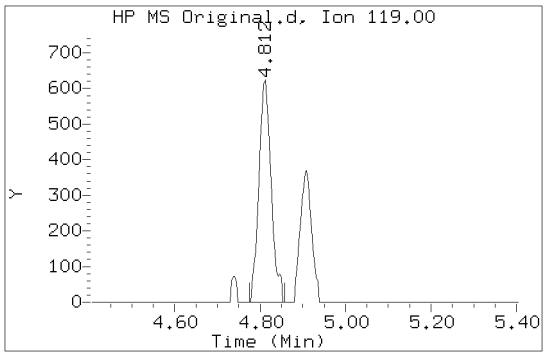
AFTER

MASS
117
AREA
1321
HEIGHT
452
26-Jun-2024
12:29
RUCHA
PATEL



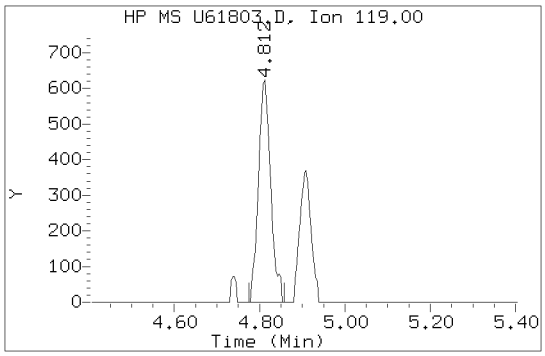
BEFORE

MASS
119
AREA
1245
HEIGHT
624
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
119
AREA
1245
HEIGHT
624
26-Jun-2024
12:29
RUCHA
PATEL

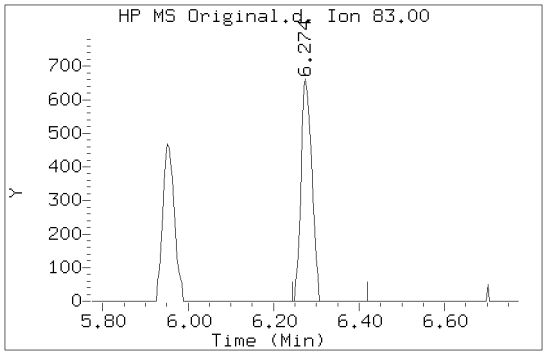


Bromodichloromethane (75-27-4)

Reason Code:

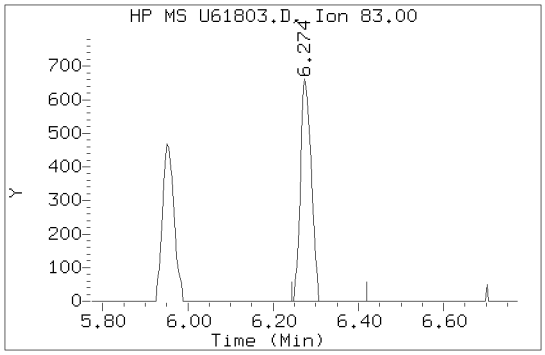
BEFORE

MASS
83
AREA
1190
HEIGHT
662
26-Jun-2024
12:29
RUCHA
PATEL



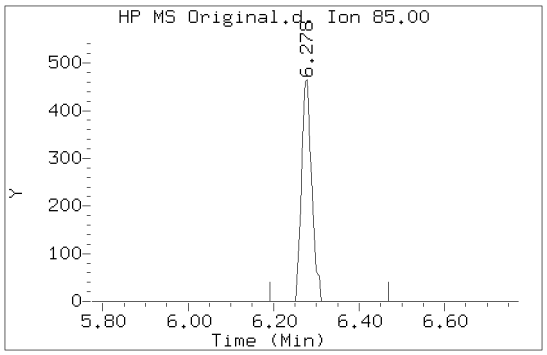
AFTER

MASS
83
AREA
1190
HEIGHT
662
26-Jun-2024
12:29
RUCHA
PATEL



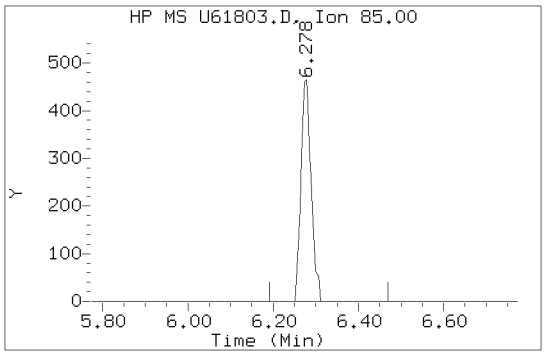
BEFORE

MASS
85
AREA
787
HEIGHT
465
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
85
AREA
787
HEIGHT
465
26-Jun-2024
12:29
RUCHA
PATEL



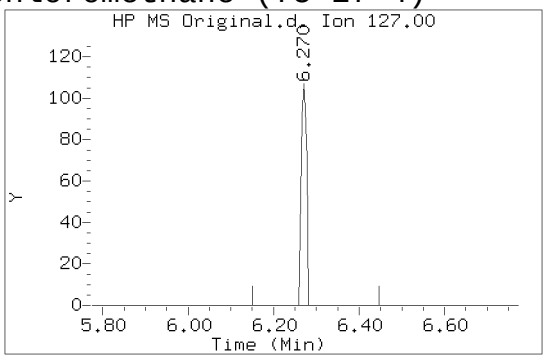
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61803.D
Inj Date : 18-JUN-2024 11:55
InstruID : VOA9.i
LabSampID : VSTD00.5

Bromodichloromethane (75-27-4)

Reason Code:

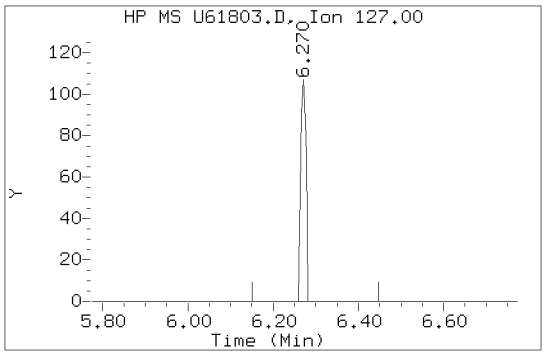
BEFORE

MASS
127
AREA
93
HEIGHT
107
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
127
AREA
93
HEIGHT
107
26-Jun-2024
12:29
RUCHA
PATEL

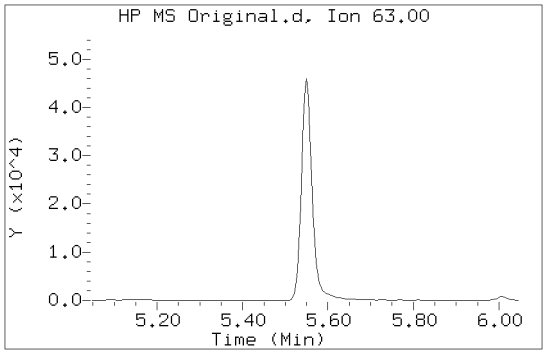


1,2-Dichloropropane (78-87-5)

Reason Code:

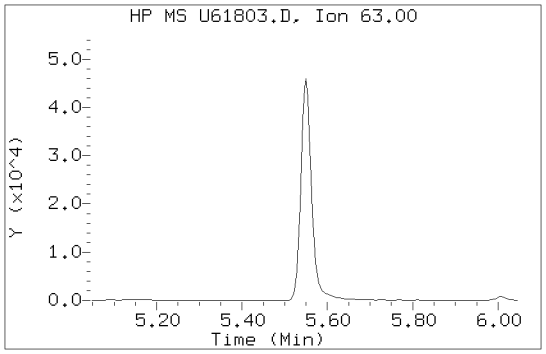
BEFORE

MASS
63
AREA
920
HEIGHT
750
26-Jun-2024
12:29
RUCHA
PATEL



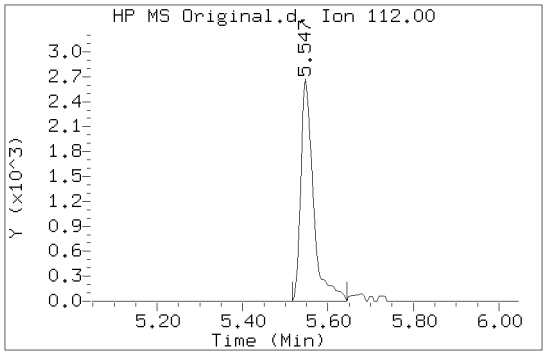
AFTER

MASS
63
AREA
920
HEIGHT
750
26-Jun-2024
12:29
RUCHA
PATEL



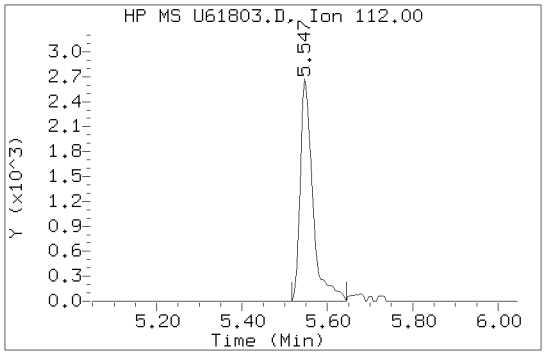
BEFORE

MASS
112
AREA
5553
HEIGHT
2674
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
112
AREA
5553
HEIGHT
2674
26-Jun-2024
12:29
RUCHA
PATEL

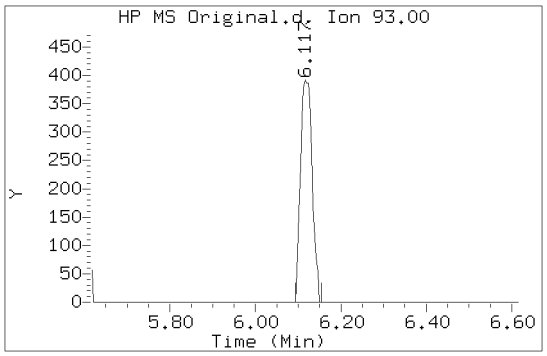


Dibromomethane (74-95-3)

Reason Code:

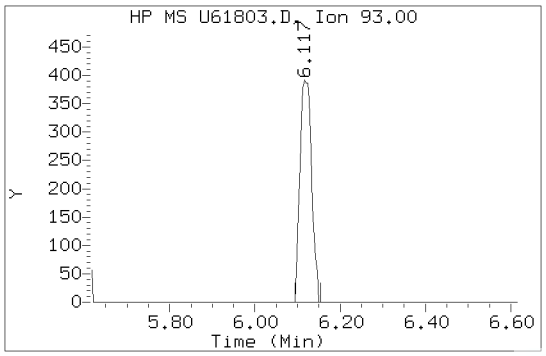
BEFORE

MASS
93
AREA
761
HEIGHT
392
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
93
AREA
761
HEIGHT
392
26-Jun-2024
12:29
RUCHA
PATEL

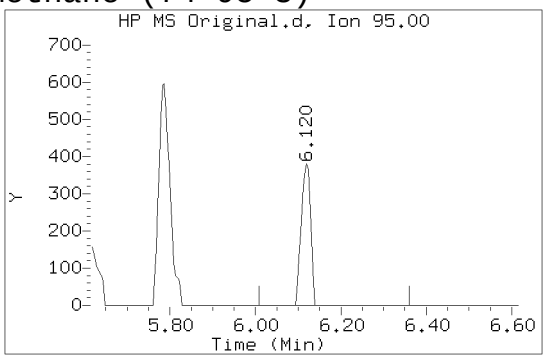


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61803.D
Inj Date : 18-JUN-2024 11:55
InstruID : VOA9.i
LabSampID : VSTD00.5

Dibromomethane (74-95-3)

BEFORE

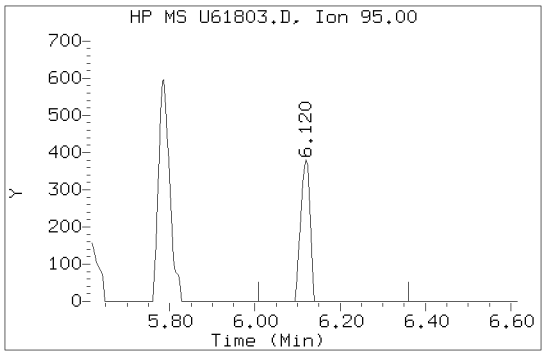
MASS
95
AREA
593
HEIGHT
381
26-Jun-2024
12:29
RUCHA
PATEL



Reason Code:

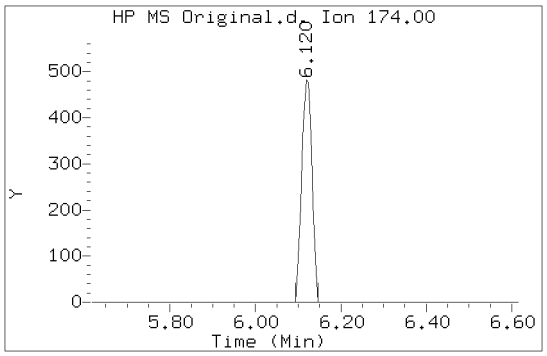
AFTER

MASS
95
AREA
593
HEIGHT
381
26-Jun-2024
12:29
RUCHA
PATEL



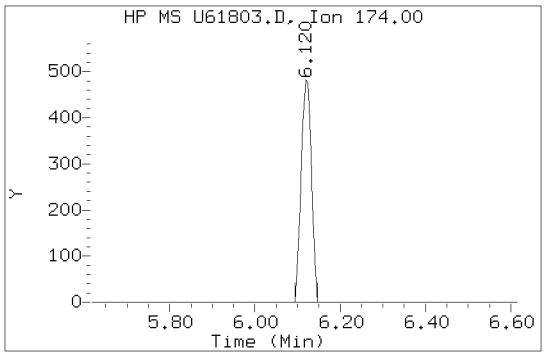
BEFORE

MASS
174
AREA
821
HEIGHT
482
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
174
AREA
821
HEIGHT
482
26-Jun-2024
12:29
RUCHA
PATEL

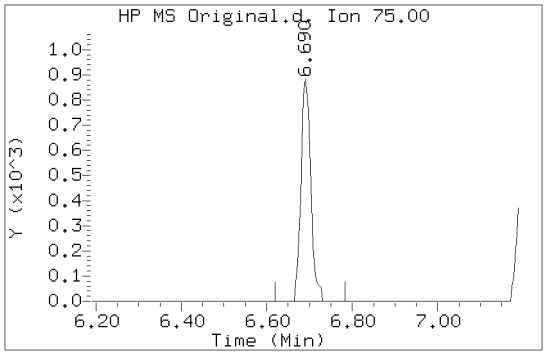


cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

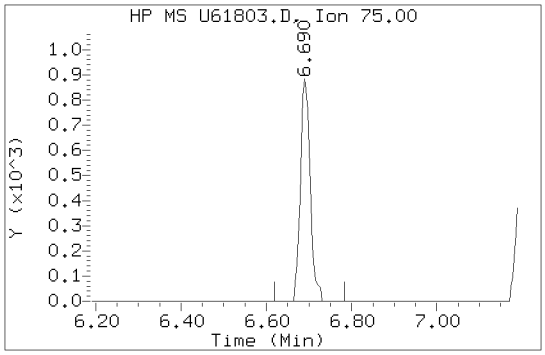
BEFORE

MASS
75
AREA
1443
HEIGHT
884
26-Jun-2024
12:29
RUCHA
PATEL



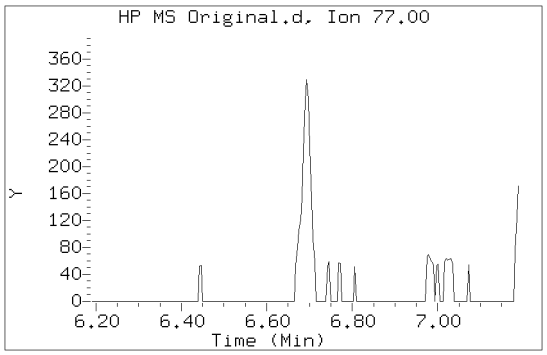
AFTER

MASS
75
AREA
1443
HEIGHT
884
26-Jun-2024
12:29
RUCHA
PATEL



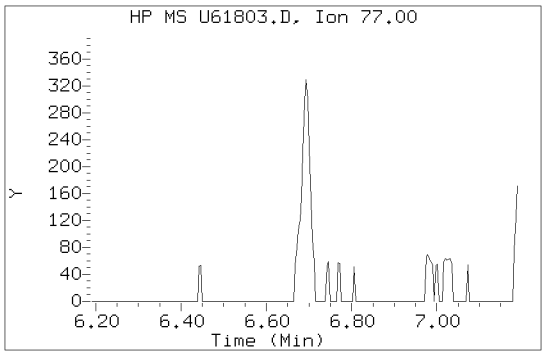
BEFORE

MASS
77
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
77
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



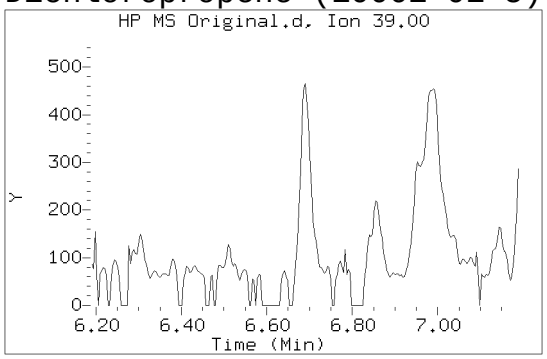
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61803.D
Inj Date : 18-JUN-2024 11:55
InstruID : VOA9.i
LabSampID : VSTD00.5

cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

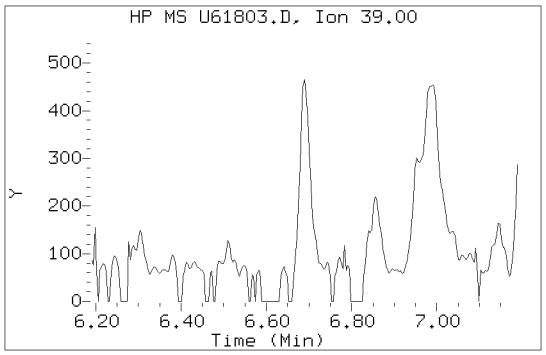
BEFORE

MASS
39
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
39
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL

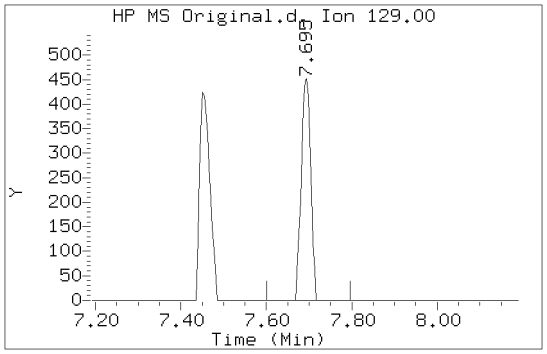


Dibromochloromethane (124-48-1)

Reason Code:

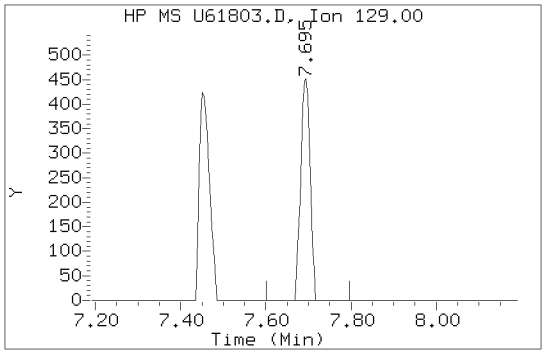
BEFORE

MASS
129
AREA
710
HEIGHT
452
26-Jun-2024
12:29
RUCHA
PATEL



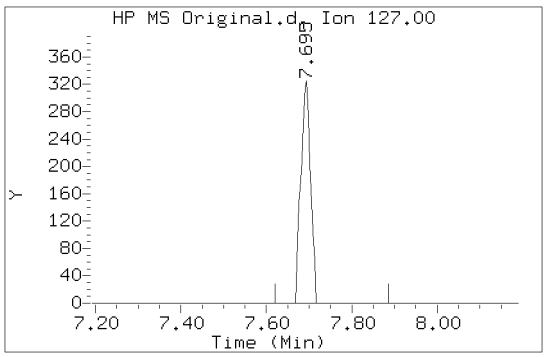
AFTER

MASS
129
AREA
710
HEIGHT
452
26-Jun-2024
12:29
RUCHA
PATEL



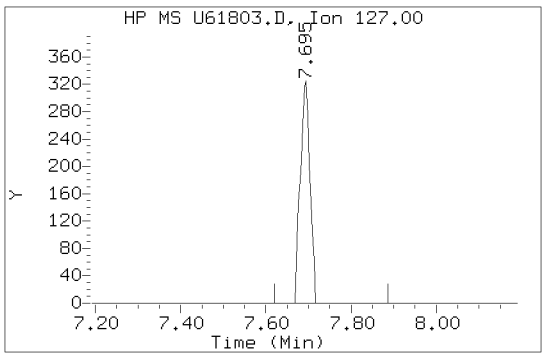
BEFORE

MASS
127
AREA
521
HEIGHT
325
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
127
AREA
521
HEIGHT
325
26-Jun-2024
12:29
RUCHA
PATEL

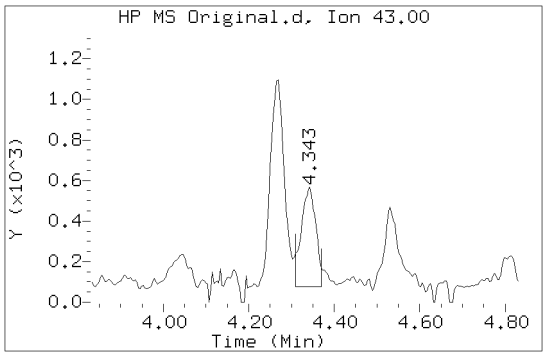


Vinyl Acetate (108-05-4)

Reason Code:

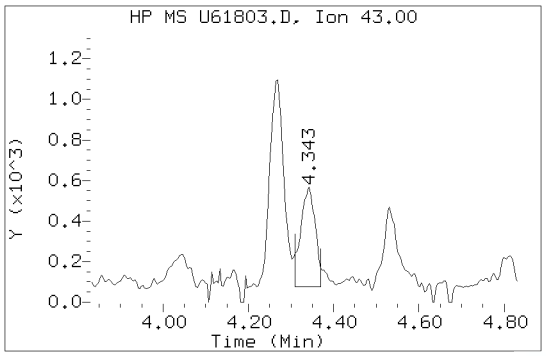
BEFORE

MASS
43
AREA
1184
HEIGHT
491
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
43
AREA
1184
HEIGHT
491
26-Jun-2024
12:29
RUCHA
PATEL



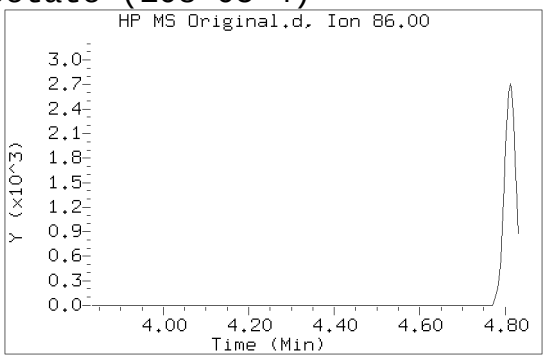
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61803.D
Inj Date : 18-JUN-2024 11:55
InstruID : VOA9.i
LabSampID : VSTD00.5

Vinyl Acetate (108-05-4)

Reason Code:

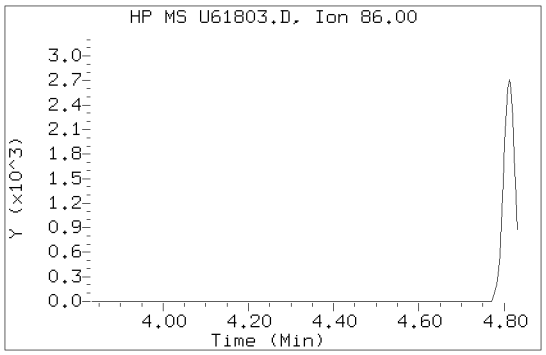
BEFORE

MASS
86
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
86
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL

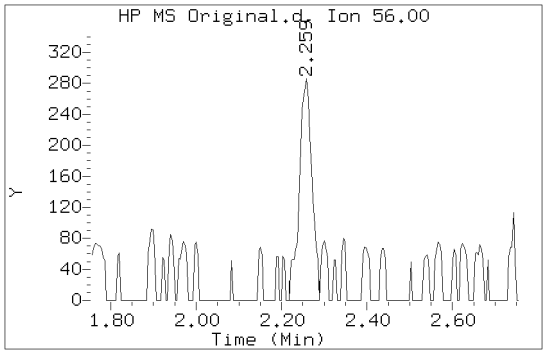


Acrolein (107-02-8)

Reason Code:

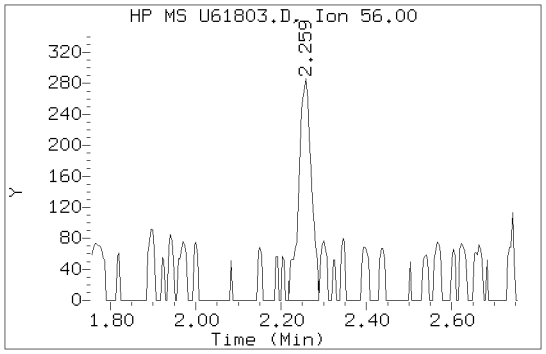
BEFORE

MASS
56
AREA
602
HEIGHT
286
26-Jun-2024
12:29
RUCHA
PATEL



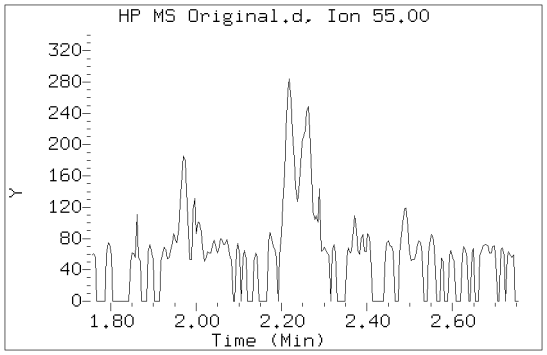
AFTER

MASS
56
AREA
602
HEIGHT
286
26-Jun-2024
12:29
RUCHA
PATEL



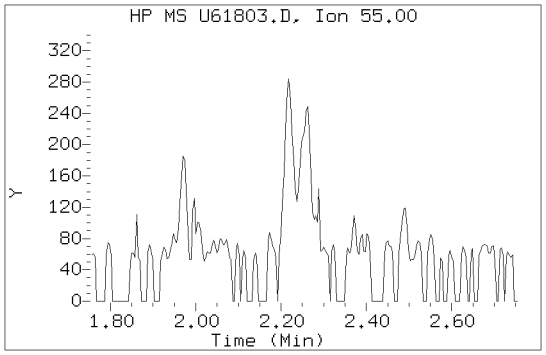
BEFORE

MASS
55
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
55
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL

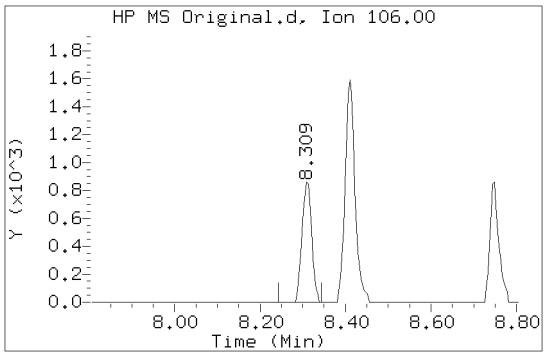


Ethylbenzene (100-41-4)

Reason Code:

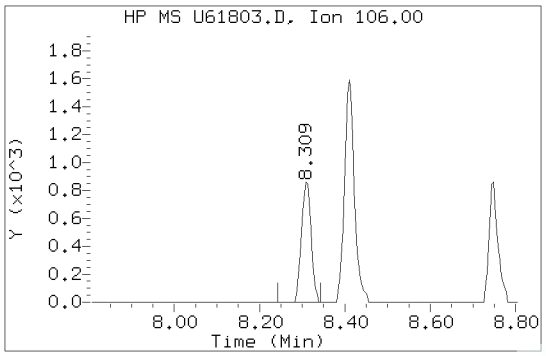
BEFORE

MASS
106
AREA
1382
HEIGHT
861
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
106
AREA
1382
HEIGHT
861
26-Jun-2024
12:29
RUCHA
PATEL



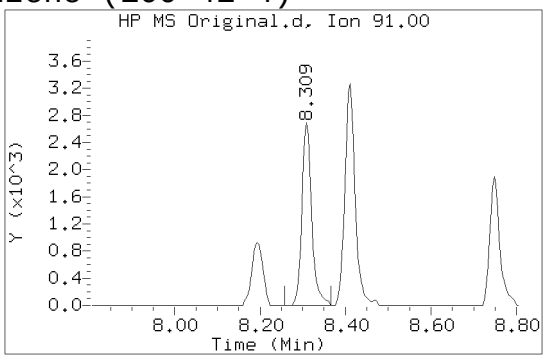
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61803.D
Inj Date : 18-JUN-2024 11:55
InstruID : VOA9.i
LabSampID : VSTD00.5

Ethylbenzene (100-41-4)

Reason Code:

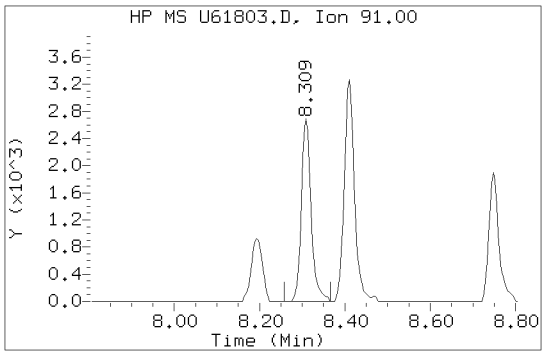
BEFORE

MASS
91
AREA
4346
HEIGHT
2694
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
91
AREA
4346
HEIGHT
2694
26-Jun-2024
12:29
RUCHA
PATEL

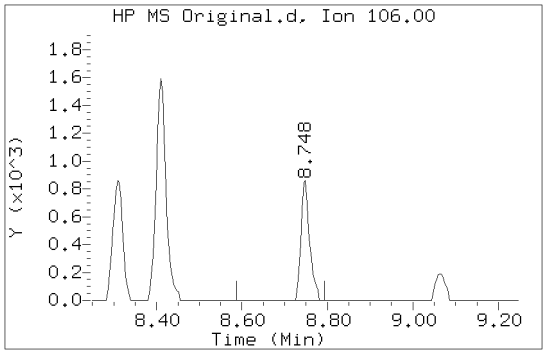


o-Xylene (95-47-6)

Reason Code:

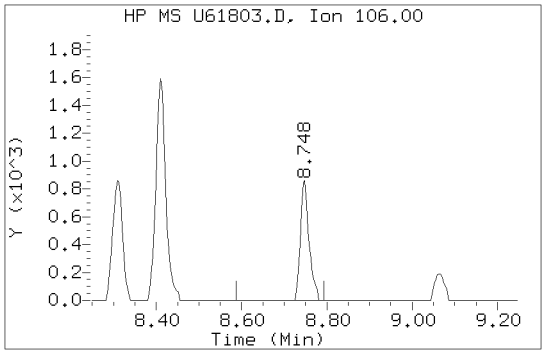
BEFORE

MASS
106
AREA
1232
HEIGHT
860
26-Jun-2024
12:29
RUCHA
PATEL



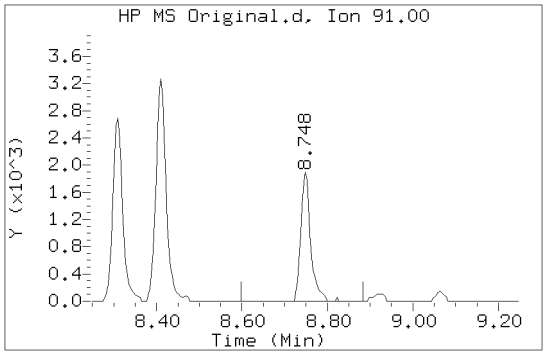
AFTER

MASS
106
AREA
1232
HEIGHT
860
26-Jun-2024
12:29
RUCHA
PATEL



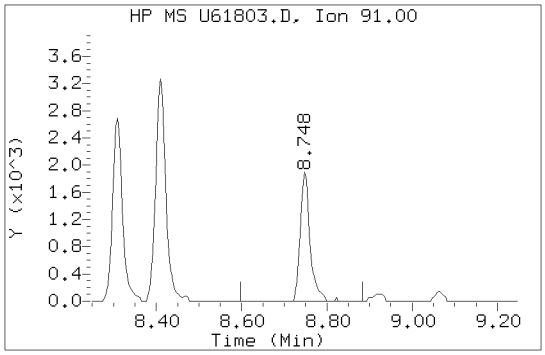
BEFORE

MASS
91
AREA
3100
HEIGHT
1901
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
91
AREA
3100
HEIGHT
1901
26-Jun-2024
12:29
RUCHA
PATEL

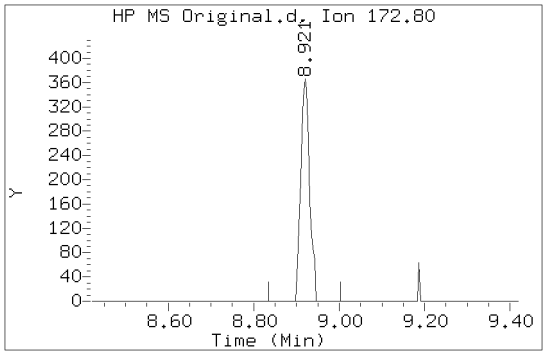


Bromoform (75-25-2)

Reason Code:

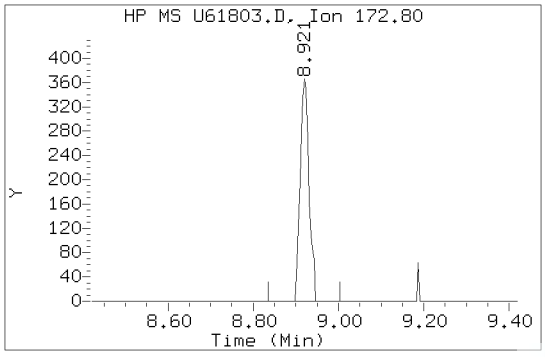
BEFORE

MASS
172.8
AREA
540
HEIGHT
366
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
172.8
AREA
540
HEIGHT
366
26-Jun-2024
12:29
RUCHA
PATEL



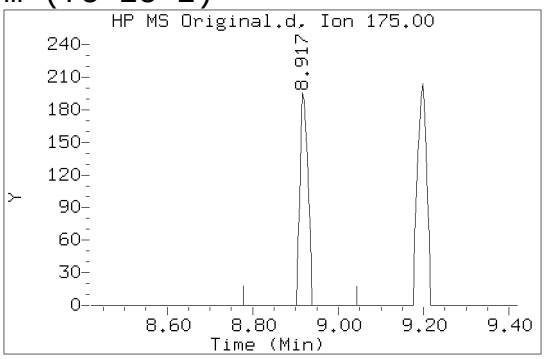
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61803.D
Inj Date : 18-JUN-2024 11:55
InstruID : VOA9.i
LabSampID : VSTD00.5

Bromoform (75-25-2)

Reason Code:

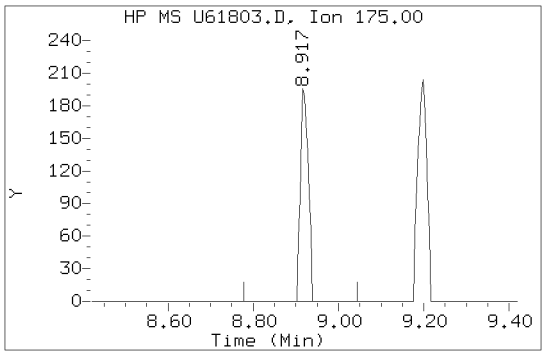
BEFORE

MASS
175
AREA
260
HEIGHT
196
26-Jun-2024
12:29
RUCHA
PATEL



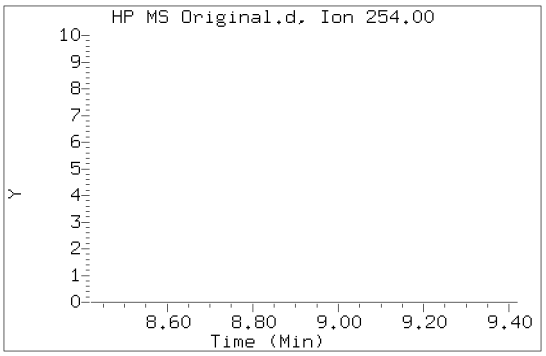
AFTER

MASS
175
AREA
260
HEIGHT
196
26-Jun-2024
12:29
RUCHA
PATEL



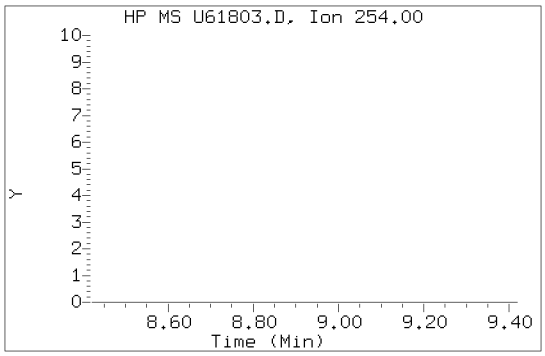
BEFORE

MASS
254
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
254
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL

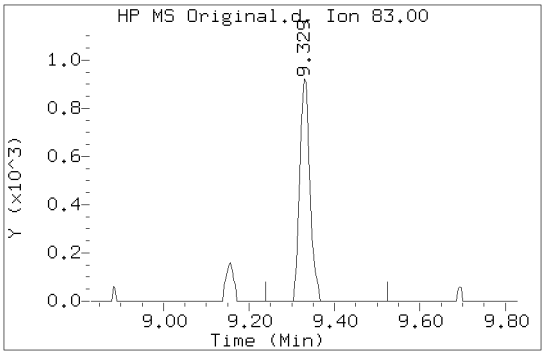


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

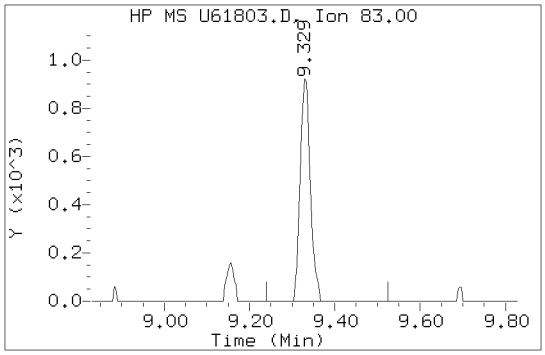
BEFORE

MASS
83
AREA
1563
HEIGHT
922
26-Jun-2024
12:29
RUCHA
PATEL



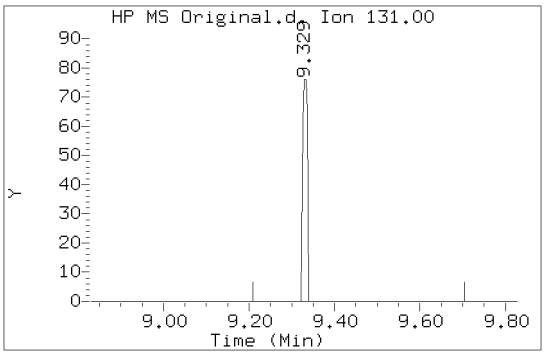
AFTER

MASS
83
AREA
1563
HEIGHT
922
26-Jun-2024
12:29
RUCHA
PATEL



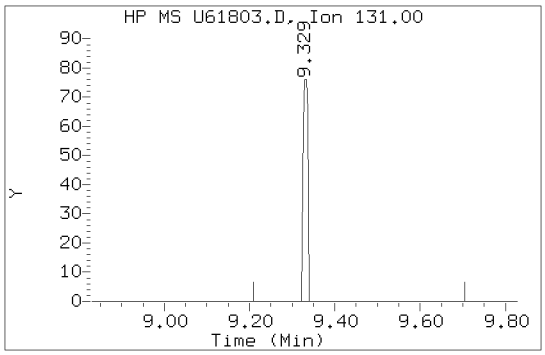
BEFORE

MASS
131
AREA
62
HEIGHT
76
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
131
AREA
62
HEIGHT
76
26-Jun-2024
12:29
RUCHA
PATEL



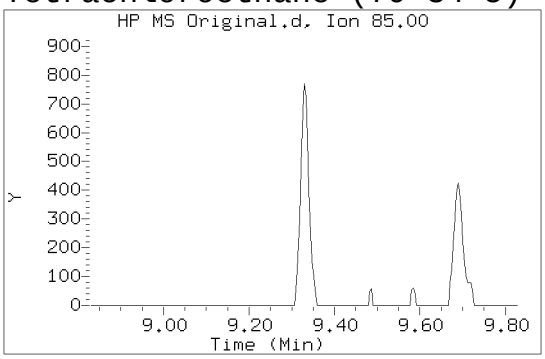
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61803.D
Inj Date : 18-JUN-2024 11:55
InstruID : VOA9.i
LabSampID : VSTD00.5

1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

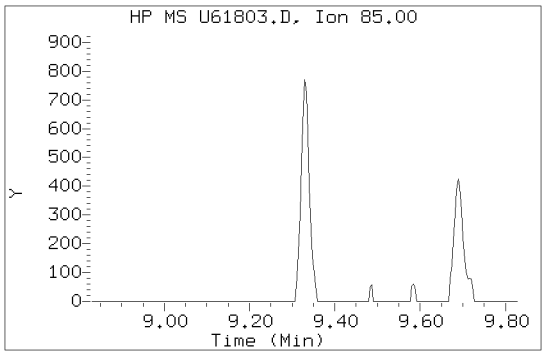
BEFORE

MASS
85
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
85
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL

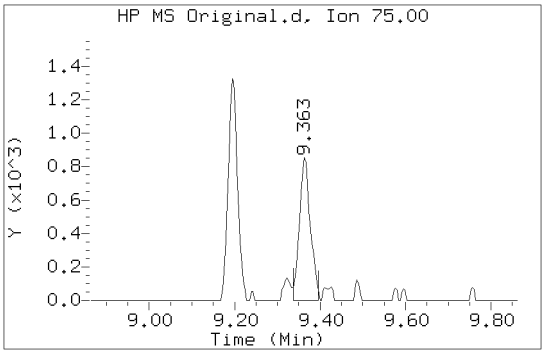


1,2,3-Trichloropropane (96-18-4)

Reason Code:

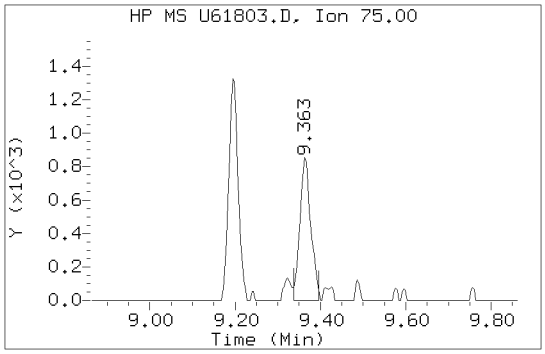
BEFORE

MASS
75
AREA
1563
HEIGHT
856
26-Jun-2024
12:29
RUCHA
PATEL



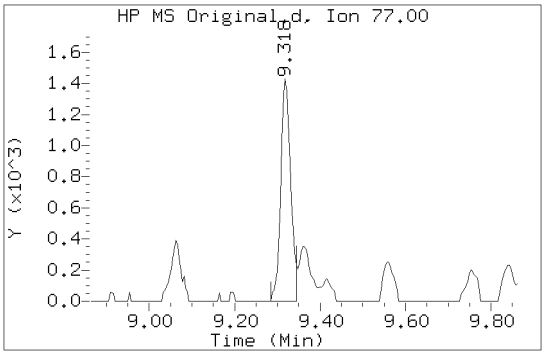
AFTER

MASS
75
AREA
1563
HEIGHT
856
26-Jun-2024
12:29
RUCHA
PATEL



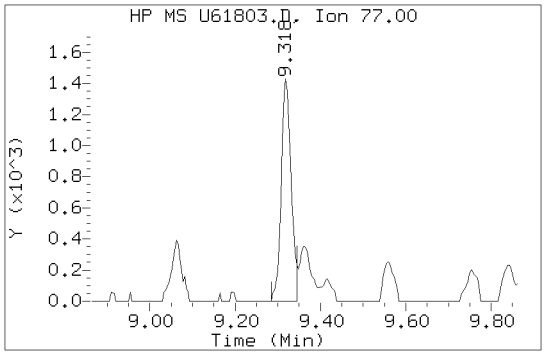
BEFORE

MASS
77
AREA
2306
HEIGHT
1429
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
77
AREA
2306
HEIGHT
1429
26-Jun-2024
12:29
RUCHA
PATEL

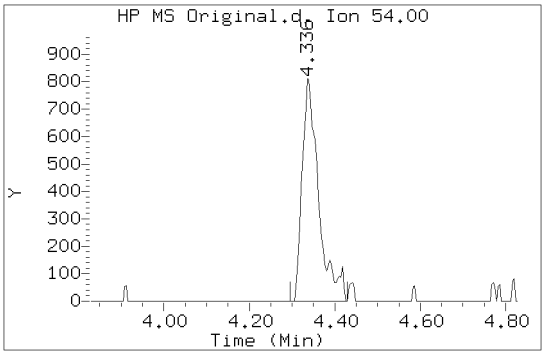


Propionitrile (107-12-0)

Reason Code:

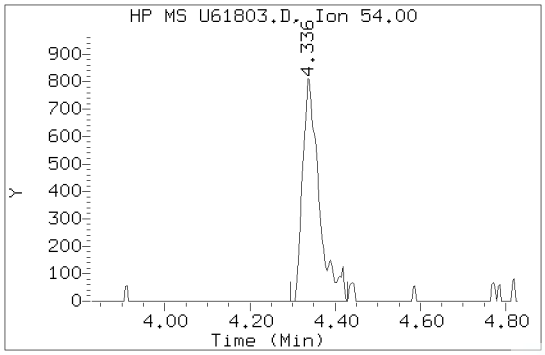
BEFORE

MASS
54
AREA
2213
HEIGHT
810
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
54
AREA
2213
HEIGHT
810
26-Jun-2024
12:29
RUCHA
PATEL



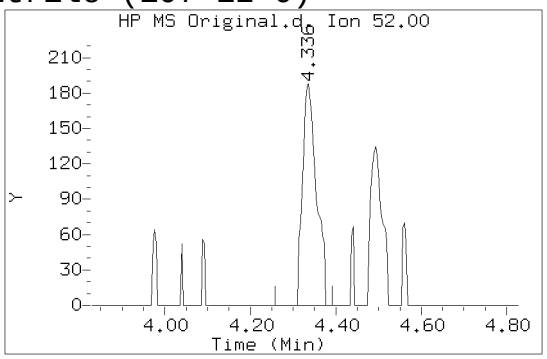
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61803.D
Inj Date : 18-JUN-2024 11:55
InstruID : VOA9.i
LabSampID : VSTD00.5

Propionitrile (107-12-0)

Reason Code:

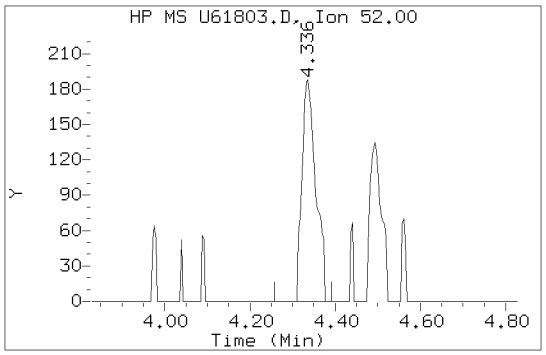
BEFORE

MASS
52
AREA
431
HEIGHT
188
26-Jun-2024
12:29
RUCHA
PATEL



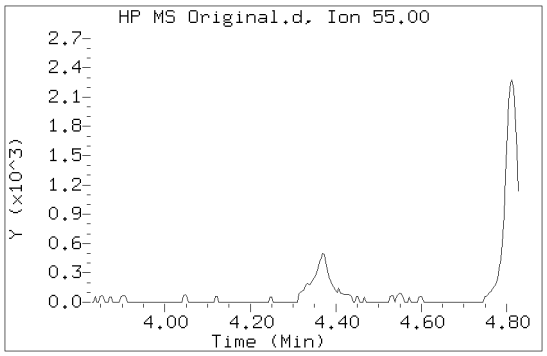
AFTER

MASS
52
AREA
431
HEIGHT
188
26-Jun-2024
12:29
RUCHA
PATEL



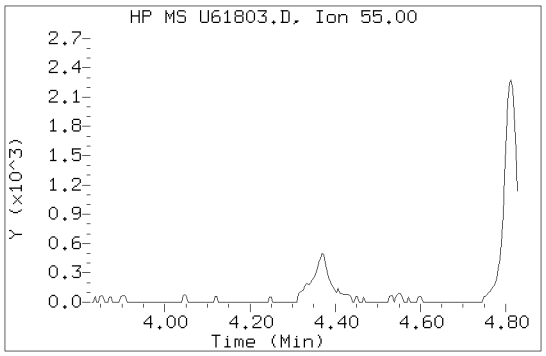
BEFORE

MASS
55
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
55
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL

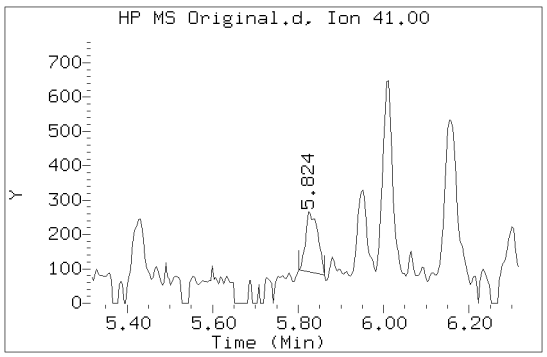


Methyl Methacrylate (80-62-6)

Reason Code:

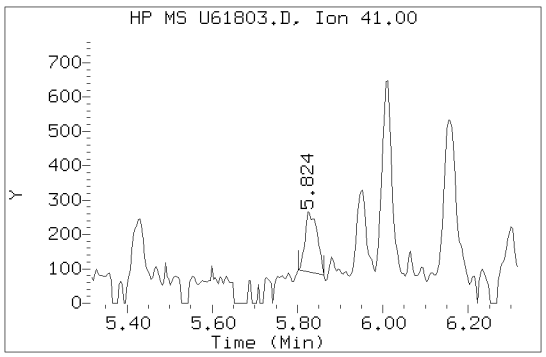
BEFORE

MASS
41
AREA
347
HEIGHT
173
26-Jun-2024
12:29
RUCHA
PATEL



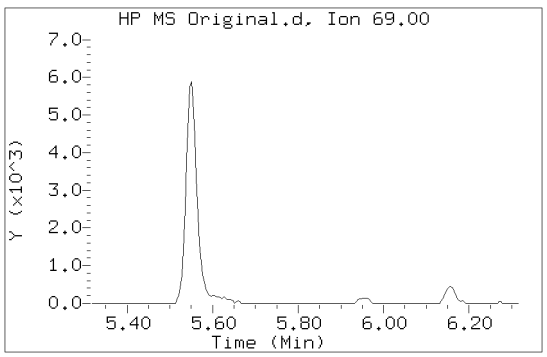
AFTER

MASS
41
AREA
347
HEIGHT
173
26-Jun-2024
12:29
RUCHA
PATEL



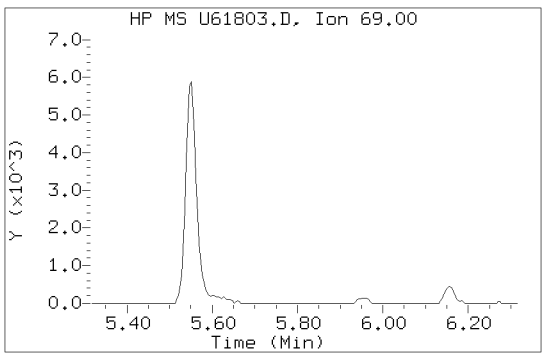
BEFORE

MASS
69
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
69
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



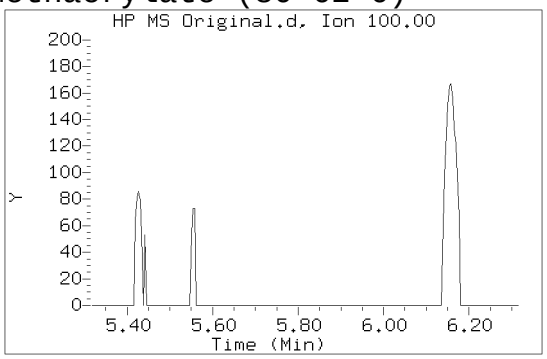
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61803.D
Inj Date : 18-JUN-2024 11:55
InstruID : VOA9.i
LabSampID : VSTD00.5

Methyl Methacrylate (80-62-6)

Reason Code:

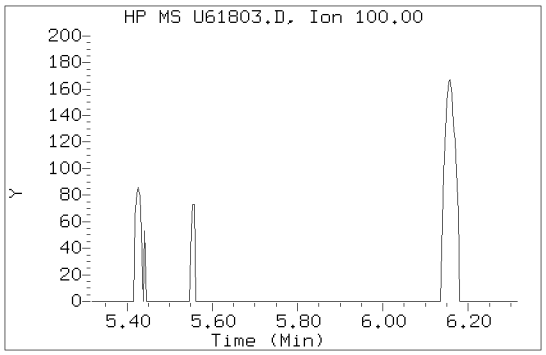
BEFORE

MASS
100
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
100
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL

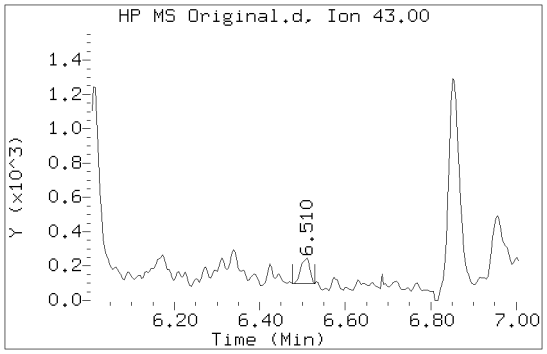


2-Nitropropane (79-46-9)

Reason Code:

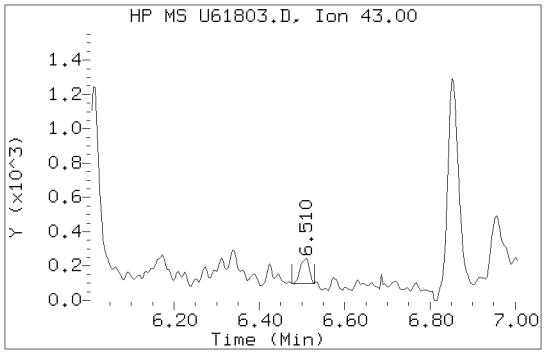
BEFORE

MASS
43
AREA
220
HEIGHT
149
26-Jun-2024
12:29
RUCHA
PATEL



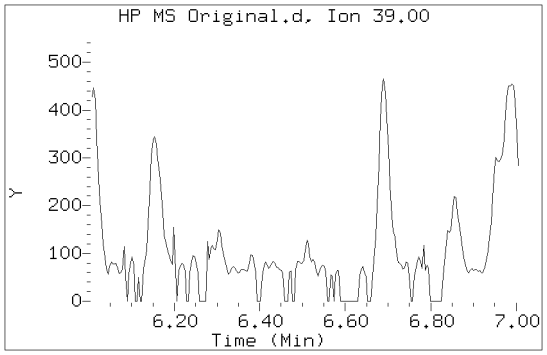
AFTER

MASS
43
AREA
220
HEIGHT
149
26-Jun-2024
12:29
RUCHA
PATEL



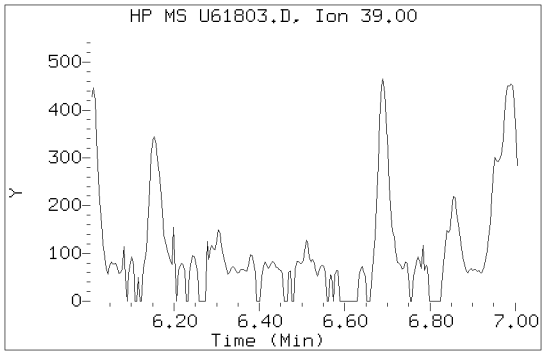
BEFORE

MASS
39
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
39
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL

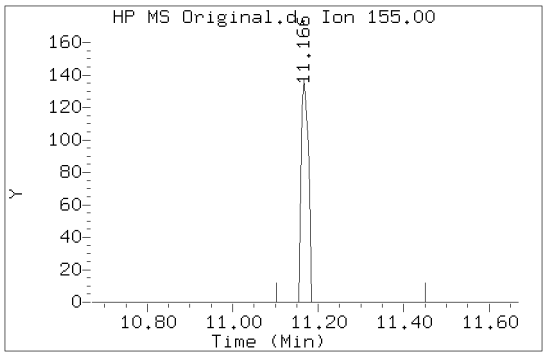


1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

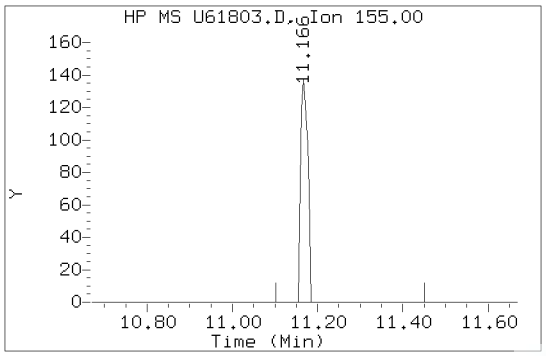
BEFORE

MASS
155
AREA
165
HEIGHT
137
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
155
AREA
165
HEIGHT
137
26-Jun-2024
12:29
RUCHA
PATEL



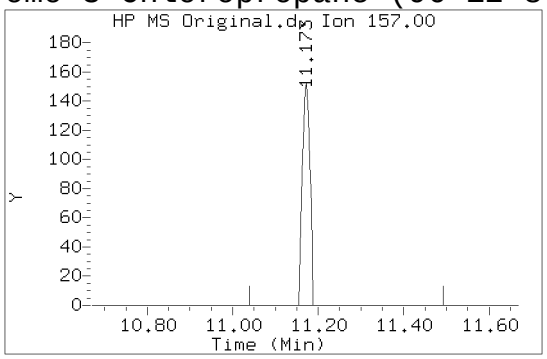
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61803.D
Inj Date : 18-JUN-2024 11:55
InstruID : VOA9.i
LabSampID : VSTD00.5

1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

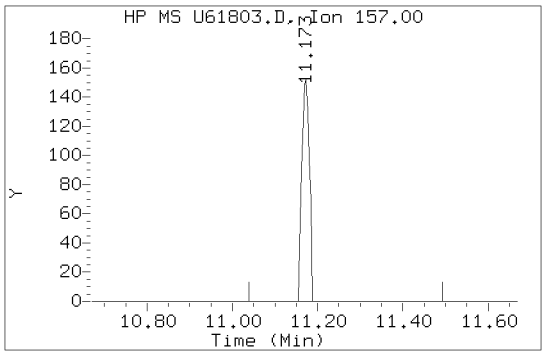
BEFORE

MASS
157
AREA
195
HEIGHT
152
26-Jun-2024
12:29
RUCHA
PATEL



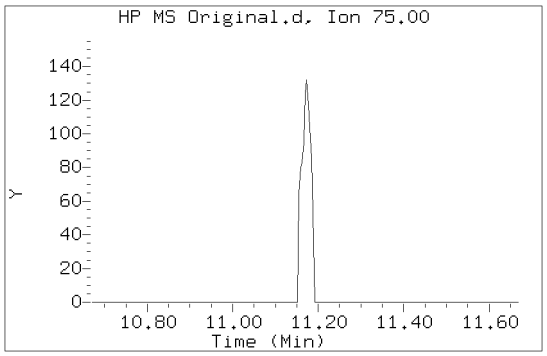
AFTER

MASS
157
AREA
195
HEIGHT
152
26-Jun-2024
12:29
RUCHA
PATEL



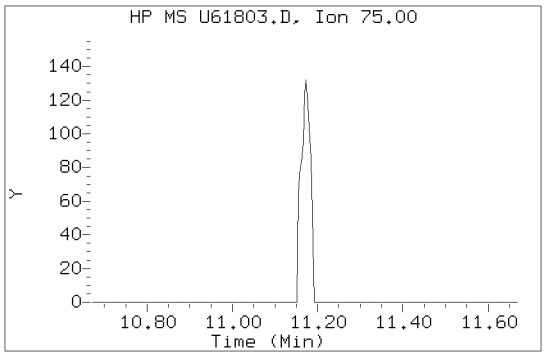
BEFORE

MASS
75
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
75
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL

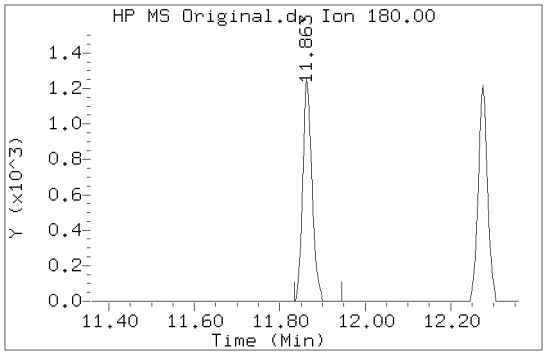


1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

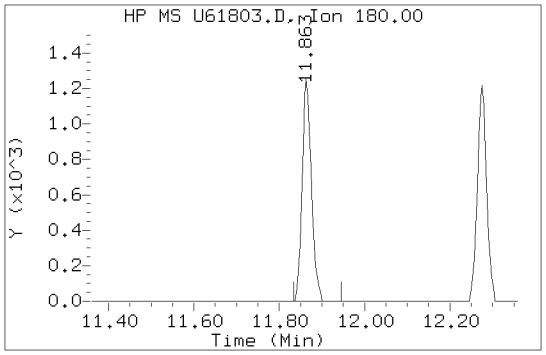
BEFORE

MASS
180
AREA
1930
HEIGHT
1254
26-Jun-2024
12:29
RUCHA
PATEL



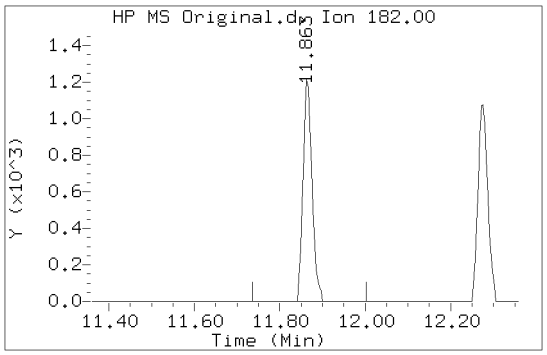
AFTER

MASS
180
AREA
1930
HEIGHT
1254
26-Jun-2024
12:29
RUCHA
PATEL



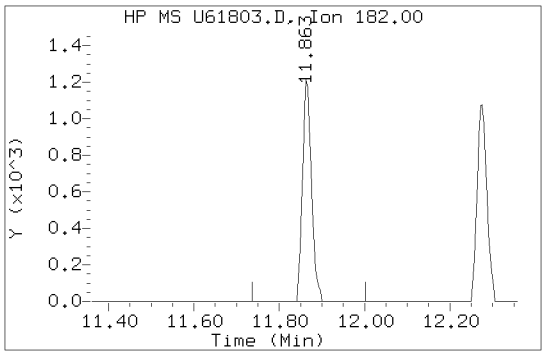
BEFORE

MASS
182
AREA
1825
HEIGHT
1214
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
182
AREA
1825
HEIGHT
1214
26-Jun-2024
12:29
RUCHA
PATEL



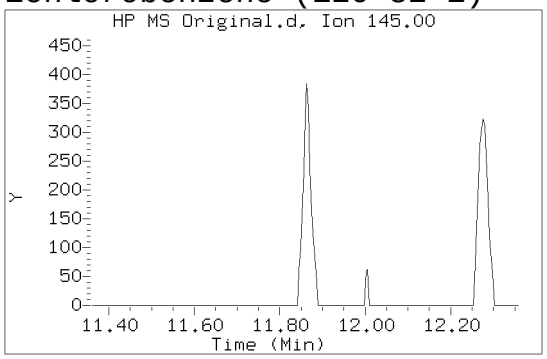
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61803.D
Inj Date : 18-JUN-2024 11:55
InstruID : VOA9.i
LabSampID : VSTD00.5

1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

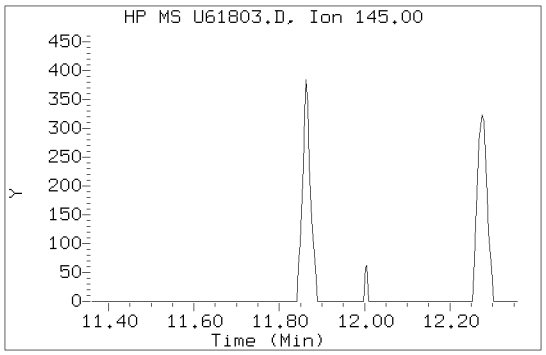
BEFORE

MASS
145
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
145
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL

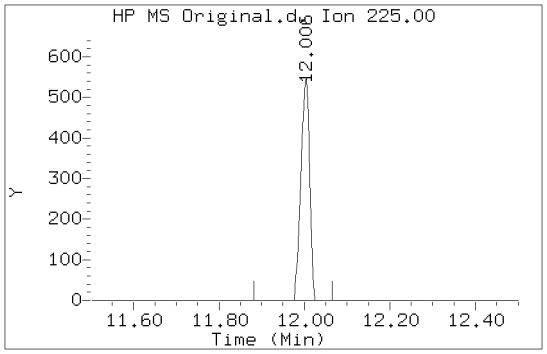


Hexachlorobutadiene (87-68-3)

Reason Code:

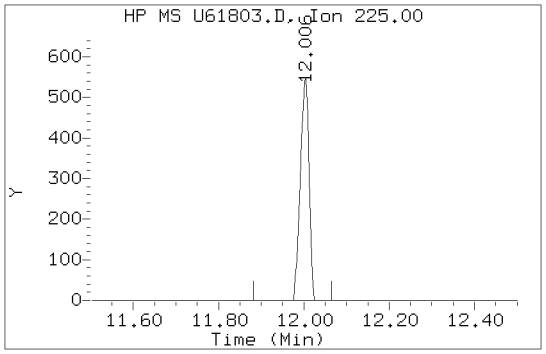
BEFORE

MASS
225
AREA
800
HEIGHT
546
26-Jun-2024
12:29
RUCHA
PATEL



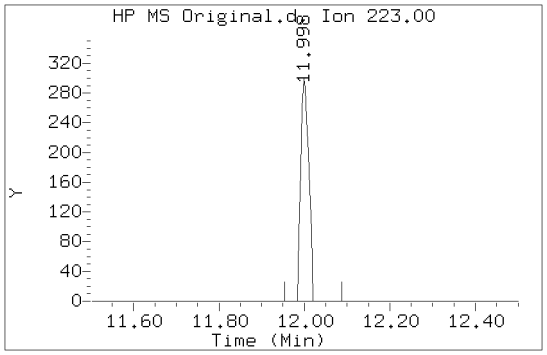
AFTER

MASS
225
AREA
800
HEIGHT
546
26-Jun-2024
12:29
RUCHA
PATEL



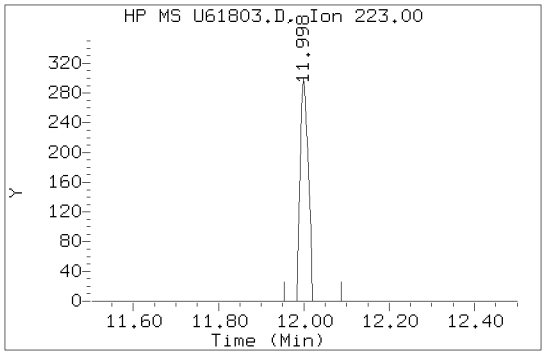
BEFORE

MASS
223
AREA
405
HEIGHT
299
26-Jun-2024
12:29
RUCHA
PATEL



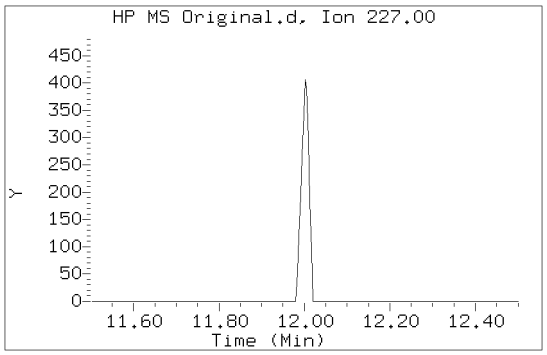
AFTER

MASS
223
AREA
405
HEIGHT
299
26-Jun-2024
12:29
RUCHA
PATEL



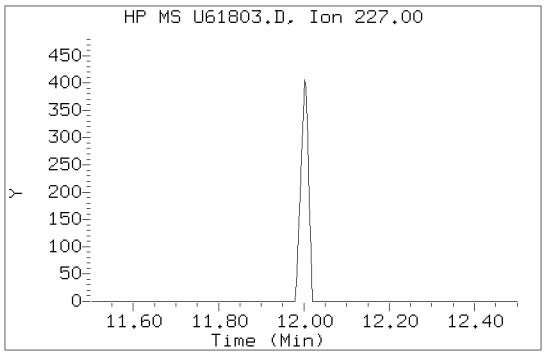
BEFORE

MASS
227
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
227
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



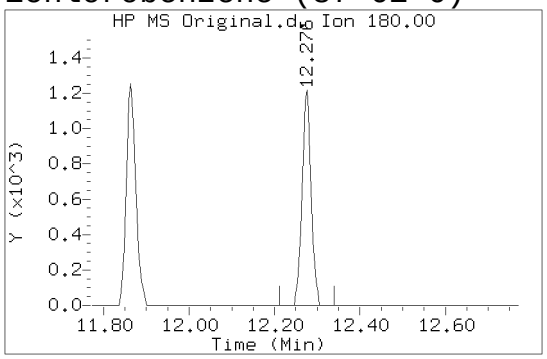
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61803.D
Inj Date : 18-JUN-2024 11:55
InstruID : VOA9.i
LabSampID : VSTD00.5

1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

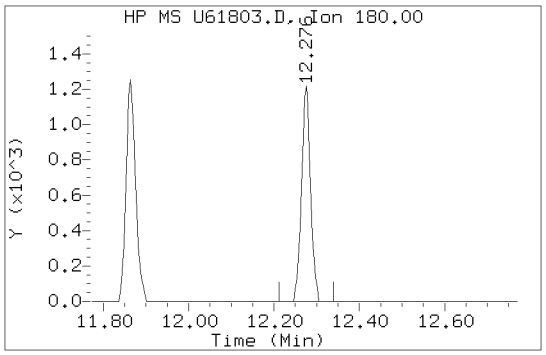
BEFORE

MASS
180
AREA
1825
HEIGHT
1219
26-Jun-2024
12:29
RUCHA
PATEL



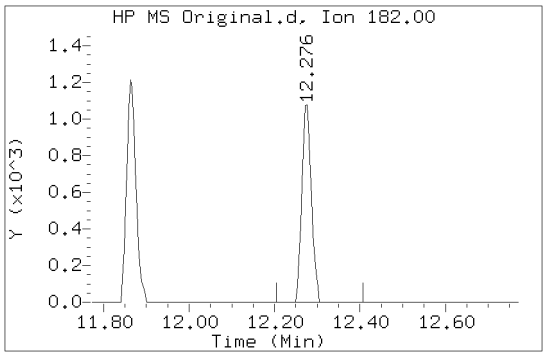
AFTER

MASS
180
AREA
1825
HEIGHT
1219
26-Jun-2024
12:29
RUCHA
PATEL



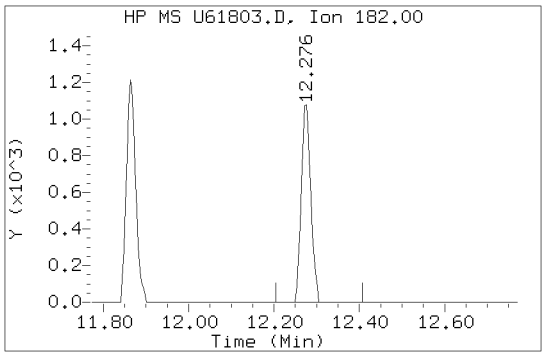
BEFORE

MASS
182
AREA
1714
HEIGHT
1077
26-Jun-2024
12:29
RUCHA
PATEL



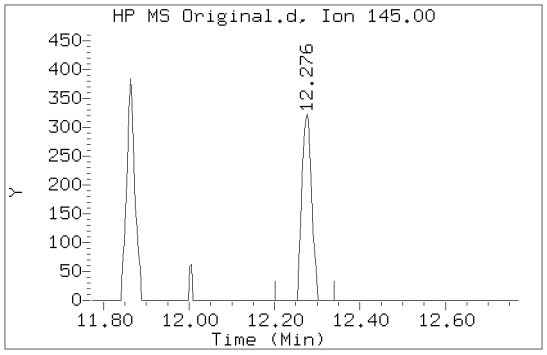
AFTER

MASS
182
AREA
1714
HEIGHT
1077
26-Jun-2024
12:29
RUCHA
PATEL



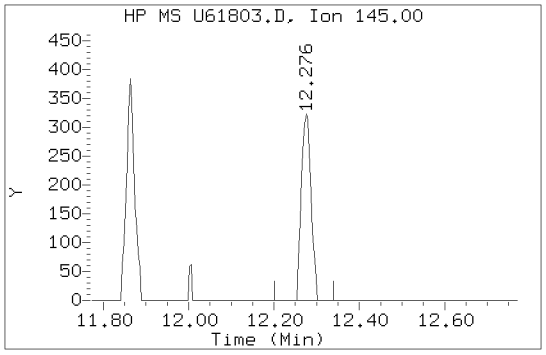
BEFORE

MASS
145
AREA
526
HEIGHT
323
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
145
AREA
526
HEIGHT
323
26-Jun-2024
12:29
RUCHA
PATEL

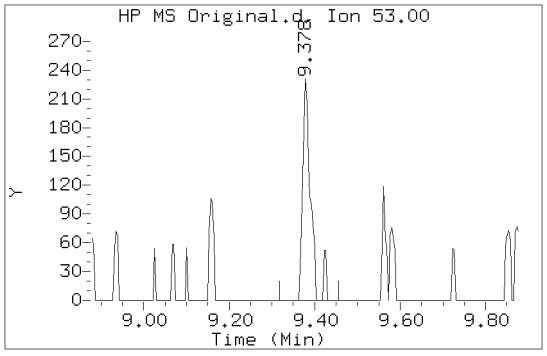


trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

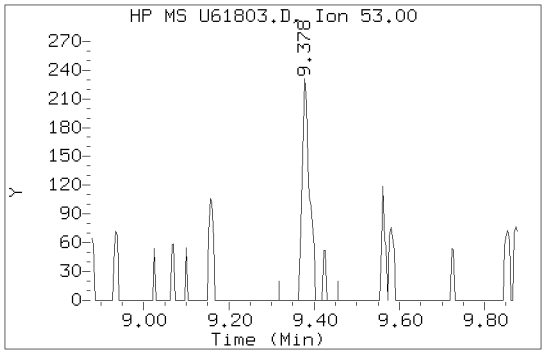
BEFORE

MASS
53
AREA
305
HEIGHT
231
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
53
AREA
305
HEIGHT
231
26-Jun-2024
12:29
RUCHA
PATEL



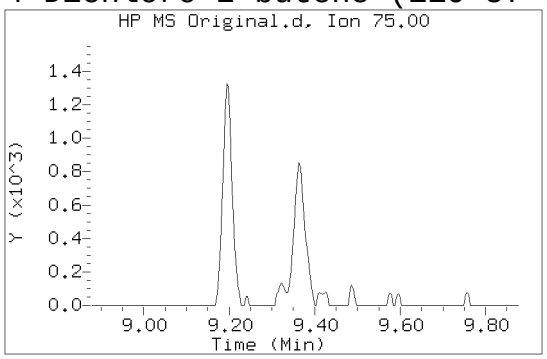
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61803.D
Inj Date : 18-JUN-2024 11:55
InstruID : VOA9.i
LabSampID : VSTD00.5

trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

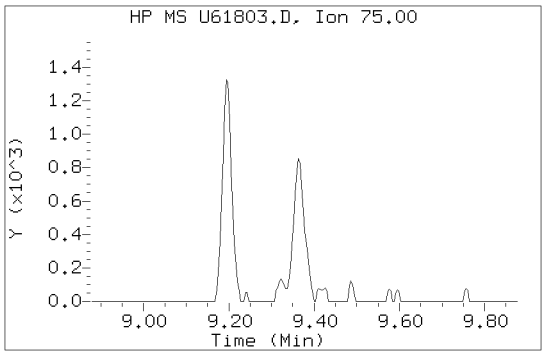
BEFORE

MASS
75
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
75
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL

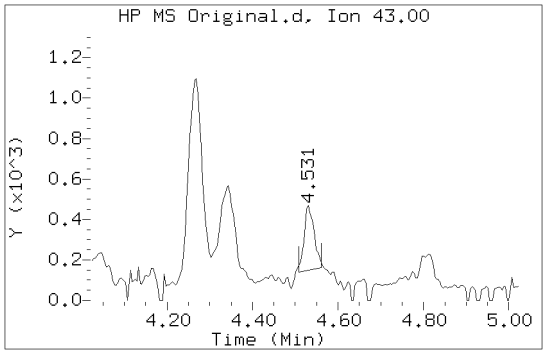


Ethyl Acetate (141-78-6)

Reason Code:

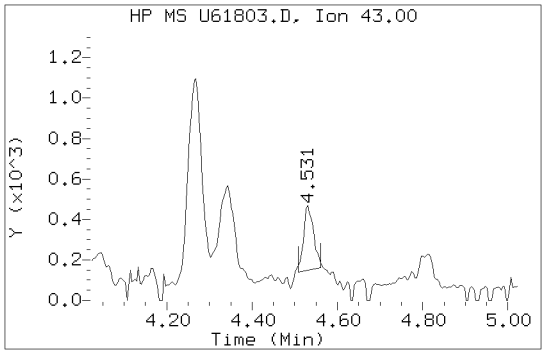
BEFORE

MASS
43
AREA
524
HEIGHT
318
26-Jun-2024
12:29
RUCHA
PATEL



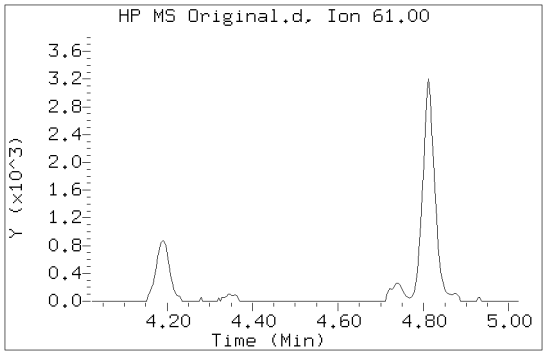
AFTER

MASS
43
AREA
524
HEIGHT
318
26-Jun-2024
12:29
RUCHA
PATEL



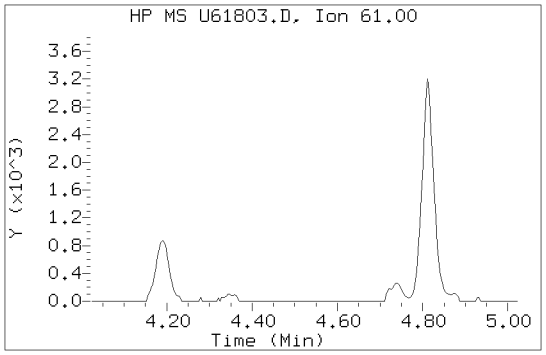
BEFORE

MASS
61
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



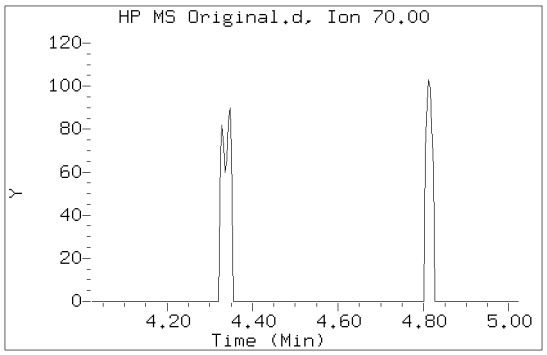
AFTER

MASS
61
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



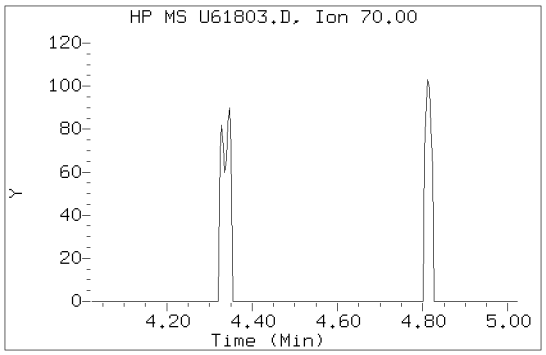
BEFORE

MASS
70
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
70
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL

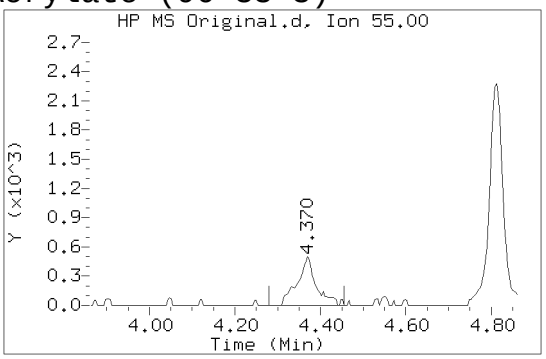


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61803.D
Inj Date : 18-JUN-2024 11:55
InstruID : VOA9.i
LabSampID : VSTD00.5

Methyl Acrylate (96-33-3)

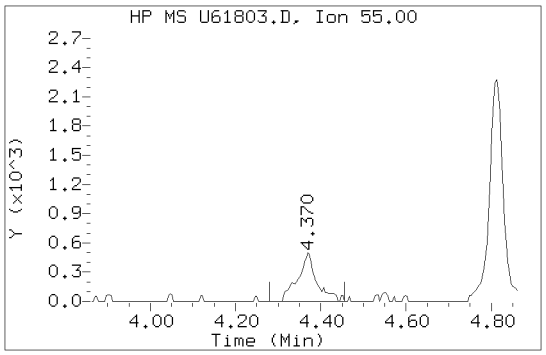
BEFORE

MASS
55
AREA
1566
HEIGHT
500
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

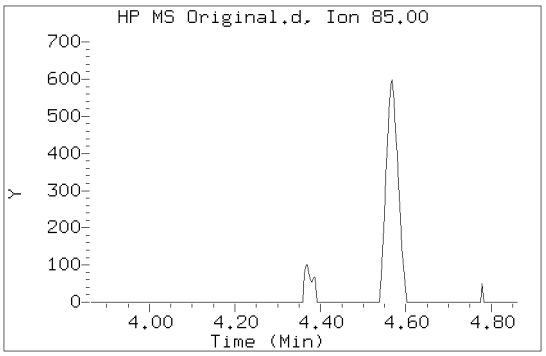
MASS
55
AREA
1566
HEIGHT
500
26-Jun-2024
12:29
RUCHA
PATEL



Reason Code:

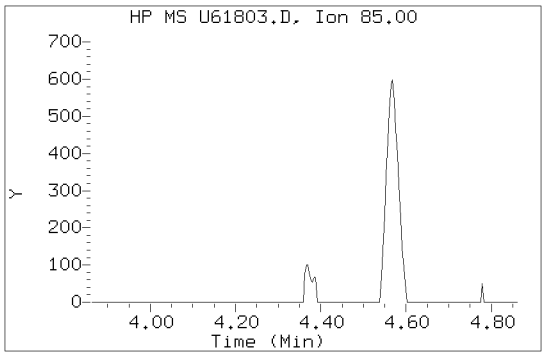
BEFORE

MASS
85
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
85
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL

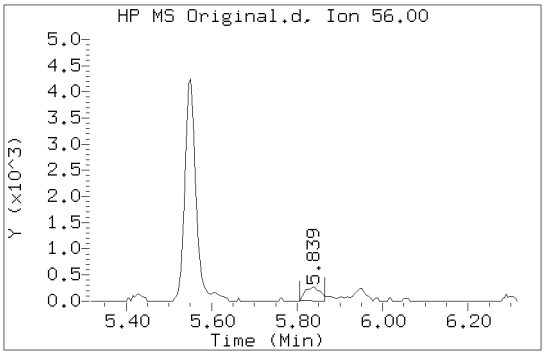


n-Butanol (71-36-3)

Reason Code:

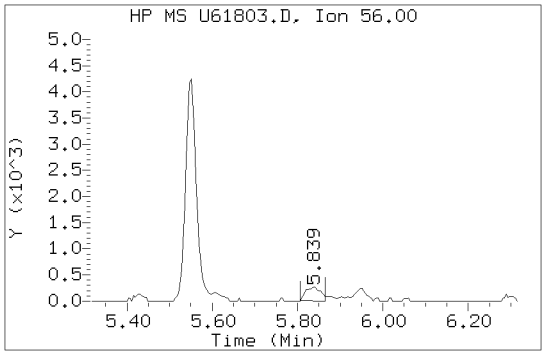
BEFORE

MASS
56
AREA
655
HEIGHT
264
26-Jun-2024
12:29
RUCHA
PATEL



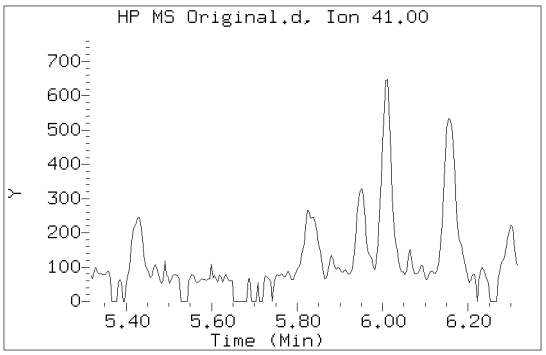
AFTER

MASS
56
AREA
655
HEIGHT
264
26-Jun-2024
12:29
RUCHA
PATEL



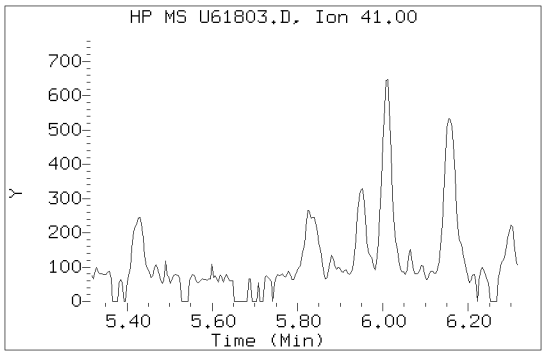
BEFORE

MASS
41
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
41
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



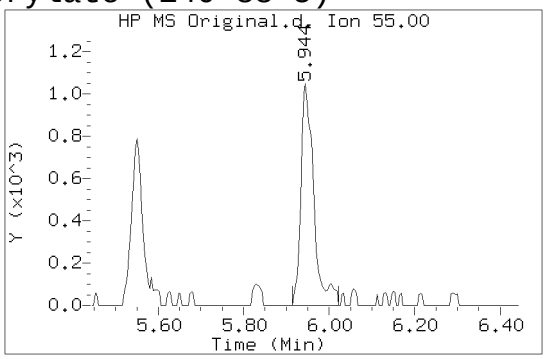
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61803.D
Inj Date : 18-JUN-2024 11:55
InstruID : VOA9.i
LabSampID : VSTD00.5

Ethyl Acrylate (140-88-5)

Reason Code:

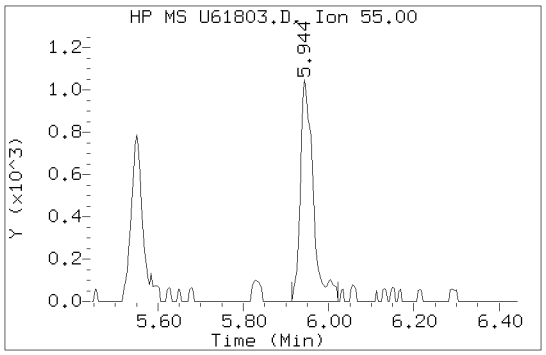
BEFORE

MASS
55
AREA
2222
HEIGHT
1048
26-Jun-2024
12:29
RUCHA
PATEL



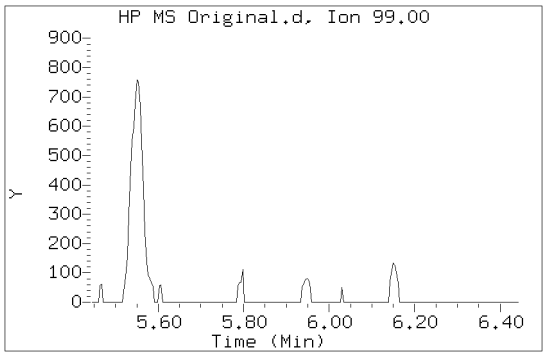
AFTER

MASS
55
AREA
2222
HEIGHT
1048
26-Jun-2024
12:29
RUCHA
PATEL



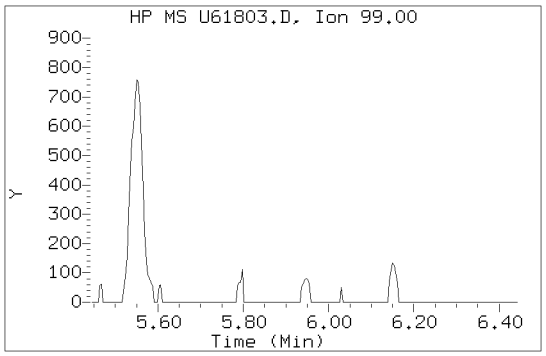
BEFORE

MASS
99
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
99
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL

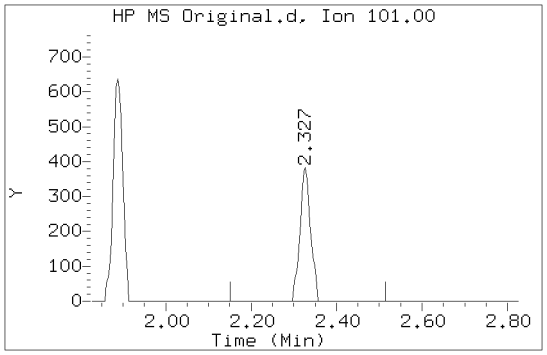


Freon TF (76-13-1)

Reason Code:

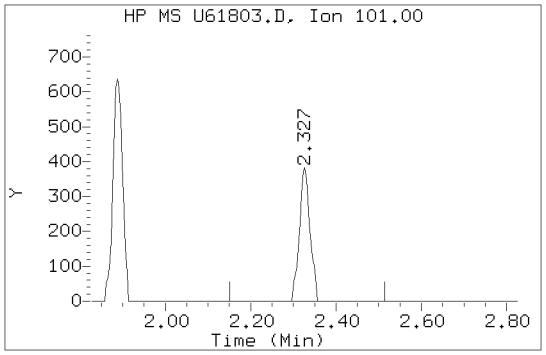
BEFORE

MASS
101
AREA
672
HEIGHT
384
26-Jun-2024
12:29
RUCHA
PATEL



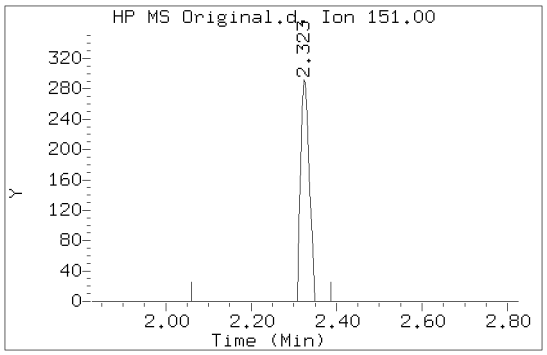
AFTER

MASS
101
AREA
672
HEIGHT
384
26-Jun-2024
12:29
RUCHA
PATEL



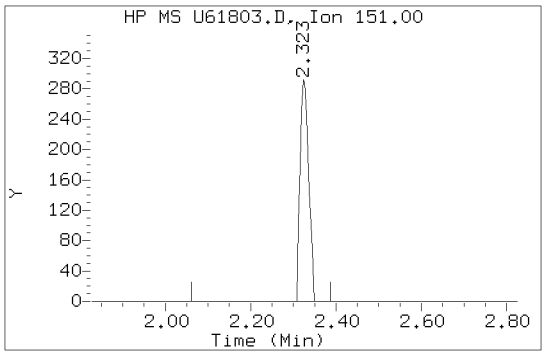
BEFORE

MASS
151
AREA
419
HEIGHT
292
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
151
AREA
419
HEIGHT
292
26-Jun-2024
12:29
RUCHA
PATEL

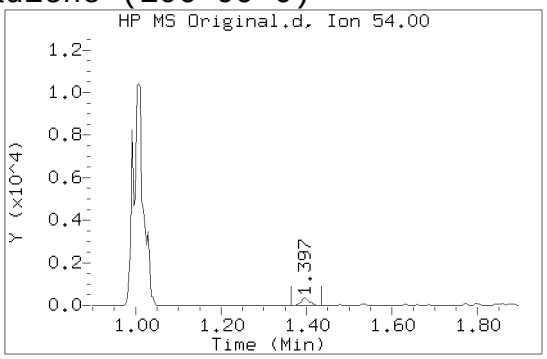


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61803.D
Inj Date : 18-JUN-2024 11:55
InstruID : VOA9.i
LabSampID : VSTD00.5

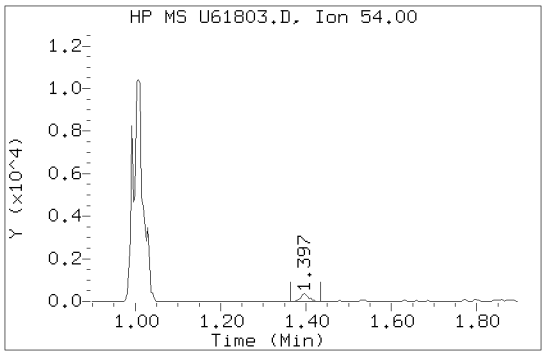
1,3-Butadiene (106-99-0)

Reason Code:

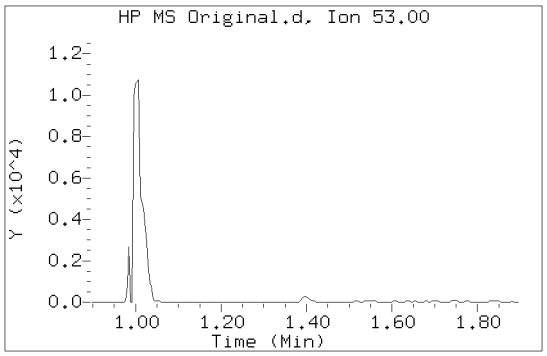
BEFORE
MASS
54
AREA
466
HEIGHT
361
26-Jun-2024
12:29
RUCHA
PATEL



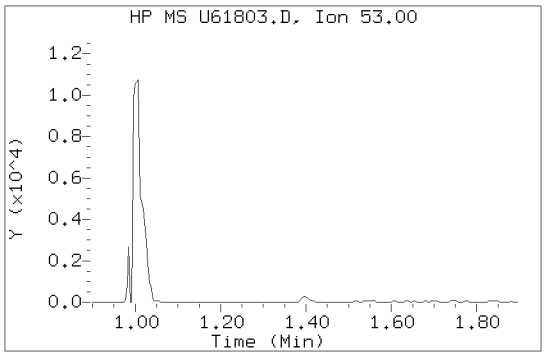
AFTER
MASS
54
AREA
466
HEIGHT
361
26-Jun-2024
12:29
RUCHA
PATEL



BEFORE
MASS
53
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



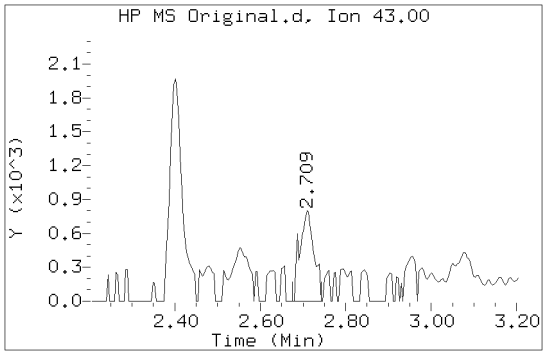
AFTER
MASS
53
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



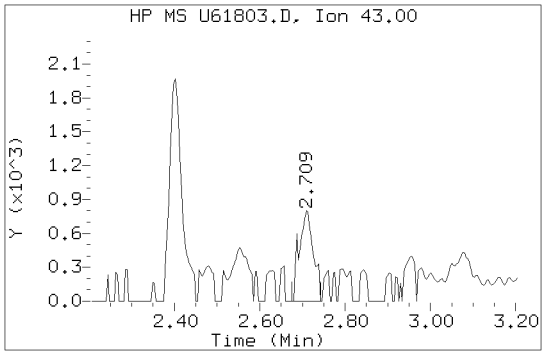
Methyl acetate (79-20-9)

Reason Code:

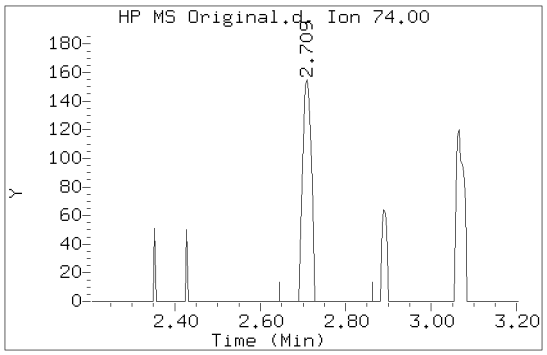
BEFORE
MASS
43
AREA
1862
HEIGHT
805
26-Jun-2024
12:29
RUCHA
PATEL



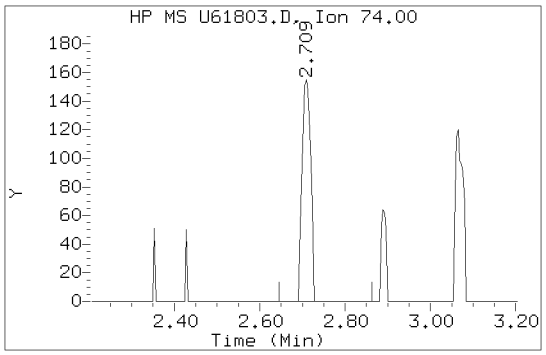
AFTER
MASS
43
AREA
1862
HEIGHT
805
26-Jun-2024
12:29
RUCHA
PATEL



BEFORE
MASS
74
AREA
225
HEIGHT
155
26-Jun-2024
12:29
RUCHA
PATEL



AFTER
MASS
74
AREA
225
HEIGHT
155
26-Jun-2024
12:29
RUCHA
PATEL



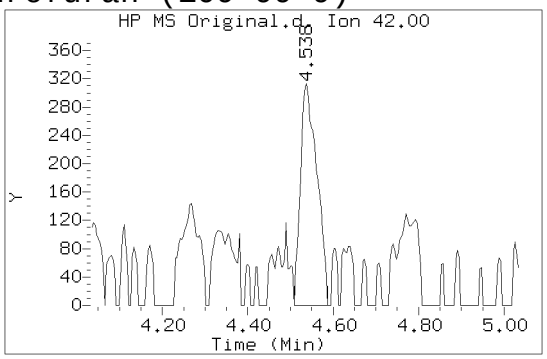
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61803.D
Inj Date : 18-JUN-2024 11:55
InstruID : VOA9.i
LabSampID : VSTD00.5

Tetrahydrofuran (109-99-9)

Reason Code:

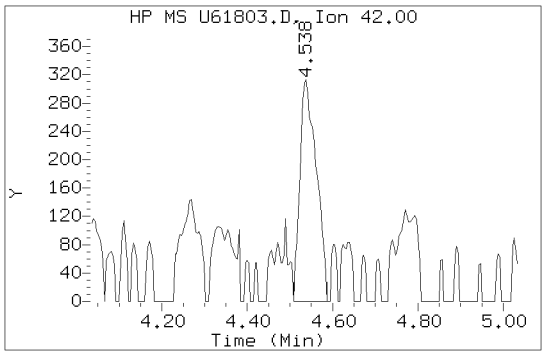
BEFORE

MASS
42
AREA
848
HEIGHT
313
26-Jun-2024
12:29
RUCHA
PATEL



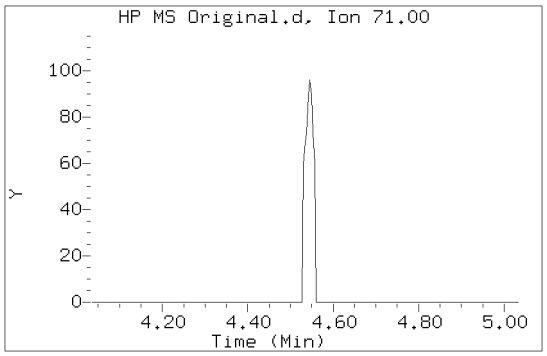
AFTER

MASS
42
AREA
848
HEIGHT
313
26-Jun-2024
12:29
RUCHA
PATEL



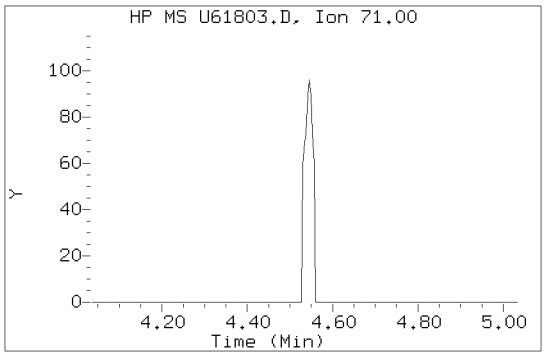
BEFORE

MASS
71
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
71
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL

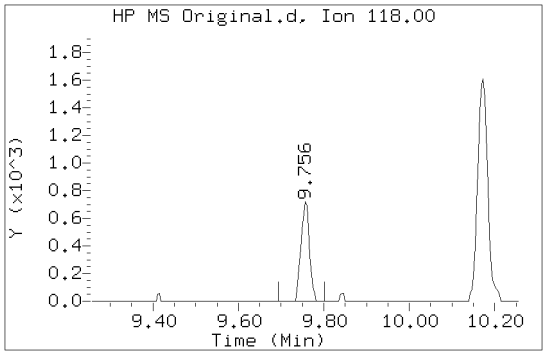


alpha-Methylstyrene (98-83-9)

Reason Code:

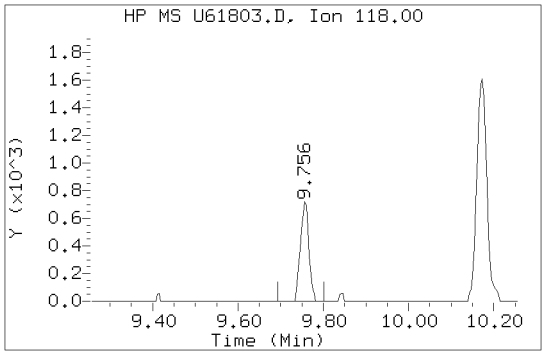
BEFORE

MASS
118
AREA
1014
HEIGHT
720
26-Jun-2024
12:29
RUCHA
PATEL



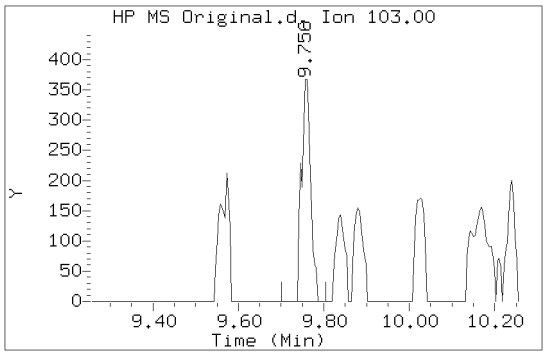
AFTER

MASS
118
AREA
1014
HEIGHT
720
26-Jun-2024
12:29
RUCHA
PATEL



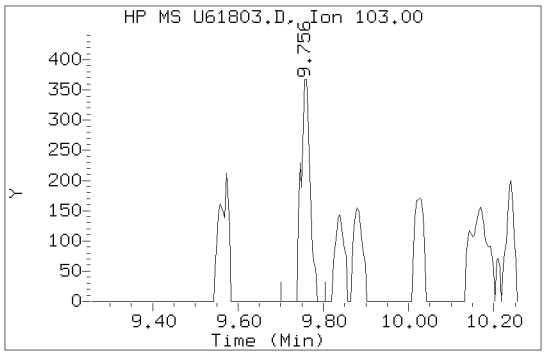
BEFORE

MASS
103
AREA
561
HEIGHT
367
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
103
AREA
561
HEIGHT
367
26-Jun-2024
12:29
RUCHA
PATEL



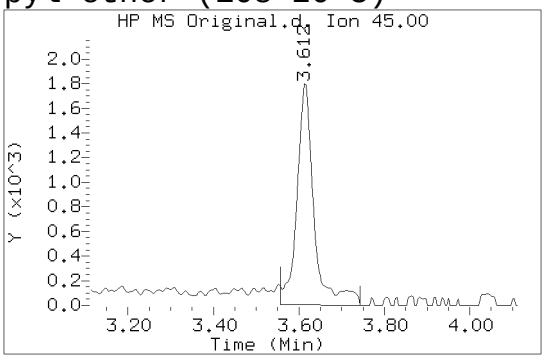
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61803.D
Inj Date : 18-JUN-2024 11:55
InstruID : VOA9.i
LabSampID : VSTD00.5

Diisopropyl ether (108-20-3)

Reason Code:

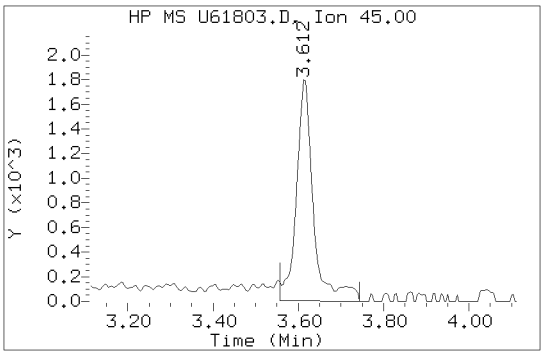
BEFORE

MASS
45
AREA
5074
HEIGHT
1795
26-Jun-2024
12:29
RUCHA
PATEL



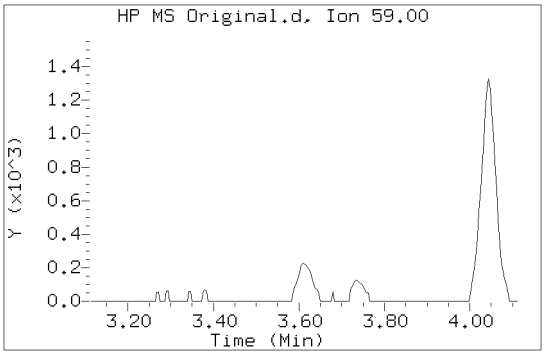
AFTER

MASS
45
AREA
5074
HEIGHT
1795
26-Jun-2024
12:29
RUCHA
PATEL



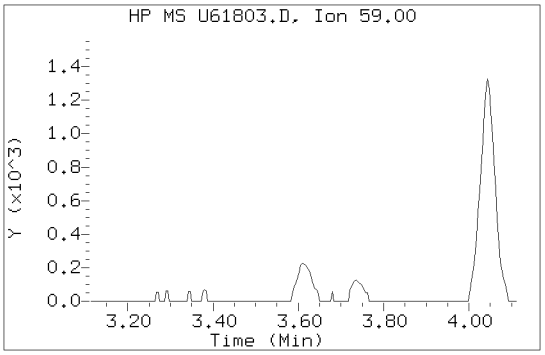
BEFORE

MASS
59
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



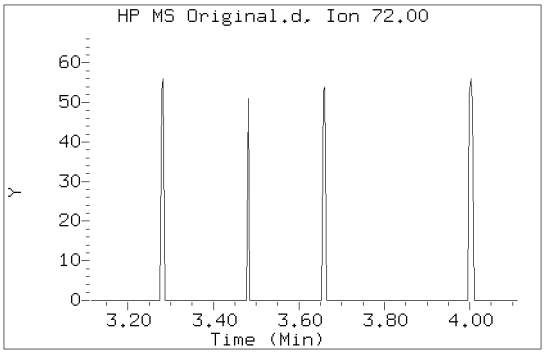
AFTER

MASS
59
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



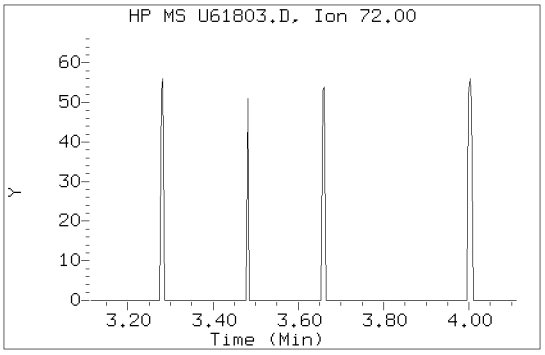
BEFORE

MASS
72
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
72
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL

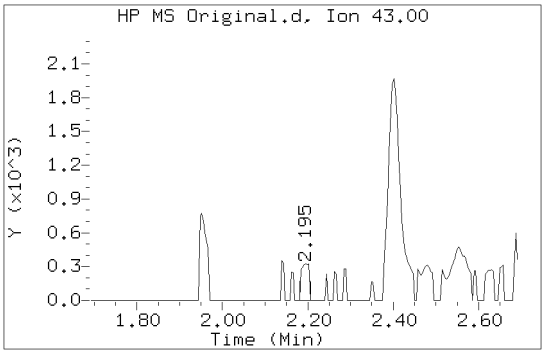


Propylene oxide ()

Reason Code:

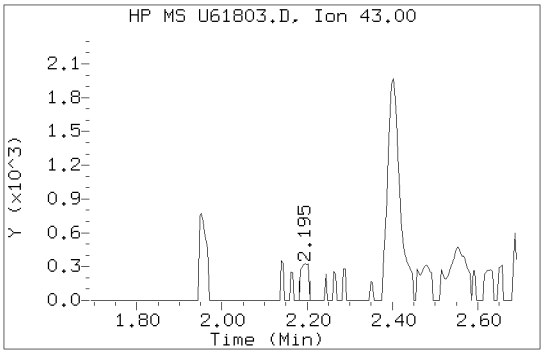
BEFORE

MASS
43
AREA
416
HEIGHT
324
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
43
AREA
416
HEIGHT
324
26-Jun-2024
12:29
RUCHA
PATEL



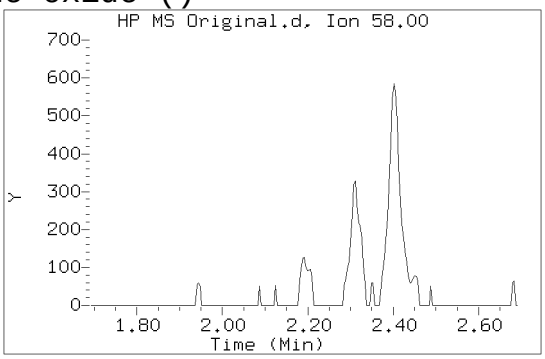
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61803.D
Inj Date : 18-JUN-2024 11:55
InstruID : VOA9.i
LabSampID : VSTD00.5

Propylene oxide ()

Reason Code:

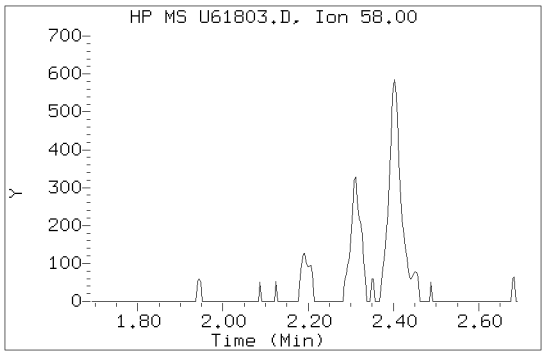
BEFORE

MASS
58
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
58
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL

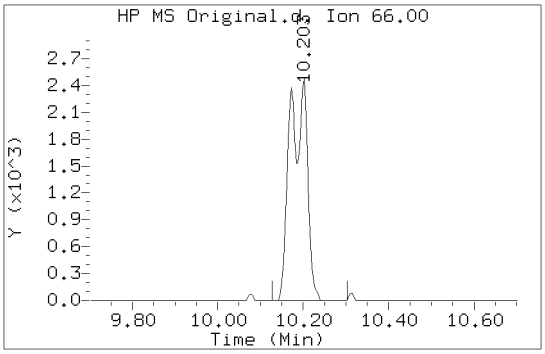


Dicyclopentadiene (77-73-6)

Reason Code:

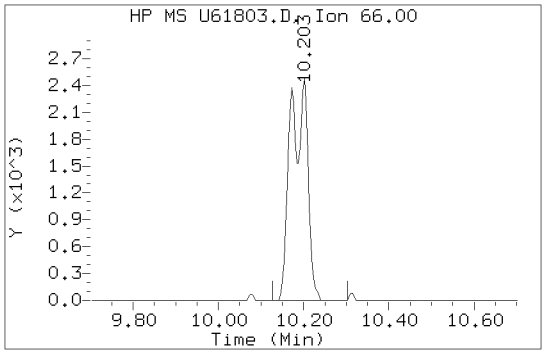
BEFORE

MASS
66
AREA
7028
HEIGHT
2477
26-Jun-2024
12:29
RUCHA
PATEL



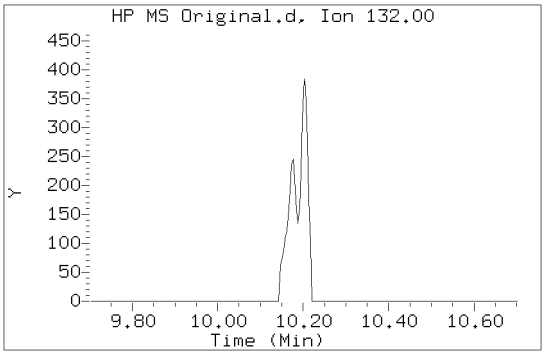
AFTER

MASS
66
AREA
7028
HEIGHT
2477
26-Jun-2024
12:29
RUCHA
PATEL



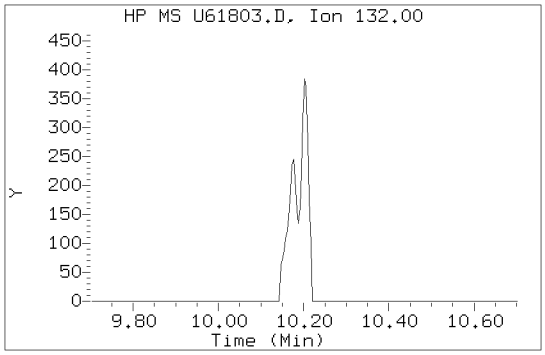
BEFORE

MASS
132
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
132
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL

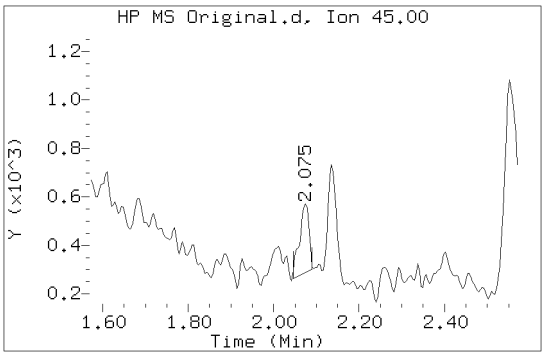


Ethanol (64-17-5)

Reason Code:

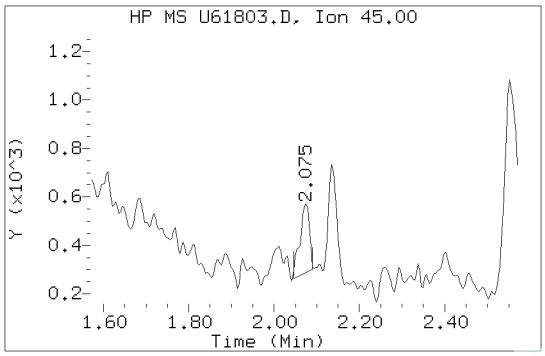
BEFORE

MASS
45
AREA
450
HEIGHT
282
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
45
AREA
450
HEIGHT
282
26-Jun-2024
12:29
RUCHA
PATEL



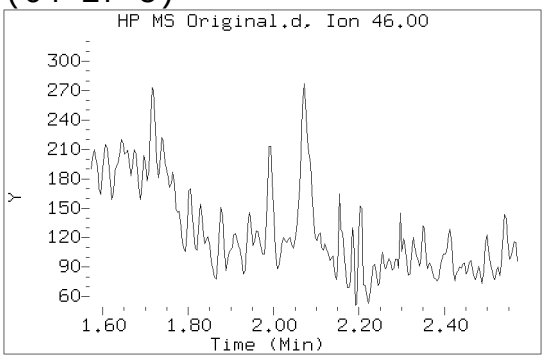
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61803.D
Inj Date : 18-JUN-2024 11:55
InstruID : VOA9.i
LabSampID : VSTD00.5

Ethanol (64-17-5)

Reason Code:

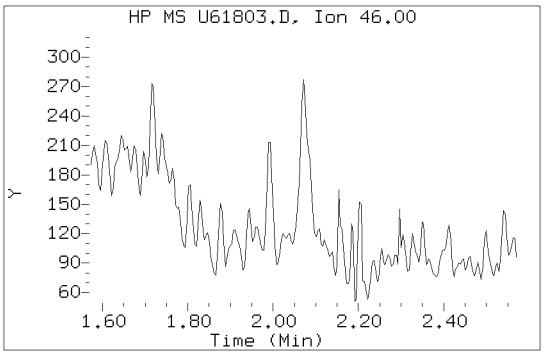
BEFORE

MASS
46
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



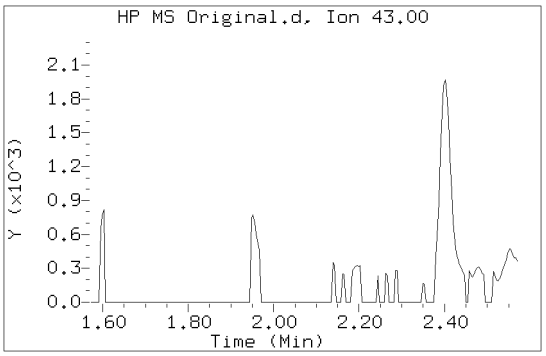
AFTER

MASS
46
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



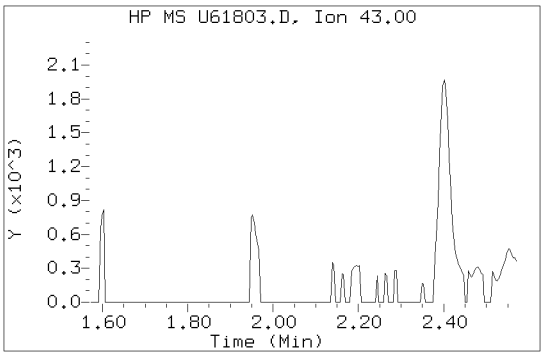
BEFORE

MASS
43
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
43
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL

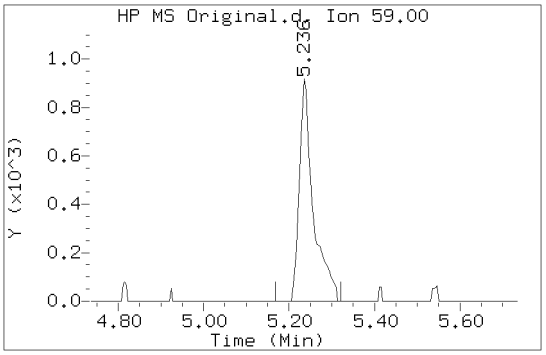


tert-Butyl formate (762-75-4)

Reason Code:

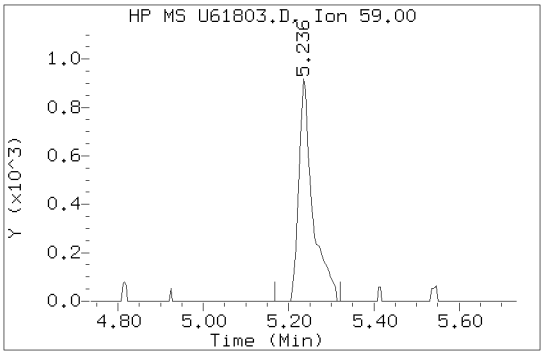
BEFORE

MASS
59
AREA
2110
HEIGHT
918
26-Jun-2024
12:29
RUCHA
PATEL



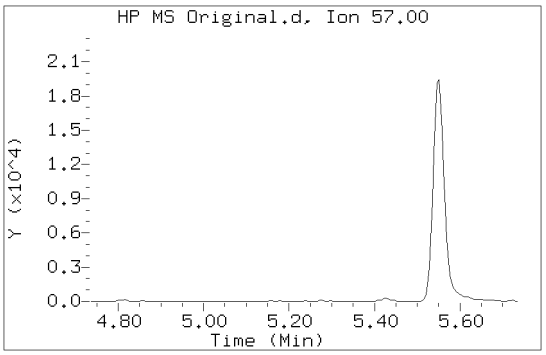
AFTER

MASS
59
AREA
2110
HEIGHT
918
26-Jun-2024
12:29
RUCHA
PATEL



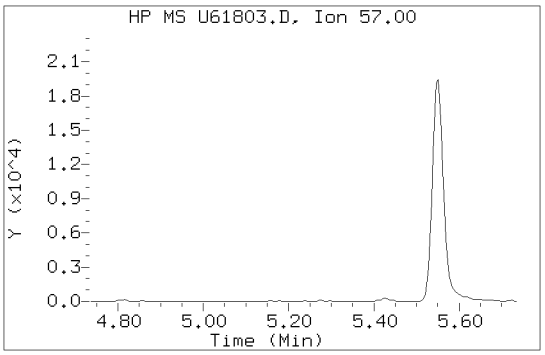
BEFORE

MASS
57
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
57
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



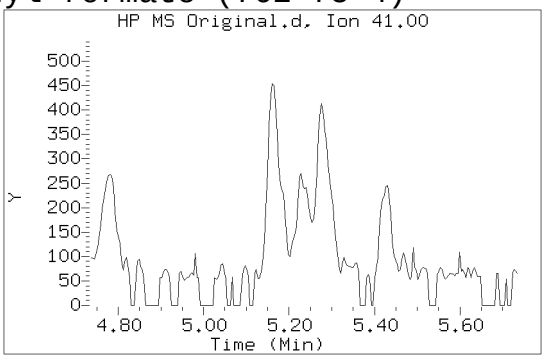
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61803.D
Inj Date : 18-JUN-2024 11:55
InstruID : VOA9.i
LabSampID : VSTD00.5

tert-Butyl formate (762-75-4)

Reason Code:

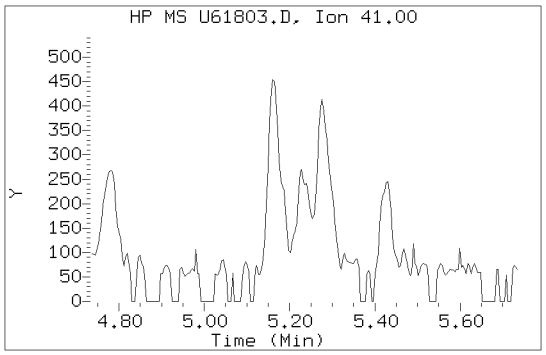
BEFORE

MASS
41
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
41
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL

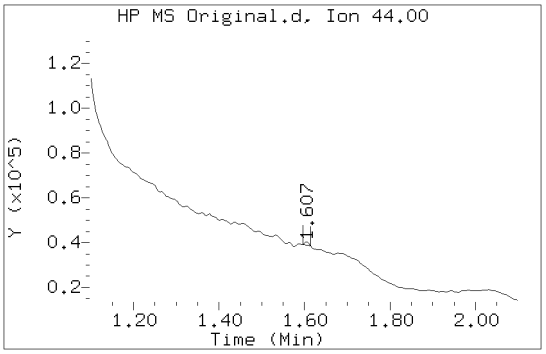


Ethylene oxide (75-21-8)

Reason Code:

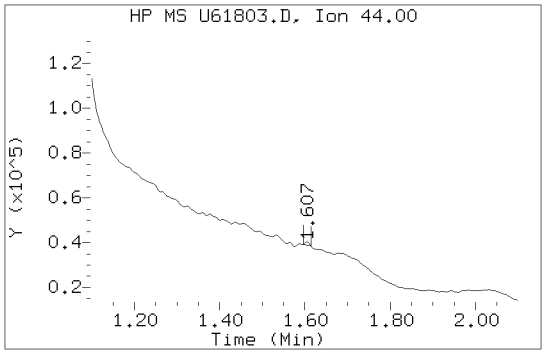
BEFORE

MASS
44
AREA
1076
HEIGHT
1643
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
44
AREA
1076
HEIGHT
1643
26-Jun-2024
12:29
RUCHA
PATEL

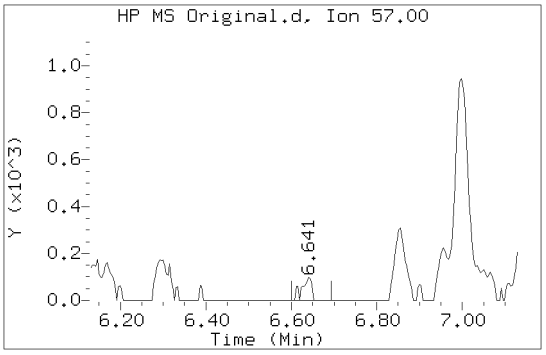


Epichlorohydrin (106-89-8)

Reason Code:

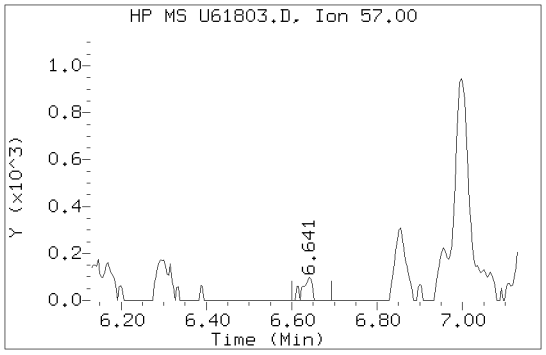
BEFORE

MASS
57
AREA
156
HEIGHT
98
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
57
AREA
156
HEIGHT
98
26-Jun-2024
12:29
RUCHA
PATEL



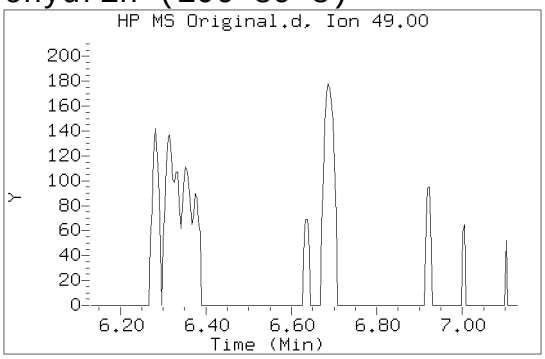
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61803.D
Inj Date : 18-JUN-2024 11:55
InstruID : VOA9.i
LabSampID : VSTD00.5

Epichlorohydrin (106-89-8)

Reason Code:

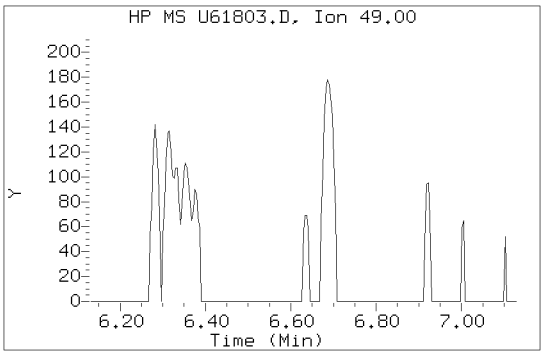
BEFORE

MASS
49
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
49
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL

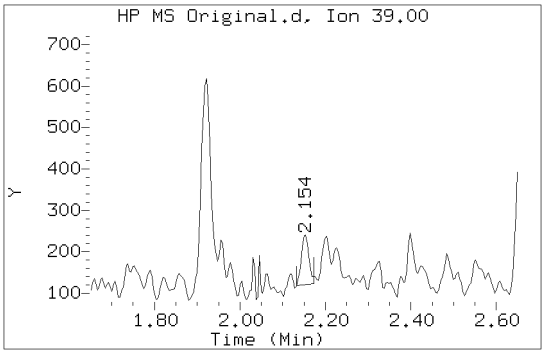


Isoprene (78-79-5)

Reason Code:

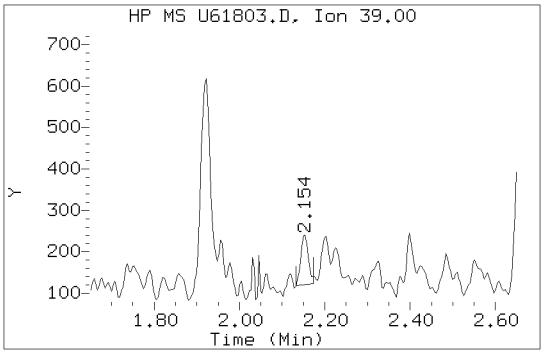
BEFORE

MASS
39
AREA
150
HEIGHT
120
26-Jun-2024
12:29
RUCHA
PATEL



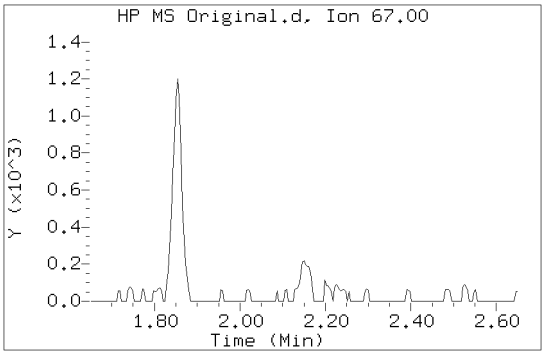
AFTER

MASS
39
AREA
150
HEIGHT
120
26-Jun-2024
12:29
RUCHA
PATEL



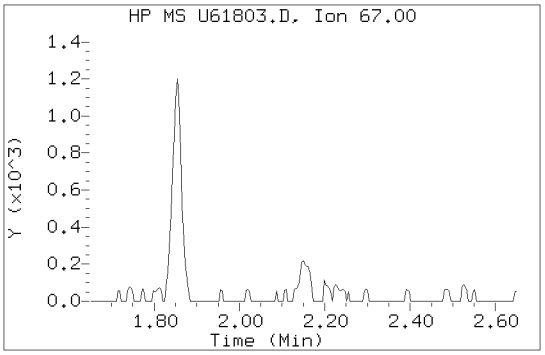
BEFORE

MASS
67
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



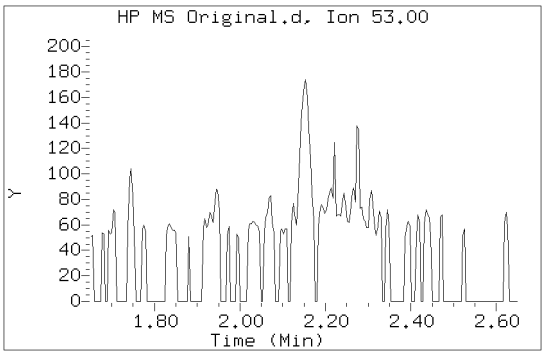
AFTER

MASS
67
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



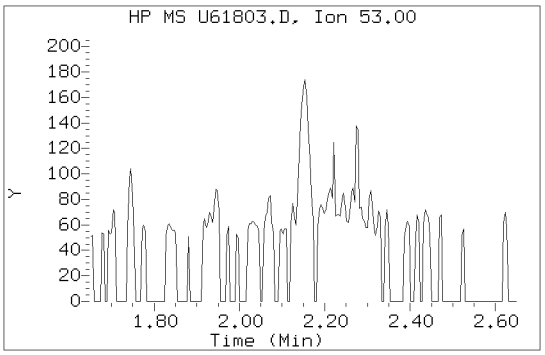
BEFORE

MASS
53
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
53
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



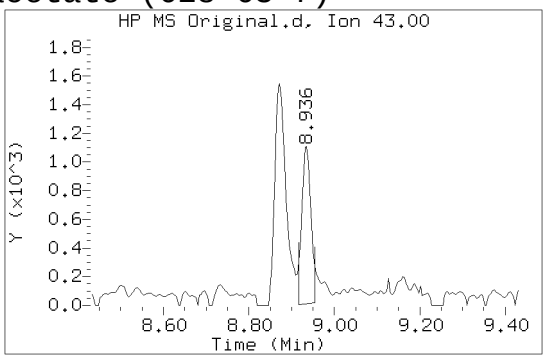
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61803.D
Inj Date : 18-JUN-2024 11:55
InstruID : VOA9.i
LabSampID : VSTD00.5

n-Amyl acetate (628-63-7)

Reason Code:

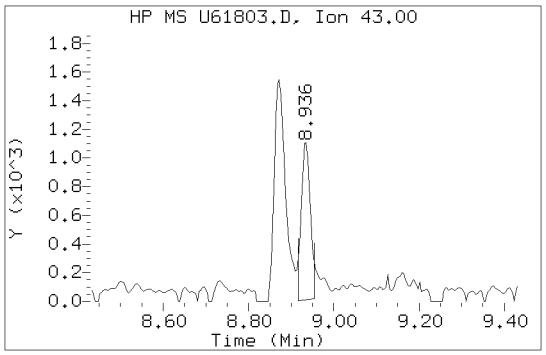
BEFORE

MASS
43
AREA
1693
HEIGHT
1096
26-Jun-2024
12:29
RUCHA
PATEL



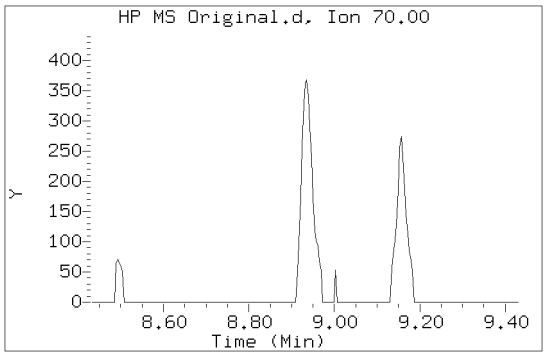
AFTER

MASS
43
AREA
1693
HEIGHT
1096
26-Jun-2024
12:29
RUCHA
PATEL



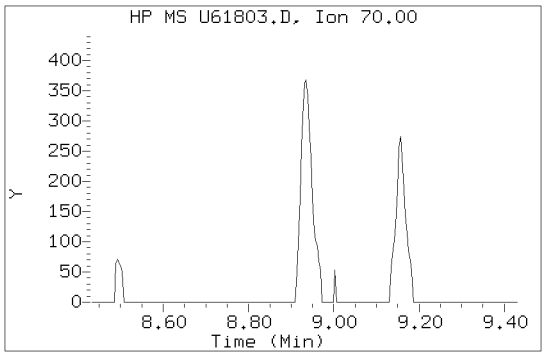
BEFORE

MASS
70
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



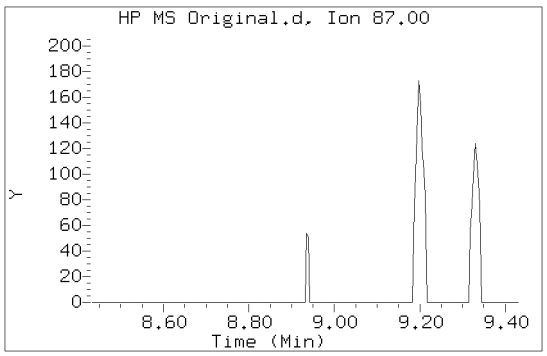
AFTER

MASS
70
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



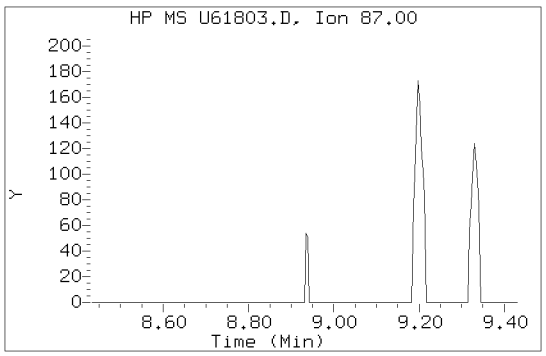
BEFORE

MASS
87
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
87
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL

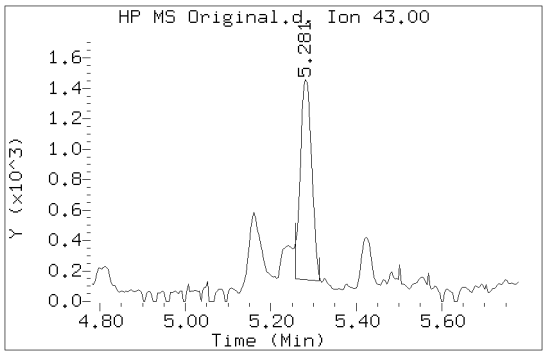


Isopropyl acetate (108-21-4)

Reason Code:

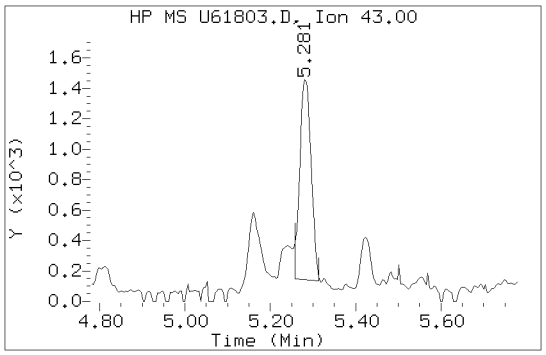
BEFORE

MASS
43
AREA
2497
HEIGHT
1313
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
43
AREA
2497
HEIGHT
1313
26-Jun-2024
12:29
RUCHA
PATEL



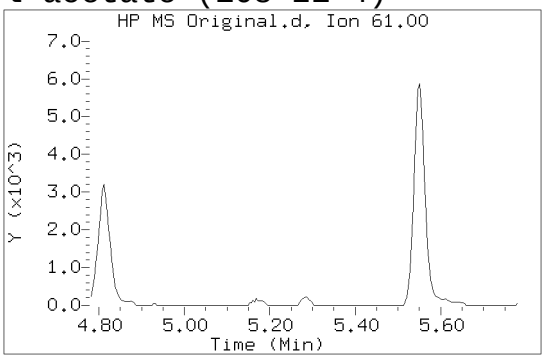
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61803.D
Inj Date : 18-JUN-2024 11:55
InstruID : VOA9.i
LabSampID : VSTD00.5

Isopropyl acetate (108-21-4)

Reason Code:

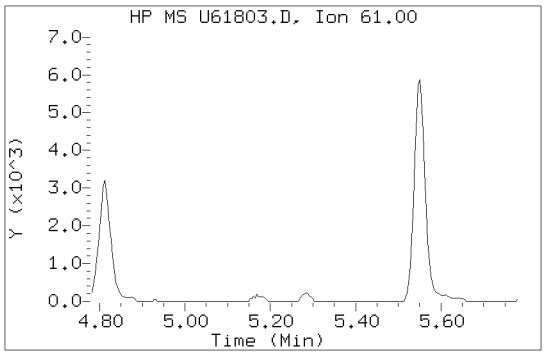
BEFORE

MASS
61
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
61
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL

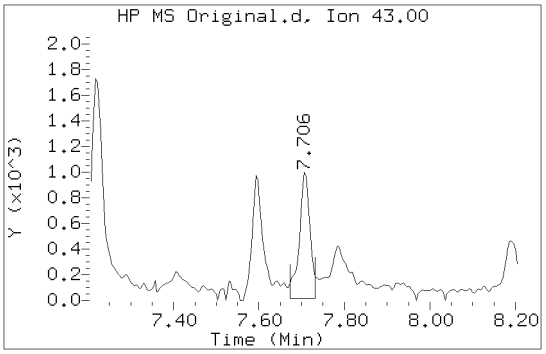


n-Butyl acetate (123-86-4)

Reason Code:

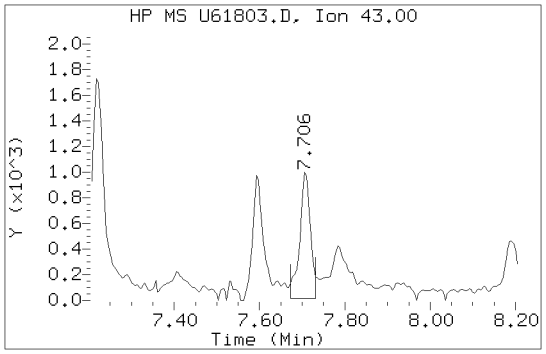
BEFORE

MASS
43
AREA
1773
HEIGHT
983
26-Jun-2024
12:29
RUCHA
PATEL



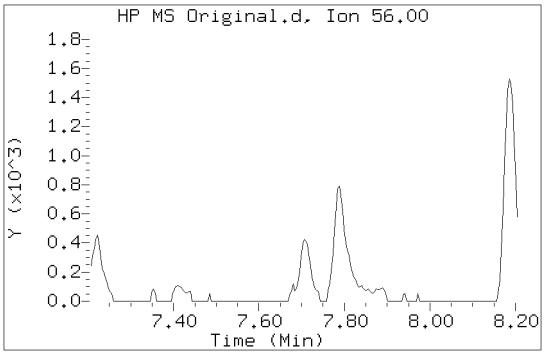
AFTER

MASS
43
AREA
1773
HEIGHT
983
26-Jun-2024
12:29
RUCHA
PATEL



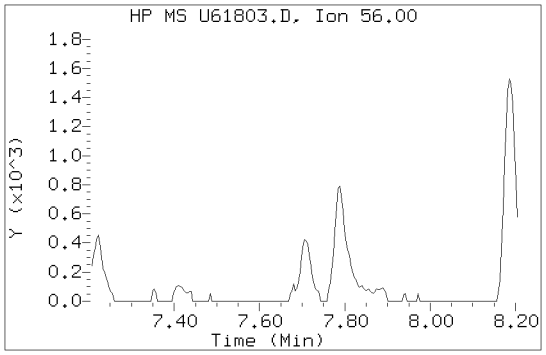
BEFORE

MASS
56
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



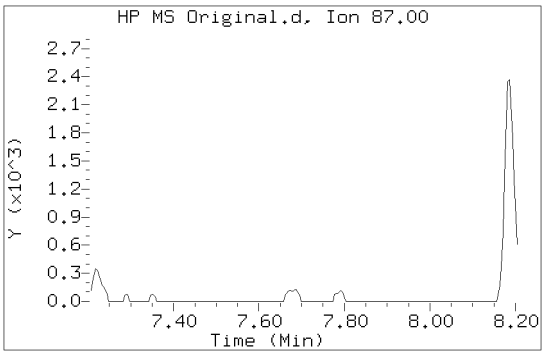
AFTER

MASS
56
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



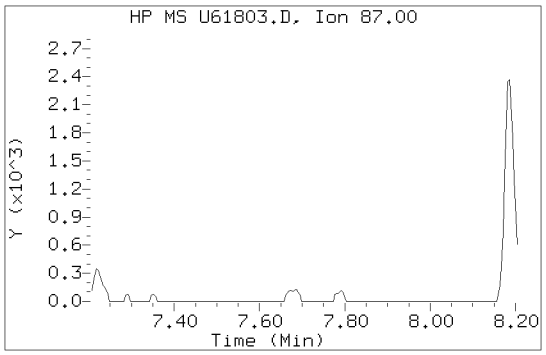
BEFORE

MASS
87
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
87
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



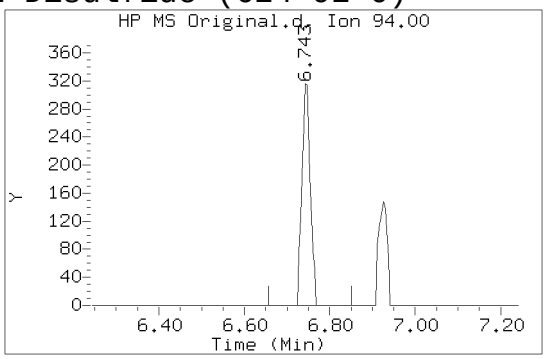
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61803.D
Inj Date : 18-JUN-2024 11:55
InstruID : VOA9.i
LabSampID : VSTD00.5

Dimethyl Disulfide (624-92-0)

Reason Code:

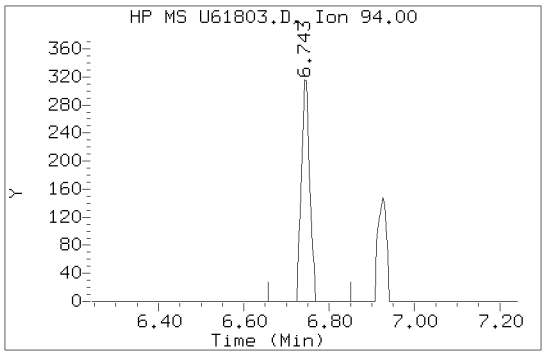
BEFORE

MASS
94
AREA
442
HEIGHT
316
26-Jun-2024
12:29
RUCHA
PATEL



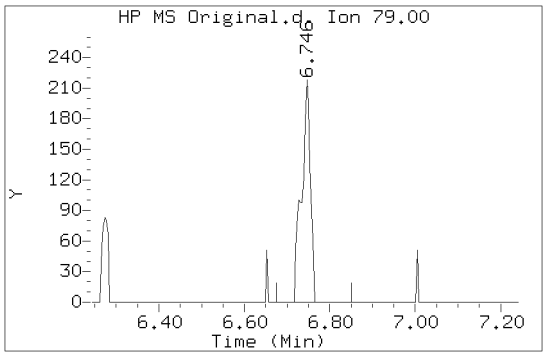
AFTER

MASS
94
AREA
442
HEIGHT
316
26-Jun-2024
12:29
RUCHA
PATEL



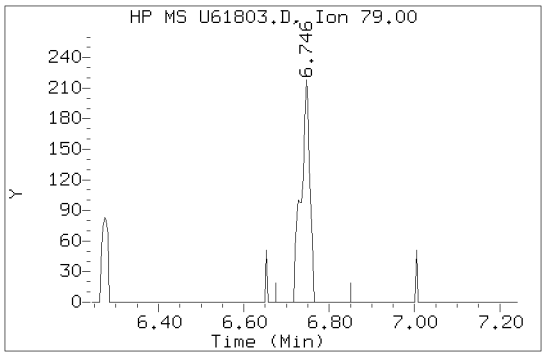
BEFORE

MASS
79
AREA
321
HEIGHT
218
26-Jun-2024
12:29
RUCHA
PATEL



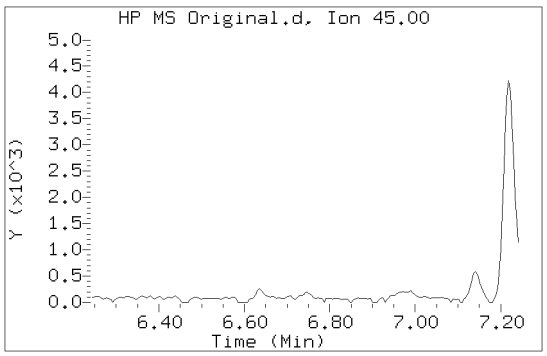
AFTER

MASS
79
AREA
321
HEIGHT
218
26-Jun-2024
12:29
RUCHA
PATEL



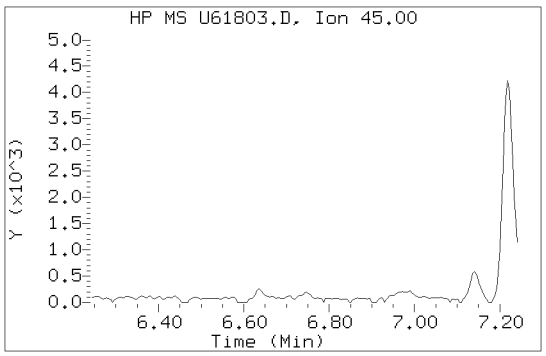
BEFORE

MASS
45
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
45
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL

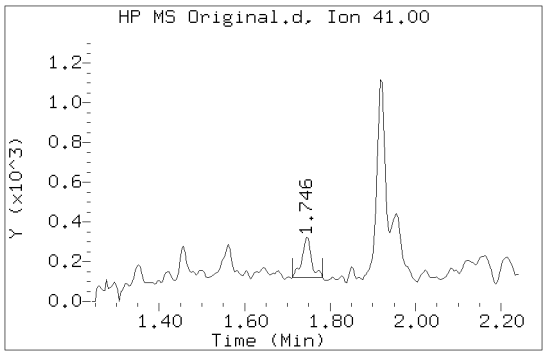


Isobutylene (115-11-7)

Reason Code:

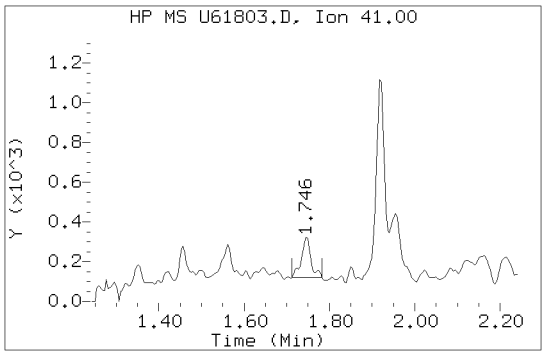
BEFORE

MASS
41
AREA
326
HEIGHT
202
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
41
AREA
326
HEIGHT
202
26-Jun-2024
12:29
RUCHA
PATEL



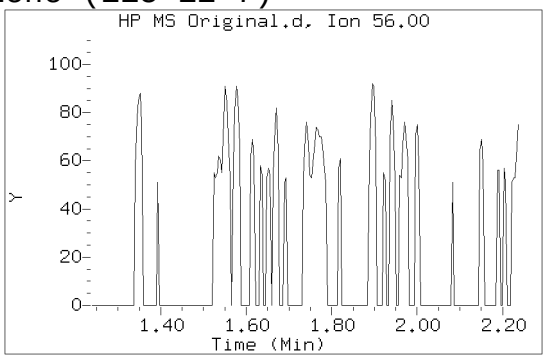
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61803.D
Inj Date : 18-JUN-2024 11:55
InstruID : VOA9.i
LabSampID : VSTD00.5

Isobutylene (115-11-7)

Reason Code:

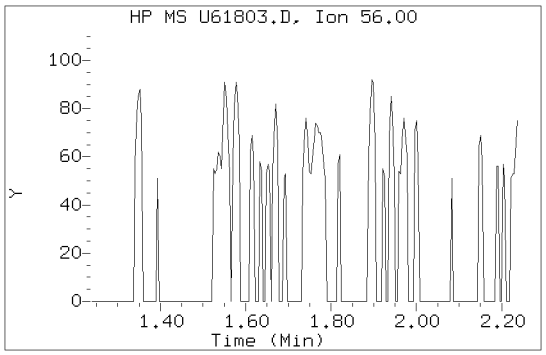
BEFORE

MASS
56
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



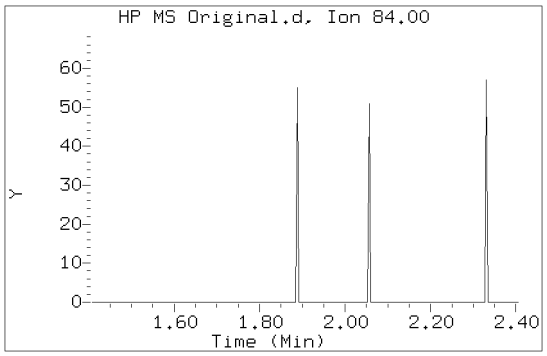
AFTER

MASS
56
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



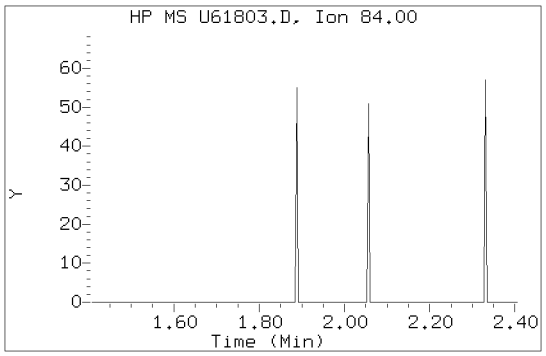
BEFORE

MASS
84
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
84
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL

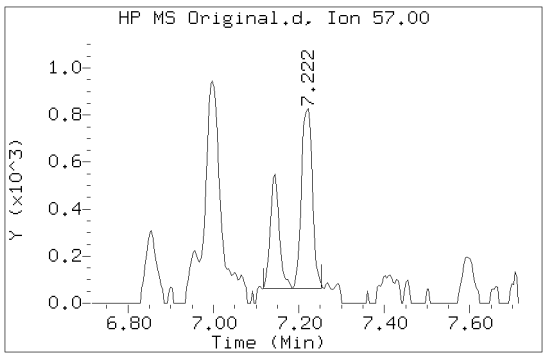


sec-Butyl Ether (6863-58-7)

Reason Code:

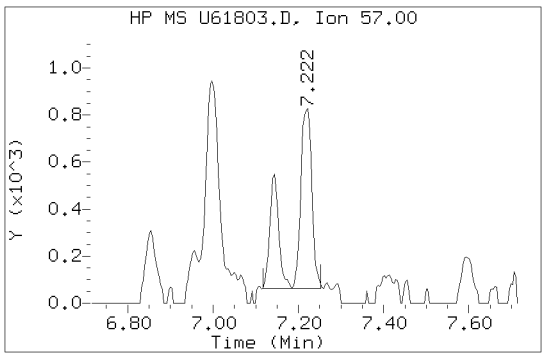
BEFORE

MASS
57
AREA
2099
HEIGHT
765
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
57
AREA
2099
HEIGHT
765
26-Jun-2024
12:29
RUCHA
PATEL

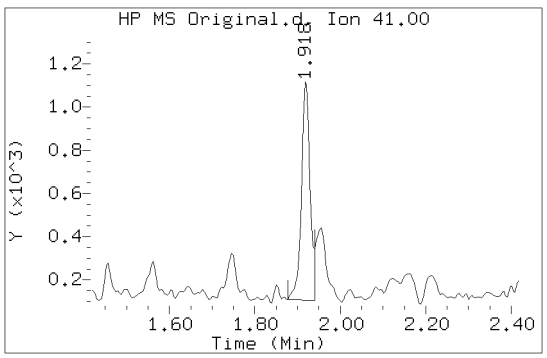


2-Chloropropene (557-98-2)

Reason Code:

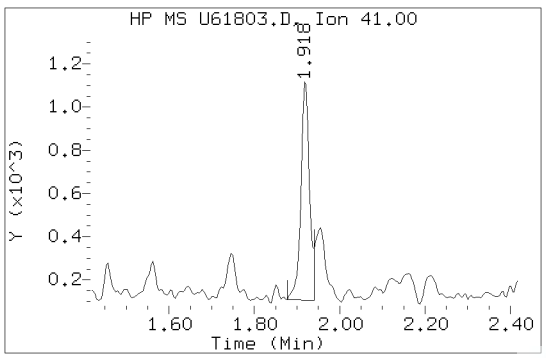
BEFORE

MASS
41
AREA
1456
HEIGHT
1008
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
41
AREA
1456
HEIGHT
1008
26-Jun-2024
12:29
RUCHA
PATEL



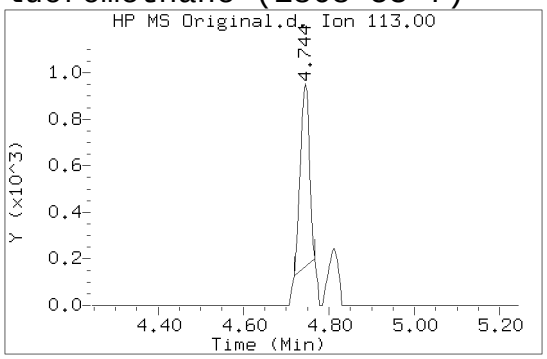
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61803.D
Inj Date : 18-JUN-2024 11:55
InstruID : VOA9.i
LabSampID : VSTD00.5

Dibromofluoromethane (1868-53-7)

Reason Code:

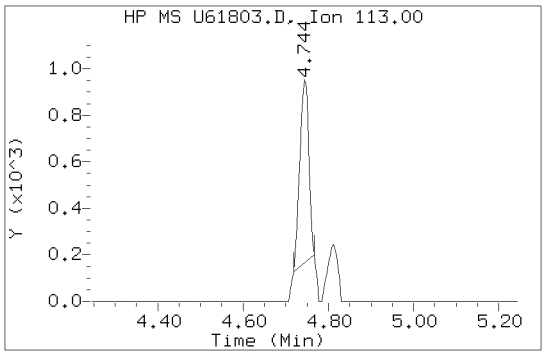
BEFORE

MASS
113
AREA
1180
HEIGHT
786
26-Jun-2024
12:29
RUCHA
PATEL



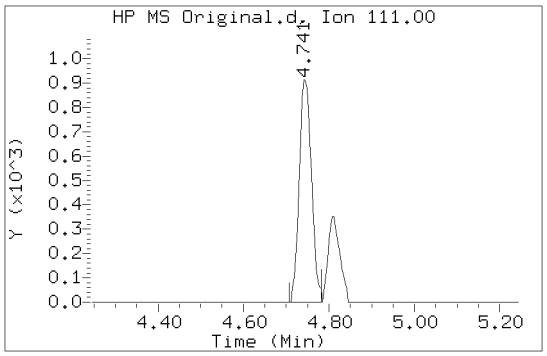
AFTER

MASS
113
AREA
1180
HEIGHT
786
26-Jun-2024
12:29
RUCHA
PATEL



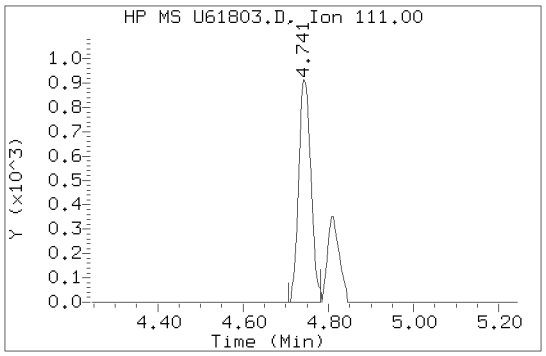
BEFORE

MASS
111
AREA
1863
HEIGHT
913
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
111
AREA
1863
HEIGHT
913
26-Jun-2024
12:29
RUCHA
PATEL

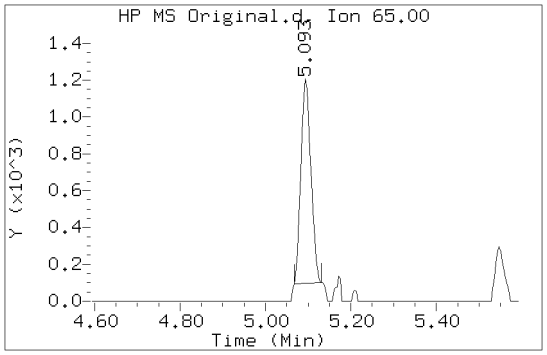


1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

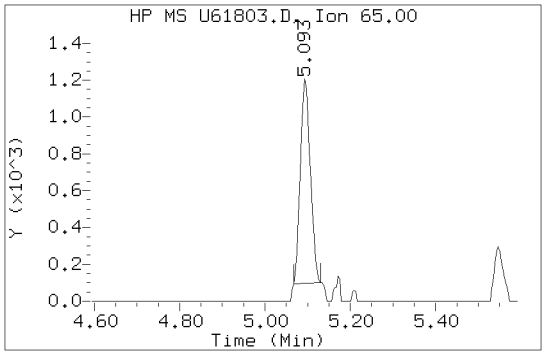
BEFORE

MASS
65
AREA
1841
HEIGHT
1110
26-Jun-2024
12:29
RUCHA
PATEL



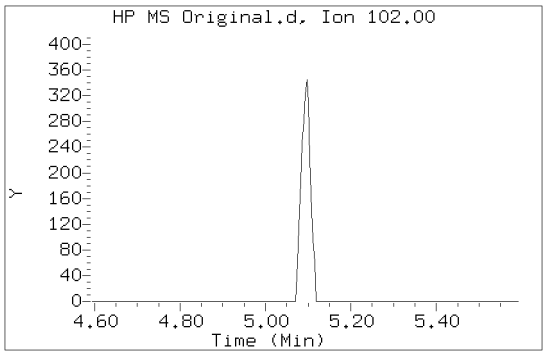
AFTER

MASS
65
AREA
1841
HEIGHT
1110
26-Jun-2024
12:29
RUCHA
PATEL



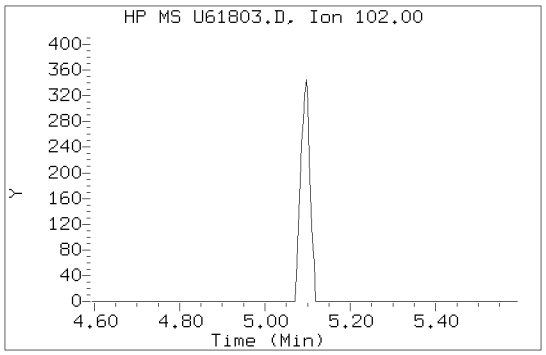
BEFORE

MASS
102
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
102
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61804.D Page 1
Report Date: 26-Jun-2024 12:30

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61804.D
Lab Smp Id: VSTD001 Client Smp ID: VSTD001
Inj Date : 18-JUN-2024 12:16
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD001;VSTD001;1;3
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240618.b\8260C.m
Meth Date : 26-Jun-2024 12:30 VOA9.i Quant Type: ISTD
Cal Date : 18-JUN-2024 11:55 Cal File: U61803.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.819	4.819	(1.000)	265109	50.0000	
2	Dichlorodifluoromethane	85	1.172	1.172	(0.243)	1224	1.00000	1.11(M)
3	Chloromethane	50	1.303	1.303	(0.270)	10129	1.00000	1.08
4	Propionitrile	54	4.347	4.347	(0.902)	4439	10.0000	8.71(a)
5	Vinyl Chloride	62	1.385	1.385	(0.288)	2113	1.00000	0.79(M)
6	Bromomethane	94	1.625	1.625	(0.337)	1890	1.00000	0.35(a)
7	Chloroethane	64	1.708	1.708	(0.354)	1548	1.00000	0.87(M)
8	Trichlorofluoromethane	101	1.903	1.903	(0.395)	2131	1.00000	0.86
9	Acrolein	56	2.270	2.270	(0.471)	716	2.00000	2.19(aM)
10	Acetone	43	2.412	2.412	(0.501)	5068	2.00000	2.33
11	1,1-Dichloroethene	96	2.334	2.334	(0.484)	1500	1.00000	0.81
12	Isobutyl Alcohol	43	5.288	5.288	(1.097)	6938	20.0000	33.50(a)
13	Acetonitrile	39	2.675	2.675	(0.555)	3190	10.0000	9.98(a)
14	Allyl Chloride	41	2.675	2.675	(0.555)	7211	1.00000	0.70(a)
15	Iodomethane	142	2.472	2.472	(0.513)	674	2.00000	2.78(T)
16	Acrylonitrile	53	3.068	3.068	(0.637)	2337	2.00000	1.73
17	Methylene Chloride	84	2.799	2.799	(0.581)	4673	1.00000	0.69
18	Methyl tert-butyl ether	73	3.080	3.080	(0.639)	7295	1.00000	0.80
19	Carbon Disulfide	76	2.525	2.525	(0.524)	9162	2.00000	2.53
20	trans-1,2-Dichloroethene	96	3.065	3.065	(0.636)	2162	1.00000	0.90

21 Vinyl Acetate	43	4.347	4.347 (0.902)	2068	2.00000	1.90(M)
22 1,1-Dichloroethane	63	3.518	3.518 (0.730)	4125	1.00000	0.82(T)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.612	3.612	(0.750)	2695	1.00000	1.00(a)
	24 2-Butanone	43	4.272	4.272	(0.886)	4102	2.00000	2.76
	25 Methacrylonitrile	41	4.500	4.500	(0.934)	1925	1.00000	1.60(a)
	26 2,2-Dichloropropane	77	4.186	4.186	(0.869)	2438	1.00000	1.10(M)
	27 cis-1,2-Dichloroethene	96	4.201	4.201	(0.872)	2457	1.00000	0.77
	28 Chloroform	83	4.575	4.575	(0.949)	4019	1.00000	0.86
	29 Bromochloromethane	128	4.470	4.470	(0.928)	1331	1.00000	0.82
$	30 Dibromofluoromethane	113	4.748	4.748	(0.985)	2421	1.00000	1.43(M)
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.984)	2280	1.00000	0.90
	32 1,1-Dichloropropene	75	4.924	4.924	(0.887)	2561	1.00000	1.01
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	1928	1.00000	0.91(M)
$	35 1,2-Dichloroethane-d4	65	5.100	5.100	(1.058)	3717	1.00000	1.84(M)
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	387415	50.0000	
	37 Benzene	78	5.141	5.141	(0.926)	9224	1.00000	0.90
	38 Trichloroethene	130	5.794	5.794	(1.043)	1972	1.00000	0.78(a)
	39 Bromodichloromethane	83	6.281	6.281	(1.131)	2445	1.00000	1.28(aM)
	40 Methyl Methacrylate	41	5.831	5.831	(1.210)	783	1.00000	1.01(a)
	42 1,2-Dichloropropane	63	6.011	6.011	(1.082)	2553	1.00000	0.67(aM)
	43 2-Nitropropane	43	6.510	6.510	(1.351)	455	1.00000	1.05(aM)
	44 Dibromomethane	93	6.120	6.120	(1.102)	1603	1.00000	1.01(a)
	45 4-Methyl-2-Pentanone	43	6.855	6.855	(0.837)	5345	2.00000	3.08(a)
	46 cis-1,3-Dichloropropene	75	6.693	6.693	(1.205)	2700	1.00000	1.96(a)
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	360656	50.0000	
$	48 Toluene-d8	98	6.926	6.926	(0.846)	10755	1.00000	1.72(a)
	49 Ethyl Methacrylate	69	7.293	7.293	(1.313)	3055	1.00000	0.92(a)
	50 Toluene	91	6.982	6.982	(0.853)	8671	1.00000	1.03(a)
	51 trans-1,3-Dichloropropene	75	7.200	7.200	(1.296)	2056	1.00000	1.62(a)
	52 2-Hexanone	43	7.218	7.218	(0.882)	7411	2.00000	1.07(a)
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	4183	1.00000	1.09(a)
	55 Dibromochloromethane	129	7.691	7.691	(0.940)	1619	1.00000	1.67(a)
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	1470	1.00000	0.95(a)
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	2126	1.00000	1.23(a)
	58 1-Chlorohexane	55	8.189	8.189	(1.474)	5001	1.00000	1.19(a)
	59 Chlorobenzene	112	8.212	8.212	(1.003)	6508	1.00000	0.87(a)
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	1864	1.00000	1.06(a)
	61 Ethylbenzene	106	8.305	8.305	(1.015)	2437	1.00000	0.93(aM)
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	5128	2.00000	1.72(a)
	63 o-Xylene	106	8.748	8.748	(1.069)	2629	1.00000	0.90(aM)
	64 Styrene	104	8.766	8.766	(1.071)	4573	1.00000	0.91(a)
	66 Bromoform	173	8.920	8.920	(1.090)	1125	1.00000	1.88(aM)
	67 Isopropylbenzene	105	9.066	9.066	(1.108)	6546	1.00000	0.85(a)
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	3836	1.00000	1.11(aM)
$	69 4-Bromofluorobenzene	95	9.198	9.198	(1.124)	4865	1.00000	2.03(a)
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	196378	50.0000	
	71 1,2,3-Trichloropropane	75	9.363	9.363	(0.920)	3650	1.00000	1.26(aM)
	72 trans-1,4-Dichloro-2-butene	53	9.381	9.381	(1.146)	786	1.00000	1.46(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	7242	1.00000	0.84(a)
	74 Bromobenzene	156	9.321	9.321	(0.916)	2771	1.00000	0.71(a)
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	4586	1.00000	0.83(a)
	76 2-Chlorotoluene	91	9.486	9.486	(0.933)	5848	1.00000	0.79(a)
	77 4-Chlorotoluene	91	9.580	9.580	(0.942)	6772	1.00000	0.94(a)
	78 tert-Butylbenzene	119	9.839	9.839	(0.967)	4429	1.00000	0.83(a)

79 1,2,4-Trimethylbenzene	105	9.880	9.880 (0.971)	8153	1.00000	1.75(a)
81 sec-Butylbenzene	105	10.026	10.026 (0.986)	5732	1.00000	0.81(a)

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61804.D Page 3
Report Date: 26-Jun-2024 12:30

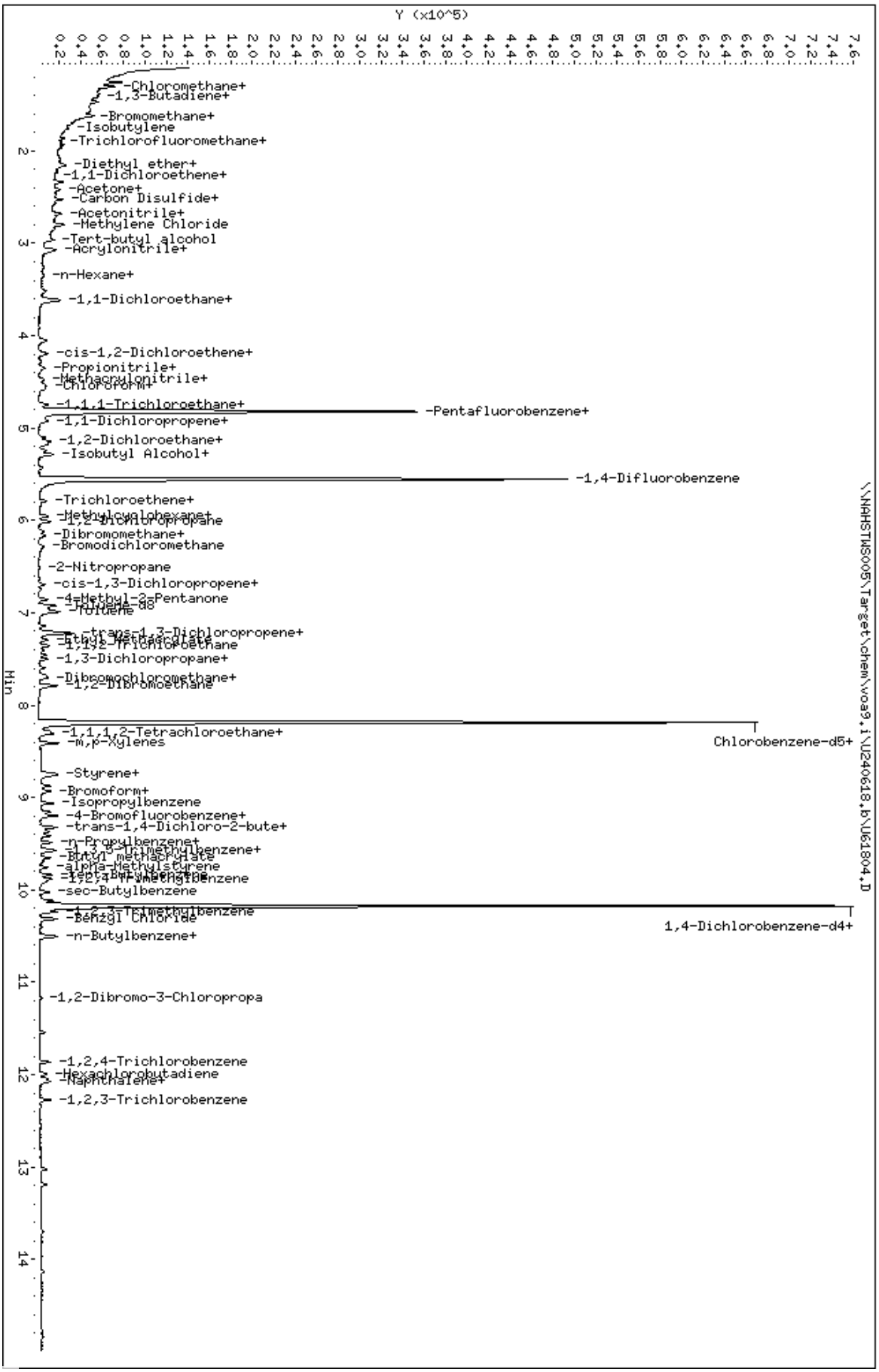
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
82	p-Isopropyltoluene	119	10.146	10.146	(0.997)	4574	1.00000	0.77(a)
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	5061	1.00000	0.73(a)
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	5568	1.00000	0.77(a)
86	Benzyl Chloride	91	10.315	10.315	(1.260)	10840	1.00000	1.64(a)
87	n-Butylbenzene	91	10.495	10.495	(1.032)	4405	1.00000	0.81(a)
88	1,2-Dichlorobenzene	146	10.510	10.510	(1.033)	4822	1.00000	0.75(a)
89	1,2-Dibromo-3-Chloropropane	155	11.173	11.173	(1.098)	469	1.00000	1.67(aM)
90	1,2,4-Trichlorobenzene	180	11.863	11.863	(1.166)	3160	1.00000	0.84(a)
91	Hexachlorobutadiene	225	12.002	12.002	(1.180)	1156	1.00000	0.82(aM)
92	Naphthalene	128	12.073	12.073	(1.187)	6806	1.00000	1.73(a)
93	1,2,3-Trichlorobenzene	180	12.275	12.275	(1.207)	3052	1.00000	0.99(a)
146	Methyl acetate	43	2.716	2.716	(0.564)	3664	1.00000	1.33(a)
138	Freon TF	101	2.341	2.341	(0.486)	1129	1.00000	0.77(a)
141	Cyclohexane	56	4.815	4.815	(0.999)	6476	1.00000	0.81(a)
147	Methylcyclohexane	55	5.947	5.947	(1.071)	5007	1.00000	1.17(a)
135	1,4-Dioxane	88	6.172	6.172	(1.281)	1572	20.0000	19.54(a)
132	n-Butanol	56	5.835	5.835	(1.211)	1519	20.0000	28.13(a)
136	n-Hexane	57	3.346	3.346	(0.694)	1389	1.00000	0.79(Ta)
139	Diethyl ether	59	2.150	2.150	(0.446)	2280	1.00000	0.66(a)
148	Tert-butyl alcohol	59	2.967	2.967	(0.616)	5606	20.0000	11.91
149	Isopropyl alcohol	45	2.566	2.566	(0.533)	3844	20.0000	14.83(T)
156	Diisopropyl ether	45	3.623	3.623	(0.752)	9772	1.00000	0.89(Ta)
162	Butyl acrylate	55	8.736	8.736	(1.067)	4536	1.00000	1.01(a)
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	12471	1.00000	0.95(aM)
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	6963	1.00000	1.80(a)
167	Ethanol	45	2.090	2.090	(0.434)	1355	20.0000	20.88(M)
172	tert-Butyl formate	59	5.239	5.239	(1.087)	4610	2.00000	1.99(aM)
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.300)	19143	20.0000	23.74
140	1,3-Butadiene	54	1.412	1.412	(0.293)	943	1.00000	1.05(aM)
182	Epichlorohydrin	57	6.637	6.637	(1.195)	316	4.00000	9.10(M)
M 94	1,2-Dichloroethylene (total)	96				4619	2.00000	(a)
130	Ethyl Acetate	43	4.538	4.538	(0.942)	1487	1.00000	1.36(aM)
131	Methyl Acrylate	55	4.380	4.380	(0.909)	3553	1.00000	0.95(aM)
189	n-Butyl acetate	43	7.709	7.709	(0.942)	3987	1.00000	1.35(a)
134	Cyclohexanone	55	9.156	9.156	(0.900)	4122	20.0000	8.05(a)
185	Isoprene	39	2.165	2.165	(0.449)	833	1.00000	1.89(a)
188	Isopropyl acetate	43	5.288	5.288	(0.952)	6772	1.00000	1.08(a)
150	Allyl alcohol	57	3.346	3.346	(0.694)	1389	20.0000	15.93
194	Acetaldehyde	44	1.468	1.468	(0.305)	3406	4.00000	5.42(M)
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	1094	1.00000	1.64(aM)
202	Isobutylene	41	1.756	1.756	(0.365)	895	1.00000	1.15(aM)
133	Ethyl Acrylate	55	5.947	5.947	(1.234)	5120	1.00000	1.19(aM)
159	Propylene oxide	43	2.206	2.206	(0.458)	548	2.00000	1.18(aM)
178	Ethylene oxide	44	1.614	1.614	(0.335)	4269	2.00000	1.47(aM)
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	2980	1.00000	1.90(a)
204	Tetrahydrothiophene	60	7.676	7.676	(0.938)	2486	1.00000	0.91(aA)
205	sec-Butyl Ether	57	7.218	7.218	(0.882)	5760	1.00000	0.53(aAM)
187	n-Amyl acetate	43	8.931	8.931	(1.091)	4009	1.00000	0.85(aM)
206	2-Chloropropene	41	1.933	1.933	(0.401)	3109	1.00000	1.16(aAM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

QC Flag Legend

A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa9,i\U240618,b\U61804,D
Date : 18-JUN-2024 12:16
Client ID: VSTD001
Sample Info: VSTD001;VSTD001;1;3
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: TS
Column diameter: 0.18

\\NAHSTWS005\Target\chem\voa9,i\U240618,b\U61804,D

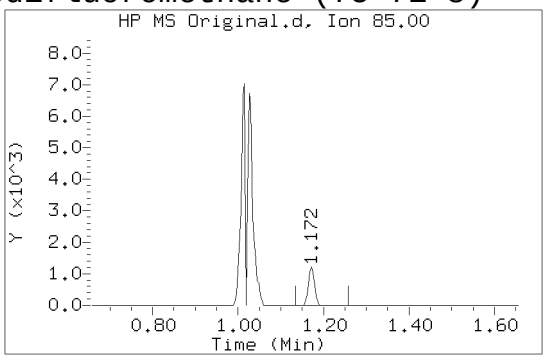
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61804.D
Inj Date : 18-JUN-2024 12:16
InstruID : VOA9.i
LabSampID : VSTD001

Dichlorodifluoromethane (75-71-8)

Reason Code:

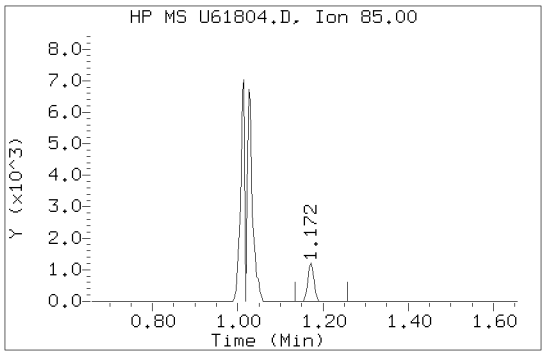
BEFORE

MASS
85
AREA
1224
HEIGHT
1211
26-Jun-2024
12:29
RUCHA
PATEL



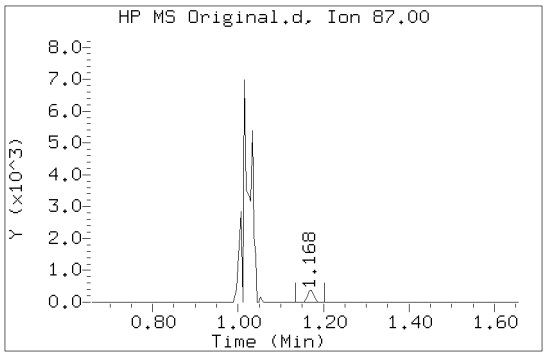
AFTER

MASS
85
AREA
1224
HEIGHT
1211
26-Jun-2024
12:29
RUCHA
PATEL



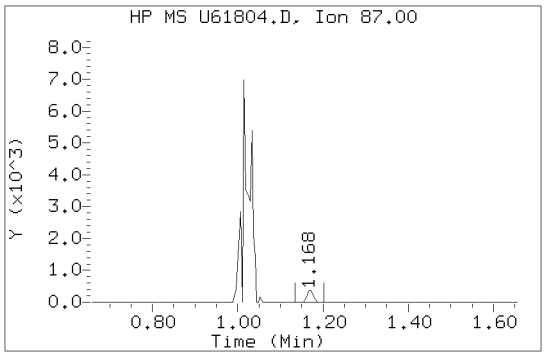
BEFORE

MASS
87
AREA
400
HEIGHT
369
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
87
AREA
400
HEIGHT
369
26-Jun-2024
12:29
RUCHA
PATEL

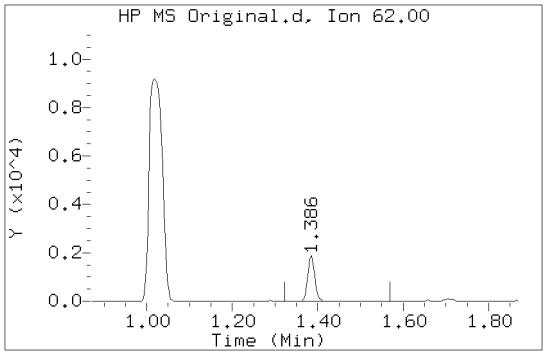


Vinyl Chloride (75-01-4)

Reason Code:

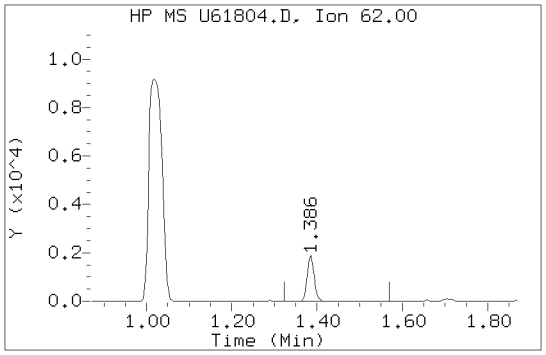
BEFORE

MASS
62
AREA
2113
HEIGHT
1873
26-Jun-2024
12:29
RUCHA
PATEL



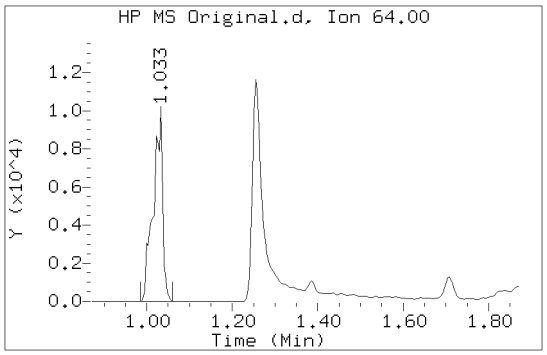
AFTER

MASS
62
AREA
2113
HEIGHT
1873
26-Jun-2024
12:29
RUCHA
PATEL



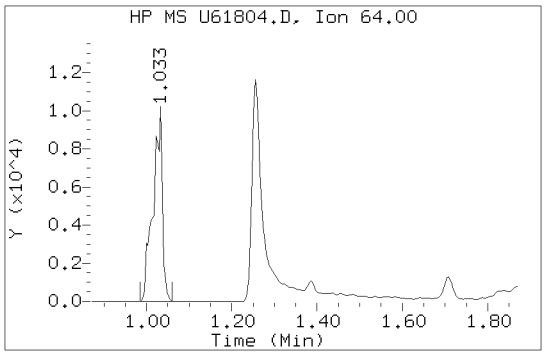
BEFORE

MASS
64
AREA
15378
HEIGHT
10235
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
64
AREA
15378
HEIGHT
10235
26-Jun-2024
12:29
RUCHA
PATEL



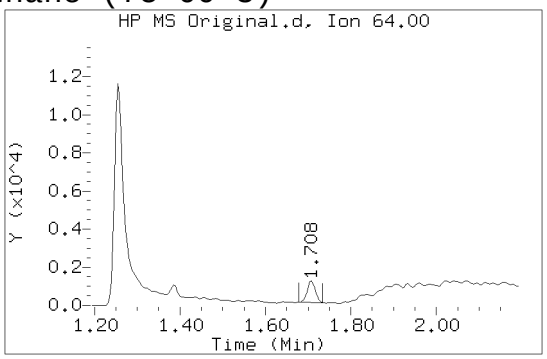
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61804.D
Inj Date : 18-JUN-2024 12:16
InstruID : VOA9.i
LabSampID : VSTD001

Chloroethane (75-00-3)

Reason Code:

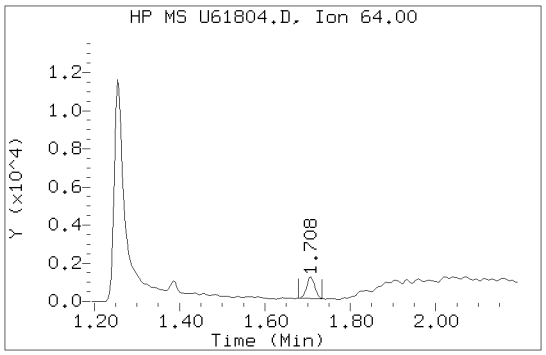
BEFORE

MASS
64
AREA
1548
HEIGHT
1129
26-Jun-2024
12:29
RUCHA
PATEL



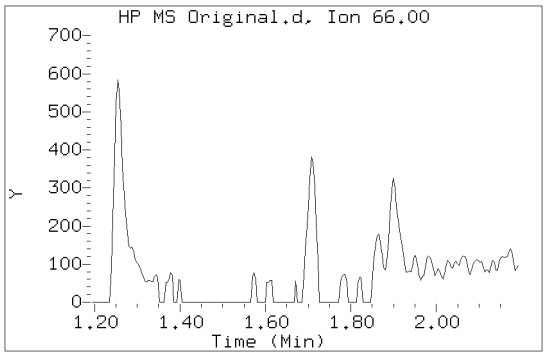
AFTER

MASS
64
AREA
1548
HEIGHT
1129
26-Jun-2024
12:29
RUCHA
PATEL



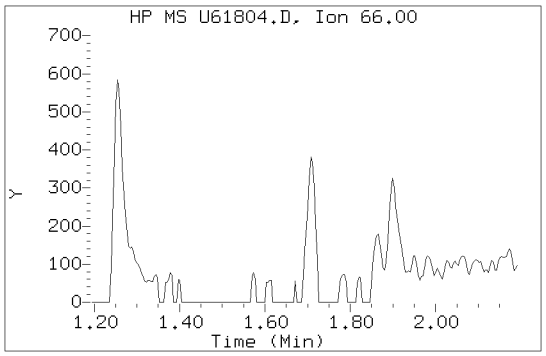
BEFORE

MASS
66
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
66
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL

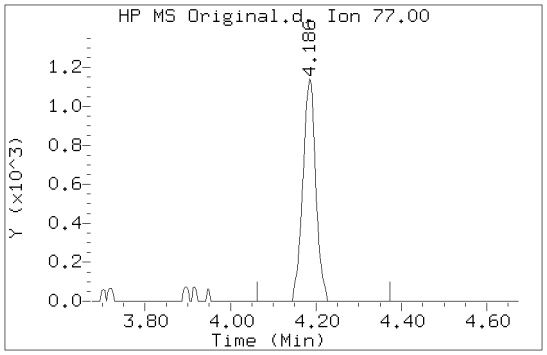


2,2-Dichloropropane (594-20-7)

Reason Code:

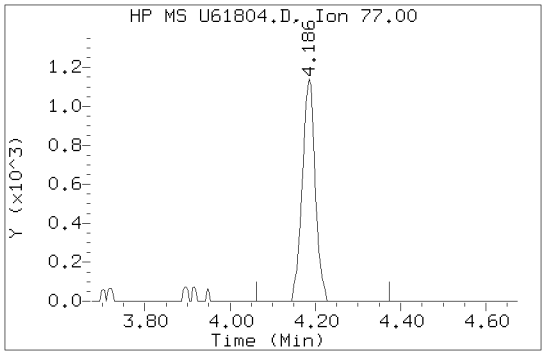
BEFORE

MASS
77
AREA
2438
HEIGHT
1141
26-Jun-2024
12:29
RUCHA
PATEL



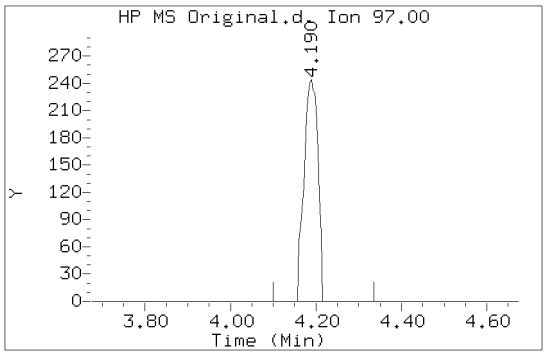
AFTER

MASS
77
AREA
2438
HEIGHT
1141
26-Jun-2024
12:29
RUCHA
PATEL



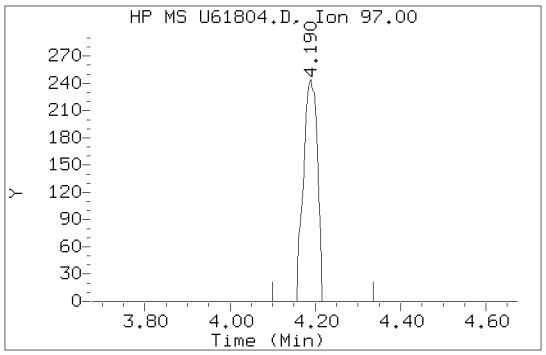
BEFORE

MASS
97
AREA
560
HEIGHT
244
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
97
AREA
560
HEIGHT
244
26-Jun-2024
12:29
RUCHA
PATEL



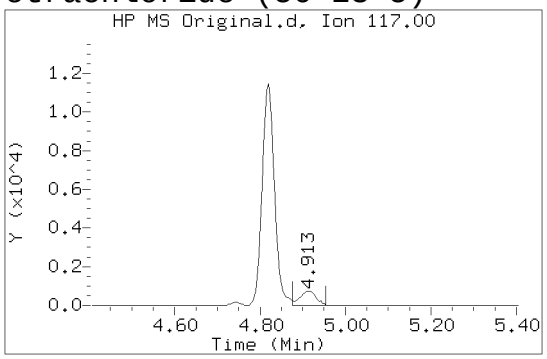
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61804.D
Inj Date : 18-JUN-2024 12:16
InstruID : VOA9.i
LabSampID : VSTD001

Carbon Tetrachloride (56-23-5)

Reason Code:

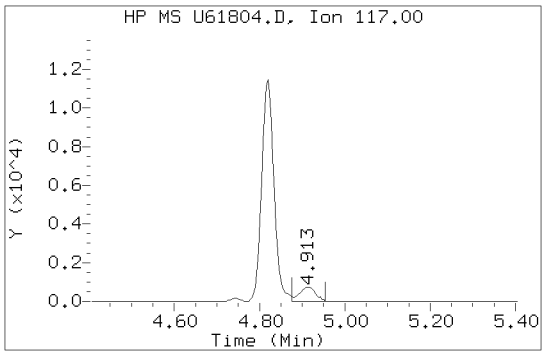
BEFORE

MASS
117
AREA
1928
HEIGHT
723
26-Jun-2024
12:29
RUCHA
PATEL



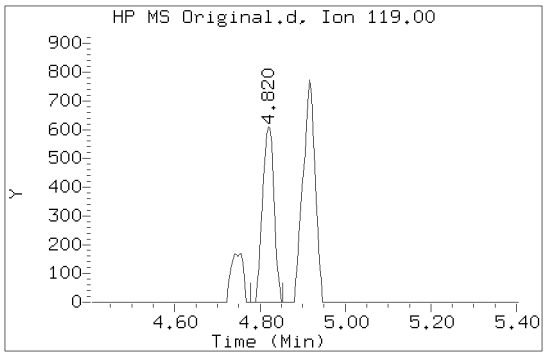
AFTER

MASS
117
AREA
1928
HEIGHT
723
26-Jun-2024
12:29
RUCHA
PATEL



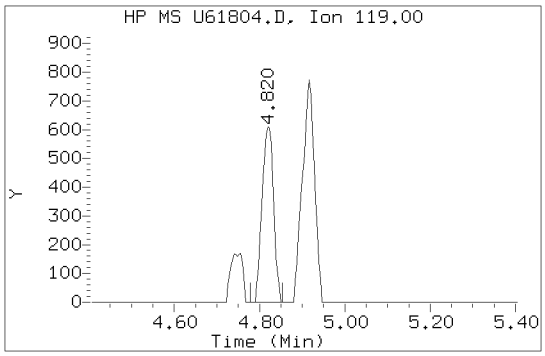
BEFORE

MASS
119
AREA
1140
HEIGHT
611
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
119
AREA
1140
HEIGHT
611
26-Jun-2024
12:29
RUCHA
PATEL

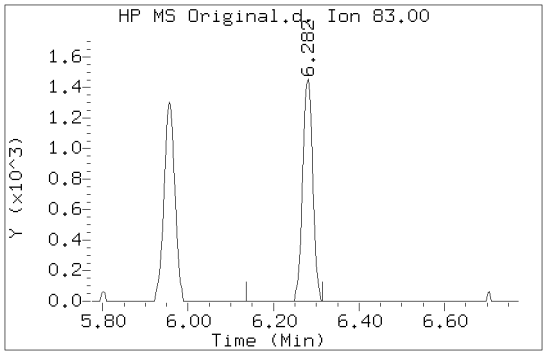


Bromodichloromethane (75-27-4)

Reason Code:

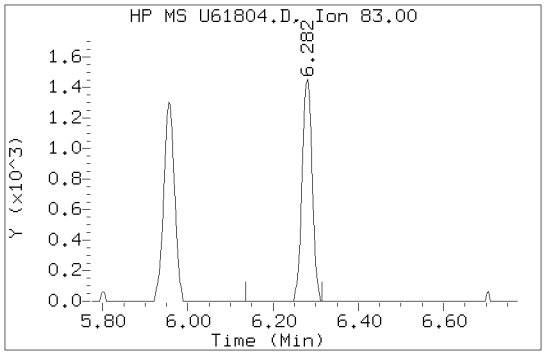
BEFORE

MASS
83
AREA
2445
HEIGHT
1456
26-Jun-2024
12:29
RUCHA
PATEL



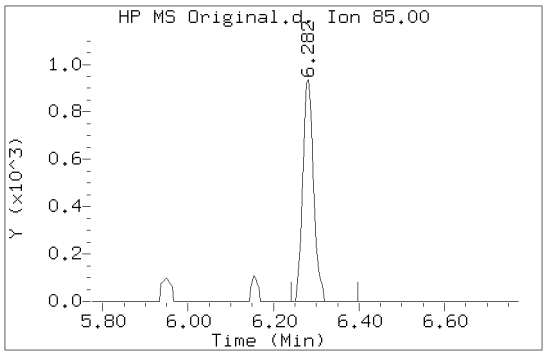
AFTER

MASS
83
AREA
2445
HEIGHT
1456
26-Jun-2024
12:29
RUCHA
PATEL



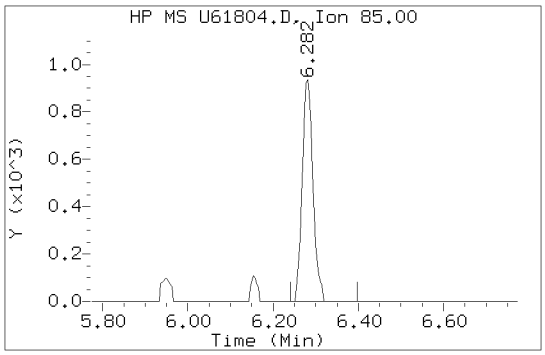
BEFORE

MASS
85
AREA
1675
HEIGHT
936
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
85
AREA
1675
HEIGHT
936
26-Jun-2024
12:29
RUCHA
PATEL



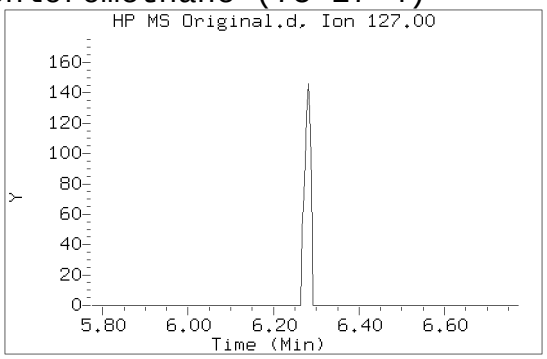
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61804.D
Inj Date : 18-JUN-2024 12:16
InstruID : VOA9.i
LabSampID : VSTD001

Bromodichloromethane (75-27-4)

Reason Code:

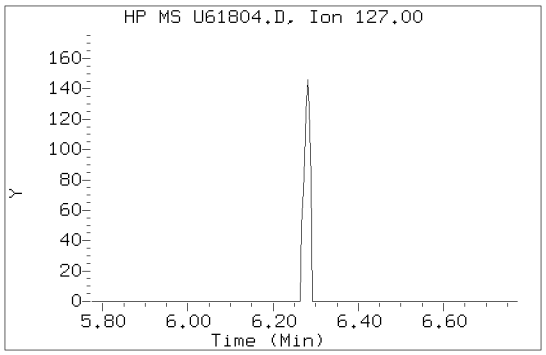
BEFORE

MASS
127
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
127
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL

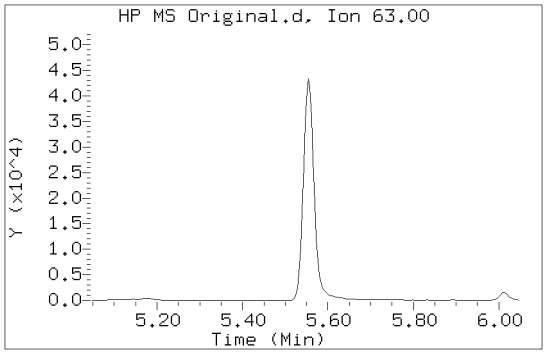


1,2-Dichloropropane (78-87-5)

Reason Code:

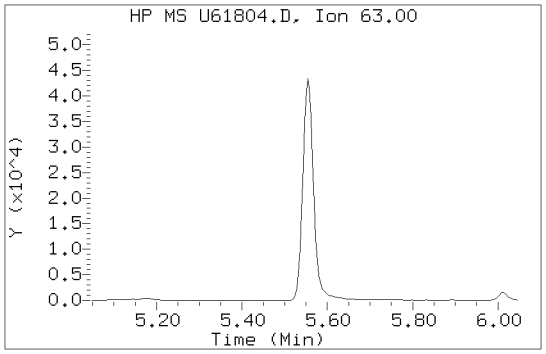
BEFORE

MASS
63
AREA
2553
HEIGHT
1557
26-Jun-2024
12:29
RUCHA
PATEL



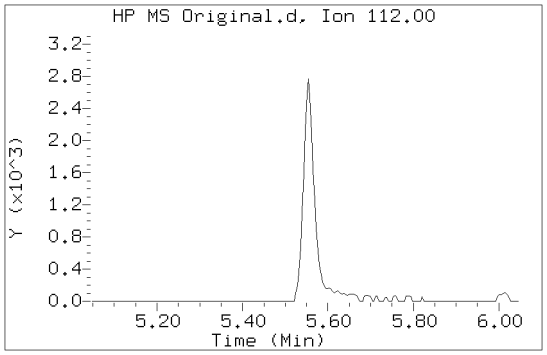
AFTER

MASS
63
AREA
2553
HEIGHT
1557
26-Jun-2024
12:29
RUCHA
PATEL



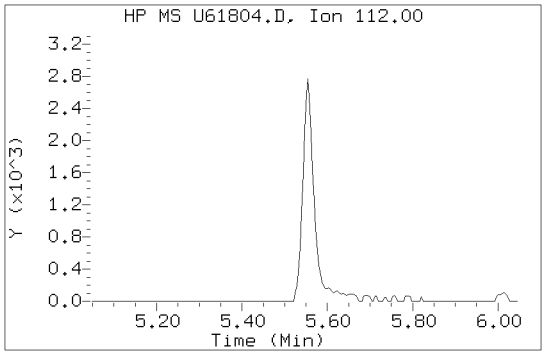
BEFORE

MASS
112
AREA
148
HEIGHT
105
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
112
AREA
148
HEIGHT
105
26-Jun-2024
12:29
RUCHA
PATEL

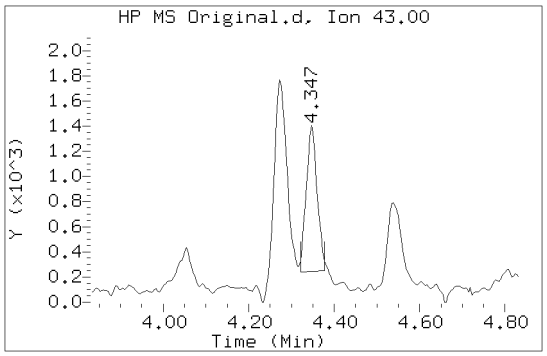


Vinyl Acetate (108-05-4)

Reason Code:

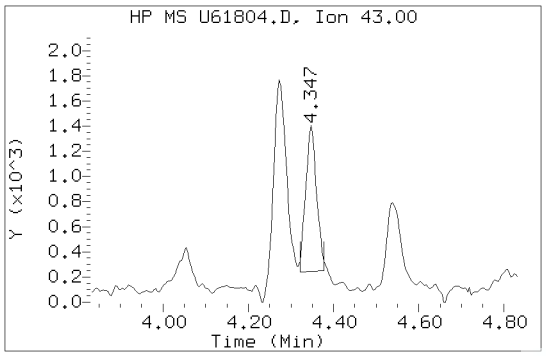
BEFORE

MASS
43
AREA
2068
HEIGHT
1160
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
43
AREA
2068
HEIGHT
1160
26-Jun-2024
12:29
RUCHA
PATEL



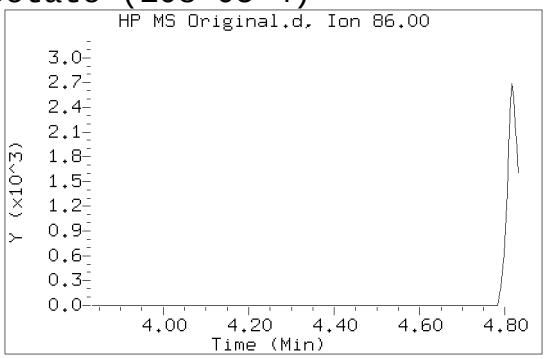
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61804.D
Inj Date : 18-JUN-2024 12:16
InstruID : VOA9.i
LabSampID : VSTD001

Vinyl Acetate (108-05-4)

Reason Code:

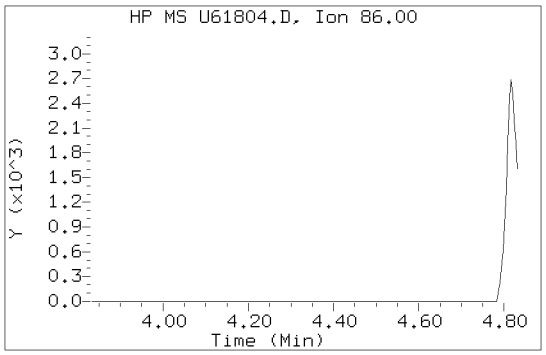
BEFORE

MASS
86
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
86
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL

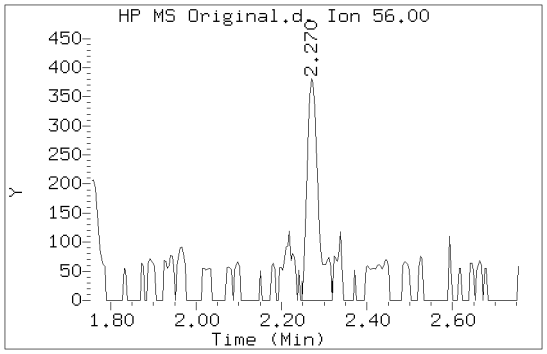


Acrolein (107-02-8)

Reason Code:

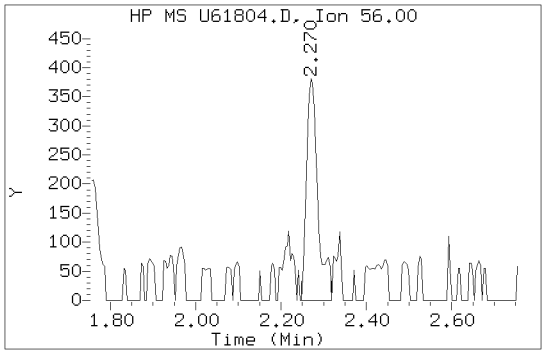
BEFORE

MASS
56
AREA
716
HEIGHT
381
26-Jun-2024
12:29
RUCHA
PATEL



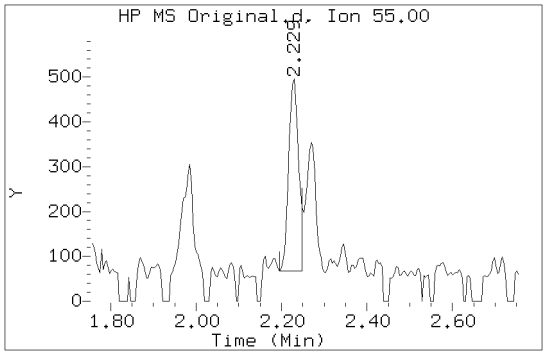
AFTER

MASS
56
AREA
716
HEIGHT
381
26-Jun-2024
12:29
RUCHA
PATEL



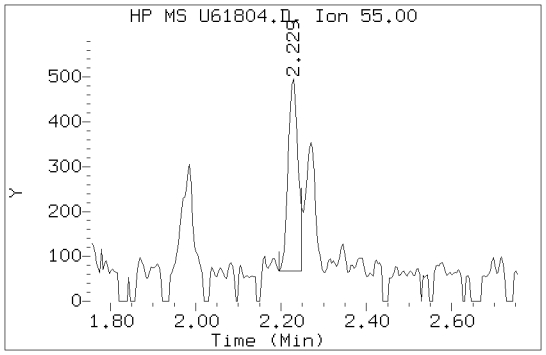
BEFORE

MASS
55
AREA
699
HEIGHT
429
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
55
AREA
699
HEIGHT
429
26-Jun-2024
12:29
RUCHA
PATEL

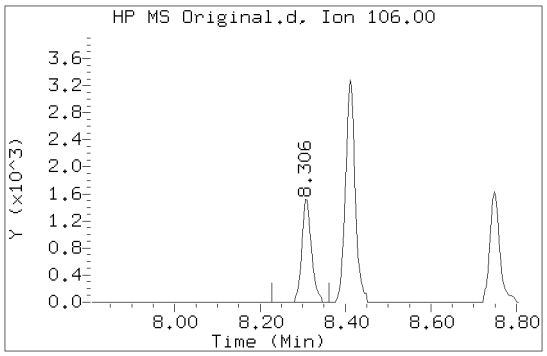


Ethylbenzene (100-41-4)

Reason Code:

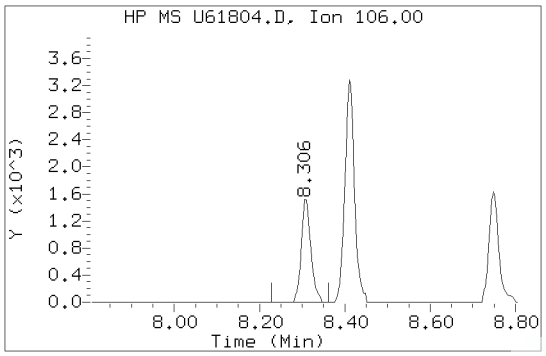
BEFORE

MASS
106
AREA
2437
HEIGHT
1524
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
106
AREA
2437
HEIGHT
1524
26-Jun-2024
12:29
RUCHA
PATEL



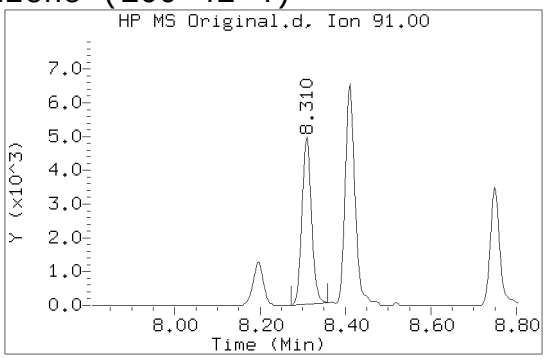
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61804.D
Inj Date : 18-JUN-2024 12:16
InstruID : VOA9.i
LabSampID : VSTD001

Ethylbenzene (100-41-4)

Reason Code:

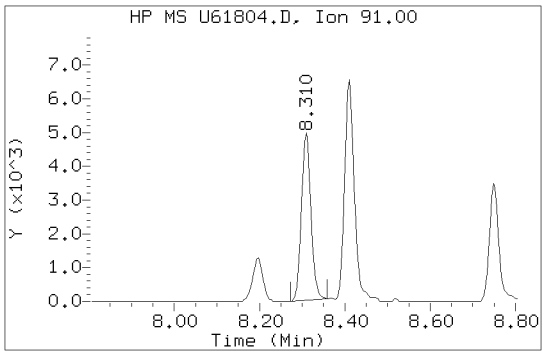
BEFORE

MASS
91
AREA
7822
HEIGHT
4960
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
91
AREA
7822
HEIGHT
4960
26-Jun-2024
12:29
RUCHA
PATEL

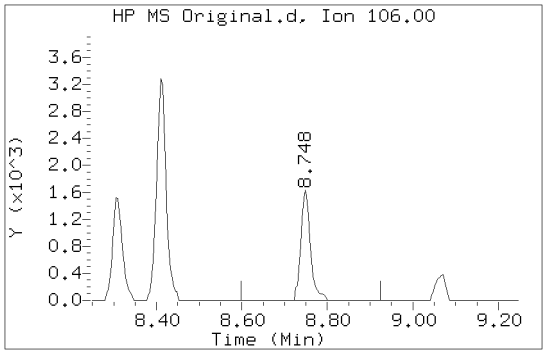


o-Xylene (95-47-6)

Reason Code:

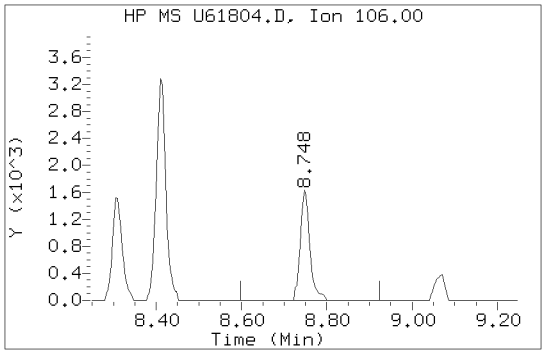
BEFORE

MASS
106
AREA
2629
HEIGHT
1637
26-Jun-2024
12:29
RUCHA
PATEL



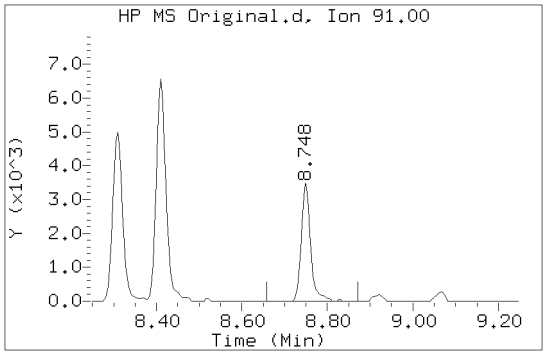
AFTER

MASS
106
AREA
2629
HEIGHT
1637
26-Jun-2024
12:29
RUCHA
PATEL



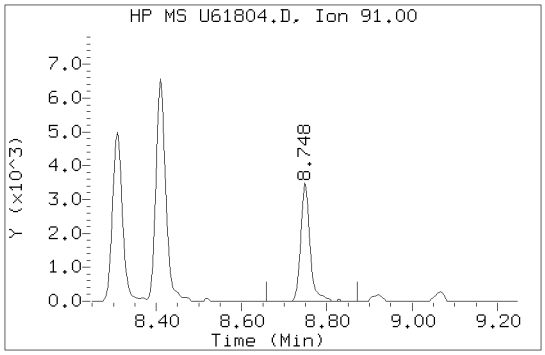
BEFORE

MASS
91
AREA
5454
HEIGHT
3498
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
91
AREA
5454
HEIGHT
3498
26-Jun-2024
12:29
RUCHA
PATEL

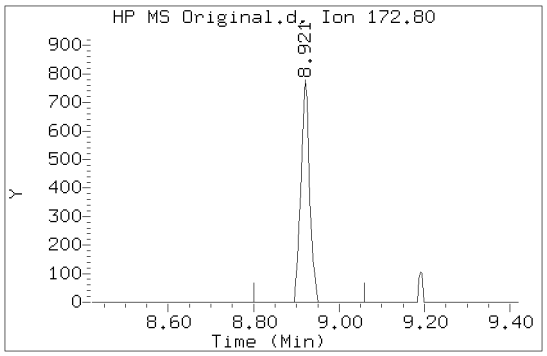


Bromoform (75-25-2)

Reason Code:

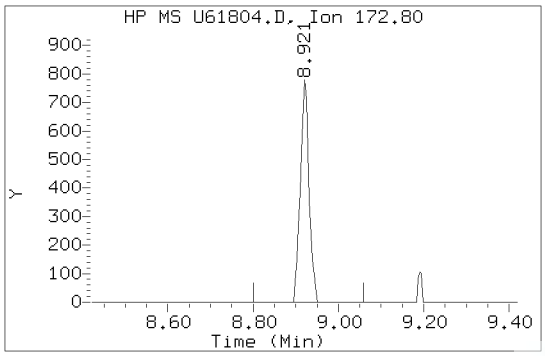
BEFORE

MASS
172.8
AREA
1125
HEIGHT
779
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
172.8
AREA
1125
HEIGHT
779
26-Jun-2024
12:29
RUCHA
PATEL



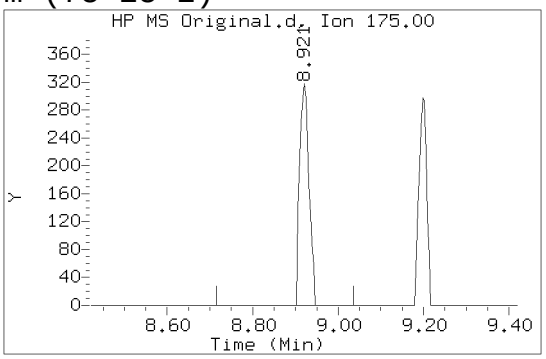
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61804.D
Inj Date : 18-JUN-2024 12:16
InstruID : VOA9.i
LabSampID : VSTD001

Bromoform (75-25-2)

Reason Code:

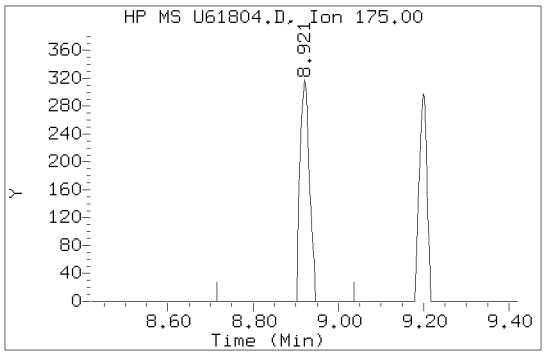
BEFORE

MASS
175
AREA
497
HEIGHT
318
26-Jun-2024
12:29
RUCHA
PATEL



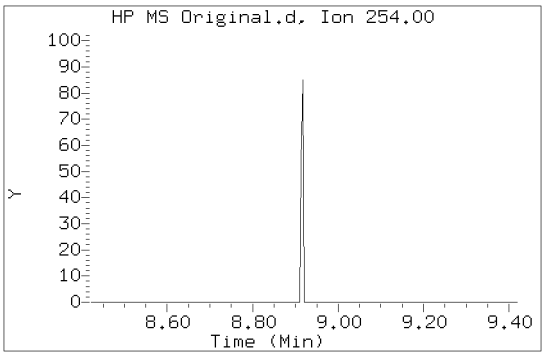
AFTER

MASS
175
AREA
497
HEIGHT
318
26-Jun-2024
12:29
RUCHA
PATEL



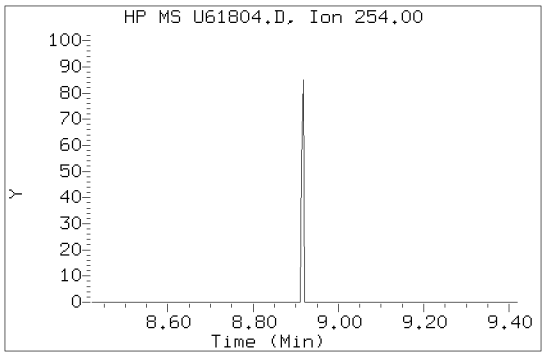
BEFORE

MASS
254
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
254
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL

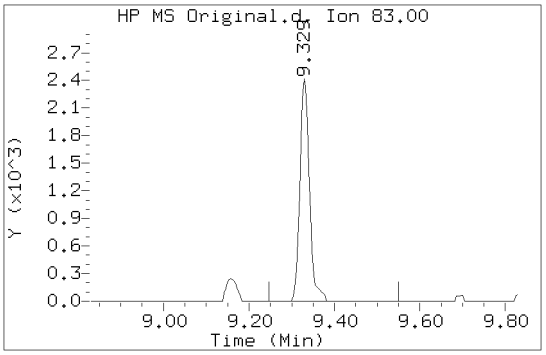


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

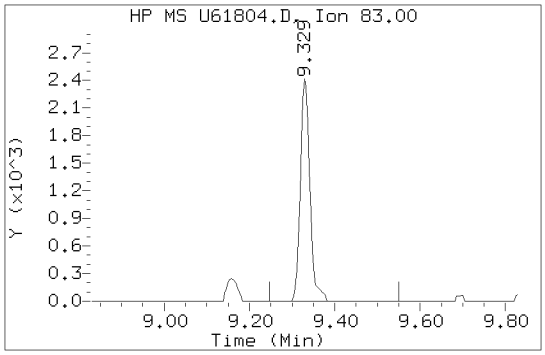
BEFORE

MASS
83
AREA
3836
HEIGHT
2416
26-Jun-2024
12:29
RUCHA
PATEL



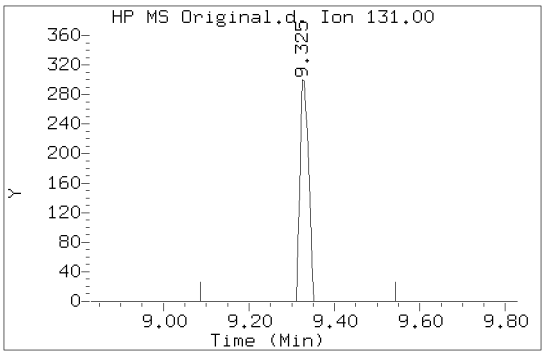
AFTER

MASS
83
AREA
3836
HEIGHT
2416
26-Jun-2024
12:29
RUCHA
PATEL



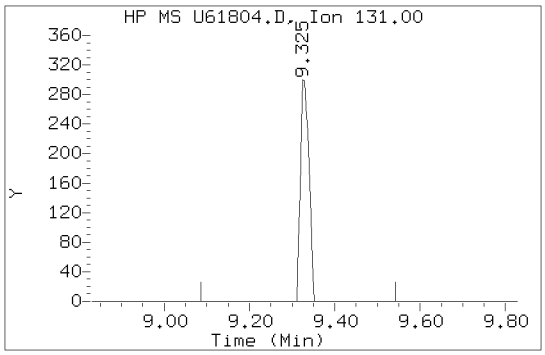
BEFORE

MASS
131
AREA
428
HEIGHT
300
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
131
AREA
428
HEIGHT
300
26-Jun-2024
12:29
RUCHA
PATEL



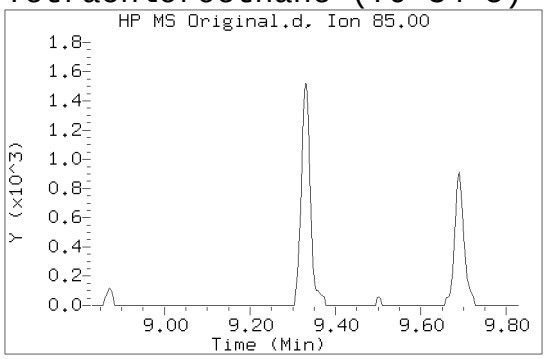
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61804.D
Inj Date : 18-JUN-2024 12:16
InstruID : VOA9.i
LabSampID : VSTD001

1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

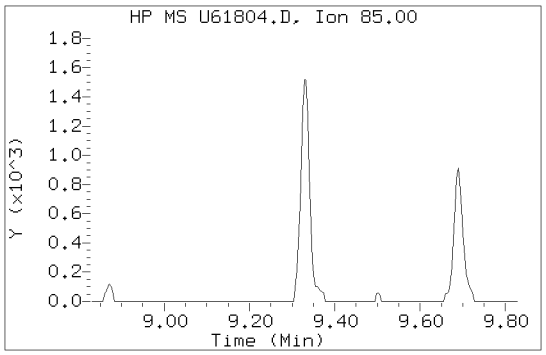
BEFORE

MASS
85
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
85
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL

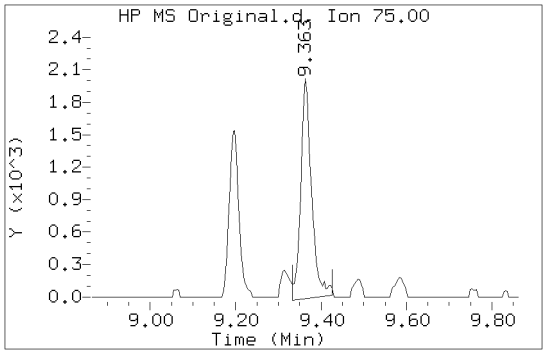


1,2,3-Trichloropropane (96-18-4)

Reason Code:

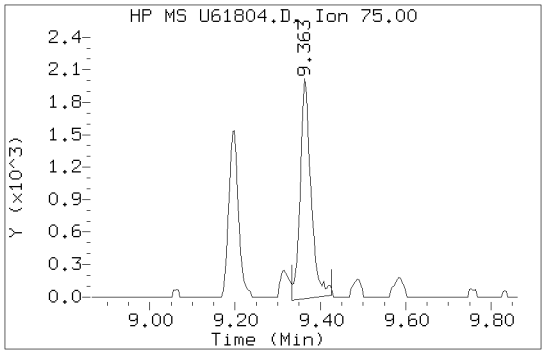
BEFORE

MASS
75
AREA
3650
HEIGHT
2034
26-Jun-2024
12:29
RUCHA
PATEL



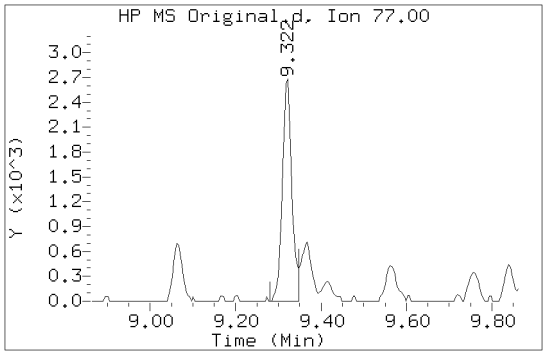
AFTER

MASS
75
AREA
3650
HEIGHT
2034
26-Jun-2024
12:29
RUCHA
PATEL



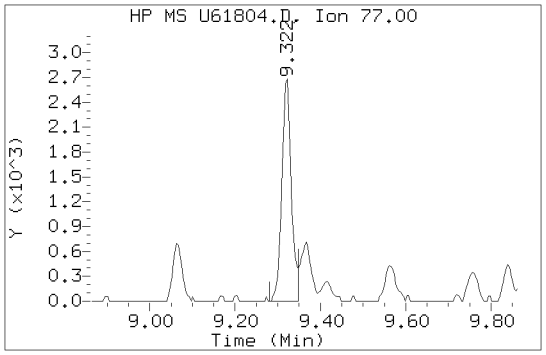
BEFORE

MASS
77
AREA
4172
HEIGHT
2683
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
77
AREA
4172
HEIGHT
2683
26-Jun-2024
12:29
RUCHA
PATEL

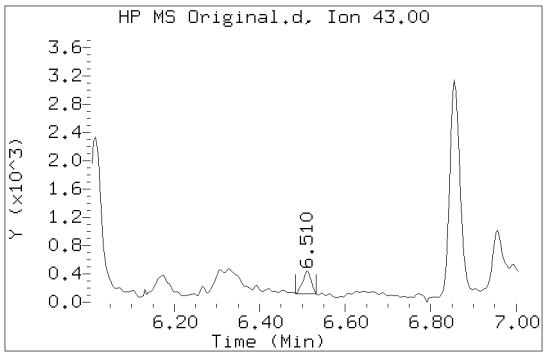


2-Nitropropane (79-46-9)

Reason Code:

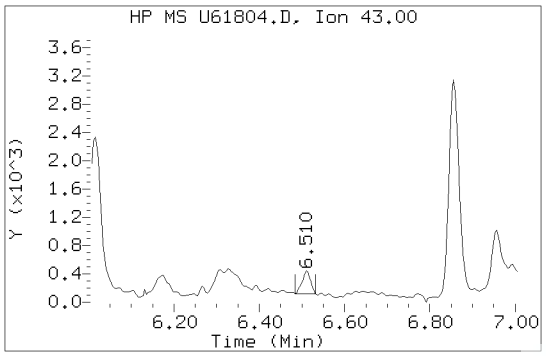
BEFORE

MASS
43
AREA
455
HEIGHT
323
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
43
AREA
455
HEIGHT
323
26-Jun-2024
12:29
RUCHA
PATEL

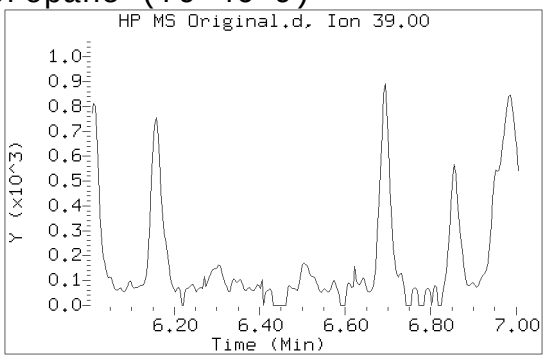


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61804.D
Inj Date : 18-JUN-2024 12:16
InstruID : VOA9.i
LabSampID : VSTD001

2-Nitropropane (79-46-9)

BEFORE

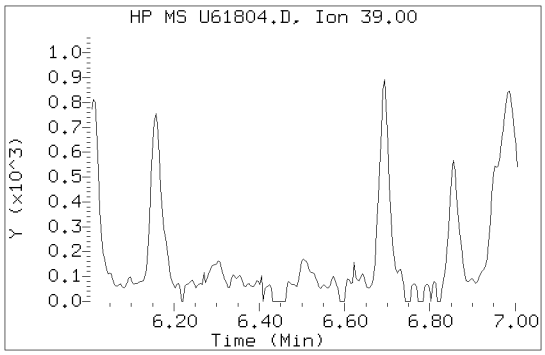
MASS
39
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



Reason Code:

AFTER

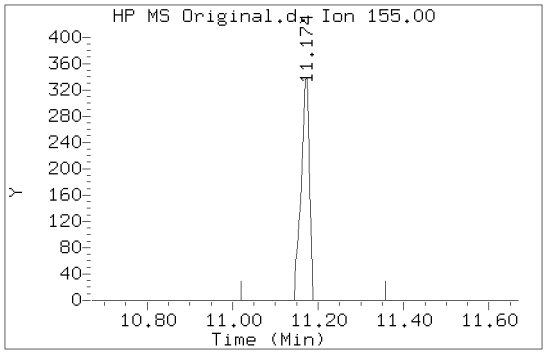
MASS
39
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



1,2-Dibromo-3-Chloropropane (96-12-8)

BEFORE

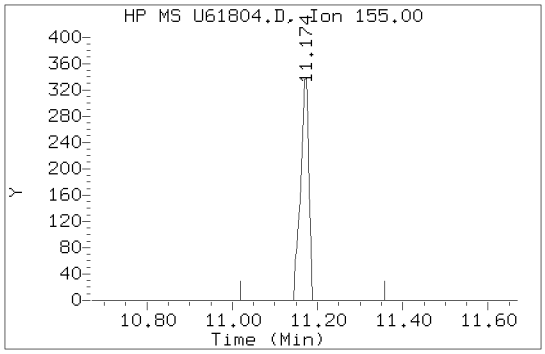
MASS
155
AREA
469
HEIGHT
337
26-Jun-2024
12:29
RUCHA
PATEL



Reason Code:

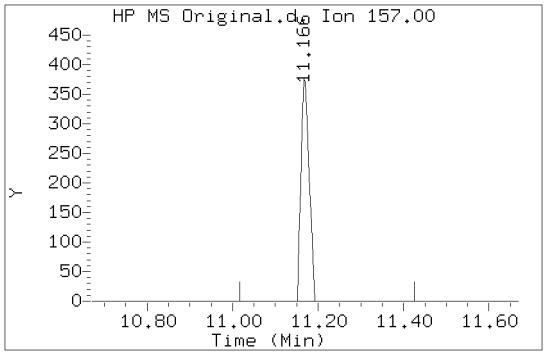
AFTER

MASS
155
AREA
469
HEIGHT
337
26-Jun-2024
12:29
RUCHA
PATEL



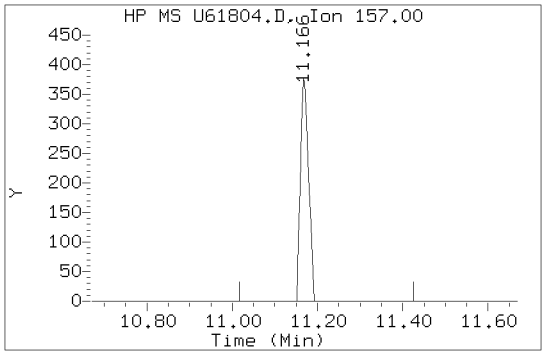
BEFORE

MASS
157
AREA
511
HEIGHT
376
26-Jun-2024
12:29
RUCHA
PATEL



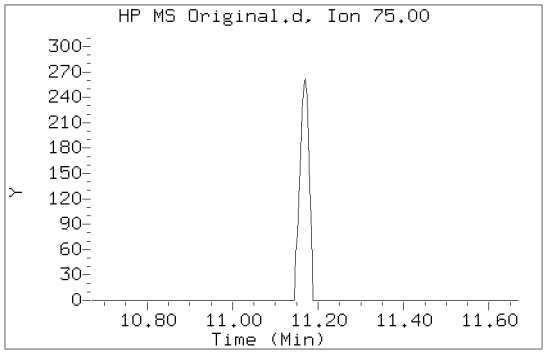
AFTER

MASS
157
AREA
511
HEIGHT
376
26-Jun-2024
12:29
RUCHA
PATEL



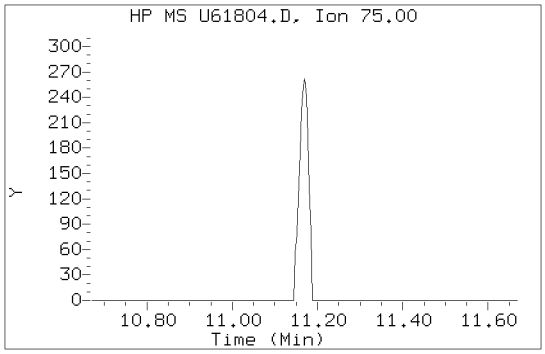
BEFORE

MASS
75
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
75
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



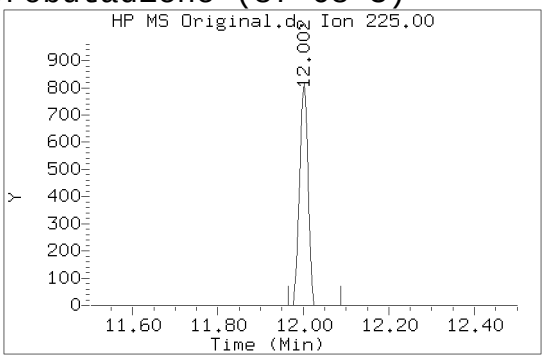
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61804.D
Inj Date : 18-JUN-2024 12:16
InstruID : VOA9.i
LabSampID : VSTD001

Hexachlorobutadiene (87-68-3)

Reason Code:

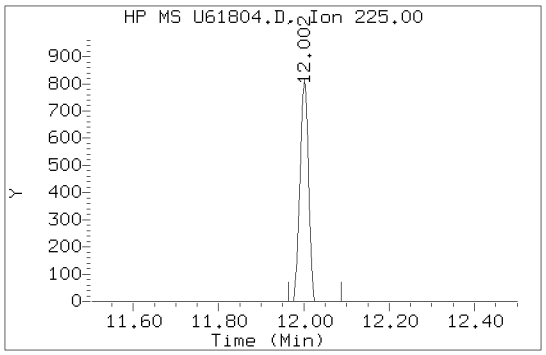
BEFORE

MASS
225
AREA
1156
HEIGHT
815
26-Jun-2024
12:29
RUCHA
PATEL



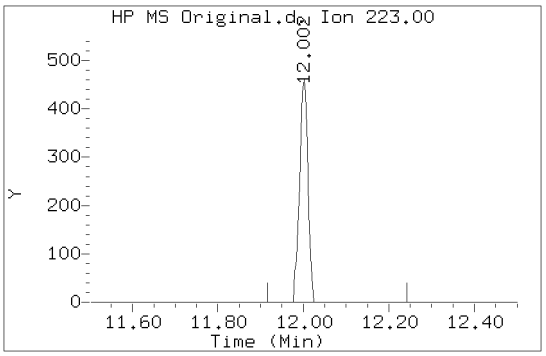
AFTER

MASS
225
AREA
1156
HEIGHT
815
26-Jun-2024
12:29
RUCHA
PATEL



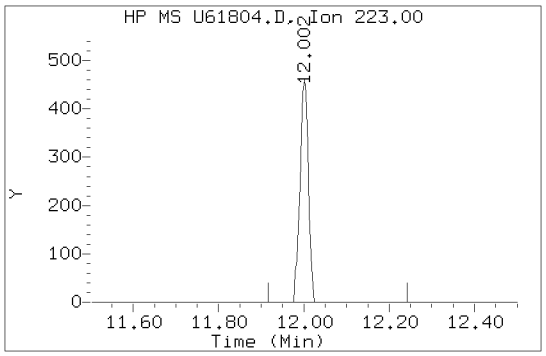
BEFORE

MASS
223
AREA
648
HEIGHT
460
26-Jun-2024
12:29
RUCHA
PATEL



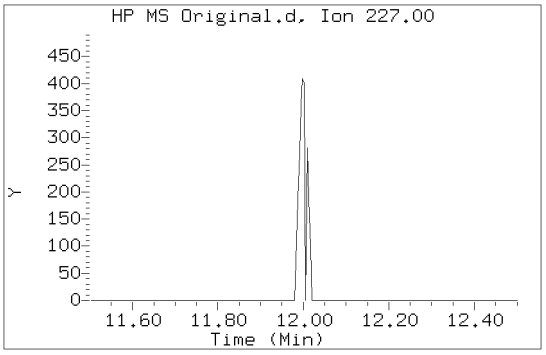
AFTER

MASS
223
AREA
648
HEIGHT
460
26-Jun-2024
12:29
RUCHA
PATEL



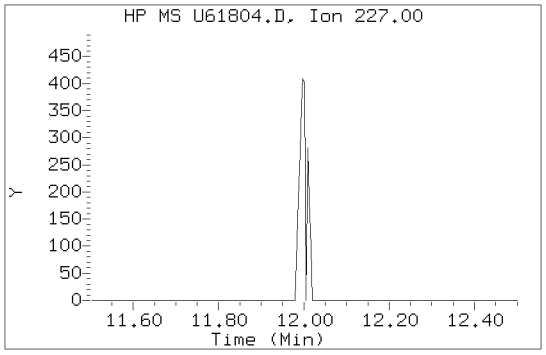
BEFORE

MASS
227
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
227
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL

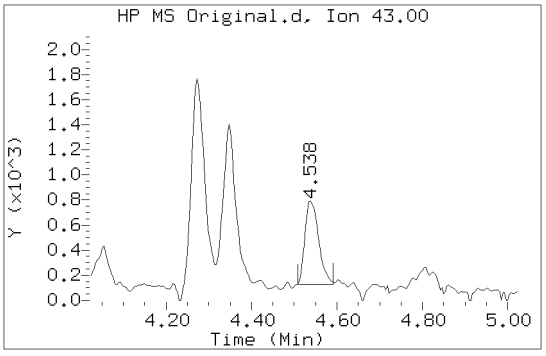


Ethyl Acetate (141-78-6)

Reason Code:

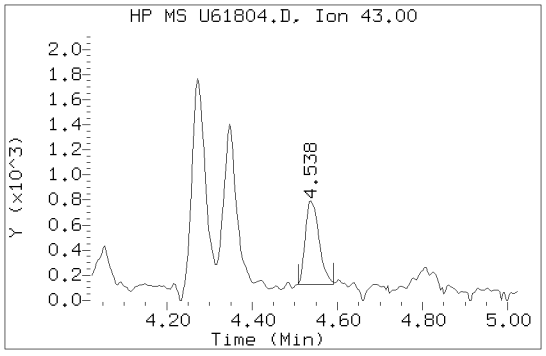
BEFORE

MASS
43
AREA
1487
HEIGHT
664
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
43
AREA
1487
HEIGHT
664
26-Jun-2024
12:29
RUCHA
PATEL



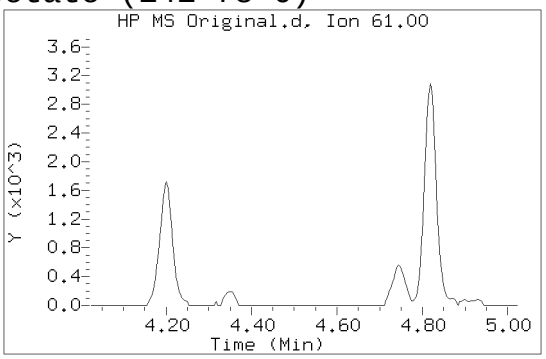
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61804.D
Inj Date : 18-JUN-2024 12:16
InstruID : VOA9.i
LabSampID : VSTD001

Ethyl Acetate (141-78-6)

Reason Code:

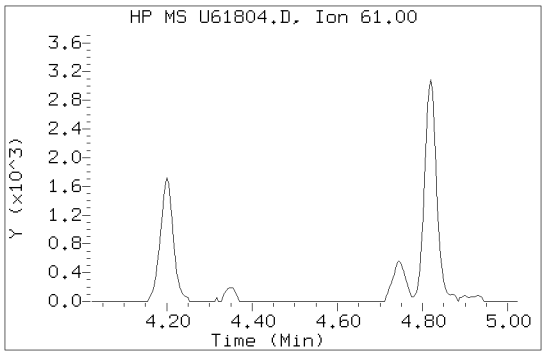
BEFORE

MASS
61
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



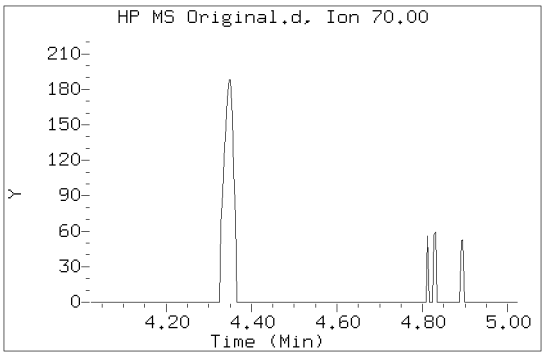
AFTER

MASS
61
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



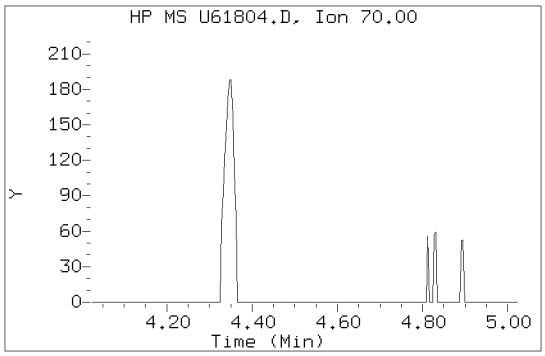
BEFORE

MASS
70
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
70
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL

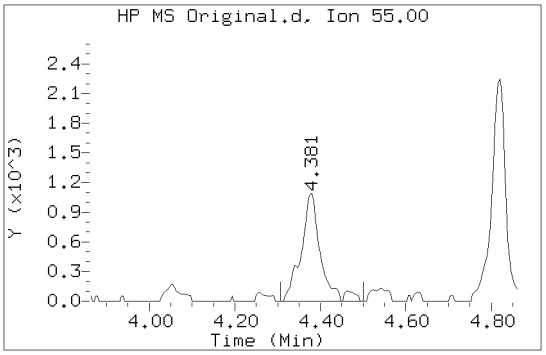


Methyl Acrylate (96-33-3)

Reason Code:

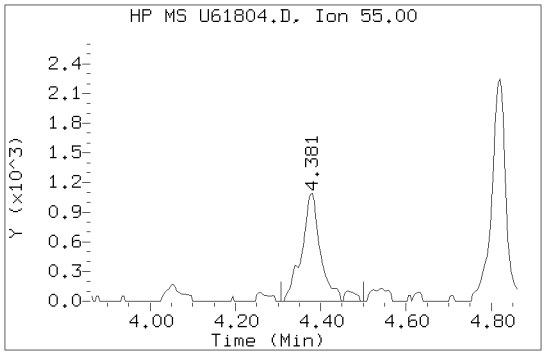
BEFORE

MASS
55
AREA
3553
HEIGHT
1092
26-Jun-2024
12:29
RUCHA
PATEL



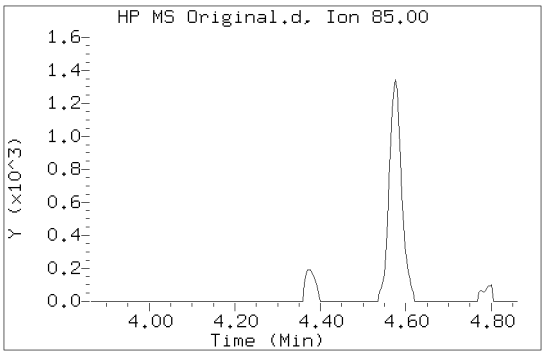
AFTER

MASS
55
AREA
3553
HEIGHT
1092
26-Jun-2024
12:29
RUCHA
PATEL



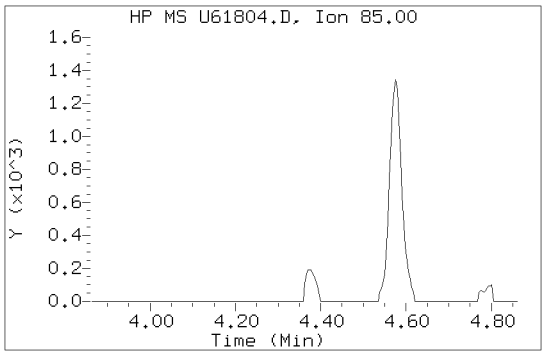
BEFORE

MASS
85
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
85
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



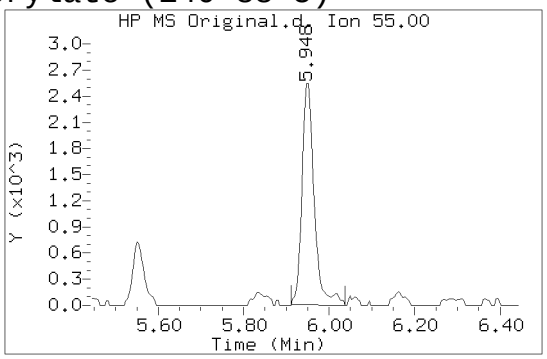
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61804.D
Inj Date : 18-JUN-2024 12:16
InstruID : VOA9.i
LabSampID : VSTD001

Ethyl Acrylate (140-88-5)

Reason Code:

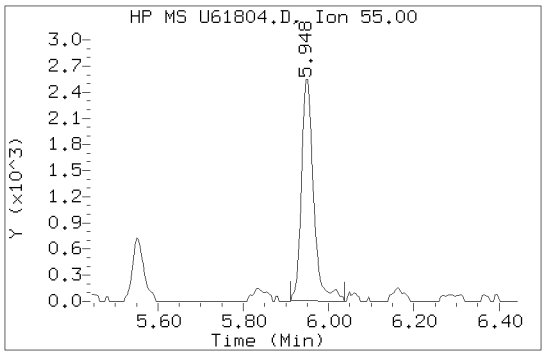
BEFORE

MASS
55
AREA
5120
HEIGHT
2538
26-Jun-2024
12:29
RUCHA
PATEL



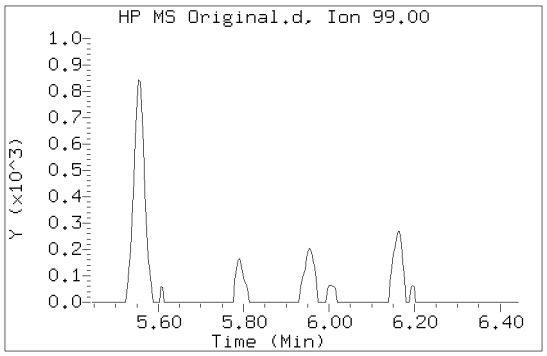
AFTER

MASS
55
AREA
5120
HEIGHT
2538
26-Jun-2024
12:29
RUCHA
PATEL



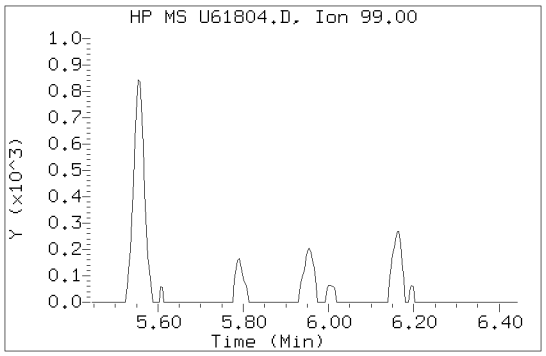
BEFORE

MASS
99
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
99
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL

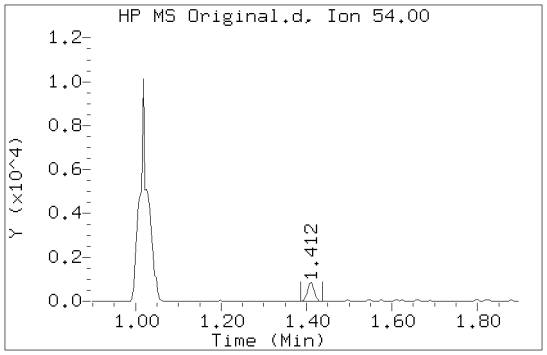


1,3-Butadiene (106-99-0)

Reason Code:

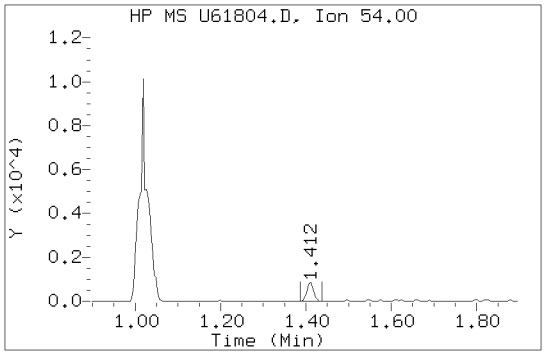
BEFORE

MASS
54
AREA
943
HEIGHT
837
26-Jun-2024
12:29
RUCHA
PATEL



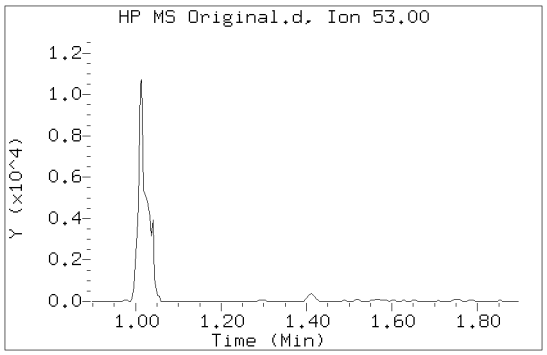
AFTER

MASS
54
AREA
943
HEIGHT
837
26-Jun-2024
12:29
RUCHA
PATEL



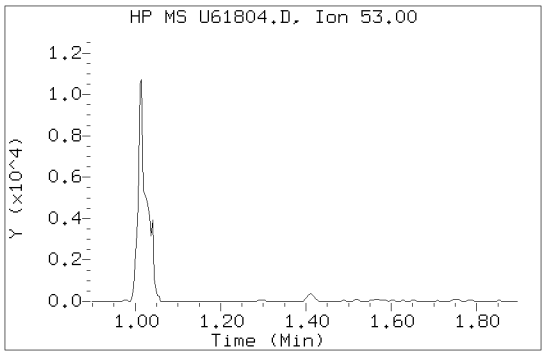
BEFORE

MASS
53
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
53
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



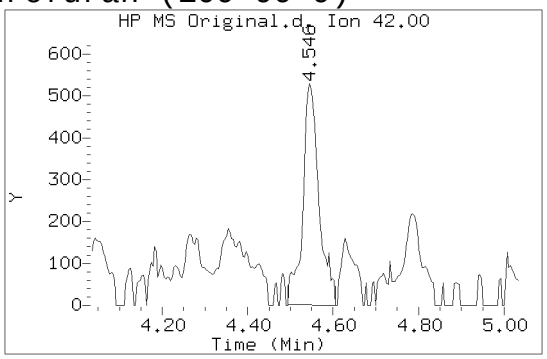
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61804.D
Inj Date : 18-JUN-2024 12:16
InstruID : VOA9.i
LabSampID : VSTD001

Tetrahydrofuran (109-99-9)

Reason Code:

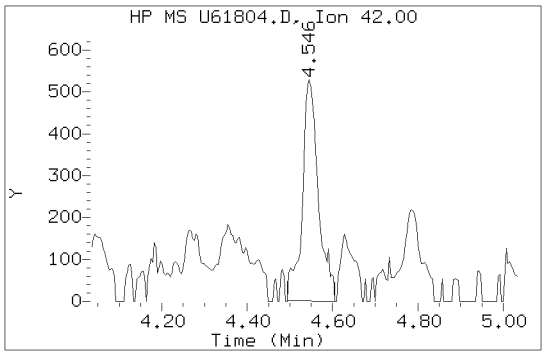
BEFORE

MASS
42
AREA
1401
HEIGHT
527
26-Jun-2024
12:29
RUCHA
PATEL



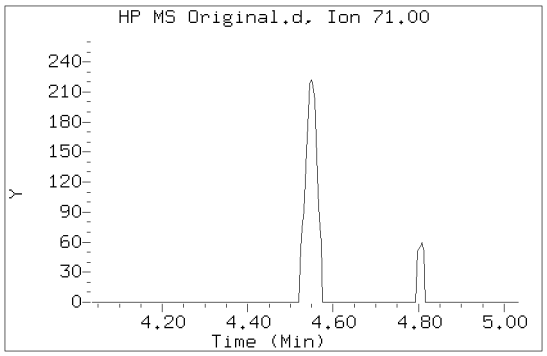
AFTER

MASS
42
AREA
1401
HEIGHT
527
26-Jun-2024
12:29
RUCHA
PATEL



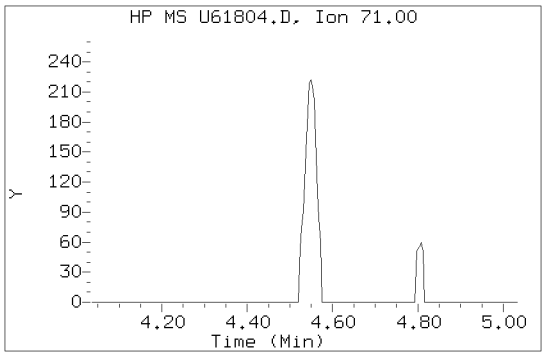
BEFORE

MASS
71
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
71
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL

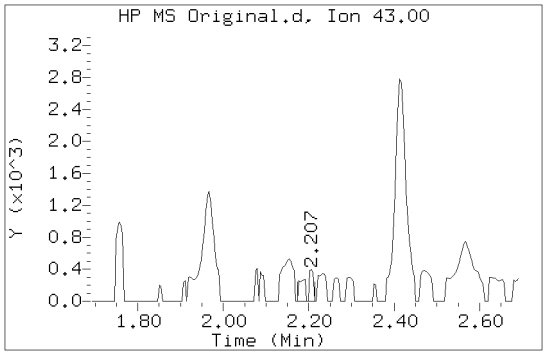


Propylene oxide ()

Reason Code:

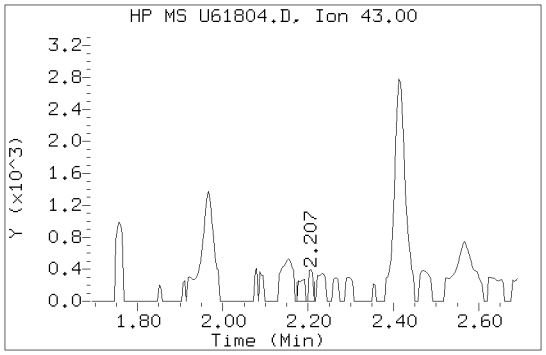
BEFORE

MASS
43
AREA
548
HEIGHT
397
26-Jun-2024
12:29
RUCHA
PATEL



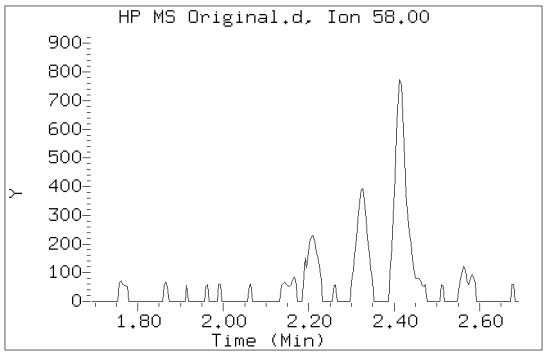
AFTER

MASS
43
AREA
548
HEIGHT
397
26-Jun-2024
12:29
RUCHA
PATEL



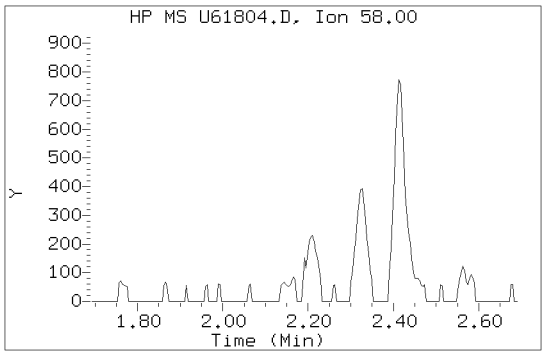
BEFORE

MASS
58
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
58
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



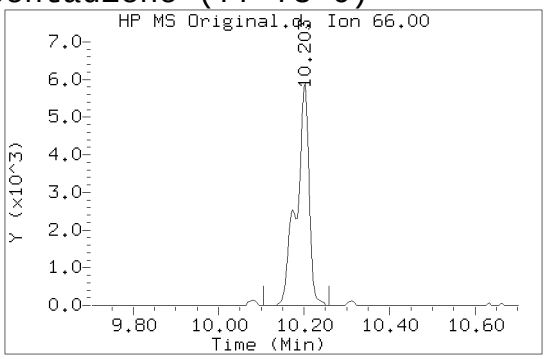
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61804.D
Inj Date : 18-JUN-2024 12:16
InstruID : VOA9.i
LabSampID : VSTD001

Dicyclopentadiene (77-73-6)

Reason Code:

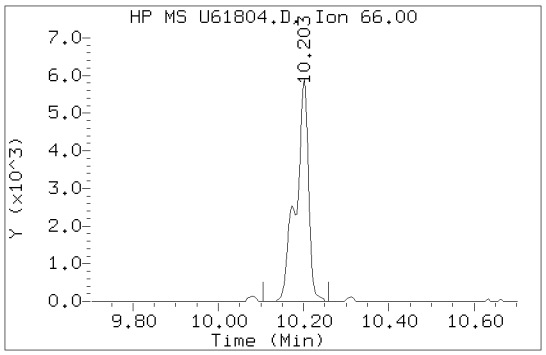
BEFORE

MASS
66
AREA
12471
HEIGHT
5890
26-Jun-2024
12:29
RUCHA
PATEL



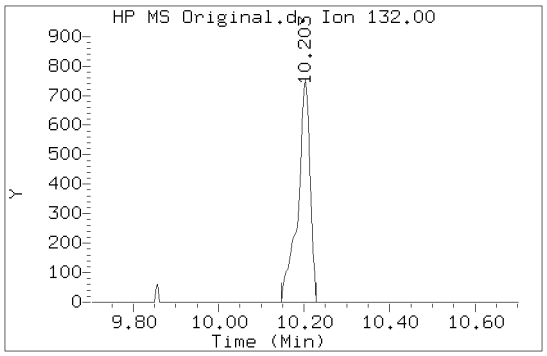
AFTER

MASS
66
AREA
12471
HEIGHT
5890
26-Jun-2024
12:29
RUCHA
PATEL



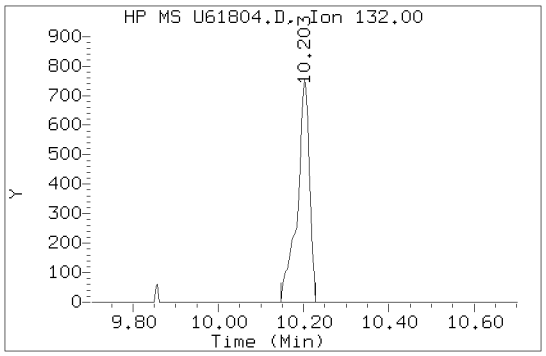
BEFORE

MASS
132
AREA
1527
HEIGHT
753
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
132
AREA
1527
HEIGHT
753
26-Jun-2024
12:29
RUCHA
PATEL

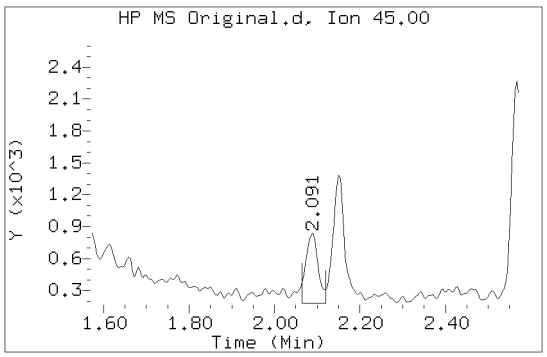


Ethanol (64-17-5)

Reason Code:

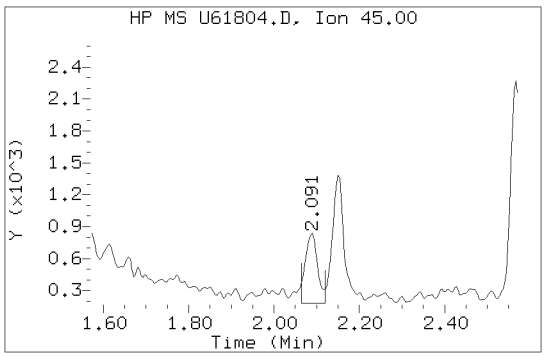
BEFORE

MASS
45
AREA
1355
HEIGHT
656
26-Jun-2024
12:29
RUCHA
PATEL



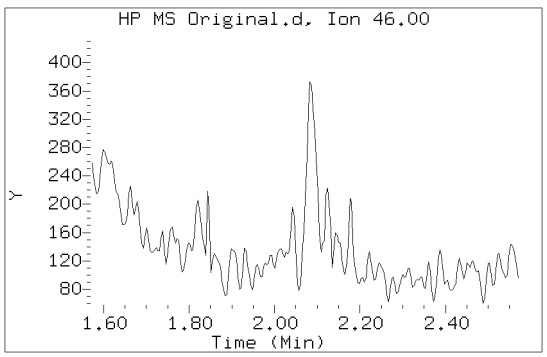
AFTER

MASS
45
AREA
1355
HEIGHT
656
26-Jun-2024
12:29
RUCHA
PATEL



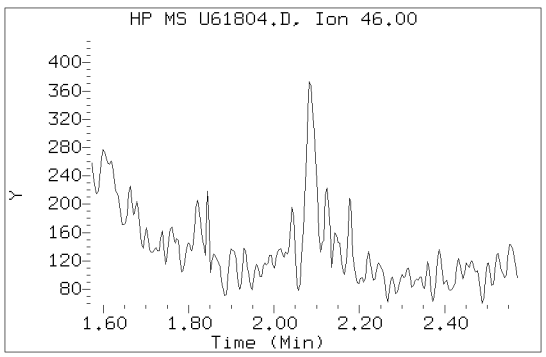
BEFORE

MASS
46
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
46
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



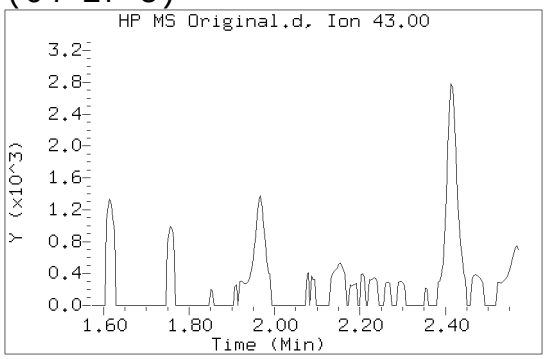
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61804.D
Inj Date : 18-JUN-2024 12:16
InstruID : VOA9.i
LabSampID : VSTD001

Ethanol (64-17-5)

Reason Code:

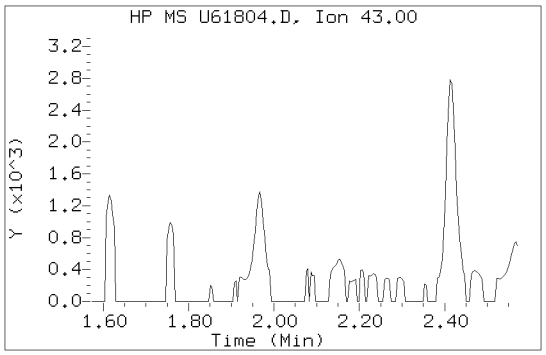
BEFORE

MASS
43
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
43
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL

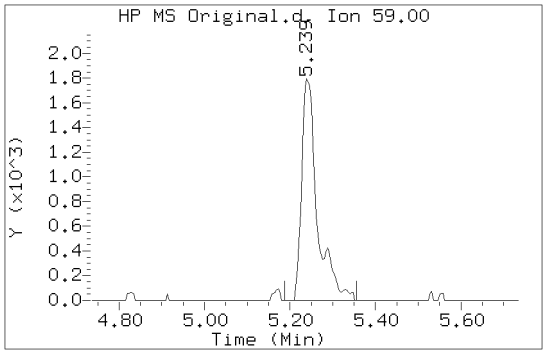


tert-Butyl formate (762-75-4)

Reason Code:

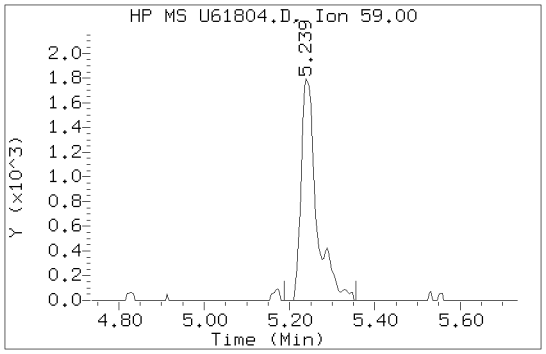
BEFORE

MASS
59
AREA
4610
HEIGHT
1795
26-Jun-2024
12:29
RUCHA
PATEL



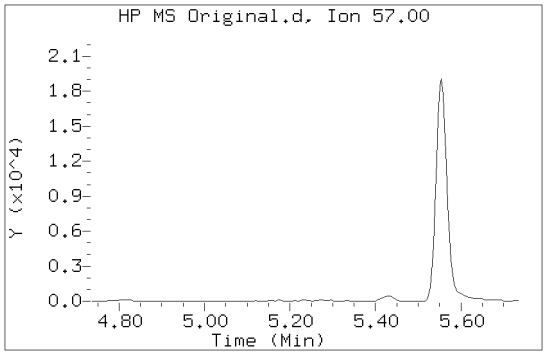
AFTER

MASS
59
AREA
4610
HEIGHT
1795
26-Jun-2024
12:29
RUCHA
PATEL



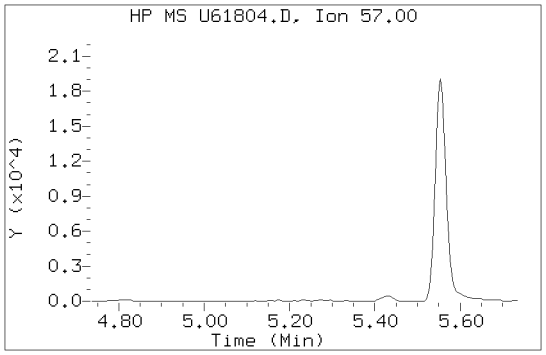
BEFORE

MASS
57
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



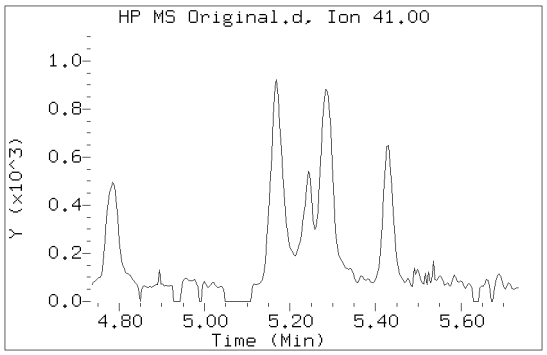
AFTER

MASS
57
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



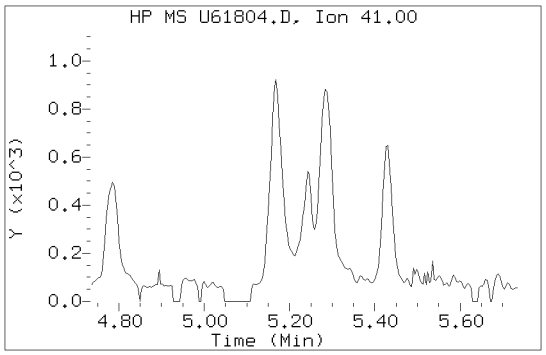
BEFORE

MASS
41
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
41
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



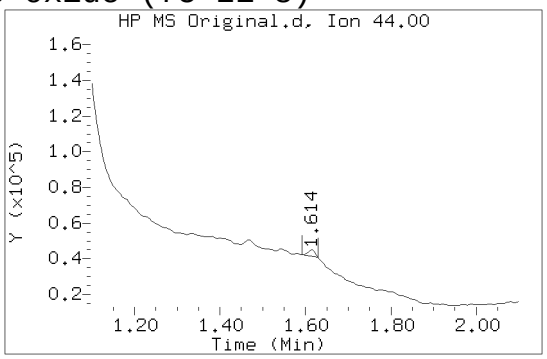
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61804.D
Inj Date : 18-JUN-2024 12:16
InstruID : VOA9.i
LabSampID : VSTD001

Ethylene oxide (75-21-8)

Reason Code:

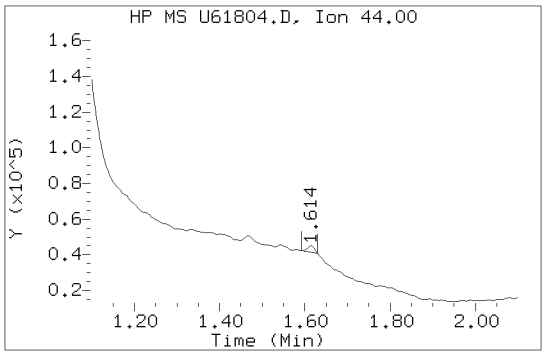
BEFORE

MASS
44
AREA
4269
HEIGHT
3658
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
44
AREA
4269
HEIGHT
3658
26-Jun-2024
12:29
RUCHA
PATEL

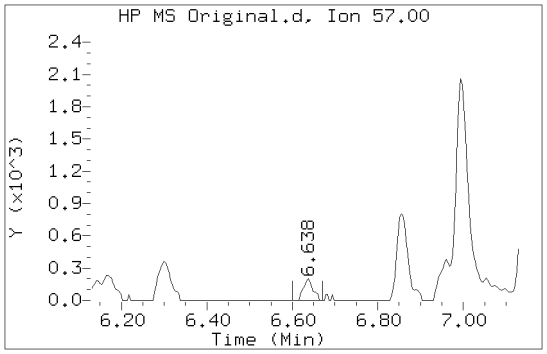


Epichlorohydrin (106-89-8)

Reason Code:

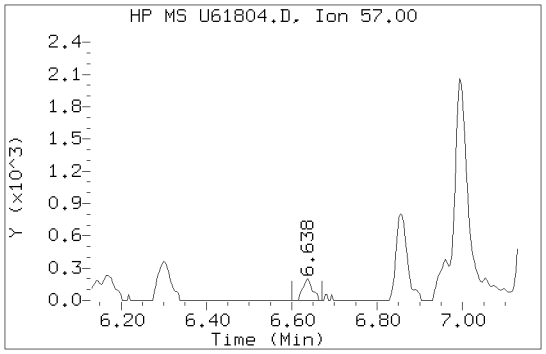
BEFORE

MASS
57
AREA
316
HEIGHT
200
26-Jun-2024
12:29
RUCHA
PATEL



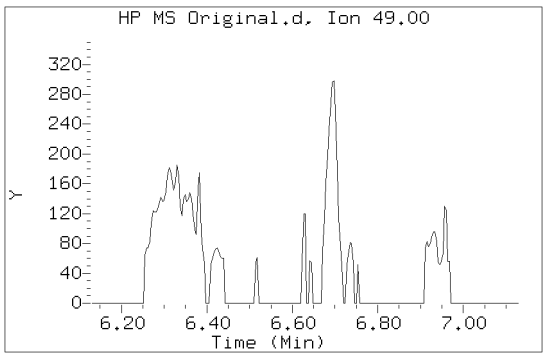
AFTER

MASS
57
AREA
316
HEIGHT
200
26-Jun-2024
12:29
RUCHA
PATEL



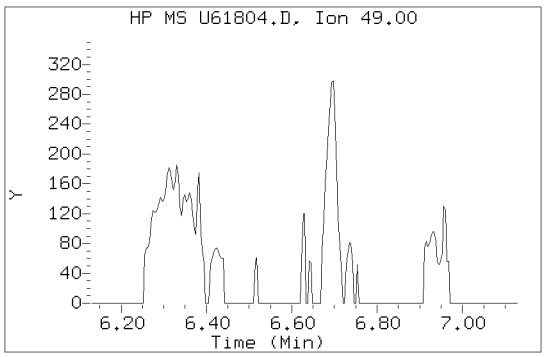
BEFORE

MASS
49
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
49
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL

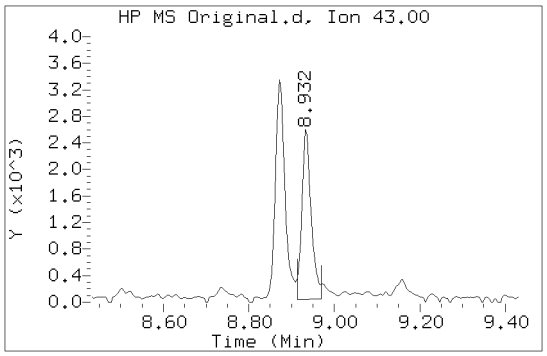


n-Amyl acetate (628-63-7)

Reason Code:

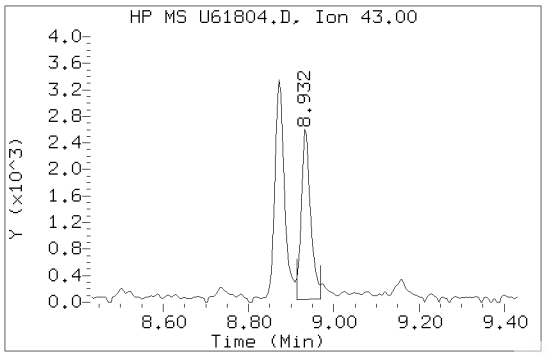
BEFORE

MASS
43
AREA
4009
HEIGHT
2558
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
43
AREA
4009
HEIGHT
2558
26-Jun-2024
12:29
RUCHA
PATEL



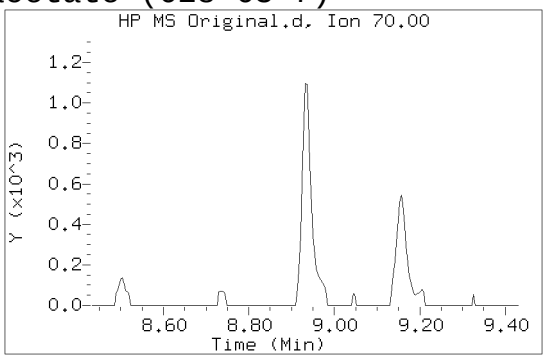
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61804.D
Inj Date : 18-JUN-2024 12:16
InstruID : VOA9.i
LabSampID : VSTD001

n-Amyl acetate (628-63-7)

Reason Code:

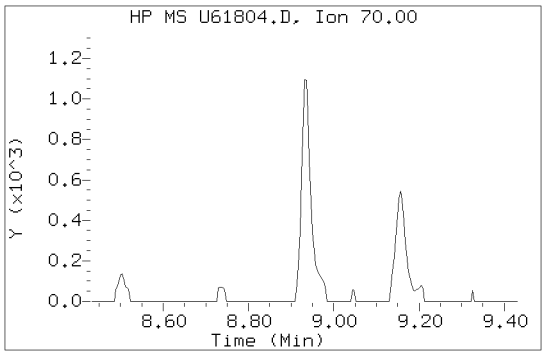
BEFORE

MASS
70
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



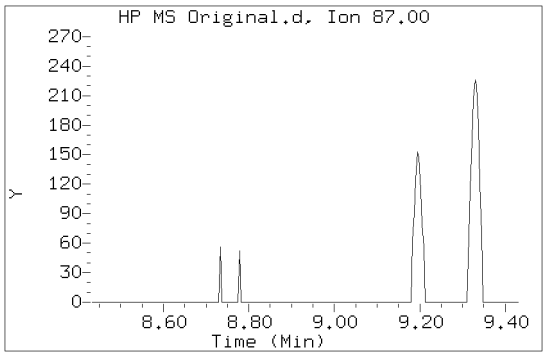
AFTER

MASS
70
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



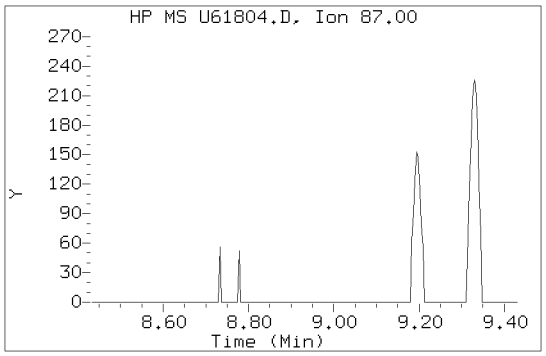
BEFORE

MASS
87
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
87
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL

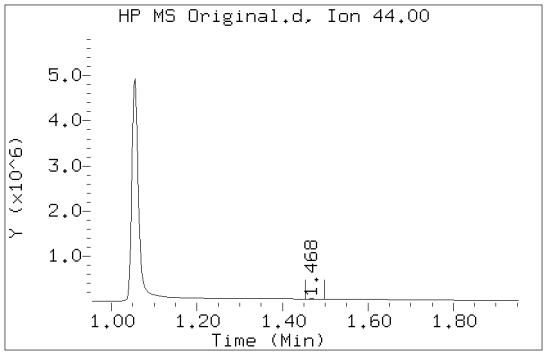


Acetaldehyde (75-07-0)

Reason Code:

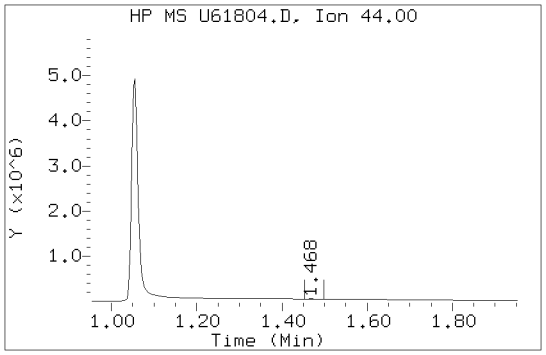
BEFORE

MASS
44
AREA
3406
HEIGHT
2951
26-Jun-2024
12:29
RUCHA
PATEL



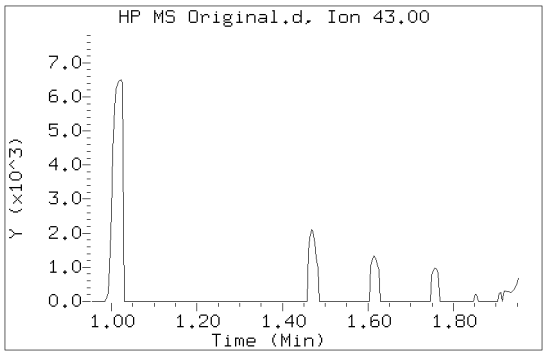
AFTER

MASS
44
AREA
3406
HEIGHT
2951
26-Jun-2024
12:29
RUCHA
PATEL



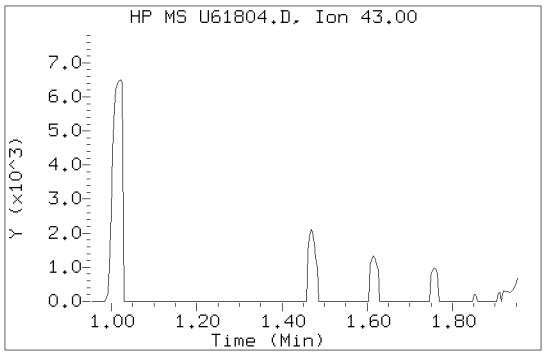
BEFORE

MASS
43
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
43
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



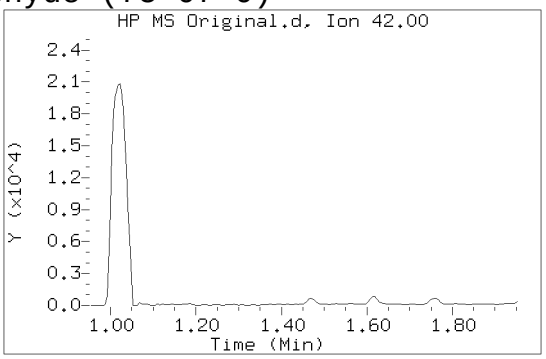
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61804.D
Inj Date : 18-JUN-2024 12:16
InstruID : VOA9.i
LabSampID : VSTD001

Acetaldehyde (75-07-0)

Reason Code:

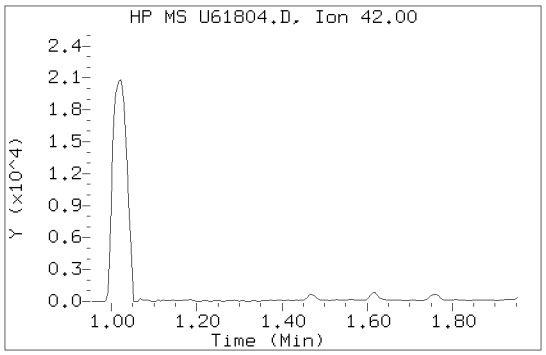
BEFORE

MASS
42
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
42
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL

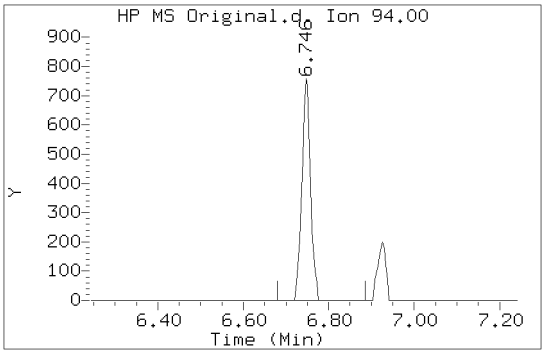


Dimethyl Disulfide (624-92-0)

Reason Code:

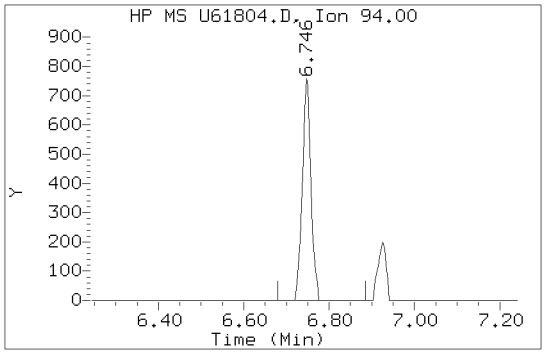
BEFORE

MASS
94
AREA
1094
HEIGHT
758
26-Jun-2024
12:29
RUCHA
PATEL



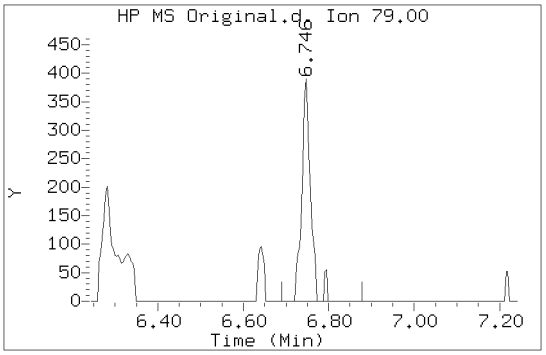
AFTER

MASS
94
AREA
1094
HEIGHT
758
26-Jun-2024
12:29
RUCHA
PATEL



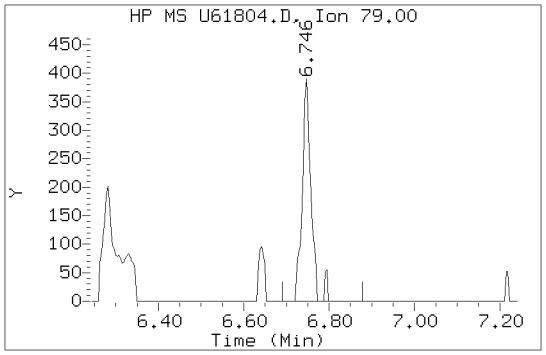
BEFORE

MASS
79
AREA
574
HEIGHT
390
26-Jun-2024
12:29
RUCHA
PATEL



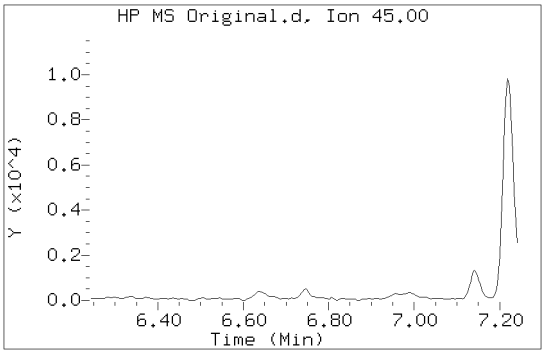
AFTER

MASS
79
AREA
574
HEIGHT
390
26-Jun-2024
12:29
RUCHA
PATEL



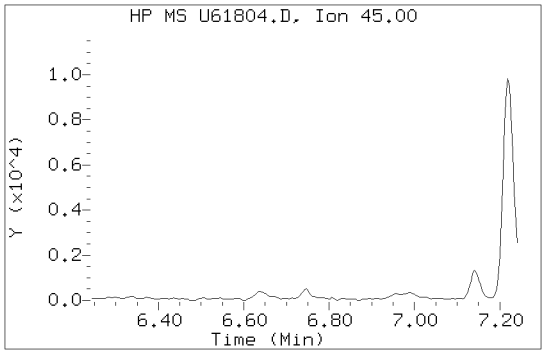
BEFORE

MASS
45
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
45
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL

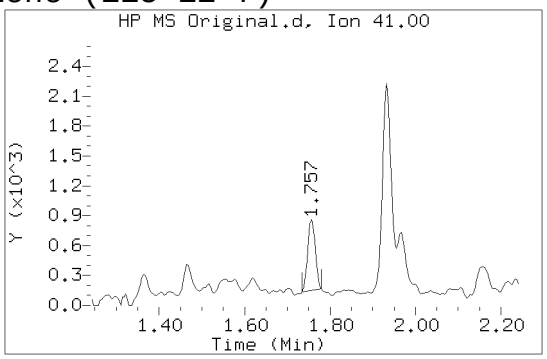


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61804.D
Inj Date : 18-JUN-2024 12:16
InstruID : VOA9.i
LabSampID : VSTD001

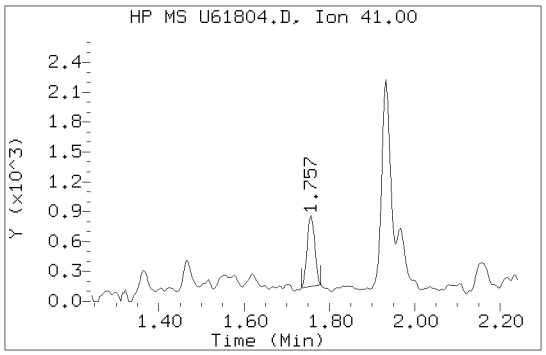
Isobutylene (115-11-7)

Reason Code:

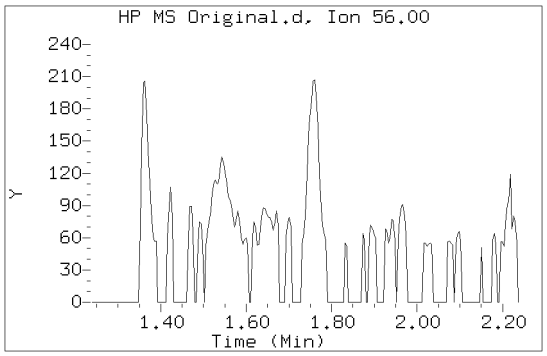
BEFORE
MASS
41
AREA
895
HEIGHT
707
26-Jun-2024
12:29
RUCHA
PATEL



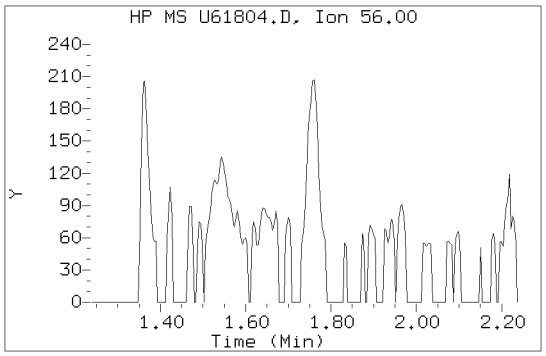
AFTER
MASS
41
AREA
895
HEIGHT
707
26-Jun-2024
12:29
RUCHA
PATEL



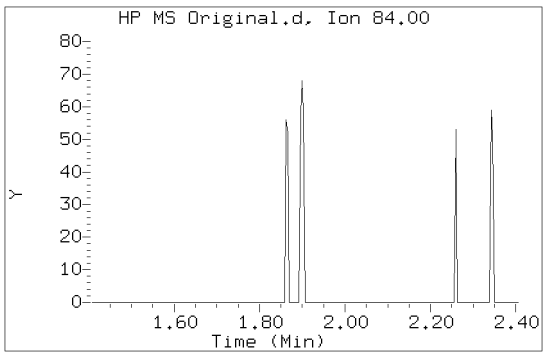
BEFORE
MASS
56
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



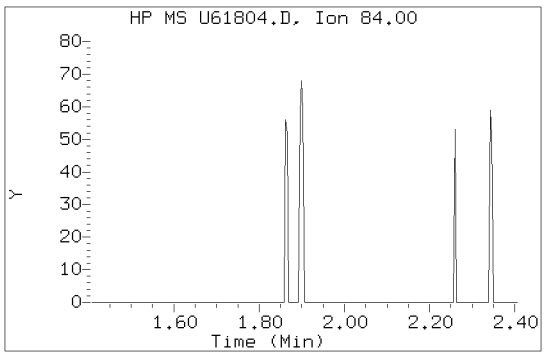
AFTER
MASS
56
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



BEFORE
MASS
84
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



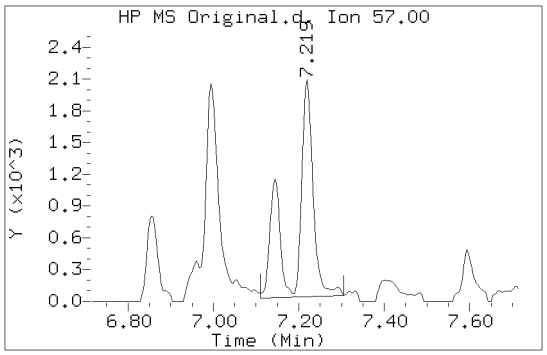
AFTER
MASS
84
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



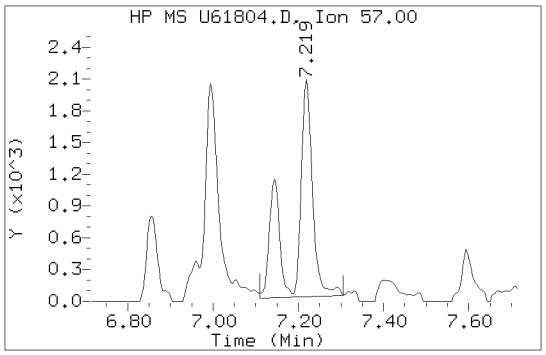
sec-Butyl Ether (6863-58-7)

Reason Code:

BEFORE
MASS
57
AREA
5760
HEIGHT
2050
26-Jun-2024
12:29
RUCHA
PATEL



AFTER
MASS
57
AREA
5760
HEIGHT
2050
26-Jun-2024
12:29
RUCHA
PATEL



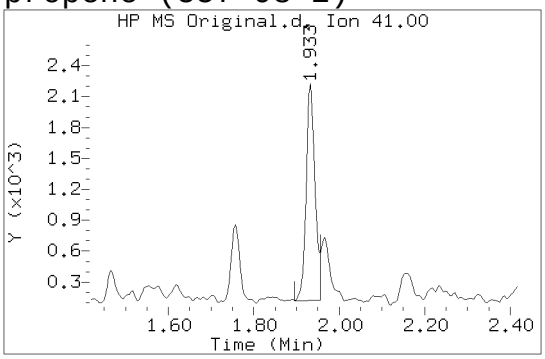
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61804.D
Inj Date : 18-JUN-2024 12:16
InstruID : VOA9.i
LabSampID : VSTD001

2-Chloropropene (557-98-2)

Reason Code:

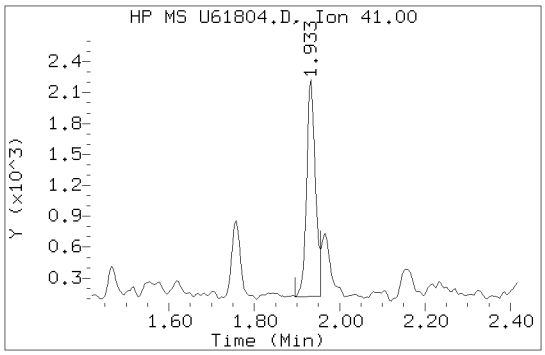
BEFORE

MASS
41
AREA
3109
HEIGHT
2104
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
41
AREA
3109
HEIGHT
2104
26-Jun-2024
12:29
RUCHA
PATEL

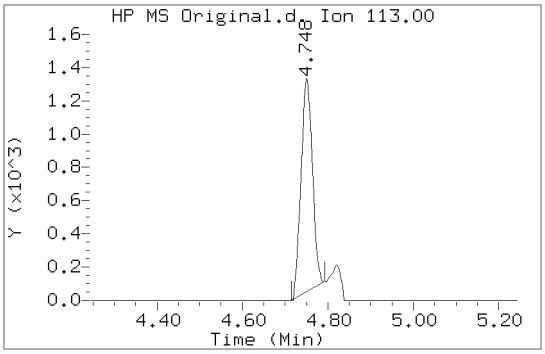


Dibromofluoromethane (1868-53-7)

Reason Code:

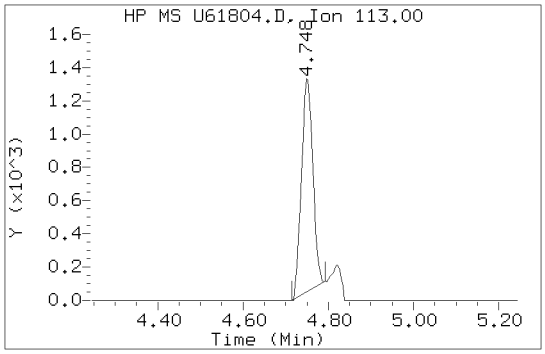
BEFORE

MASS
113
AREA
2421
HEIGHT
1282
26-Jun-2024
12:29
RUCHA
PATEL



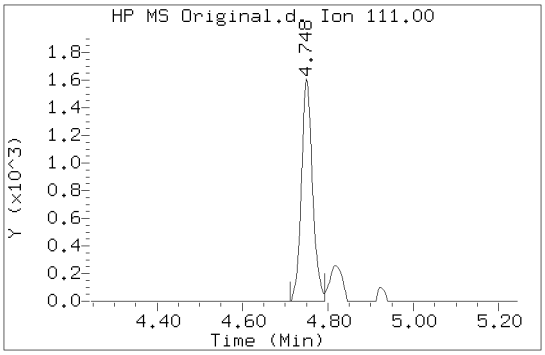
AFTER

MASS
113
AREA
2421
HEIGHT
1282
26-Jun-2024
12:29
RUCHA
PATEL



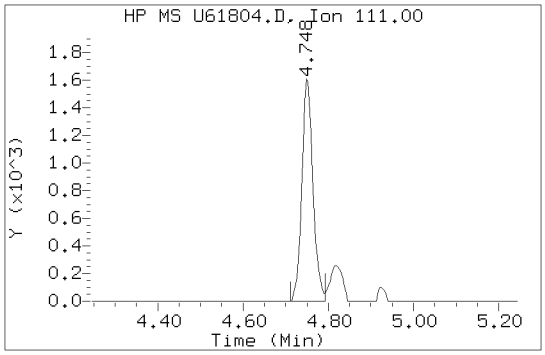
BEFORE

MASS
111
AREA
2979
HEIGHT
1609
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
111
AREA
2979
HEIGHT
1609
26-Jun-2024
12:29
RUCHA
PATEL

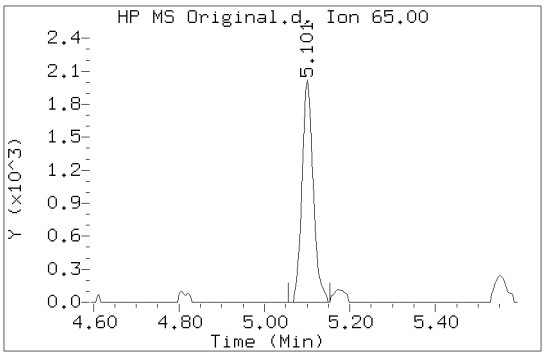


1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

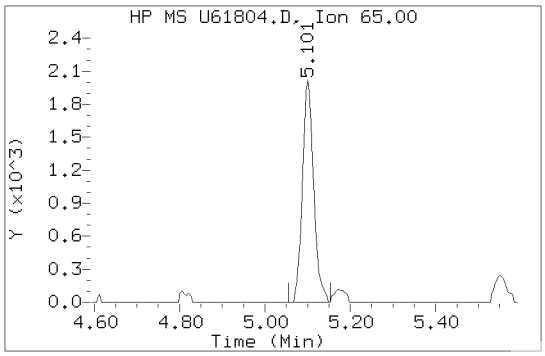
BEFORE

MASS
65
AREA
3717
HEIGHT
2021
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
65
AREA
3717
HEIGHT
2021
26-Jun-2024
12:29
RUCHA
PATEL



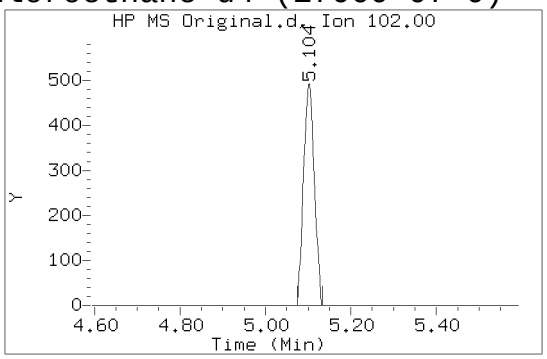
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61804.D
Inj Date : 18-JUN-2024 12:16
InstruID : VOA9.i
LabSampID : VSTD001

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

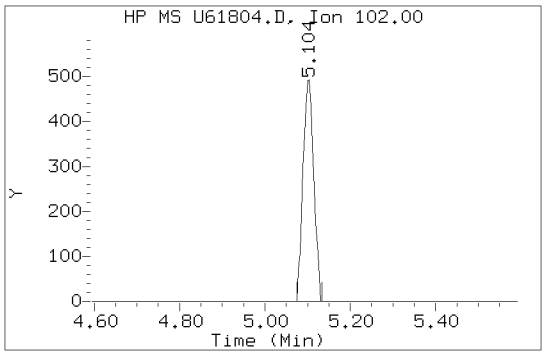
BEFORE

MASS
102
AREA
871
HEIGHT
493
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
102
AREA
871
HEIGHT
493
26-Jun-2024
12:29
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61805.D Page 1
Report Date: 26-Jun-2024 12:30

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61805.D
Lab Smp Id: VSTD002 Client Smp ID: VSTD002
Inj Date : 18-JUN-2024 12:38
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD002;VSTD002;1;4
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240618.b\8260C.m
Meth Date : 26-Jun-2024 12:30 VOA9.i Quant Type: ISTD
Cal Date : 18-JUN-2024 12:16 Cal File: U61804.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.815	4.815	(1.000)	267828	50.0000	
2 Dichlorodifluoromethane	85	1.168	1.168	(0.243)	3706	2.00000	2.85(M)
3 Chloromethane	50	1.299	1.299	(0.270)	18533	2.00000	3.06
4 Propionitrile	54	4.339	4.339	(0.901)	8940	20.0000	28.49(a)
5 Vinyl Chloride	62	1.382	1.382	(0.287)	6085	2.00000	2.72(M)
6 Bromomethane	94	1.621	1.621	(0.337)	3526	2.00000	2.82
7 Chloroethane	64	1.704	1.704	(0.354)	4390	2.00000	2.84
8 Trichlorofluoromethane	101	1.899	1.899	(0.394)	6355	2.00000	2.56
9 Acrolein	56	2.266	2.266	(0.471)	1286	4.00000	9.35(a)
10 Acetone	43	2.409	2.409	(0.500)	8325	4.00000	7.51
11 1,1-Dichloroethene	96	2.334	2.334	(0.485)	4388	2.00000	2.75
12 Isobutyl Alcohol	43	5.284	5.284	(1.097)	16133	40.0000	70.67(a)
13 Acetonitrile	39	2.671	2.671	(0.555)	5971	20.0000	23.91(a)
14 Allyl Chloride	41	2.675	2.675	(0.556)	15546	2.00000	2.53(a)
15 Iodomethane	142	2.465	2.465	(0.512)	1260	4.00000	6.10(T)
16 Acrylonitrile	53	3.065	3.065	(0.636)	4824	4.00000	5.80
17 Methylene Chloride	84	2.795	2.795	(0.580)	8956	2.00000	2.98
18 Methyl tert-butyl ether	73	3.080	3.080	(0.640)	15201	2.00000	2.63
19 Carbon Disulfide	76	2.521	2.521	(0.524)	23502	4.00000	5.78
20 trans-1,2-Dichloroethene	96	3.061	3.061	(0.636)	5361	2.00000	2.83

21 Vinyl Acetate	43	4.343	4.343 (0.902)	5776	4.00000	6.10(M)
22 1,1-Dichloroethane	63	3.511	3.511 (0.729)	10452	2.00000	2.87

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.608	3.608	(0.749)	7306	2.00000	2.69(a)
	24 2-Butanone	43	4.264	4.264	(0.886)	7824	4.00000	7.15
	25 Methacrylonitrile	41	4.500	4.500	(0.935)	3373	2.00000	2.96(a)
	26 2,2-Dichloropropane	77	4.182	4.182	(0.868)	6270	2.00000	2.71
	27 cis-1,2-Dichloroethene	96	4.197	4.197	(0.872)	6558	2.00000	2.92
	28 Chloroform	83	4.572	4.572	(0.949)	10778	2.00000	2.98
	29 Bromochloromethane	128	4.470	4.470	(0.928)	3564	2.00000	3.11
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	5090	2.00000	2.98(M)
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.985)	6677	2.00000	2.61
	32 1,1-Dichloropropene	75	4.924	4.924	(0.887)	6689	2.00000	2.60
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	9225	2.00000	2.36
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	4809	2.00000	2.22(M)
$	35 1,2-Dichloroethane-d4	65	5.097	5.097	(1.058)	7368	2.00000	3.62(M)
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	396309	50.0000	
	37 Benzene	78	5.141	5.141	(0.926)	23617	2.00000	2.84
	38 Trichloroethene	130	5.790	5.790	(1.043)	5664	2.00000	2.72(a)
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	6656	2.00000	3.13(aM)
	40 Methyl Methacrylate	41	5.827	5.827	(1.210)	2213	2.00000	3.36(a)
	41 2-Chloroethylvinyl ether	63	6.570	6.570	(1.183)	191	4.00000	15.39(M)
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	6561	2.00000	2.75(aM)
	43 2-Nitropropane	43	6.506	6.506	(1.351)	1036	2.00000	2.37(aM)
	44 Dibromomethane	93	6.120	6.120	(1.102)	4090	2.00000	3.13(a)
	45 4-Methyl-2-Pentanone	43	6.855	6.855	(0.837)	12658	4.00000	7.04
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.204)	7474	2.00000	3.58(a)
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	365520	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	20185	2.00000	3.19(a)
	49 Ethyl Methacrylate	69	7.289	7.289	(1.312)	7249	2.00000	2.75(a)
	50 Toluene	91	6.982	6.982	(0.853)	22308	2.00000	2.75(a)
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	5590	2.00000	3.12(a)
	52 2-Hexanone	43	7.215	7.215	(0.881)	16678	4.00000	6.99
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	4985	2.00000	2.13(a)
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	10758	2.00000	3.18(a)
	55 Dibromochloromethane	129	7.691	7.691	(0.940)	4530	2.00000	3.28(a)
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	4222	2.00000	2.69(a)
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	5387	2.00000	3.14(a)
	58 1-Chlorohexane	55	8.193	8.193	(1.475)	7053	2.00000	2.65(a)
	59 Chlorobenzene	112	8.212	8.212	(1.003)	16903	2.00000	2.92(a)
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	4799	2.00000	2.69(a)
	61 Ethylbenzene	106	8.309	8.309	(1.015)	7515	2.00000	2.94(aM)
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	14842	4.00000	4.93(a)
	63 o-Xylene	106	8.748	8.748	(1.069)	7414	2.00000	2.51(aM)
	64 Styrene	104	8.763	8.763	(1.071)	13244	2.00000	2.62(a)
	66 Bromoform	173	8.920	8.920	(1.090)	2965	2.00000	3.49(Ta)
	67 Isopropylbenzene	105	9.063	9.063	(1.107)	20391	2.00000	2.63(a)
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	8607	2.00000	3.15(a)
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	9085	2.00000	3.75(a)
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	201989	50.0000	
	71 1,2,3-Trichloropropane	75	9.363	9.363	(0.920)	7993	2.00000	3.21(aM)
	72 trans-1,4-Dichloro-2-butene	53	9.378	9.378	(1.146)	1704	2.00000	3.36(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	21196	2.00000	2.41(a)
	74 Bromobenzene	156	9.321	9.321	(0.916)	7184	2.00000	2.72(a)
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	12721	2.00000	2.24(a)

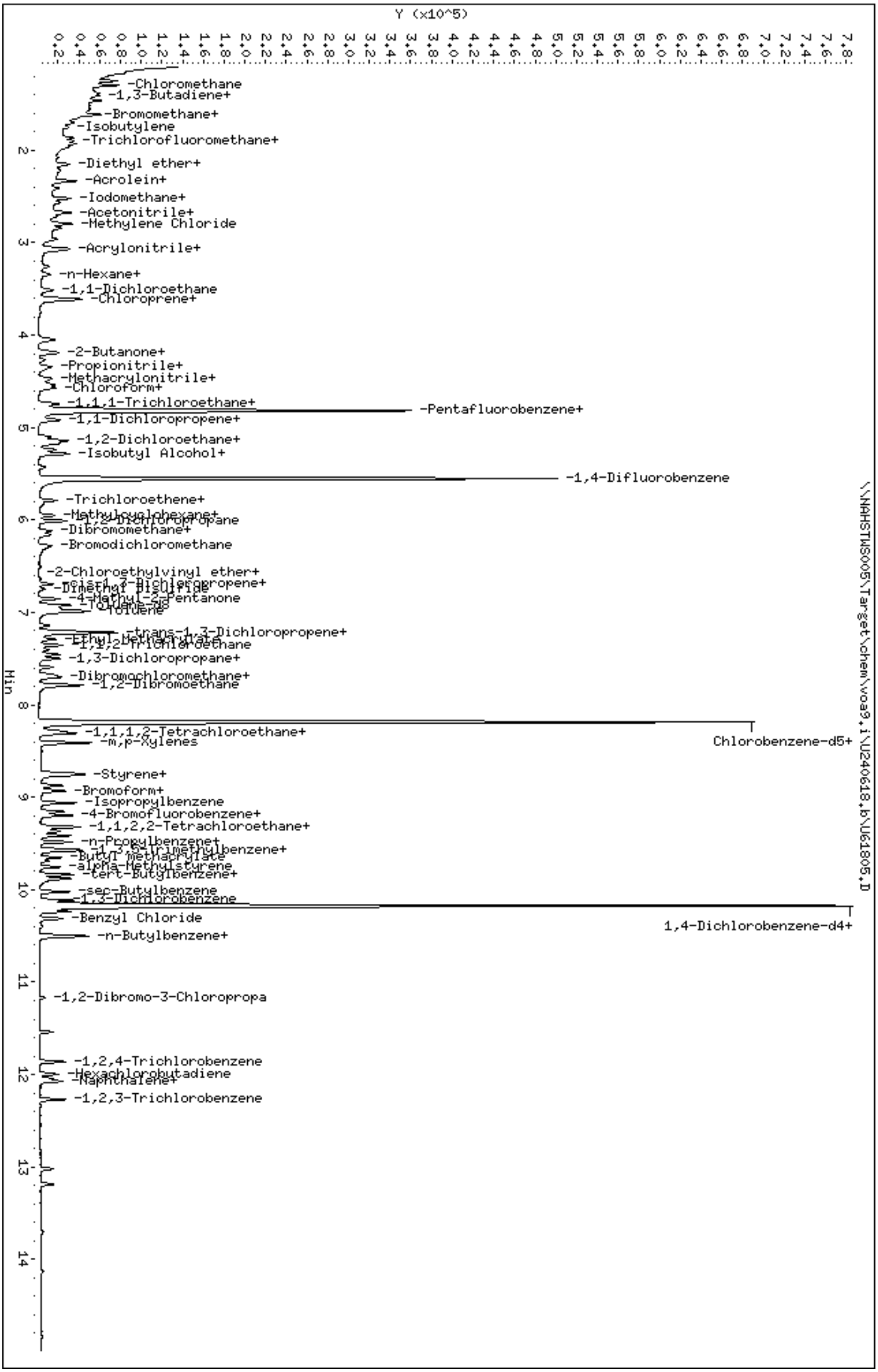
76	2-Chlorotoluene	91	9.486	9.486 (0.933)	16116	2.00000	2.60(a)
77	4-Chlorotoluene	91	9.580	9.580 (0.942)	18473	2.00000	2.75(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.839	9.839	(0.967)	14569	2.00000	2.67(a)
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	17443	2.00000	3.36(a)
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	18378	2.00000	2.55(a)
82	p-Isopropyltoluene	119	10.146	10.146	(0.997)	14757	2.00000	2.43(a)
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	13057	2.00000	2.77(a)
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	13833	2.00000	2.79(a)
86	Benzyl Chloride	91	10.315	10.315	(1.260)	15276	2.00000	3.62(a)
87	n-Butylbenzene	91	10.495	10.495	(1.032)	13874	2.00000	2.50(a)
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	12518	2.00000	2.74(a)
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	1026	2.00000	3.63(a)
90	1,2,4-Trichlorobenzene	180	11.863	11.863	(1.166)	8307	2.00000	2.88(a)
91	Hexachlorobutadiene	225	11.998	11.998	(1.179)	3114	2.00000	2.56(a)
92	Naphthalene	128	12.073	12.073	(1.187)	15244	2.00000	3.22(a)
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	7386	2.00000	2.87(a)
146	Methyl acetate	43	2.712	2.712	(0.563)	7302	2.00000	4.01(a)
138	Freon TF	101	2.334	2.334	(0.485)	3777	2.00000	2.57(a)
141	Cyclohexane	56	4.812	4.812	(0.999)	9795	2.00000	2.20(aM)
142	Tetrahydrofuran	42	4.545	4.545	(0.944)	2268	4.00000	4.16(a)
147	Methylcyclohexane	55	5.947	5.947	(1.071)	10028	2.00000	2.30(a)
135	1,4-Dioxane	88	6.169	6.169	(1.281)	2395	40.0000	60.86
132	n-Butanol	56	5.827	5.827	(1.210)	3143	40.0000	65.54(a)
136	n-Hexane	57	3.342	3.342	(0.694)	4194	2.00000	2.38(a)
139	Diethyl ether	59	2.146	2.146	(0.446)	4591	2.00000	2.50(a)
148	Tert-butyl alcohol	59	2.967	2.967	(0.616)	12016	40.0000	59.46
149	Isopropyl alcohol	45	2.562	2.562	(0.532)	8231	40.0000	55.89(T)
156	Diisopropyl ether	45	3.620	3.620	(0.752)	17751	2.00000	2.31(Ta)
162	Butyl acrylate	55	8.733	8.733	(1.067)	9232	2.00000	2.64(a)
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	20948	2.00000	2.10(a)
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	14039	2.00000	3.19(a)
167	Ethanol	45	2.083	2.083	(0.433)	2248	40.0000	62.89
172	tert-Butyl formate	59	5.239	5.239	(1.088)	10071	4.00000	6.21(M)
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.300)	43056	40.0000	60.51
140	1,3-Butadiene	54	1.404	1.404	(0.292)	2329	2.00000	2.56(Ta)
182	Epichlorohydrin	57	6.633	6.633	(1.194)	606	8.00000	13.86(M)
M 94	1,2-Dichloroethylene (total)	96				11919	4.00000	(a)
130	Ethyl Acetate	43	4.534	4.534	(0.942)	3474	2.00000	3.64(aM)
131	Methyl Acrylate	55	4.373	4.373	(0.908)	7257	2.00000	2.93(a)
189	n-Butyl acetate	43	7.706	7.706	(0.941)	9190	2.00000	3.30(a)
134	Cyclohexanone	55	9.153	9.153	(0.900)	9692	40.0000	54.10(a)
185	Isoprene	39	2.158	2.158	(0.448)	1003	2.00000	2.29(a)
188	Isopropyl acetate	43	5.284	5.284	(0.951)	16412	2.00000	3.08(a)
150	Allyl alcohol	57	3.342	3.342	(0.694)	4194	40.0000	47.63
194	Acetaldehyde	44	1.460	1.460	(0.303)	7182	8.00000	14.42(M)
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	2258	2.00000	2.67(a)
202	Isobutylene	41	1.749	1.749	(0.363)	1433	2.00000	1.83(aM)
133	Ethyl Acrylate	55	5.947	5.947	(1.235)	10028	2.00000	2.31(a)
163	Butyl methacrylate	41	9.651	9.651	(0.949)	5913	2.00000	1.62(a)
159	Propylene oxide	43	2.203	2.203	(0.457)	1125	4.00000	6.66
178	Ethylene oxide	44	1.610	1.610	(0.334)	12681	4.00000	7.66(M)
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	5117	2.00000	3.00(a)
204	Tetrahydrothiophene	60	7.672	7.672	(0.937)	5611	2.00000	2.58(aA)
205	sec-Butyl Ether	57	7.218	7.218	(0.882)	11668	2.00000	2.28(aAM)

187 n-Amyl acetate	43	8.931	8.931 (1.091)	10604	2.00000	3.19(aM)
206 2-Chloropropene	41	1.929	1.929 (0.401)	5233	2.00000	1.93(aAM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\woa9,i\U240618,b\U61805,D
Date : 18-JUN-2024 12:38
Client ID: VSTD002
Sample Info: VSTD002;VSTD002;1;4
Purge Volume: 5.0
Column phase: DB624

Instrument: WOA9,i
Operator: TS
Column diameter: 0.18

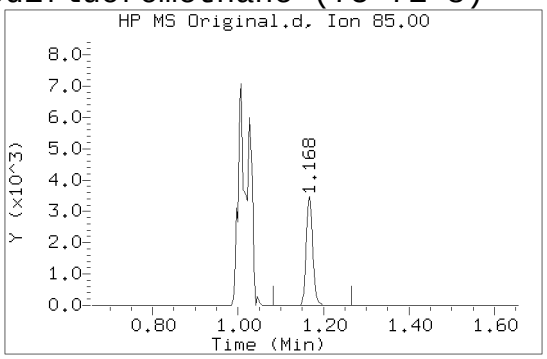
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61805.D
Inj Date : 18-JUN-2024 12:38
InstruID : VOA9.i
LabSampID : VSTD002

Dichlorodifluoromethane (75-71-8)

Reason Code:

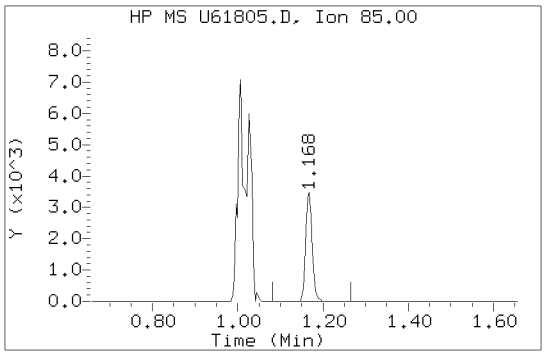
BEFORE

MASS
85
AREA
3706
HEIGHT
3485
26-Jun-2024
12:30
RUCHA
PATEL



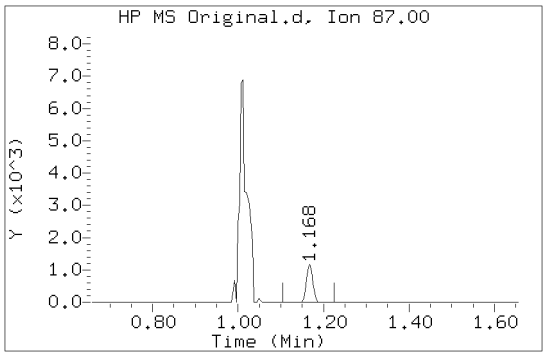
AFTER

MASS
85
AREA
3706
HEIGHT
3485
26-Jun-2024
12:30
RUCHA
PATEL



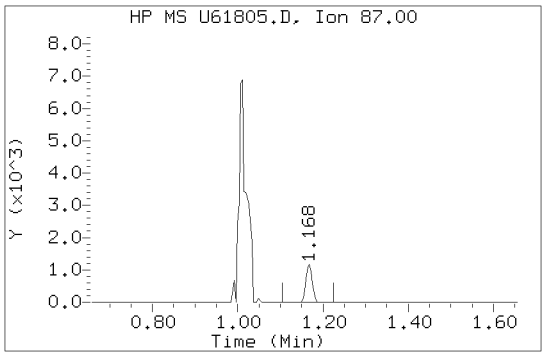
BEFORE

MASS
87
AREA
1209
HEIGHT
1170
26-Jun-2024
12:30
RUCHA
PATEL



AFTER

MASS
87
AREA
1209
HEIGHT
1170
26-Jun-2024
12:30
RUCHA
PATEL

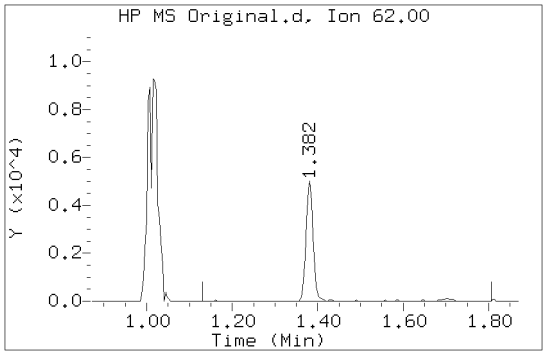


Vinyl Chloride (75-01-4)

Reason Code:

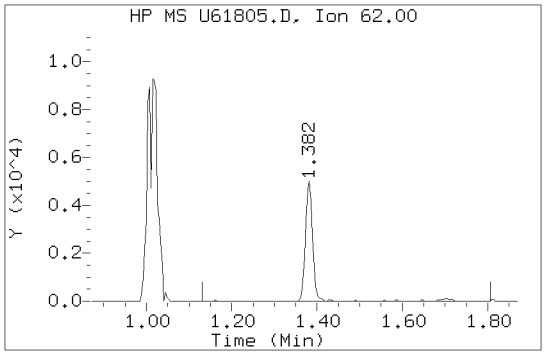
BEFORE

MASS
62
AREA
6085
HEIGHT
5010
26-Jun-2024
12:30
RUCHA
PATEL



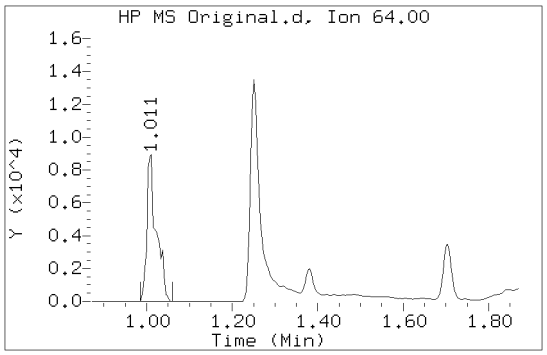
AFTER

MASS
62
AREA
6085
HEIGHT
5010
26-Jun-2024
12:30
RUCHA
PATEL



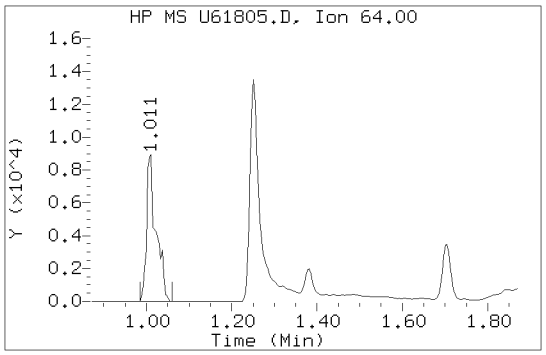
BEFORE

MASS
64
AREA
13741
HEIGHT
8961
26-Jun-2024
12:30
RUCHA
PATEL



AFTER

MASS
64
AREA
13741
HEIGHT
8961
26-Jun-2024
12:30
RUCHA
PATEL



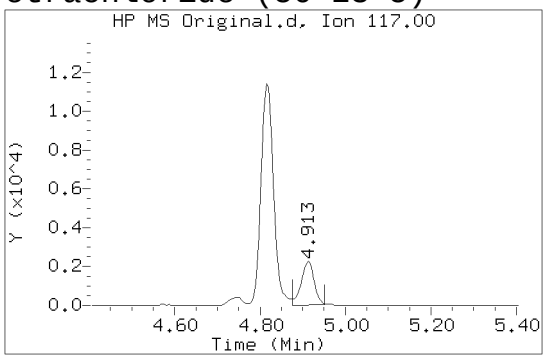
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61805.D
Inj Date : 18-JUN-2024 12:38
InstruID : VOA9.i
LabSampID : VSTD002

Carbon Tetrachloride (56-23-5)

Reason Code:

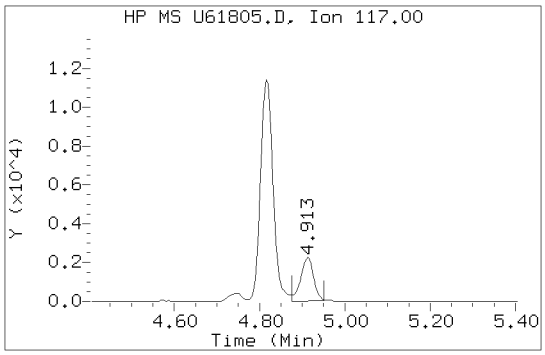
BEFORE

MASS
117
AREA
4809
HEIGHT
2254
26-Jun-2024
12:30
RUCHA
PATEL



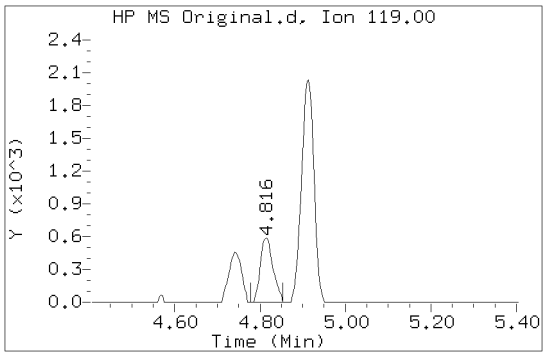
AFTER

MASS
117
AREA
4809
HEIGHT
2254
26-Jun-2024
12:30
RUCHA
PATEL



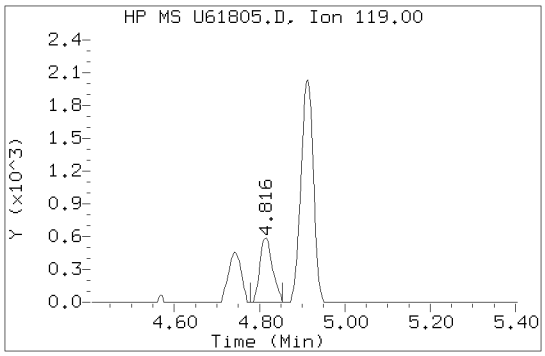
BEFORE

MASS
119
AREA
1215
HEIGHT
590
26-Jun-2024
12:30
RUCHA
PATEL



AFTER

MASS
119
AREA
1215
HEIGHT
590
26-Jun-2024
12:30
RUCHA
PATEL

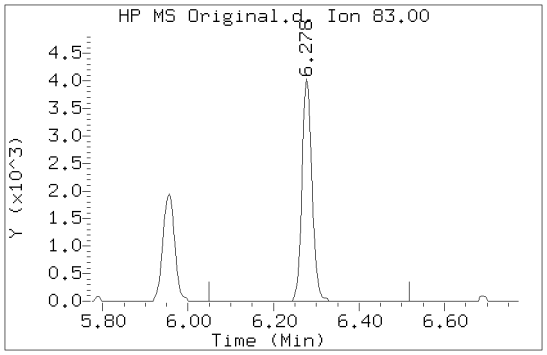


Bromodichloromethane (75-27-4)

Reason Code:

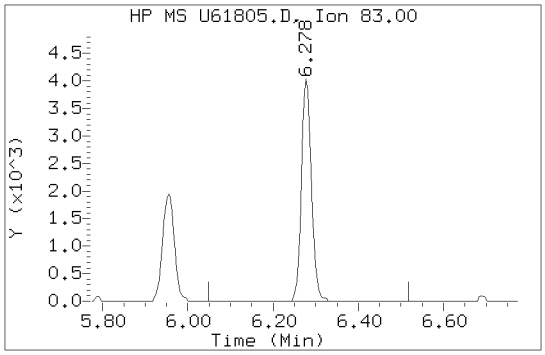
BEFORE

MASS
83
AREA
6656
HEIGHT
4036
26-Jun-2024
12:30
RUCHA
PATEL



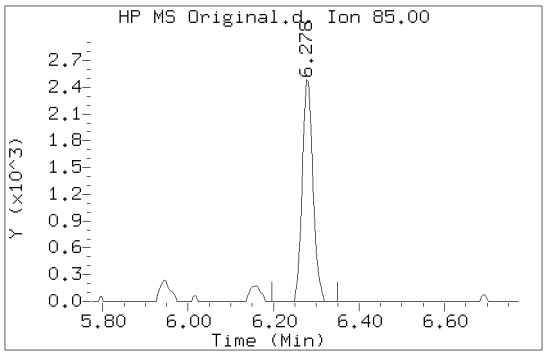
AFTER

MASS
83
AREA
6656
HEIGHT
4036
26-Jun-2024
12:30
RUCHA
PATEL



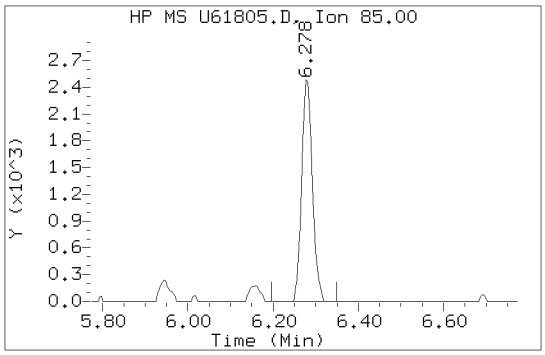
BEFORE

MASS
85
AREA
4387
HEIGHT
2484
26-Jun-2024
12:30
RUCHA
PATEL



AFTER

MASS
85
AREA
4387
HEIGHT
2484
26-Jun-2024
12:30
RUCHA
PATEL



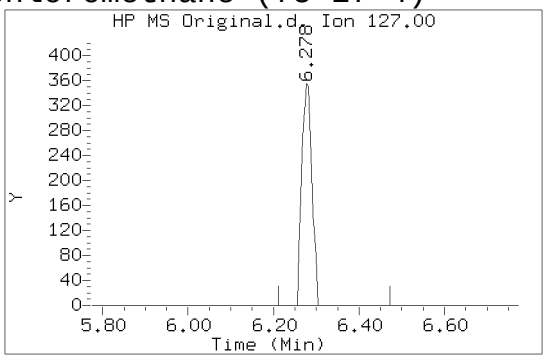
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61805.D
Inj Date : 18-JUN-2024 12:38
InstruID : VOA9.i
LabSampID : VSTD002

Bromodichloromethane (75-27-4)

Reason Code:

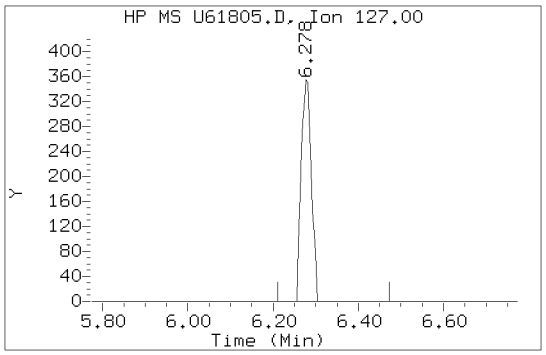
BEFORE

MASS
127
AREA
598
HEIGHT
355
26-Jun-2024
12:30
RUCHA
PATEL



AFTER

MASS
127
AREA
598
HEIGHT
355
26-Jun-2024
12:30
RUCHA
PATEL

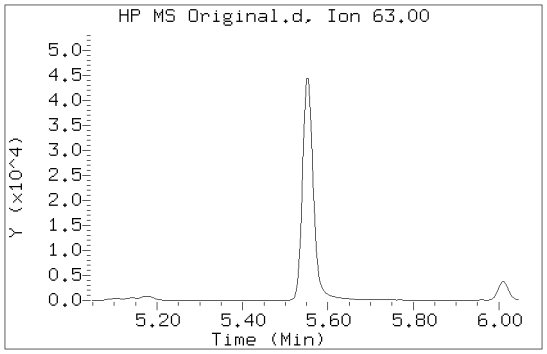


1,2-Dichloropropane (78-87-5)

Reason Code:

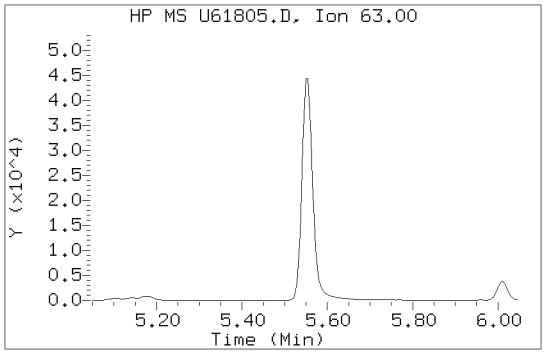
BEFORE

MASS
63
AREA
6561
HEIGHT
3739
26-Jun-2024
12:30
RUCHA
PATEL



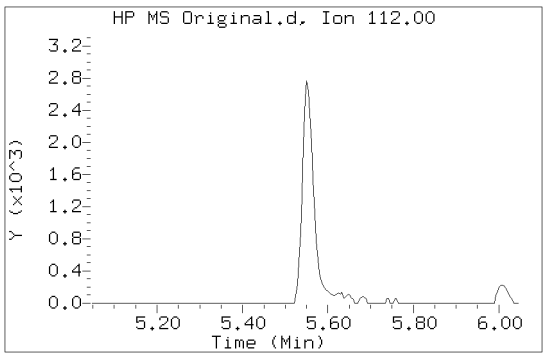
AFTER

MASS
63
AREA
6561
HEIGHT
3739
26-Jun-2024
12:30
RUCHA
PATEL



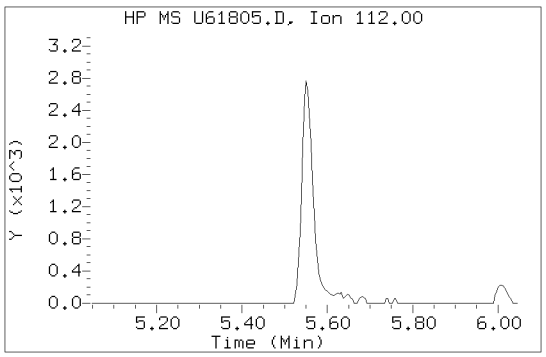
BEFORE

MASS
112
AREA
382
HEIGHT
226
26-Jun-2024
12:30
RUCHA
PATEL



AFTER

MASS
112
AREA
382
HEIGHT
226
26-Jun-2024
12:30
RUCHA
PATEL

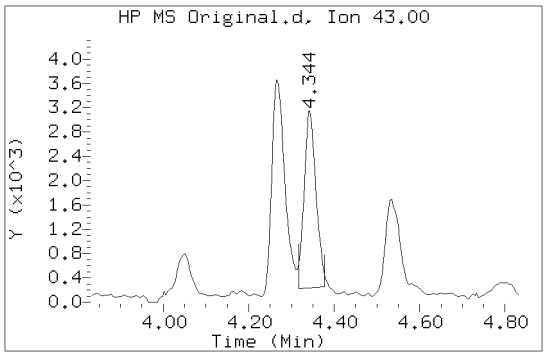


Vinyl Acetate (108-05-4)

Reason Code:

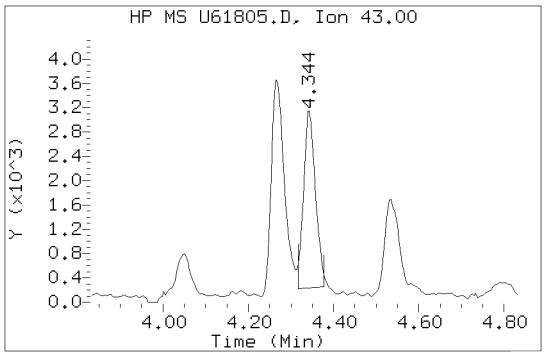
BEFORE

MASS
43
AREA
5776
HEIGHT
2919
26-Jun-2024
12:30
RUCHA
PATEL



AFTER

MASS
43
AREA
5776
HEIGHT
2919
26-Jun-2024
12:30
RUCHA
PATEL



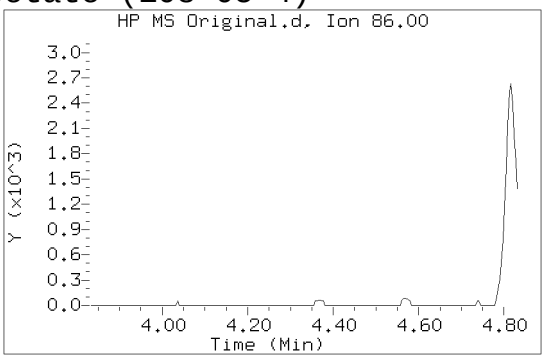
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61805.D
Inj Date : 18-JUN-2024 12:38
InstruID : VOA9.i
LabSampID : VSTD002

Vinyl Acetate (108-05-4)

Reason Code:

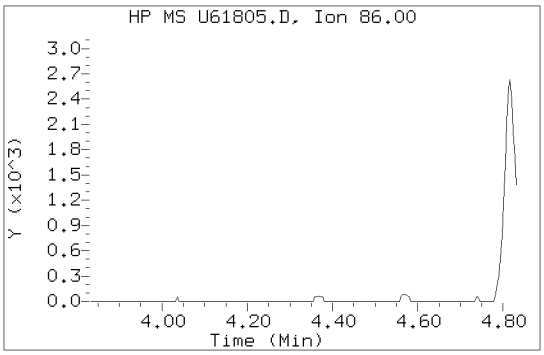
BEFORE

MASS
86
AREA
0
HEIGHT
0
26-Jun-2024
12:30
RUCHA
PATEL



AFTER

MASS
86
AREA
0
HEIGHT
0
26-Jun-2024
12:30
RUCHA
PATEL

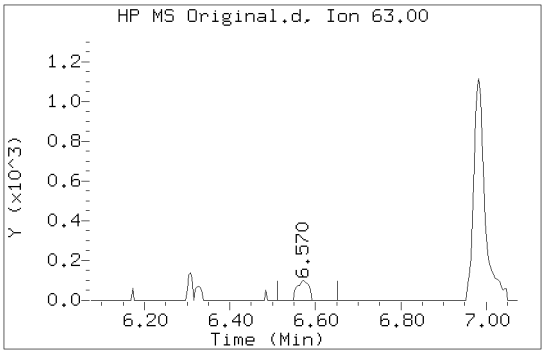


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

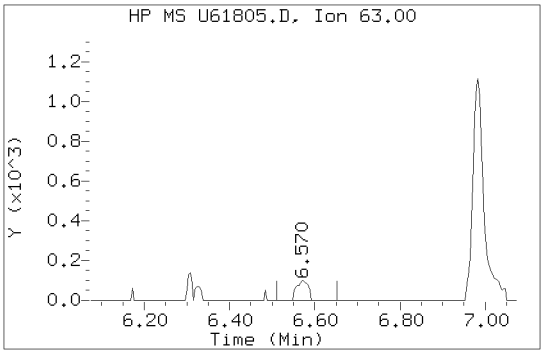
BEFORE

MASS
63
AREA
191
HEIGHT
99
26-Jun-2024
12:30
RUCHA
PATEL



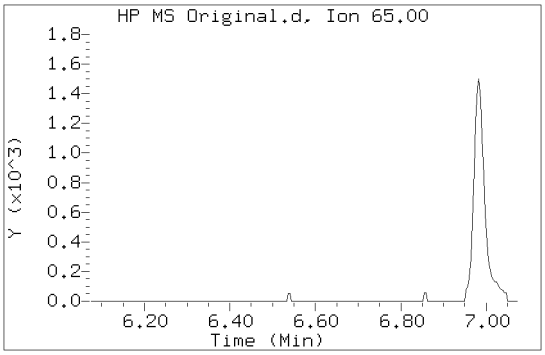
AFTER

MASS
63
AREA
191
HEIGHT
99
26-Jun-2024
12:30
RUCHA
PATEL



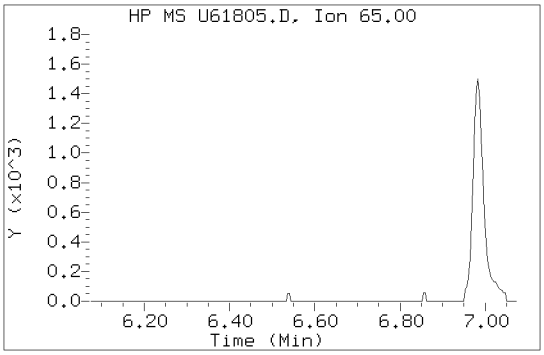
BEFORE

MASS
65
AREA
0
HEIGHT
0
26-Jun-2024
12:30
RUCHA
PATEL



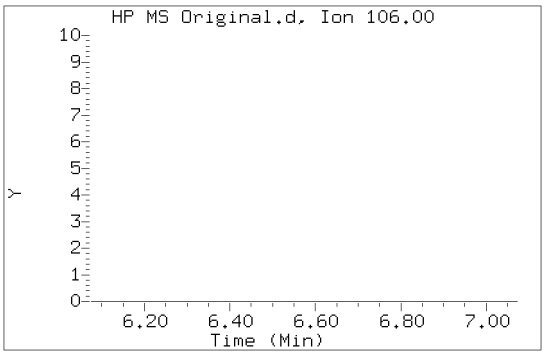
AFTER

MASS
65
AREA
0
HEIGHT
0
26-Jun-2024
12:30
RUCHA
PATEL



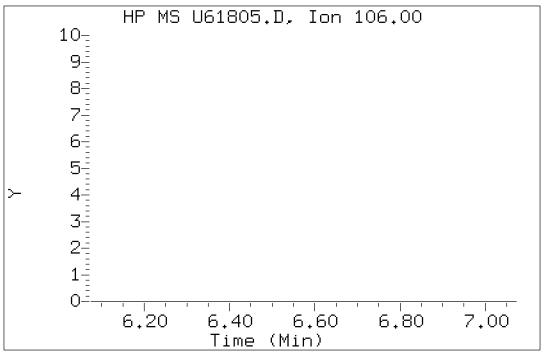
BEFORE

MASS
106
AREA
0
HEIGHT
0
26-Jun-2024
12:30
RUCHA
PATEL



AFTER

MASS
106
AREA
0
HEIGHT
0
26-Jun-2024
12:30
RUCHA
PATEL

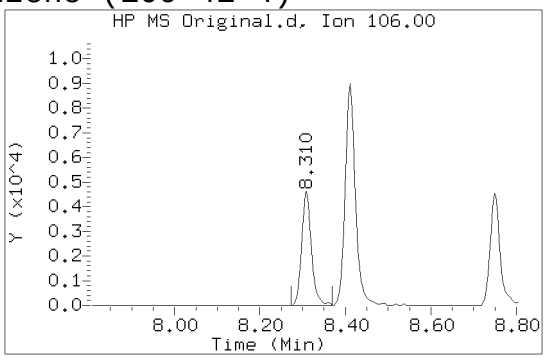


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61805.D
Inj Date : 18-JUN-2024 12:38
InstruID : VOA9.i
LabSampID : VSTD002

Ethylbenzene (100-41-4)

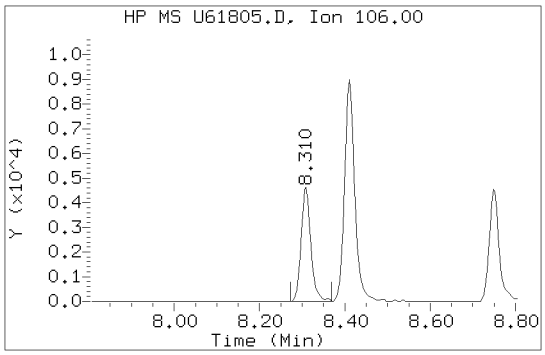
BEFORE

MASS
106
AREA
7515
HEIGHT
4639
26-Jun-2024
12:30
RUCHA
PATEL



AFTER

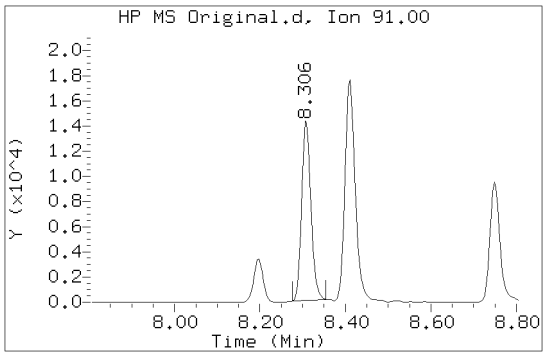
MASS
106
AREA
7515
HEIGHT
4639
26-Jun-2024
12:30
RUCHA
PATEL



Reason Code:

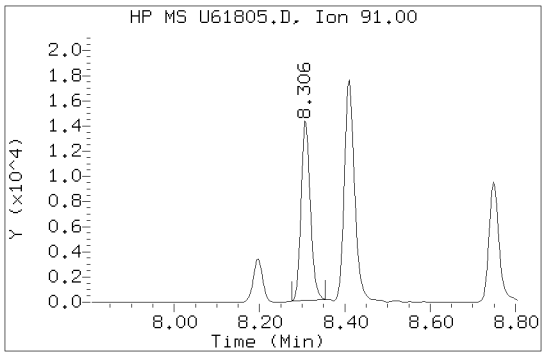
BEFORE

MASS
91
AREA
22077
HEIGHT
14270
26-Jun-2024
12:30
RUCHA
PATEL



AFTER

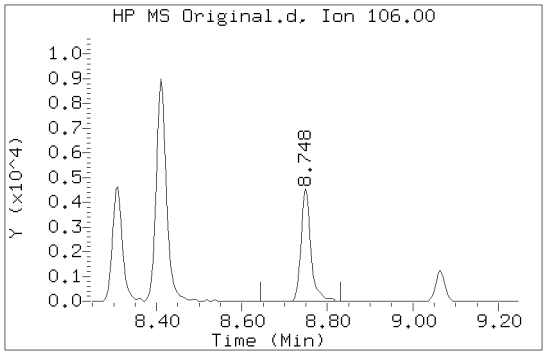
MASS
91
AREA
22077
HEIGHT
14270
26-Jun-2024
12:30
RUCHA
PATEL



o-Xylene (95-47-6)

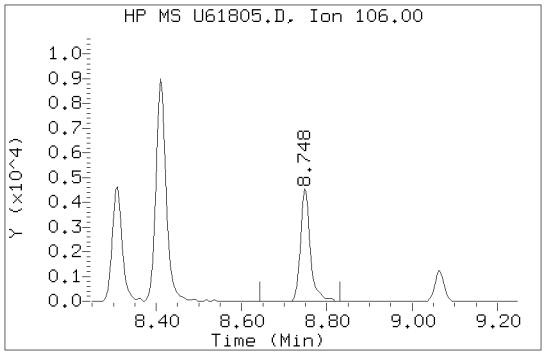
BEFORE

MASS
106
AREA
7414
HEIGHT
4554
26-Jun-2024
12:30
RUCHA
PATEL



AFTER

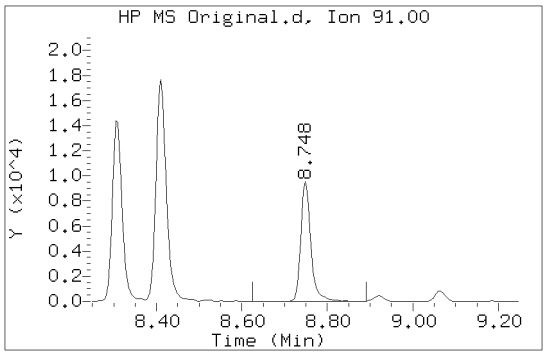
MASS
106
AREA
7414
HEIGHT
4554
26-Jun-2024
12:30
RUCHA
PATEL



Reason Code:

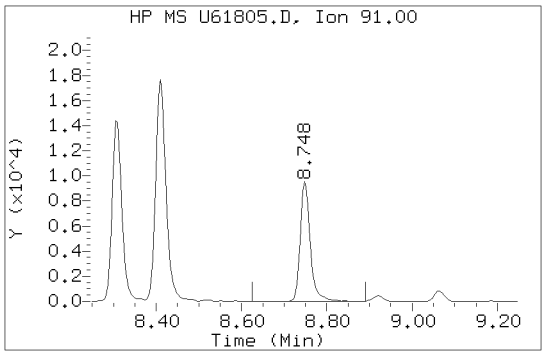
BEFORE

MASS
91
AREA
15932
HEIGHT
9548
26-Jun-2024
12:30
RUCHA
PATEL



AFTER

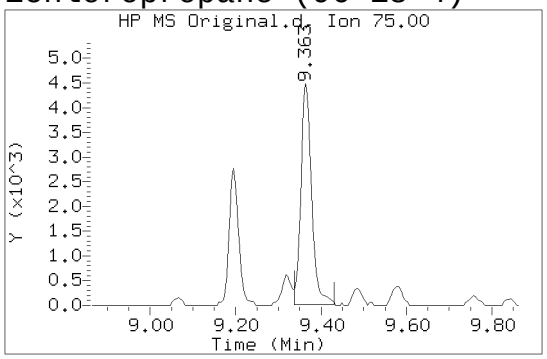
MASS
91
AREA
15932
HEIGHT
9548
26-Jun-2024
12:30
RUCHA
PATEL



Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61805.D
Inj Date : 18-JUN-2024 12:38
InstruID : VOA9.i
LabSampID : VSTD002

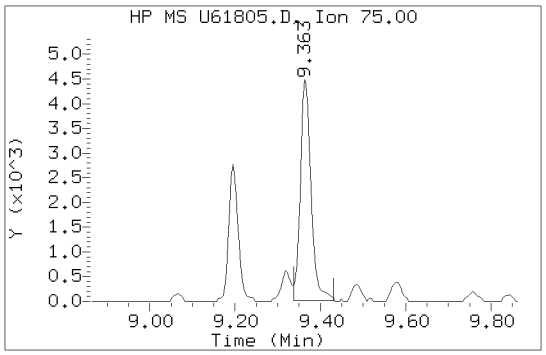
1,2,3-Trichloropropane (96-18-4)

BEFORE
MASS
75
AREA
7993
HEIGHT
4477
26-Jun-2024
12:30
RUCHA
PATEL

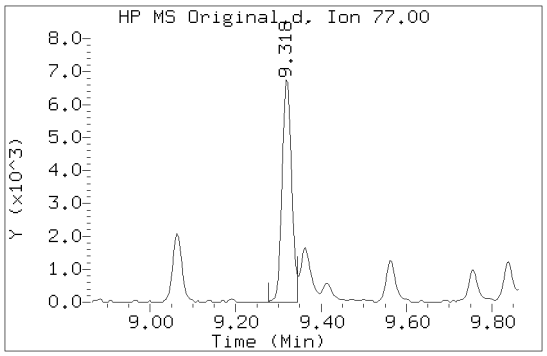


Reason Code:

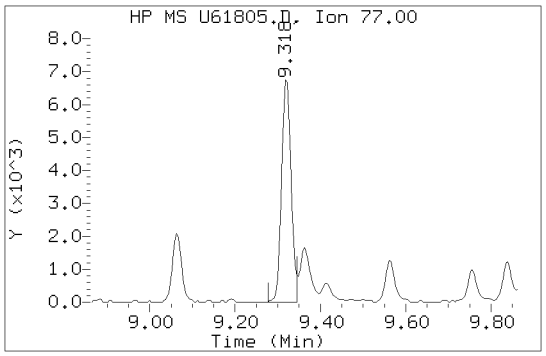
AFTER
MASS
75
AREA
7993
HEIGHT
4477
26-Jun-2024
12:30
RUCHA
PATEL



BEFORE
MASS
77
AREA
10552
HEIGHT
6749
26-Jun-2024
12:30
RUCHA
PATEL

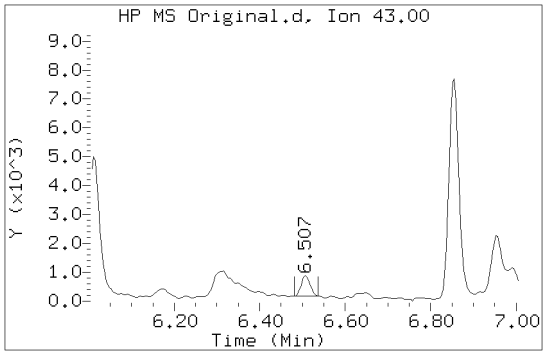


AFTER
MASS
77
AREA
10552
HEIGHT
6749
26-Jun-2024
12:30
RUCHA
PATEL



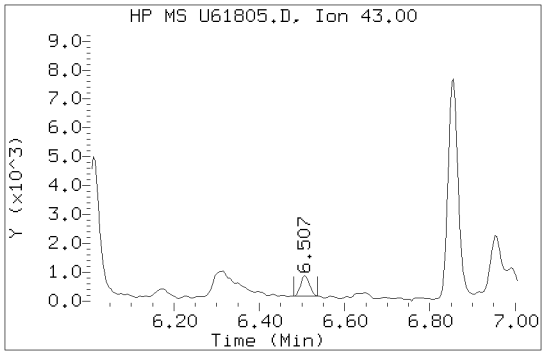
2-Nitropropane (79-46-9)

BEFORE
MASS
43
AREA
1036
HEIGHT
718
26-Jun-2024
12:30
RUCHA
PATEL

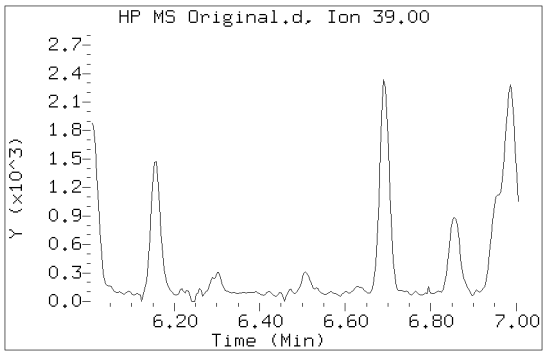


Reason Code:

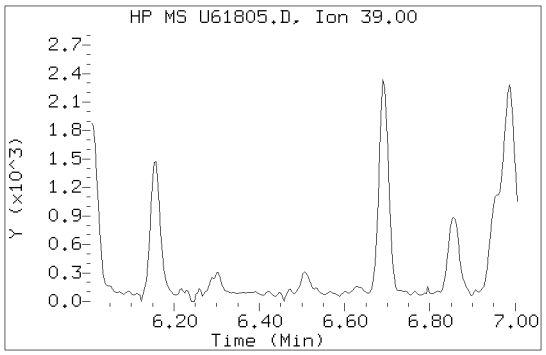
AFTER
MASS
43
AREA
1036
HEIGHT
718
26-Jun-2024
12:30
RUCHA
PATEL



BEFORE
MASS
39
AREA
0
HEIGHT
0
26-Jun-2024
12:30
RUCHA
PATEL



AFTER
MASS
39
AREA
0
HEIGHT
0
26-Jun-2024
12:30
RUCHA
PATEL

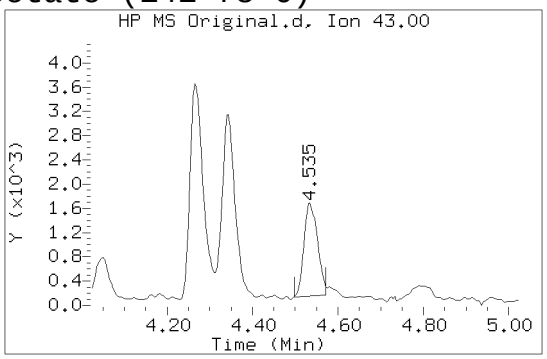


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61805.D
Inj Date : 18-JUN-2024 12:38
InstruID : VOA9.i
LabSampID : VSTD002

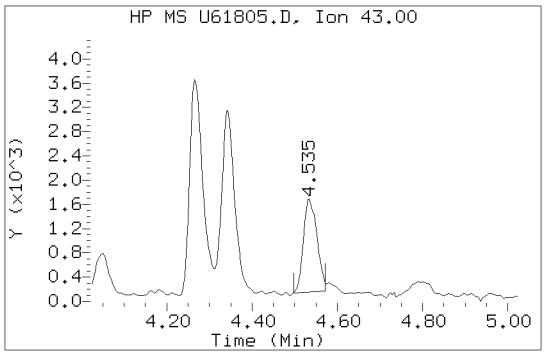
Ethyl Acetate (141-78-6)

Reason Code:

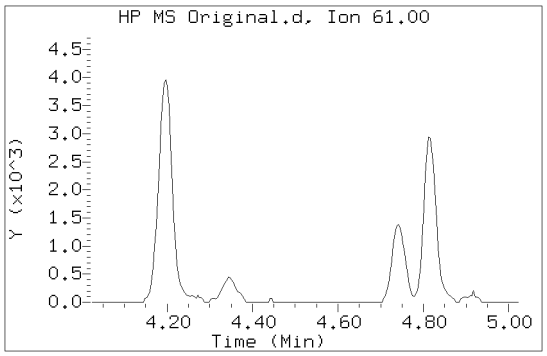
BEFORE
MASS
43
AREA
3474
HEIGHT
1534
26-Jun-2024
12:30
RUCHA
PATEL



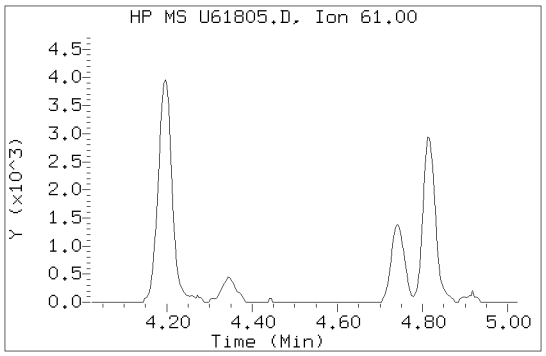
AFTER
MASS
43
AREA
3474
HEIGHT
1534
26-Jun-2024
12:30
RUCHA
PATEL



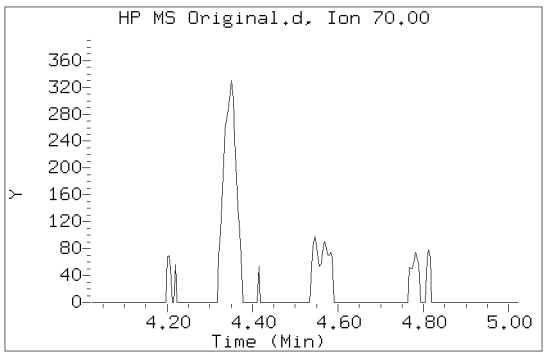
BEFORE
MASS
61
AREA
0
HEIGHT
0
26-Jun-2024
12:30
RUCHA
PATEL



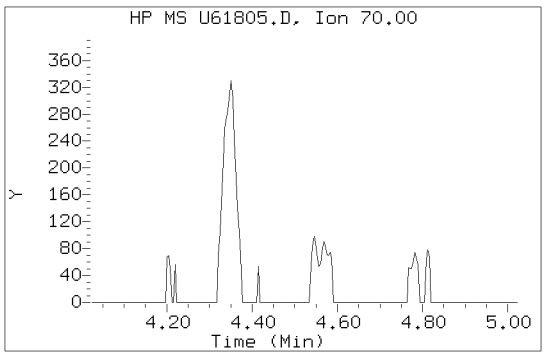
AFTER
MASS
61
AREA
0
HEIGHT
0
26-Jun-2024
12:30
RUCHA
PATEL



BEFORE
MASS
70
AREA
0
HEIGHT
0
26-Jun-2024
12:30
RUCHA
PATEL



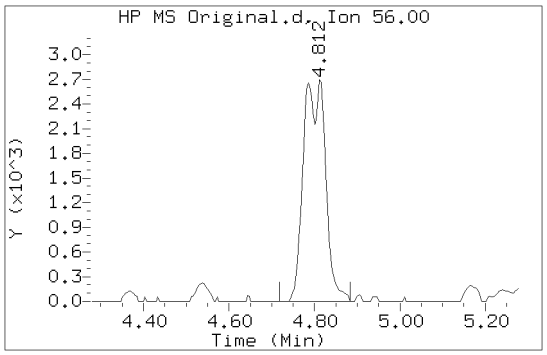
AFTER
MASS
70
AREA
0
HEIGHT
0
26-Jun-2024
12:30
RUCHA
PATEL



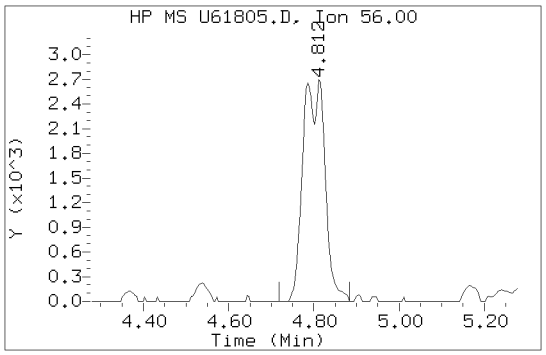
Cyclohexane (110-82-7)

Reason Code:

BEFORE
MASS
56
AREA
9795
HEIGHT
2696
26-Jun-2024
12:30
RUCHA
PATEL



AFTER
MASS
56
AREA
9795
HEIGHT
2696
26-Jun-2024
12:30
RUCHA
PATEL



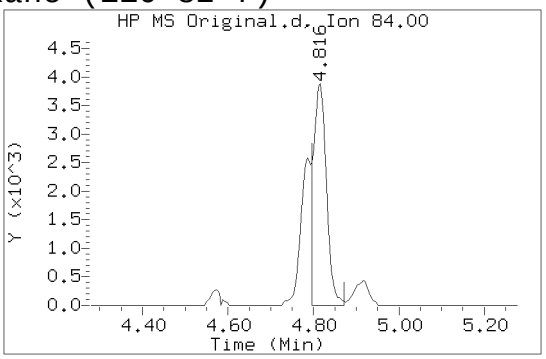
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61805.D
Inj Date : 18-JUN-2024 12:38
InstruID : VOA9.i
LabSampID : VSTD002

Cyclohexane (110-82-7)

Reason Code:

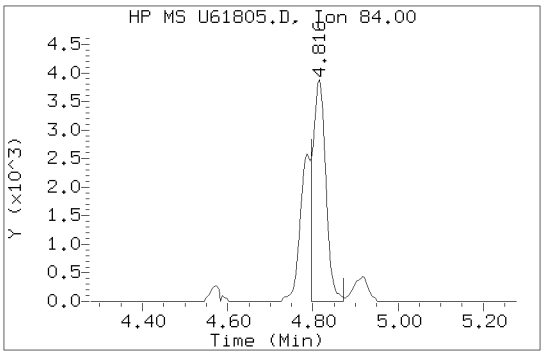
BEFORE

MASS
84
AREA
8093
HEIGHT
3881
26-Jun-2024
12:30
RUCHA
PATEL



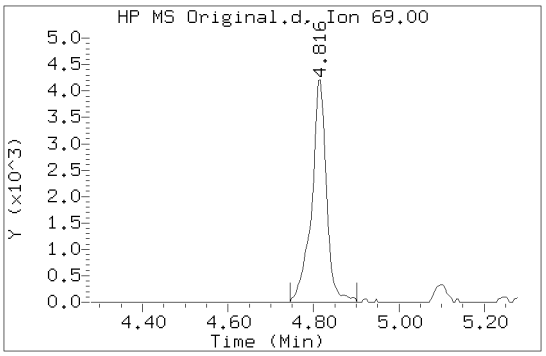
AFTER

MASS
84
AREA
8093
HEIGHT
3881
26-Jun-2024
12:30
RUCHA
PATEL



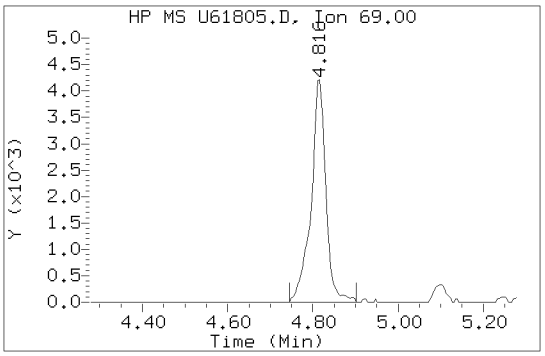
BEFORE

MASS
69
AREA
10191
HEIGHT
4209
26-Jun-2024
12:30
RUCHA
PATEL



AFTER

MASS
69
AREA
10191
HEIGHT
4209
26-Jun-2024
12:30
RUCHA
PATEL

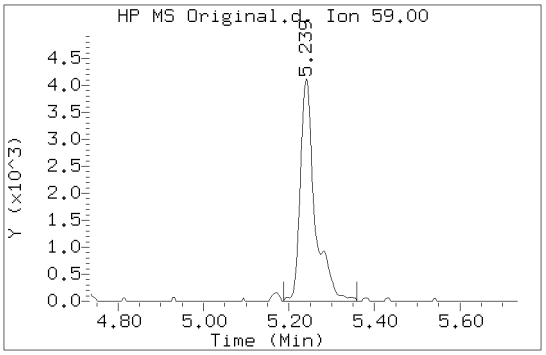


tert-Butyl formate (762-75-4)

Reason Code:

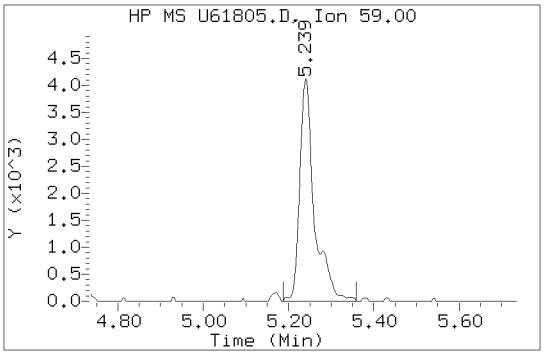
BEFORE

MASS
59
AREA
10071
HEIGHT
4118
26-Jun-2024
12:30
RUCHA
PATEL



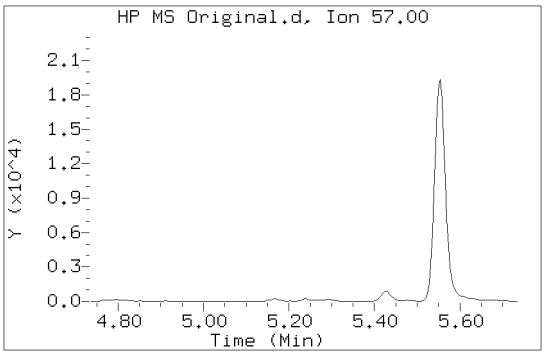
AFTER

MASS
59
AREA
10071
HEIGHT
4118
26-Jun-2024
12:30
RUCHA
PATEL



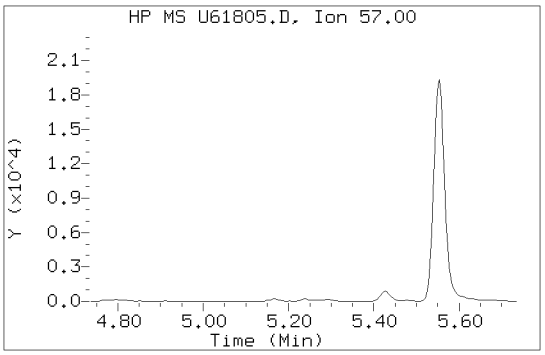
BEFORE

MASS
57
AREA
0
HEIGHT
0
26-Jun-2024
12:30
RUCHA
PATEL



AFTER

MASS
57
AREA
0
HEIGHT
0
26-Jun-2024
12:30
RUCHA
PATEL



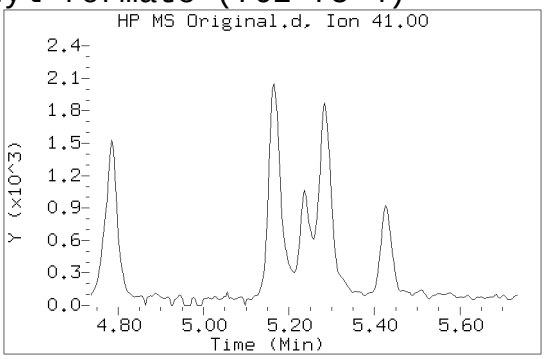
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61805.D
Inj Date : 18-JUN-2024 12:38
InstruID : VOA9.i
LabSampID : VSTD002

tert-Butyl formate (762-75-4)

Reason Code:

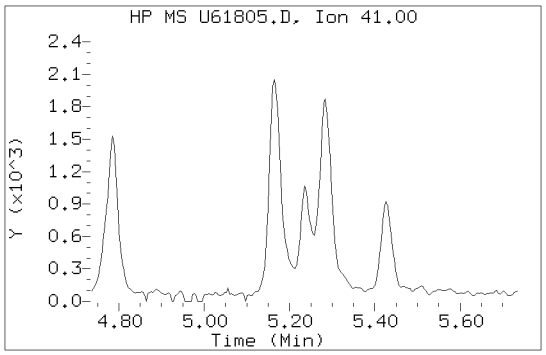
BEFORE

MASS
41
AREA
0
HEIGHT
0
26-Jun-2024
12:30
RUCHA
PATEL



AFTER

MASS
41
AREA
0
HEIGHT
0
26-Jun-2024
12:30
RUCHA
PATEL

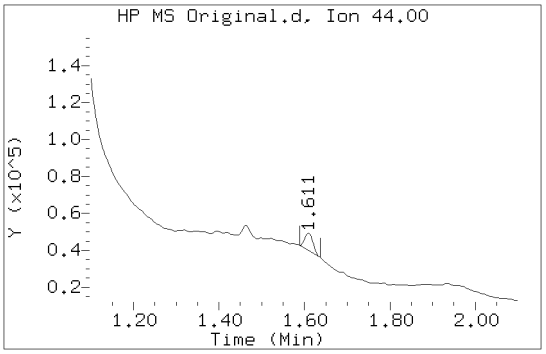


Ethylene oxide (75-21-8)

Reason Code:

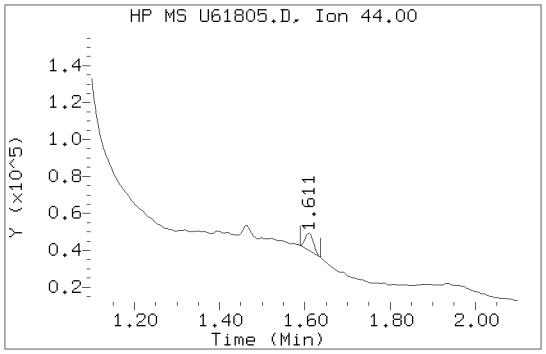
BEFORE

MASS
44
AREA
12681
HEIGHT
9489
26-Jun-2024
12:30
RUCHA
PATEL



AFTER

MASS
44
AREA
12681
HEIGHT
9489
26-Jun-2024
12:30
RUCHA
PATEL

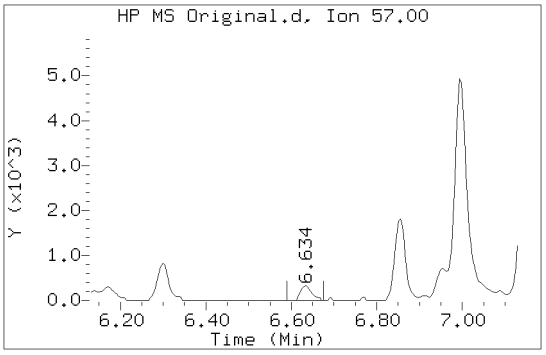


Epichlorohydrin (106-89-8)

Reason Code:

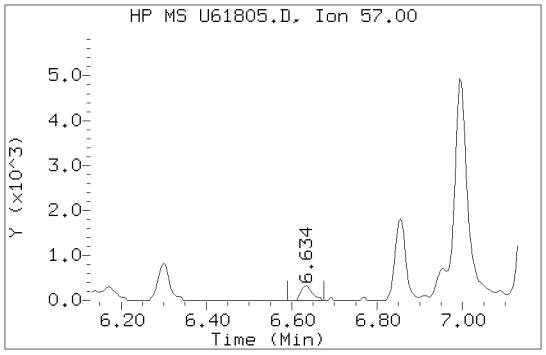
BEFORE

MASS
57
AREA
606
HEIGHT
325
26-Jun-2024
12:30
RUCHA
PATEL



AFTER

MASS
57
AREA
606
HEIGHT
325
26-Jun-2024
12:30
RUCHA
PATEL



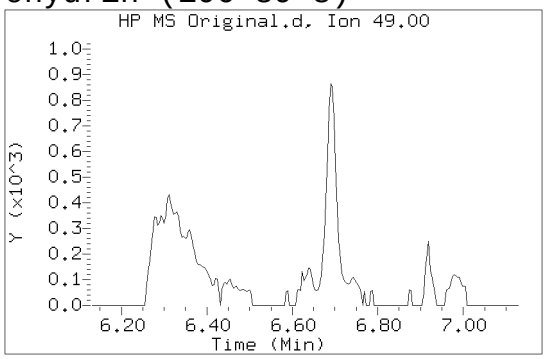
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61805.D
Inj Date : 18-JUN-2024 12:38
InstruID : VOA9.i
LabSampID : VSTD002

Epichlorohydrin (106-89-8)

Reason Code:

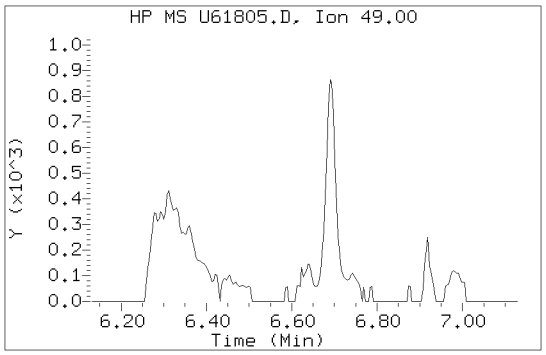
BEFORE

MASS
49
AREA
0
HEIGHT
0
26-Jun-2024
12:30
RUCHA
PATEL



AFTER

MASS
49
AREA
0
HEIGHT
0
26-Jun-2024
12:30
RUCHA
PATEL

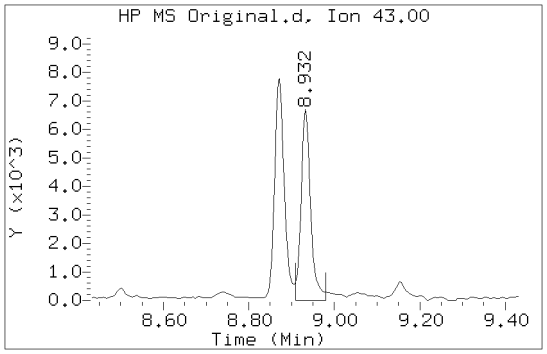


n-Amyl acetate (628-63-7)

Reason Code:

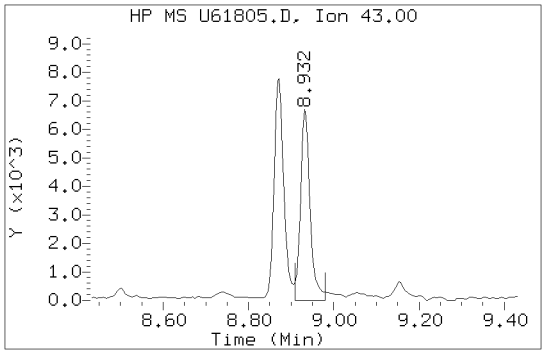
BEFORE

MASS
43
AREA
10604
HEIGHT
6678
26-Jun-2024
12:30
RUCHA
PATEL



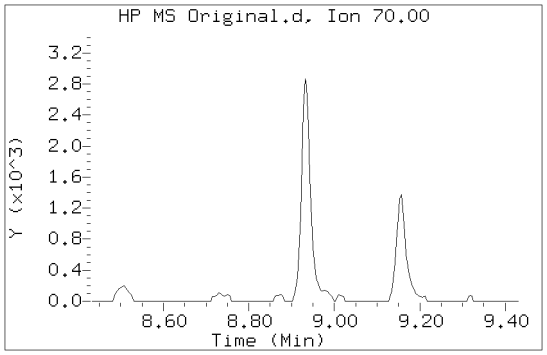
AFTER

MASS
43
AREA
10604
HEIGHT
6678
26-Jun-2024
12:30
RUCHA
PATEL



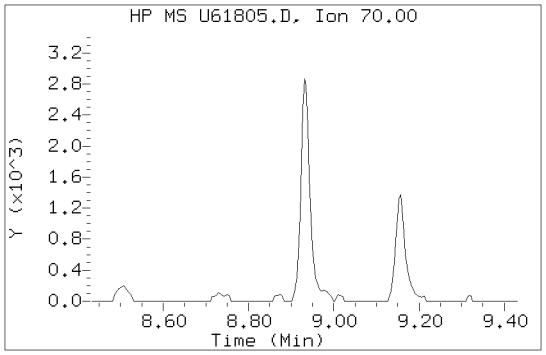
BEFORE

MASS
70
AREA
0
HEIGHT
0
26-Jun-2024
12:30
RUCHA
PATEL



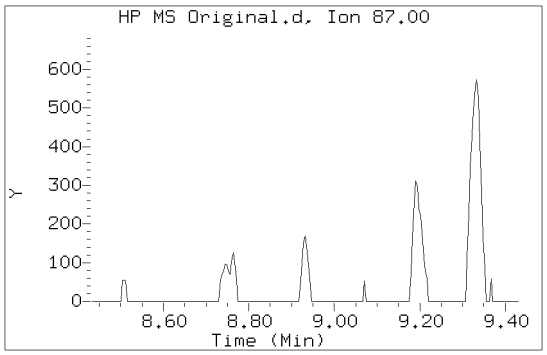
AFTER

MASS
70
AREA
0
HEIGHT
0
26-Jun-2024
12:30
RUCHA
PATEL



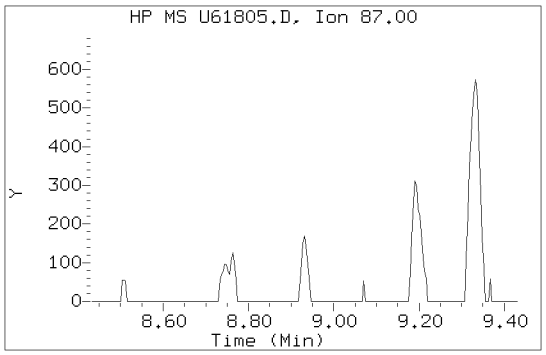
BEFORE

MASS
87
AREA
0
HEIGHT
0
26-Jun-2024
12:30
RUCHA
PATEL



AFTER

MASS
87
AREA
0
HEIGHT
0
26-Jun-2024
12:30
RUCHA
PATEL



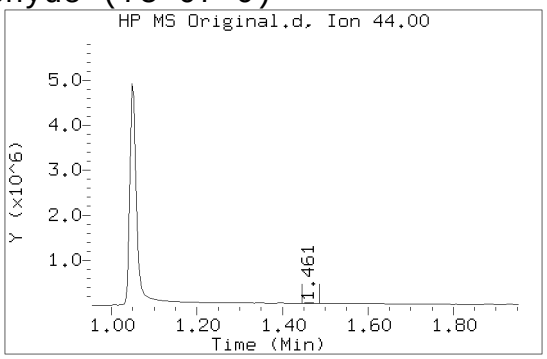
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61805.D
Inj Date : 18-JUN-2024 12:38
InstruID : VOA9.i
LabSampID : VSTD002

Acetaldehyde (75-07-0)

Reason Code:

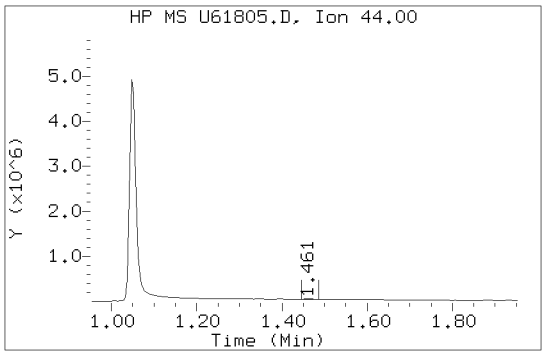
BEFORE

MASS
44
AREA
7182
HEIGHT
6011
26-Jun-2024
12:30
RUCHA
PATEL



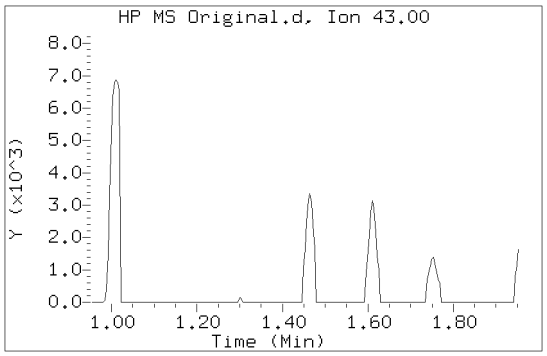
AFTER

MASS
44
AREA
7182
HEIGHT
6011
26-Jun-2024
12:30
RUCHA
PATEL



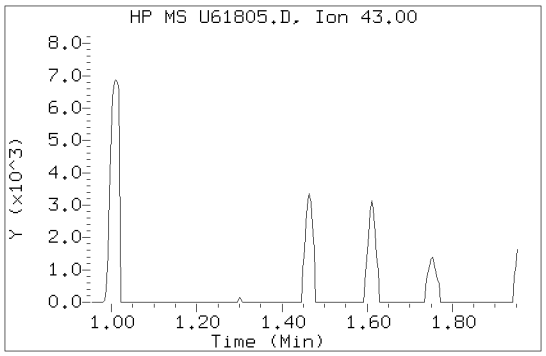
BEFORE

MASS
43
AREA
0
HEIGHT
0
26-Jun-2024
12:30
RUCHA
PATEL



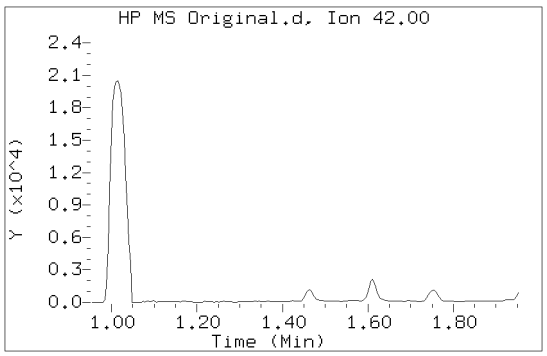
AFTER

MASS
43
AREA
0
HEIGHT
0
26-Jun-2024
12:30
RUCHA
PATEL



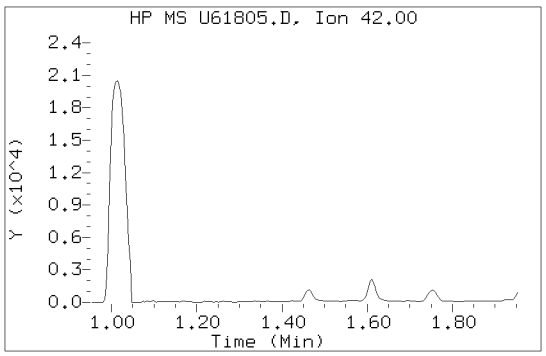
BEFORE

MASS
42
AREA
0
HEIGHT
0
26-Jun-2024
12:30
RUCHA
PATEL



AFTER

MASS
42
AREA
0
HEIGHT
0
26-Jun-2024
12:30
RUCHA
PATEL

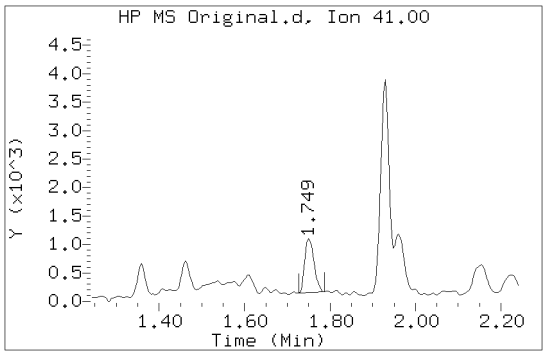


Isobutylene (115-11-7)

Reason Code:

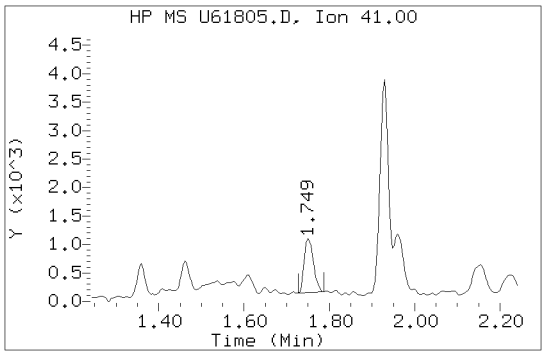
BEFORE

MASS
41
AREA
1433
HEIGHT
952
26-Jun-2024
12:30
RUCHA
PATEL



AFTER

MASS
41
AREA
1433
HEIGHT
952
26-Jun-2024
12:30
RUCHA
PATEL

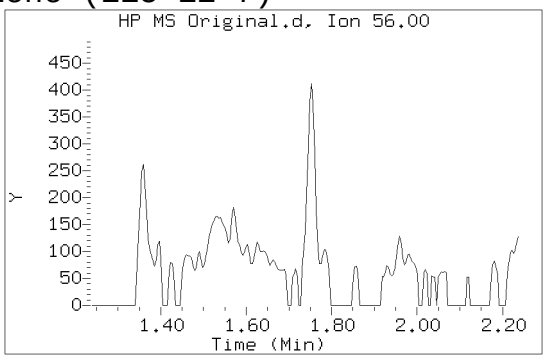


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61805.D
Inj Date : 18-JUN-2024 12:38
InstruID : VOA9.i
LabSampID : VSTD002

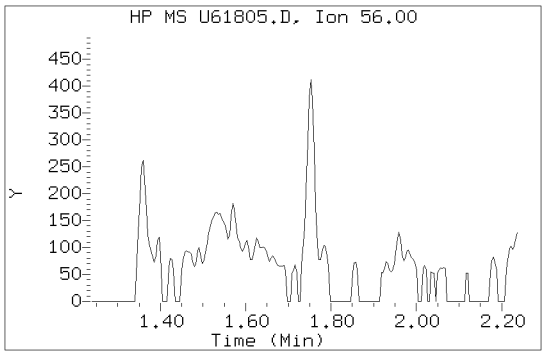
Isobutylene (115-11-7)

Reason Code:

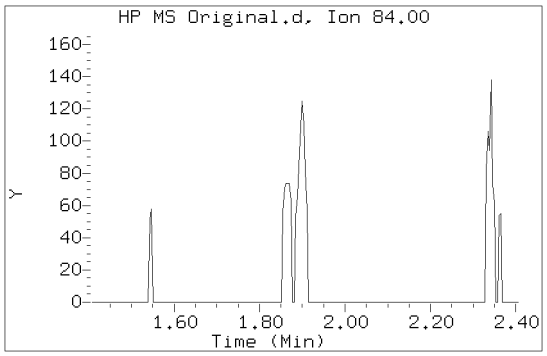
BEFORE
MASS
56
AREA
0
HEIGHT
0
26-Jun-2024
12:30
RUCHA
PATEL



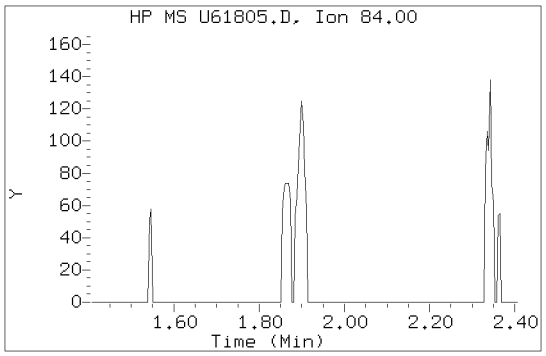
AFTER
MASS
56
AREA
0
HEIGHT
0
26-Jun-2024
12:30
RUCHA
PATEL



BEFORE
MASS
84
AREA
0
HEIGHT
0
26-Jun-2024
12:30
RUCHA
PATEL



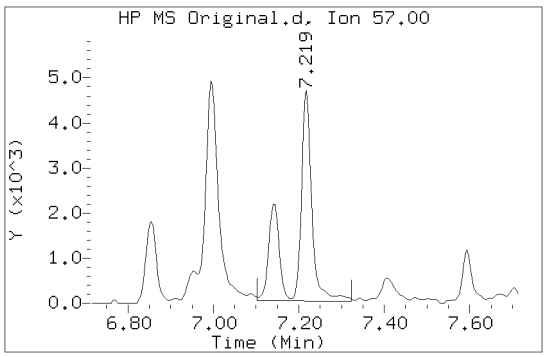
AFTER
MASS
84
AREA
0
HEIGHT
0
26-Jun-2024
12:30
RUCHA
PATEL



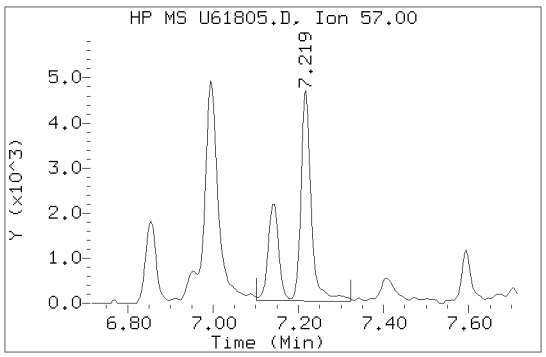
sec-Butyl Ether (6863-58-7)

Reason Code:

BEFORE
MASS
57
AREA
11668
HEIGHT
4667
26-Jun-2024
12:30
RUCHA
PATEL



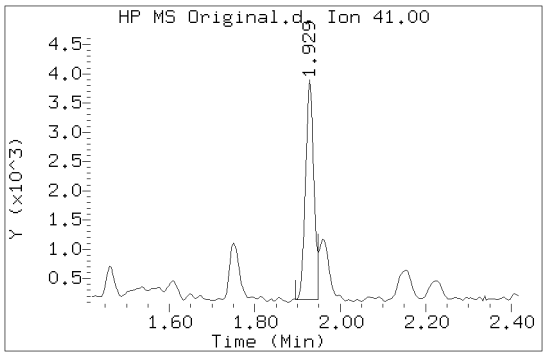
AFTER
MASS
57
AREA
11668
HEIGHT
4667
26-Jun-2024
12:30
RUCHA
PATEL



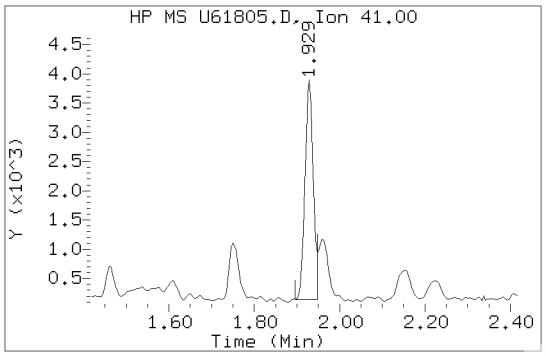
2-Chloropropene (557-98-2)

Reason Code:

BEFORE
MASS
41
AREA
5233
HEIGHT
3753
26-Jun-2024
12:30
RUCHA
PATEL



AFTER
MASS
41
AREA
5233
HEIGHT
3753
26-Jun-2024
12:30
RUCHA
PATEL



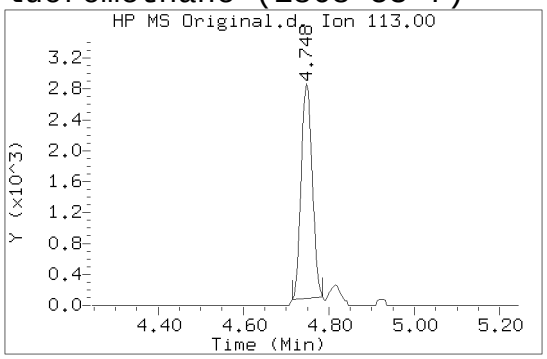
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61805.D
Inj Date : 18-JUN-2024 12:38
InstruID : VOA9.i
LabSampID : VSTD002

Dibromofluoromethane (1868-53-7)

Reason Code:

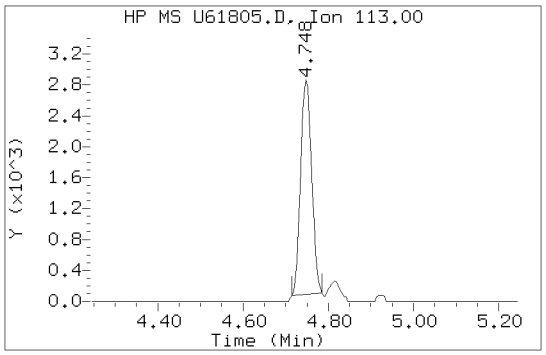
BEFORE

MASS
113
AREA
5090
HEIGHT
2778
26-Jun-2024
12:30
RUCHA
PATEL



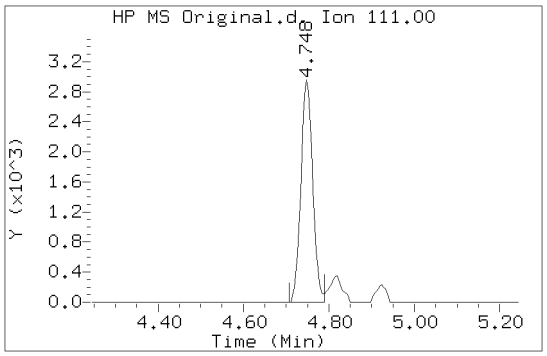
AFTER

MASS
113
AREA
5090
HEIGHT
2778
26-Jun-2024
12:30
RUCHA
PATEL



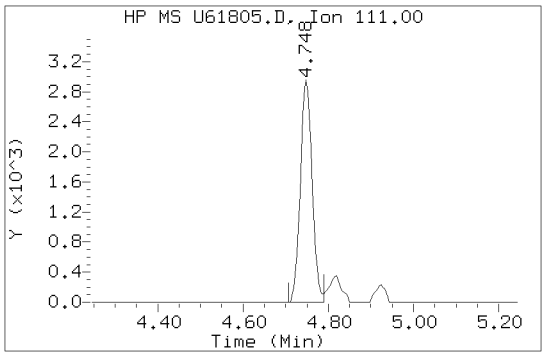
BEFORE

MASS
111
AREA
5759
HEIGHT
2958
26-Jun-2024
12:30
RUCHA
PATEL



AFTER

MASS
111
AREA
5759
HEIGHT
2958
26-Jun-2024
12:30
RUCHA
PATEL

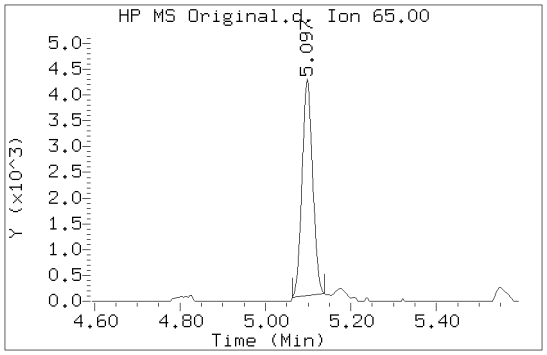


1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

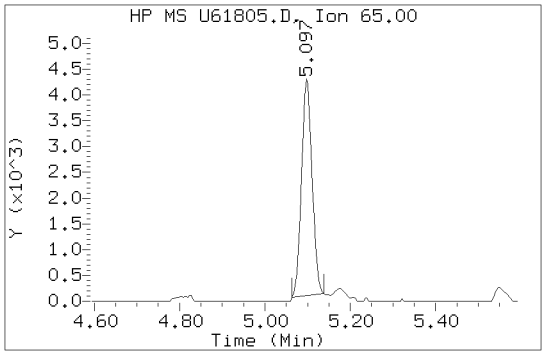
BEFORE

MASS
65
AREA
7368
HEIGHT
4200
26-Jun-2024
12:30
RUCHA
PATEL



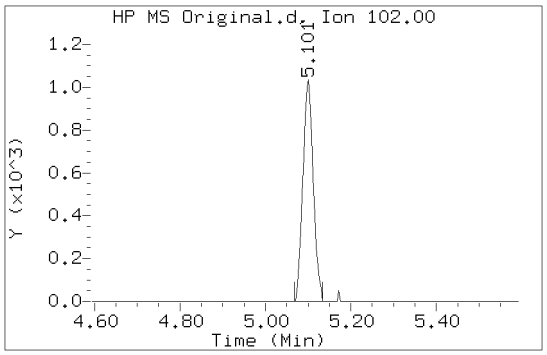
AFTER

MASS
65
AREA
7368
HEIGHT
4200
26-Jun-2024
12:30
RUCHA
PATEL



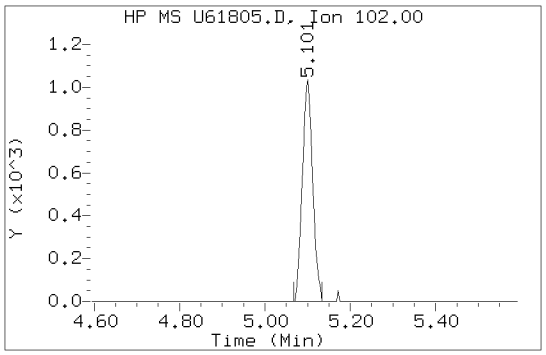
BEFORE

MASS
102
AREA
1786
HEIGHT
1035
26-Jun-2024
12:30
RUCHA
PATEL



AFTER

MASS
102
AREA
1786
HEIGHT
1035
26-Jun-2024
12:30
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61806.D Page 1
Report Date: 26-Jun-2024 12:30

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61806.D
Lab Smp Id: VSTD005 Client Smp ID: VSTD005
Inj Date : 18-JUN-2024 12:59
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD005;VSTD005;1;5
Misc Info : V9;WATER;0;50;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240618.b\8260C.m
Meth Date : 26-Jun-2024 12:30 VOA9.i Quant Type: ISTD
Cal Date : 18-JUN-2024 12:38 Cal File: U61805.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 50.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	50.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Pentafluorobenzene	168	4.811	4.811	(1.000)	271819	50.0000	
	2 Dichlorodifluoromethane	85	1.160	1.160	(0.241)	6615	5.00000	4.85(M)
	3 Chloromethane	50	1.291	1.291	(0.268)	25986	5.00000	4.75
	4 Propionitrile	54	4.335	4.335	(0.901)	12523	50.0000	43.56(a)
	5 Vinyl Chloride	62	1.374	1.374	(0.286)	10804	5.00000	4.95(M)
	6 Bromomethane	94	1.614	1.614	(0.335)	4766	5.00000	4.60
	7 Chloroethane	64	1.696	1.696	(0.353)	7468	5.00000	4.91
	8 Trichlorofluoromethane	101	1.891	1.891	(0.393)	12765	5.00000	5.06
	9 Acrolein	56	2.259	2.259	(0.469)	1028	10.0000	5.88(a)
	10 Acetone	43	2.405	2.405	(0.500)	9029	10.0000	8.44
	11 1,1-Dichloroethene	96	2.326	2.326	(0.484)	7444	5.00000	4.73
	12 Isobutyl Alcohol	43	5.284	5.284	(1.098)	22787	100.000	96.41(a)
	13 Acetonitrile	39	2.667	2.667	(0.554)	11657	50.0000	51.84(a)
	14 Allyl Chloride	41	2.667	2.667	(0.554)	25297	5.00000	4.62(a)
	15 Iodomethane	142	2.461	2.461	(0.512)	1755	10.0000	8.77(T)
	16 Acrylonitrile	53	3.061	3.061	(0.636)	7256	10.0000	9.64
	17 Methylene Chloride	84	2.791	2.791	(0.580)	12681	5.00000	4.90
	18 Methyl tert-butyl ether	73	3.076	3.076	(0.639)	24637	5.00000	4.74
	19 Carbon Disulfide	76	2.517	2.517	(0.523)	41973	10.0000	9.86
	20 trans-1,2-Dichloroethene	96	3.053	3.053	(0.635)	9009	5.00000	4.96

21 Vinyl Acetate	43	4.339	4.339 (0.902)	8618	10.0000	9.19(M)
22 1,1-Dichloroethane	63	3.507	3.507 (0.729)	16119	5.00000	4.64

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.604	3.604	(0.749)	12629	5.00000	4.59(a)
	24 2-Butanone	43	4.264	4.264	(0.886)	9187	10.0000	8.62
	25 Methacrylonitrile	41	4.493	4.493	(0.934)	4640	5.00000	4.10(a)
	26 2,2-Dichloropropane	77	4.178	4.178	(0.868)	11254	5.00000	4.74
	27 cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	9915	5.00000	4.61
	28 Chloroform	83	4.568	4.568	(0.949)	16401	5.00000	4.68
	29 Bromochloromethane	128	4.467	4.467	(0.928)	5018	5.00000	4.54
$	30 Dibromofluoromethane	113	4.744	4.744	(0.986)	9956	5.00000	5.75(M)
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.985)	12131	5.00000	4.68
	32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	11463	5.00000	4.39
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	13081	5.00000	3.91
	34 Carbon Tetrachloride	117	4.909	4.909	(0.885)	9227	5.00000	4.21(M)
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.059)	12333	5.00000	5.97(M)
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	402002	50.0000	
	37 Benzene	78	5.138	5.138	(0.926)	37223	5.00000	4.62
	38 Trichloroethene	130	5.786	5.786	(1.043)	9695	5.00000	4.78(a)
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	9682	5.00000	4.41(a)
	40 Methyl Methacrylate	41	5.824	5.824	(1.210)	2910	5.00000	4.44(a)
	41 2-Chloroethylvinyl ether	63	6.566	6.566	(1.183)	244	10.0000	16.25(M)
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	9025	5.00000	3.98(aM)
	43 2-Nitropropane	43	6.506	6.506	(1.352)	1575	5.00000	3.56(a)
	44 Dibromomethane	93	6.116	6.116	(1.102)	5491	5.00000	4.27(a)
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	17163	10.0000	9.34
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	10875	5.00000	4.69(a)
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	371541	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	35161	5.00000	5.47
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	11202	5.00000	4.43(a)
	50 Toluene	91	6.978	6.978	(0.853)	37307	5.00000	4.59(a)
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	8400	5.00000	4.28(a)
	52 2-Hexanone	43	7.214	7.214	(0.881)	21946	10.0000	10.16
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	7447	5.00000	3.88(a)
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	15016	5.00000	4.47(a)
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	6356	5.00000	4.23(a)
	56 Tetrachloroethene	164	7.454	7.454	(0.911)	7498	5.00000	4.71(a)
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	7388	5.00000	4.25(a)
	58 1-Chlorohexane	55	8.193	8.193	(1.476)	10035	5.00000	4.79(a)
	59 Chlorobenzene	112	8.208	8.208	(1.003)	26152	5.00000	4.67(a)
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	7326	5.00000	4.05(a)
	61 Ethylbenzene	106	8.309	8.309	(1.015)	11718	5.00000	4.53(aM)
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	26399	10.0000	8.63(a)
	63 o-Xylene	106	8.748	8.748	(1.069)	13102	5.00000	4.36(aM)
	64 Styrene	104	8.763	8.763	(1.071)	20405	5.00000	3.97(a)
	66 Bromoform	173	8.916	8.916	(1.089)	4085	5.00000	4.42(Ta)
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	36170	5.00000	4.59(a)
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	11331	5.00000	4.33(a)
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	13795	5.00000	5.60
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	202206	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	9684	5.00000	3.98(aM)
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	2224	5.00000	4.38(a)
	73 n-Propylbenzene	91	9.415	9.415	(0.926)	38530	5.00000	4.38(a)
	74 Bromobenzene	156	9.317	9.317	(0.916)	11080	5.00000	4.51(a)
	75 1,3,5-Trimethylbenzene	105	9.561	9.561	(0.940)	21165	5.00000	3.73(a)

76	2-Chlorotoluene	91	9.486	9.486 (0.933)	26824	5.00000	4.52(a)
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	29030	5.00000	4.41(a)

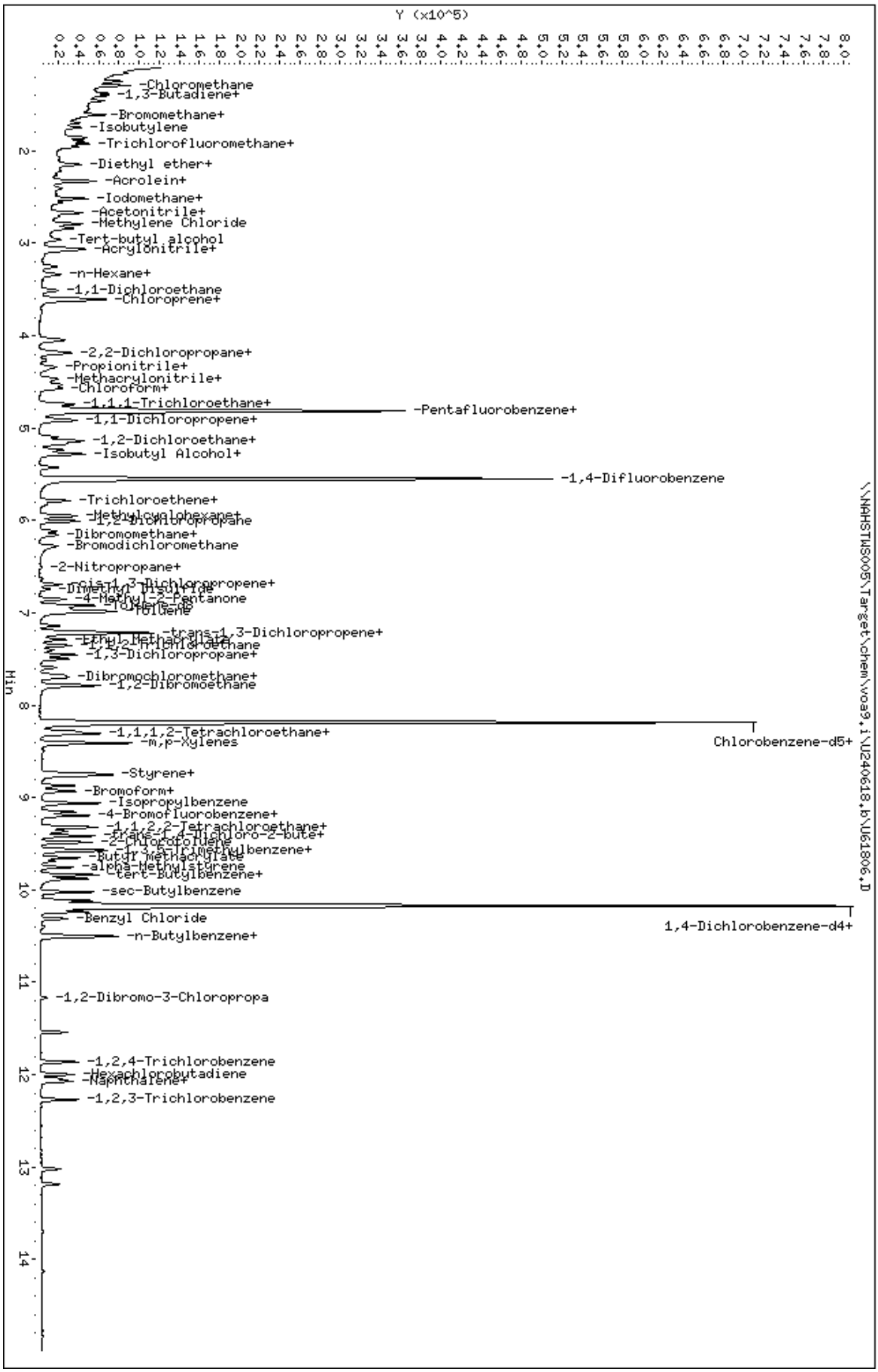
Data File: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61806.D Page 3
Report Date: 26-Jun-2024 12:30

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.838	9.838	(0.967)	25015	5.00000	4.59(a)
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	25835	5.00000	4.85(a)
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	33571	5.00000	4.66(a)
82	p-Isopropyltoluene	119	10.146	10.146	(0.997)	25414	5.00000	4.19(a)
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	19664	5.00000	4.48(a)
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	20905	5.00000	4.55(a)
86	Benzyl Chloride	91	10.311	10.311	(1.260)	17404	5.00000	4.47(a)
87	n-Butylbenzene	91	10.494	10.494	(1.032)	24343	5.00000	4.38(a)
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	19065	5.00000	4.46(a)
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	1241	5.00000	4.40(a)
90	1,2,4-Trichlorobenzene	180	11.863	11.863	(1.166)	12178	5.00000	4.44(a)
91	Hexachlorobutadiene	225	12.001	12.001	(1.180)	6008	5.00000	5.18
92	Naphthalene	128	12.069	12.069	(1.186)	21378	5.00000	4.32(a)
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	11268	5.00000	4.58(a)
146	Methyl acetate	43	2.708	2.708	(0.563)	7309	5.00000	3.94(a)
138	Freon TF	101	2.330	2.330	(0.484)	7843	5.00000	5.27
141	Cyclohexane	56	4.781	4.781	(0.994)	16399	5.00000	4.91(a)
142	Tetrahydrofuran	42	4.542	4.542	(0.944)	3175	10.0000	7.11
147	Methylcyclohexane	55	5.947	5.947	(1.072)	19537	5.00000	4.42(a)
135	1,4-Dioxane	88	6.165	6.165	(1.281)	3081	100.000	93.64
132	n-Butanol	56	5.824	5.824	(1.210)	4365	100.000	92.42(a)
136	n-Hexane	57	3.334	3.334	(0.693)	9039	5.00000	5.05
139	Diethyl ether	59	2.139	2.139	(0.445)	7428	5.00000	4.70(a)
148	Tert-butyl alcohol	59	2.963	2.963	(0.616)	16958	100.000	94.55
149	Isopropyl alcohol	45	2.559	2.559	(0.532)	12011	100.000	89.90(T)
156	Diisopropyl ether	45	3.616	3.616	(0.751)	30402	5.00000	4.52(Ta)
162	Butyl acrylate	55	8.733	8.733	(1.067)	15971	5.00000	4.92(a)
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	38627	5.00000	4.59(a)
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	23546	5.00000	5.10
167	Ethanol	45	2.075	2.075	(0.431)	2792	100.000	86.90
172	tert-Butyl formate	59	5.239	5.239	(1.089)	13399	10.0000	8.65
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	68297	100.000	98.44
140	1,3-Butadiene	54	1.400	1.400	(0.291)	4426	5.00000	4.80(a)
182	Epichlorohydrin	57	6.633	6.633	(1.195)	955	20.0000	19.47(M)
M 94	1,2-Dichloroethylene (total)	96				18924	10.0000	(a)
130	Ethyl Acetate	43	4.530	4.530	(0.942)	4685	5.00000	4.97(aM)
131	Methyl Acrylate	55	4.369	4.369	(0.908)	10143	5.00000	4.41(a)
189	n-Butyl acetate	43	7.705	7.705	(0.941)	12673	5.00000	4.55(a)
134	Cyclohexanone	55	9.156	9.156	(0.900)	13562	100.000	86.60(a)
185	Isoprene	39	2.150	2.150	(0.447)	2037	5.00000	4.78(a)
188	Isopropyl acetate	43	5.284	5.284	(0.952)	23249	5.00000	4.44(a)
150	Allyl alcohol	57	3.334	3.334	(0.693)	9039	100.000	101.14
194	Acetaldehyde	44	1.456	1.456	(0.303)	9293	20.0000	19.20(M)
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	4106	5.00000	4.27(a)
202	Isobutylene	41	1.745	1.745	(0.363)	3863	5.00000	4.86(aM)
133	Ethyl Acrylate	55	5.947	5.947	(1.236)	19537	5.00000	4.43(a)
163	Butyl methacrylate	41	9.651	9.651	(0.949)	10056	5.00000	4.01(a)
159	Propylene oxide	43	2.195	2.195	(0.456)	1432	10.0000	9.39
178	Ethylene oxide	44	1.603	1.603	(0.333)	15657	10.0000	9.66(M)
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	8094	5.00000	4.58(a)
204	Tetrahydrothiophene	60	7.672	7.672	(0.937)	9147	5.00000	4.41(aA)
205	sec-Butyl Ether	57	7.218	7.218	(0.882)	19597	5.00000	4.55(aAM)

187 n-Amyl acetate	43	8.931	8.931 (1.091)	14831	5.00000	4.61(aM)
206 2-Chloropropene	41	1.921	1.921 (0.399)	13354	5.00000	4.87(aAM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61806.D
Date : 18-JUN-2024 12:59
Client ID: VSTD005
Sample Info: VSTD005;VSTD005;1;5
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

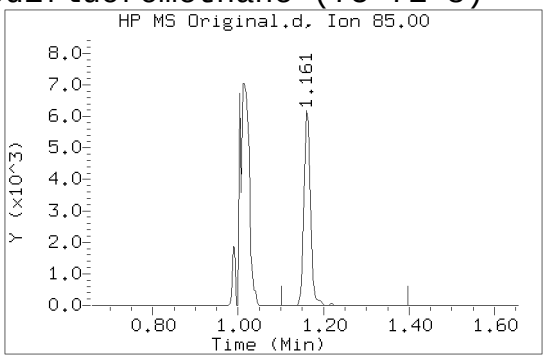
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61806.D
Inj Date : 18-JUN-2024 12:59
InstruID : VOA9.i
LabSampID : VSTD005

Dichlorodifluoromethane (75-71-8)

Reason Code:

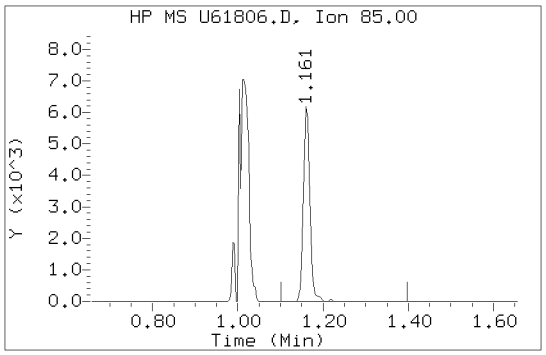
BEFORE

MASS
85
AREA
6615
HEIGHT
6190
26-Jun-2024
12:29
RUCHA
PATEL



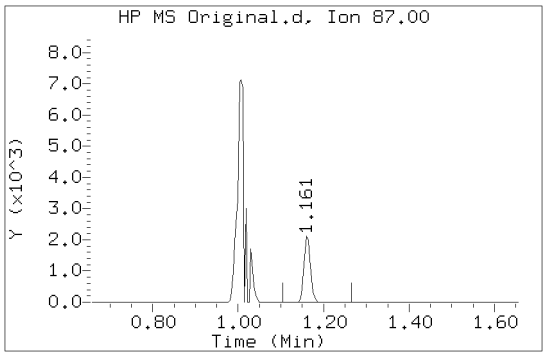
AFTER

MASS
85
AREA
6615
HEIGHT
6190
26-Jun-2024
12:29
RUCHA
PATEL



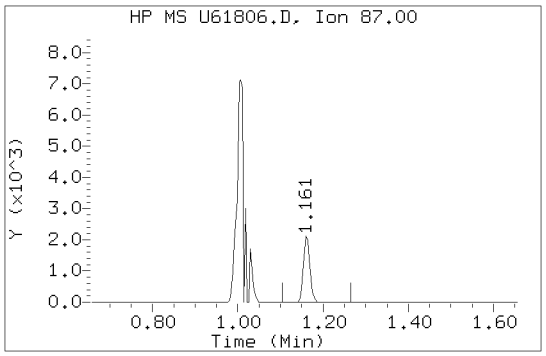
BEFORE

MASS
87
AREA
2249
HEIGHT
2117
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
87
AREA
2249
HEIGHT
2117
26-Jun-2024
12:29
RUCHA
PATEL

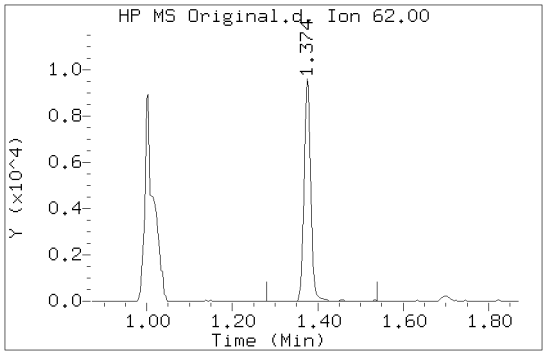


Vinyl Chloride (75-01-4)

Reason Code:

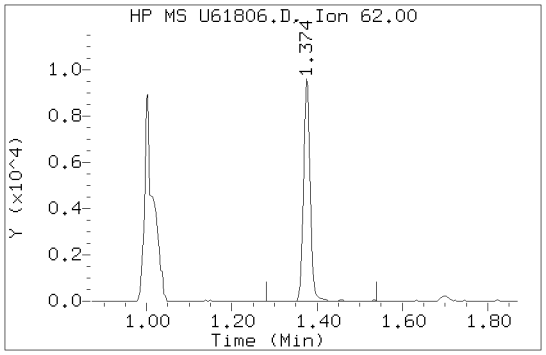
BEFORE

MASS
62
AREA
10804
HEIGHT
9607
26-Jun-2024
12:29
RUCHA
PATEL



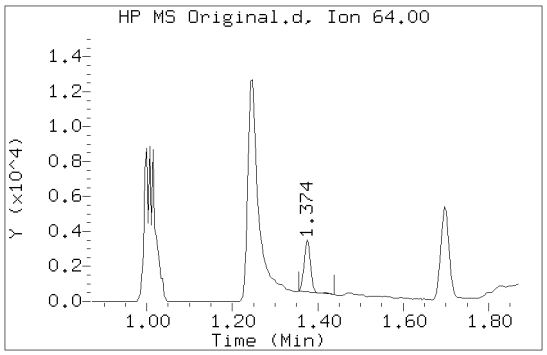
AFTER

MASS
62
AREA
10804
HEIGHT
9607
26-Jun-2024
12:29
RUCHA
PATEL



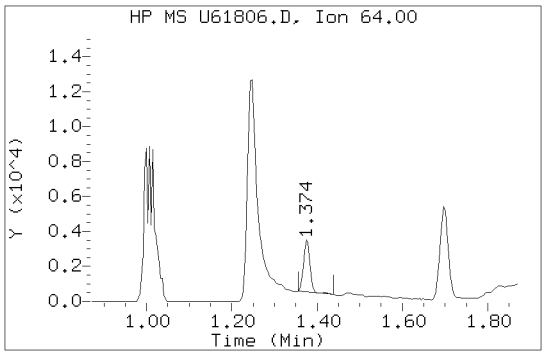
BEFORE

MASS
64
AREA
3166
HEIGHT
2958
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
64
AREA
3166
HEIGHT
2958
26-Jun-2024
12:29
RUCHA
PATEL



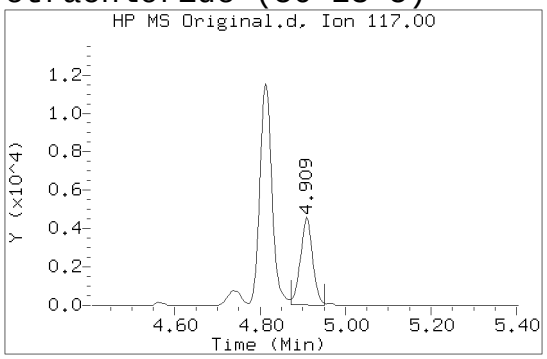
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61806.D
Inj Date : 18-JUN-2024 12:59
InstruID : VOA9.i
LabSampID : VSTD005

Carbon Tetrachloride (56-23-5)

Reason Code:

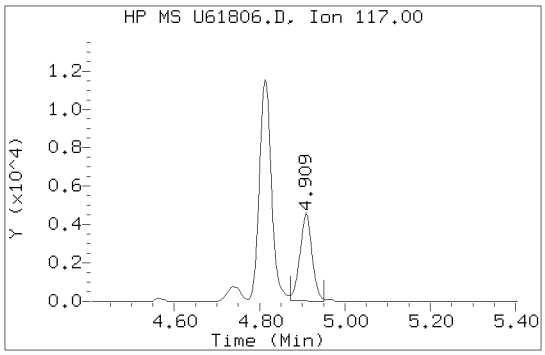
BEFORE

MASS
117
AREA
9227
HEIGHT
4595
26-Jun-2024
12:29
RUCHA
PATEL



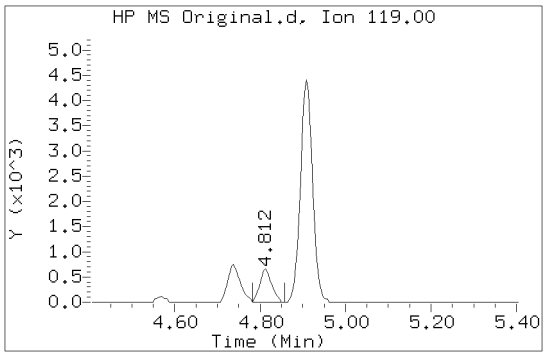
AFTER

MASS
117
AREA
9227
HEIGHT
4595
26-Jun-2024
12:29
RUCHA
PATEL



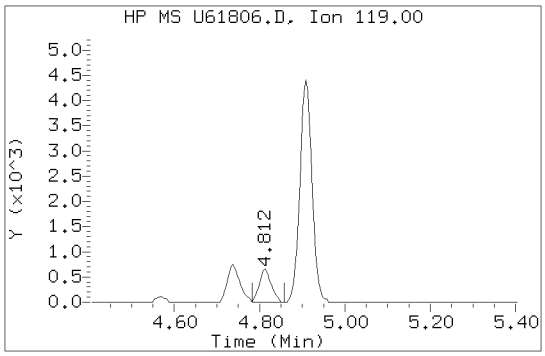
BEFORE

MASS
119
AREA
1263
HEIGHT
667
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
119
AREA
1263
HEIGHT
667
26-Jun-2024
12:29
RUCHA
PATEL

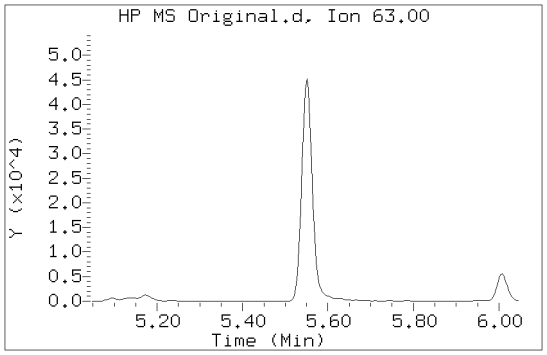


1,2-Dichloropropane (78-87-5)

Reason Code:

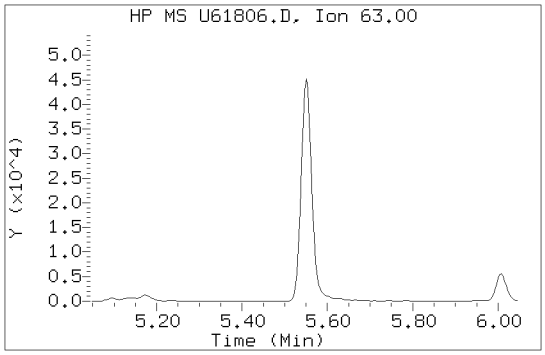
BEFORE

MASS
63
AREA
9025
HEIGHT
5544
26-Jun-2024
12:29
RUCHA
PATEL



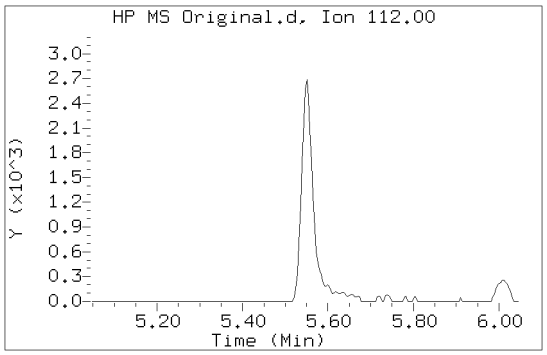
AFTER

MASS
63
AREA
9025
HEIGHT
5544
26-Jun-2024
12:29
RUCHA
PATEL



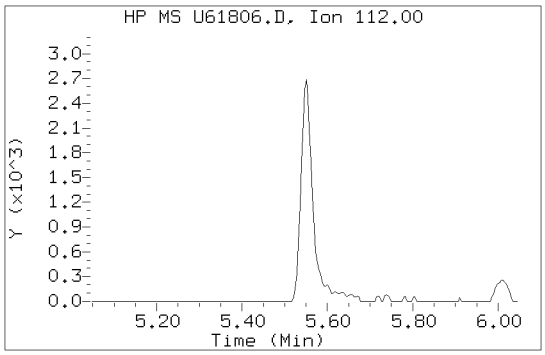
BEFORE

MASS
112
AREA
501
HEIGHT
258
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
112
AREA
501
HEIGHT
258
26-Jun-2024
12:29
RUCHA
PATEL



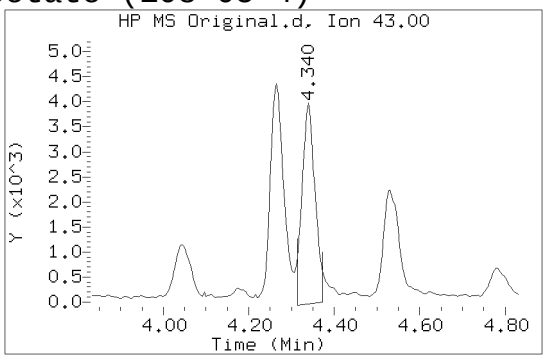
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61806.D
Inj Date : 18-JUN-2024 12:59
InstruID : VOA9.i
LabSampID : VSTD005

Vinyl Acetate (108-05-4)

Reason Code:

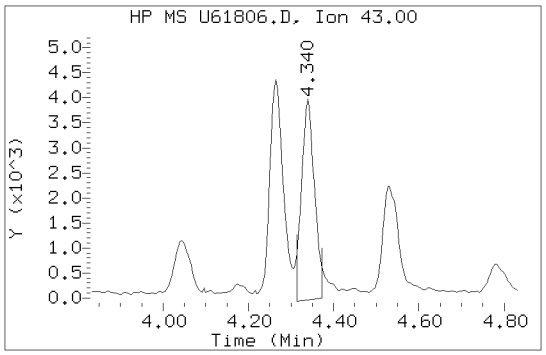
BEFORE

MASS
43
AREA
8618
HEIGHT
4016
26-Jun-2024
12:29
RUCHA
PATEL



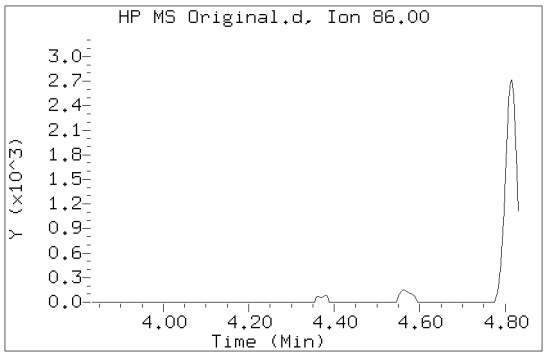
AFTER

MASS
43
AREA
8618
HEIGHT
4016
26-Jun-2024
12:29
RUCHA
PATEL



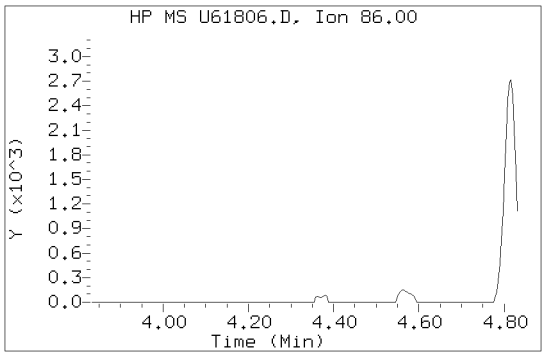
BEFORE

MASS
86
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
86
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL

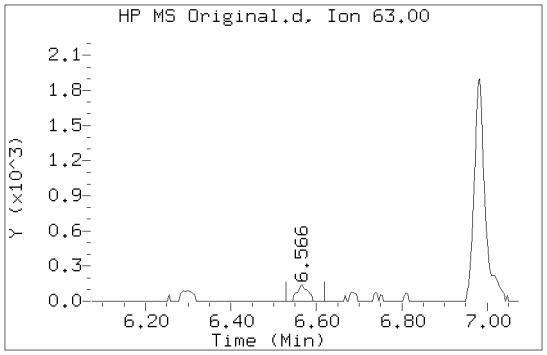


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

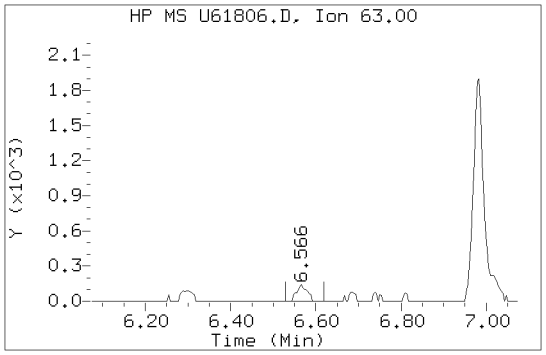
BEFORE

MASS
63
AREA
244
HEIGHT
140
26-Jun-2024
12:29
RUCHA
PATEL



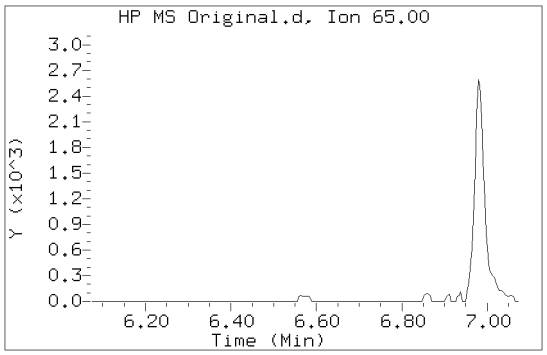
AFTER

MASS
63
AREA
244
HEIGHT
140
26-Jun-2024
12:29
RUCHA
PATEL



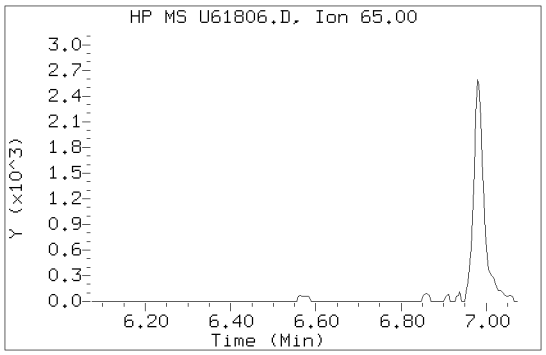
BEFORE

MASS
65
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
65
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



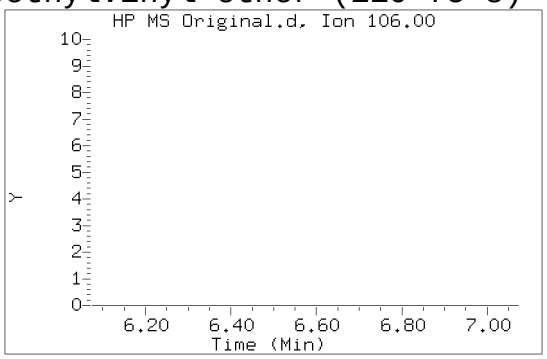
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61806.D
Inj Date : 18-JUN-2024 12:59
InstruID : VOA9.i
LabSampID : VSTD005

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

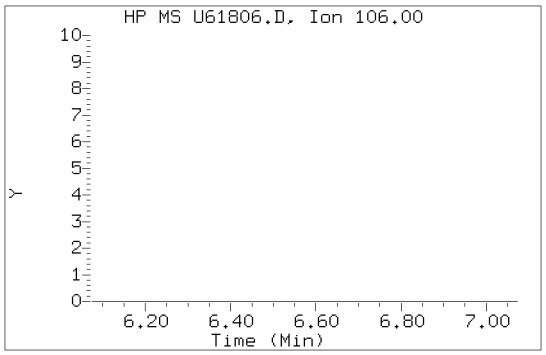
BEFORE

MASS
106
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
106
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL

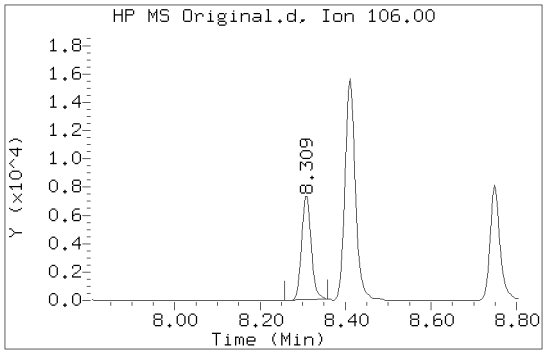


Ethylbenzene (100-41-4)

Reason Code:

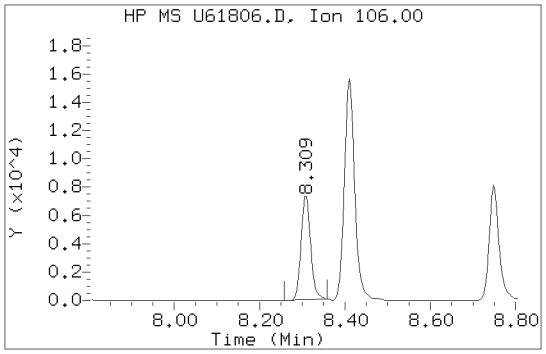
BEFORE

MASS
106
AREA
11718
HEIGHT
7313
26-Jun-2024
12:29
RUCHA
PATEL



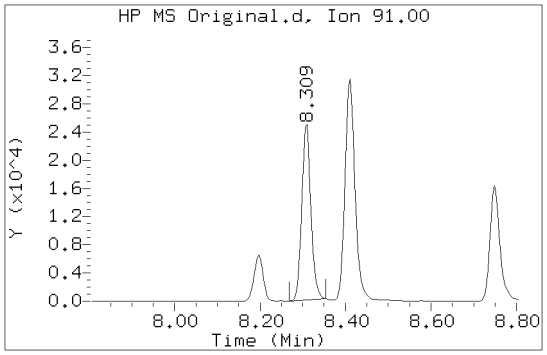
AFTER

MASS
106
AREA
11718
HEIGHT
7313
26-Jun-2024
12:29
RUCHA
PATEL



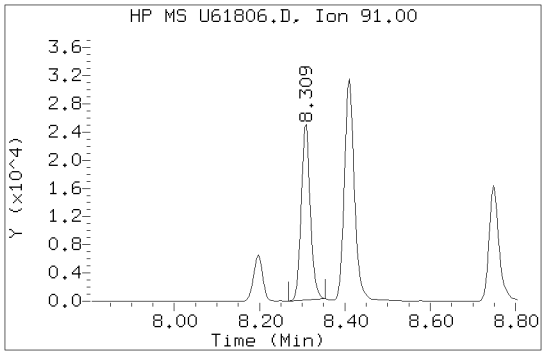
BEFORE

MASS
91
AREA
37794
HEIGHT
24902
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
91
AREA
37794
HEIGHT
24902
26-Jun-2024
12:29
RUCHA
PATEL

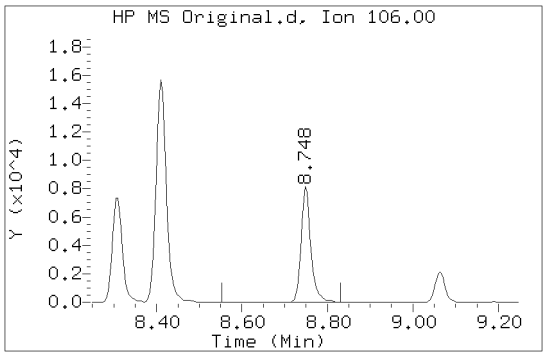


o-Xylene (95-47-6)

Reason Code:

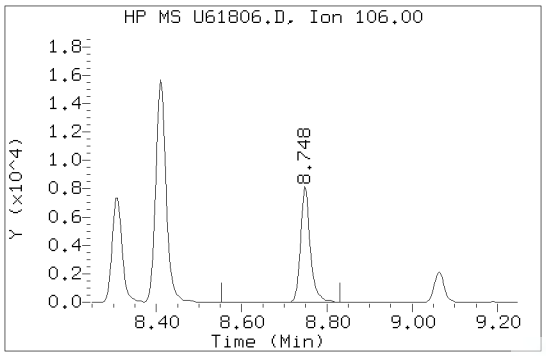
BEFORE

MASS
106
AREA
13102
HEIGHT
8140
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
106
AREA
13102
HEIGHT
8140
26-Jun-2024
12:29
RUCHA
PATEL

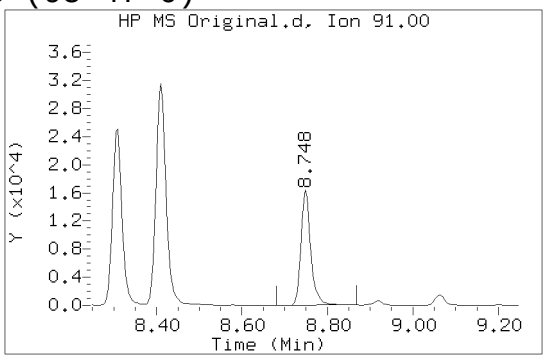


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61806.D
Inj Date : 18-JUN-2024 12:59
InstruID : VOA9.i
LabSampID : VSTD005

o-Xylene (95-47-6)

BEFORE

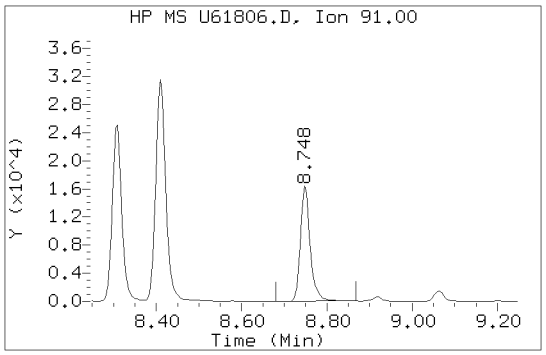
MASS
91
AREA
26400
HEIGHT
16355
26-Jun-2024
12:29
RUCHA
PATEL



Reason Code:

AFTER

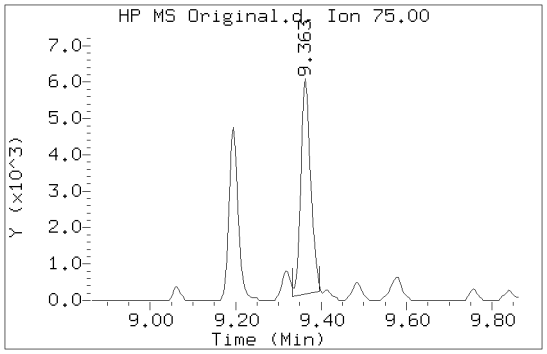
MASS
91
AREA
26400
HEIGHT
16355
26-Jun-2024
12:29
RUCHA
PATEL



1,2,3-Trichloropropane (96-18-4)

BEFORE

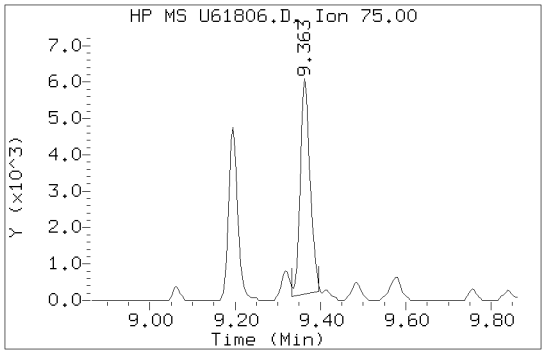
MASS
75
AREA
9684
HEIGHT
5924
26-Jun-2024
12:29
RUCHA
PATEL



Reason Code:

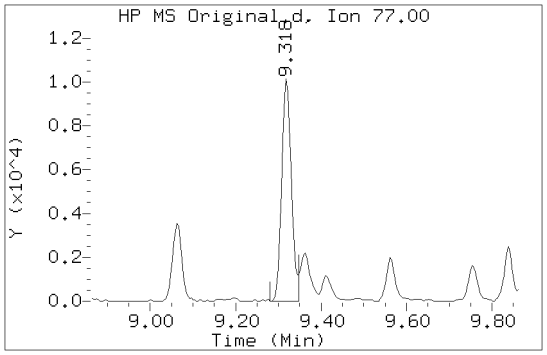
AFTER

MASS
75
AREA
9684
HEIGHT
5924
26-Jun-2024
12:29
RUCHA
PATEL



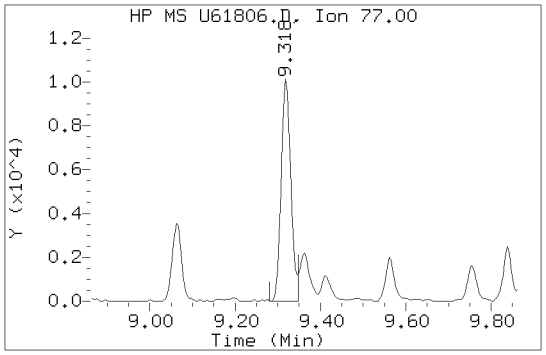
BEFORE

MASS
77
AREA
16078
HEIGHT
10137
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

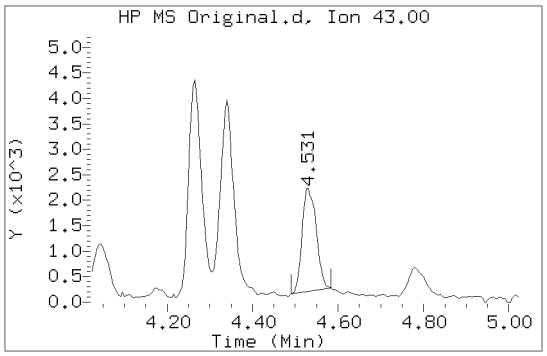
MASS
77
AREA
16078
HEIGHT
10137
26-Jun-2024
12:29
RUCHA
PATEL



Ethyl Acetate (141-78-6)

BEFORE

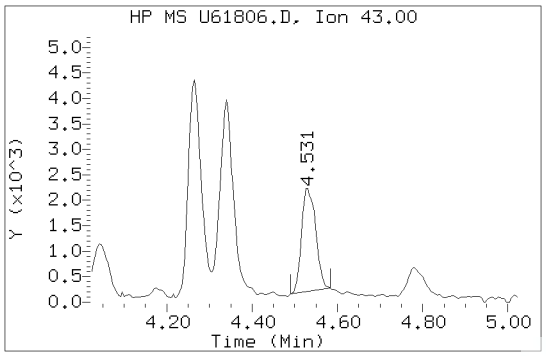
MASS
43
AREA
4685
HEIGHT
2024
26-Jun-2024
12:29
RUCHA
PATEL



Reason Code:

AFTER

MASS
43
AREA
4685
HEIGHT
2024
26-Jun-2024
12:29
RUCHA
PATEL

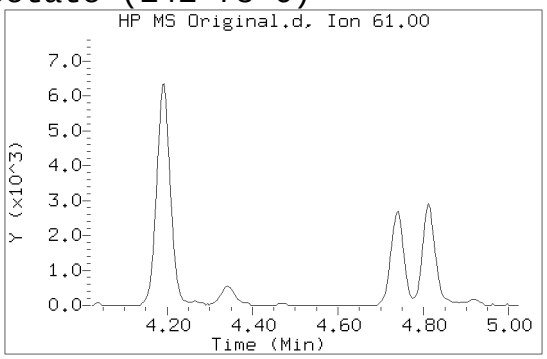


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61806.D
Inj Date : 18-JUN-2024 12:59
InstruID : VOA9.i
LabSampID : VSTD005

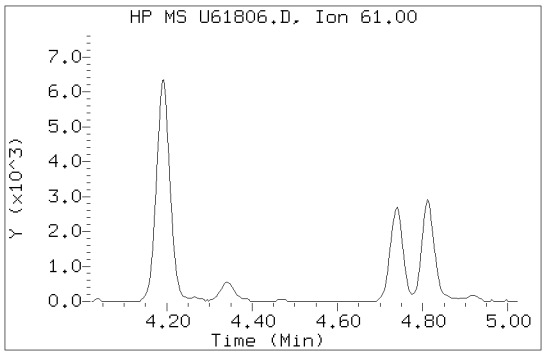
Ethyl Acetate (141-78-6)

Reason Code:

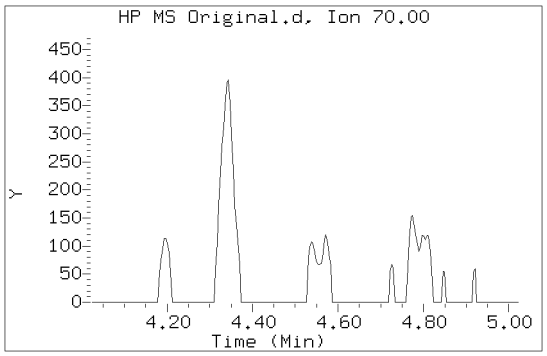
BEFORE
MASS
61
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



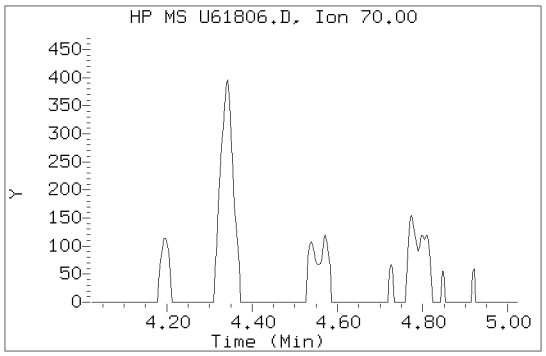
AFTER
MASS
61
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



BEFORE
MASS
70
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



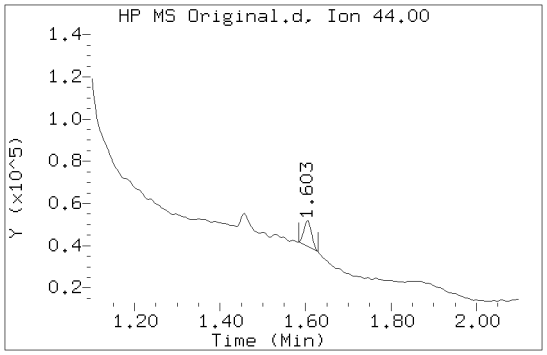
AFTER
MASS
70
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



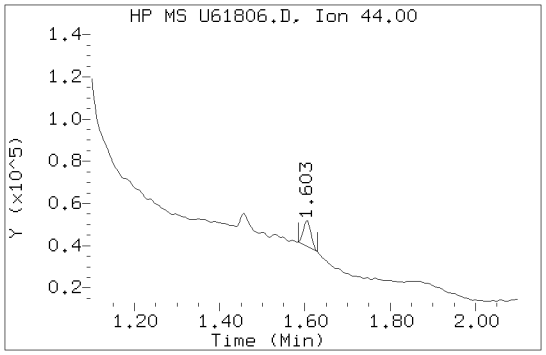
Ethylene oxide (75-21-8)

Reason Code:

BEFORE
MASS
44
AREA
15657
HEIGHT
12012
26-Jun-2024
12:29
RUCHA
PATEL



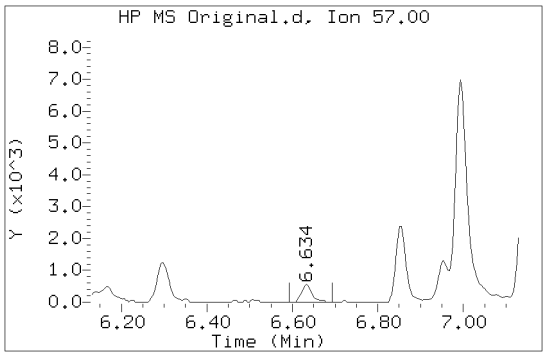
AFTER
MASS
44
AREA
15657
HEIGHT
12012
26-Jun-2024
12:29
RUCHA
PATEL



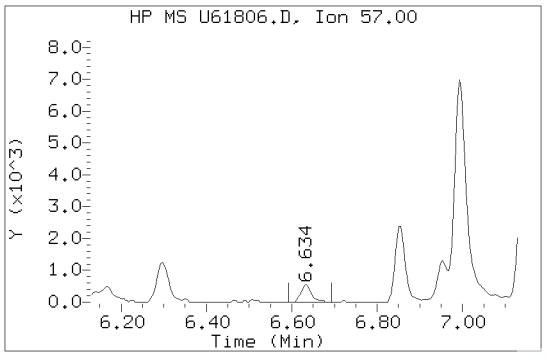
Epichlorohydrin (106-89-8)

Reason Code:

BEFORE
MASS
57
AREA
955
HEIGHT
559
26-Jun-2024
12:29
RUCHA
PATEL



AFTER
MASS
57
AREA
955
HEIGHT
559
26-Jun-2024
12:29
RUCHA
PATEL



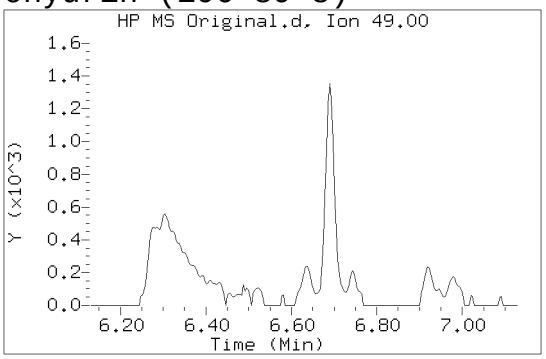
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61806.D
Inj Date : 18-JUN-2024 12:59
InstruID : VOA9.i
LabSampID : VSTD005

Epichlorohydrin (106-89-8)

Reason Code:

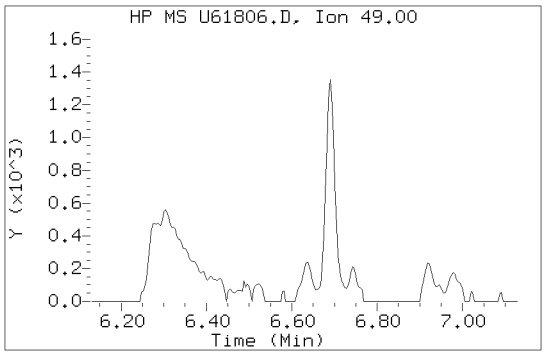
BEFORE

MASS
49
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
49
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL

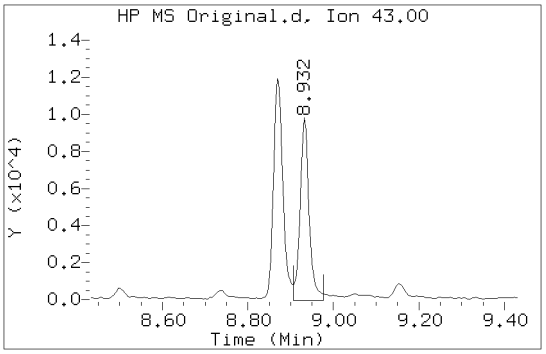


n-Amyl acetate (628-63-7)

Reason Code:

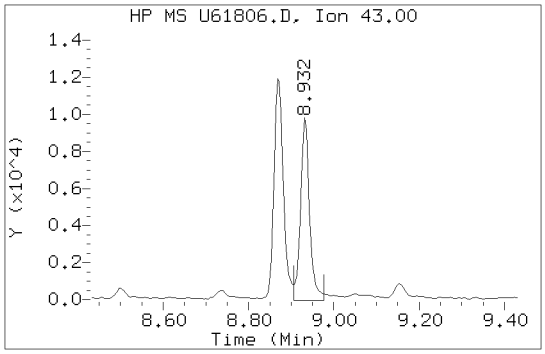
BEFORE

MASS
43
AREA
14831
HEIGHT
9849
26-Jun-2024
12:29
RUCHA
PATEL



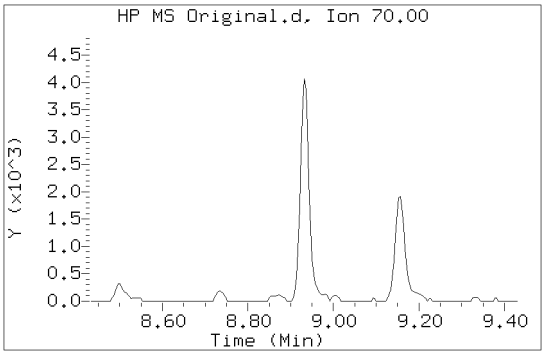
AFTER

MASS
43
AREA
14831
HEIGHT
9849
26-Jun-2024
12:29
RUCHA
PATEL



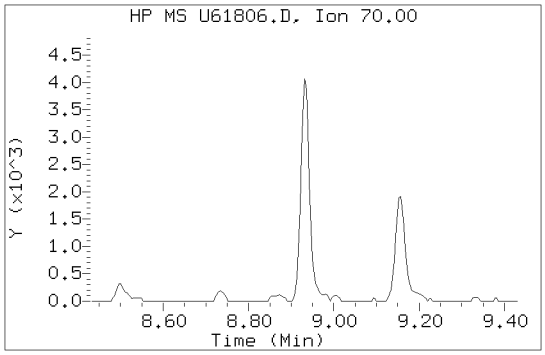
BEFORE

MASS
70
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



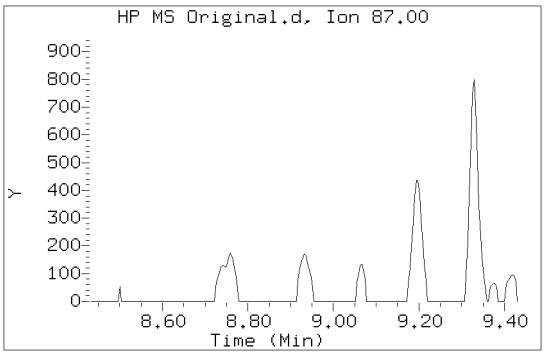
AFTER

MASS
70
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



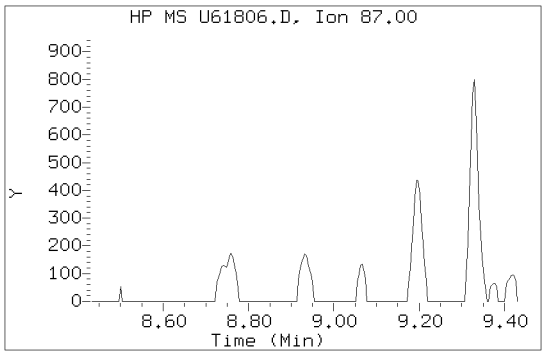
BEFORE

MASS
87
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
87
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



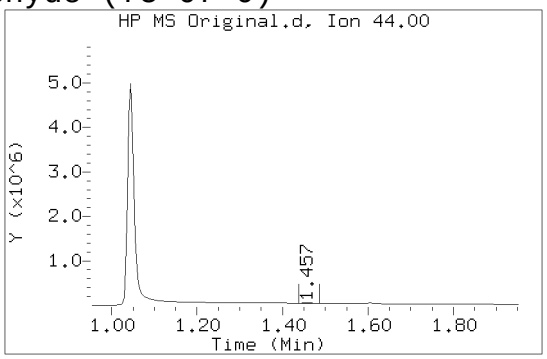
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61806.D
Inj Date : 18-JUN-2024 12:59
InstruID : VOA9.i
LabSampID : VSTD005

Acetaldehyde (75-07-0)

Reason Code:

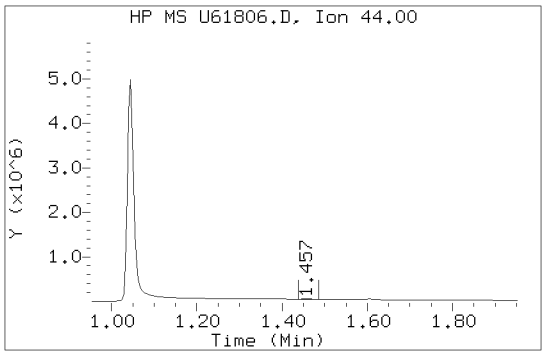
BEFORE

MASS
44
AREA
9293
HEIGHT
7359
26-Jun-2024
12:29
RUCHA
PATEL



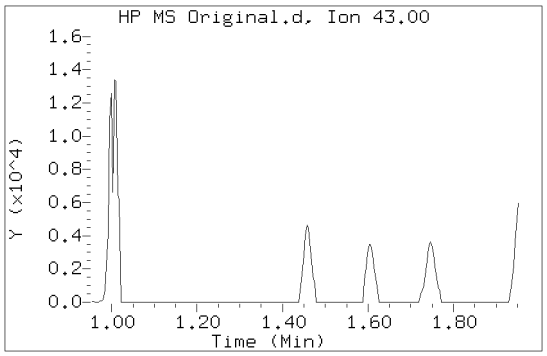
AFTER

MASS
44
AREA
9293
HEIGHT
7359
26-Jun-2024
12:29
RUCHA
PATEL



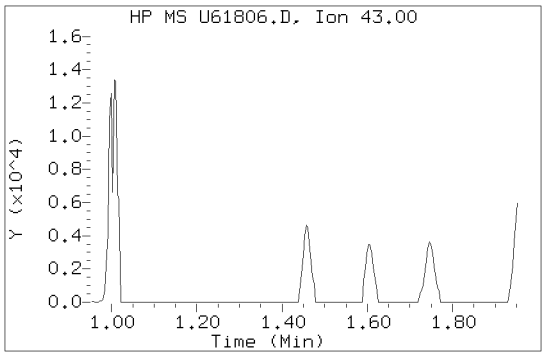
BEFORE

MASS
43
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



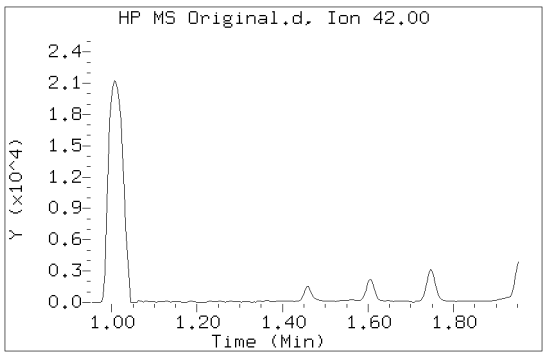
AFTER

MASS
43
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



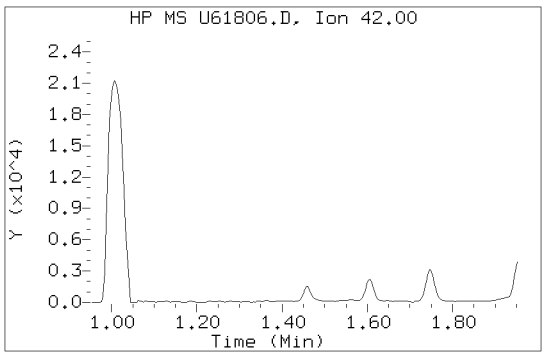
BEFORE

MASS
42
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
42
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL

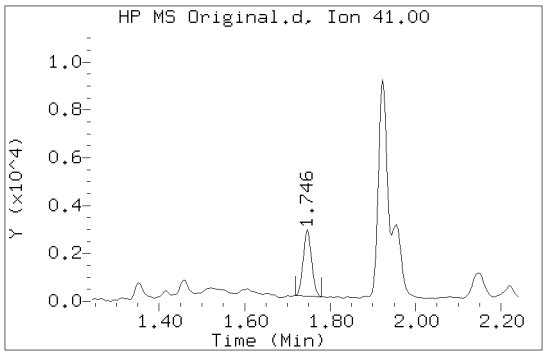


Isobutylene (115-11-7)

Reason Code:

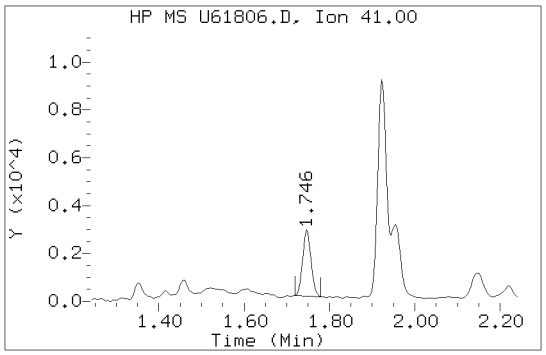
BEFORE

MASS
41
AREA
3863
HEIGHT
2770
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
41
AREA
3863
HEIGHT
2770
26-Jun-2024
12:29
RUCHA
PATEL



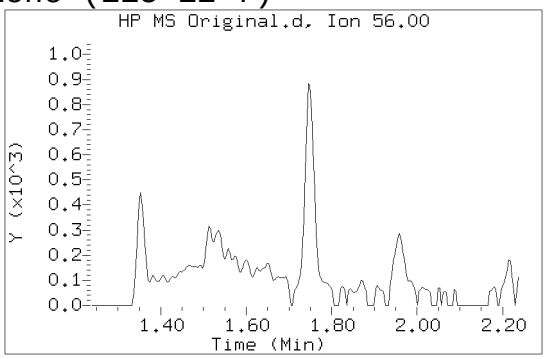
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61806.D
Inj Date : 18-JUN-2024 12:59
InstruID : VOA9.i
LabSampID : VSTD005

Isobutylene (115-11-7)

Reason Code:

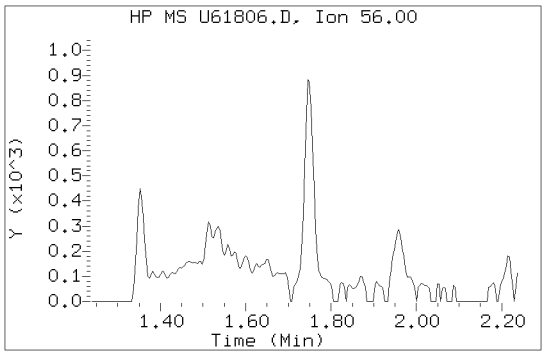
BEFORE

MASS
56
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



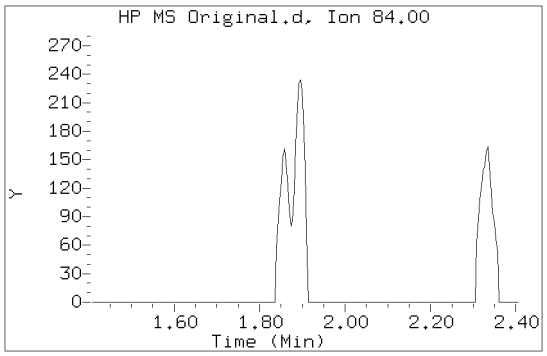
AFTER

MASS
56
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



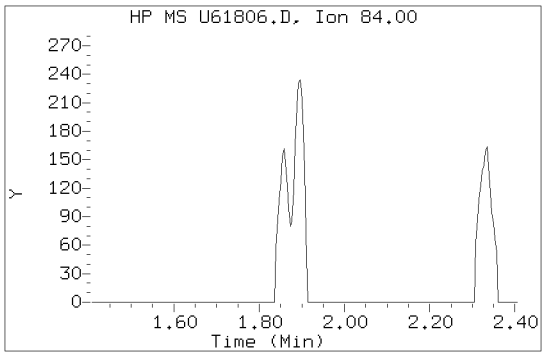
BEFORE

MASS
84
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
84
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL

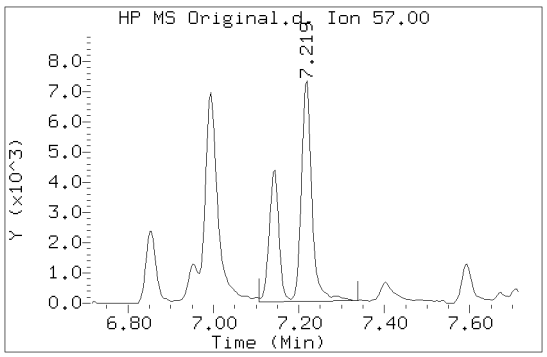


sec-Butyl Ether (6863-58-7)

Reason Code:

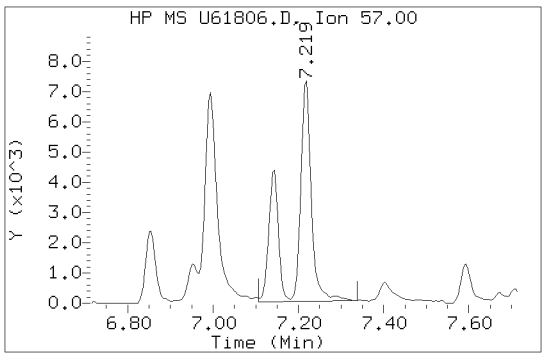
BEFORE

MASS
57
AREA
19597
HEIGHT
7289
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
57
AREA
19597
HEIGHT
7289
26-Jun-2024
12:29
RUCHA
PATEL

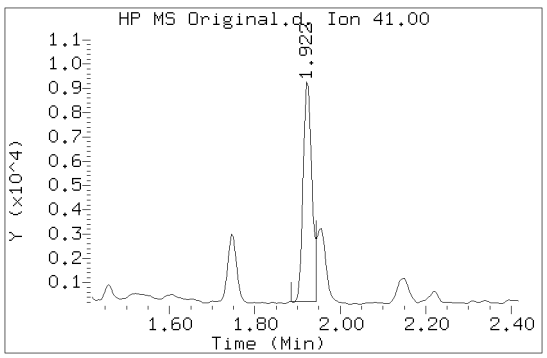


2-Chloropropene (557-98-2)

Reason Code:

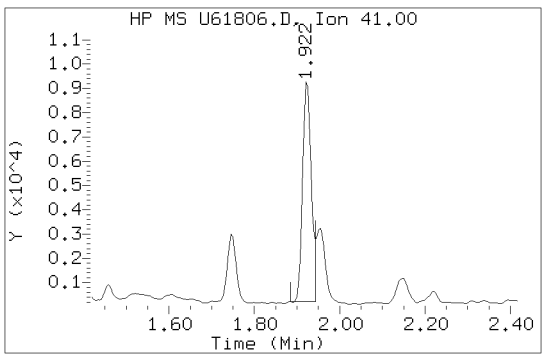
BEFORE

MASS
41
AREA
13354
HEIGHT
9059
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
41
AREA
13354
HEIGHT
9059
26-Jun-2024
12:29
RUCHA
PATEL



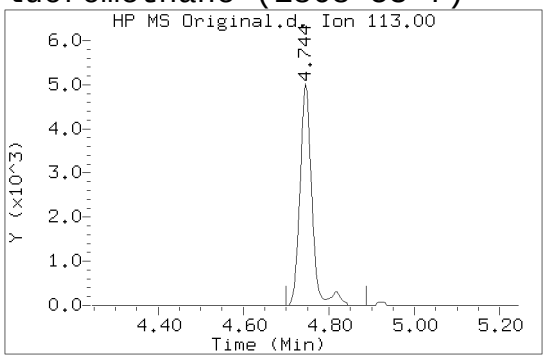
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61806.D
Inj Date : 18-JUN-2024 12:59
InstruID : VOA9.i
LabSampID : VSTD005

Dibromofluoromethane (1868-53-7)

Reason Code:

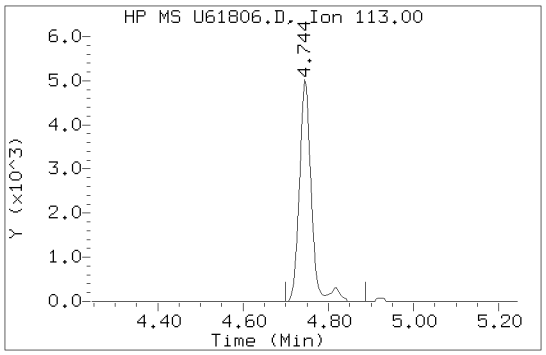
BEFORE

MASS
113
AREA
9956
HEIGHT
5024
26-Jun-2024
12:29
RUCHA
PATEL



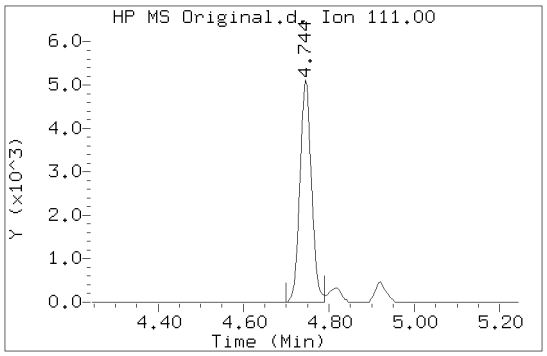
AFTER

MASS
113
AREA
9956
HEIGHT
5024
26-Jun-2024
12:29
RUCHA
PATEL



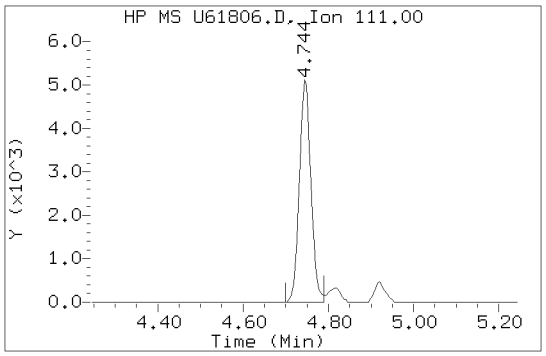
BEFORE

MASS
111
AREA
9808
HEIGHT
5117
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
111
AREA
9808
HEIGHT
5117
26-Jun-2024
12:29
RUCHA
PATEL

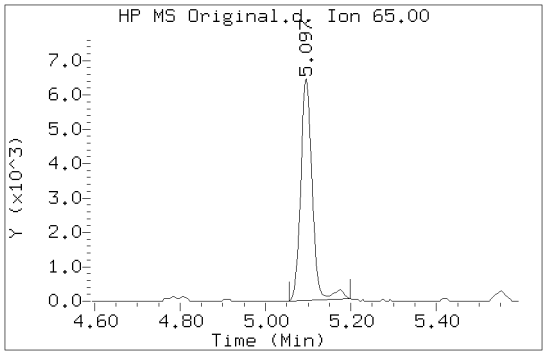


1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

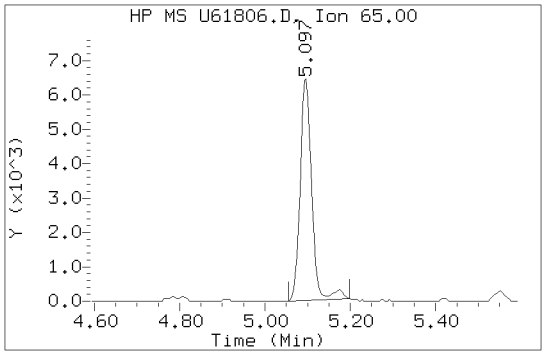
BEFORE

MASS
65
AREA
12333
HEIGHT
6445
26-Jun-2024
12:29
RUCHA
PATEL



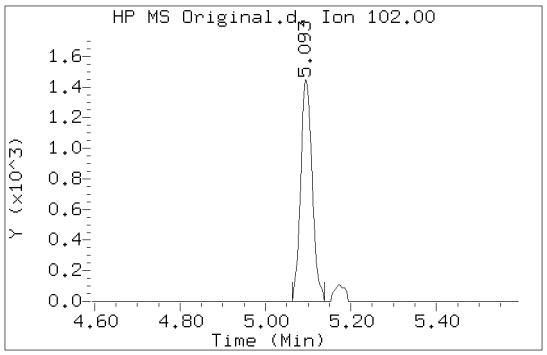
AFTER

MASS
65
AREA
12333
HEIGHT
6445
26-Jun-2024
12:29
RUCHA
PATEL



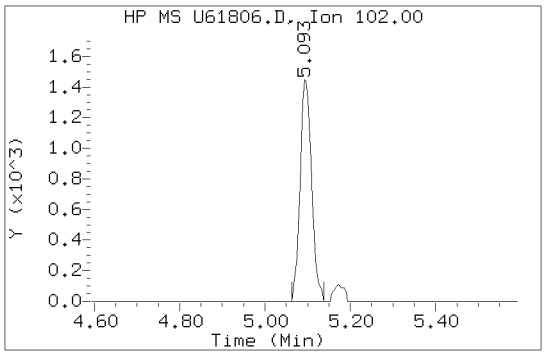
BEFORE

MASS
102
AREA
2757
HEIGHT
1448
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
102
AREA
2757
HEIGHT
1448
26-Jun-2024
12:29
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61807.D Page 1
Report Date: 26-Jun-2024 12:30

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61807.D
Lab Smp Id: VSTD020 Client Smp ID: VSTD020
Inj Date : 18-JUN-2024 13:21
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD020;VSTD020;1;6
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240618.b\8260C.m
Meth Date : 26-Jun-2024 12:30 VOA9.i Quant Type: ISTD
Cal Date : 18-JUN-2024 12:59 Cal File: U61806.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.811	4.811	(1.000)	274269	50.0000	
2 Dichlorodifluoromethane	85	1.156	1.156	(0.240)	27027	20.0000	18.97(M)
3 Chloromethane	50	1.287	1.287	(0.268)	85328	20.0000	18.79
4 Propionitrile	54	4.331	4.331	(0.900)	50966	200.000	208.97(a)
5 Vinyl Chloride	62	1.370	1.370	(0.285)	41000	20.0000	19.30(M)
6 Bromomethane	94	1.610	1.610	(0.335)	15463	20.0000	20.33
7 Chloroethane	64	1.692	1.692	(0.352)	28183	20.0000	19.04
8 Trichlorofluoromethane	101	1.887	1.887	(0.392)	50626	20.0000	19.91
9 Acrolein	56	2.254	2.254	(0.469)	3733	40.0000	39.37
10 Acetone	43	2.397	2.397	(0.498)	27578	40.0000	38.03
11 1,1-Dichloroethene	96	2.326	2.326	(0.483)	30151	20.0000	19.65
12 Isobutyl Alcohol	43	5.280	5.280	(1.097)	93233	400.000	375.84(a)
13 Acetonitrile	39	2.663	2.663	(0.554)	42918	200.000	205.95(a)
14 Allyl Chloride	41	2.663	2.663	(0.554)	100087	20.0000	20.76(a)
15 Iodomethane	142	2.457	2.457	(0.511)	7122	40.0000	37.27
16 Acrylonitrile	53	3.057	3.057	(0.635)	26987	40.0000	41.36
17 Methylene Chloride	84	2.787	2.787	(0.579)	40099	20.0000	19.46
18 Methyl tert-butyl ether	73	3.072	3.072	(0.638)	95786	20.0000	20.83
19 Carbon Disulfide	76	2.513	2.513	(0.522)	167498	40.0000	37.76
20 trans-1,2-Dichloroethene	96	3.049	3.049	(0.634)	32916	20.0000	19.12

21 Vinyl Acetate	43	4.335	4.335 (0.901)	33930	40.0000	37.35
22 1,1-Dichloroethane	63	3.507	3.507 (0.729)	62082	20.0000	19.29

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.600	3.600	(0.748)	49600	20.0000	17.89
	24 2-Butanone	43	4.256	4.256	(0.885)	32984	40.0000	36.38
	25 Methacrylonitrile	41	4.489	4.489	(0.933)	22421	20.0000	20.58(a)
	26 2,2-Dichloropropane	77	4.174	4.174	(0.868)	45167	20.0000	18.67
	27 cis-1,2-Dichloroethene	96	4.189	4.189	(0.871)	38669	20.0000	19.39
	28 Chloroform	83	4.567	4.567	(0.949)	62687	20.0000	19.01
	29 Bromochloromethane	128	4.462	4.462	(0.928)	19294	20.0000	18.98
$	30 Dibromofluoromethane	113	4.744	4.744	(0.986)	33804	20.0000	19.37
	31 1,1,1-Trichloroethane	97	4.736	4.736	(0.984)	48797	20.0000	18.67
	32 1,1-Dichloropropene	75	4.916	4.916	(0.886)	46121	20.0000	17.78
	33 1,2-Dichloroethane	62	5.171	5.171	(0.932)	49240	20.0000	19.15
	34 Carbon Tetrachloride	117	4.905	4.905	(0.884)	38785	20.0000	17.80(M)
$	35 1,2-Dichloroethane-d4	65	5.092	5.092	(1.058)	42721	20.0000	20.50(M)
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	400078	50.0000	
	37 Benzene	78	5.133	5.133	(0.925)	143667	20.0000	19.08
	38 Trichloroethene	130	5.786	5.786	(1.043)	36654	20.0000	19.00
	39 Bromodichloromethane	83	6.273	6.273	(1.130)	40772	20.0000	18.08
	40 Methyl Methacrylate	41	5.819	5.819	(1.210)	12581	20.0000	19.88(a)
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	1281	40.0000	33.85(M)
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	37899	20.0000	19.05(M)
	43 2-Nitropropane	43	6.505	6.505	(1.352)	8439	20.0000	18.91
	44 Dibromomethane	93	6.116	6.116	(1.102)	22080	20.0000	18.57
	45 4-Methyl-2-Pentanone	43	6.850	6.850	(0.837)	65616	40.0000	35.27
	46 cis-1,3-Dichloropropene	75	6.689	6.689	(1.205)	49183	20.0000	17.70
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	372288	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	127387	20.0000	19.78
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	47730	20.0000	20.29(a)
	50 Toluene	91	6.978	6.978	(0.853)	151246	20.0000	18.97
	51 trans-1,3-Dichloropropene	75	7.195	7.195	(1.297)	39484	20.0000	17.46
	52 2-Hexanone	43	7.214	7.214	(0.881)	73239	40.0000	42.43
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	28645	20.0000	19.48
	54 1,3-Dichloropropane	76	7.495	7.495	(0.916)	59253	20.0000	18.53
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	30714	20.0000	17.47
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	29964	20.0000	18.80
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	31771	20.0000	18.44
	58 1-Chlorohexane	55	8.196	8.196	(1.477)	29680	20.0000	19.35
	59 Chlorobenzene	112	8.207	8.207	(1.003)	98944	20.0000	18.96
	60 1,1,1,2-Tetrachloroethane	131	8.282	8.282	(1.012)	32136	20.0000	17.73
	61 Ethylbenzene	106	8.305	8.305	(1.015)	47862	20.0000	18.66(M)
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	121789	40.0000	39.76
	63 o-Xylene	106	8.747	8.747	(1.069)	58107	20.0000	19.32(M)
	64 Styrene	104	8.762	8.762	(1.071)	92229	20.0000	17.93
	66 Bromoform	173	8.920	8.920	(1.090)	18302	20.0000	16.68
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	153649	20.0000	19.46
	68 1,1,2,2-Tetrachloroethane	83	9.328	9.328	(0.917)	45009	20.0000	18.70
$	69 4-Bromofluorobenzene	95	9.193	9.193	(1.123)	48628	20.0000	19.73
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	206557	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	42156	20.0000	18.42(M)
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	8925	20.0000	18.10(a)
	73 n-Propylbenzene	91	9.414	9.414	(0.926)	172179	20.0000	19.20
	74 Bromobenzene	156	9.317	9.317	(0.916)	43652	20.0000	19.17
	75 1,3,5-Trimethylbenzene	105	9.564	9.564	(0.940)	103981	20.0000	17.95

76	2-Chlorotoluene	91	9.482	9.482 (0.932)	109655	20.0000	19.05
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	123990	20.0000	18.97

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61807.D Page 3
Report Date: 26-Jun-2024 12:30

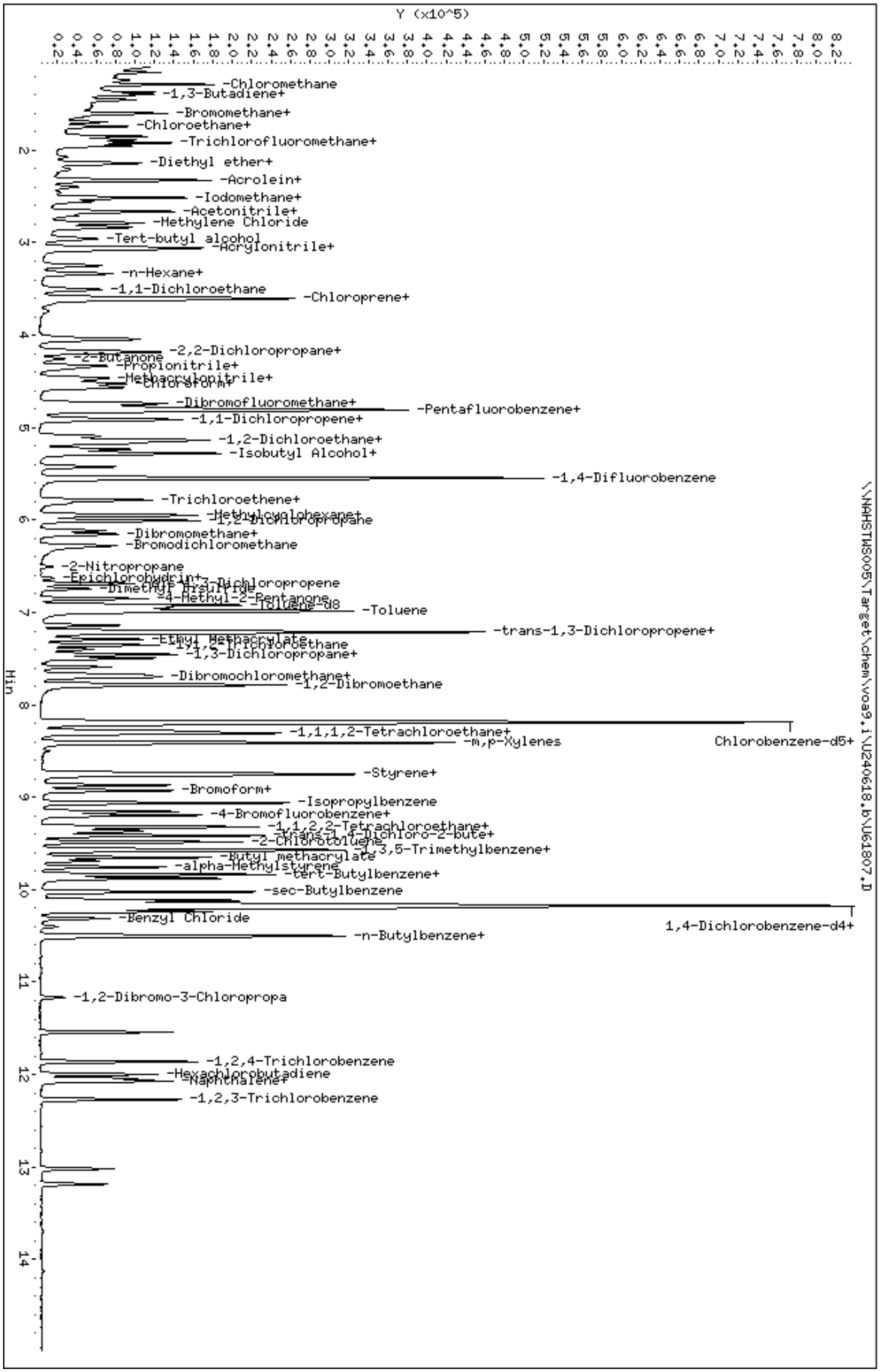
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.838	9.838	(0.967)	109413	20.0000	19.66
79	1,2,4-Trimethylbenzene	105	9.879	9.879	(0.971)	94983	20.0000	16.71
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	140094	20.0000	19.04
82	p-Isopropyltoluene	119	10.149	10.149	(0.998)	110580	20.0000	17.85
83	1,3-Dichlorobenzene	146	10.115	10.115	(0.994)	78224	20.0000	19.31
84	1,4-Dichlorobenzene	146	10.190	10.190	(1.002)	81178	20.0000	19.21
86	Benzyl Chloride	91	10.310	10.310	(1.260)	47026	20.0000	17.74
87	n-Butylbenzene	91	10.494	10.494	(1.032)	103636	20.0000	18.26
88	1,2-Dichlorobenzene	146	10.505	10.505	(1.033)	76689	20.0000	19.23
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	4971	20.0000	17.34
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	48403	20.0000	18.58
91	Hexachlorobutadiene	225	12.001	12.001	(1.180)	21653	20.0000	18.96
92	Naphthalene	128	12.069	12.069	(1.186)	92506	20.0000	16.75
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	43590	20.0000	18.46
146	Methyl acetate	43	2.704	2.704	(0.562)	26684	20.0000	18.04
138	Freon TF	101	2.326	2.326	(0.483)	29777	20.0000	19.85
141	Cyclohexane	56	4.777	4.777	(0.993)	51904	20.0000	19.57
142	Tetrahydrofuran	42	4.534	4.534	(0.942)	13928	40.0000	42.79
147	Methylcyclohexane	55	5.943	5.943	(1.071)	81469	20.0000	18.52
135	1,4-Dioxane	88	6.164	6.164	(1.281)	10034	400.000	437.40
132	n-Butanol	56	5.819	5.819	(1.210)	17825	400.000	393.43(a)
136	n-Hexane	57	3.334	3.334	(0.693)	36437	20.0000	20.20
139	Diethyl ether	59	2.134	2.134	(0.444)	28505	20.0000	21.17
148	Tert-butyl alcohol	59	2.959	2.959	(0.615)	62858	400.000	427.04
149	Isopropyl alcohol	45	2.554	2.554	(0.531)	48136	400.000	420.35(T)
156	Diisopropyl ether	45	3.611	3.611	(0.751)	122488	20.0000	20.67(T)
162	Butyl acrylate	55	8.732	8.732	(1.067)	62932	20.0000	20.90
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	154587	20.0000	20.37
166	1,2,3-Trimethylbenzene	105	10.235	10.235	(1.006)	89707	20.0000	17.91
167	Ethanol	45	2.071	2.071	(0.430)	10168	400.000	427.41
172	tert-Butyl formate	59	5.235	5.235	(1.088)	55984	40.0000	40.40(M)
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	263937	400.000	398.54
140	1,3-Butadiene	54	1.396	1.396	(0.290)	16614	20.0000	17.88
182	Epichlorohydrin	57	6.629	6.629	(1.195)	3929	80.0000	67.98
M 94	1,2-Dichloroethylene (total)	96				71585	40.0000	(a)
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	35720	20.0000	16.72
130	Ethyl Acetate	43	4.526	4.526	(0.941)	18504	20.0000	21.04(M)
131	Methyl Acrylate	55	4.361	4.361	(0.907)	41019	20.0000	20.55
189	n-Butyl acetate	43	7.705	7.705	(0.941)	49951	20.0000	18.33
134	Cyclohexanone	55	9.152	9.152	(0.900)	54601	400.000	419.58(a)
185	Isoprene	39	2.146	2.146	(0.446)	7802	20.0000	18.75
188	Isopropyl acetate	43	5.280	5.280	(0.951)	93485	20.0000	19.03
150	Allyl alcohol	57	3.334	3.334	(0.693)	36437	400.000	404.09
194	Acetaldehyde	44	1.452	1.452	(0.302)	30594	80.0000	70.47(M)
200	Dimethyl Disulfide	94	6.742	6.742	(0.824)	20556	20.0000	18.14
202	Isobutylene	41	1.741	1.741	(0.362)	16809	20.0000	20.99(M)
133	Ethyl Acrylate	55	5.943	5.943	(1.235)	81469	20.0000	18.33
163	Butyl methacrylate	41	9.651	9.651	(0.949)	45736	20.0000	23.99
159	Propylene oxide	43	2.194	2.194	(0.456)	5053	40.0000	42.84
178	Ethylene oxide	44	1.598	1.598	(0.332)	58646	40.0000	39.02(M)
203	2-Ethylhexyl Acrylate	55	12.042	12.042	(1.184)	32713	20.0000	17.12
204	Tetrahydrothiophene	60	7.671	7.671	(0.937)	39650	20.0000	20.53(A)

205 sec-Butyl Ether	57	7.214	7.214 (0.881)	77842	20.0000	21.41(AM)
187 n-Amyl acetate	43	8.931	8.931 (1.091)	58923	20.0000	19.99

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
206 2-Chloropropene	41	1.917	1.917	(0.399)	56143	20.0000	20.30(AM)

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa9,i\U240618,b\U61807.D
Date : 18-JUN-2024 13:21
Client ID: VSTD020
Sample Info: VSTD020;VSTD020;1;6
Purge Volume: 5.0
Column phase: DB624

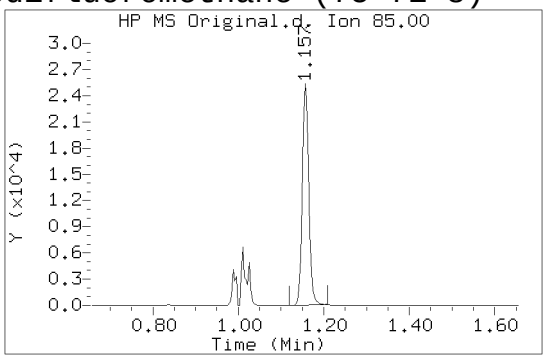
Instrument: VOA9,i
Operator: TS
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61807.D
Inj Date : 18-JUN-2024 13:21
InstruID : VOA9.i
LabSampID : VSTD020

Dichlorodifluoromethane (75-71-8)

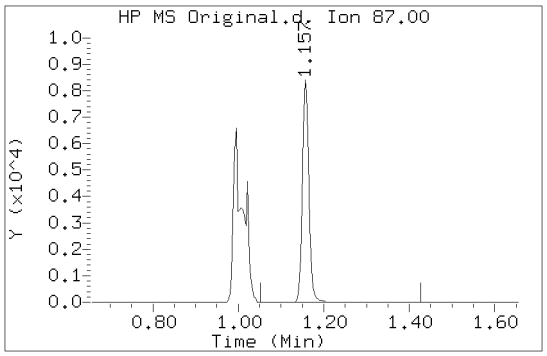
BEFORE

MASS
85
AREA
27027
HEIGHT
25339
26-Jun-2024
12:29
RUCHA
PATEL



BEFORE

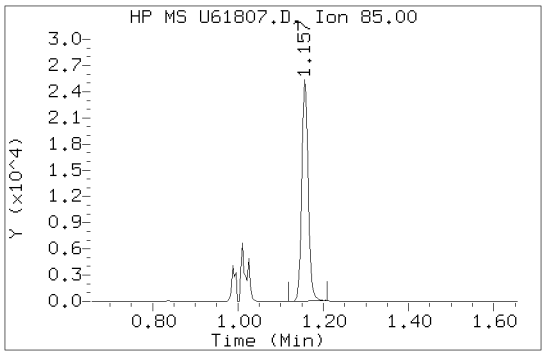
MASS
87
AREA
9006
HEIGHT
8408
26-Jun-2024
12:29
RUCHA
PATEL



Reason Code:

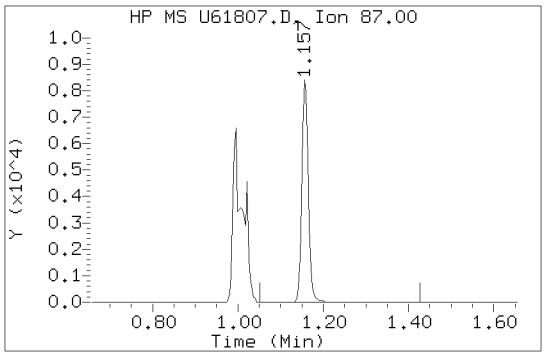
AFTER

MASS
85
AREA
27027
HEIGHT
25339
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

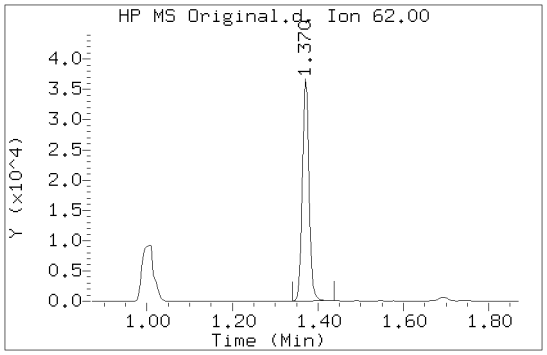
MASS
87
AREA
9006
HEIGHT
8408
26-Jun-2024
12:29
RUCHA
PATEL



Vinyl Chloride (75-01-4)

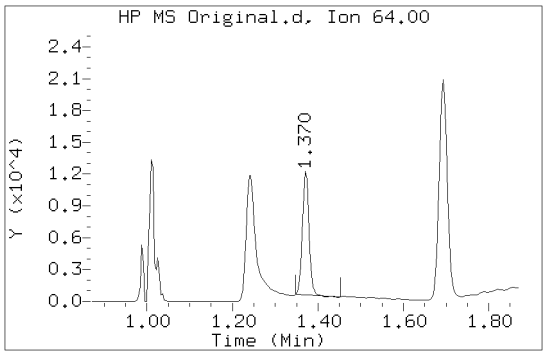
BEFORE

MASS
62
AREA
41000
HEIGHT
36693
26-Jun-2024
12:29
RUCHA
PATEL



BEFORE

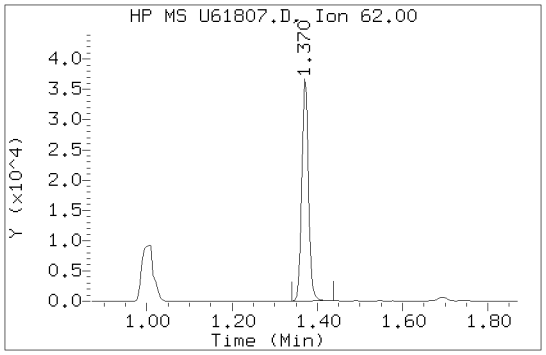
MASS
64
AREA
12756
HEIGHT
11682
26-Jun-2024
12:29
RUCHA
PATEL



Reason Code:

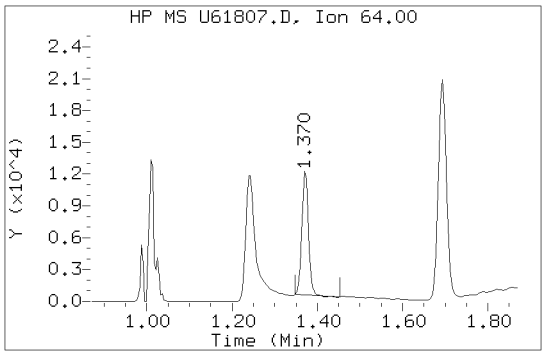
AFTER

MASS
62
AREA
41000
HEIGHT
36693
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
64
AREA
12756
HEIGHT
11682
26-Jun-2024
12:29
RUCHA
PATEL

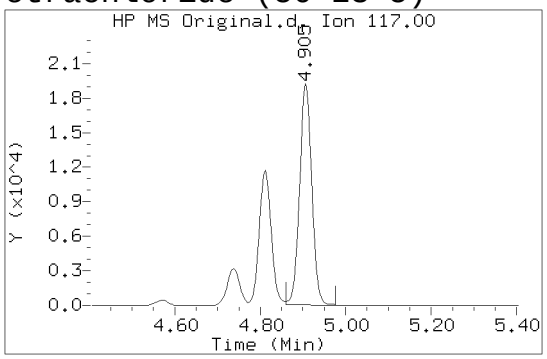


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61807.D
Inj Date : 18-JUN-2024 13:21
InstruID : VOA9.i
LabSampID : VSTD020

Carbon Tetrachloride (56-23-5)

BEFORE

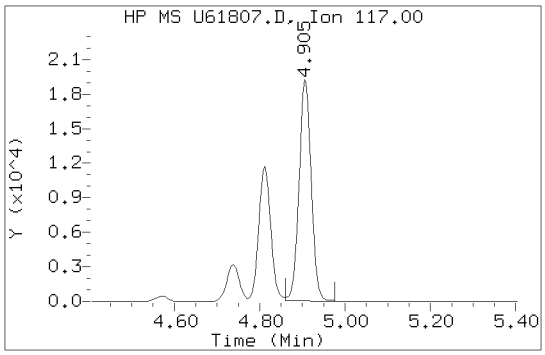
MASS
117
AREA
38785
HEIGHT
19251
26-Jun-2024
12:29
RUCHA
PATEL



Reason Code:

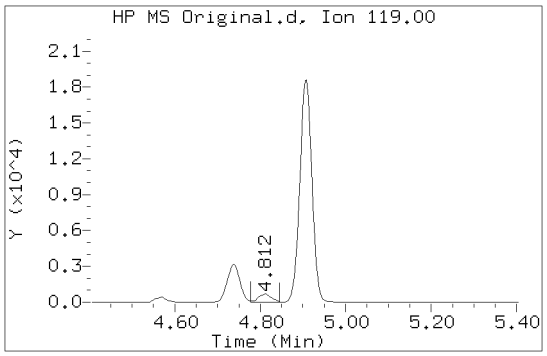
AFTER

MASS
117
AREA
38785
HEIGHT
19251
26-Jun-2024
12:29
RUCHA
PATEL



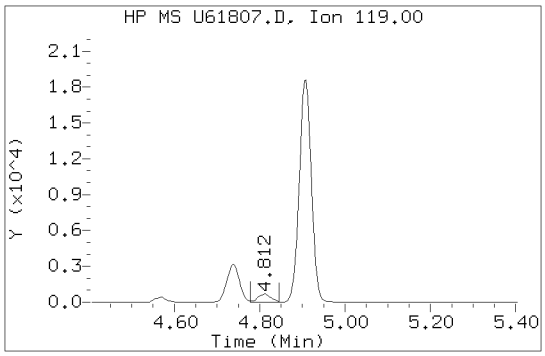
BEFORE

MASS
119
AREA
1460
HEIGHT
681
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
119
AREA
1460
HEIGHT
681
26-Jun-2024
12:29
RUCHA
PATEL

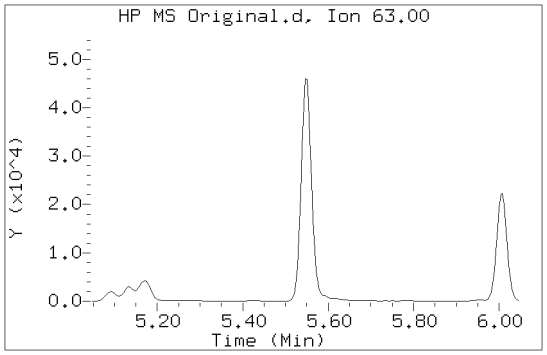


1,2-Dichloropropane (78-87-5)

Reason Code:

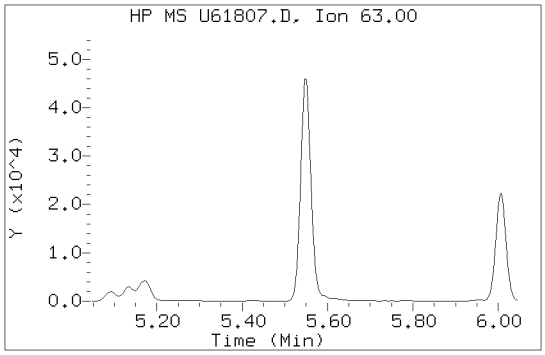
BEFORE

MASS
63
AREA
37899
HEIGHT
22243
26-Jun-2024
12:29
RUCHA
PATEL



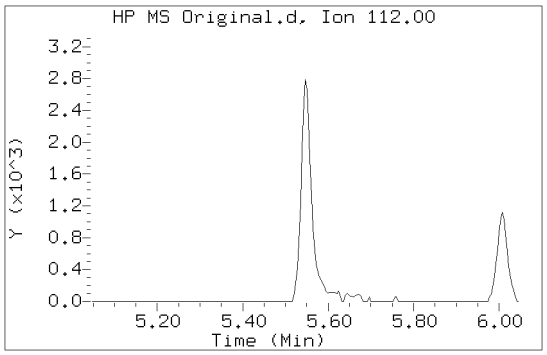
AFTER

MASS
63
AREA
37899
HEIGHT
22243
26-Jun-2024
12:29
RUCHA
PATEL



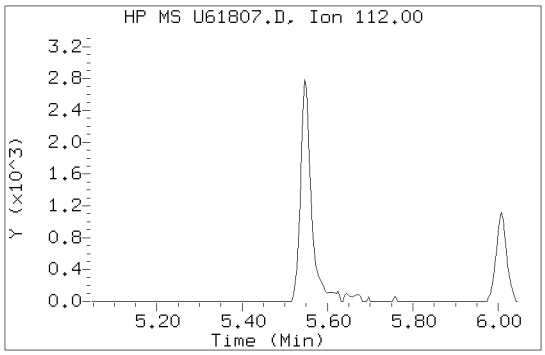
BEFORE

MASS
112
AREA
1947
HEIGHT
1119
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
112
AREA
1947
HEIGHT
1119
26-Jun-2024
12:29
RUCHA
PATEL



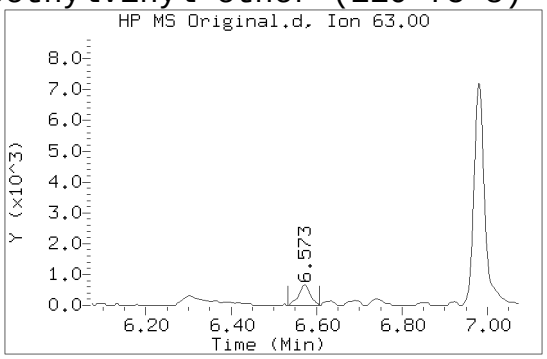
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61807.D
Inj Date : 18-JUN-2024 13:21
InstruID : VOA9.i
LabSampID : VSTD020

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

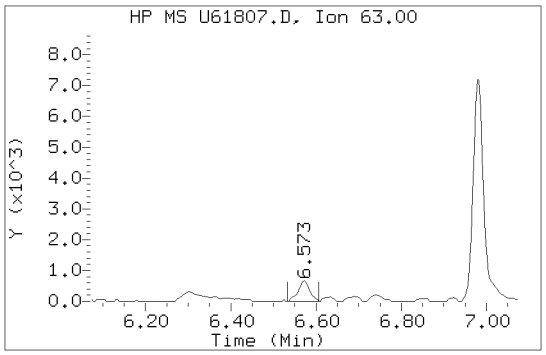
BEFORE

MASS
63
AREA
1281
HEIGHT
671
26-Jun-2024
12:29
RUCHA
PATEL



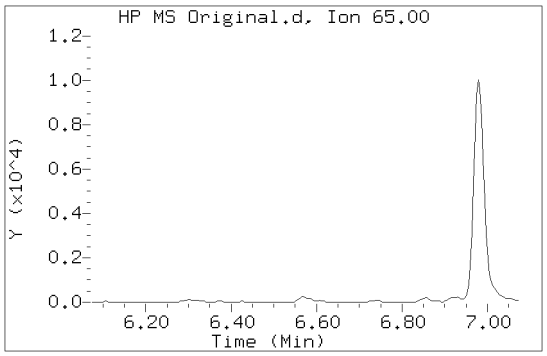
AFTER

MASS
63
AREA
1281
HEIGHT
671
26-Jun-2024
12:29
RUCHA
PATEL



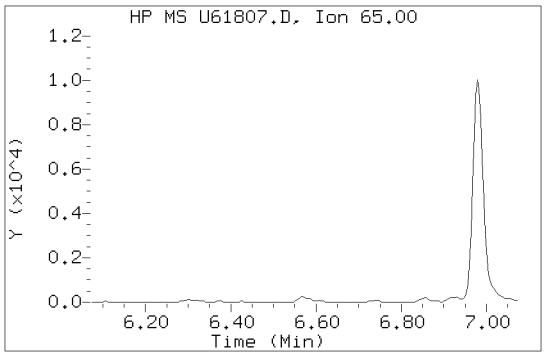
BEFORE

MASS
65
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



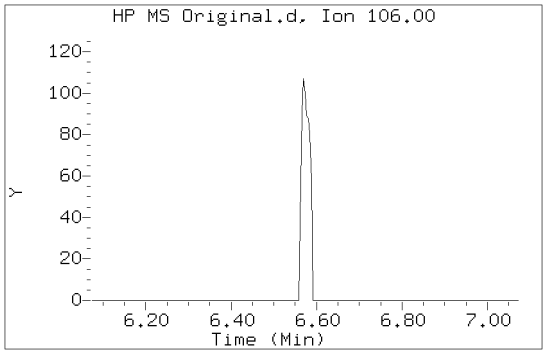
AFTER

MASS
65
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



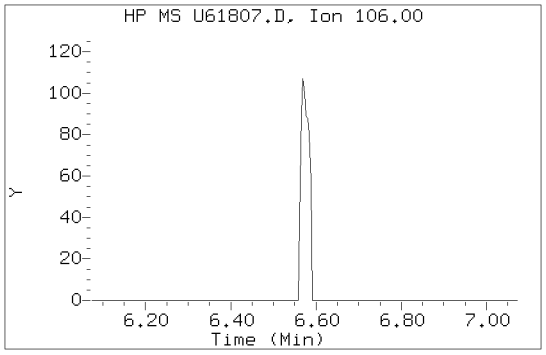
BEFORE

MASS
106
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
106
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL

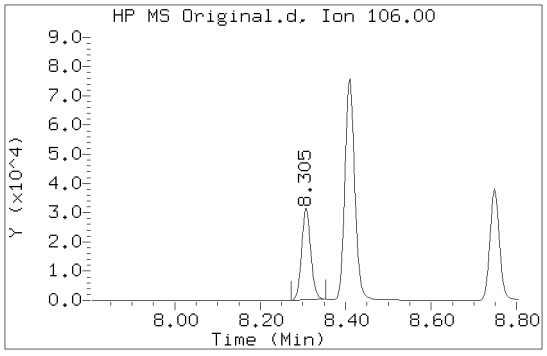


Ethylbenzene (100-41-4)

Reason Code:

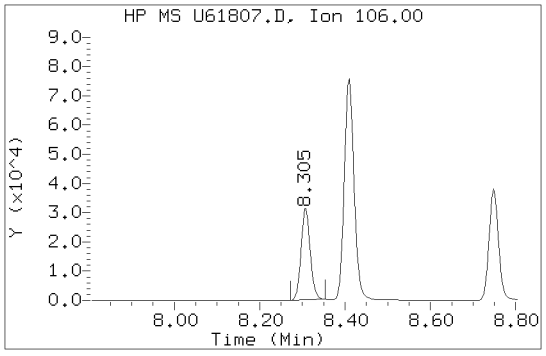
BEFORE

MASS
106
AREA
47862
HEIGHT
31268
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
106
AREA
47862
HEIGHT
31268
26-Jun-2024
12:29
RUCHA
PATEL



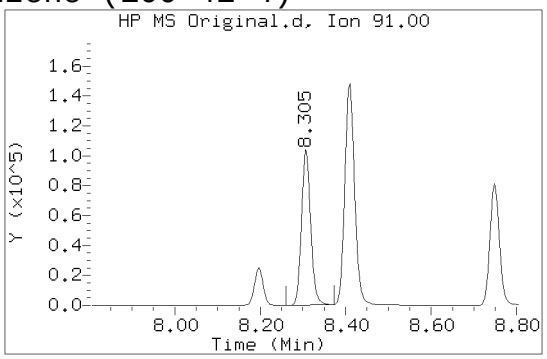
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61807.D
Inj Date : 18-JUN-2024 13:21
InstruID : VOA9.i
LabSampID : VSTD020

Ethylbenzene (100-41-4)

Reason Code:

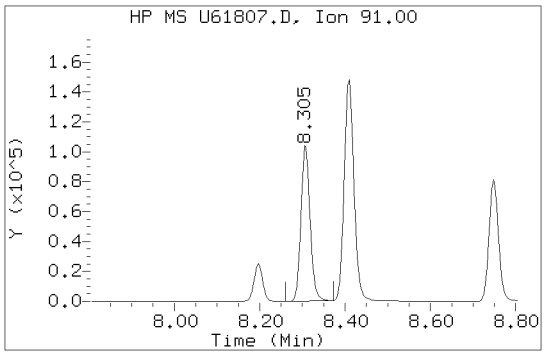
BEFORE

MASS
91
AREA
158627
HEIGHT
104064
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
91
AREA
158627
HEIGHT
104064
26-Jun-2024
12:29
RUCHA
PATEL

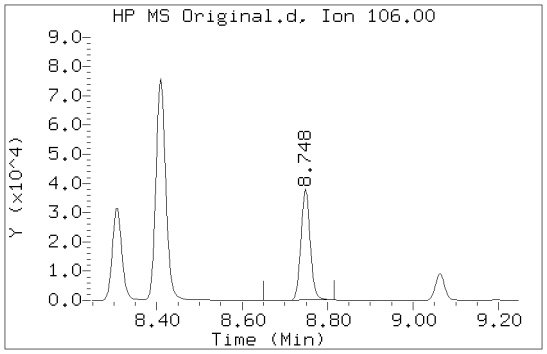


o-Xylene (95-47-6)

Reason Code:

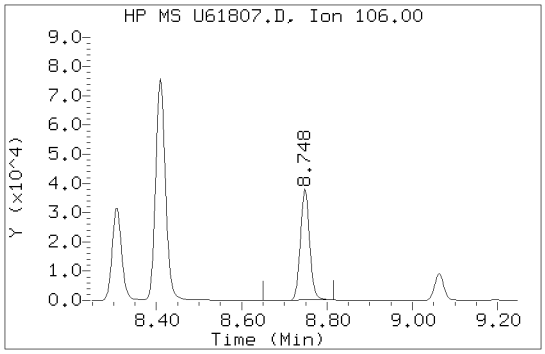
BEFORE

MASS
106
AREA
58107
HEIGHT
37991
26-Jun-2024
12:29
RUCHA
PATEL



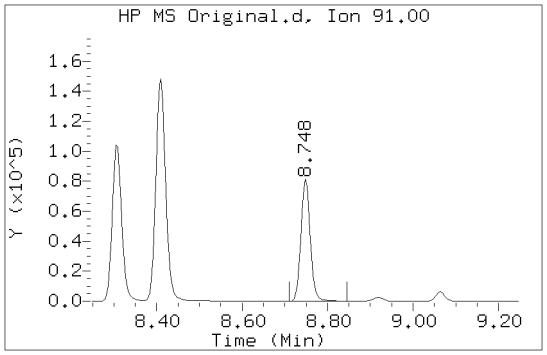
AFTER

MASS
106
AREA
58107
HEIGHT
37991
26-Jun-2024
12:29
RUCHA
PATEL



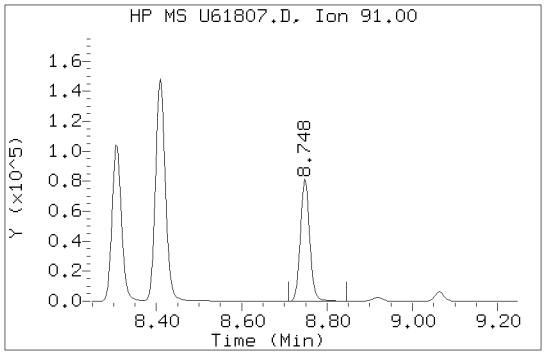
BEFORE

MASS
91
AREA
125352
HEIGHT
81327
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
91
AREA
125352
HEIGHT
81327
26-Jun-2024
12:29
RUCHA
PATEL

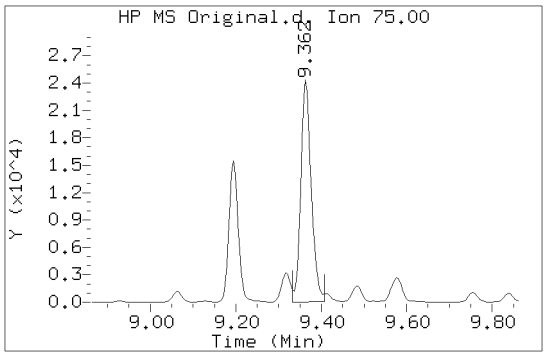


1,2,3-Trichloropropane (96-18-4)

Reason Code:

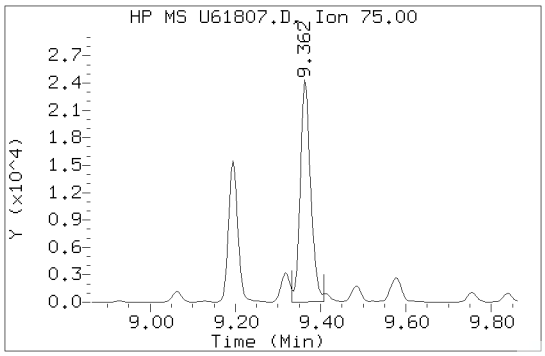
BEFORE

MASS
75
AREA
42156
HEIGHT
24319
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
75
AREA
42156
HEIGHT
24319
26-Jun-2024
12:29
RUCHA
PATEL



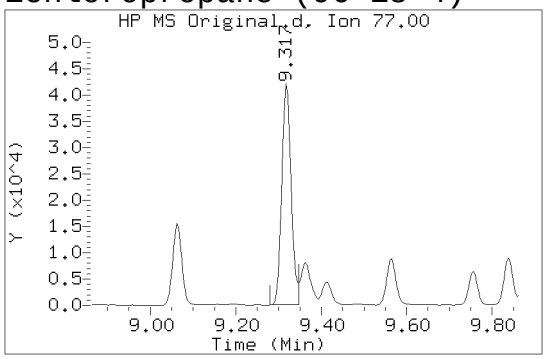
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61807.D
Inj Date : 18-JUN-2024 13:21
InstruID : VOA9.i
LabSampID : VSTD020

1,2,3-Trichloropropane (96-18-4)

Reason Code:

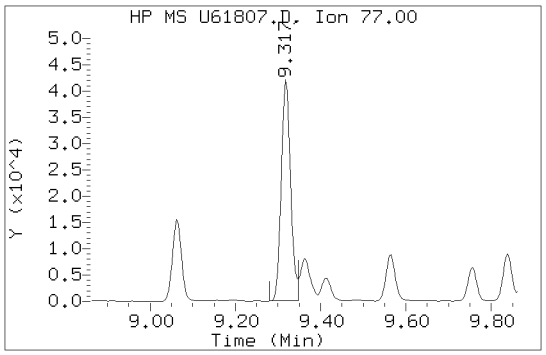
BEFORE

MASS
77
AREA
64534
HEIGHT
42087
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
77
AREA
64534
HEIGHT
42087
26-Jun-2024
12:29
RUCHA
PATEL

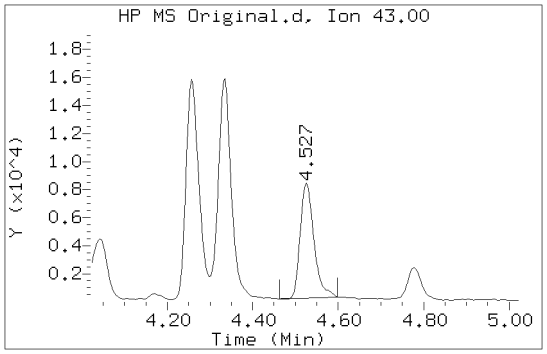


Ethyl Acetate (141-78-6)

Reason Code:

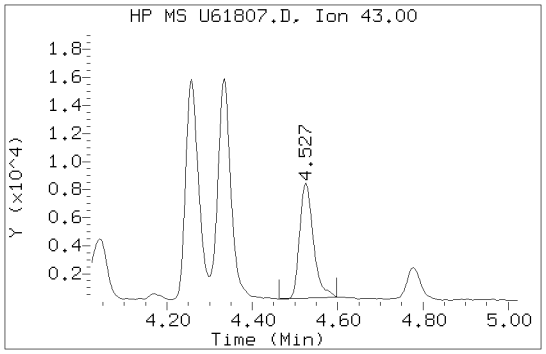
BEFORE

MASS
43
AREA
18504
HEIGHT
8202
26-Jun-2024
12:29
RUCHA
PATEL



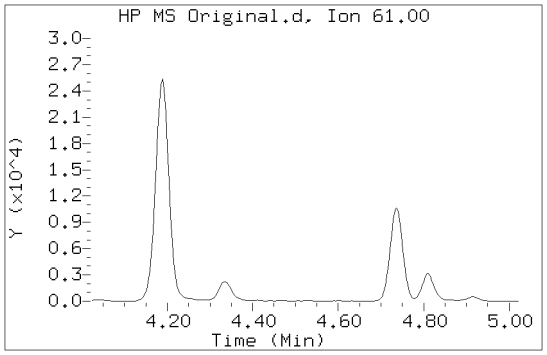
AFTER

MASS
43
AREA
18504
HEIGHT
8202
26-Jun-2024
12:29
RUCHA
PATEL



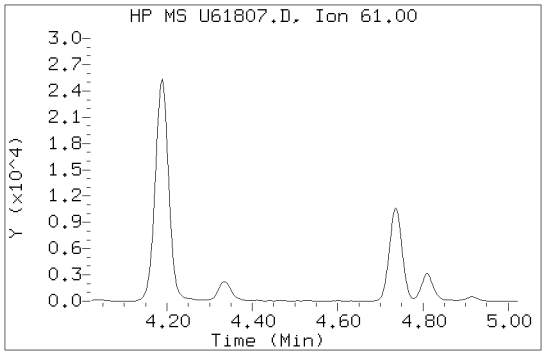
BEFORE

MASS
61
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



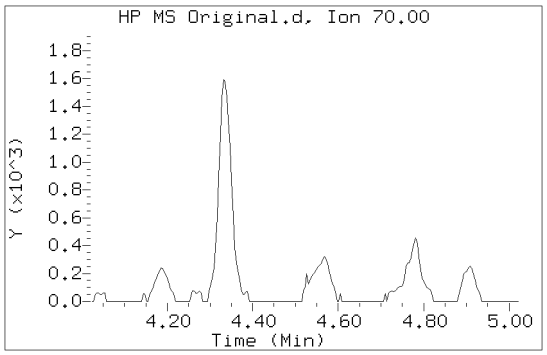
AFTER

MASS
61
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



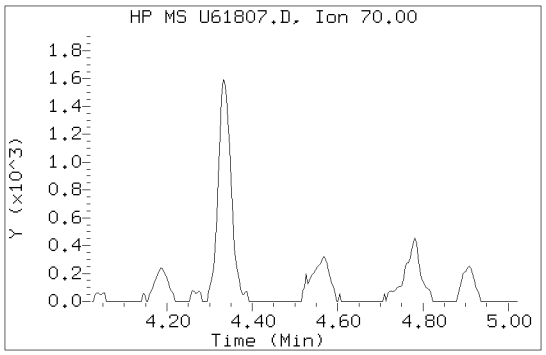
BEFORE

MASS
70
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
70
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



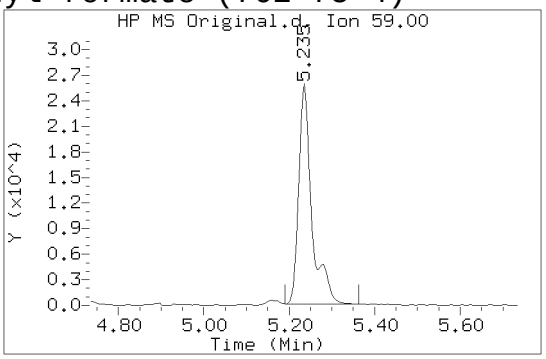
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61807.D
Inj Date : 18-JUN-2024 13:21
InstruID : VOA9.i
LabSampID : VSTD020

tert-Butyl formate (762-75-4)

Reason Code:

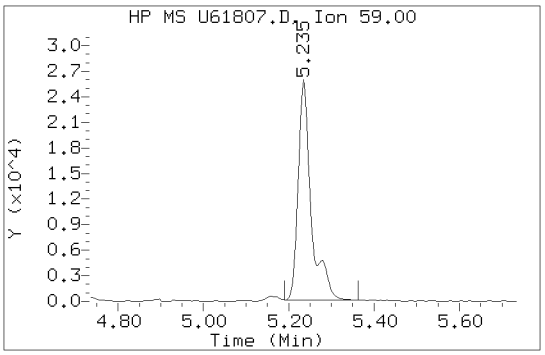
BEFORE

MASS
59
AREA
55984
HEIGHT
25864
26-Jun-2024
12:29
RUCHA
PATEL



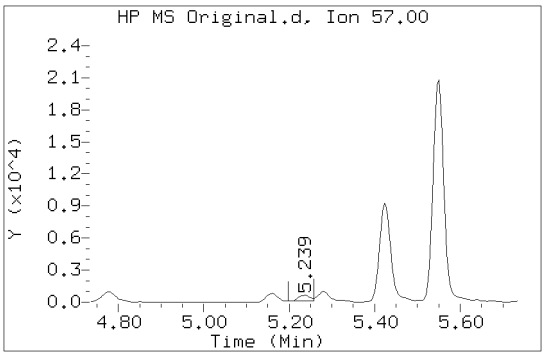
AFTER

MASS
59
AREA
55984
HEIGHT
25864
26-Jun-2024
12:29
RUCHA
PATEL



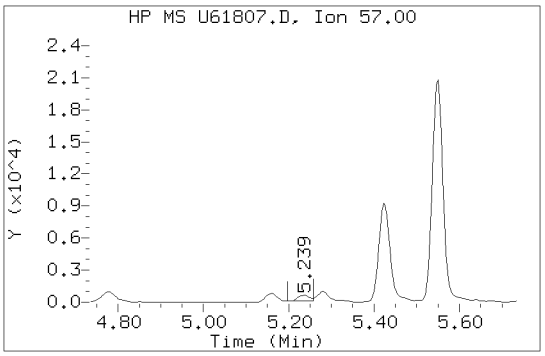
BEFORE

MASS
57
AREA
1069
HEIGHT
531
26-Jun-2024
12:29
RUCHA
PATEL



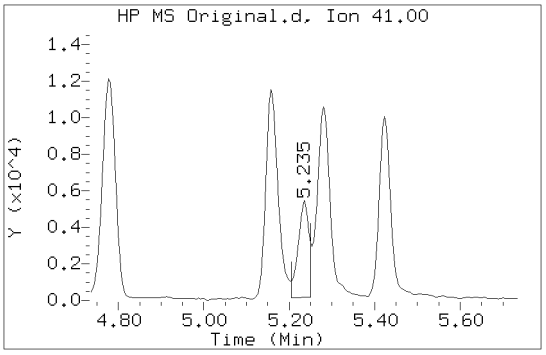
AFTER

MASS
57
AREA
1069
HEIGHT
531
26-Jun-2024
12:29
RUCHA
PATEL



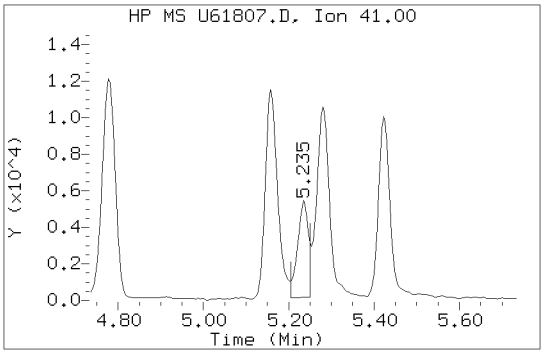
BEFORE

MASS
41
AREA
9500
HEIGHT
5298
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
41
AREA
9500
HEIGHT
5298
26-Jun-2024
12:29
RUCHA
PATEL

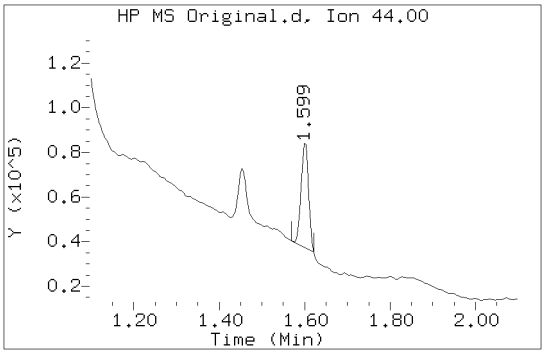


Ethylene oxide (75-21-8)

Reason Code:

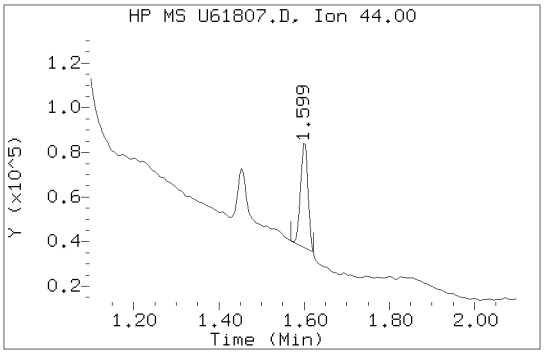
BEFORE

MASS
44
AREA
58646
HEIGHT
46732
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
44
AREA
58646
HEIGHT
46732
26-Jun-2024
12:29
RUCHA
PATEL



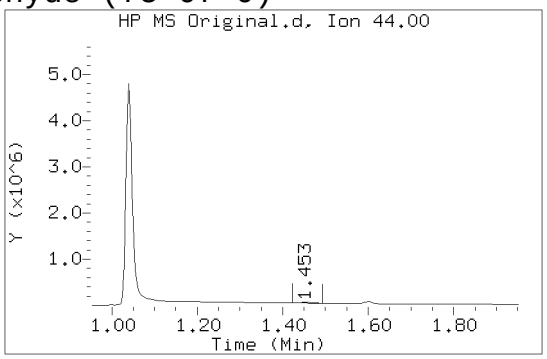
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61807.D
Inj Date : 18-JUN-2024 13:21
InstruID : VOA9.i
LabSampID : VSTD020

Acetaldehyde (75-07-0)

Reason Code:

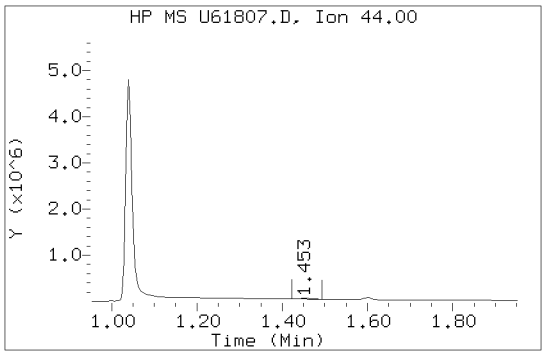
BEFORE

MASS
44
AREA
30594
HEIGHT
23148
26-Jun-2024
12:29
RUCHA
PATEL



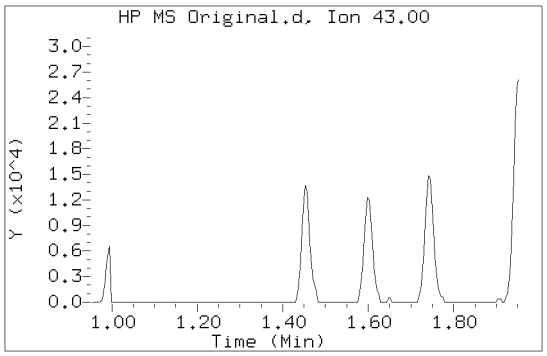
AFTER

MASS
44
AREA
30594
HEIGHT
23148
26-Jun-2024
12:29
RUCHA
PATEL



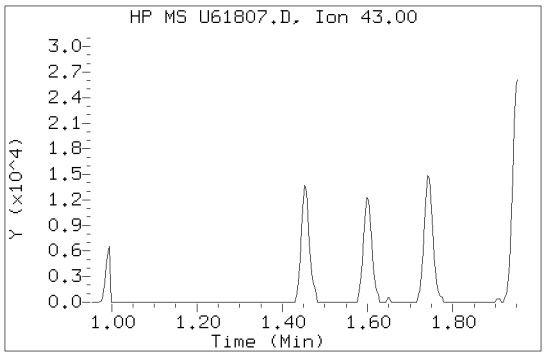
BEFORE

MASS
43
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



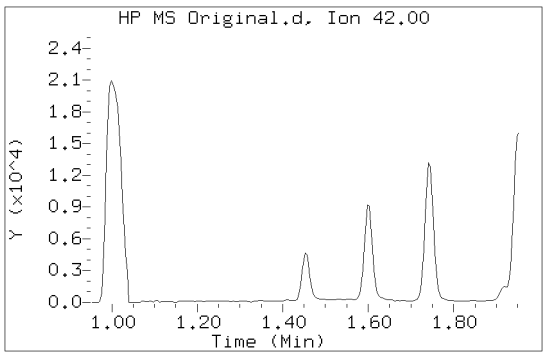
AFTER

MASS
43
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



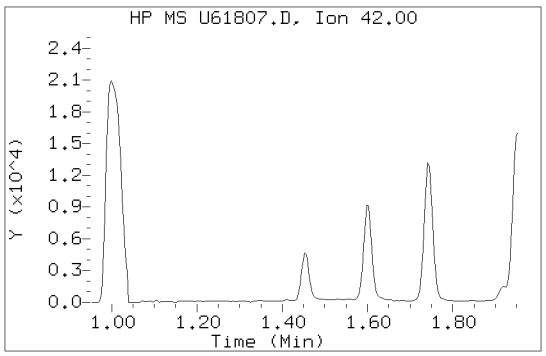
BEFORE

MASS
42
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
42
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL

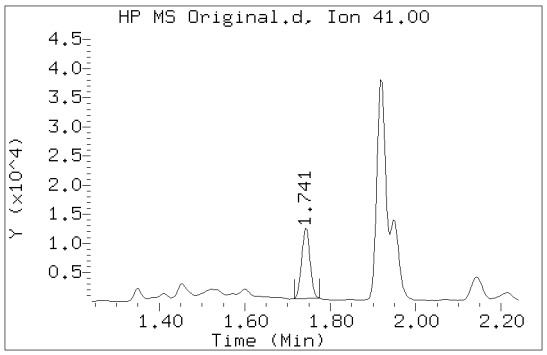


Isobutylene (115-11-7)

Reason Code:

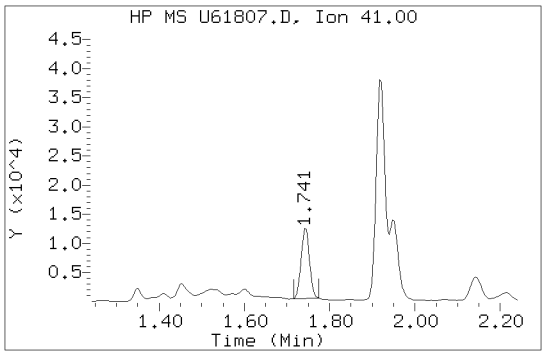
BEFORE

MASS
41
AREA
16809
HEIGHT
12072
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
41
AREA
16809
HEIGHT
12072
26-Jun-2024
12:29
RUCHA
PATEL



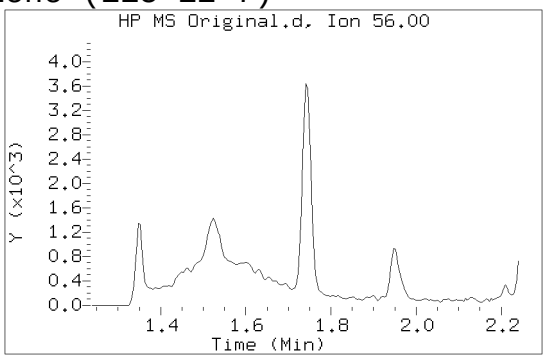
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61807.D
Inj Date : 18-JUN-2024 13:21
InstruID : VOA9.i
LabSampID : VSTD020

Isobutylene (115-11-7)

Reason Code:

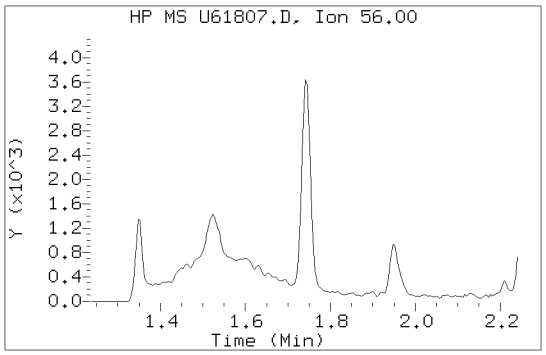
BEFORE

MASS
56
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



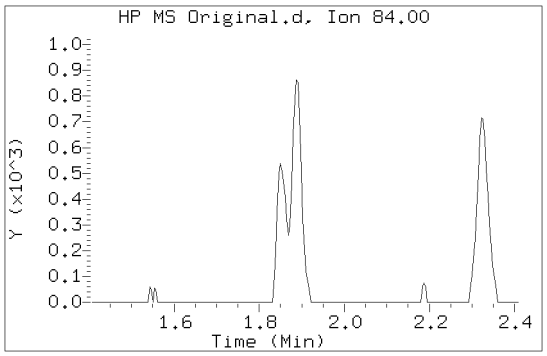
AFTER

MASS
56
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



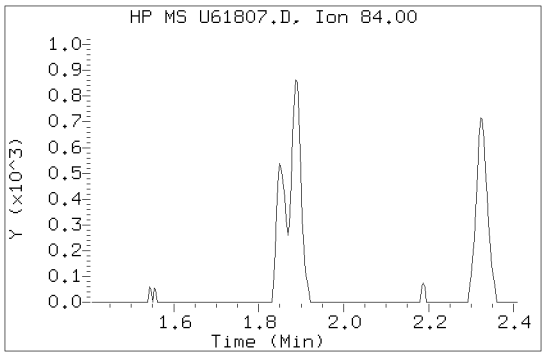
BEFORE

MASS
84
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
84
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL

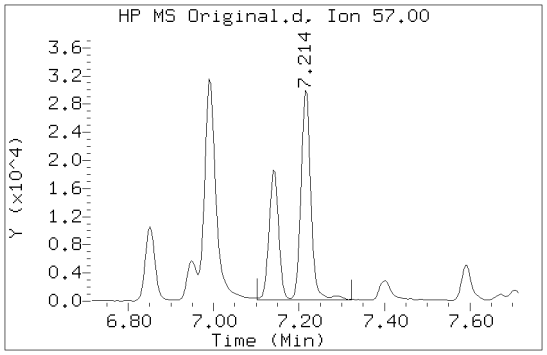


sec-Butyl Ether (6863-58-7)

Reason Code:

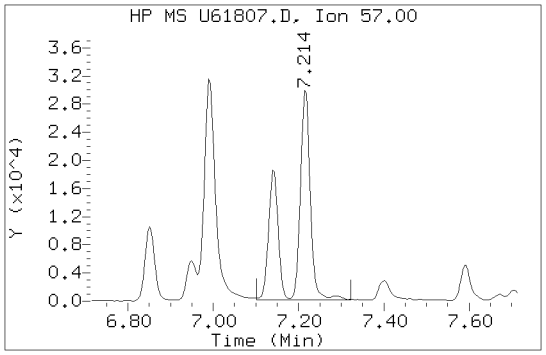
BEFORE

MASS
57
AREA
77842
HEIGHT
29793
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
57
AREA
77842
HEIGHT
29793
26-Jun-2024
12:29
RUCHA
PATEL

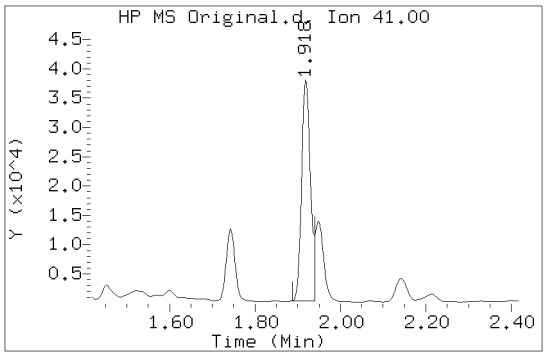


2-Chloropropene (557-98-2)

Reason Code:

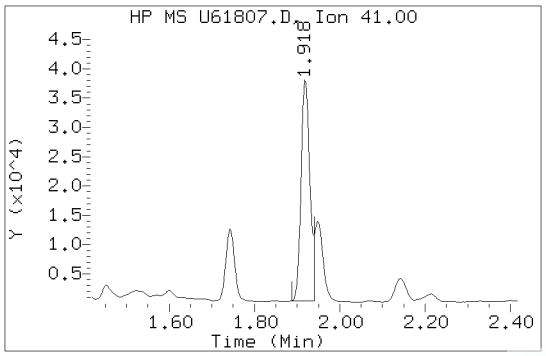
BEFORE

MASS
41
AREA
56143
HEIGHT
37694
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
41
AREA
56143
HEIGHT
37694
26-Jun-2024
12:29
RUCHA
PATEL



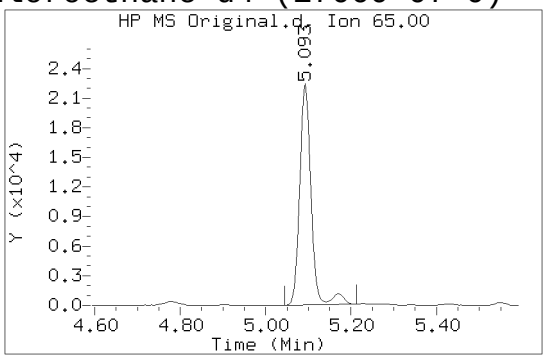
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61807.D
Inj Date : 18-JUN-2024 13:21
InstruID : VOA9.i
LabSampID : VSTD020

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

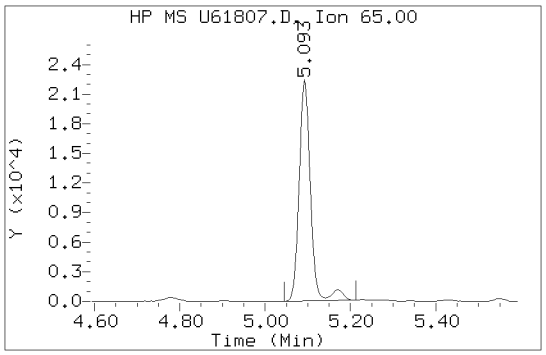
BEFORE

MASS
65
AREA
42721
HEIGHT
22428
26-Jun-2024
12:29
RUCHA
PATEL



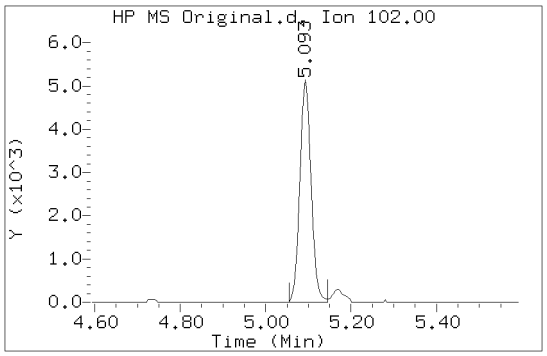
AFTER

MASS
65
AREA
42721
HEIGHT
22428
26-Jun-2024
12:29
RUCHA
PATEL



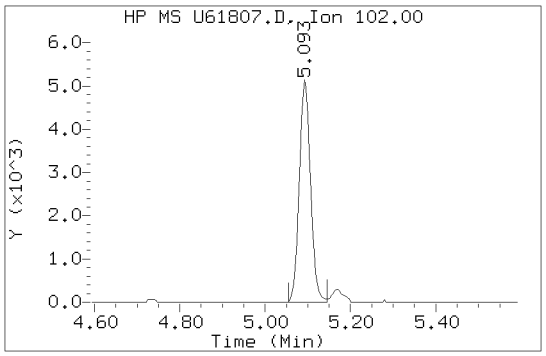
BEFORE

MASS
102
AREA
9621
HEIGHT
5140
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
102
AREA
9621
HEIGHT
5140
26-Jun-2024
12:29
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61808.D Page 1
Report Date: 26-Jun-2024 12:30

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61808.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 18-JUN-2024 13:42
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD050;VSTD050;1;7
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240618.b\8260C.m
Meth Date : 26-Jun-2024 12:30 VOA9.i Quant Type: ISTD
Cal Date : 18-JUN-2024 13:21 Cal File: U61807.D
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.819	4.819	(1.000)	272154	50.0000	
2	Dichlorodifluoromethane	85	1.168	1.168	(0.242)	71745	50.0000	50.66(M)
3	Chloromethane	50	1.299	1.299	(0.270)	213466	50.0000	50.99
4	Propionitrile	54	4.335	4.335	(0.900)	117987	500.000	499.43
5	Vinyl Chloride	62	1.381	1.381	(0.287)	108070	50.0000	51.63(M)
6	Bromomethane	94	1.621	1.621	(0.337)	37541	50.0000	52.60
7	Chloroethane	64	1.704	1.704	(0.354)	74065	50.0000	51.26
8	Trichlorofluoromethane	101	1.899	1.899	(0.394)	133890	50.0000	53.08
9	Acrolein	56	2.266	2.266	(0.470)	8666	100.000	101.52
10	Acetone	43	2.409	2.409	(0.500)	64431	100.000	100.11
11	1,1-Dichloroethene	96	2.337	2.337	(0.485)	77521	50.0000	51.32
12	Isobutyl Alcohol	43	5.284	5.284	(1.096)	247763	1000.00	998.25
13	Acetonitrile	39	2.675	2.675	(0.555)	100821	500.000	496.24
14	Allyl Chloride	41	2.675	2.675	(0.555)	235193	50.0000	50.29
15	Iodomethane	142	2.469	2.469	(0.512)	20918	100.000	101.16
16	Acrylonitrile	53	3.068	3.068	(0.637)	62843	100.000	99.97
17	Methylene Chloride	84	2.795	2.795	(0.580)	98077	50.0000	51.31
18	Methyl tert-butyl ether	73	3.083	3.083	(0.640)	222687	50.0000	49.80
19	Carbon Disulfide	76	2.525	2.525	(0.524)	448280	100.000	101.12
20	trans-1,2-Dichloroethene	96	3.061	3.061	(0.635)	85848	50.0000	51.17

21 Vinyl Acetate	43	4.339	4.339 (0.900)	92135	100.000	103.64
22 1,1-Dichloroethane	63	3.514	3.514 (0.729)	161999	50.0000	51.97

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61808.D Page 2
Report Date: 26-Jun-2024 12:30

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.612	3.612	(0.750)	132934	50.0000	48.33
	24 2-Butanone	43	4.264	4.264	(0.885)	88495	100.000	102.72
	25 Methacrylonitrile	41	4.493	4.493	(0.932)	51858	50.0000	48.38(a)
	26 2,2-Dichloropropane	77	4.185	4.185	(0.869)	123879	50.0000	51.50
	27 cis-1,2-Dichloroethene	96	4.197	4.197	(0.871)	100054	50.0000	51.51
	28 Chloroform	83	4.575	4.575	(0.949)	164898	50.0000	51.65
	29 Bromochloromethane	128	4.470	4.470	(0.928)	50850	50.0000	51.94
$	30 Dibromofluoromethane	113	4.748	4.748	(0.985)	87837	50.0000	50.73
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.984)	133134	50.0000	51.35
	32 1,1-Dichloropropene	75	4.924	4.924	(0.887)	121436	50.0000	47.82
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	129668	50.0000	54.17
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	106976	50.0000	50.16(M)
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	104044	50.0000	50.33
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	391587	50.0000	
	37 Benzene	78	5.138	5.138	(0.925)	374648	50.0000	51.81
	38 Trichloroethene	130	5.790	5.790	(1.043)	97566	50.0000	52.22
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	115133	50.0000	51.51
	40 Methyl Methacrylate	41	5.820	5.820	(1.208)	30825	50.0000	48.78
	41 2-Chloroethylvinyl ether	63	6.577	6.577	(1.184)	4142	100.000	80.80
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	101557	50.0000	53.37(M)
	43 2-Nitropropane	43	6.510	6.510	(1.351)	20734	50.0000	46.84
	44 Dibromomethane	93	6.120	6.120	(1.102)	59739	50.0000	52.50
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	185089	100.000	99.90
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	143114	50.0000	50.60
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	369255	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	329680	50.0000	51.62
	49 Ethyl Methacrylate	69	7.289	7.289	(1.312)	115808	50.0000	49.98
	50 Toluene	91	6.982	6.982	(0.853)	397990	50.0000	51.20
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	117226	50.0000	51.09
	52 2-Hexanone	43	7.214	7.214	(0.881)	159908	100.000	97.01
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	75349	50.0000	54.31
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	158869	50.0000	51.33
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	90844	50.0000	50.48
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	80498	50.0000	50.94
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	86825	50.0000	51.29
	58 1-Chlorohexane	55	8.197	8.197	(1.476)	72775	50.0000	51.49
	59 Chlorobenzene	112	8.212	8.212	(1.003)	260581	50.0000	51.62
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	91020	50.0000	50.63
	61 Ethylbenzene	106	8.309	8.309	(1.015)	130750	50.0000	51.70(M)
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	330702	100.000	108.87
	63 o-Xylene	106	8.748	8.748	(1.069)	162252	50.0000	54.40(M)
	64 Styrene	104	8.763	8.763	(1.071)	265793	50.0000	52.12
	66 Bromoform	173	8.920	8.920	(1.090)	57744	50.0000	50.30
	67 Isopropylbenzene	105	9.063	9.063	(1.107)	413368	50.0000	52.79
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	121589	50.0000	51.77
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	125691	50.0000	51.41
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	207199	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	118793	50.0000	51.96(M)
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	24913	50.0000	50.72
	73 n-Propylbenzene	91	9.415	9.415	(0.926)	477060	50.0000	53.03
	74 Bromobenzene	156	9.317	9.317	(0.916)	116212	50.0000	52.10
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	322379	50.0000	55.50

76	2-Chlorotoluene	91	9.482	9.482 (0.932)	296301	50.0000	52.28
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	337228	50.0000	51.91

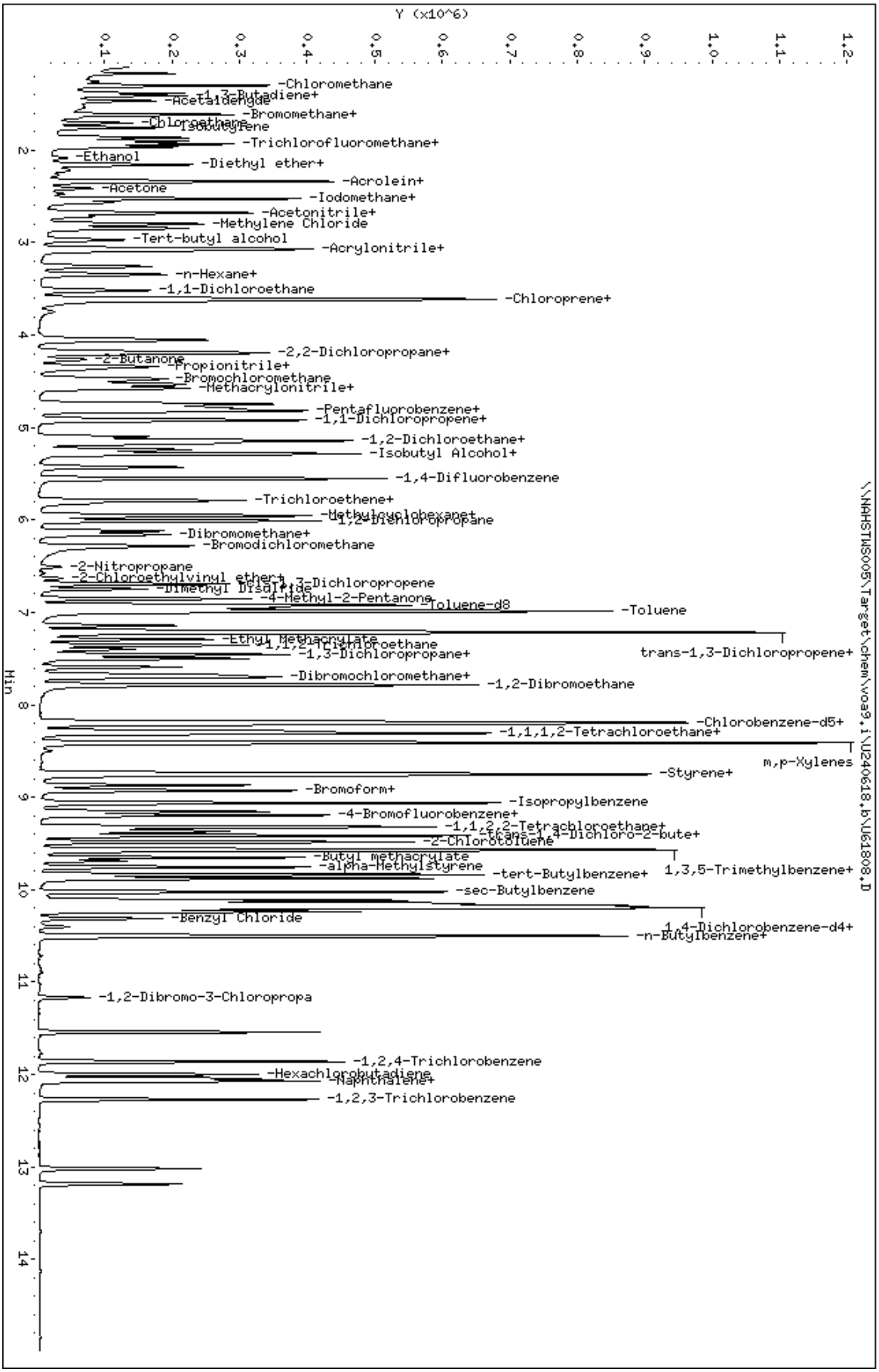
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.838	9.838	(0.967)	291701	50.0000	52.26
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	291959	50.0000	49.86
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	389249	50.0000	52.76
82	p-Isopropyltoluene	119	10.150	10.150	(0.998)	329274	50.0000	53.00
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	207026	50.0000	52.13
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	214635	50.0000	52.02
86	Benzyl Chloride	91	10.311	10.311	(1.260)	120213	50.0000	49.96
87	n-Butylbenzene	91	10.495	10.495	(1.032)	292232	50.0000	51.34
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	202386	50.0000	51.92
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	15052	50.0000	51.36
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	135883	50.0000	52.52
91	Hexachlorobutadiene	225	12.001	12.001	(1.180)	58311	50.0000	51.37
92	Naphthalene	128	12.069	12.069	(1.186)	291329	50.0000	51.36
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	121378	50.0000	51.92
146	Methyl acetate	43	2.716	2.716	(0.564)	70168	50.0000	50.70
138	Freon TF	101	2.337	2.337	(0.485)	76111	50.0000	51.14
141	Cyclohexane	56	4.785	4.785	(0.993)	128400	50.0000	51.54
142	Tetrahydrofuran	42	4.542	4.542	(0.942)	32546	100.000	104.56
147	Methylcyclohexane	55	5.947	5.947	(1.071)	206926	50.0000	48.08
135	1,4-Dioxane	88	6.169	6.169	(1.280)	21010	1000.00	981.87
132	n-Butanol	56	5.820	5.820	(1.208)	43695	1000.00	964.15
136	n-Hexane	57	3.346	3.346	(0.694)	93398	50.0000	52.19
139	Diethyl ether	59	2.146	2.146	(0.445)	65452	50.0000	50.31
148	Tert-butyl alcohol	59	2.971	2.971	(0.617)	139757	1000.00	987.44
149	Isopropyl alcohol	45	2.566	2.566	(0.533)	111537	1000.00	1003.34
156	Diisopropyl ether	45	3.619	3.619	(0.751)	289955	50.0000	50.45
162	Butyl acrylate	55	8.733	8.733	(1.067)	146387	50.0000	48.67
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	382598	50.0000	50.76
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	247837	50.0000	47.87
167	Ethanol	45	2.082	2.082	(0.432)	22880	1000.00	1014.83
172	tert-Butyl formate	59	5.239	5.239	(1.087)	137785	100.000	99.71(M)
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.299)	633996	1000.00	969.51
140	1,3-Butadiene	54	1.408	1.408	(0.292)	45132	50.0000	48.97
182	Epichlorohydrin	57	6.630	6.630	(1.194)	11600	200.000	189.11
M 94	1,2-Dichloroethylene (total)	96				185902	100.000	(a)
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	112184	50.0000	48.95
130	Ethyl Acetate	43	4.530	4.530	(0.940)	37975	50.0000	45.44(M)
131	Methyl Acrylate	55	4.369	4.369	(0.907)	96978	50.0000	49.92
189	n-Butyl acetate	43	7.705	7.705	(0.941)	136481	50.0000	50.13
134	Cyclohexanone	55	9.152	9.152	(0.900)	129182	1000.00	1012.01
185	Isoprene	39	2.161	2.161	(0.449)	21075	50.0000	51.67
188	Isopropyl acetate	43	5.284	5.284	(0.951)	245161	50.0000	51.17
150	Allyl alcohol	57	3.346	3.346	(0.694)	93398	1000.00	1043.85
194	Acetaldehyde	44	1.464	1.464	(0.304)	81996	200.000	204.96(M)
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	64993	50.0000	50.81
202	Isobutylene	41	1.756	1.756	(0.365)	39201	50.0000	49.34(M)
133	Ethyl Acrylate	55	5.947	5.947	(1.234)	206926	50.0000	46.94
163	Butyl methacrylate	41	9.647	9.647	(0.948)	95763	50.0000	51.95
159	Propylene oxide	43	2.206	2.206	(0.458)	10509	100.000	93.21
178	Ethylene oxide	44	1.610	1.610	(0.334)	160609	100.000	100.12(M)
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	99869	50.0000	49.46
204	Tetrahydrothiophene	60	7.672	7.672	(0.937)	94657	50.0000	49.87(A)

205 sec-Butyl Ether	57	7.218	7.218 (0.882)	181834	50.0000	50.91(AM)
187 n-Amyl acetate	43	8.931	8.931 (1.091)	145360	50.0000	50.22

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
206 2-Chloropropene	41	1.933	1.933	(0.401)	131923	50.0000	48.08(AM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\NAHSTNS005\Target\chem\voa9.i\U240618.b\U61808.D
Date : 18-JUN-2024 13:42
Client ID: VSTD050
Sample Info: VSTD050;VSTD050;1;7
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

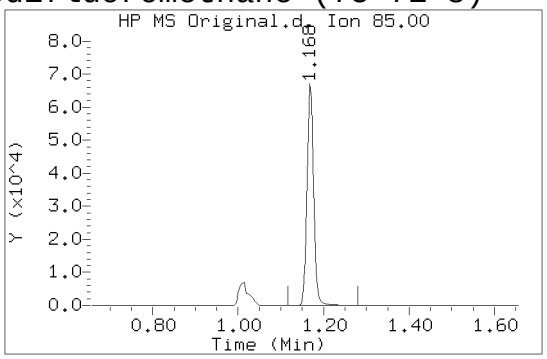
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61808.D
Inj Date : 18-JUN-2024 13:42
InstruID : VOA9.i
LabSampID : VSTD050

Dichlorodifluoromethane (75-71-8)

Reason Code:

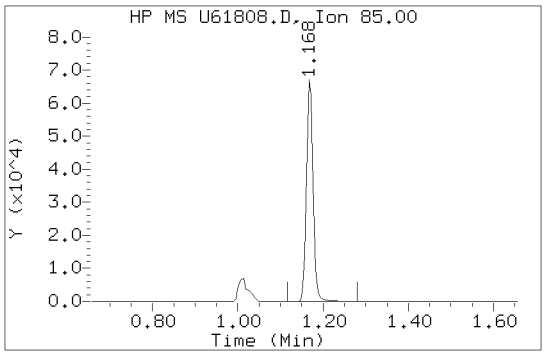
BEFORE

MASS
85
AREA
71745
HEIGHT
67072
26-Jun-2024
12:29
RUCHA
PATEL



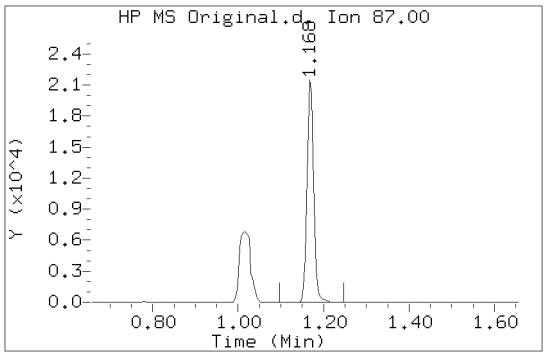
AFTER

MASS
85
AREA
71745
HEIGHT
67072
26-Jun-2024
12:29
RUCHA
PATEL



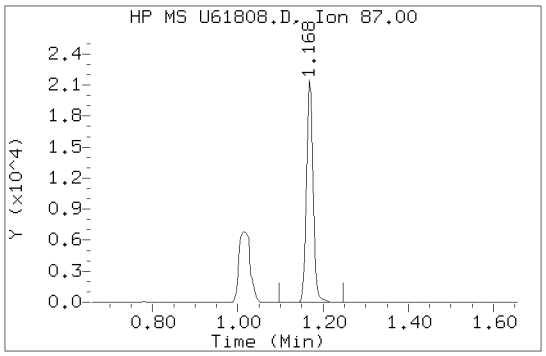
BEFORE

MASS
87
AREA
22952
HEIGHT
21496
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
87
AREA
22952
HEIGHT
21496
26-Jun-2024
12:29
RUCHA
PATEL

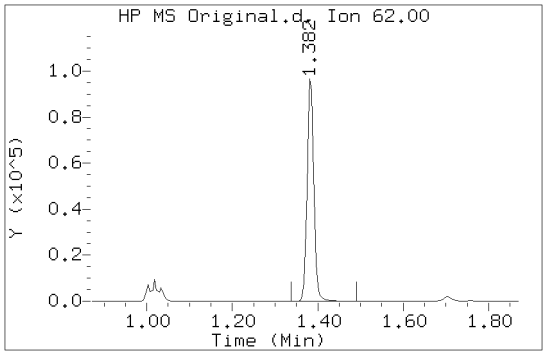


Vinyl Chloride (75-01-4)

Reason Code:

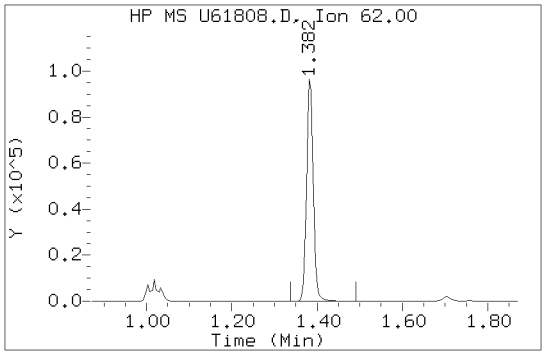
BEFORE

MASS
62
AREA
108070
HEIGHT
96548
26-Jun-2024
12:29
RUCHA
PATEL



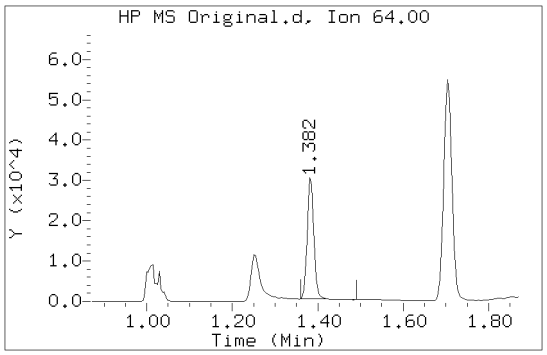
AFTER

MASS
62
AREA
108070
HEIGHT
96548
26-Jun-2024
12:29
RUCHA
PATEL



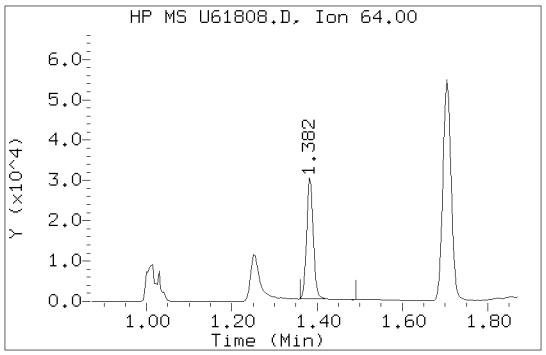
BEFORE

MASS
64
AREA
33257
HEIGHT
30151
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
64
AREA
33257
HEIGHT
30151
26-Jun-2024
12:29
RUCHA
PATEL

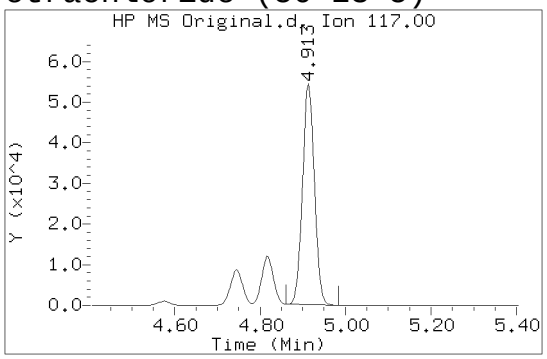


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61808.D
Inj Date : 18-JUN-2024 13:42
InstruID : VOA9.i
LabSampID : VSTD050

Carbon Tetrachloride (56-23-5)

BEFORE

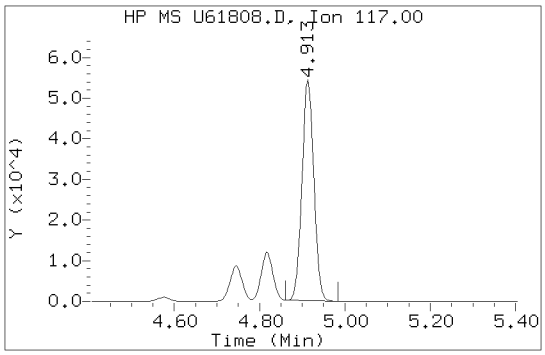
MASS
117
AREA
106976
HEIGHT
54387
26-Jun-2024
12:29
RUCHA
PATEL



Reason Code:

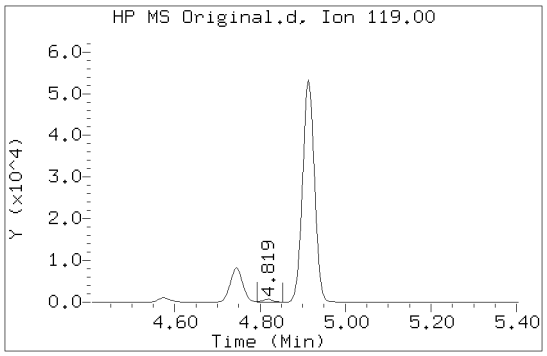
AFTER

MASS
117
AREA
106976
HEIGHT
54387
26-Jun-2024
12:29
RUCHA
PATEL



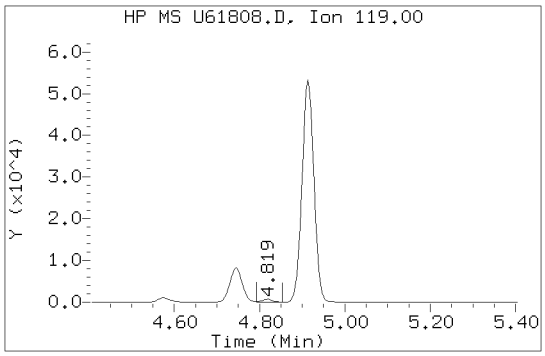
BEFORE

MASS
119
AREA
1217
HEIGHT
700
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

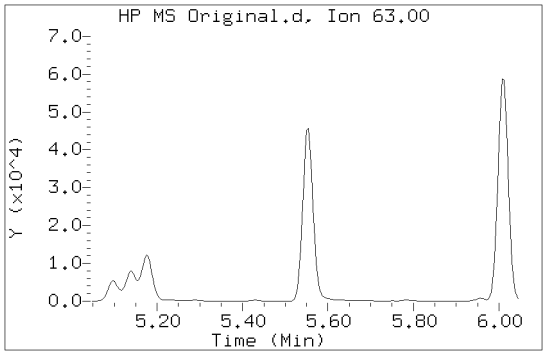
MASS
119
AREA
1217
HEIGHT
700
26-Jun-2024
12:29
RUCHA
PATEL



1,2-Dichloropropane (78-87-5)

BEFORE

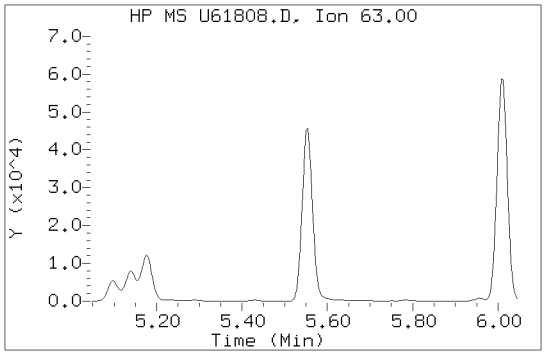
MASS
63
AREA
101557
HEIGHT
58728
26-Jun-2024
12:29
RUCHA
PATEL



Reason Code:

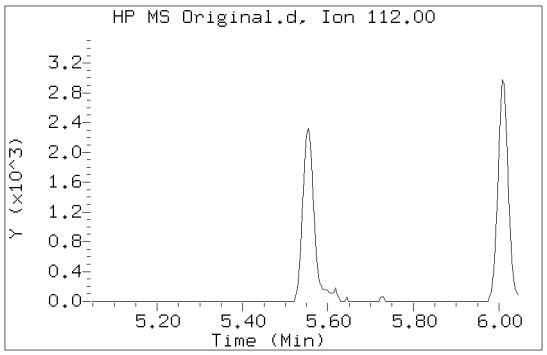
AFTER

MASS
63
AREA
101557
HEIGHT
58728
26-Jun-2024
12:29
RUCHA
PATEL



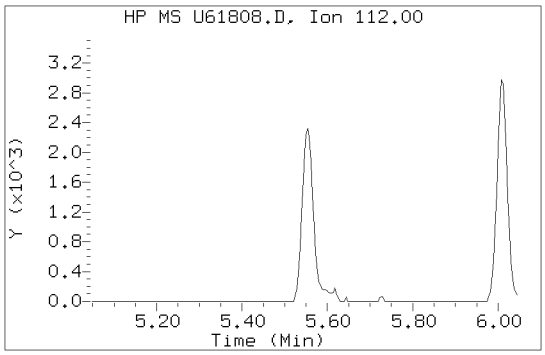
BEFORE

MASS
112
AREA
5221
HEIGHT
2976
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
112
AREA
5221
HEIGHT
2976
26-Jun-2024
12:29
RUCHA
PATEL



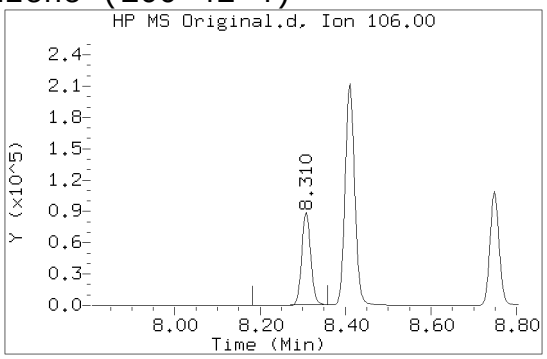
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61808.D
Inj Date : 18-JUN-2024 13:42
InstruID : VOA9.i
LabSampID : VSTD050

Ethylbenzene (100-41-4)

Reason Code:

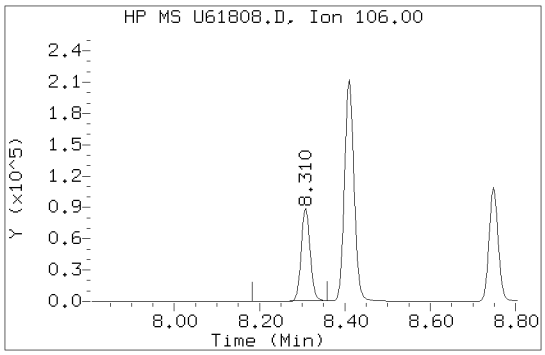
BEFORE

MASS
106
AREA
130750
HEIGHT
88890
26-Jun-2024
12:29
RUCHA
PATEL



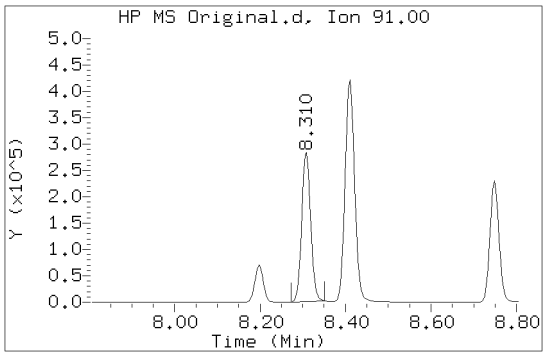
AFTER

MASS
106
AREA
130750
HEIGHT
88890
26-Jun-2024
12:29
RUCHA
PATEL



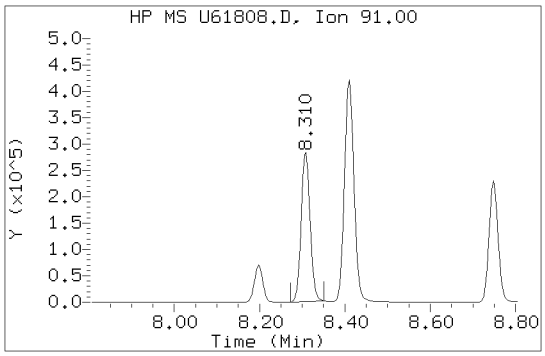
BEFORE

MASS
91
AREA
418495
HEIGHT
282499
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
91
AREA
418495
HEIGHT
282499
26-Jun-2024
12:29
RUCHA
PATEL

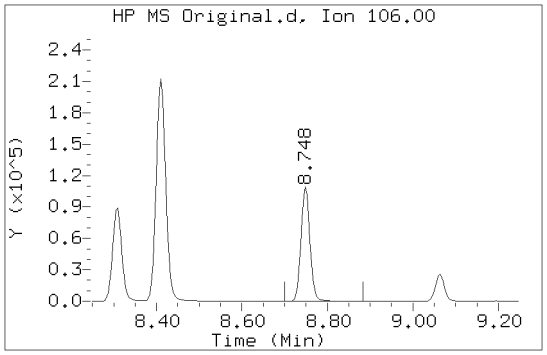


o-Xylene (95-47-6)

Reason Code:

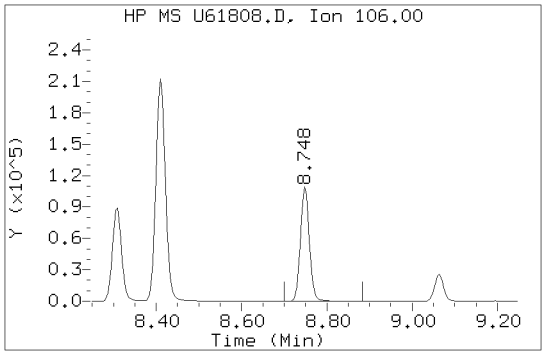
BEFORE

MASS
106
AREA
162252
HEIGHT
109048
26-Jun-2024
12:29
RUCHA
PATEL



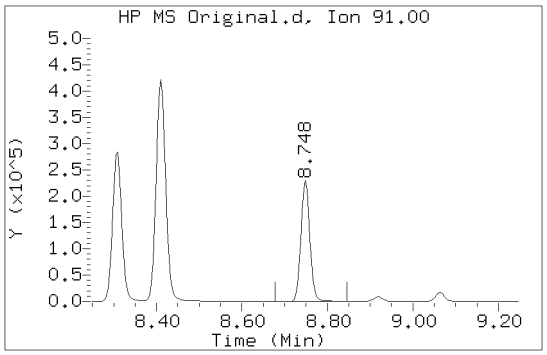
AFTER

MASS
106
AREA
162252
HEIGHT
109048
26-Jun-2024
12:29
RUCHA
PATEL



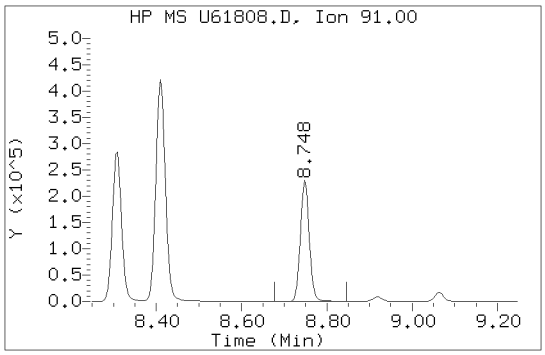
BEFORE

MASS
91
AREA
339200
HEIGHT
229765
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
91
AREA
339200
HEIGHT
229765
26-Jun-2024
12:29
RUCHA
PATEL



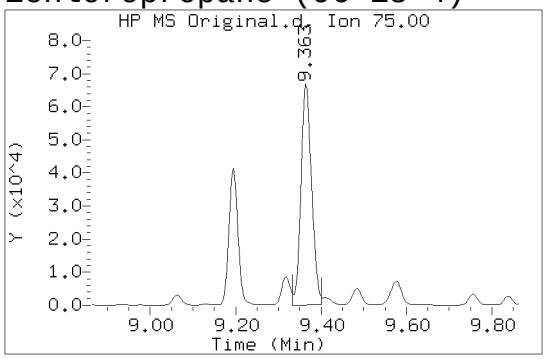
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61808.D
Inj Date : 18-JUN-2024 13:42
InstruID : VOA9.i
LabSampID : VSTD050

1,2,3-Trichloropropane (96-18-4)

Reason Code:

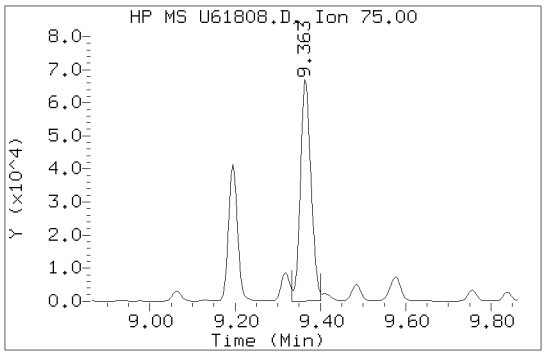
BEFORE

MASS
75
AREA
118793
HEIGHT
66967
26-Jun-2024
12:29
RUCHA
PATEL



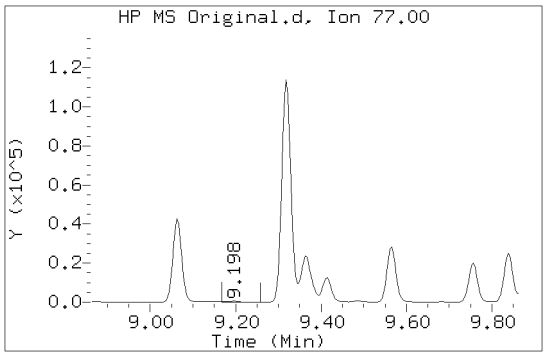
AFTER

MASS
75
AREA
118793
HEIGHT
66967
26-Jun-2024
12:29
RUCHA
PATEL



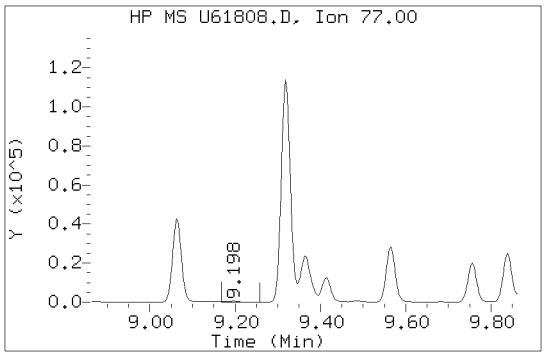
BEFORE

MASS
77
AREA
1172
HEIGHT
585
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
77
AREA
1172
HEIGHT
585
26-Jun-2024
12:29
RUCHA
PATEL

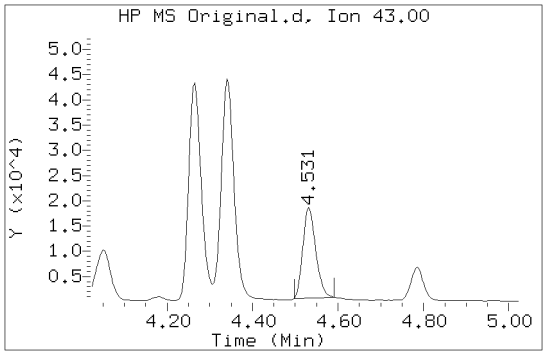


Ethyl Acetate (141-78-6)

Reason Code:

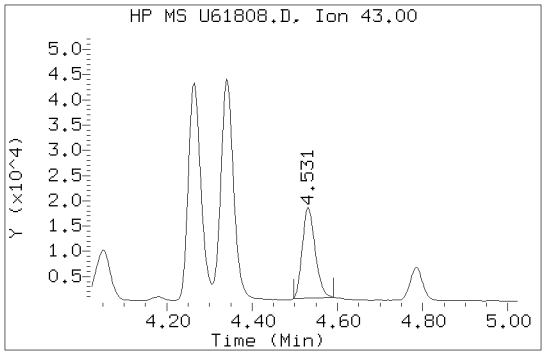
BEFORE

MASS
43
AREA
37975
HEIGHT
17958
26-Jun-2024
12:29
RUCHA
PATEL



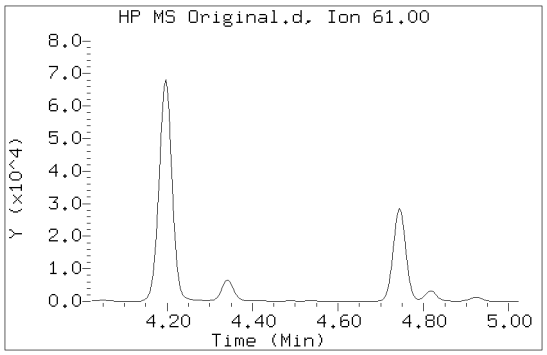
AFTER

MASS
43
AREA
37975
HEIGHT
17958
26-Jun-2024
12:29
RUCHA
PATEL



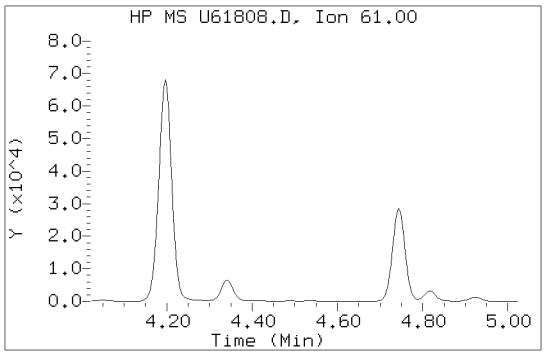
BEFORE

MASS
61
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
61
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



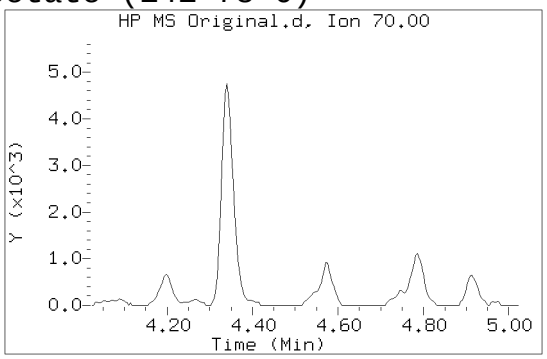
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61808.D
Inj Date : 18-JUN-2024 13:42
InstruID : VOA9.i
LabSampID : VSTD050

Ethyl Acetate (141-78-6)

Reason Code:

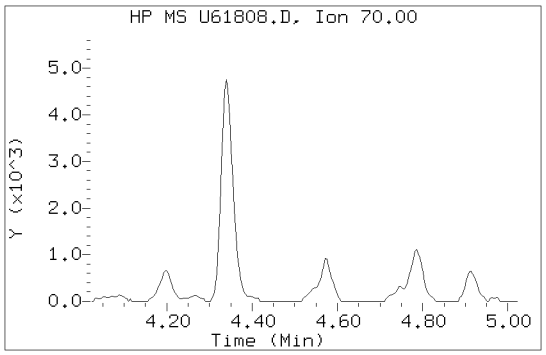
BEFORE

MASS
70
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
70
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL

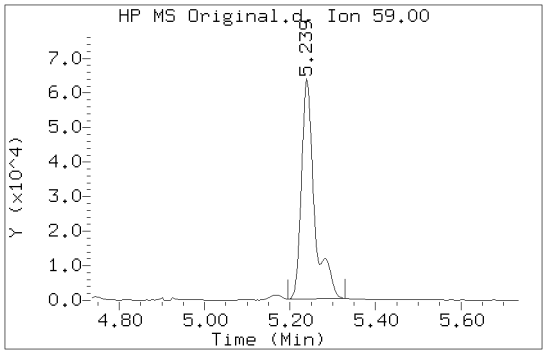


tert-Butyl formate (762-75-4)

Reason Code:

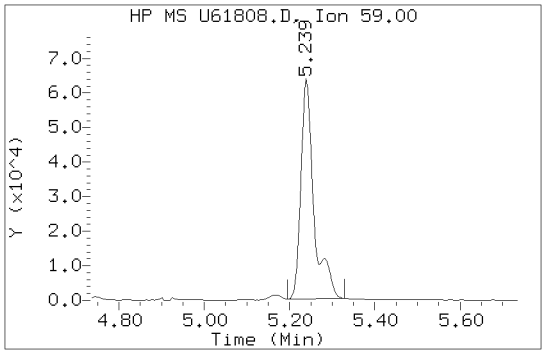
BEFORE

MASS
59
AREA
137785
HEIGHT
63746
26-Jun-2024
12:29
RUCHA
PATEL



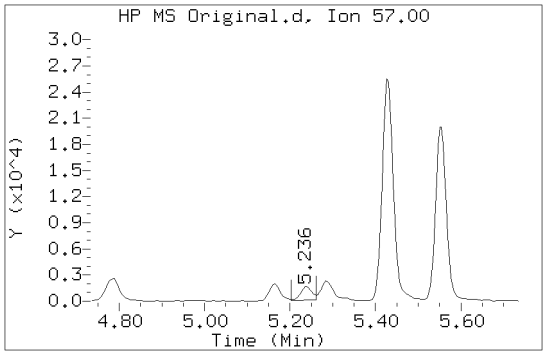
AFTER

MASS
59
AREA
137785
HEIGHT
63746
26-Jun-2024
12:29
RUCHA
PATEL



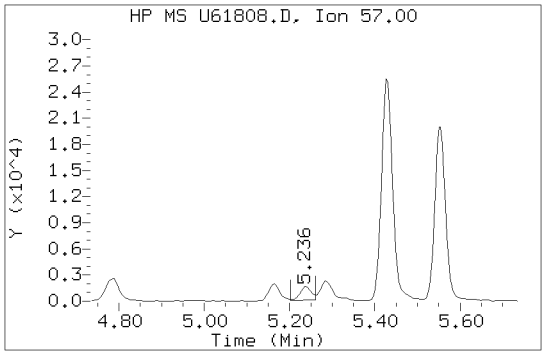
BEFORE

MASS
57
AREA
3042
HEIGHT
1592
26-Jun-2024
12:29
RUCHA
PATEL



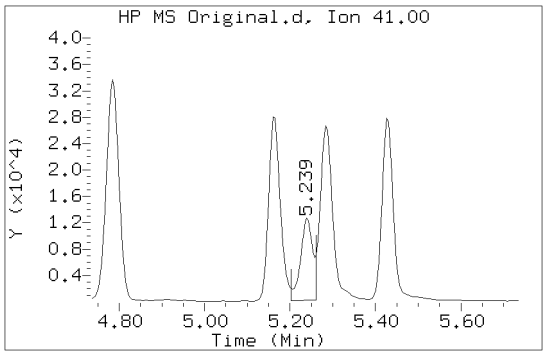
AFTER

MASS
57
AREA
3042
HEIGHT
1592
26-Jun-2024
12:29
RUCHA
PATEL



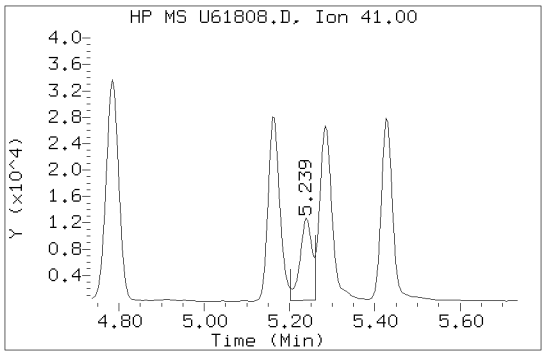
BEFORE

MASS
41
AREA
26386
HEIGHT
12478
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
41
AREA
26386
HEIGHT
12478
26-Jun-2024
12:29
RUCHA
PATEL



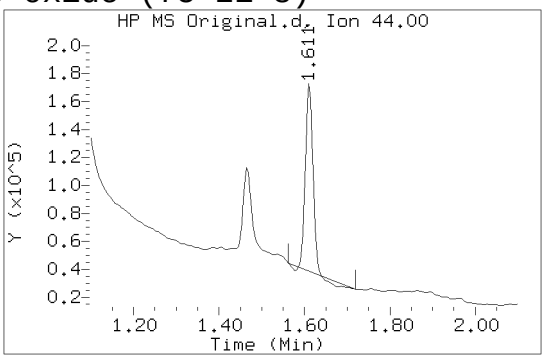
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61808.D
Inj Date : 18-JUN-2024 13:42
InstruID : VOA9.i
LabSampID : VSTD050

Ethylene oxide (75-21-8)

Reason Code:

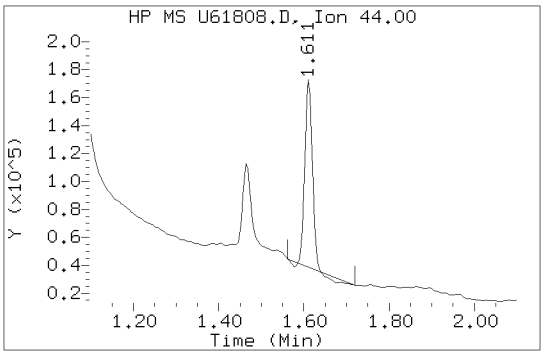
BEFORE

MASS
44
AREA
160609
HEIGHT
134103
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
44
AREA
160609
HEIGHT
134103
26-Jun-2024
12:29
RUCHA
PATEL

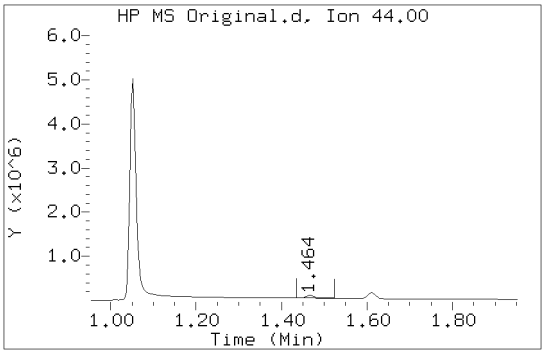


Acetaldehyde (75-07-0)

Reason Code:

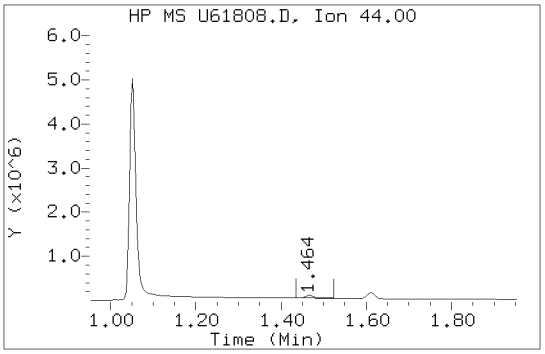
BEFORE

MASS
44
AREA
81996
HEIGHT
59109
26-Jun-2024
12:29
RUCHA
PATEL



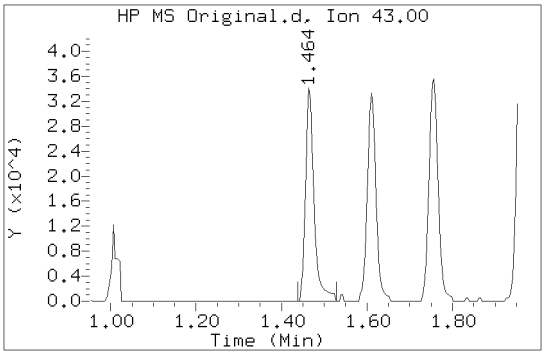
AFTER

MASS
44
AREA
81996
HEIGHT
59109
26-Jun-2024
12:29
RUCHA
PATEL



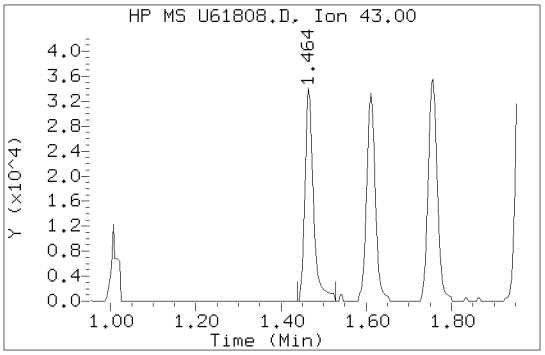
BEFORE

MASS
43
AREA
48868
HEIGHT
34168
26-Jun-2024
12:29
RUCHA
PATEL



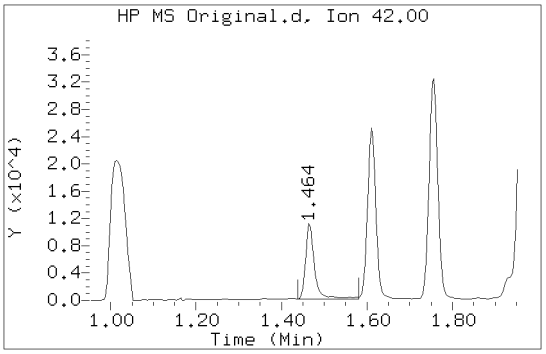
AFTER

MASS
43
AREA
48868
HEIGHT
34168
26-Jun-2024
12:29
RUCHA
PATEL



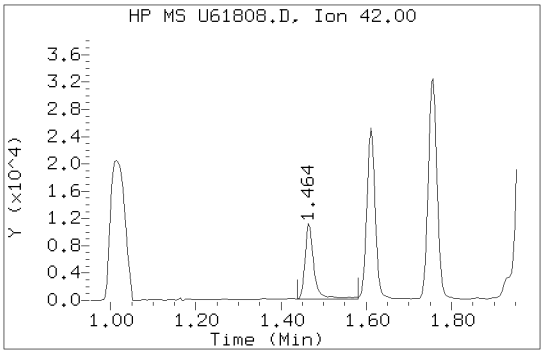
BEFORE

MASS
42
AREA
16466
HEIGHT
11079
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
42
AREA
16466
HEIGHT
11079
26-Jun-2024
12:29
RUCHA
PATEL



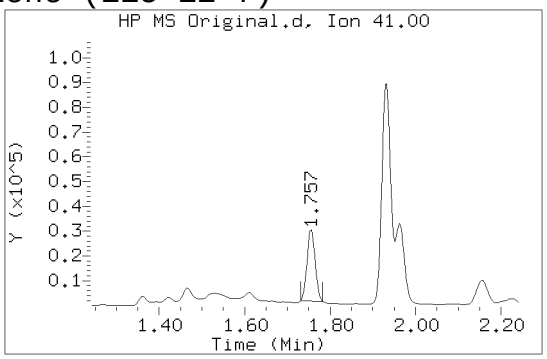
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61808.D
Inj Date : 18-JUN-2024 13:42
InstruID : VOA9.i
LabSampID : VSTD050

Isobutylene (115-11-7)

Reason Code:

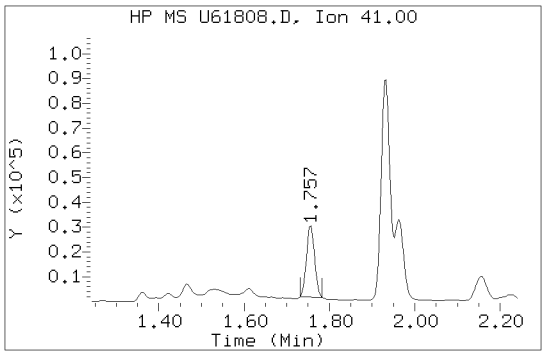
BEFORE

MASS
41
AREA
39201
HEIGHT
28941
26-Jun-2024
12:29
RUCHA
PATEL



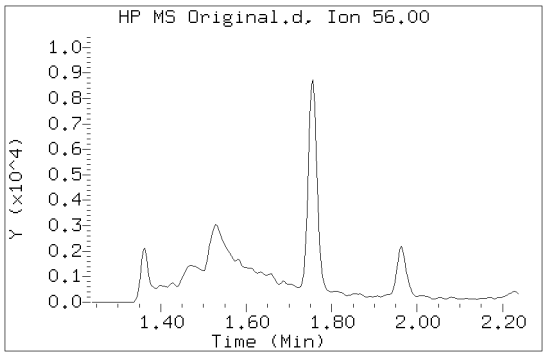
AFTER

MASS
41
AREA
39201
HEIGHT
28941
26-Jun-2024
12:29
RUCHA
PATEL



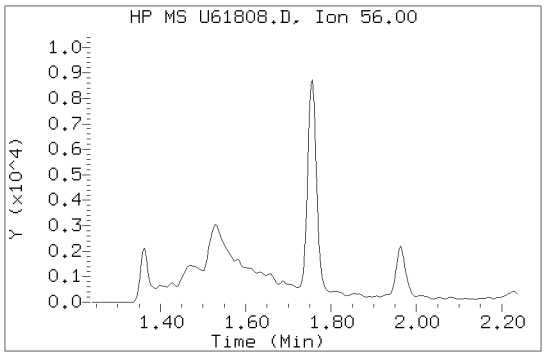
BEFORE

MASS
56
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



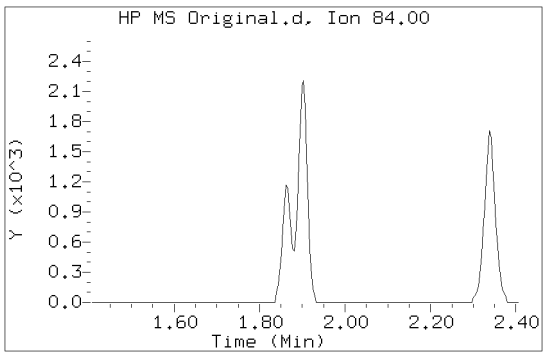
AFTER

MASS
56
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



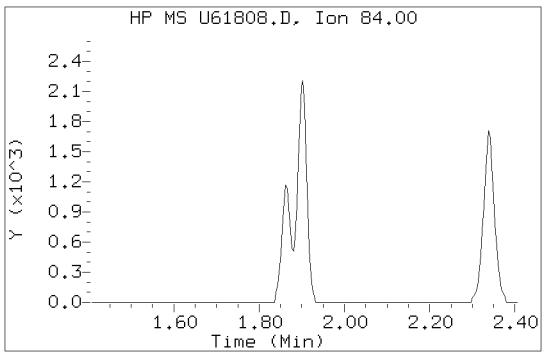
BEFORE

MASS
84
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
84
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL

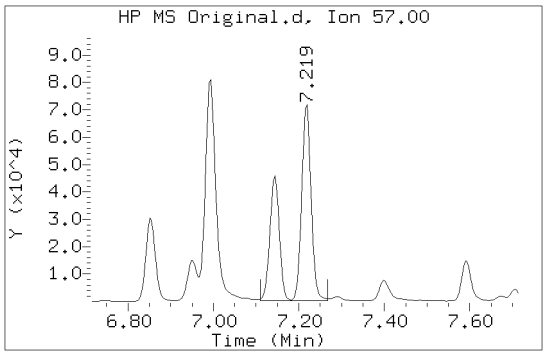


sec-Butyl Ether (6863-58-7)

Reason Code:

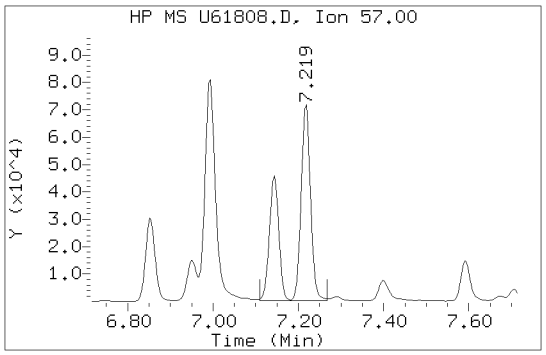
BEFORE

MASS
57
AREA
181834
HEIGHT
71454
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
57
AREA
181834
HEIGHT
71454
26-Jun-2024
12:29
RUCHA
PATEL



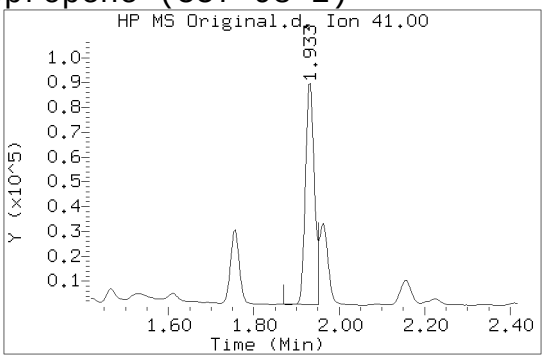
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61808.D
Inj Date : 18-JUN-2024 13:42
InstruID : VOA9.i
LabSampID : VSTD050

2-Chloropropene (557-98-2)

Reason Code:

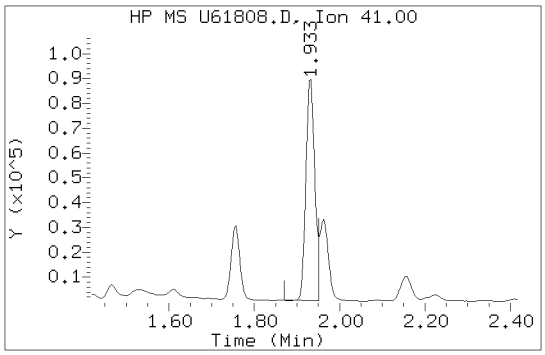
BEFORE

MASS
41
AREA
131923
HEIGHT
88872
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
41
AREA
131923
HEIGHT
88872
26-Jun-2024
12:29
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61809.D Page 1
Report Date: 26-Jun-2024 12:30

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61809.D
Lab Smp Id: VSTD100 Client Smp ID: VSTD100
Inj Date : 18-JUN-2024 14:04
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD100;VSTD100;1;8
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240618.b\8260C.m
Meth Date : 26-Jun-2024 12:30 VOA9.i Quant Type: ISTD
Cal Date : 18-JUN-2024 13:42 Cal File: U61808.D
Als bottle: 9 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.815	4.815	(1.000)	274491	50.0000	
2 Dichlorodifluoromethane	85	1.164	1.164	(0.242)	138582	100.000	97.66(M)
3 Chloromethane	50	1.292	1.292	(0.268)	392022	100.000	97.88
4 Propionitrile	54	4.332	4.332	(0.900)	236808	1000.00	994.46
5 Vinyl Chloride	62	1.374	1.374	(0.285)	205871	100.000	97.61(M)
6 Bromomethane	94	1.610	1.610	(0.334)	70725	100.000	98.13
7 Chloroethane	64	1.696	1.696	(0.352)	140916	100.000	98.16
8 Trichlorofluoromethane	101	1.895	1.895	(0.394)	249665	100.000	98.14
9 Acrolein	56	2.262	2.262	(0.470)	16198	200.000	194.18
10 Acetone	43	2.405	2.405	(0.499)	121308	200.000	199.21
11 1,1-Dichloroethene	96	2.330	2.330	(0.484)	147387	100.000	97.13
12 Isobutyl Alcohol	43	5.280	5.280	(1.097)	493602	2000.00	1967.01
13 Acetonitrile	39	2.667	2.667	(0.554)	203019	1000.00	997.07
14 Allyl Chloride	41	2.667	2.667	(0.554)	468738	100.000	99.85
15 Iodomethane	142	2.461	2.461	(0.511)	60408	200.000	199.89
16 Acrylonitrile	53	3.061	3.061	(0.636)	124622	200.000	198.66
17 Methylene Chloride	84	2.791	2.791	(0.580)	183361	100.000	98.39
18 Methyl tert-butyl ether	73	3.076	3.076	(0.639)	449037	100.000	99.71
19 Carbon Disulfide	76	2.517	2.517	(0.523)	873493	200.000	194.98
20 trans-1,2-Dichloroethene	96	3.053	3.053	(0.634)	164953	100.000	98.45

21 Vinyl Acetate	43	4.336	4.336 (0.900)	174135	200.000	196.11
22 1,1-Dichloroethane	63	3.511	3.511 (0.729)	303561	100.000	97.97

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61809.D Page 2
Report Date: 26-Jun-2024 12:30

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.605	3.605	(0.749)	258507	100.000	93.18
	24 2-Butanone	43	4.257	4.257	(0.884)	168426	200.000	197.39
	25 Methacrylonitrile	41	4.489	4.489	(0.932)	106522	100.000	99.13(a)
	26 2,2-Dichloropropane	77	4.178	4.178	(0.868)	237266	100.000	97.73
	27 cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	192214	100.000	98.79
	28 Chloroform	83	4.572	4.572	(0.949)	310538	100.000	98.32
	29 Bromochloromethane	128	4.467	4.467	(0.928)	95582	100.000	98.82
$	30 Dibromofluoromethane	113	4.744	4.744	(0.985)	169532	100.000	97.09
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.984)	255191	100.000	97.59
	32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	234028	100.000	90.63
	33 1,2-Dichloroethane	62	5.171	5.171	(0.932)	242525	100.000	100.93
	34 Carbon Tetrachloride	117	4.909	4.909	(0.885)	213758	100.000	98.56(M)
$	35 1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	196889	100.000	94.44
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	398227	50.0000	
	37 Benzene	78	5.138	5.138	(0.926)	714900	100.000	98.39
	38 Trichloroethene	130	5.786	5.786	(1.043)	186020	100.000	98.27
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	227007	100.000	98.80
	40 Methyl Methacrylate	41	5.820	5.820	(1.209)	66054	100.000	100.94
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	14497	200.000	209.10
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	191530	100.000	99.57(M)
	43 2-Nitropropane	43	6.506	6.506	(1.351)	47196	100.000	105.72
	44 Dibromomethane	93	6.116	6.116	(1.102)	112590	100.000	98.76
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	372106	200.000	200.21
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	281976	100.000	97.09
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	369238	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	630884	100.000	98.78
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	242704	100.000	99.79
	50 Toluene	91	6.978	6.978	(0.853)	753068	100.000	98.96
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	235909	100.000	99.25
	52 2-Hexanone	43	7.214	7.214	(0.881)	329716	200.000	200.24
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	139478	100.000	101.91
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	300224	100.000	99.31
	55 Dibromochloromethane	129	7.691	7.691	(0.940)	181665	100.000	99.91
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	149621	100.000	94.68
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	166991	100.000	99.84
	58 1-Chlorohexane	55	8.197	8.197	(1.477)	139179	100.000	96.34
	59 Chlorobenzene	112	8.208	8.208	(1.003)	489280	100.000	98.81
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	174982	100.000	97.34
	61 Ethylbenzene	106	8.305	8.305	(1.015)	248726	100.000	99.04(M)
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	632972	200.000	208.40
	63 o-Xylene	106	8.748	8.748	(1.069)	310497	100.000	104.11(M)
	64 Styrene	104	8.763	8.763	(1.071)	528485	100.000	103.63
	66 Bromoform	173	8.920	8.920	(1.090)	118965	100.000	99.99
	67 Isopropylbenzene	105	9.063	9.063	(1.107)	779246	100.000	99.52
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	229512	100.000	100.06
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	238824	100.000	97.70
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	205486	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	230682	100.000	100.34(M)
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	50141	100.000	100.32
	73 n-Propylbenzene	91	9.415	9.415	(0.926)	907277	100.000	101.70
	74 Bromobenzene	156	9.318	9.318	(0.916)	219358	100.000	100.32
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	630055	100.000	109.37

76	2-Chlorotoluene	91	9.482	9.482 (0.932)	552923	100.000	99.86
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	635232	100.000	99.32

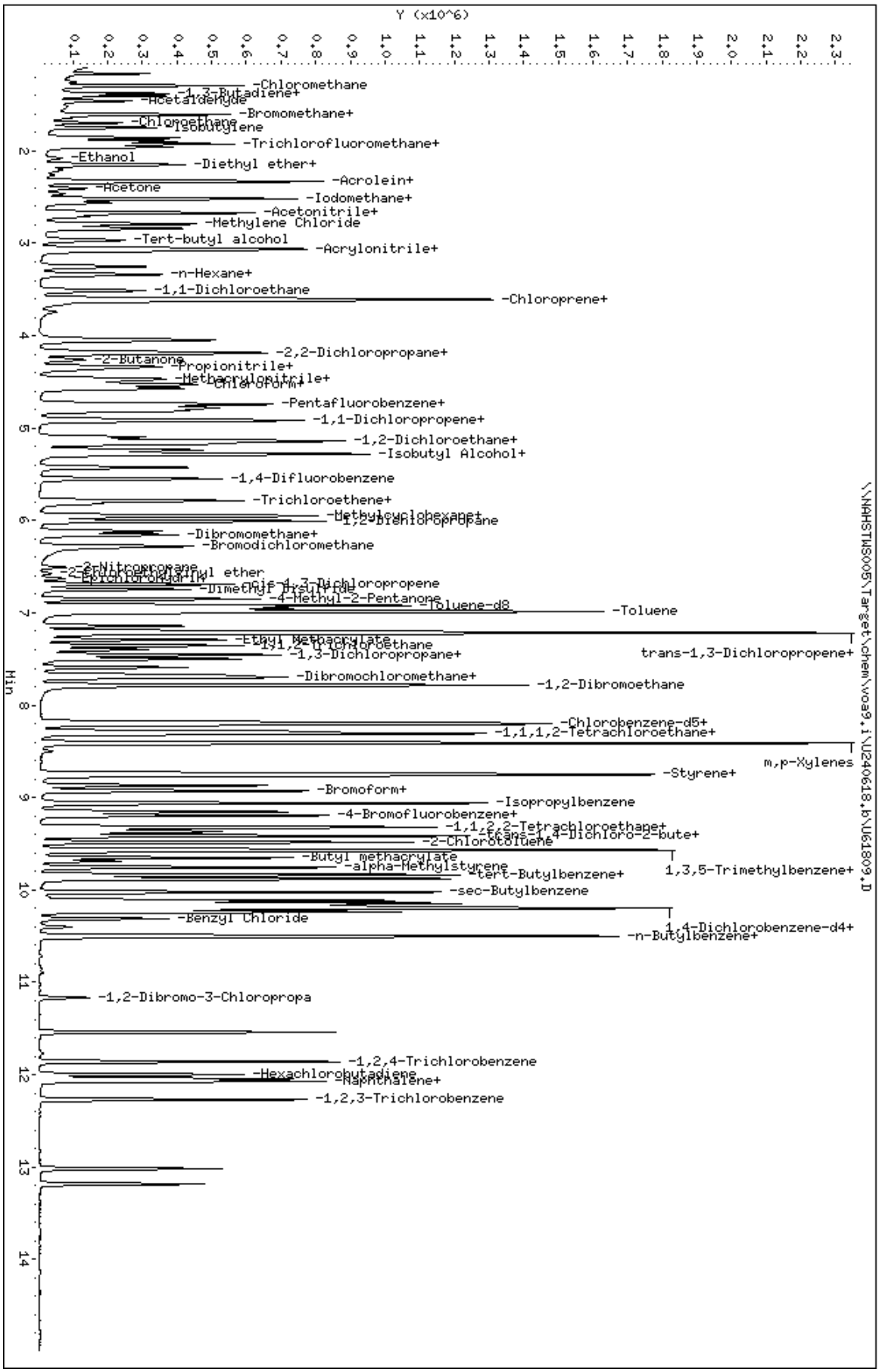
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.839	9.839	(0.967)	549181	100.000	99.21
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	600331	100.000	100.40
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	732962	100.000	100.17
82	p-Isopropyltoluene	119	10.146	10.146	(0.997)	638219	100.000	103.59
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	387691	100.000	99.45
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	399255	100.000	99.00
86	Benzyl Chloride	91	10.311	10.311	(1.260)	239643	100.000	99.11
87	n-Butylbenzene	91	10.495	10.495	(1.032)	557287	100.000	98.73
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	379859	100.000	99.91
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	29664	100.000	98.82
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	256199	100.000	99.37
91	Hexachlorobutadiene	225	12.002	12.002	(1.180)	109824	100.000	97.88
92	Naphthalene	128	12.069	12.069	(1.186)	571149	100.000	100.46
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	230050	100.000	99.54
146	Methyl acetate	43	2.709	2.709	(0.563)	135298	100.000	99.78
138	Freon TF	101	2.334	2.334	(0.485)	145230	100.000	96.75
141	Cyclohexane	56	4.782	4.782	(0.993)	240972	100.000	97.13
142	Tetrahydrofuran	42	4.538	4.538	(0.942)	61079	200.000	194.50
147	Methylcyclohexane	55	5.944	5.944	(1.071)	419962	100.000	95.95
135	1,4-Dioxane	88	6.165	6.165	(1.280)	42162	2000.00	1977.87
132	n-Butanol	56	5.820	5.820	(1.209)	95229	2000.00	2012.04
136	n-Hexane	57	3.338	3.338	(0.693)	175410	100.000	97.18
139	Diethyl ether	59	2.143	2.143	(0.445)	130487	100.000	99.77
148	Tert-butyl alcohol	59	2.963	2.963	(0.615)	285061	2000.00	2000.97
149	Isopropyl alcohol	45	2.559	2.559	(0.531)	222580	2000.00	1981.30
156	Diisopropyl ether	45	3.616	3.616	(0.751)	575279	100.000	99.86
162	Butyl acrylate	55	8.733	8.733	(1.067)	312199	100.000	99.57
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	760346	100.000	99.99
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	542512	100.000	101.80
167	Ethanol	45	2.079	2.079	(0.432)	44666	2000.00	1970.38
172	tert-Butyl formate	59	5.239	5.239	(1.088)	292214	200.000	200.04(AM)
151	4-Methyl-2-pentanol	45	7.214	7.214	(1.300)	1372071	2000.00	1995.23
140	1,3-Butadiene	54	1.404	1.404	(0.292)	86005	100.000	92.52
182	Epichlorohydrin	57	6.630	6.630	(1.195)	28840	400.000	411.76
M 94	1,2-Dichloroethylene (total)	96				357167	200.000	(a)
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	238829	100.000	99.75
130	Ethyl Acetate	43	4.527	4.527	(0.940)	77881	100.000	98.98
131	Methyl Acrylate	55	4.365	4.365	(0.907)	196336	100.000	99.76
189	n-Butyl acetate	43	7.706	7.706	(0.941)	279685	100.000	100.64
134	Cyclohexanone	55	9.153	9.153	(0.900)	265721	2000.00	2069.20
185	Isoprene	39	2.154	2.154	(0.447)	39739	100.000	97.48
188	Isopropyl acetate	43	5.280	5.280	(0.951)	490173	100.000	99.61
150	Allyl alcohol	57	3.338	3.338	(0.693)	175410	2000.00	1943.77
194	Acetaldehyde	44	1.457	1.457	(0.303)	147429	400.000	389.38(M)
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	183430	100.000	99.92
202	Isobutylene	41	1.749	1.749	(0.363)	81428	100.000	101.63(M)
133	Ethyl Acrylate	55	5.944	5.944	(1.234)	419962	100.000	94.45
163	Butyl methacrylate	41	9.647	9.647	(0.948)	182934	100.000	101.49
159	Propylene oxide	43	2.199	2.199	(0.457)	23025	200.000	201.93(A)
178	Ethylene oxide	44	1.603	1.603	(0.333)	692716	200.000	199.99
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	220827	100.000	101.35
204	Tetrahydrothiophene	60	7.672	7.672	(0.937)	191282	100.000	100.61(A)

205 sec-Butyl Ether	57	7.218	7.218 (0.882)	369992	100.000	100.61(AM)
187 n-Amyl acetate	43	8.931	8.931 (1.091)	287307	100.000	98.59

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
206 2-Chloropropene	41	1.925	1.925	(0.400)	259705	100.000	93.85(AM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\woa9,i\U240618,b\U61809,D
Date : 18-JUN-2024 14:04
Client ID: VSTD100
Sample Info: VSTD100;VSTD100;1;8
Purge Volume: 5.0
Column phase: DB624

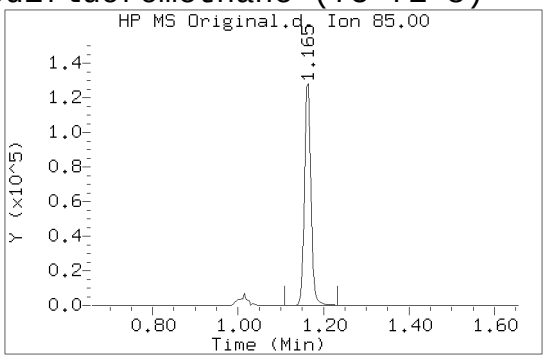
Instrument: WOA9,i
Operator: TS
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61809.D
Inj Date : 18-JUN-2024 14:04
InstruID : VOA9.i
LabSampID : VSTD100

Dichlorodifluoromethane (75-71-8)

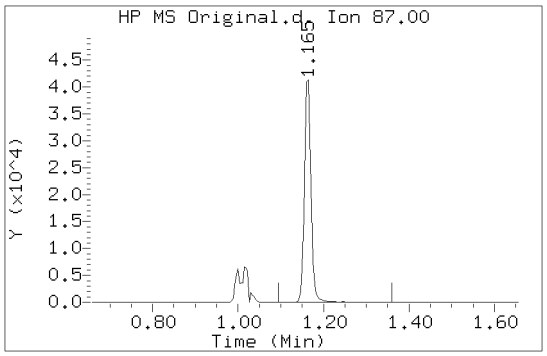
BEFORE

MASS
85
AREA
138582
HEIGHT
128130
26-Jun-2024
12:29
RUCHA
PATEL



BEFORE

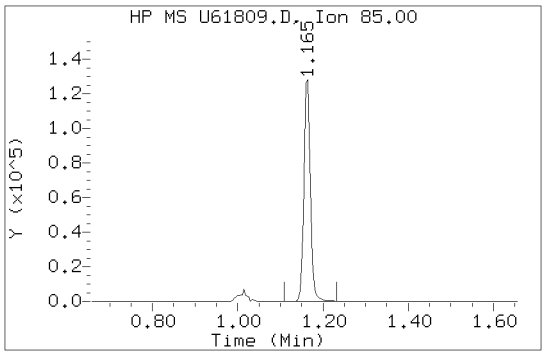
MASS
87
AREA
45136
HEIGHT
41320
26-Jun-2024
12:29
RUCHA
PATEL



Reason Code:

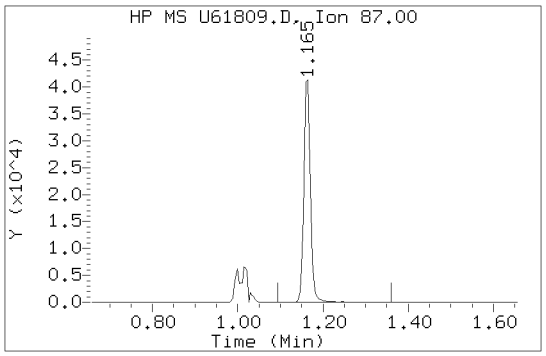
AFTER

MASS
85
AREA
138582
HEIGHT
128130
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

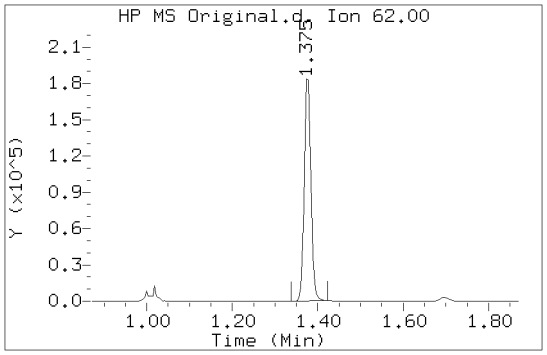
MASS
87
AREA
45136
HEIGHT
41320
26-Jun-2024
12:29
RUCHA
PATEL



Vinyl Chloride (75-01-4)

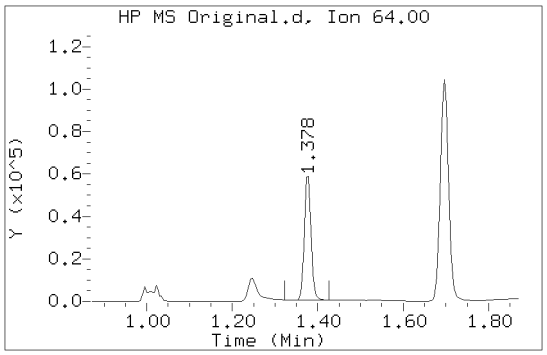
BEFORE

MASS
62
AREA
205871
HEIGHT
183563
26-Jun-2024
12:29
RUCHA
PATEL



BEFORE

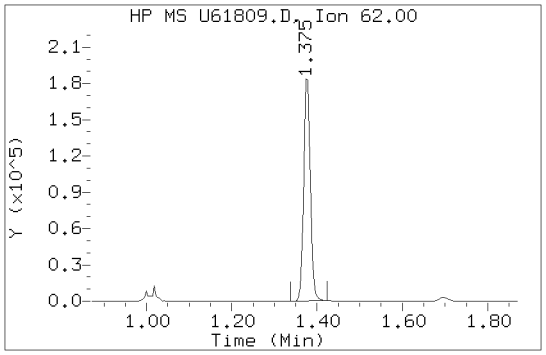
MASS
64
AREA
65305
HEIGHT
58328
26-Jun-2024
12:29
RUCHA
PATEL



Reason Code:

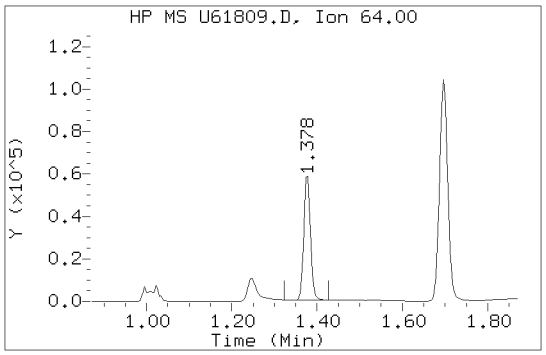
AFTER

MASS
62
AREA
205871
HEIGHT
183563
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
64
AREA
65305
HEIGHT
58328
26-Jun-2024
12:29
RUCHA
PATEL

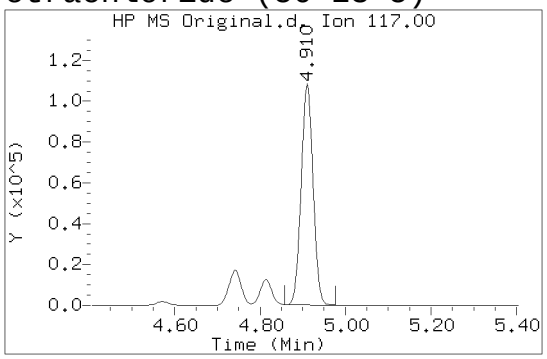


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61809.D
Inj Date : 18-JUN-2024 14:04
InstruID : VOA9.i
LabSampID : VSTD100

Carbon Tetrachloride (56-23-5)

BEFORE

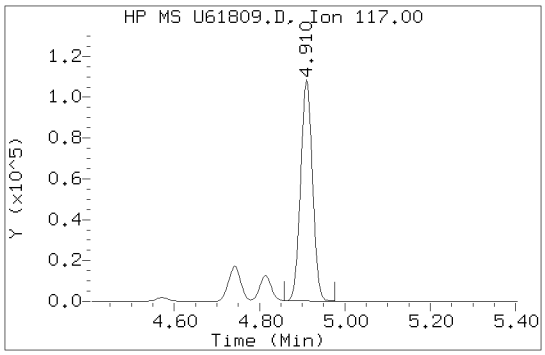
MASS
117
AREA
213758
HEIGHT
108369
26-Jun-2024
12:29
RUCHA
PATEL



Reason Code:

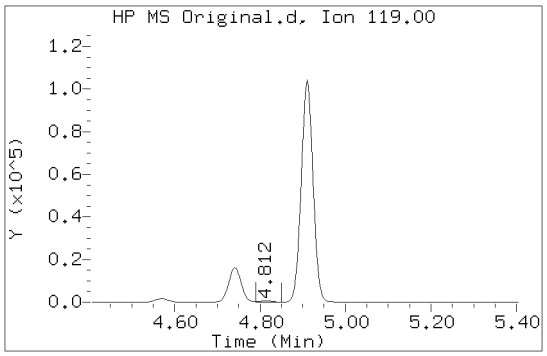
AFTER

MASS
117
AREA
213758
HEIGHT
108369
26-Jun-2024
12:29
RUCHA
PATEL



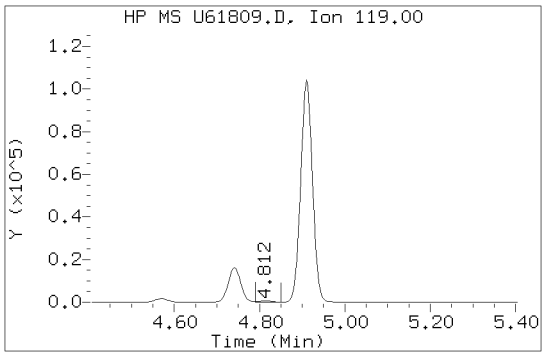
BEFORE

MASS
119
AREA
1252
HEIGHT
595
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

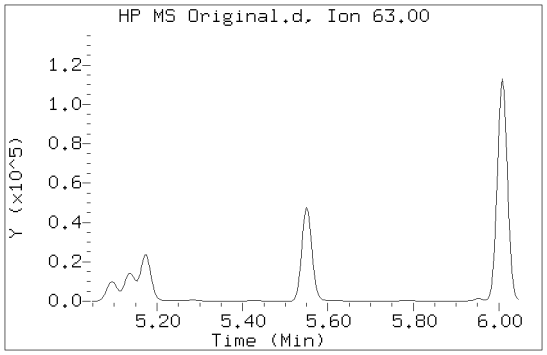
MASS
119
AREA
1252
HEIGHT
595
26-Jun-2024
12:29
RUCHA
PATEL



1,2-Dichloropropane (78-87-5)

BEFORE

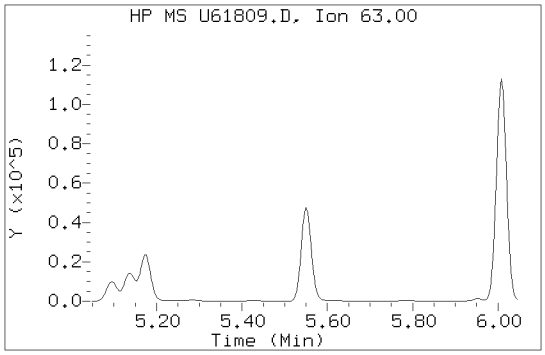
MASS
63
AREA
191530
HEIGHT
112928
26-Jun-2024
12:29
RUCHA
PATEL



Reason Code:

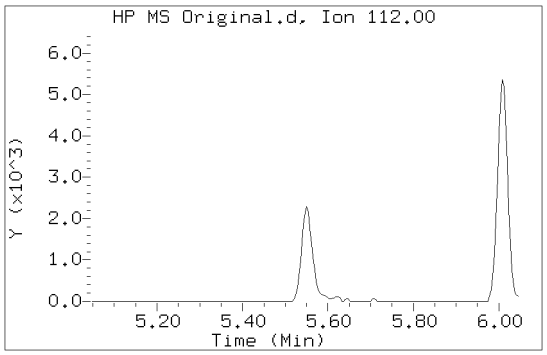
AFTER

MASS
63
AREA
191530
HEIGHT
112928
26-Jun-2024
12:29
RUCHA
PATEL



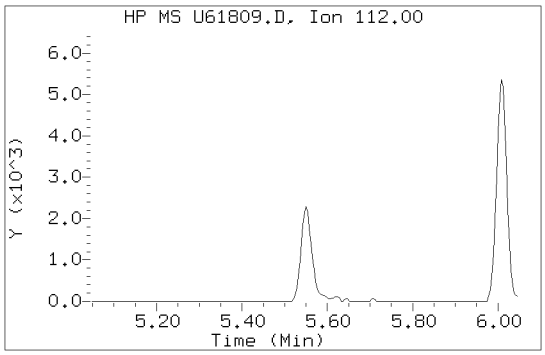
BEFORE

MASS
112
AREA
8198
HEIGHT
5246
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
112
AREA
8198
HEIGHT
5246
26-Jun-2024
12:29
RUCHA
PATEL

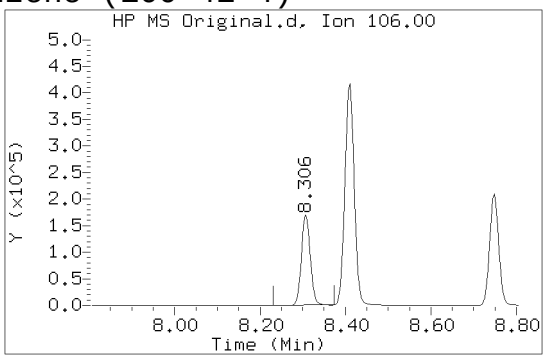


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61809.D
Inj Date : 18-JUN-2024 14:04
InstruID : VOA9.i
LabSampID : VSTD100

Ethylbenzene (100-41-4)

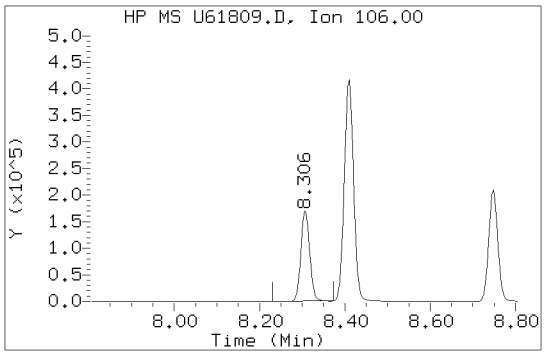
BEFORE

MASS
106
AREA
248726
HEIGHT
169723
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

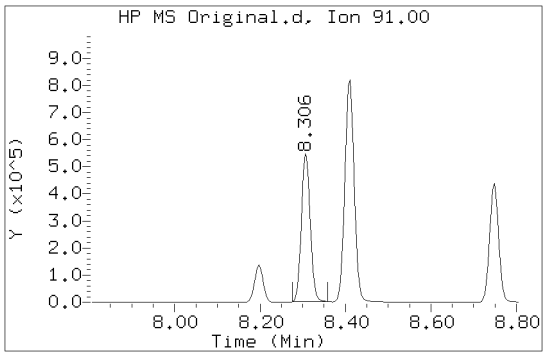
MASS
106
AREA
248726
HEIGHT
169723
26-Jun-2024
12:29
RUCHA
PATEL



Reason Code:

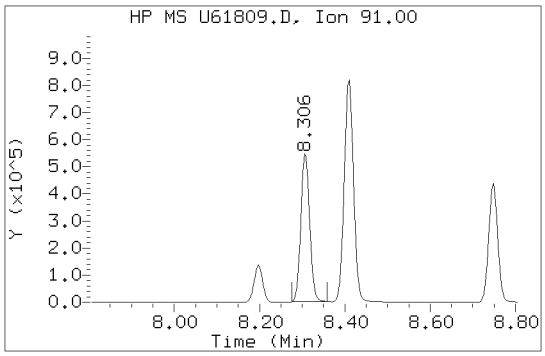
BEFORE

MASS
91
AREA
800763
HEIGHT
545246
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

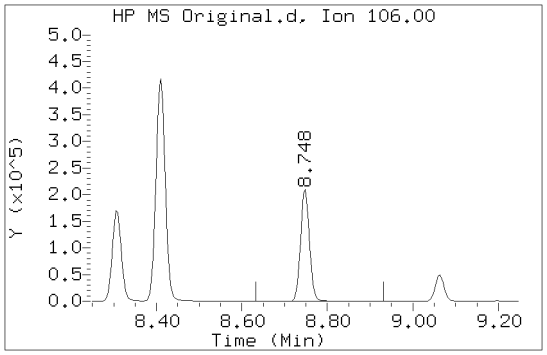
MASS
91
AREA
800763
HEIGHT
545246
26-Jun-2024
12:29
RUCHA
PATEL



o-Xylene (95-47-6)

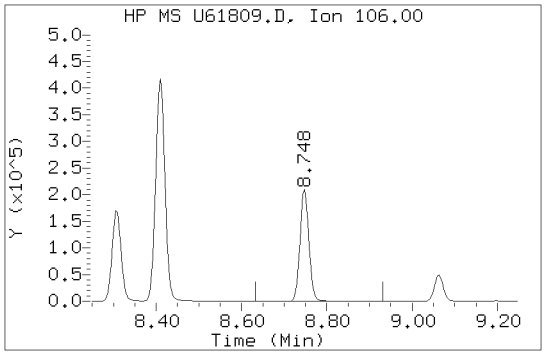
BEFORE

MASS
106
AREA
310497
HEIGHT
209728
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

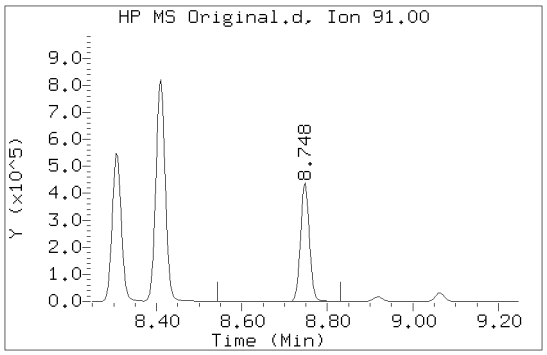
MASS
106
AREA
310497
HEIGHT
209728
26-Jun-2024
12:29
RUCHA
PATEL



Reason Code:

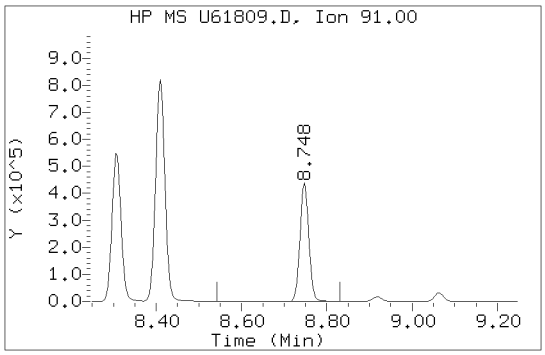
BEFORE

MASS
91
AREA
641217
HEIGHT
438031
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
91
AREA
641217
HEIGHT
438031
26-Jun-2024
12:29
RUCHA
PATEL

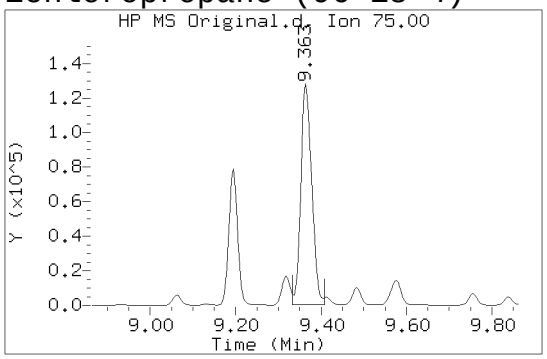


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61809.D
Inj Date : 18-JUN-2024 14:04
InstruID : VOA9.i
LabSampID : VSTD100

1,2,3-Trichloropropane (96-18-4)

BEFORE

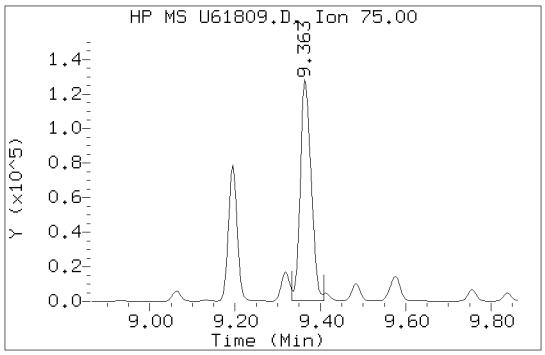
MASS
75
AREA
230682
HEIGHT
127835
26-Jun-2024
12:29
RUCHA
PATEL



Reason Code:

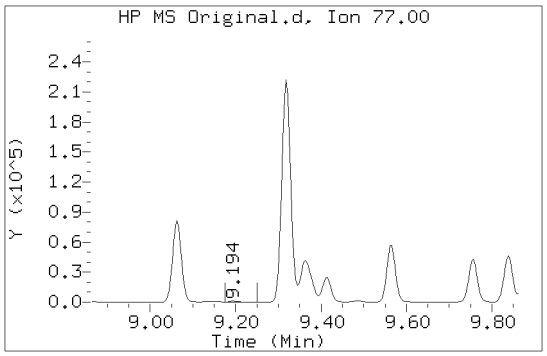
AFTER

MASS
75
AREA
230682
HEIGHT
127835
26-Jun-2024
12:29
RUCHA
PATEL



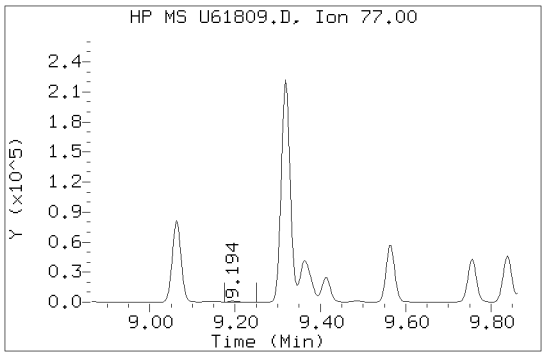
BEFORE

MASS
77
AREA
1387
HEIGHT
976
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

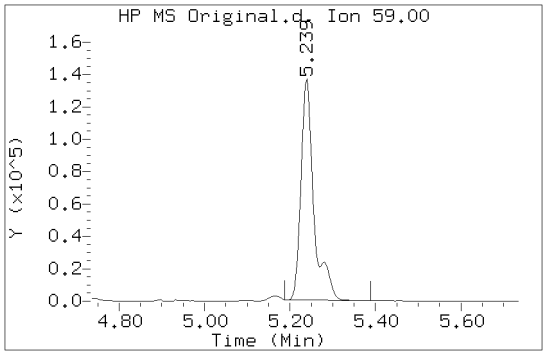
MASS
77
AREA
1387
HEIGHT
976
26-Jun-2024
12:29
RUCHA
PATEL



tert-Butyl formate (762-75-4)

BEFORE

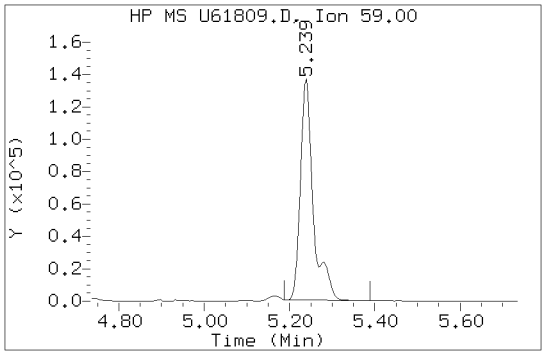
MASS
59
AREA
292214
HEIGHT
136524
26-Jun-2024
12:29
RUCHA
PATEL



Reason Code:

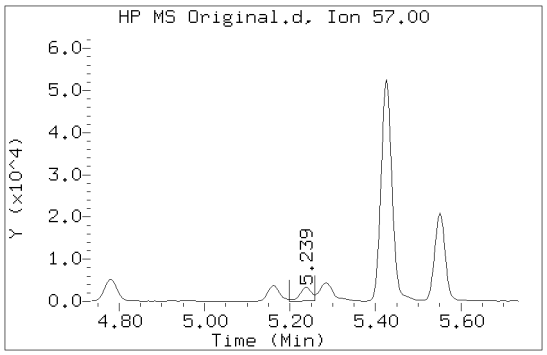
AFTER

MASS
59
AREA
292214
HEIGHT
136524
26-Jun-2024
12:29
RUCHA
PATEL



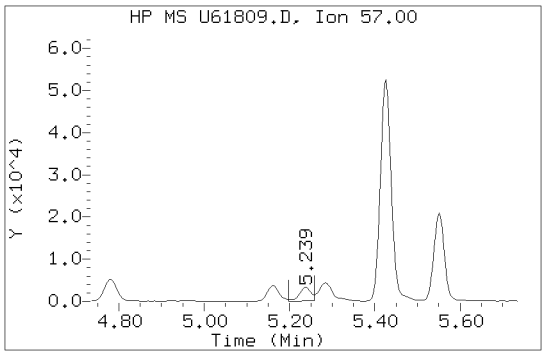
BEFORE

MASS
57
AREA
6374
HEIGHT
3282
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
57
AREA
6374
HEIGHT
3282
26-Jun-2024
12:29
RUCHA
PATEL



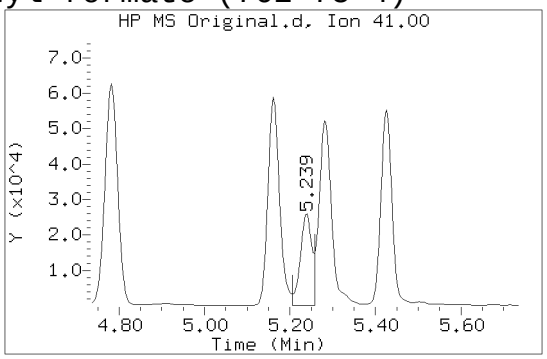
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61809.D
Inj Date : 18-JUN-2024 14:04
InstruID : VOA9.i
LabSampID : VSTD100

tert-Butyl formate (762-75-4)

Reason Code:

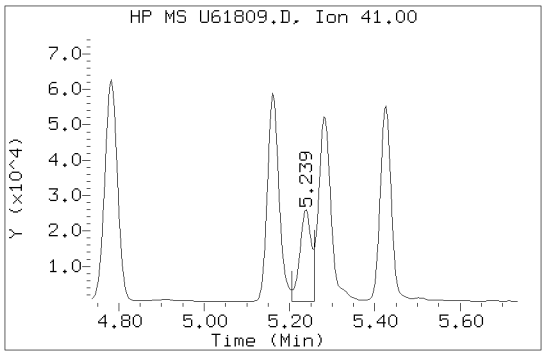
BEFORE

MASS
41
AREA
50897
HEIGHT
25826
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
41
AREA
50897
HEIGHT
25826
26-Jun-2024
12:29
RUCHA
PATEL

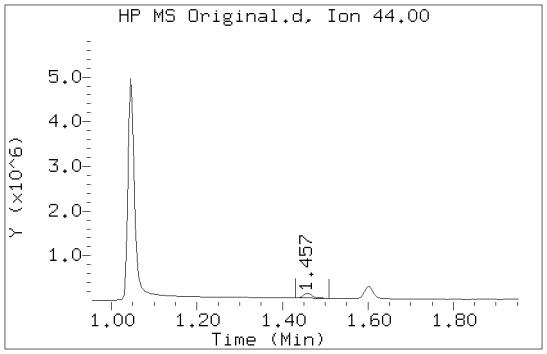


Acetaldehyde (75-07-0)

Reason Code:

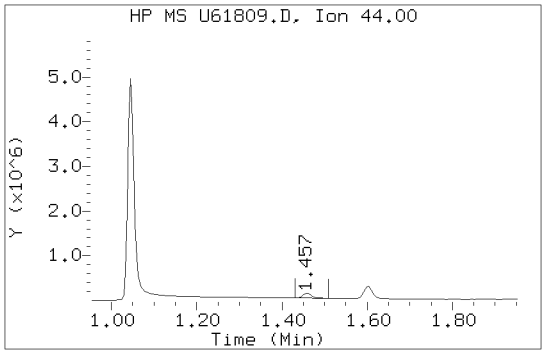
BEFORE

MASS
44
AREA
147429
HEIGHT
107434
26-Jun-2024
12:29
RUCHA
PATEL



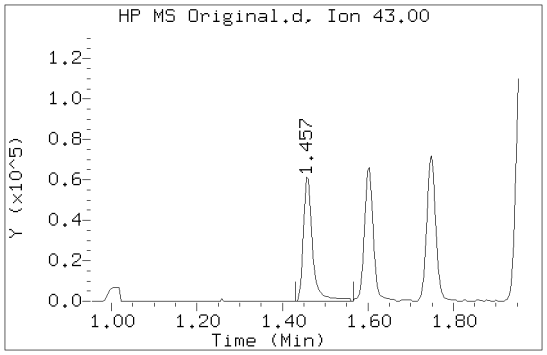
AFTER

MASS
44
AREA
147429
HEIGHT
107434
26-Jun-2024
12:29
RUCHA
PATEL



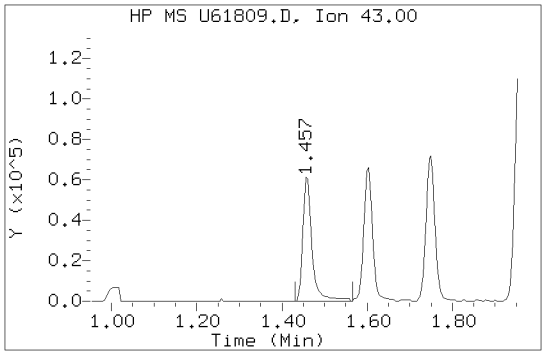
BEFORE

MASS
43
AREA
93231
HEIGHT
61192
26-Jun-2024
12:29
RUCHA
PATEL



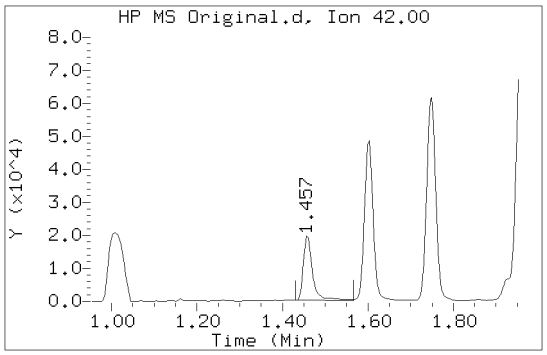
AFTER

MASS
43
AREA
93231
HEIGHT
61192
26-Jun-2024
12:29
RUCHA
PATEL



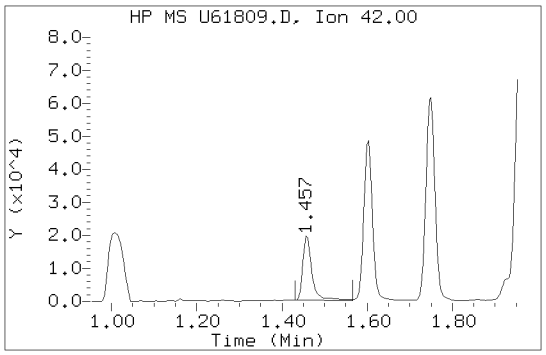
BEFORE

MASS
42
AREA
29636
HEIGHT
19527
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
42
AREA
29636
HEIGHT
19527
26-Jun-2024
12:29
RUCHA
PATEL

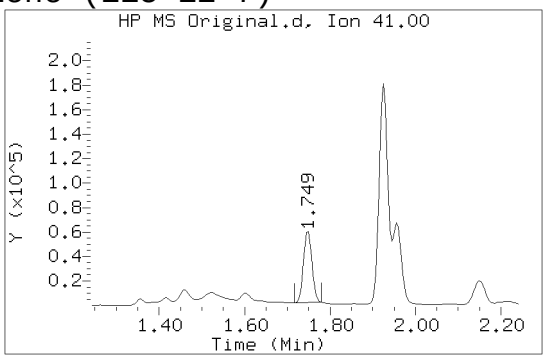


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61809.D
Inj Date : 18-JUN-2024 14:04
InstruID : VOA9.i
LabSampID : VSTD100

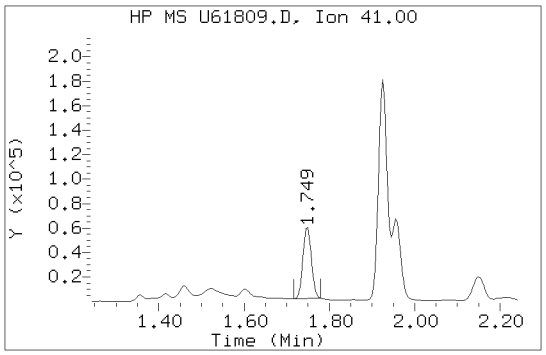
Isobutylene (115-11-7)

Reason Code:

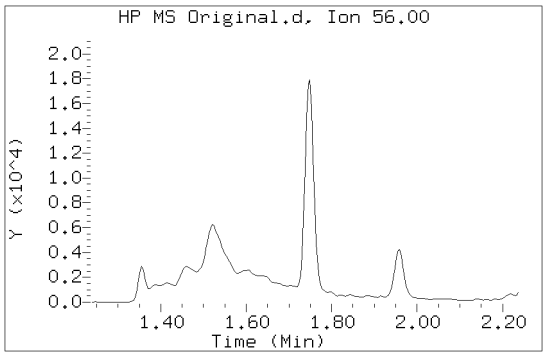
BEFORE
MASS
41
AREA
81428
HEIGHT
58155
26-Jun-2024
12:29
RUCHA
PATEL



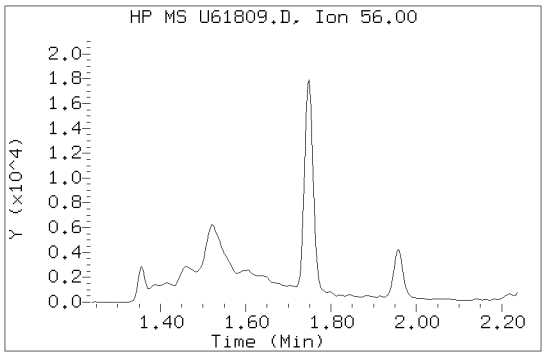
AFTER
MASS
41
AREA
81428
HEIGHT
58155
26-Jun-2024
12:29
RUCHA
PATEL



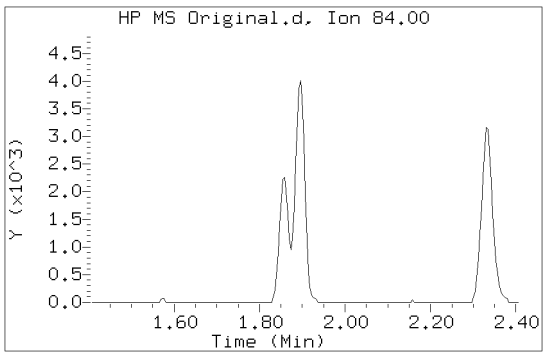
BEFORE
MASS
56
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



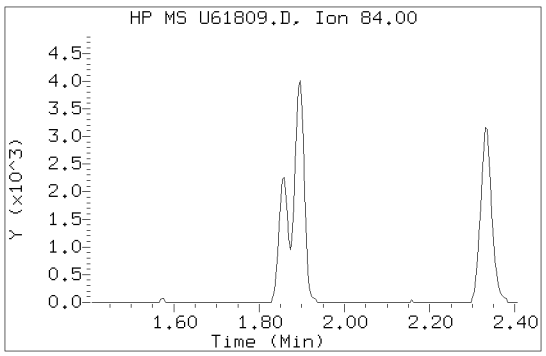
AFTER
MASS
56
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



BEFORE
MASS
84
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



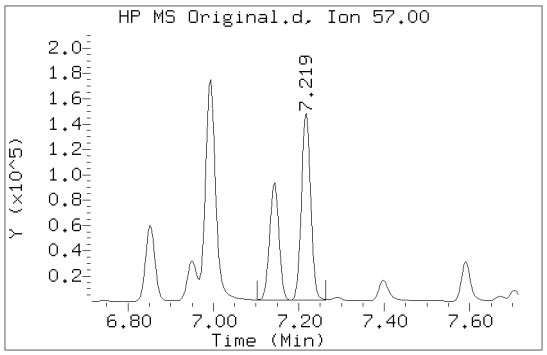
AFTER
MASS
84
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



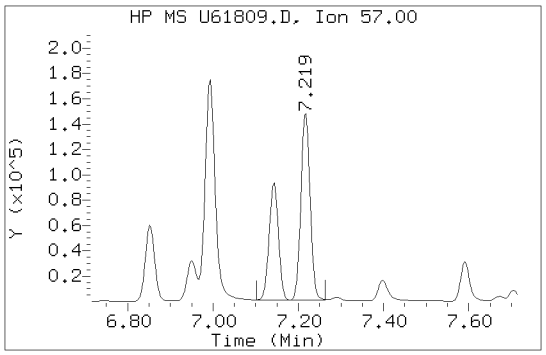
sec-Butyl Ether (6863-58-7)

Reason Code:

BEFORE
MASS
57
AREA
369992
HEIGHT
147603
26-Jun-2024
12:29
RUCHA
PATEL



AFTER
MASS
57
AREA
369992
HEIGHT
147603
26-Jun-2024
12:29
RUCHA
PATEL



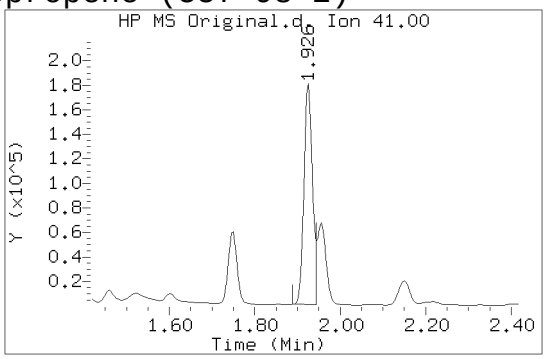
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61809.D
Inj Date : 18-JUN-2024 14:04
InstruID : VOA9.i
LabSampID : VSTD100

2-Chloropropene (557-98-2)

Reason Code:

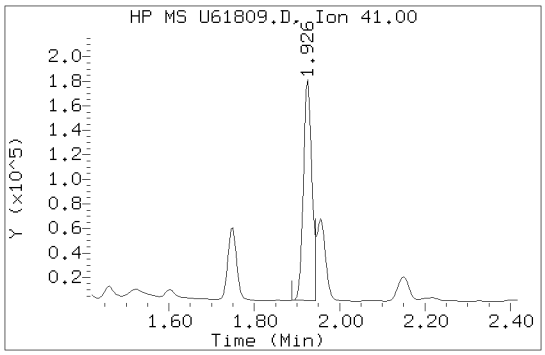
BEFORE

MASS
41
AREA
259705
HEIGHT
180099
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
41
AREA
259705
HEIGHT
180099
26-Jun-2024
12:29
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61810.D Page 1
Report Date: 26-Jun-2024 12:30

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61810.D
Lab Smp Id: VSTD150 Client Smp ID: VSTD150
Inj Date : 18-JUN-2024 14:25
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD150;VSTD150;1;9
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240618.b\8260C.m
Meth Date : 26-Jun-2024 12:30 VOA9.i Quant Type: ISTD
Cal Date : 18-JUN-2024 14:04 Cal File: U61809.D
Als bottle: 10 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.815	4.815	(1.000)	273885	50.0000	
2	Dichlorodifluoromethane	85	1.164	1.164	(0.242)	214787	150.000	153.10(M)
3	Chloromethane	50	1.295	1.295	(0.269)	581889	150.000	152.59
4	Propionitrile	54	4.335	4.335	(0.900)	359865	1500.00	1503.62
5	Vinyl Chloride	62	1.378	1.378	(0.286)	319822	150.000	151.84(M)
6	Bromomethane	94	1.610	1.610	(0.334)	109853	150.000	149.77
7	Chloroethane	64	1.696	1.696	(0.352)	213923	150.000	151.61
8	Trichlorofluoromethane	101	1.899	1.899	(0.394)	387386	150.000	152.61
9	Acrolein	56	2.262	2.262	(0.470)	25181	300.000	306.55
10	Acetone	43	2.409	2.409	(0.500)	175611	300.000	301.86
11	1,1-Dichloroethene	96	2.334	2.334	(0.485)	230535	150.000	152.76
12	Isobutyl Alcohol	43	5.284	5.284	(1.097)	745640	3000.00	2975.41
13	Acetonitrile	39	2.671	2.671	(0.555)	301576	1500.00	1487.48
14	Allyl Chloride	41	2.671	2.671	(0.555)	701364	150.000	149.54
15	Iodomethane	142	2.465	2.465	(0.512)	127903	300.000	89.16
16	Acrylonitrile	53	3.065	3.065	(0.636)	186117	300.000	298.42
17	Methylene Chloride	84	2.795	2.795	(0.580)	274023	150.000	151.01
18	Methyl tert-butyl ether	73	3.080	3.080	(0.640)	678008	150.000	150.15
19	Carbon Disulfide	76	2.521	2.521	(0.524)	1361579	300.000	304.36
20	trans-1,2-Dichloroethene	96	3.057	3.057	(0.635)	250843	150.000	151.24

21 Vinyl Acetate	43	4.339	4.339 (0.901)	265617	300.000	302.64
22 1,1-Dichloroethane	63	3.514	3.514 (0.730)	460862	150.000	150.99

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.608	3.608	(0.749)	400585	150.000	144.71
	24 2-Butanone	43	4.260	4.260	(0.885)	254053	300.000	302.18
	25 Methacrylonitrile	41	4.493	4.493	(0.933)	162885	150.000	152.61(a)
	26 2,2-Dichloropropane	77	4.182	4.182	(0.868)	369154	150.000	152.36
	27 cis-1,2-Dichloroethene	96	4.197	4.197	(0.872)	290661	150.000	150.32
	28 Chloroform	83	4.572	4.572	(0.949)	467313	150.000	150.97
	29 Bromochloromethane	128	4.470	4.470	(0.928)	142135	150.000	149.97
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	245616	150.000	140.97
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.985)	395012	150.000	151.39
	32 1,1-Dichloropropene	75	4.924	4.924	(0.887)	361264	150.000	140.16
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	359831	150.000	150.78
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	334442	150.000	154.49(M)
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	284196	150.000	136.62
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	397522	50.0000	
	37 Benzene	78	5.138	5.138	(0.925)	1081341	150.000	150.69
	38 Trichloroethene	130	5.786	5.786	(1.042)	283650	150.000	150.45
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	349788	150.000	150.83
	40 Methyl Methacrylate	41	5.824	5.824	(1.209)	100803	150.000	149.87
	41 2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	33198	300.000	298.58
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	286453	150.000	149.54(M)
	43 2-Nitropropane	43	6.506	6.506	(1.351)	69404	150.000	155.81
	44 Dibromomethane	93	6.120	6.120	(1.102)	168033	150.000	149.65
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	572345	300.000	301.57
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	435685	150.000	149.72
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	375984	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	922894	150.000	141.91
	49 Ethyl Methacrylate	69	7.289	7.289	(1.312)	379458	150.000	150.15
	50 Toluene	91	6.982	6.982	(0.853)	1142857	150.000	150.63
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	363534	150.000	150.88
	52 2-Hexanone	43	7.218	7.218	(0.882)	511211	300.000	300.98
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	206905	150.000	149.20
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	452223	150.000	150.16
	55 Dibromochloromethane	129	7.690	7.690	(0.940)	280381	150.000	150.62
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	230388	150.000	143.18
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	251754	150.000	149.55
	58 1-Chlorohexane	55	8.197	8.197	(1.476)	228309	150.000	153.60
	59 Chlorobenzene	112	8.208	8.208	(1.003)	745037	150.000	150.35
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	268267	150.000	146.55
	61 Ethylbenzene	106	8.305	8.305	(1.015)	381170	150.000	150.10(M)
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	971554	300.000	314.13
	63 o-Xylene	106	8.748	8.748	(1.069)	470189	150.000	154.82(M)
	64 Styrene	104	8.763	8.763	(1.071)	813692	150.000	156.70
	66 Bromoform	173	8.920	8.920	(1.090)	188817	150.000	150.77
	67 Isopropylbenzene	105	9.062	9.062	(1.107)	1219083	150.000	152.90
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	347484	150.000	148.65
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	349186	150.000	140.29
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	211837	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	357842	150.000	148.36(M)
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	77671	150.000	149.60
	73 n-Propylbenzene	91	9.415	9.415	(0.926)	1415464	150.000	153.91
	74 Bromobenzene	156	9.317	9.317	(0.916)	330613	150.000	147.83
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	994684	150.000	167.49

76	2-Chlorotoluene	91	9.482	9.482 (0.932)	835134	150.000	148.25
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	978479	150.000	149.40

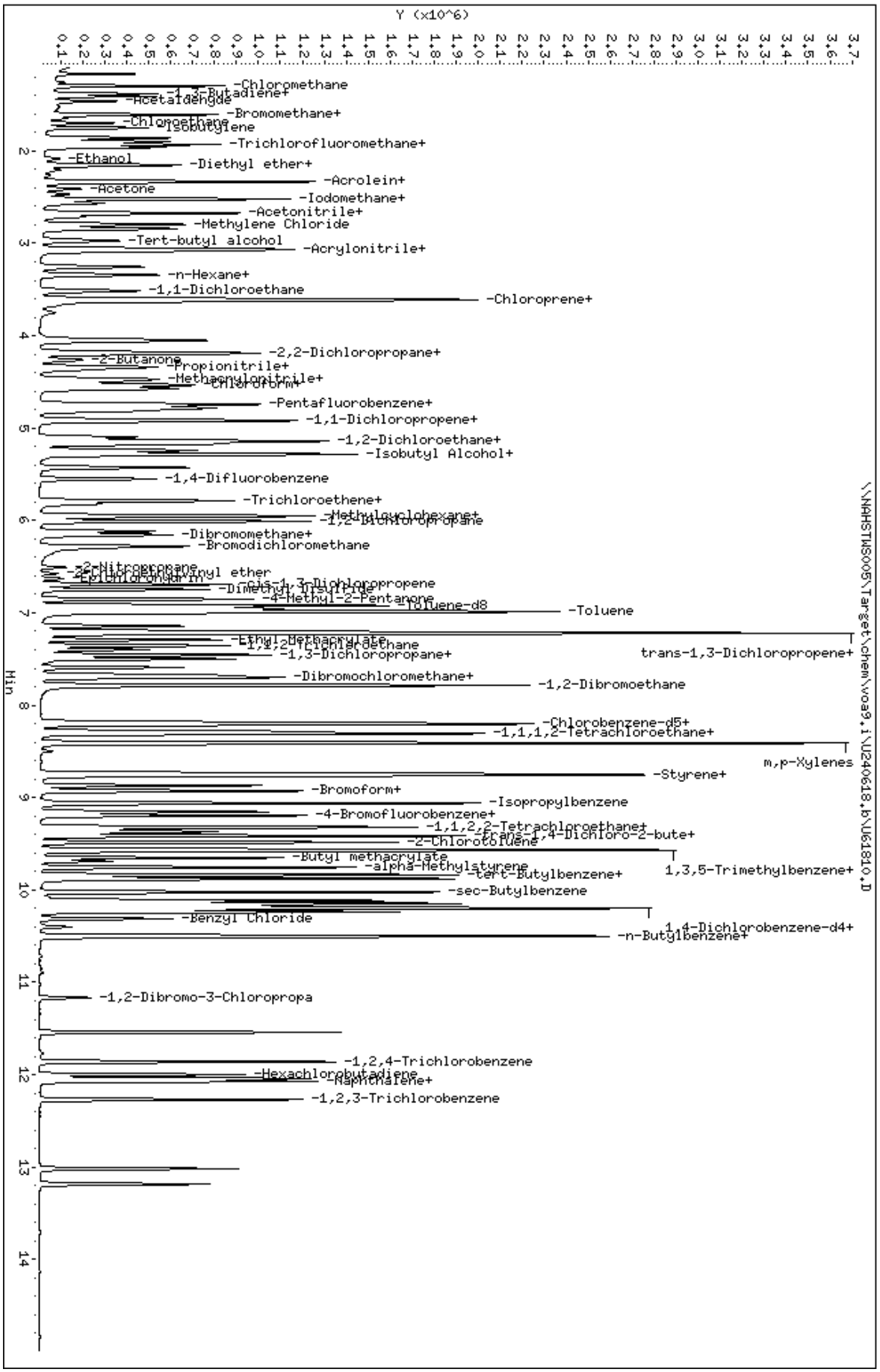
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.838	9.838	(0.967)	856558	150.000	150.09
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	956736	150.000	150.63
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	1155064	150.000	153.13
82	p-Isopropyltoluene	119	10.150	10.150	(0.998)	1020754	150.000	160.72
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	594193	150.000	148.85
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	614910	150.000	149.58
86	Benzyl Chloride	91	10.311	10.311	(1.260)	386789	150.000	151.81
87	n-Butylbenzene	91	10.494	10.494	(1.032)	898794	150.000	154.46
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	574335	150.000	148.48
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	48686	150.000	151.09
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	399061	150.000	148.93
91	Hexachlorobutadiene	225	12.001	12.001	(1.180)	175365	150.000	151.90
92	Naphthalene	128	12.069	12.069	(1.186)	881430	150.000	149.24
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	355442	150.000	149.31
146	Methyl acetate	43	2.712	2.712	(0.563)	199393	150.000	150.34
138	Freon TF	101	2.337	2.337	(0.485)	225548	150.000	150.59
141	Cyclohexane	56	4.785	4.785	(0.994)	377083	150.000	152.53
142	Tetrahydrofuran	42	4.538	4.538	(0.942)	95798	300.000	301.63
147	Methylcyclohexane	55	5.944	5.944	(1.070)	648091	150.000	148.34(A)
135	1,4-Dioxane	88	6.168	6.168	(1.281)	64995	3000.00	3026.78
132	n-Butanol	56	5.824	5.824	(1.209)	148429	3000.00	3016.20
136	n-Hexane	57	3.342	3.342	(0.694)	271556	150.000	150.79
139	Diethyl ether	59	2.146	2.146	(0.446)	195930	150.000	149.42
148	Tert-butyl alcohol	59	2.971	2.971	(0.617)	429656	3000.00	2996.77
149	Isopropyl alcohol	45	2.566	2.566	(0.533)	340981	3000.00	3011.64
156	Diisopropyl ether	45	3.619	3.619	(0.752)	858480	150.000	149.43
162	Butyl acrylate	55	8.733	8.733	(1.067)	510310	150.000	151.18
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	1199116	150.000	149.21
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	853778	150.000	150.16
167	Ethanol	45	2.086	2.086	(0.433)	68945	3000.00	3010.12
172	tert-Butyl formate	59	5.243	5.243	(1.089)	464681	300.000	299.15(A)
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.300)	2168737	3000.00	3031.17
140	1,3-Butadiene	54	1.408	1.408	(0.292)	133132	150.000	143.54
182	Epichlorohydrin	57	6.630	6.630	(1.194)	47701	600.000	596.45
M 94	1,2-Dichloroethylene (total)	96				541504	300.000	(a)
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	395535	150.000	152.09
130	Ethyl Acetate	43	4.534	4.534	(0.942)	116089	150.000	157.06
131	Methyl Acrylate	55	4.365	4.365	(0.907)	298313	150.000	150.11
189	n-Butyl acetate	43	7.705	7.705	(0.941)	433292	150.000	149.65
134	Cyclohexanone	55	9.152	9.152	(0.900)	391857	3000.00	2900.93
185	Isoprene	39	2.157	2.157	(0.448)	61366	150.000	152.27
188	Isopropyl acetate	43	5.284	5.284	(0.951)	745549	150.000	149.76
150	Allyl alcohol	57	3.342	3.342	(0.694)	271556	3000.00	3015.85
194	Acetaldehyde	44	1.460	1.460	(0.303)	218446	600.000	615.37(M)
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	333504	150.000	85.97
202	Isobutylene	41	1.749	1.749	(0.363)	125934	150.000	157.52(M)
133	Ethyl Acrylate	55	5.944	5.944	(1.234)	648091	150.000	146.08
163	Butyl methacrylate	41	9.651	9.651	(0.949)	267494	150.000	144.41
159	Propylene oxide	43	2.202	2.202	(0.457)	35027	300.000	302.01(A)
178	Ethylene oxide	44	1.603	1.603	(0.333)	835775	300.000	164.98
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	373003	150.000	149.55
204	Tetrahydrothiophene	60	7.672	7.672	(0.937)	290009	150.000	149.10(A)

205 sec-Butyl Ether	57	7.218	7.218 (0.882)	577351	150.000	148.01(AM)
187 n-Amyl acetate	43	8.931	8.931 (1.091)	455486	150.000	151.60

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
206 2-Chloropropene	41	1.929	1.929	(0.401)	391129	150.000	141.66(AM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



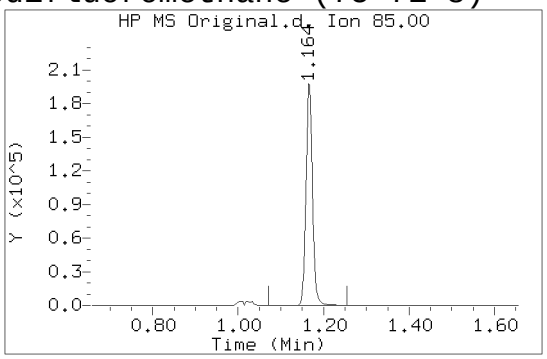
Data File: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61810.D
Date : 18-JUN-2024 14:25
Client ID: VSTD150
Sample Info: VSTD150;VSTD150;1;9
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

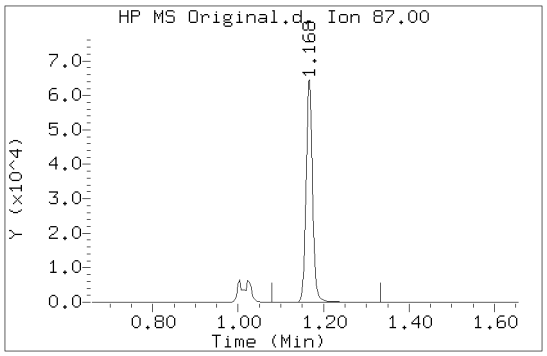
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61810.D
Inj Date : 18-JUN-2024 14:25
InstruID : VOA9.i
LabSampID : VSTD150

Dichlorodifluoromethane (75-71-8)

BEFORE



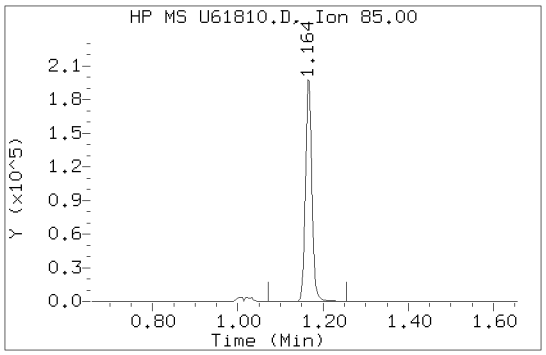
MASS
85
AREA
214787
HEIGHT
197758
26-Jun-2024
12:29
RUCHA
PATEL



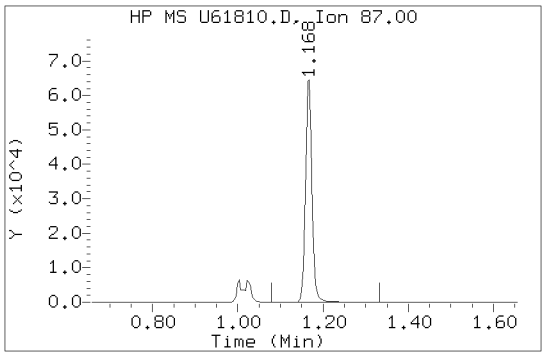
BEFORE
MASS
87
AREA
70306
HEIGHT
64488
26-Jun-2024
12:29
RUCHA
PATEL

Reason Code:

AFTER



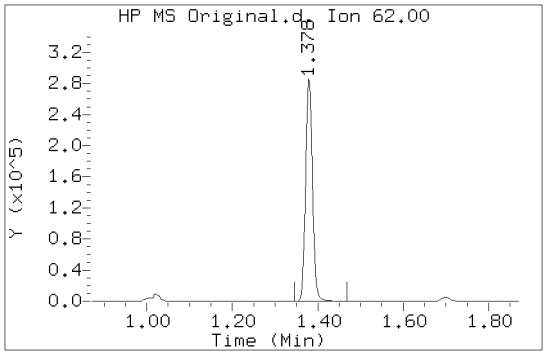
MASS
85
AREA
214787
HEIGHT
197758
26-Jun-2024
12:29
RUCHA
PATEL



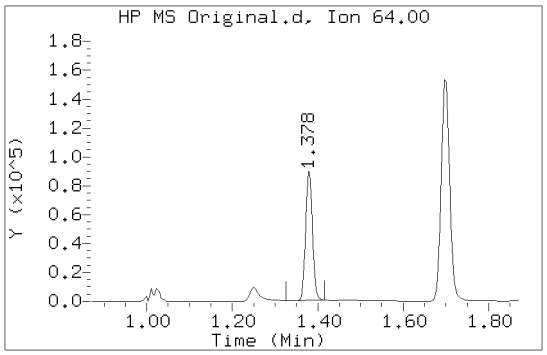
AFTER
MASS
87
AREA
70306
HEIGHT
64488
26-Jun-2024
12:29
RUCHA
PATEL

Vinyl Chloride (75-01-4)

BEFORE



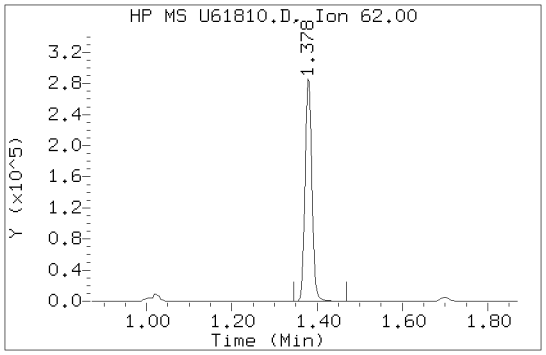
MASS
62
AREA
319822
HEIGHT
285844
26-Jun-2024
12:29
RUCHA
PATEL



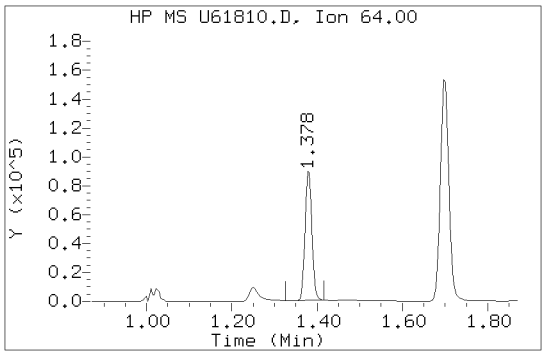
BEFORE
MASS
64
AREA
99449
HEIGHT
89451
26-Jun-2024
12:29
RUCHA
PATEL

Reason Code:

AFTER



MASS
62
AREA
319822
HEIGHT
285844
26-Jun-2024
12:29
RUCHA
PATEL



AFTER
MASS
64
AREA
99449
HEIGHT
89451
26-Jun-2024
12:29
RUCHA
PATEL

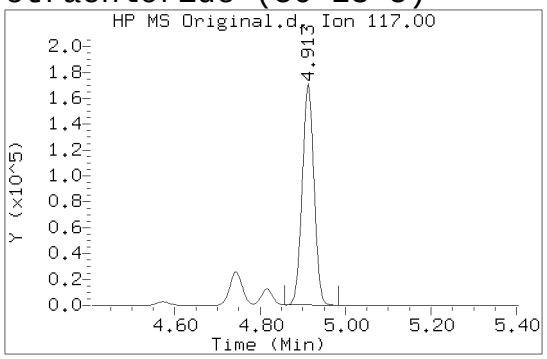
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61810.D
Inj Date : 18-JUN-2024 14:25
InstruID : VOA9.i
LabSampID : VSTD150

Carbon Tetrachloride (56-23-5)

Reason Code:

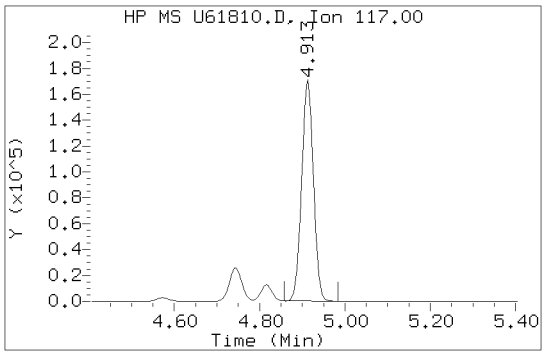
BEFORE

MASS
117
AREA
334442
HEIGHT
171065
26-Jun-2024
12:29
RUCHA
PATEL



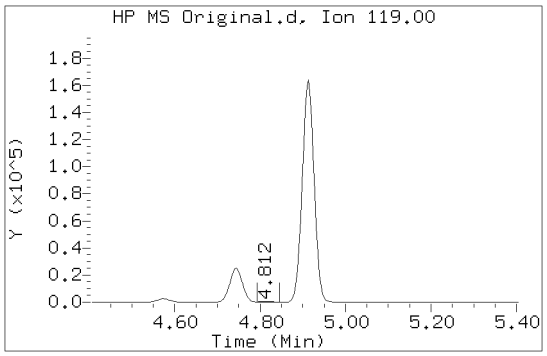
AFTER

MASS
117
AREA
334442
HEIGHT
171065
26-Jun-2024
12:29
RUCHA
PATEL



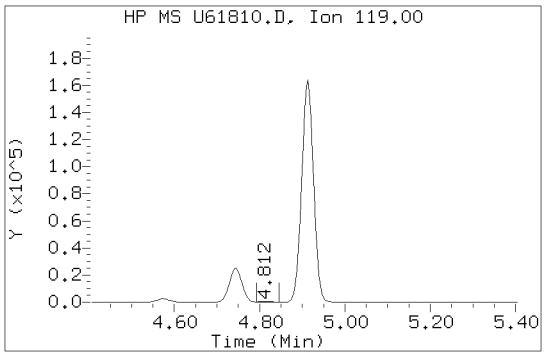
BEFORE

MASS
119
AREA
1284
HEIGHT
666
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
119
AREA
1284
HEIGHT
666
26-Jun-2024
12:29
RUCHA
PATEL

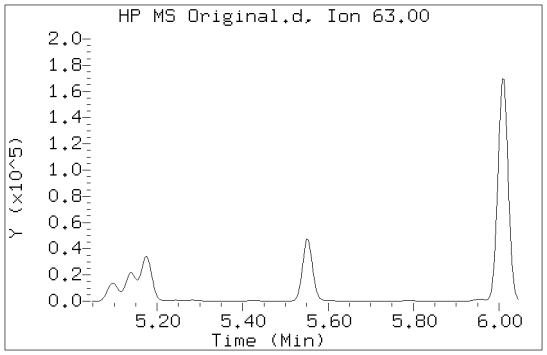


1,2-Dichloropropane (78-87-5)

Reason Code:

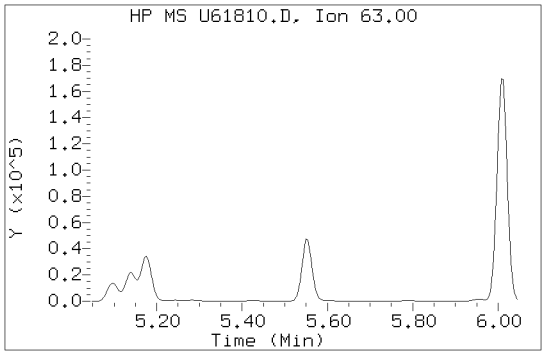
BEFORE

MASS
63
AREA
286453
HEIGHT
169007
26-Jun-2024
12:29
RUCHA
PATEL



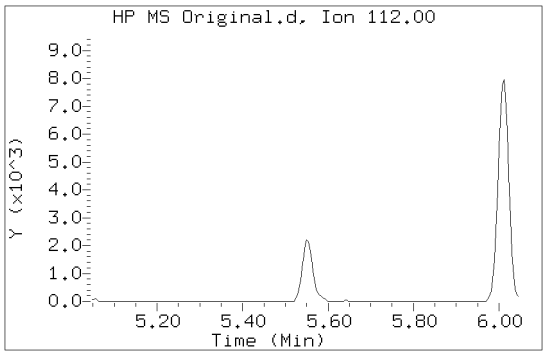
AFTER

MASS
63
AREA
286453
HEIGHT
169007
26-Jun-2024
12:29
RUCHA
PATEL



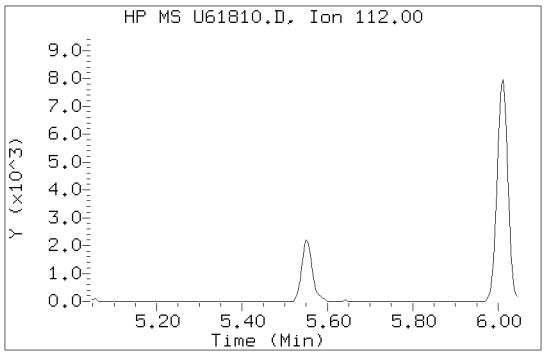
BEFORE

MASS
112
AREA
14696
HEIGHT
7954
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
112
AREA
14696
HEIGHT
7954
26-Jun-2024
12:29
RUCHA
PATEL

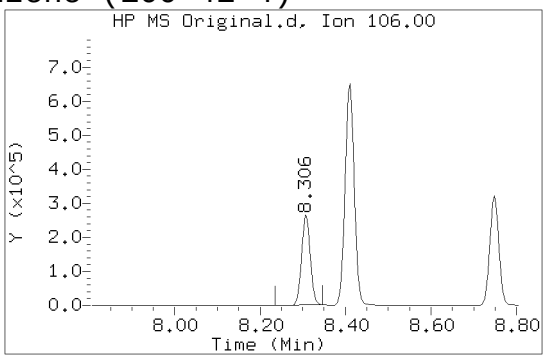


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61810.D
Inj Date : 18-JUN-2024 14:25
InstruID : VOA9.i
LabSampID : VSTD150

Ethylbenzene (100-41-4)

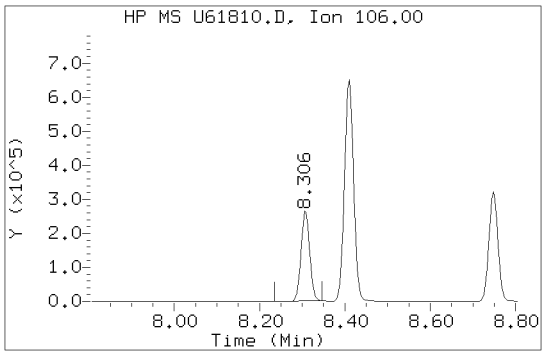
BEFORE

MASS
106
AREA
381170
HEIGHT
264626
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

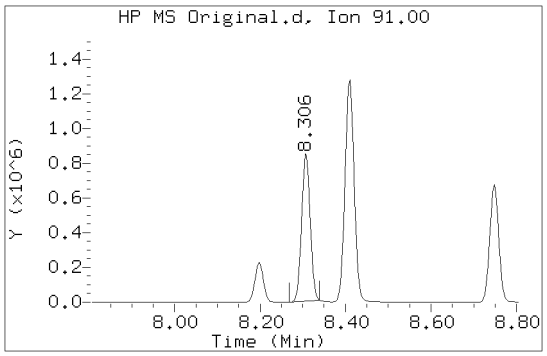
MASS
106
AREA
381170
HEIGHT
264626
26-Jun-2024
12:29
RUCHA
PATEL



Reason Code:

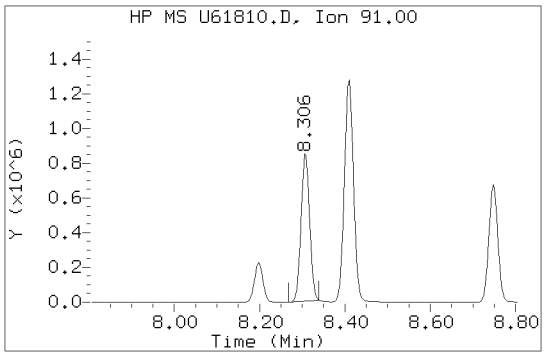
BEFORE

MASS
91
AREA
1216391
HEIGHT
849677
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

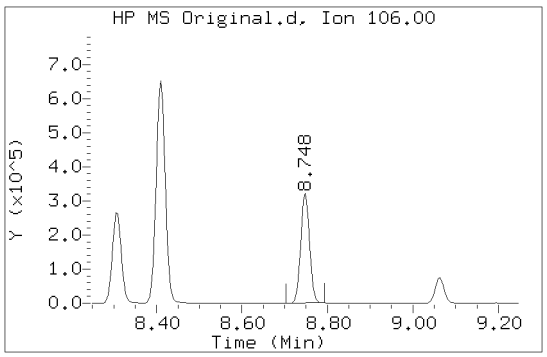
MASS
91
AREA
1216391
HEIGHT
849677
26-Jun-2024
12:29
RUCHA
PATEL



o-Xylene (95-47-6)

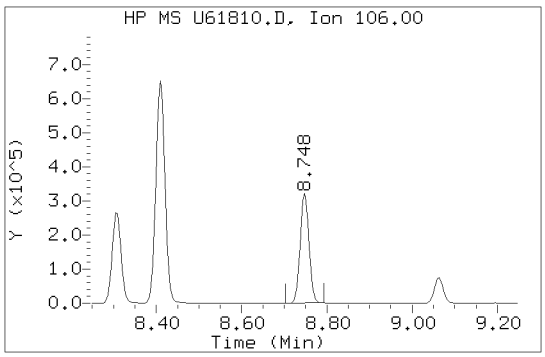
BEFORE

MASS
106
AREA
470189
HEIGHT
321741
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

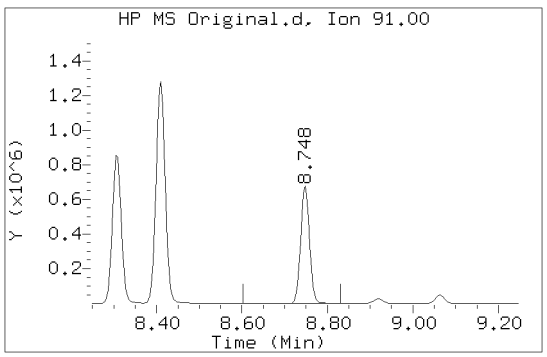
MASS
106
AREA
470189
HEIGHT
321741
26-Jun-2024
12:29
RUCHA
PATEL



Reason Code:

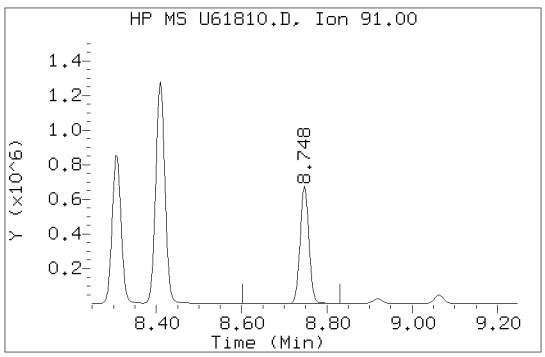
BEFORE

MASS
91
AREA
988464
HEIGHT
678387
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
91
AREA
988464
HEIGHT
678387
26-Jun-2024
12:29
RUCHA
PATEL



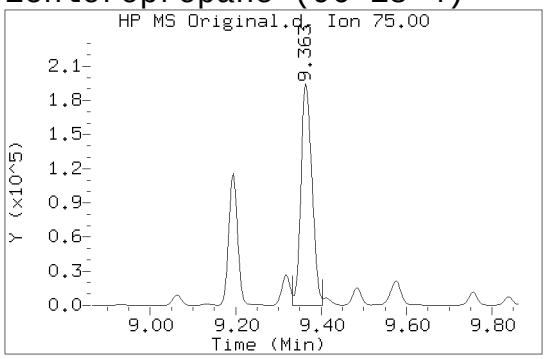
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61810.D
Inj Date : 18-JUN-2024 14:25
InstruID : VOA9.i
LabSampID : VSTD150

1,2,3-Trichloropropane (96-18-4)

Reason Code:

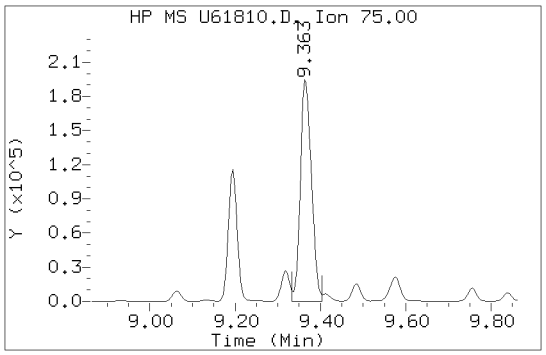
BEFORE

MASS
75
AREA
357842
HEIGHT
194489
26-Jun-2024
12:29
RUCHA
PATEL



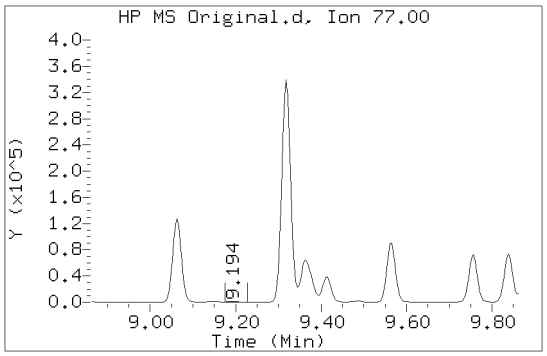
AFTER

MASS
75
AREA
357842
HEIGHT
194489
26-Jun-2024
12:29
RUCHA
PATEL



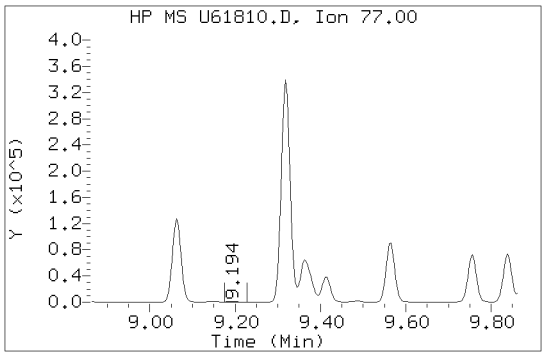
BEFORE

MASS
77
AREA
2018
HEIGHT
1394
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
77
AREA
2018
HEIGHT
1394
26-Jun-2024
12:29
RUCHA
PATEL

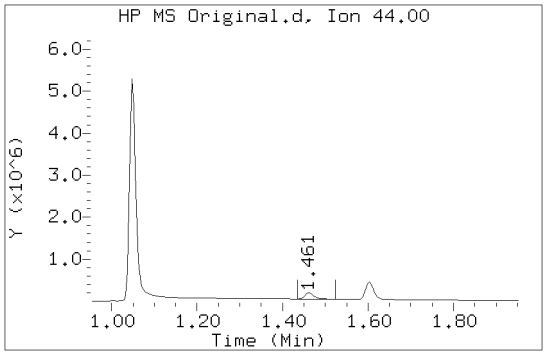


Acetaldehyde (75-07-0)

Reason Code:

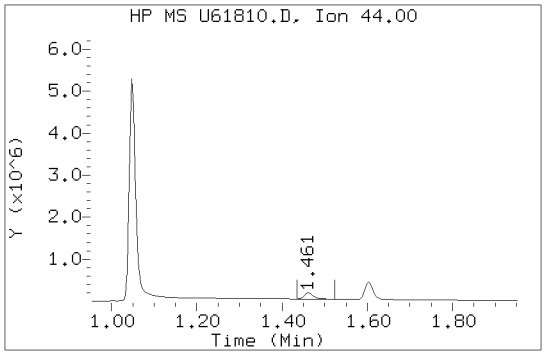
BEFORE

MASS
44
AREA
218446
HEIGHT
150880
26-Jun-2024
12:29
RUCHA
PATEL



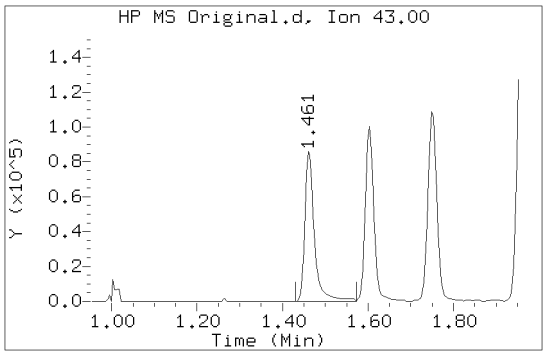
AFTER

MASS
44
AREA
218446
HEIGHT
150880
26-Jun-2024
12:29
RUCHA
PATEL



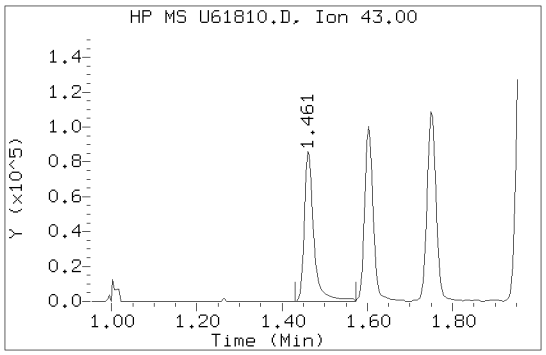
BEFORE

MASS
43
AREA
135610
HEIGHT
86200
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
43
AREA
135610
HEIGHT
86200
26-Jun-2024
12:29
RUCHA
PATEL



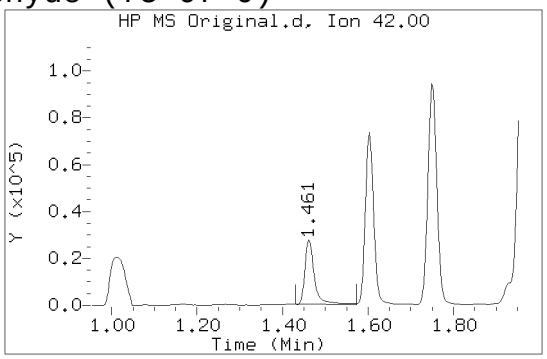
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61810.D
Inj Date : 18-JUN-2024 14:25
InstruID : VOA9.i
LabSampID : VSTD150

Acetaldehyde (75-07-0)

Reason Code:

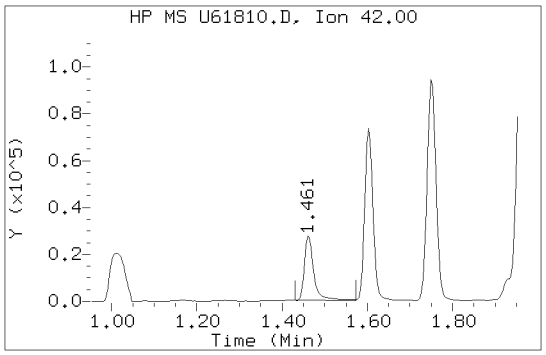
BEFORE

MASS
42
AREA
43068
HEIGHT
27573
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
42
AREA
43068
HEIGHT
27573
26-Jun-2024
12:29
RUCHA
PATEL

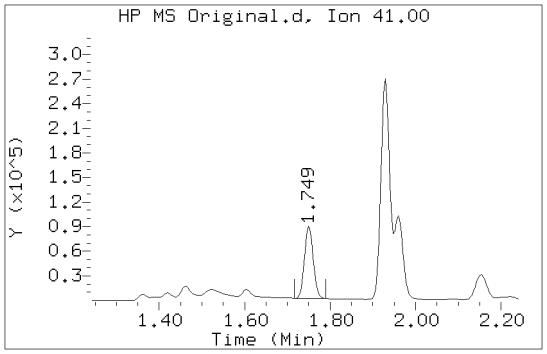


Isobutylene (115-11-7)

Reason Code:

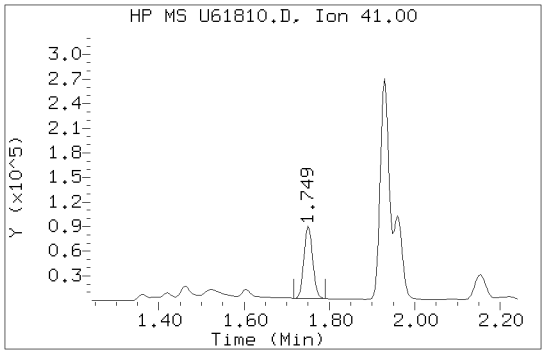
BEFORE

MASS
41
AREA
125934
HEIGHT
88108
26-Jun-2024
12:29
RUCHA
PATEL



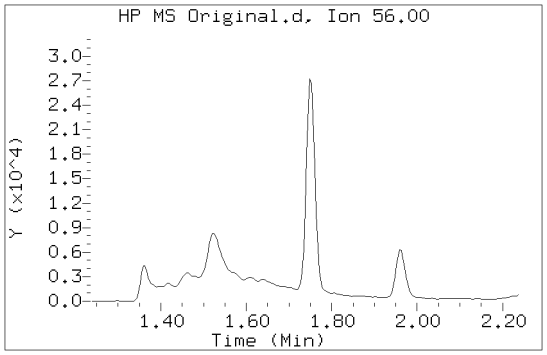
AFTER

MASS
41
AREA
125934
HEIGHT
88108
26-Jun-2024
12:29
RUCHA
PATEL



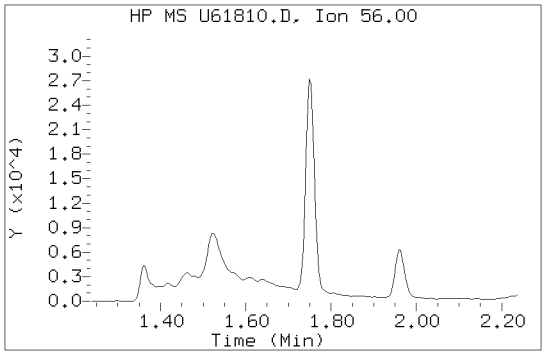
BEFORE

MASS
56
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



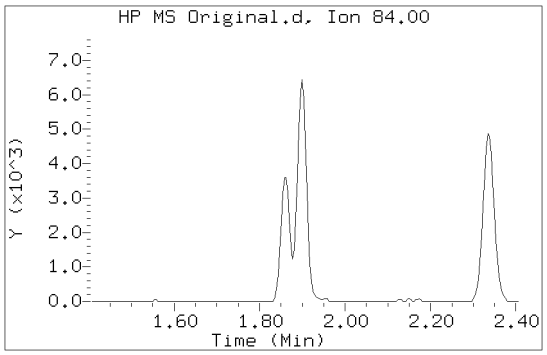
AFTER

MASS
56
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



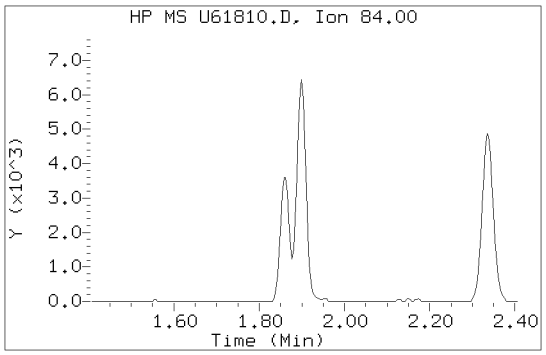
BEFORE

MASS
84
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
84
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



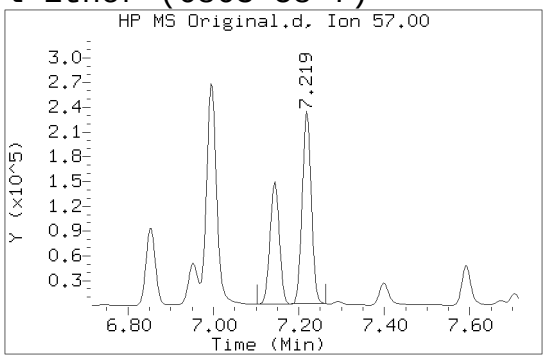
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61810.D
Inj Date : 18-JUN-2024 14:25
InstruID : VOA9.i
LabSampID : VSTD150

sec-Butyl Ether (6863-58-7)

Reason Code:

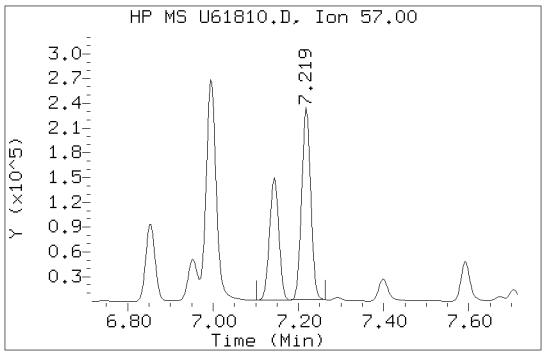
BEFORE

MASS
57
AREA
577351
HEIGHT
233443
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
57
AREA
577351
HEIGHT
233443
26-Jun-2024
12:29
RUCHA
PATEL

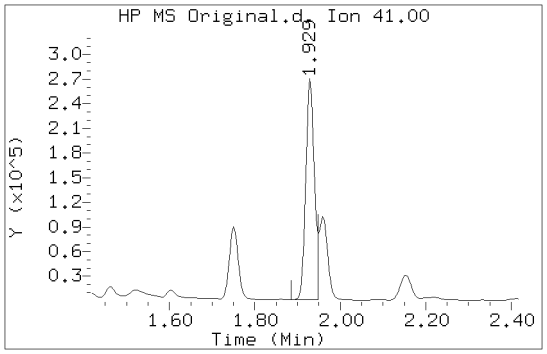


2-Chloropropene (557-98-2)

Reason Code:

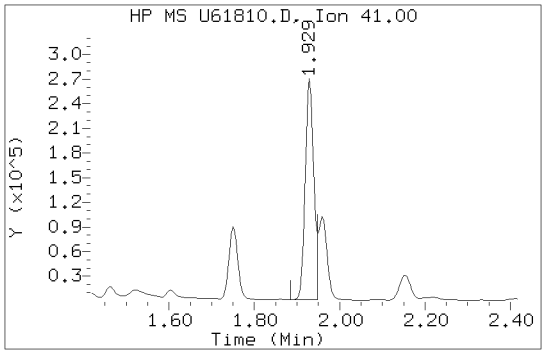
BEFORE

MASS
41
AREA
391129
HEIGHT
269354
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
41
AREA
391129
HEIGHT
269354
26-Jun-2024
12:29
RUCHA
PATEL



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61811.D Page 1
Report Date: 26-Jun-2024 12:31

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61811.D
Lab Smp Id: VSTD200 Client Smp ID: VSTD200
Inj Date : 18-JUN-2024 14:47
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD200;VSTD200;1;10
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240618.b\8260C.m
Meth Date : 26-Jun-2024 12:31 VOA9.i Quant Type: ISTD
Cal Date : 18-JUN-2024 14:25 Cal File: U61810.D
Als bottle: 11 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.812	4.812	(1.000)	283947	50.0000	
2	Dichlorodifluoromethane	85	1.160	1.160	(0.241)	286750	200.000	198.67(M)
3	Chloromethane	50	1.292	1.292	(0.269)	760022	200.000	198.89
4	Propionitrile	54	4.335	4.335	(0.901)	500684	2000.00	1999.24
5	Vinyl Chloride	62	1.374	1.374	(0.286)	435887	200.000	199.39(M)
6	Bromomethane	94	1.603	1.603	(0.333)	156449	200.000	200.36(A)
7	Chloroethane	64	1.693	1.693	(0.352)	288070	200.000	199.42
8	Trichlorofluoromethane	101	1.891	1.891	(0.393)	518570	200.000	197.05
9	Acrolein	56	2.259	2.259	(0.469)	33660	400.000	397.39
10	Acetone	43	2.405	2.405	(0.500)	232698	400.000	399.10
11	1,1-Dichloroethene	96	2.330	2.330	(0.484)	310552	200.000	198.96
12	Isobutyl Alcohol	43	5.284	5.284	(1.098)	1049114	4000.00	4036.28(A)
13	Acetonitrile	39	2.667	2.667	(0.554)	422215	2000.00	2010.93(A)
14	Allyl Chloride	41	2.667	2.667	(0.554)	976574	200.000	200.26(A)
16	Acrylonitrile	53	3.061	3.061	(0.636)	259242	400.000	401.68(A)
17	Methylene Chloride	84	2.787	2.787	(0.579)	368746	200.000	199.73
18	Methyl tert-butyl ether	73	3.076	3.076	(0.639)	942372	200.000	199.98
19	Carbon Disulfide	76	2.514	2.514	(0.522)	1851207	400.000	399.01
20	trans-1,2-Dichloroethene	96	3.053	3.053	(0.635)	340999	200.000	199.59
21	Vinyl Acetate	43	4.335	4.335	(0.901)	360352	400.000	399.19

22 1,1-Dichloroethane	63	3.507	3.507 (0.729)	625495	200.000	199.79
23 Chloroprene	53	3.604	3.604 (0.749)	529250	200.000	184.42

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61811.D Page 2
Report Date: 26-Jun-2024 12:31

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
	24	2-Butanone	43	4.257	4.257	(0.885)	344617	400.000	399.22
	25	Methacrylonitrile	41	4.489	4.489	(0.933)	219163	200.000	198.76(a)
	26	2,2-Dichloropropane	77	4.178	4.178	(0.868)	499998	200.000	199.03
	27	cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	399766	200.000	200.01(A)
	28	Chloroform	83	4.568	4.568	(0.949)	631257	200.000	199.74
	29	Bromochloromethane	128	4.467	4.467	(0.928)	193541	200.000	200.18(A)
$	30	Dibromofluoromethane	113	4.744	4.744	(0.986)	344640	200.000	190.80
	31	1,1,1-Trichloroethane	97	4.740	4.740	(0.985)	533768	200.000	197.32
	32	1,1-Dichloropropene	75	4.920	4.920	(0.887)	493736	200.000	185.67
	33	1,2-Dichloroethane	62	5.171	5.171	(0.932)	486009	200.000	197.87
	34	Carbon Tetrachloride	117	4.909	4.909	(0.885)	456888	200.000	204.56(AM)
$	35	1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	395823	200.000	183.54
*	36	1,4-Difluorobenzene	114	5.550	5.550	(1.000)	410134	50.0000	
	37	Benzene	78	5.138	5.138	(0.926)	1466309	200.000	199.88
	38	Trichloroethene	130	5.786	5.786	(1.043)	388381	200.000	200.01(A)
	39	Bromodichloromethane	83	6.277	6.277	(1.131)	482897	200.000	199.73
	40	Methyl Methacrylate	41	5.824	5.824	(1.210)	144259	200.000	199.91
	41	2-Chloroethylvinyl ether	63	6.573	6.573	(1.184)	64665	400.000	61.10
	42	1,2-Dichloropropane	63	6.007	6.007	(1.082)	394306	200.000	199.74(M)
	43	2-Nitropropane	43	6.506	6.506	(1.352)	98915	200.000	214.20(A)
	44	Dibromomethane	93	6.116	6.116	(1.102)	229245	200.000	200.34(A)
	45	4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	787323	400.000	399.09
	46	cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	606362	200.000	201.61(A)
*	47	Chlorobenzene-d5	117	8.185	8.185	(1.000)	389804	50.0000	
$	48	Toluene-d8	98	6.922	6.922	(0.846)	1281157	200.000	190.02
	49	Ethyl Methacrylate	69	7.289	7.289	(1.313)	546385	200.000	199.96
	50	Toluene	91	6.982	6.982	(0.853)	1542519	200.000	199.82
	51	trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	503145	200.000	199.63
	52	2-Hexanone	43	7.222	7.222	(0.882)	715543	400.000	399.53
	53	1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	284607	200.000	198.49
	54	1,3-Dichloropropane	76	7.499	7.499	(0.916)	612218	200.000	200.00(A)
	55	Dibromochloromethane	129	7.691	7.691	(0.940)	386841	200.000	199.65
	56	Tetrachloroethene	164	7.458	7.458	(0.911)	309354	200.000	185.44
	57	1,2-Dibromoethane	107	7.784	7.784	(0.951)	345434	200.000	200.21(A)
	58	1-Chlorohexane	55	8.197	8.197	(1.477)	314535	200.000	198.65
	59	Chlorobenzene	112	8.208	8.208	(1.003)	1011854	200.000	199.99
	60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	366062	200.000	192.89
	61	Ethylbenzene	106	8.305	8.305	(1.015)	523259	200.000	200.07(AM)
	62	m,p-Xylenes	106	8.410	8.410	(1.027)	1324590	400.000	413.10(A)
	63	o-Xylene	106	8.748	8.748	(1.069)	644470	200.000	204.69(AM)
	64	Styrene	104	8.763	8.763	(1.071)	1122018	200.000	208.42(A)
	66	Bromoform	173	8.920	8.920	(1.090)	267946	200.000	199.58
	67	Isopropylbenzene	105	9.063	9.063	(1.107)	1637630	200.000	198.11
	68	1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	470485	200.000	200.62(A)
$	69	4-Bromofluorobenzene	95	9.194	9.194	(1.123)	490774	200.000	190.18
*	70	1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	214843	50.0000	
	71	1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	501438	200.000	200.66(AM)
	72	trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	110145	200.000	200.11(A)
	73	n-Propylbenzene	91	9.411	9.411	(0.925)	1908983	200.000	204.67(A)
	74	Bromobenzene	156	9.317	9.317	(0.916)	452349	200.000	200.96(A)
	75	1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	1353539	200.000	224.73(A)
	76	2-Chlorotoluene	91	9.482	9.482	(0.932)	1132240	200.000	200.84(A)

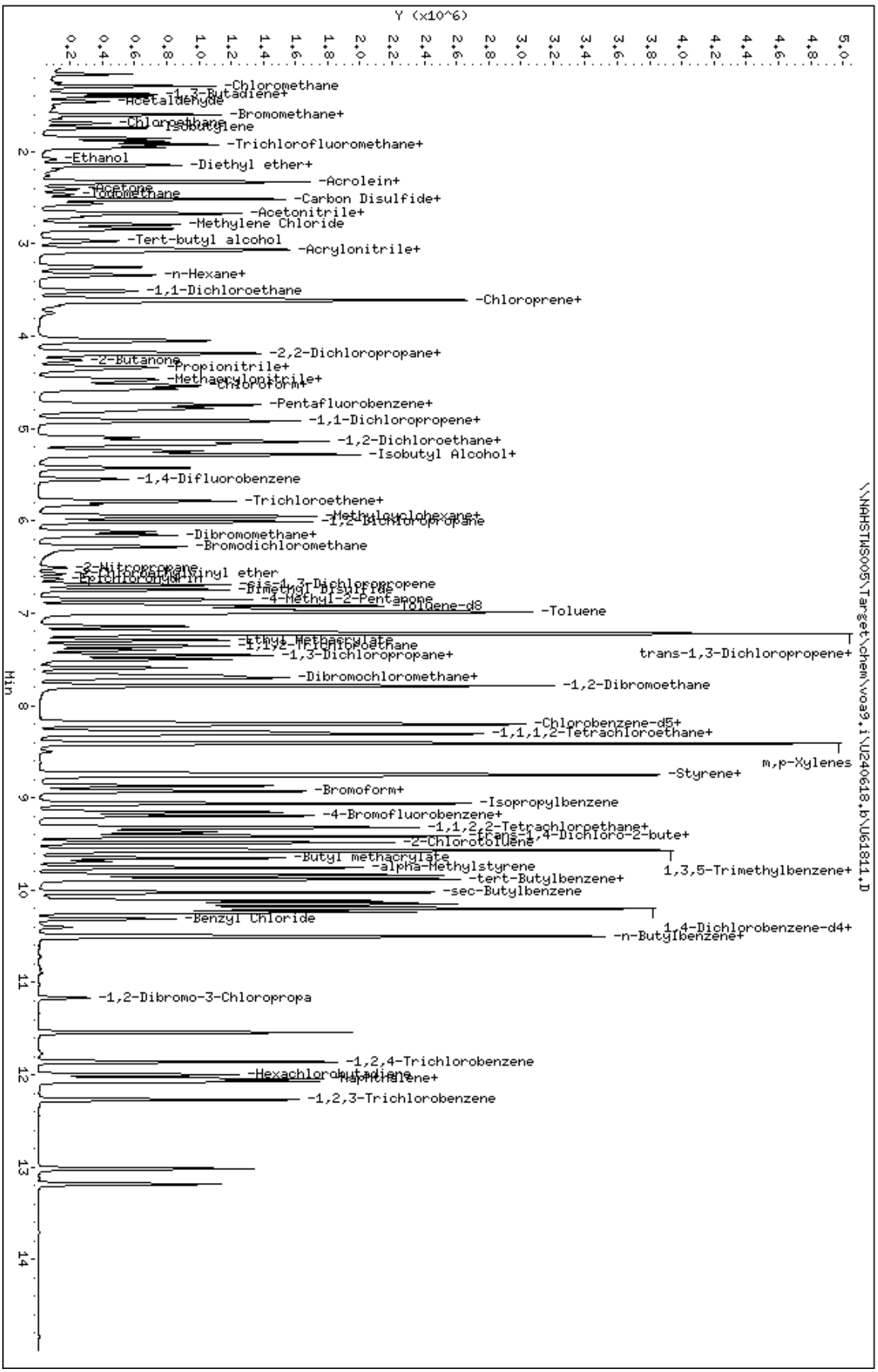
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	1322489	200.000	200.38(A)
78	tert-Butylbenzene	119	9.839	9.839 (0.967)	1150168	200.000	198.73

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	1326903	200.000	199.59
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	1548025	200.000	202.36(A)
82	p-Isopropyltoluene	119	10.150	10.150	(0.998)	1387390	200.000	215.39(A)
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	807473	200.000	200.62(A)
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	827079	200.000	200.35(A)
86	Benzyl Chloride	91	10.311	10.311	(1.260)	549424	200.000	199.23
87	n-Butylbenzene	91	10.495	10.495	(1.032)	1217078	200.000	206.24(A)
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	777513	200.000	200.74(A)
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	68116	200.000	199.61
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	550333	200.000	200.57(A)
91	Hexachlorobutadiene	225	12.002	12.002	(1.180)	233076	200.000	199.32
92	Naphthalene	128	12.069	12.069	(1.186)	1208315	200.000	200.23(A)
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	483670	200.000	200.37(A)
146	Methyl acetate	43	2.709	2.709	(0.563)	270237	200.000	199.82
138	Freon TF	101	2.330	2.330	(0.484)	306618	200.000	197.47
141	Cyclohexane	56	4.782	4.782	(0.994)	511373	200.000	199.10
142	Tetrahydrofuran	42	4.538	4.538	(0.943)	130200	400.000	389.63
147	Methylcyclohexane	55	5.944	5.944	(1.071)	904492	200.000	200.66(A)
135	1,4-Dioxane	88	6.165	6.165	(1.281)	90169	4000.00	3990.78
132	n-Butanol	56	5.824	5.824	(1.210)	213424	4000.00	3990.69
136	n-Hexane	57	3.338	3.338	(0.694)	367406	200.000	196.78
139	Diethyl ether	59	2.139	2.139	(0.445)	274285	200.000	200.33(A)
148	Tert-butyl alcohol	59	2.967	2.967	(0.617)	601904	4000.00	4001.94(A)
149	Isopropyl alcohol	45	2.562	2.562	(0.533)	474877	4000.00	3997.51
156	Diisopropyl ether	45	3.616	3.616	(0.751)	1194208	200.000	200.30(A)
162	Butyl acrylate	55	8.733	8.733	(1.067)	745668	200.000	199.53
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	1682883	200.000	200.36(A)
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	1196325	200.000	199.61
167	Ethanol	45	2.083	2.083	(0.433)	93150	4000.00	3866.54
172	tert-Butyl formate	59	5.243	5.243	(1.090)	660362	400.000	382.49(A)
151	4-Methyl-2-pentanol	45	7.222	7.222	(1.301)	3077060	4000.00	3985.94
140	1,3-Butadiene	54	1.400	1.400	(0.291)	180363	200.000	187.57
182	Epichlorohydrin	57	6.630	6.630	(1.195)	72912	800.000	731.83
M 94	1,2-Dichloroethylene (total)	96				740765	400.000	(a)
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	553500	200.000	199.01
130	Ethyl Acetate	43	4.534	4.534	(0.942)	144830	200.000	195.75(M)
131	Methyl Acrylate	55	4.365	4.365	(0.907)	417904	200.000	199.99
189	n-Butyl acetate	43	7.706	7.706	(0.941)	616135	200.000	200.04(A)
134	Cyclohexanone	55	9.153	9.153	(0.900)	570789	4000.00	4030.77(A)
185	Isoprene	39	2.154	2.154	(0.448)	82599	200.000	199.16(M)
188	Isopropyl acetate	43	5.284	5.284	(0.952)	1043175	200.000	200.15(A)
150	Allyl alcohol	57	3.338	3.338	(0.694)	367406	4000.00	3935.75
194	Acetaldehyde	44	1.456	1.456	(0.303)	279773	800.000	792.73(M)
202	Isobutylene	41	1.741	1.741	(0.362)	170733	200.000	205.99(AM)
133	Ethyl Acrylate	55	5.944	5.944	(1.235)	904492	200.000	196.65
163	Butyl methacrylate	41	9.651	9.651	(0.949)	379693	200.000	202.27(A)
159	Propylene oxide	43	2.195	2.195	(0.456)	49106	400.000	398.75(A)
178	Ethylene oxide	44	1.595	1.595	(0.332)	874268	400.000	162.43
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	544711	200.000	188.67
204	Tetrahydrothiophene	60	7.672	7.672	(0.937)	406335	200.000	200.34(A)
205	sec-Butyl Ether	57	7.218	7.218	(0.882)	859599	200.000	200.77(AM)
187	n-Amyl acetate	43	8.931	8.931	(1.091)	629051	200.000	199.40

206 2-Chloropropene	41	1.921	1.921 (0.399)	556975	200.000	194.57(AM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\NAHSTMS005\Target\chem\woa9.i\U240618.b\U61811.D
Date : 18-JUN-2024 14:47
Client ID: VSTD200
Sample Info: VSTD200;VSTD200;1;10
Purge Volume: 5.0
Column phase: DB624

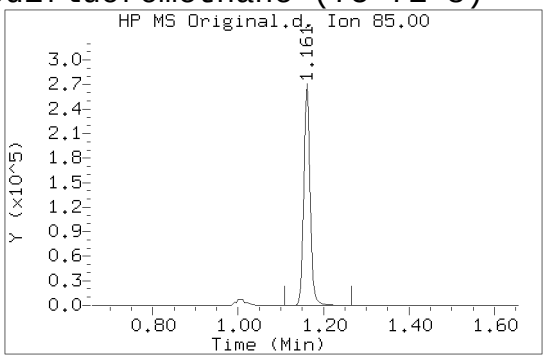
Instrument: WOA9.i
Operator: TS
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61811.D
Inj Date : 18-JUN-2024 14:47
InstruID : VOA9.i
LabSampID : VSTD200

Dichlorodifluoromethane (75-71-8)

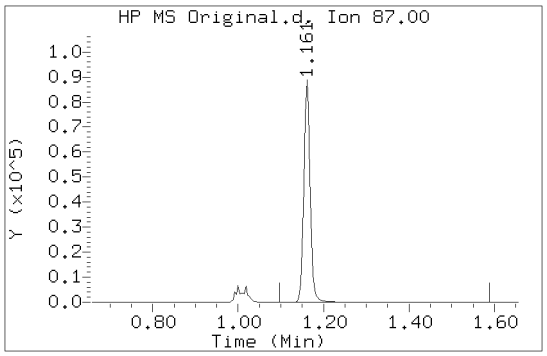
BEFORE

MASS
85
AREA
286750
HEIGHT
270989
26-Jun-2024
12:29
RUCHA
PATEL



BEFORE

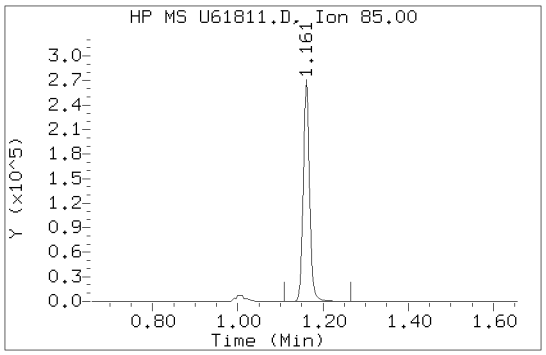
MASS
87
AREA
94312
HEIGHT
88824
26-Jun-2024
12:29
RUCHA
PATEL



Reason Code:

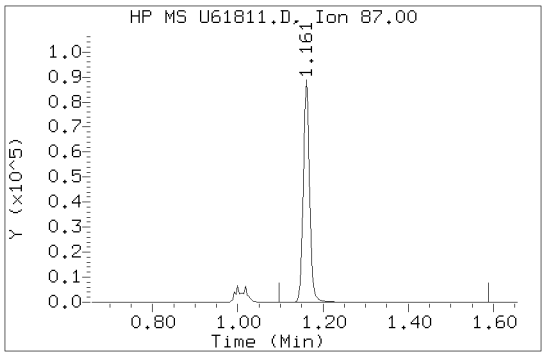
AFTER

MASS
85
AREA
286750
HEIGHT
270989
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

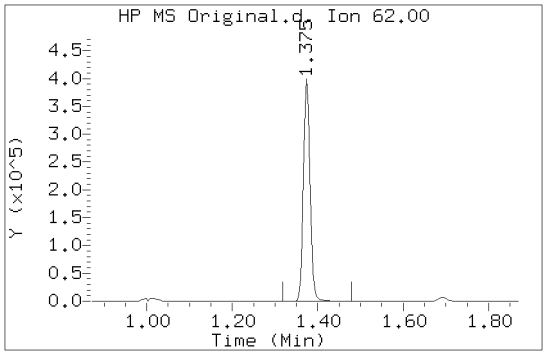
MASS
87
AREA
94312
HEIGHT
88824
26-Jun-2024
12:29
RUCHA
PATEL



Vinyl Chloride (75-01-4)

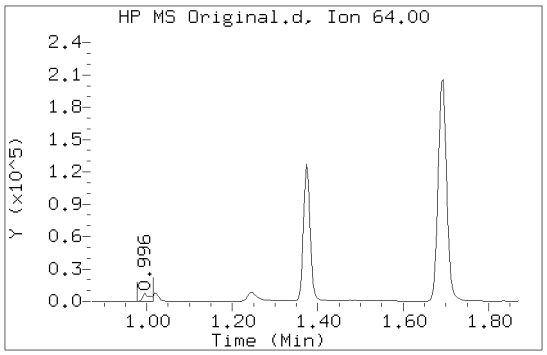
BEFORE

MASS
62
AREA
435887
HEIGHT
399237
26-Jun-2024
12:29
RUCHA
PATEL



BEFORE

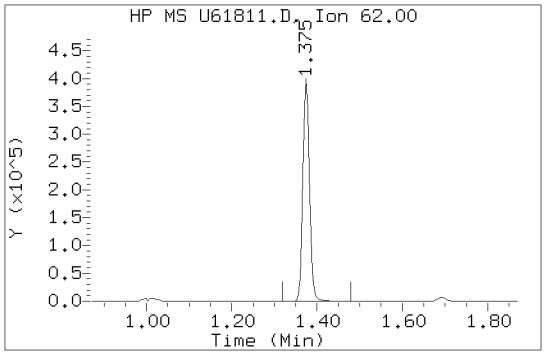
MASS
64
AREA
8701
HEIGHT
7830
26-Jun-2024
12:29
RUCHA
PATEL



Reason Code:

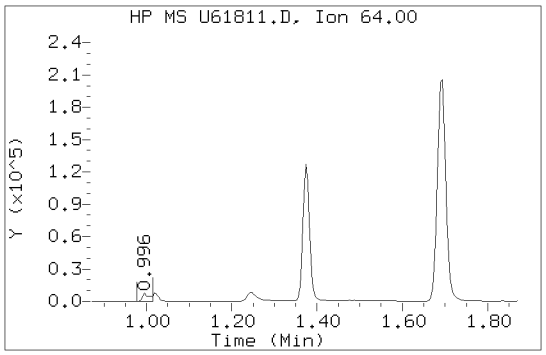
AFTER

MASS
62
AREA
435887
HEIGHT
399237
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
64
AREA
8701
HEIGHT
7830
26-Jun-2024
12:29
RUCHA
PATEL

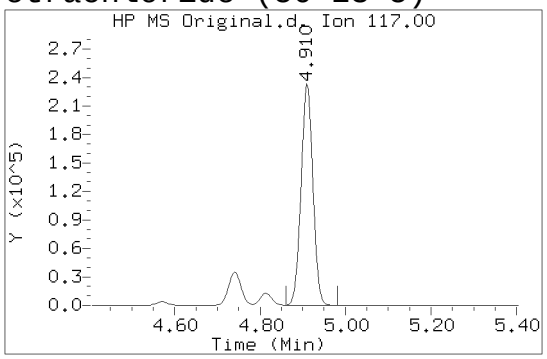


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61811.D
Inj Date : 18-JUN-2024 14:47
InstruID : VOA9.i
LabSampID : VSTD200

Carbon Tetrachloride (56-23-5)

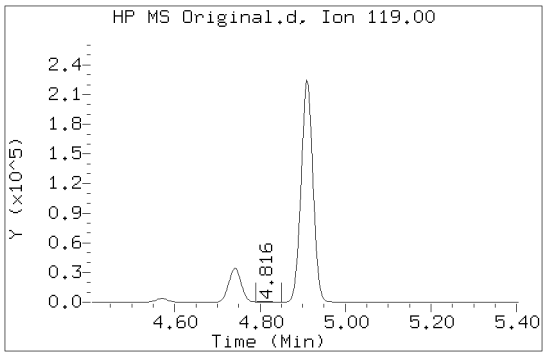
BEFORE

MASS
117
AREA
456888
HEIGHT
233281
26-Jun-2024
12:29
RUCHA
PATEL



BEFORE

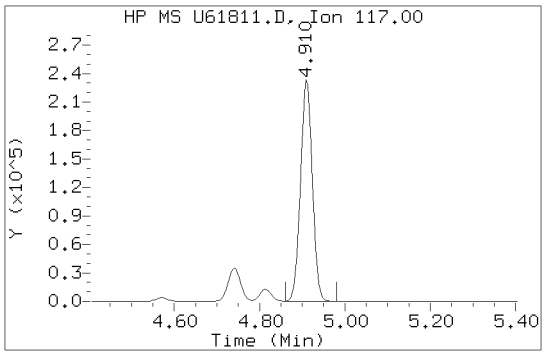
MASS
119
AREA
1321
HEIGHT
623
26-Jun-2024
12:29
RUCHA
PATEL



Reason Code:

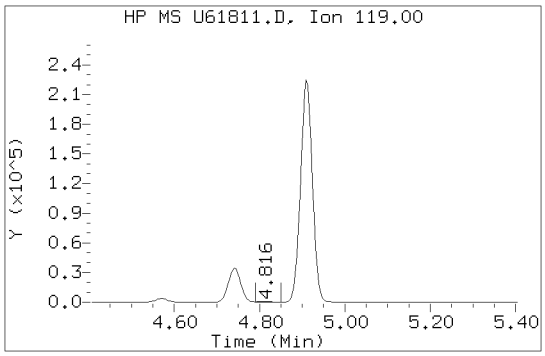
AFTER

MASS
117
AREA
456888
HEIGHT
233281
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

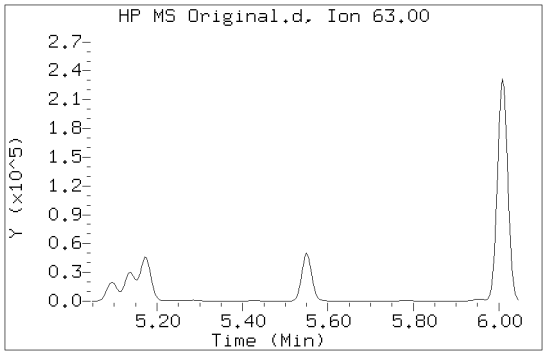
MASS
119
AREA
1321
HEIGHT
623
26-Jun-2024
12:29
RUCHA
PATEL



1,2-Dichloropropane (78-87-5)

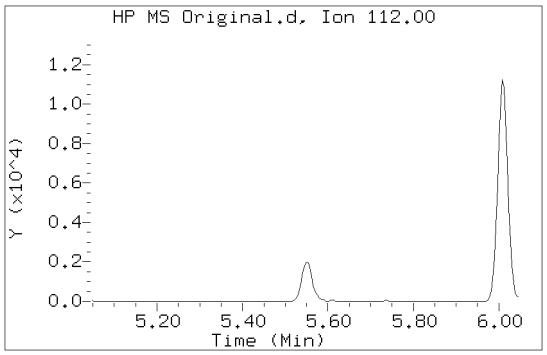
BEFORE

MASS
63
AREA
394306
HEIGHT
231324
26-Jun-2024
12:29
RUCHA
PATEL



BEFORE

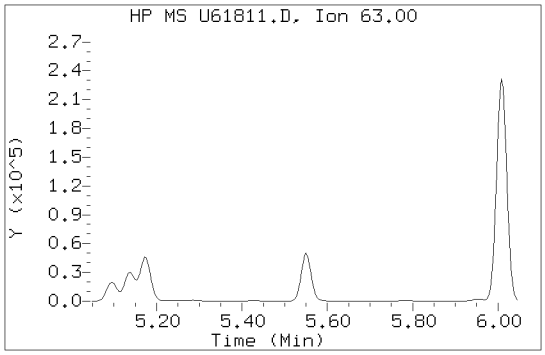
MASS
112
AREA
19308
HEIGHT
11240
26-Jun-2024
12:29
RUCHA
PATEL



Reason Code:

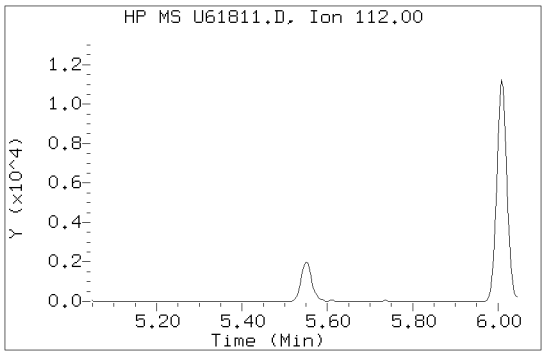
AFTER

MASS
63
AREA
394306
HEIGHT
231324
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
112
AREA
19308
HEIGHT
11240
26-Jun-2024
12:29
RUCHA
PATEL

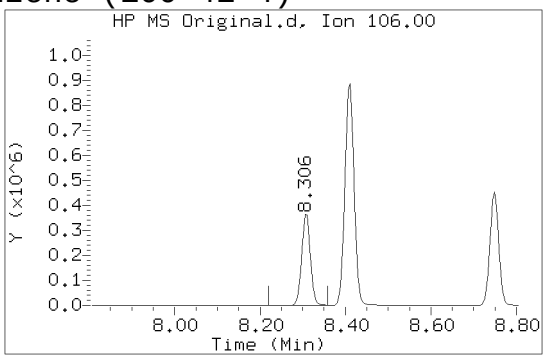


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61811.D
Inj Date : 18-JUN-2024 14:47
InstruID : VOA9.i
LabSampID : VSTD200

Ethylbenzene (100-41-4)

BEFORE

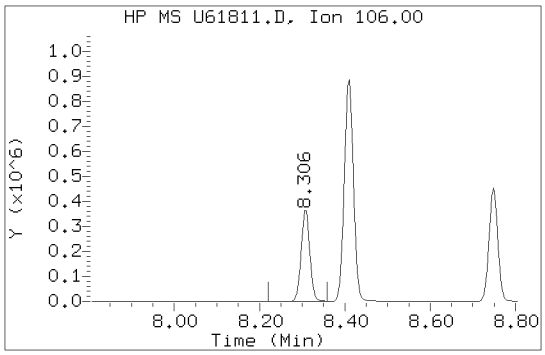
MASS
106
AREA
523259
HEIGHT
362654
26-Jun-2024
12:29
RUCHA
PATEL



Reason Code:

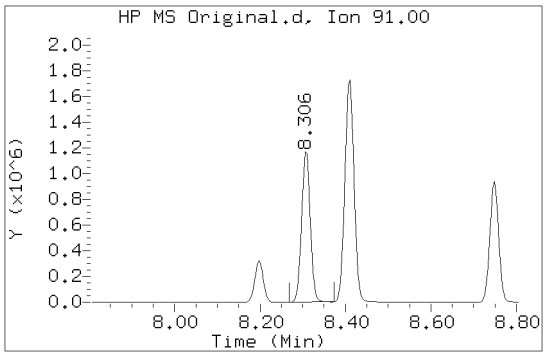
AFTER

MASS
106
AREA
523259
HEIGHT
362654
26-Jun-2024
12:29
RUCHA
PATEL



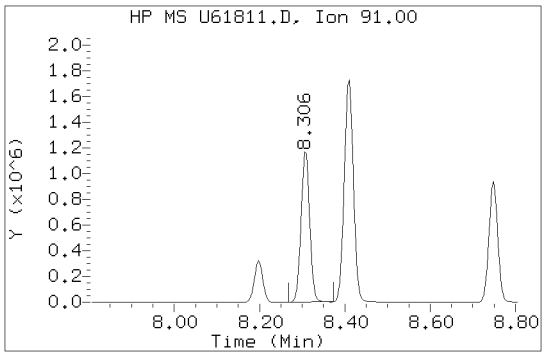
BEFORE

MASS
91
AREA
1686315
HEIGHT
1166527
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

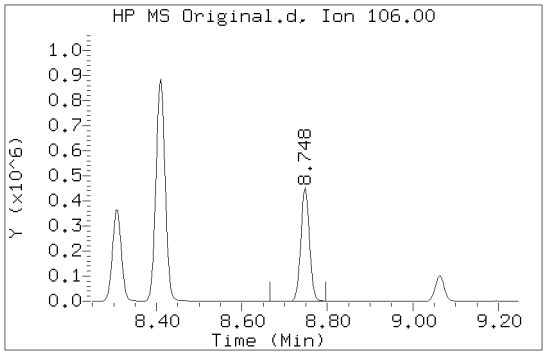
MASS
91
AREA
1686315
HEIGHT
1166527
26-Jun-2024
12:29
RUCHA
PATEL



o-Xylene (95-47-6)

BEFORE

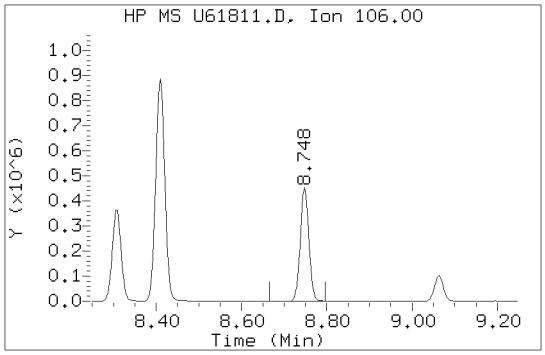
MASS
106
AREA
644470
HEIGHT
453367
26-Jun-2024
12:29
RUCHA
PATEL



Reason Code:

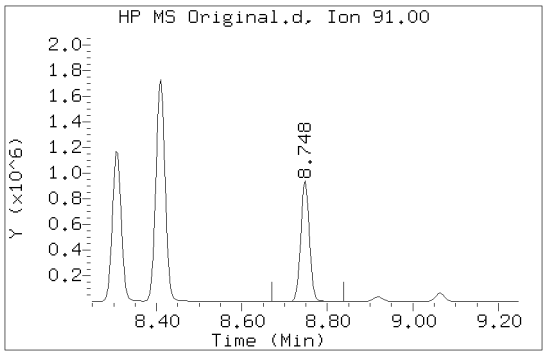
AFTER

MASS
106
AREA
644470
HEIGHT
453367
26-Jun-2024
12:29
RUCHA
PATEL



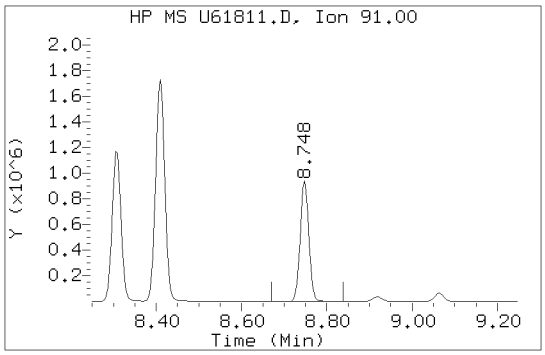
BEFORE

MASS
91
AREA
1343977
HEIGHT
942020
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
91
AREA
1343977
HEIGHT
942020
26-Jun-2024
12:29
RUCHA
PATEL



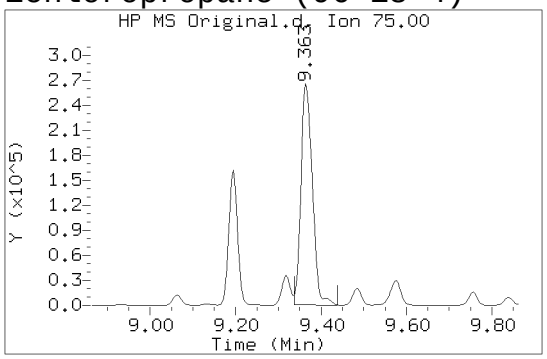
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61811.D
Inj Date : 18-JUN-2024 14:47
InstruID : VOA9.i
LabSampID : VSTD200

1,2,3-Trichloropropane (96-18-4)

Reason Code:

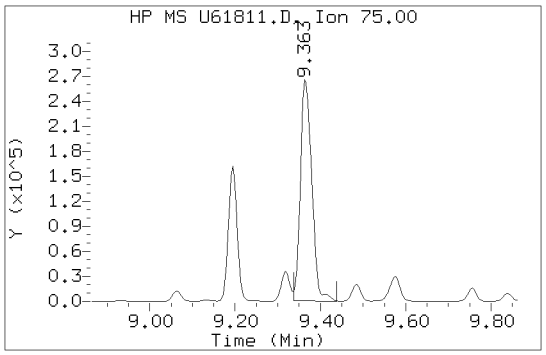
BEFORE

MASS
75
AREA
501438
HEIGHT
265318
26-Jun-2024
12:29
RUCHA
PATEL



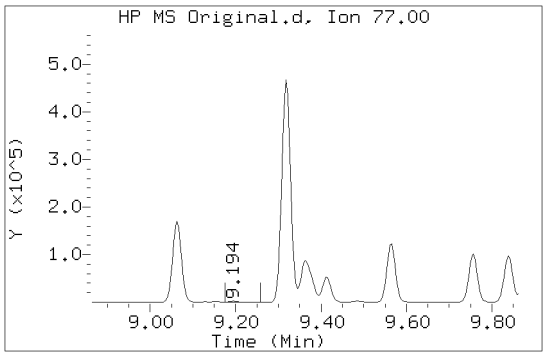
AFTER

MASS
75
AREA
501438
HEIGHT
265318
26-Jun-2024
12:29
RUCHA
PATEL



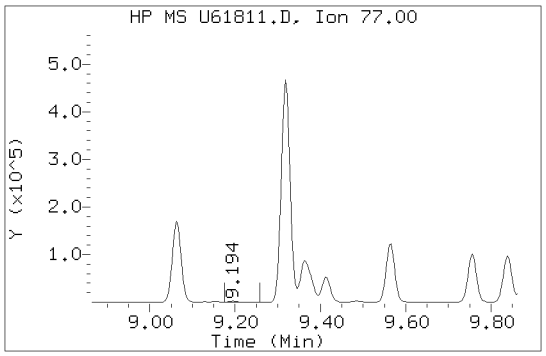
BEFORE

MASS
77
AREA
3095
HEIGHT
2081
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
77
AREA
3095
HEIGHT
2081
26-Jun-2024
12:29
RUCHA
PATEL

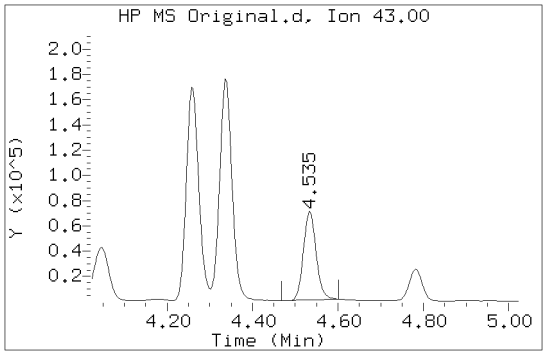


Ethyl Acetate (141-78-6)

Reason Code:

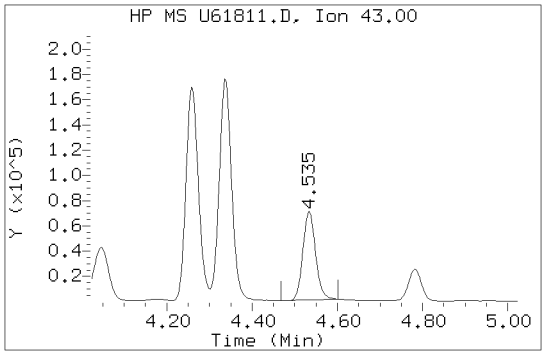
BEFORE

MASS
43
AREA
144830
HEIGHT
70150
26-Jun-2024
12:29
RUCHA
PATEL



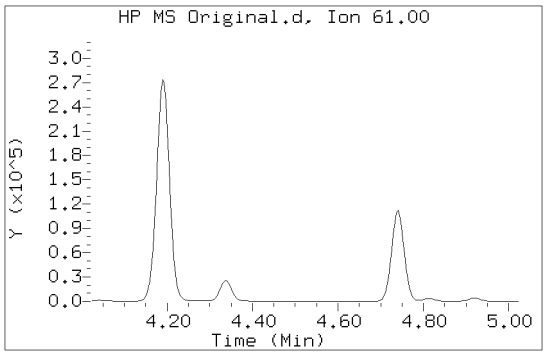
AFTER

MASS
43
AREA
144830
HEIGHT
70150
26-Jun-2024
12:29
RUCHA
PATEL



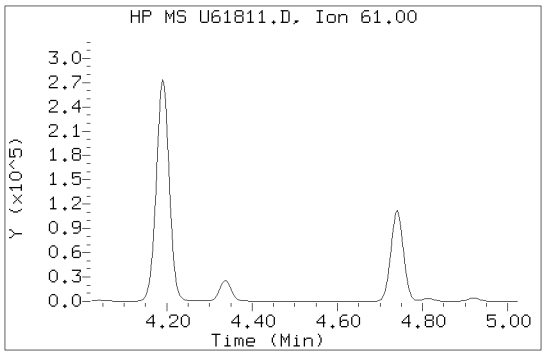
BEFORE

MASS
61
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
61
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL

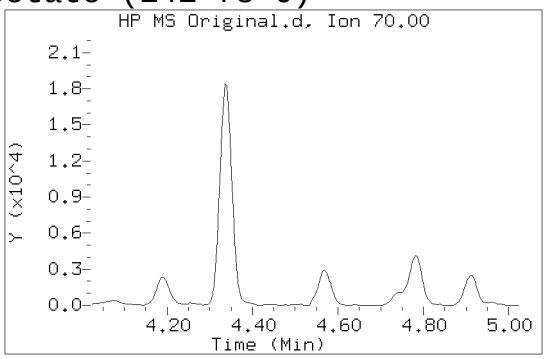


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61811.D
Inj Date : 18-JUN-2024 14:47
InstruID : VOA9.i
LabSampID : VSTD200

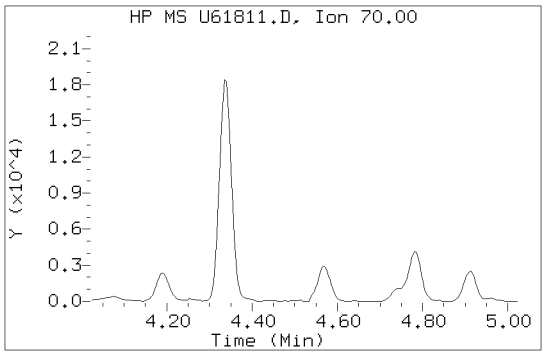
Ethyl Acetate (141-78-6)

Reason Code:

BEFORE
MASS
70
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



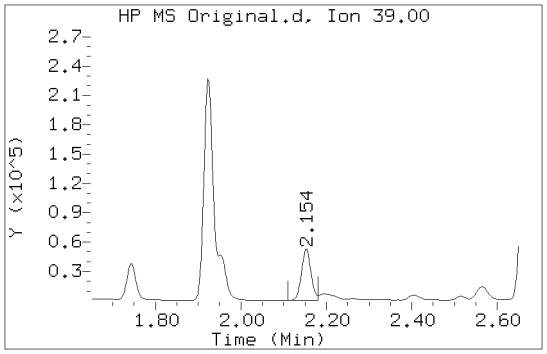
AFTER
MASS
70
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



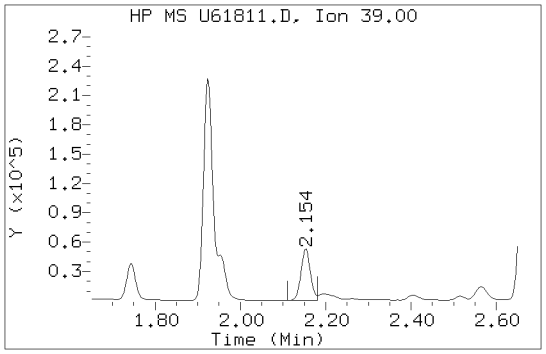
Isoprene (78-79-5)

Reason Code:

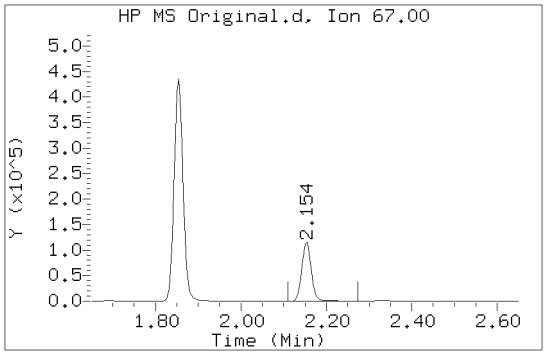
BEFORE
MASS
39
AREA
82599
HEIGHT
52429
26-Jun-2024
12:29
RUCHA
PATEL



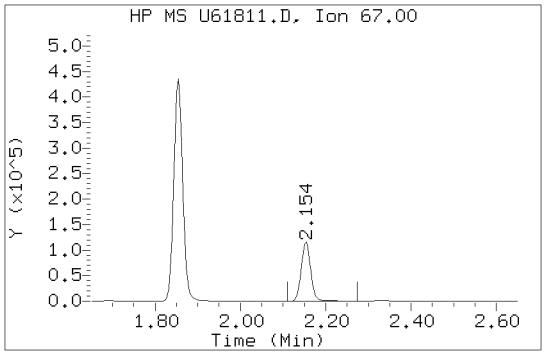
AFTER
MASS
39
AREA
82599
HEIGHT
52429
26-Jun-2024
12:29
RUCHA
PATEL



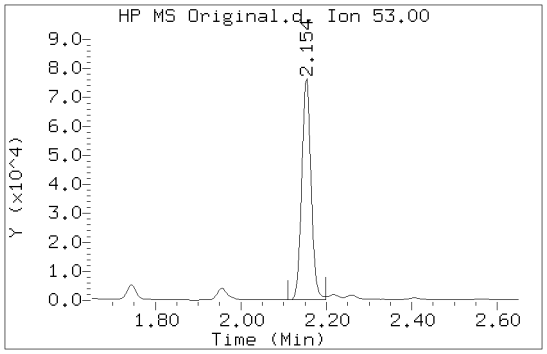
BEFORE
MASS
67
AREA
181707
HEIGHT
115518
26-Jun-2024
12:29
RUCHA
PATEL



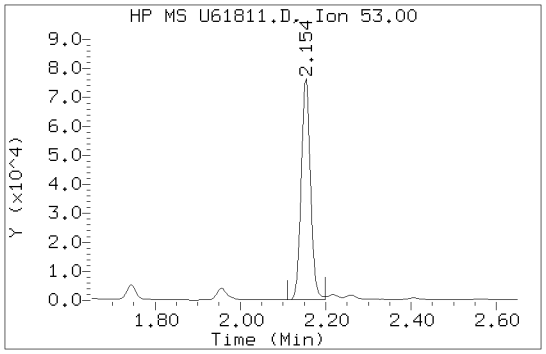
AFTER
MASS
67
AREA
181707
HEIGHT
115518
26-Jun-2024
12:29
RUCHA
PATEL



BEFORE
MASS
53
AREA
118972
HEIGHT
76313
26-Jun-2024
12:29
RUCHA
PATEL



AFTER
MASS
53
AREA
118972
HEIGHT
76313
26-Jun-2024
12:29
RUCHA
PATEL



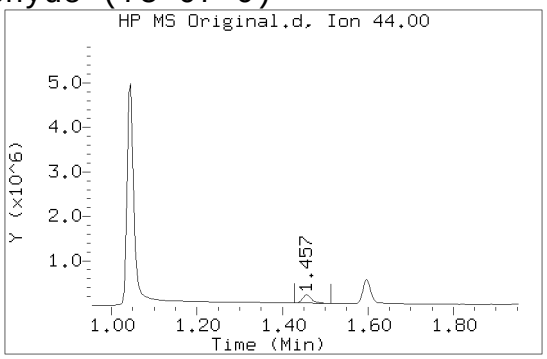
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61811.D
Inj Date : 18-JUN-2024 14:47
InstruID : VOA9.i
LabSampID : VSTD200

Acetaldehyde (75-07-0)

Reason Code:

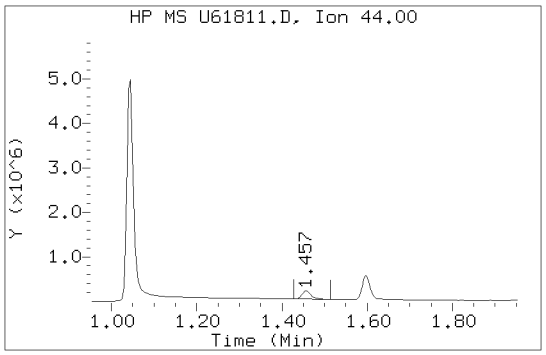
BEFORE

MASS
44
AREA
279773
HEIGHT
193278
26-Jun-2024
12:29
RUCHA
PATEL



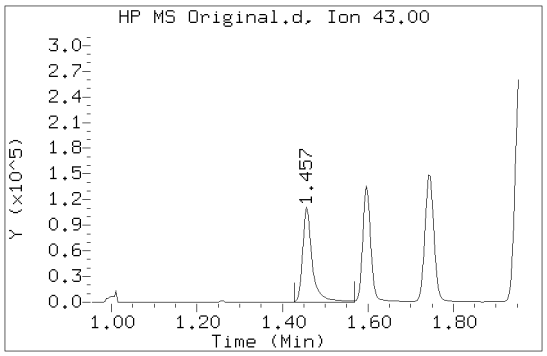
AFTER

MASS
44
AREA
279773
HEIGHT
193278
26-Jun-2024
12:29
RUCHA
PATEL



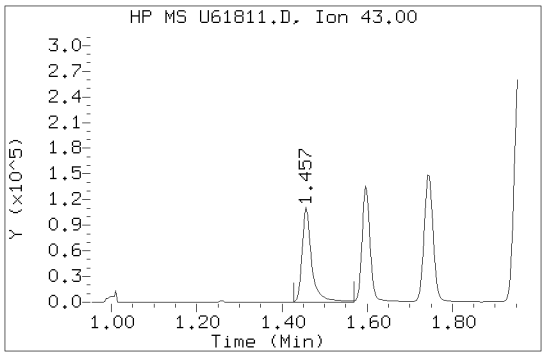
BEFORE

MASS
43
AREA
179494
HEIGHT
111104
26-Jun-2024
12:29
RUCHA
PATEL



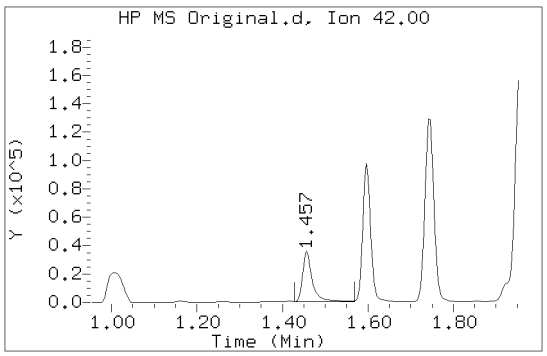
AFTER

MASS
43
AREA
179494
HEIGHT
111104
26-Jun-2024
12:29
RUCHA
PATEL



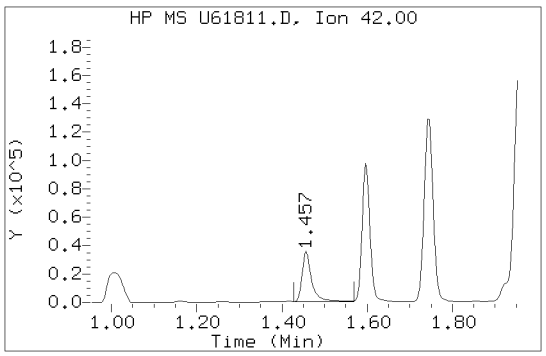
BEFORE

MASS
42
AREA
56989
HEIGHT
35868
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
42
AREA
56989
HEIGHT
35868
26-Jun-2024
12:29
RUCHA
PATEL

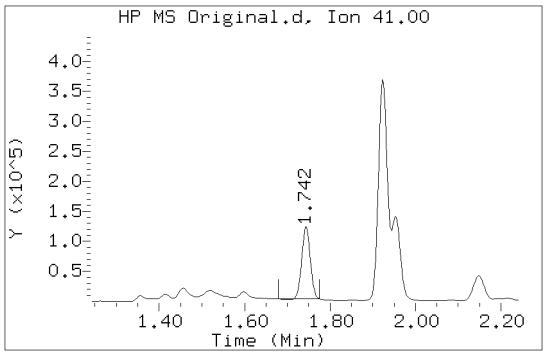


Isobutylene (115-11-7)

Reason Code:

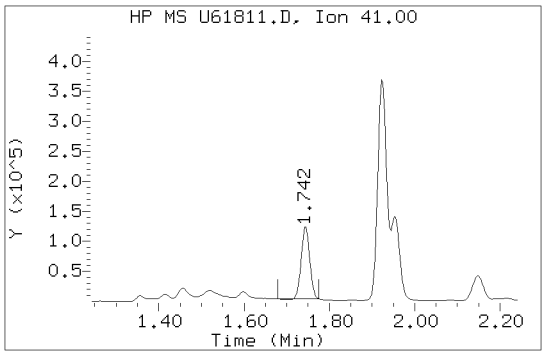
BEFORE

MASS
41
AREA
170733
HEIGHT
119899
26-Jun-2024
12:29
RUCHA
PATEL



AFTER

MASS
41
AREA
170733
HEIGHT
119899
26-Jun-2024
12:29
RUCHA
PATEL

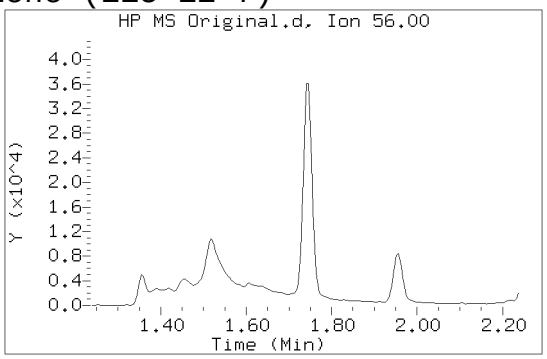


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61811.D
Inj Date : 18-JUN-2024 14:47
InstruID : VOA9.i
LabSampID : VSTD200

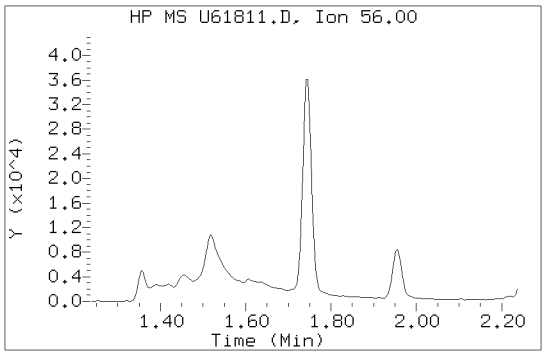
Isobutylene (115-11-7)

Reason Code:

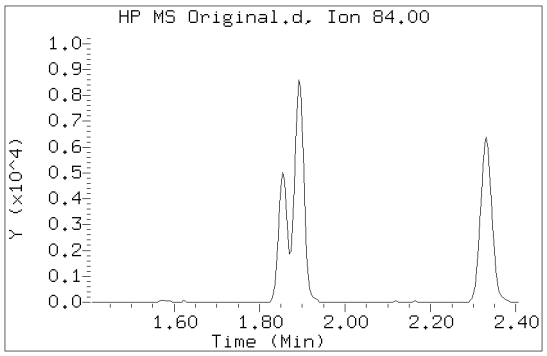
BEFORE
MASS
56
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



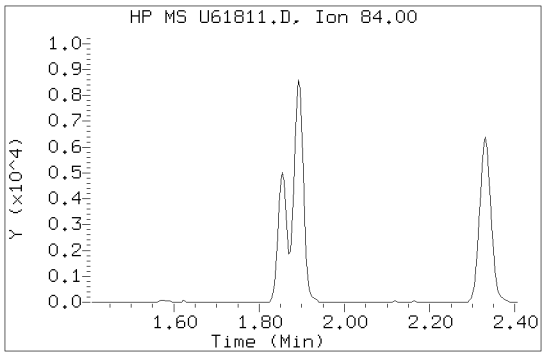
AFTER
MASS
56
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



BEFORE
MASS
84
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



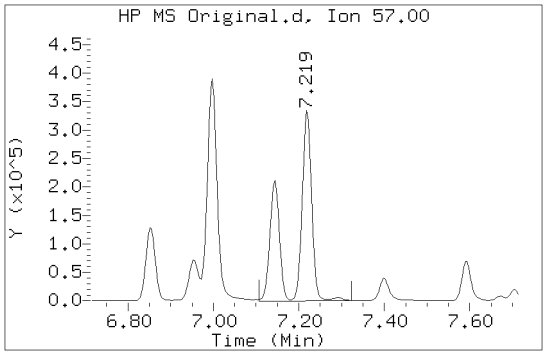
AFTER
MASS
84
AREA
0
HEIGHT
0
26-Jun-2024
12:29
RUCHA
PATEL



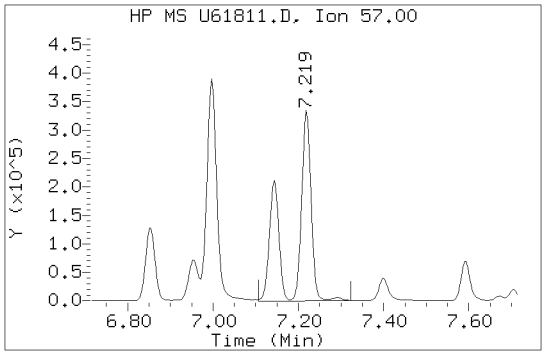
sec-Butyl Ether (6863-58-7)

Reason Code:

BEFORE
MASS
57
AREA
859599
HEIGHT
334539
26-Jun-2024
12:29
RUCHA
PATEL



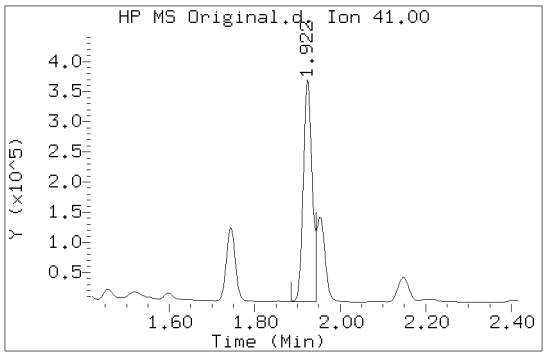
AFTER
MASS
57
AREA
859599
HEIGHT
334539
26-Jun-2024
12:29
RUCHA
PATEL



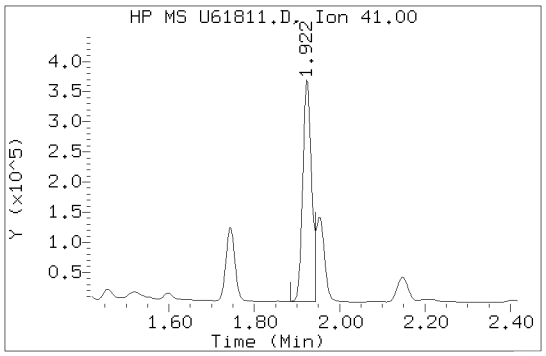
2-Chloropropene (557-98-2)

Reason Code:

BEFORE
MASS
41
AREA
556975
HEIGHT
367667
26-Jun-2024
12:29
RUCHA
PATEL



AFTER
MASS
41
AREA
556975
HEIGHT
367667
26-Jun-2024
12:29
RUCHA
PATEL



Data File: \\nahstws005\Target\chem\voa9.i\U240618.b\U61813.D Page 1
Report Date: 19-Jun-2024 09:44

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240618.b\U61813.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 18-JUN-2024 15:30
Operator : TS Inst ID: VOA9.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240618.b\bfb.m
Meth Date : 27-Jan-2023 08:08 apoluri Quant Type: ISTD
Cal Date : 30-MAR-2018 18:09 Cal File: U033003.d
Als bottle: 13 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7066

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/l)		
RT	EXP RT	REL RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
9.194	9.180	(0.000)	95	71296			0.00- 100.00	100.00
9.194	9.180	(0.000)	50	13275			15.00- 40.00	18.62
9.194	9.180	(0.000)	75	34720			30.00- 60.00	48.70
9.194	9.180	(0.000)	96	4732			5.00- 9.00	6.64
9.194	9.180	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.194	9.180	(0.000)	174	59872			50.00- 0.00	83.98
9.194	9.180	(0.000)	175	5253			5.00- 9.00	8.77
9.194	9.180	(0.000)	176	57328			95.00- 101.00	95.75
9.194	9.180	(0.000)	177	4289			5.00- 9.00	7.48

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.62
75	30.00 - 60.00% of mass 95	48.70
96	5.00 - 9.00% of mass 95	6.64
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	83.98
175	5.00 - 9.00% of mass 174	7.37 (8.77)
176	95.00 - 101.00% of mass 174	80.41 (95.75)
177	5.00 - 9.00% of mass 176	6.02 (7.48)

Data File: U61813.D
Spectrum: Scan 2293 (9.19)
Location of Maximum: 95.05
Number of points: 92

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.10	265	63.00	2518	92.00	1838	140.90	613
36.00	2233	63.90	310	93.00	2852	142.10	110
37.00	3664	65.00	265	94.10	8394	142.90	740
38.00	3681	67.10	287	95.00	71296	144.90	100
39.00	1352	68.00	7267	96.00	4732	145.60	83
39.90	214	69.00	6999	97.00	168	147.90	178
40.90	108	69.90	643	103.90	303	149.70	92
42.00	75	71.90	449	104.70	81	152.00	64
42.90	115	73.00	3334	105.80	296	152.90	58
44.00	657	74.00	11547	106.90	71	153.90	67
45.00	626	75.00	34720	111.00	68	154.80	203
47.00	1178	76.00	3321	113.00	59	156.80	175
48.00	439	76.90	382	114.80	103	158.90	73
49.00	2909	77.90	308	115.80	276	160.80	89
50.00	13275	78.90	1801	116.90	435	171.90	451
51.00	4724	79.90	629	117.80	247	173.90	59872
52.10	215	80.90	1839	118.90	389	175.00	5253
54.90	243	81.90	442	127.80	243	175.90	57328
56.00	1040	83.10	90	128.90	120	176.90	4289
57.00	1920	86.00	167	129.90	244	177.80	152
58.10	127	87.00	3136	131.00	85		
60.00	719	87.90	3260	134.80	151		
61.00	3119	90.10	70	136.70	81		
62.00	3134	90.90	281	140.00	75		

Data File: \\nahstws005\Target\chem\voa9.i\U240618.b\U61813.D Page 1

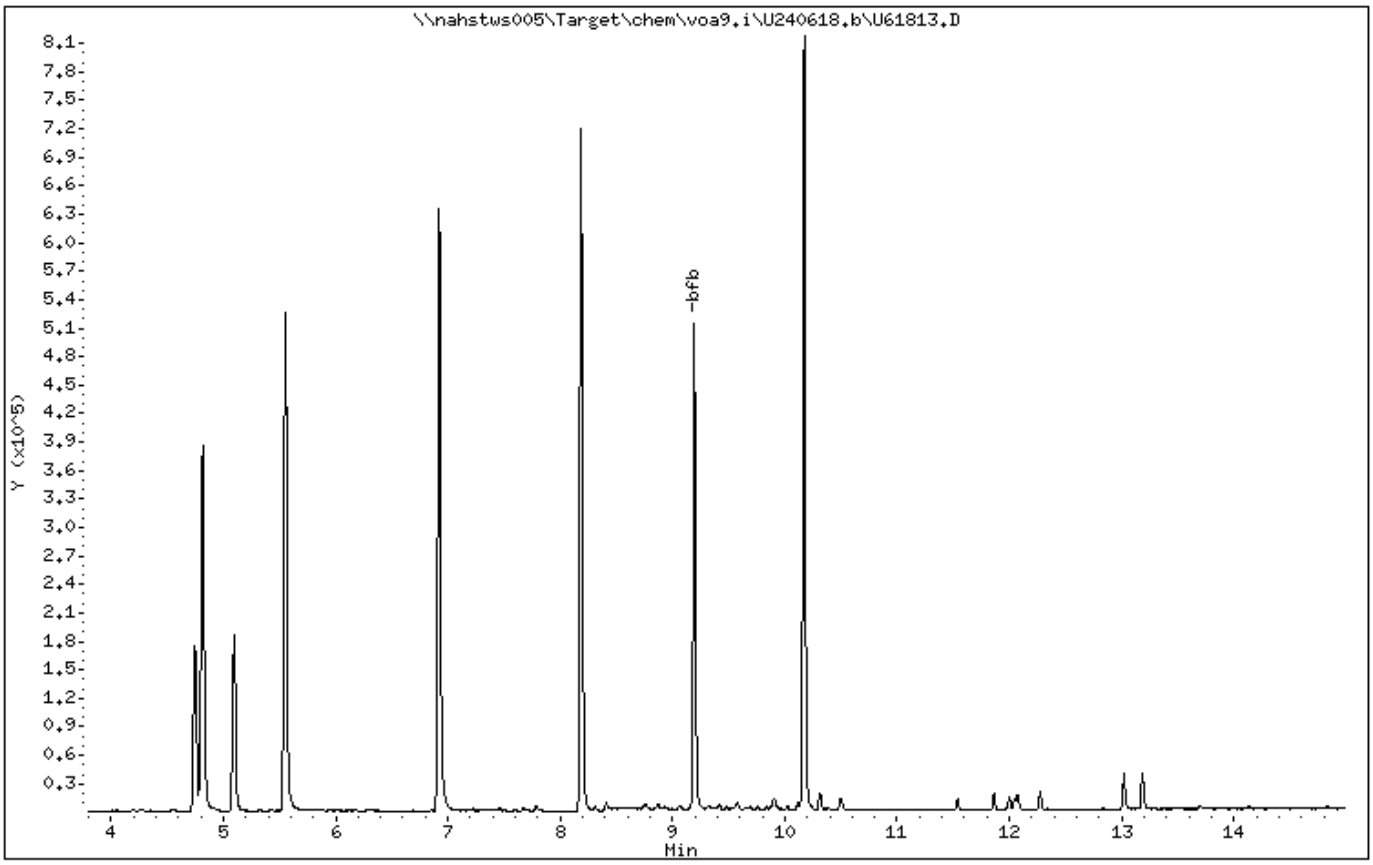
Date : 18-JUN-2024 15:30

Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: TS

Column phase: DB624 Column diameter: 0.25



Data File: \\nahstws005\Target\chem\voa9.i\U240618.b\U61813.D Page 2

Date : 18-JUN-2024 15:30

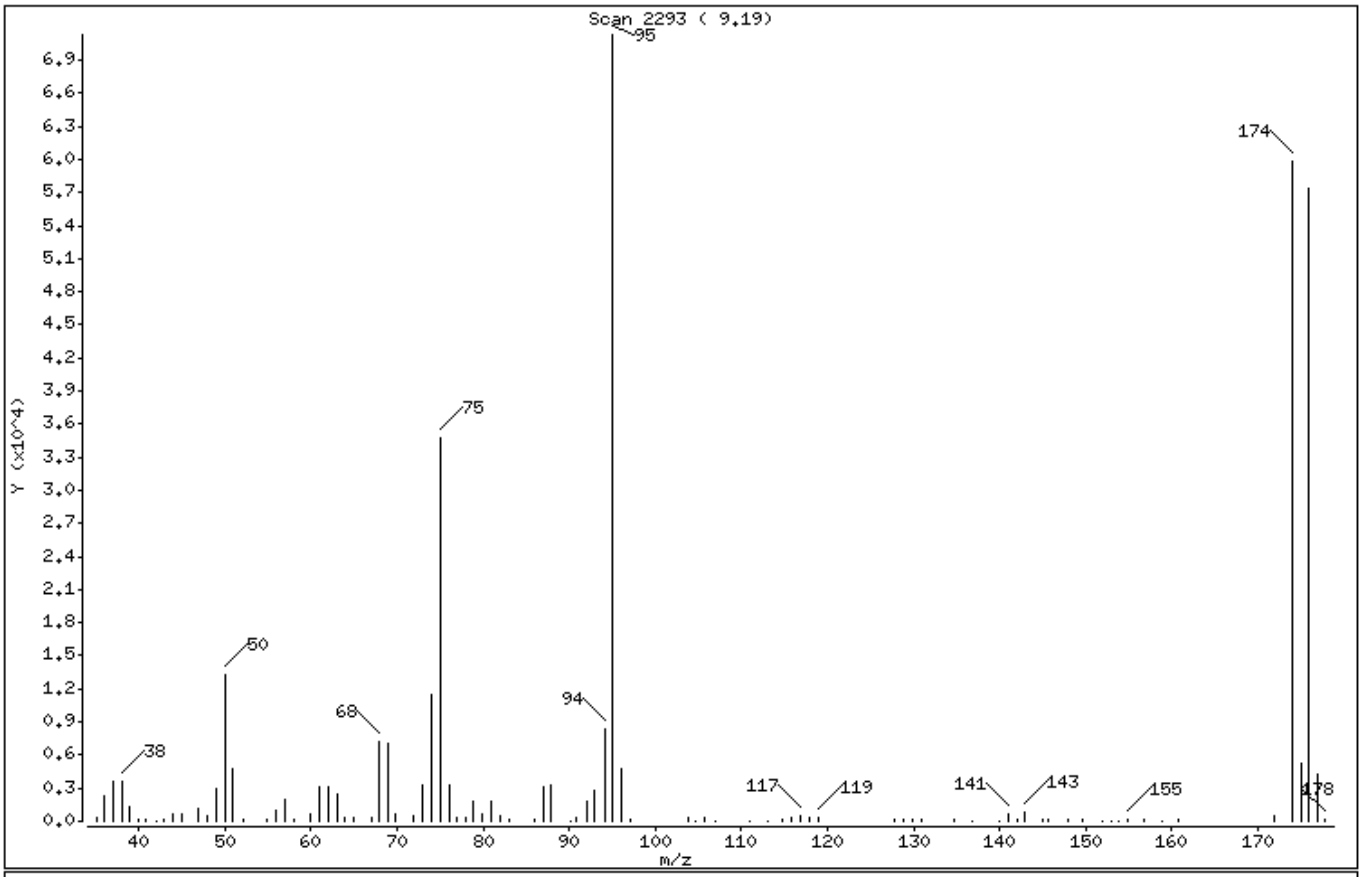
Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: TS

Column phase: DB624 Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.62
75	30.00 - 60.00% of mass 95	48.70
96	5.00 - 9.00% of mass 95	6.64
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	83.98
175	5.00 - 9.00% of mass 174	7.37 (8.77)
176	95.00 - 101.00% of mass 174	80.41 (95.75)
177	5.00 - 9.00% of mass 176	6.02 (7.48)

Data File: \\nahstws005\Target\chem\voa9.i\U240618.b\U61813.D Page 3

Date : 18-JUN-2024 15:30

Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: TS

Column phase: DB624 Column diameter: 0.25

Data File: U61813.D
Spectrum: Scan 2293 (9.19)
Location of Maximum: 95.05
Number of points: 92

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.10	265	63.00	2518	92.00	1838	140.90	613
36.00	2233	63.90	310	93.00	2852	142.10	110
37.00	3664	65.00	265	94.10	8394	142.90	740
38.00	3681	67.10	287	95.00	71296	144.90	100
39.00	1352	68.00	7267	96.00	4732	145.60	83
39.90	214	69.00	6999	97.00	168	147.90	178
40.90	108	69.90	643	103.90	303	149.70	92
42.00	75	71.90	449	104.70	81	152.00	64
42.90	115	73.00	3334	105.80	296	152.90	58
44.00	657	74.00	11547	106.90	71	153.90	67
45.00	626	75.00	34720	111.00	68	154.80	203
47.00	1178	76.00	3321	113.00	59	156.80	175
48.00	439	76.90	382	114.80	103	158.90	73
49.00	2909	77.90	308	115.80	276	160.80	89
50.00	13275	78.90	1801	116.90	435	171.90	451
51.00	4724	79.90	629	117.80	247	173.90	59872
52.10	215	80.90	1839	118.90	389	175.00	5253
54.90	243	81.90	442	127.80	243	175.90	57328
56.00	1040	83.10	90	128.90	120	176.90	4289
57.00	1920	86.00	167	129.90	244	177.80	152
58.10	127	87.00	3136	131.00	85		
60.00	719	87.90	3260	134.80	151		
61.00	3119	90.10	70	136.70	81		
62.00	3134	90.90	281	140.00	75		

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61814.D Page 1
Report Date: 26-Jun-2024 12:31

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61814.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 18-JUN-2024 15:51
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD050;VSTD050;2;;ICV
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240618.b\8260C.m
Meth Date : 26-Jun-2024 12:31 VOA9.i Quant Type: ISTD
Cal Date : 18-JUN-2024 14:47 Cal File: U61811.D
Als bottle: 14 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.811	4.812	(1.000)	283787	50.0000	
2 Dichlorodifluoromethane	85	1.160	1.160	(0.241)	68113	46.1084	46.10(M)
3 Chloromethane	50	1.295	1.292	(0.269)	193929	43.9647	43.96
4 Propionitrile	54	4.332	4.335	(0.900)	119008	482.912	482.91
5 Vinyl Chloride	62	1.374	1.374	(0.286)	101923	46.6874	46.68(M)
6 Bromomethane	94	1.614	1.603	(0.335)	41600	55.9717	55.97
7 Chloroethane	64	1.696	1.693	(0.353)	69799	46.2450	46.24(M)
8 Trichlorofluoromethane	101	1.891	1.891	(0.393)	124439	47.3135	47.31
9 Acrolein	56	2.259	2.259	(0.469)	8054	89.7239	89.72
10 Acetone	43	2.405	2.405	(0.500)	63052	93.3348	93.33
11 1,1-Dichloroethene	96	2.330	2.330	(0.484)	73824	46.8446	46.84
12 Isobutyl Alcohol	43	5.280	5.284	(1.097)	234276	905.687	905.68
13 Acetonitrile	39	2.667	2.667	(0.554)	101140	477.168	477.16
14 Allyl Chloride	41	2.667	2.667	(0.554)	231528	47.4449	47.44
15 Iodomethane	142	2.461	2.461	(0.512)	31073	134.190	134.18(R)
16 Acrylonitrile	53	3.061	3.061	(0.636)	62135	94.6861	94.68
17 Methylene Chloride	84	2.791	2.787	(0.580)	92911	46.3645	46.36
18 Methyl tert-butyl ether	73	3.076	3.076	(0.639)	224918	48.2284	48.22
19 Carbon Disulfide	76	2.517	2.514	(0.523)	435383	94.2229	94.22
20 trans-1,2-Dichloroethene	96	3.053	3.053	(0.635)	82816	47.2918	47.29

21 Vinyl Acetate	43	4.335	4.335 (0.901)	86485	93.1679	93.16
22 1,1-Dichloroethane	63	3.511	3.507 (0.730)	153105	47.0035	47.00

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61814.D Page 2
Report Date: 26-Jun-2024 12:31

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	23 Chloroprene	53	3.604	3.604	(0.749)	125216	43.6583	43.65
	24 2-Butanone	43	4.257	4.257	(0.885)	81978	90.9205	90.92
	25 Methacrylonitrile	41	4.489	4.489	(0.933)	52215	46.7036	46.70(a)
	26 2,2-Dichloropropane	77	4.178	4.178	(0.868)	111582	44.4966	44.49
	27 cis-1,2-Dichloroethene	96	4.193	4.193	(0.871)	96020	47.3557	47.35
	28 Chloroform	83	4.568	4.568	(0.949)	155852	46.7069	46.70
	29 Bromochloromethane	128	4.467	4.467	(0.928)	47252	46.1345	46.13
$	30 Dibromofluoromethane	113	4.744	4.744	(0.986)	80729	44.7204	44.72
	31 1,1,1-Trichloroethane	97	4.740	4.740	(0.985)	125256	46.3313	46.33
	32 1,1-Dichloropropene	75	4.920	4.920	(0.887)	116704	43.6089	43.60
	33 1,2-Dichloroethane	62	5.171	5.171	(0.932)	121285	47.8968	47.89
	34 Carbon Tetrachloride	117	4.909	4.909	(0.885)	102564	45.6299	45.62(M)
$	35 1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	96470	44.7590	44.75
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	412752	50.0000	
	37 Benzene	78	5.134	5.138	(0.925)	356740	46.7243	46.72
	38 Trichloroethene	130	5.786	5.786	(1.043)	92364	46.8662	46.86
	39 Bromodichloromethane	83	6.277	6.277	(1.131)	109585	46.5836	46.58
	40 Methyl Methacrylate	41	5.820	5.824	(1.210)	30450	46.2661	46.26
	41 2-Chloroethylvinyl ether	63	6.577	6.573	(1.185)	5046	90.6654	90.66
	42 1,2-Dichloropropane	63	5.550	6.007	(1.000)	84969	42.2244	42.22
	43 2-Nitropropane	43	6.506	6.506	(1.352)	20625	44.6890	44.68(M)
	44 Dibromomethane	93	6.116	6.116	(1.102)	55156	45.8626	45.86
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	177309	92.8785	92.87
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	133717	44.9783	44.97
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	380612	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	306824	46.6082	46.60
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	115761	47.4650	47.46
	50 Toluene	91	6.978	6.982	(0.853)	374952	46.7018	46.70
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	111273	46.1376	46.13
	52 2-Hexanone	43	7.214	7.222	(0.881)	156947	92.2764	92.27
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	68993	48.0736	48.07
	54 1,3-Dichloropropane	76	7.496	7.499	(0.916)	147819	46.2050	46.20
	55 Dibromochloromethane	129	7.690	7.691	(0.940)	84442	45.6108	45.61
	56 Tetrachloroethene	164	7.454	7.458	(0.911)	75185	46.1584	46.15
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	81117	46.4312	46.43
	58 1-Chlorohexane	55	8.197	8.197	(1.477)	70199	47.0293	47.02
	59 Chlorobenzene	112	8.208	8.208	(1.003)	246136	47.2043	47.20
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	84399	45.5480	45.54
	61 Ethylbenzene	106	8.305	8.305	(1.015)	124929	47.9039	47.90(M)
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	311905	99.6238	99.62
	63 o-Xylene	106	8.748	8.748	(1.069)	154275	50.1830	50.18(M)
	64 Styrene	104	8.763	8.763	(1.071)	257516	48.9903	48.99
	66 Bromoform	173	8.920	8.920	(1.090)	54122	45.9230	45.92
	67 Isopropylbenzene	105	9.063	9.063	(1.107)	388115	48.0865	48.08
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	113486	46.9491	46.94
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	117008	46.4390	46.43
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	212800	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	113434	48.3451	48.34(M)
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	23291	46.0688	46.06
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	450348	48.7476	48.74
	74 Bromobenzene	156	9.317	9.317	(0.916)	107468	46.8226	46.82
	75 1,3,5-Trimethylbenzene	105	9.561	9.565	(0.940)	308818	51.7660	51.76

76	2-Chlorotoluene	91	9.482	9.482 (0.932)	274456	47.0574	47.05
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	316876	47.4589	47.45

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61814.D Page 3
Report Date: 26-Jun-2024 12:31

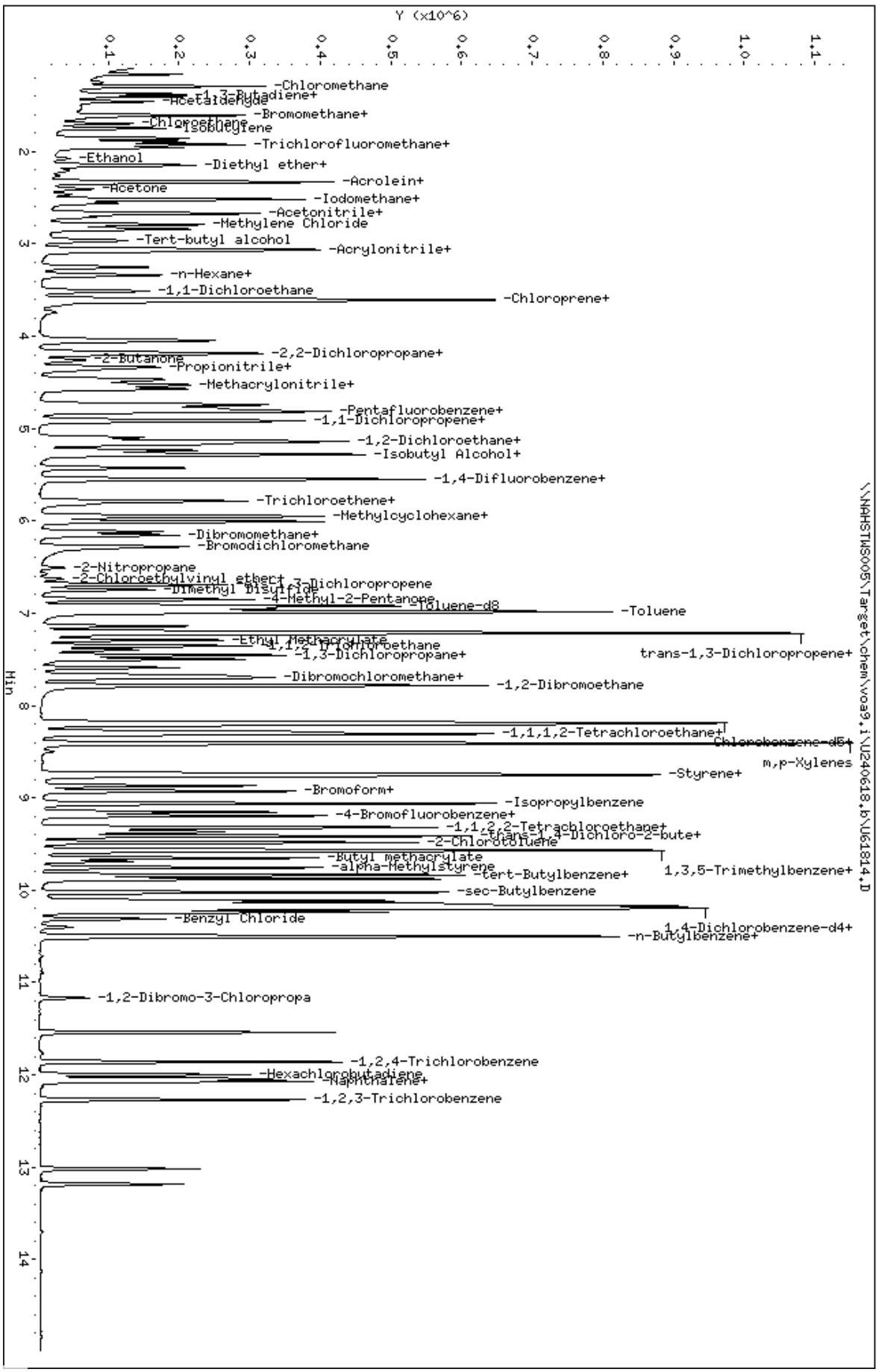
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
78	tert-Butylbenzene	119	9.838	9.839	(0.967)	276939	48.3101	48.31
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	289026	48.1192	48.11
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	365247	48.2053	48.20
82	p-Isopropyltoluene	119	10.146	10.150	(0.997)	314986	49.3724	49.37
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	193472	47.3658	47.36
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	199078	46.8769	46.87
86	Benzyl Chloride	91	10.311	10.311	(1.260)	115419	46.4355	46.43
87	n-Butylbenzene	91	10.495	10.495	(1.032)	275574	47.1467	47.14
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	186945	46.5858	46.58
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	13971	46.5599	46.55
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	127667	48.0501	48.05
91	Hexachlorobutadiene	225	12.001	12.002	(1.180)	54669	46.8713	46.87
92	Naphthalene	128	12.069	12.069	(1.186)	268881	46.2386	46.23
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	112280	46.7317	46.73
146	Methyl acetate	43	2.708	2.709	(0.563)	67199	46.3903	46.39
138	Freon TF	101	2.334	2.330	(0.485)	72459	46.6924	46.69
141	Cyclohexane	56	4.782	4.782	(0.994)	123845	47.5557	47.55
142	Tetrahydrofuran	42	4.538	4.538	(0.943)	32360	99.6202	99.62
147	Methylcyclohexane	55	5.944	5.944	(1.071)	204540	45.0906	45.09
135	1,4-Dioxane	88	6.165	6.165	(1.281)	20748	927.548	927.54
132	n-Butanol	56	5.820	5.824	(1.210)	43234	916.033	916.03
136	n-Hexane	57	3.338	3.338	(0.694)	86265	46.2308	46.23
139	Diethyl ether	59	2.142	2.139	(0.445)	65239	48.0649	48.06
148	Tert-butyl alcohol	59	2.963	2.967	(0.616)	140117	948.719	948.71
149	Isopropyl alcohol	45	2.559	2.562	(0.532)	112069	966.463	966.46
156	Diisopropyl ether	45	3.616	3.616	(0.751)	289208	48.2319	48.23
162	Butyl acrylate	55	8.733	8.733	(1.067)	149178	48.1364	48.13
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	389055	50.2651	50.26
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	259455	48.7727	48.77
167	Ethanol	45	2.079	2.083	(0.432)	22004	933.918	933.91
172	tert-Butyl formate	59	5.235	5.243	(1.088)	121598	84.7812	84.78
151	4-Methyl-2-pentanol	45	7.214	7.222	(1.300)	627238	911.391	911.39
140	1,3-Butadiene	54	1.400	1.400	(0.291)	42161	43.8718	43.87
182	Epichlorohydrin	57	6.630	6.630	(1.195)	12785	196.966	196.96
M 94	1,2-Dichloroethylene (total)	96				178836	94.6521	94.65
M 95	Xylenes (total)	106				466180	148.045	148.04
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	111973	47.6561	47.65
130	Ethyl Acetate	43	4.527	4.534	(0.941)	37945	43.4126	43.41(M)
131	Methyl Acrylate	55	4.365	4.365	(0.907)	97291	48.0265	48.02
189	n-Butyl acetate	43	7.705	7.706	(0.941)	133738	47.7037	47.70
134	Cyclohexanone	55	9.152	9.153	(0.900)	127183	970.040	970.04
185	Isoprene	39	2.154	2.154	(0.448)	19893	46.7230	46.72
188	Isopropyl acetate	43	5.280	5.284	(0.951)	233398	46.2453	46.24
150	Allyl alcohol	57	3.338	3.338	(0.694)	86265	924.616	924.61
194	Acetaldehyde	44	1.456	1.456	(0.303)	75747	179.681	179.68(M)
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	69590	52.4243	52.42
202	Isobutylene	41	1.749	1.741	(0.364)	41629	50.2562	50.25(M)
133	Ethyl Acrylate	55	5.944	5.944	(1.235)	204540	44.4973	44.49
163	Butyl methacrylate	41	9.647	9.651	(0.948)	96724	51.0674	51.06
159	Propylene oxide	43	2.199	2.195	(0.457)	11399	97.0442	97.04
178	Ethylene oxide	44	1.603	1.595	(0.333)	180190	106.495	106.49(M)
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	100724	48.6379	48.63

204 Tetrahydrothiophene	60	7.672	7.672 (0.937)	96786	49.4741	49.47(A)
205 sec-Butyl Ether	57	7.214	7.218 (0.881)	178306	48.4733	48.47(AM)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
187 n-Amyl acetate	43	8.931	8.931	(1.091)	139535	46.7752	46.77
206 2-Chloropropene	41	1.925	1.921	(0.400)	129442	45.2461	45.24(AM)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.



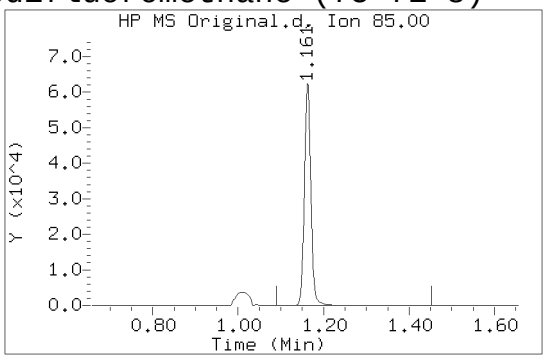
Data File: \\NAHSTWS005\Target\chem\voa9,i\U240618,b\U61814,D
Date : 18-JUN-2024 15:51
Client ID: VSTD050
Sample Info: VSTD050;VSTD050;2;;ICV
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: TS
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61814.D
Inj Date : 18-JUN-2024 15:51
InstruID : VOA9.i
LabSampID : VSTD050

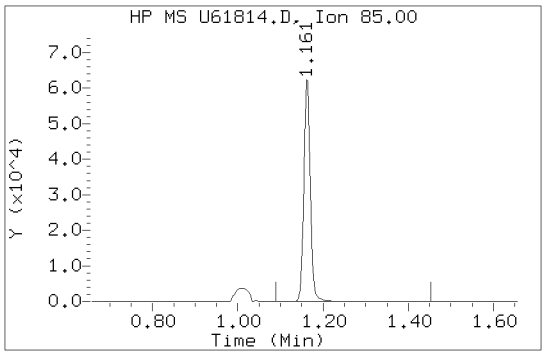
Dichlorodifluoromethane (75-71-8)

BEFORE
MASS
85
AREA
68113
HEIGHT
62400
26-Jun-2024
12:30
RUCHA
PATEL

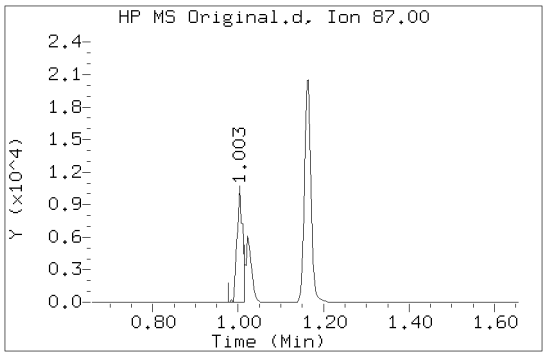


Reason Code:

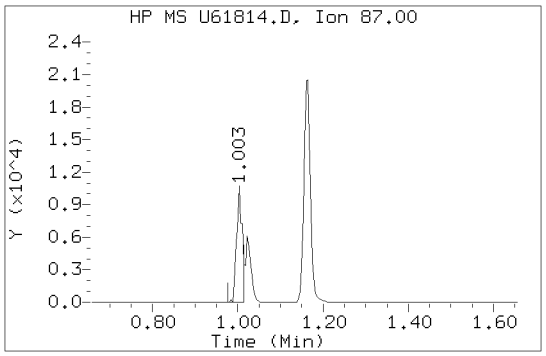
AFTER
MASS
85
AREA
68113
HEIGHT
62400
26-Jun-2024
12:30
RUCHA
PATEL



BEFORE
MASS
87
AREA
9657
HEIGHT
10718
26-Jun-2024
12:30
RUCHA
PATEL

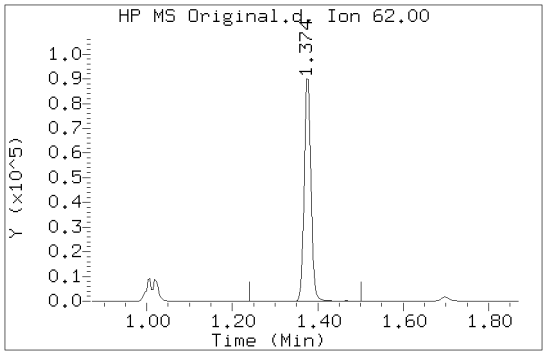


AFTER
MASS
87
AREA
9657
HEIGHT
10718
26-Jun-2024
12:30
RUCHA
PATEL



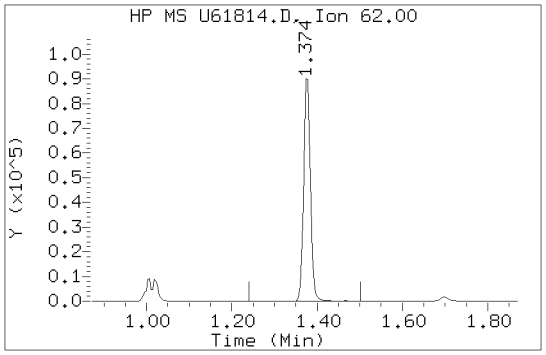
Vinyl Chloride (75-01-4)

BEFORE
MASS
62
AREA
101923
HEIGHT
89931
26-Jun-2024
12:30
RUCHA
PATEL

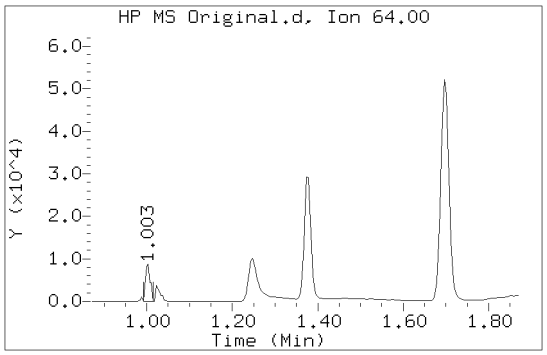


Reason Code:

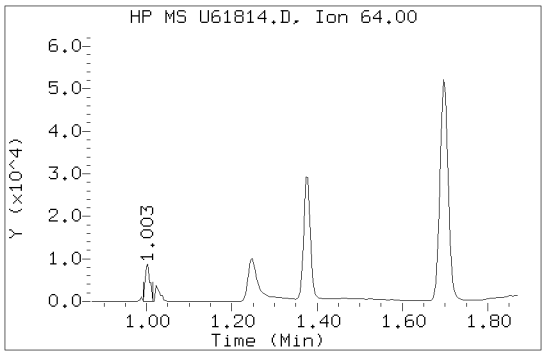
AFTER
MASS
62
AREA
101923
HEIGHT
89931
26-Jun-2024
12:30
RUCHA
PATEL



BEFORE
MASS
64
AREA
6621
HEIGHT
8725
26-Jun-2024
12:30
RUCHA
PATEL



AFTER
MASS
64
AREA
6621
HEIGHT
8725
26-Jun-2024
12:30
RUCHA
PATEL



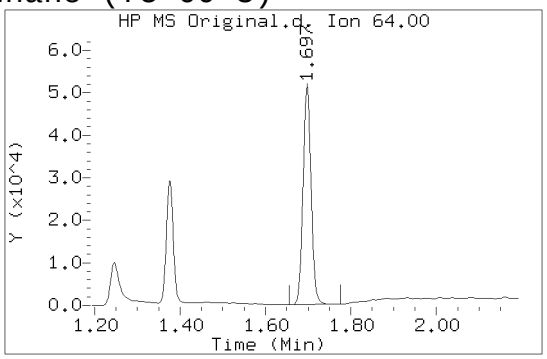
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61814.D
Inj Date : 18-JUN-2024 15:51
InstruID : VOA9.i
LabSampID : VSTD050

Chloroethane (75-00-3)

Reason Code:

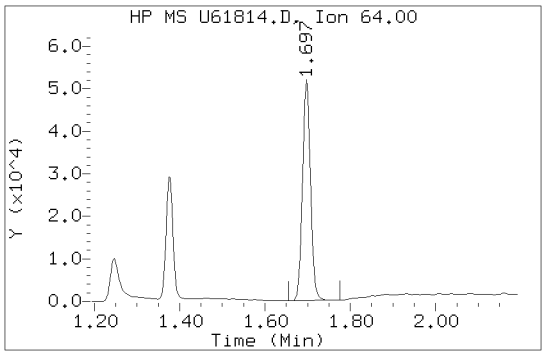
BEFORE

MASS
64
AREA
69799
HEIGHT
51983
26-Jun-2024
12:30
RUCHA
PATEL



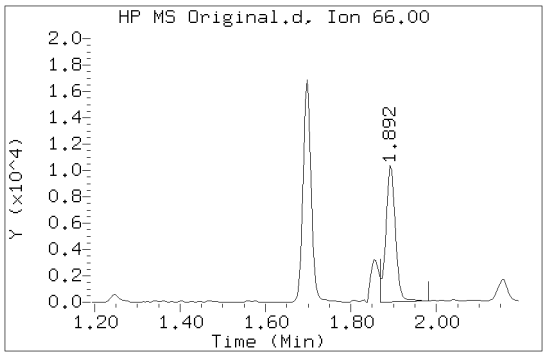
AFTER

MASS
64
AREA
69799
HEIGHT
51983
26-Jun-2024
12:30
RUCHA
PATEL



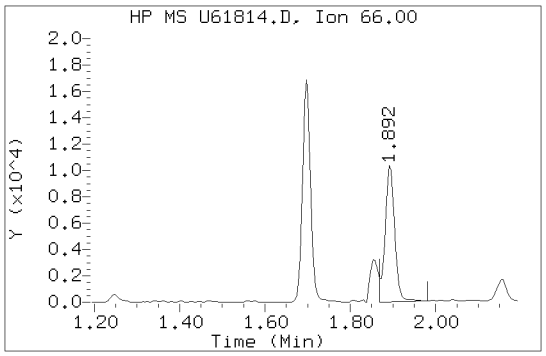
BEFORE

MASS
66
AREA
16221
HEIGHT
10387
26-Jun-2024
12:30
RUCHA
PATEL



AFTER

MASS
66
AREA
16221
HEIGHT
10387
26-Jun-2024
12:30
RUCHA
PATEL

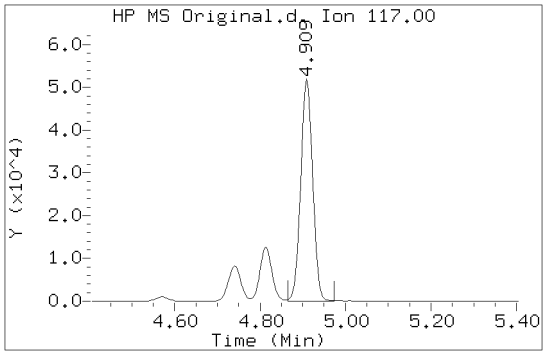


Carbon Tetrachloride (56-23-5)

Reason Code:

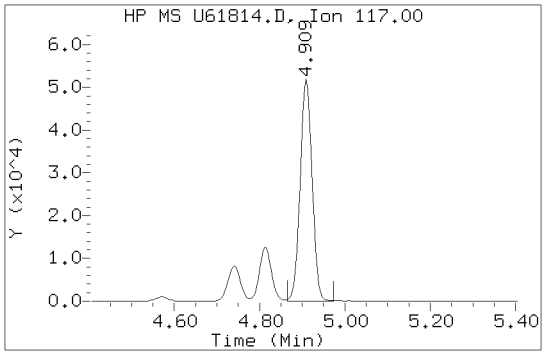
BEFORE

MASS
117
AREA
102564
HEIGHT
51991
26-Jun-2024
12:30
RUCHA
PATEL



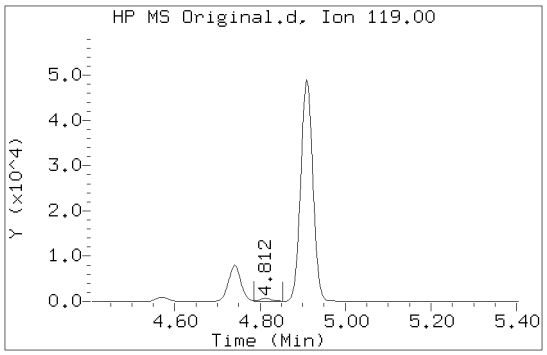
AFTER

MASS
117
AREA
102564
HEIGHT
51991
26-Jun-2024
12:30
RUCHA
PATEL



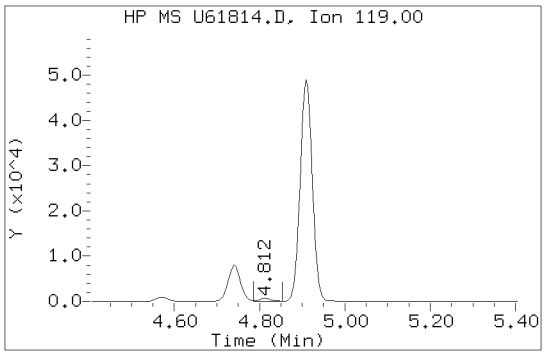
BEFORE

MASS
119
AREA
1267
HEIGHT
654
26-Jun-2024
12:30
RUCHA
PATEL



AFTER

MASS
119
AREA
1267
HEIGHT
654
26-Jun-2024
12:30
RUCHA
PATEL

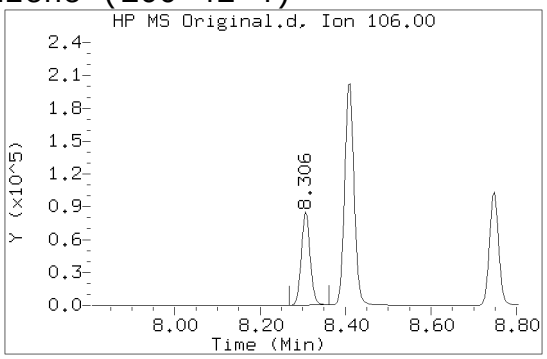


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61814.D
Inj Date : 18-JUN-2024 15:51
InstruID : VOA9.i
LabSampID : VSTD050

Ethylbenzene (100-41-4)

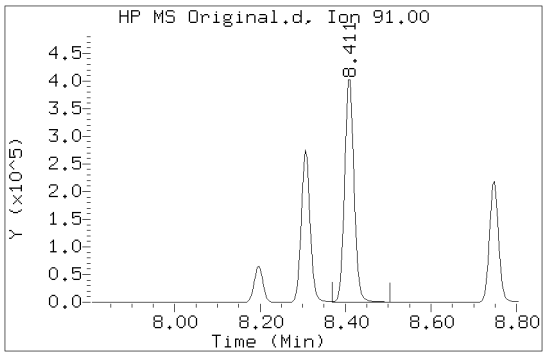
BEFORE

MASS
106
AREA
124929
HEIGHT
85202
26-Jun-2024
12:30
RUCHA
PATEL



BEFORE

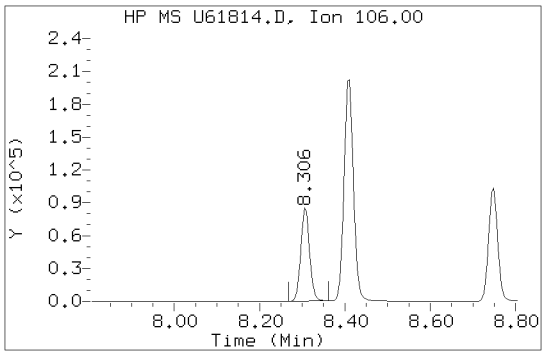
MASS
91
AREA
618222
HEIGHT
401636
26-Jun-2024
12:30
RUCHA
PATEL



Reason Code:

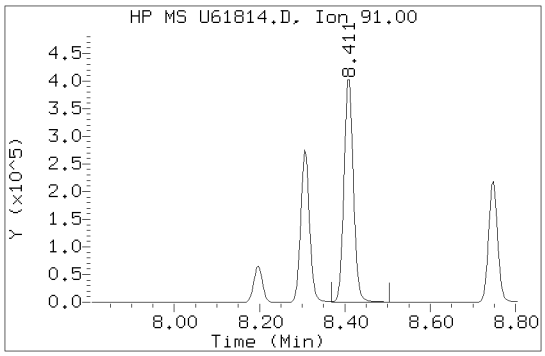
AFTER

MASS
106
AREA
124929
HEIGHT
85202
26-Jun-2024
12:30
RUCHA
PATEL



AFTER

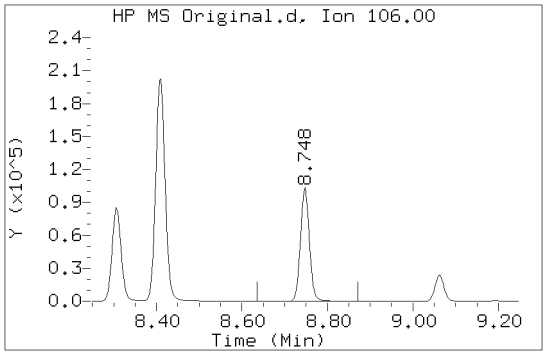
MASS
91
AREA
618222
HEIGHT
401636
26-Jun-2024
12:30
RUCHA
PATEL



o-Xylene (95-47-6)

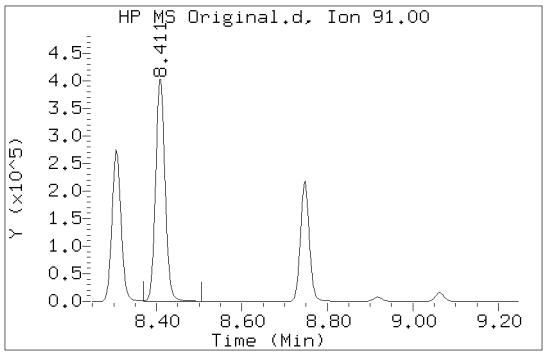
BEFORE

MASS
106
AREA
154275
HEIGHT
103432
26-Jun-2024
12:30
RUCHA
PATEL



BEFORE

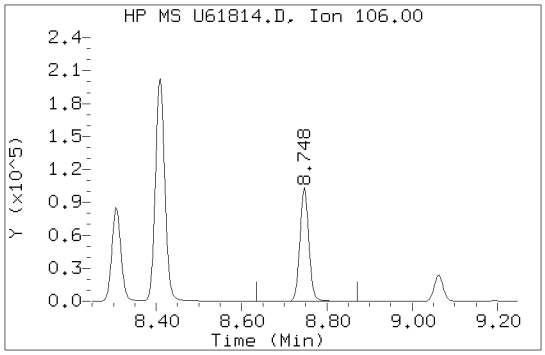
MASS
91
AREA
618222
HEIGHT
401636
26-Jun-2024
12:30
RUCHA
PATEL



Reason Code:

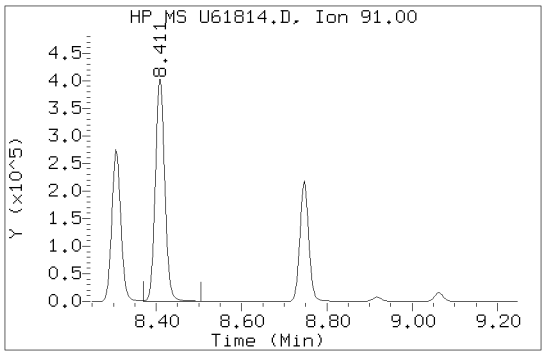
AFTER

MASS
106
AREA
154275
HEIGHT
103432
26-Jun-2024
12:30
RUCHA
PATEL



AFTER

MASS
91
AREA
618222
HEIGHT
401636
26-Jun-2024
12:30
RUCHA
PATEL



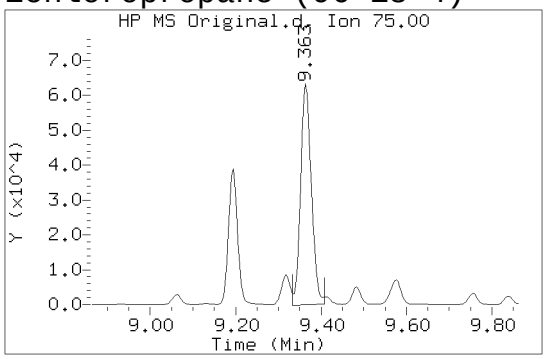
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61814.D
Inj Date : 18-JUN-2024 15:51
InstruID : VOA9.i
LabSampID : VSTD050

1,2,3-Trichloropropane (96-18-4)

Reason Code:

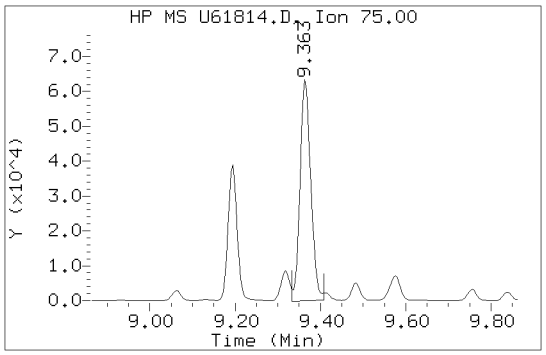
BEFORE

MASS
75
AREA
113434
HEIGHT
63395
26-Jun-2024
12:30
RUCHA
PATEL



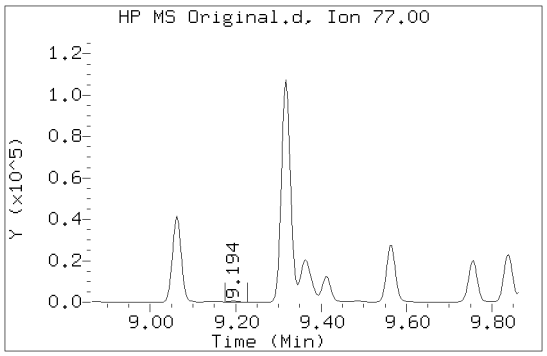
AFTER

MASS
75
AREA
113434
HEIGHT
63395
26-Jun-2024
12:30
RUCHA
PATEL



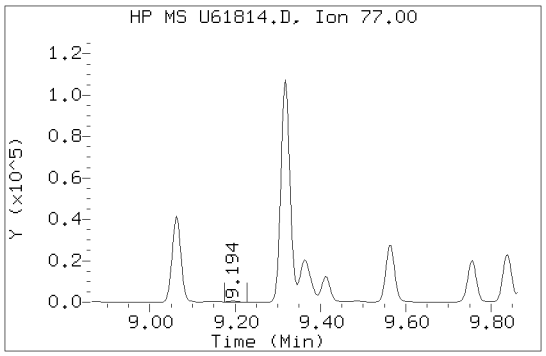
BEFORE

MASS
77
AREA
624
HEIGHT
452
26-Jun-2024
12:30
RUCHA
PATEL



AFTER

MASS
77
AREA
624
HEIGHT
452
26-Jun-2024
12:30
RUCHA
PATEL

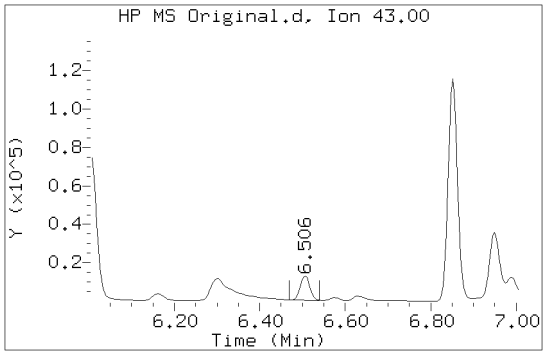


2-Nitropropane (79-46-9)

Reason Code:

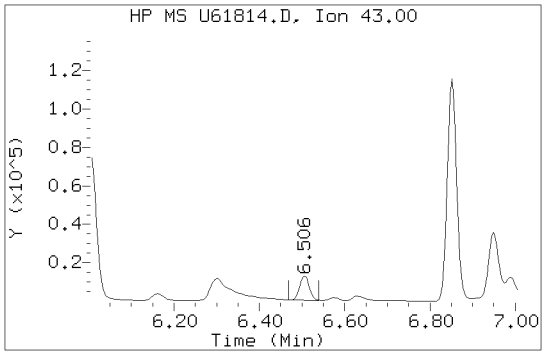
BEFORE

MASS
43
AREA
20625
HEIGHT
12777
26-Jun-2024
12:30
RUCHA
PATEL



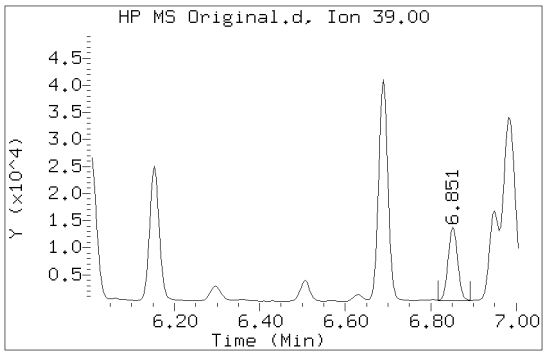
AFTER

MASS
43
AREA
20625
HEIGHT
12777
26-Jun-2024
12:30
RUCHA
PATEL



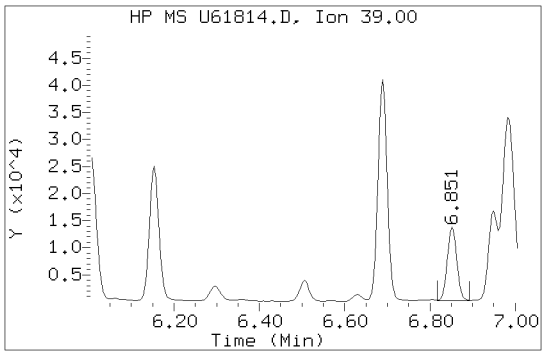
BEFORE

MASS
39
AREA
20887
HEIGHT
13586
26-Jun-2024
12:30
RUCHA
PATEL



AFTER

MASS
39
AREA
20887
HEIGHT
13586
26-Jun-2024
12:30
RUCHA
PATEL



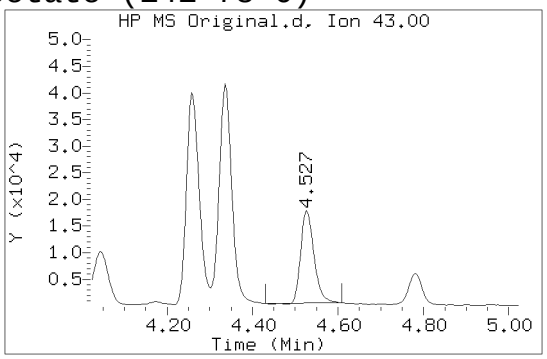
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61814.D
Inj Date : 18-JUN-2024 15:51
InstruID : VOA9.i
LabSampID : VSTD050

Ethyl Acetate (141-78-6)

Reason Code:

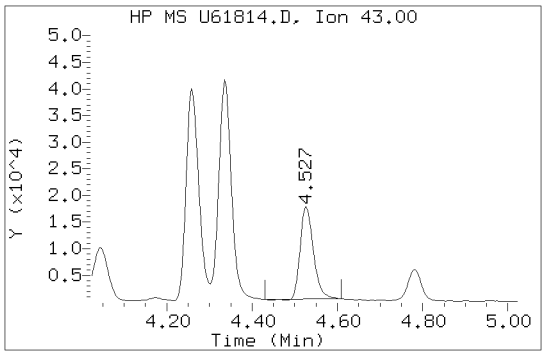
BEFORE

MASS
43
AREA
37945
HEIGHT
17411
26-Jun-2024
12:30
RUCHA
PATEL



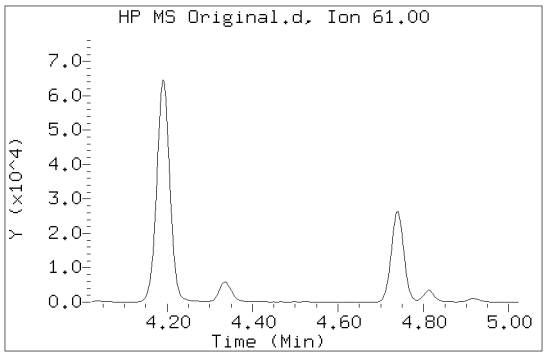
AFTER

MASS
43
AREA
37945
HEIGHT
17411
26-Jun-2024
12:30
RUCHA
PATEL



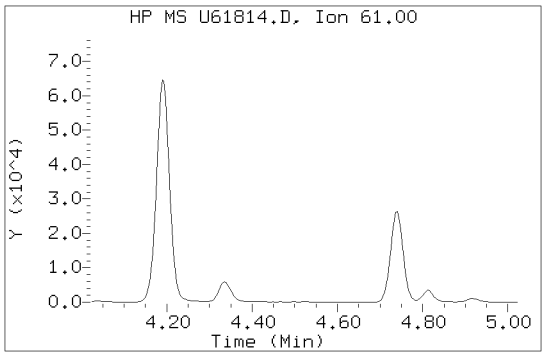
BEFORE

MASS
61
AREA
0
HEIGHT
0
26-Jun-2024
12:30
RUCHA
PATEL



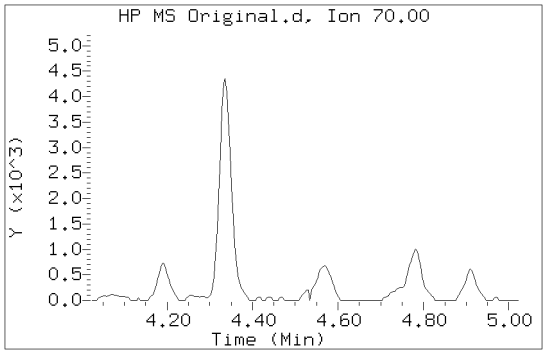
AFTER

MASS
61
AREA
0
HEIGHT
0
26-Jun-2024
12:30
RUCHA
PATEL



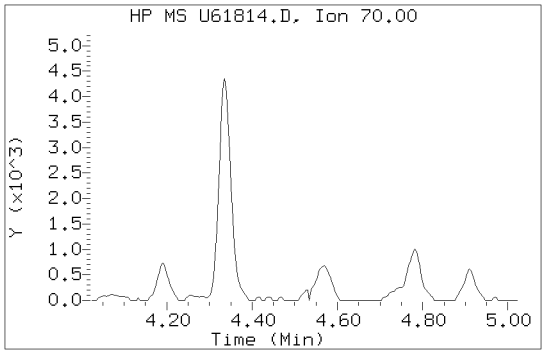
BEFORE

MASS
70
AREA
0
HEIGHT
0
26-Jun-2024
12:30
RUCHA
PATEL



AFTER

MASS
70
AREA
0
HEIGHT
0
26-Jun-2024
12:30
RUCHA
PATEL

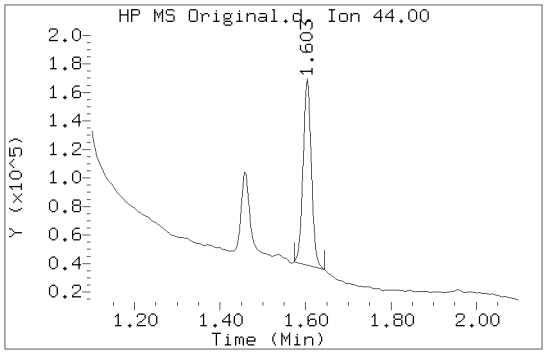


Ethylene oxide (75-21-8)

Reason Code:

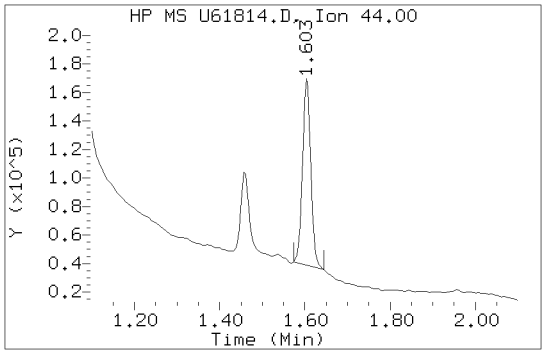
BEFORE

MASS
44
AREA
180190
HEIGHT
130609
26-Jun-2024
12:30
RUCHA
PATEL



AFTER

MASS
44
AREA
180190
HEIGHT
130609
26-Jun-2024
12:30
RUCHA
PATEL



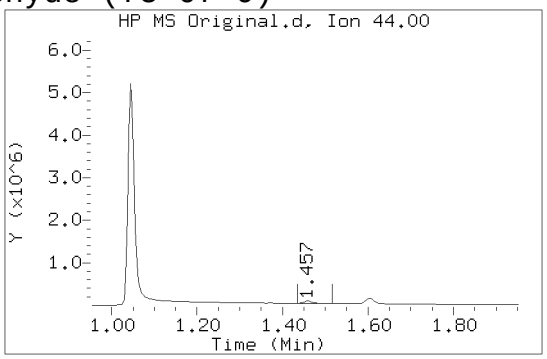
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61814.D
Inj Date : 18-JUN-2024 15:51
InstruID : VOA9.i
LabSampID : VSTD050

Acetaldehyde (75-07-0)

Reason Code:

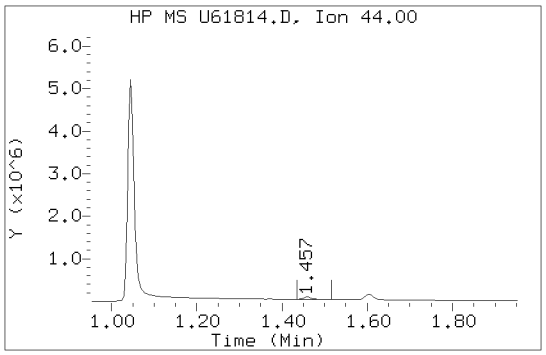
BEFORE

MASS
44
AREA
75747
HEIGHT
55760
26-Jun-2024
12:30
RUCHA
PATEL



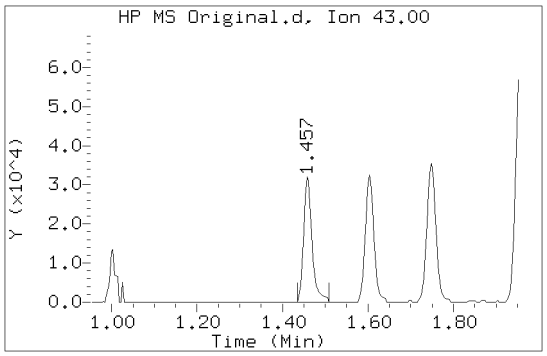
AFTER

MASS
44
AREA
75747
HEIGHT
55760
26-Jun-2024
12:30
RUCHA
PATEL



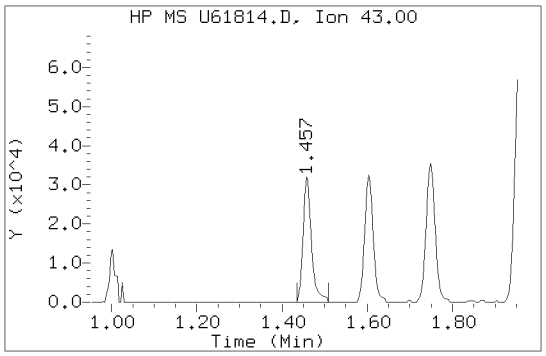
BEFORE

MASS
43
AREA
45463
HEIGHT
32008
26-Jun-2024
12:30
RUCHA
PATEL



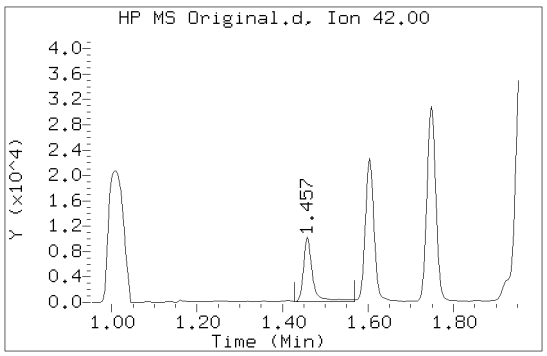
AFTER

MASS
43
AREA
45463
HEIGHT
32008
26-Jun-2024
12:30
RUCHA
PATEL



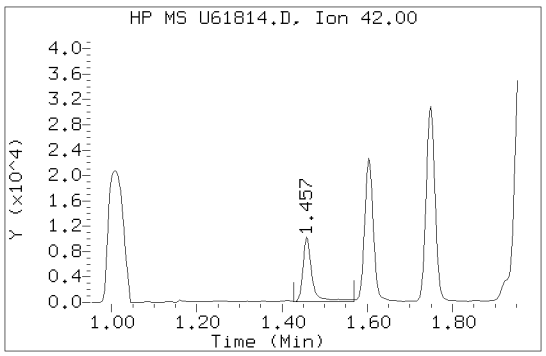
BEFORE

MASS
42
AREA
15274
HEIGHT
10118
26-Jun-2024
12:30
RUCHA
PATEL



AFTER

MASS
42
AREA
15274
HEIGHT
10118
26-Jun-2024
12:30
RUCHA
PATEL

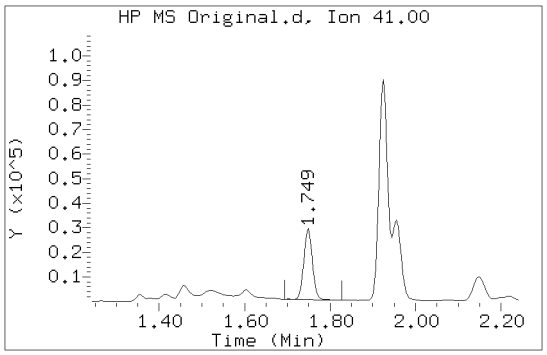


Isobutylene (115-11-7)

Reason Code:

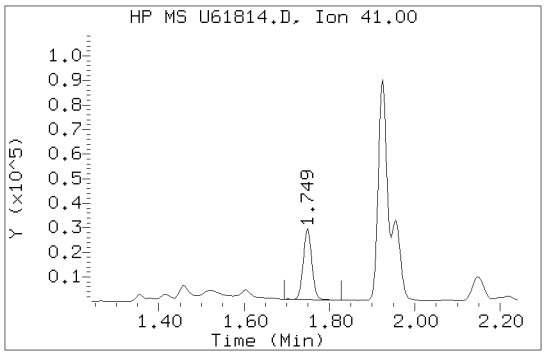
BEFORE

MASS
41
AREA
41629
HEIGHT
29008
26-Jun-2024
12:30
RUCHA
PATEL



AFTER

MASS
41
AREA
41629
HEIGHT
29008
26-Jun-2024
12:30
RUCHA
PATEL



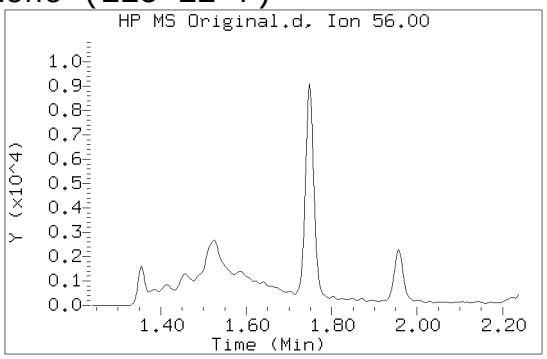
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61814.D
Inj Date : 18-JUN-2024 15:51
InstruID : VOA9.i
LabSampID : VSTD050

Isobutylene (115-11-7)

Reason Code:

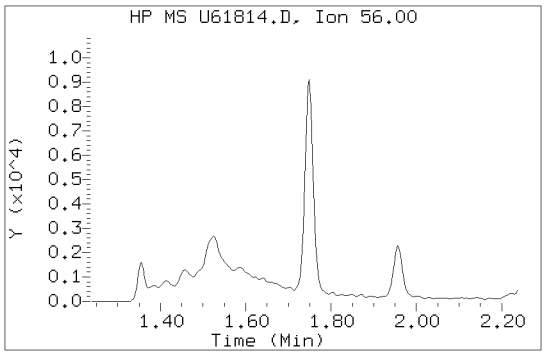
BEFORE

MASS
56
AREA
0
HEIGHT
0
26-Jun-2024
12:30
RUCHA
PATEL



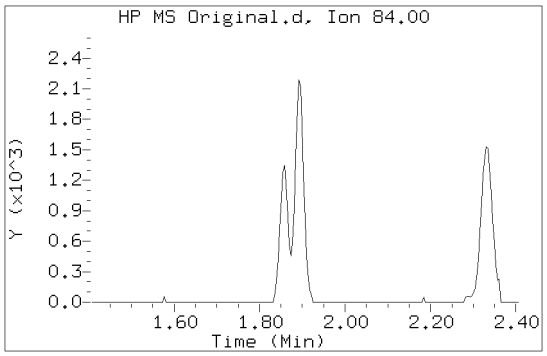
AFTER

MASS
56
AREA
0
HEIGHT
0
26-Jun-2024
12:30
RUCHA
PATEL



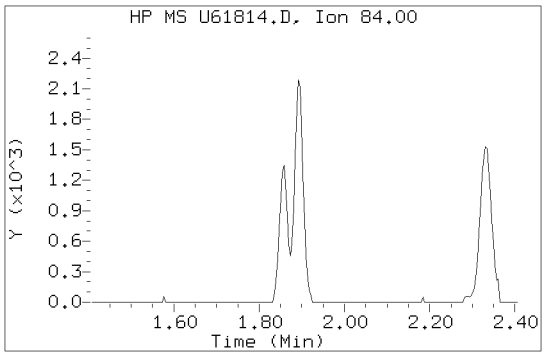
BEFORE

MASS
84
AREA
0
HEIGHT
0
26-Jun-2024
12:30
RUCHA
PATEL



AFTER

MASS
84
AREA
0
HEIGHT
0
26-Jun-2024
12:30
RUCHA
PATEL

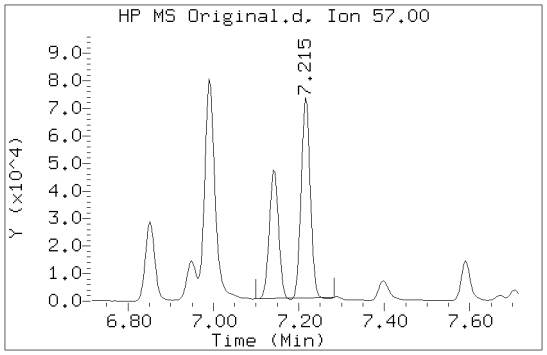


sec-Butyl Ether (6863-58-7)

Reason Code:

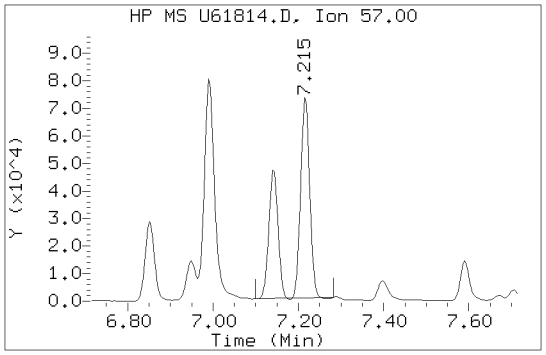
BEFORE

MASS
57
AREA
178306
HEIGHT
72613
26-Jun-2024
12:30
RUCHA
PATEL



AFTER

MASS
57
AREA
178306
HEIGHT
72613
26-Jun-2024
12:30
RUCHA
PATEL

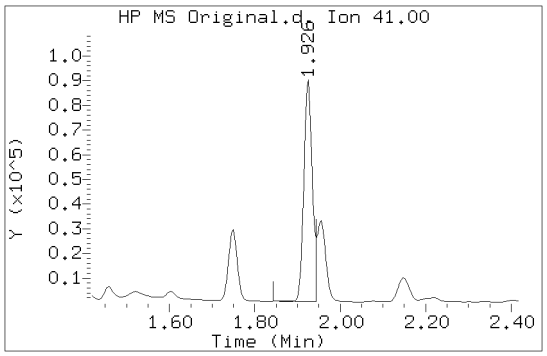


2-Chloropropene (557-98-2)

Reason Code:

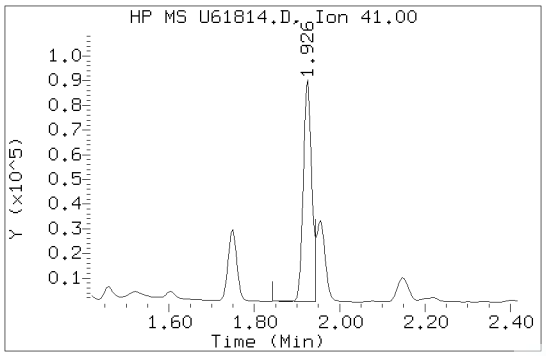
BEFORE

MASS
41
AREA
129442
HEIGHT
89755
26-Jun-2024
12:30
RUCHA
PATEL



AFTER

MASS
41
AREA
129442
HEIGHT
89755
26-Jun-2024
12:30
RUCHA
PATEL



right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24060434

Client

Bhate Environmental Associates, Inc.

Project

LHAAP Site 18/24

07/15/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Data File: \\nahstws005\Target\chem\voa9.i\U240618.b\U61813.D Page 1
Report Date: 19-Jun-2024 09:44

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa9.i\U240618.b\U61813.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 18-JUN-2024 15:30
Operator : TS Inst ID: VOA9.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240618.b\bfb.m
Meth Date : 27-Jan-2023 08:08 apoluri Quant Type: ISTD
Cal Date : 30-MAR-2018 18:09 Cal File: U033003.d
Als bottle: 13 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7066

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/l)		
RT	EXP RT	REL RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
9.194	9.180	(0.000)	95	71296			0.00- 100.00	100.00
9.194	9.180	(0.000)	50	13275			15.00- 40.00	18.62
9.194	9.180	(0.000)	75	34720			30.00- 60.00	48.70
9.194	9.180	(0.000)	96	4732			5.00- 9.00	6.64
9.194	9.180	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.194	9.180	(0.000)	174	59872			50.00- 0.00	83.98
9.194	9.180	(0.000)	175	5253			5.00- 9.00	8.77
9.194	9.180	(0.000)	176	57328			95.00- 101.00	95.75
9.194	9.180	(0.000)	177	4289			5.00- 9.00	7.48

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.62
75	30.00 - 60.00% of mass 95	48.70
96	5.00 - 9.00% of mass 95	6.64
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	83.98
175	5.00 - 9.00% of mass 174	7.37 (8.77)
176	95.00 - 101.00% of mass 174	80.41 (95.75)
177	5.00 - 9.00% of mass 176	6.02 (7.48)

Data File: U61813.D
Spectrum: Scan 2293 (9.19)
Location of Maximum: 95.05
Number of points: 92

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.10	265	63.00	2518	92.00	1838	140.90	613
36.00	2233	63.90	310	93.00	2852	142.10	110
37.00	3664	65.00	265	94.10	8394	142.90	740
38.00	3681	67.10	287	95.00	71296	144.90	100
39.00	1352	68.00	7267	96.00	4732	145.60	83
39.90	214	69.00	6999	97.00	168	147.90	178
40.90	108	69.90	643	103.90	303	149.70	92
42.00	75	71.90	449	104.70	81	152.00	64
42.90	115	73.00	3334	105.80	296	152.90	58
44.00	657	74.00	11547	106.90	71	153.90	67
45.00	626	75.00	34720	111.00	68	154.80	203
47.00	1178	76.00	3321	113.00	59	156.80	175
48.00	439	76.90	382	114.80	103	158.90	73
49.00	2909	77.90	308	115.80	276	160.80	89
50.00	13275	78.90	1801	116.90	435	171.90	451
51.00	4724	79.90	629	117.80	247	173.90	59872
52.10	215	80.90	1839	118.90	389	175.00	5253
54.90	243	81.90	442	127.80	243	175.90	57328
56.00	1040	83.10	90	128.90	120	176.90	4289
57.00	1920	86.00	167	129.90	244	177.80	152
58.10	127	87.00	3136	131.00	85		
60.00	719	87.90	3260	134.80	151		
61.00	3119	90.10	70	136.70	81		
62.00	3134	90.90	281	140.00	75		

Data File: \\nahstws005\Target\chem\voa9.i\U240618.b\U61813.D Page 1

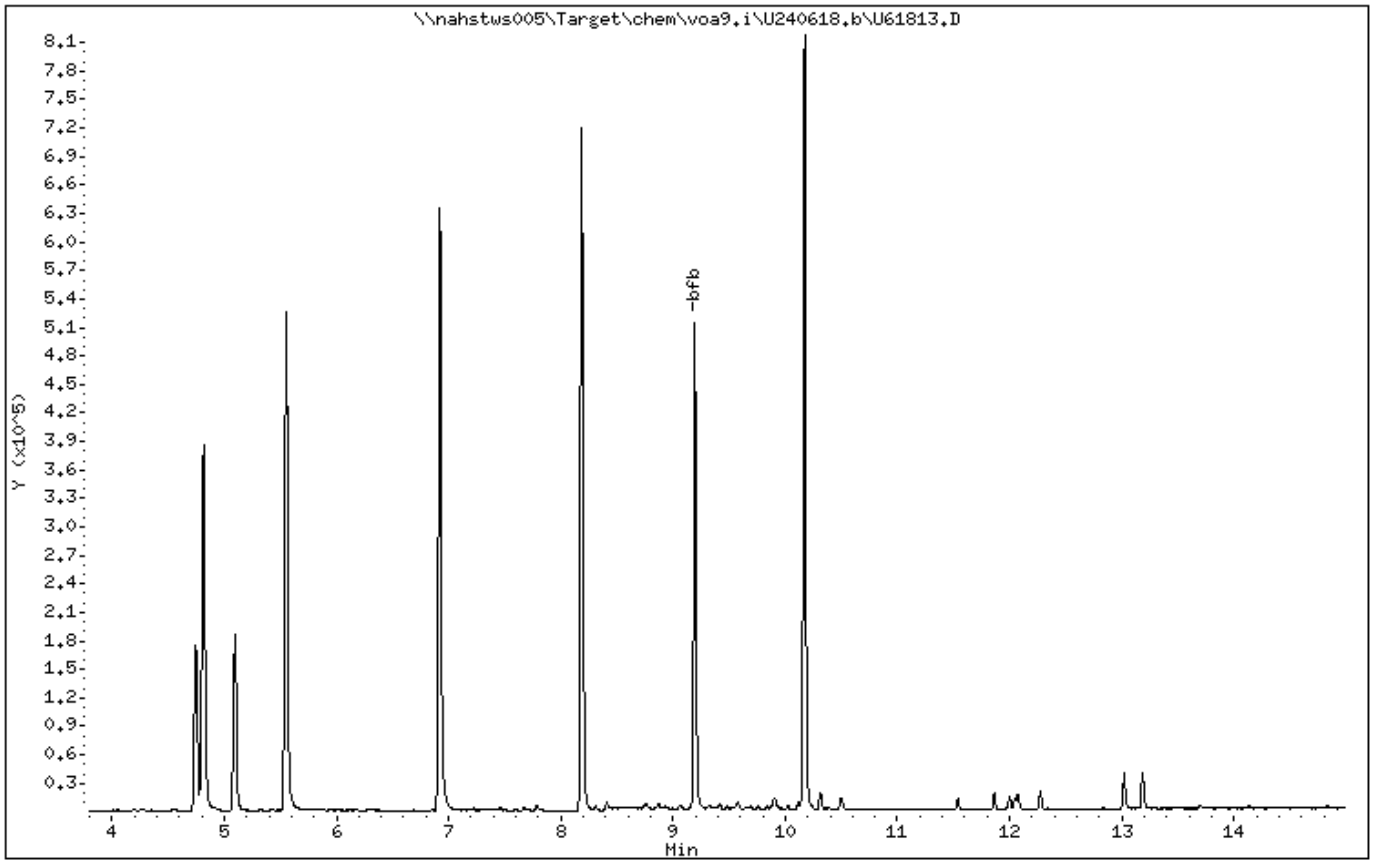
Date : 18-JUN-2024 15:30

Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: TS

Column phase: DB624 Column diameter: 0.25



Data File: \\nahstws005\Target\chem\voa9.i\U240618.b\U61813.D Page 2

Date : 18-JUN-2024 15:30

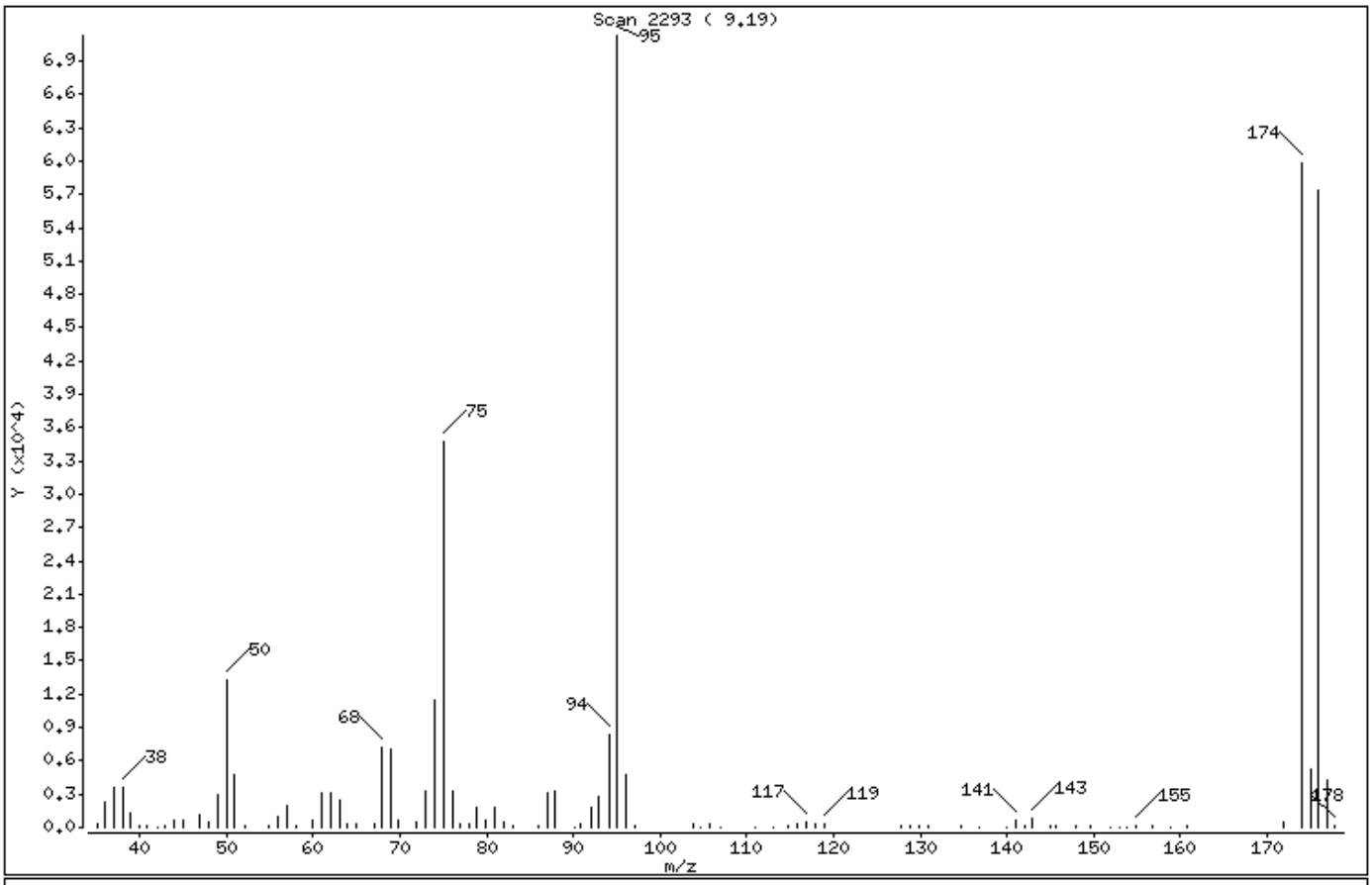
Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: TS

Column phase: DB624 Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.62
75	30.00 - 60.00% of mass 95	48.70
96	5.00 - 9.00% of mass 95	6.64
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	83.98
175	5.00 - 9.00% of mass 174	7.37 (8.77)
176	95.00 - 101.00% of mass 174	80.41 (95.75)
177	5.00 - 9.00% of mass 176	6.02 (7.48)

Data File: \\nahstws005\Target\chem\voa9.i\U240618.b\U61813.D

Date : 18-JUN-2024 15:30

Client ID: BFB Instrument: VOA9.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: TS

Column phase: DB624 Column diameter: 0.25

Data File: U61813.D
Spectrum: Scan 2293 (9.19)
Location of Maximum: 95.05
Number of points: 92

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.10	265	63.00	2518	92.00	1838	140.90	613
36.00	2233	63.90	310	93.00	2852	142.10	110
37.00	3664	65.00	265	94.10	8394	142.90	740
38.00	3681	67.10	287	95.00	71296	144.90	100
39.00	1352	68.00	7267	96.00	4732	145.60	83
39.90	214	69.00	6999	97.00	168	147.90	178
40.90	108	69.90	643	103.90	303	149.70	92
42.00	75	71.90	449	104.70	81	152.00	64
42.90	115	73.00	3334	105.80	296	152.90	58
44.00	657	74.00	11547	106.90	71	153.90	67
45.00	626	75.00	34720	111.00	68	154.80	203
47.00	1178	76.00	3321	113.00	59	156.80	175
48.00	439	76.90	382	114.80	103	158.90	73
49.00	2909	77.90	308	115.80	276	160.80	89
50.00	13275	78.90	1801	116.90	435	171.90	451
51.00	4724	79.90	629	117.80	247	173.90	59872
52.10	215	80.90	1839	118.90	389	175.00	5253
54.90	243	81.90	442	127.80	243	175.90	57328
56.00	1040	83.10	90	128.90	120	176.90	4289
57.00	1920	86.00	167	129.90	244	177.80	152
58.10	127	87.00	3136	131.00	85		
60.00	719	87.90	3260	134.80	151		
61.00	3119	90.10	70	136.70	81		
62.00	3134	90.90	281	140.00	75		

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61815.D
Lab Smp Id: VLCSW-240618 Client Smp ID: VLCSW-240618
Inj Date : 18-JUN-2024 16:34
Operator : TS Inst ID: VOA9.i
Smp Info : VLCSW-240618;VLCSW-240618;3;;LCS
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240618.b\8260C.m
Meth Date : 15-Jul-2024 11:42 VOA9.i Quant Type: ISTD
Cal Date : 18-JUN-2024 14:47 Cal File: U61811.D
Als bottle: 15 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1	Pentafluorobenzene	168	4.815	4.819	(1.000)	279604	50.0000	
2	Dichlorodifluoromethane	85	1.168	1.168	(0.243)	25941	17.8729	17.87
3	Chloromethane	50	1.303	1.303	(0.271)	78931	16.8913	16.89
4	Propionitrile	54	4.339	4.339	(0.901)	55297	223.065	223.06(a)
5	Vinyl Chloride	62	1.381	1.382	(0.287)	41113	18.9827	18.98
6	Bromomethane	94	1.614	1.618	(0.335)	20032	26.4546	26.45
7	Chloroethane	64	1.700	1.704	(0.353)	28305	18.7561	18.75
8	Trichlorofluoromethane	101	1.899	1.899	(0.394)	48558	18.7386	18.73
9	Acrolein	56	2.266	2.270	(0.471)	3724	38.3836	38.38
10	Acetone	43	2.412	2.412	(0.501)	31283	43.0913	43.09
11	1,1-Dichloroethene	96	2.334	2.334	(0.485)	30309	19.3758	19.37
12	Isobutyl Alcohol	43	5.284	5.284	(1.097)	103038	407.033	407.03(a)
13	Acetonitrile	39	2.675	2.675	(0.555)	43176	203.158	203.15(a)
14	Allyl Chloride	41	2.675	2.675	(0.555)	103148	21.0005	21.00(a)
15	Iodomethane	142	2.469	2.469	(0.513)	23917	110.557	110.55
16	Acrylonitrile	53	3.068	3.068	(0.637)	28419	42.7966	42.79
17	Methylene Chloride	84	2.795	2.799	(0.580)	40461	19.2417	19.24
18	Methyl tert-butyl ether	73	3.083	3.083	(0.640)	99634	21.2730	21.27
19	Carbon Disulfide	76	2.525	2.521	(0.524)	172820	38.2139	38.21
20	trans-1,2-Dichloroethene	96	3.061	3.061	(0.636)	33705	19.2168	19.21

21 Vinyl Acetate	43	4.339	4.343 (0.901)	38335	41.4703	41.47
22 1,1-Dichloroethane	63	3.514	3.515 (0.730)	62526	19.0532	19.05

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61815.D Page 2
Report Date: 15-Jul-2024 11:51

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	23 Chloroprene	53	3.608	3.608	(0.749)	51014	18.0528	18.05
	24 2-Butanone	43	4.264	4.264	(0.886)	39262	42.8821	42.88
	25 Methacrylonitrile	41	4.497	4.497	(0.934)	23944	21.5717	21.57(a)
	26 2,2-Dichloropropane	77	4.182	4.182	(0.868)	43920	17.8184	17.81
	27 cis-1,2-Dichloroethene	96	4.197	4.197	(0.872)	40336	19.8588	19.85
	28 Chloroform	83	4.575	4.575	(0.950)	64137	19.0815	19.08
	29 Bromochloromethane	128	4.470	4.470	(0.928)	20080	19.3953	19.39
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	101027	56.8019	56.80
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.985)	49865	18.7206	18.72
	32 1,1-Dichloropropene	75	4.924	4.924	(0.887)	47394	17.9083	17.90
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	51665	19.7459	19.74
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	39275	17.6690	17.66
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	119421	56.2365	56.23
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	408176	50.0000	
	37 Benzene	78	5.138	5.138	(0.925)	145885	18.9975	18.99
	38 Trichloroethene	130	5.790	5.786	(1.043)	37999	19.3154	19.31
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	43384	18.8502	18.85
	40 Methyl Methacrylate	41	5.824	5.824	(1.209)	14343	22.2483	22.24(a)
	41 2-Chloroethylvinyl ether	63	6.577	6.577	(1.184)	2280	49.5327	49.53(M)
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	39423	19.4411	19.44
	43 2-Nitropropane	43	6.506	6.506	(1.351)	9556	21.0151	21.01
	44 Dibromomethane	93	6.120	6.120	(1.102)	23942	19.7717	19.77
	45 4-Methyl-2-Pentanone	43	6.855	6.855	(0.837)	77426	41.2052	41.20
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	52123	18.3495	18.34
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	375792	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	387306	59.5884	59.58(M)
	49 Ethyl Methacrylate	69	7.289	7.289	(1.312)	51175	21.3370	21.33(a)
	50 Toluene	91	6.982	6.982	(0.853)	156620	19.4696	19.46
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	43209	18.6724	18.67
	52 2-Hexanone	43	7.214	7.218	(0.881)	78732	45.4153	45.41
	53 1,1,2-Trichloroethane	83	7.353	7.357	(0.898)	30310	20.5003	20.50
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	63207	19.6156	19.61
	55 Dibromochloromethane	129	7.690	7.691	(0.940)	32748	18.4091	18.40
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	30668	19.0695	19.06
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	34632	19.9279	19.92
	58 1-Chlorohexane	55	8.197	8.197	(1.476)	30361	19.4161	19.41
	59 Chlorobenzene	112	8.212	8.212	(1.003)	103709	19.7110	19.71
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	33854	18.5045	18.50
	61 Ethylbenzene	106	8.309	8.309	(1.015)	52492	20.2830	20.28
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	131785	42.6326	42.63
	63 o-Xylene	106	8.748	8.748	(1.069)	66197	21.8089	21.80
	64 Styrene	104	8.763	8.763	(1.071)	109240	21.0486	21.04
	66 Bromoform	173	8.920	8.920	(1.090)	20561	18.4505	18.45
	67 Isopropylbenzene	105	9.062	9.063	(1.107)	164425	20.6331	20.63
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	50424	20.6503	20.65
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	148784	59.8079	59.80(M)
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	210349	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	47838	20.5668	20.56
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	10298	20.7106	20.71(a)
	73 n-Propylbenzene	91	9.415	9.411	(0.926)	185371	20.2991	20.29
	74 Bromobenzene	156	9.317	9.317	(0.916)	47544	20.5525	20.55
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	129008	21.8771	21.87

76	2-Chlorotoluene	91	9.482	9.482 (0.932)	120202	20.5392	20.53
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	136695	20.5558	20.55

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61815.D Page 3
Report Date: 15-Jul-2024 11:51

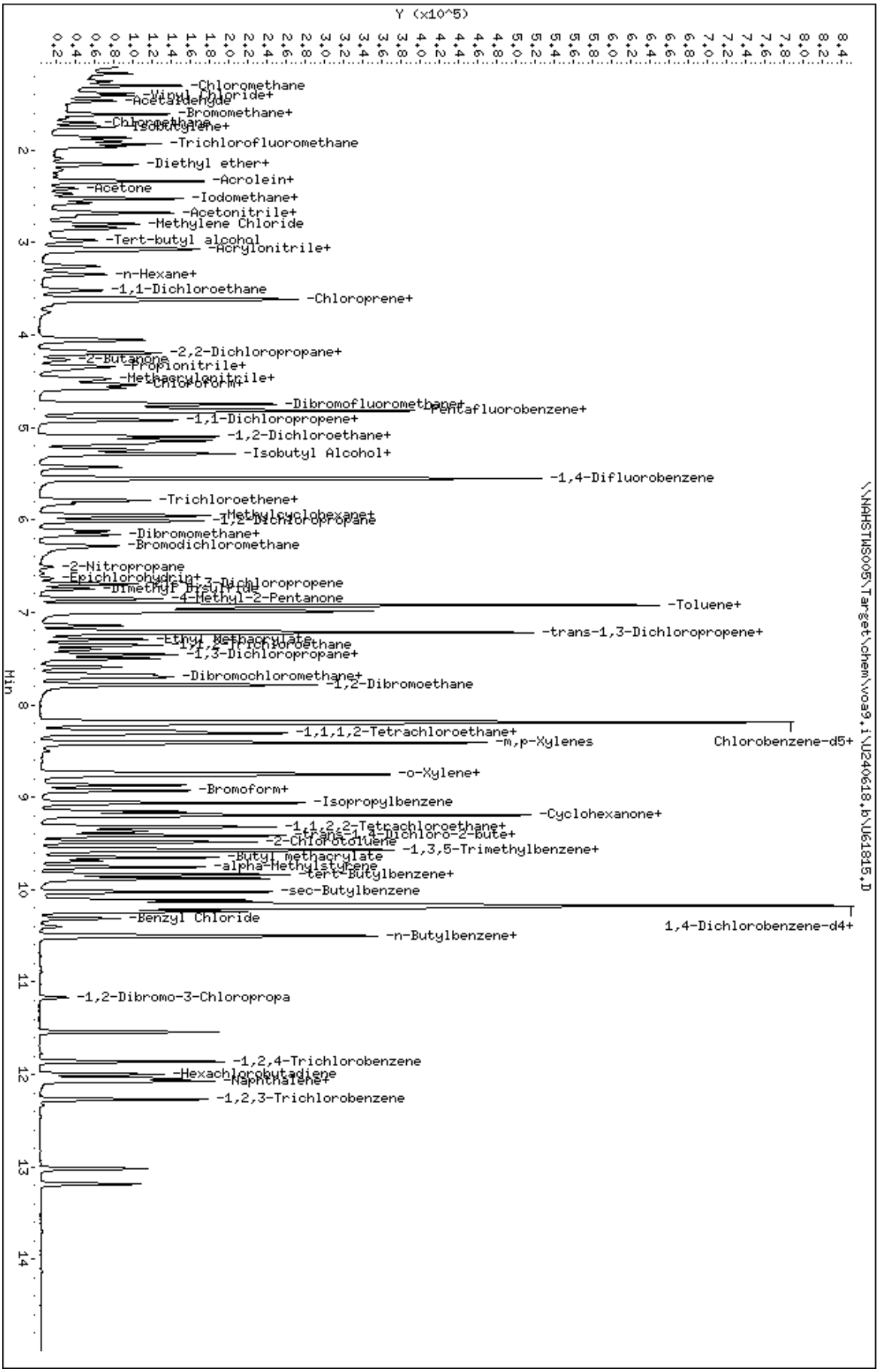
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
78	tert-Butylbenzene	119	9.838	9.839	(0.967)	116517	20.5624	20.56
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	126038	21.6512	21.65
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	155455	20.7560	20.75
82	p-Isopropyltoluene	119	10.146	10.150	(0.997)	134403	21.3124	21.31
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	85452	20.7650	20.76
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	88606	20.6434	20.64
86	Benzyl Chloride	91	10.311	10.315	(1.260)	55830	21.4188	21.41
87	n-Butylbenzene	91	10.494	10.495	(1.032)	120006	20.7705	20.77
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	83949	20.7294	20.72
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	6356	21.7357	21.73
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	56253	21.2697	21.26
91	Hexachlorobutadiene	225	12.001	12.002	(1.180)	24411	21.0220	21.02
92	Naphthalene	128	12.069	12.069	(1.186)	123992	21.8873	21.88
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	52585	21.9401	21.94
146	Methyl acetate	43	2.716	2.716	(0.564)	29159	19.4558	19.45
138	Freon TF	101	2.337	2.337	(0.485)	28095	18.3752	18.37
141	Cyclohexane	56	4.785	4.785	(0.994)	53120	19.6555	19.65
142	Tetrahydrofuran	42	4.542	4.542	(0.943)	14375	43.3681	43.36
147	Methylcyclohexane	55	5.947	5.947	(1.071)	89517	19.9551	19.95
135	1,4-Dioxane	88	6.169	6.169	(1.281)	10453	448.233	448.23
132	n-Butanol	56	5.824	5.824	(1.209)	21012	455.178	455.17(a)
136	n-Hexane	57	3.342	3.342	(0.694)	33215	18.0667	18.06
139	Diethyl ether	59	2.150	2.150	(0.447)	28993	21.1253	21.12
148	Tert-butyl alcohol	59	2.975	2.975	(0.618)	67169	448.962	448.96
149	Isopropyl alcohol	45	2.570	2.570	(0.534)	51526	442.345	442.34
156	Diisopropyl ether	45	3.623	3.623	(0.752)	123323	20.4032	20.40
162	Butyl acrylate	55	8.733	8.733	(1.067)	68045	22.4040	22.40
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	174071	22.5924	22.59
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	113439	22.1065	22.10
167	Ethanol	45	2.090	2.090	(0.434)	10120	416.313	416.31
172	tert-Butyl formate	59	5.243	5.243	(1.089)	67107	47.6329	47.63
151	4-Methyl-2-pentanol	45	7.214	7.218	(1.299)	298478	441.883	441.88
140	1,3-Butadiene	54	1.408	1.408	(0.292)	17972	18.9810	18.98
182	Epichlorohydrin	57	6.630	6.630	(1.194)	5358	89.0023	89.00
M 94	1,2-Dichloroethylene (total)	96				74041	39.1217	39.12
M 95	Xylenes (total)	106				197982	63.5779	63.57
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	49012	22.0838	22.08
130	Ethyl Acetate	43	4.534	4.534	(0.942)	19522	21.8174	21.81(M)
131	Methyl Acrylate	55	4.369	4.369	(0.907)	44077	21.7157	21.71
189	n-Butyl acetate	43	7.705	7.706	(0.941)	57079	20.7549	20.75
134	Cyclohexanone	55	9.152	9.156	(0.900)	59057	447.062	447.06(a)
185	Isoprene	39	2.157	2.157	(0.448)	7968	18.7917	18.79
188	Isopropyl acetate	43	5.284	5.284	(0.951)	104326	20.8433	20.84
150	Allyl alcohol	57	3.342	3.342	(0.694)	33215	361.335	361.33
194	Acetaldehyde	44	1.464	1.468	(0.304)	102453	253.989	253.98
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	23035	19.9780	19.97
202	Isobutylene	41	1.749	1.741	(0.363)	17657	21.6351	21.63(M)
133	Ethyl Acrylate	55	5.947	5.947	(1.235)	89517	19.7656	19.76
163	Butyl methacrylate	41	9.651	9.651	(0.949)	48103	24.8384	24.83
159	Propylene oxide	43	2.202	2.206	(0.457)	4872	40.3221	40.32
178	Ethylene oxide	44	1.606	1.595	(0.334)	65305	42.5642	42.56(M)
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	48187	24.4328	24.43

204 Tetrahydrothiophene	60	7.672	7.672 (0.937)	45712	23.5108	23.51(A)
205 sec-Butyl Ether	57	7.218	7.218 (0.882)	49917	13.2404	13.24(A)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
187 n-Amyl acetate	43	8.931	8.931	(1.091)	63664	21.4369	21.43

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\woa9,i\U240618,b\U61815,D
Date : 18-JUN-2024 16:34
Client ID: WLCSW-240618
Sample Info: WLCSW-240618;WLCSW-240618;3;;LCS
Purge Volume: 5.0
Column phase: DB624

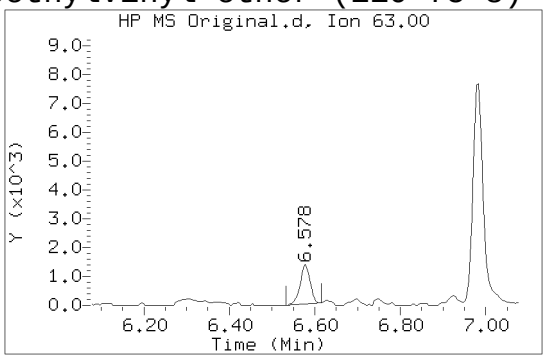
Instrument: WOA9,i
Operator: TS
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61815.D
Inj Date : 18-JUN-2024 16:34
InstruID : VOA9.i
LabSampID : VLCSW-240618

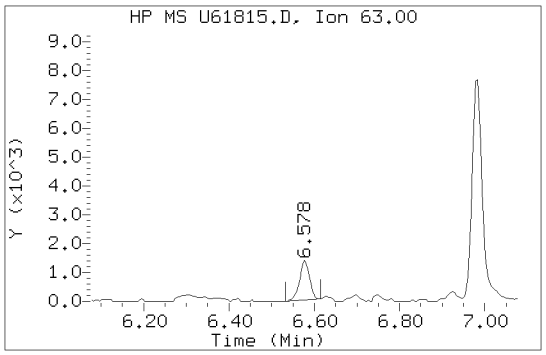
2-Chloroethylvinyl ether (110-75-8)

Reason Code:

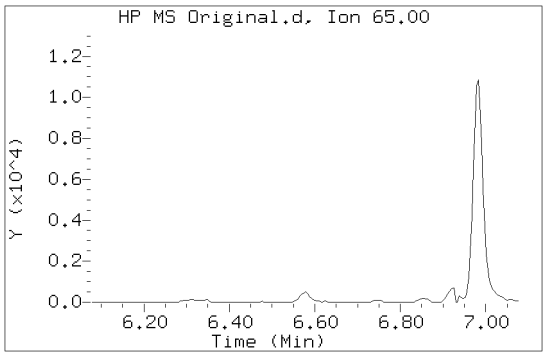
BEFORE
MASS
63
AREA
2280
HEIGHT
1372
15-Jul-2024
11:51
s
zaid



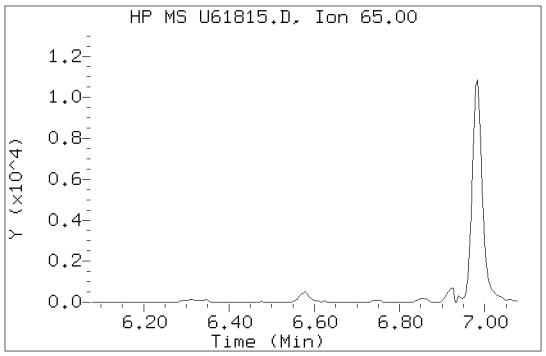
AFTER
MASS
63
AREA
2280
HEIGHT
1372
15-Jul-2024
11:51
s
zaid



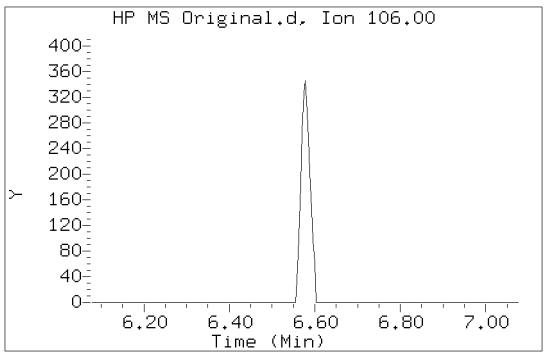
BEFORE
MASS
65
AREA
0
HEIGHT
0
15-Jul-2024
11:51
s
zaid



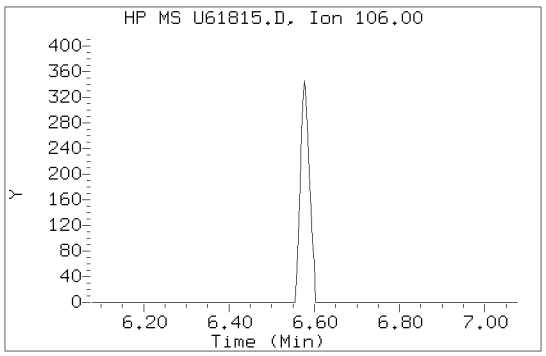
AFTER
MASS
65
AREA
0
HEIGHT
0
15-Jul-2024
11:51
s
zaid



BEFORE
MASS
106
AREA
0
HEIGHT
0
15-Jul-2024
11:51
s
zaid



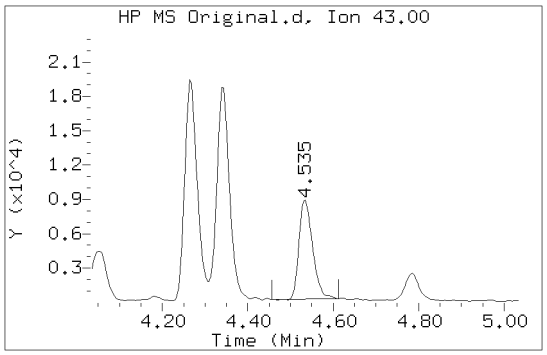
AFTER
MASS
106
AREA
0
HEIGHT
0
15-Jul-2024
11:51
s
zaid



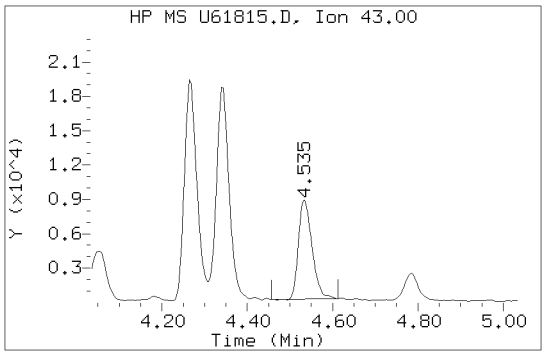
Ethyl Acetate (141-78-6)

Reason Code:

BEFORE
MASS
43
AREA
19522
HEIGHT
8636
15-Jul-2024
11:51
s
zaid



AFTER
MASS
43
AREA
19522
HEIGHT
8636
15-Jul-2024
11:51
s
zaid

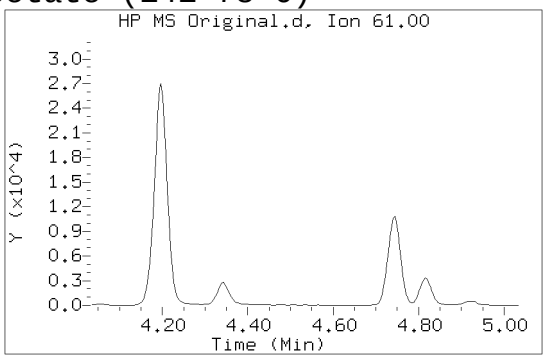


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61815.D
Inj Date : 18-JUN-2024 16:34
InstruID : VOA9.i
LabSampID : VLCSW-240618

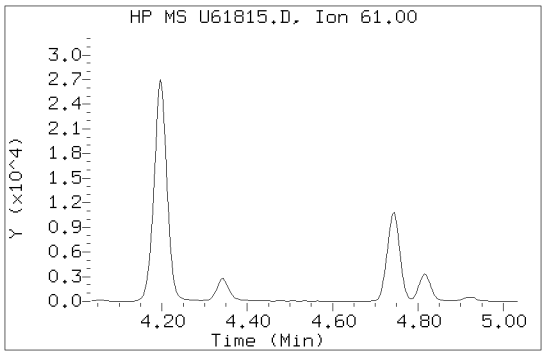
Ethyl Acetate (141-78-6)

Reason Code:

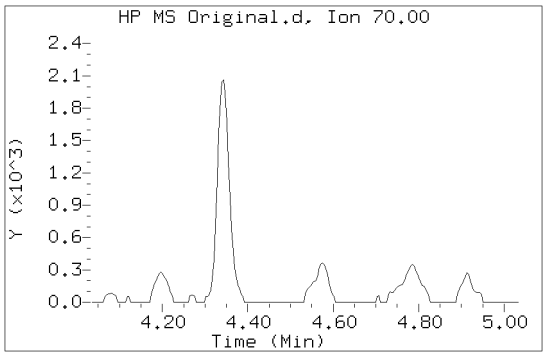
BEFORE
MASS
61
AREA
0
HEIGHT
0
15-Jul-2024
11:51
s
zaid



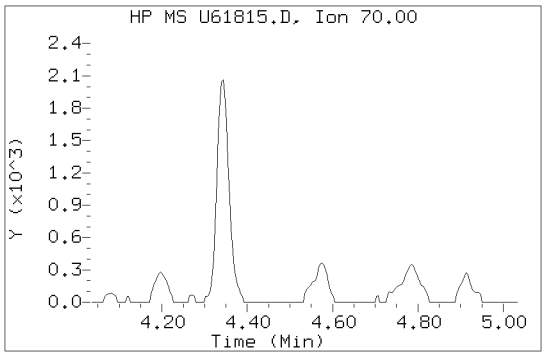
AFTER
MASS
61
AREA
0
HEIGHT
0
15-Jul-2024
11:51
s
zaid



BEFORE
MASS
70
AREA
0
HEIGHT
0
15-Jul-2024
11:51
s
zaid



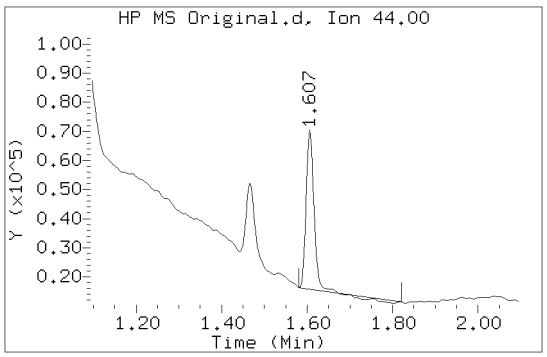
AFTER
MASS
70
AREA
0
HEIGHT
0
15-Jul-2024
11:51
s
zaid



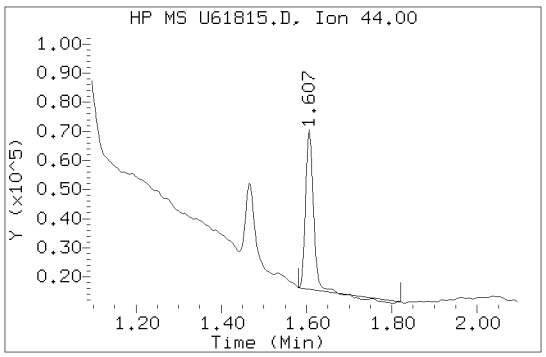
Ethylene oxide (75-21-8)

Reason Code:

BEFORE
MASS
44
AREA
65305
HEIGHT
54894
15-Jul-2024
11:51
s
zaid



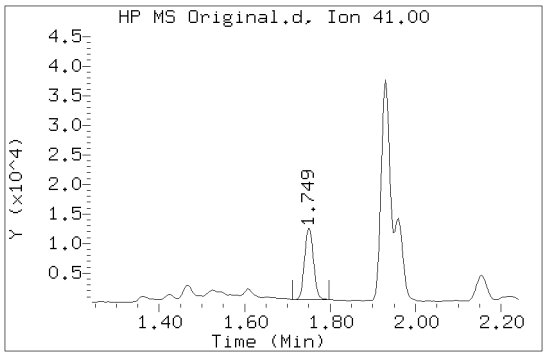
AFTER
MASS
44
AREA
65305
HEIGHT
54894
15-Jul-2024
11:51
s
zaid



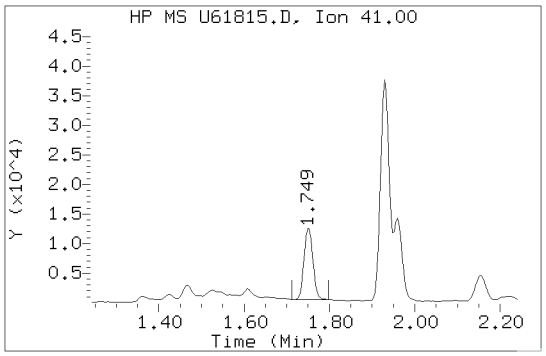
Isobutylene (115-11-7)

Reason Code:

BEFORE
MASS
41
AREA
17657
HEIGHT
12074
15-Jul-2024
11:51
s
zaid



AFTER
MASS
41
AREA
17657
HEIGHT
12074
15-Jul-2024
11:51
s
zaid



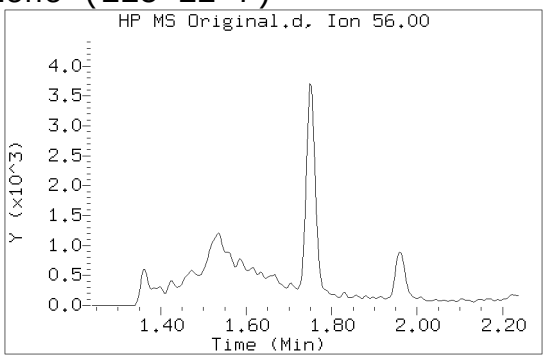
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61815.D
Inj Date : 18-JUN-2024 16:34
InstruID : VOA9.i
LabSampID : VLCSW-240618

Isobutylene (115-11-7)

Reason Code:

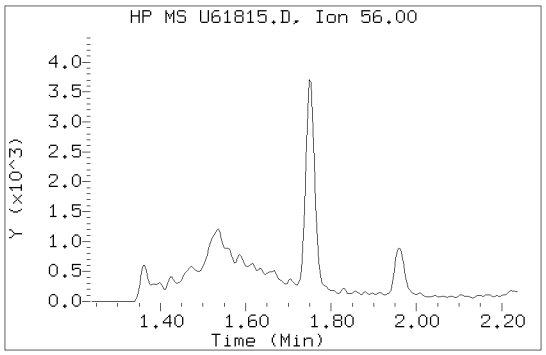
BEFORE

MASS
56
AREA
0
HEIGHT
0
15-Jul-2024
11:51
s
zaid



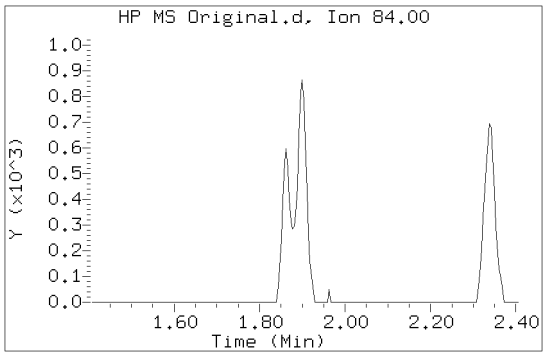
AFTER

MASS
56
AREA
0
HEIGHT
0
15-Jul-2024
11:51
s
zaid



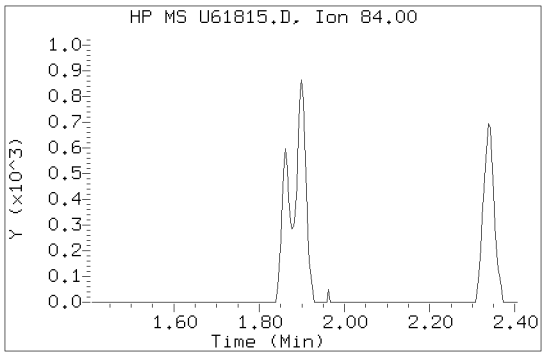
BEFORE

MASS
84
AREA
0
HEIGHT
0
15-Jul-2024
11:51
s
zaid



AFTER

MASS
84
AREA
0
HEIGHT
0
15-Jul-2024
11:51
s
zaid

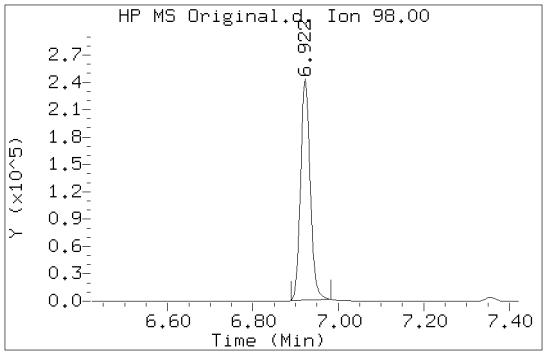


Toluene-d8 (2037-26-5)

Reason Code:

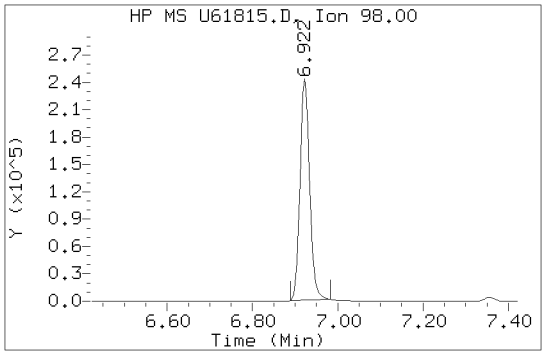
BEFORE

MASS
98
AREA
387306
HEIGHT
242582
15-Jul-2024
11:51
s
zaid



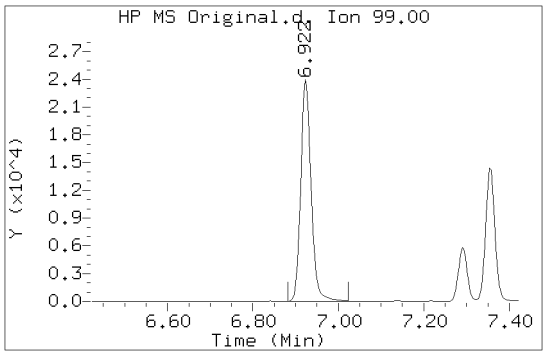
AFTER

MASS
98
AREA
387306
HEIGHT
242582
15-Jul-2024
11:51
s
zaid



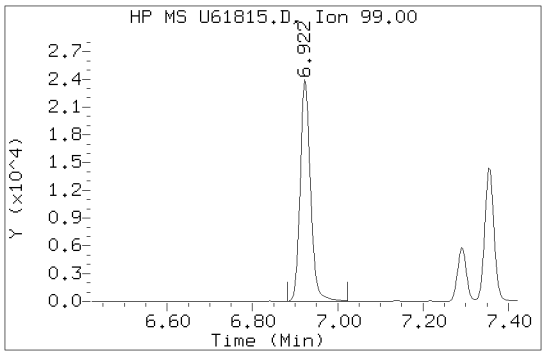
BEFORE

MASS
99
AREA
41116
HEIGHT
23960
15-Jul-2024
11:51
s
zaid



AFTER

MASS
99
AREA
41116
HEIGHT
23960
15-Jul-2024
11:51
s
zaid



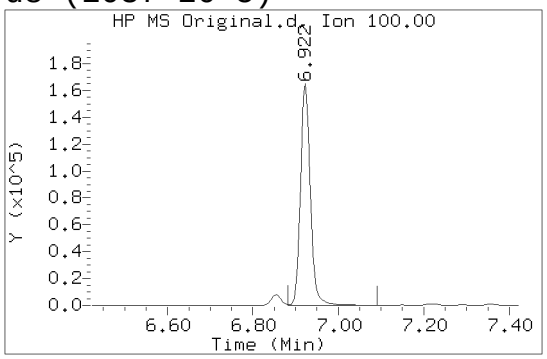
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61815.D
Inj Date : 18-JUN-2024 16:34
InstruID : VOA9.i
LabSampID : VLCSW-240618

Toluene-d8 (2037-26-5)

Reason Code:

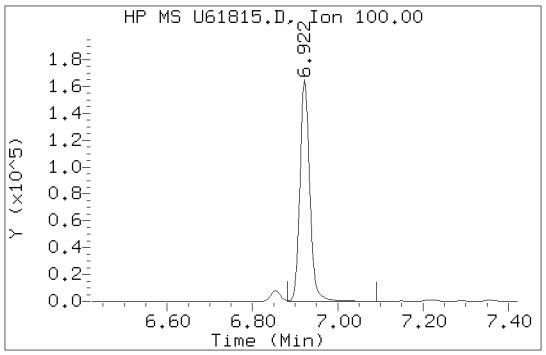
BEFORE

MASS
100
AREA
269948
HEIGHT
165084
15-Jul-2024
11:51
s
zaid



AFTER

MASS
100
AREA
269948
HEIGHT
165084
15-Jul-2024
11:51
s
zaid

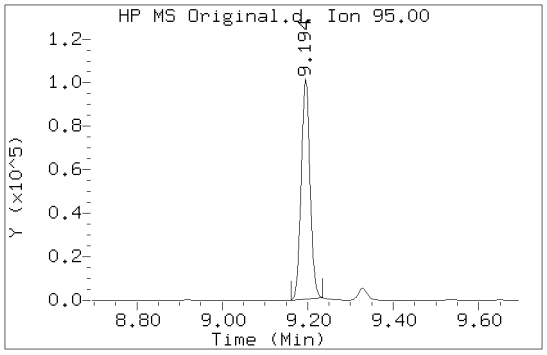


4-Bromofluorobenzene (460-00-4)

Reason Code:

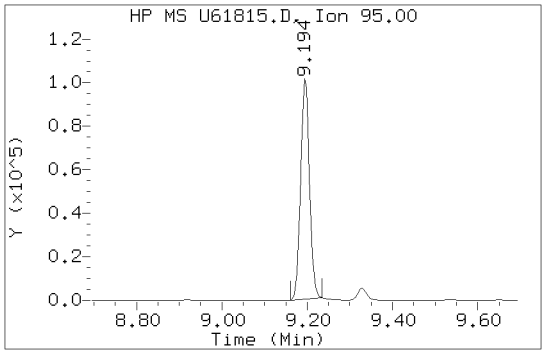
BEFORE

MASS
95
AREA
148784
HEIGHT
101326
15-Jul-2024
11:51
s
zaid



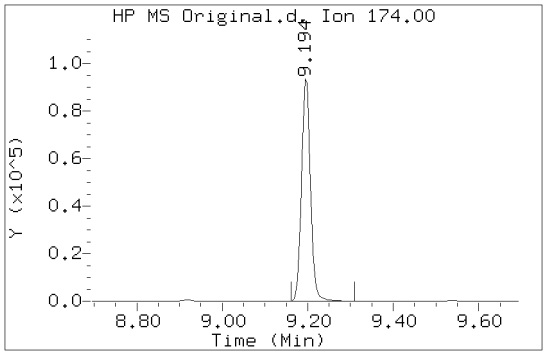
AFTER

MASS
95
AREA
148784
HEIGHT
101326
15-Jul-2024
11:51
s
zaid



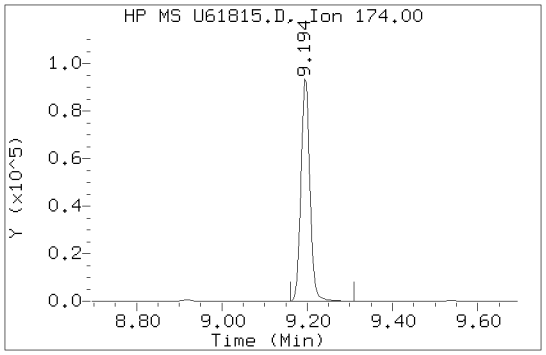
BEFORE

MASS
174
AREA
139992
HEIGHT
93504
15-Jul-2024
11:51
s
zaid



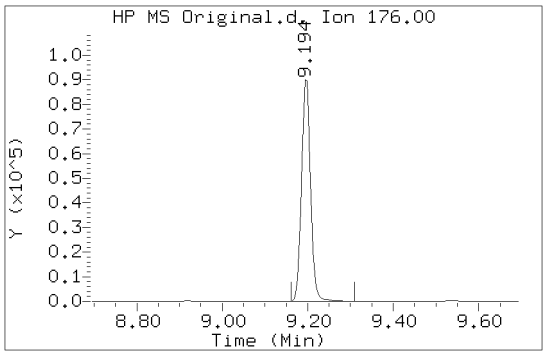
AFTER

MASS
174
AREA
139992
HEIGHT
93504
15-Jul-2024
11:51
s
zaid



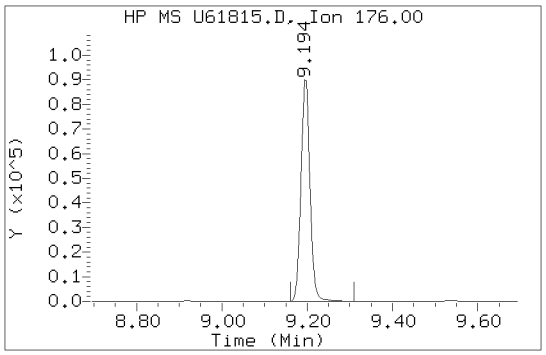
BEFORE

MASS
176
AREA
135972
HEIGHT
90048
15-Jul-2024
11:51
s
zaid



AFTER

MASS
176
AREA
135972
HEIGHT
90048
15-Jul-2024
11:51
s
zaid



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61818.D Page 1
Report Date: 15-Jul-2024 12:00

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61818.D
Lab Smp Id: VBLKW-240618 Client Smp ID: VBLKW-240618
Inj Date : 18-JUN-2024 17:38
Operator : TS Inst ID: VOA9.i
Smp Info : VBLKW-240618;VBLKW-240618;3;;BLANK
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240618.b\8260C.m
Meth Date : 15-Jul-2024 11:56 VOA9.i Quant Type: ISTD
Cal Date : 18-JUN-2024 14:47 Cal File: U61811.D
Als bottle: 17 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.819	4.819	(1.000)	274559	50.0000	
$ 30 Dibromofluoromethane	113	4.748	4.748	(0.985)	97734	55.9601	55.96
$ 35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	120581	57.8261	57.82
* 36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	401372	50.0000	
* 47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	366904	50.0000	
$ 48 Toluene-d8	98	6.922	6.922	(0.846)	378252	59.6052	59.60(M)
$ 69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	142001	58.4640	58.46(M)
* 70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	200090	50.0000	

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61818.D

Date : 18-JUN-2024 17:38

Client ID: VBLKW-240618

Instrument: VOA9.i

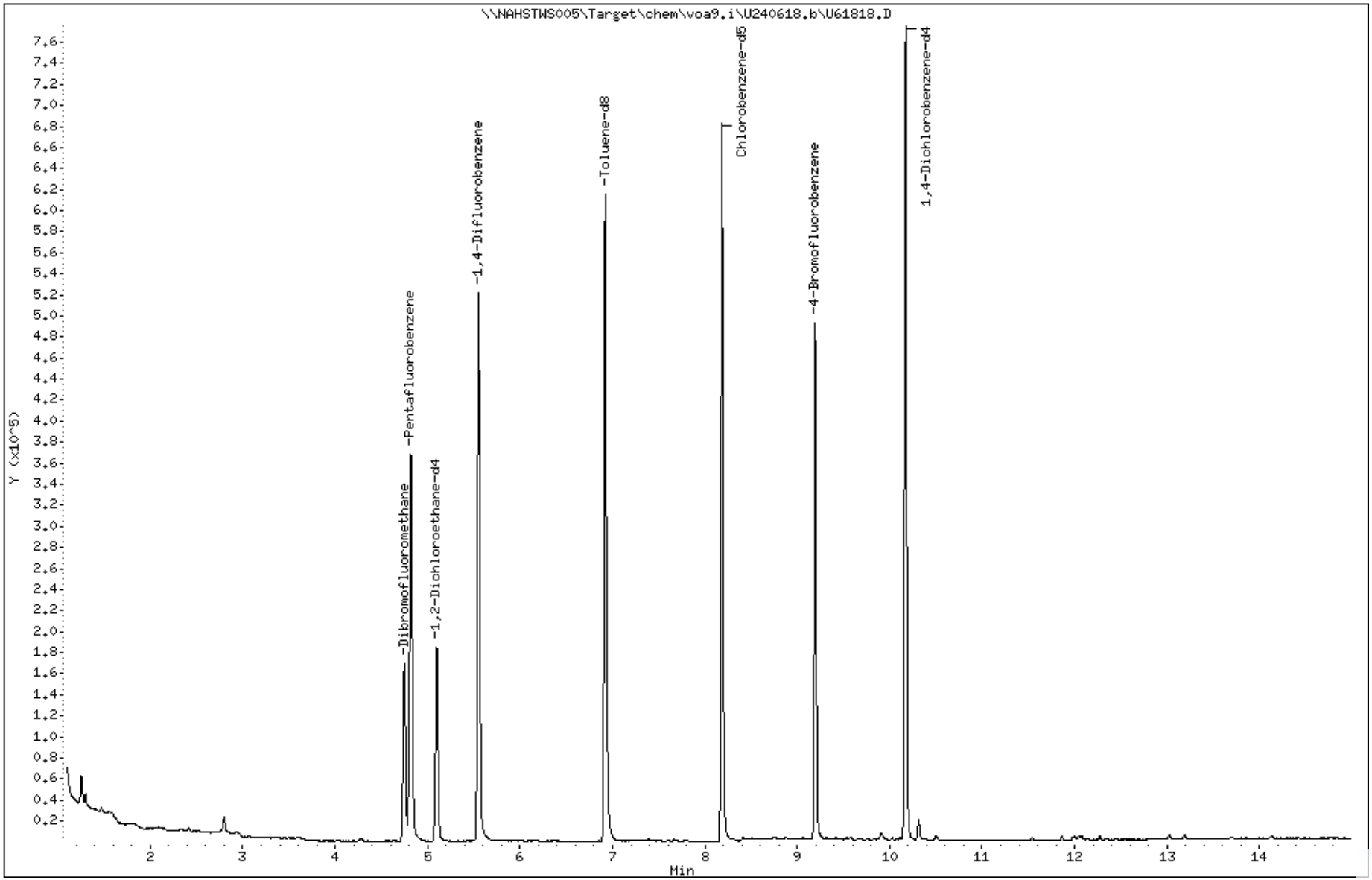
Sample Info: VBLKW-240618;VBLKW-240618;3;;BLANK

Purge Volume: 5.0

Operator: TS

Column phase: DB624

Column diameter: 0.18

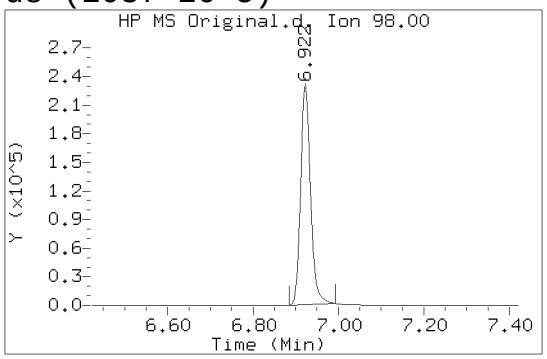


Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61818.D
Inj Date : 18-JUN-2024 17:38
InstruID : VOA9.i
LabSampID : VBLKW-240618

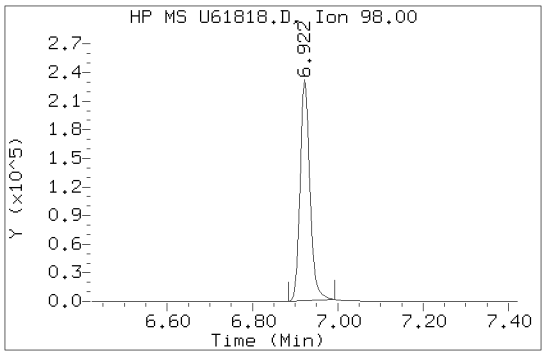
Toluene-d8 (2037-26-5)

Reason Code:

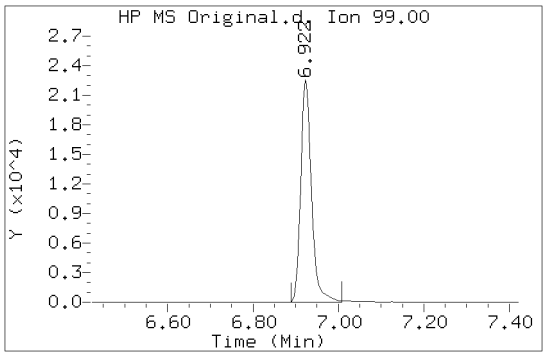
BEFORE
MASS
98
AREA
378252
HEIGHT
231837
15-Jul-2024
12:00
s
zaid



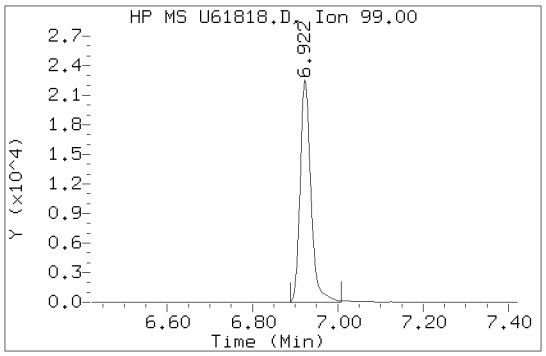
AFTER
MASS
98
AREA
378252
HEIGHT
231837
15-Jul-2024
12:00
s
zaid



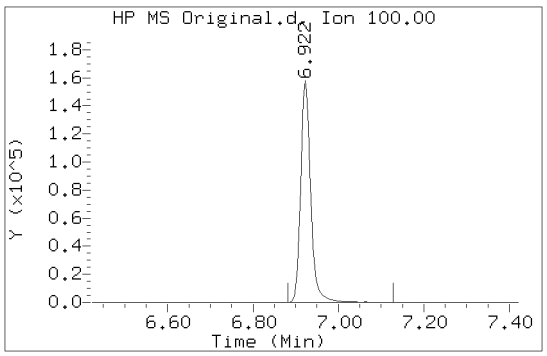
BEFORE
MASS
99
AREA
40248
HEIGHT
22552
15-Jul-2024
12:00
s
zaid



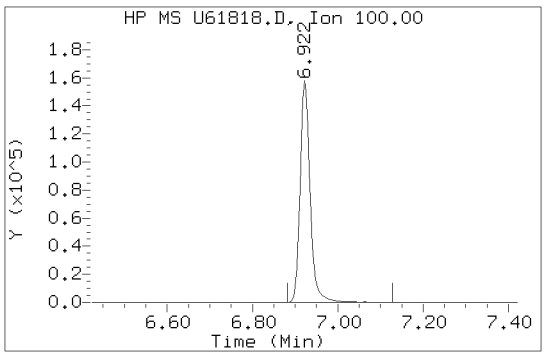
AFTER
MASS
99
AREA
40248
HEIGHT
22552
15-Jul-2024
12:00
s
zaid



BEFORE
MASS
100
AREA
262012
HEIGHT
157952
15-Jul-2024
12:00
s
zaid



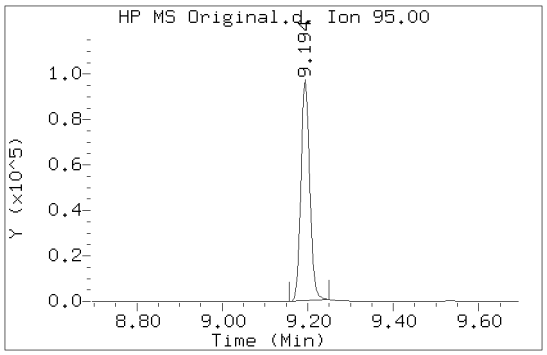
AFTER
MASS
100
AREA
262012
HEIGHT
157952
15-Jul-2024
12:00
s
zaid



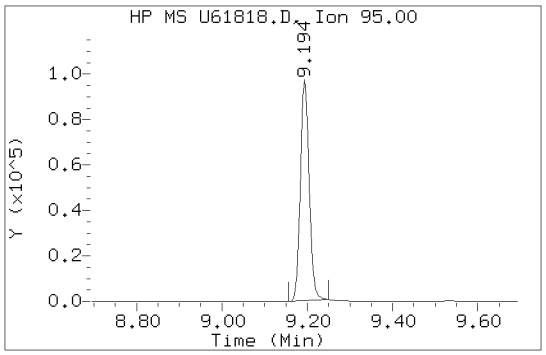
4-Bromofluorobenzene (460-00-4)

Reason Code:

BEFORE
MASS
95
AREA
142001
HEIGHT
97194
15-Jul-2024
12:00
s
zaid



AFTER
MASS
95
AREA
142001
HEIGHT
97194
15-Jul-2024
12:00
s
zaid



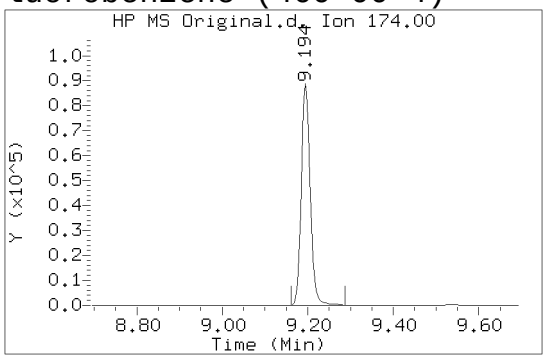
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61818.D
Inj Date : 18-JUN-2024 17:38
InstruID : VOA9.i
LabSampID : VBLKW-240618

4-Bromofluorobenzene (460-00-4)

Reason Code:

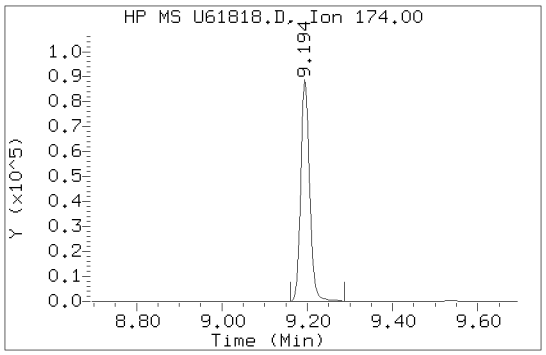
BEFORE

MASS
174
AREA
130829
HEIGHT
88720
15-Jul-2024
12:00
s
zaid



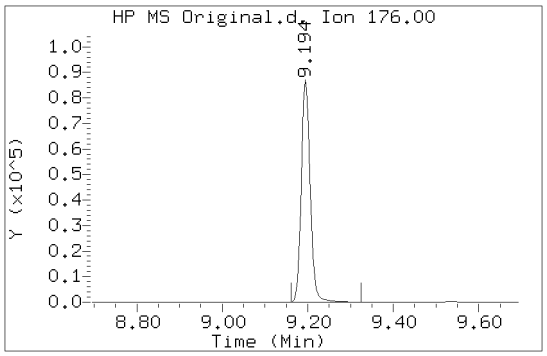
AFTER

MASS
174
AREA
130829
HEIGHT
88720
15-Jul-2024
12:00
s
zaid



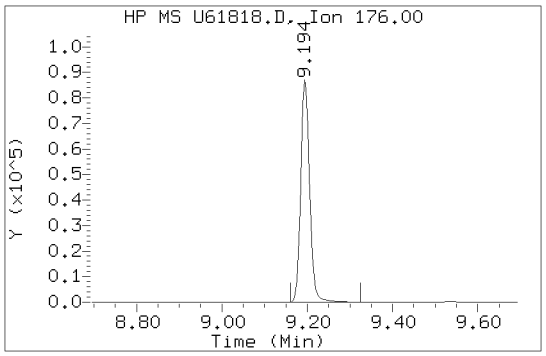
BEFORE

MASS
176
AREA
128857
HEIGHT
87040
15-Jul-2024
12:00
s
zaid



AFTER

MASS
176
AREA
128857
HEIGHT
87040
15-Jul-2024
12:00
s
zaid



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61831.D Page 1
Report Date: 15-Jul-2024 11:51

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61831.D
Lab Smp Id: HS24060379-09MS Client Smp ID: HS24060379-09MS
Inj Date : 18-JUN-2024 22:21
Operator : TS Inst ID: VOA9.i
Smp Info : HS24060379-09MS;HS24060379-09MS;3;;MS
Misc Info : V9;WATER;0;100;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240618.b\8260C.m
Meth Date : 15-Jul-2024 11:42 VOA9.i Quant Type: ISTD
Cal Date : 18-JUN-2024 14:47 Cal File: U61811.D
Als bottle: 30 QC Sample: MS
Dil Factor: 100.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	100.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1	Pentafluorobenzene	168	4.819	4.819	(1.000)	256334	50.0000	
2	Dichlorodifluoromethane	85	1.172	1.168	(0.243)	22511	16.9272	1692.72
3	Chloromethane	50	1.303	1.303	(0.270)	68480	15.8959	1589.58
4	Propionitrile	54	4.339	4.339	(0.900)	42321	184.521	18452.12(a)
5	Vinyl Chloride	62	1.385	1.382	(0.288)	35470	17.8498	1784.98
6	Bromomethane	94	1.621	1.618	(0.337)	15923	22.6410	2264.10
7	Chloroethane	64	1.704	1.704	(0.354)	24940	18.0142	1801.42
8	Trichlorofluoromethane	101	1.903	1.899	(0.395)	42810	18.0202	1802.02
9	Acrolein	56	2.270	2.270	(0.471)	2307	23.6649	2366.48
10	Acetone	43	2.412	2.412	(0.501)	71795	120.487	12048.70
11	1,1-Dichloroethene	96	2.337	2.334	(0.485)	25791	17.9684	1796.83
12	Isobutyl Alcohol	43	5.288	5.284	(1.097)	79795	344.599	34459.91(a)
13	Acetonitrile	39	2.675	2.675	(0.555)	33246	169.621	16962.05(a)
14	Allyl Chloride	41	2.679	2.675	(0.556)	82059	18.1070	1810.69(a)
15	Iodomethane	142	2.472	2.469	(0.513)	15992	84.5354	8453.54
16	Acrylonitrile	53	3.072	3.068	(0.638)	22425	36.5347	3653.46
17	Methylene Chloride	84	2.799	2.799	(0.581)	33943	17.4365	1743.64
18	Methyl tert-butyl ether	73	3.087	3.083	(0.641)	74581	17.2135	1721.34
19	Carbon Disulfide	76	2.525	2.521	(0.524)	131718	31.8412	3184.11
20	trans-1,2-Dichloroethene	96	3.061	3.061	(0.635)	27808	17.2471	1724.70

21 Vinyl Acetate	43	4.343	4.343 (0.901)	31071	36.5929	3659.28
22 1,1-Dichloroethane	63	3.515	3.515 (0.729)	53279	17.6665	1766.64

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61831.D Page 2
Report Date: 15-Jul-2024 11:51

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
23	Chloroprene	53	3.612	3.608	(0.750)	43963	16.9699	1696.99
24	2-Butanone	43	4.268	4.264	(0.886)	29463	34.6772	3467.72
25	Methacrylonitrile	41	4.497	4.497	(0.933)	16112	15.7637	1576.37(a)
26	2,2-Dichloropropane	77	4.186	4.182	(0.869)	35631	15.7759	1577.58
27	cis-1,2-Dichloroethene	96	4.201	4.197	(0.872)	31439	16.8009	1680.09
28	Chloroform	83	4.575	4.575	(0.949)	54694	17.7117	1771.17
29	Bromochloromethane	128	4.470	4.470	(0.928)	16068	16.8425	1684.24
$ 30	Dibromofluoromethane	113	4.752	4.748	(0.986)	95003	58.2639	58.26
31	1,1,1-Trichloroethane	97	4.744	4.744	(0.984)	42420	17.3713	1737.13
32	1,1-Dichloropropene	75	4.924	4.924	(0.887)	38645	15.9077	1590.76
33	1,2-Dichloroethane	62	5.175	5.175	(0.932)	42548	17.5549	1755.49
34	Carbon Tetrachloride	117	4.913	4.913	(0.885)	33482	16.4093	1640.92
$ 35	1,2-Dichloroethane-d4	65	5.100	5.096	(1.058)	114151	58.6347	58.63
* 36	1,4-Difluorobenzene	114	5.554	5.554	(1.000)	374684	50.0000	
37	Benzene	78	5.141	5.138	(0.926)	122262	17.3057	1730.57
38	Trichloroethene	130	5.790	5.786	(1.043)	31035	17.1529	1715.29
39	Bromodichloromethane	83	6.277	6.277	(1.130)	34275	16.2553	1625.53
40	Methyl Methacrylate	41	5.824	5.824	(1.208)	10651	18.0045	1800.45(a)
42	1,2-Dichloropropane	63	6.011	6.007	(1.082)	31596	16.8858	1688.58
43	2-Nitropropane	43	6.510	6.506	(1.351)	7057	16.9283	1692.82
44	Dibromomethane	93	6.120	6.120	(1.102)	18699	16.7490	1674.89
45	4-Methyl-2-Pentanone	43	6.855	6.855	(0.837)	59572	34.4232	3442.31
46	cis-1,3-Dichloropropene	75	6.690	6.690	(1.204)	39031	15.1575	1515.74
* 47	Chlorobenzene-d5	117	8.185	8.185	(1.000)	346380	50.0000	
$ 48	Toluene-d8	98	6.922	6.922	(0.846)	371707	62.0445	62.04
49	Ethyl Methacrylate	69	7.289	7.289	(1.312)	37351	16.9189	1691.89(a)
50	Toluene	91	6.982	6.982	(0.853)	129169	17.3953	1739.53
51	trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	31658	15.0622	1506.22
52	2-Hexanone	43	7.215	7.218	(0.881)	61788	38.1565	3815.65
53	1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	24270	17.5984	1759.84
54	1,3-Dichloropropane	76	7.499	7.499	(0.916)	49570	16.6267	1662.67
55	Dibromochloromethane	129	7.691	7.691	(0.940)	25163	15.4768	1547.68
56	Tetrachloroethene	164	7.458	7.458	(0.911)	23683	15.9766	1597.66
57	1,2-Dibromoethane	107	7.784	7.784	(0.951)	27271	17.0077	1700.76
58	1-Chlorohexane	55	8.197	8.197	(1.476)	23858	16.2697	1626.96
59	Chlorobenzene	112	8.212	8.212	(1.003)	81642	16.7543	1675.43
60	1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	26691	15.8280	1582.80
61	Ethylbenzene	106	8.309	8.309	(1.015)	44451	18.6265	1862.64
62	m,p-Xylenes	106	8.410	8.410	(1.027)	97663	34.2768	3427.68
63	o-Xylene	106	8.748	8.748	(1.069)	50168	17.9315	1793.15
64	Styrene	104	8.763	8.763	(1.071)	241403	50.4636	5046.36
66	Bromoform	173	8.920	8.920	(1.090)	15388	15.1684	1516.84
67	Isopropylbenzene	105	9.063	9.063	(1.107)	124746	16.9832	1698.31
68	1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	38827	17.0526	1705.26
$ 69	4-Bromofluorobenzene	95	9.194	9.194	(1.123)	141512	61.7150	61.71
* 70	1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	194809	50.0000	
71	1,2,3-Trichloropropane	75	9.363	9.362	(0.920)	37488	17.3512	1735.12
72	trans-1,4-Dichloro-2-butene	53	9.378	9.377	(1.146)	7409	16.1464	1614.63(a)
73	n-Propylbenzene	91	9.415	9.411	(0.926)	133516	15.7870	1578.70
74	Bromobenzene	156	9.318	9.317	(0.916)	35007	16.2077	1620.77
75	1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	83813	15.3467	1534.67
76	2-Chlorotoluene	91	9.482	9.482	(0.932)	89074	16.3579	1635.78

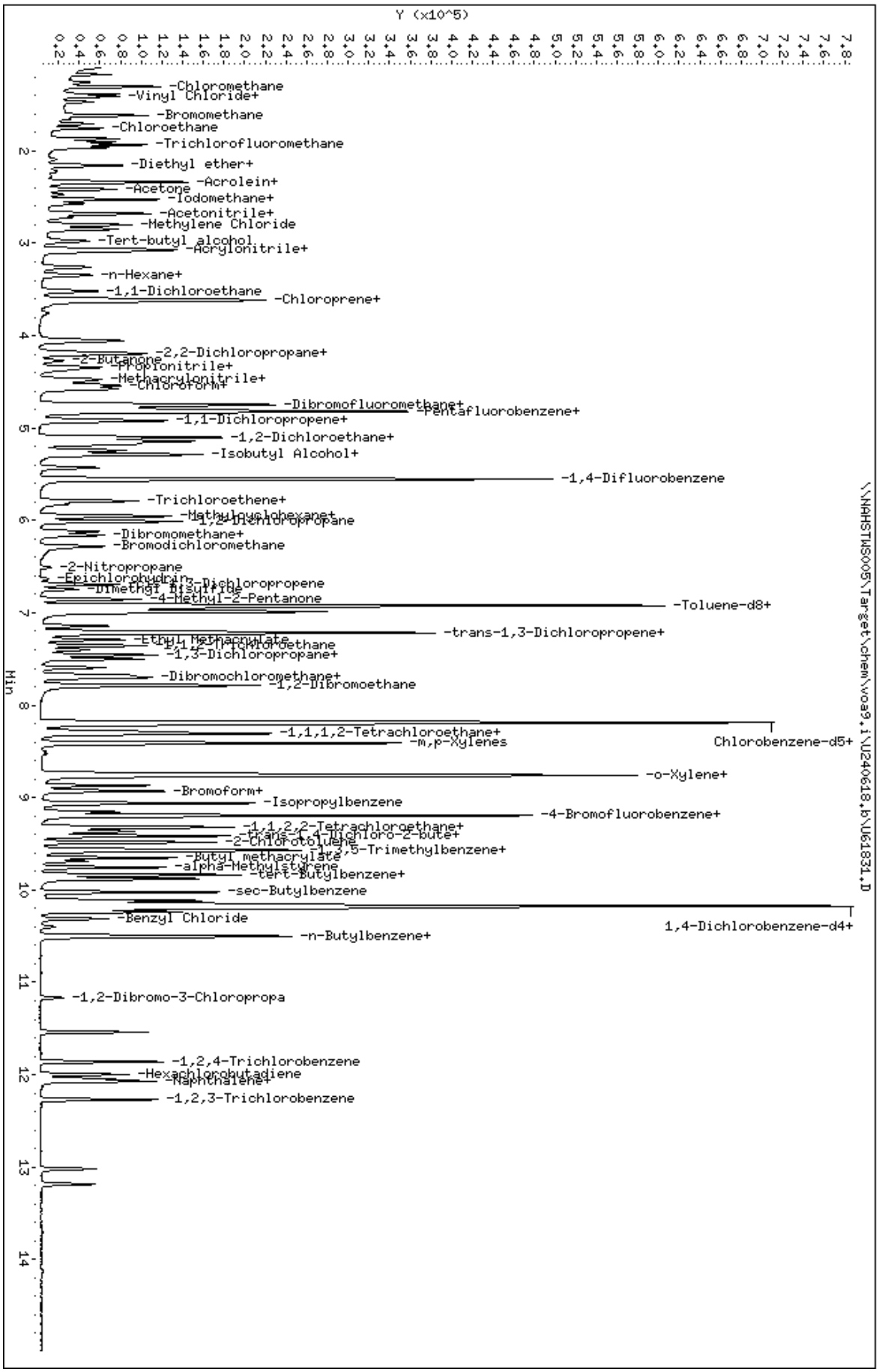
77 4-Chlorotoluene	91	9.576	9.576 (0.941)	98079	15.8818	1588.18
78 tert-Butylbenzene	119	9.839	9.839 (0.967)	86809	16.5417	1654.17

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61831.D Page 3
Report Date: 15-Jul-2024 11:51

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	78389	14.6730	1467.29
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	110539	15.9362	1593.62
82	p-Isopropyltoluene	119	10.146	10.150	(0.997)	89068	15.2503	1525.02
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	60174	15.6316	1563.15
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	63501	15.8119	1581.18
86	Benzyl Chloride	91	10.311	10.315	(1.260)	42724	17.2547	1725.46
87	n-Butylbenzene	91	10.495	10.495	(1.032)	76607	14.3168	1431.67
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	61953	16.3895	1638.94
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	4258	15.7629	1576.29
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	35542	14.3822	1438.21
91	Hexachlorobutadiene	225	11.998	12.002	(1.179)	15524	14.3529	1435.29
92	Naphthalene	128	12.069	12.069	(1.186)	75758	14.6132	1461.32
93	1,2,3-Trichlorobenzene	180	12.272	12.271	(1.206)	33460	14.9524	1495.24
146	Methyl acetate	43	2.720	2.716	(0.564)	24777	17.9197	1791.96
138	Freon TF	101	2.341	2.337	(0.486)	23061	16.4520	1645.19
141	Cyclohexane	56	4.785	4.785	(0.993)	42524	16.9192	1691.92
142	Tetrahydrofuran	42	4.545	4.542	(0.943)	11129	36.1065	3610.64
147	Methylcyclohexane	55	5.947	5.947	(1.071)	64186	15.5873	1558.73
135	1,4-Dioxane	88	6.169	6.169	(1.280)	7597	343.220	34321.99
132	n-Butanol	56	5.824	5.824	(1.208)	14976	353.382	35338.22(a)
136	n-Hexane	57	3.346	3.342	(0.694)	23886	14.1718	1417.18
139	Diethyl ether	59	2.150	2.150	(0.446)	21438	16.8204	1682.03
148	Tert-butyl alcohol	59	2.975	2.975	(0.617)	52327	377.290	37728.97
149	Isopropyl alcohol	45	2.570	2.570	(0.533)	41163	382.941	38294.14
156	Diisopropyl ether	45	3.623	3.623	(0.752)	92778	16.5882	1658.82
162	Butyl acrylate	55	8.733	8.733	(1.067)	48786	17.3641	1736.41
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	128657	17.8975	1789.74
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	69400	14.7856	1478.55
167	Ethanol	45	2.090	2.090	(0.434)	7882	347.432	34743.17
172	tert-Butyl formate	59	5.243	5.243	(1.088)	48272	37.2057	3720.57
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.300)	214889	346.153	34615.34
140	1,3-Butadiene	54	1.412	1.408	(0.293)	15735	18.1271	1812.70
182	Epichlorohydrin	57	6.633	6.630	(1.194)	4064	74.5389	7453.88
M 94	1,2-Dichloroethylene (total)	96				59247	34.0161	3401.61
M 95	Xylenes (total)	106				147831	51.7164	5171.64
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	33876	16.8090	1680.90
131	Methyl Acrylate	55	4.373	4.369	(0.907)	32384	17.2294	1722.94
189	n-Butyl acetate	43	7.706	7.706	(0.941)	44271	17.4600	1745.99
134	Cyclohexanone	55	9.153	9.156	(0.900)	29408	228.863	22886.27(a)
185	Isoprene	39	2.161	2.157	(0.449)	6868	17.6528	1765.28
188	Isopropyl acetate	43	5.288	5.284	(0.952)	80213	17.4141	1741.40
150	Allyl alcohol	57	3.346	3.342	(0.694)	23886	283.437	28343.68
194	Acetaldehyde	44	1.468	1.468	(0.305)	52979	136.357	13635.66
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	13670	13.3184	1331.84
133	Ethyl Acrylate	55	5.947	5.947	(1.234)	64186	15.4590	1545.90
163	Butyl methacrylate	41	9.651	9.651	(0.949)	33271	18.1047	1810.47
159	Propylene oxide	43	2.210	2.206	(0.459)	3953	35.2549	3525.49
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	24102	13.4933	1349.32
204	Tetrahydrothiophene	60	7.672	7.672	(0.937)	32359	17.9658	1796.58(A)
205	sec-Butyl Ether	57	7.218	7.218	(0.882)	40167	11.4200	1142.00(A)
187	n-Amyl acetate	43	8.931	8.931	(1.091)	51640	18.8062	1880.61

QC Flag Legend

a - Target compound detected but, quantitated amount exceeded Below Minimum Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount



Data File: \\NAHSTWS005\Target\chem\voa9,i\U240618,b\U61831,D
Date : 18-JUN-2024 22:21
Client ID: HS24060379-09MS
Sample Info: HS24060379-09MS;HS24060379-09MS;3;;MS
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: TS
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61831.D
Inj Date : 18-JUN-2024 22:21
InstruID : VOA9.i
LabSampID : HS24060379-09MS

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61832.D Page 1
Report Date: 15-Jul-2024 11:42

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61832.D
Lab Smp Id: HS24060379-09MSD Client Smp ID: HS24060379-09MS
Inj Date : 18-JUN-2024 22:42
Operator : TS Inst ID: VOA9.i
Smp Info : HS24060379-09MSD;HS24060379-09MS;3;;MSD
Misc Info : V9;WATER;0;100;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240618.b\8260C.m
Meth Date : 15-Jul-2024 11:41 s.zaid Quant Type: ISTD
Cal Date : 18-JUN-2024 14:47 Cal File: U61811.D
Als bottle: 30 QC Sample: MSD
Dil Factor: 100.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	100.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1	Pentafluorobenzene	168	4.811	4.812	(1.000)	264226	50.0000	
2	Dichlorodifluoromethane	85	1.156	1.160	(0.240)	22460	16.3904	1639.03
3	Chloromethane	50	1.288	1.292	(0.268)	69522	15.6309	1563.09
4	Propionitrile	54	4.332	4.335	(0.900)	45042	190.857	19085.74(a)
5	Vinyl Chloride	62	1.370	1.374	(0.285)	36112	17.6271	1762.71
6	Bromomethane	94	1.603	1.603	(0.333)	16827	23.2689	2326.89
7	Chloroethane	64	1.693	1.693	(0.352)	25803	18.0821	1808.20
8	Trichlorofluoromethane	101	1.887	1.891	(0.392)	43253	17.6629	1766.28
9	Acrolein	56	2.255	2.259	(0.469)	2431	24.3481	2434.80
10	Acetone	43	2.401	2.405	(0.499)	77009	125.880	12588.02
11	1,1-Dichloroethene	96	2.322	2.330	(0.483)	25797	17.4292	1742.92
12	Isobutyl Alcohol	43	5.280	5.284	(1.097)	81997	343.547	34354.72(a)
13	Acetonitrile	39	2.663	2.667	(0.554)	34626	171.451	17145.05(a)
14	Allyl Chloride	41	2.663	2.667	(0.554)	82524	17.6441	1764.40(a)
15	Iodomethane	142	2.457	2.461	(0.511)	15932	82.0319	8203.19
16	Acrylonitrile	53	3.057	3.061	(0.635)	23442	37.0814	3708.13
17	Methylene Chloride	84	2.787	2.787	(0.579)	34533	17.1837	1718.37
18	Methyl tert-butyl ether	73	3.072	3.076	(0.639)	77701	17.4072	1740.71
19	Carbon Disulfide	76	2.510	2.514	(0.522)	134360	31.5141	3151.41
20	trans-1,2-Dichloroethene	96	3.050	3.053	(0.634)	27150	16.3116	1631.16

21 Vinyl Acetate	43	4.335	4.335 (0.901)	31884	36.4261	3642.61
22 1,1-Dichloroethane	63	3.503	3.507 (0.728)	54411	17.4974	1749.73

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61832.D Page 2
Report Date: 15-Jul-2024 11:42

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	23 Chloroprene	53	3.601	3.604	(0.748)	44152	16.5339	1653.38
	24 2-Butanone	43	4.260	4.257	(0.885)	30289	34.5785	3457.84
	25 Methacrylonitrile	41	4.489	4.489	(0.933)	17354	16.4833	1648.32(a)
	26 2,2-Dichloropropane	77	4.174	4.178	(0.868)	36177	15.5402	1554.02
	27 cis-1,2-Dichloroethene	96	4.189	4.193	(0.871)	33241	17.2475	1724.74
	28 Chloroform	83	4.568	4.568	(0.949)	56158	17.6405	1764.05
	29 Bromochloromethane	128	4.463	4.467	(0.928)	16475	16.7498	1674.97
$	30 Dibromofluoromethane	113	4.740	4.744	(0.985)	99283	59.0702	59.07
	31 1,1,1-Trichloroethane	97	4.736	4.740	(0.984)	44037	17.4949	1749.48
	32 1,1-Dichloropropene	75	4.916	4.920	(0.886)	39090	15.4786	1547.85
	33 1,2-Dichloroethane	62	5.171	5.171	(0.932)	44171	17.5289	1752.89
	34 Carbon Tetrachloride	117	4.905	4.909	(0.884)	34596	16.3101	1631.00
$	35 1,2-Dichloroethane-d4	65	5.093	5.093	(1.058)	120414	60.0043	60.00
*	36 1,4-Difluorobenzene	114	5.550	5.550	(1.000)	389506	50.0000	
	37 Benzene	78	5.134	5.138	(0.925)	125008	17.0138	1701.38
	38 Trichloroethene	130	5.786	5.786	(1.043)	31182	16.5685	1656.84
	39 Bromodichloromethane	83	6.273	6.277	(1.130)	35005	15.9736	1597.36
	40 Methyl Methacrylate	41	5.824	5.824	(1.210)	10698	17.5404	1754.04(a)
	42 1,2-Dichloropropane	63	6.004	6.007	(1.082)	32490	16.6953	1669.53
	43 2-Nitropropane	43	6.506	6.506	(1.352)	7769	18.0796	1807.95
	44 Dibromomethane	93	6.116	6.116	(1.102)	19390	16.7058	1670.57
	45 4-Methyl-2-Pentanone	43	6.851	6.851	(0.837)	61301	34.7357	3473.57
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.205)	40369	15.0857	1508.57
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	353211	50.0000	
$	48 Toluene-d8	98	6.918	6.922	(0.845)	383958	62.8499	62.84(R)
	49 Ethyl Methacrylate	69	7.289	7.289	(1.313)	38224	16.6512	1665.11(a)
	50 Toluene	91	6.978	6.982	(0.853)	130010	17.1671	1716.70
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	33213	15.1936	1519.36
	52 2-Hexanone	43	7.214	7.222	(0.881)	62285	37.6795	3767.95
	53 1,1,2-Trichloroethane	83	7.353	7.353	(0.898)	24769	17.6142	1761.42
	54 1,3-Dichloropropane	76	7.495	7.499	(0.916)	51502	16.9483	1694.82
	55 Dibromochloromethane	129	7.690	7.691	(0.940)	25763	15.5363	1553.62
	56 Tetrachloroethene	164	7.454	7.458	(0.911)	23621	15.6266	1562.66
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	27768	16.9826	1698.25
	58 1-Chlorohexane	55	8.193	8.197	(1.476)	23665	15.4100	1541.00
	59 Chlorobenzene	112	8.208	8.208	(1.003)	82947	16.6910	1669.09
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	26830	15.6027	1560.27
	61 Ethylbenzene	106	8.305	8.305	(1.015)	45938	18.8786	1887.85
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	100783	34.6878	3468.77
	63 o-Xylene	106	8.748	8.748	(1.069)	50342	17.6457	1764.57
	64 Styrene	104	8.763	8.763	(1.071)	238915	48.9776	4897.76
	66 Bromoform	173	8.916	8.920	(1.089)	15847	15.3091	1530.91
	67 Isopropylbenzene	105	9.062	9.063	(1.107)	126467	16.8845	1688.44
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	40355	17.8482	1784.82
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	144512	61.8044	61.80
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	193782	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	38403	17.8794	1787.94
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	7713	16.4862	1648.61(a)
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	135465	16.1024	1610.23
	74 Bromobenzene	156	9.317	9.317	(0.916)	35578	16.5732	1657.31
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	84763	15.6030	1560.29
	76 2-Chlorotoluene	91	9.482	9.482	(0.932)	90045	16.6298	1662.97

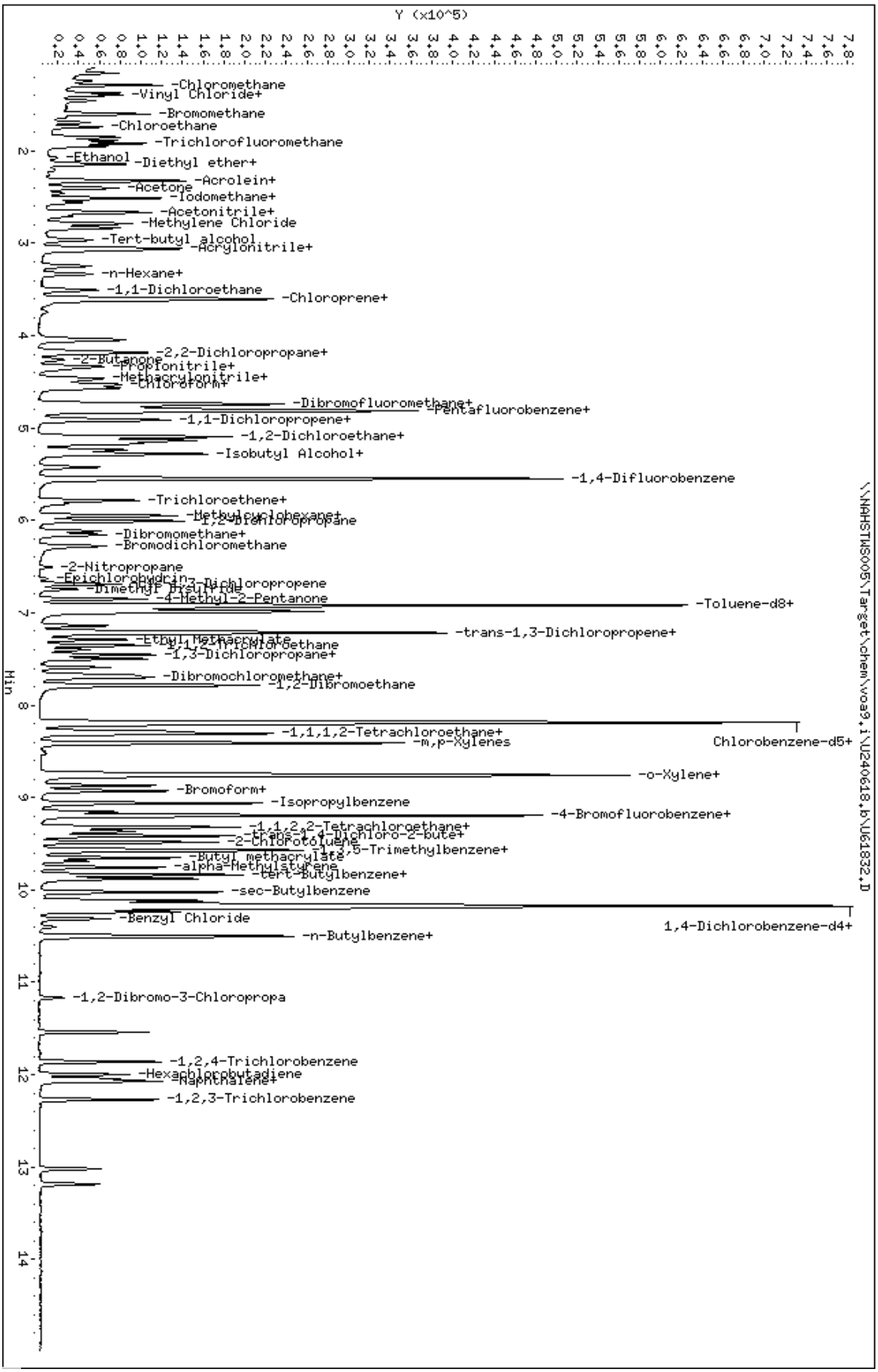
77 4-Chlorotoluene	91	9.576	9.576 (0.941)	98067	15.9650	1596.49
78 tert-Butylbenzene	119	9.838	9.839 (0.967)	88543	16.9616	1696.15

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61832.D Page 3
Report Date: 15-Jul-2024 11:42

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	79781	15.0044	1500.43
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	111954	16.2258	1622.57
82	p-Isopropyltoluene	119	10.146	10.150	(0.997)	91755	15.7936	1579.35
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	61074	15.9626	1596.26
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	65445	16.4078	1640.77
86	Benzyl Chloride	91	10.311	10.311	(1.260)	44254	17.5769	1757.68
87	n-Butylbenzene	91	10.494	10.495	(1.032)	78249	14.7011	1470.11
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	60993	16.2147	1621.46
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	4403	16.3824	1638.24
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	35732	14.5402	1454.02
91	Hexachlorobutadiene	225	12.001	12.002	(1.180)	15757	14.6509	1465.08
92	Naphthalene	128	12.069	12.069	(1.186)	80537	15.5831	1558.30
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	33861	15.2186	1521.85
146	Methyl acetate	43	2.705	2.709	(0.562)	25405	17.8170	1781.69
138	Freon TF	101	2.326	2.330	(0.483)	24042	16.6396	1663.95
141	Cyclohexane	56	4.778	4.782	(0.993)	43992	16.9875	1698.75
142	Tetrahydrofuran	42	4.538	4.538	(0.943)	11697	36.8819	3688.19
147	Methylcyclohexane	55	5.944	5.944	(1.071)	67017	15.6555	1565.55
135	1,4-Dioxane	88	6.165	6.165	(1.281)	7516	327.033	32703.34
132	n-Butanol	56	5.824	5.824	(1.210)	14816	339.020	33902.02(a)
136	n-Hexane	57	3.331	3.338	(0.692)	23744	13.6668	1366.68
139	Diethyl ether	59	2.135	2.139	(0.444)	22790	17.3828	1738.27
148	Tert-butyl alcohol	59	2.963	2.967	(0.616)	53476	373.814	37381.40
149	Isopropyl alcohol	45	2.558	2.562	(0.532)	40424	363.889	36388.94
156	Diisopropyl ether	45	3.612	3.616	(0.751)	99024	17.2068	1720.68
162	Butyl acrylate	55	8.733	8.733	(1.067)	51042	17.8248	1782.48
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	129736	18.1528	1815.27
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	69990	14.9836	1498.36
167	Ethanol	45	2.075	2.083	(0.431)	8004	341.647	34164.69
172	tert-Butyl formate	59	5.235	5.243	(1.088)	50174	37.5247	3752.46
151	4-Methyl-2-pentanol	45	7.214	7.222	(1.300)	219573	340.187	34018.65
140	1,3-Butadiene	54	1.396	1.400	(0.290)	15847	17.7108	1771.08
182	Epichlorohydrin	57	6.630	6.630	(1.195)	4217	74.4117	7441.17
M 94	1,2-Dichloroethylene (total)	96				60391	33.6260	3362.59
M 95	Xylenes (total)	106				151125	50.8569	5085.69
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	33512	16.7233	1672.33
131	Methyl Acrylate	55	4.362	4.365	(0.907)	34346	17.7533	1775.33
189	n-Butyl acetate	43	7.705	7.706	(0.941)	45489	17.5938	1759.37
134	Cyclohexanone	55	9.152	9.153	(0.900)	28763	224.589	22458.92(a)
185	Isoprene	39	2.146	2.154	(0.446)	7075	17.6415	1764.15
188	Isopropyl acetate	43	5.280	5.284	(0.951)	82364	17.1971	1719.70
150	Allyl alcohol	57	3.331	3.338	(0.692)	23744	273.336	27333.63
194	Acetaldehyde	44	1.453	1.456	(0.302)	73749	188.607	18860.68
200	Dimethyl Disulfide	94	6.742	6.746	(0.824)	14668	13.9583	1395.83
133	Ethyl Acrylate	55	5.944	5.944	(1.235)	67017	15.6588	1565.87
163	Butyl methacrylate	41	9.651	9.651	(0.949)	34470	18.9299	1892.98
159	Propylene oxide	43	2.195	2.195	(0.456)	2375	18.9068	1890.68
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	25718	14.4389	1443.89
204	Tetrahydrothiophene	60	7.672	7.672	(0.937)	33738	18.3782	1837.81(A)
205	sec-Butyl Ether	57	7.214	7.218	(0.881)	38619	10.7038	1070.37(A)
187	n-Amyl acetate	43	8.931	8.931	(1.091)	48544	17.2971	1729.71

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.



Data File: \\NAHSTWS005\Target\chem\voa9,i\U240618,b\U61832.D
Date : 18-JUN-2024 22:42
Client ID: HS24060379-09MS
Sample Info: HS24060379-09MSD;HS24060379-09MS;3;;MSD
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: TS
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61832.D
Inj Date : 18-JUN-2024 22:42
InstruID : VOA9.i
LabSampID : HS24060379-09MSD

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61833.D Page 1
Report Date: 15-Jul-2024 13:05

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61833.D
Lab Smp Id: HS24060434-08
Inj Date : 18-JUN-2024 23:04
Operator : TS   Inst ID: VOA9.i
Smp Info : HS24060434-08
Misc Info : V9;WATER;0;25;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240618.b\8260C.m
Meth Date : 15-Jul-2024 11:56 VOA9.i   Quant Type: ISTD
Cal Date : 18-JUN-2024 14:47   Cal File: U61811.D
Als bottle: 31
Dil Factor: 25.00000
Integrator: HP RTE   Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	25.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

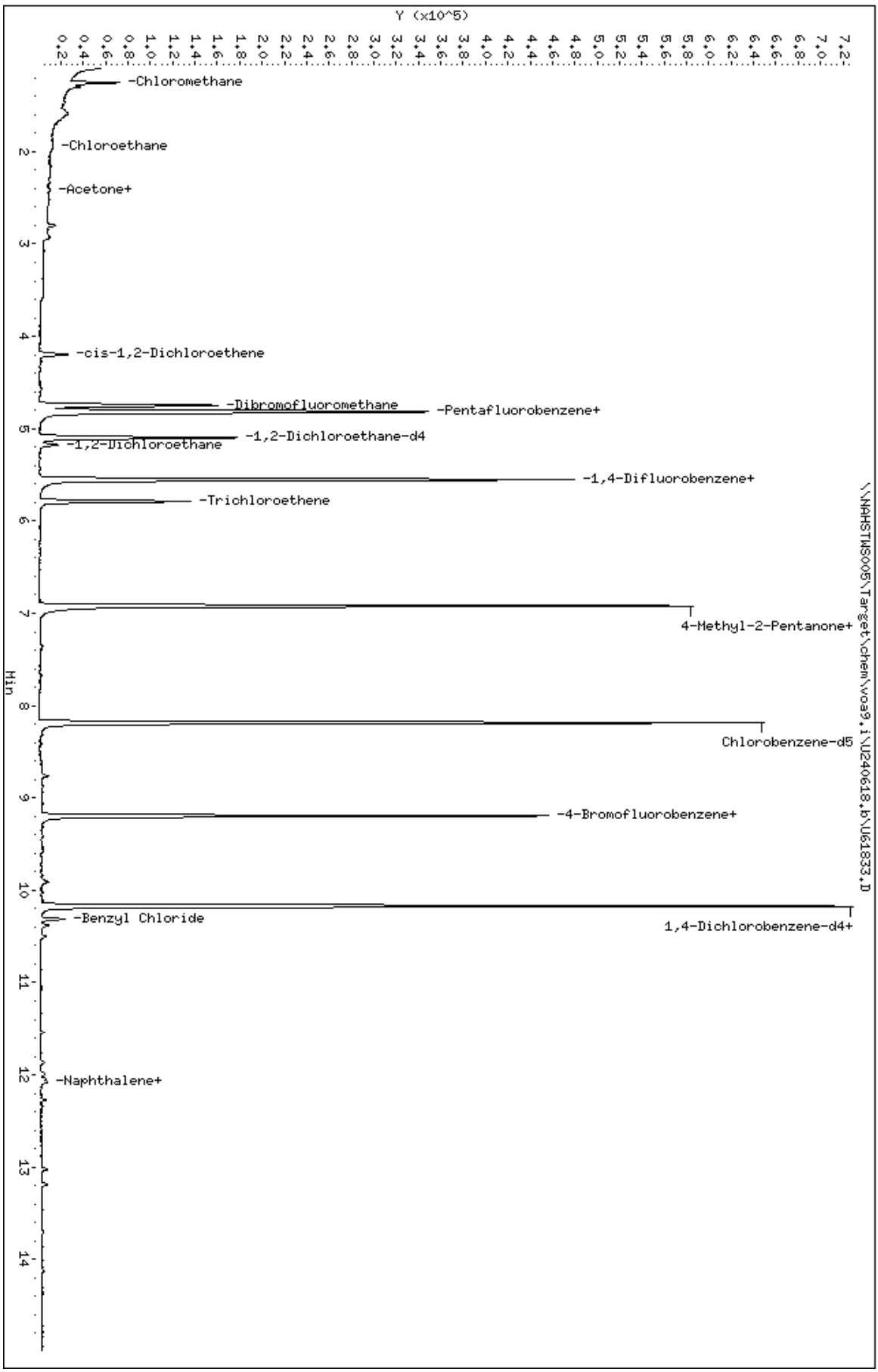
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
*	1 Pentafluorobenzene	168	4.815	4.819	(1.000)	255808	50.0000	
	2 Dichlorodifluoromethane	85	1.021	1.168	(0.212)	11001	8.39651	209.91
	3 Chloromethane	50	1.303	1.303	(0.271)	6880	0.36670	9.16(a)
	5 Vinyl Chloride	62	1.021	1.382	(0.212)	15556	7.70622	192.65
	7 Chloroethane	64	1.947	1.704	(0.404)	897	0.43710	10.92(a)
	10 Acetone	43	2.412	2.412	(0.501)	3895	0.65459	16.36(a)
	15 Iodomethane	142	2.476	2.469	(0.514)	1085	5.39565	134.89
	27 cis-1,2-Dichloroethene	96	4.200	4.197	(0.872)	11791	5.97555	149.38
$	30 Dibromofluoromethane	113	4.748	4.748	(0.986)	92603	56.9088	56.90
	33 1,2-Dichloroethane	62	5.179	5.175	(0.933)	11516	3.60863	90.21
	34 Carbon Tetrachloride	117	4.815	4.913	(0.867)	22585	11.0524	276.31
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	112185	57.7433	57.74(M)
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	375238	50.0000	
	38 Trichloroethene	130	5.790	5.786	(1.043)	43733	24.2570	606.42
	42 1,2-Dichloropropane	63	5.554	6.007	(1.000)	76637	41.8858	1047.14
	45 4-Methyl-2-Pentanone	43	6.922	6.855	(0.846)	1841	1.19766	29.94(a)
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	344688	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	363943	61.0467	61.04
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	134784	59.0693	59.06
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	183619	50.0000	

71 1,2,3-Trichloropropane	75	9.194	9.362 (0.904)	65319	32.2967	807.41
78 tert-Butylbenzene	119	10.146	9.839 (0.997)	1042	0.21066	5.26(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	86 Benzyl Chloride	91	10.311	10.315	(1.260)	13577	3.22209	80.55(a)
	92 Naphthalene	128	12.073	12.069	(1.187)	4110	1.28830	32.20(a)
	141 Cyclohexane	56	4.815	4.785	(1.000)	4754	0.15305	3.82(a)
	166 1,2,3-Trimethylbenzene	105	10.239	10.236	(1.007)	755	0.53177	13.29(a)
M	94 1,2-Dichloroethylene (total)	96				11791	5.99861	149.96(a)
	203 2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	1691	1.26303	31.57(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa9,i\U240618,b\U61833,D
Date : 18-JUN-2024 23:04
Client ID:
Sample Info: HS2406043-08
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9,i
Operator: TS
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61833.D Page 2

Date : 18-JUN-2024 23:04

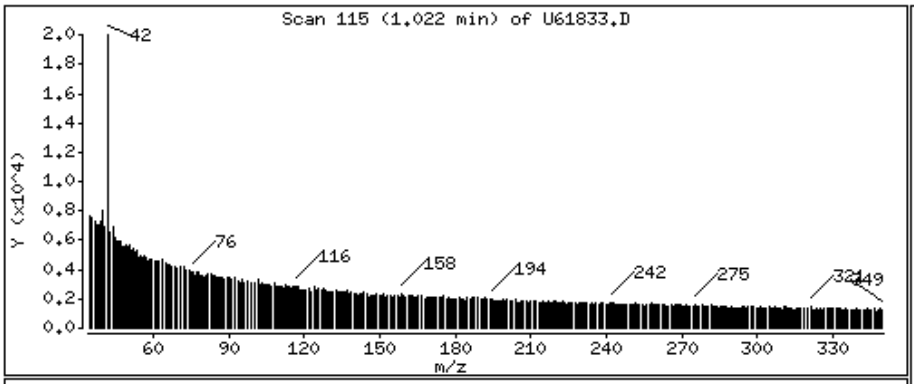
Client ID: Instrument: VOA9.i

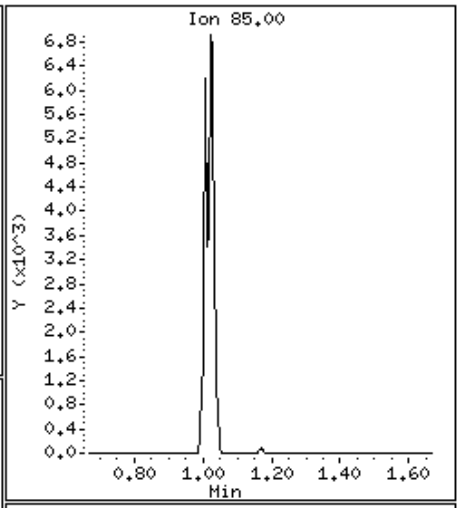
Sample Info: HS24060434-08

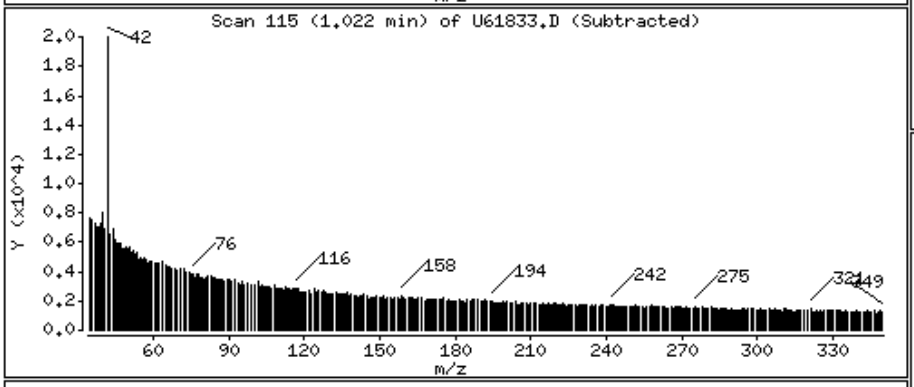
Purge Volume: 5.0 Operator: TS

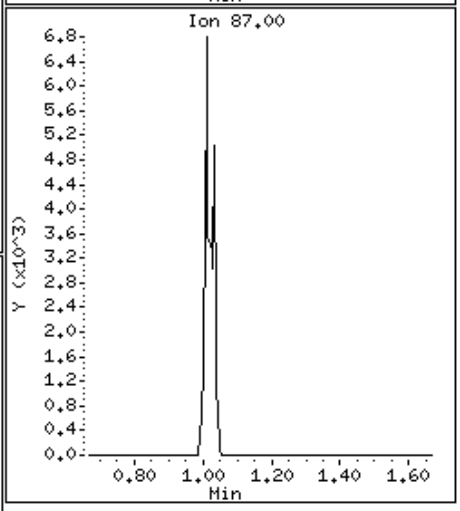
Column phase: DB624 Column diameter: 0.18

2 Dichlorodifluoromethane Concentration: 209.91 ug/l









Data File: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61833.D Page 3

Date : 18-JUN-2024 23:04

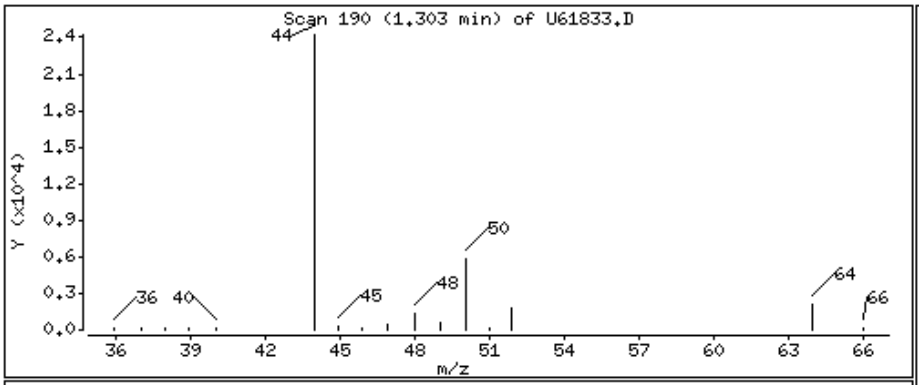
Client ID: Instrument: VOA9.i

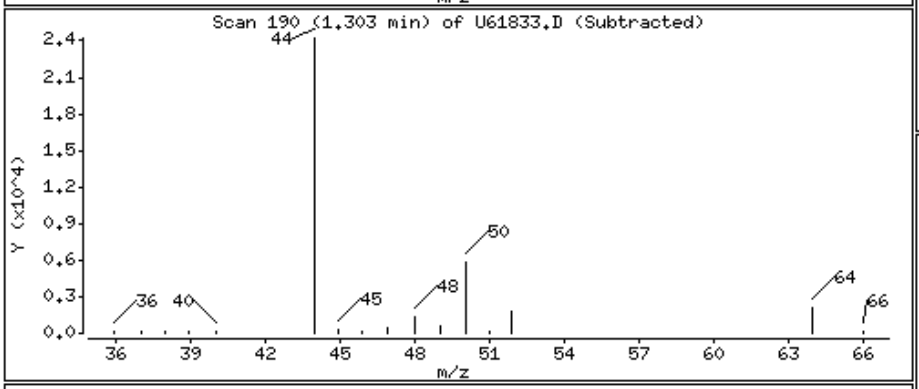
Sample Info: HS24060434-08

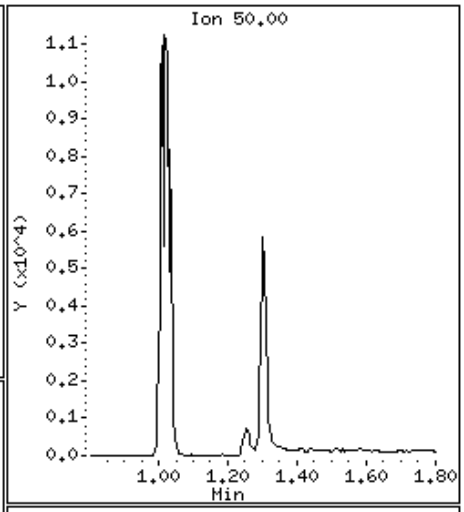
Purge Volume: 5.0 Operator: TS

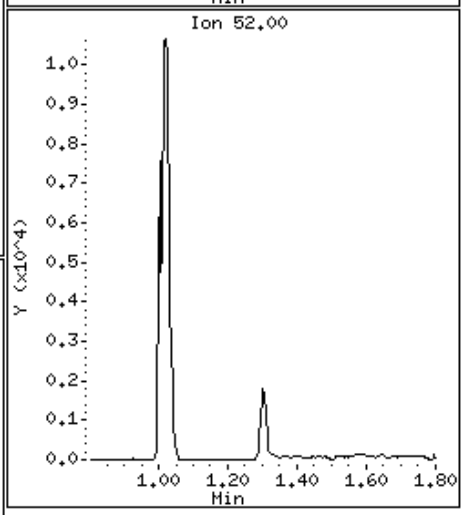
Column phase: DB624 Column diameter: 0.18

3 Chloromethane Concentration: 9.16 ug/l









Data File: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61833.D Page 4

Date : 18-JUN-2024 23:04

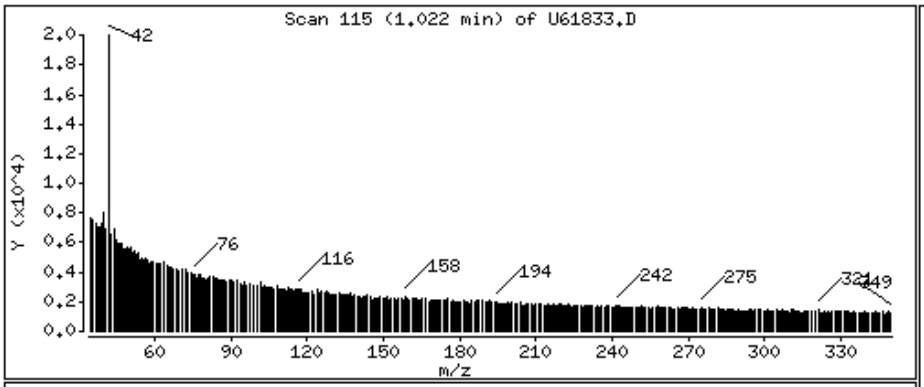
Client ID: Instrument: VOA9.i

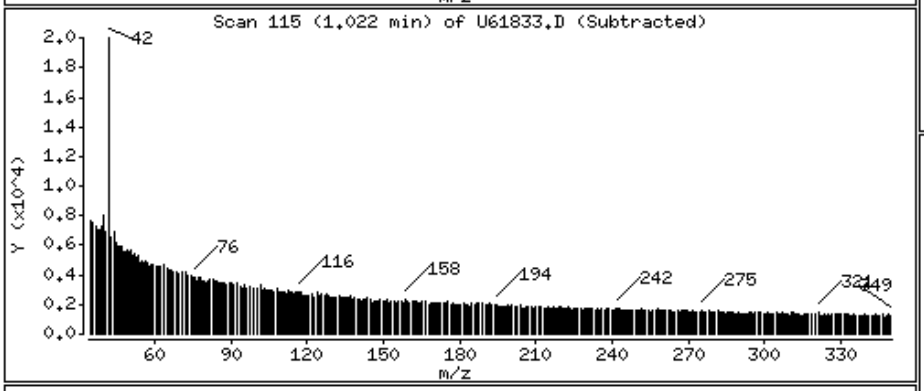
Sample Info: HS24060434-08

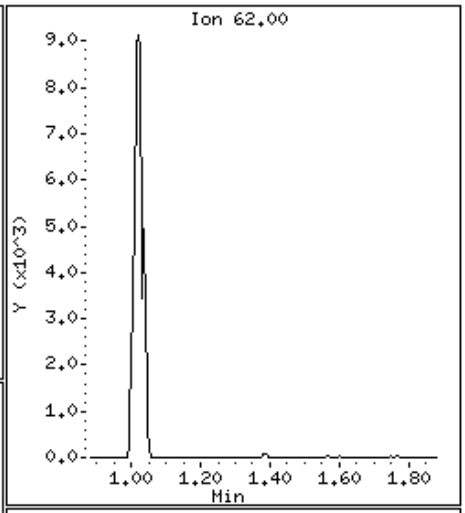
Purge Volume: 5.0 Operator: TS

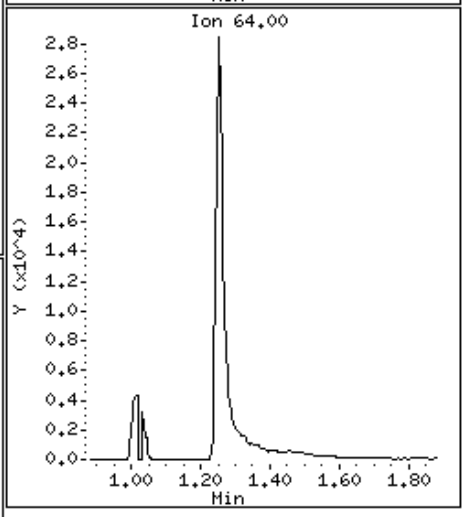
Column phase: DB624 Column diameter: 0.18

5 Vinyl Chloride Concentration: 192.65 ug/l









Data File: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61833.D Page 5

Date : 18-JUN-2024 23:04

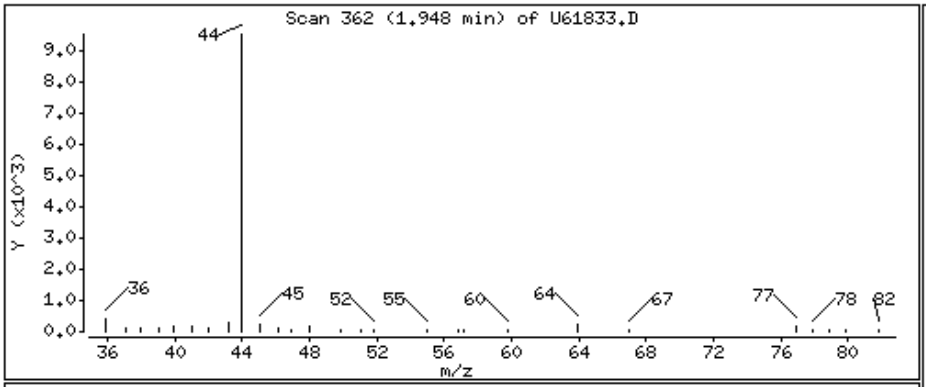
Client ID: Instrument: VOA9.i

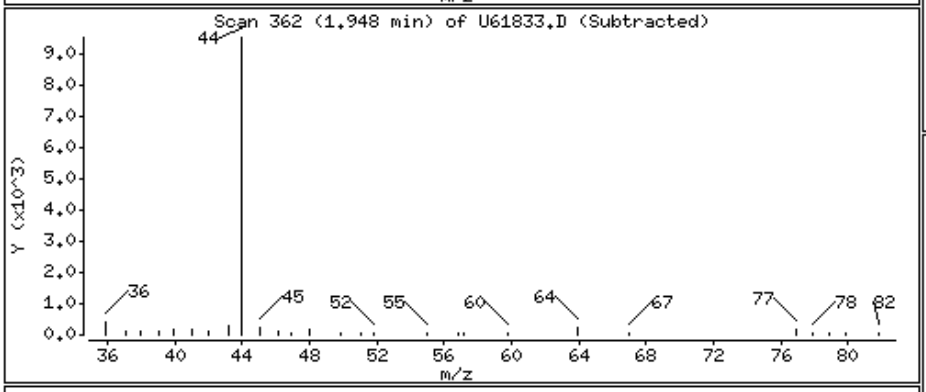
Sample Info: HS24060434-08

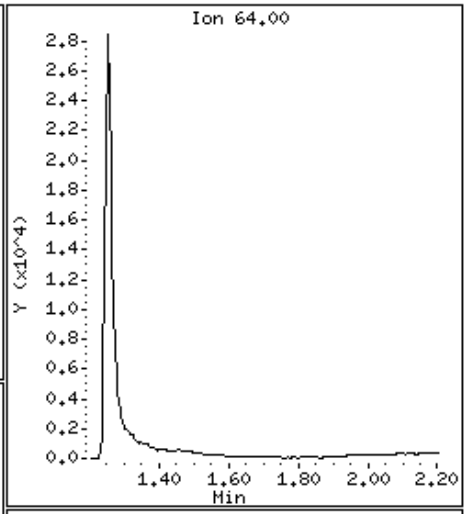
Purge Volume: 5.0 Operator: TS

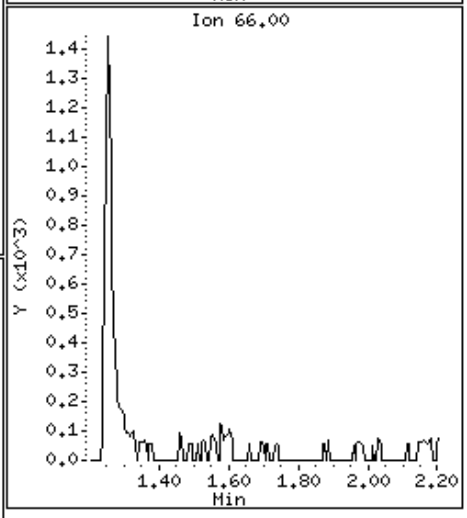
Column phase: DB624 Column diameter: 0.18

7 Chloroethane Concentration: 10.92 ug/l









Data File: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61833.D Page 6

Date : 18-JUN-2024 23:04

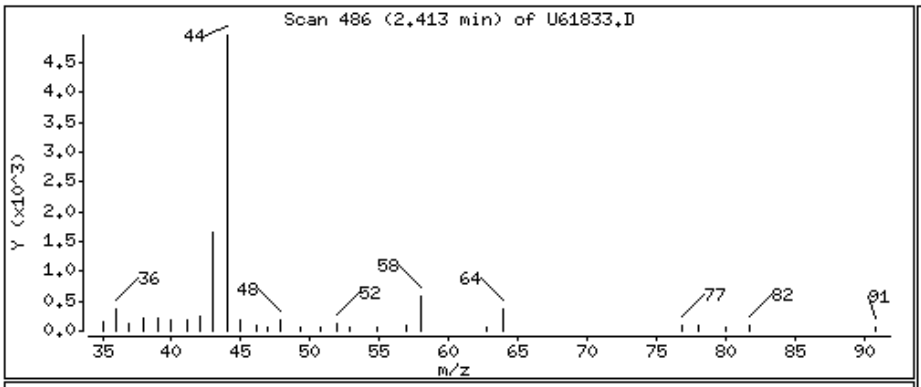
Client ID: Instrument: VOA9.i

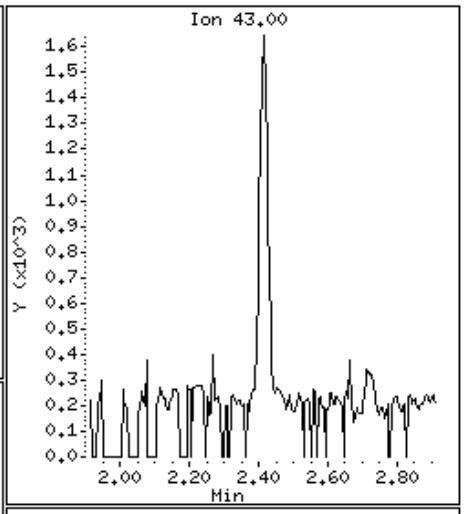
Sample Info: HS24060434-08

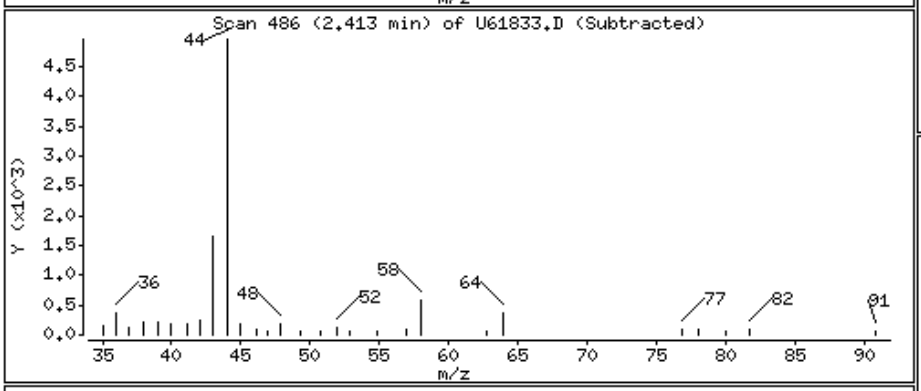
Purge Volume: 5.0 Operator: TS

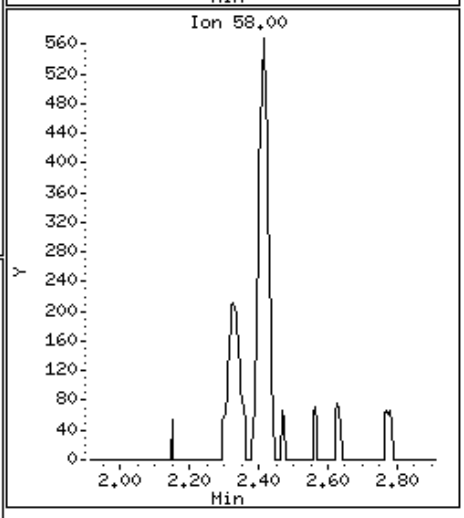
Column phase: DB624 Column diameter: 0.18

10 Acetone Concentration: 16.36 ug/l









Data File: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61833.D Page 7

Date : 18-JUN-2024 23:04

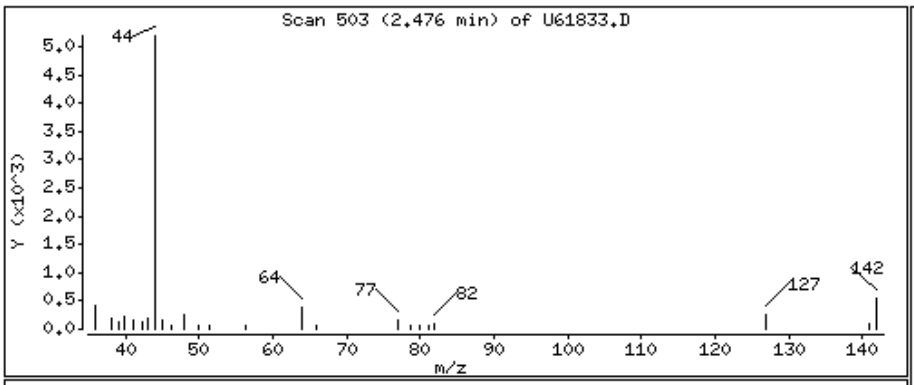
Client ID: Instrument: VOA9.i

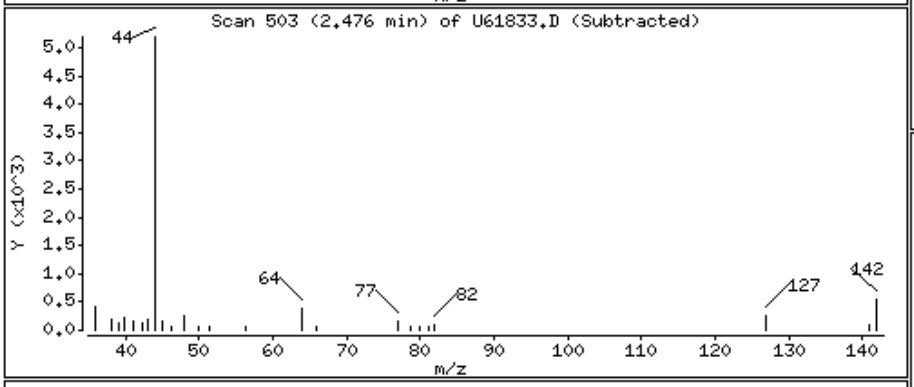
Sample Info: HS24060434-08

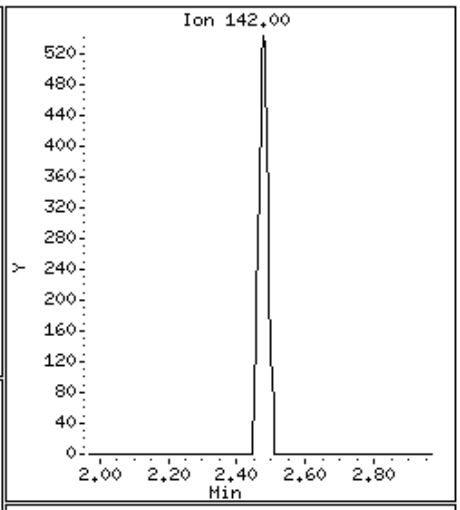
Purge Volume: 5.0 Operator: TS

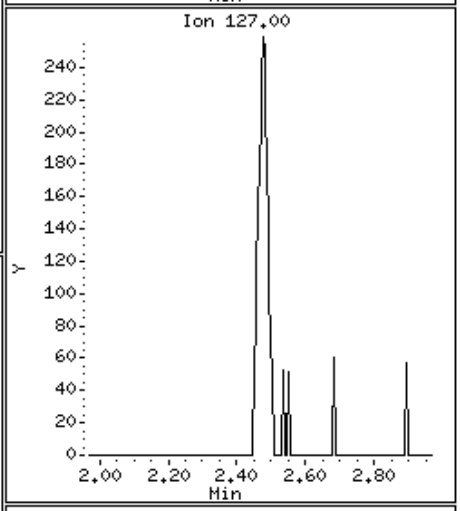
Column phase: DB624 Column diameter: 0.18

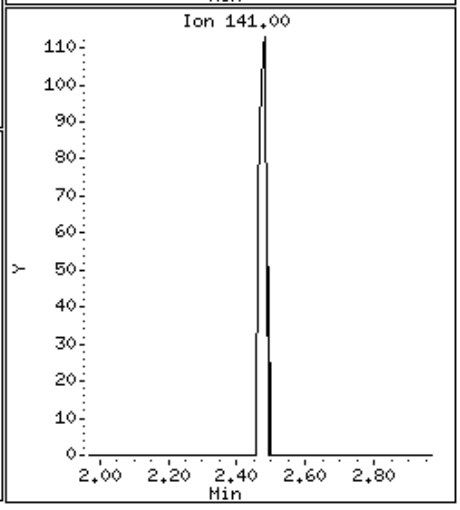
15 Iodomethane Concentration: 134.89 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61833.D Page 8

Date : 18-JUN-2024 23:04

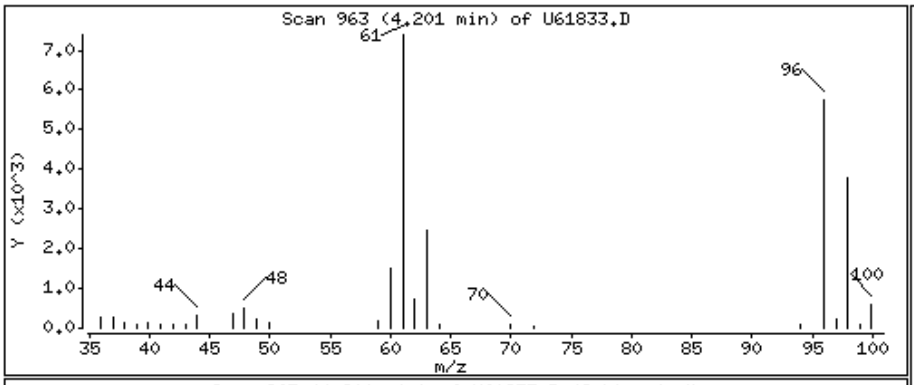
Client ID: Instrument: VOA9.i

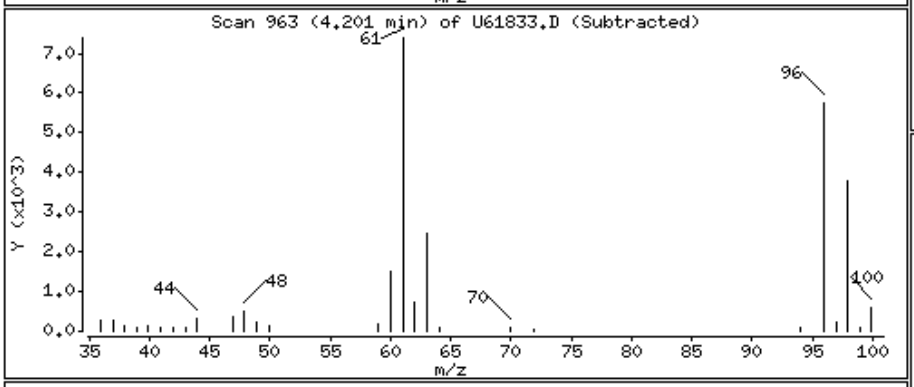
Sample Info: HS24060434-08

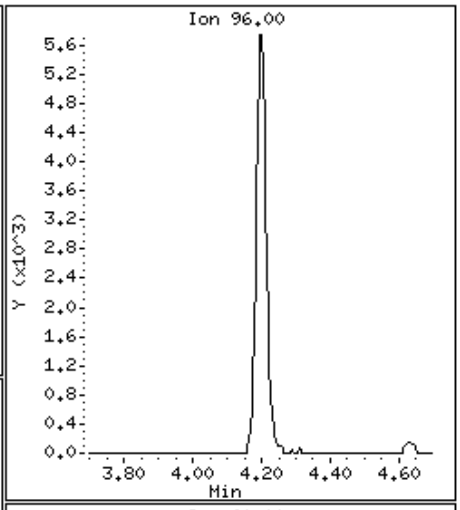
Purge Volume: 5.0 Operator: TS

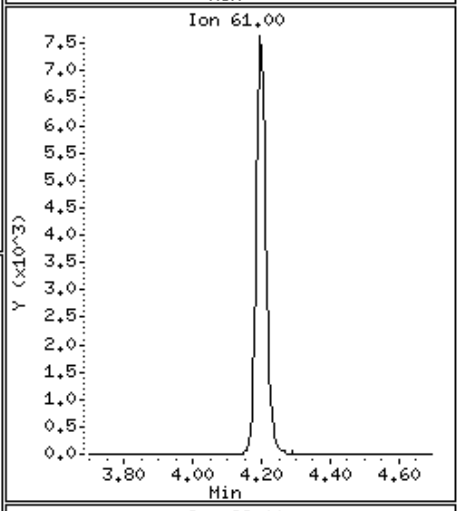
Column phase: DB624 Column diameter: 0.18

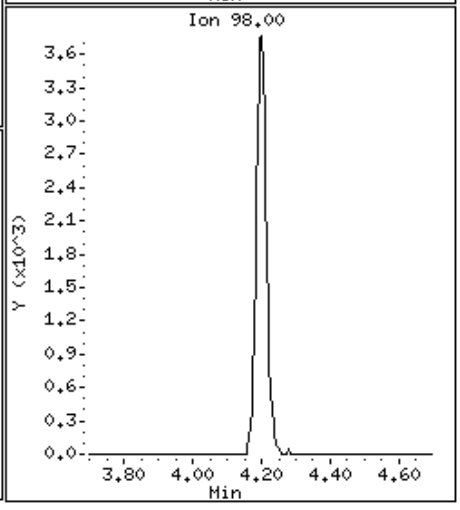
27 cis-1,2-Dichloroethene Concentration: 149.38 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61833.D Page 9

Date : 18-JUN-2024 23:04

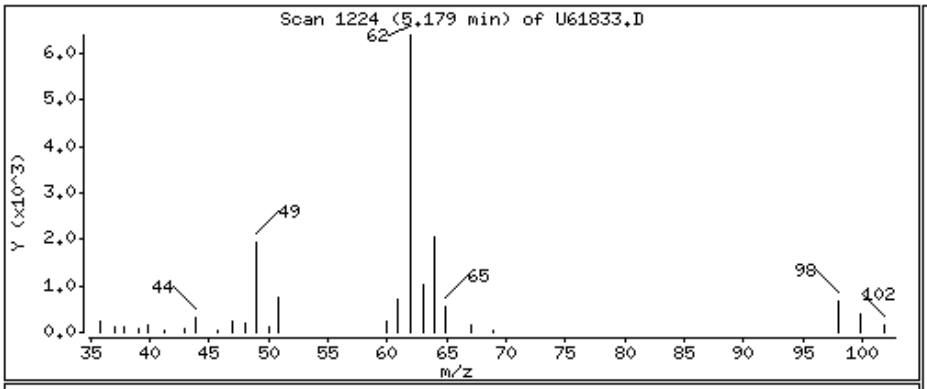
Client ID: Instrument: VOA9.i

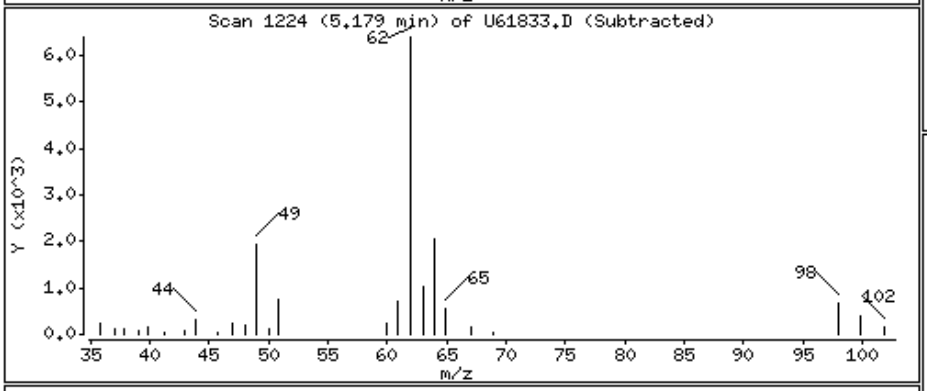
Sample Info: HS24060434-08

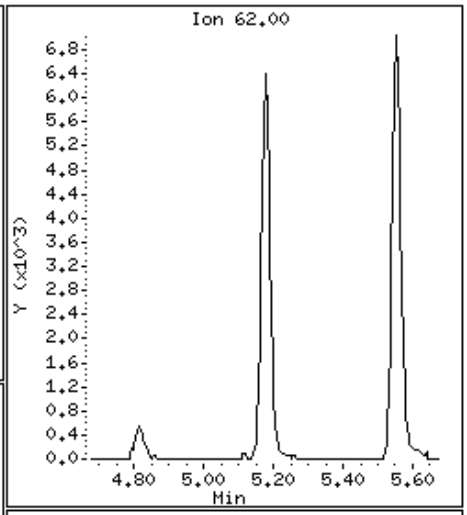
Purge Volume: 5.0 Operator: TS

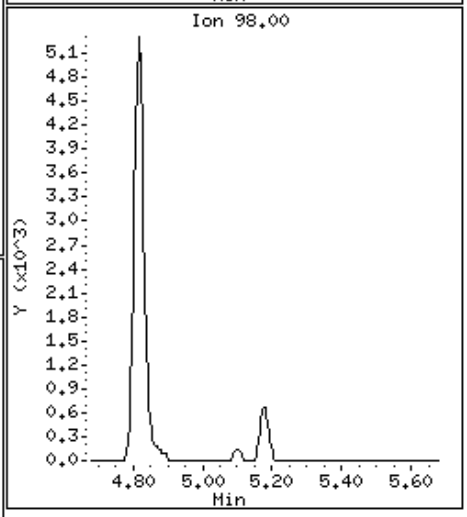
Column phase: DB624 Column diameter: 0.18

33 1,2-Dichloroethane Concentration: 90.21 ug/l









Data File: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61833.D Page 10

Date : 18-JUN-2024 23:04

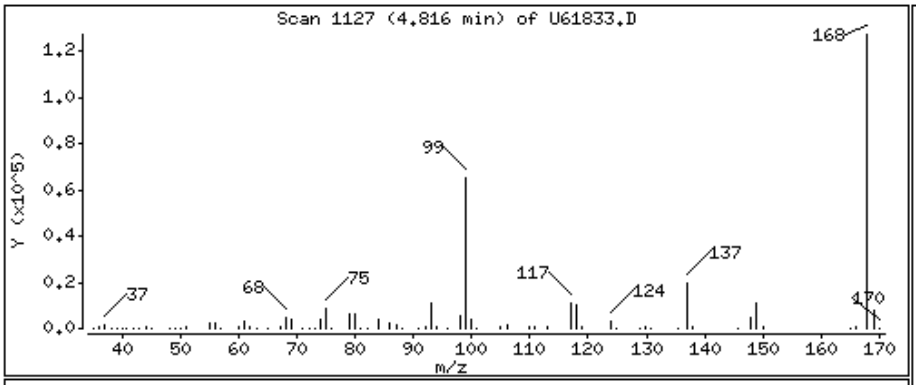
Client ID: Instrument: VOA9.i

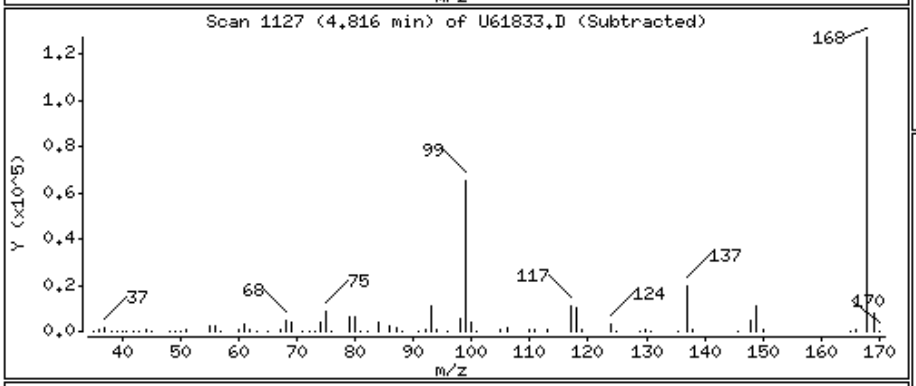
Sample Info: HS24060434-08

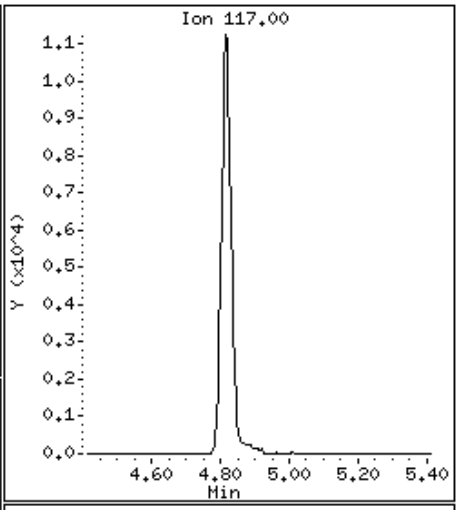
Purge Volume: 5.0 Operator: TS

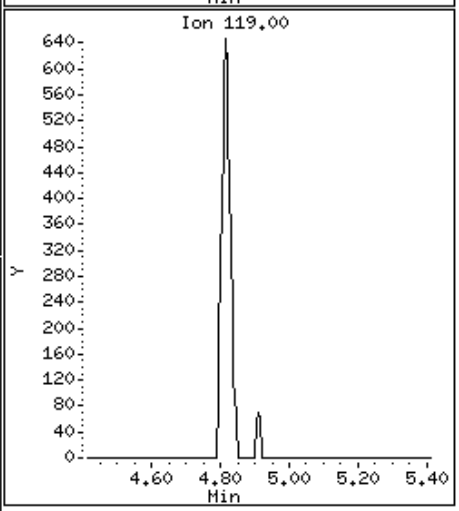
Column phase: DB624 Column diameter: 0.18

34 Carbon Tetrachloride Concentration: 276.31 ug/l









Data File: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61833.D Page 11

Date : 18-JUN-2024 23:04

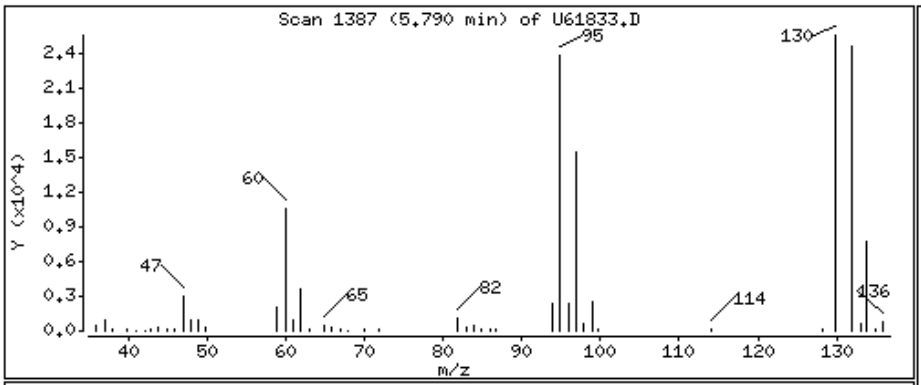
Client ID: Instrument: VOA9.i

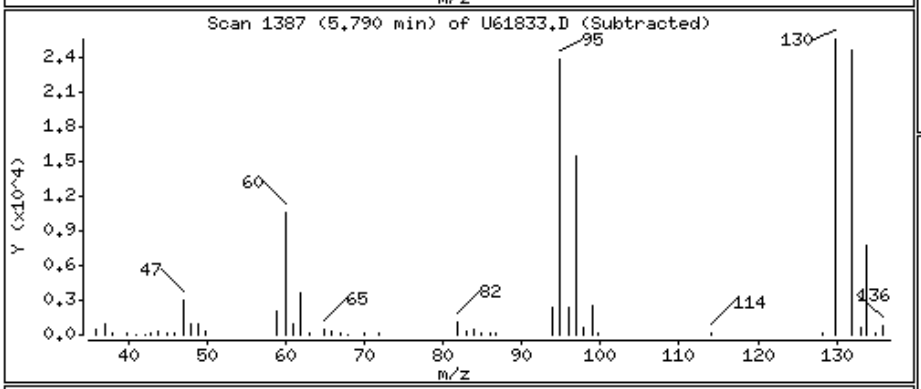
Sample Info: HS24060434-08

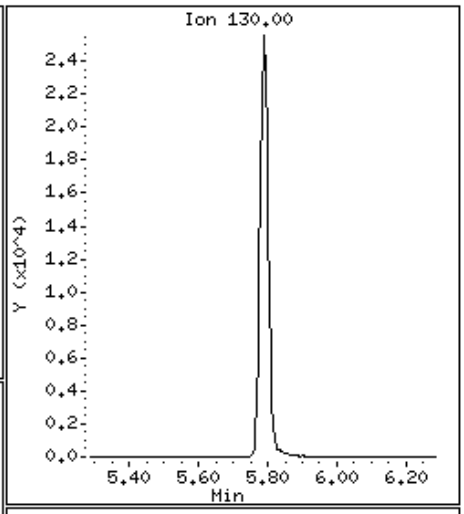
Purge Volume: 5.0 Operator: TS

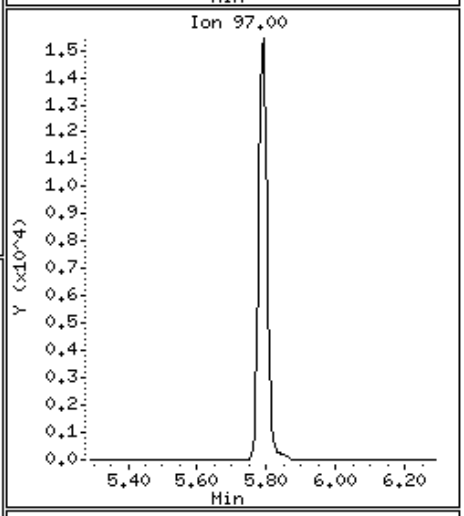
Column phase: DB624 Column diameter: 0.18

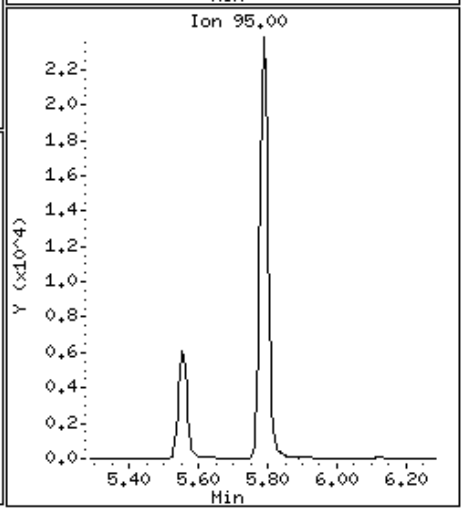
38 Trichloroethene Concentration: 606.42 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61833.D

Date : 18-JUN-2024 23:04

Client ID:

Instrument: VOA9.i

Sample Info: HS24060434-08

Purge Volume: 5.0

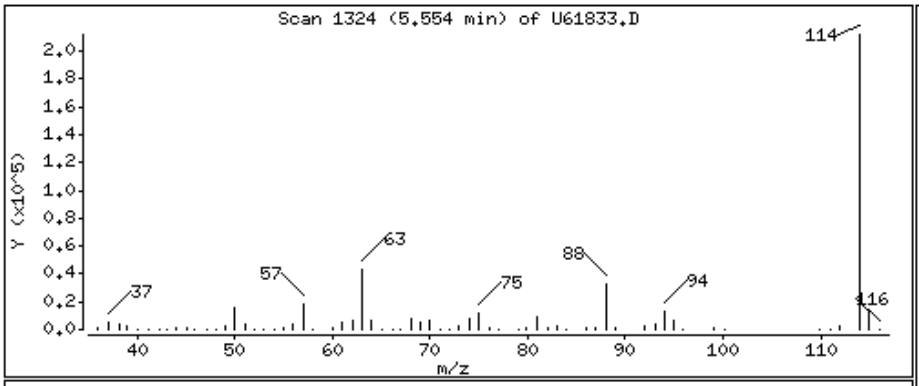
Operator: TS

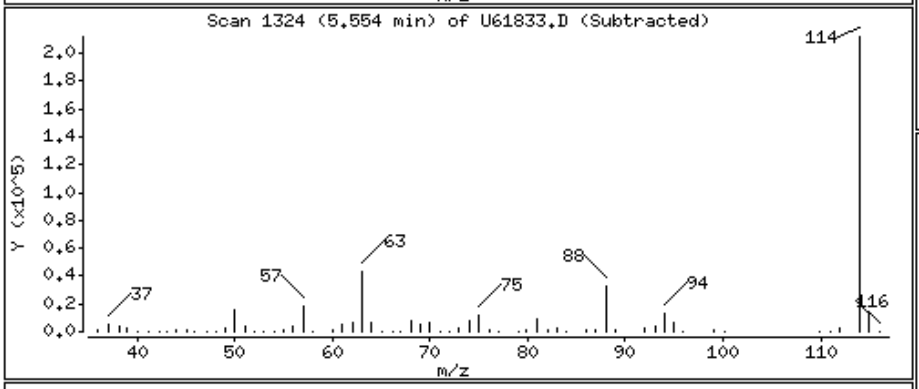
Column phase: DB624

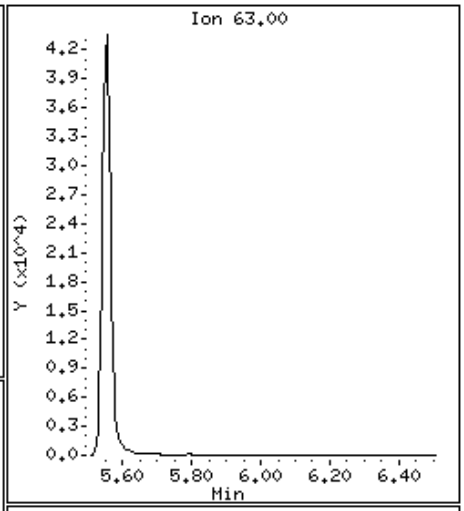
Column diameter: 0.18

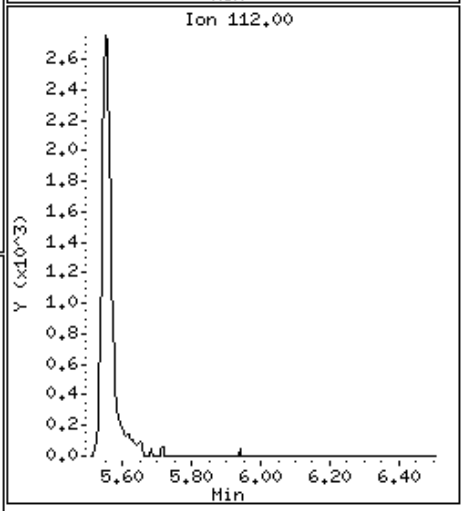
42 1,2-Dichloropropane

Concentration: 1047.14 ug/l









Data File: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61833.D

Date : 18-JUN-2024 23:04

Client ID:

Instrument: VOA9.i

Sample Info: HS24060434-08

Purge Volume: 5.0

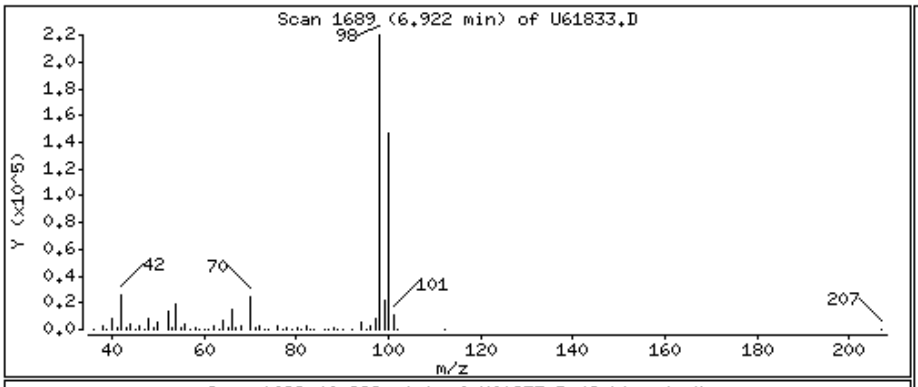
Operator: TS

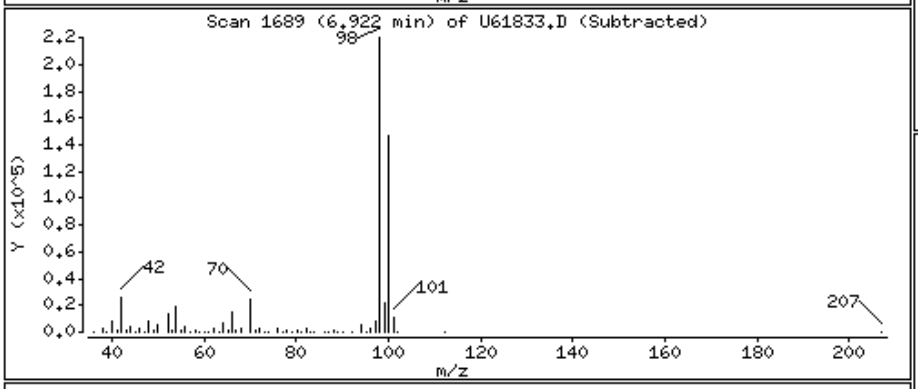
Column phase: DB624

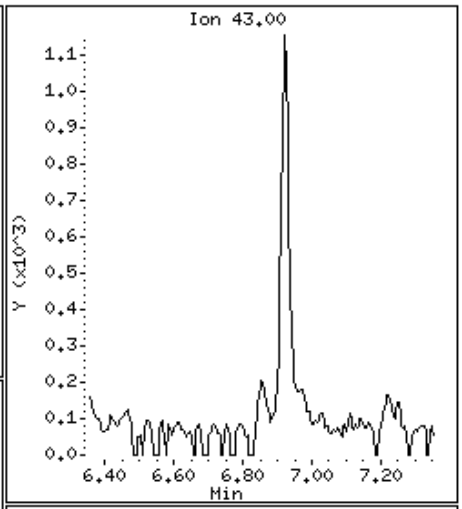
Column diameter: 0.18

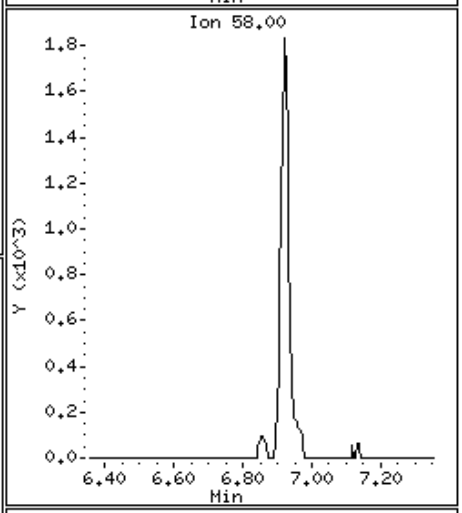
45 4-Methyl-2-Pentanone

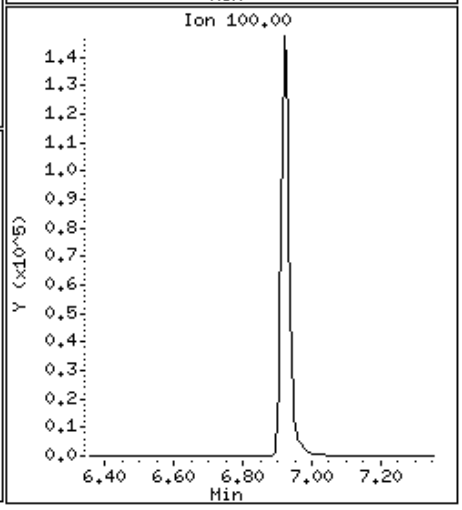
Concentration: 29.94 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61833.D Page 14

Date : 18-JUN-2024 23:04

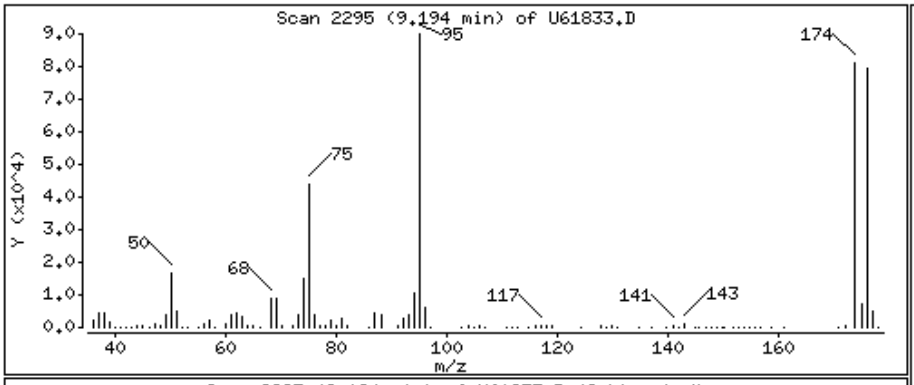
Client ID: Instrument: VOA9.i

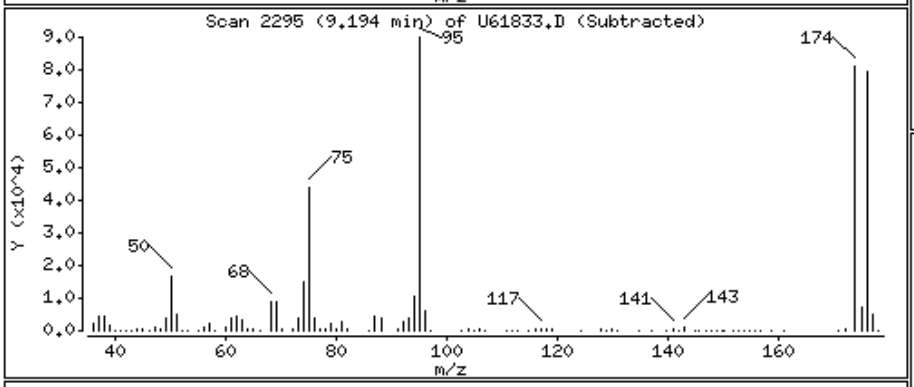
Sample Info: HS24060434-08

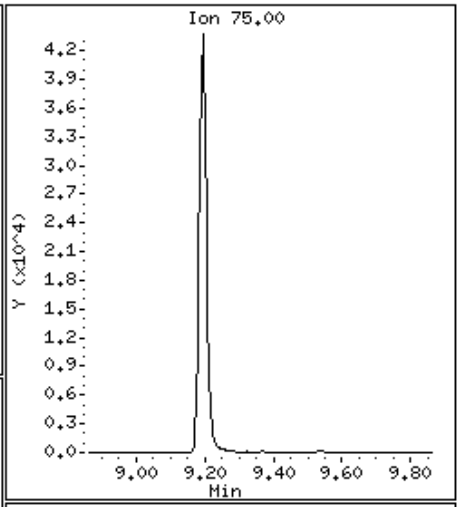
Purge Volume: 5.0 Operator: TS

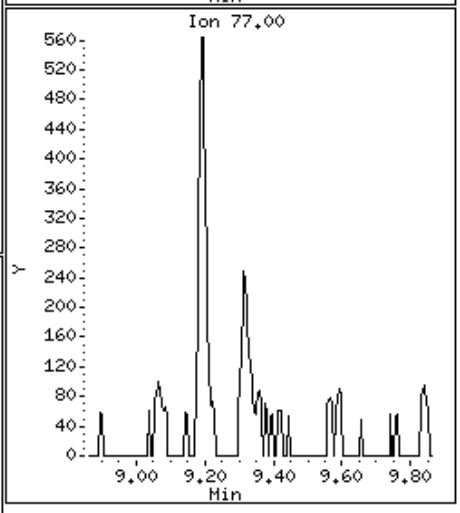
Column phase: DB624 Column diameter: 0.18

71 1,2,3-Trichloropropane Concentration: 807.41 ug/l









Data File: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61833.D

Date : 18-JUN-2024 23:04

Client ID:

Instrument: VOA9.i

Sample Info: HS24060434-08

Purge Volume: 5.0

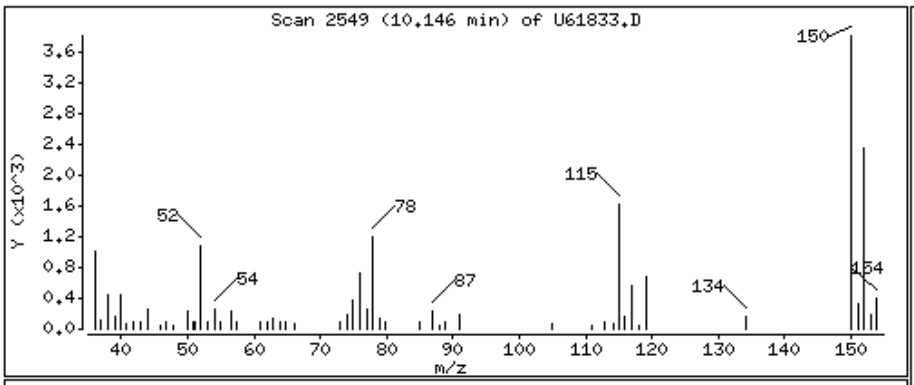
Operator: TS

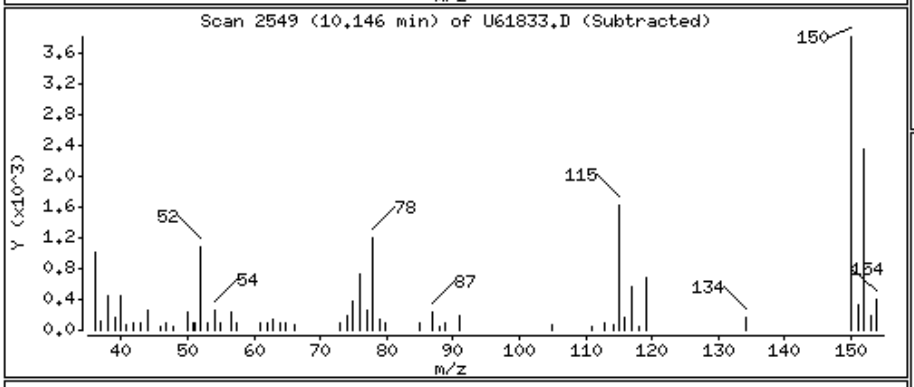
Column phase: DB624

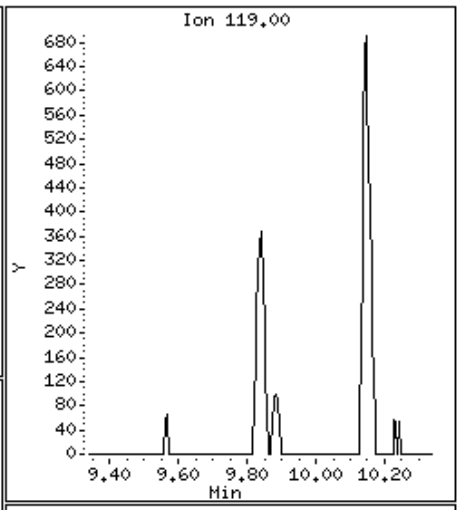
Column diameter: 0.18

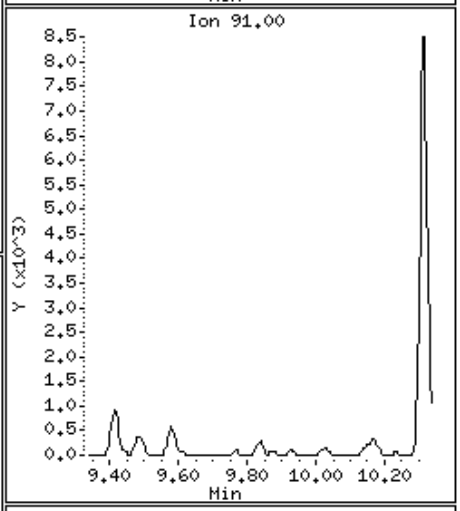
78 tert-Butylbenzene

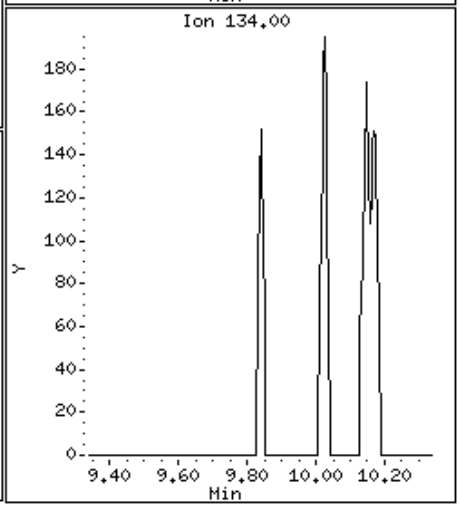
Concentration: 5.26 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61833.D

Date : 18-JUN-2024 23:04

Client ID:

Instrument: VOA9.i

Sample Info: HS24060434-08

Purge Volume: 5.0

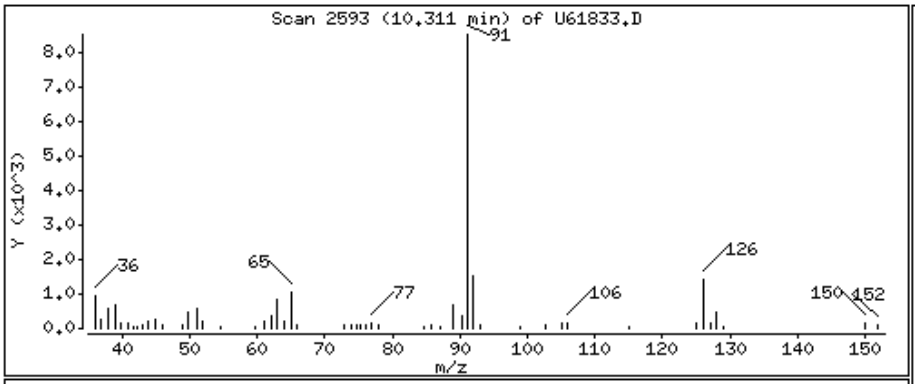
Operator: TS

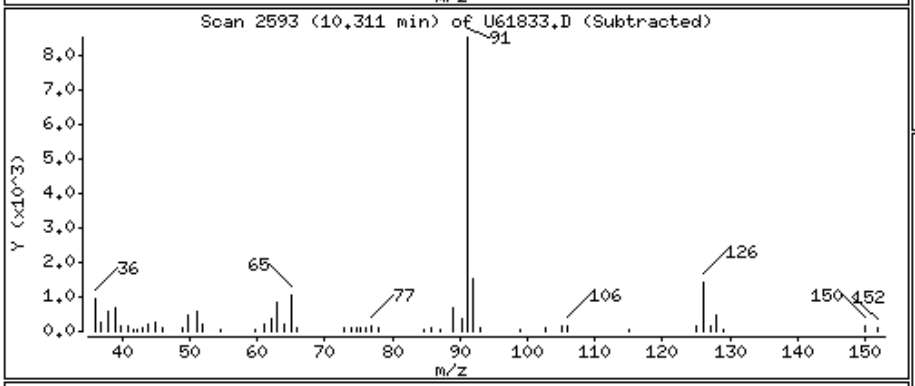
Column phase: DB624

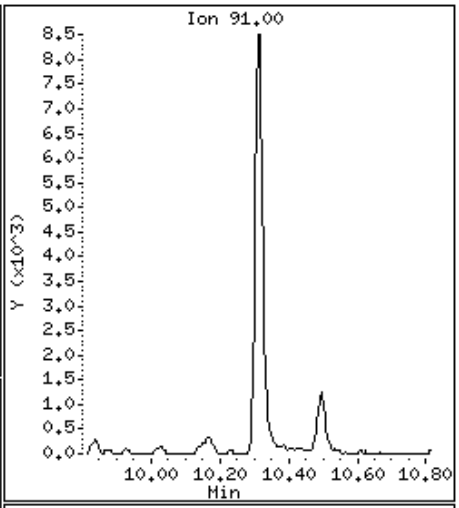
Column diameter: 0.18

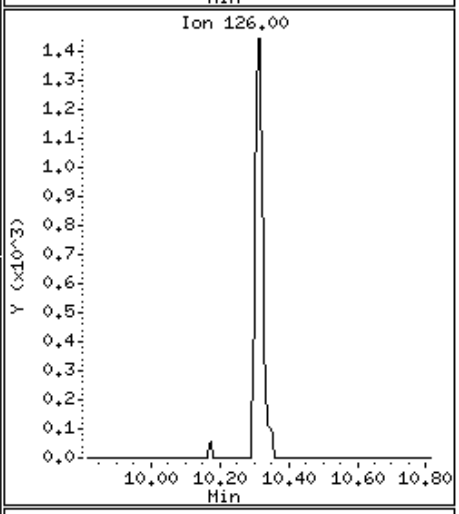
86 Benzyl Chloride

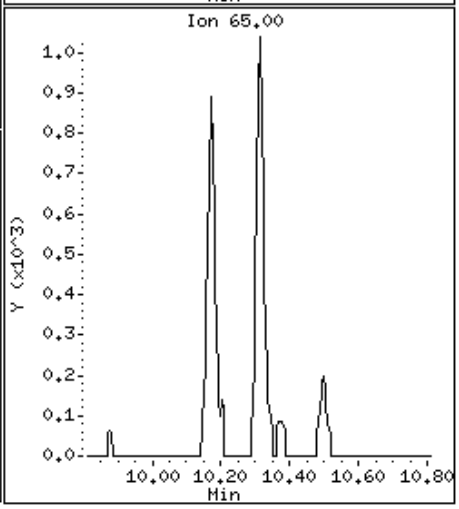
Concentration: 80.55 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61833.D

Date : 18-JUN-2024 23:04

Client ID:

Instrument: VOA9.i

Sample Info: HS24060434-08

Purge Volume: 5.0

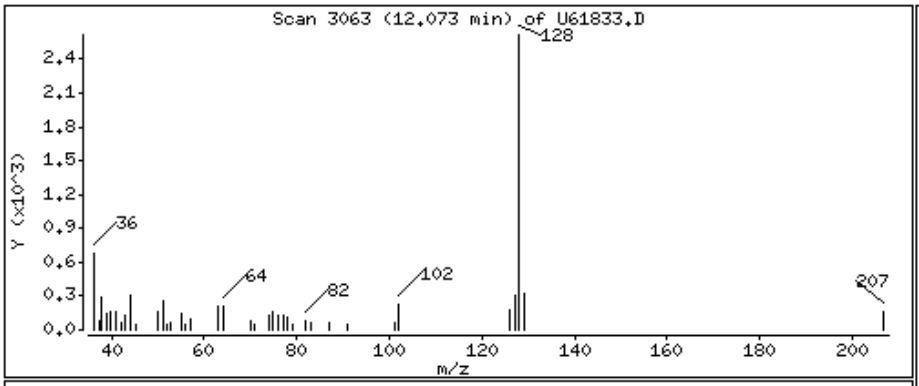
Operator: TS

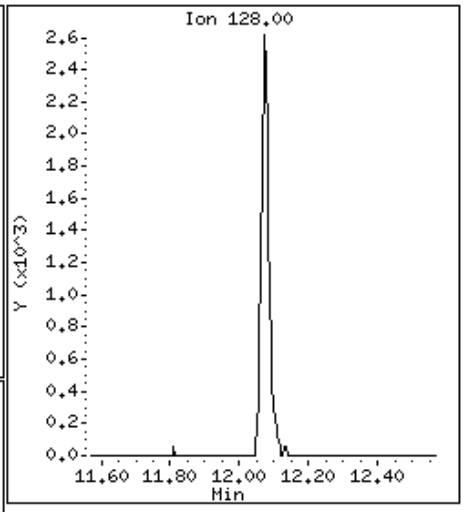
Column phase: DB624

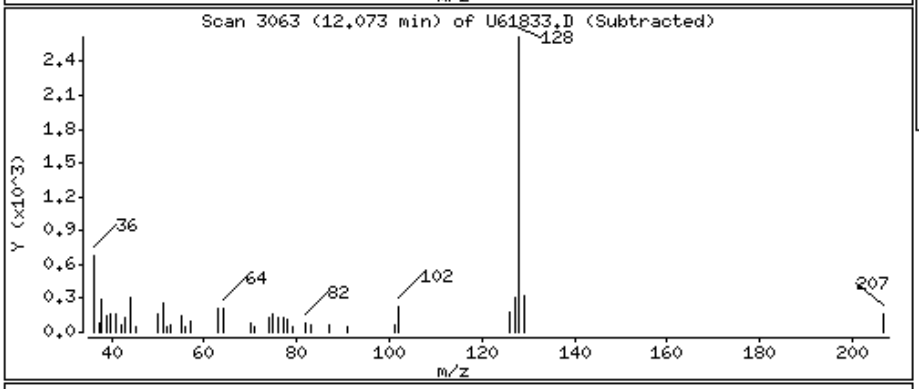
Column diameter: 0.18

92 Naphthalene

Concentration: 32.20 ug/l







Data File: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61833.D

Date : 18-JUN-2024 23:04

Client ID:

Instrument: VOA9.i

Sample Info: HS24060434-08

Purge Volume: 5.0

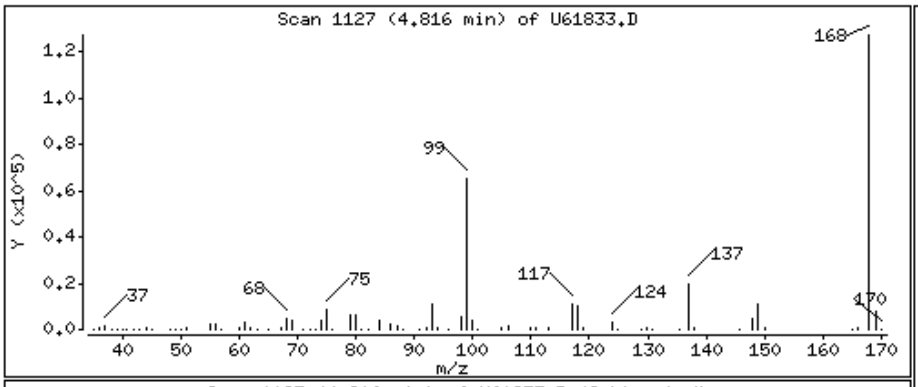
Operator: TS

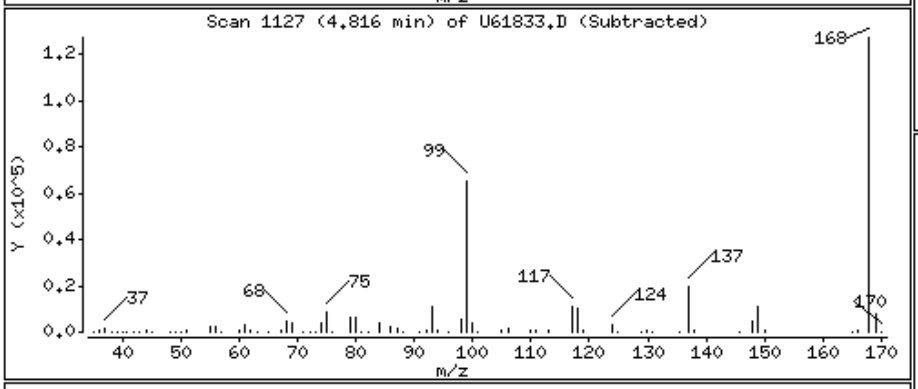
Column phase: DB624

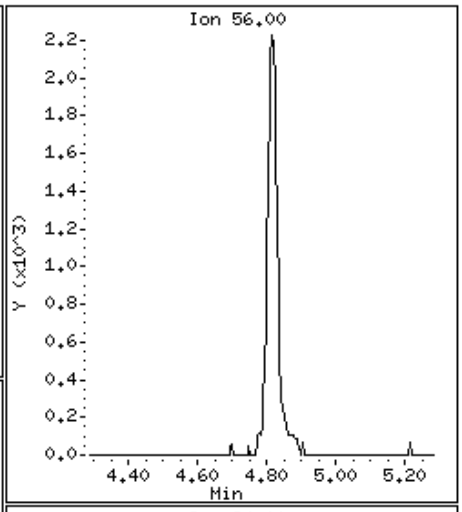
Column diameter: 0.18

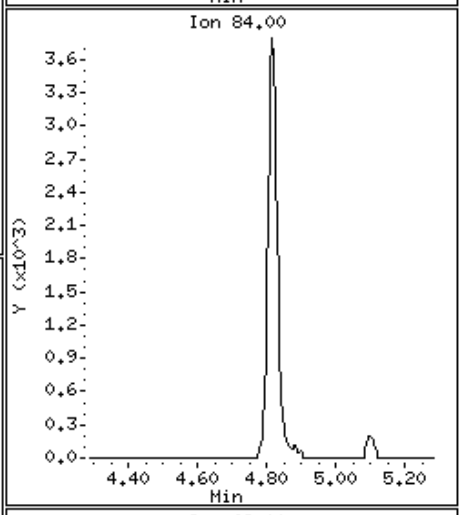
141 Cyclohexane

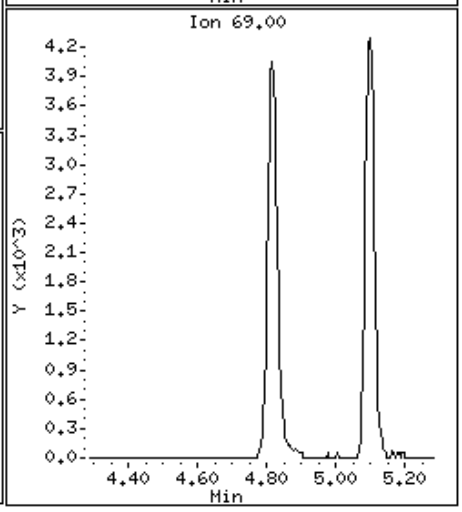
Concentration: 3.82 ug/l











Data File: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61833.D

Date : 18-JUN-2024 23:04

Client ID:

Instrument: VOA9.i

Sample Info: HS24060434-08

Purge Volume: 5.0

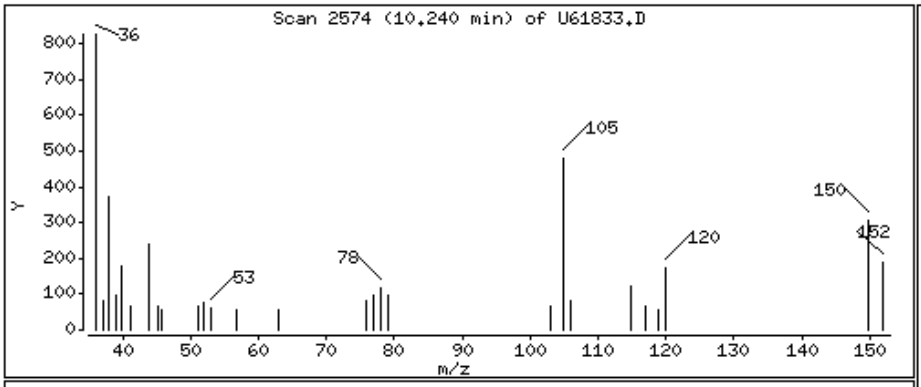
Operator: TS

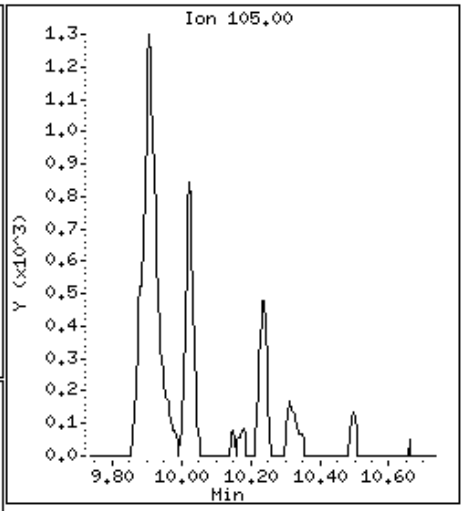
Column phase: DB624

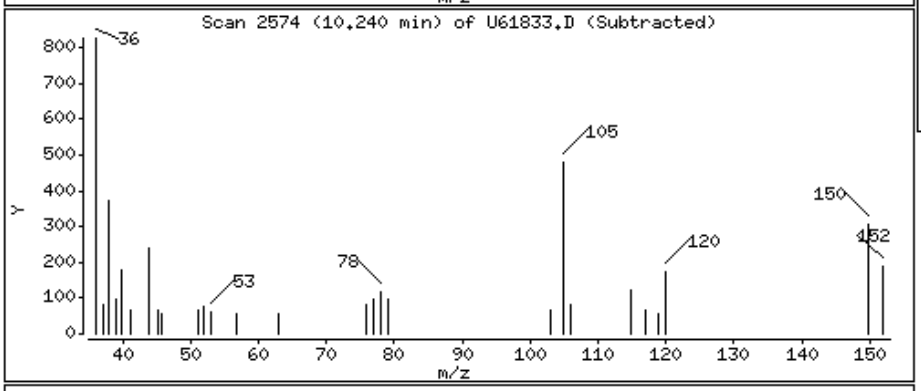
Column diameter: 0.18

166 1,2,3-Trimethylbenzene

Concentration: 13.29 ug/l







Data File: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61833.D

Date : 18-JUN-2024 23:04

Client ID:

Instrument: VOA9.i

Sample Info: HS24060434-08

Purge Volume: 5.0

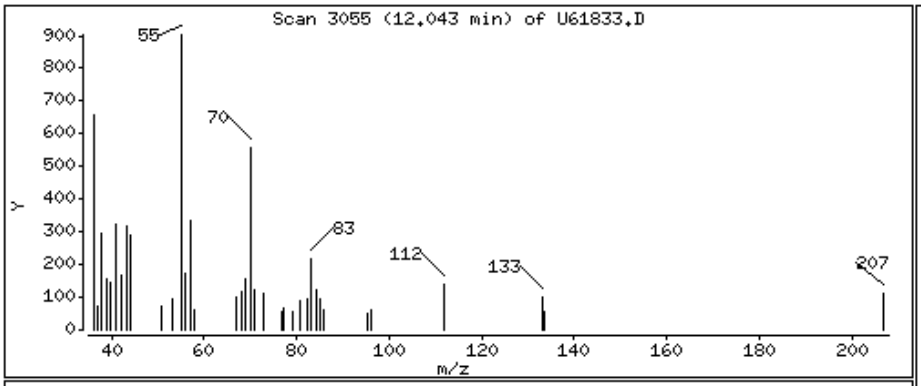
Operator: TS

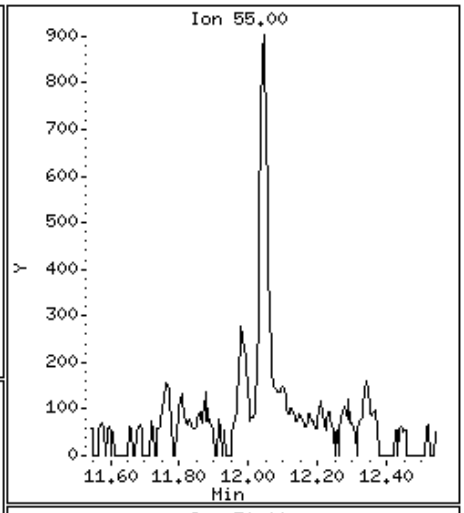
Column phase: DB624

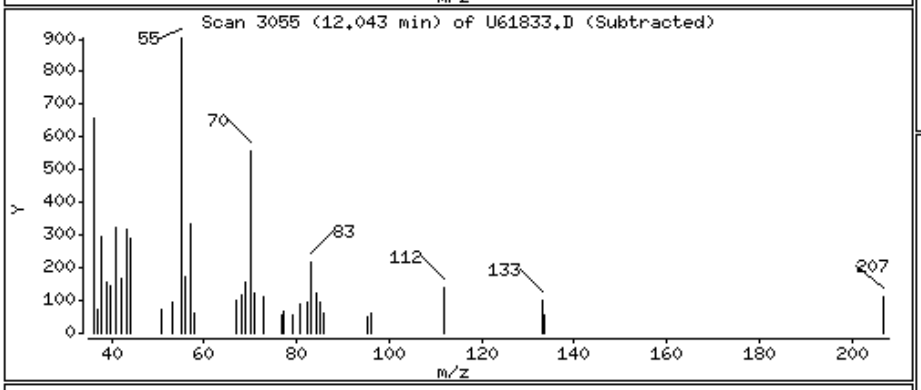
Column diameter: 0.18

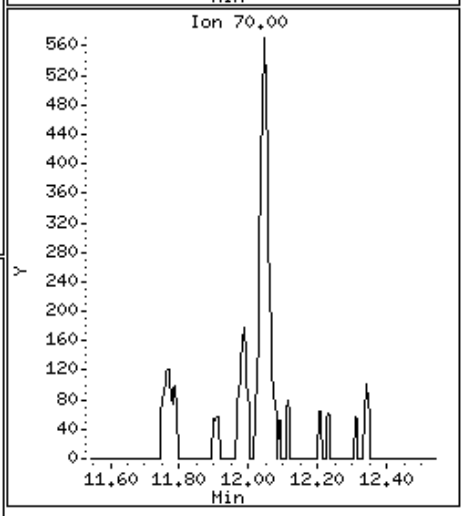
203 2-Ethylhexyl Acrylate

Concentration: 31.57 ug/l









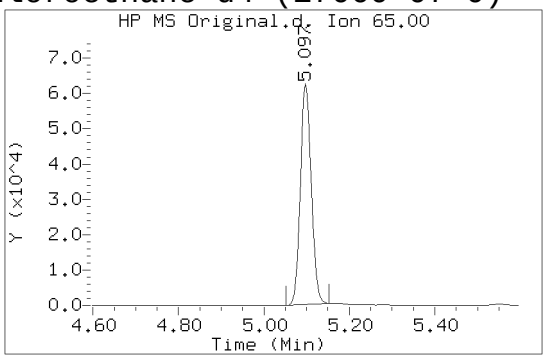
Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61833.D
Inj Date : 18-JUN-2024 23:04
InstruID : VOA9.i
LabSampID : HS24060434-08

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

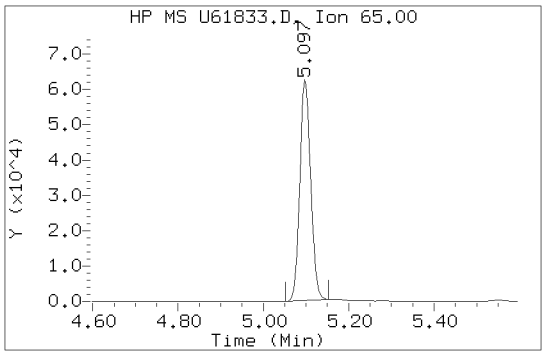
BEFORE

MASS
65
AREA
112185
HEIGHT
62484
15-Jul-2024
13:05
s
zaid



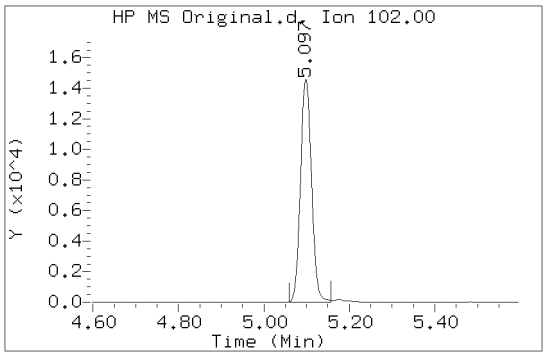
AFTER

MASS
65
AREA
112185
HEIGHT
62484
15-Jul-2024
13:05
s
zaid



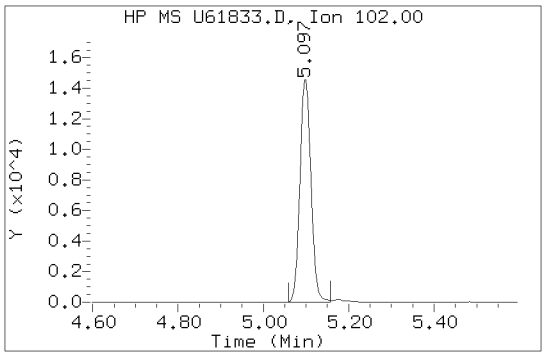
BEFORE

MASS
102
AREA
26734
HEIGHT
14540
15-Jul-2024
13:05
s
zaid



AFTER

MASS
102
AREA
26734
HEIGHT
14540
15-Jul-2024
13:05
s
zaid



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61843.D Page 1
Report Date: 15-Jul-2024 11:56

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61843.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 19-JUN-2024 02:47
Operator : TS Inst ID: VOA9.i
Smp Info : VSTD050;VSTD050;2;;CCV
Misc Info : V9;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240618.b\8260C.m
Meth Date : 15-Jul-2024 11:56 VOA9.i Quant Type: ISTD
Cal Date : 18-JUN-2024 14:47 Cal File: U61811.D
Als bottle: 41 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7014

Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.819	4.819	(1.000)	263777	50.0000	
2 Dichlorodifluoromethane	85	1.168	1.168	(0.242)	65860	50.0000	47.97
3 Chloromethane	50	1.303	1.303	(0.270)	175486	50.0000	42.71
4 Propionitrile	54	4.339	4.339	(0.900)	126007	500.000	550.86
5 Vinyl Chloride	62	1.382	1.382	(0.287)	95941	50.0000	47.28
6 Bromomethane	94	1.618	1.618	(0.336)	45164	50.0000	65.48
7 Chloroethane	64	1.704	1.704	(0.354)	66585	50.0000	47.48
8 Trichlorofluoromethane	101	1.899	1.899	(0.394)	114783	50.0000	46.95
9 Acrolein	56	2.270	2.270	(0.471)	9554	100.000	116.45
10 Acetone	43	2.412	2.412	(0.501)	67306	100.000	108.73
11 1,1-Dichloroethene	96	2.334	2.334	(0.484)	67433	50.0000	46.02
12 Isobutyl Alcohol	43	5.284	5.284	(1.096)	251788	1000.00	1046.45
13 Acetonitrile	39	2.675	2.675	(0.555)	99838	500.000	507.14
14 Allyl Chloride	41	2.675	2.675	(0.555)	232296	50.0000	51.26
15 Iodomethane	142	2.469	2.469	(0.512)	52891	100.000	193.46
16 Acrylonitrile	53	3.068	3.068	(0.637)	63696	100.000	104.65
17 Methylene Chloride	84	2.799	2.799	(0.581)	88750	50.0000	47.72
18 Methyl tert-butyl ether	73	3.083	3.083	(0.640)	220932	50.0000	50.99
19 Carbon Disulfide	76	2.521	2.521	(0.523)	370605	100.000	86.32
20 trans-1,2-Dichloroethene	96	3.061	3.061	(0.635)	75132	50.0000	46.14

21 Vinyl Acetate	43	4.343	4.343 (0.901)	92280	100.000	107.14
22 1,1-Dichloroethane	63	3.515	3.515 (0.729)	143820	50.0000	47.51

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61843.D Page 2
Report Date: 15-Jul-2024 11:56

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	23 Chloroprene	53	3.608	3.608	(0.749)	119092	50.0000	44.67
	24 2-Butanone	43	4.264	4.264	(0.885)	88443	100.000	106.02
	25 Methacrylonitrile	41	4.497	4.497	(0.933)	51569	50.0000	49.65(a)
	26 2,2-Dichloropropane	77	4.182	4.182	(0.868)	88348	50.0000	37.91
	27 cis-1,2-Dichloroethene	96	4.197	4.197	(0.871)	92165	50.0000	48.92
	28 Chloroform	83	4.575	4.575	(0.949)	147791	50.0000	47.67
	29 Bromochloromethane	128	4.470	4.470	(0.928)	45537	50.0000	47.88
$	30 Dibromofluoromethane	113	4.748	4.748	(0.985)	98484	50.0000	58.69
	31 1,1,1-Trichloroethane	97	4.744	4.744	(0.984)	114678	50.0000	45.63
	32 1,1-Dichloropropene	75	4.924	4.924	(0.887)	106060	50.0000	42.65
	33 1,2-Dichloroethane	62	5.175	5.175	(0.932)	118911	50.0000	50.62
	34 Carbon Tetrachloride	117	4.913	4.913	(0.885)	91576	50.0000	43.84
$	35 1,2-Dichloroethane-d4	65	5.096	5.096	(1.058)	115042	50.0000	57.42
*	36 1,4-Difluorobenzene	114	5.554	5.554	(1.000)	383494	50.0000	
	37 Benzene	78	5.138	5.138	(0.925)	336226	50.0000	47.40
	38 Trichloroethene	130	5.786	5.786	(1.042)	86221	50.0000	47.08
	39 Bromodichloromethane	83	6.277	6.277	(1.130)	100049	50.0000	45.78
	40 Methyl Methacrylate	41	5.824	5.824	(1.208)	34748	50.0000	56.54
	41 2-Chloroethylvinyl ether	63	6.577	6.577	(1.184)	3604	100.000	73.60
	42 1,2-Dichloropropane	63	6.007	6.007	(1.082)	89814	50.0000	48.13
	43 2-Nitropropane	43	6.506	6.506	(1.350)	21766	50.0000	50.73
	44 Dibromomethane	93	6.120	6.120	(1.102)	54138	50.0000	48.50
	45 4-Methyl-2-Pentanone	43	6.855	6.855	(0.837)	201119	100.000	111.63
	46 cis-1,3-Dichloropropene	75	6.690	6.690	(1.204)	121704	50.0000	44.08
*	47 Chlorobenzene-d5	117	8.185	8.185	(1.000)	358926	50.0000	
$	48 Toluene-d8	98	6.922	6.922	(0.846)	384876	50.0000	61.99
	49 Ethyl Methacrylate	69	7.289	7.289	(1.312)	130725	50.0000	57.39
	50 Toluene	91	6.982	6.982	(0.853)	359274	50.0000	47.47
	51 trans-1,3-Dichloropropene	75	7.196	7.196	(1.296)	102781	50.0000	45.87
	52 2-Hexanone	43	7.218	7.218	(0.882)	256222	100.000	160.51
	53 1,1,2-Trichloroethane	83	7.357	7.357	(0.899)	69190	50.0000	51.22
	54 1,3-Dichloropropane	76	7.499	7.499	(0.916)	144890	50.0000	48.07
	55 Dibromochloromethane	129	7.691	7.691	(0.940)	78794	50.0000	45.14
	56 Tetrachloroethene	164	7.458	7.458	(0.911)	67611	50.0000	44.01
	57 1,2-Dibromoethane	107	7.784	7.784	(0.951)	80829	50.0000	49.09
	58 1-Chlorohexane	55	8.197	8.197	(1.476)	65413	50.0000	47.16
	59 Chlorobenzene	112	8.212	8.212	(1.003)	231634	50.0000	47.10
	60 1,1,1,2-Tetrachloroethane	131	8.283	8.283	(1.012)	80828	50.0000	46.25
	61 Ethylbenzene	106	8.309	8.309	(1.015)	116174	50.0000	47.23
	62 m,p-Xylenes	106	8.410	8.410	(1.027)	294111	100.000	99.61
	63 o-Xylene	106	8.748	8.748	(1.069)	146311	50.0000	50.46
	64 Styrene	104	8.763	8.763	(1.071)	247058	50.0000	49.84
	66 Bromoform	173	8.920	8.920	(1.090)	49834	50.0000	44.88
	67 Isopropylbenzene	105	9.063	9.063	(1.107)	362677	50.0000	47.64
	68 1,1,2,2-Tetrachloroethane	83	9.329	9.329	(0.917)	114008	50.0000	50.29
$	69 4-Bromofluorobenzene	95	9.194	9.194	(1.123)	146917	50.0000	61.83
*	70 1,4-Dichlorobenzene-d4	152	10.172	10.172	(1.000)	199846	50.0000	
	71 1,2,3-Trichloropropane	75	9.362	9.362	(0.920)	113311	50.0000	51.39
	72 trans-1,4-Dichloro-2-butene	53	9.377	9.377	(1.146)	21363	50.0000	44.82
	73 n-Propylbenzene	91	9.411	9.411	(0.925)	404857	50.0000	46.66
	74 Bromobenzene	156	9.317	9.317	(0.916)	101679	50.0000	47.17
	75 1,3,5-Trimethylbenzene	105	9.565	9.565	(0.940)	295958	50.0000	52.82

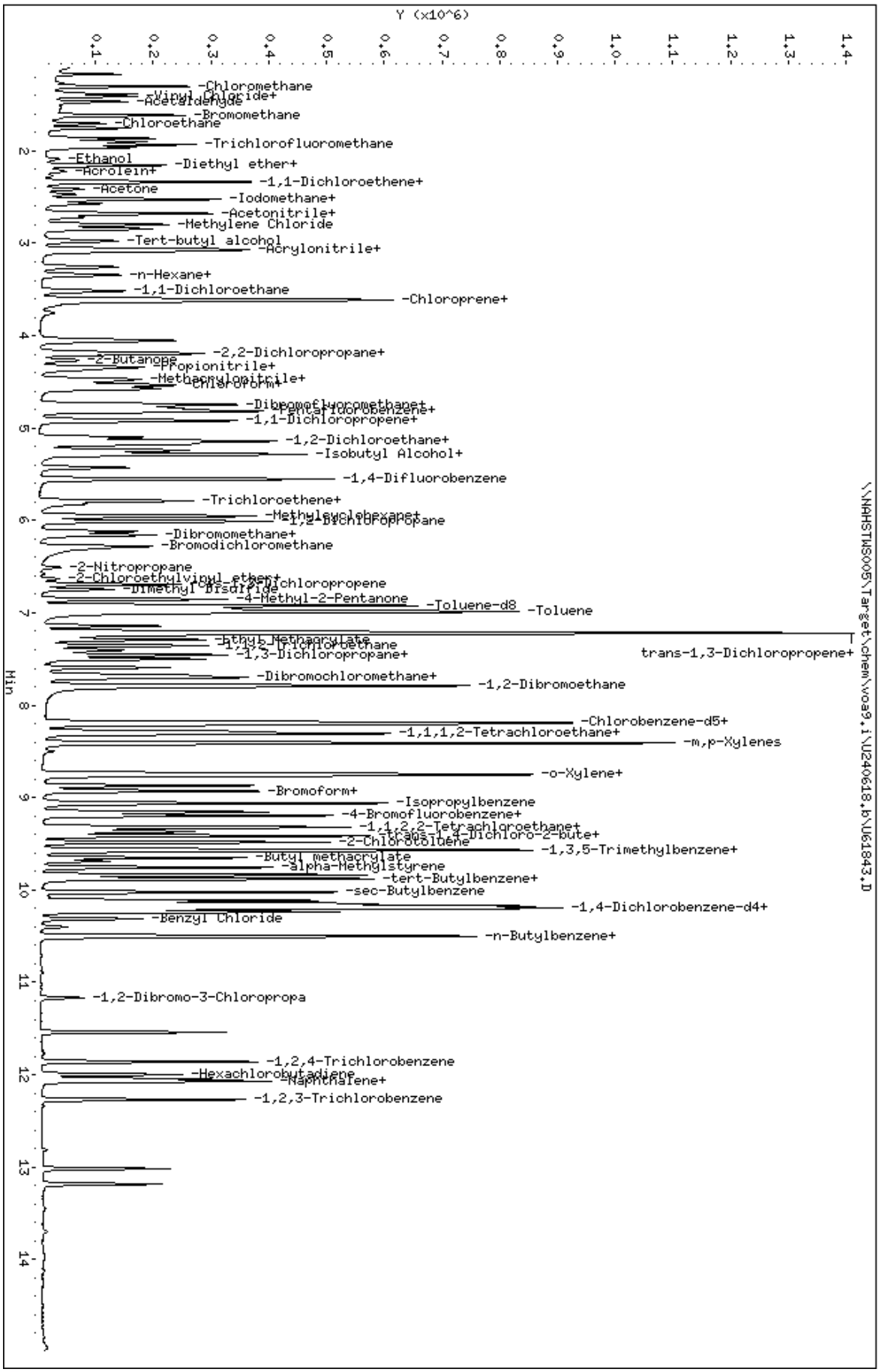
76	2-Chlorotoluene	91	9.482	9.482 (0.932)	260714	50.0000	47.60
77	4-Chlorotoluene	91	9.576	9.576 (0.941)	298403	50.0000	47.59

Data File: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61843.D Page 3
Report Date: 15-Jul-2024 11:56

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.839	9.839	(0.967)	253427	50.0000	47.07
79	1,2,4-Trimethylbenzene	105	9.880	9.880	(0.971)	290608	50.0000	51.41
81	sec-Butylbenzene	105	10.022	10.022	(0.985)	329668	50.0000	46.32
82	p-Isopropyltoluene	119	10.150	10.150	(0.998)	289456	50.0000	48.31
83	1,3-Dichlorobenzene	146	10.116	10.116	(0.994)	180724	50.0000	47.10
84	1,4-Dichlorobenzene	146	10.191	10.191	(1.002)	189208	50.0000	47.45
86	Benzyl Chloride	91	10.315	10.315	(1.260)	116042	50.0000	49.61
87	n-Butylbenzene	91	10.495	10.495	(1.032)	242605	50.0000	44.19
88	1,2-Dichlorobenzene	146	10.506	10.506	(1.033)	176633	50.0000	46.87
89	1,2-Dibromo-3-Chloropropane	155	11.169	11.169	(1.098)	14505	50.0000	51.31
90	1,2,4-Trichlorobenzene	180	11.859	11.859	(1.166)	112404	50.0000	45.04
91	Hexachlorobutadiene	225	12.002	12.002	(1.180)	44695	50.0000	40.76
92	Naphthalene	128	12.069	12.069	(1.186)	273114	50.0000	49.94
93	1,2,3-Trichlorobenzene	180	12.271	12.271	(1.206)	102117	50.0000	45.24
146	Methyl acetate	43	2.716	2.716	(0.564)	67545	50.0000	50.34
138	Freon TF	101	2.337	2.337	(0.485)	63294	50.0000	43.88
141	Cyclohexane	56	4.785	4.785	(0.993)	111708	50.0000	46.09
142	Tetrahydrofuran	42	4.542	4.542	(0.942)	35107	100.000	116.53
147	Methylcyclohexane	55	5.947	5.947	(1.071)	202237	50.0000	47.98
135	1,4-Dioxane	88	6.169	6.169	(1.280)	22853	1000.00	1106.91
132	n-Butanol	56	5.824	5.824	(1.208)	49621	1000.00	1124.56
136	n-Hexane	57	3.342	3.342	(0.694)	66516	50.0000	38.35
139	Diethyl ether	59	2.150	2.150	(0.446)	65084	50.0000	51.64
148	Tert-butyl alcohol	59	2.975	2.975	(0.617)	158638	1000.00	1159.03
149	Isopropyl alcohol	45	2.570	2.570	(0.533)	120018	1000.00	1114.73
156	Diisopropyl ether	45	3.623	3.623	(0.752)	284217	50.0000	51.03
162	Butyl acrylate	55	8.733	8.733	(1.067)	161090	50.0000	54.87
164	Dicyclopentadiene	66	10.202	10.202	(1.003)	376117	50.0000	51.73
166	1,2,3-Trimethylbenzene	105	10.236	10.236	(1.006)	269050	50.0000	53.66
167	Ethanol	45	2.090	2.090	(0.434)	23420	1000.00	1073.11
172	tert-Butyl formate	59	5.243	5.243	(1.088)	167448	100.000	123.87
151	4-Methyl-2-pentanol	45	7.218	7.218	(1.300)	998323	1000.00	1532.23
140	1,3-Butadiene	54	1.408	1.408	(0.292)	41717	50.0000	46.70
182	Epichlorohydrin	57	6.630	6.630	(1.194)	10193	200.000	171.24
M 94	1,2-Dichloroethylene (total)	96				167297	100.000	(a)
145	alpha-Methylstyrene	118	9.756	9.756	(0.959)	111096	50.0000	50.19
131	Methyl Acrylate	55	4.369	4.369	(0.907)	100399	50.0000	53.34
189	n-Butyl acetate	43	7.706	7.706	(0.941)	150403	50.0000	56.70
134	Cyclohexanone	55	9.156	9.156	(0.900)	154452	1000.00	1253.20
185	Isoprene	39	2.157	2.157	(0.448)	18841	50.0000	47.61
188	Isopropyl acetate	43	5.284	5.284	(0.951)	251842	50.0000	53.65
150	Allyl alcohol	57	3.342	3.342	(0.694)	66516	1000.00	767.02
194	Acetaldehyde	44	1.468	1.468	(0.305)	143477	200.000	395.01
200	Dimethyl Disulfide	94	6.746	6.746	(0.824)	49391	50.0000	41.26
133	Ethyl Acrylate	55	5.947	5.947	(1.234)	202237	50.0000	47.33
163	Butyl methacrylate	41	9.651	9.651	(0.949)	92212	50.0000	51.86
159	Propylene oxide	43	2.206	2.206	(0.458)	8846	100.000	80.65
203	2-Ethylhexyl Acrylate	55	12.043	12.043	(1.184)	88659	50.0000	45.78
204	Tetrahydrothiophene	60	7.672	7.672	(0.937)	93013	50.0000	50.42(A)
205	sec-Butyl Ether	57	7.218	7.218	(0.882)	139151	50.0000	40.16(A)
187	n-Amyl acetate	43	8.931	8.931	(1.091)	160234	50.0000	56.93

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
exceeded maximum amount.



Data File: \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61843.D
Date : 19-JUN-2024 02:47
Client ID: VSTD050
Sample Info: VSTD050;VSTD050;2;;CCV
Purge Volume: 5.0
Column phase: DB624

Instrument: VOA9.i
Operator: TS
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa9.i\U240618.b\U61843.D
Inj Date : 19-JUN-2024 02:47
InstruID : VOA9.i
LabSampID : VSTD050

NO MANUAL INTEGRATIONS

HS24060434 - ME - HG_W_DODICP_W_DOD

ALS WO# HS24060434

ALS Houston, US

Date: 12-Jul-24

Form 11 - INTERNAL STANDARD ASSOCIATION

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060434

Instrument:ICPMS05

Mass	Analyte	Assoc Int Standard 1	Assoc Int Standard 2	Mode
9	Beryllium	Lithium		Ar
11	Boron	Lithium		Ar
23	Sodium	Germanium		ArHe
24	Magnesium	Germanium		ArHe
27	Aluminum	Germanium		ArHe
39	Potassium	Germanium		ArHe
44	Calcium	Germanium		Ar
47	Titanium	Germanium		Ar
51	Vanadium	Germanium		ArHe
52	Chromium	Germanium		ArHe
55	Manganese	Germanium		ArHe
56	Iron	Germanium		ArHe
59	Cobalt	Germanium		ArHe
60	Nickel	Germanium		ArHe
63	Copper	Germanium		ArHe
66	Zinc	Germanium		ArHe
75	Arsenic	Germanium		ArHe
82	Selenium	Germanium		Ar
88	Strontium	Indium		Ar
95	Molybdenum	Indium		Ar
105	Palladium	Germanium		Ar
107	Silver	Indium		Ar
114	Cadmium	Indium		Ar
118	Tin	Indium		Ar
121	Antimony	Germanium		ArHe
137	Barium	Indium		Ar
205	Thallium	Bismuth		Ar
208	Lead	Bismuth		Ar

ALS Houston, US Date: 12-Jul-24

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060434
Start Date: 18-Jun-2024 End Date: 18-Jun-2024

Run ID:HG04_469750
Instrument:HG04
Method:SW7470A

Sample No.	D/F	Time	FileID	Analytes
ICV	1	18-Jun-2024 11:01	HG04_469750 Raw Data_8083325	HG
ICB	1	18-Jun-2024 11:02	_8083326	HG
CRA	1	18-Jun-2024 11:04	_8083327	HG
CCV 1	1	18-Jun-2024 11:08	_8083328	HG
CCB 1	1	18-Jun-2024 11:10	_8083329	HG
CCV 2	1	18-Jun-2024 11:33	_8083340	HG
CCB 2	1	18-Jun-2024 11:35	_8083341	HG
CCV 3	1	18-Jun-2024 11:56	_8083352	HG
CCB 3	1	18-Jun-2024 11:57	_8083353	HG
CCV 4	1	18-Jun-2024 12:22	_8083367	HG
CCB 4	1	18-Jun-2024 12:24	_8083368	HG
CCV 5	1	18-Jun-2024 12:46	_8083379	HG
CCB 5	1	18-Jun-2024 12:47	_8083380	HG
CCV 6	1	18-Jun-2024 13:13	_8083388	HG
CCB 6	1	18-Jun-2024 13:15	_8083389	HG
CCV 7	1	18-Jun-2024 13:34	_8083400	HG
CCB 7	1	18-Jun-2024 13:36	_8083401	HG
CCV 8	1	18-Jun-2024 13:57	_8083415	HG
CCB 8	1	18-Jun-2024 13:59	_8083416	HG
MBLK-213707	1	18-Jun-2024 14:14	_8083423	HG
LCS-213707	1	18-Jun-2024 14:16	_8083424	HG
CCV 9	1	18-Jun-2024 14:21	_8083427	HG
CCB 9	1	18-Jun-2024 14:23	_8083428	HG
18CPTMW01DW_060624	1	18-Jun-2024 14:26	_8083430	HG
18CPTMW01SW_060624	1	18-Jun-2024 14:28	_8083431	HG
102_060624	1	18-Jun-2024 14:30	_8083432	HG
102_060624_a	1	18-Jun-2024 14:31	_8083433	HG
18WW14_060624	1	18-Jun-2024 14:33	_8083434	HG
18WW14_060624MS	1	18-Jun-2024 14:35	_8083435	HG
18WW14_060624MSD	1	18-Jun-2024 14:37	_8083436	HG
CCV 10	1	18-Jun-2024 14:52	_8083437	HG
CCB 10	1	18-Jun-2024 14:53	_8083438	HG
CCV 11	1	18-Jun-2024 15:16	_8083556	HG
CCB 11	1	18-Jun-2024 15:18	_8083557	HG
CCV 12	1	18-Jun-2024 15:40	_8083601	HG
CCB 12	1	18-Jun-2024 15:42	_8083602	HG
CCV 13	1	18-Jun-2024 15:47	_8083605	HG
CCB 13	1	18-Jun-2024 15:49	_8083606	HG

ALS Houston, US

Date: 12-Jul-24

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060434
Start Date: 19-Jun-2024 End Date: 19-Jun-2024

Run ID:ICPMS05_469846
Instrument:ICPMS05
Method:

Sample No.	D/F	Time	FileID	Analytes
ICPMS05_469846_Tune	1	19-Jun-2024 00:00	ICPMS05_469846_Tune_1	
CAL BLK	1	19-Jun-2024 11:45	010CALB.d_8085512	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
2/10/200	1	19-Jun-2024 11:47	011CALS.d_8085513	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
5/25/500	1	19-Jun-2024 11:49	012CALS.d_8085514	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
10/50/1000	1	19-Jun-2024 11:51	013CALS.d_8085515	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
100/500/10K	1	19-Jun-2024 11:53	014CALS.d_8085516	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
200/1000/20K	1	19-Jun-2024 11:55	015CALS.d_8085517	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICV	1	19-Jun-2024 12:01	017_ICV.d_8085519	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLICV2	1	19-Jun-2024 12:05	019LCV2.d_8085521	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LLICV5	1	19-Jun-2024 12:07	020LCV5.d_8085522	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICB	1	19-Jun-2024 12:11	022_ICB.d_8085524	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICSA	1	19-Jun-2024 12:14	023ICSA.d_8085525	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
ICSAB	1	19-Jun-2024 12:16	024ICSB.d_8085526	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCV 1	1	19-Jun-2024 12:25	027_CCV.d_8085602	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
MBLK-213517	1	19-Jun-2024 12:37	033SMPL.d_8085603	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
LCS-213517	1	19-Jun-2024 12:42	035SMPL.d_8085604	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCV 2	1	19-Jun-2024 12:50	039_CCV.d_8085605	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCB 1	1	19-Jun-2024 12:52	040_CCB.d_8085606	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCV 3	1	19-Jun-2024 13:24	052_CCV.d_8085729	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCB 2	1	19-Jun-2024 13:26	053_CCB.d_8085730	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
18WW14_060624	1	19-Jun-2024 13:28	054SMPL.d_8085854	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
18WW14_060624SD	5	19-Jun-2024 13:30	055SMPL.d_8085855	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
18WW14_060624MS	1	19-Jun-2024 13:32	056SMPL.d_8085856	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
18WW14_060624MSD	1	19-Jun-2024 13:34	057SMPL.d_8085857	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
18WW14_060624PDS	1	19-Jun-2024 13:36	058SMPL.d_8085858	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
18CPTMW01DW_060624	1	19-Jun-2024 13:45	062SMPL.d_8085862	AG AL AS BA BE CA CD CO CR CU FE K MG MN NI PB SB SE TL V ZN
CCV 4	1	19-Jun-2024 13:49	064_CCV.d_8085864	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCB 3	1	19-Jun-2024 13:51	065_CCB.d_8085865	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
18CPTMW01SW_060624	1	19-Jun-2024 13:53	066SMPL.d_8085953	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
102_060624	1	19-Jun-2024 13:55	067SMPL.d_8085954	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
102_060624_a	1	19-Jun-2024 13:57	068SMPL.d_8085955	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN

ALS Houston, US Date: 12-Jul-24

FORM 13 - ANALYSIS RUN LOG

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060434
Start Date: 19-Jun-2024 End Date: 19-Jun-2024

Run ID:ICPMS05_469846
Instrument:ICPMS05
Method:

Sample No.	D/F	Time	FileID	Analytes
CCV 5	1	19-Jun-2024 14:14	076_CCV.d_8086036	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCB 4	1	19-Jun-2024 14:16	077_CCB.d_8086037	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
18CPTMW01DW_060624	100	19-Jun-2024 14:20	079SMPL.d_8086039	NA
CCV 6	1	19-Jun-2024 14:33	085_CCV.d_8086082	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN
CCB 5	1	19-Jun-2024 14:35	086_CCB.d_8086083	AG AL AS BA BE CA CD CO CR CU FE K MG MN NA NI PB SB SE TL V ZN

ALS Houston, US Date: 12-Jul-24

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060434

Run ID: HG04_469750
Instrument: HG04
Method: SW7470A

ICV	Date: 18-Jun-2024 11:01		Seq: 8083325	ICV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	5.38	108	90-110	

CCV1	Date: 18-Jun-2024 11:08		Seq: 8083328	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.97	99	90-110	

CCV2	Date: 18-Jun-2024 11:33		Seq: 8083340	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.93	99	90-110	

CCV3	Date: 18-Jun-2024 11:56		Seq: 8083352	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.89	98	90-110	

CCV4	Date: 18-Jun-2024 12:22		Seq: 8083367	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.77	95	90-110	

CCV5	Date: 18-Jun-2024 12:46		Seq: 8083379	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.89	98	90-110	

CCV6	Date: 18-Jun-2024 13:13		Seq: 8083388	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.74	95	90-110	

CCV7	Date: 18-Jun-2024 13:34		Seq: 8083400	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.86	97	90-110	

CCV8	Date: 18-Jun-2024 13:57		Seq: 8083415	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.87	97	90-110	

CCV9	Date: 18-Jun-2024 14:21		Seq: 8083427	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.83	97	90-110	

CCV10	Date: 18-Jun-2024 14:52		Seq: 8083437	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.79	96	90-110	

CCV11	Date: 18-Jun-2024 15:16		Seq: 8083556	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.59	92	90-110	

CCV12	Date: 18-Jun-2024 15:40		Seq: 8083601	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.93	99	90-110	

CCV13	Date: 18-Jun-2024 15:47		Seq: 8083605	CCV	Units: ug/L
Analyte	**True**	**Found**	**%R**	**Control Limits**	**Flag**
Mercury	5	4.92	98	90-110	

ALS Houston, US Date: 12-Jul-24

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060434

Run ID: ICPMS05_469846
Instrument: ICPMS05
Method: SW6020A

ICV Date: 19-Jun-2024 12:01 Seq: 8085519 ICV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	108.618	109	90-110	
Antimony	100	107.761	108	90-110	
Arsenic	100	104.781	105	90-110	
Barium	100	104.659	105	90-110	
Beryllium	100	102.907	103	90-110	
Cadmium	100	106.194	106	90-110	
Calcium	10000	10203.317	102	90-110	
Chromium	100	105.43	105	90-110	
Cobalt	100	106.348	106	90-110	
Copper	100	107.235	107	90-110	
Iron	10000	10436.968	104	90-110	
Lead	100	105.674	106	90-110	
Magnesium	10000	10393.359	104	90-110	
Manganese	100	105.804	106	90-110	
Nickel	100	105.437	105	90-110	
Potassium	10000	10210.301	102	90-110	
Selenium	100	107.523	108	90-110	
Silver	100	102.616	103	90-110	
Sodium	10000	10354.955	104	90-110	
Thallium	100	109.194	109	90-110	
Vanadium	100	106.173	106	90-110	
Zinc	100	104.77	105	90-110	

CCV1 Date: 19-Jun-2024 12:25 Seq: 8085602 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	101.009	101	90-110	
Antimony	100	96.594	97	90-110	
Arsenic	100	97.568	98	90-110	
Barium	100	96.892	97	90-110	
Beryllium	100	94.596	95	90-110	
Cadmium	100	97.295	97	90-110	
Calcium	10000	9959.617	100	90-110	
Chromium	100	98.236	98	90-110	
Cobalt	100	99.347	99	90-110	
Copper	100	99.328	99	90-110	
Iron	10000	10025.145	100	90-110	
Lead	100	98.458	99	90-110	
Magnesium	10000	9932.215	99	90-110	
Manganese	100	99.912	100	90-110	
Nickel	100	99.76	100	90-110	
Potassium	10000	9973.576	100	90-110	
Selenium	100	98.87	99	90-110	
Silver	100	98.394	98	90-110	
Sodium	10000	9903.856	99	90-110	
Thallium	100	98.333	98	90-110	
Vanadium	100	97.212	97	90-110	
Zinc	100	97.917	98	90-110	

CCV2 Date: 19-Jun-2024 12:50 Seq: 8085605 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	96.111	96	90-110	
Antimony	100	98.168	98	90-110	
Arsenic	100	97.837	98	90-110	
Barium	100	99.621	100	90-110	
Beryllium	100	92.92	93	90-110	

ALS Houston, US Date: 12-Jul-24

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060434

Run ID: ICPMS05_469846
Instrument: ICPMS05
Method: SW6020A

CCV2	Date: 19-Jun-2024 12:50	Seq: 8085605	CCV	Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Cadmium	100	98.464	99	90-110	
Calcium	10000	9765.04	98	90-110	
Chromium	100	98.608	99	90-110	
Cobalt	100	100.137	100	90-110	
Copper	100	100.104	100	90-110	
Iron	10000	10023.863	100	90-110	
Lead	100	99.615	100	90-110	
Magnesium	10000	9877.545	99	90-110	
Manganese	100	99.505	100	90-110	
Nickel	100	99.411	99	90-110	
Potassium	10000	9868.404	99	90-110	
Selenium	100	96.736	97	90-110	
Silver	100	98.163	98	90-110	
Sodium	10000	9858.5	99	90-110	
Thallium	100	98.817	99	90-110	
Vanadium	100	98.208	98	90-110	
Zinc	100	97.984	98	90-110	

CCV3	Date: 19-Jun-2024 13:24	Seq: 8085729	CCV	Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	91.323	91	90-110	
Antimony	100	101.516	102	90-110	
Arsenic	100	98.575	99	90-110	
Barium	100	98.127	98	90-110	
Beryllium	100	92.358	92	90-110	
Cadmium	100	96.222	96	90-110	
Calcium	10000	9592.574	96	90-110	
Chromium	100	98.033	98	90-110	
Cobalt	100	99.129	99	90-110	
Copper	100	100.954	101	90-110	
Iron	10000	10908.621	109	90-110	
Lead	100	97.64	98	90-110	
Magnesium	10000	10148.595	101	90-110	
Manganese	100	98.546	99	90-110	
Nickel	100	98.885	99	90-110	
Potassium	10000	10430.219	104	90-110	
Selenium	100	97.652	98	90-110	
Silver	100	96.517	97	90-110	
Sodium	10000	10141.958	101	90-110	
Thallium	100	98.207	98	90-110	
Vanadium	100	97.012	97	90-110	
Zinc	100	97.941	98	90-110	

CCV4	Date: 19-Jun-2024 13:49	Seq: 8085864	CCV	Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	94.252	94	90-110	
Antimony	100	99.47	100	90-110	
Arsenic	100	97.473	98	90-110	
Barium	100	97.654	98	90-110	
Beryllium	100	92.814	93	90-110	
Cadmium	100	96.939	97	90-110	
Calcium	10000	9663.921	97	90-110	
Chromium	100	98.541	99	90-110	
Cobalt	100	99.885	100	90-110	
Copper	100	100.073	100	90-110	

ALS Houston, US Date: 12-Jul-24

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060434

Run ID: ICPMS05_469846
Instrument: ICPMS05
Method: SW6020A

CCV4 Date: 19-Jun-2024 13:49 Seq: 8085864 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Iron	10000	10933.799	109	90-110	
Lead	100	97.741	98	90-110	
Magnesium	10000	10486.487	105	90-110	
Manganese	100	98.835	99	90-110	
Nickel	100	100.219	100	90-110	
Potassium	10000	10615.897	106	90-110	
Selenium	100	99.519	100	90-110	
Silver	100	97.483	98	90-110	
Sodium	10000	10553.109	106	90-110	
Thallium	100	97.739	98	90-110	
Vanadium	100	97.259	97	90-110	
Zinc	100	99.463	100	90-110	

CCV5 Date: 19-Jun-2024 14:14 Seq: 8086036 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	94.073	94	90-110	
Antimony	100	99.476	100	90-110	
Arsenic	100	95.357	95	90-110	
Barium	100	98.177	98	90-110	
Beryllium	100	90.966	91	90-110	
Cadmium	100	96.232	96	90-110	
Calcium	10000	9564.754	96	90-110	
Chromium	100	96.643	97	90-110	
Cobalt	100	98.287	98	90-110	
Copper	100	100.029	100	90-110	
Iron	10000	10772.734	108	90-110	
Lead	100	97.099	97	90-110	
Magnesium	10000	10347.095	103	90-110	
Manganese	100	98.194	98	90-110	
Nickel	100	98.552	99	90-110	
Potassium	10000	10300.681	103	90-110	
Selenium	100	98.398	98	90-110	
Silver	100	95.671	96	90-110	
Sodium	10000	10313.005	103	90-110	
Thallium	100	97.281	97	90-110	
Vanadium	100	94.953	95	90-110	
Zinc	100	96.999	97	90-110	

CCV6 Date: 19-Jun-2024 14:33 Seq: 8086082 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Aluminum	100	91.872	92	90-110	
Antimony	100	97.55	98	90-110	
Arsenic	100	96.809	97	90-110	
Barium	100	97.612	98	90-110	
Beryllium	100	91.06	91	90-110	
Cadmium	100	96.946	97	90-110	
Calcium	10000	9468.352	95	90-110	
Chromium	100	96.326	96	90-110	
Cobalt	100	97.101	97	90-110	
Copper	100	98.301	98	90-110	
Iron	10000	10704.141	107	90-110	
Lead	100	96.322	96	90-110	
Magnesium	10000	10287.392	103	90-110	
Manganese	100	97.071	97	90-110	
Nickel	100	98.158	98	90-110	

ALS Houston, US Date: 12-Jul-24

Form 2 - Initial and Continuing Calibration Verification

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060434

Run ID: ICPMS05_469846
Instrument: ICPMS05
Method: SW6020A

CCV6 Date: 19-Jun-2024 14:33 Seq: 8086082 CCV Units: ug/L

Analyte	True	Found	%R	Control Limits	Flag
Potassium	10000	10401.33	104	90-110	
Selenium	100	95.989	96	90-110	
Silver	100	96.203	96	90-110	
Sodium	10000	10191.133	102	90-110	
Thallium	100	97.061	97	90-110	
Vanadium	100	95.144	95	90-110	
Zinc	100	97.097	97	90-110	

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060434

Run ID: HG04_469750
Instrument: HG04
Method: SW7470A

ICB	Date: 18-Jun-2024 11:02		Seq: 8083326	ICB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB1	Date: 18-Jun-2024 11:10		Seq: 8083329	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB2	Date: 18-Jun-2024 11:35		Seq: 8083341	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB3	Date: 18-Jun-2024 11:57		Seq: 8083353	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB4	Date: 18-Jun-2024 12:24		Seq: 8083368	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB5	Date: 18-Jun-2024 12:47		Seq: 8083380	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB6	Date: 18-Jun-2024 13:15		Seq: 8083389	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB7	Date: 18-Jun-2024 13:36		Seq: 8083401	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB8	Date: 18-Jun-2024 13:59		Seq: 8083416	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
MBLK-213707	Date: 18-Jun-2024 14:14		Seq: 8083423	MBLK	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB9	Date: 18-Jun-2024 14:23		Seq: 8083428	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB10	Date: 18-Jun-2024 14:53		Seq: 8083438	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB11	Date: 18-Jun-2024 15:18		Seq: 8083557	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB12	Date: 18-Jun-2024 15:42		Seq: 8083602	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	
CCB13	Date: 18-Jun-2024 15:49		Seq: 8083606	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Mercury	0.2	0.03	0.2	U	

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060434

Run ID: ICPMS05_469846
Instrument: ICPMS05
Method: SW6020A

ICB | Date: 19-Jun-2024 12:11 | Seq: 8085524 | ICB | Units: ug/L

Analyte	Result	MDL	Report Limit	Qual
Aluminum	10	1.8	10	U
Antimony	5	0.4	5	U
Arsenic	5	0.4	5	U
Barium	5	1.9	5	U
Beryllium	2	0.2	2	U
Cadmium	2	0.2	2	U
Calcium	500	34	500	U
Chromium	-0.644	0.4	5	J
Cobalt	5	0.1	5	U
Copper	5	1	5	U
Iron	200	12	200	U
Lead	5	0.6	5	U
Magnesium	200	10	200	U
Manganese	5	0.7	5	U
Nickel	5	0.6	5	U
Potassium	200	18	200	U
Selenium	5	1.1	5	U
Silver	5	0.2	5	U
Sodium	200	14	200	U
Thallium	2	0.2	2	U
Vanadium	5	0.6	5	U
Zinc	5	2	5	U

MBLK-213517 | Date: 19-Jun-2024 12:37 | Seq: 8085603 | MBLK | Units: ug/L

Analyte	Result	MDL	Report Limit	Qual
Aluminum	10	1.8	10	U
Antimony	5	0.4	5	U
Arsenic	5	0.4	5	U
Barium	5	1.9	5	U
Beryllium	2	0.2	2	U
Cadmium	2	0.2	2	U
Calcium	500	34	500	U
Chromium	5	0.4	5	U
Cobalt	5	0.1	5	U
Copper	5	1	5	U
Iron	200	12	200	U
Lead	5	0.6	5	U
Magnesium	200	10	200	U
Manganese	5	0.7	5	U
Nickel	5	0.6	5	U
Potassium	200	18	200	U
Selenium	5	1.1	5	U
Silver	5	0.2	5	U
Sodium	200	14	200	U
Thallium	2	0.2	2	U
Vanadium	5	0.6	5	U
Zinc	5	2	5	U

CCB1 | Date: 19-Jun-2024 12:52 | Seq: 8085606 | CCB | Units: ug/L

Analyte	Result	MDL	Report Limit	Qual
Aluminum	-2.796	1.8	10	J
Antimony	0.554	0.4	2	J
Arsenic	2	0.4	2	U
Barium	4	1.9	4	U
Beryllium	2	0.2	2	U

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060434

Run ID: ICPMS05_469846
Instrument: ICPMS05
Method: SW6020A

CCB1	Date: 19-Jun-2024 12:52		Seq: 8085606	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	-0.84	0.4	4	J	
Cobalt	5	0.2	5	U	
Copper	2	1	2	U	
Iron	200	12	200	U	
Lead	2	0.6	2	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	2	0.6	2	U	
Potassium	200	18	200	U	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	75.96	14	200	J	
Thallium	0.649	0.2	2	J	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB2	Date: 19-Jun-2024 13:26		Seq: 8085730	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	-2.335	1.8	10	J	
Antimony	1.488	0.4	2	J	
Arsenic	2	0.4	2	U	
Barium	4	1.9	4	U	
Beryllium	2	0.2	2	U	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	-0.902	0.4	4	J	
Cobalt	5	0.2	5	U	
Copper	2	1	2	U	
Iron	200	12	200	U	
Lead	2	0.6	2	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	2	0.6	2	U	
Potassium	200	18	200	U	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	200	14	200	U	
Thallium	0.382	0.2	2	J	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB3	Date: 19-Jun-2024 13:51		Seq: 8085865	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	-2.623	1.8	10	J	
Antimony	0.605	0.4	2	J	
Arsenic	2	0.4	2	U	
Barium	4	1.9	4	U	
Beryllium	2	0.2	2	U	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	-0.795	0.4	4	J	
Cobalt	5	0.2	5	U	
Copper	2	1	2	U	

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060434

Run ID: ICPMS05_469846
Instrument: ICPMS05
Method: SW6020A

CCB3	Date: 19-Jun-2024 13:51		Seq: 8085865	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Iron	200	12	200	U	
Lead	2	0.6	2	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	2	0.6	2	U	
Potassium	24.88	18	200	J	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	80.13	14	200	J	
Thallium	0.268	0.2	2	J	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB4	Date: 19-Jun-2024 14:16		Seq: 8086037	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	-2.885	1.8	10	J	
Antimony	0.411	0.4	2	J	
Arsenic	2	0.4	2	U	
Barium	4	1.9	4	U	
Beryllium	2	0.2	2	U	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	-0.87	0.4	4	J	
Cobalt	5	0.2	5	U	
Copper	2	1	2	U	
Iron	200	12	200	U	
Lead	2	0.6	2	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	2	0.6	2	U	
Potassium	19.68	18	200	J	
Selenium	2	1.1	2	U	
Silver	2	0.2	2	U	
Sodium	48.9	14	200	J	
Thallium	0.272	0.2	2	J	
Vanadium	5	0.6	5	U	
Zinc	4	2	4	U	

CCB5	Date: 19-Jun-2024 14:35		Seq: 8086083	CCB	Units: ug/L
Analyte	**Result**	**MDL**	**Report Limit**	**Qual**	
Aluminum	-2.66	1.8	10	J	
Antimony	0.424	0.4	2	J	
Arsenic	2	0.4	2	U	
Barium	4	1.9	4	U	
Beryllium	2	0.2	2	U	
Cadmium	2	0.2	2	U	
Calcium	500	34	500	U	
Chromium	-0.788	0.4	4	J	
Cobalt	5	0.2	5	U	
Copper	2	1	2	U	
Iron	200	12	200	U	
Lead	2	0.6	2	U	
Magnesium	200	10	200	U	
Manganese	5	0.7	5	U	
Nickel	2	0.6	2	U	

ALS Houston, US Date: 12-Jul-24

Form 3 - BLANKS

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060434

Run ID: ICPMS05_469846
Instrument: ICPMS05
Method: SW6020A

CCB5 Date: 19-Jun-2024 14:35 Seq: 8086083 CCB Units: ug/L

Analyte	Result	MDL	Report Limit	Qual
Potassium	200	18	200	U
Selenium	2	1.1	2	U
Silver	2	0.2	2	U
Sodium	26.54	14	200	J
Thallium	0.272	0.2	2	J
Vanadium	-0.608	0.6	5	J
Zinc	4	2	4	U

ALS Houston, US Date: 12-Jul-24

Form 4 - ICP Interference Check Sample

Client: Bhate Environmental Associates, Inc. Run ID:ICPMS05_469846
Project: LHAAP Site 18/24 Instrument:ICPMS05
WorkOrder: HS24060434 Method:SW6020A

ICSA	Date: 19-Jun-2024 12:14	Seq: 8085525	ICSA	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100000	98720	98.7	
Antimony		0.045	0	
Arsenic		0.39	0	
Barium		0.307	0	
Beryllium		0.023	0	
Cadmium		0.707	0	
Calcium	100000	96290	96.3	
Chromium		0.744	0	
Cobalt		1.048	0	
Copper		0.715	0	
Iron	100000	97600	97.6	
Lead		0.895	0	
Magnesium	100000	96860	96.9	
Manganese		1.224	0	
Nickel		1.144	0	
Potassium	100000	98780	98.8	
Selenium		0.447	0	
Silver		0.04	0	
Sodium	100000	99330	99.3	
Thallium		0.012	0	
Vanadium		0.553	0	
Zinc		2.411	0	

ICSAB	Date: 19-Jun-2024 12:16	Seq: 8085526	ICSAB	Units: ug/L
Analyte	**True**	**Found**	**%R**	
Aluminum	100500	104200	104	
Antimony	100	100.4	100	
Arsenic	100	104.9	105	
Barium	100	106.7	107	
Beryllium	100	93.49	93.5	
Cadmium	100	104	104	
Calcium	110000	118300	108	
Chromium	100	100.1	100	
Cobalt	100	98.09	98.1	
Copper	100	96.03	96.0	
Iron	110000	112800	103	
Lead	100	105.4	105	
Magnesium	110000	112700	102	
Manganese	100	102.5	102	
Nickel	100	95.7	95.7	
Potassium	110000	114500	104	
Selenium	100	107.1	107	
Silver	100	109.6	110	
Sodium	110000	115500	105	
Thallium	100	103.5	104	
Vanadium	100	101.9	102	
Zinc	100	102.9	103	

ALS Houston, US Date: 12-Jul-24

Form 5A - Matrix Spike/Matrix Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060434

Date Analyzed: 18-Jun-2024 14:37
Date Extracted: 18-Jun-2024 09:00
Units: ug/L

Matrix Spike: HS24060434-09MS
Client Sample ID: 18WW14_060624

Analysis Method: SW7470A

Analyte	Sample Result	MS Result	Spike Amount	% Rec	MSD Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Mercury	0.2000	4.410	5.000	88.4	4.380	5.000	87.8	82-119	0.683	20

ALS Houston, US

Date: 12-Jul-24

Form 5A - Matrix Spike/Matrix Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060434

Date Analyzed: 19-Jun-2024 13:34
Date Extracted: 13-Jun-2024 16:00
Units: ug/L

Matrix Spike: HS24060434-09MS
Client Sample ID: 18WW14_060624

Analysis Method: SW6020A

Analyte	Sample Result	MS Result	Spike Amount	% Rec	MSD Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Aluminum	19.64	105.8	100.0	86.2	106.7	100.0	87.0	84-117	0.773	20
Antimony	1.111	44.46	50.00	86.7	45.33	50.00	88.4	85-117	1.94	20
Arsenic	0.4390	44.20	50.00	87.5	44.42	50.00	88.0	84-116	0.497	20
Barium	315.5	349.7	50.00	68.3	358.1	50.00	85.2	86-114	2.38	20
Beryllium	2.000	42.65	50.00	85.1	44.15	50.00	88.1	83-121	3.45	20
Cadmium	0.2690	44.59	50.00	88.6	45.30	50.00	90.1	87-115	1.57	20
Calcium	17690	21370	5000	73.7	22030	5000	86.9	87-118	3.05	20
Chromium	116.2	155.6	50.00	78.9	158.2	50.00	84.1	85-116	1.66	20
Cobalt	1.942	45.45	50.00	87.0	46.83	50.00	89.8	86-115	2.99	20
Copper	5.888	49.16	50.00	86.5	50.17	50.00	88.6	85-118	2.03	20
Iron	1170	5905	5000	94.7	6056	5000	97.7	87-118	2.52	20
Lead	5.000	44.54	50.00	88.8	45.74	50.00	91.2	88-115	2.66	20
Magnesium	14200	18230	5000	80.5	18640	5000	88.7	83-118	2.23	20
Manganese	129.1	168.0	50.00	77.8	173.1	50.00	88.0	87-115	3.02	20
Nickel	136.8	173.4	50.00	73.2	177.7	50.00	81.8	85-117	2.45	20
Potassium	2278	7157	5000	97.6	7272	5000	99.9	87-115	1.59	20
Selenium	1.480	43.78	50.00	84.6	43.76	50.00	84.6	80-120	0.0228	20
Silver	0.2270	42.83	50.00	85.2	43.15	50.00	85.8	85-116	0.754	20
Sodium	69480	71420	5000	38.7	73980	5000	90.0	85-117	3.53	20
Thallium	2.000	44.08	50.00	87.9	45.57	50.00	90.9	82-116	3.31	20
Vanadium	5.000	40.81	50.00	87.2	40.25	50.00	86.1	86-115	1.38	20
Zinc	11.53	53.92	50.00	84.8	53.91	50.00	84.8	83-119	0.0223	20

ALS Houston, US

Date: 12-Jul-24

Form 5B - Post Digest Sample Recovery

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060434

Date Analyzed: 19-Jun-2024 13:36
Date Extracted: 13-Jun-2024 16:00
Units: ug/L

Lab Sample ID: HS24060434-09PDS
Client Sample ID: 18WW14_060624
Analysis Method: SW6020A

Analyte	Sample Result	PDS Result	Spike Amount	% Rec	% Rec Limits
Aluminum	19.64	105.4	100	86	80-120
Antimony	1.111	89.53	100	88	80-120
Arsenic	0.439	91.39	100	91	80-120
Barium	315.5	420.3	100	105	80-120
Beryllium	0	84.21	100	84	80-120
Cadmium	0.269	91.44	100	91	80-120
Calcium	17690	26800	10000	91	80-120
Chromium	116.2	208.1	100	92	80-120
Cobalt	1.942	92.19	100	90	80-120
Copper	5.888	96.22	100	90	80-120
Iron	1170	11250	10000	101	80-120
Lead	0	94.22	100	94	80-120
Magnesium	14200	23870	10000	97	80-120
Manganese	129.1	223.6	100	95	80-120
Nickel	136.8	227.3	100	91	80-120
Potassium	2278	12270	10000	100	80-120
Selenium	1.48	91.81	100	90	80-120
Silver	0.227	90.16	100	90	80-120
Sodium	69480	81560	10000	121	80-120
Thallium	0	93.76	100	94	80-120
Vanadium	0	85.61	100	88	80-120
Zinc	11.53	101.5	100	90	80-120

ALS Houston, US Date: 12-Jul-24

Form 7 - Laboratory Control Sample

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060434

Date Analyzed: 18-Jun-2024 14:16
Date Extracted: 18-Jun-2024 09:00
Units: ug/L

Lab Sample ID: LCS-213707 Analysis Method: SW7470A

Analyte	Spike Amount	LCS Result	% Rec	% Rec Limits
Mercury	5	4.21	84	82-119

ALS Houston, US Date: 12-Jul-24

Form 7 - Laboratory Control Sample

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060434

Date Analyzed: 19-Jun-2024 12:42
Date Extracted: 13-Jun-2024 16:00
Units: ug/L

Lab Sample ID: LCS-213517 Analysis Method: SW6020A

Analyte	Spike Amount	LCS Result	% Rec	% Rec Limits
Aluminum	100	107.9	108	84-117
Antimony	50	44.61	89	85-117
Arsenic	50	45.07	90	84-116
Barium	50	47.12	94	86-114
Beryllium	50	44.43	89	83-121
Cadmium	50	46.44	93	87-115
Calcium	5000	4720	94	87-118
Chromium	50	46.6	93	85-116
Cobalt	50	46.67	93	86-115
Copper	50	47.38	95	85-118
Iron	5000	4766	95	87-118
Lead	50	46.71	93	88-115
Magnesium	5000	4542	91	83-118
Manganese	50	49.9	100	87-115
Nickel	50	46.97	94	85-117
Potassium	5000	4670	93	87-115
Selenium	50	46.38	93	80-120
Silver	50	46.1	92	85-116
Sodium	5000	4637	93	85-117
Thallium	50	46.22	92	82-116
Vanadium	50	45.53	91	86-115
Zinc	50	47.6	95	83-119

ALS Houston, US Date: 12-Jul-24

Form 8 - ICP Serial Dilutions

Client: Bhate Environmental Associates, Inc.
Project: LHAAP Site 18/24
WorkOrder: HS24060434

Date Analyzed: 19-Jun-2024 13:30
Date Extracted: 13-Jun-2024 16:00
Units: ug/L

Lab Sample ID: HS24060434-09SD
Client Sample ID:18WW14_060624
Analysis Method: SW6020A

Analyte	Sample Result	C	SD Result	C	RPD	Q
Aluminum	19.64		13.36	J	32	
Antimony	1.111	J	2.317	J	109	
Arsenic	0.439	J	0	U	0	
Barium	315.5		310.8		1	
Beryllium	0	U	0	U	0	
Cadmium	0.269	J	0	U	0	
Calcium	17690		17730		0	
Chromium	116.2		114.4		2	
Cobalt	1.942	J	2.001	J	3	
Copper	5.888		6.162	J	5	
Iron	1170		1068		9	
Lead	0	U	0	U	0	
Magnesium	14200		13270		7	
Manganese	129.1		130.6		1	
Nickel	136.8		141.2		3	
Potassium	2278		2350		3	
Selenium	1.48	J	0	U	0	
Silver	0.227	J	0	U	0	
Sodium	69480		72230		4	
Thallium	0	U	0	U	0	
Vanadium	0	U	0	U	0	
Zinc	11.53		12.33	J	7	

Report Generated By Teledyne Leeman QuickTrace

Analyst: ALSHS.NoUser,

Worksheet file: C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\061824AW.wszf

Creation Date: 6/18/2024 10:29:23 AM

Comment:

Results

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
Calibration Blank					STD	06/18/24 10:46:27 am	0.000	167	13.17		
	Replicates	134.5	180.6	170.2	181.0						
Standard #1 (0.2 ppb)					STD	06/18/24 10:48:09 am	0.200	1277	0.63	-0.40%	
	Replicates	1272.8	1267.0	1283.6	1282.6						
Standard #2 (0.5 ppb)					STD	06/18/24 10:49:52 am	0.500	2948	0.54	-0.93%	
	Replicates	2935.0	2970.4	2939.3	2948.1						
Standard #3 (2.0 ppb)					STD	06/18/24 10:51:34 am	2.000	11527	0.38	0.75%	
	Replicates	11462.5	11537.7	11554.5	11553.7						
Standard #4 (5.0 ppb)					STD	06/18/24 10:53:17 am	5.000	28365	0.30	-0.04%	
	Replicates	28268.0	28458.1	28411.7	28322.1						
Standard #5 (10.0 ppb)					STD	06/18/24 10:55:00 am	10.000	56521	0.65	-0.14%	
	Replicates	56048.4	56425.1	56721.6	56889.4						

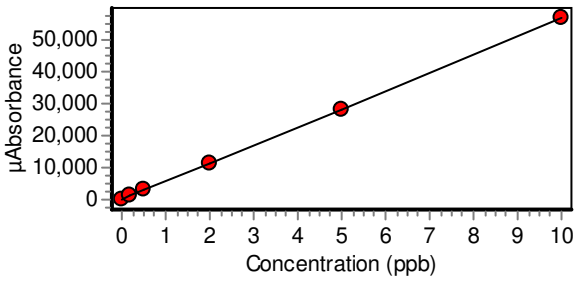
Calibration

Equation: Abs = 5645.067x + 152.036

R2: 0.99999 RSE: 0.74%

SEE: 61.1276

Flags:



ICCV					UNK	06/18/24 10:59:22 am	5.000	28355	0.15		
	Replicates	28300.9	28385.9	28391.3	28340.2						
ICV					UNK	06/18/24 11:01:03 am	5.380	30524	0.54		
	Replicates	30295.1	30517.4	30639.8	30642.1						
ICB					UNK	06/18/24 11:02:45 am	-0.006	120	68.28		
	Replicates	136.1	112.9	91.1	138.1						
CRA					UNK	06/18/24 11:04:27 am	0.191	1228	0.66		
	Replicates	1221.6	1238.2	1227.3	1225.6						
CCV					UNK	06/18/24 11:08:47 am	4.970	28223	0.30		
	Replicates	28116.1	28195.4	28272.1	28308.3						
CCB					UNK	06/18/24 11:10:31 am	-0.010	96	46.98		
	Replicates	109.3	126.9	71.9	77.8						
MBLK-213690					UNK	06/18/24 11:15:34 am	-0.003	137	122.29		
	Replicates	145.7	120.5	122.9	158.8						

Sample Name				Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
LCS-213690				UNK	06/18/24 11:17:16 am	4.840	27485	0.53		
Replicates	27527.1	27635.3	27490.9	27287.9						
MBLKT1-213541				UNK	06/18/24 11:18:58 am	0.006	186	38.81		
Replicates	192.0	176.6	174.3	202.4						
MBLKT2-213593				UNK	06/18/24 11:20:41 am	-0.017	58	12.27		
Replicates	59.7	61.3	42.3	69.7						
MBLKT3-213595				UNK	06/18/24 11:22:23 am	-0.014	73	20.11		
Replicates	91.9	75.3	53.1	70.3						
HS24060695-01				UNK	06/18/24 11:24:06 am	-0.016	64	19.02		
Replicates	53.5	49.6	65.0	87.0						
HS24060695-02				UNK	06/18/24 11:25:49 am	-0.031	-24	7.22		
Replicates	-22.8	-20.1	-41.5	-11.4						
HS24060695-03				UNK	06/18/24 11:27:32 am	0.001	156	151.02		
Replicates	147.7	156.9	158.4	159.4						
HS24060695-04				UNK	06/18/24 11:29:13 am	-0.011	90	49.24		
Replicates	53.5	88.8	128.4	89.2						
HS24060695-04MS				UNK	06/18/24 11:30:55 am	4.550	25856	0.60		
Replicates	25685.6	25778.1	25929.7	26029.7						
CCV				UNK	06/18/24 11:33:51 am	4.930	27979	0.51		
Replicates	27780.4	27978.3	28045.9	28110.5						
CCB				UNK	06/18/24 11:35:35 am	0.001	156	119.61		
Replicates	161.6	151.7	158.1	152.5						
HS24060695-04MSD				UNK	06/18/24 11:38:19 am	4.510	25598	0.97		
Replicates	25293.2	25527.1	25707.3	25865.4						
HS24060695-05				UNK	06/18/24 11:40:01 am	-0.029	-9	4.79		
Replicates	-6.2	-8.3	-20.1	-2.1						
HS24060695-06				UNK	06/18/24 11:41:43 am	-0.022	28	20.53		
Replicates	1.5	41.0	12.2	56.8						
HS24060695-07				UNK	06/18/24 11:43:25 am	-0.001	145	291.10		
Replicates	117.0	156.5	150.3	157.9						
HS24060695-08				UNK	06/18/24 11:45:07 am	-0.016	63	6.51		
Replicates	68.5	57.2	58.4	67.0						
HS24060695-09				UNK	06/18/24 11:46:50 am	-0.004	130	120.81		
Replicates	90.7	135.4	152.8	139.8						
HS24060695-10				UNK	06/18/24 11:48:32 am	0.008	199	28.56		
Replicates	186.0	189.6	214.2	206.0						
HS24060695-11				UNK	06/18/24 11:50:15 am	-0.004	132	34.14		
Replicates	128.6	126.8	142.0	129.8						

Sample Name			Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
HS24060695-12			UNK	06/18/24 11:51:58 am	-0.007	114	61.39		
Replicates	100.5	94.2	113.0	147.0					
HS24060695-13			UNK	06/18/24 11:53:41 am	-0.006	118	60.45		
Replicates	97.9	145.6	107.8	120.4					
CCV			UNK	06/18/24 11:56:09 am	4.890	27759	0.51		
Replicates	27566.2	27753.1	27835.3	27882.8					
CCB			UNK	06/18/24 11:57:53 am	-0.007	111	17.22		
Replicates	116.4	111.3	101.6	116.3					
HS24060695-14			UNK	06/18/24 12:00:16 pm	-0.005	124	39.71		
Replicates	133.4	127.6	107.9	127.3					
HS24060695-15			UNK	06/18/24 12:01:58 pm	-0.006	119	47.11		
Replicates	113.9	104.6	141.2	114.8					
HS24060695-16			UNK	06/18/24 12:03:39 pm	-0.012	86	17.42		
Replicates	85.9	90.6	97.0	70.0					
HS24060695-17			UNK	06/18/24 12:05:21 pm	-0.021	32	13.72		
Replicates	44.0	7.6	36.0	39.8					
HS24060695-18			UNK	06/18/24 12:07:03 pm	-0.011	91	17.76		
Replicates	104.8	78.4	88.4	91.6					
HS24060695-19			UNK	06/18/24 12:08:45 pm	-0.016	61	12.34		
Replicates	74.9	64.4	51.4	51.8					
HS24060695-20			UNK	06/18/24 12:10:28 pm	-0.007	114	45.70		
Replicates	104.0	97.5	120.1	135.9					
MBLKL-213704			UNK	06/18/24 12:14:24 pm	-0.017	55	10.61		
Replicates	48.5	70.1	54.3	48.0					
LCS-213704			UNK	06/18/24 12:16:06 pm	4.770	27102	0.61		
Replicates	26885.6	27058.6	27228.3	27235.2					
LCSD-213704			UNK	06/18/24 12:17:49 pm	4.890	27730	0.98		
Replicates	27337.1	27764.3	27918.6	27901.2					
CCV			UNK	06/18/24 12:22:31 pm	4.770	27089	1.54		
Replicates	26537.2	27018.8	27326.0	27474.0					
CCB			UNK	06/18/24 12:24:15 pm	-0.004	127	50.88		
Replicates	135.9	117.1	140.1	115.4					
LOQ-213704			UNK	06/18/24 12:25:58 pm	0.194	1247	2.26		
Replicates	1216.6	1253.2	1243.6	1276.4					
HS24060043-01			UNK	06/18/24 12:27:41 pm	-0.010	95	28.88		
Replicates	84.2	87.5	119.7	90.3					
HS24060268-01			UNK	06/18/24 12:29:22 pm	-0.008	110	33.52		
Replicates	93.1	124.9	117.3	103.1					

Sample Name				Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
HS24060421-01				UNK	06/18/24 12:31:04 pm	-0.020	41	17.46		
Replicates	39.2	36.1	67.3	20.7						
HS24060569-01				UNK	06/18/24 12:32:46 pm	-0.017	54	10.31		
Replicates	57.0	66.2	49.0	42.8						
HS24060569-02				UNK	06/18/24 12:34:28 pm	-0.014	75	9.01		
Replicates	70.8	78.8	67.7	82.7						
HS24060581-01				UNK	06/18/24 12:36:10 pm	-0.015	66	11.39		
Replicates	56.4	60.0	73.8	75.8						
HS24060581-02				UNK	06/18/24 12:37:52 pm	-0.030	-20	7.00		
Replicates	-14.5	-29.5	-29.9	-5.3						
HS24060581-02MS				UNK	06/18/24 12:39:34 pm	4.580	26011	0.27		
Replicates	25941.4	26085.4	26058.0	25960.6						
HS24060581-02MSD				UNK	06/18/24 12:41:17 pm	4.540	25772	0.72		
Replicates	25509.2	25781.0	25910.6	25888.0						
CCV				UNK	06/18/24 12:46:12 pm	4.890	27746	1.04		
Replicates	27332.3	27776.7	27924.4	27951.7						
CCB				UNK	06/18/24 12:47:56 pm	0.001	158	153.77		
Replicates	164.1	146.2	155.2	167.6						
HS24060581-03				UNK	06/18/24 12:49:38 pm	-0.012	86	32.76		
Replicates	80.6	90.3	60.7	112.7						
HS24060581-03MS				UNK	06/18/24 12:51:21 pm	4.700	26695	0.65		
Replicates	26447.9	26795.5	26829.1	26708.9						
HS24060581-03MSD				UNK	06/18/24 12:55:35 pm	4.950	28095	0.47		
Replicates	27964.9	28222.9	28191.8	28000.8						
HS24060581-04				UNK	06/18/24 12:57:18 pm	-0.021	34	9.11		
Replicates	26.1	44.4	42.4	23.8						
HS24060598091				UNK	06/18/24 12:59:00 pm	-0.013	80	20.02		
Replicates	99.8	81.2	71.4	67.4						
HS24060689-01				UNK	06/18/24 01:00:42 pm	-0.009	103	26.50		
Replicates	84.4	113.0	109.4	106.6						
HS24060722-01				UNK	06/18/24 01:02:24 pm	-0.018	49	29.55		
Replicates	58.4	51.3	6.9	79.3						
HS24060772-01				UNK	06/18/24 01:04:06 pm	-0.012	85	14.45		
Replicates	90.5	72.6	94.4	81.6						
MBLK-213695				UNK	06/18/24 01:05:48 pm	-0.001	149	216.07		
Replicates	143.0	150.3	144.8	157.8						
LCS-213695				UNK	06/18/24 01:07:30 pm	4.690	26639	1.45		
Replicates	26124.6	26586.5	26839.1	27004.3						

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
CCV					UNK	06/18/24 01:13:21 pm	4.740	26898	0.95		
	Replicates	26538.8	26903.3	27040.3	27109.2						
CCB					UNK	06/18/24 01:15:04 pm	-0.002	143	158.20		
	Replicates	123.1	152.6	152.6	144.4						
HS24060217-01					UNK	06/18/24 01:16:47 pm	-0.013	82	25.60		
	Replicates	78.1	94.3	57.7	96.7						
HS24060217-02					UNK	06/18/24 01:18:29 pm	-0.003	134	33.64		
	Replicates	134.0	142.6	132.0	128.6						
HS24060217-03					UNK	06/18/24 01:20:12 pm	-0.012	84	36.05		
	Replicates	109.0	96.8	52.9	76.7						
HS24060807-02					UNK	06/18/24 01:21:54 pm	0.092	672	3.05		
	Replicates	651.1	677.3	671.3	689.0						
HS24060807-03					UNK	06/18/24 01:23:37 pm	0.065	517	3.70		
	Replicates	501.0	510.9	526.5	529.8						
HS24060807-05					UNK	06/18/24 01:25:20 pm	-0.016	60	16.96		
	Replicates	42.3	53.8	67.4	77.8						
HS24060807-10					UNK	06/18/24 01:27:02 pm	0.099	713	3.12		
	Replicates	694.4	732.2	723.6	703.4						
HS24060852-01					UNK	06/18/24 01:28:45 pm	-0.004	128	80.23		
	Replicates	138.6	126.9	145.5	102.1						
HS24060852-01MS					UNK	06/18/24 01:30:27 pm	4.660	26438	0.92		
	Replicates	26078.6	26506.1	26590.5	26577.3						
HS24060852-01MSD					UNK	06/18/24 01:32:09 pm	4.710	26766	0.76		
	Replicates	26464.9	26833.2	26900.0	26866.0						
CCV					UNK	06/18/24 01:34:30 pm	4.860	27597	0.28		
	Replicates	27486.5	27664.8	27634.2	27602.2						
CCB					UNK	06/18/24 01:36:14 pm	-0.020	40	16.63		
	Replicates	66.2	40.6	31.8	23.2						
MBLK-213691					UNK	06/18/24 01:40:00 pm	-0.012	85	42.51		
	Replicates	48.6	77.5	107.9	107.5						
LCS-213691					UNK	06/18/24 01:41:42 pm	4.790	27174	0.43		
	Replicates	27001.6	27249.2	27246.6	27197.0						
HS24060251-01					UNK	06/18/24 01:43:25 pm	-0.025	14	14.13		
	Replicates	3.9	39.5	-5.7	16.7						
HS24060251-01MS					UNK	06/18/24 01:45:07 pm	4.550	25822	1.14		
	Replicates	25395.8	25868.4	26004.1	26020.7						
HS24060251-01MSD					UNK	06/18/24 01:46:50 pm	4.560	25895	0.41		
	Replicates	25740.2	25953.3	25972.8	25912.1						

Sample Name			Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
HS24060251-02			UNK	06/18/24 01:48:32 pm	0.306	1881	0.49		
Replicates	1887.7	1871.6	1889.0	1876.8					
HS24060251-03			UNK	06/18/24 01:50:15 pm	-0.002	142	91.91		
Replicates	143.9	140.3	129.5	152.7					
HS24060251-04			UNK	06/18/24 01:51:58 pm	-0.003	136	86.02		
Replicates	116.4	145.3	146.3	135.7					
HS24060251-05			UNK	06/18/24 01:53:40 pm	-0.010	98	32.04		
Replicates	90.5	103.0	80.0	120.0					
HS24060251-06			UNK	06/18/24 01:55:23 pm	-0.011	87	7.67		
Replicates	92.6	83.9	81.7	89.5					
CCV			UNK	06/18/24 01:57:24 pm	4.870	27662	1.69		
Replicates	27008.1	27660.4	28022.6	27957.2					
CCB			UNK	06/18/24 01:59:08 pm	-0.015	69	10.73		
Replicates	59.1	64.1	73.5	78.9					
HS24060251-07			UNK	06/18/24 02:01:58 pm	-0.007	111	21.39		
Replicates	121.1	113.7	100.1	110.3					
HS24060251-08			UNK	06/18/24 02:03:41 pm	-0.017	58	17.63		
Replicates	43.7	50.9	81.8	56.1					
HS24060416-01			UNK	06/18/24 02:05:23 pm	-0.008	105	25.75		
Replicates	120.9	91.7	101.1	105.3					
HS24060416-02			UNK	06/18/24 02:07:05 pm	-0.014	73	16.71		
Replicates	70.4	55.0	80.0	85.2					
HS24060812-01			UNK	06/18/24 02:08:48 pm	0.037	362	10.35		
Replicates	352.6	347.6	354.9	394.9					
HS24060850-01			UNK	06/18/24 02:10:30 pm	0.026	297	10.76		
Replicates	286.2	280.9	310.3	310.3					
MBLK-213707			UNK	06/18/24 02:14:45 pm	-0.018	49	13.18		
Replicates	52.3	61.9	52.9	30.1					
LCS-213707			UNK	06/18/24 02:16:28 pm	4.210	23890	0.96		
Replicates	23573.6	23889.7	24006.1	24091.7					
HS24060293-04			UNK	06/18/24 02:18:11 pm	-0.028	-4	4.18		
Replicates	-7.1	-11.7	1.1	1.7					
HS24060293-05			UNK	06/18/24 02:19:54 pm	-0.013	81	48.92		
Replicates	50.7	50.2	106.4	115.0					
CCV			UNK	06/18/24 02:21:37 pm	4.830	27394	1.03		
Replicates	26979.0	27475.3	27592.8	27529.2					
CCB			UNK	06/18/24 02:23:21 pm	-0.004	127	58.00		
Replicates	120.0	117.3	148.5	123.3					

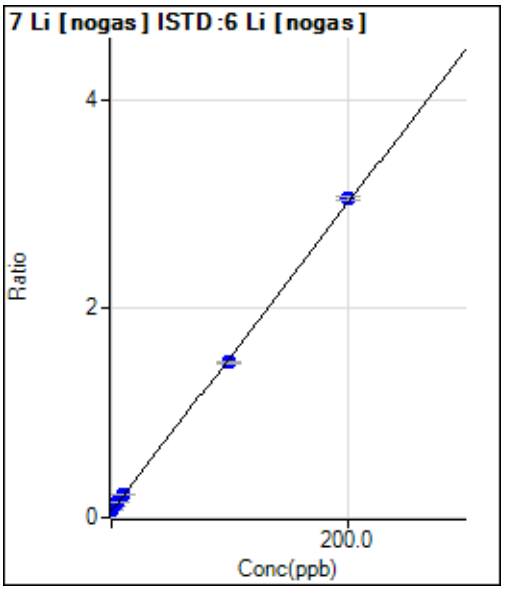
Sample Name		Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
HS24060293-06		UNK	06/18/24 02:25:03 pm	-0.012	85	34.72		
Replicates	51.6	93.0	106.0	88.8				
HS24060434-02		UNK	06/18/24 02:26:46 pm	-0.015	70	28.35		
Replicates	56.6	44.4	95.6	82.0				
HS24060434-03		UNK	06/18/24 02:28:28 pm	-0.021	36	4.50		
Replicates	41.5	34.2	38.2	29.4				
HS24060434-04		UNK	06/18/24 02:30:11 pm	0.006	188	31.90		
Replicates	175.0	184.7	188.1	202.3				
HS24060434-05		UNK	06/18/24 02:31:54 pm	-0.002	140	233.92		
Replicates	137.3	107.8	138.6	176.4				
HS24060434-09		UNK	06/18/24 02:33:36 pm	-0.011	93	22.20		
Replicates	98.4	94.6	74.0	104.3				
HS24060434-09MS		UNK	06/18/24 02:35:19 pm	4.410	25064	0.20		
Replicates	24991.3	25077.5	25085.3	25103.7				
HS24060434-09MSD		UNK	06/18/24 02:37:02 pm	4.380	24865	0.46		
Replicates	24706.9	24950.8	24947.8	24852.4				
CCV		UNK	06/18/24 02:52:11 pm	4.790	27169	0.83		
Replicates	26841.9	27216.7	27349.4	27268.4				
CCB		UNK	06/18/24 02:53:55 pm	-0.003	132	49.86		
Replicates	122.8	131.9	128.6	145.9				
HS24060487-01		UNK	06/18/24 02:55:37 pm	-0.021	32	12.05		
Replicates	27.8	13.0	43.8	42.6				
HS24060487-03		UNK	06/18/24 02:57:20 pm	-0.014	72	13.06		
Replicates	58.2	70.2	75.3	83.2				
HS24060487-04		UNK	06/18/24 02:59:03 pm	-0.013	78	9.27		
Replicates	68.3	78.7	83.9	81.5				
HS24060487-05		UNK	06/18/24 03:00:46 pm	-0.012	86	44.16		
Replicates	66.6	62.0	125.6	90.4				
HS24060487-07		UNK	06/18/24 03:02:28 pm	-0.020	39	8.90		
Replicates	41.6	46.3	24.7	45.1				
MBLK-213707		UNK	06/18/24 03:04:11 pm	-0.015	65	25.01		
Replicates	40.4	91.6	57.4	71.6				
LCS-213707		UNK	06/18/24 03:05:53 pm	4.520	25690	0.60		
Replicates	25465.2	25772.0	25800.0	25721.4				
MBLKT1-213593		UNK	06/18/24 03:07:36 pm	-0.018	51	15.56		
Replicates	36.2	62.5	40.1	67.3				
MBLKT2-213467		UNK	06/18/24 03:09:19 pm	-0.014	75	24.13		
Replicates	58.0	61.0	91.0	91.8				

Sample Name	Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
MBLKT3-213697	UNK	06/18/24 03:11:01 pm	-0.016	61	28.06		
Replicates	51.8	32.5	67.2	92.9			
CCV	UNK	06/18/24 03:16:26 pm	4.590	26037	1.00		
Replicates	25691.5	25996.5	26171.1	26287.9			
CCB	UNK	06/18/24 03:18:10 pm	-0.001	148	285.40		
Replicates	152.1	134.2	144.6	161.2			
MBLKT4-213699	UNK	06/18/24 03:19:53 pm	-0.002	138	83.14		
Replicates	143.8	136.6	149.4	122.6			
HS24060682-01	UNK	06/18/24 03:21:36 pm	-0.017	56	18.09		
Replicates	64.0	45.5	76.7	38.7			
HS24060695-21	UNK	06/18/24 03:23:18 pm	-0.013	79	26.58		
Replicates	75.3	80.6	103.9	57.0			
HS24060695-21MS	UNK	06/18/24 03:25:01 pm	4.250	24164	0.96		
Replicates	23848.1	24152.8	24272.4	24384.1			
HS24060695-21MSD	UNK	06/18/24 03:26:44 pm	4.250	24125	0.78		
Replicates	23874.7	24107.7	24207.7	24309.7			
HS24060928-01	UNK	06/18/24 03:28:27 pm	0.067	527	4.70		
Replicates	502.5	541.8	537.8	528.0			
HS24060930-01	UNK	06/18/24 03:30:09 pm	0.269	1672	1.29		
Replicates	1645.9	1668.8	1688.4	1685.7			
HS24060930-02	UNK	06/18/24 03:31:52 pm	-0.014	73	6.64		
Replicates	74.9	69.7	68.5	79.9			
HS24060983-01	UNK	06/18/24 03:33:35 pm	-0.015	69	13.05		
Replicates	77.9	79.3	63.0	57.6			
HS24061051-01	UNK	06/18/24 03:35:18 pm	-0.025	13	12.04		
Replicates	1.5	37.2	2.0	12.6			
CCV	UNK	06/18/24 03:40:32 pm	4.930	27995	2.18		
Replicates	27206.5	27865.5	28299.1	28607.1			
CCB	UNK	06/18/24 03:42:16 pm	-0.003	136	69.40		
Replicates	125.3	129.8	136.1	151.3			
HS24061051-02	UNK	06/18/24 03:43:59 pm	-0.021	33	6.95		
Replicates	23.6	30.5	33.5	43.5			
HS24061051-03	UNK	06/18/24 03:45:42 pm	-0.016	60	11.20		
Replicates	56.5	74.5	50.3	60.3			
CCV	UNK	06/18/24 03:47:25 pm	4.920	27909	2.16		
Replicates	27128.2	27779.6	28224.0	28505.8			
CCB	UNK	06/18/24 03:49:09 pm	-0.006	119	65.82		
Replicates	91.0	124.3	114.7	144.1			

Calibration for 281_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\061924A.b\
Analysis File: 061924A.batch.bin
DA Date-Time: 6/19/2024 11:54:57 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

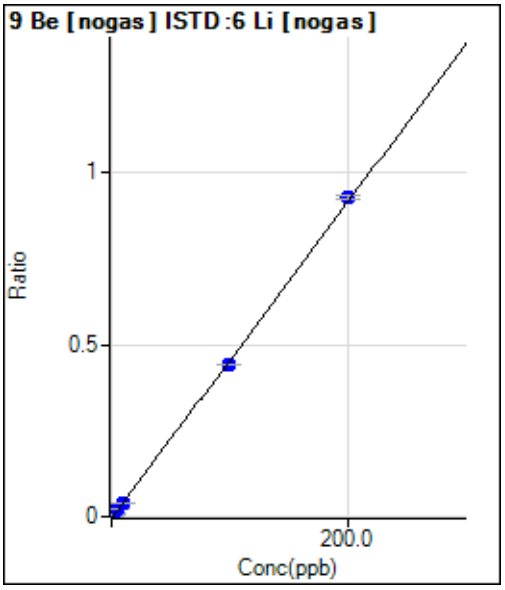
Level	Standard Data File	Sample Name	Acq. Date-Time
1	274CALB.d	CAL BLK	6/19/2024 11:21:56 PM
2	275CALS.d	2/10/200	6/19/2024 11:24:12 PM
3	276CALS.d	5/25/500	6/19/2024 11:26:28 PM
4	277CALS.d	10/50/1000	6/19/2024 11:28:43 PM
5	278CALS.d	100/500/10K	6/19/2024 11:30:59 PM
6	279CALS.d	200/1000/20K	6/19/2024 11:33:14 PM
7			



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	36609.52	0.0776	P	1.6	
2	☐	2.000	1.953	49844.41	0.1064	P	1.7	-2.4
3	☐	5.000	4.650	68009.05	0.1461	P	1.3	-7.0
4	☐	10.000	9.322	99836.48	0.2149	P	1.1	-6.8
5	☐	100.000	95.785	652957.37	1.4888	P	1.1	-4.2
6	☐	200.000	202.151	1230715.74	3.0559	P	0.7	1.1
7	☐	1.000						

y = 0.0147 * x + 0.0776
R = 0.9997
DL = 0.2516 ppb
BEC = 5.266 ppb

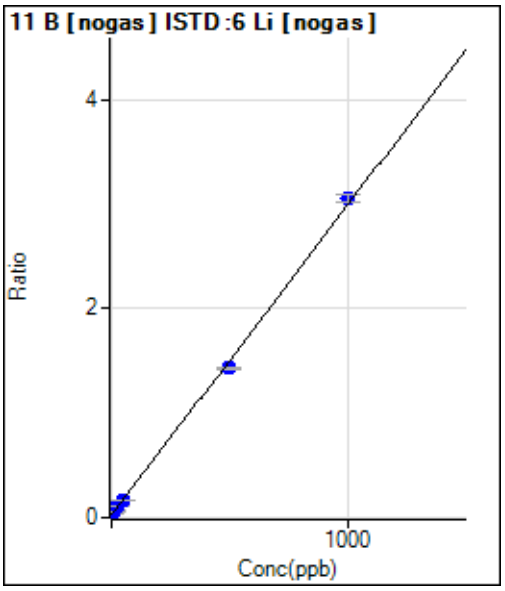
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	33.33	0.0001	P	16.7	
2	☐	2.000	1.768	3842.18	0.0082	P	5.0	-11.6
3	☐	5.000	4.466	9588.03	0.0206	P	2.9	-10.7
4	☐	10.000	8.863	18953.27	0.0408	P	1.8	-11.4
5	☐	100.000	96.174	193895.45	0.4421	P	0.8	-3.8
6	☐	200.000	201.986	373910.64	0.9284	P	1.1	1.0
7	☐	1.000						

y = 0.0046 * x + 7.0597E-005
R = 0.9998
DL = 0.007702 ppb
BEC = 0.01536 ppb

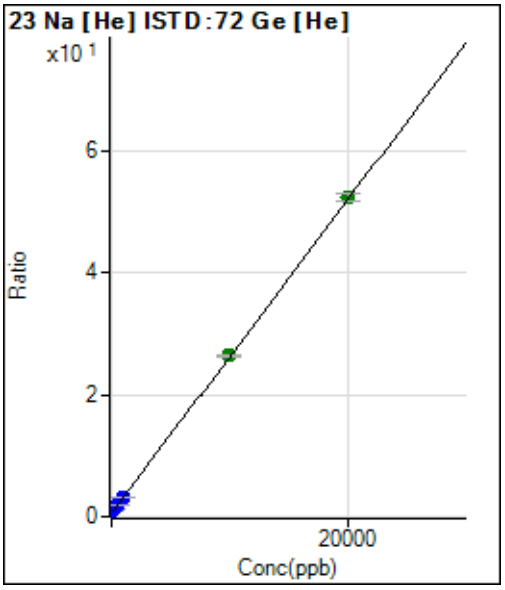
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	19672.55	0.0417	P	4.1	
2	☐	10.000	7.476	29932.16	0.0639	P	2.6	-25.2
3	☐	25.000	20.932	48309.76	0.1038	P	2.2	-16.3
4	☐	50.000	42.640	78119.72	0.1682	P	2.3	-14.7
5	☐	500.000	468.420	627676.03	1.4311	P	1.1	-6.3
6	☐	1000.000	1016.285	1230798.63	3.0561	P	1.9	1.6
7	☐	5.000						

y = 0.0030 * x + 0.0417
R = 0.9993
DL = 1.74 ppb
BEC = 14.06 ppb

Weight: <None>
Min Conc: <None>

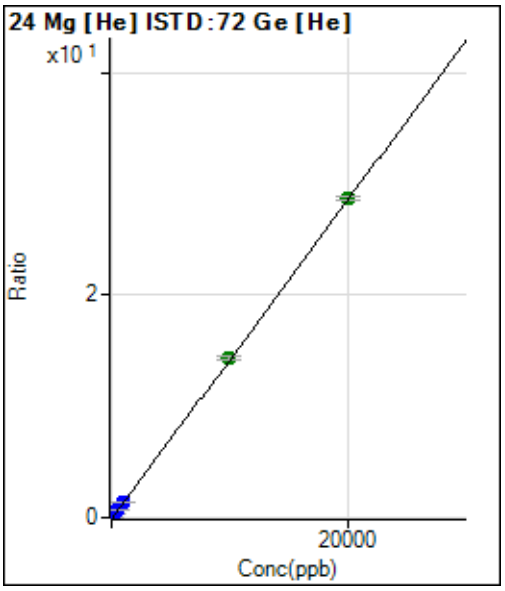


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	292680.42	0.8384	P	0.7	
2	☐	200.000	158.973	438884.39	1.2467	P	1.1	-20.5
3	☐	500.000	423.284	681152.41	1.9255	P	2.4	-15.3
4	☐	1000.000	857.824	1074162.04	3.0415	P	0.6	-14.2
5	☐	10000.00	9922.694	9127129.03	26.3221	A	1.1	-0.8
6	☐	20000.00	20048.09	17487699.32	52.3264	A	1.9	0.2
7	☐	100.000						

y = 0.0026 * x + 0.8384
R = 1.0000
DL = 6.948 ppb
BEC = 326.5 ppb

Weight: <None>
Min Conc: <None>

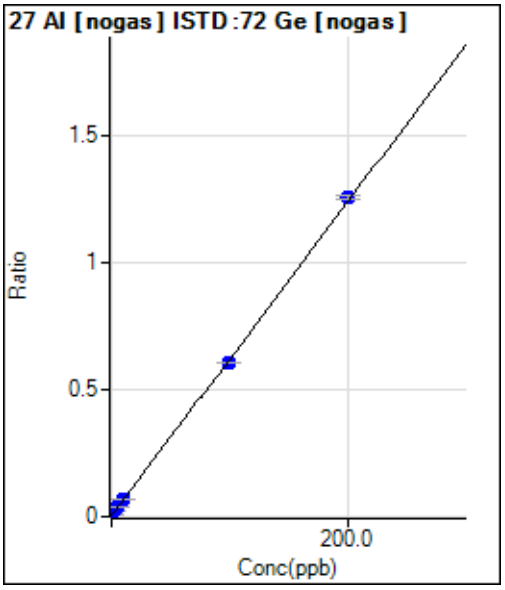
Calibration for 281_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5444.40	0.0156	P	7.1	
2	☐	200.000	178.385	95628.28	0.2717	P	2.3	-10.8
3	☐	500.000	446.282	232164.87	0.6563	P	0.1	-10.7
4	☐	1000.000	896.593	460077.28	1.3027	P	0.3	-10.3
5	☐	10000.00	9989.550	4977838.15	14.3562	A	2.3	-0.1
6	☐	20000.00	20011.95	9606138.19	28.7439	A	1.6	0.1
7	☐	100.000						

y = 0.0014 * x + 0.0156
R = 1.0000
DL = 2.322 ppb
BEC = 10.86 ppb

Weight: <None>
Min Conc: <None>

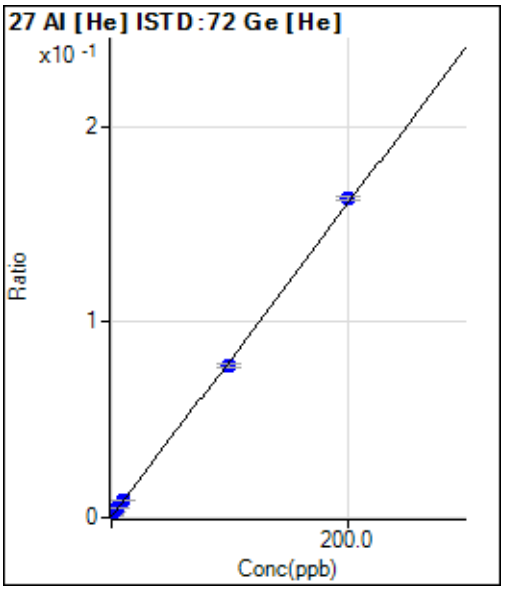


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	11484.51	0.0100	P	6.6	
2	☐	2.000	1.785	24199.30	0.0210	P	1.0	-10.8
3	☐	5.000	4.785	45403.88	0.0396	P	0.1	-4.3
4	☐	10.000	9.885	81273.81	0.0711	P	1.4	-1.1
5	☐	100.000	96.429	691979.81	0.6064	P	1.1	-3.6
6	☐	200.000	201.799	1377754.41	1.2582	P	1.5	0.9
7	☐	1.000						

y = 0.0062 * x + 0.0100
R = 0.9998
DL = 0.319 ppb
BEC = 1.613 ppb

Weight: <None>
Min Conc: <None>

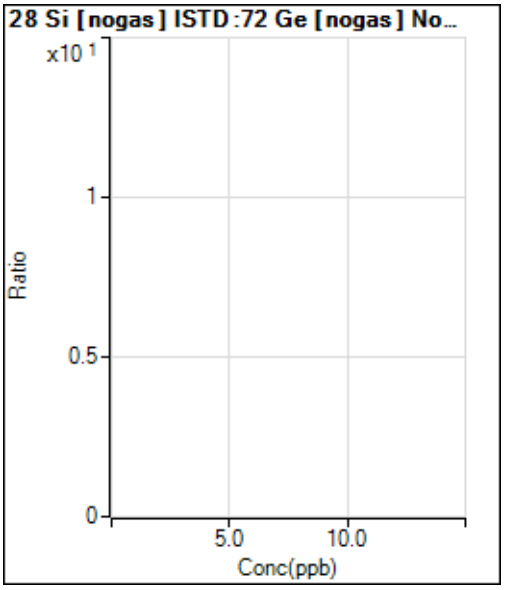
Calibration for 281_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	456.68	0.0013	P	28.1	
2	☐	2.000	2.352	1123.40	0.0032	P	6.3	17.6
3	☐	5.000	4.744	1806.81	0.0051	P	11.6	-5.1
4	☐	10.000	9.641	3187.05	0.0090	P	5.5	-3.6
5	☐	100.000	95.188	26860.55	0.0775	P	2.6	-4.8
6	☐	200.000	202.427	54570.11	0.1633	P	1.1	1.2
7	☐	1.000						

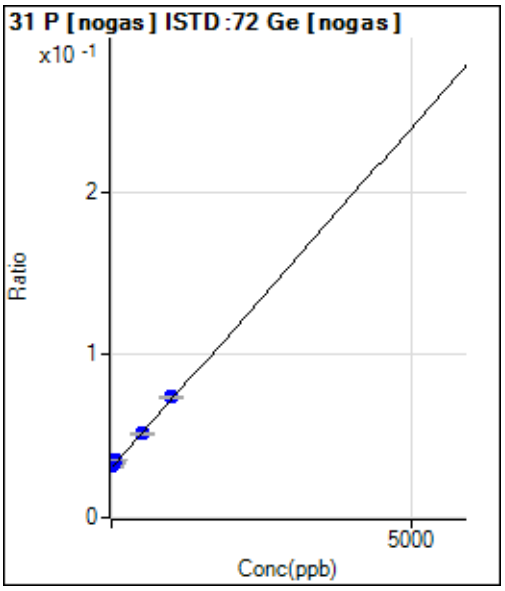
y = 8.0008E-004 * x + 0.0013
R = 0.9996
DL = 1.381 ppb
BEC = 1.638 ppb

Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000						
2	☐	100.000						
3	☐	250.000						
4	☐	500.000						
5	☐	5000.000						
6	☐	10000.00						
7	☐	50.000						

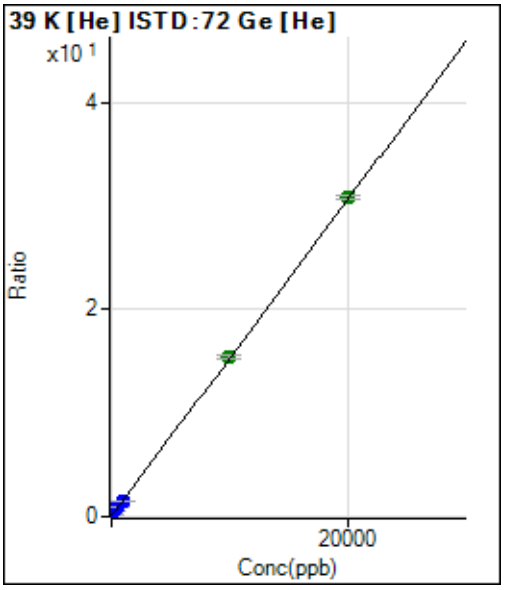
Calibration for 281_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	36463.71	0.0317	P	2.3	
2	☐	10.000	2.493	36593.98	0.0318	P	2.4	-75.1
3	☐	25.000	47.395	38625.75	0.0337	P	2.1	89.6
4	☐	50.000	90.307	40530.49	0.0355	P	1.2	80.6
5	☐	500.000	471.431	58729.16	0.0515	P	1.8	-5.7
6	☐	1000.000	1011.784	81201.04	0.0742	P	1.9	1.2
7	☐	5.000						

y = 4.1978E-005 * x + 0.0317
R = 0.9983
DL = 50.97 ppb
BEC = 754.7 ppb

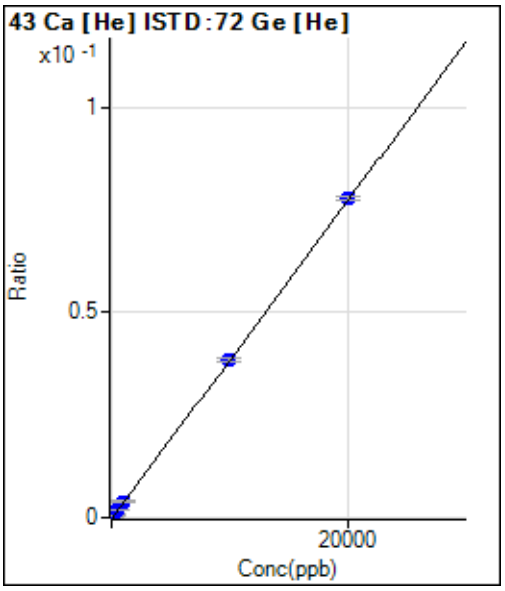
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	77894.92	0.2231	P	0.8	
2	☐	200.000	173.069	171598.12	0.4875	P	1.0	-13.5
3	☐	500.000	428.676	310556.67	0.8778	P	0.5	-14.3
4	☐	1000.000	867.294	546610.51	1.5477	P	0.5	-13.3
5	☐	10000.00	9933.315	5337829.09	15.3939	A	1.9	-0.7
6	☐	20000.00	20042.03	10304746.51	30.8326	A	0.7	0.2
7	☐	100.000						

y = 0.0015 * x + 0.2231
R = 1.0000
DL = 3.318 ppb
BEC = 146.1 ppb

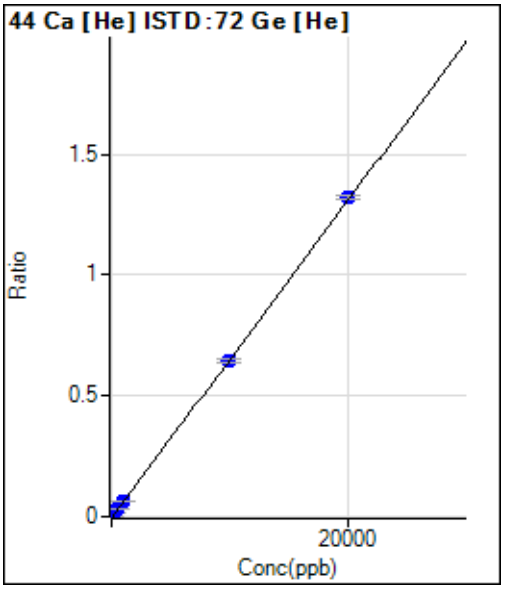
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	20.00	0.0001	P	49.0	
2	☐	200.000	163.636	243.34	0.0007	P	16.1	-18.2
3	☐	500.000	442.044	626.69	0.0018	P	8.0	-11.6
4	☐	1000.000	1002.724	1393.43	0.0039	P	7.1	0.3
5	☐	10000.00	9888.453	13316.02	0.0384	P	2.5	-1.1
6	☐	20000.00	20057.45	26015.81	0.0778	P	1.2	0.3
7	☐	100.000						

y = 3.8778E-006 * x + 5.7129E-005
R = 1.0000
DL = 21.68 ppb
BEC = 14.73 ppb

Weight: <None>
Min Conc: <None>

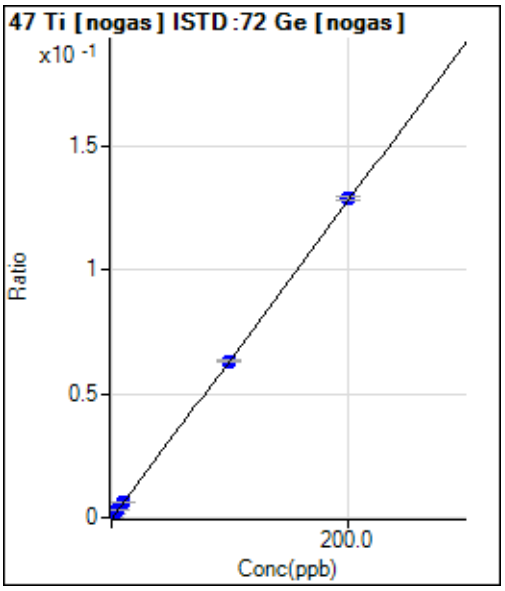


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	376.68	0.0011	P	3.8	
2	☐	200.000	184.122	4637.45	0.0132	P	1.6	-7.9
3	☐	500.000	483.245	11611.28	0.0328	P	1.6	-3.4
4	☐	1000.000	980.993	23137.93	0.0655	P	3.3	-1.9
5	☐	10000.00	9781.476	223164.32	0.6436	P	2.3	-2.2
6	☐	20000.00	20110.79	441826.66	1.3220	P	1.3	0.6
7	☐	100.000						

y = 6.5684E-005 * x + 0.0011
R = 0.9999
DL = 1.867 ppb
BEC = 16.43 ppb

Weight: <None>
Min Conc: <None>

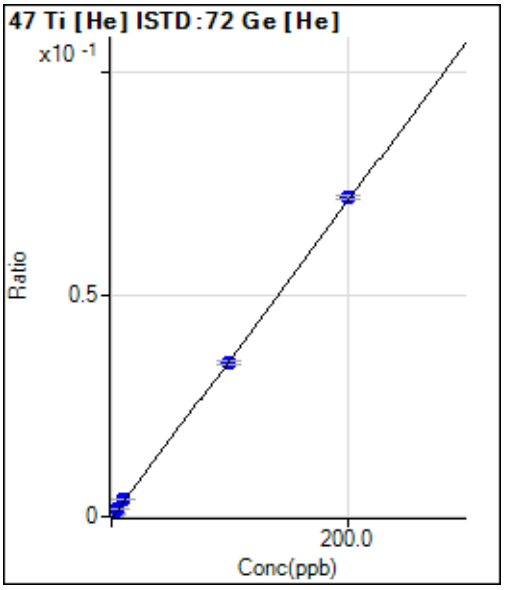
Calibration for 281_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	110.00	0.0001	P	24.1	
2	☐	2.000	1.913	1523.44	0.0013	P	17.6	-4.3
3	☐	5.000	4.695	3563.82	0.0031	P	7.0	-6.1
4	☐	10.000	9.578	7128.46	0.0062	P	4.7	-4.2
5	☐	100.000	98.218	71973.54	0.0631	P	1.4	-1.8
6	☐	200.000	200.921	141178.14	0.1289	P	1.0	0.5
7	☐	1.000						

y = 6.4122E-004 * x + 9.5576E-005
R = 0.9999
DL = 0.1078 ppb
BEC = 0.1491 ppb

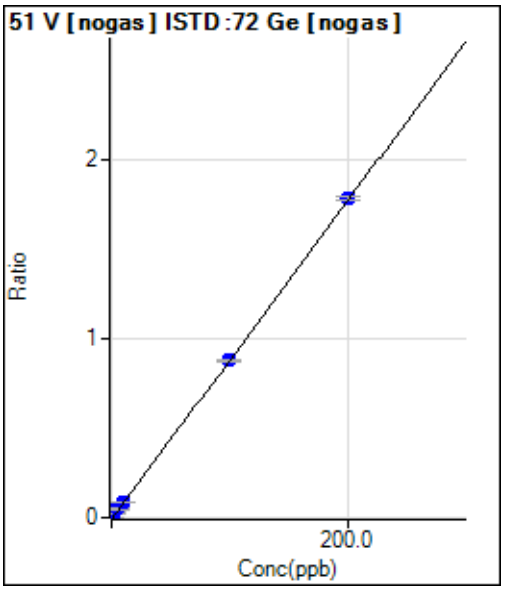
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6.67	0.0000	P	173.2	
2	☐	2.000	1.725	223.34	0.0006	P	37.9	-13.7
3	☐	5.000	4.756	606.69	0.0017	P	11.0	-4.9
4	☐	10.000	10.930	1383.42	0.0039	P	6.1	9.3
5	☐	100.000	96.963	11998.29	0.0346	P	2.1	-3.0
6	☐	200.000	201.481	24022.65	0.0719	P	1.4	0.7
7	☐	1.000						

y = 3.5662E-004 * x + 1.9181E-005
R = 0.9998
DL = 0.2795 ppb
BEC = 0.05378 ppb

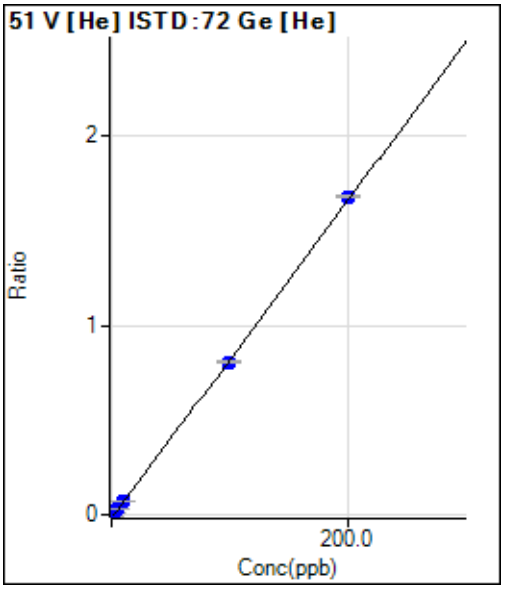
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-561.31	-0.0005	P	-707.	
2	☐	2.000	2.870	28827.14	0.0251	P	32.1	43.5
3	☐	5.000	5.503	55634.36	0.0485	P	12.5	10.1
4	☐	10.000	9.296	94021.26	0.0823	P	2.9	-7.0
5	☐	100.000	98.977	1004854.24	0.8806	P	1.3	-1.0
6	☐	200.000	200.526	1954190.20	1.7846	P	1.1	0.3
7	☐	1.000						

y = 0.0089 * x - 4.8579E-004
R = 1.0000
DL = 1.159 ppb
BEC = -0.05457 ppb

Weight: <None>
Min Conc: <None>

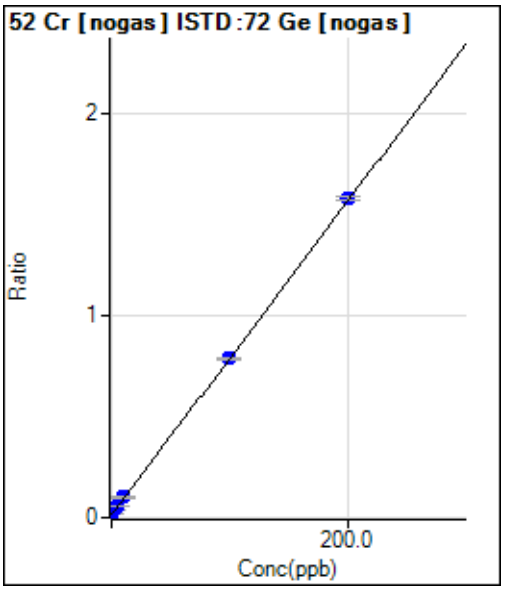


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-1931.62	-0.0056	P	-47.4	
2	☐	2.000	2.483	5363.99	0.0152	P	10.2	24.2
3	☐	5.000	5.076	13064.67	0.0369	P	10.6	1.5
4	☐	10.000	9.855	27165.90	0.0769	P	4.1	-1.5
5	☐	100.000	97.405	280745.78	0.8096	P	0.6	-2.6
6	☐	200.000	201.298	561162.14	1.6791	P	0.8	0.6
7	☐	1.000						

y = 0.0084 * x - 0.0056
R = 0.9999
DL = 0.9438 ppb
BEC = -0.6633 ppb

Weight: <None>
Min Conc: <None>

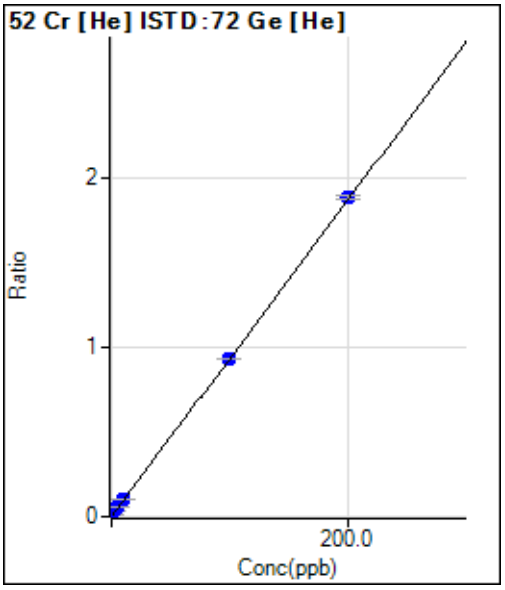
Calibration for 281_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	24263.09	0.0211	P	4.4	
2	☐	2.000	2.097	43018.22	0.0374	P	2.3	4.9
3	☐	5.000	5.045	69104.42	0.0602	P	2.2	0.9
4	☐	10.000	10.225	114779.83	0.1004	P	2.6	2.2
5	☐	100.000	98.468	896091.36	0.7853	P	1.7	-1.5
6	☐	200.000	200.752	1729204.35	1.5792	P	0.9	0.4
7	☐	1.000						

y = 0.0078 * x + 0.0211
R = 1.0000
DL = 0.3601 ppb
BEC = 2.716 ppb

Weight: <None>
Min Conc: <None>

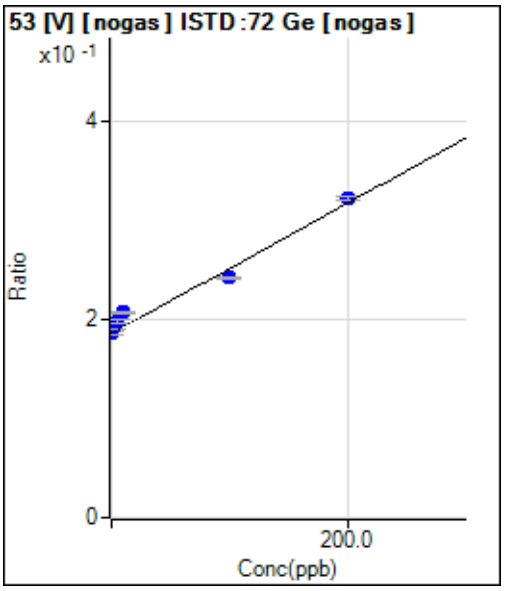


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4037.27	0.0116	P	4.6	
2	☐	2.000	1.984	10593.95	0.0301	P	4.5	-0.8
3	☐	5.000	4.989	20581.00	0.0582	P	1.7	-0.2
4	☐	10.000	10.032	37182.66	0.1053	P	1.5	0.3
5	☐	100.000	98.455	322932.36	0.9313	P	0.3	-1.5
6	☐	200.000	200.771	630682.57	1.8870	P	0.7	0.4
7	☐	1.000						

y = 0.0093 * x + 0.0116
R = 1.0000
DL = 0.1705 ppb
BEC = 1.238 ppb

Weight: <None>
Min Conc: <None>

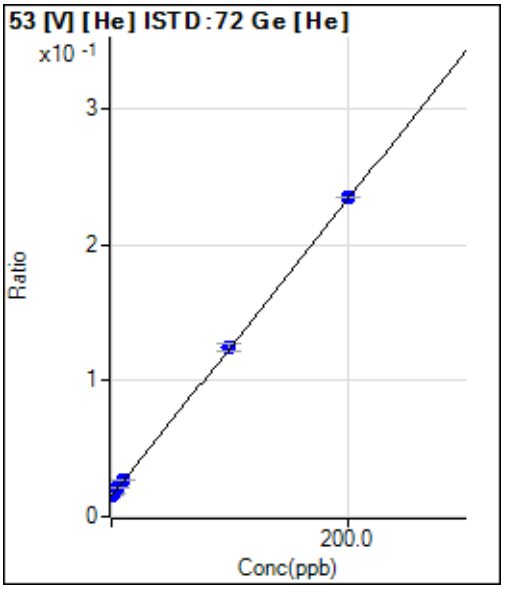
Calibration for 281_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	215063.09	0.1868	P	1.9	
2	☐	2.000	7.700	220982.57	0.1919	P	1.7	285.0
3	☐	5.000	17.788	227779.50	0.1985	P	1.5	255.8
4	☐	10.000	30.945	236777.61	0.2072	P	1.0	209.4
5	☐	100.000	84.995	276996.16	0.2427	P	0.8	-15.0
6	☐	200.000	206.079	353020.97	0.3224	P	0.8	3.0
7	☐	1.000						

y = 6.5773E-004 * x + 0.1868
R = 0.9892
DL = 16.59 ppb
BEC = 284.1 ppb

Weight: <None>
Min Conc: <None>

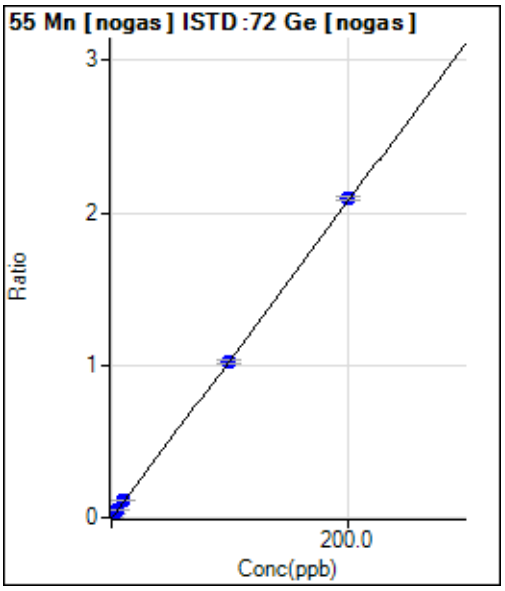


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5654.51	0.0162	P	7.9	
2	☐	2.000	0.852	6031.32	0.0171	P	5.1	-57.4
3	☐	5.000	4.584	7505.35	0.0212	P	5.9	-8.3
4	☐	10.000	9.558	9413.09	0.0267	P	3.0	-4.4
5	☐	100.000	99.346	43265.46	0.1248	P	3.7	-0.7
6	☐	200.000	200.371	78606.87	0.2352	P	0.6	0.2
7	☐	1.000						

y = 0.0011 * x + 0.0162
R = 1.0000
DL = 3.493 ppb
BEC = 14.83 ppb

Weight: <None>
Min Conc: <None>

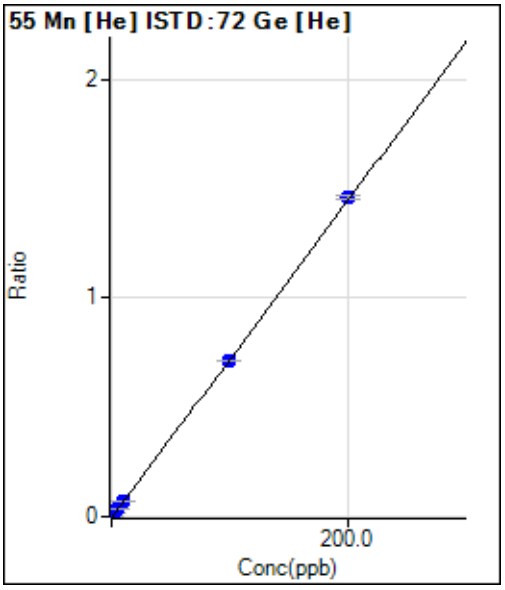
Calibration for 281_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5891.24	0.0051	P	1.7	
2	☐	2.000	1.915	28827.71	0.0250	P	1.6	-4.3
3	☐	5.000	4.867	63955.61	0.0557	P	2.5	-2.7
4	☐	10.000	9.945	124060.04	0.1086	P	1.4	-0.5
5	☐	100.000	97.891	1167707.22	1.0233	P	1.6	-2.1
6	☐	200.000	201.062	2295652.26	2.0965	P	0.6	0.5
7	☐	1.000						

y = 0.0104 * x + 0.0051
R = 0.9999
DL = 0.0253 ppb
BEC = 0.4921 ppb

Weight: <None>
Min Conc: <None>

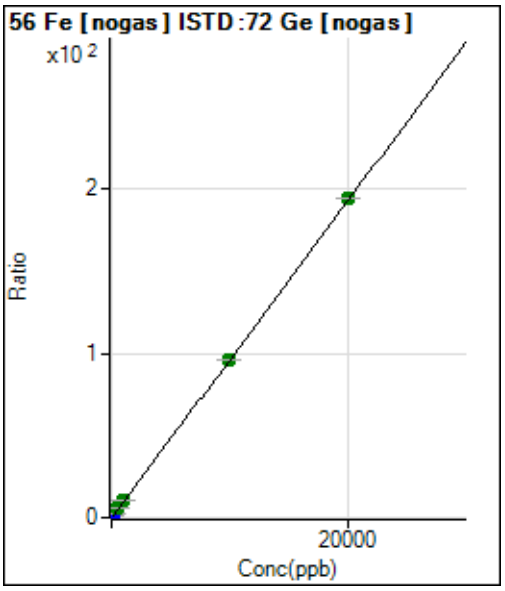


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	273.34	0.0008	P	15.0	
2	☐	2.000	1.973	5321.03	0.0151	P	7.5	-1.4
3	☐	5.000	4.927	12939.07	0.0366	P	1.8	-1.5
4	☐	10.000	9.492	24627.17	0.0697	P	2.6	-5.1
5	☐	100.000	97.793	246587.67	0.7111	P	0.6	-2.2
6	☐	200.000	201.131	488541.44	1.4618	P	0.9	0.6
7	☐	1.000						

y = 0.0073 * x + 7.8314E-004
R = 0.9999
DL = 0.04851 ppb
BEC = 0.1078 ppb

Weight: <None>
Min Conc: <None>

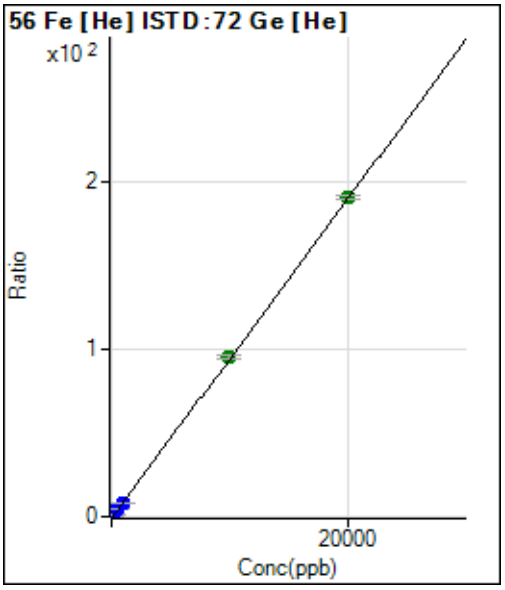
Calibration for 281_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	710261.39	0.6171	P	0.3	
2	☐	200.000	175.589	2664104.33	2.3137	P	1.1	-12.2
3	☐	500.000	506.291	6320397.20	5.5091	A	1.1	1.3
4	☐	1000.000	1017.583	11941497.32	10.4495	A	1.5	1.8
5	☐	10000.00	9862.675	109448335.0	95.9155	A	0.5	-1.4
6	☐	20000.00	20067.87	213000450.1	194.523	A	0.5	0.3
7	☐	100.000						

y = 0.0097 * x + 0.6171
R = 1.0000
DL = 0.5466 ppb
BEC = 63.86 ppb

Weight: <None>
Min Conc: <None>

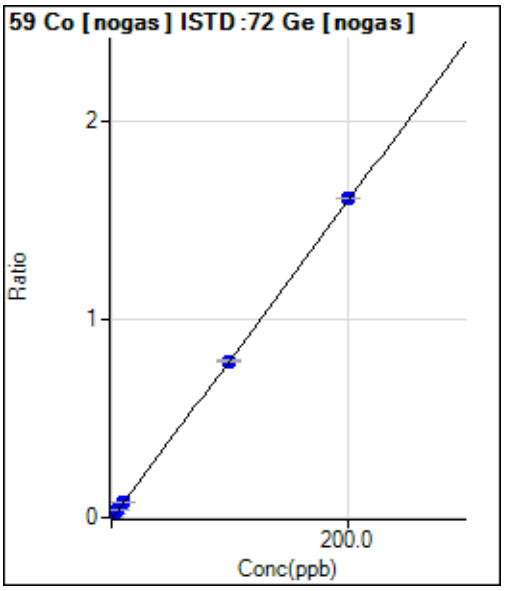


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10557.19	0.0302	P	7.3	
2	☐	200.000	172.146	587421.97	1.6688	P	2.0	-13.9
3	☐	500.000	435.296	1476494.56	4.1736	P	0.5	-12.9
4	☐	1000.000	865.055	2918682.98	8.2642	P	0.4	-13.5
5	☐	10000.00	10011.03	33051394.51	95.3197	A	1.6	0.1
6	☐	20000.00	20003.12	63642944.05	190.428	A	0.7	0.0
7	☐	100.000						

y = 0.0095 * x + 0.0302
R = 1.0000
DL = 0.6957 ppb
BEC = 3.177 ppb

Weight: <None>
Min Conc: <None>

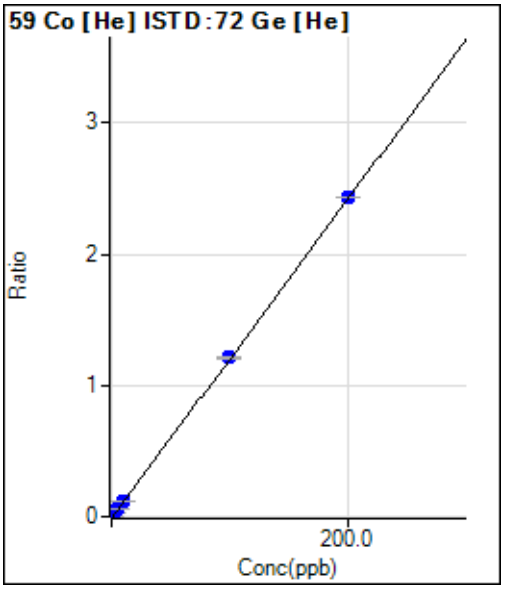
Calibration for 281_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	150.00	0.0001	P	17.7	
2	☐	2.000	1.924	17927.65	0.0156	P	2.7	-3.8
3	☐	5.000	4.984	46040.59	0.0401	P	1.6	-0.3
4	☐	10.000	9.969	91580.43	0.0801	P	0.9	-0.3
5	☐	100.000	98.474	901988.63	0.7905	P	1.8	-1.5
6	☐	200.000	200.766	1764515.70	1.6115	P	0.2	0.4
7	☐	1.000						

y = 0.0080 * x + 1.3033E-004
R = 1.0000
DL = 0.008639 ppb
BEC = 0.01624 ppb

Weight: <None>
Min Conc: <None>

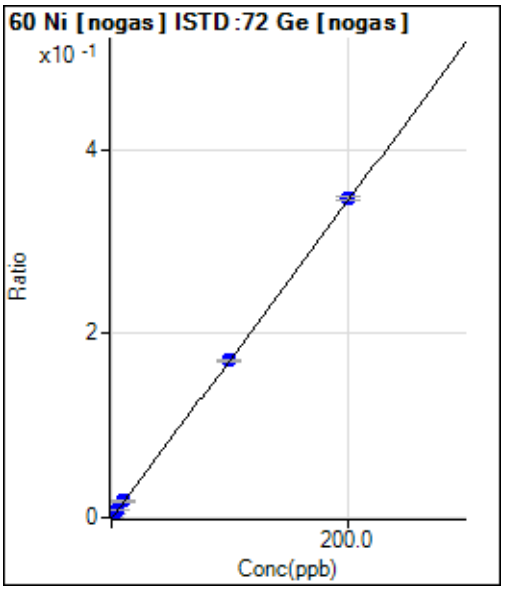


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	33.33	0.0001	P	16.1	
2	☐	2.000	1.973	8472.50	0.0241	P	2.8	-1.3
3	☐	5.000	4.959	21348.76	0.0603	P	1.9	-0.8
4	☐	10.000	9.870	42390.04	0.1200	P	0.9	-1.3
5	☐	100.000	99.612	419726.17	1.2104	P	0.6	-0.4
6	☐	200.000	200.202	813025.74	2.4327	P	0.6	0.1
7	☐	1.000						

y = 0.0122 * x + 9.5368E-005
R = 1.0000
DL = 0.003784 ppb
BEC = 0.007849 ppb

Weight: <None>
Min Conc: <None>

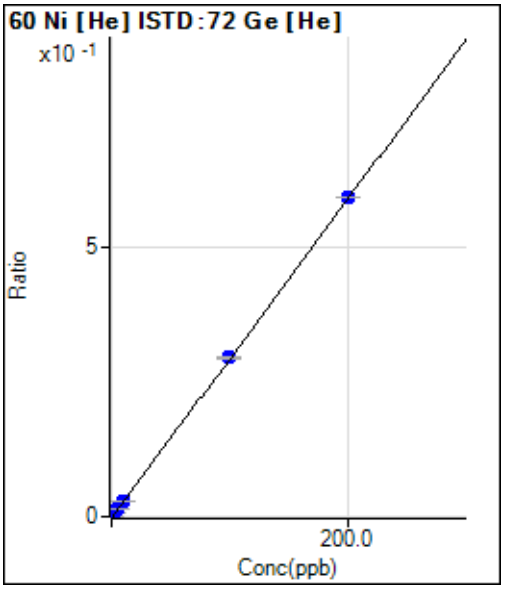
Calibration for 281_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	650.03	0.0006	P	10.9	
2	☐	2.000	1.884	4397.39	0.0038	P	0.8	-5.8
3	☐	5.000	4.887	10330.42	0.0090	P	2.8	-2.3
4	☐	10.000	9.976	20330.66	0.0178	P	1.2	-0.2
5	☐	100.000	98.598	194932.39	0.1708	P	1.5	-1.4
6	☐	200.000	200.706	380147.86	0.3472	P	1.0	0.4
7	☐	1.000						

y = 0.0017 * x + 5.6477E-004
R = 1.0000
DL = 0.1066 ppb
BEC = 0.327 ppb

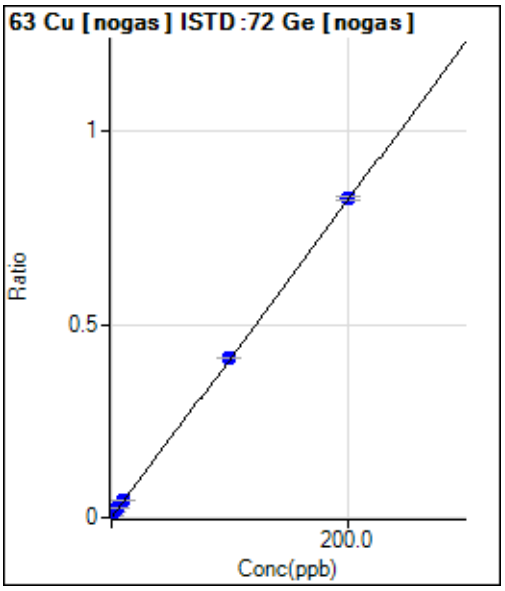
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	133.33	0.0004	P	57.9	
2	☐	2.000	1.948	2163.54	0.0061	P	6.6	-2.6
3	☐	5.000	4.898	5264.36	0.0149	P	0.9	-2.0
4	☐	10.000	9.966	10553.90	0.0299	P	1.0	-0.3
5	☐	100.000	99.705	102464.16	0.2955	P	1.8	-0.3
6	☐	200.000	200.152	198137.89	0.5928	P	0.3	0.1
7	☐	1.000						

y = 0.0030 * x + 3.8369E-004
R = 1.0000
DL = 0.2253 ppb
BEC = 0.1296 ppb

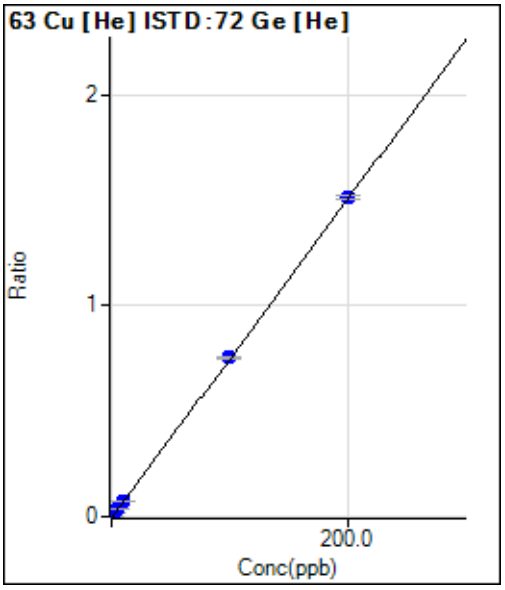
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5237.68	0.0046	P	2.6	
2	☐	2.000	1.990	14657.44	0.0127	P	3.5	-0.5
3	☐	5.000	5.017	28874.75	0.0252	P	1.3	0.3
4	☐	10.000	10.205	53124.29	0.0465	P	2.4	2.0
5	☐	100.000	99.457	471579.50	0.4133	P	0.3	-0.5
6	☐	200.000	200.261	906167.72	0.8275	P	1.2	0.1
7	☐	1.000						

y = 0.0041 * x + 0.0046
R = 1.0000
DL = 0.08685 ppb
BEC = 1.107 ppb

Weight: <None>
Min Conc: <None>

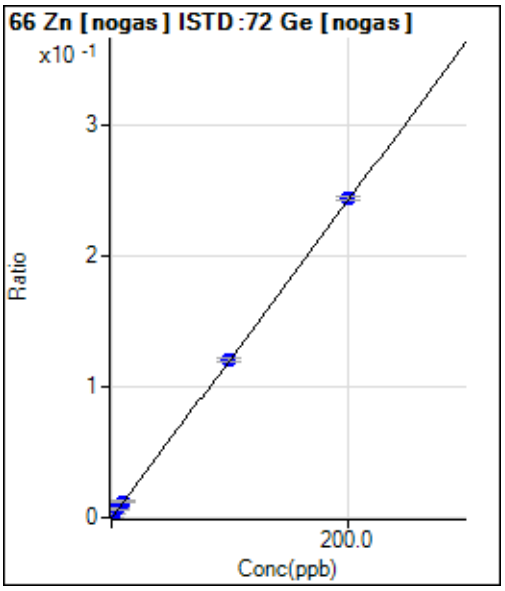


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	250.01	0.0007	P	24.7	
2	☐	2.000	2.066	5754.54	0.0163	P	3.4	3.3
3	☐	5.000	4.962	13536.31	0.0383	P	2.7	-0.8
4	☐	10.000	10.042	27088.11	0.0767	P	2.3	0.4
5	☐	100.000	99.669	261754.29	0.7549	P	0.8	-0.3
6	☐	200.000	200.164	506404.75	1.5153	P	1.3	0.1
7	☐	1.000						

y = 0.0076 * x + 7.1725E-004
R = 1.0000
DL = 0.07037 ppb
BEC = 0.09479 ppb

Weight: <None>
Min Conc: <None>

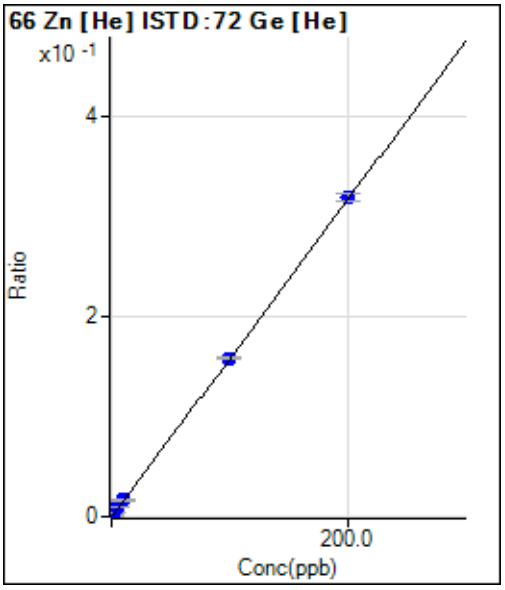
Calibration for 281_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	780.04	0.0007	P	2.5	
2	☐	2.000	2.025	3603.84	0.0031	P	6.0	1.2
3	☐	5.000	4.895	7578.67	0.0066	P	4.8	-2.1
4	☐	10.000	9.729	14240.29	0.0125	P	1.6	-2.7
5	☐	100.000	98.812	137347.81	0.1204	P	1.5	-1.2
6	☐	200.000	200.610	266831.64	0.2437	P	1.3	0.3
7	☐	1.000						

y = 0.0012 * x + 6.7767E-004
R = 1.0000
DL = 0.04137 ppb
BEC = 0.5595 ppb

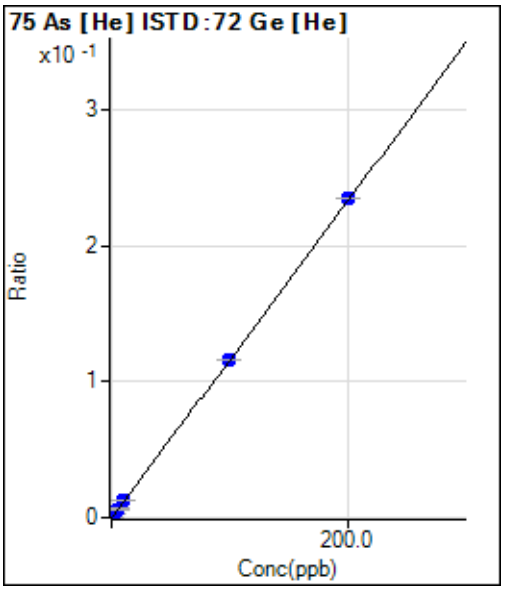
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	343.35	0.0010	P	22.3	
2	☐	2.000	1.895	1406.76	0.0040	P	3.9	-5.3
3	☐	5.000	5.153	3247.08	0.0092	P	2.4	3.1
4	☐	10.000	9.705	5797.90	0.0164	P	5.1	-3.0
5	☐	100.000	99.104	54994.45	0.1586	P	1.3	-0.9
6	☐	200.000	200.460	106875.57	0.3198	P	1.9	0.2
7	☐	1.000						

y = 0.0016 * x + 9.8185E-004
R = 1.0000
DL = 0.4136 ppb
BEC = 0.6173 ppb

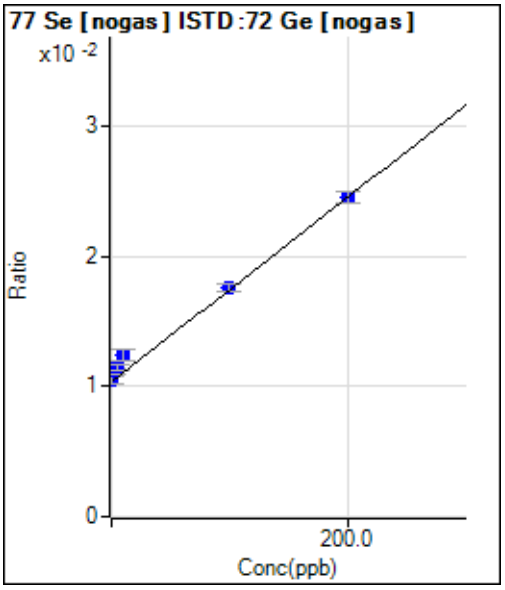
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	215.56	0.0006	P	9.4	
2	☐	2.000	2.068	1068.93	0.0030	P	3.1	3.4
3	☐	5.000	4.893	2243.52	0.0063	P	1.4	-2.1
4	☐	10.000	9.982	4342.87	0.0123	P	0.5	-0.2
5	☐	100.000	98.592	40211.85	0.1160	P	0.2	-1.4
6	☐	200.000	200.707	78686.32	0.2354	P	0.2	0.4
7	☐	1.000						

y = 0.0012 * x + 6.1787E-004
R = 1.0000
DL = 0.1492 ppb
BEC = 0.5281 ppb

Weight: <None>
Min Conc: <None>

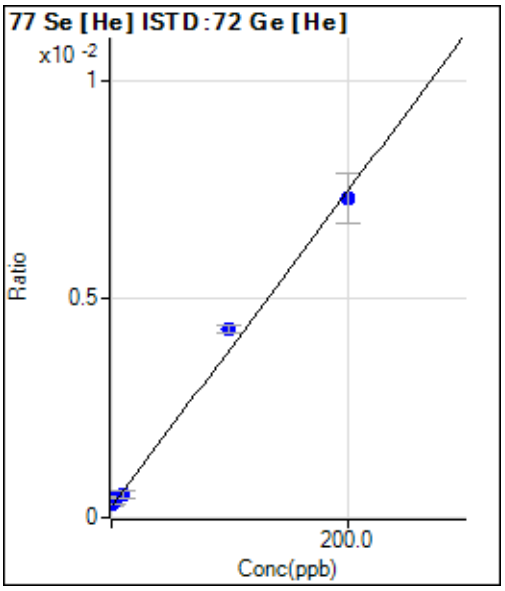


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	12078.43	0.0105	P	5.9	
2	☐	2.000	9.740	12879.11	0.0112	P	4.6	387.0
3	☐	5.000	14.308	13202.73	0.0115	P	4.5	186.2
4	☐	10.000	27.082	14190.31	0.0124	P	7.0	170.8
5	☐	100.000	100.479	20107.26	0.0176	P	3.4	0.5
6	☐	200.000	198.596	26921.43	0.0246	P	4.1	-0.7
7	☐	1.000						

y = 7.0932E-005 * x + 0.0105
R = 0.9973
DL = 26.4 ppb
BEC = 147.9 ppb

Weight: <None>
Min Conc: <None>

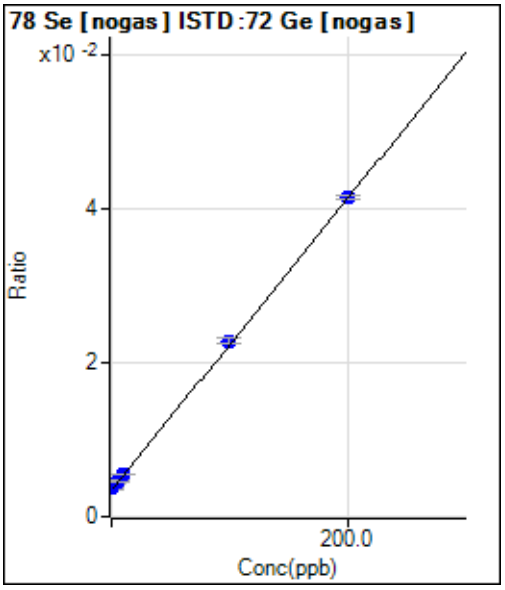
Calibration for 281_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	100.00	0.0003	P	25.6	
2	☐	2.000	2.338	130.00	0.0004	P	41.9	16.9
3	☐	5.000	5.132	166.67	0.0005	P	12.6	2.6
4	☐	10.000	6.725	186.67	0.0005	P	27.1	-32.8
5	☐	100.000	111.455	1493.44	0.0043	P	3.8	11.5
6	☐	200.000	194.430	2440.26	0.0073	P	15.7	-2.8
7	☐	1.000						

y = 3.6080E-005 * x + 2.8601E-004
R = 0.9974
DL = 6.097 ppb
BEC = 7.927 ppb

Weight: <None>
Min Conc: <None>

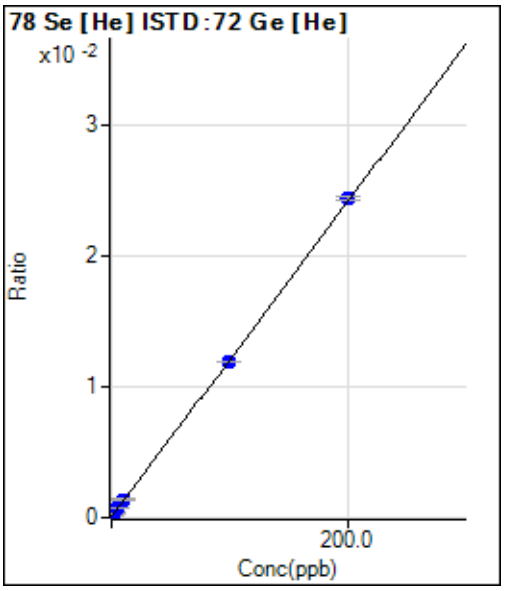


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4193.99	0.0036	P	6.7	
2	☐	2.000	3.443	4947.59	0.0043	P	1.8	72.2
3	☐	5.000	4.924	5251.02	0.0046	P	6.2	-1.5
4	☐	10.000	9.888	6304.77	0.0055	P	2.4	-1.1
5	☐	100.000	100.920	25983.09	0.0228	P	3.2	0.9
6	☐	200.000	199.533	45399.83	0.0415	P	1.0	-0.2
7	☐	1.000						

y = 1.8952E-004 * x + 0.0036
R = 1.0000
DL = 3.857 ppb
BEC = 19.23 ppb

Weight: <None>
Min Conc: <None>

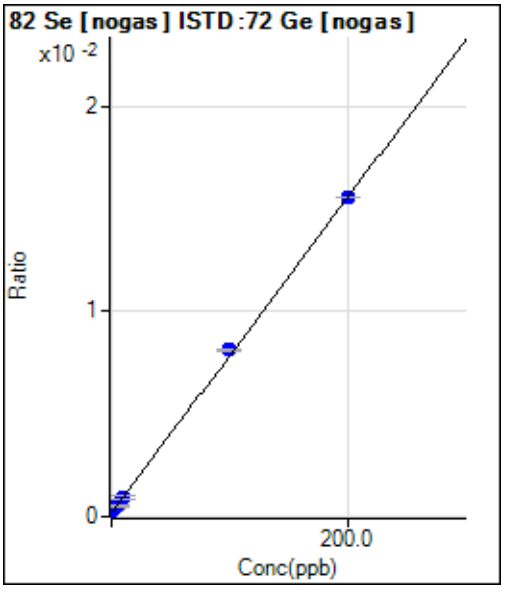
Calibration for 281_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	60.00	0.0002	P	25.7	
2	☐	2.000	1.524	125.33	0.0004	P	12.3	-23.8
3	☐	5.000	4.962	272.67	0.0008	P	4.8	-0.8
4	☐	10.000	10.106	491.34	0.0014	P	9.5	1.1
5	☐	100.000	97.696	4146.59	0.0120	P	0.2	-2.3
6	☐	200.000	201.152	8167.59	0.0244	P	1.3	0.6
7	☐	1.000						

y = 1.2064E-004 * x + 1.7200E-004
R = 0.9999
DL = 1.1 ppb
BEC = 1.426 ppb

Weight: <None>
Min Conc: <None>

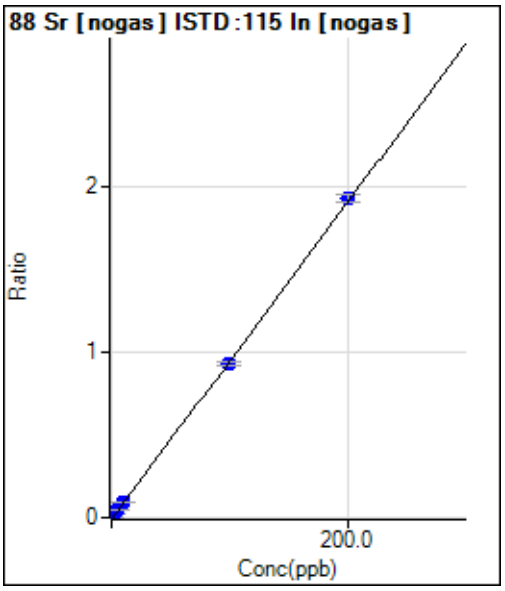


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	296.68	0.0003	P	10.9	
2	☐	2.000	1.917	466.68	0.0004	P	16.4	-4.1
3	☐	5.000	3.375	593.36	0.0005	P	27.0	-32.5
4	☐	10.000	9.048	1090.07	0.0010	P	16.3	-9.5
5	☐	100.000	102.134	9256.37	0.0081	P	0.9	2.1
6	☐	200.000	199.022	17040.02	0.0156	P	0.0	-0.5
7	☐	1.000						

y = 7.6898E-005 * x + 2.5776E-004
R = 0.9999
DL = 1.096 ppb
BEC = 3.352 ppb

Weight: <None>
Min Conc: <None>

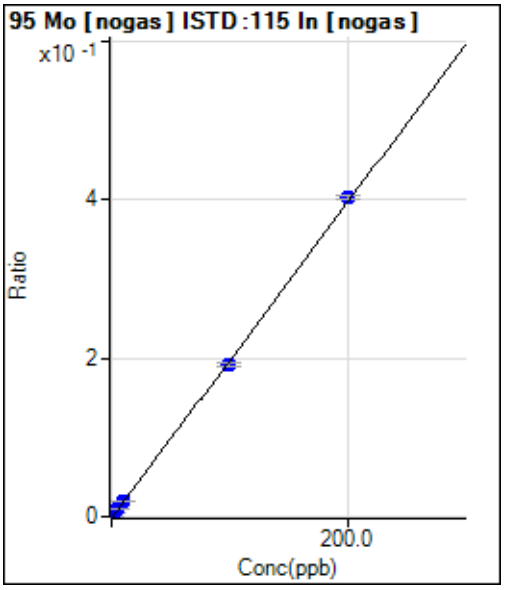
Calibration for 281_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	636.70	0.0004	P	30.4	
2	☐	2.000	1.870	27890.01	0.0183	P	2.8	-6.5
3	☐	5.000	4.608	67497.10	0.0445	P	2.7	-7.8
4	☐	10.000	9.538	137966.89	0.0916	P	2.1	-4.6
5	☐	100.000	97.290	1369838.21	0.9305	P	2.7	-2.7
6	☐	200.000	201.389	2701019.13	1.9257	P	1.9	0.7
7	☐	1.000						

y = 0.0096 * x + 4.2596E-004
R = 0.9999
DL = 0.04057 ppb
BEC = 0.04456 ppb

Weight: <None>
Min Conc: <None>

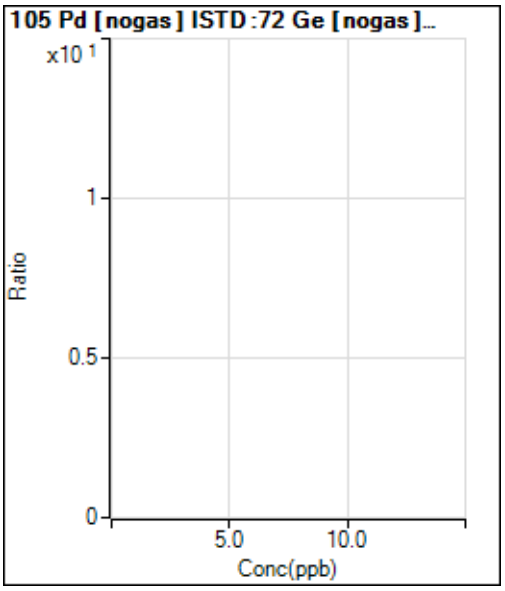


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	180.01	0.0001	P	9.7	
2	☐	2.000	1.810	5681.20	0.0037	P	3.2	-9.5
3	☐	5.000	4.514	13836.77	0.0091	P	3.4	-9.7
4	☐	10.000	9.393	28374.40	0.0188	P	3.0	-6.1
5	☐	100.000	96.070	282018.52	0.1916	P	3.5	-3.9
6	☐	200.000	202.010	564867.17	0.4027	P	1.6	1.0
7	☐	1.000						

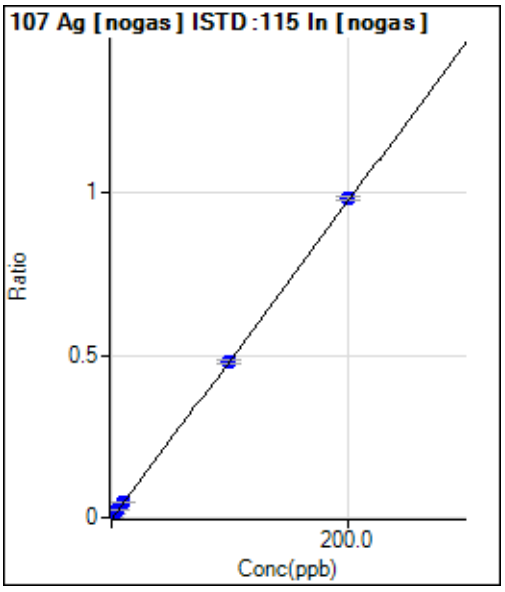
y = 0.0020 * x + 1.1996E-004
R = 0.9997
DL = 0.01746 ppb
BEC = 0.06019 ppb

Weight: <None>
Min Conc: <None>

Calibration for 281_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000						
2	☐	2.000						
3	☐	5.000						
4	☐	10.000						
5	☐	100.000						
6	☐	200.000						
7	☐	1.000						



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	76.67	0.0001	P	85.6	
2	☐	2.000	1.876	14077.07	0.0092	P	5.6	-6.2
3	☐	5.000	4.663	34728.51	0.0229	P	3.4	-6.7
4	☐	10.000	9.770	72138.11	0.0479	P	1.6	-2.3
5	☐	100.000	97.938	706187.18	0.4797	P	2.4	-2.1
6	☐	200.000	201.052	1381130.24	0.9847	P	1.8	0.5
7	☐	1.000						

y = 0.0049 * x + 5.0707E-005

R = 0.9999

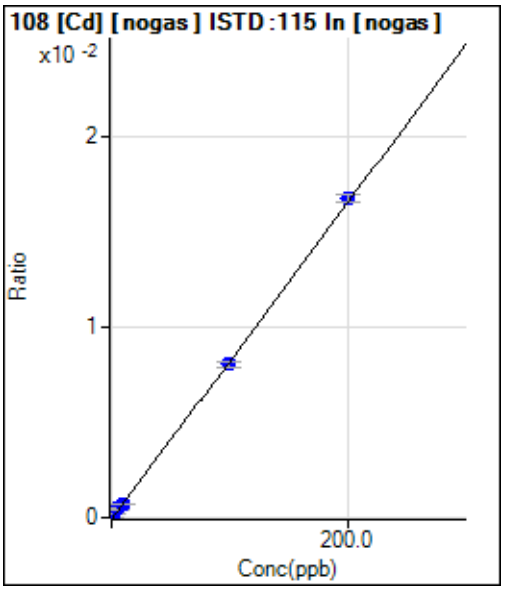
DL = 0.0266 ppb

BEC = 0.01035 ppb

Weight: <None>

Min Conc: <None>

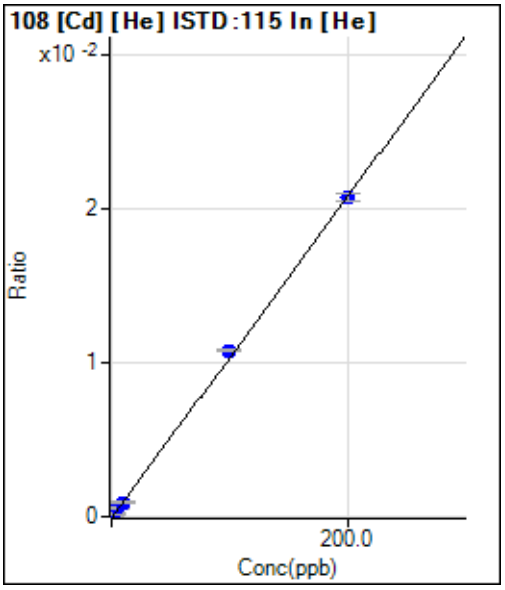
Calibration for 281_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3.33	0.0000	P	173.2	
2	☐	2.000	2.106	270.01	0.0002	P	16.6	5.3
3	☐	5.000	5.495	696.70	0.0005	P	9.8	9.9
4	☐	10.000	8.559	1073.39	0.0007	P	7.0	-14.4
5	☐	100.000	96.669	11815.02	0.0080	P	4.8	-3.3
6	☐	200.000	201.724	23489.27	0.0167	P	2.0	0.9
7	☐	1.000						

y = 8.3011E-005 * x + 2.2511E-006
R = 0.9998
DL = 0.1409 ppb
BEC = 0.02712 ppb

Weight: <None>
Min Conc: <None>

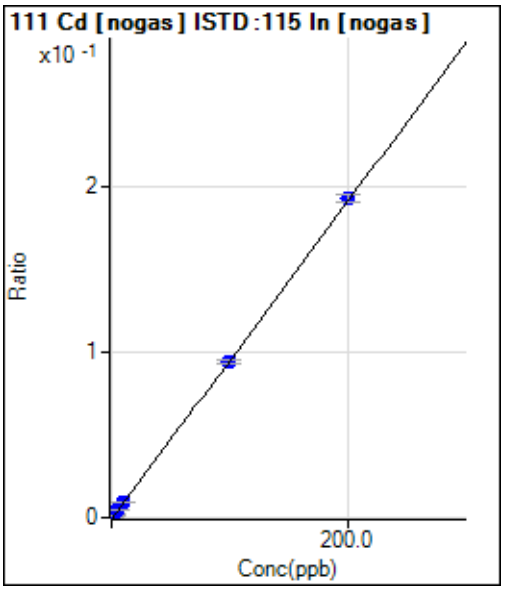


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6.67	0.0000	P	173.2	
2	☐	2.000	1.498	96.67	0.0002	P	41.7	-25.1
3	☐	5.000	5.340	330.01	0.0006	P	24.0	6.8
4	☐	10.000	8.805	536.69	0.0009	P	10.8	-11.9
5	☐	100.000	103.217	6071.39	0.0108	P	2.0	3.2
6	☐	200.000	198.448	11191.14	0.0208	P	2.2	-0.8
7	☐	1.000						

y = 1.0463E-004 * x + 1.1778E-005
R = 0.9998
DL = 0.5849 ppb
BEC = 0.1126 ppb

Weight: <None>
Min Conc: <None>

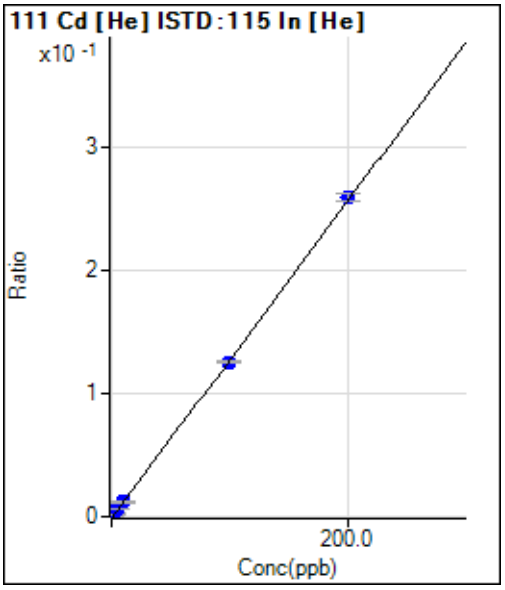
Calibration for 281_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16.42	0.0000	P	156.5	
2	☐	2.000	1.839	2710.65	0.0018	P	7.6	-8.0
3	☐	5.000	4.581	6697.83	0.0044	P	7.7	-8.4
4	☐	10.000	9.383	13605.97	0.0090	P	3.2	-6.2
5	☐	100.000	98.107	138903.55	0.0943	P	2.1	-1.9
6	☐	200.000	200.990	271097.09	0.1933	P	2.4	0.5
7	☐	1.000						

y = 9.6158E-004 * x + 1.0799E-005
R = 0.9999
DL = 0.05271 ppb
BEC = 0.01123 ppb

Weight: <None>
Min Conc: <None>

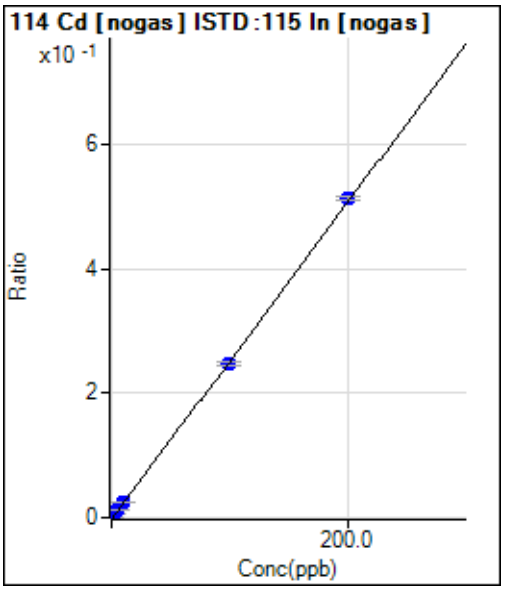


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	9.51	0.0000	P	98.0	
2	☐	2.000	1.922	1429.72	0.0025	P	19.8	-3.9
3	☐	5.000	4.736	3536.49	0.0061	P	4.7	-5.3
4	☐	10.000	9.210	6839.49	0.0119	P	5.1	-7.9
5	☐	100.000	97.523	70620.09	0.1258	P	1.1	-2.5
6	☐	200.000	201.286	139815.45	0.2595	P	2.0	0.6
7	☐	1.000						

y = 0.0013 * x + 1.6716E-005
R = 0.9999
DL = 0.03813 ppb
BEC = 0.01296 ppb

Weight: <None>
Min Conc: <None>

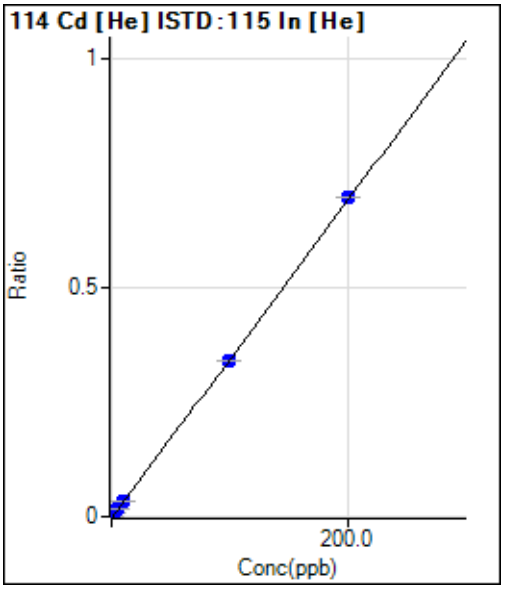
Calibration for 281_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	53.33	0.0000	P	21.4	
2	☐	2.000	1.896	7428.70	0.0049	P	4.3	-5.2
3	☐	5.000	4.729	18375.20	0.0121	P	2.5	-5.4
4	☐	10.000	9.543	36743.53	0.0244	P	3.2	-4.6
5	☐	100.000	97.056	364759.54	0.2478	P	3.2	-2.9
6	☐	200.000	201.503	721487.93	0.5144	P	1.7	0.8
7	☐	1.000						

y = 0.0026 * x + 3.5562E-005
R = 0.9999
DL = 0.008942 ppb
BEC = 0.01393 ppb

Weight: <None>
Min Conc: <None>

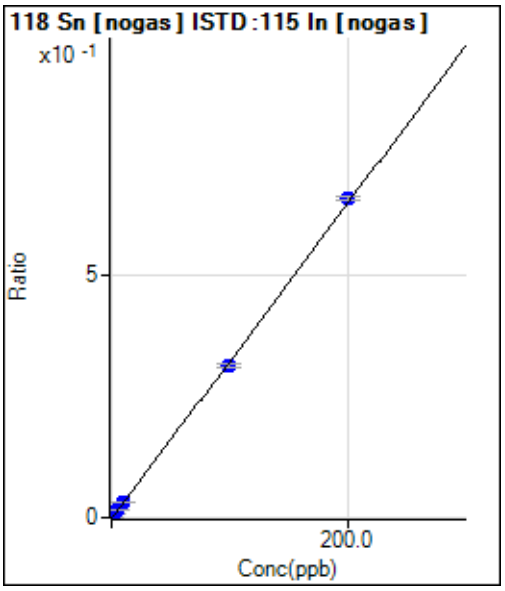


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	33.33	0.0001	P	75.9	
2	☐	2.000	1.981	3973.95	0.0069	P	3.7	-0.9
3	☐	5.000	4.857	9766.80	0.0169	P	1.6	-2.9
4	☐	10.000	9.384	18759.07	0.0326	P	2.4	-6.2
5	☐	100.000	98.254	191443.86	0.3409	P	0.2	-1.7
6	☐	200.000	200.907	375473.99	0.6970	P	0.2	0.5
7	☐	1.000						

y = 0.0035 * x + 5.8754E-005
R = 0.9999
DL = 0.03856 ppb
BEC = 0.01694 ppb

Weight: <None>
Min Conc: <None>

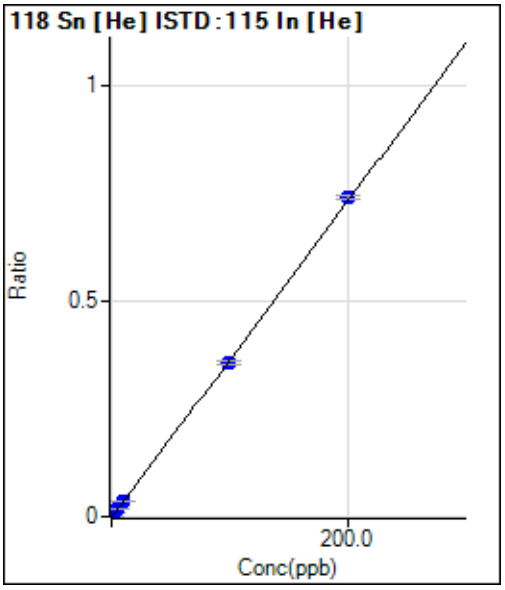
Calibration for 281_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1156.73	0.0008	P	13.3	
2	☐	2.000	1.794	10050.37	0.0066	P	4.1	-10.3
3	☐	5.000	4.540	23526.12	0.0155	P	4.2	-9.2
4	☐	10.000	9.463	47411.46	0.0315	P	2.8	-5.4
5	☐	100.000	95.816	458877.97	0.3117	P	2.2	-4.2
6	☐	200.000	202.133	921032.54	0.6567	P	1.3	1.1
7	☐	1.000						

y = 0.0032 * x + 7.7262E-004
R = 0.9997
DL = 0.09511 ppb
BEC = 0.2381 ppb

Weight: <None>
Min Conc: <None>

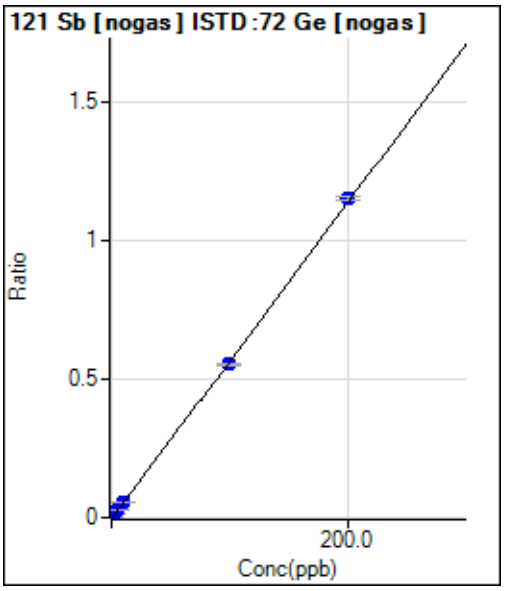


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	533.35	0.0009	P	11.4	
2	☐	2.000	1.738	4190.69	0.0073	P	5.3	-13.1
3	☐	5.000	4.721	10543.98	0.0183	P	1.5	-5.6
4	☐	10.000	9.495	20568.30	0.0358	P	4.0	-5.0
5	☐	100.000	97.124	200553.16	0.3572	P	1.7	-2.9
6	☐	200.000	201.473	398556.23	0.7399	P	0.9	0.7
7	☐	1.000						

y = 0.0037 * x + 9.3718E-004
R = 0.9999
DL = 0.08771 ppb
BEC = 0.2555 ppb

Weight: <None>
Min Conc: <None>

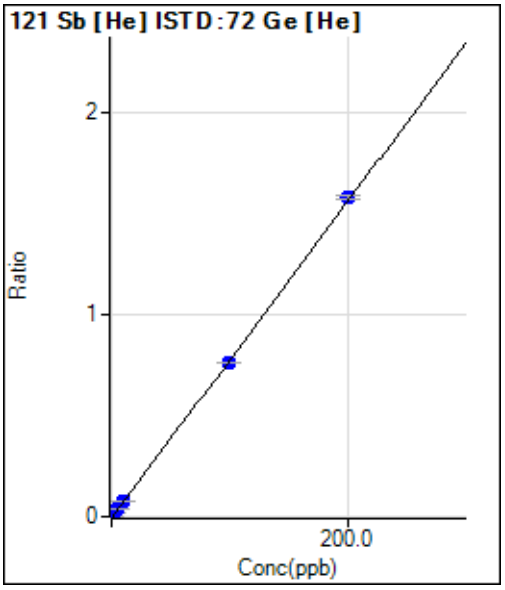
Calibration for 281_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1000.06	0.0009	P	7.9	
2	☐	2.000	1.836	13082.79	0.0114	P	0.0	-8.2
3	☐	5.000	4.690	31751.92	0.0277	P	3.0	-6.2
4	☐	10.000	9.618	63814.33	0.0558	P	1.8	-3.8
5	☐	100.000	96.609	631096.02	0.5531	P	1.1	-3.4
6	☐	200.000	201.724	1263527.14	1.1539	P	0.9	0.9
7	☐	1.000						

y = 0.0057 * x + 8.6887E-004
R = 0.9998
DL = 0.03606 ppb
BEC = 0.152 ppb

Weight: <None>
Min Conc: <None>

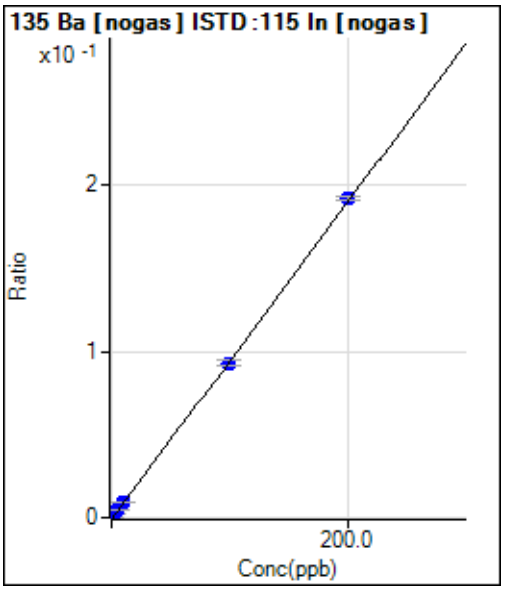


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	426.68	0.0012	P	20.1	
2	☐	2.000	1.795	5391.09	0.0153	P	5.4	-10.3
3	☐	5.000	4.651	13346.39	0.0377	P	2.9	-7.0
4	☐	10.000	9.265	26113.90	0.0739	P	2.0	-7.4
5	☐	100.000	96.972	264345.21	0.7624	P	0.9	-3.0
6	☐	200.000	201.561	529136.42	1.5833	P	1.1	0.8
7	☐	1.000						

y = 0.0078 * x + 0.0012
R = 0.9998
DL = 0.0941 ppb
BEC = 0.1559 ppb

Weight: <None>
Min Conc: <None>

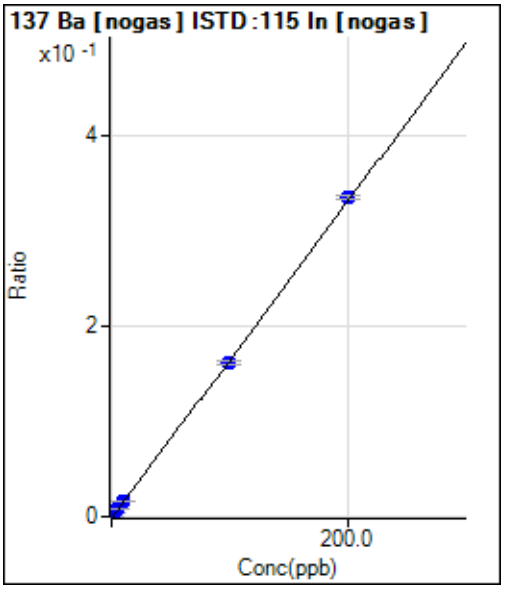
Calibration for 281_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	40.00	0.0000	P	44.5	
2	☐	2.000	1.856	2736.97	0.0018	P	3.9	-7.2
3	☐	5.000	4.520	6578.31	0.0043	P	4.2	-9.6
4	☐	10.000	9.446	13600.05	0.0090	P	2.8	-5.5
5	☐	100.000	97.408	136711.79	0.0929	P	3.8	-2.6
6	☐	200.000	201.337	269209.00	0.1919	P	0.7	0.7
7	☐	1.000						

y = 9.5318E-004 * x + 2.6767E-005
R = 0.9999
DL = 0.03749 ppb
BEC = 0.02808 ppb

Weight: <None>
Min Conc: <None>

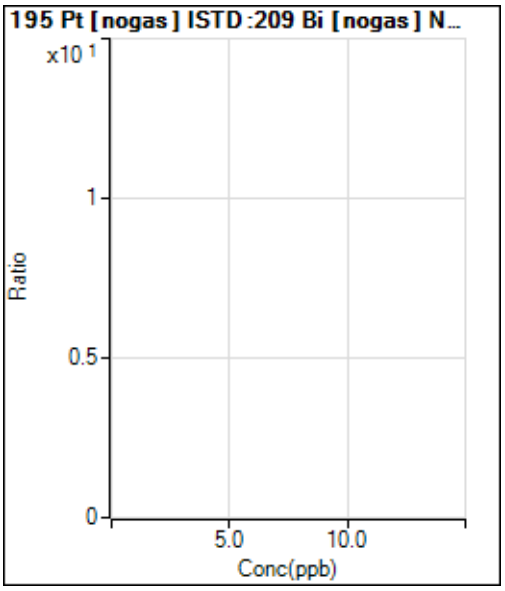


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	63.33	0.0000	P	18.0	
2	☐	2.000	1.952	5000.95	0.0033	P	4.3	-2.4
3	☐	5.000	4.585	11614.93	0.0077	P	0.1	-8.3
4	☐	10.000	9.627	24127.37	0.0160	P	1.1	-3.7
5	☐	100.000	96.935	236890.83	0.1609	P	2.7	-3.1
6	☐	200.000	201.562	469248.78	0.3346	P	1.4	0.8
7	☐	1.000						

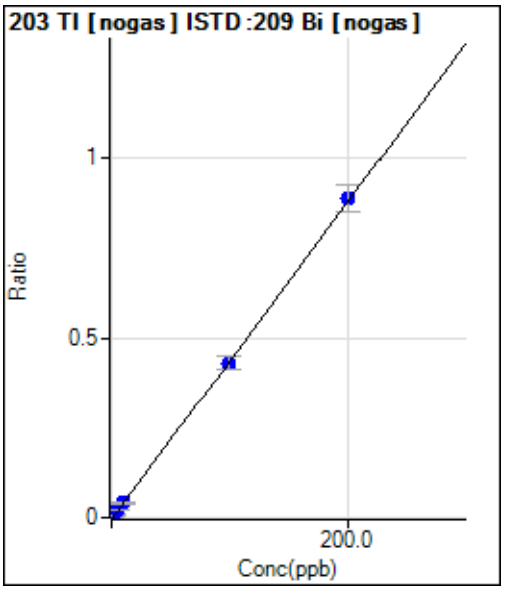
y = 0.0017 * x + 4.2233E-005
R = 0.9998
DL = 0.01372 ppb
BEC = 0.02545 ppb

Weight: <None>
Min Conc: <None>

Calibration for 281_ICV.d



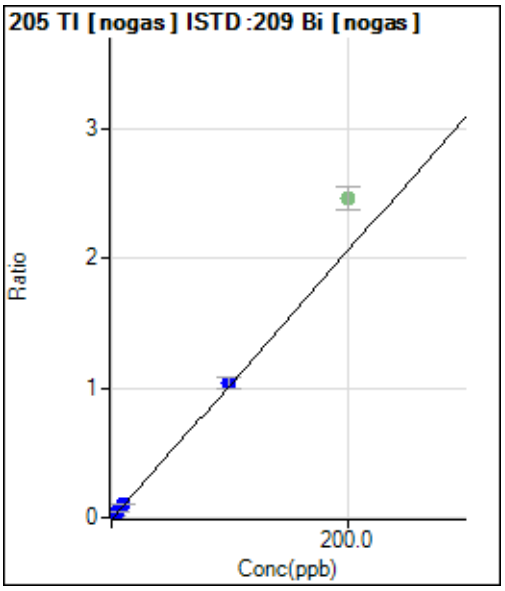
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000						
2	☐	2.000						
3	☐	5.000						
4	☐	10.000						
5	☐	100.000						
6	☐	200.000						
7	☐	1.000						



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	146.67	0.0001	P	42.6	
2	☐	2.000	1.859	13380.03	0.0083	P	11.7	-7.0
3	☐	5.000	4.600	33167.17	0.0204	P	7.8	-8.0
4	☐	10.000	9.388	67650.53	0.0415	P	7.0	-6.1
5	☐	100.000	97.446	682989.31	0.4298	P	8.3	-2.6
6	☐	200.000	201.319	1351671.07	0.8878	P	8.1	0.7
7	☐	1.000						

y = 0.0044 * x + 9.3054E-005
R = 0.9999
DL = 0.02698 ppb
BEC = 0.0211 ppb

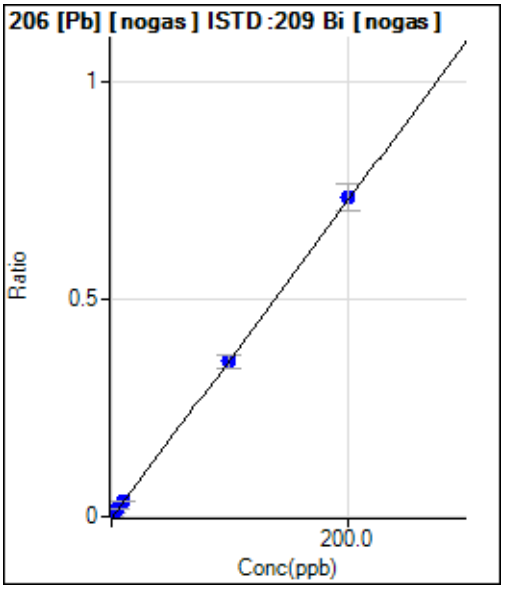
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	336.68	0.0002	P	21.1	
2	☐	2.000	1.858	31399.88	0.0194	P	9.8	-7.1
3	☐	5.000	4.701	79527.77	0.0489	P	7.8	-6.0
4	☐	10.000	9.684	163685.62	0.1004	P	7.7	-3.2
5	☐	100.000	100.049	1646063.93	1.0355	P	7.8	0.0
6	☑	200.000		3751804.22	2.4631	A	7.1	
7	☐	1.000						

y = 0.0103 * x + 2.1084E-004
R = 1.0000
DL = 0.0129 ppb
BEC = 0.02038 ppb

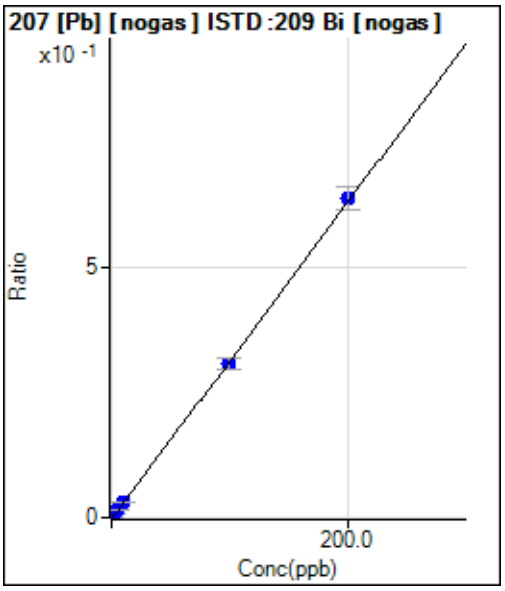
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	240.01	0.0002	P	30.8	
2	☐	2.000	1.929	11638.45	0.0072	P	10.9	-3.6
3	☐	5.000	4.702	28212.83	0.0174	P	10.4	-6.0
4	☐	10.000	9.516	56972.31	0.0350	P	8.8	-4.8
5	☐	100.000	97.796	568978.25	0.3580	P	8.0	-2.2
6	☐	200.000	201.134	1120583.65	0.7360	P	8.4	0.6
7	☐	1.000						

y = 0.0037 * x + 1.5138E-004
R = 0.9999
DL = 0.03818 ppb
BEC = 0.04138 ppb

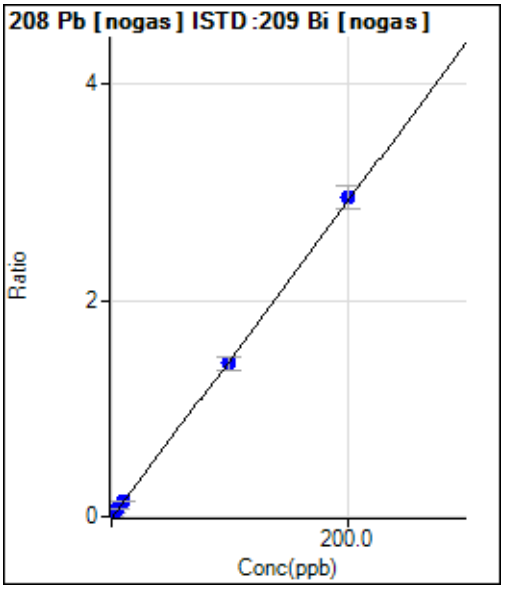
Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	156.67	0.0001	P	19.0	
2	☐	2.000	1.976	10277.38	0.0064	P	10.9	-1.2
3	☐	5.000	4.581	23811.08	0.0146	P	7.9	-8.4
4	☐	10.000	9.584	49747.44	0.0305	P	6.1	-4.2
5	☐	100.000	97.168	489975.70	0.3083	P	8.2	-2.8
6	☐	200.000	201.448	973346.00	0.6390	P	7.1	0.7
7	☐	1.000						

y = 0.0032 * x + 9.8199E-005
R = 0.9999
DL = 0.01769 ppb
BEC = 0.03096 ppb

Weight: <None>
Min Conc: <None>

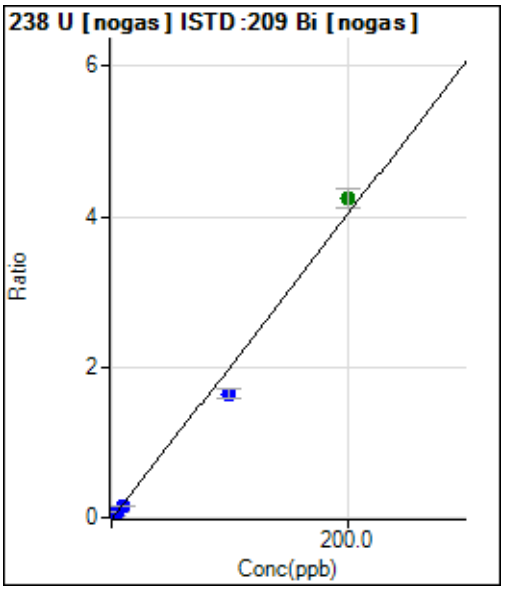


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	820.02	0.0005	P	22.0	
2	☐	2.000	1.904	45943.93	0.0284	P	8.1	-4.8
3	☐	5.000	4.656	111825.26	0.0688	P	9.5	-6.9
4	☐	10.000	9.509	227979.32	0.1399	P	7.8	-4.9
5	☐	100.000	96.818	2255967.21	1.4194	P	8.2	-3.2
6	☐	200.000	201.625	4500861.39	2.9554	P	7.5	0.8
7	☐	1.000						

y = 0.0147 * x + 5.1553E-004
R = 0.9998
DL = 0.02319 ppb
BEC = 0.03518 ppb

Weight: <None>
Min Conc: <None>

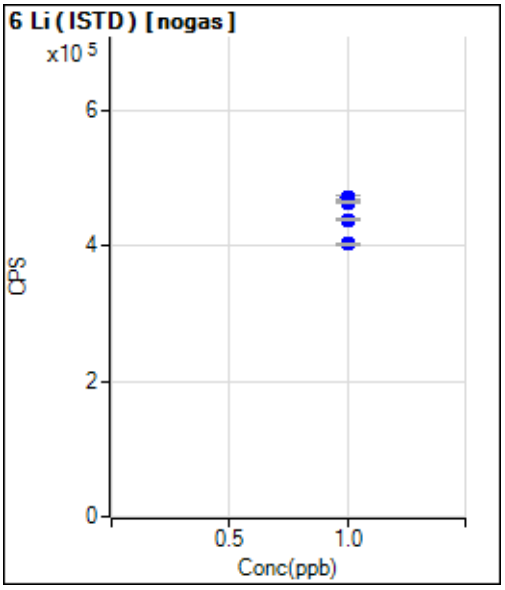
Calibration for 281_ICV.d



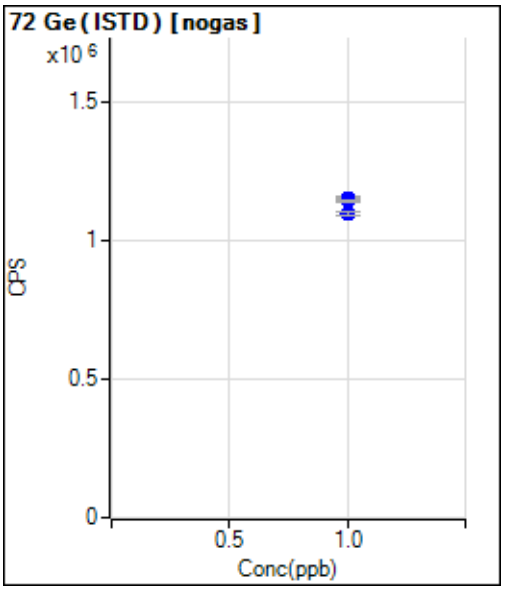
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	260.01	0.0002	P	14.6	
2	☐	2.000	1.520	50000.32	0.0309	P	9.7	-24.0
3	☐	5.000	3.843	126914.62	0.0780	P	9.2	-23.1
4	☐	10.000	7.839	259190.43	0.1590	P	7.2	-21.6
5	☐	100.000	81.321	2618237.67	1.6476	P	8.5	-18.7
6	☐	200.000	209.481	6465310.11	4.2439	A	6.6	4.7
7	☐	1.000						

y = 0.0203 * x + 1.6193E-004
R = 0.9943
DL = 0.003499 ppb
BEC = 0.007993 ppb

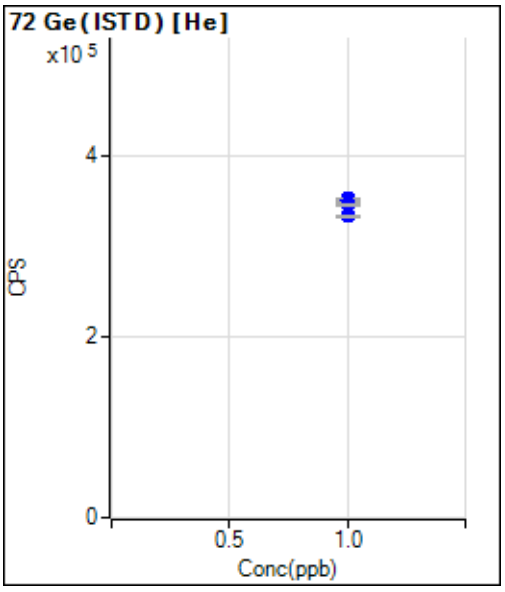
Weight: <None>
Min Conc: <None>



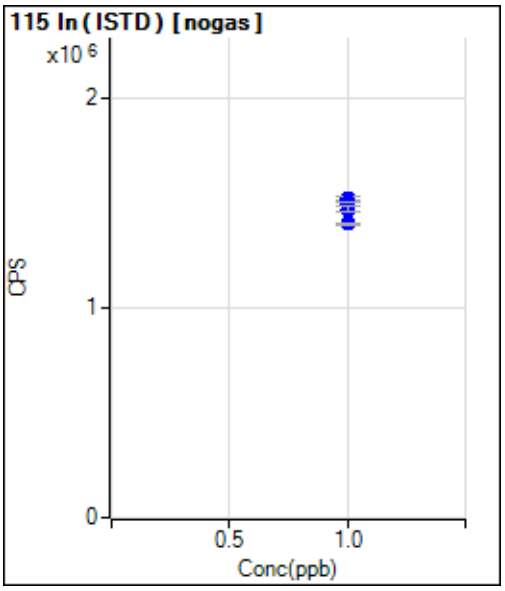
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		471871.67		P	0.7	
2	☐	1.000		468628.13		P	0.1	
3	☐	1.000		465486.62		P	0.3	
4	☐	1.000		464518.29		P	0.4	
5	☐	1.000		438598.73		P	0.7	
6	☐	1.000		402738.17		P	0.4	
7	☐	1.000						



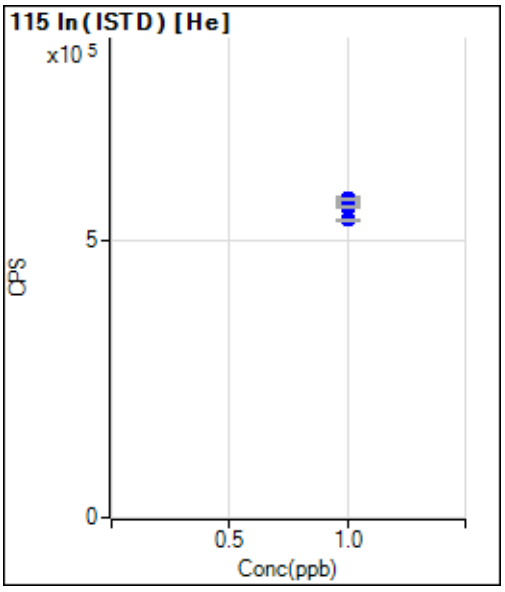
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1151041.15		P	0.1	
2	☐	1.000		1151467.82		P	0.7	
3	☐	1.000		1147285.45		P	0.3	
4	☐	1.000		1142723.45		P	0.5	
5	☐	1.000		1141102.61		P	0.3	
6	☐	1.000		1094962.62		P	0.9	
7	☐	1.000						



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		349089.11		P	1.2	
2	☐	1.000		352051.02		P	1.1	
3	☐	1.000		353769.89		P	0.4	
4	☐	1.000		353171.14		P	0.1	
5	☐	1.000		346760.40		P	0.7	
6	☐	1.000		334221.70		P	0.8	
7	☐	1.000						

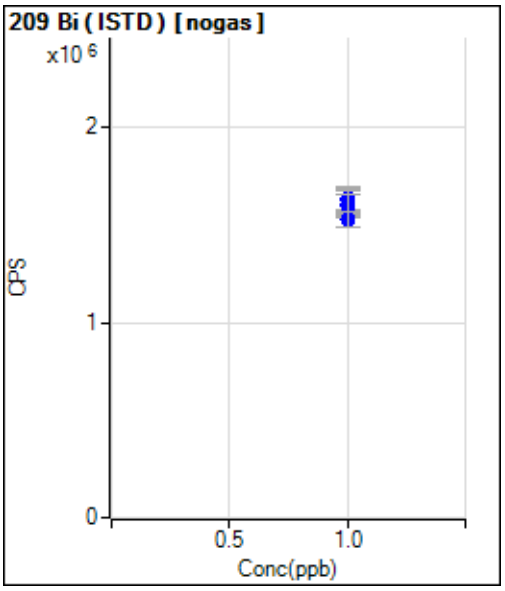


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1499153.42		P	1.5	
2	☐	1.000		1524051.51		P	1.0	
3	☐	1.000		1518116.03		P	1.9	
4	☐	1.000		1506184.34		P	0.5	
5	☐	1.000		1472559.96		P	1.6	
6	☐	1.000		1402555.58		P	0.9	
7	☐	1.000						



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		569466.25		P	0.8	
2	☐	1.000		573311.39		P	0.3	
3	☐	1.000		577639.78		P	1.0	
4	☐	1.000		575170.07		P	0.3	
5	☐	1.000		561554.98		P	0.6	
6	☐	1.000		538674.23		P	0.4	
7	☐	1.000						

Calibration for 281_ICV.d



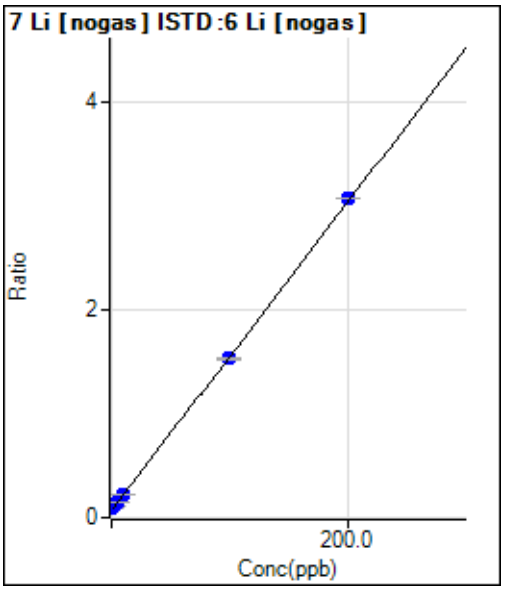
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1609235.18		P	8.0	
2	☐	1.000		1623683.78		P	7.8	
3	☐	1.000		1634619.87		P	7.8	
4	☐	1.000		1635918.26		P	7.0	
5	☐	1.000		1595490.50		P	7.0	
6	☐	1.000		1527082.53		P	5.4	
7	☐	1.000						

Calibration for 192_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\061924A.b\
Analysis File: 061924A.batch.bin
DA Date-Time: 6/19/2024 11:54:57 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	185CALB.d	CAL BLK	6/19/2024 8:04:59 PM
2	186CALS.d	2/10/200	6/19/2024 8:07:05 PM
3	187CALS.d	5/25/500	6/19/2024 8:09:11 PM
4	188CALS.d	10/50/1000	6/19/2024 8:11:17 PM
5	189CALS.d	100/500/10K	6/19/2024 8:13:23 PM
6	190CALS.d	200/1000/20K	6/19/2024 8:15:27 PM
7			

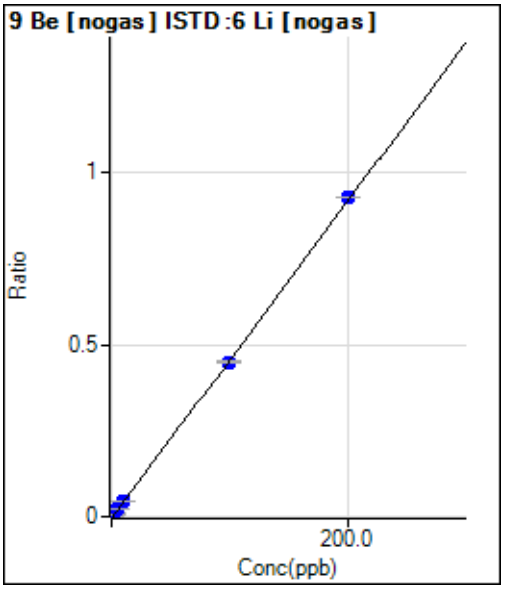
Calibration for 192_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	46983.81	0.0858	P	1.5	
2	☐	2.000	1.950	66127.52	0.1147	P	2.3	-2.5
3	☐	5.000	4.787	88490.45	0.1568	P	0.5	-4.3
4	☐	10.000	9.566	127176.22	0.2277	P	1.3	-4.3
5	☐	100.000	97.253	794239.44	1.5284	P	1.0	-2.7
6	☐	200.000	201.401	1474481.28	3.0733	P	0.3	0.7
7	☐	1.000						

y = 0.0148 * x + 0.0858
R = 0.9999
DL = 0.2603 ppb
BEC = 5.783 ppb

Weight: <None>
Min Conc: <None>

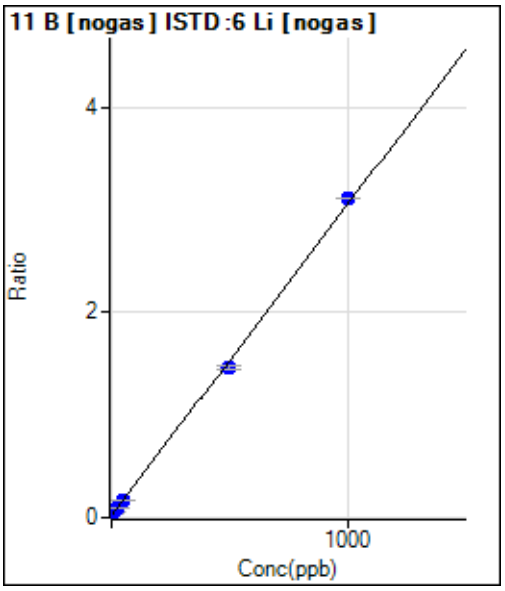


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	46.67	0.0001	P	26.6	
2	☐	2.000	1.838	4939.15	0.0086	P	4.1	-8.1
3	☐	5.000	4.436	11601.07	0.0206	P	2.8	-11.3
4	☐	10.000	9.347	24138.76	0.0432	P	2.1	-6.5
5	☐	100.000	97.367	233518.63	0.4494	P	1.1	-2.6
6	☐	200.000	201.365	445822.62	0.9293	P	0.4	0.7
7	☐	1.000						

y = 0.0046 * x + 8.5142E-005
R = 0.9999
DL = 0.01473 ppb
BEC = 0.01845 ppb

Weight: <None>
Min Conc: <None>

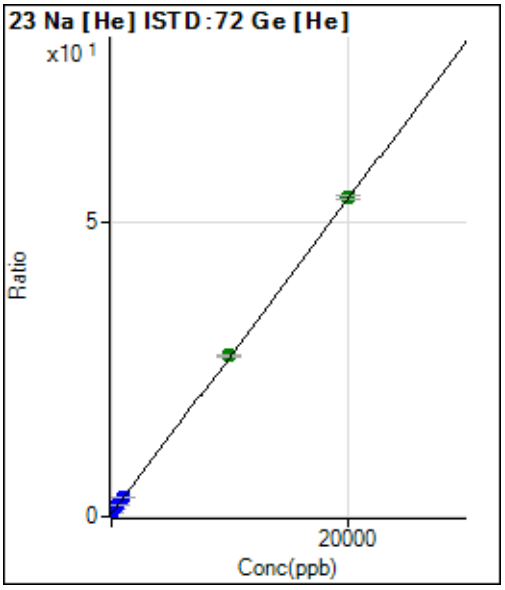
Calibration for 192_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	22240.97	0.0406	P	2.3	
2	☐	10.000	5.949	33808.37	0.0586	P	2.0	-40.5
3	☐	25.000	19.323	55970.21	0.0992	P	1.3	-22.7
4	☐	50.000	42.357	94378.66	0.1690	P	2.2	-15.3
5	☐	500.000	472.254	764725.09	1.4717	P	2.5	-5.5
6	☐	1000.000	1014.437	1494326.28	3.1147	P	0.4	1.4
7	☐	5.000						

y = 0.0030 * x + 0.0406
R = 0.9995
DL = 0.9438 ppb
BEC = 13.4 ppb

Weight: <None>
Min Conc: <None>

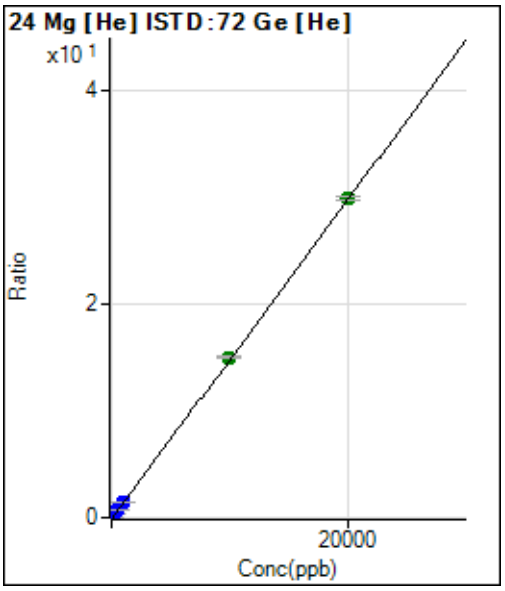


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	307175.84	0.7601	P	0.4	
2	☐	200.000	162.383	495320.66	1.1945	P	0.5	-18.8
3	☐	500.000	423.403	772630.54	1.8928	P	0.3	-15.3
4	☐	1000.000	882.096	1262233.78	3.1199	P	0.2	-11.8
5	☐	10000.00	9967.860	10660475.67	27.4261	A	1.5	-0.3
6	☐	20000.00	20024.25	20833426.36	54.3289	A	0.8	0.1
7	☐	100.000						

y = 0.0027 * x + 0.7601
R = 1.0000
DL = 3.331 ppb
BEC = 284.1 ppb

Weight: <None>
Min Conc: <None>

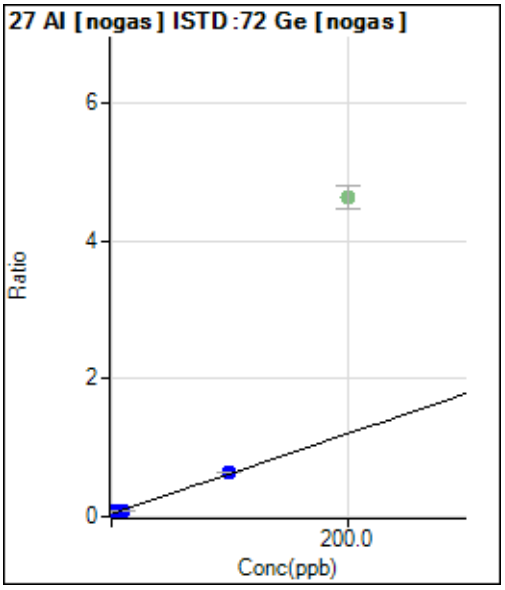
Calibration for 192_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3257.08	0.0081	P	2.8	
2	☐	200.000	187.288	119247.68	0.2876	P	0.9	-6.4
3	☐	500.000	465.449	286843.35	0.7027	P	0.3	-6.9
4	☐	1000.000	934.026	567210.75	1.4020	P	1.4	-6.6
5	☐	10000.00	10021.40	5816843.24	14.9645	A	1.0	0.2
6	☐	20000.00	19993.58	11445027.33	29.8475	A	1.4	0.0
7	☐	100.000						

y = 0.0015 * x + 0.0081
R = 1.0000
DL = 0.4526 ppb
BEC = 5.4 ppb

Weight: <None>
Min Conc: <None>

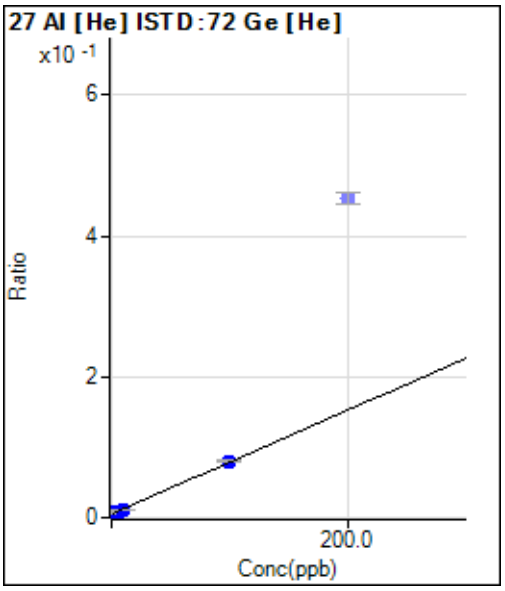


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	65238.37	0.0500	P	2.3	
2	☐	2.000	3.868	98154.81	0.0724	P	2.2	93.4
3	☐	5.000	-0.150	66061.56	0.0491	P	0.8	-103.0
4	☐	10.000	5.444	110034.38	0.0816	P	0.7	-45.6
5	☐	100.000	100.676	826794.23	0.6345	P	1.4	0.7
6	☑	200.000		5823530.33	4.6320	A	7.6	
7	☐	1.000						

y = 0.0058 * x + 0.0500
R = 0.9976
DL = 0.6001 ppb
BEC = 8.608 ppb

Weight: <None>
Min Conc: <None>

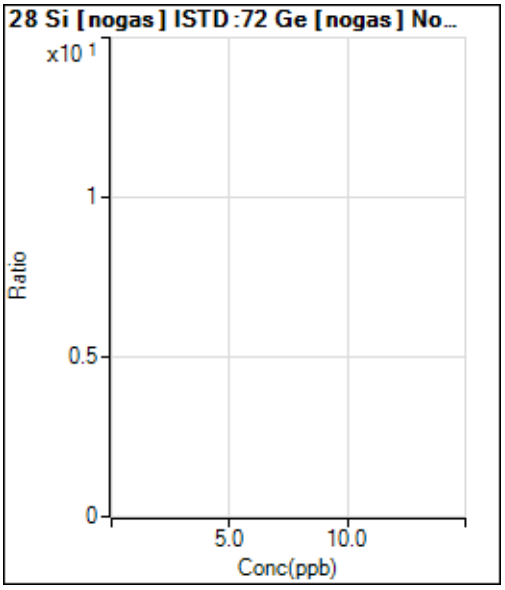
Calibration for 192_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2540.26	0.0063	P	4.8	
2	☐	2.000	4.263	3910.56	0.0094	P	4.2	113.1
3	☐	5.000	0.566	2736.97	0.0067	P	6.2	-88.7
4	☐	10.000	6.315	4427.41	0.0109	P	7.0	-36.8
5	☐	100.000	100.545	31258.66	0.0804	P	2.7	0.5
6	☑	200.000		173967.21	0.4536	P	3.4	
7	☐	1.000						

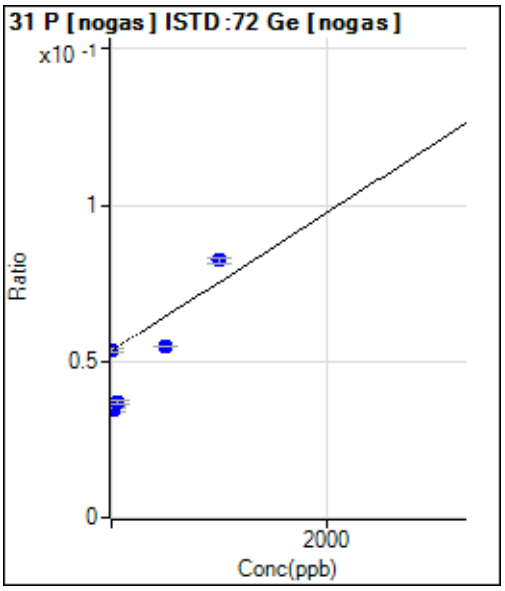
y = 7.3733E-004 * x + 0.0063
R = 0.9980
DL = 1.224 ppb
BEC = 8.526 ppb

Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000						
2	☐	100.000						
3	☐	250.000						
4	☐	500.000						
5	☐	5000.000						
6	☐	10000.00						
7	☐	50.000						

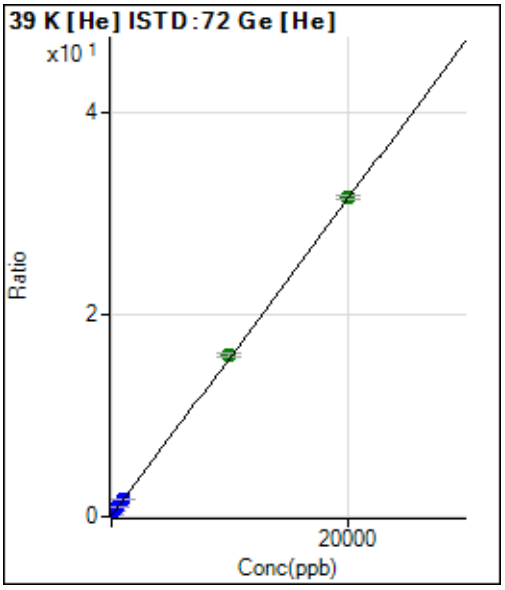
Calibration for 192_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	69929.91	0.0536	P	1.7	
2	☐	10.000	-857.041	46714.69	0.0345	P	3.2	-8670.
3	☐	25.000	-818.680	47527.34	0.0353	P	1.9	-3374.
4	☐	50.000	-751.148	49680.75	0.0368	P	2.6	-1602.
5	☐	500.000	56.387	71449.16	0.0548	P	0.5	-88.7
6	☐	1000.000	1291.626	103564.04	0.0824	P	2.0	29.2
7	☐	5.000						

y = 2.2285E-005 * x + 0.0536
R = 0.9070
DL = 122.6 ppb
BEC = 2404 ppb

Weight: <None>
Min Conc: <None>

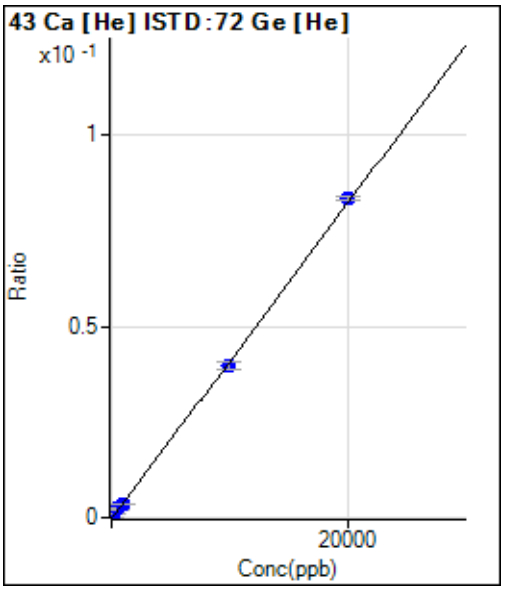


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	96272.63	0.2382	P	2.7	
2	☐	200.000	177.161	214155.07	0.5165	P	0.9	-11.4
3	☐	500.000	446.213	383306.43	0.9390	P	0.2	-10.8
4	☐	1000.000	897.065	666345.54	1.6471	P	1.4	-10.3
5	☐	10000.00	10005.64	6200470.74	15.9525	A	2.2	0.1
6	☐	20000.00	20003.89	12138166.49	31.6551	A	1.0	0.0
7	☐	100.000						

y = 0.0016 * x + 0.2382
R = 1.0000
DL = 12.39 ppb
BEC = 151.7 ppb

Weight: <None>
Min Conc: <None>

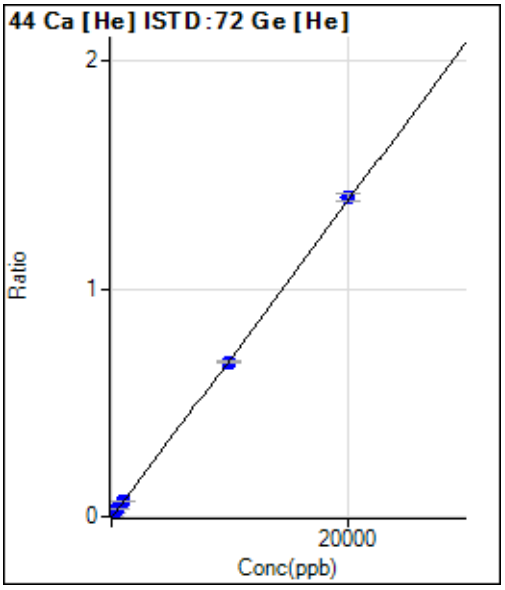
Calibration for 192_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	40.00	0.0001	P	65.9	
2	☐	200.000	180.294	350.01	0.0008	P	3.2	-9.9
3	☐	500.000	535.121	943.38	0.0023	P	6.8	7.0
4	☐	1000.000	845.229	1453.43	0.0036	P	5.0	-15.5
5	☐	10000.00	9615.820	15484.82	0.0398	P	5.5	-3.8
6	☐	20000.00	20199.14	32057.36	0.0836	P	1.1	1.0
7	☐	100.000						

y = 4.1336E-006 * x + 9.8900E-005
R = 0.9997
DL = 47.31 ppb
BEC = 23.93 ppb

Weight: <None>
Min Conc: <None>

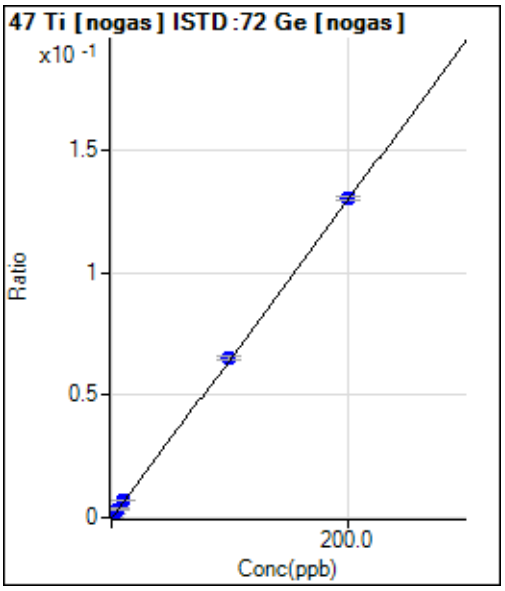


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	663.36	0.0016	P	2.0	
2	☐	200.000	185.719	6034.63	0.0146	P	4.9	-7.1
3	☐	500.000	473.077	14093.39	0.0345	P	2.8	-5.4
4	☐	1000.000	958.763	27625.45	0.0683	P	1.3	-4.1
5	☐	10000.00	9741.457	263846.31	0.6788	P	1.4	-2.6
6	☐	20000.00	20132.14	537207.47	1.4010	P	2.2	0.7
7	☐	100.000						

y = 6.9511E-005 * x + 0.0016
R = 0.9999
DL = 1.392 ppb
BEC = 23.62 ppb

Weight: <None>
Min Conc: <None>

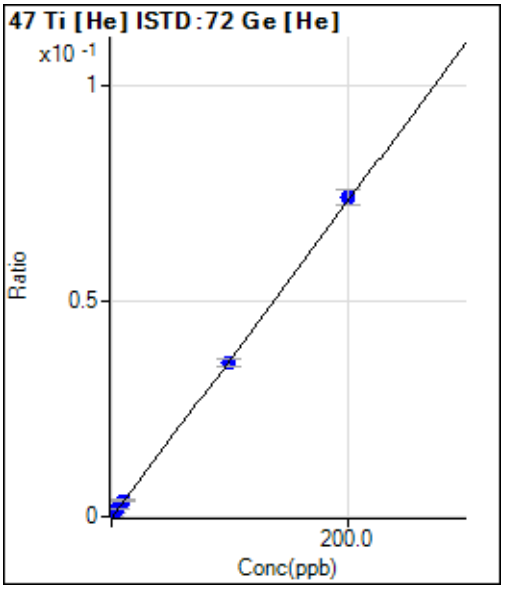
Calibration for 192_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	370.01	0.0003	P	32.3	
2	☐	2.000	2.116	2246.88	0.0017	P	2.6	5.8
3	☐	5.000	4.977	4730.82	0.0035	P	3.1	-0.5
4	☐	10.000	10.202	9319.73	0.0069	P	4.0	2.0
5	☐	100.000	99.643	84718.95	0.0650	P	2.2	-0.4
6	☐	200.000	200.168	163883.42	0.1303	P	0.7	0.1
7	☐	1.000						

y = 6.4967E-004 * x + 2.8317E-004
R = 1.0000
DL = 0.4227 ppb
BEC = 0.4359 ppb

Weight: <None>
Min Conc: <None>

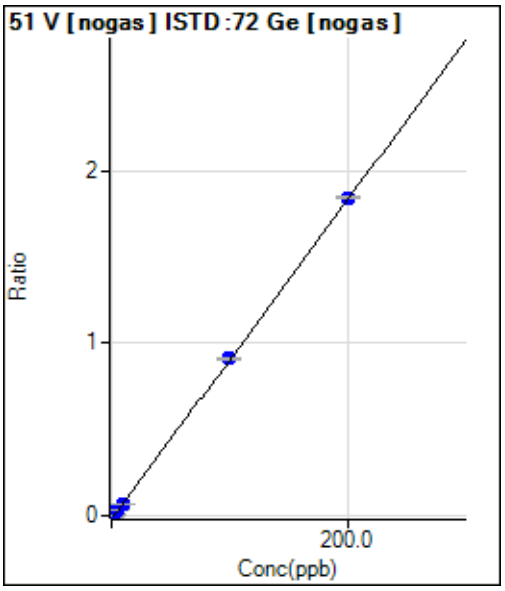


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16.67	0.0000	P	91.7	
2	☐	2.000	2.051	330.01	0.0008	P	10.7	2.6
3	☐	5.000	4.551	700.03	0.0017	P	4.5	-9.0
4	☐	10.000	9.950	1496.76	0.0037	P	9.0	-0.5
5	☐	100.000	97.040	13886.59	0.0357	P	3.8	-3.0
6	☐	200.000	201.493	28426.96	0.0741	P	4.5	0.7
7	☐	1.000						

y = 3.6777E-004 * x + 4.1307E-005
R = 0.9998
DL = 0.309 ppb
BEC = 0.1123 ppb

Weight: <None>
Min Conc: <None>

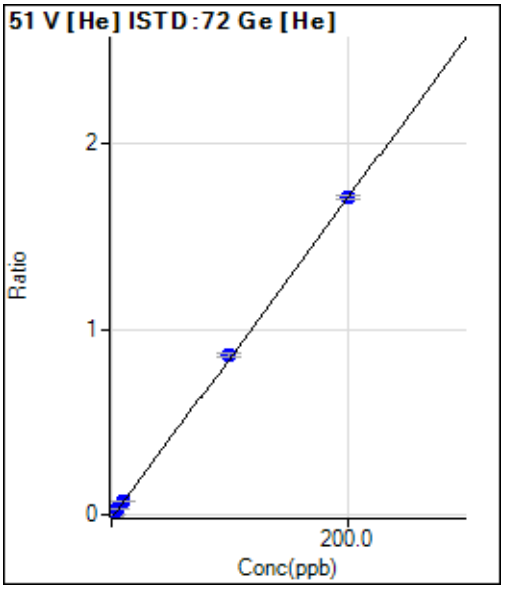
Calibration for 192_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-20552.54	-0.0157	P	-66.7	
2	☐	2.000	1.956	3356.13	0.0025	P	217.7	-2.2
3	☐	5.000	4.773	38598.53	0.0287	P	19.4	-4.5
4	☐	10.000	8.357	83718.29	0.0621	P	13.1	-16.4
5	☐	100.000	99.410	1185272.51	0.9096	P	1.1	-0.6
6	☐	200.000	200.383	2325909.37	1.8496	P	0.8	0.2
7	☐	1.000						

y = 0.0093 * x - 0.0157
R = 1.0000
DL = 3.385 ppb
BEC = -1.691 ppb

Weight: <None>
Min Conc: <None>

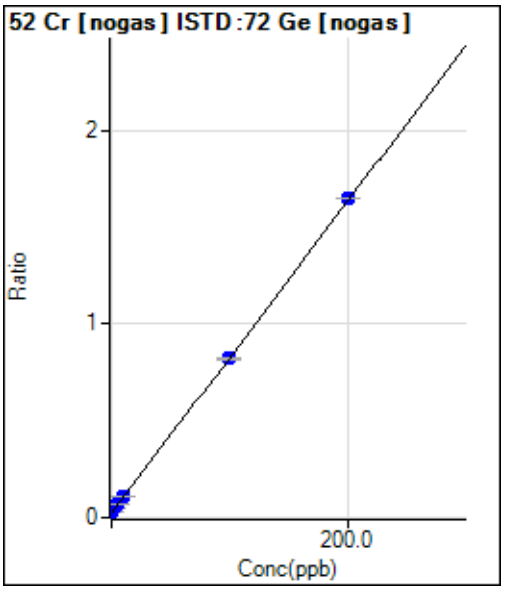


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-4135.60	-0.0102	P	-24.3	
2	☐	2.000	1.409	812.11	0.0020	P	141.0	-29.5
3	☐	5.000	4.701	12415.43	0.0304	P	10.7	-6.0
4	☐	10.000	9.542	29223.59	0.0723	P	9.9	-4.6
5	☐	100.000	100.534	333831.34	0.8589	P	2.7	0.5
6	☐	200.000	199.769	658306.90	1.7168	P	1.4	-0.1
7	☐	1.000						

y = 0.0086 * x - 0.0102
R = 1.0000
DL = 0.8611 ppb
BEC = -1.184 ppb

Weight: <None>
Min Conc: <None>

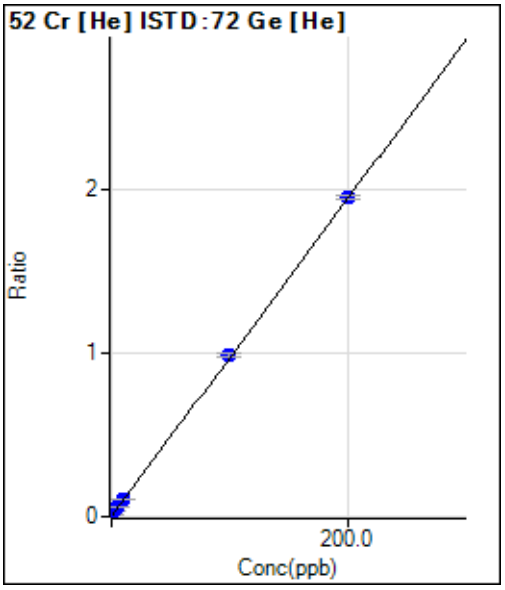
Calibration for 192_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	40848.92	0.0313	P	0.7	
2	☐	2.000	1.950	63690.65	0.0470	P	2.4	-2.5
3	☐	5.000	5.023	96506.79	0.0717	P	1.1	0.5
4	☐	10.000	10.047	151316.81	0.1122	P	1.9	0.5
5	☐	100.000	98.427	1073434.20	0.8238	P	1.2	-1.6
6	☐	200.000	200.784	2072339.87	1.6480	P	0.4	0.4
7	☐	1.000						

y = 0.0081 * x + 0.0313
R = 1.0000
DL = 0.08161 ppb
BEC = 3.887 ppb

Weight: <None>
Min Conc: <None>

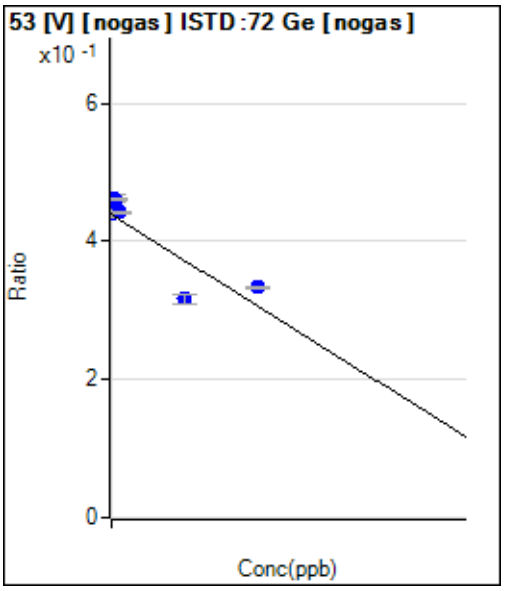


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5414.39	0.0134	P	6.7	
2	☐	2.000	1.998	13603.04	0.0328	P	1.1	-0.1
3	☐	5.000	4.992	25254.72	0.0619	P	0.8	-0.2
4	☐	10.000	9.885	44258.40	0.1094	P	2.2	-1.1
5	☐	100.000	100.385	384097.46	0.9882	P	2.4	0.4
6	☐	200.000	199.813	749135.40	1.9537	P	1.2	-0.1
7	☐	1.000						

y = 0.0097 * x + 0.0134
R = 1.0000
DL = 0.2771 ppb
BEC = 1.38 ppb

Weight: <None>
Min Conc: <None>

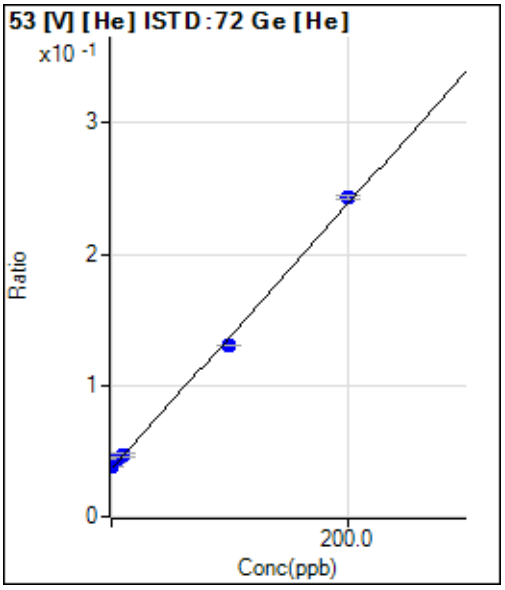
Calibration for 192_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	573000.80	0.4390	P	2.6	
2	☐	2.000	-35.683	626815.20	0.4626	P	2.8	-1884.
3	☐	5.000	-32.085	619099.42	0.4602	P	0.6	-741.7
4	☐	10.000	-5.092	596582.63	0.4424	P	0.5	-150.9
5	☐	100.000	184.674	412739.81	0.3167	P	4.3	84.7
6	☐	200.000	159.722	419061.60	0.3333	P	0.8	-20.1
7	☐	1.000						

y = -6.6197E-004 * x + 0.4390
R = -0.8789
DL = -50.89 ppb
BEC = -663.1 ppb

Weight: <None>
Min Conc: <None>

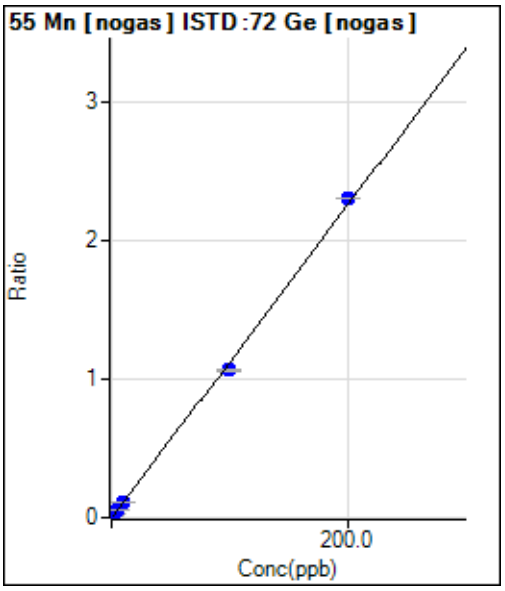


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	15237.95	0.0377	P	1.4	
2	☐	2.000	4.554	17537.05	0.0423	P	3.7	127.7
3	☐	5.000	6.734	18161.14	0.0445	P	3.8	34.7
4	☐	10.000	9.180	19002.20	0.0470	P	5.8	-8.2
5	☐	100.000	92.135	50761.97	0.1306	P	0.7	-7.9
6	☐	200.000	203.905	93269.97	0.2432	P	1.4	2.0
7	☐	1.000						

y = 0.0010 * x + 0.0377
R = 0.9987
DL = 1.566 ppb
BEC = 37.41 ppb

Weight: <None>
Min Conc: <None>

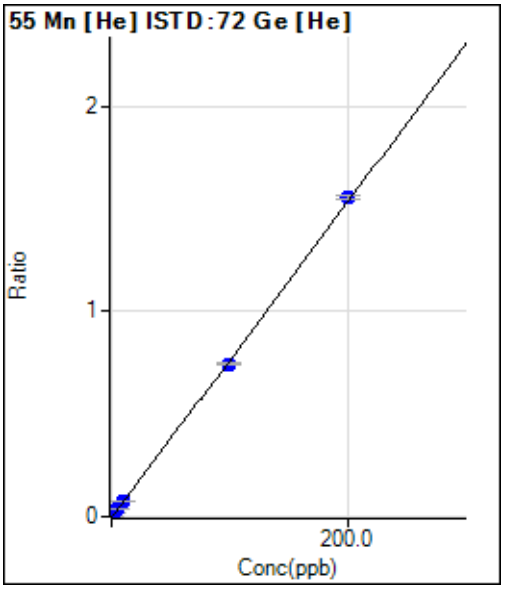
Calibration for 192_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	11688.06	0.0090	P	0.6	
2	☐	2.000	1.737	38729.84	0.0286	P	2.6	-13.1
3	☐	5.000	4.527	80839.18	0.0601	P	0.2	-9.5
4	☐	10.000	9.333	154264.47	0.1144	P	1.9	-6.7
5	☐	100.000	93.651	1390234.51	1.0669	P	1.1	-6.3
6	☐	200.000	203.222	2898271.31	2.3047	P	0.4	1.6
7	☐	1.000						

y = 0.0113 * x + 0.0090
R = 0.9993
DL = 0.01311 ppb
BEC = 0.7927 ppb

Weight: <None>
Min Conc: <None>

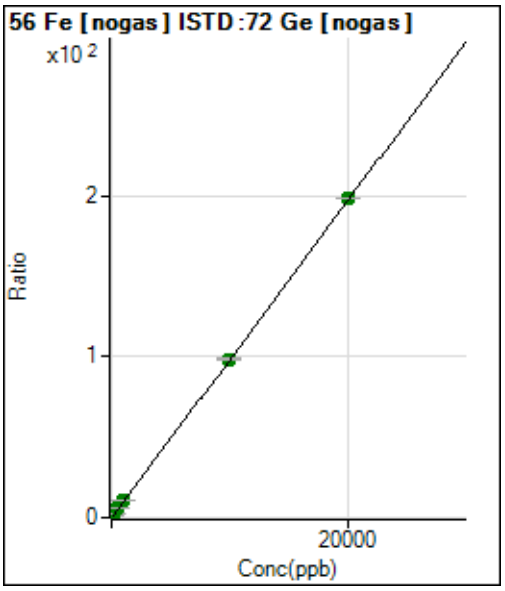


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	763.37	0.0019	P	16.7	
2	☐	2.000	1.976	7098.47	0.0171	P	3.3	-1.2
3	☐	5.000	4.688	15521.51	0.0380	P	3.5	-6.2
4	☐	10.000	9.683	30962.05	0.0765	P	1.1	-3.2
5	☐	100.000	96.294	289253.62	0.7441	P	1.2	-3.7
6	☐	200.000	201.877	597405.71	1.5580	P	1.5	0.9
7	☐	1.000						

y = 0.0077 * x + 0.0019
R = 0.9998
DL = 0.1229 ppb
BEC = 0.2451 ppb

Weight: <None>
Min Conc: <None>

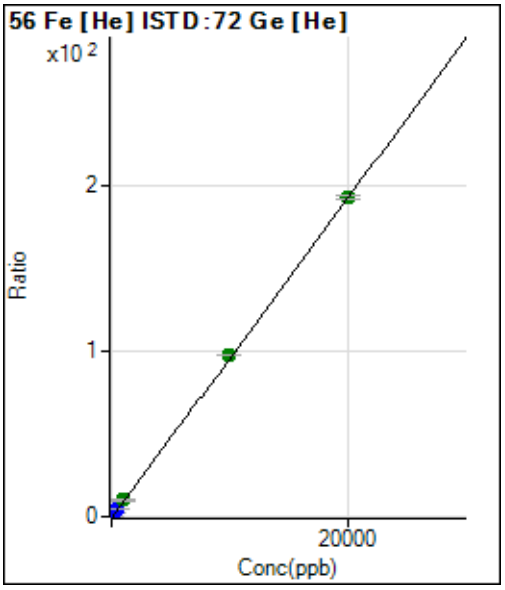
Calibration for 192_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	983360.45	0.7534	P	0.8	
2	☐	200.000	205.904	3775642.55	2.7863	A	1.4	3.0
3	☐	500.000	502.244	7683827.39	5.7120	A	1.1	0.4
4	☐	1000.000	1010.510	14471192.70	10.7301	A	0.8	1.1
5	☐	10000.00	9893.141	128252968.0	98.4275	A	0.8	-1.1
6	☐	20000.00	20052.78	249906476.2	198.732	A	0.5	0.3
7	☐	100.000						

y = 0.0099 * x + 0.7534
R = 1.0000
DL = 1.742 ppb
BEC = 76.31 ppb

Weight: <None>
Min Conc: <None>

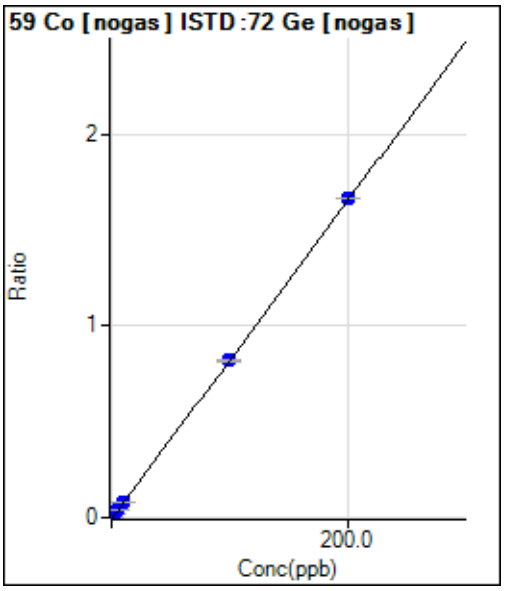


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16208.91	0.0401	P	4.9	
2	☐	200.000	177.701	729921.32	1.7604	P	1.1	-11.1
3	☐	500.000	445.578	1777080.13	4.3536	P	0.1	-10.9
4	☐	1000.000	1021.924	4018348.17	9.9329	A	1.4	2.2
5	☐	10000.00	10089.94	37983445.27	97.7166	A	1.0	0.9
6	☐	20000.00	19955.51	74088145.56	193.221	A	1.6	-0.2
7	☐	100.000						

y = 0.0097 * x + 0.0401
R = 1.0000
DL = 0.6077 ppb
BEC = 4.143 ppb

Weight: <None>
Min Conc: <None>

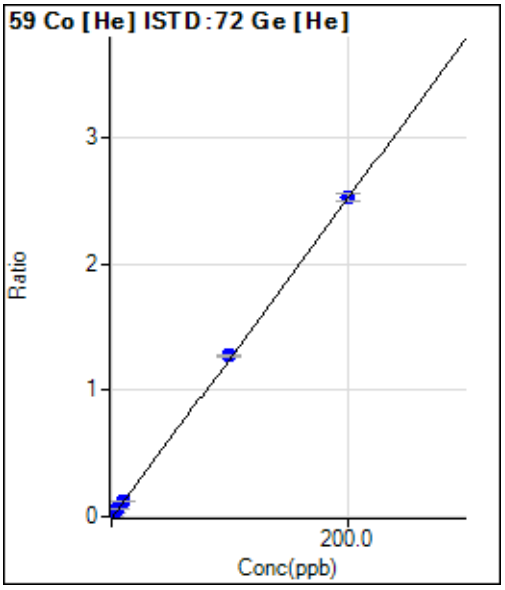
Calibration for 192_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	283.34	0.0002	P	12.7	
2	☐	2.000	1.997	22757.46	0.0168	P	2.8	-0.2
3	☐	5.000	4.978	55897.02	0.0416	P	0.7	-0.4
4	☐	10.000	9.944	111658.54	0.0828	P	1.4	-0.6
5	☐	100.000	99.021	1071649.59	0.8224	P	1.2	-1.0
6	☐	200.000	200.493	2093785.18	1.6650	P	0.4	0.2
7	☐	1.000						

y = 0.0083 * x + 2.1714E-004
R = 1.0000
DL = 0.00994 ppb
BEC = 0.02615 ppb

Weight: <None>
Min Conc: <None>

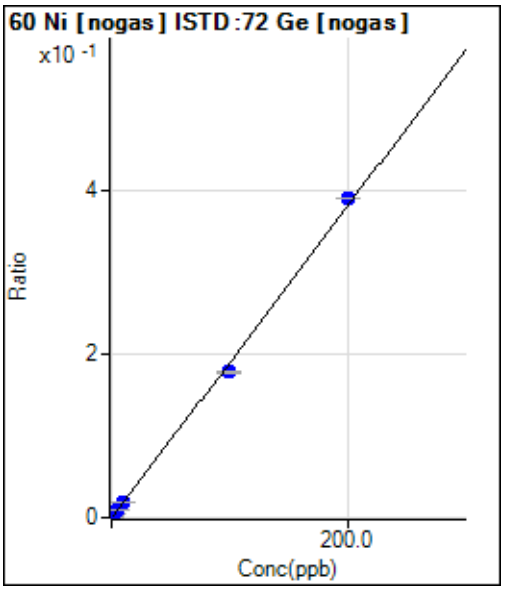


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	100.00	0.0002	P	26.4	
2	☐	2.000	2.021	10707.35	0.0258	P	2.6	1.0
3	☐	5.000	4.990	25879.19	0.0634	P	3.6	-0.2
4	☐	10.000	10.036	51484.75	0.1273	P	1.2	0.4
5	☐	100.000	100.513	494566.03	1.2723	P	1.1	0.5
6	☐	200.000	199.742	969382.53	2.5282	P	1.8	-0.1
7	☐	1.000						

y = 0.0127 * x + 2.4744E-004
R = 1.0000
DL = 0.0155 ppb
BEC = 0.01955 ppb

Weight: <None>
Min Conc: <None>

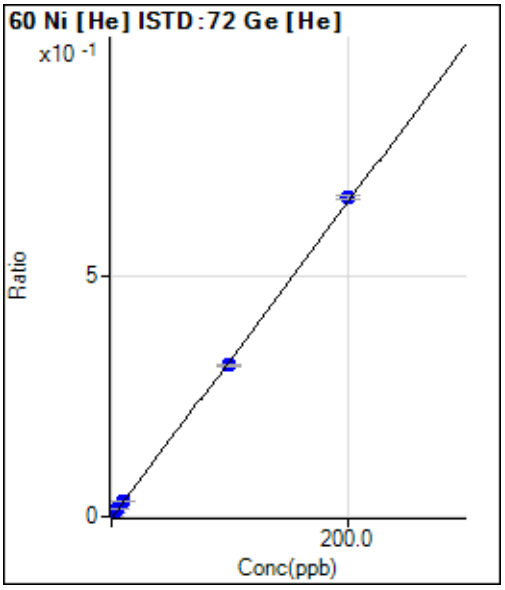
Calibration for 192_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1536.78	0.0012	P	14.0	
2	☐	2.000	2.079	6965.05	0.0051	P	4.1	4.0
3	☐	5.000	4.699	13633.04	0.0101	P	1.0	-6.0
4	☐	10.000	9.488	25979.35	0.0193	P	2.0	-5.1
5	☐	100.000	92.481	231249.55	0.1775	P	0.5	-7.5
6	☐	200.000	203.792	490003.42	0.3897	P	0.6	1.9
7	☐	1.000						

y = 0.0019 * x + 0.0012
R = 0.9990
DL = 0.2596 ppb
BEC = 0.6173 ppb

Weight: <None>
Min Conc: <None>

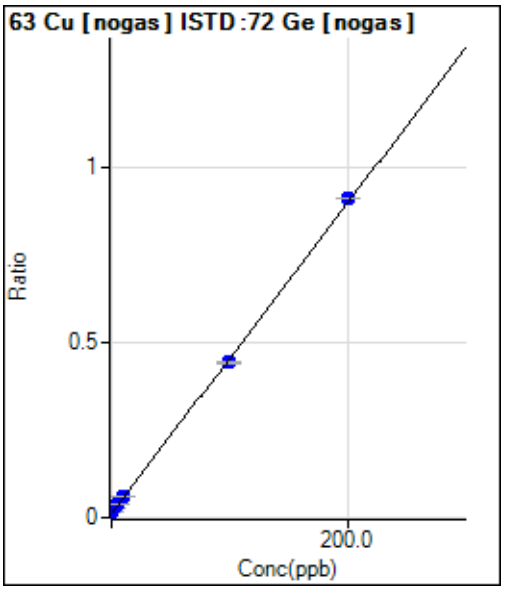


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	93.33	0.0002	P	12.4	
2	☐	2.000	2.012	2826.99	0.0068	P	12.5	0.6
3	☐	5.000	4.971	6734.98	0.0165	P	2.5	-0.6
4	☐	10.000	9.842	13122.65	0.0324	P	3.8	-1.6
5	☐	100.000	95.622	121729.28	0.3132	P	1.5	-4.4
6	☐	200.000	202.198	253826.12	0.6619	P	1.6	1.1
7	☐	1.000						

y = 0.0033 * x + 2.3096E-004
R = 0.9997
DL = 0.02619 ppb
BEC = 0.07058 ppb

Weight: <None>
Min Conc: <None>

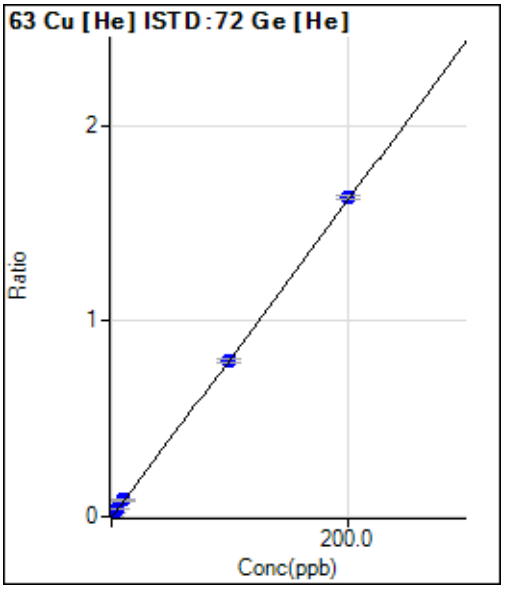
Calibration for 192_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	22226.68	0.0170	P	2.4	
2	☐	2.000	1.998	35101.44	0.0259	P	2.9	-0.1
3	☐	5.000	5.185	53896.91	0.0401	P	1.9	3.7
4	☐	10.000	10.194	84044.21	0.0623	P	2.5	1.9
5	☐	100.000	96.334	579888.89	0.4450	P	1.3	-3.7
6	☐	200.000	201.818	1148978.03	0.9137	P	0.6	0.9
7	☐	1.000						

y = 0.0044 * x + 0.0170
R = 0.9998
DL = 0.2743 ppb
BEC = 3.833 ppb

Weight: <None>
Min Conc: <None>

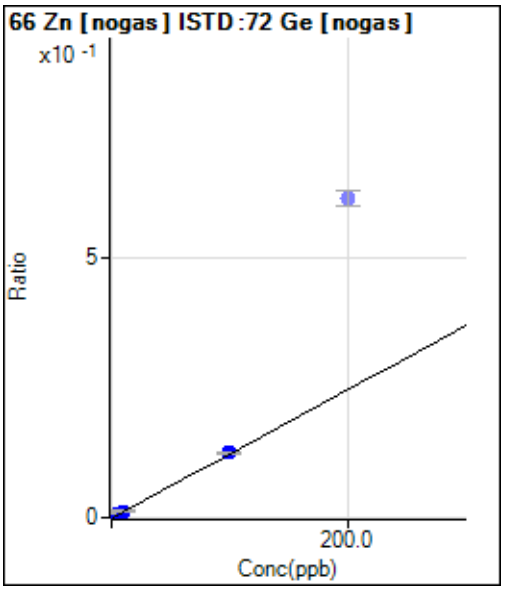


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	716.69	0.0018	P	11.2	
2	☐	2.000	1.881	7065.09	0.0170	P	4.4	-6.0
3	☐	5.000	4.729	16392.50	0.0402	P	1.6	-5.4
4	☐	10.000	10.090	33848.42	0.0837	P	1.1	0.9
5	☐	100.000	98.024	309930.85	0.7973	P	1.6	-2.0
6	☐	200.000	200.992	626171.40	1.6330	P	1.5	0.5
7	☐	1.000						

y = 0.0081 * x + 0.0018
R = 0.9999
DL = 0.07324 ppb
BEC = 0.2185 ppb

Weight: <None>
Min Conc: <None>

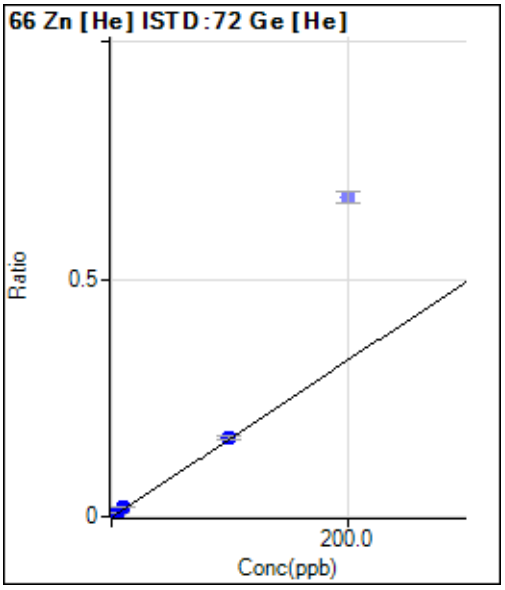
Calibration for 192_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1106.73	0.0008	P	7.2	
2	☐	2.000	2.044	4570.78	0.0034	P	4.4	2.2
3	☐	5.000	4.868	9229.68	0.0069	P	6.3	-2.6
4	☐	10.000	9.630	17186.85	0.0127	P	4.8	-3.7
5	☐	100.000	100.043	162169.96	0.1245	P	1.2	0.0
6	☑	200.000		773301.86	0.6150	P	4.5	
7	☐	1.000						

y = 0.0012 * x + 8.4776E-004
R = 1.0000
DL = 0.1487 ppb
BEC = 0.6861 ppb

Weight: <None>
Min Conc: <None>

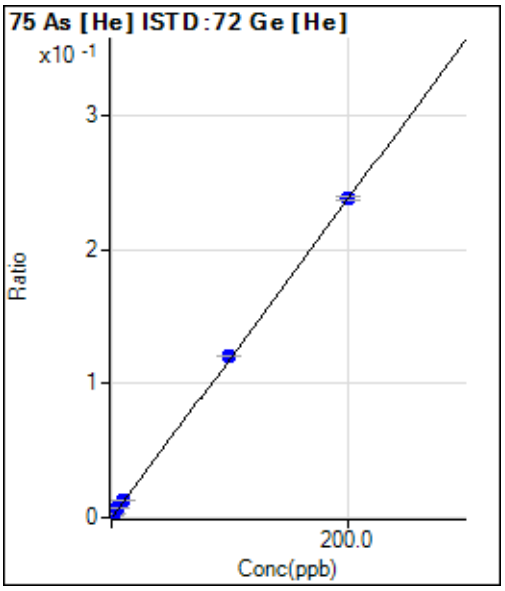


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	423.35	0.0010	P	16.0	
2	☐	2.000	1.967	1780.14	0.0043	P	4.5	-1.7
3	☐	5.000	4.993	3790.54	0.0093	P	6.0	-0.1
4	☐	10.000	10.560	7475.31	0.0185	P	1.8	5.6
5	☐	100.000	99.945	64515.82	0.1660	P	3.2	-0.1
6	☑	200.000		257816.63	0.6723	P	4.1	
7	☐	1.000						

y = 0.0017 * x + 0.0010
R = 1.0000
DL = 0.3055 ppb
BEC = 0.6347 ppb

Weight: <None>
Min Conc: <None>

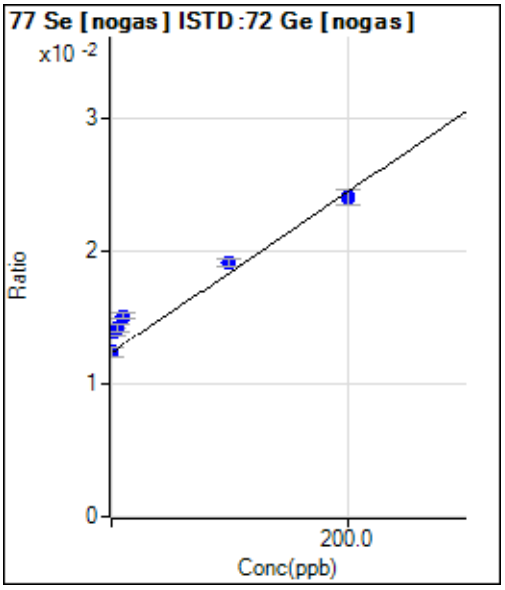
Calibration for 192_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	338.90	0.0008	P	8.2	
2	☐	2.000	1.948	1307.84	0.0032	P	5.0	-2.6
3	☐	5.000	4.862	2702.48	0.0066	P	4.0	-2.8
4	☐	10.000	9.838	5072.00	0.0125	P	0.2	-1.6
5	☐	100.000	100.932	46981.58	0.1209	P	0.3	0.9
6	☐	200.000	199.546	91309.90	0.2381	P	0.7	-0.2
7	☐	1.000						

y = 0.0012 * x + 8.3855E-004
R = 1.0000
DL = 0.1732 ppb
BEC = 0.7052 ppb

Weight: <None>
Min Conc: <None>

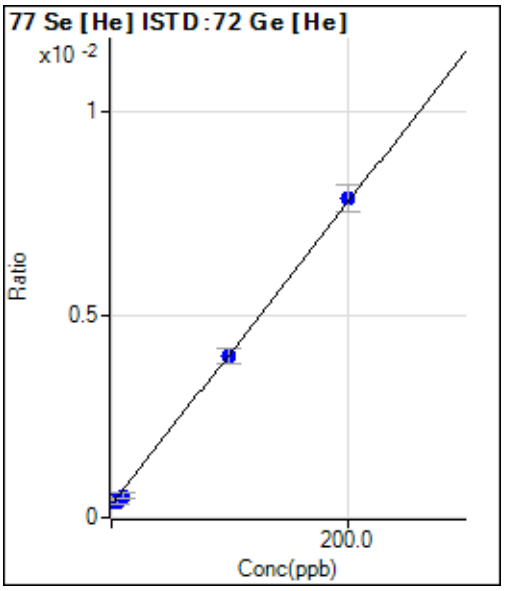


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	16235.73	0.0124	P	5.6	
2	☐	2.000	25.020	18908.95	0.0140	P	4.1	1151.0
3	☐	5.000	29.845	19165.93	0.0142	P	4.3	496.9
4	☐	10.000	44.768	20434.35	0.0152	P	2.9	347.7
5	☐	100.000	110.727	24954.64	0.0192	P	2.7	10.7
6	☐	200.000	192.047	30284.64	0.0241	P	4.9	-4.0
7	☐	1.000						

y = 6.0624E-005 * x + 0.0124
R = 0.9861
DL = 34.45 ppb
BEC = 205.2 ppb

Weight: <None>
Min Conc: <None>

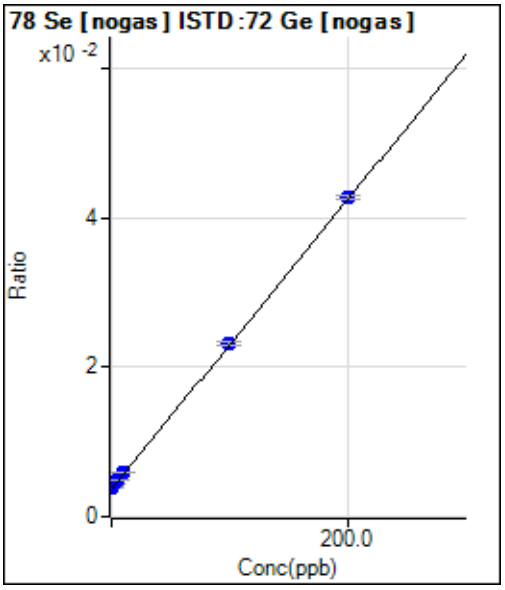
Calibration for 192_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	146.67	0.0004	P	14.0	
2	☐	2.000	2.343	186.67	0.0005	P	24.8	17.2
3	☐	5.000	0.128	150.00	0.0004	P	23.5	-97.4
4	☐	10.000	4.855	220.01	0.0005	P	20.8	-51.4
5	☐	100.000	97.432	1553.44	0.0040	P	10.3	-2.6
6	☐	200.000	201.659	3020.36	0.0079	P	8.0	0.8
7	☐	1.000						

y = 3.7278E-005 * x + 3.6288E-004
R = 0.9995
DL = 4.085 ppb
BEC = 9.734 ppb

Weight: <None>
Min Conc: <None>

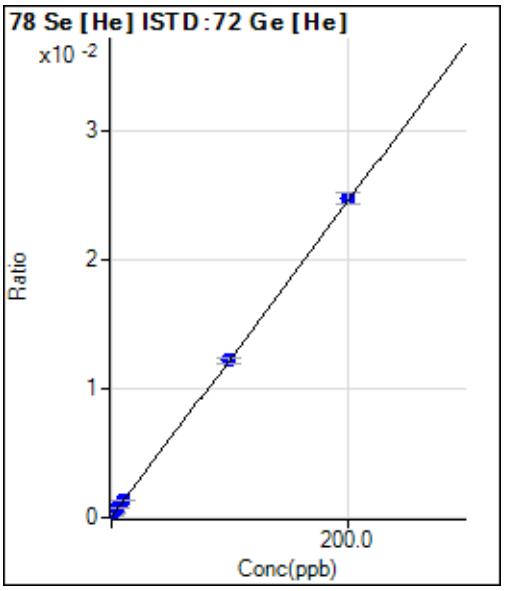


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5110.98	0.0039	P	6.1	
2	☐	2.000	2.539	5971.31	0.0044	P	2.6	27.0
3	☐	5.000	5.265	6638.24	0.0049	P	3.4	5.3
4	☐	10.000	10.367	7988.94	0.0059	P	0.5	3.7
5	☐	100.000	99.063	30110.94	0.0231	P	2.6	-0.9
6	☐	200.000	200.438	53760.66	0.0428	P	0.7	0.2
7	☐	1.000						

y = 1.9375E-004 * x + 0.0039
R = 1.0000
DL = 3.706 ppb
BEC = 20.21 ppb

Weight: <None>
Min Conc: <None>

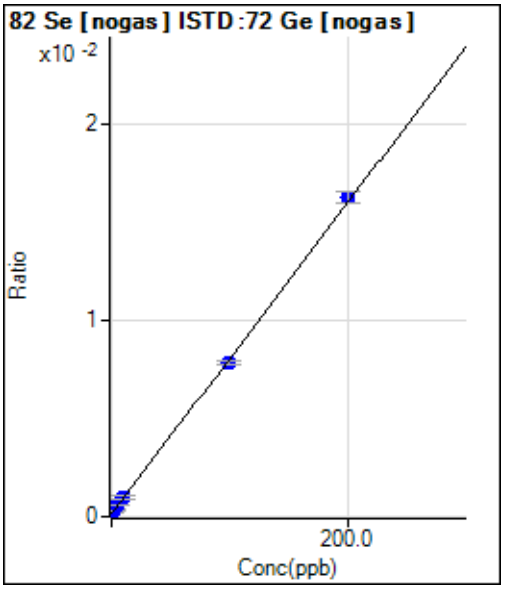
Calibration for 192_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	66.00	0.0002	P	12.4	
2	☐	2.000	1.910	164.67	0.0004	P	19.1	-4.5
3	☐	5.000	4.787	306.00	0.0007	P	2.5	-4.3
4	☐	10.000	9.911	557.34	0.0014	P	4.3	-0.9
5	☐	100.000	98.156	4736.10	0.0122	P	4.1	-1.8
6	☐	200.000	200.933	9499.05	0.0248	P	3.1	0.5
7	☐	1.000						

y = 1.2249E-004 * x + 1.6336E-004
R = 0.9999
DL = 0.4951 ppb
BEC = 1.334 ppb

Weight: <None>
Min Conc: <None>

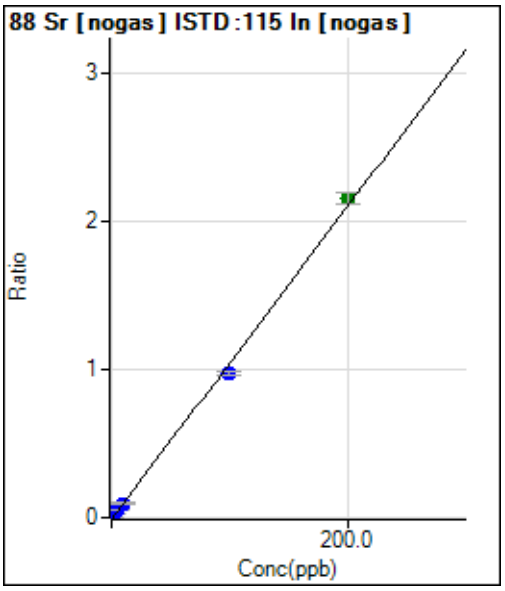


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	296.68	0.0002	P	13.1	
2	☐	2.000	1.227	440.02	0.0003	P	17.2	-38.6
3	☐	5.000	4.324	766.70	0.0006	P	6.5	-13.5
4	☐	10.000	9.357	1306.75	0.0010	P	19.0	-6.4
5	☐	100.000	95.578	10167.01	0.0078	P	2.1	-4.4
6	☐	200.000	202.268	20447.78	0.0163	P	4.0	1.1
7	☐	1.000						

y = 7.9261E-005 * x + 2.2719E-004
R = 0.9997
DL = 1.125 ppb
BEC = 2.866 ppb

Weight: <None>
Min Conc: <None>

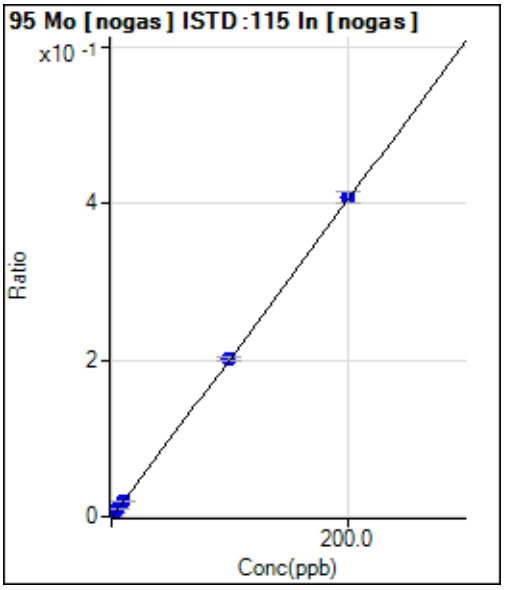
Calibration for 192_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1170.07	0.0007	P	11.0	
2	☐	2.000	1.833	34373.67	0.0201	P	2.2	-8.3
3	☐	5.000	4.526	82724.68	0.0485	P	2.9	-9.5
4	☐	10.000	9.109	163760.88	0.0969	P	3.3	-8.9
5	☐	100.000	92.245	1606700.86	0.9755	P	2.6	-7.8
6	☐	200.000	203.936	3461114.85	2.1557	A	3.2	2.0
7	☐	1.000						

y = 0.0106 * x + 6.9341E-004
R = 0.9990
DL = 0.02166 ppb
BEC = 0.06562 ppb

Weight: <None>
Min Conc: <None>

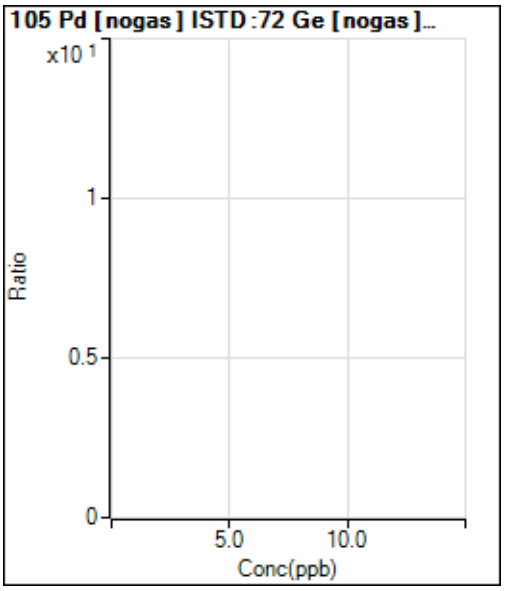


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	246.67	0.0001	P	39.2	
2	☐	2.000	1.928	6971.77	0.0041	P	7.0	-3.6
3	☐	5.000	4.662	16429.40	0.0096	P	4.0	-6.8
4	☐	10.000	9.768	33839.22	0.0200	P	2.0	-2.3
5	☐	100.000	98.794	331474.54	0.2013	P	3.0	-1.2
6	☐	200.000	200.624	655942.17	0.4086	P	3.3	0.3
7	☐	1.000						

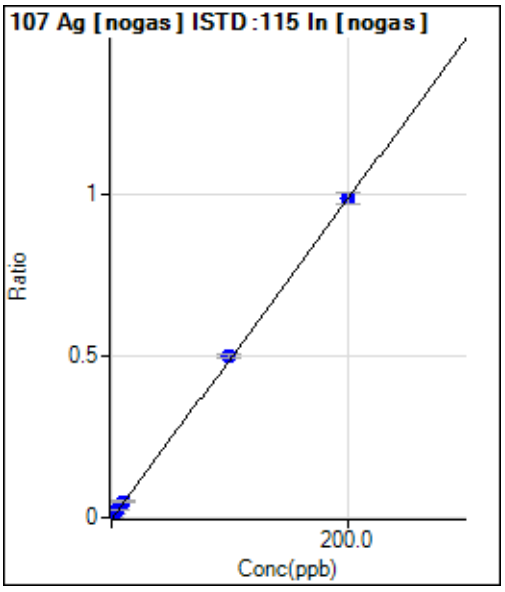
y = 0.0020 * x + 1.4612E-004
R = 1.0000
DL = 0.08448 ppb
BEC = 0.07178 ppb

Weight: <None>
Min Conc: <None>

Calibration for 192_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000						
2	☐	2.000						
3	☐	5.000						
4	☐	10.000						
5	☐	100.000						
6	☐	200.000						
7	☐	1.000						

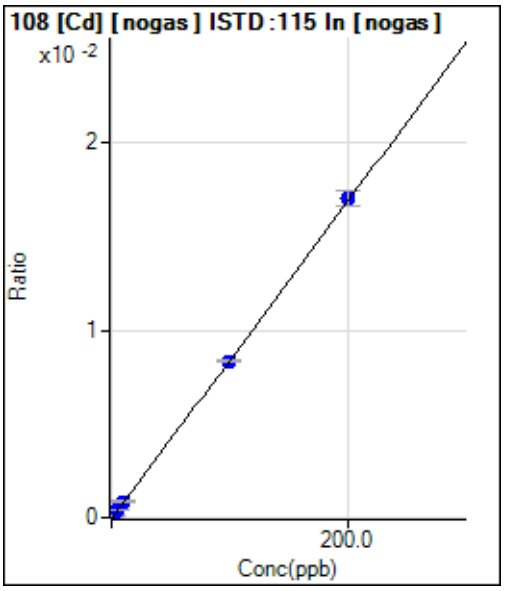


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	126.67	0.0001	P	44.8	
2	☐	2.000	2.032	17363.92	0.0101	P	6.8	1.6
3	☐	5.000	5.003	42388.73	0.0249	P	3.9	0.1
4	☐	10.000	10.176	85309.12	0.0505	P	2.6	1.8
5	☐	100.000	101.062	824994.21	0.5009	P	2.8	1.1
6	☐	200.000	199.460	1587096.90	0.9885	P	3.1	-0.3
7	☐	1.000						

y = 0.0050 * x + 7.5063E-005
R = 1.0000
DL = 0.02036 ppb
BEC = 0.01515 ppb

Weight: <None>
Min Conc: <None>

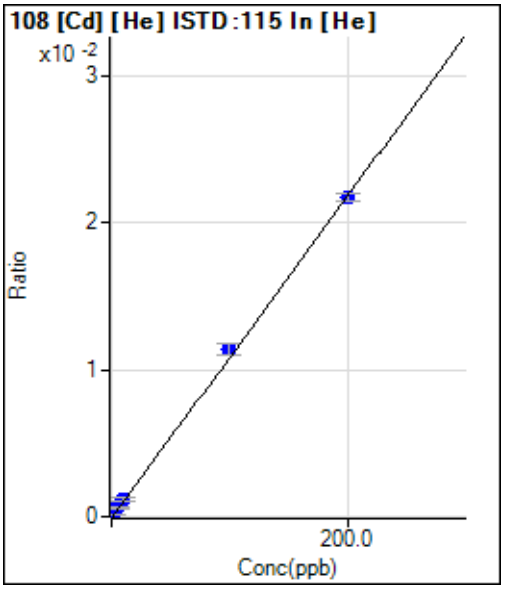
Calibration for 192_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13.33	0.0000	P	43.2	
2	☐	2.000	1.511	233.34	0.0001	P	24.8	-24.4
3	☐	5.000	4.462	660.03	0.0004	P	6.1	-10.8
4	☐	10.000	10.132	1466.77	0.0009	P	5.9	1.3
5	☐	100.000	98.237	13760.08	0.0083	P	1.6	-1.8
6	☐	200.000	200.893	27396.07	0.0171	P	5.3	0.4
7	☐	1.000						

y = 8.4913E-005 * x + 7.8994E-006
R = 0.9999
DL = 0.1204 ppb
BEC = 0.09303 ppb

Weight: <None>
Min Conc: <None>

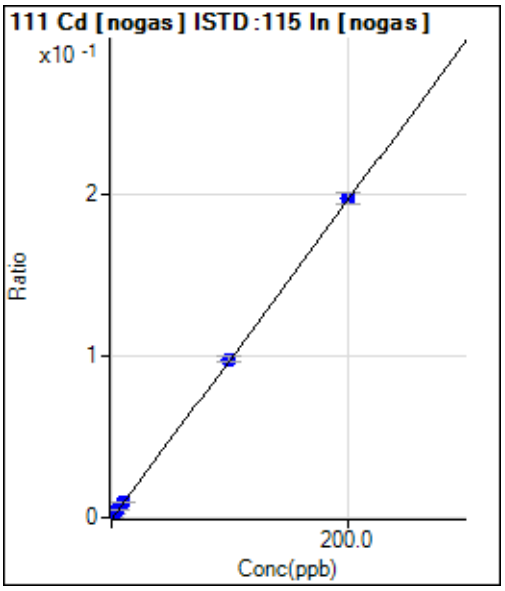


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	0.00	0.0000	P		
2	☐	2.000	1.420	100.00	0.0002	P	44.4	-29.0
3	☐	5.000	5.440	383.35	0.0006	P	21.3	8.8
4	☐	10.000	10.708	740.03	0.0012	P	12.9	7.1
5	☐	100.000	103.806	6871.74	0.0114	P	6.2	3.8
6	☐	200.000	198.057	13046.09	0.0217	P	2.7	-1.0
7	☐	1.000						

y = 1.0969E-004 * x + 0.0000E+000
R = 0.9997
DL = 0 ppb
BEC = 0 ppb

Weight: <None>
Min Conc: <None>

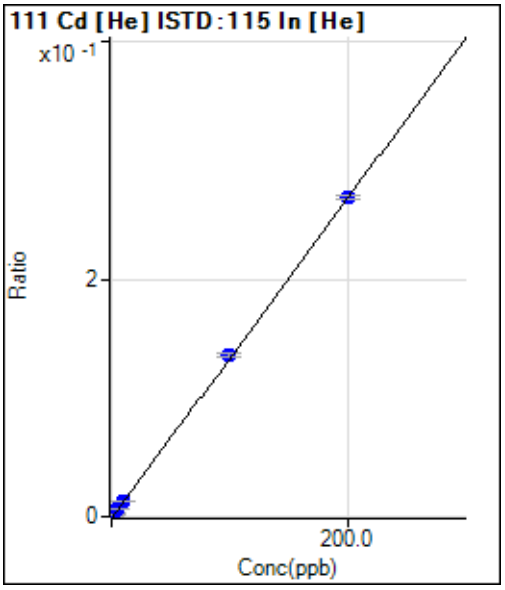
Calibration for 192_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	5.69	0.0000	P	369.4	
2	☐	2.000	2.132	3606.88	0.0021	P	6.1	6.6
3	☐	5.000	4.835	8134.61	0.0048	P	7.5	-3.3
4	☐	10.000	10.053	16758.04	0.0099	P	2.8	0.5
5	☐	100.000	99.437	161546.48	0.0981	P	3.5	-0.6
6	☐	200.000	200.282	317197.88	0.1976	P	3.5	0.1
7	☐	1.000						

y = 9.8645E-004 * x + 3.3929E-006
R = 1.0000
DL = 0.03812 ppb
BEC = 0.00344 ppb

Weight: <None>
Min Conc: <None>

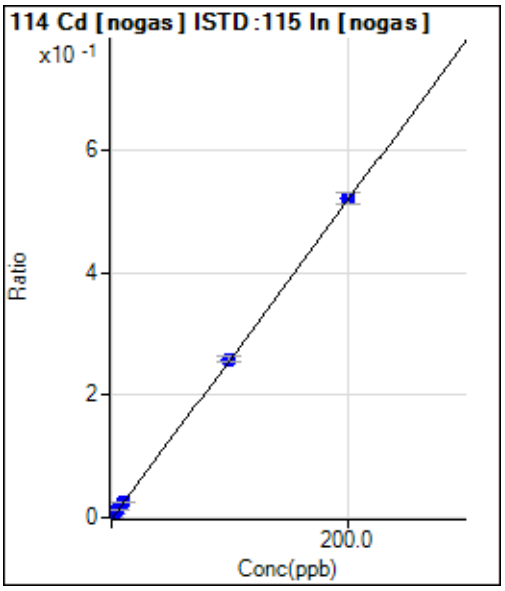


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3.33	0.0000	P	173.2	
2	☐	2.000	1.769	1539.50	0.0024	P	12.0	-11.5
3	☐	5.000	4.689	4069.45	0.0063	P	6.2	-6.2
4	☐	10.000	9.933	8442.36	0.0134	P	4.0	-0.7
5	☐	100.000	100.991	82175.06	0.1362	P	1.4	1.0
6	☐	200.000	199.518	161572.41	0.2690	P	0.9	-0.2
7	☐	1.000						

y = 0.0013 * x + 5.1941E-006
R = 1.0000
DL = 0.02002 ppb
BEC = 0.003852 ppb

Weight: <None>
Min Conc: <None>

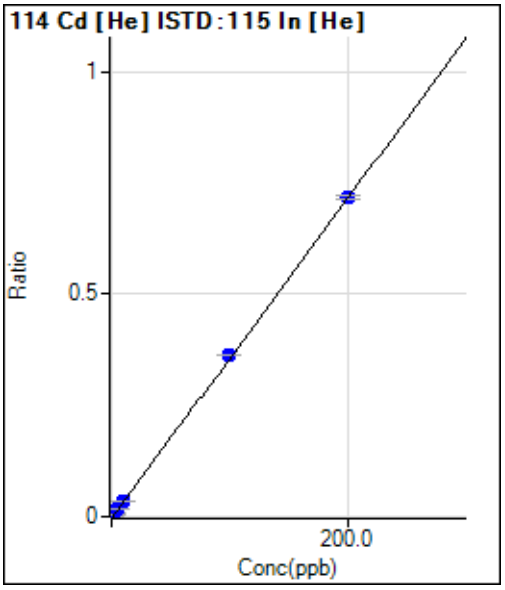
Calibration for 192_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	100.00	0.0001	P	30.2	
2	☐	2.000	1.956	8849.59	0.0052	P	2.8	-2.2
3	☐	5.000	4.924	22000.37	0.0129	P	4.4	-1.5
4	☐	10.000	9.893	43692.75	0.0259	P	3.7	-1.1
5	☐	100.000	99.481	427434.50	0.2596	P	4.0	-0.5
6	☐	200.000	200.267	838902.77	0.5225	P	3.0	0.1
7	☐	1.000						

y = 0.0026 * x + 5.9292E-005
R = 1.0000
DL = 0.0206 ppb
BEC = 0.02273 ppb

Weight: <None>
Min Conc: <None>

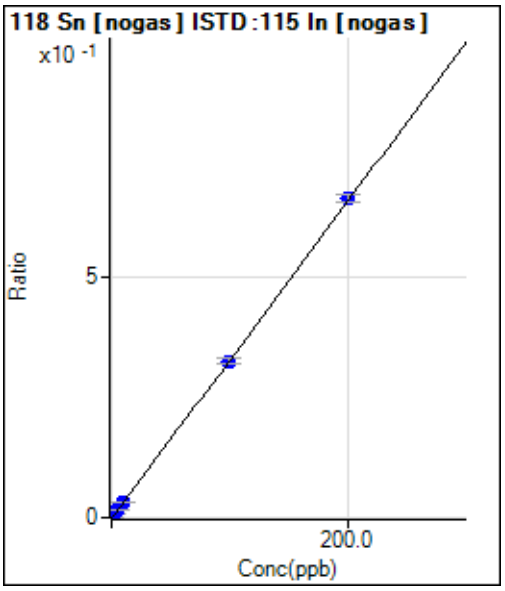


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	33.33	0.0001	P	45.9	
2	☐	2.000	1.848	4317.39	0.0067	P	7.4	-7.6
3	☐	5.000	4.774	11094.45	0.0172	P	1.4	-4.5
4	☐	10.000	9.941	22587.82	0.0358	P	3.5	-0.6
5	☐	100.000	100.937	219345.59	0.3635	P	0.9	0.9
6	☐	200.000	199.542	431584.84	0.7186	P	0.9	-0.2
7	☐	1.000						

y = 0.0036 * x + 5.1873E-005
R = 1.0000
DL = 0.01982 ppb
BEC = 0.01441 ppb

Weight: <None>
Min Conc: <None>

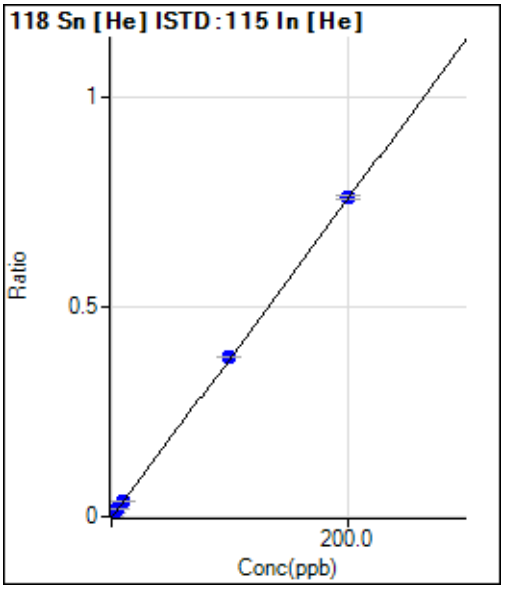
Calibration for 192_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1856.82	0.0011	P	14.2	
2	☐	2.000	1.828	12242.07	0.0071	P	4.4	-8.6
3	☐	5.000	4.656	28124.33	0.0165	P	4.6	-6.9
4	☐	10.000	9.767	56426.65	0.0334	P	2.5	-2.3
5	☐	100.000	98.367	537609.81	0.3264	P	3.3	-1.6
6	☐	200.000	200.838	1068378.68	0.6653	P	1.9	0.4
7	☐	1.000						

y = 0.0033 * x + 0.0011
R = 1.0000
DL = 0.1422 ppb
BEC = 0.3327 ppb

Weight: <None>
Min Conc: <None>

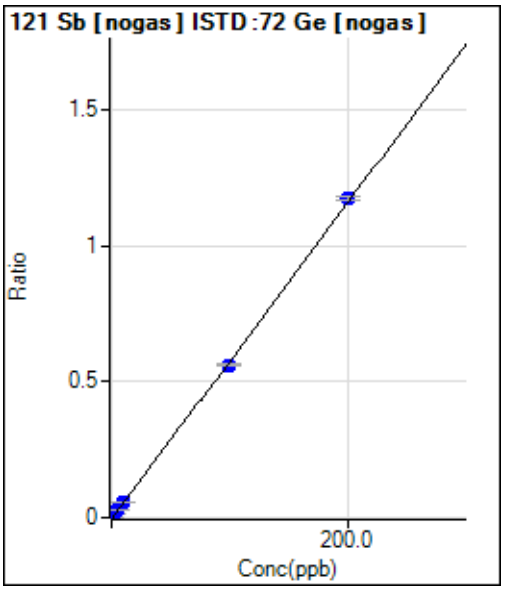


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	783.38	0.0012	P	12.4	
2	☐	2.000	1.780	5134.33	0.0080	P	0.8	-11.0
3	☐	5.000	4.459	11664.89	0.0181	P	2.4	-10.8
4	☐	10.000	9.704	23953.42	0.0380	P	2.7	-3.0
5	☐	100.000	99.826	229154.01	0.3798	P	0.4	-0.2
6	☐	200.000	200.118	456488.50	0.7601	P	1.3	0.1
7	☐	1.000						

y = 0.0038 * x + 0.0012
R = 1.0000
DL = 0.12 ppb
BEC = 0.3216 ppb

Weight: <None>
Min Conc: <None>

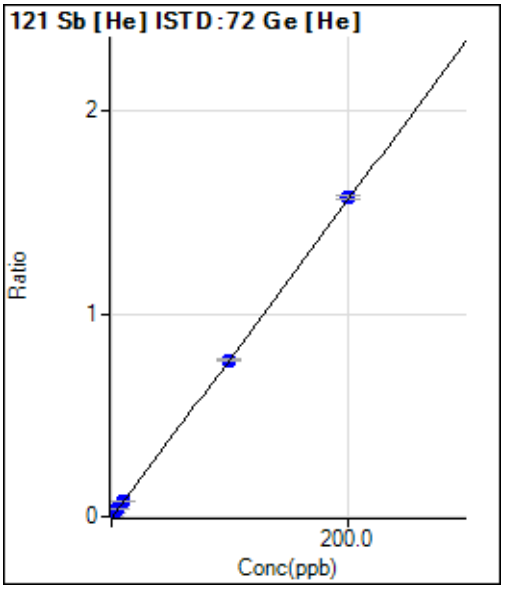
Calibration for 192_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	803.37	0.0006	P	18.8	
2	☐	2.000	1.849	15431.87	0.0114	P	4.9	-7.5
3	☐	5.000	4.769	38210.98	0.0284	P	2.2	-4.6
4	☐	10.000	9.520	75647.63	0.0561	P	1.8	-4.8
5	☐	100.000	96.539	733816.03	0.5632	P	1.3	-3.5
6	☐	200.000	201.762	1479283.78	1.1763	P	1.0	0.9
7	☐	1.000						

y = 0.0058 * x + 6.1567E-004
R = 0.9998
DL = 0.05973 ppb
BEC = 0.1057 ppb

Weight: <None>
Min Conc: <None>

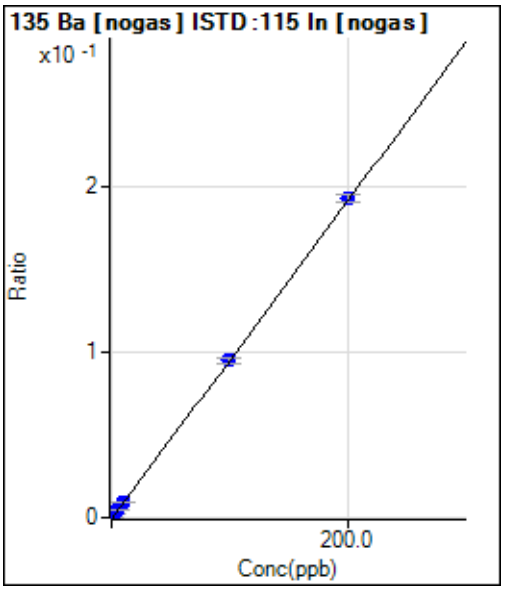


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	353.34	0.0009	P	12.9	
2	☐	2.000	1.808	6238.13	0.0150	P	3.9	-9.6
3	☐	5.000	4.725	15471.86	0.0379	P	3.6	-5.5
4	☐	10.000	9.919	31802.17	0.0786	P	0.2	-0.8
5	☐	100.000	98.390	300061.70	0.7720	P	1.3	-1.6
6	☐	200.000	200.818	603813.44	1.5747	P	1.2	0.4
7	☐	1.000						

y = 0.0078 * x + 8.7448E-004
R = 1.0000
DL = 0.04306 ppb
BEC = 0.1116 ppb

Weight: <None>
Min Conc: <None>

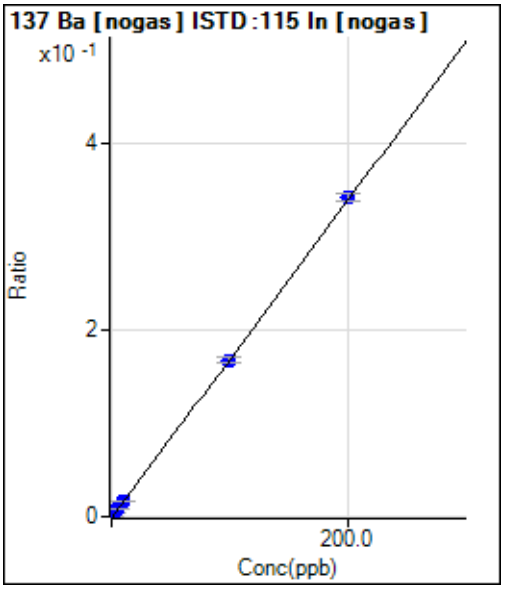
Calibration for 192_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	156.67	0.0001	P	28.6	
2	☐	2.000	1.888	3267.11	0.0019	P	4.3	-5.6
3	☐	5.000	4.670	7808.95	0.0046	P	4.6	-6.6
4	☐	10.000	9.809	16082.62	0.0095	P	3.3	-1.9
5	☐	100.000	98.726	156398.59	0.0950	P	4.0	-1.3
6	☐	200.000	200.656	309791.84	0.1929	P	2.7	0.3
7	☐	1.000						

y = 9.6106E-004 * x + 9.2820E-005
R = 1.0000
DL = 0.08294 ppb
BEC = 0.09658 ppb

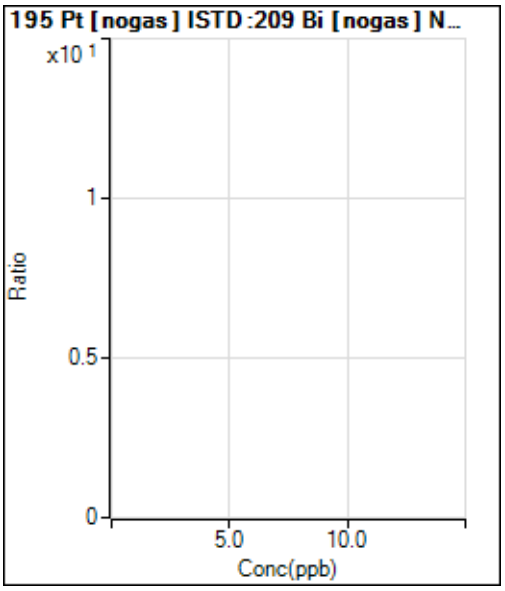
Weight: <None>
Min Conc: <None>



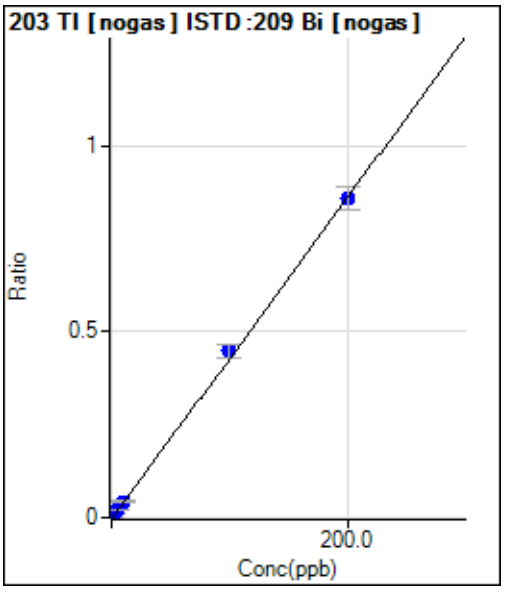
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	320.01	0.0002	P	17.3	
2	☐	2.000	1.839	5684.55	0.0033	P	5.0	-8.0
3	☐	5.000	4.774	14153.92	0.0083	P	3.0	-4.5
4	☐	10.000	9.545	27723.84	0.0164	P	2.6	-4.5
5	☐	100.000	98.192	275143.35	0.1671	P	3.5	-1.8
6	☐	200.000	200.934	548630.07	0.3417	P	2.3	0.5
7	☐	1.000						

y = 0.0017 * x + 1.8965E-004
R = 0.9999
DL = 0.05801 ppb
BEC = 0.1116 ppb

Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000						
2	☐	2.000						
3	☐	5.000						
4	☐	10.000						
5	☐	100.000						
6	☐	200.000						
7	☐	1.000						

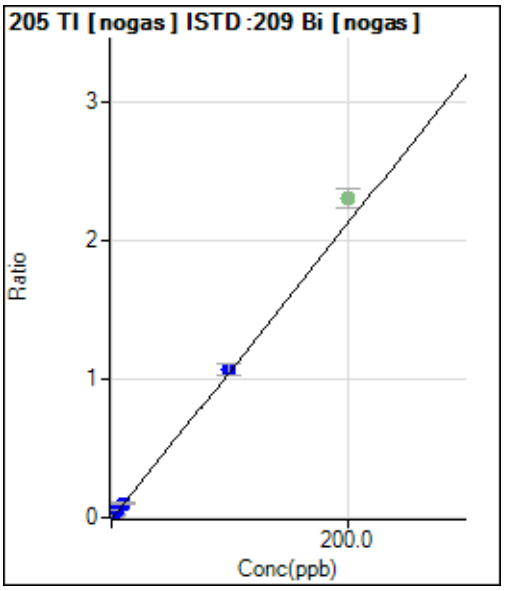


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	176.67	0.0001	P	40.8	
2	☐	2.000	1.976	15378.89	0.0087	P	5.5	-1.2
3	☐	5.000	4.983	38354.07	0.0217	P	6.6	-0.3
4	☐	10.000	9.870	76359.14	0.0429	P	7.8	-1.3
5	☐	100.000	103.498	778306.03	0.4484	P	8.3	3.5
6	☐	200.000	198.258	1516057.32	0.8589	P	6.9	-0.9
7	☐	1.000						

y = 0.0043 * x + 1.0204E-004
R = 0.9998
DL = 0.02885 ppb
BEC = 0.02356 ppb

Weight: <None>
Min Conc: <None>

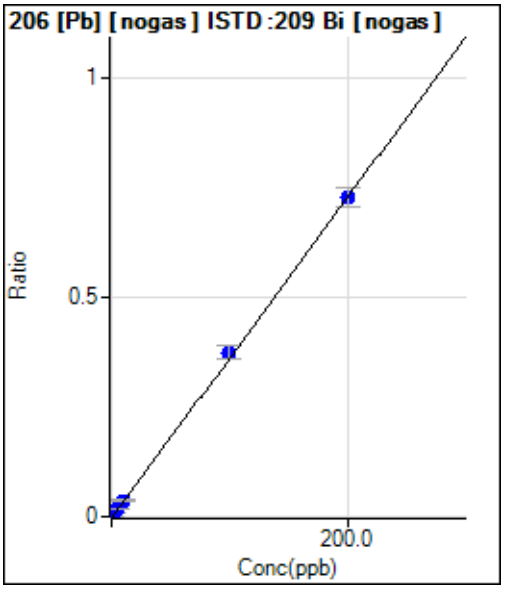
Calibration for 192_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	330.01	0.0002	P	19.8	
2	☐	2.000	1.940	37157.57	0.0210	P	7.6	-3.0
3	☐	5.000	4.788	90864.52	0.0514	P	8.2	-4.2
4	☐	10.000	9.724	185786.72	0.1042	P	7.1	-2.8
5	☐	100.000	100.039	1858918.09	1.0707	P	7.6	0.0
6	☑	200.000		4081029.73	2.3108	A	5.6	
7	☐	1.000						

y = 0.0107 * x + 1.9057E-004
R = 1.0000
DL = 0.0106 ppb
BEC = 0.01781 ppb

Weight: <None>
Min Conc: <None>

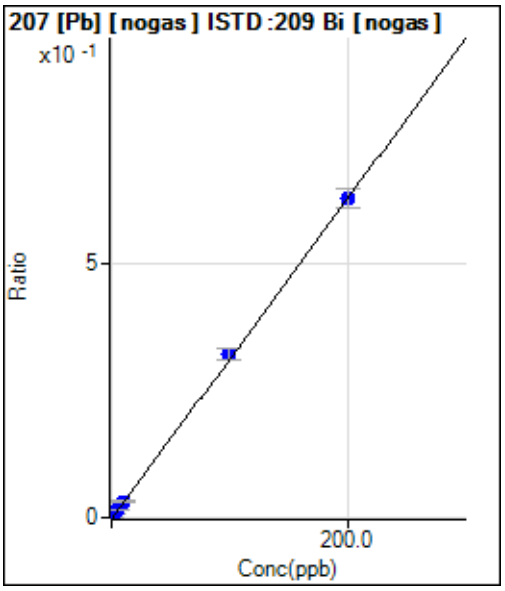


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	260.01	0.0002	P	5.2	
2	☐	2.000	1.996	13189.93	0.0074	P	8.3	-0.2
3	☐	5.000	5.099	33174.00	0.0188	P	7.3	2.0
4	☐	10.000	10.063	65684.59	0.0369	P	9.1	0.6
5	☐	100.000	102.033	646918.84	0.3727	P	7.9	2.0
6	☐	200.000	198.978	1282816.28	0.7266	P	6.3	-0.5
7	☐	1.000						

y = 0.0037 * x + 1.5007E-004
R = 0.9999
DL = 0.00645 ppb
BEC = 0.04111 ppb

Weight: <None>
Min Conc: <None>

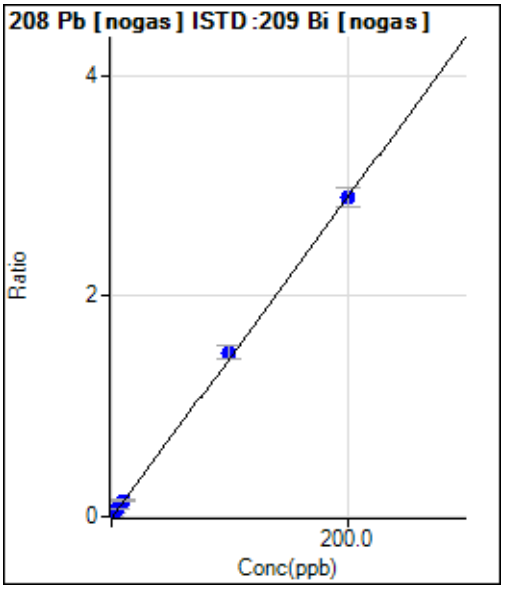
Calibration for 192_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	233.34	0.0001	P	14.8	
2	☐	2.000	2.027	11585.10	0.0065	P	9.6	1.4
3	☐	5.000	4.949	27855.47	0.0158	P	8.9	-1.0
4	☐	10.000	10.042	56778.17	0.0319	P	7.1	0.4
5	☐	100.000	101.990	559634.13	0.3223	P	7.6	2.0
6	☐	200.000	199.004	1110048.03	0.6288	P	6.6	-0.5
7	☐	1.000						

y = 0.0032 * x + 1.3460E-004
R = 0.9999
DL = 0.01893 ppb
BEC = 0.04261 ppb

Weight: <None>
Min Conc: <None>

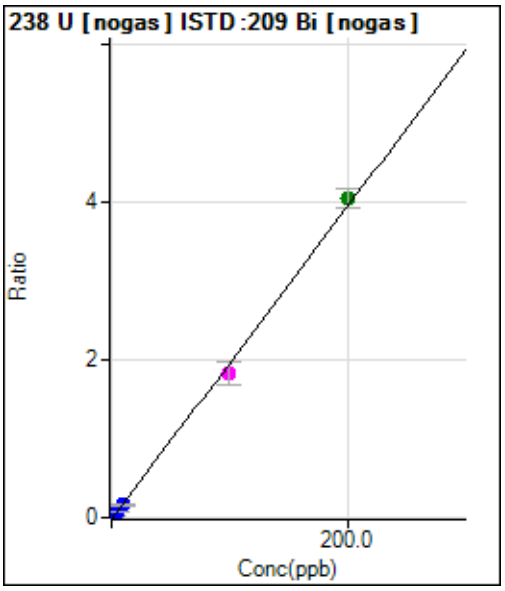


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1080.04	0.0006	P	3.0	
2	☐	2.000	2.021	53288.59	0.0301	P	8.8	1.1
3	☐	5.000	5.001	129856.26	0.0735	P	7.3	0.0
4	☐	10.000	10.059	262193.03	0.1471	P	7.6	0.6
5	☐	100.000	102.108	2583227.54	1.4879	P	7.7	2.1
6	☐	200.000	198.943	5117167.92	2.8984	P	6.4	-0.5
7	☐	1.000						

y = 0.0146 * x + 6.2346E-004
R = 0.9999
DL = 0.003794 ppb
BEC = 0.0428 ppb

Weight: <None>
Min Conc: <None>

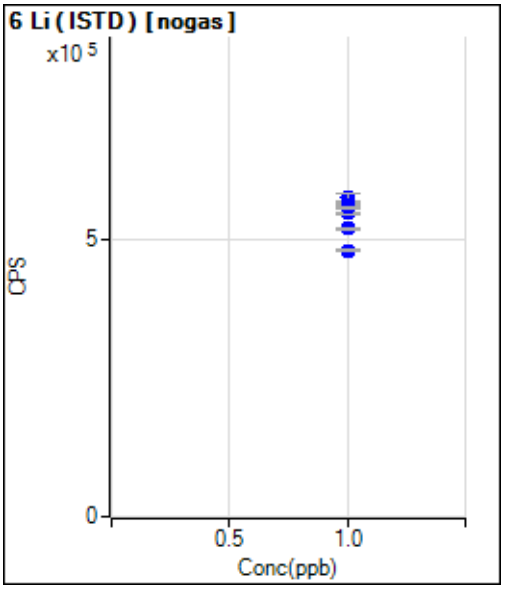
Calibration for 192_ICV.d



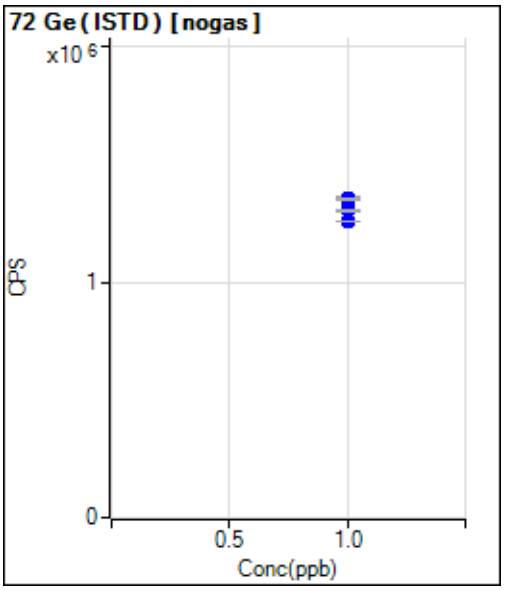
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	323.34	0.0002	P	26.3	
2	☐	2.000	1.670	59067.23	0.0333	P	7.1	-16.5
3	☐	5.000	4.115	144603.33	0.0818	P	7.0	-17.7
4	☐	10.000	8.252	291753.40	0.1638	P	8.7	-17.5
5	☐	100.000	92.300	3171470.26	1.8305	M	15.8	-7.7
6	☐	200.000	203.963	7141776.14	4.0447	A	6.3	2.0
7	☐	1.000						

y = 0.0198 * x + 1.8782E-004
R = 0.9990
DL = 0.007461 ppb
BEC = 0.009472 ppb

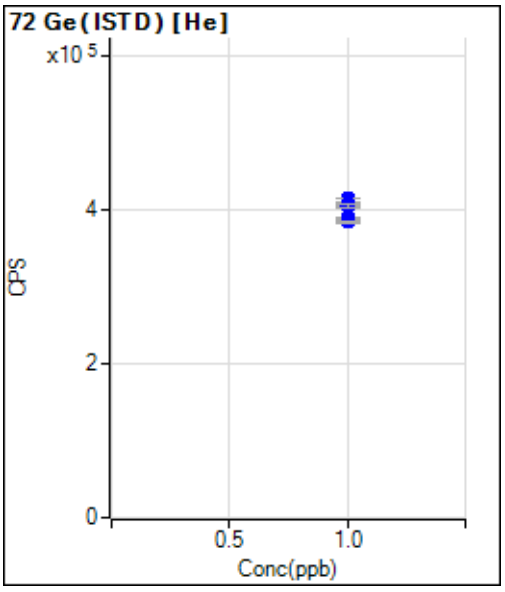
Weight: <None>
Min Conc: <None>



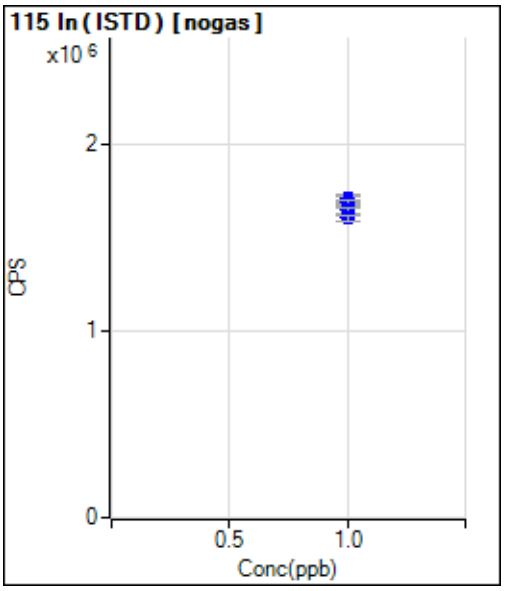
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		547662.21		P	1.0	
2	☐	1.000		576701.86		P	2.3	
3	☐	1.000		564416.71		P	0.7	
4	☐	1.000		558599.63		P	0.8	
5	☐	1.000		519668.47		P	0.5	
6	☐	1.000		479772.07		P	0.7	
7	☐	1.000						



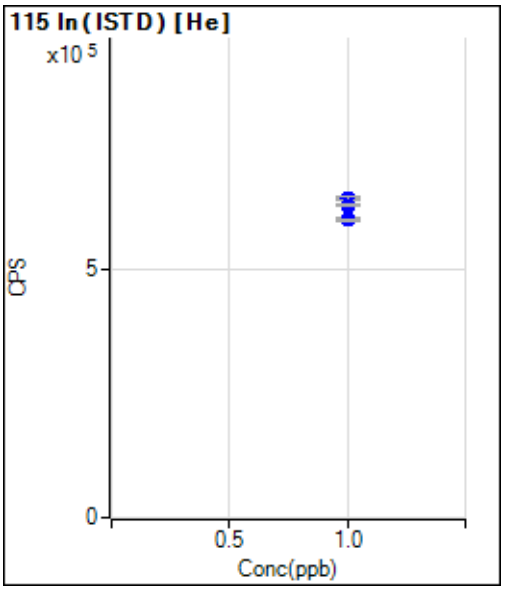
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1305251.54		P	0.5	
2	☐	1.000		1355175.71		P	0.9	
3	☐	1.000		1345222.06		P	0.3	
4	☐	1.000		1348677.69		P	0.5	
5	☐	1.000		1303034.98		P	0.2	
6	☐	1.000		1257511.05		P	0.4	
7	☐	1.000						



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		404102.16		P	0.3	
2	☐	1.000		414657.10		P	0.5	
3	☐	1.000		408189.47		P	0.4	
4	☐	1.000		404572.73		P	0.7	
5	☐	1.000		388731.98		P	0.9	
6	☐	1.000		383478.58		P	1.1	
7	☐	1.000						

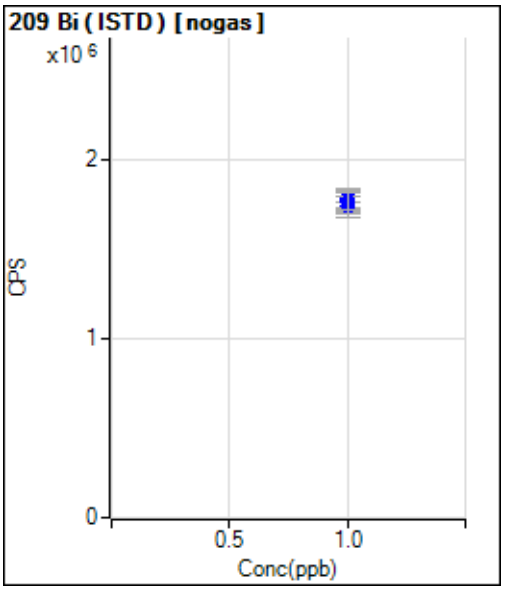


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1687270.96		P	0.2	
2	☐	1.000		1713764.63		P	2.5	
3	☐	1.000		1705366.86		P	1.8	
4	☐	1.000		1689683.91		P	1.4	
5	☐	1.000		1647750.83		P	2.3	
6	☐	1.000		1606094.24		P	1.6	
7	☐	1.000						



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		642440.79		P	0.5	
2	☐	1.000		644287.05		P	1.2	
3	☐	1.000		643446.12		P	1.1	
4	☐	1.000		630090.76		P	0.4	
5	☐	1.000		603406.05		P	0.9	
6	☐	1.000		600605.40		P	0.9	
7	☐	1.000						

Calibration for 192_ICV.d



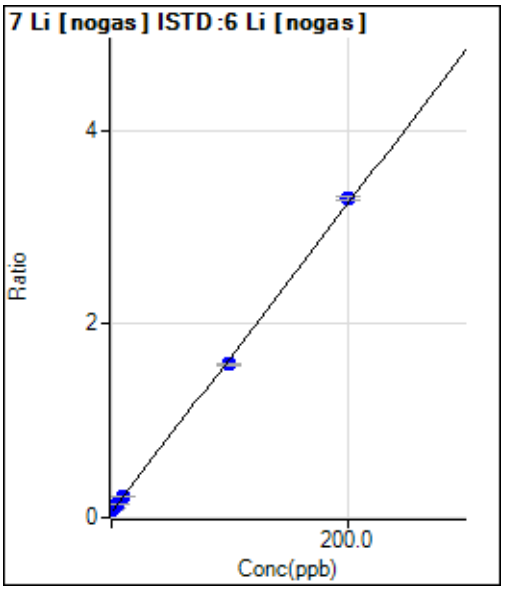
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1731431.07		P	3.5	
2	☐	1.000		1779822.42		P	7.0	
3	☐	1.000		1773555.97		P	6.8	
4	☐	1.000		1787500.34		P	6.3	
5	☐	1.000		1741963.72		P	6.5	
6	☐	1.000		1769441.95		P	5.3	
7	☐	1.000						

Calibration for 017_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\061924A.b\
Analysis File: 061924A.batch.bin
DA Date-Time: 6/19/2024 11:54:57 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	010CALB.d	CAL BLK	6/19/2024 11:45:15 AM
2	011CALS.d	2/10/200	6/19/2024 11:47:23 AM
3	012CALS.d	5/25/500	6/19/2024 11:49:32 AM
4	013CALS.d	10/50/1000	6/19/2024 11:51:38 AM
5	014CALS.d	100/500/10K	6/19/2024 11:53:44 AM
6	015CALS.d	200/1000/20K	6/19/2024 11:55:49 AM
7			

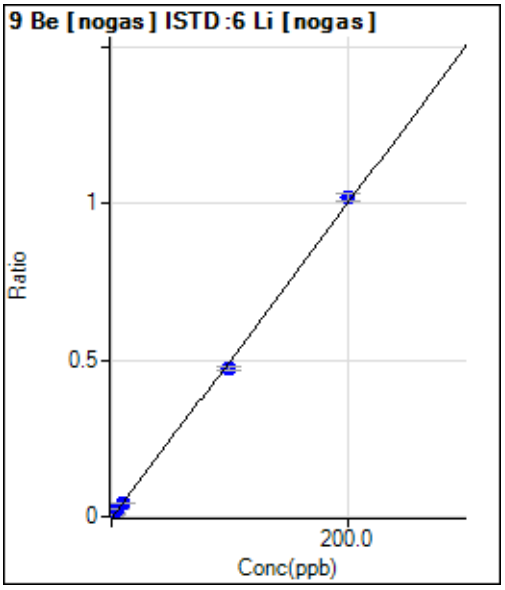
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	53653.39	0.0768	P	0.8	
2	☐	2.000	1.753	76754.10	0.1046	P	0.6	-12.3
3	☐	5.000	4.421	105951.31	0.1471	P	1.1	-11.6
4	☐	10.000	9.111	158259.36	0.2217	P	1.5	-8.9
5	☐	100.000	94.897	1057119.64	1.5864	P	0.8	-5.1
6	☐	200.000	202.613	2045821.74	3.2999	P	1.1	1.3
7	☐	1.000						

y = 0.0159 * x + 0.0768
R = 0.9996
DL = 0.113 ppb
BEC = 4.825 ppb

Weight: <None>
Min Conc: <None>

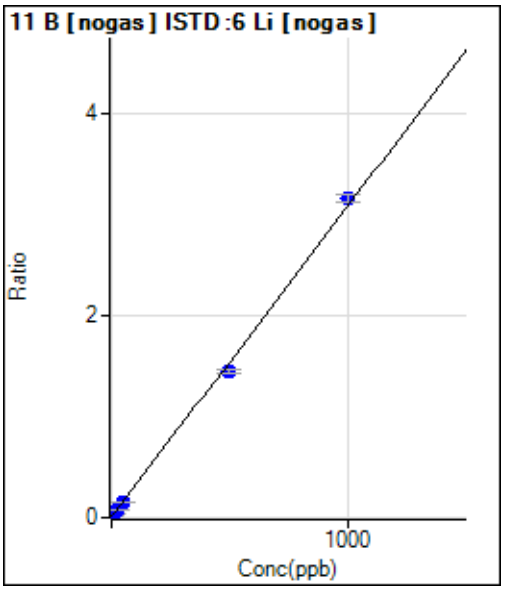


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	61.67	0.0001	P	17.7	
2	☐	2.000	1.787	6658.13	0.0091	P	5.1	-10.6
3	☐	5.000	4.457	16213.50	0.0225	P	3.4	-10.9
4	☐	10.000	9.034	32503.89	0.0455	P	2.1	-9.7
5	☐	100.000	94.468	316704.67	0.4753	P	2.2	-5.5
6	☐	200.000	202.830	632618.48	1.0204	P	1.9	1.4
7	☐	1.000						

y = 0.0050 * x + 8.8305E-005
R = 0.9995
DL = 0.00932 ppb
BEC = 0.01755 ppb

Weight: <None>
Min Conc: <None>

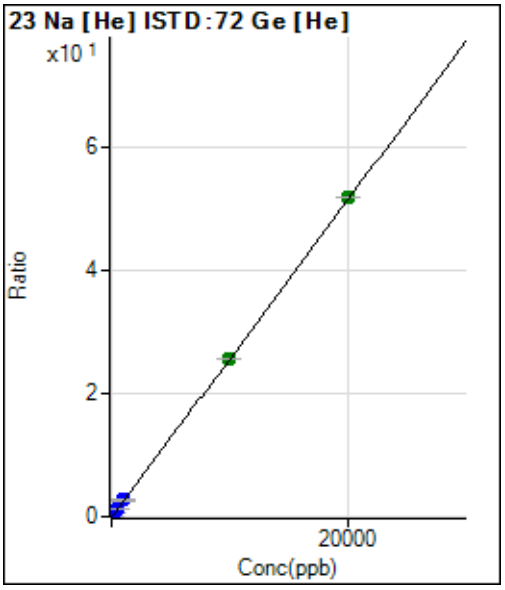
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	17047.78	0.0244	P	1.8	
2	☐	10.000	6.522	32575.68	0.0444	P	2.0	-34.8
3	☐	25.000	19.448	60592.52	0.0841	P	2.2	-22.2
4	☐	50.000	41.893	109260.25	0.1531	P	1.0	-16.2
5	☐	500.000	461.663	961000.09	1.4423	P	2.3	-7.7
6	☐	1000.000	1019.747	1956749.56	3.1563	P	2.3	2.0
7	☐	5.000						

y = 0.0031 * x + 0.0244
R = 0.9990
DL = 0.4352 ppb
BEC = 7.941 ppb

Weight: <None>
Min Conc: <None>

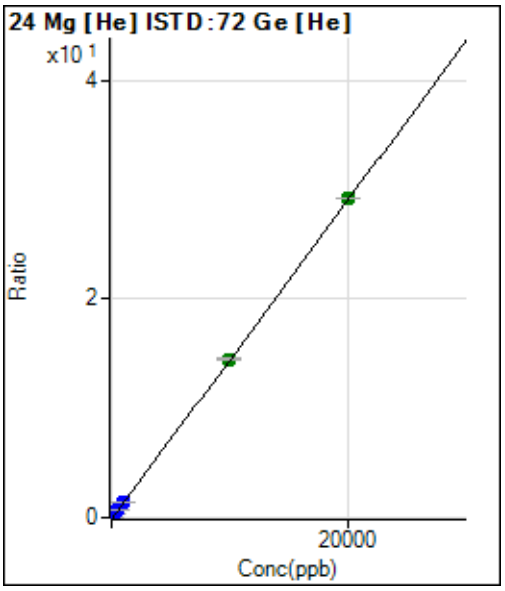


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	52857.75	0.1225	P	12.4	
2	☐	200.000	206.187	288475.11	0.6537	P	8.6	3.1
3	☐	500.000	479.617	595522.78	1.3581	P	1.9	-4.1
4	☐	1000.000	986.682	1160469.57	2.6644	P	1.4	-1.3
5	☐	10000.00	9875.169	10890658.17	25.5625	A	0.7	-1.2
6	☐	20000.00	20063.52	21657733.01	51.8093	A	0.6	0.3
7	☐	100.000						

y = 0.0026 * x + 0.1225
R = 1.0000
DL = 17.68 ppb
BEC = 47.57 ppb

Weight: <None>
Min Conc: <None>

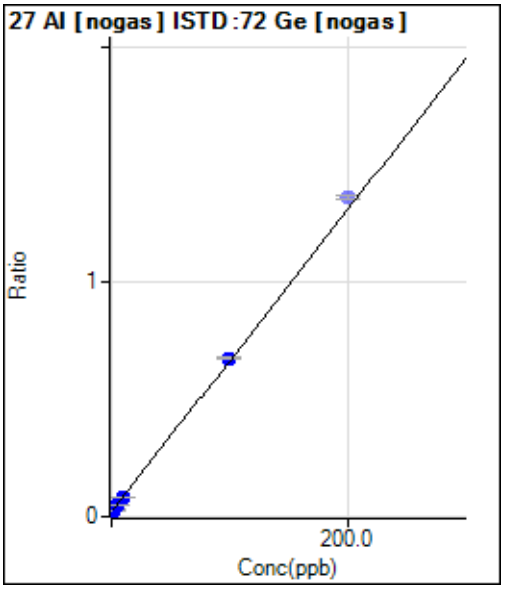
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	473.35	0.0011	P	8.0	
2	☐	200.000	199.661	129102.71	0.2926	P	0.6	-0.2
3	☐	500.000	490.995	314798.61	0.7179	P	1.2	-1.8
4	☐	1000.000	987.633	628495.80	1.4429	P	0.4	-1.2
5	☐	10000.00	9946.032	6186646.57	14.5211	A	0.5	-0.5
6	☐	20000.00	20027.83	12222952.32	29.2394	A	0.3	0.1
7	☐	100.000						

y = 0.0015 * x + 0.0011
R = 1.0000
DL = 0.1799 ppb
BEC = 0.7515 ppb

Weight: <None>
Min Conc: <None>

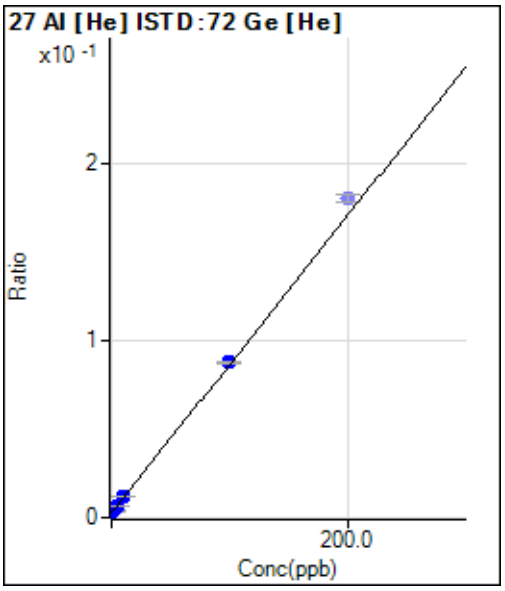


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	41238.97	0.0292	P	1.8	
2	☐	2.000	-0.115	42134.75	0.0285	P	3.0	-105.7
3	☐	5.000	3.104	71686.77	0.0492	P	0.8	-37.9
4	☐	10.000	8.491	121042.24	0.0838	P	1.4	-15.1
5	☐	100.000	100.288	955197.02	0.6735	P	0.8	0.3
6	☑	200.000		1897297.21	1.3595	P	1.5	
7	☐	1.000						

y = 0.0064 * x + 0.0292
R = 0.9998
DL = 0.2517 ppb
BEC = 4.548 ppb

Weight: <None>
Min Conc: <None>

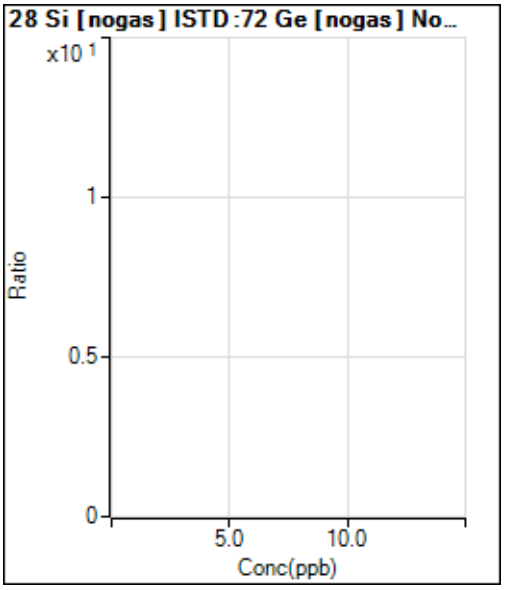
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1583.45	0.0037	P	12.1	
2	☐	2.000	0.155	1676.79	0.0038	P	3.0	-92.3
3	☐	5.000	3.484	2890.33	0.0066	P	6.7	-30.3
4	☐	10.000	9.752	5157.62	0.0118	P	1.0	-2.5
5	☐	100.000	100.138	37312.21	0.0876	P	1.7	0.1
6	☑	200.000		75227.12	0.1800	P	3.0	
7	☐	1.000						

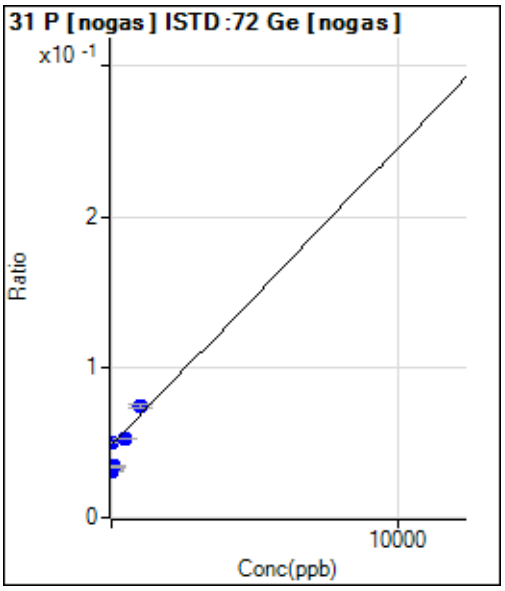
y = 8.3791E-004 * x + 0.0037
R = 0.9998
DL = 1.596 ppb
BEC = 4.38 ppb

Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000						
2	☐	100.000						
3	☐	250.000						
4	☐	500.000						
5	☐	5000.000						
6	☐	10000.00						
7	☐	50.000						

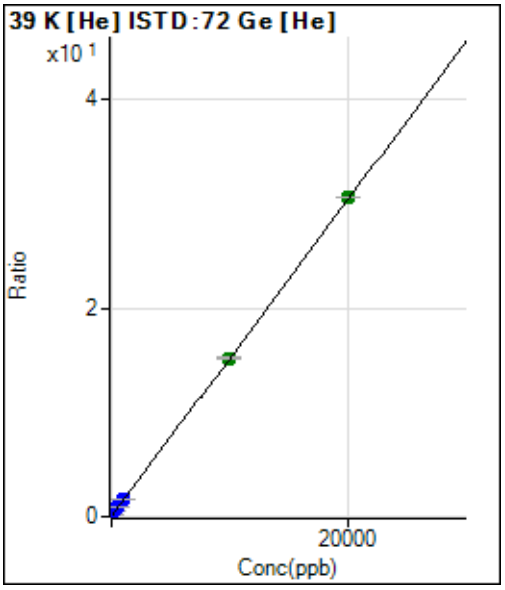
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	69882.06	0.0495	P	0.4	
2	☐	10.000	-953.100	45467.75	0.0307	P	2.0	-9631.
3	☐	25.000	-893.066	46534.09	0.0319	P	1.1	-3672.
4	☐	50.000	-789.256	49065.54	0.0340	P	2.1	-1678.
5	☐	500.000	121.337	73599.69	0.0519	P	0.2	-75.7
6	☐	1000.000	1263.877	103833.78	0.0744	P	2.5	26.4
7	☐	5.000						

y = 1.9700E-005 * x + 0.0495
R = 0.9035
DL = 31.86 ppb
BEC = 2513 ppb

Weight: <None>
Min Conc: <None>

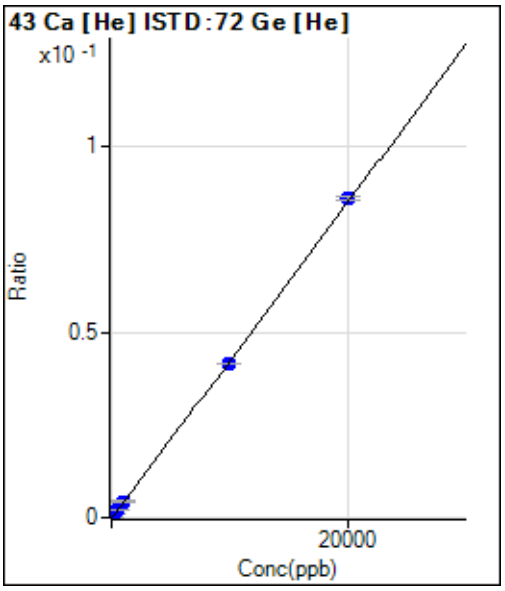


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	88103.28	0.2042	P	1.3	
2	☐	200.000	197.758	222429.60	0.5041	P	0.2	-1.1
3	☐	500.000	477.735	407228.14	0.9286	P	0.3	-4.5
4	☐	1000.000	975.763	733393.22	1.6838	P	1.1	-2.4
5	☐	10000.00	9884.801	6472898.24	15.1930	A	1.4	-1.2
6	☐	20000.00	20059.39	12800551.48	30.6212	A	0.2	0.3
7	☐	100.000						

y = 0.0015 * x + 0.2042
R = 1.0000
DL = 5.223 ppb
BEC = 134.7 ppb

Weight: <None>
Min Conc: <None>

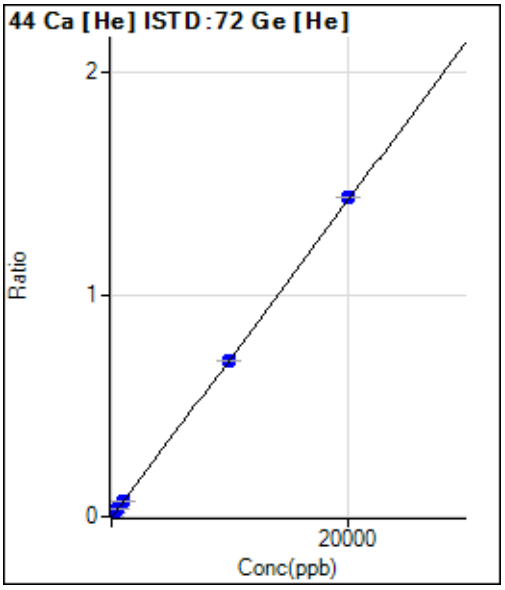
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	50.00	0.0001	P	69.4	
2	☐	200.000	201.024	430.01	0.0010	P	6.5	0.5
3	☐	500.000	476.569	943.38	0.0022	P	5.9	-4.7
4	☐	1000.000	967.715	1850.15	0.0042	P	10.9	-3.2
5	☐	10000.00	9685.974	17677.15	0.0415	P	0.3	-3.1
6	☐	20000.00	20159.20	36046.42	0.0862	P	1.7	0.8
7	☐	100.000						

y = 4.2717E-006 * x + 1.1594E-004
R = 0.9998
DL = 56.49 ppb
BEC = 27.14 ppb

Weight: <None>
Min Conc: <None>

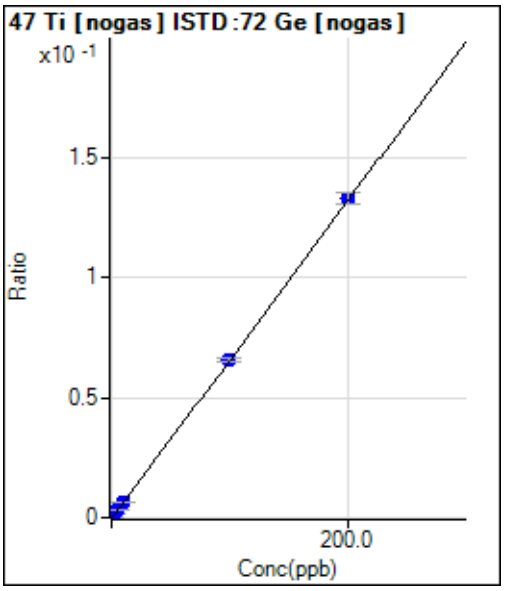


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	800.03	0.0019	P	13.1	
2	☐	200.000	198.456	7081.77	0.0160	P	6.3	-0.8
3	☐	500.000	472.612	15631.64	0.0356	P	5.2	-5.5
4	☐	1000.000	994.102	31766.81	0.0729	P	1.5	-0.6
5	☐	10000.00	9775.617	298586.66	0.7008	P	0.5	-2.2
6	☐	20000.00	20113.18	601957.91	1.4400	P	0.5	0.6
7	☐	100.000						

y = 7.1502E-005 * x + 0.0019
R = 0.9999
DL = 10.2 ppb
BEC = 25.93 ppb

Weight: <None>
Min Conc: <None>

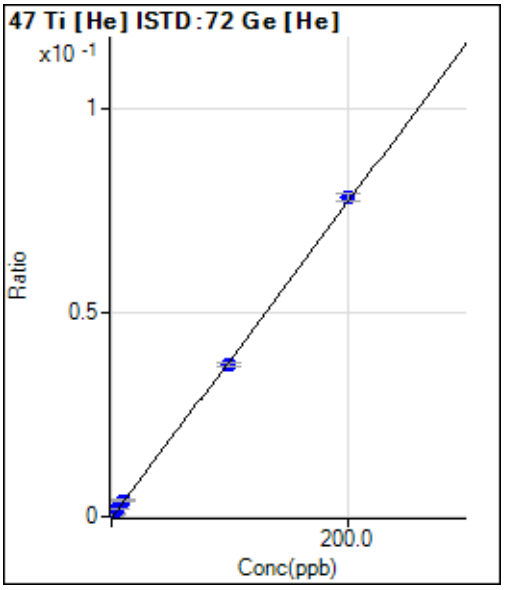
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	180.00	0.0001	P	9.2	
2	☐	2.000	1.993	2146.86	0.0015	P	4.0	-0.3
3	☐	5.000	4.706	4740.83	0.0033	P	0.6	-5.9
4	☐	10.000	9.975	9753.36	0.0067	P	2.1	-0.2
5	☐	100.000	98.850	93235.26	0.0657	P	2.2	-1.1
6	☐	200.000	200.584	185985.97	0.1333	P	3.2	0.3
7	☐	1.000						

y = 6.6373E-004 * x + 1.2748E-004
R = 1.0000
DL = 0.05311 ppb
BEC = 0.1921 ppb

Weight: <None>
Min Conc: <None>

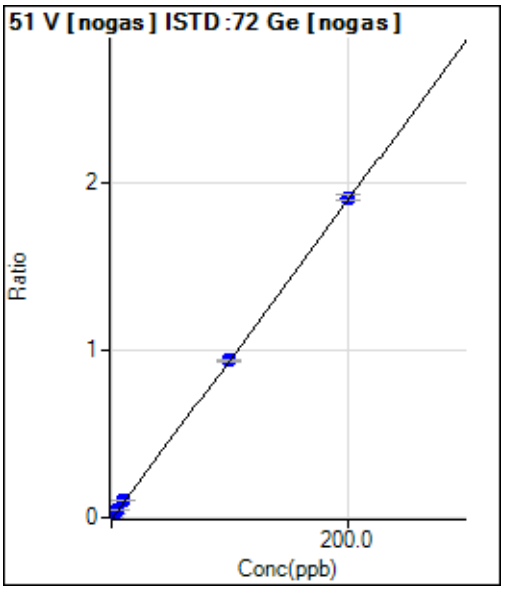


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13.33	0.0000	P	43.6	
2	☐	2.000	1.905	340.01	0.0008	P	28.2	-4.8
3	☐	5.000	4.588	793.37	0.0018	P	13.2	-8.2
4	☐	10.000	9.950	1693.46	0.0039	P	6.7	-0.5
5	☐	100.000	96.039	15878.55	0.0373	P	2.5	-4.0
6	☐	200.000	201.994	32752.29	0.0784	P	2.0	1.0
7	☐	1.000						

y = 3.8773E-004 * x + 3.0930E-005
R = 0.9997
DL = 0.1044 ppb
BEC = 0.07977 ppb

Weight: <None>
Min Conc: <None>

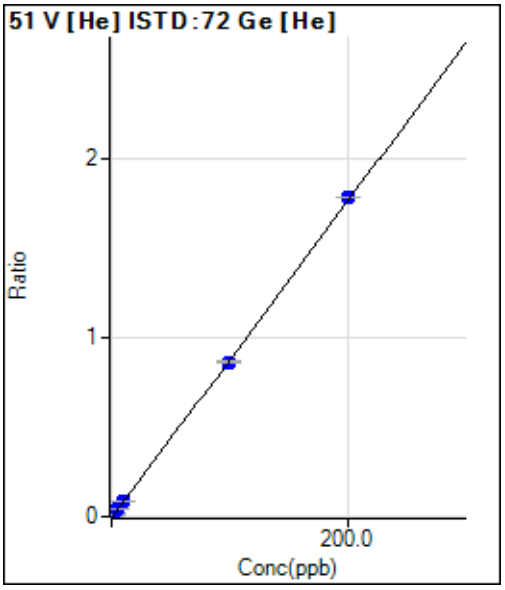
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-7376.45	-0.0052	P	-73.0	
2	☐	2.000	2.151	22646.01	0.0153	P	28.9	7.5
3	☐	5.000	5.329	66622.77	0.0457	P	3.5	6.6
4	☐	10.000	10.457	136724.48	0.0946	P	3.5	4.6
5	☐	100.000	98.848	1331267.73	0.9386	P	1.2	-1.2
6	☐	200.000	200.543	2665202.81	1.9097	P	2.0	0.3
7	☐	1.000						

y = 0.0095 * x - 0.0052
R = 1.0000
DL = 1.195 ppb
BEC = -0.5454 ppb

Weight: <None>
Min Conc: <None>

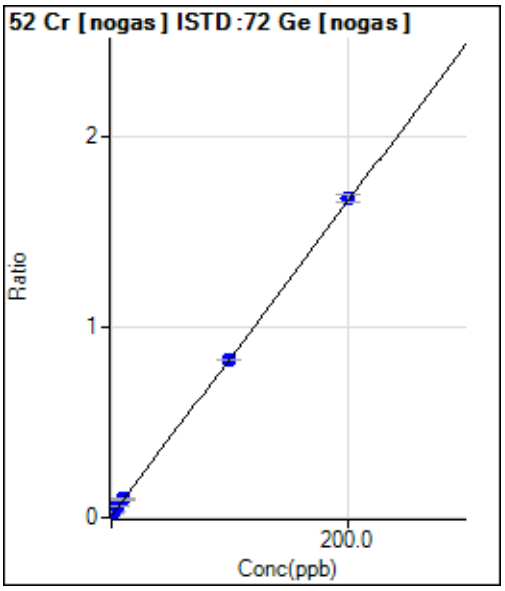


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	417.83	0.0010	P	179.2	
2	☐	2.000	1.780	7382.82	0.0167	P	21.4	-11.0
3	☐	5.000	4.755	18888.04	0.0431	P	8.7	-4.9
4	☐	10.000	9.666	37692.57	0.0866	P	4.2	-3.3
5	☐	100.000	97.348	367616.55	0.8629	P	0.8	-2.7
6	☐	200.000	201.351	745642.17	1.7837	P	0.5	0.7
7	☐	1.000						

y = 0.0089 * x + 9.7297E-004
R = 0.9999
DL = 0.5909 ppb
BEC = 0.1099 ppb

Weight: <None>
Min Conc: <None>

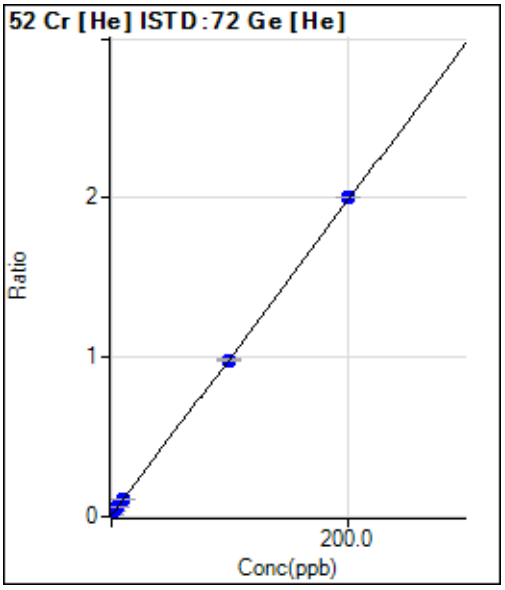
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	26567.04	0.0188	P	1.9	
2	☐	2.000	1.694	48568.38	0.0328	P	1.8	-15.3
3	☐	5.000	4.563	82447.55	0.0565	P	1.1	-8.7
4	☐	10.000	9.437	139886.09	0.0968	P	2.4	-5.6
5	☐	100.000	98.120	1176946.96	0.8298	P	1.0	-1.9
6	☐	200.000	200.982	2344700.33	1.6800	P	1.8	0.5
7	☐	1.000						

y = 0.0083 * x + 0.0188
R = 0.9999
DL = 0.1308 ppb
BEC = 2.277 ppb

Weight: <None>
Min Conc: <None>

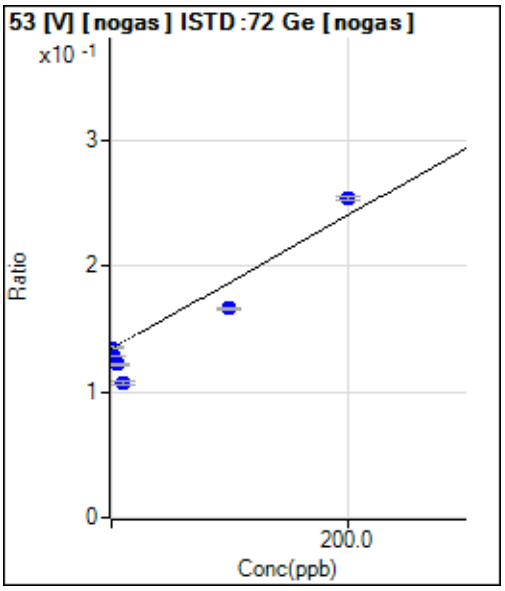


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	7455.32	0.0173	P	2.5	
2	☐	2.000	1.897	15898.59	0.0360	P	3.6	-5.1
3	☐	5.000	4.842	28553.98	0.0651	P	2.6	-3.2
4	☐	10.000	9.776	49598.25	0.1139	P	1.3	-2.2
5	☐	100.000	97.808	419087.48	0.9837	P	1.6	-2.2
6	☐	200.000	201.112	837926.73	2.0045	P	0.6	0.6
7	☐	1.000						

y = 0.0099 * x + 0.0173
R = 0.9999
DL = 0.1327 ppb
BEC = 1.749 ppb

Weight: <None>
Min Conc: <None>

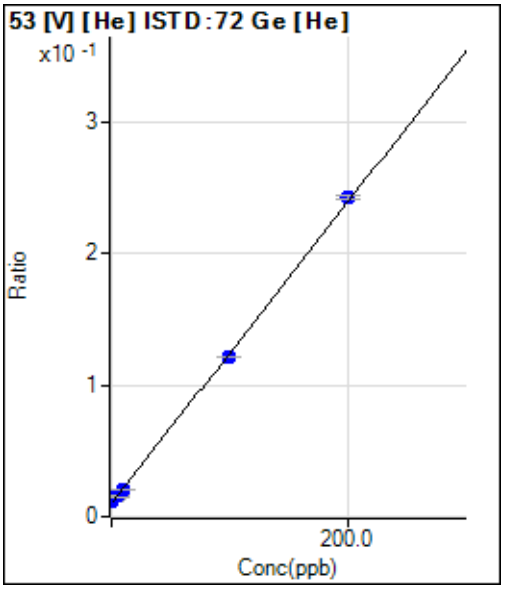
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	190446.52	0.1349	P	1.0	
2	☐	2.000	-11.240	190798.69	0.1289	P	0.2	-662.0
3	☐	5.000	-24.146	178028.78	0.1221	P	1.8	-582.9
4	☐	10.000	-52.678	154459.83	0.1069	P	2.2	-626.8
5	☐	100.000	59.661	236360.02	0.1666	P	0.8	-40.3
6	☐	200.000	224.165	354698.89	0.2541	P	1.5	12.1
7	☐	1.000						

y = 5.3190E-004 * x + 0.1349
R = 0.9652
DL = 7.416 ppb
BEC = 253.6 ppb

Weight: <None>
Min Conc: <None>

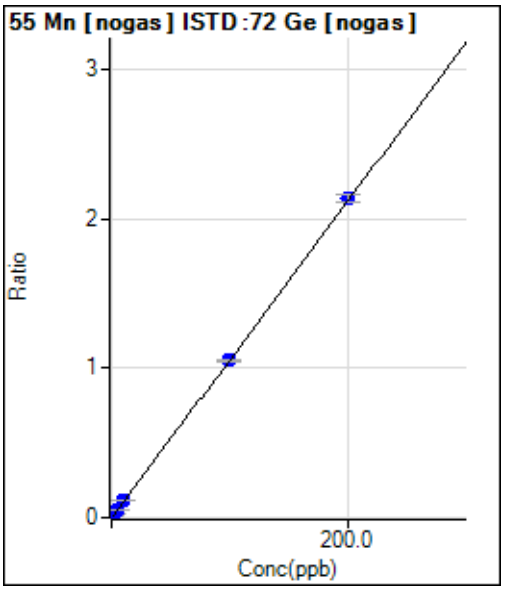


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4957.59	0.0115	P	2.3	
2	☐	2.000	2.202	6184.74	0.0140	P	5.0	10.1
3	☐	5.000	3.696	6895.06	0.0157	P	7.5	-26.1
4	☐	10.000	7.763	8882.75	0.0204	P	5.0	-22.4
5	☐	100.000	96.028	51795.53	0.1216	P	0.3	-4.0
6	☐	200.000	202.128	101666.88	0.2432	P	1.0	1.1
7	☐	1.000						

y = 0.0011 * x + 0.0115
R = 0.9997
DL = 0.699 ppb
BEC = 10.02 ppb

Weight: <None>
Min Conc: <None>

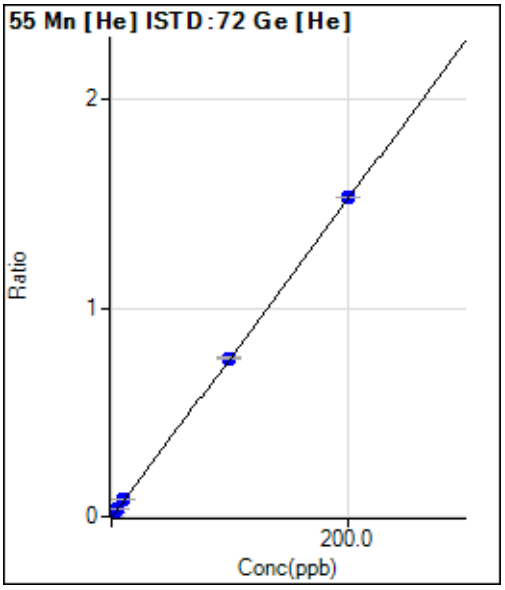
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10333.73	0.0073	P	4.3	
2	☐	2.000	1.826	39478.77	0.0267	P	3.3	-8.7
3	☐	5.000	4.640	82427.37	0.0565	P	1.3	-7.2
4	☐	10.000	9.705	159277.14	0.1102	P	1.4	-3.0
5	☐	100.000	98.516	1492037.01	1.0520	P	1.2	-1.5
6	☐	200.000	200.768	2981542.56	2.1363	P	1.9	0.4
7	☐	1.000						

y = 0.0106 * x + 0.0073
R = 1.0000
DL = 0.08919 ppb
BEC = 0.6902 ppb

Weight: <None>
Min Conc: <None>

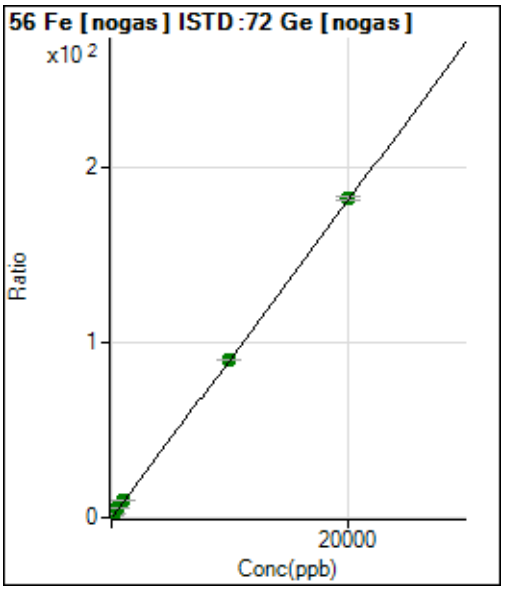


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1260.07	0.0029	P	11.9	
2	☐	2.000	1.968	7915.56	0.0179	P	7.1	-1.6
3	☐	5.000	4.998	18014.37	0.0411	P	1.0	0.0
4	☐	10.000	9.935	34309.27	0.0788	P	0.2	-0.7
5	☐	100.000	99.347	324376.37	0.7614	P	1.1	-0.7
6	☐	200.000	200.330	640564.04	1.5323	P	0.3	0.2
7	☐	1.000						

y = 0.0076 * x + 0.0029
R = 1.0000
DL = 0.1367 ppb
BEC = 0.3827 ppb

Weight: <None>
Min Conc: <None>

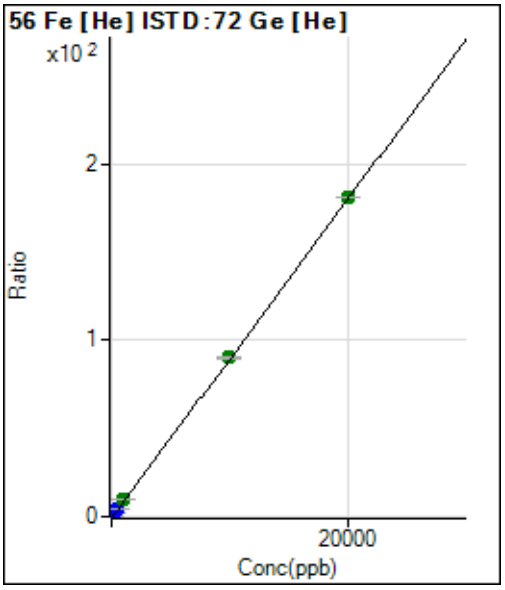
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	842151.45	0.5966	P	1.5	
2	☐	200.000	197.267	3528497.66	2.3846	A	1.6	-1.4
3	☐	500.000	501.373	7496961.97	5.1410	A	1.2	0.3
4	☐	1000.000	1013.044	14129775.62	9.7787	A	1.5	1.3
5	☐	10000.00	9877.471	127824711.4	90.1249	A	0.6	-1.2
6	☐	20000.00	20060.60	254600362.8	182.423	A	0.7	0.3
7	☐	100.000						

y = 0.0091 * x + 0.5966
R = 1.0000
DL = 2.877 ppb
BEC = 65.82 ppb

Weight: <None>
Min Conc: <None>

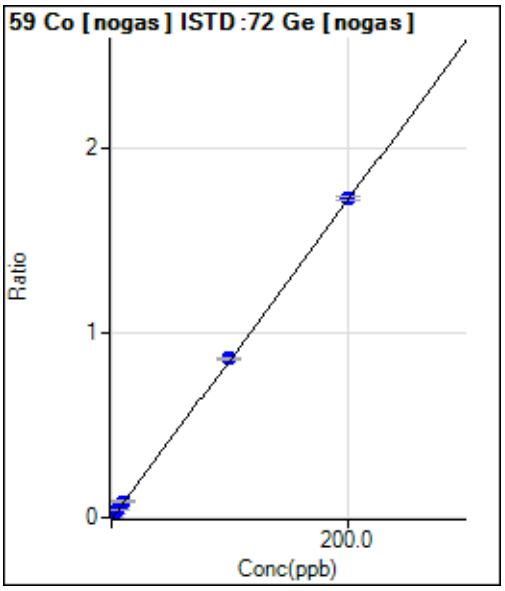


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13653.04	0.0316	P	3.1	
2	☐	200.000	197.251	802271.63	1.8182	P	0.6	-1.4
3	☐	500.000	491.873	1967361.90	4.4866	P	1.8	-1.6
4	☐	1000.000	1039.715	4115522.86	9.4485	A	0.2	4.0
5	☐	10000.00	9955.851	38429955.26	90.2037	A	2.0	-0.4
6	☐	20000.00	20020.32	75813590.54	181.359	A	0.2	0.1
7	☐	100.000						

y = 0.0091 * x + 0.0316
R = 1.0000
DL = 0.3284 ppb
BEC = 3.494 ppb

Weight: <None>
Min Conc: <None>

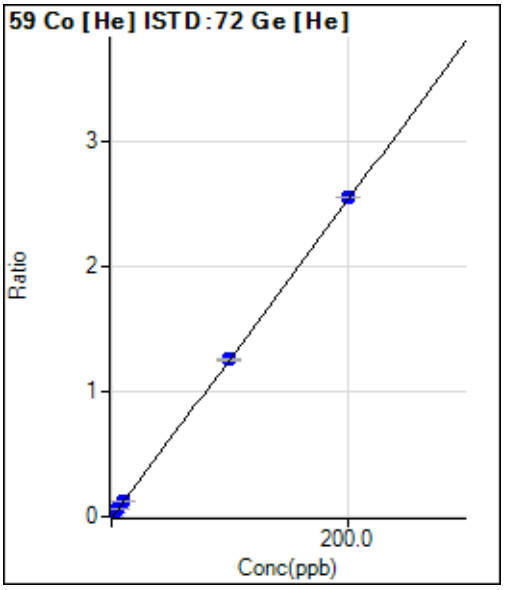
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	376.68	0.0003	P	9.9	
2	☐	2.000	2.004	26052.80	0.0176	P	2.9	0.2
3	☐	5.000	4.945	62797.53	0.0431	P	1.6	-1.1
4	☐	10.000	10.119	126931.51	0.0878	P	2.5	1.2
5	☐	100.000	99.505	1221924.02	0.8615	P	2.0	-0.5
6	☐	200.000	200.243	2419335.48	1.7334	P	1.3	0.1
7	☐	1.000						

y = 0.0087 * x + 2.6669E-004
R = 1.0000
DL = 0.009146 ppb
BEC = 0.03081 ppb

Weight: <None>
Min Conc: <None>

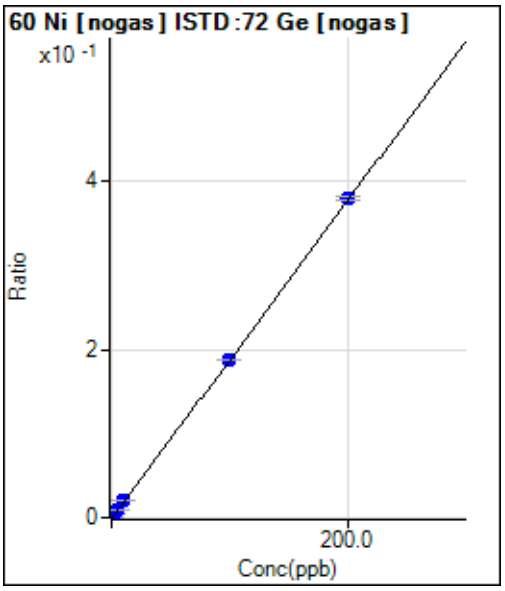


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	173.33	0.0004	P	8.8	
2	☐	2.000	2.006	11447.87	0.0259	P	1.5	0.3
3	☐	5.000	4.994	28056.50	0.0640	P	1.5	-0.1
4	☐	10.000	9.879	54950.49	0.1262	P	3.8	-1.2
5	☐	100.000	98.564	534749.59	1.2551	P	1.2	-1.4
6	☐	200.000	200.724	1068334.59	2.5556	P	0.4	0.4
7	☐	1.000						

y = 0.0127 * x + 4.0174E-004
R = 1.0000
DL = 0.008325 ppb
BEC = 0.03156 ppb

Weight: <None>
Min Conc: <None>

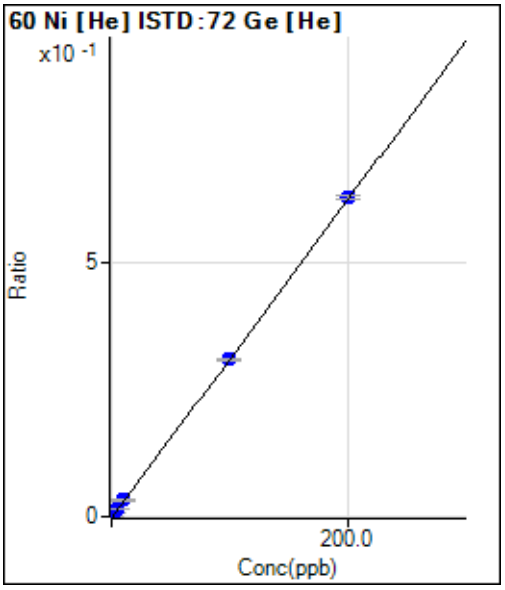
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	533.35	0.0004	P	10.6	
2	☐	2.000	2.099	6448.18	0.0044	P	6.6	4.9
3	☐	5.000	5.075	14580.66	0.0100	P	2.1	1.5
4	☐	10.000	10.146	28343.66	0.0196	P	1.4	1.5
5	☐	100.000	99.281	267481.58	0.1886	P	0.4	-0.7
6	☐	200.000	200.349	530632.06	0.3802	P	1.4	0.2
7	☐	1.000						

y = 0.0019 * x + 3.7779E-004
R = 1.0000
DL = 0.0632 ppb
BEC = 0.1993 ppb

Weight: <None>
Min Conc: <None>

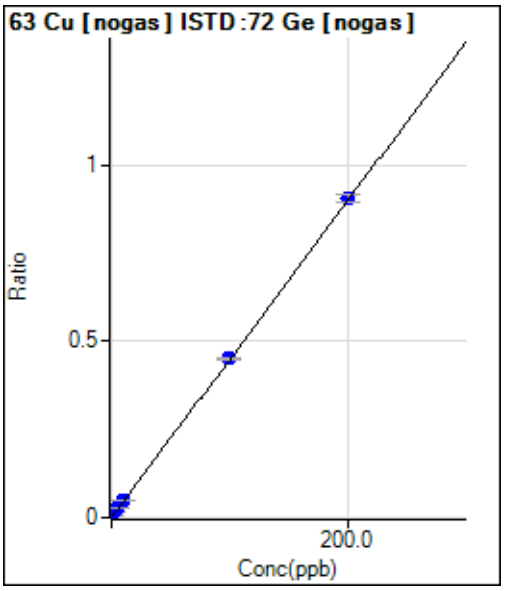


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	160.00	0.0004	P	28.7	
2	☐	2.000	2.037	2973.68	0.0067	P	6.2	1.8
3	☐	5.000	5.141	7208.53	0.0164	P	0.7	2.8
4	☐	10.000	10.376	14283.64	0.0328	P	4.5	3.8
5	☐	100.000	98.762	131665.34	0.3090	P	1.5	-1.2
6	☐	200.000	200.596	262228.38	0.6273	P	0.9	0.3
7	☐	1.000						

y = 0.0031 * x + 3.7083E-004
R = 1.0000
DL = 0.102 ppb
BEC = 0.1187 ppb

Weight: <None>
Min Conc: <None>

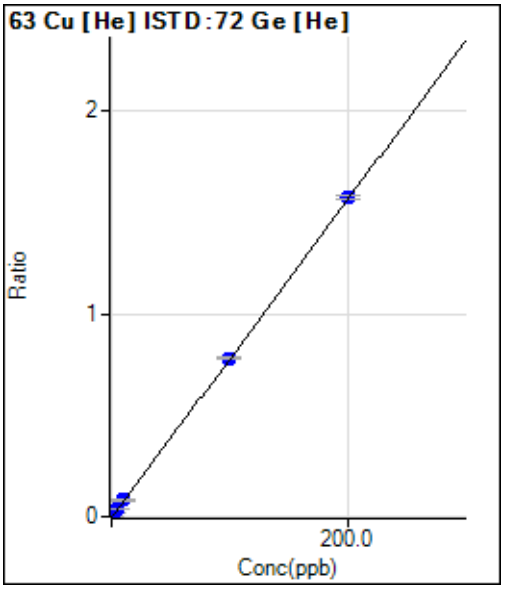
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6968.39	0.0049	P	9.3	
2	☐	2.000	1.984	20514.26	0.0139	P	2.5	-0.8
3	☐	5.000	4.894	39298.41	0.0269	P	1.9	-2.1
4	☐	10.000	10.274	73918.33	0.0512	P	1.0	2.7
5	☐	100.000	99.079	639148.14	0.4506	P	1.2	-0.9
6	☐	200.000	200.450	1265382.59	0.9067	P	1.9	0.2
7	☐	1.000						

y = 0.0045 * x + 0.0049
R = 1.0000
DL = 0.3068 ppb
BEC = 1.097 ppb

Weight: <None>
Min Conc: <None>

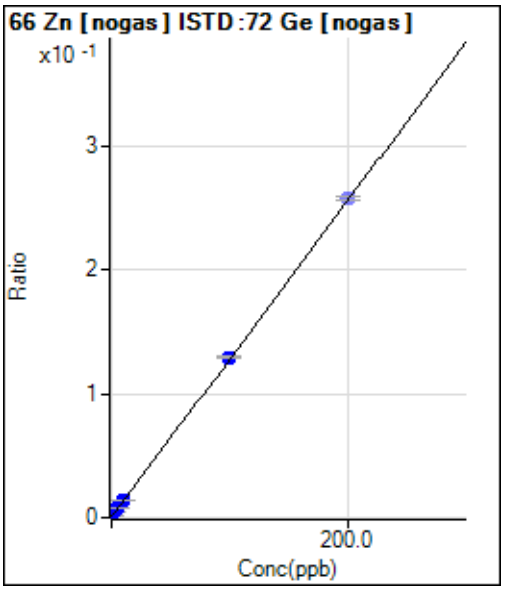


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	606.69	0.0014	P	14.7	
2	☐	2.000	2.013	7602.09	0.0172	P	3.4	0.7
3	☐	5.000	5.050	18021.10	0.0411	P	1.1	1.0
4	☐	10.000	10.156	35378.58	0.0812	P	1.8	1.6
5	☐	100.000	99.174	332682.66	0.7809	P	0.9	-0.8
6	☐	200.000	200.404	659033.19	1.5765	P	0.7	0.2
7	☐	1.000						

y = 0.0079 * x + 0.0014
R = 1.0000
DL = 0.07896 ppb
BEC = 0.1789 ppb

Weight: <None>
Min Conc: <None>

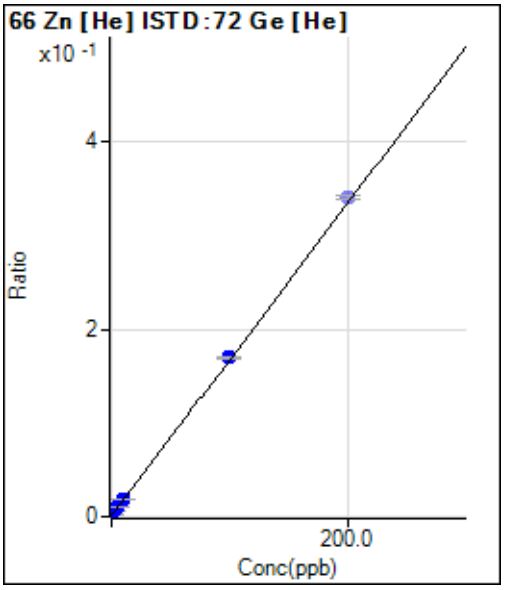
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2580.27	0.0018	P	4.4	
2	☐	2.000	1.982	6454.86	0.0044	P	11.0	-0.9
3	☐	5.000	4.923	11851.56	0.0081	P	5.3	-1.5
4	☐	10.000	9.910	20968.27	0.0145	P	1.5	-0.9
5	☐	100.000	100.013	184136.38	0.1298	P	1.6	0.0
6	☑	200.000		360493.98	0.2583	P	1.2	
7	☐	1.000						

y = 0.0013 * x + 0.0018
R = 1.0000
DL = 0.1867 ppb
BEC = 1.428 ppb

Weight: <None>
Min Conc: <None>

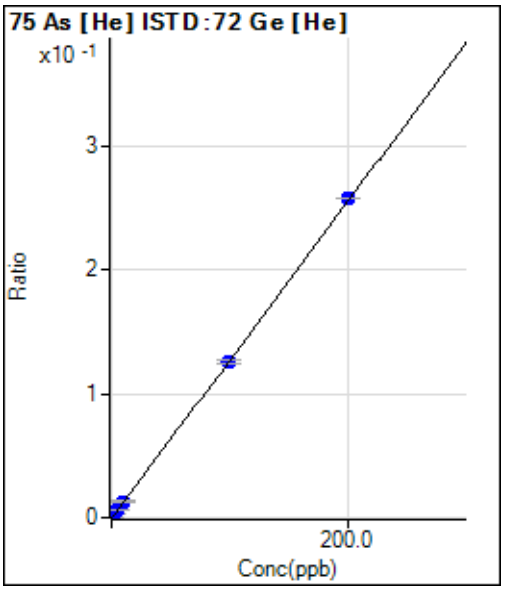


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1086.73	0.0025	P	4.1	
2	☐	2.000	1.851	2476.91	0.0056	P	9.6	-7.5
3	☐	5.000	4.757	4590.77	0.0105	P	3.5	-4.9
4	☐	10.000	9.646	8119.00	0.0186	P	1.1	-3.5
5	☐	100.000	100.051	72307.43	0.1697	P	0.7	0.1
6	☑	200.000		142633.57	0.3412	P	0.8	
7	☐	1.000						

y = 0.0017 * x + 0.0025
R = 1.0000
DL = 0.1852 ppb
BEC = 1.507 ppb

Weight: <None>
Min Conc: <None>

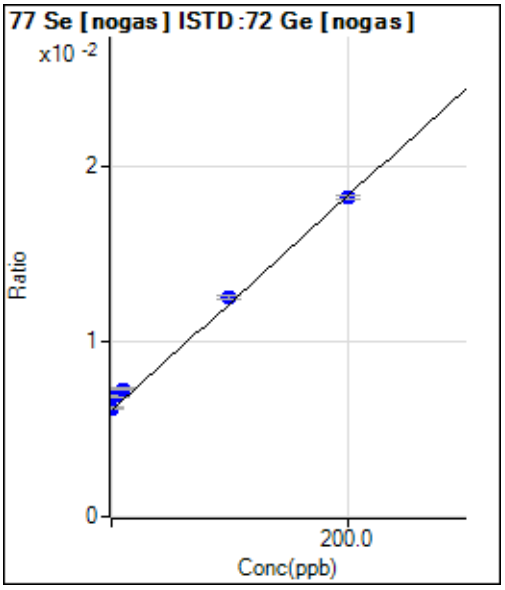
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	256.67	0.0006	P	18.0	
2	☐	2.000	1.906	1338.96	0.0030	P	2.4	-4.7
3	☐	5.000	4.704	2901.41	0.0066	P	2.1	-5.9
4	☐	10.000	9.771	5706.67	0.0131	P	1.8	-2.3
5	☐	100.000	98.002	53695.29	0.1260	P	2.1	-2.0
6	☐	200.000	201.019	107807.88	0.2579	P	0.2	0.5
7	☐	1.000						

y = 0.0013 * x + 5.9474E-004
R = 0.9999
DL = 0.2506 ppb
BEC = 0.4646 ppb

Weight: <None>
Min Conc: <None>

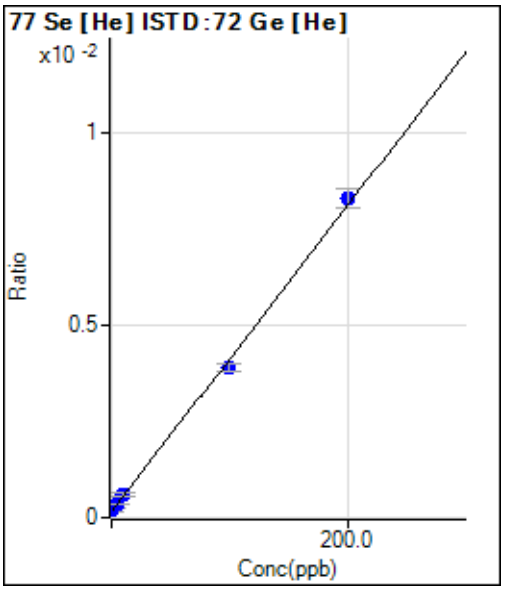


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8696.01	0.0062	P	2.0	
2	☐	2.000	13.085	10297.04	0.0070	P	2.7	554.2
3	☐	5.000	11.984	10050.24	0.0069	P	1.7	139.7
4	☐	10.000	18.495	10533.87	0.0073	P	1.5	84.9
5	☐	100.000	103.699	17724.17	0.0125	P	1.3	3.7
6	☐	200.000	197.440	25435.47	0.0182	P	1.1	-1.3
7	☐	1.000						

y = 6.1113E-005 * x + 0.0062
R = 0.9988
DL = 6.036 ppb
BEC = 100.8 ppb

Weight: <None>
Min Conc: <None>

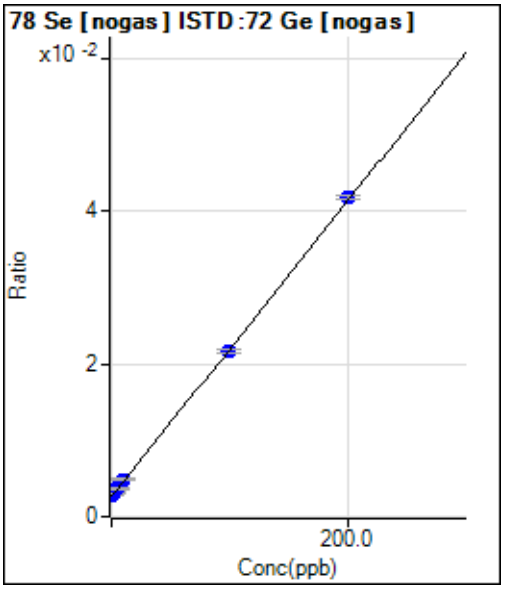
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	86.67	0.0002	P	29.4	
2	☐	2.000	2.742	136.67	0.0003	P	30.8	37.1
3	☐	5.000	3.929	156.67	0.0004	P	9.6	-21.4
4	☐	10.000	9.778	256.68	0.0006	P	18.7	-2.2
5	☐	100.000	92.963	1660.12	0.0039	P	5.3	-7.0
6	☐	200.000	203.549	3467.13	0.0083	P	6.4	1.8
7	☐	1.000						

y = 3.9759E-005 * x + 2.0103E-004
R = 0.9991
DL = 4.457 ppb
BEC = 5.056 ppb

Weight: <None>
Min Conc: <None>

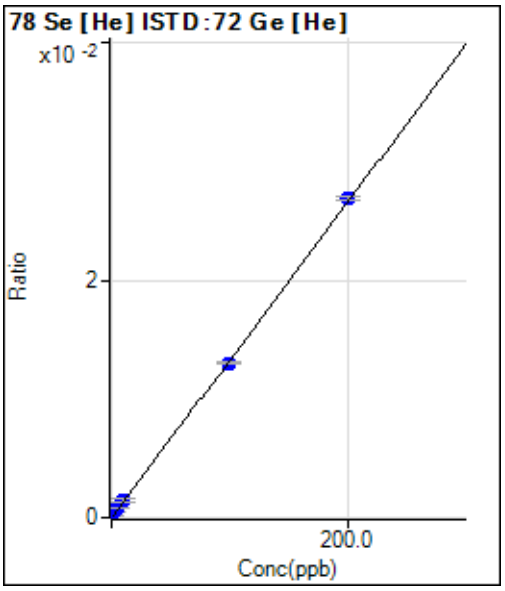


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4003.96	0.0028	P	6.2	
2	☐	2.000	1.315	4574.13	0.0031	P	4.2	-34.3
3	☐	5.000	4.325	5357.73	0.0037	P	10.4	-13.5
4	☐	10.000	10.685	7088.49	0.0049	P	5.7	6.9
5	☐	100.000	97.212	30735.47	0.0217	P	2.1	-2.8
6	☐	200.000	201.383	58411.66	0.0419	P	1.0	0.7
7	☐	1.000						

y = 1.9374E-004 * x + 0.0028
R = 0.9999
DL = 2.744 ppb
BEC = 14.64 ppb

Weight: <None>
Min Conc: <None>

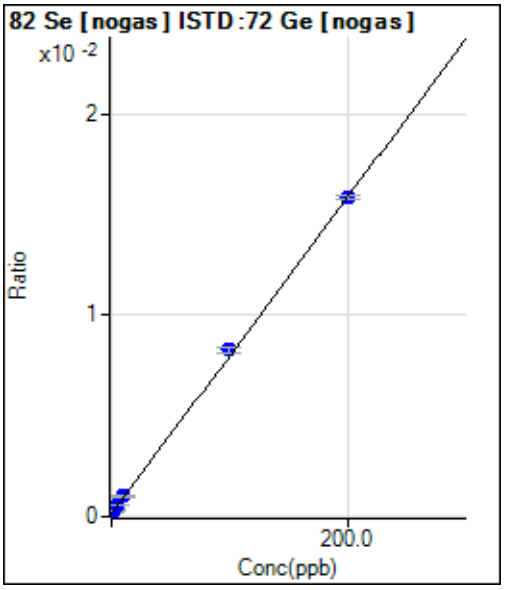
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	50.67	0.0001	P	9.5	
2	☐	2.000	2.414	193.33	0.0004	P	9.4	20.7
3	☐	5.000	5.039	345.34	0.0008	P	7.6	0.8
4	☐	10.000	10.049	632.68	0.0015	P	12.1	0.5
5	☐	100.000	97.129	5551.05	0.0130	P	0.9	-2.9
6	☐	200.000	201.428	11242.28	0.0269	P	1.8	0.7
7	☐	1.000						

y = 1.3293E-004 * x + 1.1741E-004
R = 0.9998
DL = 0.2525 ppb
BEC = 0.8832 ppb

Weight: <None>
Min Conc: <None>

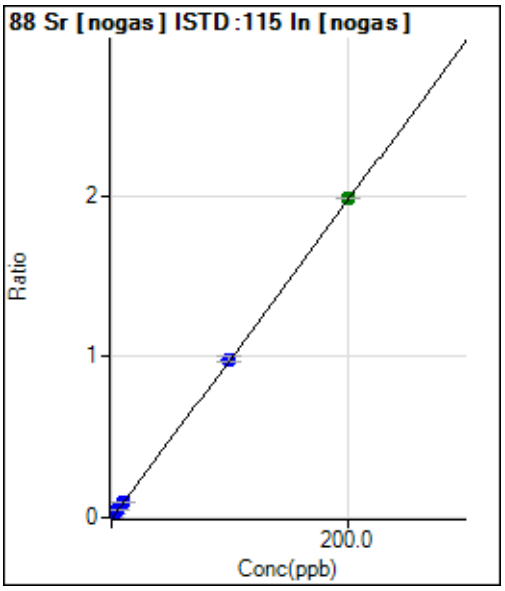


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	316.68	0.0002	P	12.5	
2	☐	2.000	1.214	473.35	0.0003	P	13.6	-39.3
3	☐	5.000	4.269	816.71	0.0006	P	0.8	-14.6
4	☐	10.000	9.964	1456.77	0.0010	P	7.2	-0.4
5	☐	100.000	102.414	11734.86	0.0083	P	2.8	2.4
6	☐	200.000	198.821	22123.51	0.0159	P	1.4	-0.6
7	☐	1.000						

y = 7.8600E-005 * x + 2.2444E-004
R = 0.9999
DL = 1.074 ppb
BEC = 2.855 ppb

Weight: <None>
Min Conc: <None>

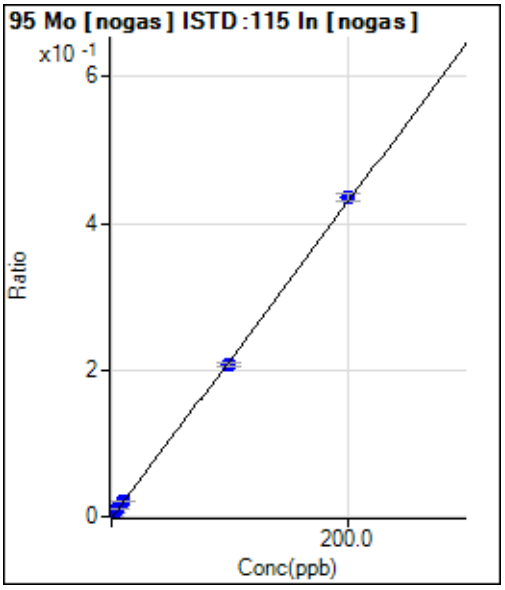
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1363.42	0.0008	P	5.1	
2	☐	2.000	1.960	35259.14	0.0202	P	2.4	-2.0
3	☐	5.000	4.875	84993.69	0.0491	P	1.0	-2.5
4	☐	10.000	9.795	168530.76	0.0978	P	0.5	-2.1
5	☐	100.000	99.314	1655391.38	0.9841	P	3.0	-0.7
6	☐	200.000	200.357	3247327.04	1.9845	A	0.4	0.2
7	☐	1.000						

y = 0.0099 * x + 8.1334E-004
R = 1.0000
DL = 0.01246 ppb
BEC = 0.08215 ppb

Weight: <None>
Min Conc: <None>

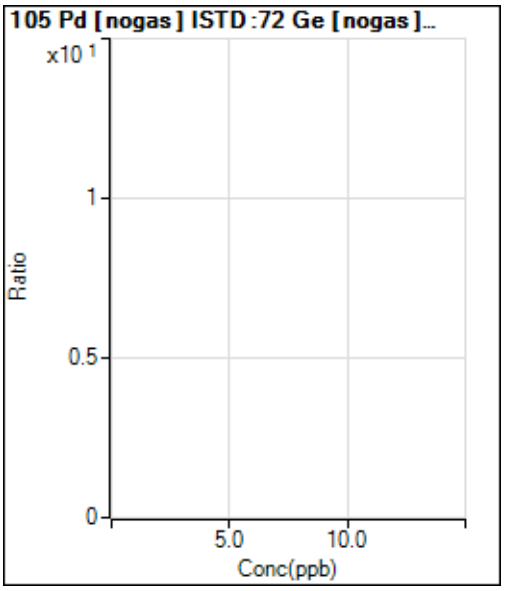


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	363.35	0.0002	P	23.4	
2	☐	2.000	1.844	7315.29	0.0042	P	2.2	-7.8
3	☐	5.000	4.533	17307.02	0.0100	P	2.7	-9.3
4	☐	10.000	9.631	36185.10	0.0210	P	2.4	-3.7
5	☐	100.000	96.132	349189.53	0.2076	P	2.4	-3.9
6	☐	200.000	201.966	713267.46	0.4359	P	1.9	1.0
7	☐	1.000						

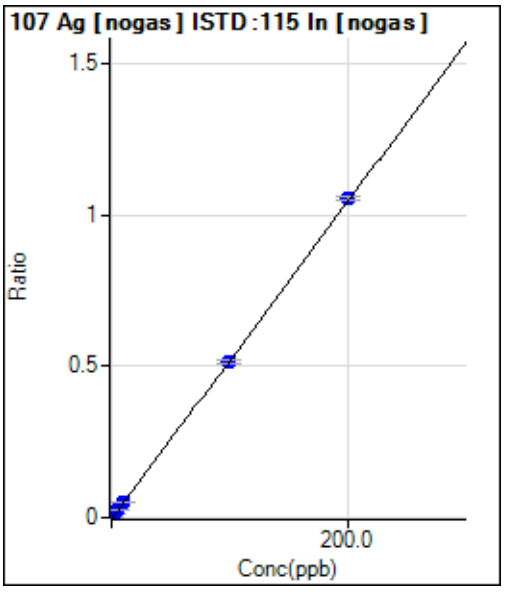
y = 0.0022 * x + 2.1679E-004
R = 0.9997
DL = 0.07046 ppb
BEC = 0.1005 ppb

Weight: <None>
Min Conc: <None>

Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000						
2	☐	2.000						
3	☐	5.000						
4	☐	10.000						
5	☐	100.000						
6	☐	200.000						
7	☐	1.000						



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	150.00	0.0001	P	19.8	
2	☐	2.000	1.978	18261.73	0.0105	P	0.1	-1.1
3	☐	5.000	4.901	44702.39	0.0258	P	0.6	-2.0
4	☐	10.000	9.870	89409.60	0.0519	P	2.5	-1.3
5	☐	100.000	97.922	864654.02	0.5140	P	2.7	-2.1
6	☐	200.000	201.048	1726840.03	1.0552	P	1.4	0.5
7	☐	1.000						

y = 0.0052 * x + 8.9475E-005

R = 0.9999

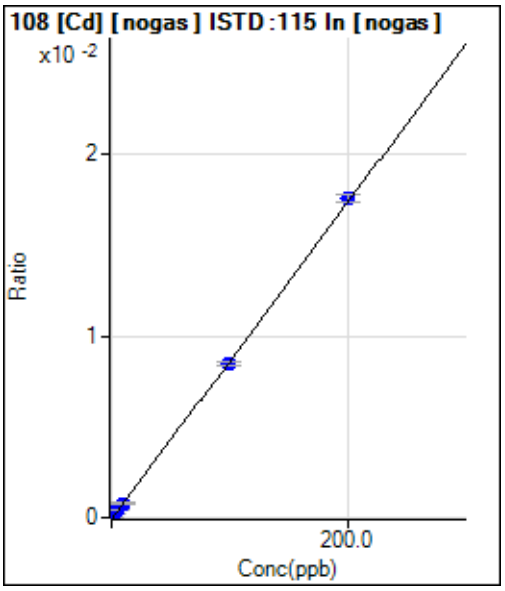
DL = 0.0101 ppb

BEC = 0.01705 ppb

Weight: <None>

Min Conc: <None>

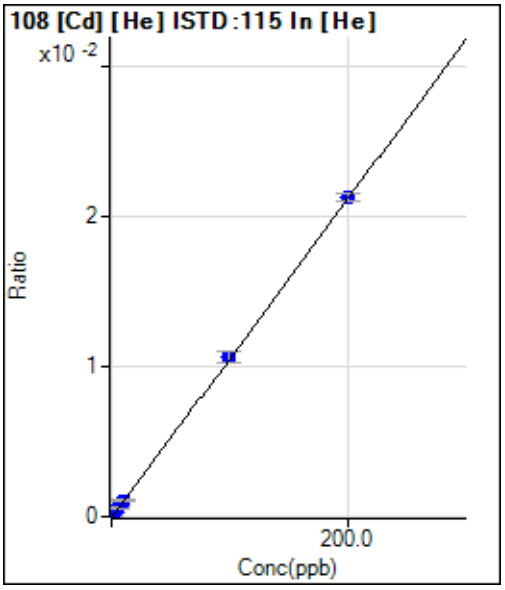
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3.33	0.0000	P	173.2	
2	☐	2.000	2.253	346.68	0.0002	P	12.1	12.6
3	☐	5.000	5.207	790.03	0.0005	P	6.5	4.1
4	☐	10.000	8.480	1276.74	0.0007	P	14.2	-15.2
5	☐	100.000	97.005	14240.54	0.0085	P	3.3	-3.0
6	☐	200.000	201.566	28778.87	0.0176	P	2.5	0.8
7	☐	1.000						

y = 8.7248E-005 * x + 2.0017E-006
R = 0.9998
DL = 0.1192 ppb
BEC = 0.02294 ppb

Weight: <None>
Min Conc: <None>

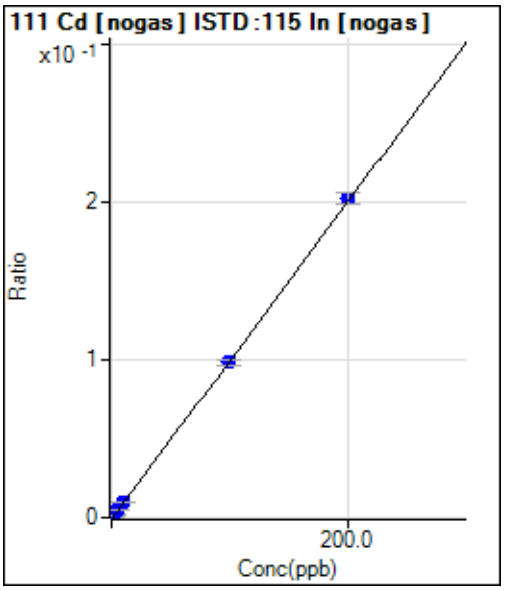


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10.00	0.0000	P	101.0	
2	☐	2.000	2.181	173.34	0.0002	P	31.5	9.0
3	☐	5.000	5.131	390.01	0.0006	P	28.8	2.6
4	☐	10.000	9.985	743.37	0.0011	P	11.5	-0.2
5	☐	100.000	99.966	6991.83	0.0107	P	6.6	0.0
6	☐	200.000	200.013	13813.42	0.0213	P	2.9	0.0
7	☐	1.000						

y = 1.0647E-004 * x + 1.4668E-005
R = 1.0000
DL = 0.4175 ppb
BEC = 0.1378 ppb

Weight: <None>
Min Conc: <None>

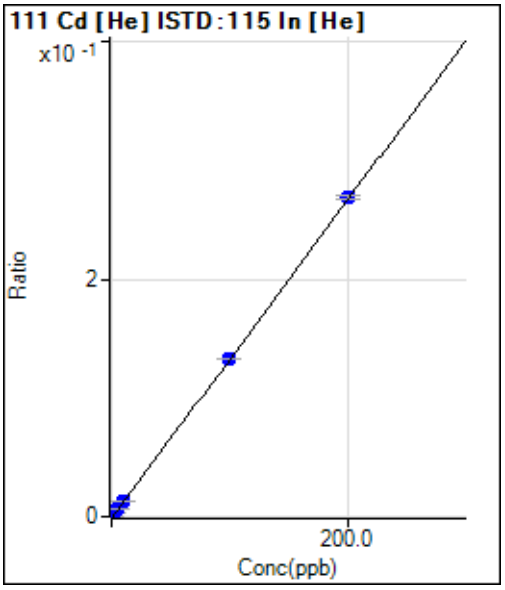
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	23.09	0.0000	P	51.5	
2	☐	2.000	1.872	3308.55	0.0019	P	8.5	-6.4
3	☐	5.000	4.957	8658.92	0.0050	P	7.9	-0.9
4	☐	10.000	9.657	16771.61	0.0097	P	0.5	-3.4
5	☐	100.000	97.628	165289.26	0.0983	P	3.0	-2.4
6	☐	200.000	201.205	331373.14	0.2025	P	3.1	0.6
7	☐	1.000						

y = 0.0010 * x + 1.3750E-005
R = 0.9999
DL = 0.02113 ppb
BEC = 0.01366 ppb

Weight: <None>
Min Conc: <None>

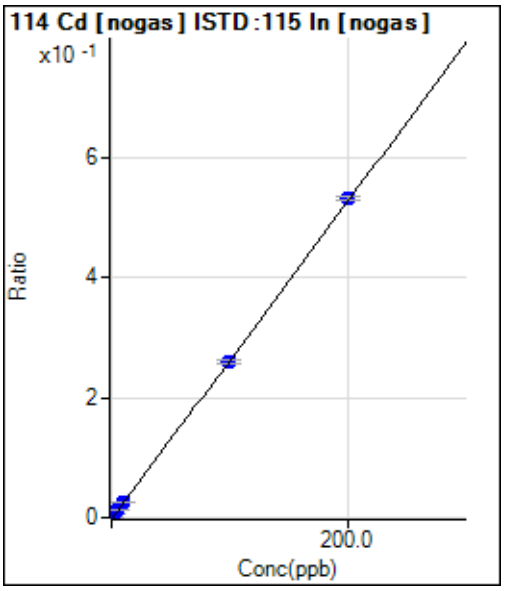


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-4.06	0.0000	P	-158.	
2	☐	2.000	2.017	1894.20	0.0027	P	10.6	0.9
3	☐	5.000	4.678	4355.73	0.0063	P	1.2	-6.4
4	☐	10.000	9.538	8832.37	0.0128	P	3.4	-4.6
5	☐	100.000	98.870	87007.68	0.1326	P	0.8	-1.1
6	☐	200.000	200.596	174395.61	0.2691	P	1.0	0.3
7	☐	1.000						

y = 0.0013 * x - 6.0090E-006
R = 1.0000
DL = 0.02127 ppb
BEC = -0.004479 ppb

Weight: <None>
Min Conc: <None>

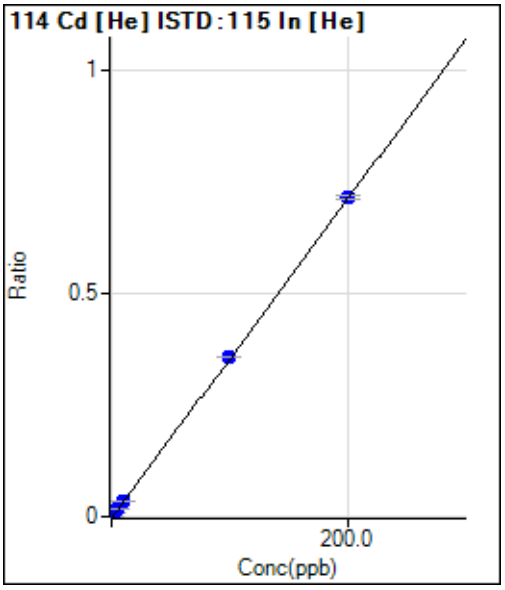
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	90.00	0.0001	P	22.0	
2	☐	2.000	1.946	9083.00	0.0052	P	4.4	-2.7
3	☐	5.000	4.829	22240.66	0.0128	P	1.7	-3.4
4	☐	10.000	9.650	44137.46	0.0256	P	2.1	-3.5
5	☐	100.000	98.153	437445.42	0.2600	P	2.4	-1.8
6	☐	200.000	200.946	871081.78	0.5323	P	1.2	0.5
7	☐	1.000						

y = 0.0026 * x + 5.3683E-005
R = 0.9999
DL = 0.01336 ppb
BEC = 0.02027 ppb

Weight: <None>
Min Conc: <None>

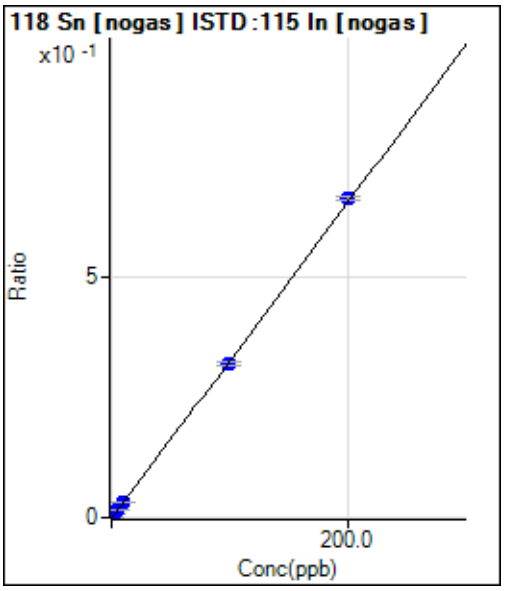


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	43.33	0.0001	P	69.6	
2	☐	2.000	1.973	4990.97	0.0071	P	1.0	-1.3
3	☐	5.000	4.732	11791.65	0.0170	P	1.9	-5.4
4	☐	10.000	9.531	23559.43	0.0341	P	1.8	-4.7
5	☐	100.000	100.060	234585.54	0.3576	P	0.8	0.1
6	☐	200.000	200.001	463159.81	0.7147	P	1.0	0.0
7	☐	1.000						

y = 0.0036 * x + 6.3156E-005
R = 1.0000
DL = 0.03691 ppb
BEC = 0.01768 ppb

Weight: <None>
Min Conc: <None>

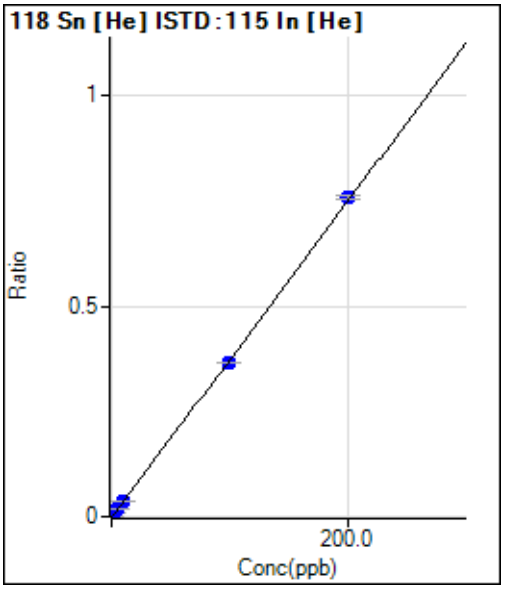
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2213.55	0.0013	P	7.4	
2	☐	2.000	1.740	12258.77	0.0070	P	3.5	-13.0
3	☐	5.000	4.640	28655.42	0.0165	P	2.2	-7.2
4	☐	10.000	9.444	55687.71	0.0323	P	1.5	-5.6
5	☐	100.000	96.758	536381.97	0.3188	P	2.4	-3.2
6	☐	200.000	201.660	1085105.58	0.6631	P	1.5	0.8
7	☐	1.000						

y = 0.0033 * x + 0.0013
R = 0.9998
DL = 0.08991 ppb
BEC = 0.4025 ppb

Weight: <None>
Min Conc: <None>

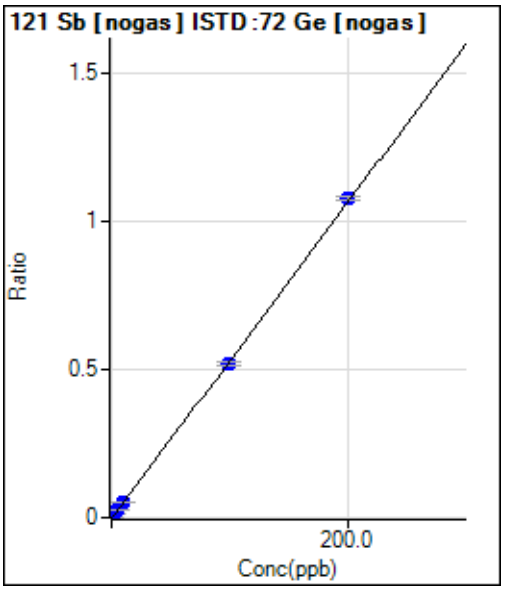


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1073.40	0.0016	P	9.8	
2	☐	2.000	1.663	5491.16	0.0078	P	6.5	-16.9
3	☐	5.000	4.415	12625.68	0.0182	P	3.8	-11.7
4	☐	10.000	9.305	25239.12	0.0366	P	2.1	-6.9
5	☐	100.000	97.026	240337.00	0.3664	P	0.7	-3.0
6	☐	200.000	201.540	492083.14	0.7593	P	0.8	0.8
7	☐	1.000						

y = 0.0038 * x + 0.0016
R = 0.9999
DL = 0.1226 ppb
BEC = 0.4186 ppb

Weight: <None>
Min Conc: <None>

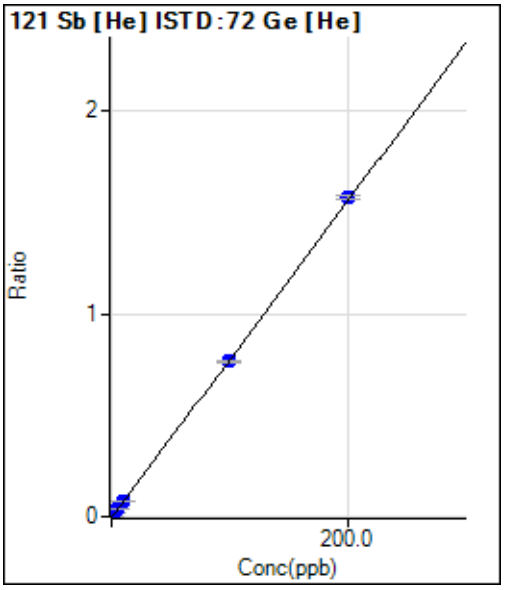
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3037.04	0.0022	P	3.2	
2	☐	2.000	1.767	17157.19	0.0116	P	1.6	-11.6
3	☐	5.000	4.594	38929.43	0.0267	P	2.5	-8.1
4	☐	10.000	9.611	77306.64	0.0535	P	1.8	-3.9
5	☐	100.000	96.936	737654.52	0.5201	P	2.6	-3.1
6	☐	200.000	201.564	1506100.97	1.0791	P	1.6	0.8
7	☐	1.000						

y = 0.0053 * x + 0.0022
R = 0.9998
DL = 0.03909 ppb
BEC = 0.4026 ppb

Weight: <None>
Min Conc: <None>

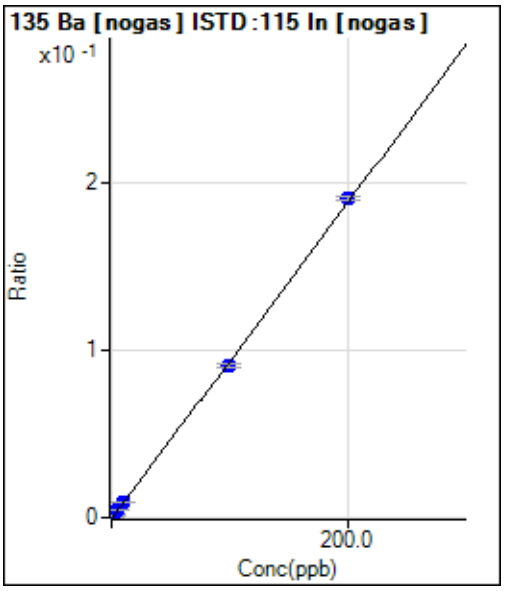


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1160.07	0.0027	P	7.7	
2	☐	2.000	1.892	7715.54	0.0175	P	2.9	-5.4
3	☐	5.000	4.590	16916.87	0.0386	P	1.7	-8.2
4	☐	10.000	9.671	34113.98	0.0783	P	1.0	-3.3
5	☐	100.000	97.464	325851.18	0.7649	P	1.0	-2.5
6	☐	200.000	201.296	659151.85	1.5768	P	1.2	0.6
7	☐	1.000						

y = 0.0078 * x + 0.0027
R = 0.9999
DL = 0.07909 ppb
BEC = 0.3438 ppb

Weight: <None>
Min Conc: <None>

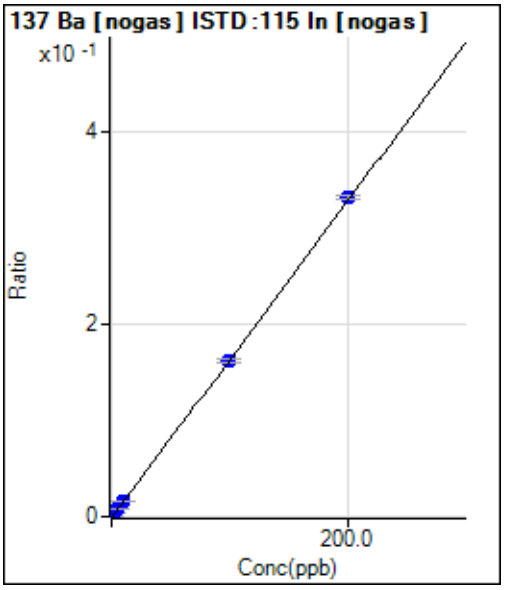
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	180.00	0.0001	P	36.4	
2	☐	2.000	1.731	3047.04	0.0017	P	3.6	-13.4
3	☐	5.000	4.851	8142.45	0.0047	P	2.1	-3.0
4	☐	10.000	9.573	15812.34	0.0092	P	1.8	-4.3
5	☐	100.000	96.501	153958.99	0.0915	P	2.6	-3.5
6	☐	200.000	201.777	312966.52	0.1912	P	1.6	0.9
7	☐	1.000						

y = 9.4727E-004 * x + 1.0743E-004
R = 0.9998
DL = 0.124 ppb
BEC = 0.1134 ppb

Weight: <None>
Min Conc: <None>

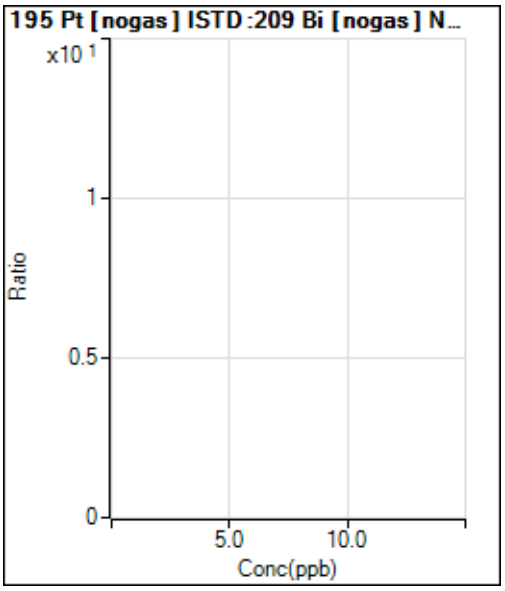


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	330.01	0.0002	P	23.2	
2	☐	2.000	1.878	5747.91	0.0033	P	9.7	-6.1
3	☐	5.000	4.734	13877.03	0.0080	P	8.2	-5.3
4	☐	10.000	9.751	28101.29	0.0163	P	0.6	-2.5
5	☐	100.000	97.633	271627.90	0.1615	P	2.4	-2.4
6	☐	200.000	201.204	544185.04	0.3325	P	1.4	0.6
7	☐	1.000						

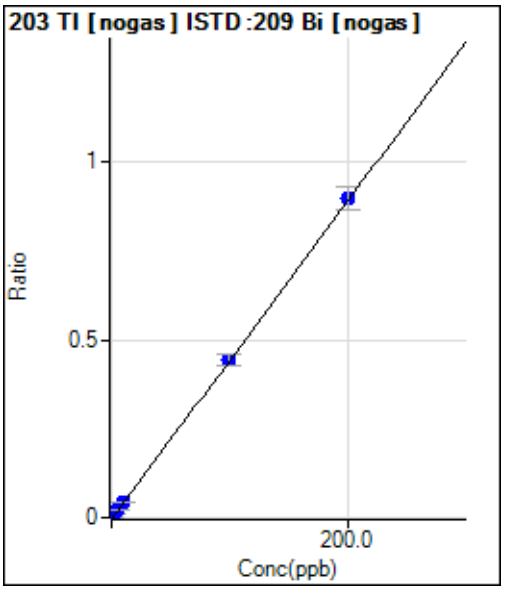
y = 0.0017 * x + 1.9677E-004
R = 0.9999
DL = 0.08289 ppb
BEC = 0.1191 ppb

Weight: <None>
Min Conc: <None>

Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000						
2	☐	2.000						
3	☐	5.000						
4	☐	10.000						
5	☐	100.000						
6	☐	200.000						
7	☐	1.000						

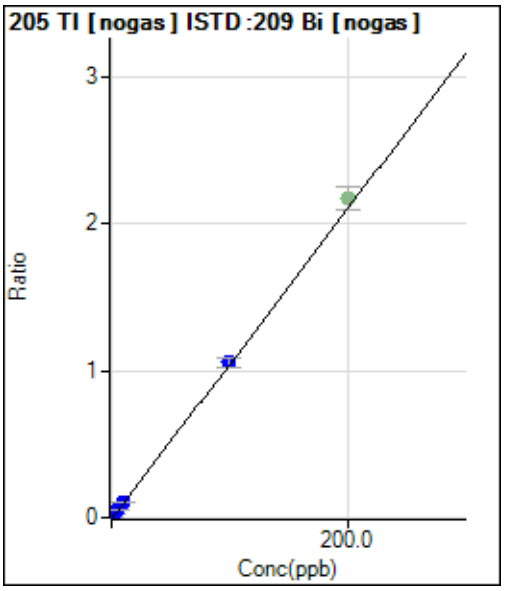


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	220.01	0.0001	P	13.2	
2	☐	2.000	1.932	14981.71	0.0088	P	8.4	-3.4
3	☐	5.000	4.779	36405.43	0.0215	P	8.1	-4.4
4	☐	10.000	9.551	73111.75	0.0429	P	7.4	-4.5
5	☐	100.000	98.689	736785.17	0.4420	P	7.6	-1.3
6	☐	200.000	200.684	1465250.08	0.8988	P	6.9	0.3
7	☐	1.000						

y = 0.0045 * x + 1.3504E-004
R = 1.0000
DL = 0.01194 ppb
BEC = 0.03016 ppb

Weight: <None>
Min Conc: <None>

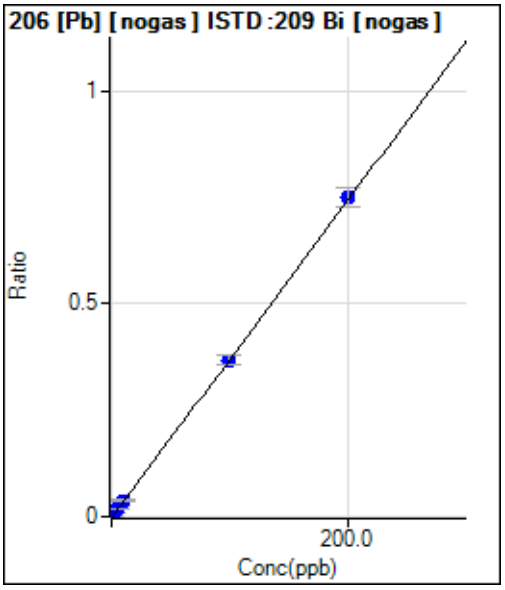
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	426.68	0.0003	P	7.1	
2	☐	2.000	1.965	35840.81	0.0210	P	9.9	-1.7
3	☐	5.000	4.889	87848.08	0.0519	P	7.7	-2.2
4	☐	10.000	9.783	176634.70	0.1037	P	7.7	-2.2
5	☐	100.000	100.028	1763659.97	1.0577	P	6.4	0.0
6	☑	200.000		3544319.32	2.1742	A	7.2	
7	☐	1.000						

y = 0.0106 * x + 2.6260E-004
R = 1.0000
DL = 0.005277 ppb
BEC = 0.02484 ppb

Weight: <None>
Min Conc: <None>

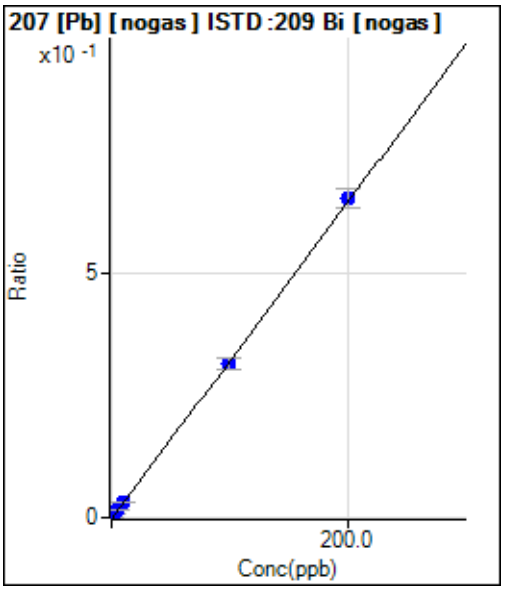


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	816.70	0.0005	P	13.5	
2	☐	2.000	2.003	13593.67	0.0080	P	9.3	0.1
3	☐	5.000	4.949	32094.72	0.0190	P	7.2	-1.0
4	☐	10.000	9.715	62573.51	0.0368	P	9.4	-2.9
5	☐	100.000	98.264	612192.10	0.3672	P	6.8	-1.7
6	☐	200.000	200.883	1223063.11	0.7501	P	6.5	0.4
7	☐	1.000						

y = 0.0037 * x + 5.0401E-004
R = 0.9999
DL = 0.05468 ppb
BEC = 0.1351 ppb

Weight: <None>
Min Conc: <None>

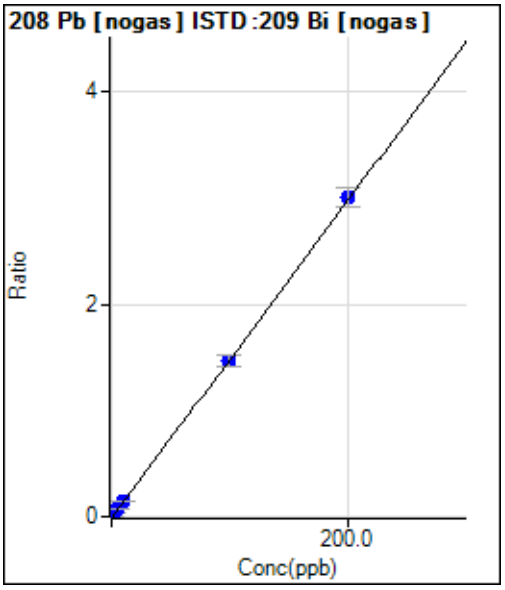
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	560.02	0.0003	P	3.6	
2	☐	2.000	2.041	11828.62	0.0069	P	10.6	2.1
3	☐	5.000	4.845	27107.21	0.0160	P	5.2	-3.1
4	☐	10.000	9.800	54616.08	0.0320	P	6.3	-2.0
5	☐	100.000	97.055	523932.67	0.3142	P	6.4	-2.9
6	☐	200.000	201.486	1062939.88	0.6519	P	6.5	0.7
7	☐	1.000						

y = 0.0032 * x + 3.4487E-004
R = 0.9998
DL = 0.01139 ppb
BEC = 0.1066 ppb

Weight: <None>
Min Conc: <None>

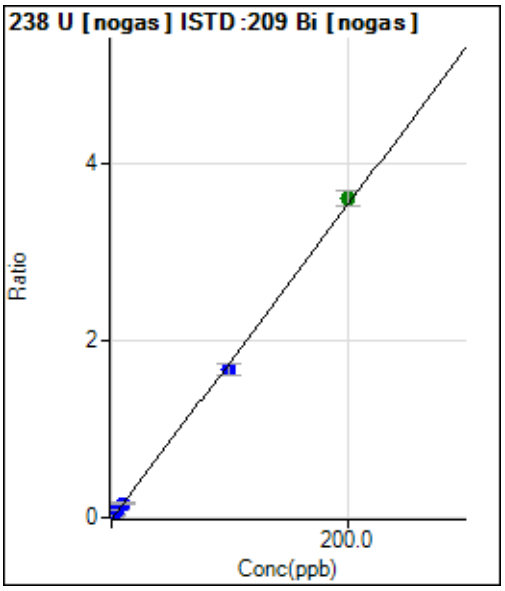


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2930.17	0.0018	P	6.9	
2	☐	2.000	1.990	53735.40	0.0315	P	8.6	-0.5
3	☐	5.000	4.841	125368.80	0.0741	P	7.0	-3.2
4	☐	10.000	9.813	252849.75	0.1484	P	7.2	-1.9
5	☐	100.000	97.802	2438513.50	1.4627	P	6.9	-2.2
6	☐	200.000	201.112	4901202.48	3.0058	P	6.3	0.6
7	☐	1.000						

y = 0.0149 * x + 0.0018
R = 0.9999
DL = 0.02501 ppb
BEC = 0.1208 ppb

Weight: <None>
Min Conc: <None>

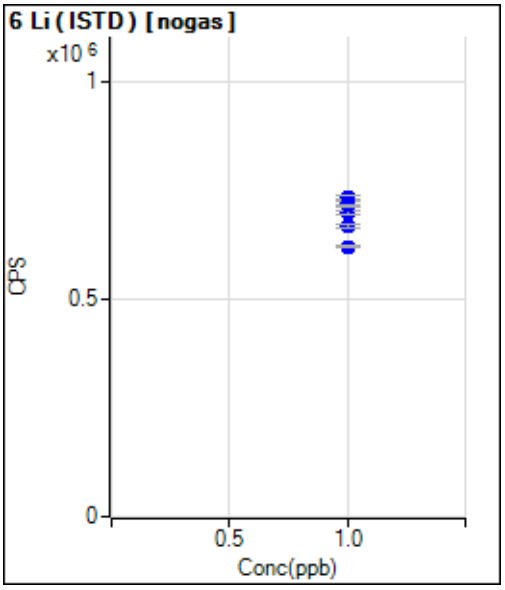
Calibration for 017_ICV.d



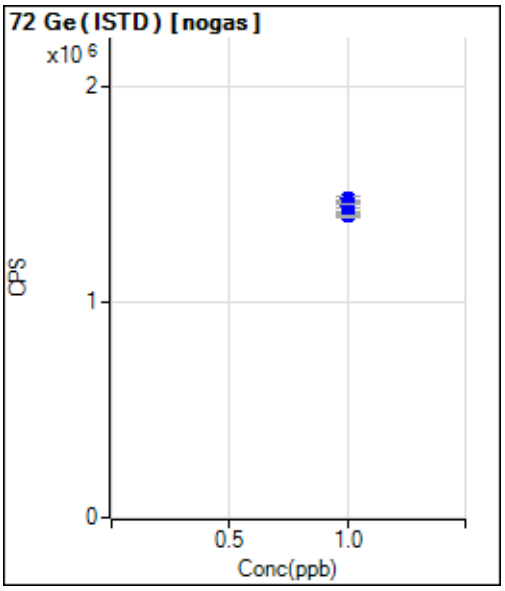
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	616.69	0.0004	P	17.9	
2	☐	2.000	1.795	55040.33	0.0323	P	7.6	-10.3
3	☐	5.000	4.482	135400.09	0.0800	P	7.3	-10.4
4	☐	10.000	8.994	273018.95	0.1602	P	7.5	-10.1
5	☐	100.000	93.943	2783680.06	1.6701	P	7.7	-6.1
6	☐	200.000	203.094	5888543.25	3.6102	A	5.3	1.5
7	☐	1.000						

y = 0.0178 * x + 3.7892E-004
R = 0.9994
DL = 0.01144 ppb
BEC = 0.02132 ppb

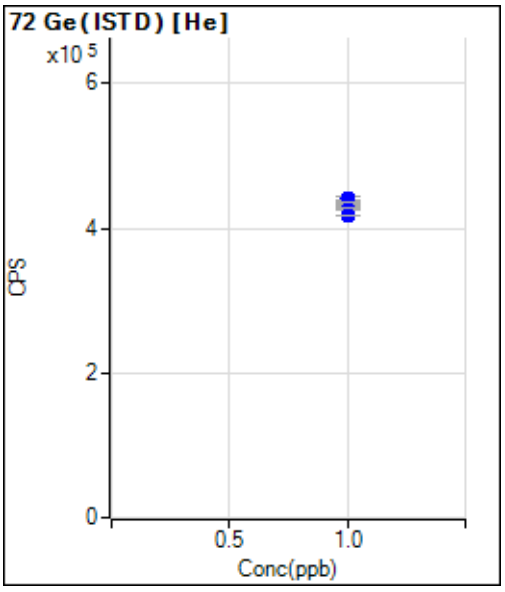
Weight: <None>
Min Conc: <None>



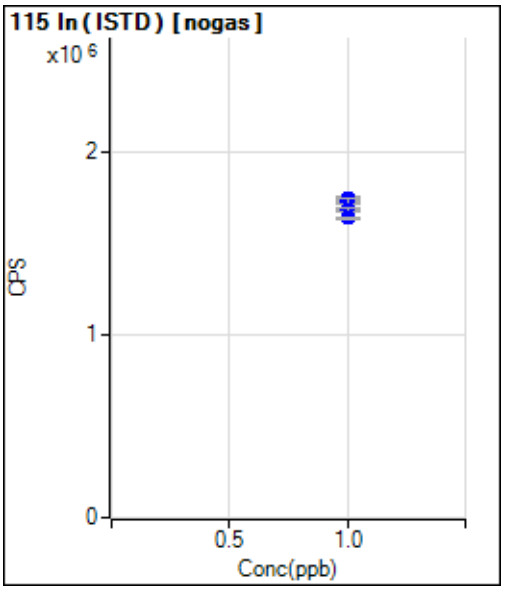
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		699034.34		P	1.2	
2	☐	1.000		733460.50		P	0.8	
3	☐	1.000		720402.58		P	0.9	
4	☐	1.000		713912.38		P	0.8	
5	☐	1.000		666404.31		P	0.9	
6	☐	1.000		619983.59		P	0.5	
7	☐	1.000						



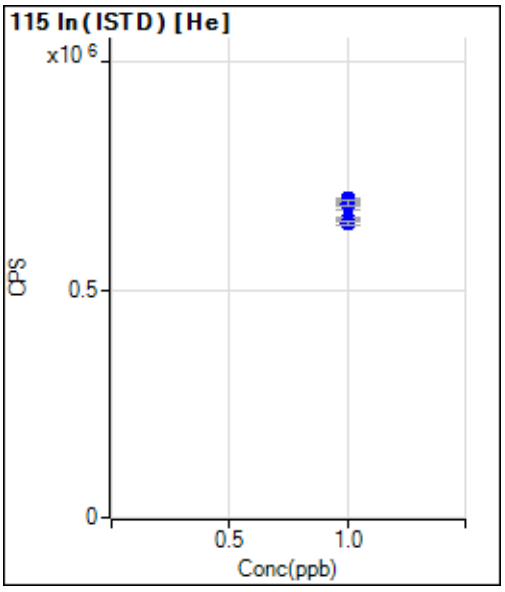
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1411661.18		P	0.9	
2	☐	1.000		1479797.90		P	0.8	
3	☐	1.000		1458344.20		P	0.7	
4	☐	1.000		1445082.95		P	1.0	
5	☐	1.000		1418305.50		P	0.3	
6	☐	1.000		1395632.64		P	0.4	
7	☐	1.000						



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		431445.49		P	0.4	
2	☐	1.000		441263.66		P	0.8	
3	☐	1.000		438525.16		P	0.6	
4	☐	1.000		435571.81		P	0.7	
5	☐	1.000		426042.18		P	0.4	
6	☐	1.000		418029.37		P	0.1	
7	☐	1.000						

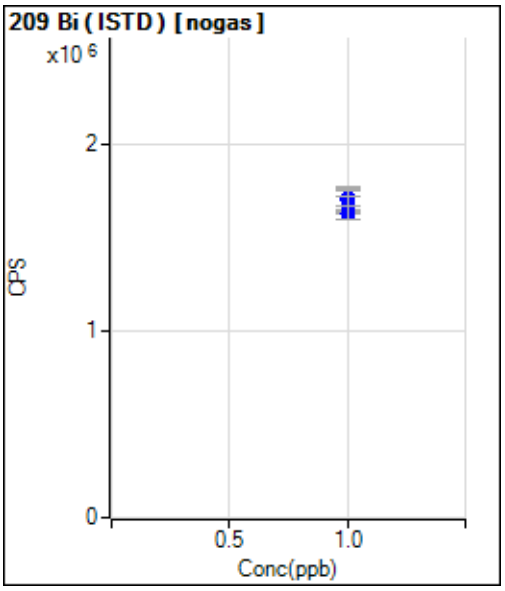


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1676050.45		P	0.6	
2	☐	1.000		1744130.85		P	1.4	
3	☐	1.000		1731832.34		P	0.8	
4	☐	1.000		1723589.46		P	1.8	
5	☐	1.000		1682496.93		P	1.0	
6	☐	1.000		1636372.93		P	0.6	
7	☐	1.000						



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		682631.42		P	1.7	
2	☐	1.000		701617.46		P	0.4	
3	☐	1.000		694798.20		P	0.3	
4	☐	1.000		690473.65		P	1.5	
5	☐	1.000		656022.74		P	0.4	
6	☐	1.000		648119.65		P	1.2	
7	☐	1.000						

Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1624905.08		P	3.2	
2	☐	1.000		1711278.88		P	7.0	
3	☐	1.000		1697002.68		P	6.8	
4	☐	1.000		1709605.71		P	6.8	
5	☐	1.000		1671467.00		P	5.6	
6	☐	1.000		1633684.09		P	4.5	
7	☐	1.000						

Calibration Blank Report

Sample Table

Sample Name	CAL BLK
Data File Name	010CALB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T11:45:15-05:00
Sample Type	CalBlk
Level	1
Dilution	1
Comment	

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	nogas	62	27.37
B	11	1	nogas	17048	0.01
Al	27	1	nogas	41239	0.00
P	31	1	nogas	69882	0.00
Ti	47	1	nogas	180	5.35
Ni	60	1	nogas	533	2.00
Cu	63	1	nogas	6968	0.14
Zn	66	1	nogas	2580	0.17
Se	77	1	nogas	8696	0.03
Se	82	1	nogas	317	3.78
Sr	88	1	nogas	1363	0.41
Mo	95	1	nogas	363	6.44
Ag	107	1	nogas	150	13.33
Cd	111	1	nogas	23	224.49
Sn	118	1	nogas	2214	0.32
Sb	121	1	nogas	3037	0.12
Ba	137	1	nogas	330	7.17
Tl	205	1	nogas	427	1.77
Pb	208	1	nogas	2930	0.19
Li	7	1	nogas	53653	0.00
Na	23	2	He	52858	0.02
Mg	24	2	He	473	1.69
Al	27	2	He	1583	0.76
K	39	2	He	88103	0.00
Ca	43	2	He	50	138.56
Ca	44	2	He	800	1.65
V	51	2	He	418	43.02
Cr	52	2	He	7455	0.04
Mn	55	2	He	1260	0.91
Fe	56	2	He	13653	0.03
Co	59	2	He	173	5.08
Ni	60	2	He	160	17.90
Cu	63	2	He	607	2.47
Zn	66	2	He	1087	0.34
As	75	2	He	257	7.08
Sb	121	2	He	1160	0.67
Se	78	2	He	51	19.61

Calibration Blank Report

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Ge	72	1	nogas	1411661	0.86
In	115	1	nogas	1676050	0.59

Calibration Blank Report

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Li	6	1	nogas	699034	1.22
Bi	209	1	nogas	1624905	3.18
Ge	72	2	He	431445	0.40
In	115	2	He	682631	1.66

Calibration Standard Report

Sample Table

Sample Name	2/10/200
Data File Name	011CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T11:47:23-05:00
Sample Type	CalStd
Level	2
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	nogas	6658	0.07
B	11	1	nogas	32576	0.00
Al	27	1	nogas	42135	0.01
P	31	1	nogas	45468	0.00
Ti	47	1	nogas	2147	0.21
Ni	60	1	nogas	6448	0.11
Cu	63	1	nogas	20514	0.01
Zn	66	1	nogas	6455	0.16
Se	77	1	nogas	10297	0.02
Se	82	1	nogas	473	2.87
Sr	88	1	nogas	35259	0.00
Mo	95	1	nogas	7315	0.05
Ag	107	1	nogas	18262	0.01
Cd	111	1	nogas	3309	0.23
Sn	118	1	nogas	12259	0.02
Sb	121	1	nogas	17157	0.01
Ba	137	1	nogas	5748	0.15
Tl	205	1	nogas	35841	0.01
Pb	208	1	nogas	53735	0.00
Na	23	2	He	288475	0.00
Mg	24	2	He	129103	0.00
Al	27	2	He	1677	0.18
K	39	2	He	222430	0.00
Ca	43	2	He	430	1.43
Ca	44	2	He	7082	0.10
V	51	2	He	7383	0.29
Cr	52	2	He	15899	0.02
Mn	55	2	He	7916	0.08
Fe	56	2	He	802272	0.00
Co	59	2	He	11448	0.02
Ni	60	2	He	2974	0.24
Cu	63	2	He	7602	0.04
Zn	66	2	He	2477	0.40
As	75	2	He	1339	0.12
Sb	121	2	He	7716	0.03
Se	78	2	He	193	4.67

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag

Calibration Standard Report

Ge	72	1	nogas	1479798	0.81	1411661	104.83	70	120	
In	115	1	nogas	1744131	1.44	1676050	104.06	70	120	
Li	6	1	nogas	733461	0.75	699034	104.92	70	120	
Bi	209	1	nogas	1711279	6.97	1624905	105.32	70	120	
Ge	72	2	He	441264	0.82	431445	102.28	70	120	
In	115	2	He	701617	0.44	682631	102.78	70	120	

Calibration Standard Report

Sample Table

Sample Name	5/25/500
Data File Name	012CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T11:49:32-05:00
Sample Type	CalStd
Level	3
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	nogas	16214	0.02
B	11	1	nogas	60593	0.00
Al	27	1	nogas	71687	0.00
P	31	1	nogas	46534	0.00
Ti	47	1	nogas	4741	0.02
Ni	60	1	nogas	14581	0.01
Cu	63	1	nogas	39298	0.00
Zn	66	1	nogas	11852	0.04
Se	77	1	nogas	10050	0.01
Se	82	1	nogas	817	0.17
Sr	88	1	nogas	84994	0.00
Mo	95	1	nogas	17307	0.01
Ag	107	1	nogas	44702	0.00
Cd	111	1	nogas	8659	0.08
Sn	118	1	nogas	28655	0.01
Sb	121	1	nogas	38929	0.01
Ba	137	1	nogas	13877	0.05
Tl	205	1	nogas	87848	0.00
Pb	208	1	nogas	125369	0.00
Na	23	2	He	595523	0.00
Mg	24	2	He	314799	0.00
Al	27	2	He	2890	0.24
K	39	2	He	407228	0.00
Ca	43	2	He	943	0.58
Ca	44	2	He	15632	0.03
V	51	2	He	18888	0.05
Cr	52	2	He	28554	0.01
Mn	55	2	He	18014	0.01
Fe	56	2	He	1967362	0.00
Co	59	2	He	28057	0.00
Ni	60	2	He	7209	0.01
Cu	63	2	He	18021	0.00
Zn	66	2	He	4591	0.08
As	75	2	He	2901	0.09
Sb	121	2	He	16917	0.01
Se	78	2	He	345	2.35

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag

Calibration Standard Report

Ge	72	1	nogas	1458344	0.65	1411661	103.31	70	120	
In	115	1	nogas	1731832	0.83	1676050	103.33	70	120	
Li	6	1	nogas	720403	0.90	699034	103.06	70	120	
Bi	209	1	nogas	1697003	6.84	1624905	104.44	70	120	
Ge	72	2	He	438525	0.62	431445	101.64	70	120	
In	115	2	He	694798	0.31	682631	101.78	70	120	

Calibration Standard Report

Sample Table

Sample Name	10/50/1000
Data File Name	013CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T11:51:38-05:00
Sample Type	CalStd
Level	4
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	nogas	32504	0.00
B	11	1	nogas	109260	0.00
Al	27	1	nogas	121042	0.00
P	31	1	nogas	49066	0.00
Ti	47	1	nogas	9753	0.03
Ni	60	1	nogas	28344	0.01
Cu	63	1	nogas	73918	0.00
Zn	66	1	nogas	20968	0.00
Se	77	1	nogas	10534	0.01
Se	82	1	nogas	1457	0.56
Sr	88	1	nogas	168531	0.00
Mo	95	1	nogas	36185	0.01
Ag	107	1	nogas	89410	0.00
Cd	111	1	nogas	16772	0.01
Sn	118	1	nogas	55688	0.00
Sb	121	1	nogas	77307	0.00
Ba	137	1	nogas	28101	0.01
Tl	205	1	nogas	176635	0.00
Pb	208	1	nogas	252850	0.00
Na	23	2	He	1160470	0.00
Mg	24	2	He	628496	0.00
Al	27	2	He	5158	0.01
K	39	2	He	733393	0.00
Ca	43	2	He	1850	0.56
Ca	44	2	He	31767	0.00
V	51	2	He	37693	0.01
Cr	52	2	He	49598	0.00
Mn	55	2	He	34309	0.00
Fe	56	2	He	4115523	0.00
Co	59	2	He	54950	0.01
Ni	60	2	He	14284	0.03
Cu	63	2	He	35379	0.00
Zn	66	2	He	8119	0.02
As	75	2	He	5707	0.03
Sb	121	2	He	34114	0.00
Se	78	2	He	633	1.83

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag

Calibration Standard Report

Ge	72	1	nogas	1445083	1.02	1411661	102.37	70	120	
In	115	1	nogas	1723589	1.79	1676050	102.84	70	120	
Li	6	1	nogas	713912	0.80	699034	102.13	70	120	
Bi	209	1	nogas	1709606	6.76	1624905	105.21	70	120	
Ge	72	2	He	435572	0.73	431445	100.96	70	120	
In	115	2	He	690474	1.46	682631	101.15	70	120	

Calibration Standard Report

Sample Table

Sample Name	100/500/10K
Data File Name	014CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T11:53:44-05:00
Sample Type	CalStd
Level	5
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	nogas	316705	0.00
B	11	1	nogas	961000	0.00
Al	27	1	nogas	955197	0.00
P	31	1	nogas	73600	0.00
Ti	47	1	nogas	93235	0.00
Ni	60	1	nogas	267482	0.00
Cu	63	1	nogas	639148	0.00
Zn	66	1	nogas	184136	0.00
Se	77	1	nogas	17724	0.01
Se	82	1	nogas	11735	0.02
Sr	88	1	nogas	1655391	0.00
Mo	95	1	nogas	349190	0.00
Ag	107	1	nogas	864654	0.00
Cd	111	1	nogas	165289	0.00
Sn	118	1	nogas	536382	0.00
Sb	121	1	nogas	737655	0.00
Ba	137	1	nogas	271628	0.00
Tl	205	1	nogas	1763660	0.00
Pb	208	1	nogas	2438514	0.00
Na	23	2	He	10890658	0.00
Mg	24	2	He	6186647	0.00
Al	27	2	He	37312	0.01
K	39	2	He	6472898	0.00
Ca	43	2	He	17677	0.00
Ca	44	2	He	298587	0.00
V	51	2	He	367617	0.00
Cr	52	2	He	419087	0.00
Mn	55	2	He	324376	0.00
Fe	56	2	He	38429955	0.00
Co	59	2	He	534750	0.00
Ni	60	2	He	131665	0.00
Cu	63	2	He	332683	0.00
Zn	66	2	He	72307	0.00
As	75	2	He	53695	0.00
Sb	121	2	He	325851	0.00
Se	78	2	He	5551	0.02

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag

Calibration Standard Report

Ge	72	1	nogas	1418306	0.31	1411661	100.47	70	120	
In	115	1	nogas	1682497	1.01	1676050	100.38	70	120	
Li	6	1	nogas	666404	0.93	699034	95.33	70	120	
Bi	209	1	nogas	1671467	5.57	1624905	102.87	70	120	
Ge	72	2	He	426042	0.44	431445	98.75	70	120	
In	115	2	He	656023	0.38	682631	96.10	70	120	

Calibration Standard Report

Sample Table

Sample Name	200/1000/20K
Data File Name	015CALS.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T11:55:49-05:00
Sample Type	CalStd
Level	6
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD
Be	9	1	nogas	632618	0.00
B	11	1	nogas	1956750	0.00
Al	27	1	nogas	1897297	0.00
P	31	1	nogas	103834	0.00
Ti	47	1	nogas	185986	0.00
Ni	60	1	nogas	530632	0.00
Cu	63	1	nogas	1265383	0.00
Zn	66	1	nogas	360494	0.00
Se	77	1	nogas	25435	0.00
Se	82	1	nogas	22124	0.01
Sr	88	1	nogas	3247327	0.00
Mo	95	1	nogas	713267	0.00
Ag	107	1	nogas	1726840	0.00
Cd	111	1	nogas	331373	0.00
Sn	118	1	nogas	1085106	0.00
Sb	121	1	nogas	1506101	0.00
Ba	137	1	nogas	544185	0.00
Tl	205	1	nogas	3544319	0.00
Pb	208	1	nogas	4901202	0.00
Na	23	2	He	21657733	0.00
Mg	24	2	He	12222952	0.00
Al	27	2	He	75227	0.00
K	39	2	He	12800551	0.00
Ca	43	2	He	36046	0.00
Ca	44	2	He	601958	0.00
V	51	2	He	745642	0.00
Cr	52	2	He	837927	0.00
Mn	55	2	He	640564	0.00
Fe	56	2	He	75813591	0.00
Co	59	2	He	1068335	0.00
Ni	60	2	He	262228	0.00
Cu	63	2	He	659033	0.00
Zn	66	2	He	142634	0.00
As	75	2	He	107808	0.00
Sb	121	2	He	659152	0.00
Se	78	2	He	11242	0.02

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag

Calibration Standard Report

Ge	72	1	nogas	1395633	0.44	1411661	98.86	70	120	
In	115	1	nogas	1636373	0.60	1676050	97.63	70	120	
Li	6	1	nogas	619984	0.45	699034	88.69	70	120	
Bi	209	1	nogas	1633684	4.53	1624905	100.54	70	120	
Ge	72	2	He	418029	0.11	431445	96.89	70	120	
In	115	2	He	648120	1.19	682631	94.94	70	120	

Initial Calibration Verification (ICV) Report

Sample Table

Sample Name	ICV
Data File Name	017_ICV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T12:01:20-05:00
Sample Type	ICV
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	1	nogas	102.907	0.930	342520	0.91	100	102.9	90	110	
B	11	1	nogas	476.935	1.970	985074	1.21	500	95.4	90	110	
Al	27	1	nogas	108.007	1.782	1057530	1.12	100	108.0	90	110	
P	31	1	nogas	8258.563	2.076	302170	0.93	500	1651.7	90	110	ICV Main CR1 Failed
Ti	47	1	nogas	108.574	2.145	102799	1.47	100	108.6	90	110	
Ni	60	1	nogas	106.299	2.952	287488	2.27	100	106.3	90	110	
Cu	63	1	nogas	108.190	1.567	700100	1.03	100	108.2	90	110	
Zn	66	1	nogas	105.739	1.265	195627	1.36	100	105.7	90	110	
Se	77	1	nogas	84.028	4.920	16086	2.58	100	84.0	90	110	ICV Main CR1 Failed
Se	82	1	nogas	109.729	1.116	12602	1.24	100	109.7	90	110	
Sr	88	1	nogas	106.805	2.804	1787711	1.09	100	106.8	90	110	
Mo	95	1	nogas	101.258	3.809	369298	2.10	100	101.3	90	110	
Ag	107	1	nogas	102.616	3.517	909858	1.81	100	102.6	90	110	
Cd	111	1	nogas	106.665	3.195	181341	1.49	100	106.7	90	110	
Sn	118	1	nogas	107.220	2.088	596684	0.40	100	107.2	90	110	
Sb	121	1	nogas	107.418	1.605	820384	1.13	100	107.4	90	110	
Ba	137	1	nogas	104.659	3.156	292373	1.64	100	104.7	90	110	
Tl	205	1	nogas	109.194	9.242	1980917	2.50	100	109.2	90	110	
Pb	208	1	nogas	105.674	8.277	2652669	1.58	100	105.7	90	110	
U	238	1	nogas	95.815	8.196	2859595	1.56	100	95.8	90	110	
Li	7	1	nogas	99.829	0.816	1101334	0.46	100	99.8	90	110	
Ba	135	1	nogas	103.919	2.948	166477	1.37	100	103.9	90	110	
Tl	203	1	nogas	108.919	8.108	819033	1.81	100	108.9	90	110	
Na	23	2	He	10354.955	0.181	11453406	1.71	10000	103.5	90	110	
Mg	24	2	He	10393.359	1.534	6484557	1.35	10000	103.9	90	110	
Al	27	2	He	108.618	1.038	42078	1.86	100	108.6	90	110	
K	39	2	He	10210.301	0.902	6703714	1.08	10000	102.1	90	110	
Ca	43	2	He	10152.480	1.426	18582	0.11	10000	101.5	90	110	
Ca	44	2	He	10203.317	1.625	312542	0.44	10000	102.0	90	110	
V	51	2	He	106.173	0.620	402150	0.99	100	106.2	90	110	
Cr	52	2	He	105.430	0.855	452575	0.69	100	105.4	90	110	
Mn	55	2	He	105.804	1.767	346422	1.09	100	105.8	90	110	
Fe	56	2	He	10436.968	1.318	40408347	0.21	10000	104.4	90	110	
Co	59	2	He	106.348	1.365	578696	0.50	100	106.3	90	110	
Ni	60	2	He	105.437	1.684	140969	0.61	100	105.4	90	110	
Cu	63	2	He	107.235	1.707	360756	0.57	100	107.2	90	110	
Zn	66	2	He	104.770	2.261	76686	1.11	100	104.8	90	110	
As	75	2	He	104.781	0.706	57577	2.18	100	104.8	90	110	
Sb	121	2	He	107.761	1.645	361248	0.92	100	107.8	90	110	
Se	78	2	He	107.523	2.909	6157	1.74	100	107.5	90	110	
Ti	47	2	He	103.977	3.639	17237	2.15	100	104.0	90	110	

QC ISTD Table

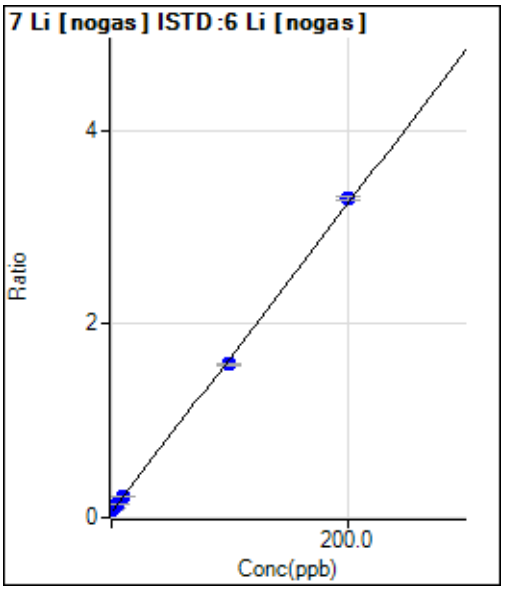
Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1424124	0.70	1411661	100.88	70	120	
In	115	1	nogas	1689869	1.74	1676050	100.82	70	120	
Li	6	1	nogas	661554	0.80	699034	94.64	70	120	
Bi	209	1	nogas	1685186	7.02	1624905	103.71	70	120	
Ge	72	2	He	427382	1.54	431445	99.06	70	120	
In	115	2	He	673532	0.69	682631	98.67	70	120	

Calibration for 017_ICV.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\061924A.b\
Analysis File: 061924A.batch.bin
DA Date-Time: 6/19/2024 11:54:57 PM
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	010CALB.d	CAL BLK	6/19/2024 11:45:15 AM
2	011CALS.d	2/10/200	6/19/2024 11:47:23 AM
3	012CALS.d	5/25/500	6/19/2024 11:49:32 AM
4	013CALS.d	10/50/1000	6/19/2024 11:51:38 AM
5	014CALS.d	100/500/10K	6/19/2024 11:53:44 AM
6	015CALS.d	200/1000/20K	6/19/2024 11:55:49 AM
7			

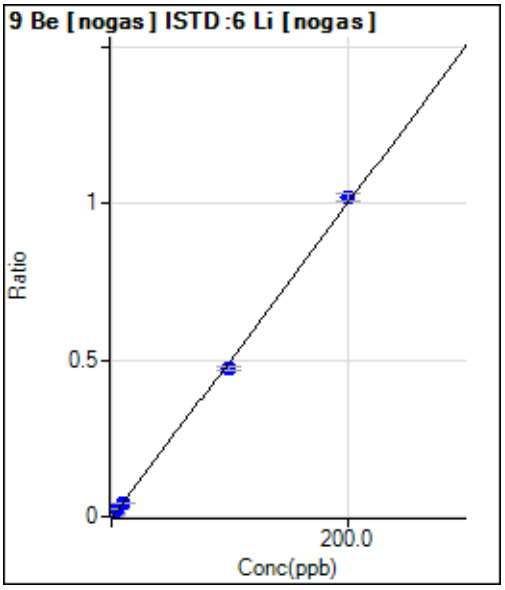
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	53653.39	0.0768	P	0.8	
2	☐	2.000	1.753	76754.10	0.1046	P	0.6	-12.3
3	☐	5.000	4.421	105951.31	0.1471	P	1.1	-11.6
4	☐	10.000	9.111	158259.36	0.2217	P	1.5	-8.9
5	☐	100.000	94.897	1057119.64	1.5864	P	0.8	-5.1
6	☐	200.000	202.613	2045821.74	3.2999	P	1.1	1.3
7	☐	1.000						

y = 0.0159 * x + 0.0768
R = 0.9996
DL = 0.113 ppb
BEC = 4.825 ppb

Weight: <None>
Min Conc: <None>

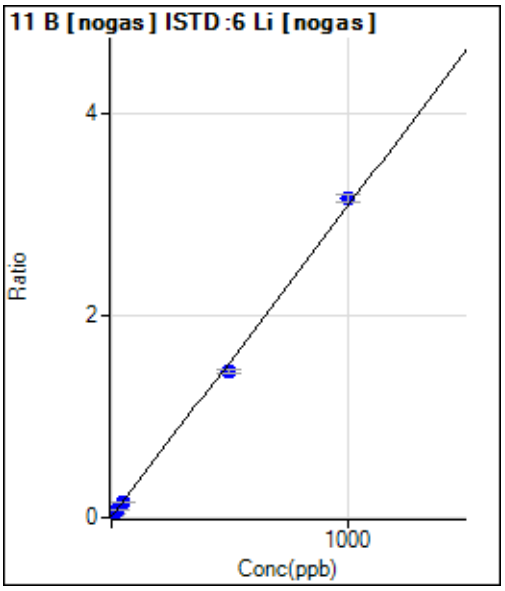


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	61.67	0.0001	P	17.7	
2	☐	2.000	1.787	6658.13	0.0091	P	5.1	-10.6
3	☐	5.000	4.457	16213.50	0.0225	P	3.4	-10.9
4	☐	10.000	9.034	32503.89	0.0455	P	2.1	-9.7
5	☐	100.000	94.468	316704.67	0.4753	P	2.2	-5.5
6	☐	200.000	202.830	632618.48	1.0204	P	1.9	1.4
7	☐	1.000						

y = 0.0050 * x + 8.8305E-005
R = 0.9995
DL = 0.00932 ppb
BEC = 0.01755 ppb

Weight: <None>
Min Conc: <None>

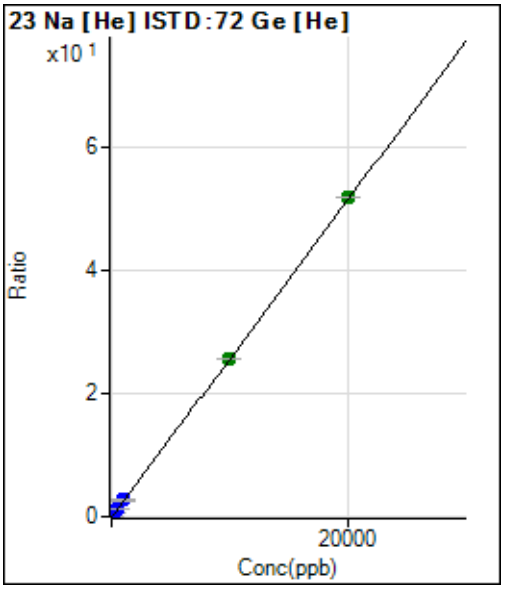
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	17047.78	0.0244	P	1.8	
2	☐	10.000	6.522	32575.68	0.0444	P	2.0	-34.8
3	☐	25.000	19.448	60592.52	0.0841	P	2.2	-22.2
4	☐	50.000	41.893	109260.25	0.1531	P	1.0	-16.2
5	☐	500.000	461.663	961000.09	1.4423	P	2.3	-7.7
6	☐	1000.000	1019.747	1956749.56	3.1563	P	2.3	2.0
7	☐	5.000						

y = 0.0031 * x + 0.0244
R = 0.9990
DL = 0.4352 ppb
BEC = 7.941 ppb

Weight: <None>
Min Conc: <None>

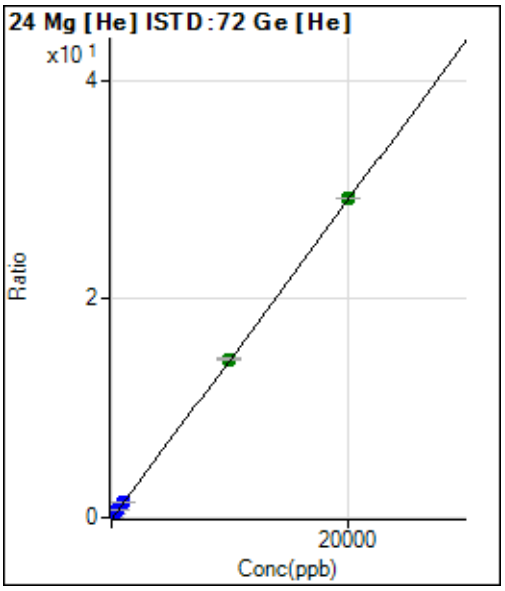


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	52857.75	0.1225	P	12.4	
2	☐	200.000	206.187	288475.11	0.6537	P	8.6	3.1
3	☐	500.000	479.617	595522.78	1.3581	P	1.9	-4.1
4	☐	1000.000	986.682	1160469.57	2.6644	P	1.4	-1.3
5	☐	10000.00	9875.169	10890658.17	25.5625	A	0.7	-1.2
6	☐	20000.00	20063.52	21657733.01	51.8093	A	0.6	0.3
7	☐	100.000						

y = 0.0026 * x + 0.1225
R = 1.0000
DL = 17.68 ppb
BEC = 47.57 ppb

Weight: <None>
Min Conc: <None>

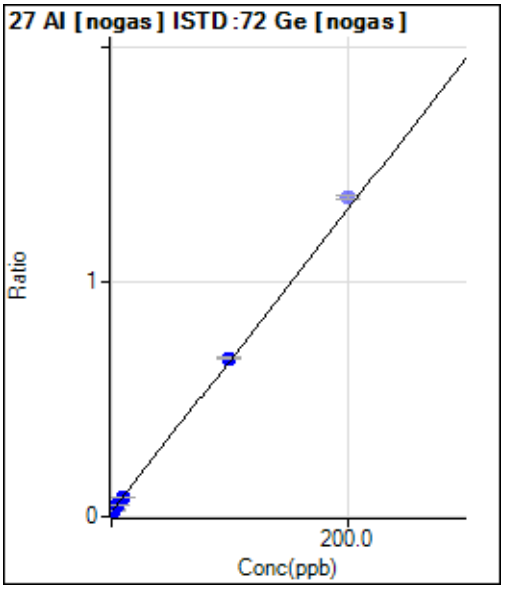
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	473.35	0.0011	P	8.0	
2	☐	200.000	199.661	129102.71	0.2926	P	0.6	-0.2
3	☐	500.000	490.995	314798.61	0.7179	P	1.2	-1.8
4	☐	1000.000	987.633	628495.80	1.4429	P	0.4	-1.2
5	☐	10000.00	9946.032	6186646.57	14.5211	A	0.5	-0.5
6	☐	20000.00	20027.83	12222952.32	29.2394	A	0.3	0.1
7	☐	100.000						

y = 0.0015 * x + 0.0011
R = 1.0000
DL = 0.1799 ppb
BEC = 0.7515 ppb

Weight: <None>
Min Conc: <None>

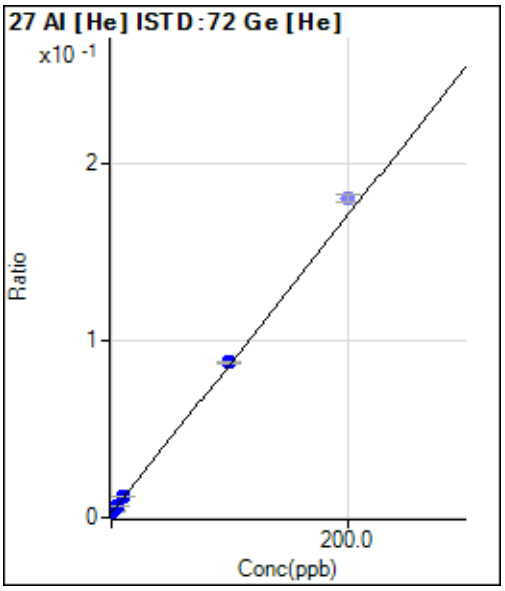


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	41238.97	0.0292	P	1.8	
2	☐	2.000	-0.115	42134.75	0.0285	P	3.0	-105.7
3	☐	5.000	3.104	71686.77	0.0492	P	0.8	-37.9
4	☐	10.000	8.491	121042.24	0.0838	P	1.4	-15.1
5	☐	100.000	100.288	955197.02	0.6735	P	0.8	0.3
6	☑	200.000		1897297.21	1.3595	P	1.5	
7	☐	1.000						

y = 0.0064 * x + 0.0292
R = 0.9998
DL = 0.2517 ppb
BEC = 4.548 ppb

Weight: <None>
Min Conc: <None>

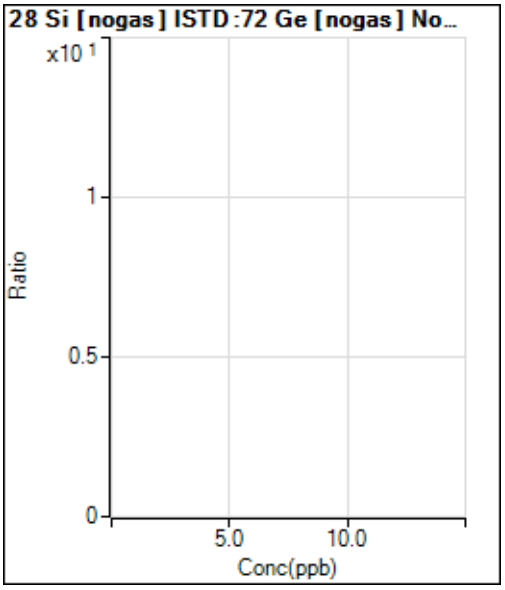
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1583.45	0.0037	P	12.1	
2	☐	2.000	0.155	1676.79	0.0038	P	3.0	-92.3
3	☐	5.000	3.484	2890.33	0.0066	P	6.7	-30.3
4	☐	10.000	9.752	5157.62	0.0118	P	1.0	-2.5
5	☐	100.000	100.138	37312.21	0.0876	P	1.7	0.1
6	☑	200.000		75227.12	0.1800	P	3.0	
7	☐	1.000						

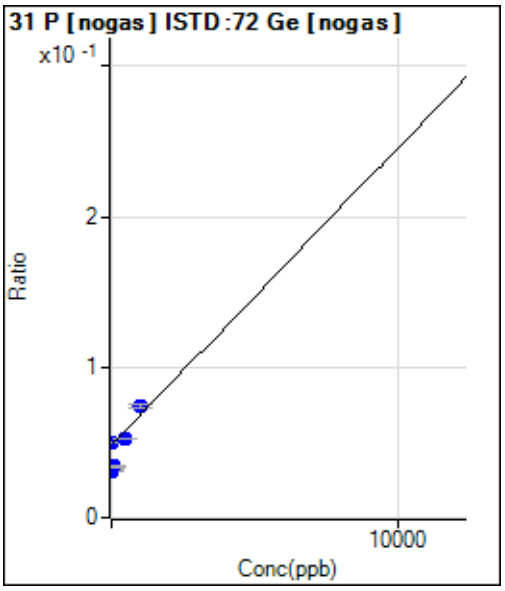
y = 8.3791E-004 * x + 0.0037
R = 0.9998
DL = 1.596 ppb
BEC = 4.38 ppb

Weight: <None>
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000						
2	☐	100.000						
3	☐	250.000						
4	☐	500.000						
5	☐	5000.000						
6	☐	10000.00						
7	☐	50.000						

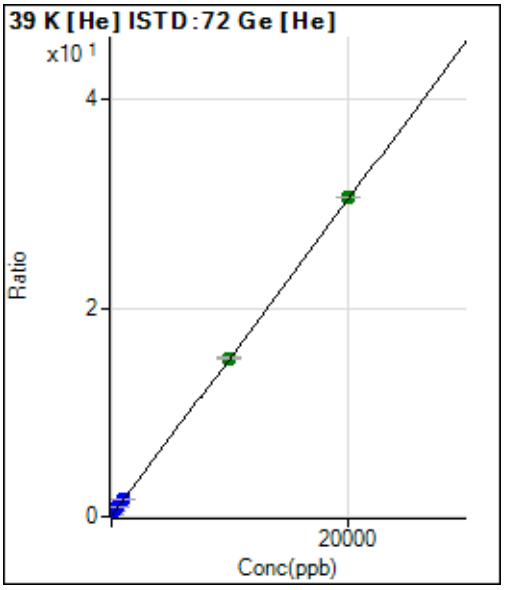
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	69882.06	0.0495	P	0.4	
2	☐	10.000	-953.100	45467.75	0.0307	P	2.0	-9631.
3	☐	25.000	-893.066	46534.09	0.0319	P	1.1	-3672.
4	☐	50.000	-789.256	49065.54	0.0340	P	2.1	-1678.
5	☐	500.000	121.337	73599.69	0.0519	P	0.2	-75.7
6	☐	1000.000	1263.877	103833.78	0.0744	P	2.5	26.4
7	☐	5.000						

y = 1.9700E-005 * x + 0.0495
R = 0.9035
DL = 31.86 ppb
BEC = 2513 ppb

Weight: <None>
Min Conc: <None>

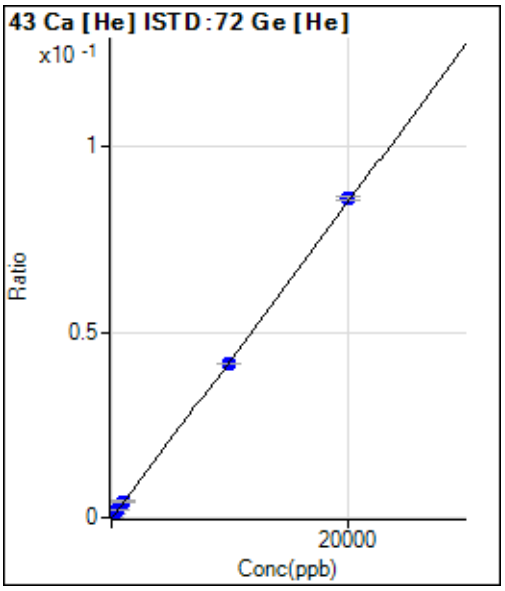


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	88103.28	0.2042	P	1.3	
2	☐	200.000	197.758	222429.60	0.5041	P	0.2	-1.1
3	☐	500.000	477.735	407228.14	0.9286	P	0.3	-4.5
4	☐	1000.000	975.763	733393.22	1.6838	P	1.1	-2.4
5	☐	10000.00	9884.801	6472898.24	15.1930	A	1.4	-1.2
6	☐	20000.00	20059.39	12800551.48	30.6212	A	0.2	0.3
7	☐	100.000						

y = 0.0015 * x + 0.2042
R = 1.0000
DL = 5.223 ppb
BEC = 134.7 ppb

Weight: <None>
Min Conc: <None>

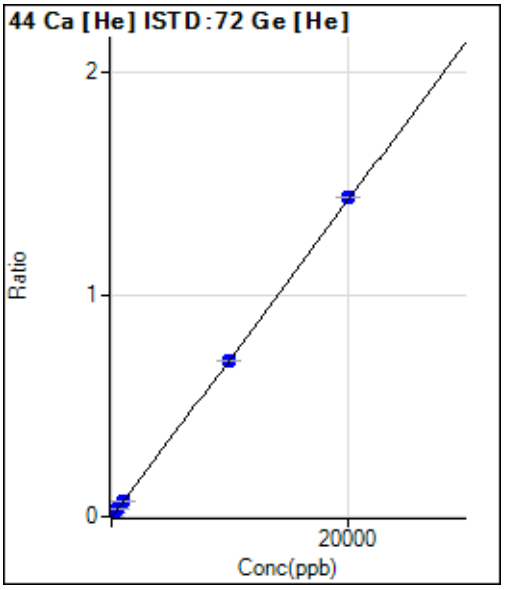
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	50.00	0.0001	P	69.4	
2	☐	200.000	201.024	430.01	0.0010	P	6.5	0.5
3	☐	500.000	476.569	943.38	0.0022	P	5.9	-4.7
4	☐	1000.000	967.715	1850.15	0.0042	P	10.9	-3.2
5	☐	10000.00	9685.974	17677.15	0.0415	P	0.3	-3.1
6	☐	20000.00	20159.20	36046.42	0.0862	P	1.7	0.8
7	☐	100.000						

y = 4.2717E-006 * x + 1.1594E-004
R = 0.9998
DL = 56.49 ppb
BEC = 27.14 ppb

Weight: <None>
Min Conc: <None>

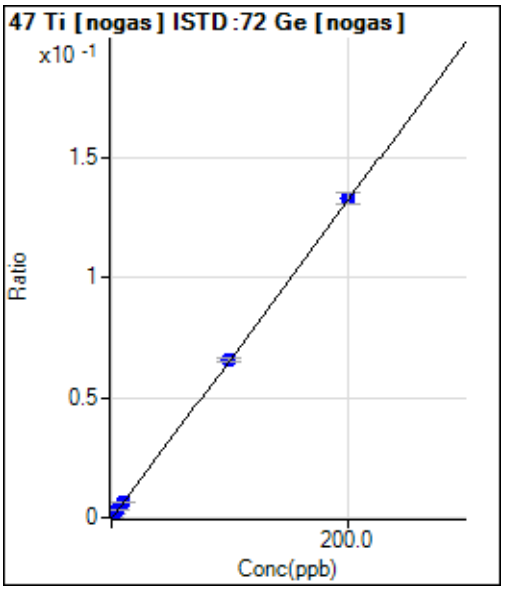


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	800.03	0.0019	P	13.1	
2	☐	200.000	198.456	7081.77	0.0160	P	6.3	-0.8
3	☐	500.000	472.612	15631.64	0.0356	P	5.2	-5.5
4	☐	1000.000	994.102	31766.81	0.0729	P	1.5	-0.6
5	☐	10000.00	9775.617	298586.66	0.7008	P	0.5	-2.2
6	☐	20000.00	20113.18	601957.91	1.4400	P	0.5	0.6
7	☐	100.000						

y = 7.1502E-005 * x + 0.0019
R = 0.9999
DL = 10.2 ppb
BEC = 25.93 ppb

Weight: <None>
Min Conc: <None>

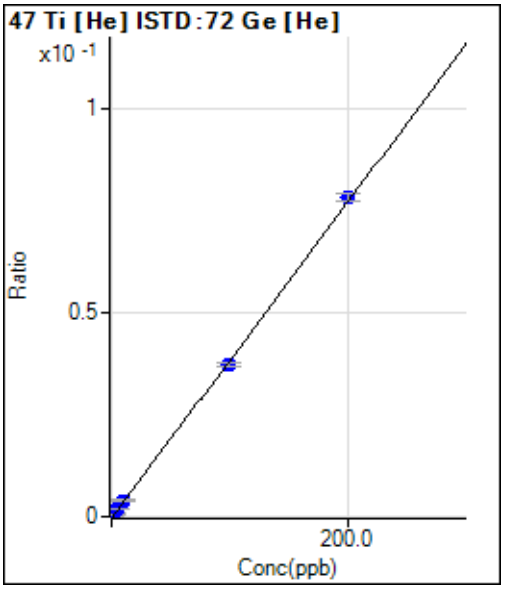
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	180.00	0.0001	P	9.2	
2	☐	2.000	1.993	2146.86	0.0015	P	4.0	-0.3
3	☐	5.000	4.706	4740.83	0.0033	P	0.6	-5.9
4	☐	10.000	9.975	9753.36	0.0067	P	2.1	-0.2
5	☐	100.000	98.850	93235.26	0.0657	P	2.2	-1.1
6	☐	200.000	200.584	185985.97	0.1333	P	3.2	0.3
7	☐	1.000						

y = 6.6373E-004 * x + 1.2748E-004
R = 1.0000
DL = 0.05311 ppb
BEC = 0.1921 ppb

Weight: <None>
Min Conc: <None>

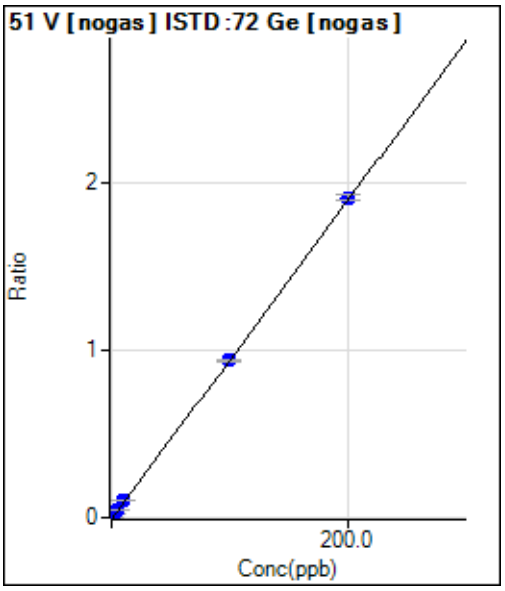


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13.33	0.0000	P	43.6	
2	☐	2.000	1.905	340.01	0.0008	P	28.2	-4.8
3	☐	5.000	4.588	793.37	0.0018	P	13.2	-8.2
4	☐	10.000	9.950	1693.46	0.0039	P	6.7	-0.5
5	☐	100.000	96.039	15878.55	0.0373	P	2.5	-4.0
6	☐	200.000	201.994	32752.29	0.0784	P	2.0	1.0
7	☐	1.000						

y = 3.8773E-004 * x + 3.0930E-005
R = 0.9997
DL = 0.1044 ppb
BEC = 0.07977 ppb

Weight: <None>
Min Conc: <None>

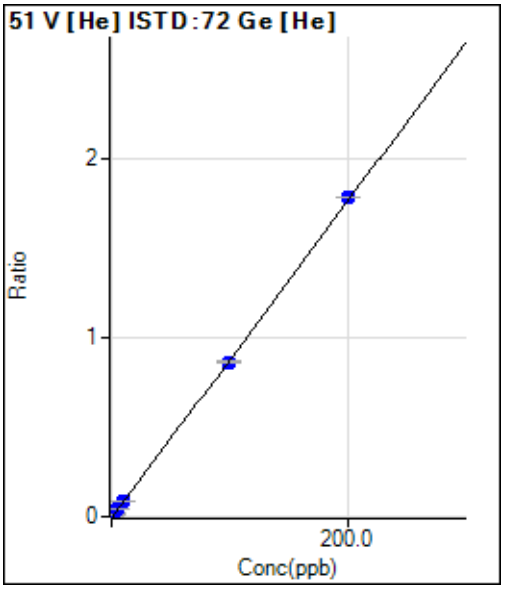
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-7376.45	-0.0052	P	-73.0	
2	☐	2.000	2.151	22646.01	0.0153	P	28.9	7.5
3	☐	5.000	5.329	66622.77	0.0457	P	3.5	6.6
4	☐	10.000	10.457	136724.48	0.0946	P	3.5	4.6
5	☐	100.000	98.848	1331267.73	0.9386	P	1.2	-1.2
6	☐	200.000	200.543	2665202.81	1.9097	P	2.0	0.3
7	☐	1.000						

y = 0.0095 * x - 0.0052
R = 1.0000
DL = 1.195 ppb
BEC = -0.5454 ppb

Weight: <None>
Min Conc: <None>

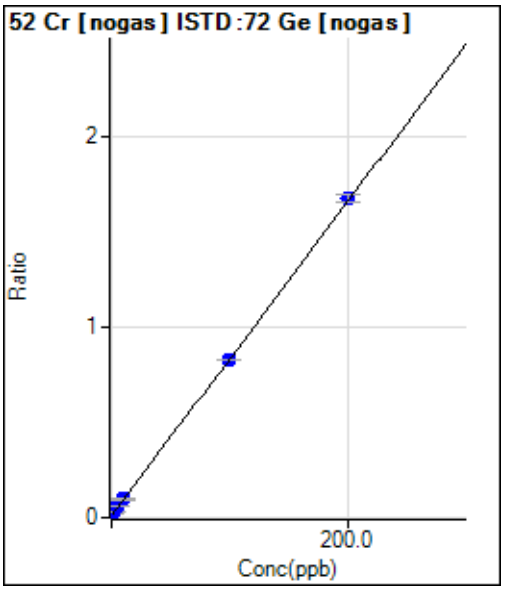


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	417.83	0.0010	P	179.2	
2	☐	2.000	1.780	7382.82	0.0167	P	21.4	-11.0
3	☐	5.000	4.755	18888.04	0.0431	P	8.7	-4.9
4	☐	10.000	9.666	37692.57	0.0866	P	4.2	-3.3
5	☐	100.000	97.348	367616.55	0.8629	P	0.8	-2.7
6	☐	200.000	201.351	745642.17	1.7837	P	0.5	0.7
7	☐	1.000						

y = 0.0089 * x + 9.7297E-004
R = 0.9999
DL = 0.5909 ppb
BEC = 0.1099 ppb

Weight: <None>
Min Conc: <None>

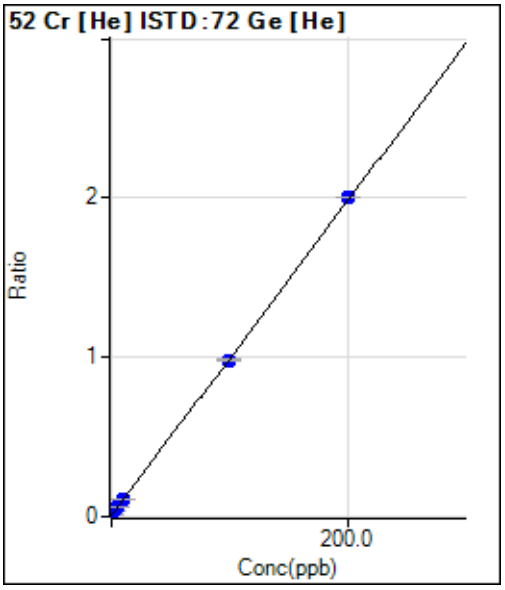
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	26567.04	0.0188	P	1.9	
2	☐	2.000	1.694	48568.38	0.0328	P	1.8	-15.3
3	☐	5.000	4.563	82447.55	0.0565	P	1.1	-8.7
4	☐	10.000	9.437	139886.09	0.0968	P	2.4	-5.6
5	☐	100.000	98.120	1176946.96	0.8298	P	1.0	-1.9
6	☐	200.000	200.982	2344700.33	1.6800	P	1.8	0.5
7	☐	1.000						

y = 0.0083 * x + 0.0188
R = 0.9999
DL = 0.1308 ppb
BEC = 2.277 ppb

Weight: <None>
Min Conc: <None>

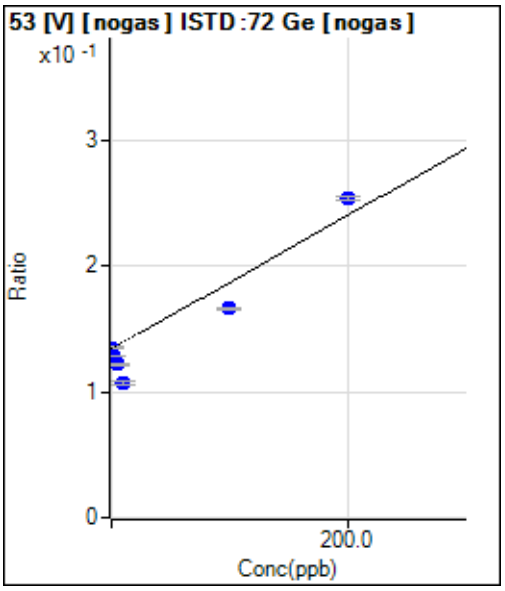


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	7455.32	0.0173	P	2.5	
2	☐	2.000	1.897	15898.59	0.0360	P	3.6	-5.1
3	☐	5.000	4.842	28553.98	0.0651	P	2.6	-3.2
4	☐	10.000	9.776	49598.25	0.1139	P	1.3	-2.2
5	☐	100.000	97.808	419087.48	0.9837	P	1.6	-2.2
6	☐	200.000	201.112	837926.73	2.0045	P	0.6	0.6
7	☐	1.000						

y = 0.0099 * x + 0.0173
R = 0.9999
DL = 0.1327 ppb
BEC = 1.749 ppb

Weight: <None>
Min Conc: <None>

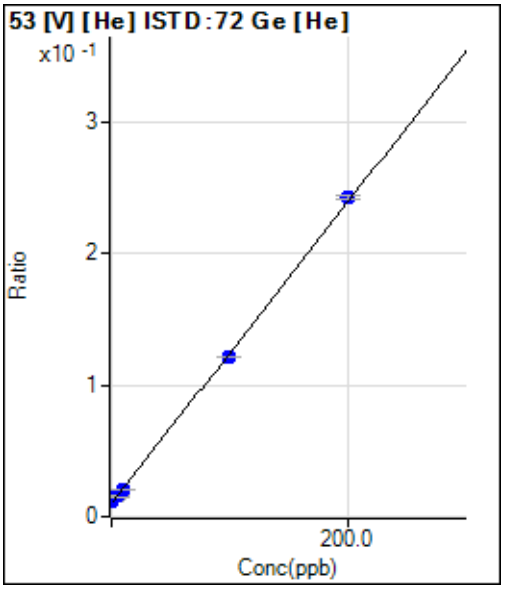
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	190446.52	0.1349	P	1.0	
2	☐	2.000	-11.240	190798.69	0.1289	P	0.2	-662.0
3	☐	5.000	-24.146	178028.78	0.1221	P	1.8	-582.9
4	☐	10.000	-52.678	154459.83	0.1069	P	2.2	-626.8
5	☐	100.000	59.661	236360.02	0.1666	P	0.8	-40.3
6	☐	200.000	224.165	354698.89	0.2541	P	1.5	12.1
7	☐	1.000						

y = 5.3190E-004 * x + 0.1349
R = 0.9652
DL = 7.416 ppb
BEC = 253.6 ppb

Weight: <None>
Min Conc: <None>

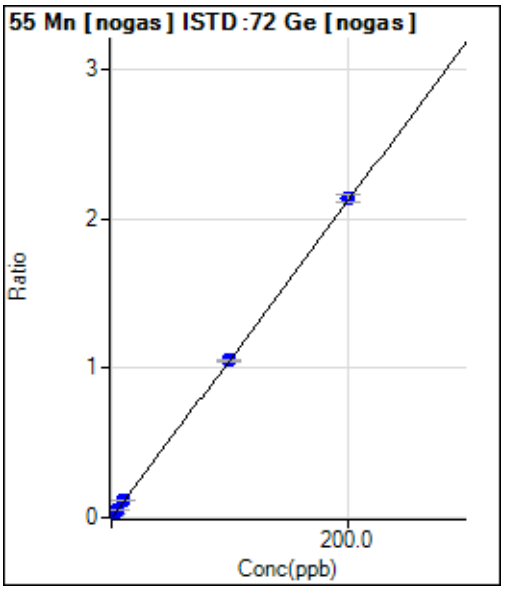


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4957.59	0.0115	P	2.3	
2	☐	2.000	2.202	6184.74	0.0140	P	5.0	10.1
3	☐	5.000	3.696	6895.06	0.0157	P	7.5	-26.1
4	☐	10.000	7.763	8882.75	0.0204	P	5.0	-22.4
5	☐	100.000	96.028	51795.53	0.1216	P	0.3	-4.0
6	☐	200.000	202.128	101666.88	0.2432	P	1.0	1.1
7	☐	1.000						

y = 0.0011 * x + 0.0115
R = 0.9997
DL = 0.699 ppb
BEC = 10.02 ppb

Weight: <None>
Min Conc: <None>

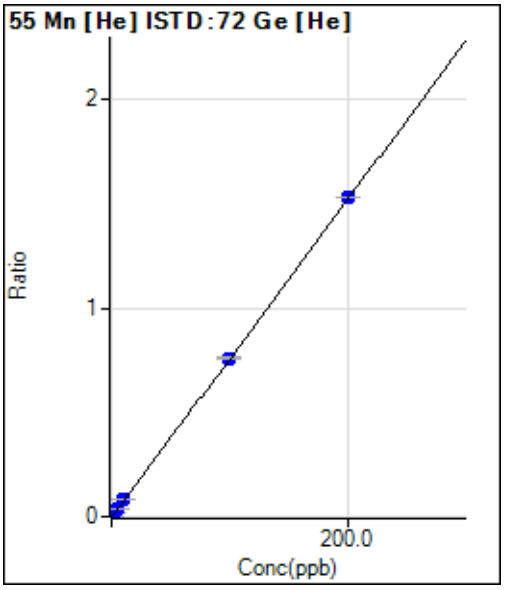
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10333.73	0.0073	P	4.3	
2	☐	2.000	1.826	39478.77	0.0267	P	3.3	-8.7
3	☐	5.000	4.640	82427.37	0.0565	P	1.3	-7.2
4	☐	10.000	9.705	159277.14	0.1102	P	1.4	-3.0
5	☐	100.000	98.516	1492037.01	1.0520	P	1.2	-1.5
6	☐	200.000	200.768	2981542.56	2.1363	P	1.9	0.4
7	☐	1.000						

y = 0.0106 * x + 0.0073
R = 1.0000
DL = 0.08919 ppb
BEC = 0.6902 ppb

Weight: <None>
Min Conc: <None>

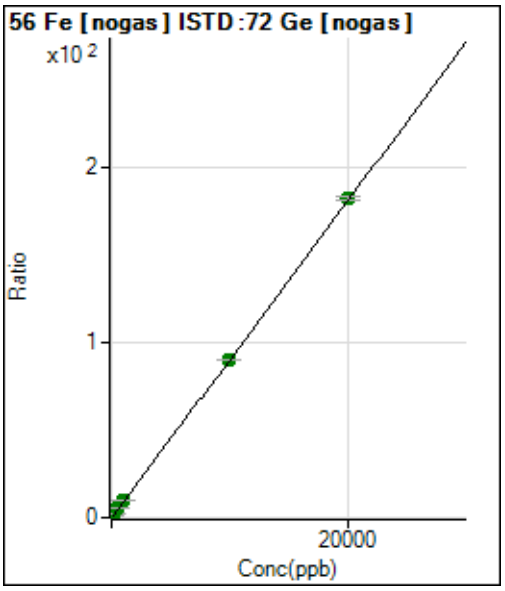


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1260.07	0.0029	P	11.9	
2	☐	2.000	1.968	7915.56	0.0179	P	7.1	-1.6
3	☐	5.000	4.998	18014.37	0.0411	P	1.0	0.0
4	☐	10.000	9.935	34309.27	0.0788	P	0.2	-0.7
5	☐	100.000	99.347	324376.37	0.7614	P	1.1	-0.7
6	☐	200.000	200.330	640564.04	1.5323	P	0.3	0.2
7	☐	1.000						

y = 0.0076 * x + 0.0029
R = 1.0000
DL = 0.1367 ppb
BEC = 0.3827 ppb

Weight: <None>
Min Conc: <None>

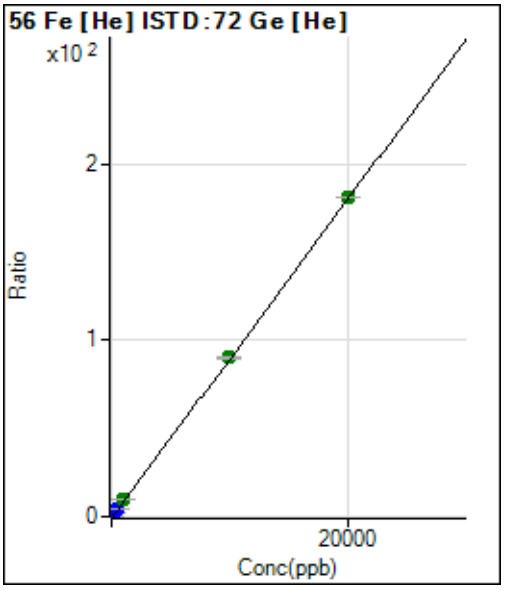
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	842151.45	0.5966	P	1.5	
2	☐	200.000	197.267	3528497.66	2.3846	A	1.6	-1.4
3	☐	500.000	501.373	7496961.97	5.1410	A	1.2	0.3
4	☐	1000.000	1013.044	14129775.62	9.7787	A	1.5	1.3
5	☐	10000.00	9877.471	127824711.4	90.1249	A	0.6	-1.2
6	☐	20000.00	20060.60	254600362.8	182.423	A	0.7	0.3
7	☐	100.000						

y = 0.0091 * x + 0.5966
R = 1.0000
DL = 2.877 ppb
BEC = 65.82 ppb

Weight: <None>
Min Conc: <None>

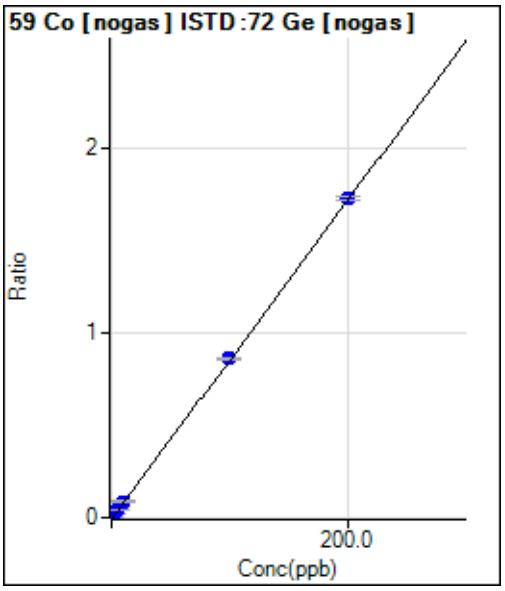


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	13653.04	0.0316	P	3.1	
2	☐	200.000	197.251	802271.63	1.8182	P	0.6	-1.4
3	☐	500.000	491.873	1967361.90	4.4866	P	1.8	-1.6
4	☐	1000.000	1039.715	4115522.86	9.4485	A	0.2	4.0
5	☐	10000.00	9955.851	38429955.26	90.2037	A	2.0	-0.4
6	☐	20000.00	20020.32	75813590.54	181.359	A	0.2	0.1
7	☐	100.000						

y = 0.0091 * x + 0.0316
R = 1.0000
DL = 0.3284 ppb
BEC = 3.494 ppb

Weight: <None>
Min Conc: <None>

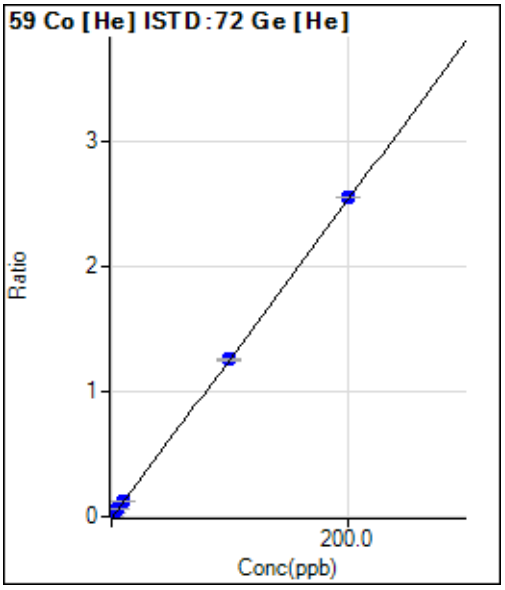
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	376.68	0.0003	P	9.9	
2	☐	2.000	2.004	26052.80	0.0176	P	2.9	0.2
3	☐	5.000	4.945	62797.53	0.0431	P	1.6	-1.1
4	☐	10.000	10.119	126931.51	0.0878	P	2.5	1.2
5	☐	100.000	99.505	1221924.02	0.8615	P	2.0	-0.5
6	☐	200.000	200.243	2419335.48	1.7334	P	1.3	0.1
7	☐	1.000						

y = 0.0087 * x + 2.6669E-004
R = 1.0000
DL = 0.009146 ppb
BEC = 0.03081 ppb

Weight: <None>
Min Conc: <None>

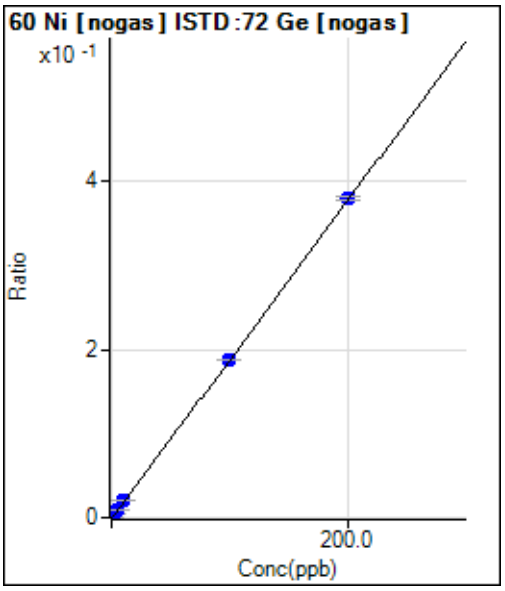


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	173.33	0.0004	P	8.8	
2	☐	2.000	2.006	11447.87	0.0259	P	1.5	0.3
3	☐	5.000	4.994	28056.50	0.0640	P	1.5	-0.1
4	☐	10.000	9.879	54950.49	0.1262	P	3.8	-1.2
5	☐	100.000	98.564	534749.59	1.2551	P	1.2	-1.4
6	☐	200.000	200.724	1068334.59	2.5556	P	0.4	0.4
7	☐	1.000						

y = 0.0127 * x + 4.0174E-004
R = 1.0000
DL = 0.008325 ppb
BEC = 0.03156 ppb

Weight: <None>
Min Conc: <None>

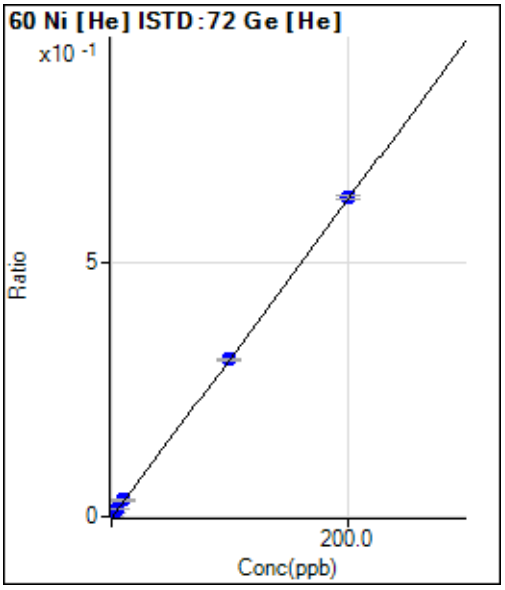
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	533.35	0.0004	P	10.6	
2	☐	2.000	2.099	6448.18	0.0044	P	6.6	4.9
3	☐	5.000	5.075	14580.66	0.0100	P	2.1	1.5
4	☐	10.000	10.146	28343.66	0.0196	P	1.4	1.5
5	☐	100.000	99.281	267481.58	0.1886	P	0.4	-0.7
6	☐	200.000	200.349	530632.06	0.3802	P	1.4	0.2
7	☐	1.000						

y = 0.0019 * x + 3.7779E-004
R = 1.0000
DL = 0.0632 ppb
BEC = 0.1993 ppb

Weight: <None>
Min Conc: <None>

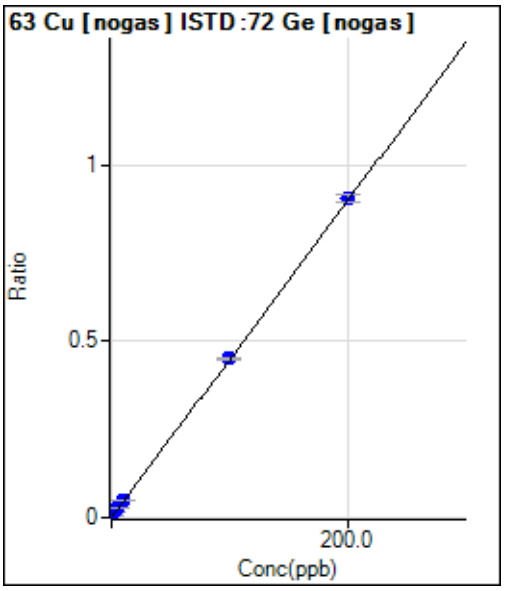


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	160.00	0.0004	P	28.7	
2	☐	2.000	2.037	2973.68	0.0067	P	6.2	1.8
3	☐	5.000	5.141	7208.53	0.0164	P	0.7	2.8
4	☐	10.000	10.376	14283.64	0.0328	P	4.5	3.8
5	☐	100.000	98.762	131665.34	0.3090	P	1.5	-1.2
6	☐	200.000	200.596	262228.38	0.6273	P	0.9	0.3
7	☐	1.000						

y = 0.0031 * x + 3.7083E-004
R = 1.0000
DL = 0.102 ppb
BEC = 0.1187 ppb

Weight: <None>
Min Conc: <None>

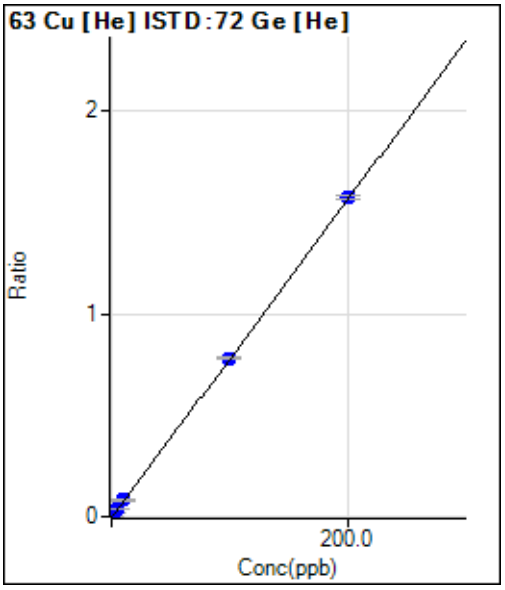
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	6968.39	0.0049	P	9.3	
2	☐	2.000	1.984	20514.26	0.0139	P	2.5	-0.8
3	☐	5.000	4.894	39298.41	0.0269	P	1.9	-2.1
4	☐	10.000	10.274	73918.33	0.0512	P	1.0	2.7
5	☐	100.000	99.079	639148.14	0.4506	P	1.2	-0.9
6	☐	200.000	200.450	1265382.59	0.9067	P	1.9	0.2
7	☐	1.000						

y = 0.0045 * x + 0.0049
R = 1.0000
DL = 0.3068 ppb
BEC = 1.097 ppb

Weight: <None>
Min Conc: <None>

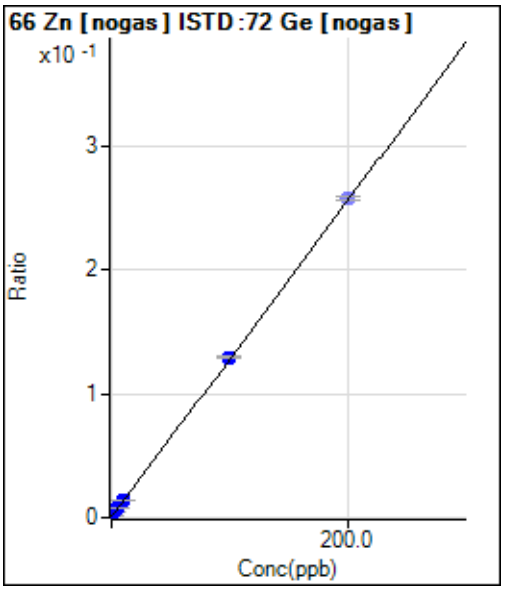


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	606.69	0.0014	P	14.7	
2	☐	2.000	2.013	7602.09	0.0172	P	3.4	0.7
3	☐	5.000	5.050	18021.10	0.0411	P	1.1	1.0
4	☐	10.000	10.156	35378.58	0.0812	P	1.8	1.6
5	☐	100.000	99.174	332682.66	0.7809	P	0.9	-0.8
6	☐	200.000	200.404	659033.19	1.5765	P	0.7	0.2
7	☐	1.000						

y = 0.0079 * x + 0.0014
R = 1.0000
DL = 0.07896 ppb
BEC = 0.1789 ppb

Weight: <None>
Min Conc: <None>

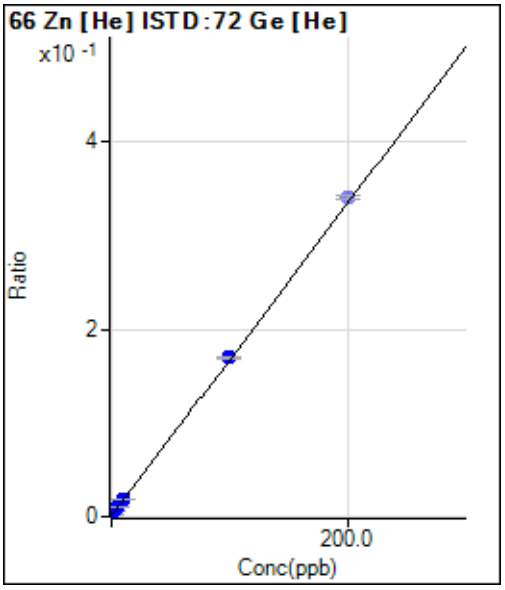
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2580.27	0.0018	P	4.4	
2	☐	2.000	1.982	6454.86	0.0044	P	11.0	-0.9
3	☐	5.000	4.923	11851.56	0.0081	P	5.3	-1.5
4	☐	10.000	9.910	20968.27	0.0145	P	1.5	-0.9
5	☐	100.000	100.013	184136.38	0.1298	P	1.6	0.0
6	☑	200.000		360493.98	0.2583	P	1.2	
7	☐	1.000						

y = 0.0013 * x + 0.0018
R = 1.0000
DL = 0.1867 ppb
BEC = 1.428 ppb

Weight: <None>
Min Conc: <None>

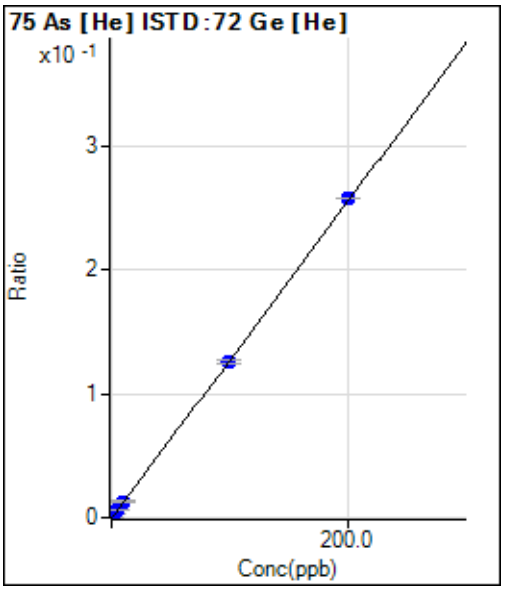


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1086.73	0.0025	P	4.1	
2	☐	2.000	1.851	2476.91	0.0056	P	9.6	-7.5
3	☐	5.000	4.757	4590.77	0.0105	P	3.5	-4.9
4	☐	10.000	9.646	8119.00	0.0186	P	1.1	-3.5
5	☐	100.000	100.051	72307.43	0.1697	P	0.7	0.1
6	☑	200.000		142633.57	0.3412	P	0.8	
7	☐	1.000						

y = 0.0017 * x + 0.0025
R = 1.0000
DL = 0.1852 ppb
BEC = 1.507 ppb

Weight: <None>
Min Conc: <None>

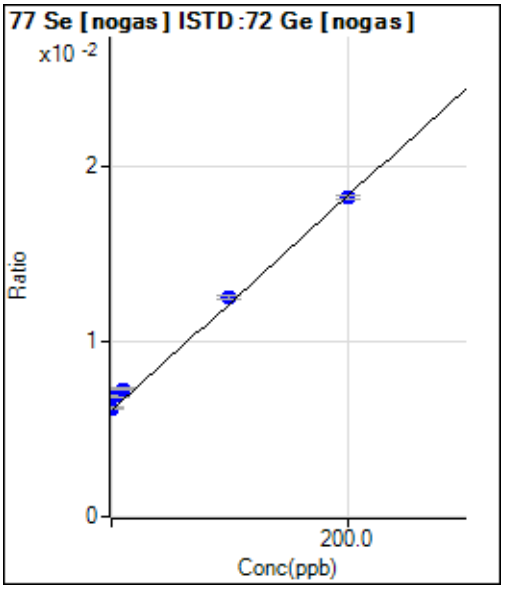
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	256.67	0.0006	P	18.0	
2	☐	2.000	1.906	1338.96	0.0030	P	2.4	-4.7
3	☐	5.000	4.704	2901.41	0.0066	P	2.1	-5.9
4	☐	10.000	9.771	5706.67	0.0131	P	1.8	-2.3
5	☐	100.000	98.002	53695.29	0.1260	P	2.1	-2.0
6	☐	200.000	201.019	107807.88	0.2579	P	0.2	0.5
7	☐	1.000						

y = 0.0013 * x + 5.9474E-004
R = 0.9999
DL = 0.2506 ppb
BEC = 0.4646 ppb

Weight: <None>
Min Conc: <None>

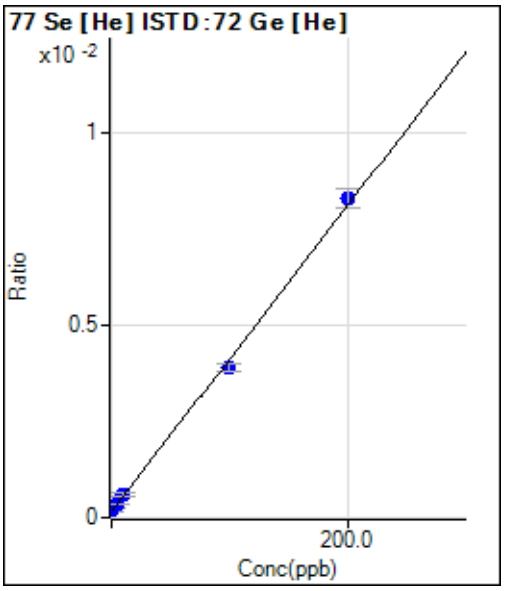


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	8696.01	0.0062	P	2.0	
2	☐	2.000	13.085	10297.04	0.0070	P	2.7	554.2
3	☐	5.000	11.984	10050.24	0.0069	P	1.7	139.7
4	☐	10.000	18.495	10533.87	0.0073	P	1.5	84.9
5	☐	100.000	103.699	17724.17	0.0125	P	1.3	3.7
6	☐	200.000	197.440	25435.47	0.0182	P	1.1	-1.3
7	☐	1.000						

y = 6.1113E-005 * x + 0.0062
R = 0.9988
DL = 6.036 ppb
BEC = 100.8 ppb

Weight: <None>
Min Conc: <None>

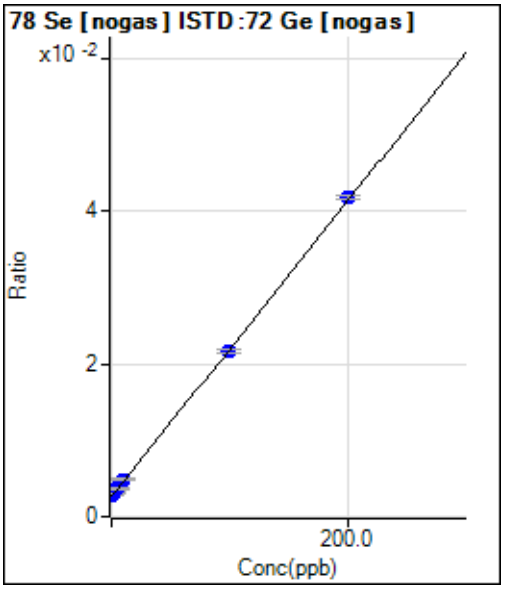
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	86.67	0.0002	P	29.4	
2	☐	2.000	2.742	136.67	0.0003	P	30.8	37.1
3	☐	5.000	3.929	156.67	0.0004	P	9.6	-21.4
4	☐	10.000	9.778	256.68	0.0006	P	18.7	-2.2
5	☐	100.000	92.963	1660.12	0.0039	P	5.3	-7.0
6	☐	200.000	203.549	3467.13	0.0083	P	6.4	1.8
7	☐	1.000						

y = 3.9759E-005 * x + 2.0103E-004
R = 0.9991
DL = 4.457 ppb
BEC = 5.056 ppb

Weight: <None>
Min Conc: <None>

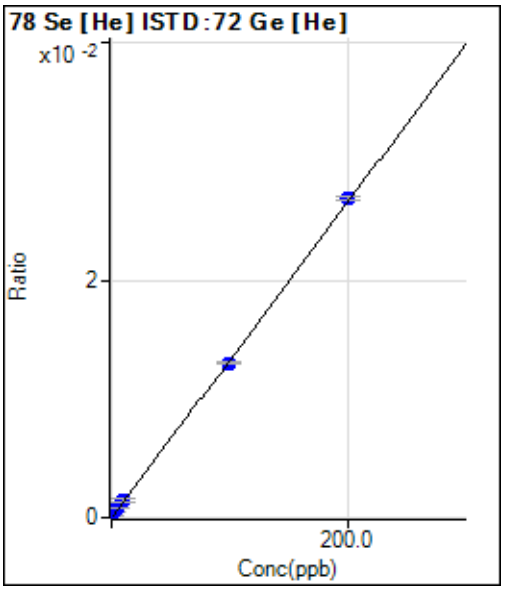


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	4003.96	0.0028	P	6.2	
2	☐	2.000	1.315	4574.13	0.0031	P	4.2	-34.3
3	☐	5.000	4.325	5357.73	0.0037	P	10.4	-13.5
4	☐	10.000	10.685	7088.49	0.0049	P	5.7	6.9
5	☐	100.000	97.212	30735.47	0.0217	P	2.1	-2.8
6	☐	200.000	201.383	58411.66	0.0419	P	1.0	0.7
7	☐	1.000						

y = 1.9374E-004 * x + 0.0028
R = 0.9999
DL = 2.744 ppb
BEC = 14.64 ppb

Weight: <None>
Min Conc: <None>

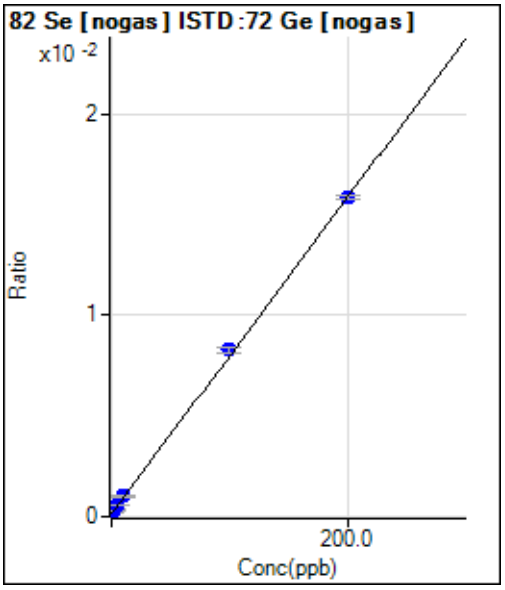
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	50.67	0.0001	P	9.5	
2	☐	2.000	2.414	193.33	0.0004	P	9.4	20.7
3	☐	5.000	5.039	345.34	0.0008	P	7.6	0.8
4	☐	10.000	10.049	632.68	0.0015	P	12.1	0.5
5	☐	100.000	97.129	5551.05	0.0130	P	0.9	-2.9
6	☐	200.000	201.428	11242.28	0.0269	P	1.8	0.7
7	☐	1.000						

y = 1.3293E-004 * x + 1.1741E-004
R = 0.9998
DL = 0.2525 ppb
BEC = 0.8832 ppb

Weight: <None>
Min Conc: <None>

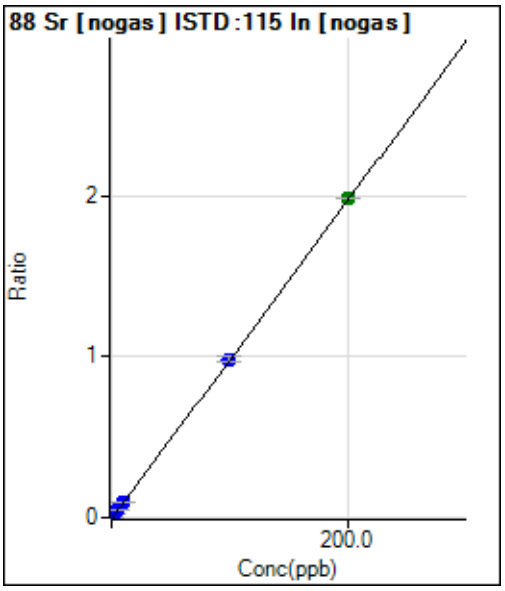


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	316.68	0.0002	P	12.5	
2	☐	2.000	1.214	473.35	0.0003	P	13.6	-39.3
3	☐	5.000	4.269	816.71	0.0006	P	0.8	-14.6
4	☐	10.000	9.964	1456.77	0.0010	P	7.2	-0.4
5	☐	100.000	102.414	11734.86	0.0083	P	2.8	2.4
6	☐	200.000	198.821	22123.51	0.0159	P	1.4	-0.6
7	☐	1.000						

y = 7.8600E-005 * x + 2.2444E-004
R = 0.9999
DL = 1.074 ppb
BEC = 2.855 ppb

Weight: <None>
Min Conc: <None>

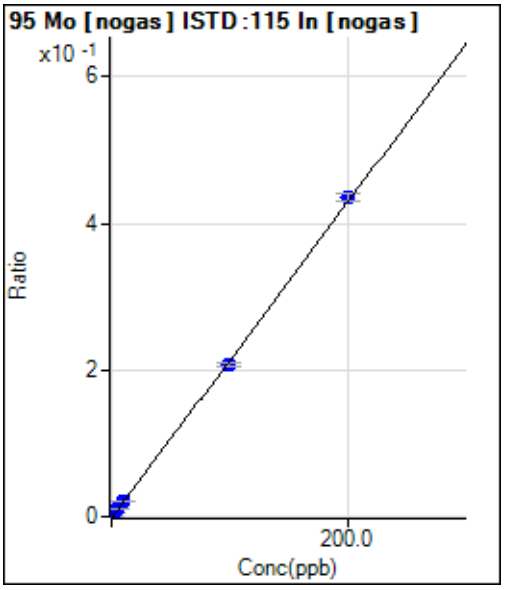
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1363.42	0.0008	P	5.1	
2	☐	2.000	1.960	35259.14	0.0202	P	2.4	-2.0
3	☐	5.000	4.875	84993.69	0.0491	P	1.0	-2.5
4	☐	10.000	9.795	168530.76	0.0978	P	0.5	-2.1
5	☐	100.000	99.314	1655391.38	0.9841	P	3.0	-0.7
6	☐	200.000	200.357	3247327.04	1.9845	A	0.4	0.2
7	☐	1.000						

y = 0.0099 * x + 8.1334E-004
R = 1.0000
DL = 0.01246 ppb
BEC = 0.08215 ppb

Weight: <None>
Min Conc: <None>

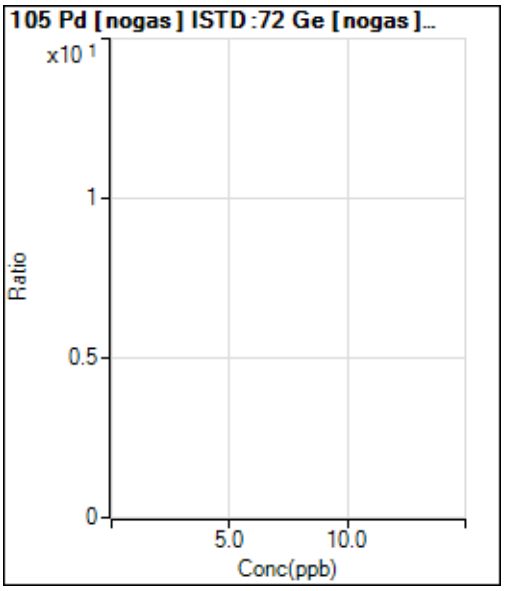


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	363.35	0.0002	P	23.4	
2	☐	2.000	1.844	7315.29	0.0042	P	2.2	-7.8
3	☐	5.000	4.533	17307.02	0.0100	P	2.7	-9.3
4	☐	10.000	9.631	36185.10	0.0210	P	2.4	-3.7
5	☐	100.000	96.132	349189.53	0.2076	P	2.4	-3.9
6	☐	200.000	201.966	713267.46	0.4359	P	1.9	1.0
7	☐	1.000						

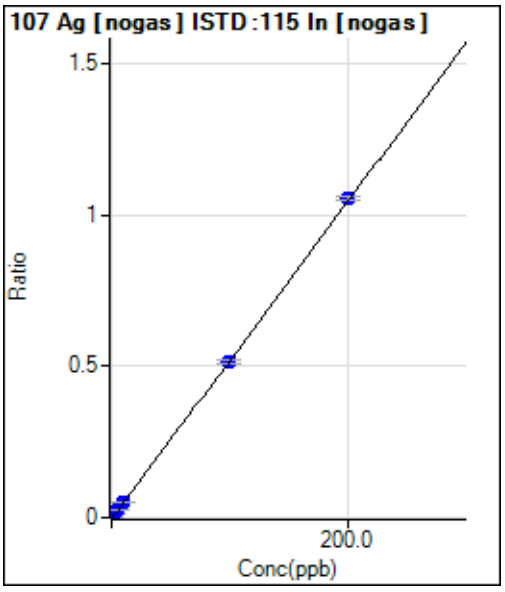
y = 0.0022 * x + 2.1679E-004
R = 0.9997
DL = 0.07046 ppb
BEC = 0.1005 ppb

Weight: <None>
Min Conc: <None>

Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000						
2	☐	2.000						
3	☐	5.000						
4	☐	10.000						
5	☐	100.000						
6	☐	200.000						
7	☐	1.000						



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	150.00	0.0001	P	19.8	
2	☐	2.000	1.978	18261.73	0.0105	P	0.1	-1.1
3	☐	5.000	4.901	44702.39	0.0258	P	0.6	-2.0
4	☐	10.000	9.870	89409.60	0.0519	P	2.5	-1.3
5	☐	100.000	97.922	864654.02	0.5140	P	2.7	-2.1
6	☐	200.000	201.048	1726840.03	1.0552	P	1.4	0.5
7	☐	1.000						

y = 0.0052 * x + 8.9475E-005

R = 0.9999

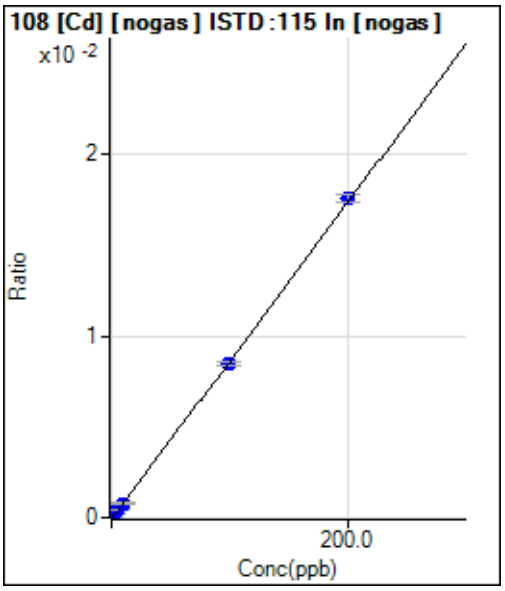
DL = 0.0101 ppb

BEC = 0.01705 ppb

Weight: <None>

Min Conc: <None>

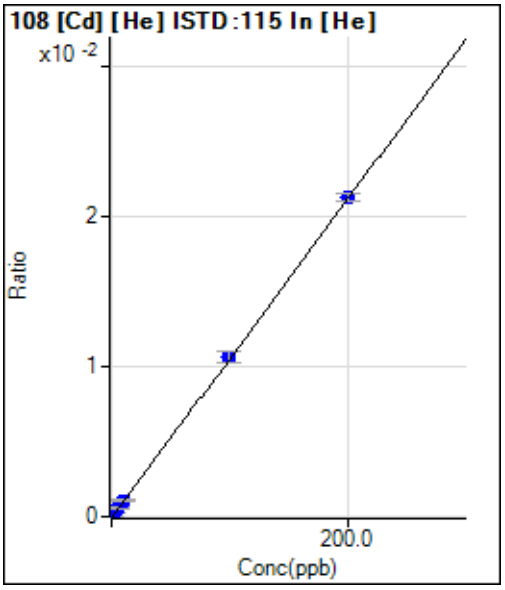
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3.33	0.0000	P	173.2	
2	☐	2.000	2.253	346.68	0.0002	P	12.1	12.6
3	☐	5.000	5.207	790.03	0.0005	P	6.5	4.1
4	☐	10.000	8.480	1276.74	0.0007	P	14.2	-15.2
5	☐	100.000	97.005	14240.54	0.0085	P	3.3	-3.0
6	☐	200.000	201.566	28778.87	0.0176	P	2.5	0.8
7	☐	1.000						

y = 8.7248E-005 * x + 2.0017E-006
R = 0.9998
DL = 0.1192 ppb
BEC = 0.02294 ppb

Weight: <None>
Min Conc: <None>

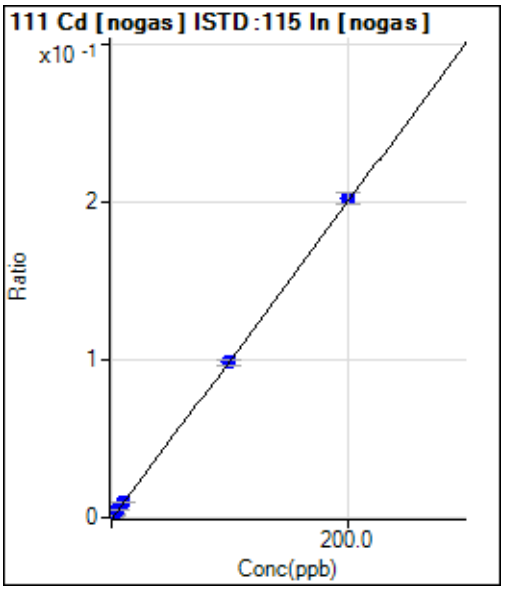


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	10.00	0.0000	P	101.0	
2	☐	2.000	2.181	173.34	0.0002	P	31.5	9.0
3	☐	5.000	5.131	390.01	0.0006	P	28.8	2.6
4	☐	10.000	9.985	743.37	0.0011	P	11.5	-0.2
5	☐	100.000	99.966	6991.83	0.0107	P	6.6	0.0
6	☐	200.000	200.013	13813.42	0.0213	P	2.9	0.0
7	☐	1.000						

y = 1.0647E-004 * x + 1.4668E-005
R = 1.0000
DL = 0.4175 ppb
BEC = 0.1378 ppb

Weight: <None>
Min Conc: <None>

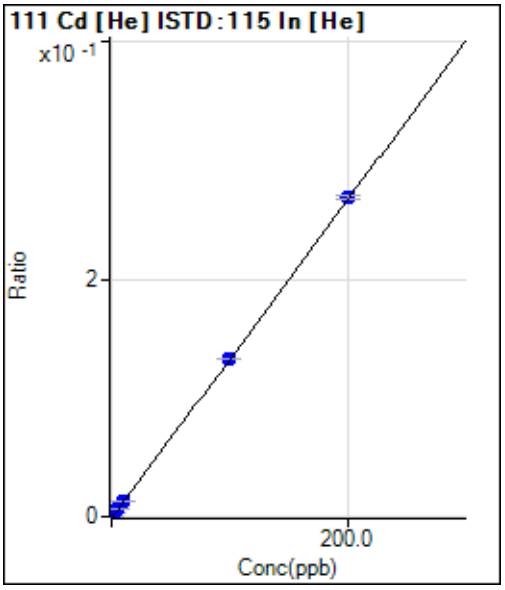
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	23.09	0.0000	P	51.5	
2	☐	2.000	1.872	3308.55	0.0019	P	8.5	-6.4
3	☐	5.000	4.957	8658.92	0.0050	P	7.9	-0.9
4	☐	10.000	9.657	16771.61	0.0097	P	0.5	-3.4
5	☐	100.000	97.628	165289.26	0.0983	P	3.0	-2.4
6	☐	200.000	201.205	331373.14	0.2025	P	3.1	0.6
7	☐	1.000						

y = 0.0010 * x + 1.3750E-005
R = 0.9999
DL = 0.02113 ppb
BEC = 0.01366 ppb

Weight: <None>
Min Conc: <None>

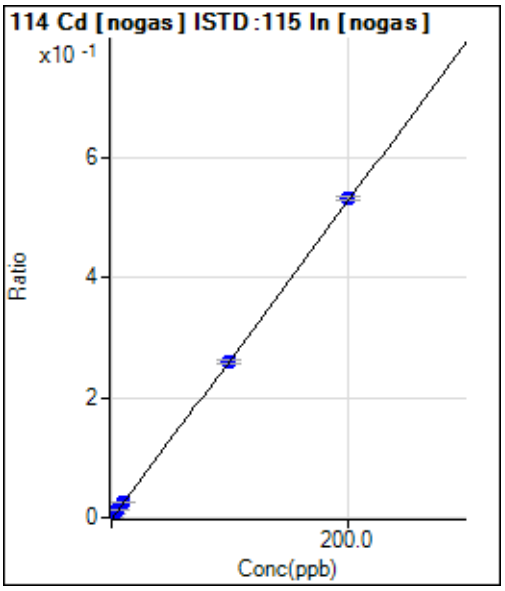


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	-4.06	0.0000	P	-158.	
2	☐	2.000	2.017	1894.20	0.0027	P	10.6	0.9
3	☐	5.000	4.678	4355.73	0.0063	P	1.2	-6.4
4	☐	10.000	9.538	8832.37	0.0128	P	3.4	-4.6
5	☐	100.000	98.870	87007.68	0.1326	P	0.8	-1.1
6	☐	200.000	200.596	174395.61	0.2691	P	1.0	0.3
7	☐	1.000						

y = 0.0013 * x - 6.0090E-006
R = 1.0000
DL = 0.02127 ppb
BEC = -0.004479 ppb

Weight: <None>
Min Conc: <None>

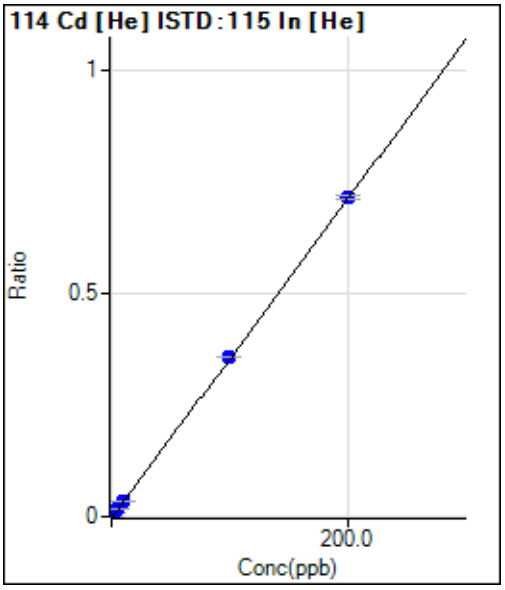
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	90.00	0.0001	P	22.0	
2	☐	2.000	1.946	9083.00	0.0052	P	4.4	-2.7
3	☐	5.000	4.829	22240.66	0.0128	P	1.7	-3.4
4	☐	10.000	9.650	44137.46	0.0256	P	2.1	-3.5
5	☐	100.000	98.153	437445.42	0.2600	P	2.4	-1.8
6	☐	200.000	200.946	871081.78	0.5323	P	1.2	0.5
7	☐	1.000						

y = 0.0026 * x + 5.3683E-005
R = 0.9999
DL = 0.01336 ppb
BEC = 0.02027 ppb

Weight: <None>
Min Conc: <None>

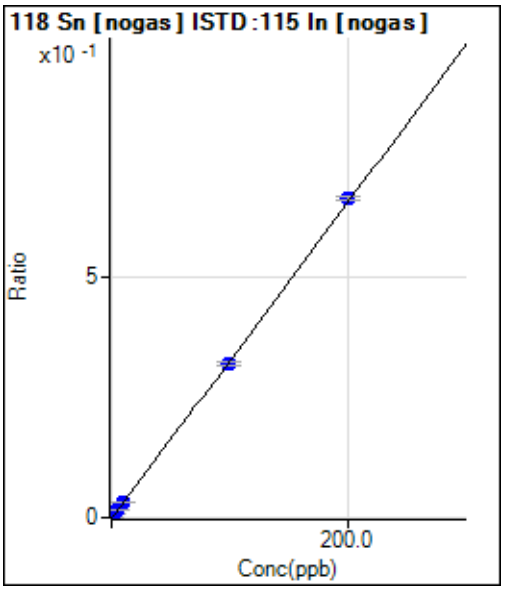


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	43.33	0.0001	P	69.6	
2	☐	2.000	1.973	4990.97	0.0071	P	1.0	-1.3
3	☐	5.000	4.732	11791.65	0.0170	P	1.9	-5.4
4	☐	10.000	9.531	23559.43	0.0341	P	1.8	-4.7
5	☐	100.000	100.060	234585.54	0.3576	P	0.8	0.1
6	☐	200.000	200.001	463159.81	0.7147	P	1.0	0.0
7	☐	1.000						

y = 0.0036 * x + 6.3156E-005
R = 1.0000
DL = 0.03691 ppb
BEC = 0.01768 ppb

Weight: <None>
Min Conc: <None>

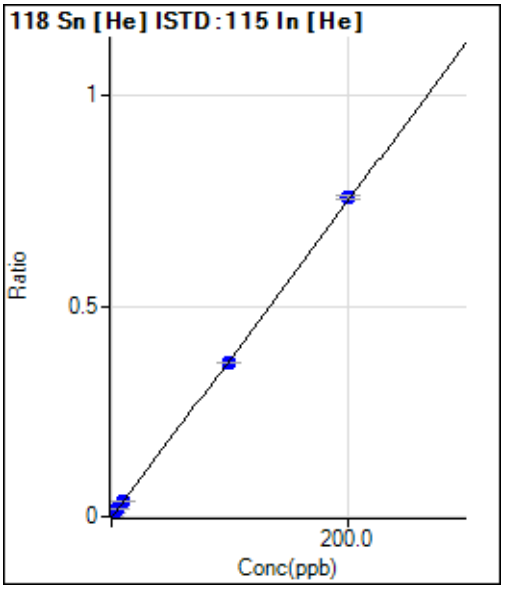
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2213.55	0.0013	P	7.4	
2	☐	2.000	1.740	12258.77	0.0070	P	3.5	-13.0
3	☐	5.000	4.640	28655.42	0.0165	P	2.2	-7.2
4	☐	10.000	9.444	55687.71	0.0323	P	1.5	-5.6
5	☐	100.000	96.758	536381.97	0.3188	P	2.4	-3.2
6	☐	200.000	201.660	1085105.58	0.6631	P	1.5	0.8
7	☐	1.000						

y = 0.0033 * x + 0.0013
R = 0.9998
DL = 0.08991 ppb
BEC = 0.4025 ppb

Weight: <None>
Min Conc: <None>

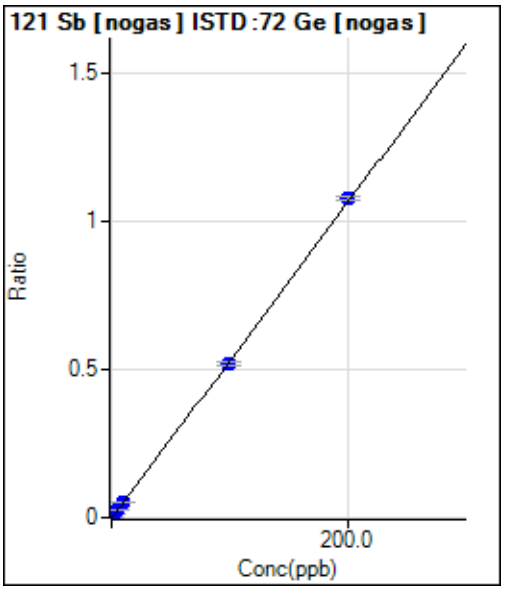


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1073.40	0.0016	P	9.8	
2	☐	2.000	1.663	5491.16	0.0078	P	6.5	-16.9
3	☐	5.000	4.415	12625.68	0.0182	P	3.8	-11.7
4	☐	10.000	9.305	25239.12	0.0366	P	2.1	-6.9
5	☐	100.000	97.026	240337.00	0.3664	P	0.7	-3.0
6	☐	200.000	201.540	492083.14	0.7593	P	0.8	0.8
7	☐	1.000						

y = 0.0038 * x + 0.0016
R = 0.9999
DL = 0.1226 ppb
BEC = 0.4186 ppb

Weight: <None>
Min Conc: <None>

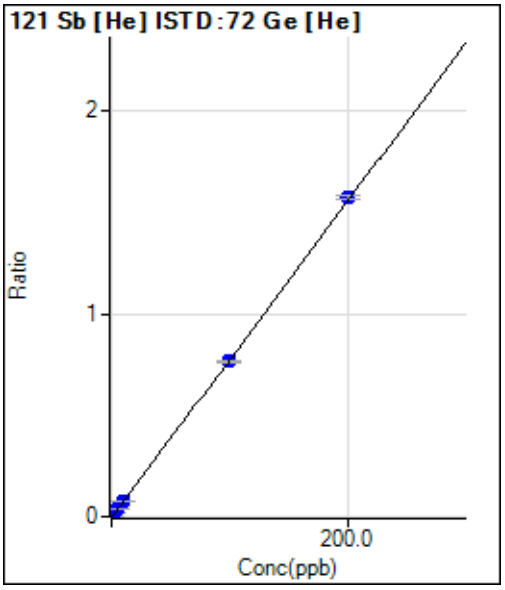
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	3037.04	0.0022	P	3.2	
2	☐	2.000	1.767	17157.19	0.0116	P	1.6	-11.6
3	☐	5.000	4.594	38929.43	0.0267	P	2.5	-8.1
4	☐	10.000	9.611	77306.64	0.0535	P	1.8	-3.9
5	☐	100.000	96.936	737654.52	0.5201	P	2.6	-3.1
6	☐	200.000	201.564	1506100.97	1.0791	P	1.6	0.8
7	☐	1.000						

y = 0.0053 * x + 0.0022
R = 0.9998
DL = 0.03909 ppb
BEC = 0.4026 ppb

Weight: <None>
Min Conc: <None>

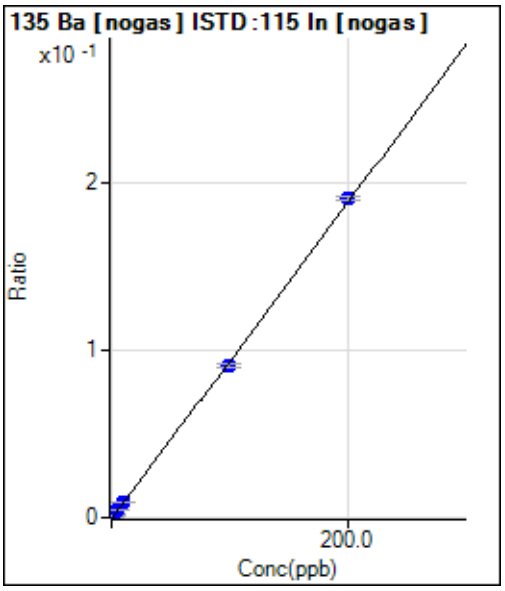


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	1160.07	0.0027	P	7.7	
2	☐	2.000	1.892	7715.54	0.0175	P	2.9	-5.4
3	☐	5.000	4.590	16916.87	0.0386	P	1.7	-8.2
4	☐	10.000	9.671	34113.98	0.0783	P	1.0	-3.3
5	☐	100.000	97.464	325851.18	0.7649	P	1.0	-2.5
6	☐	200.000	201.296	659151.85	1.5768	P	1.2	0.6
7	☐	1.000						

y = 0.0078 * x + 0.0027
R = 0.9999
DL = 0.07909 ppb
BEC = 0.3438 ppb

Weight: <None>
Min Conc: <None>

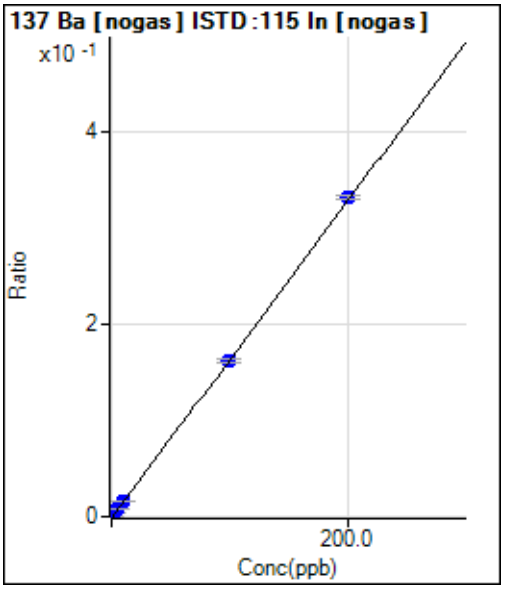
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	180.00	0.0001	P	36.4	
2	☐	2.000	1.731	3047.04	0.0017	P	3.6	-13.4
3	☐	5.000	4.851	8142.45	0.0047	P	2.1	-3.0
4	☐	10.000	9.573	15812.34	0.0092	P	1.8	-4.3
5	☐	100.000	96.501	153958.99	0.0915	P	2.6	-3.5
6	☐	200.000	201.777	312966.52	0.1912	P	1.6	0.9
7	☐	1.000						

y = 9.4727E-004 * x + 1.0743E-004
R = 0.9998
DL = 0.124 ppb
BEC = 0.1134 ppb

Weight: <None>
Min Conc: <None>

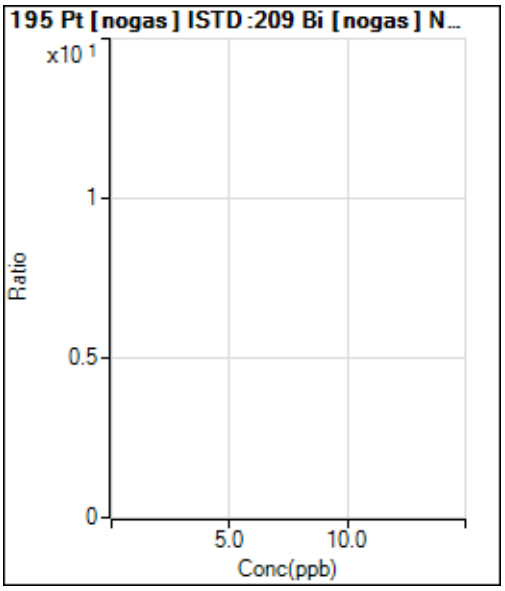


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	330.01	0.0002	P	23.2	
2	☐	2.000	1.878	5747.91	0.0033	P	9.7	-6.1
3	☐	5.000	4.734	13877.03	0.0080	P	8.2	-5.3
4	☐	10.000	9.751	28101.29	0.0163	P	0.6	-2.5
5	☐	100.000	97.633	271627.90	0.1615	P	2.4	-2.4
6	☐	200.000	201.204	544185.04	0.3325	P	1.4	0.6
7	☐	1.000						

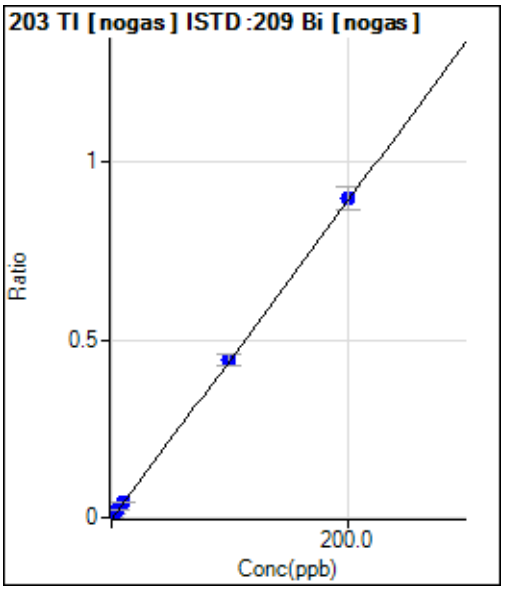
y = 0.0017 * x + 1.9677E-004
R = 0.9999
DL = 0.08289 ppb
BEC = 0.1191 ppb

Weight: <None>
Min Conc: <None>

Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000						
2	☐	2.000						
3	☐	5.000						
4	☐	10.000						
5	☐	100.000						
6	☐	200.000						
7	☐	1.000						

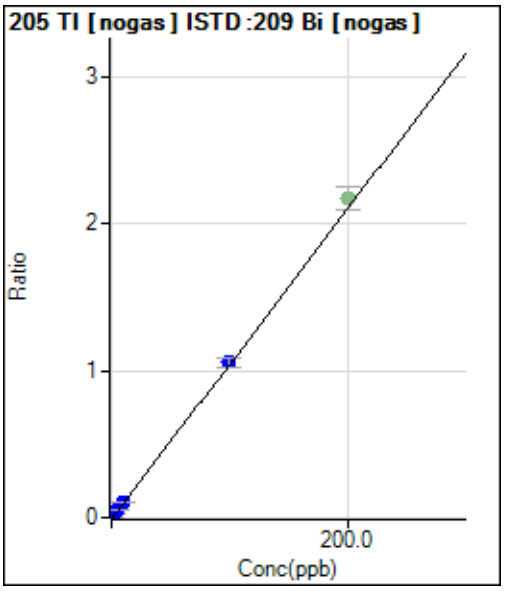


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	220.01	0.0001	P	13.2	
2	☐	2.000	1.932	14981.71	0.0088	P	8.4	-3.4
3	☐	5.000	4.779	36405.43	0.0215	P	8.1	-4.4
4	☐	10.000	9.551	73111.75	0.0429	P	7.4	-4.5
5	☐	100.000	98.689	736785.17	0.4420	P	7.6	-1.3
6	☐	200.000	200.684	1465250.08	0.8988	P	6.9	0.3
7	☐	1.000						

y = 0.0045 * x + 1.3504E-004
R = 1.0000
DL = 0.01194 ppb
BEC = 0.03016 ppb

Weight: <None>
Min Conc: <None>

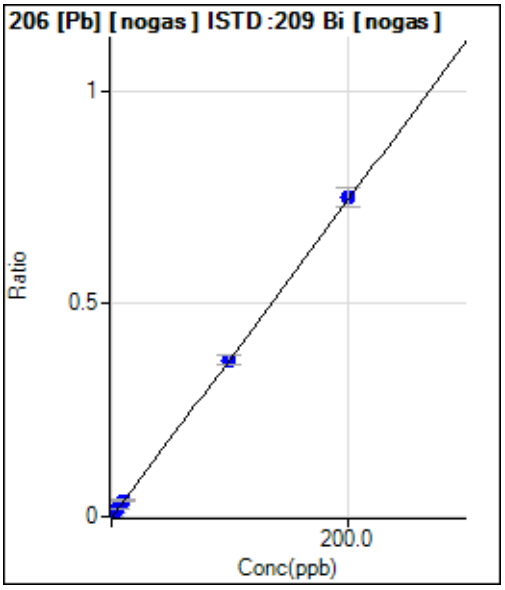
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	426.68	0.0003	P	7.1	
2	☐	2.000	1.965	35840.81	0.0210	P	9.9	-1.7
3	☐	5.000	4.889	87848.08	0.0519	P	7.7	-2.2
4	☐	10.000	9.783	176634.70	0.1037	P	7.7	-2.2
5	☐	100.000	100.028	1763659.97	1.0577	P	6.4	0.0
6	☑	200.000		3544319.32	2.1742	A	7.2	
7	☐	1.000						

y = 0.0106 * x + 2.6260E-004
R = 1.0000
DL = 0.005277 ppb
BEC = 0.02484 ppb

Weight: <None>
Min Conc: <None>

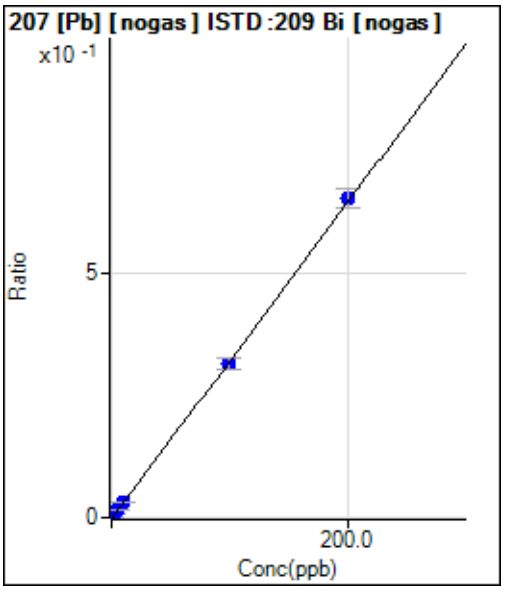


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	816.70	0.0005	P	13.5	
2	☐	2.000	2.003	13593.67	0.0080	P	9.3	0.1
3	☐	5.000	4.949	32094.72	0.0190	P	7.2	-1.0
4	☐	10.000	9.715	62573.51	0.0368	P	9.4	-2.9
5	☐	100.000	98.264	612192.10	0.3672	P	6.8	-1.7
6	☐	200.000	200.883	1223063.11	0.7501	P	6.5	0.4
7	☐	1.000						

y = 0.0037 * x + 5.0401E-004
R = 0.9999
DL = 0.05468 ppb
BEC = 0.1351 ppb

Weight: <None>
Min Conc: <None>

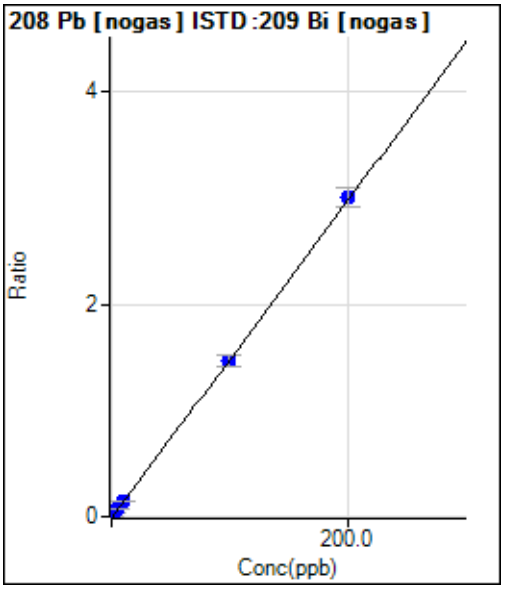
Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	560.02	0.0003	P	3.6	
2	☐	2.000	2.041	11828.62	0.0069	P	10.6	2.1
3	☐	5.000	4.845	27107.21	0.0160	P	5.2	-3.1
4	☐	10.000	9.800	54616.08	0.0320	P	6.3	-2.0
5	☐	100.000	97.055	523932.67	0.3142	P	6.4	-2.9
6	☐	200.000	201.486	1062939.88	0.6519	P	6.5	0.7
7	☐	1.000						

y = 0.0032 * x + 3.4487E-004
R = 0.9998
DL = 0.01139 ppb
BEC = 0.1066 ppb

Weight: <None>
Min Conc: <None>

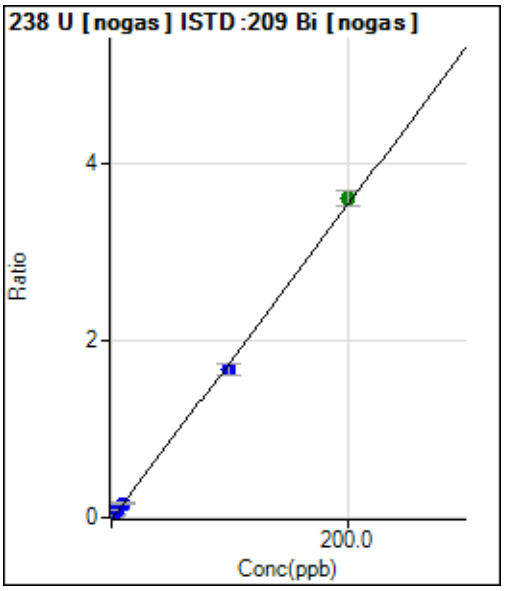


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	2930.17	0.0018	P	6.9	
2	☐	2.000	1.990	53735.40	0.0315	P	8.6	-0.5
3	☐	5.000	4.841	125368.80	0.0741	P	7.0	-3.2
4	☐	10.000	9.813	252849.75	0.1484	P	7.2	-1.9
5	☐	100.000	97.802	2438513.50	1.4627	P	6.9	-2.2
6	☐	200.000	201.112	4901202.48	3.0058	P	6.3	0.6
7	☐	1.000						

y = 0.0149 * x + 0.0018
R = 0.9999
DL = 0.02501 ppb
BEC = 0.1208 ppb

Weight: <None>
Min Conc: <None>

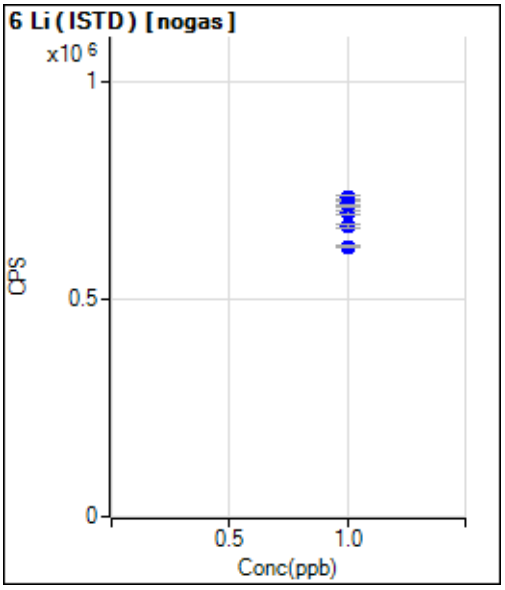
Calibration for 017_ICV.d



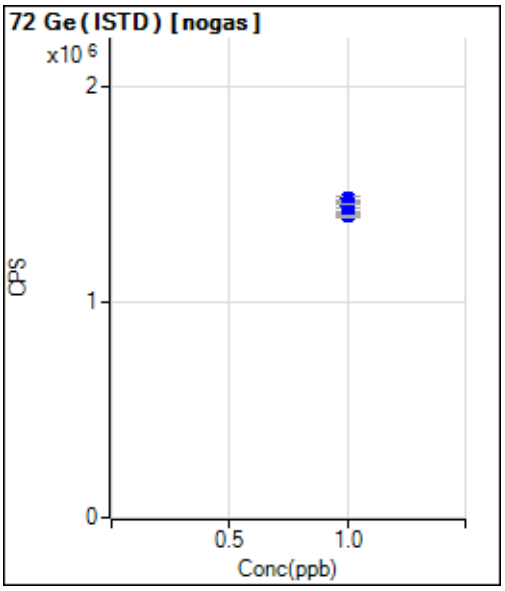
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	0.000	0.000	616.69	0.0004	P	17.9	
2	☐	2.000	1.795	55040.33	0.0323	P	7.6	-10.3
3	☐	5.000	4.482	135400.09	0.0800	P	7.3	-10.4
4	☐	10.000	8.994	273018.95	0.1602	P	7.5	-10.1
5	☐	100.000	93.943	2783680.06	1.6701	P	7.7	-6.1
6	☐	200.000	203.094	5888543.25	3.6102	A	5.3	1.5
7	☐	1.000						

y = 0.0178 * x + 3.7892E-004
R = 0.9994
DL = 0.01144 ppb
BEC = 0.02132 ppb

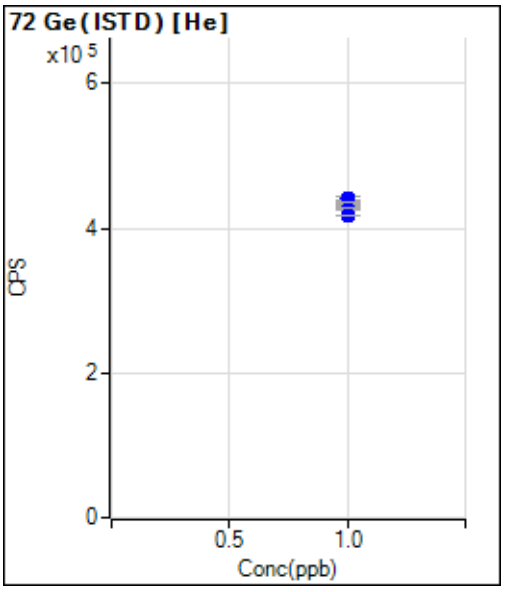
Weight: <None>
Min Conc: <None>



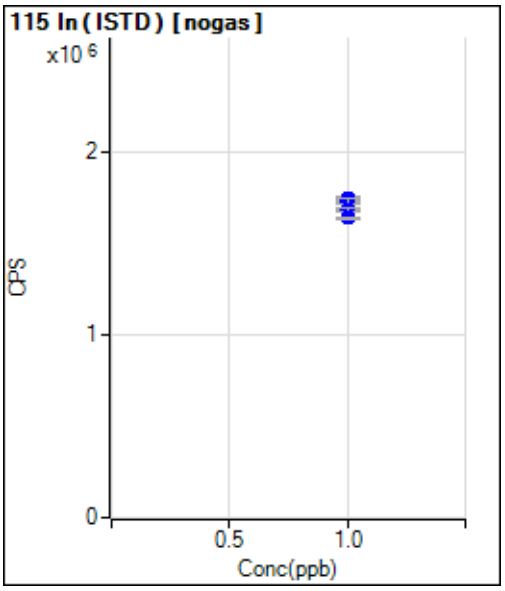
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		699034.34		P	1.2	
2	☐	1.000		733460.50		P	0.8	
3	☐	1.000		720402.58		P	0.9	
4	☐	1.000		713912.38		P	0.8	
5	☐	1.000		666404.31		P	0.9	
6	☐	1.000		619983.59		P	0.5	
7	☐	1.000						



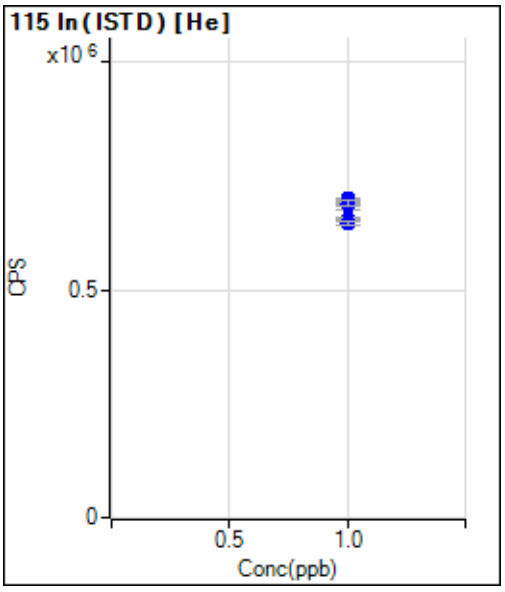
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1411661.18		P	0.9	
2	☐	1.000		1479797.90		P	0.8	
3	☐	1.000		1458344.20		P	0.7	
4	☐	1.000		1445082.95		P	1.0	
5	☐	1.000		1418305.50		P	0.3	
6	☐	1.000		1395632.64		P	0.4	
7	☐	1.000						



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		431445.49		P	0.4	
2	☐	1.000		441263.66		P	0.8	
3	☐	1.000		438525.16		P	0.6	
4	☐	1.000		435571.81		P	0.7	
5	☐	1.000		426042.18		P	0.4	
6	☐	1.000		418029.37		P	0.1	
7	☐	1.000						

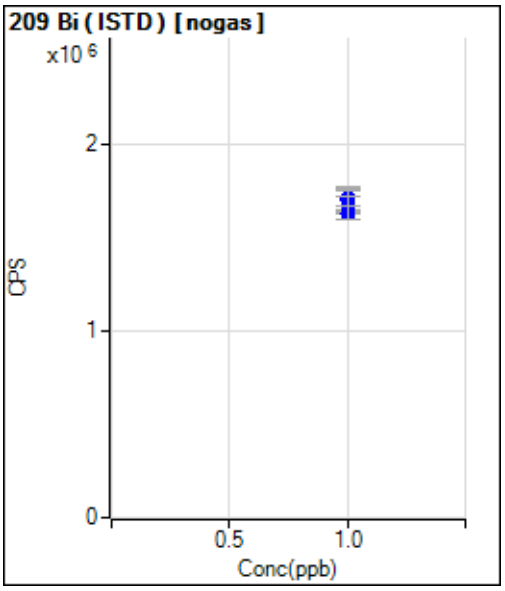


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1676050.45		P	0.6	
2	☐	1.000		1744130.85		P	1.4	
3	☐	1.000		1731832.34		P	0.8	
4	☐	1.000		1723589.46		P	1.8	
5	☐	1.000		1682496.93		P	1.0	
6	☐	1.000		1636372.93		P	0.6	
7	☐	1.000						



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		682631.42		P	1.7	
2	☐	1.000		701617.46		P	0.4	
3	☐	1.000		694798.20		P	0.3	
4	☐	1.000		690473.65		P	1.5	
5	☐	1.000		656022.74		P	0.4	
6	☐	1.000		648119.65		P	1.2	
7	☐	1.000						

Calibration for 017_ICV.d



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD	%RE
1	☐	1.000		1624905.08		P	3.2	
2	☐	1.000		1711278.88		P	7.0	
3	☐	1.000		1697002.68		P	6.8	
4	☐	1.000		1709605.71		P	6.8	
5	☐	1.000		1671467.00		P	5.6	
6	☐	1.000		1633684.09		P	4.5	
7	☐	1.000						

Low Level Continuing Calibration Verification (LLCCV) Report

Sample Table

Sample Name	LLICV2
Data File Name	019LCV2.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T12:05:34-05:00
Sample Type	LLCCV2
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	1	nogas	1.801	4.355	6421	4.23	2	90.1	70	120	
B	11	1	nogas	18.383	3.696	56738	2.63	10	183.8	70	120	NewName Main CR1 Failed
Al	27	1	nogas	-0.076	-96.676	40821	1.50	2	-3.8	70	120	NewName Main CR1 Failed
P	31	1	nogas	-939.691	-2.149	44057	1.78	10	-9396.9	70	120	NewName Main CR1 Failed
Ti	47	1	nogas	1.928	4.459	2000	3.46	2	96.4	70	120	
Ni	60	1	nogas	1.929	1.450	5735	1.26	2	96.4	70	120	
Cu	63	1	nogas	1.986	0.337	19720	1.03	2	99.3	70	120	
Zn	66	1	nogas	1.480	14.298	5298	7.97	2	74.0	70	120	
Se	77	1	nogas	-13.497	-33.445	7582	4.57	2	-674.8	70	120	NewName Main CR1 Failed
Se	82	1	nogas	2.155	15.159	560	7.14	2	107.8	70	120	
Sr	88	1	nogas	1.904	3.254	33685	1.48	2	95.2	70	120	
Mo	95	1	nogas	2.042	9.019	7912	6.57	2	102.1	70	120	
Ag	107	1	nogas	1.954	5.291	17714	3.28	2	97.7	70	120	
Cd	111	1	nogas	1.857	1.283	3228	3.12	2	92.9	70	120	
Sn	118	1	nogas	1.988	2.554	13443	1.68	2	99.4	70	120	
Sb	121	1	nogas	1.943	10.143	17811	7.84	2	97.2	70	120	
Ba	137	1	nogas	1.792	7.089	5408	5.52	2	89.6	70	120	
Tl	205	1	nogas	1.942	7.293	35677	0.90	2	97.1	70	120	
Pb	208	1	nogas	1.920	7.058	51179	2.03	2	96.0	70	120	
[Pb]	206	1	nogas	1.927	7.903	12913	2.51	2	96.3	70	120	
[Pb]	207	1	nogas	1.920	5.560	11008	1.48	2	96.0	70	120	
U	238	1	nogas	1.822	7.757	54990	1.63	2	91.1	70	120	
Li	7	1	nogas	1.866	3.989	74697	0.90	2	93.3	70	120	
Ba	135	1	nogas	1.824	7.231	3144	5.73	2	91.2	70	120	
Tl	203	1	nogas	1.964	4.368	15012	3.41	2	98.2	70	120	
Na	23	2	He	197.363	0.696	270343	0.75	200	98.7	70	120	
Mg	24	2	He	201.012	2.294	126203	2.50	200	100.5	70	120	
Al	27	2	He	0.217	295.944	1653	14.33	2	10.9	70	120	NewName Main CR1 Failed
K	39	2	He	195.489	1.275	214499	0.98	200	97.7	70	120	
Ca	43	2	He	180.487	13.150	380	11.47	200	90.2	70	120	
Ca	44	2	He	199.116	7.786	6895	7.12	200	99.6	70	120	
V	51	2	He	2.093	1.188	8357	1.06	2	104.7	70	120	
Cr	52	2	He	1.710	3.165	14641	1.69	2	85.5	70	120	
Mn	55	2	He	1.824	3.485	7219	2.75	2	91.2	70	120	
Fe	56	2	He	197.774	0.372	781017	0.35	200	98.9	70	120	
Co	59	2	He	1.937	4.967	10737	4.69	2	96.9	70	120	
Ni	60	2	He	1.901	8.627	2704	7.95	2	95.0	70	120	
Cu	63	2	He	1.964	4.611	7215	4.16	2	98.2	70	120	
Zn	66	2	He	1.637	32.935	2264	17.07	2	81.9	70	120	
As	75	2	He	1.955	6.810	1327	5.32	2	97.7	70	120	
Se	77	2	He	-1.142	-107.521	67	31.22	2	-57.1	70	120	NewName Main CR1 Failed
Sb	121	2	He	1.915	2.932	7569	2.35	2	95.8	70	120	
Se	78	2	He	2.137	9.939	172	6.98	2	106.8	70	120	
Ti	47	2	He	2.067	21.888	357	21.23	2	103.3	70	120	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1421590	0.83	1411661	100.70	70	120	
In	115	1	nogas	1714106	2.14	1676050	102.27	70	120	
Li	6	1	nogas	701794	0.21	699034	100.39	70	120	
Bi	209	1	nogas	1683649	6.55	1624905	103.62	70	120	
Ge	72	2	He	428444	0.23	431445	99.30	70	120	
In	115	2	He	688541	0.75	682631	100.87	70	120	

Low Level Continuing Calibration Verification (LLCCV) Report

Sample Table

Sample Name	LLICV5
Data File Name	020LCV5.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T12:07:40-05:00
Sample Type	LLCCV5
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	1	nogas	4.490	1.950	15853	1.02	5	89.8	70	130	
B	11	1	nogas	26.891	0.819	74804	1.06	25	107.6	70	130	
Al	27	1	nogas	2.840	7.385	68754	2.63	5	56.8	70	130	NewName Main CR1 Failed
P	31	1	nogas	-883.636	-0.886	45999	0.93	25	-3534.5	70	130	NewName Main CR1 Failed
Ti	47	1	nogas	4.912	6.072	4854	5.32	5	98.2	70	130	
Ni	60	1	nogas	4.942	5.196	13967	4.60	5	98.8	70	130	
Cu	63	1	nogas	4.885	3.400	38570	3.26	5	97.7	70	130	
Zn	66	1	nogas	4.660	0.478	11181	0.85	5	93.2	70	130	
Se	77	1	nogas	-6.117	-60.427	8292	4.11	5	-122.3	70	130	NewName Main CR1 Failed
Se	82	1	nogas	4.929	28.022	877	17.54	5	98.6	70	130	
Sr	88	1	nogas	4.812	2.341	83188	0.60	5	96.2	70	130	
Mo	95	1	nogas	4.784	4.605	18088	3.77	5	95.7	70	130	
Ag	107	1	nogas	4.884	1.325	44167	0.89	5	97.7	70	130	
Cd	111	1	nogas	4.670	4.588	8089	2.66	5	93.4	70	130	
Sn	118	1	nogas	4.841	3.684	29544	2.38	5	96.8	70	130	
Sb	121	1	nogas	4.827	2.570	40046	2.60	5	96.5	70	130	
Ba	137	1	nogas	4.697	3.423	13657	1.52	5	93.9	70	130	
Tl	205	1	nogas	4.781	7.145	88026	1.73	5	95.6	70	130	
Pb	208	1	nogas	4.847	8.018	125725	2.35	5	96.9	70	130	
U	238	1	nogas	4.477	6.606	135532	1.03	5	89.5	70	130	
Li	7	1	nogas	4.470	2.995	103384	0.69	5	89.4	70	130	
Na	23	2	He	482.615	0.413	593988	0.31	500	96.5	70	130	
Mg	24	2	He	483.144	0.828	307224	1.04	500	96.6	70	130	
Al	27	2	He	3.015	25.175	2740	10.35	5	60.3	70	130	NewName Main CR1 Failed
K	39	2	He	479.032	0.901	404701	0.53	500	95.8	70	130	
Ca	43	2	He	414.301	17.539	820	16.41	500	82.9	70	130	
Ca	44	2	He	472.071	4.102	15485	3.68	500	94.4	70	130	
V	51	2	He	5.162	8.901	20296	8.54	5	103.2	70	130	
Cr	52	2	He	4.750	4.489	27923	3.09	5	95.0	70	130	
Mn	55	2	He	4.707	2.108	16900	1.93	5	94.1	70	130	
Fe	56	2	He	489.570	1.056	1942097	0.85	500	97.9	70	130	
Co	59	2	He	4.929	0.711	27465	0.92	5	98.6	70	130	
Ni	60	2	He	5.030	2.988	6998	2.93	5	100.6	70	130	
Cu	63	2	He	4.933	1.922	17474	1.67	5	98.7	70	130	
Zn	66	2	He	4.232	1.959	4204	1.58	5	84.6	70	130	
As	75	2	He	4.878	2.306	2974	1.92	5	97.6	70	130	
Sb	121	2	He	4.749	1.887	17321	1.56	5	95.0	70	130	
Se	78	2	He	4.825	9.616	330	8.33	5	96.5	70	130	
Ti	47	2	He	4.726	25.819	810	25.21	5	94.5	70	130	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1433214	0.53	1411661	101.53	70	120	
In	115	1	nogas	1717342	1.94	1676050	102.46	70	120	
Li	6	1	nogas	699254	0.92	699034	100.03	70	120	
Bi	209	1	nogas	1699443	5.77	1624905	104.59	70	120	
Ge	72	2	He	434891	0.22	431445	100.80	70	120	
In	115	2	He	693027	0.63	682631	101.52	70	120	

Initial Calibration Blank (ICB) Report

Sample Table

Sample Name	ICB
Data File Name	022_ICB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T12:11:54-05:00
Sample Type	ICB
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	1	nogas	0.012	45.9	107	18.9	2.5	
B	11	1	nogas	1.793	2.1	21251	0.8	2.5	
Al	27	1	nogas	-1.837	-4.1	24974	2.3	5	
P	31	1	nogas	-900.407	-1.2	46451	0.9	2.5	
Ti	47	1	nogas	-0.045	-160.6	143	49.0	2.5	
Ni	60	1	nogas	0.023	135.1	617	13.5	2.5	
Cu	63	1	nogas	-0.157	-19.2	6188	3.8	2.5	
Zn	66	1	nogas	-0.156	-68.4	2380	7.7	2.5	
Se	77	1	nogas	-43.361	-9.1	5131	6.4	2.5	
Se	82	1	nogas	-0.650	-88.3	253	25.7	2.5	
Sr	88	1	nogas	0.013	14.1	1627	2.6	2.5	
Mo	95	1	nogas	-0.028	-22.6	270	7.4	2.5	
Ag	107	1	nogas	-0.001	-860.0	150	29.1	2.5	
Cd	111	1	nogas	-0.003	-388.5	19	93.2	2.5	
Sn	118	1	nogas	-0.116	-6.9	1627	3.0	2.5	
Sb	121	1	nogas	-0.211	-9.1	1493	9.5	2.5	
Ba	137	1	nogas	0.146	6.4	757	2.8	2.5	
Tl	205	1	nogas	0.002	323.8	467	16.1	2.5	
Pb	208	1	nogas	-0.053	-10.2	1680	4.5	2.5	
U	238	1	nogas	-0.005	-74.0	470	18.9	2.5	
Na	23	2	He	-5.659	-14.1	47736	1.2	100	
Mg	24	2	He	1.521	9.6	1467	6.3	100	
Al	27	2	He	-1.476	-14.6	1053	8.0	5	
K	39	2	He	0.464	551.9	90605	1.8	100	
Ca	43	2	He	-0.676	-771.7	50	20.0	100	
Ca	44	2	He	12.961	26.3	1230	9.4	100	
V	51	2	He	-0.043	-206.9	261	135.2	2.5	
Cr	52	2	He	-0.644	-6.6	4828	3.4	2.5	
Mn	55	2	He	-0.130	-12.1	853	6.8	2.5	
Fe	56	2	He	3.978	5.0	29927	3.3	100	
Co	59	2	He	-0.008	-19.8	130	7.7	2.5	
Ni	60	2	He	0.086	33.9	283	14.7	2.5	
Cu	63	2	He	-0.043	-15.8	473	5.3	2.5	
Zn	66	2	He	-0.349	-13.9	853	4.7	2.5	
As	75	2	He	-0.133	-24.7	188	9.8	2.5	
Sb	121	2	He	-0.179	-22.7	570	24.9	2.5	
Se	78	2	He	0.252	87.9	67	19.1	2.5	
Ti	47	2	He	-0.002	-1567.5	13	43.3	2.5	

Initial Calibration Blank (ICB) Report

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1462361	0.70	1411661	103.59	70	120	
In	115	1	nogas	1730375	1.63	1676050	103.24	70	120	
Li	6	1	nogas	710875	0.64	699034	101.69	70	120	
Bi	209	1	nogas	1671880	7.20	1624905	102.89	70	120	
Ge	72	2	He	442173	0.70	431445	102.49	70	120	
In	115	2	He	693377	0.16	682631	101.57	70	120	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSA
Data File Name	023ICSA.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T12:14:00-05:00
Sample Type	ICSA
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	1	nogas	0.023	70.981	132	40.25	2	1.2	100	50	
B	11	1	nogas	2.756	11.411	21103	3.15	20	13.8	100	50	ICSA Main CR1 Failed
Al	27	1	nogas	96138.944	1.439	872974947	0.94	10	961389.4	100	0	
P	31	1	nogas	1760971.783	0.761	47757111	0.68	20	8804858.9	100	50	ICSA Main CR1 FailedICSA Main CR2 Failed
Ti	47	1	nogas	2057.168	1.527	1877150	1.35	5	41143.4	100	50	ICSA Main CR1 Failed
Ni	60	1	nogas	2.166	4.172	6165	3.85	5	43.3	100	50	
Cu	63	1	nogas	2.214	17.658	20468	11.37	2	110.7	100	50	
Zn	66	1	nogas	3.346	4.545	8409	3.74	5	66.9	100	50	ICSA Main CR1 Failed
Se	77	1	nogas	5.662	24.691	8943	0.96	5	113.2	100	50	ICSA Main CR1 Failed
Se	82	1	nogas	-0.448	-84.121	260	15.38	2	-22.4	100	50	
Sr	88	1	nogas	0.864	2.716	14541	1.04	5	17.3	100	50	
Mo	95	1	nogas	1994.766	3.108	6675697	1.46	5	39895.3	100	50	ICSA Main CR1 Failed
Ag	107	1	nogas	0.040	26.793	467	17.32	5	0.8	100	50	
Cd	111	1	nogas	0.817	26.789	1294	25.14	2	40.8	100	50	
Sn	118	1	nogas	0.017	79.532	2137	3.54	10	0.2	100	50	
Sb	121	1	nogas	-0.019	-160.794	2817	7.86	4	-0.5	100	50	
Ba	137	1	nogas	0.307	18.306	1090	11.71	5	6.1	100	50	
Tl	205	1	nogas	0.012	54.879	587	18.70	2	0.6	100	50	
Pb	208	1	nogas	0.895	8.886	22924	3.46	5	17.9	100	50	
U	238	1	nogas	-0.003	-63.322	480	7.51	5	-0.1	0	50	
Li	7	1	nogas	0.318	9.003	52555	0.56		#DIV/0!	0	50	
Ba	135	1	nogas	0.304	12.267	613	8.98		#DIV/0!	0	50	
Tl	203	1	nogas	0.011	79.756	280	17.86		#DIV/0!	0	50	
Na	23	2	He	99325.957	0.665	106136125	0.38	200	49663.0	100	0	
Mg	24	2	He	96863.112	0.543	58627606	0.31	200	48431.6	100	0	
Al	27	2	He	98723.015	0.541	35719060	0.77	10	987230.2	100	0	
K	39	2	He	98780.470	0.275	62185854	0.66	200	49390.2	100	0	
Ca	43	2	He	94330.092	1.022	167105	0.60	200	47165.0	100	0	
Ca	44	2	He	96288.708	0.154	2855210	0.44	200	48144.4	100	0	
V	51	2	He	0.553	11.631	2433	10.07	5	11.1	100	50	
Cr	52	2	He	0.744	10.766	10210	3.05	5	14.9	100	50	
Mn	55	2	He	1.224	2.507	5084	2.09	5	24.5	100	50	
Fe	56	2	He	97604.968	0.728	366521888	0.31	200	48802.5	100	50	ICSA Main CR1 Failed
Co	59	2	He	1.048	5.640	5695	5.08	5	21.0	100	50	
Ni	60	2	He	1.144	8.270	1637	7.64	5	22.9	100	50	
Cu	63	2	He	0.715	2.730	2914	2.60	2	35.8	100	50	
Zn	66	2	He	2.411	15.597	2734	10.06	5	48.2	100	50	
As	75	2	He	0.390	16.671	453	7.64	5	7.8	100	50	
Sb	121	2	He	0.045	110.235	1260	12.60	4	1.1	100	50	
Se	78	2	He	0.447	54.589	73	18.56	2	22.3	100	50	
Ti	47	2	He	1993.892	0.809	320538	1.01	5	39877.8	100	50	ICSA Main CR1 Failed
Cr	52	1	nogas	0.277	21.030	29021	2.08		#DIV/0!	0	50	
Mn	55	1	nogas	0.774	3.523	21349	1.69		#DIV/0!	0	50	
Co	59	1	nogas	1.062	5.426	13006	4.82		#DIV/0!	0	50	
V	51	1	nogas	1.098	17.132	7264	34.56		#DIV/0!	0	50	
Fe	56	1	nogas	96708.781	0.770	1205820622	0.85		#DIV/0!	0	50	ICSA Main CR1 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1374705	0.56	1411661	97.38	70	120	
In	115	1	nogas	1551947	1.68	1676050	92.60	70	120	
Li	6	1	nogas	642340	0.22	699034	91.89	70	120	
Bi	209	1	nogas	1514714	5.49	1624905	93.22	70	120	
Ge	72	2	He	414598	0.43	431445	96.10	70	120	
In	115	2	He	616277	1.01	682631	90.28	70	120	

Interference Check Solution AB (ICS-AB) Report

Sample Table

Sample Name	ICSAB
Data File Name	024ICSB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T12:16:04-05:00
Sample Type	ICSB
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High	QC Flag
Be	9	1	nogas	93.486	1.456	294838	1.13	100	93.5	80	120	
B	11	1	nogas	502.531	2.284	982703	1.92	100	502.5	80	120	ICSB Main CR1 Failed
Al	27	1	nogas	98787.433	0.982	922824946	1.19	100100	98.7	80	120	
Ti	47	1	nogas	2273.600	0.992	2134258	1.24	2100	108.3	80	120	
Ni	60	1	nogas	95.425	2.036	256366	2.13	100	95.4	80	120	
Cu	63	1	nogas	97.473	1.390	627087	1.70	100	97.5	80	120	
Zn	66	1	nogas	102.032	2.072	187548	2.37	100	102.0	80	120	
Se	77	1	nogas	141.780	9.949	20965	6.01	100	141.8	80	120	ICSB Main CR1 Failed
Se	82	1	nogas	106.223	4.145	12125	4.27	100	106.2	80	120	
Sr	88	1	nogas	109.584	2.480	1697854	1.64	100	109.6	80	120	
Mo	95	1	nogas	2207.226	1.325	7445962	0.55	2100	105.1	80	120	
Ag	107	1	nogas	109.571	2.013	899408	1.26	100	109.6	80	120	
Cd	111	1	nogas	104.022	1.637	163719	0.87	100	104.0	80	120	
Sn	118	1	nogas	105.852	2.589	545257	1.65	100	105.9	80	120	
Sb	121	1	nogas	100.368	0.753	761434	1.08	100	100.4	80	120	
Ba	137	1	nogas	106.657	2.266	275809	1.33	100	106.7	80	120	
Tl	205	1	nogas	103.533	5.779	1713679	2.11	100	103.5	80	120	
Pb	208	1	nogas	105.392	5.787	2412690	2.10	100	105.4	80	120	
U	238	1	nogas	102.011	6.321	2775931	2.65	100	102.0	80	120	
Li	7	1	nogas	99.540	1.254	1040669	0.87	100	99.5	80	120	
Na	23	2	He	115507.004	0.848	124421575	0.38	110000	105.0	80	120	
Mg	24	2	He	112713.047	0.532	68776854	0.65	110000	102.5	80	120	
Al	27	2	He	104171.599	1.045	37995937	0.72	100100	104.1	80	120	
K	39	2	He	114456.704	1.286	72623852	0.73	110000	104.1	80	120	
Ca	43	2	He	111407.881	1.107	198957	0.85	110000	101.3	80	120	
Ca	44	2	He	118316.605	1.047	3536827	1.33	110000	107.6	80	120	
V	51	2	He	101.930	0.974	377608	0.75	100	101.9	80	120	
Cr	52	2	He	100.059	1.957	420456	1.81	100	100.1	80	120	
Mn	55	2	He	102.472	1.019	328224	1.62	100	102.5	80	120	
Fe	56	2	He	112785.147	0.543	426973207	0.24	110000	102.5	80	120	
Co	59	2	He	98.090	1.481	522059	0.79	100	98.1	80	120	
Ni	60	2	He	95.699	1.560	125161	1.06	100	95.7	80	120	
Cu	63	2	He	96.032	0.289	316077	1.00	100	96.0	80	120	
Zn	66	2	He	102.905	0.100	73697	0.83	100	102.9	80	120	
As	75	2	He	104.928	2.146	56381	1.55	100	104.9	80	120	
Sb	121	2	He	100.350	0.138	329126	0.79	100	100.3	80	120	
Se	78	2	He	107.089	2.399	5999	1.72	100	107.1	80	120	
Ti	47	2	He	2206.536	0.452	357605	0.55	100	2206.5	80	120	ICSB Main CR1 Failed

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1414163	0.43	1411661	100.18	70	120	
In	115	1	nogas	1563981	0.96	1676050	93.31	70	120	
Li	6	1	nogas	626839	0.33	699034	89.67	70	120	
Bi	209	1	nogas	1533128	3.82	1624905	94.35	70	120	
Ge	72	2	He	417978	0.76	431445	96.88	70	120	
In	115	2	He	625083	0.53	682631	91.57	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	027_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T12:25:17-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	1	nogas	94.596	1.567	319171	0.47	100	94.6	90	110	
B	11	1	nogas	465.810	1.927	975688	0.80	500	93.2	90	110	
Al	27	1	nogas	100.401	0.563	1023240	0.82	100	100.4	90	110	
P	31	1	nogas	187.157	19.536	78601	1.04	500	37.4	90	110	CCV Main CR1-2 Failed
Ti	47	1	nogas	99.009	1.771	97301	1.67	100	99.0	90	110	
Ni	60	1	nogas	98.913	0.887	277678	1.18	100	98.9	90	110	
Cu	63	1	nogas	98.980	0.458	665303	0.61	100	99.0	90	110	
Zn	66	1	nogas	98.783	0.553	189823	0.32	100	98.8	90	110	
Se	77	1	nogas	98.794	2.555	18025	1.06	100	98.8	90	110	
Se	82	1	nogas	99.121	2.679	11845	2.50	100	99.1	90	110	
Sr	88	1	nogas	99.807	1.844	1722383	0.94	100	99.8	90	110	
Mo	95	1	nogas	97.812	1.735	367831	0.80	100	97.8	90	110	
Ag	107	1	nogas	98.394	1.185	899560	0.84	100	98.4	90	110	
Cd	111	1	nogas	97.295	1.596	170553	1.44	100	97.3	90	110	
Sn	118	1	nogas	97.957	2.759	562116	1.58	100	98.0	90	110	
Sb	121	1	nogas	97.257	0.802	771138	1.06	100	97.3	90	110	
Ba	137	1	nogas	96.892	3.080	279053	1.95	100	96.9	90	110	
Tl	205	1	nogas	98.333	6.869	1827325	1.53	100	98.3	90	110	
Pb	208	1	nogas	98.458	6.445	2531113	1.10	100	98.5	90	110	
U	238	1	nogas	92.903	6.504	2839100	1.23	100	92.9	90	110	
Li	7	1	nogas	93.959	0.973	1053857	0.63	100	94.0	90	110	
Ba	135	1	nogas	97.968	2.191	161807	1.08	100	98.0	90	110	
Tl	203	1	nogas	97.491	7.279	750412	1.96	100	97.5	90	110	
Na	23	2	He	9903.856	0.331	11308056	1.13	10000	99.0	90	110	
Mg	24	2	He	9932.215	1.745	6396858	2.61	10000	99.3	90	110	
Al	27	2	He	101.009	3.859	40487	2.42	100	101.0	90	110	
K	39	2	He	9973.576	0.980	6760518	0.61	10000	99.7	90	110	
Ca	43	2	He	9724.805	1.471	18375	1.78	10000	97.2	90	110	
Ca	44	2	He	9959.617	1.513	314937	1.89	10000	99.6	90	110	
V	51	2	He	97.212	0.865	380062	0.74	100	97.2	90	110	
Cr	52	2	He	98.236	1.879	435719	0.58	100	98.2	90	110	
Mn	55	2	He	99.912	1.348	337725	1.08	100	99.9	90	110	
Fe	56	2	He	10025.145	1.005	40062615	0.56	10000	100.3	90	110	
Co	59	2	He	99.347	0.979	557996	0.68	100	99.3	90	110	
Ni	60	2	He	99.760	0.798	137682	0.63	100	99.8	90	110	
Cu	63	2	He	99.328	1.178	344963	1.05	100	99.3	90	110	
Zn	66	2	He	97.917	1.426	74056	1.69	100	97.9	90	110	
As	75	2	He	97.568	1.153	55346	0.94	100	97.6	90	110	
Sb	121	2	He	96.594	0.896	334352	0.54	100	96.6	90	110	
Se	78	2	He	98.870	2.769	5848	1.53	100	98.9	90	110	
Ti	47	2	He	98.941	2.639	16940	4.02	100	98.9	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1477802	0.31	1411661	104.69	70	120	
In	115	1	nogas	1741841	1.19	1676050	103.93	70	120	
Li	6	1	nogas	670666	1.12	699034	95.94	70	120	
Bi	209	1	nogas	1723061	5.53	1624905	106.04	70	120	
Ge	72	2	He	441104	1.38	431445	102.24	70	120	
In	115	2	He	681765	0.66	682631	99.87	70	120	

Sample Report

Sample Table

Sample Name	MBLK-213517
Data File Name	033SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T12:37:55-05:00
Sample Type	Sample
Dilution	1
Comment	TWDOD 213517
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	1	nogas	0.002	0.002	341.84	68	0.00	2000	
B	11	1	nogas	0.464	0.464	55.33	18191	0.00	2000	
Al	27	1	nogas	1.576	1.576	13.06	58829	0.00	2000	
Ti	47	1	nogas	0.035	0.035	96.04	223	0.02	2000	
Ni	60	1	nogas	0.030	0.030	182.99	647	0.00	2000	
Cu	63	1	nogas	-0.013	-0.013	-393.51	7239	0.00	2000	
Zn	66	1	nogas	-0.244	-0.244	-34.79	2250	-0.01	2000	
Se	77	1	nogas	21.908	21.908	11.08	11131	0.20	2000	
Se	82	1	nogas	-0.284	-0.284	-182.75	300	-0.09	2000	
Sr	88	1	nogas	-0.003	-0.003	-395.59	1410	0.00	2000	
Mo	95	1	nogas	0.094	0.094	3.89	750	0.01	2000	
Ag	107	1	nogas	-0.003	-0.003	-69.32	130	0.00	2000	
Cd	111	1	nogas	-0.016	-0.016	-42.79	-4	0.37	2000	
Sn	118	1	nogas	0.019	0.019	111.04	2477	0.00	2000	
Sb	121	1	nogas	-0.211	-0.211	-6.53	1517	-0.01	2000	
Ba	137	1	nogas	0.051	0.051	65.46	503	0.01	2000	
Tl	205	1	nogas	-0.005	-0.005	-86.97	353	0.00	2000	
Pb	208	1	nogas	-0.057	-0.057	-7.58	1610	0.00	2000	
U	238	1	nogas	-0.009	-0.009	-27.82	380	0.00	2000	
Na	23	2	He	-3.574	-3.574	-18.04	51426	-0.01	200000	
Mg	24	2	He	1.418	1.418	25.94	1437	0.10	200000	
Al	27	2	He	1.721	1.721	23.68	2347	0.07	2000	
K	39	2	He	4.260	4.260	47.95	95601	0.00	200000	
Ca	43	2	He	-4.865	-4.865	-261.16	43	-11.23	200000	
Ca	44	2	He	7.259	7.259	33.51	1077	0.67	200000	
V	51	2	He	-0.703	-0.703	-29.66	-2381	0.03	2000	
Cr	52	2	He	-0.140	-0.140	-32.54	7212	0.00	2000	
Mn	55	2	He	-0.061	-0.061	-83.22	1113	-0.01	2000	
Fe	56	2	He	1.532	1.532	4.15	20658	0.01	200000	
Co	59	2	He	-0.013	-0.013	-48.60	110	-0.01	2000	
Ni	60	2	He	0.027	0.027	146.23	207	0.01	2000	
Cu	63	2	He	0.043	0.043	55.34	793	0.01	2000	
Zn	66	2	He	-0.347	-0.347	-39.16	877	-0.04	2000	
As	75	2	He	0.044	0.044	70.24	296	0.01	2000	
Sb	121	2	He	-0.142	-0.142	-5.98	717	-0.02	2000	
Se	78	2	He	0.255	0.255	81.50	69	0.37	2000	
Ti	47	2	He	-0.004	-0.004	-750.11	13	-0.03	200	

QC ISTD Table

Sample Report

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1484515	0.31	1411661	105.16	70	120	
In	115	1	nogas	1791012	0.69	1676050	106.86	70	120	
Li	6	1	nogas	704821	0.60	699034	100.83	70	120	
Bi	209	1	nogas	1701175	3.49	1624905	104.69	70	120	
Ge	72	2	He	453782	1.17	431445	105.18	70	120	
In	115	2	He	714925	0.50	682631	104.73	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	039_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T12:50:35-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	1	nogas	92.920	1.541	313748	1.39	100	92.9	90	110	
B	11	1	nogas	488.334	1.749	1022847	1.51	500	97.7	90	110	
Al	27	1	nogas	98.888	0.899	1012119	1.57	100	98.9	90	110	
P	31	1	nogas	85.413	41.889	75918	2.11	500	17.1	90	110	CCV Main CR1-2 Failed
Ti	47	1	nogas	99.042	2.159	97693	2.80	100	99.0	90	110	
Ni	60	1	nogas	98.569	0.168	277702	0.72	100	98.6	90	110	
Cu	63	1	nogas	98.750	0.773	666179	1.46	100	98.7	90	110	
Zn	66	1	nogas	98.689	1.479	190341	2.19	100	98.7	90	110	
Se	77	1	nogas	99.740	4.899	18175	2.37	100	99.7	90	110	
Se	82	1	nogas	101.941	3.685	12219	4.30	100	101.9	90	110	
Sr	88	1	nogas	98.617	1.962	1733133	1.00	100	98.6	90	110	
Mo	95	1	nogas	97.497	1.675	373388	0.68	100	97.5	90	110	
Ag	107	1	nogas	98.163	1.917	913883	0.92	100	98.2	90	110	
Cd	111	1	nogas	98.464	3.621	175745	2.75	100	98.5	90	110	
Sn	118	1	nogas	98.760	2.049	577163	1.09	100	98.8	90	110	
Sb	121	1	nogas	100.889	1.286	802723	2.00	100	100.9	90	110	
Ba	137	1	nogas	99.621	3.415	292186	2.54	100	99.6	90	110	
Tl	205	1	nogas	98.817	6.494	1888342	2.01	100	98.8	90	110	
Pb	208	1	nogas	99.615	6.441	2633008	1.99	100	99.6	90	110	
U	238	1	nogas	97.770	5.875	3072632	1.37	100	97.8	90	110	
Li	7	1	nogas	93.330	0.287	1047867	0.18	100	93.3	90	110	
Ba	135	1	nogas	97.883	2.112	164643	1.26	100	97.9	90	110	
Tl	203	1	nogas	99.158	6.885	784884	2.38	100	99.2	90	110	
Na	23	2	He	9858.500	0.431	11274486	0.28	10000	98.6	90	110	
Mg	24	2	He	9877.545	0.327	6371275	0.42	10000	98.8	90	110	
Al	27	2	He	96.111	1.776	38676	1.74	100	96.1	90	110	
K	39	2	He	9868.404	1.226	6701340	1.33	10000	98.7	90	110	
Ca	43	2	He	9785.087	1.964	18518	2.08	10000	97.9	90	110	
Ca	44	2	He	9765.040	1.014	309289	0.86	10000	97.7	90	110	
V	51	2	He	98.208	0.486	384588	0.62	100	98.2	90	110	
Cr	52	2	He	98.608	0.542	438100	0.44	100	98.6	90	110	
Mn	55	2	He	99.505	1.650	336913	1.64	100	99.5	90	110	
Fe	56	2	He	10023.863	0.764	40123776	0.58	10000	100.2	90	110	
Co	59	2	He	100.137	0.888	563358	0.77	100	100.1	90	110	
Ni	60	2	He	99.411	0.676	137426	0.49	100	99.4	90	110	
Cu	63	2	He	100.104	0.741	348225	0.78	100	100.1	90	110	
Zn	66	2	He	97.984	1.470	74224	1.27	100	98.0	90	110	
As	75	2	He	97.837	1.101	55589	0.99	100	97.8	90	110	
Sb	121	2	He	98.168	1.008	340343	0.85	100	98.2	90	110	
Se	78	2	He	96.736	1.566	5733	1.57	100	96.7	90	110	
Ti	47	2	He	97.683	3.008	16746	2.82	100	97.7	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1483105	0.74	1411661	105.06	70	120	
In	115	1	nogas	1773841	1.00	1676050	105.83	70	120	
Li	6	1	nogas	671093	0.22	699034	96.00	70	120	
Bi	209	1	nogas	1770987	4.70	1624905	108.99	70	120	
Ge	72	2	He	441800	0.19	431445	102.40	70	120	
In	115	2	He	686948	1.55	682631	100.63	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	040_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T12:52:40-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	1	nogas	0.079	46.9	345	39.5	2.5	
B	11	1	nogas	31.165	8.7	85014	7.5	2.5	CCB Main CR1 Failed
Al	27	1	nogas	-2.761	-2.8	16275	4.7	5	
P	31	1	nogas	-852.135	-1.0	48501	0.7	2.5	
Ti	47	1	nogas	0.154	64.0	340	28.4	2.5	
Ni	60	1	nogas	0.101	16.0	843	5.5	2.5	
Cu	63	1	nogas	-0.025	-96.3	7149	2.1	5	
Zn	66	1	nogas	-0.382	-5.1	1983	2.0	2.5	
Se	77	1	nogas	-42.240	-2.1	5304	1.4	2.5	
Se	82	1	nogas	0.377	148.0	377	17.3	5	
Sr	88	1	nogas	0.002	769.0	1493	18.4	2.5	
Mo	95	1	nogas	0.699	27.7	3097	25.8	2.5	
Ag	107	1	nogas	0.042	33.6	557	24.5	2.5	
Cd	111	1	nogas	0.045	151.7	107	116.1	2.5	
Sn	118	1	nogas	0.546	16.4	5585	10.8	2.5	
Sb	121	1	nogas	0.764	16.2	9243	10.6	2.5	
Ba	137	1	nogas	0.015	149.9	397	16.8	2.5	
Tl	205	1	nogas	0.649	44.2	13018	50.3	2.5	
Pb	208	1	nogas	0.000	9124.7	3197	24.6	2.5	
U	238	1	nogas	0.064	37.6	2690	36.1	2.5	
Na	23	2	He	75.964	168.1	143310	103.6	100	
Mg	24	2	He	2.809	20.6	2337	16.5	100	
Al	27	2	He	-2.796	-12.2	553	24.5	5	
K	39	2	He	6.211	41.6	96034	2.1	100	
Ca	43	2	He	-14.995	-19.8	23	24.7	100	
Ca	44	2	He	-5.289	-48.5	663	12.2	100	
V	51	2	He	0.045	466.4	616	134.8	2.5	
Cr	52	2	He	-0.840	-8.3	4037	7.4	2.5	
Mn	55	2	He	-0.119	-6.7	903	2.8	2.5	
Fe	56	2	He	4.653	15.1	33174	8.9	100	
Co	59	2	He	0.017	27.0	280	9.4	2.5	
Ni	60	2	He	0.112	62.1	323	30.0	2.5	
Cu	63	2	He	0.060	38.9	843	9.5	5	
Zn	66	2	He	-0.543	-4.5	720	2.4	2.5	
As	75	2	He	0.009	641.5	272	11.4	2.5	
Sb	121	2	He	0.554	7.1	3157	4.1	2.5	
Se	78	2	He	0.590	35.1	88	13.8	5	
Ti	47	2	He	0.016	208.6	17	34.6	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1482494	0.18	1411661	105.02	70	120	
In	115	1	nogas	1792722	1.44	1676050	106.96	70	120	
Li	6	1	nogas	707671	1.02	699034	101.24	70	120	

Continuing Calibration Blank (CCB) Report

Bi	209	1	nogas	1753909	7.27	1624905	107.94	70	120	
Ge	72	2	He	449522	0.26	431445	104.19	70	120	
In	115	2	He	710520	0.54	682631	104.09	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	052_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T13:24:07-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	1	nogas	92.358	1.125	273393	0.40	100	92.4	90	110	
B	11	1	nogas	453.061	2.151	832941	1.40	500	90.6	90	110	
Al	27	1	nogas	91.497	0.564	862339	0.84	100	91.5	90	110	
P	31	1	nogas	121.641	40.060	70632	1.46	500	24.3	90	110	CCV Main CR1-2 Failed
Ti	47	1	nogas	98.601	2.388	89245	2.35	100	98.6	90	110	
Ni	60	1	nogas	97.058	0.445	250953	1.12	100	97.1	90	110	
Cu	63	1	nogas	97.946	1.077	606446	1.77	100	97.9	90	110	
Zn	66	1	nogas	98.847	1.433	174952	2.13	100	98.8	90	110	
Se	77	1	nogas	61.577	6.841	13506	3.13	100	61.6	90	110	CCV Main CR1-2 Failed
Se	82	1	nogas	99.060	2.907	10904	3.53	100	99.1	90	110	
Sr	88	1	nogas	96.892	2.339	1597164	1.39	100	96.9	90	110	
Mo	95	1	nogas	95.789	2.182	344089	1.36	100	95.8	90	110	
Ag	107	1	nogas	96.517	2.154	842803	1.21	100	96.5	90	110	
Cd	111	1	nogas	96.222	2.398	161099	1.55	100	96.2	90	110	
Sn	118	1	nogas	99.376	2.643	544704	1.78	100	99.4	90	110	
Sb	121	1	nogas	101.450	1.267	740734	1.90	100	101.5	90	110	
Ba	137	1	nogas	98.127	2.892	269956	1.94	100	98.1	90	110	
Tl	205	1	nogas	98.207	6.981	1799630	2.41	100	98.2	90	110	
Pb	208	1	nogas	97.640	7.058	2474716	2.35	100	97.6	90	110	
U	238	1	nogas	94.034	7.353	2832865	2.52	100	94.0	90	110	
Li	7	1	nogas	91.889	0.838	905166	0.37	100	91.9	90	110	
Ba	135	1	nogas	97.612	3.910	153983	3.00	100	97.6	90	110	
Tl	203	1	nogas	99.179	7.236	752828	2.55	100	99.2	90	110	
Na	23	2	He	10141.958	0.995	10626735	1.66	10000	101.4	90	110	
Mg	24	2	He	10148.595	1.035	5997835	0.61	10000	101.5	90	110	
Al	27	2	He	91.323	0.774	33747	1.36	100	91.3	90	110	
K	39	2	He	10430.219	1.499	6484676	0.75	10000	104.3	90	110	
Ca	43	2	He	9712.610	1.969	16843	2.28	10000	97.1	90	110	
Ca	44	2	He	9592.574	0.977	278394	0.07	10000	95.9	90	110	
V	51	2	He	97.012	0.926	348090	0.54	100	97.0	90	110	
Cr	52	2	He	98.033	0.938	399119	0.96	100	98.0	90	110	
Mn	55	2	He	98.546	0.858	305742	0.99	100	98.5	90	110	
Fe	56	2	He	10908.621	1.084	40007159	0.51	10000	109.1	90	110	
Co	59	2	He	99.129	0.702	510991	0.26	100	99.1	90	110	
Ni	60	2	He	98.885	0.139	125258	0.82	100	98.9	90	110	
Cu	63	2	He	100.954	0.420	321775	0.68	100	101.0	90	110	
Zn	66	2	He	97.941	1.426	67977	0.62	100	97.9	90	110	
As	75	2	He	98.575	1.830	51317	1.75	100	98.6	90	110	
Sb	121	2	He	101.516	0.565	322456	1.15	100	101.5	90	110	
Se	78	2	He	97.652	0.826	5302	0.26	100	97.7	90	110	
Ti	47	2	He	98.940	0.710	15542	0.30	100	98.9	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1361053	0.72	1411661	96.41	70	120	
In	115	1	nogas	1663781	0.96	1676050	99.27	70	120	
Li	6	1	nogas	588355	0.72	699034	84.17	70	120	
Bi	209	1	nogas	1698739	5.06	1624905	104.54	70	120	
Ge	72	2	He	404819	0.93	431445	93.83	70	120	
In	115	2	He	643483	0.79	682631	94.27	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	053_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T13:26:12-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	1	nogas	0.162	15.4	563	14.4	2.5	
B	11	1	nogas	13.818	17.2	41673	11.3	2.5	CCB Main CR1 Failed
Al	27	1	nogas	-2.736	-2.9	15308	5.4	5	
P	31	1	nogas	-801.234	-6.1	46304	2.4	2.5	
Ti	47	1	nogas	0.166	78.3	327	36.5	2.5	
Ni	60	1	nogas	0.080	53.9	727	14.7	2.5	
Cu	63	1	nogas	0.079	47.1	7269	2.9	5	
Zn	66	1	nogas	-0.451	-24.5	1717	11.8	2.5	
Se	77	1	nogas	-63.619	-2.3	3120	4.7	2.5	
Se	82	1	nogas	0.111	310.2	320	10.8	5	
Sr	88	1	nogas	0.011	117.1	1563	14.6	2.5	
Mo	95	1	nogas	0.915	19.7	3731	19.0	2.5	
Ag	107	1	nogas	0.149	7.1	1480	5.3	2.5	
Cd	111	1	nogas	0.014	47.2	47	23.0	2.5	
Sn	118	1	nogas	1.312	10.3	9577	9.1	2.5	
Sb	121	1	nogas	1.777	8.3	16002	7.6	2.5	
Ba	137	1	nogas	0.005	1261.2	350	51.5	2.5	
Tl	205	1	nogas	0.382	28.8	7532	33.6	2.5	
Pb	208	1	nogas	0.047	35.2	4270	16.5	2.5	
U	238	1	nogas	0.076	40.0	2964	37.7	2.5	
Na	23	2	He	8.285	12.7	59934	2.3	100	
Mg	24	2	He	3.426	6.4	2540	5.6	100	
Al	27	2	He	-2.335	-2.3	680	2.5	5	
K	39	2	He	11.104	9.1	92069	1.1	100	
Ca	43	2	He	-19.645	-33.0	13	86.6	100	
Ca	44	2	He	-4.992	-62.7	623	14.6	100	
V	51	2	He	-0.082	-276.6	106	788.9	2.5	
Cr	52	2	He	-0.902	-7.2	3484	7.9	2.5	
Mn	55	2	He	-0.136	-10.8	783	5.9	2.5	
Fe	56	2	He	10.849	4.2	54111	3.5	100	
Co	59	2	He	0.019	64.4	267	24.4	2.5	
Ni	60	2	He	0.032	34.8	197	7.8	2.5	
Cu	63	2	He	0.071	95.4	820	27.6	5	
Zn	66	2	He	-0.610	-11.9	620	8.5	2.5	
As	75	2	He	0.092	51.6	297	8.1	2.5	
Sb	121	2	He	1.488	1.4	5968	1.6	2.5	
Se	78	2	He	0.863	23.7	97	11.4	5	
Ti	47	2	He	0.249	136.1	53	103.3	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1373400	0.87	1411661	97.29	70	120	
In	115	1	nogas	1701082	1.21	1676050	101.49	70	120	
Li	6	1	nogas	623451	0.50	699034	89.19	70	120	

Continuing Calibration Blank (CCB) Report

Bi	209	1	nogas	1696826	6.43	1624905	104.43	70	120	
Ge	72	2	He	416506	0.45	431445	96.54	70	120	
In	115	2	He	664551	0.17	682631	97.35	70	120	

Sample Report

Sample Table

Sample Name	HS24060434-09
Data File Name	054SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T13:28:18-05:00
Sample Type	Sample
Dilution	1
Comment	TWDOD 213517
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	1	nogas	0.106	0.106	20.15	380	0.03	2000	
B	11	1	nogas	23.156	23.156	2.17	58456	0.04	2000	
Al	27	1	nogas	18.992	18.992	0.71	210901	0.01	2000	
Ti	47	1	nogas	3.414	3.414	2.20	3264	0.10	2000	
Ni	60	1	nogas	135.381	135.381	1.41	350522	0.04	2000	
Cu	63	1	nogas	6.178	6.178	2.32	44633	0.01	2000	
Zn	66	1	nogas	11.755	11.755	1.96	23041	0.05	2000	
Se	77	1	nogas	15.660	15.660	22.12	9707	0.16	2000	
Se	82	1	nogas	1.342	1.342	29.69	450	0.30	2000	
Sr	88	1	nogas	448.213	448.213	1.25	7291096	0.01	2000	
Mo	95	1	nogas	19.604	19.604	2.54	69826	0.03	2000	
Ag	107	1	nogas	0.227	0.227	17.04	2104	0.01	2000	
Cd	111	1	nogas	0.269	0.269	7.88	467	0.06	2000	
Sn	118	1	nogas	1.783	1.783	2.67	11778	0.02	2000	
Sb	121	1	nogas	1.195	1.195	6.36	11635	0.01	2000	
Ba	137	1	nogas	315.529	315.529	1.35	856507	0.04	2000	
Tl	205	1	nogas	0.120	0.120	2.39	2557	0.00	2000	
Pb	208	1	nogas	0.123	0.123	21.22	5944	0.00	2000	
U	238	1	nogas	0.087	0.087	9.32	3164	0.00	2000	
Na	23	2	He	69478.770	69478.770	1.64	76022274	0.09	200000	
Mg	24	2	He	14203.730	14203.730	0.63	8801454	0.16	200000	
Al	27	2	He	19.641	19.641	1.28	8833	0.22	2000	
K	39	2	He	2278.463	2278.463	0.33	1553064	0.15	200000	
Ca	43	2	He	17844.541	17844.541	3.08	32401	55.07	200000	
Ca	44	2	He	17688.724	17688.724	0.96	537593	3.29	200000	
V	51	2	He	-2.788	-2.788	-33.79	-10070	0.03	2000	
Cr	52	2	He	116.214	116.214	0.46	494715	0.02	2000	
Mn	55	2	He	129.120	129.120	0.36	419636	0.03	2000	
Fe	56	2	He	1169.546	1169.546	0.70	4509392	0.03	200000	
Co	59	2	He	1.942	1.942	2.79	10661	0.02	2000	
Ni	60	2	He	136.814	136.814	0.65	181643	0.08	2000	
Cu	63	2	He	5.888	5.888	1.50	20237	0.03	2000	
Zn	66	2	He	11.528	11.528	3.65	9333	0.12	2000	
As	75	2	He	0.439	0.439	30.10	491	0.09	2000	
Sb	121	2	He	1.111	1.111	4.07	4828	0.02	2000	
Se	78	2	He	1.480	1.480	9.02	133	1.11	2000	
Ti	47	2	He	2.513	2.513	22.79	427	0.59	200	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1363536	1.59	1411661	96.59	70	120	
In	115	1	nogas	1642646	0.75	1676050	98.01	70	120	
Li	6	1	nogas	612098	0.52	699034	87.56	70	120	
Bi	209	1	nogas	1638952	4.12	1624905	100.86	70	120	

Sample Report

Ge	72	2	He	424434	0.27	431445	98.37	70	120	
In	115	2	He	669542	1.05	682631	98.08	70	120	

Sample Report

Sample Table

Sample Name	HS24060434-09SD
Data File Name	055SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T13:30:24-05:00
Sample Type	Sample
Dilution	5
Comment	TWDOD 213517
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	1	nogas	0.082	0.410	15.41	327	0.03	2000	
B	11	1	nogas	5.311	26.553	3.95	26531	0.02	2000	
Al	27	1	nogas	2.659	13.293	2.19	68586	0.00	2000	
Ti	47	1	nogas	0.593	2.963	26.80	763	0.08	2000	
Ni	60	1	nogas	28.058	140.292	1.86	78538	0.04	2000	
Cu	63	1	nogas	1.309	6.543	4.16	15865	0.01	2000	
Zn	66	1	nogas	2.477	12.384	8.75	7332	0.03	2000	
Se	77	1	nogas	-19.825	-99.125	-26.73	7252	-0.27	2000	
Se	82	1	nogas	-0.166	-0.830	-128.91	310	-0.05	2000	
Sr	88	1	nogas	79.911	399.555	1.81	1404900	0.01	2000	
Mo	95	1	nogas	4.088	20.438	2.15	16029	0.03	2000	
Ag	107	1	nogas	0.079	0.396	18.82	897	0.01	2000	
Cd	111	1	nogas	0.049	0.245	66.08	112	0.04	2000	
Sn	118	1	nogas	0.361	1.806	6.77	4447	0.01	2000	
Sb	121	1	nogas	0.370	1.852	5.58	6055	0.01	2000	
Ba	137	1	nogas	62.164	310.818	1.76	182499	0.03	2000	
Tl	205	1	nogas	0.040	0.199	21.22	1227	0.00	2000	
Pb	208	1	nogas	-0.008	-0.039	-89.50	2984	0.00	2000	
U	238	1	nogas	0.013	0.067	9.70	1087	0.00	2000	
Na	23	2	He	14445.200	72226.002	1.63	16485481	0.09	200000	
Mg	24	2	He	2653.654	13268.269	0.25	1711114	0.16	200000	
Al	27	2	He	2.672	13.361	12.16	2650	0.10	2000	
K	39	2	He	469.956	2349.780	0.83	404847	0.12	200000	
Ca	43	2	He	3568.330	17841.649	6.71	6782	52.62	200000	
Ca	44	2	He	3546.713	17733.565	1.08	112796	3.14	200000	
V	51	2	He	-1.027	-5.135	-16.20	-3584	0.03	2000	
Cr	52	2	He	22.874	114.368	0.83	107433	0.02	2000	
Mn	55	2	He	26.119	130.596	2.21	89344	0.03	2000	
Fe	56	2	He	213.596	1067.979	0.99	868211	0.02	200000	
Co	59	2	He	0.400	2.001	4.29	2427	0.02	2000	
Ni	60	2	He	28.232	141.158	3.40	39121	0.07	2000	
Cu	63	2	He	1.232	6.162	5.75	4898	0.03	2000	
Zn	66	2	He	2.466	12.328	13.85	2950	0.08	2000	
As	75	2	He	0.102	0.508	4.62	320	0.03	2000	
Sb	121	2	He	0.463	2.317	3.49	2787	0.02	2000	
Se	78	2	He	0.547	2.737	33.58	84	0.65	2000	
Ti	47	2	He	0.484	2.422	53.97	97	0.50	200	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1466150	1.03	1411661	103.86	70	120	
In	115	1	nogas	1774133	1.14	1676050	105.85	70	120	
Li	6	1	nogas	651915	0.13	699034	93.26	70	120	
Bi	209	1	nogas	1763394	6.61	1624905	108.52	70	120	

Sample Report

Ge	72	2	He	441567	0.45	431445	102.35	70	120	
In	115	2	He	694373	0.83	682631	101.72	70	120	

Sample Report

Sample Table

Sample Name	HS24060434-09MS
Data File Name	056SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T13:32:28-05:00
Sample Type	Sample
Dilution	1
Comment	TWDOD 213517
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	1	nogas	42.654	42.654	1.17	126204	0.03	2000	
B	11	1	nogas	481.507	481.507	1.99	883720	0.05	2000	
Al	27	1	nogas	104.658	104.658	0.82	998895	0.01	2000	
Ti	47	1	nogas	129.035	129.035	1.96	118907	0.11	2000	
Ni	60	1	nogas	171.526	171.526	0.74	451351	0.04	2000	
Cu	63	1	nogas	49.050	49.050	0.55	312746	0.02	2000	
Zn	66	1	nogas	54.345	54.345	1.05	99110	0.05	2000	
Se	77	1	nogas	65.903	65.903	12.16	14120	0.47	2000	
Se	82	1	nogas	47.649	47.649	4.09	5504	0.87	2000	
Sr	88	1	nogas	514.515	514.515	1.49	8441551	0.01	2000	
Mo	95	1	nogas	61.672	61.672	2.60	220760	0.03	2000	
Ag	107	1	nogas	42.826	42.826	1.62	372543	0.01	2000	
Cd	111	1	nogas	44.591	44.591	5.43	74354	0.06	2000	
Sn	118	1	nogas	83.648	83.648	2.26	456983	0.02	2000	
Sb	121	1	nogas	45.027	45.027	1.91	336514	0.01	2000	
Ba	137	1	nogas	349.695	349.695	1.38	957381	0.04	2000	
Tl	205	1	nogas	44.083	44.083	6.31	781580	0.01	2000	
Pb	208	1	nogas	44.542	44.542	6.25	1093608	0.00	2000	
U	238	1	nogas	82.290	82.290	5.91	2398639	0.00	2000	
Na	23	2	He	71415.101	71415.101	1.10	76506277	0.09	200000	
Mg	24	2	He	18229.913	18229.913	0.86	11060357	0.16	200000	
Al	27	2	He	105.845	105.845	0.93	39912	0.27	2000	
K	39	2	He	7157.144	7157.144	0.73	4595217	0.16	200000	
Ca	43	2	He	21862.410	21862.410	1.46	38860	56.26	200000	
Ca	44	2	He	21371.480	21371.480	0.84	635811	3.36	200000	
V	51	2	He	40.811	40.811	3.38	150563	0.03	2000	
Cr	52	2	He	155.648	155.648	0.91	646351	0.02	2000	
Mn	55	2	He	167.995	167.995	1.57	534222	0.03	2000	
Fe	56	2	He	5905.114	5905.114	1.13	22239378	0.03	200000	
Co	59	2	He	45.453	45.453	0.67	240629	0.02	2000	
Ni	60	2	He	173.405	173.405	0.16	225381	0.08	2000	
Cu	63	2	He	49.157	49.157	0.30	161150	0.03	2000	
Zn	66	2	He	53.923	53.923	2.29	38894	0.14	2000	
As	75	2	He	44.200	44.200	0.65	23759	0.19	2000	
Sb	121	2	He	44.461	44.461	0.59	145611	0.03	2000	
Se	78	2	He	43.775	43.775	2.93	2467	1.77	2000	
Ti	47	2	He	127.066	127.066	0.64	20488	0.62	200	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1386391	0.67	1411661	98.21	70	120	
In	115	1	nogas	1656960	0.75	1676050	98.86	70	120	
Li	6	1	nogas	587981	1.26	699034	84.11	70	120	
Bi	209	1	nogas	1642427	4.56	1624905	101.08	70	120	

Sample Report

Ge	72	2	He	415587	0.57	431445	96.32	70	120	
In	115	2	He	653740	0.13	682631	95.77	70	120	

Sample Report

Sample Table

Sample Name	HS24060434-09MSD
Data File Name	057SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T13:34:35-05:00
Sample Type	Sample
Dilution	1
Comment	TWDOD 213517
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	1	nogas	44.150	44.150	0.63	125623	0.04	2000	
B	11	1	nogas	507.973	507.973	1.25	895882	0.06	2000	
Al	27	1	nogas	108.039	108.039	0.59	1000152	0.01	2000	
Ti	47	1	nogas	137.068	137.068	1.59	122646	0.11	2000	
Ni	60	1	nogas	177.781	177.781	1.11	454303	0.04	2000	
Cu	63	1	nogas	50.791	50.791	1.09	314257	0.02	2000	
Zn	66	1	nogas	56.570	56.570	1.33	100096	0.06	2000	
Se	77	1	nogas	43.541	43.541	12.45	11878	0.37	2000	
Se	82	1	nogas	47.454	47.454	1.47	5324	0.89	2000	
Sr	88	1	nogas	529.181	529.181	0.39	8625632	0.01	2000	
Mo	95	1	nogas	63.433	63.433	0.26	225585	0.03	2000	
Ag	107	1	nogas	43.150	43.150	0.40	372912	0.01	2000	
Cd	111	1	nogas	45.296	45.296	0.70	75051	0.06	2000	
Sn	118	1	nogas	87.789	87.789	1.09	476428	0.02	2000	
Sb	121	1	nogas	47.483	47.483	0.41	344484	0.01	2000	
Ba	137	1	nogas	358.124	358.124	0.84	974115	0.04	2000	
Tl	205	1	nogas	45.566	45.566	5.28	801260	0.01	2000	
Pb	208	1	nogas	45.743	45.743	5.40	1113805	0.00	2000	
U	238	1	nogas	84.820	84.820	5.27	2451860	0.00	2000	
Na	23	2	He	73977.901	73977.901	0.23	78512447	0.09	200000	
Mg	24	2	He	18641.112	18641.112	0.41	11204454	0.17	200000	
Al	27	2	He	106.666	106.666	1.19	39832	0.27	2000	
K	39	2	He	7271.981	7271.981	0.90	4623891	0.16	200000	
Ca	43	2	He	22279.469	22279.469	2.65	39231	56.79	200000	
Ca	44	2	He	22033.550	22033.550	0.63	649382	3.39	200000	
V	51	2	He	40.250	40.250	1.49	147120	0.03	2000	
Cr	52	2	He	158.246	158.246	0.46	650864	0.02	2000	
Mn	55	2	He	173.143	173.143	0.86	545420	0.03	2000	
Fe	56	2	He	6055.704	6055.704	0.38	22593986	0.03	200000	
Co	59	2	He	46.831	46.831	0.97	245605	0.02	2000	
Ni	60	2	He	177.699	177.699	0.67	228797	0.08	2000	
Cu	63	2	He	50.167	50.167	1.12	162913	0.03	2000	
Zn	66	2	He	53.911	53.911	1.67	38523	0.14	2000	
As	75	2	He	44.420	44.420	1.75	23653	0.19	2000	
Sb	121	2	He	45.331	45.331	0.76	147053	0.03	2000	
Se	78	2	He	43.765	43.765	3.42	2444	1.79	2000	
Ti	47	2	He	129.869	129.869	3.42	20745	0.63	200	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1346362	1.25	1411661	95.37	70	120	
In	115	1	nogas	1646051	1.52	1676050	98.21	70	120	
Li	6	1	nogas	565392	0.24	699034	80.88	70	120	
Bi	209	1	nogas	1627736	3.22	1624905	100.17	70	120	

Sample Report

Ge	72	2	He	411703	0.18	431445	95.42	70	120	
In	115	2	He	648868	0.97	682631	95.05	70	120	

Sample Report

Sample Table

Sample Name	HS24060434-09PDS
Data File Name	058SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T13:36:39-05:00
Sample Type	Sample
Dilution	1
Comment	TWDOD 213517
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	1	nogas	84.214	84.214	0.73	249227	0.03	2000	
B	11	1	nogas	36.196	36.196	6.37	79750	0.05	2000	
Al	27	1	nogas	107.279	107.279	1.13	981215	0.01	2000	
Ti	47	1	nogas	94.344	94.344	0.12	83445	0.11	2000	
Ni	60	1	nogas	223.910	223.910	1.43	565009	0.04	2000	
Cu	63	1	nogas	95.041	95.041	0.74	575154	0.02	2000	
Zn	66	1	nogas	102.319	102.319	1.32	176854	0.06	2000	
Se	77	1	nogas	126.917	126.917	5.53	18505	0.69	2000	
Se	82	1	nogas	98.015	98.015	3.66	10544	0.93	2000	
Sr	88	1	nogas	447.052	447.052	1.81	7114184	0.01	2000	
Mo	95	1	nogas	109.867	109.867	1.81	381194	0.03	2000	
Ag	107	1	nogas	90.161	90.161	1.97	760554	0.01	2000	
Cd	111	1	nogas	91.441	91.441	3.22	147911	0.06	2000	
Sn	118	1	nogas	1.443	1.443	5.48	9733	0.01	2000	
Sb	121	1	nogas	90.325	90.325	1.53	644702	0.01	2000	
Ba	137	1	nogas	420.269	420.269	1.65	1115940	0.04	2000	
Tl	205	1	nogas	93.762	93.762	6.22	1600768	0.01	2000	
Pb	208	1	nogas	94.217	94.217	6.18	2224908	0.00	2000	
U	238	1	nogas	0.618	0.618	4.27	17952	0.00	2000	
Na	23	2	He	81562.286	81562.286	0.63	84663479	0.10	200000	
Mg	24	2	He	23865.691	23865.691	0.79	14030398	0.17	200000	
Al	27	2	He	105.370	105.370	2.15	38509	0.27	2000	
K	39	2	He	12270.651	12270.651	0.96	7574942	0.16	200000	
Ca	43	2	He	26848.812	26848.812	1.08	46231	58.08	200000	
Ca	44	2	He	26798.767	26798.767	0.55	772379	3.47	200000	
V	51	2	He	85.610	85.610	1.00	305616	0.03	2000	
Cr	52	2	He	208.069	208.069	0.84	834856	0.02	2000	
Mn	55	2	He	223.610	223.610	1.03	688657	0.03	2000	
Fe	56	2	He	11246.509	11246.509	0.95	41032570	0.03	200000	
Co	59	2	He	92.187	92.187	0.29	472734	0.02	2000	
Ni	60	2	He	227.266	227.266	0.79	286164	0.08	2000	
Cu	63	2	He	96.218	96.218	0.39	305096	0.03	2000	
Zn	66	2	He	101.494	101.494	2.01	70044	0.14	2000	
As	75	2	He	91.389	91.389	1.51	47346	0.19	2000	
Sb	121	2	He	89.530	89.530	1.14	283004	0.03	2000	
Se	78	2	He	91.810	91.810	1.31	4962	1.85	2000	
Ti	47	2	He	93.500	93.500	4.55	14611	0.64	200	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1329886	0.46	1411661	94.21	70	120	
In	115	1	nogas	1607181	0.84	1676050	95.89	70	120	
Li	6	1	nogas	588195	0.62	699034	84.14	70	120	
Bi	209	1	nogas	1581779	4.35	1624905	97.35	70	120	

Sample Report

Ge	72	2	He	402690	0.64	431445	93.34	70	120	
In	115	2	He	633914	0.82	682631	92.86	70	120	

Sample Report

Sample Table

Sample Name	HS24060434-02
Data File Name	062SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T13:45:01-05:00
Sample Type	Sample
Dilution	1
Comment	TWDOD 213517
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Fail

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	1	nogas	0.037	0.037	30.16	125	0.03	2000	
B	11	1	nogas	791.017	791.017	1.25	1125455	0.07	2000	
Al	27	1	nogas	16.736	16.736	1.19	174681	0.01	2000	
Ti	47	1	nogas	1.560	1.560	1.94	1453	0.11	2000	
Ni	60	1	nogas	2.783	2.783	1.82	7065	0.04	2000	
Cu	63	1	nogas	5.434	5.434	7.70	36719	0.01	2000	
Zn	66	1	nogas	7.193	7.193	4.75	13807	0.05	2000	
Se	77	1	nogas	0.980	0.980	334.91	7772	0.01	2000	
Se	82	1	nogas	0.267	0.267	157.45	307	0.09	2000	
Sr	88	1	nogas	958.964	958.964	1.92	14206799	0.01	2000	
Mo	95	1	nogas	2.379	2.379	2.78	8002	0.03	2000	
Ag	107	1	nogas	0.050	0.050	7.78	523	0.01	2000	
Cd	111	1	nogas	0.052	0.052	64.02	98	0.05	2000	
Sn	118	1	nogas	0.385	0.385	9.67	3871	0.01	2000	
Sb	121	1	nogas	0.226	0.226	3.99	4201	0.01	2000	
Ba	137	1	nogas	189.990	189.990	2.62	469846	0.04	2000	
Tl	205	1	nogas	-0.005	-0.005	-43.36	300	0.00	2000	
Pb	208	1	nogas	0.064	0.064	22.18	3960	0.00	2000	
U	238	1	nogas	0.298	0.298	6.54	8149	0.00	2000	
Na	23	2	He	499722.872	499722.872	0.77	493714299	0.10	200000	>LDR
Mg	24	2	He	13183.662	13183.662	0.59	7380928	0.18	200000	
Al	27	2	He	16.958	16.958	3.91	7082	0.24	2000	
K	39	2	He	114138.607	114138.607	0.11	66446231	0.17	200000	
Ca	43	2	He	11137.366	11137.366	1.23	18288	60.90	200000	
Ca	44	2	He	10102.610	10102.610	0.47	277707	3.64	200000	
V	51	2	He	-0.234	-0.234	-127.61	-419	0.06	2000	
Cr	52	2	He	9.573	9.573	0.97	42898	0.02	2000	
Mn	55	2	He	14.953	14.953	0.80	44897	0.03	2000	
Fe	56	2	He	1179.994	1179.994	0.91	4110479	0.03	200000	
Co	59	2	He	0.322	0.322	2.91	1723	0.02	2000	
Ni	60	2	He	2.265	2.265	2.22	2857	0.08	2000	
Cu	63	2	He	0.613	0.613	4.31	2387	0.03	2000	
Zn	66	2	He	6.679	6.679	2.83	5291	0.13	2000	
As	75	2	He	3.386	3.386	1.88	1890	0.18	2000	
Sb	121	2	He	0.301	0.301	11.14	1934	0.02	2000	
Se	78	2	He	0.451	0.451	7.75	68	0.66	2000	
Ti	47	2	He	0.750	0.750	36.59	123	0.61	200	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1249820	0.74	1411661	88.54	70	120	
In	115	1	nogas	1496460	1.23	1676050	89.28	70	120	
Li	6	1	nogas	458687	0.82	699034	65.62	70	120	ISTD Failed
Bi	209	1	nogas	1439894	5.00	1624905	88.61	70	120	
Ge	72	2	He	383466	0.32	431445	88.88	70	120	
In	115	2	He	591938	0.30	682631	86.71	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	064_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T13:49:13-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	1	nogas	92.814	1.848	278154	0.83	100	92.8	90	110	
B	11	1	nogas	472.310	2.273	878509	1.15	500	94.5	90	110	
Al	27	1	nogas	93.046	0.676	873724	0.53	100	93.0	90	110	
P	31	1	nogas	178.801	21.037	71965	2.02	500	35.8	90	110	CCV Main CR1-2 Failed
Ti	47	1	nogas	97.633	2.435	88108	1.73	100	97.6	90	110	
Ni	60	1	nogas	97.362	1.447	250997	1.11	100	97.4	90	110	
Cu	63	1	nogas	98.061	1.959	605324	1.45	100	98.1	90	110	
Zn	66	1	nogas	96.849	2.320	170946	1.84	100	96.8	90	110	
Se	77	1	nogas	119.936	5.073	18305	2.38	100	119.9	90	110	CCV Main CR1-2 Failed
Se	82	1	nogas	101.563	2.719	11138	2.35	100	101.6	90	110	
Sr	88	1	nogas	98.283	2.879	1595070	1.24	100	98.3	90	110	
Mo	95	1	nogas	96.289	2.293	340561	0.61	100	96.3	90	110	
Ag	107	1	nogas	97.483	2.863	838098	1.20	100	97.5	90	110	
Cd	111	1	nogas	96.939	1.995	159817	1.07	100	96.9	90	110	
Sn	118	1	nogas	96.749	3.290	522157	1.63	100	96.7	90	110	
Sb	121	1	nogas	98.968	2.638	720472	1.91	100	99.0	90	110	
Ba	137	1	nogas	97.654	3.158	264514	1.55	100	97.7	90	110	
Tl	205	1	nogas	97.739	7.366	1761517	1.49	100	97.7	90	110	
Pb	208	1	nogas	97.741	7.799	2436112	1.88	100	97.7	90	110	
U	238	1	nogas	94.458	8.824	2797529	2.94	100	94.5	90	110	
Li	7	1	nogas	93.817	1.149	934710	0.19	100	93.8	90	110	
Ba	135	1	nogas	98.062	3.218	152315	1.62	100	98.1	90	110	
Tl	203	1	nogas	98.066	7.049	732293	1.20	100	98.1	90	110	
Na	23	2	He	10553.109	0.875	10917602	1.21	10000	105.5	90	110	
Mg	24	2	He	10486.487	1.583	6120222	0.92	10000	104.9	90	110	
Al	27	2	He	94.252	2.060	34345	1.33	100	94.3	90	110	
K	39	2	He	10615.897	1.545	6516699	1.17	10000	106.2	90	110	
Ca	43	2	He	9412.427	4.566	16119	4.33	10000	94.1	90	110	
Ca	44	2	He	9663.921	1.445	276980	1.46	10000	96.6	90	110	
V	51	2	He	97.259	1.875	344660	2.31	100	97.3	90	110	
Cr	52	2	He	98.541	0.774	396175	1.36	100	98.5	90	110	
Mn	55	2	He	98.835	0.982	302831	1.48	100	98.8	90	110	
Fe	56	2	He	10933.799	0.730	39603112	1.23	10000	109.3	90	110	
Co	59	2	He	99.885	1.190	508515	1.70	100	99.9	90	110	
Ni	60	2	He	100.219	2.974	125376	3.45	100	100.2	90	110	
Cu	63	2	He	100.073	0.129	315005	0.58	100	100.1	90	110	
Zn	66	2	He	99.463	1.664	68168	2.22	100	99.5	90	110	
As	75	2	He	97.473	0.543	50116	1.01	100	97.5	90	110	
Sb	121	2	He	99.470	1.489	312047	1.74	100	99.5	90	110	
Se	78	2	He	99.519	2.581	5336	3.20	100	99.5	90	110	
Ti	47	2	He	98.516	4.837	15285	5.23	100	98.5	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1357129	0.71	1411661	96.14	70	120	
In	115	1	nogas	1638397	1.70	1676050	97.75	70	120	
Li	6	1	nogas	595709	1.13	699034	85.22	70	120	
Bi	209	1	nogas	1671926	6.15	1624905	102.89	70	120	
Ge	72	2	He	399777	0.66	431445	92.66	70	120	
In	115	2	He	637495	0.89	682631	93.39	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	065_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T13:51:18-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	1	nogas	0.081	10.1	305	8.7	2.5	
B	11	1	nogas	23.482	10.7	59141	8.4	2.5	CCB Main CR1 Failed
Al	27	1	nogas	-3.026	-2.3	12362	4.6	5	
P	31	1	nogas	-803.775	-1.5	45107	1.0	2.5	
Ti	47	1	nogas	0.063	101.8	227	25.1	2.5	
Ni	60	1	nogas	0.036	97.6	597	14.3	2.5	
Cu	63	1	nogas	1.037	5.5	12862	2.2	5	
Zn	66	1	nogas	-0.451	-19.8	1673	8.5	2.5	
Se	77	1	nogas	-39.361	-11.5	5031	8.0	2.5	
Se	82	1	nogas	-0.449	-116.5	253	21.7	5	
Sr	88	1	nogas	-0.005	-408.6	1263	26.5	2.5	
Mo	95	1	nogas	0.623	18.7	2567	17.8	2.5	
Ag	107	1	nogas	0.039	32.1	483	24.2	2.5	
Cd	111	1	nogas	0.044	70.3	95	52.9	2.5	
Sn	118	1	nogas	0.413	25.5	4401	14.3	2.5	
Sb	121	1	nogas	0.853	22.9	8990	15.6	2.5	
Ba	137	1	nogas	-0.044	-52.8	203	31.2	2.5	
Tl	205	1	nogas	0.268	38.3	5315	41.8	2.5	
Pb	208	1	nogas	-0.010	-188.0	2757	20.8	2.5	
U	238	1	nogas	0.049	40.8	2104	34.8	2.5	
Na	23	2	He	80.133	3.1	134162	2.1	100	
Mg	24	2	He	1.943	18.5	1603	12.8	100	
Al	27	2	He	-2.623	-3.8	563	6.2	5	
K	39	2	He	24.878	7.3	98664	1.4	100	
Ca	43	2	He	-13.726	-48.6	23	49.5	100	
Ca	44	2	He	-7.305	-47.1	543	18.8	100	
V	51	2	He	-0.309	-99.2	-721	-154.3	2.5	
Cr	52	2	He	-0.795	-10.1	3841	7.7	2.5	
Mn	55	2	He	-0.192	-32.3	593	33.0	2.5	
Fe	56	2	He	4.080	13.2	27976	7.3	100	
Co	59	2	He	-0.001	-331.3	157	16.1	2.5	
Ni	60	2	He	0.035	110.8	197	26.1	2.5	
Cu	63	2	He	0.036	70.7	690	12.4	5	
Zn	66	2	He	-0.538	-28.5	657	15.6	2.5	
As	75	2	He	0.021	50.4	253	2.6	2.5	
Sb	121	2	He	0.605	4.0	3027	2.0	2.5	
Se	78	2	He	0.616	41.2	81	17.4	5	
Ti	47	2	He	0.090	217.4	27	114.6	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1339745	0.62	1411661	94.91	70	120	
In	115	1	nogas	1642495	1.84	1676050	98.00	70	120	
Li	6	1	nogas	612687	0.41	699034	87.65	70	120	

Continuing Calibration Blank (CCB) Report

Bi	209	1	nogas	1658081	6.57	1624905	102.04	70	120	
Ge	72	2	He	407811	0.72	431445	94.52	70	120	
In	115	2	He	657144	0.27	682631	96.27	70	120	

Sample Report

Sample Table

Sample Name	HS24060434-03
Data File Name	066SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T13:53:24-05:00
Sample Type	Sample
Dilution	1
Comment	TWDOD 213517
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	1	nogas	0.091	0.091	29.87	297	0.03	2000	
B	11	1	nogas	52.181	52.181	1.15	100385	0.05	2000	
Al	27	1	nogas	53.710	53.710	1.33	478539	0.01	2000	
Ti	47	1	nogas	3.564	3.564	9.85	3107	0.11	2000	
Ni	60	1	nogas	2.848	2.848	4.11	7199	0.04	2000	
Cu	63	1	nogas	5.201	5.201	11.86	35302	0.01	2000	
Zn	66	1	nogas	6.727	6.727	3.94	13023	0.05	2000	
Se	77	1	nogas	-14.009	-14.009	-39.87	6608	-0.21	2000	
Se	82	1	nogas	0.446	0.446	131.20	323	0.14	2000	
Sr	88	1	nogas	1367.010	1367.010	0.76	20231741	0.01	2000	
Mo	95	1	nogas	0.452	0.452	8.05	1780	0.03	2000	
Ag	107	1	nogas	0.037	0.037	26.37	423	0.01	2000	
Cd	111	1	nogas	0.022	0.022	14.78	54	0.04	2000	
Sn	118	1	nogas	0.514	0.514	14.67	4497	0.01	2000	
Sb	121	1	nogas	0.298	0.298	10.92	4668	0.01	2000	
Ba	137	1	nogas	1341.624	1341.624	7.73	3313061	0.04	2000	
Tl	205	1	nogas	0.037	0.037	14.71	993	0.00	2000	
Pb	208	1	nogas	0.031	0.031	45.74	3390	0.00	2000	
U	238	1	nogas	0.039	0.039	11.50	1593	0.00	2000	
Na	23	2	He	116086.458	116086.458	0.94	111831532	0.10	200000	
Mg	24	2	He	26967.314	26967.314	1.83	14715765	0.18	200000	
Al	27	2	He	55.032	55.032	2.56	19322	0.28	2000	
K	39	2	He	14941.117	14941.117	2.90	8544347	0.17	200000	
Ca	43	2	He	50790.927	50790.927	1.75	81139	62.60	200000	
Ca	44	2	He	50512.701	50512.701	1.92	1350684	3.74	200000	
V	51	2	He	0.404	0.404	33.05	1703	0.02	2000	
Cr	52	2	He	8.923	8.923	1.16	39415	0.02	2000	
Mn	55	2	He	657.404	657.404	1.33	1877204	0.04	2000	
Fe	56	2	He	62006.794	62006.794	0.78	209941037	0.03	200000	
Co	59	2	He	1.263	1.263	5.03	6161	0.02	2000	
Ni	60	2	He	2.305	2.305	9.01	2830	0.08	2000	
Cu	63	2	He	0.668	0.668	8.82	2490	0.03	2000	
Zn	66	2	He	6.791	6.791	7.10	5231	0.13	2000	
As	75	2	He	7.701	7.701	0.66	3907	0.20	2000	
Sb	121	2	He	0.297	0.297	16.62	1873	0.02	2000	
Se	78	2	He	0.285	0.285	114.27	58	0.49	2000	
Ti	47	2	He	1.504	1.504	38.73	230	0.65	200	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1246256	0.41	1411661	88.28	70	120	
In	115	1	nogas	1494856	1.12	1676050	89.19	70	120	
Li	6	1	nogas	543621	0.90	699034	77.77	70	120	
Bi	209	1	nogas	1498516	5.01	1624905	92.22	70	120	
Ge	72	2	He	373815	0.91	431445	86.64	70	120	
In	115	2	He	592949	0.39	682631	86.86	70	120	

Sample Report

Sample Table

Sample Name	HS24060434-04
Data File Name	067SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T13:55:27-05:00
Sample Type	Sample
Dilution	1
Comment	TWDOD 213517
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	1	nogas	0.423	0.423	6.48	1383	0.03	2000	
B	11	1	nogas	15.291	15.291	3.90	44487	0.03	2000	
Al	27	1	nogas	507.028	507.028	2.52	4577288	0.01	2000	
Ti	47	1	nogas	6.160	6.160	5.94	5711	0.11	2000	
Ni	60	1	nogas	5.115	5.115	1.06	13650	0.04	2000	
Cu	63	1	nogas	4.117	4.117	1.64	31777	0.01	2000	
Zn	66	1	nogas	17.290	17.290	1.52	32506	0.05	2000	
Se	77	1	nogas	43.499	43.499	10.70	11948	0.36	2000	
Se	82	1	nogas	-0.383	-0.383	-172.05	263	-0.15	2000	
Sr	88	1	nogas	44.152	44.152	2.02	725860	0.01	2000	
Mo	95	1	nogas	0.129	0.129	36.70	820	0.02	2000	
Ag	107	1	nogas	0.052	0.052	16.24	597	0.01	2000	
Cd	111	1	nogas	0.503	0.503	8.32	861	0.06	2000	
Sn	118	1	nogas	0.328	0.328	5.96	3971	0.01	2000	
Sb	121	1	nogas	0.168	0.168	3.49	4131	0.00	2000	
Ba	137	1	nogas	84.828	84.828	0.70	232588	0.04	2000	
Tl	205	1	nogas	0.017	0.017	23.69	770	0.00	2000	
Pb	208	1	nogas	0.720	0.720	5.88	21484	0.00	2000	
U	238	1	nogas	0.622	0.622	4.96	19561	0.00	2000	
Na	23	2	He	13757.533	13757.533	0.66	14471031	0.10	200000	
Mg	24	2	He	1482.343	1482.343	0.78	880999	0.17	200000	
Al	27	2	He	480.772	480.772	1.08	172201	0.28	2000	
K	39	2	He	332.186	332.186	1.51	288046	0.12	200000	
Ca	43	2	He	2201.506	2201.506	2.25	3874	56.83	200000	
Ca	44	2	He	2288.487	2288.487	1.31	67339	3.40	200000	
V	51	2	He	1.910	1.910	36.59	7274	0.03	2000	
Cr	52	2	He	0.842	0.842	6.23	10417	0.01	2000	
Mn	55	2	He	16.034	16.034	1.49	51000	0.03	2000	
Fe	56	2	He	410.692	410.692	0.51	1526491	0.03	200000	
Co	59	2	He	1.762	1.762	1.65	9290	0.02	2000	
Ni	60	2	He	5.245	5.245	6.63	6822	0.08	2000	
Cu	63	2	He	2.871	2.871	4.96	9753	0.03	2000	
Zn	66	2	He	17.011	17.011	1.32	12716	0.13	2000	
As	75	2	He	0.393	0.393	17.35	447	0.09	2000	
Sb	121	2	He	0.212	0.212	29.46	1770	0.01	2000	
Se	78	2	He	0.621	0.621	56.99	81	0.76	2000	
Ti	47	2	He	5.457	5.457	13.59	873	0.62	200	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1354912	0.43	1411661	95.98	70	120	
In	115	1	nogas	1657643	0.90	1676050	98.90	70	120	
Li	6	1	nogas	623402	0.92	699034	89.18	70	120	
Bi	209	1	nogas	1714263	5.32	1624905	105.50	70	120	

Sample Report

Ge	72	2	He	406911	0.70	431445	94.31	70	120	
In	115	2	He	650843	0.43	682631	95.34	70	120	

Sample Report

Sample Table

Sample Name	HS24060434-05
Data File Name	068SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T13:57:32-05:00
Sample Type	Sample
Dilution	1
Comment	TWDOD 213517
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	1	nogas	0.389	0.389	11.71	1257	0.03	2000	
B	11	1	nogas	12.656	12.656	4.52	38832	0.03	2000	
Al	27	1	nogas	251.228	251.228	0.50	2277820	0.01	2000	
Ti	47	1	nogas	2.552	2.552	3.92	2457	0.10	2000	
Ni	60	1	nogas	5.120	5.120	0.46	13603	0.04	2000	
Cu	63	1	nogas	3.694	3.694	2.70	29068	0.01	2000	
Zn	66	1	nogas	18.643	18.643	2.53	34704	0.05	2000	
Se	77	1	nogas	21.534	21.534	42.98	10087	0.21	2000	
Se	82	1	nogas	-0.308	-0.308	-82.40	270	-0.11	2000	
Sr	88	1	nogas	42.489	42.489	1.38	690563	0.01	2000	
Mo	95	1	nogas	0.137	0.137	9.34	840	0.02	2000	
Ag	107	1	nogas	0.037	0.037	14.09	467	0.01	2000	
Cd	111	1	nogas	0.493	0.493	7.86	835	0.06	2000	
Sn	118	1	nogas	0.351	0.351	18.99	4054	0.01	2000	
Sb	121	1	nogas	0.345	0.345	5.65	5391	0.01	2000	
Ba	137	1	nogas	79.616	79.616	1.40	215789	0.04	2000	
Tl	205	1	nogas	0.009	0.009	44.18	613	0.00	2000	
Pb	208	1	nogas	0.521	0.521	5.46	16074	0.00	2000	
U	238	1	nogas	0.584	0.584	5.73	18032	0.00	2000	
Na	23	2	He	12806.464	12806.464	1.26	13543004	0.09	200000	
Mg	24	2	He	1419.168	1419.168	1.08	847782	0.17	200000	
Al	27	2	He	254.364	254.364	1.99	92276	0.28	2000	
K	39	2	He	276.317	276.317	0.35	254876	0.11	200000	
Ca	43	2	He	1899.893	1899.893	8.64	3367	56.42	200000	
Ca	44	2	He	1928.081	1928.081	0.89	57141	3.37	200000	
V	51	2	He	1.264	1.264	25.30	4974	0.03	2000	
Cr	52	2	He	0.621	0.621	14.75	9577	0.01	2000	
Mn	55	2	He	19.638	19.638	1.80	62510	0.03	2000	
Fe	56	2	He	143.452	143.452	0.81	544302	0.03	200000	
Co	59	2	He	1.775	1.775	2.41	9406	0.02	2000	
Ni	60	2	He	5.120	5.120	4.46	6695	0.08	2000	
Cu	63	2	He	2.831	2.831	3.23	9677	0.03	2000	
Zn	66	2	He	18.105	18.105	3.59	13536	0.13	2000	
As	75	2	He	0.238	0.238	40.57	368	0.06	2000	
Sb	121	2	He	0.435	0.435	7.36	2490	0.02	2000	
Se	78	2	He	0.515	0.515	21.07	76	0.68	2000	
Ti	47	2	He	1.456	1.456	29.93	243	0.60	200	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1348862	0.73	1411661	95.55	70	120	
In	115	1	nogas	1638410	0.24	1676050	97.75	70	120	
Li	6	1	nogas	613919	0.64	699034	87.82	70	120	
Bi	209	1	nogas	1677913	5.08	1624905	103.26	70	120	

Sample Report

Ge	72	2	He	408975	0.41	431445	94.79	70	120	
In	115	2	He	653615	0.99	682631	95.75	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	076_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T14:14:14-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	1	nogas	90.966	0.598	264606	0.16	100	91.0	90	110	
B	11	1	nogas	454.185	1.778	820500	1.04	500	90.8	90	110	
Al	27	1	nogas	92.739	1.115	839540	0.96	100	92.7	90	110	
P	31	1	nogas	185.714	23.046	69541	1.45	500	37.1	90	110	CCV Main CR1-2 Failed
Ti	47	1	nogas	97.787	1.359	85071	1.50	100	97.8	90	110	
Ni	60	1	nogas	96.686	1.540	240278	1.80	100	96.7	90	110	
Cu	63	1	nogas	98.087	0.703	583674	0.89	100	98.1	90	110	
Zn	66	1	nogas	97.539	2.833	165948	2.83	100	97.5	90	110	
Se	77	1	nogas	128.184	4.226	18305	2.32	100	128.2	90	110	CCV Main CR1-2 Failed
Se	82	1	nogas	96.057	1.473	10170	1.62	100	96.1	90	110	
Sr	88	1	nogas	96.747	2.015	1547771	1.14	100	96.7	90	110	
Mo	95	1	nogas	93.869	2.643	327244	1.78	100	93.9	90	110	
Ag	107	1	nogas	95.671	2.373	810772	1.50	100	95.7	90	110	
Cd	111	1	nogas	96.232	2.530	156364	1.70	100	96.2	90	110	
Sn	118	1	nogas	96.816	2.559	515077	1.68	100	96.8	90	110	
Sb	121	1	nogas	101.199	1.505	710149	1.57	100	101.2	90	110	
Ba	137	1	nogas	98.177	2.733	262134	1.86	100	98.2	90	110	
Tl	205	1	nogas	97.281	7.951	1755029	2.71	100	97.3	90	110	
Pb	208	1	nogas	97.099	7.117	2423735	1.85	100	97.1	90	110	
U	238	1	nogas	93.392	7.555	2770794	2.32	100	93.4	90	110	
Li	7	1	nogas	91.444	0.744	885367	0.06	100	91.4	90	110	
Ba	135	1	nogas	96.943	4.229	148418	3.40	100	96.9	90	110	
Tl	203	1	nogas	97.663	7.474	730047	2.27	100	97.7	90	110	
Na	23	2	He	10313.005	0.877	10486306	1.43	10000	103.1	90	110	
Mg	24	2	He	10347.095	2.555	5933994	1.29	10000	103.5	90	110	
Al	27	2	He	94.073	0.971	33701	2.71	100	94.1	90	110	
K	39	2	He	10300.681	1.326	6216485	1.03	10000	103.0	90	110	
Ca	43	2	He	9244.154	4.025	15562	4.56	10000	92.4	90	110	
Ca	44	2	He	9564.754	1.054	269460	2.55	10000	95.6	90	110	
V	51	2	He	94.953	1.676	330642	0.67	100	95.0	90	110	
Cr	52	2	He	96.643	1.241	381937	0.60	100	96.6	90	110	
Mn	55	2	He	98.194	2.198	295633	1.16	100	98.2	90	110	
Fe	56	2	He	10772.734	1.105	38344093	0.70	10000	107.7	90	110	
Co	59	2	He	98.287	1.476	491686	0.35	100	98.3	90	110	
Ni	60	2	He	98.552	0.220	121162	1.59	100	98.6	90	110	
Cu	63	2	He	100.029	0.917	309429	0.91	100	100.0	90	110	
Zn	66	2	He	96.999	0.322	65356	1.52	100	97.0	90	110	
As	75	2	He	95.357	1.815	48181	0.42	100	95.4	90	110	
Sb	121	2	He	99.476	1.017	306666	0.82	100	99.5	90	110	
Se	78	2	He	98.398	2.139	5184	0.60	100	98.4	90	110	
Ti	47	2	He	96.824	2.231	14761	2.07	100	96.8	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1308142	0.30	1411661	92.67	70	120	
In	115	1	nogas	1614701	0.88	1676050	96.34	70	120	
Li	6	1	nogas	578147	0.73	699034	82.71	70	120	
Bi	209	1	nogas	1673413	5.48	1624905	102.99	70	120	
Ge	72	2	He	392912	1.79	431445	91.07	70	120	
In	115	2	He	628280	1.40	682631	92.04	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	077_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T14:16:19-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	1	nogas	0.067	39.1	255	31.6	2.5	
B	11	1	nogas	13.278	16.9	38842	11.1	2.5	CCB Main CR1 Failed
Al	27	1	nogas	-3.026	-1.0	12055	3.1	5	
P	31	1	nogas	-812.085	-5.2	43763	1.7	2.5	
Ti	47	1	nogas	0.092	76.4	247	25.7	2.5	
Ni	60	1	nogas	0.054	41.1	627	7.9	2.5	
Cu	63	1	nogas	1.013	13.5	12399	6.5	5	
Zn	66	1	nogas	-0.467	-19.0	1607	10.1	2.5	
Se	77	1	nogas	-35.130	-5.5	5241	2.2	2.5	
Se	82	1	nogas	-0.491	-186.5	243	39.5	5	
Sr	88	1	nogas	-0.009	-211.5	1173	25.8	2.5	
Mo	95	1	nogas	0.515	33.0	2147	28.9	2.5	
Ag	107	1	nogas	0.026	28.9	363	18.7	2.5	
Cd	111	1	nogas	0.023	118.1	59	73.6	2.5	
Sn	118	1	nogas	0.410	24.5	4304	13.2	2.5	
Sb	121	1	nogas	0.791	24.4	8339	17.0	2.5	
Ba	137	1	nogas	-0.027	-43.4	247	13.0	2.5	
Tl	205	1	nogas	0.272	38.0	5408	40.8	2.5	
Pb	208	1	nogas	-0.029	-73.0	2310	28.4	2.5	
U	238	1	nogas	0.054	48.6	2247	39.7	2.5	
Na	23	2	He	48.895	1.9	98412	1.7	100	
Mg	24	2	He	1.594	10.1	1357	7.8	100	
Al	27	2	He	-2.885	-0.5	457	1.3	5	
K	39	2	He	19.677	4.7	92684	1.3	100	
Ca	43	2	He	-17.299	-19.5	17	34.6	100	
Ca	44	2	He	-9.240	-44.3	473	25.6	100	
V	51	2	He	-0.319	-55.0	-734	-84.1	2.5	
Cr	52	2	He	-0.870	-3.9	3440	4.1	2.5	
Mn	55	2	He	-0.183	-19.1	603	16.6	2.5	
Fe	56	2	He	4.099	13.4	27242	8.1	100	
Co	59	2	He	-0.010	-93.4	110	41.7	2.5	
Ni	60	2	He	0.048	124.5	207	35.7	2.5	
Cu	63	2	He	0.038	69.2	677	13.2	5	
Zn	66	2	He	-0.649	-33.6	563	25.7	2.5	
As	75	2	He	-0.042	-245.2	214	24.7	2.5	
Sb	121	2	He	0.411	10.7	2337	6.8	2.5	
Se	78	2	He	0.584	46.6	77	19.4	5	
Ti	47	2	He	0.072	53.2	23	24.7	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1306359	0.94	1411661	92.54	70	120	
In	115	1	nogas	1612736	1.26	1676050	96.22	70	120	
Li	6	1	nogas	595797	0.54	699034	85.23	70	120	

Continuing Calibration Blank (CCB) Report

Bi	209	1	nogas	1667349	5.45	1624905	102.61	70	120	
Ge	72	2	He	396002	0.97	431445	91.78	70	120	
In	115	2	He	632451	0.04	682631	92.65	70	120	

Sample Report

Sample Table

Sample Name	HS24060434-02
Data File Name	079SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T14:20:31-05:00
Sample Type	Sample
Dilution	100
Comment	TWDOD 213517
ISTD Ref FileName	010CALB.d
Sample QC Pass/Fail	Pass
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	FinalConc	Conc %RSD	CPS	%RSD	LDR	QC Flag
Be	9	1	nogas	0.013	1.263	60.01	92	0.01	2000	
B	11	1	nogas	8.261	826.135	3.20	30071	0.03	2000	
Al	27	1	nogas	-1.863	-186.309	-3.46	22270	-0.01	2000	
Ti	47	1	nogas	-0.001	-0.139	-4141.70	167	0.00	2000	
Ni	60	1	nogas	0.008	0.768	213.24	517	0.00	2000	
Cu	63	1	nogas	0.775	77.497	5.07	11091	0.01	2000	
Zn	66	1	nogas	0.282	28.236	28.97	2884	0.01	2000	
Se	77	1	nogas	-30.240	-3024.013	-8.27	5678	-0.53	2000	
Se	82	1	nogas	-0.376	-37.616	-89.22	257	-0.15	2000	
Sr	88	1	nogas	8.463	846.322	2.43	138142	0.01	2000	
Mo	95	1	nogas	0.037	3.651	34.90	483	0.01	2000	
Ag	107	1	nogas	-0.007	-0.655	-3.49	90	-0.01	2000	
Cd	111	1	nogas	-0.004	-0.364	-250.64	17	-0.02	2000	
Sn	118	1	nogas	-0.130	-12.997	-14.32	1460	-0.01	2000	
Sb	121	1	nogas	-0.188	-18.800	-10.43	1510	-0.01	2000	
Ba	137	1	nogas	1.893	189.342	4.83	5428	0.03	2000	
Tl	205	1	nogas	-0.002	-0.226	-288.79	397	0.00	2000	
Pb	208	1	nogas	-0.075	-7.456	-5.30	1167	-0.01	2000	
U	238	1	nogas	-0.007	-0.721	-48.05	423	0.00	2000	
Na	23	2	He	5123.587	512358.742	0.23	5369898	0.10	200000	
Mg	24	2	He	120.255	12025.459	1.85	71214	0.17	200000	
Al	27	2	He	-1.933	-193.271	-13.88	800	-0.24	2000	
K	39	2	He	1024.236	102423.571	0.53	708360	0.14	200000	
Ca	43	2	He	90.829	9082.950	36.65	203	44.67	200000	
Ca	44	2	He	112.640	11263.993	10.10	3994	2.82	200000	
V	51	2	He	-0.755	-75.532	-45.58	-2300	0.03	2000	
Cr	52	2	He	-0.767	-76.663	-9.72	3911	-0.02	2000	
Mn	55	2	He	-0.040	-4.030	-60.26	1053	0.00	2000	
Fe	56	2	He	10.802	1080.198	1.31	52191	0.02	200000	
Co	59	2	He	-0.004	-0.426	-124.69	140	0.00	2000	
Ni	60	2	He	0.008	0.838	288.02	160	0.01	2000	
Cu	63	2	He	-0.005	-0.520	-340.59	550	0.00	2000	
Zn	66	2	He	0.075	7.546	210.79	1067	0.01	2000	
As	75	2	He	-0.111	-11.130	-40.44	182	-0.06	2000	
Sb	121	2	He	-0.101	-10.061	-9.31	767	-0.01	2000	
Se	78	2	He	-0.049	-4.938	-375.91	45	-0.11	2000	
Ti	47	2	He	-0.037	-3.706	-199.64	7	-0.56	200	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1316963	0.18	1411661	93.29	70	120	
In	115	1	nogas	1633355	2.20	1676050	97.45	70	120	
Li	6	1	nogas	604283	0.81	699034	86.45	70	120	
Bi	209	1	nogas	1691991	7.85	1624905	104.13	70	120	

Sample Report

Ge	72	2	He	403098	0.60	431445	93.43	70	120	
In	115	2	He	647561	0.53	682631	94.86	70	120	

Continuing Calibration Verification (CCV) Report

Sample Table

Sample Name	CCV
Data File Name	085_CCV.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T14:33:08-05:00
Sample Type	CCV
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Exp Value	%Rec	%Low	%High2	QC Flag
Be	9	1	nogas	91.060	1.031	265921	0.51	100	91.1	90	110	
B	11	1	nogas	451.742	2.629	819320	1.62	500	90.3	90	110	
Al	27	1	nogas	91.830	0.912	837666	1.01	100	91.8	90	110	
P	31	1	nogas	117.372	29.217	68268	1.62	500	23.5	90	110	CCV Main CR1-2 Failed
Ti	47	1	nogas	96.204	1.200	84297	1.36	100	96.2	90	110	
Ni	60	1	nogas	95.750	0.708	239659	1.11	100	95.7	90	110	
Cu	63	1	nogas	97.246	1.801	582897	2.16	100	97.2	90	110	
Zn	66	1	nogas	97.302	2.037	166744	2.40	100	97.3	90	110	
Se	77	1	nogas	144.627	0.592	19760	0.37	100	144.6	90	110	CCV Main CR1-2 Failed
Se	82	1	nogas	96.482	3.099	10287	2.98	100	96.5	90	110	
Sr	88	1	nogas	97.097	2.012	1540844	1.00	100	97.1	90	110	
Mo	95	1	nogas	94.699	2.452	327472	1.44	100	94.7	90	110	
Ag	107	1	nogas	96.203	1.134	808769	0.20	100	96.2	90	110	
Cd	111	1	nogas	96.946	3.008	156250	2.16	100	96.9	90	110	
Sn	118	1	nogas	97.105	3.234	512422	2.36	100	97.1	90	110	
Sb	121	1	nogas	99.320	2.174	702054	2.56	100	99.3	90	110	
Ba	137	1	nogas	97.612	2.983	258519	2.03	100	97.6	90	110	
Tl	205	1	nogas	97.061	7.338	1753180	2.52	100	97.1	90	110	
Pb	208	1	nogas	96.322	6.583	2407166	1.73	100	96.3	90	110	
U	238	1	nogas	93.386	7.185	2773711	2.36	100	93.4	90	110	
Li	7	1	nogas	91.293	1.269	887436	0.04	100	91.3	90	110	
Ba	135	1	nogas	97.782	4.357	148489	3.38	100	97.8	90	110	
Tl	203	1	nogas	97.069	6.474	726567	1.67	100	97.1	90	110	
Na	23	2	He	10191.133	0.288	10413152	0.56	10000	101.9	90	110	
Mg	24	2	He	10287.392	0.830	5929446	0.68	10000	102.9	90	110	
Al	27	2	He	91.872	1.891	33103	2.51	100	91.9	90	110	
K	39	2	He	10401.330	1.348	6306988	0.88	10000	104.0	90	110	
Ca	43	2	He	9381.725	1.387	15869	2.15	10000	93.8	90	110	
Ca	44	2	He	9468.352	1.465	268020	1.97	10000	94.7	90	110	
V	51	2	He	95.144	1.162	332939	0.64	100	95.1	90	110	
Cr	52	2	He	96.326	1.817	382554	1.05	100	96.3	90	110	
Mn	55	2	He	97.071	0.346	293730	0.82	100	97.1	90	110	
Fe	56	2	He	10704.141	0.880	38286238	0.56	10000	107.0	90	110	
Co	59	2	He	97.101	1.125	488193	1.85	100	97.1	90	110	
Ni	60	2	He	98.158	0.768	121256	0.19	100	98.2	90	110	
Cu	63	2	He	98.301	0.396	305577	0.58	100	98.3	90	110	
Zn	66	2	He	97.097	1.784	65741	2.33	100	97.1	90	110	
As	75	2	He	96.809	0.451	49155	0.86	100	96.8	90	110	
Sb	121	2	He	97.550	1.024	302209	0.30	100	97.5	90	110	
Se	78	2	He	95.989	1.487	5084	2.09	100	96.0	90	110	
Ti	47	2	He	94.132	1.301	14420	0.56	100	94.1	90	110	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1317522	0.40	1411661	93.33	70	120	
In	115	1	nogas	1601707	1.02	1676050	95.56	70	120	
Li	6	1	nogas	580442	1.18	699034	83.03	70	120	
Bi	209	1	nogas	1674705	5.04	1624905	103.06	70	120	
Ge	72	2	He	394794	0.77	431445	91.50	70	120	
In	115	2	He	620598	0.77	682631	90.91	70	120	

Continuing Calibration Blank (CCB) Report

Sample Table

Sample Name	CCB
Data File Name	086_CCB.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq Date Time	2024-06-19T14:35:12-05:00
Sample Type	CCB
Dilution	1
Comment	
ISTD Ref File Name	010CALB.d
Sample QC Pass/Fail	Fail
ISTD Pass/Fail	Pass

QC Analyte Table

Name	Mass	Tune Step	Tune Mode	Conc	Conc %RSD	CPS	CPS %RSD	Upper Limit	QC Flag
Be	9	1	nogas	0.056	17.6	220	13.6	2.5	
B	11	1	nogas	12.042	18.4	36545	11.5	2.5	CCB Main CR1 Failed
Al	27	1	nogas	-3.021	-2.4	12126	5.3	5	
P	31	1	nogas	-845.739	-1.0	42991	0.2	2.5	
Ti	47	1	nogas	0.096	52.9	250	17.4	2.5	
Ni	60	1	nogas	0.030	88.8	570	12.2	2.5	
Cu	63	1	nogas	0.823	14.1	11308	5.6	5	
Zn	66	1	nogas	-0.408	-45.3	1707	18.0	2.5	
Se	77	1	nogas	-26.098	-9.2	5975	2.7	2.5	
Se	82	1	nogas	-0.264	-87.8	267	9.4	5	
Sr	88	1	nogas	-0.016	-112.4	1067	29.4	2.5	
Mo	95	1	nogas	0.545	25.2	2277	23.0	2.5	
Ag	107	1	nogas	0.025	14.3	363	8.4	2.5	
Cd	111	1	nogas	0.005	531.9	30	135.0	2.5	
Sn	118	1	nogas	0.437	31.0	4501	17.7	2.5	
Sb	121	1	nogas	0.762	25.3	8149	16.8	2.5	
Ba	137	1	nogas	-0.029	-60.8	243	21.1	2.5	
Tl	205	1	nogas	0.272	39.2	5365	42.4	2.5	
Pb	208	1	nogas	-0.027	-79.8	2327	28.2	2.5	
U	238	1	nogas	0.049	50.2	2084	39.9	2.5	
Na	23	2	He	26.541	4.9	76412	2.1	100	
Mg	24	2	He	1.786	18.7	1483	13.8	100	
Al	27	2	He	-2.660	-3.5	540	6.7	5	
K	39	2	He	13.284	12.8	89793	1.5	100	
Ca	43	2	He	-13.478	-25.8	23	24.7	100	
Ca	44	2	He	-6.603	-27.3	553	10.0	100	
V	51	2	He	-0.608	-9.6	-1764	-12.2	2.5	
Cr	52	2	He	-0.788	-8.6	3801	6.9	2.5	
Mn	55	2	He	-0.192	-5.0	583	5.5	2.5	
Fe	56	2	He	3.378	11.5	24911	6.1	100	
Co	59	2	He	0.003	149.0	177	13.1	2.5	
Ni	60	2	He	0.009	9.2	160	0.0	2.5	
Cu	63	2	He	0.009	476.9	590	22.2	5	
Zn	66	2	He	-0.639	-10.5	577	8.2	2.5	
As	75	2	He	0.002	2109.2	239	7.7	2.5	
Sb	121	2	He	0.424	14.6	2404	8.6	2.5	
Se	78	2	He	0.532	30.3	75	12.0	5	
Ti	47	2	He	0.028	354.0	17	91.7	2.5	

QC ISTD Table

Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Ge	72	1	nogas	1309060	0.49	1411661	92.73	70	120	
In	115	1	nogas	1632015	1.54	1676050	97.37	70	120	
Li	6	1	nogas	595330	0.70	699034	85.16	70	120	

Continuing Calibration Blank (CCB) Report

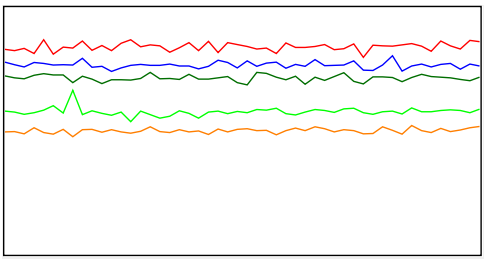
Bi	209	1	nogas	1650321	6.40	1624905	101.56	70	120	
Ge	72	2	He	400222	0.66	431445	92.76	70	120	
In	115	2	He	642499	0.90	682631	94.12	70	120	

Tune Check Report

Operator Name	ALSHS NoUser
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\061924A.b
Acq. Date-Time	6/19/2024 10:56:46 AM
Report Comment	---
Instrument Name	G3281A JP11080910

[nogas]

Sensitivity



Sampling Period [sec]	0.514
Integration Time [sec]	0.1

Mass	Range	Count	Resp [cps/ug/l]	Resp (Required) [cps/ug/l]	Resp (Flag)
9	5000	4207	42073.01		
24	20000	11558	115580.98		
59	20000	15350	153495.53		
115	20000	10016	100155.31		
208	20000	14290	142896.95		

Mass	Resp Ratio	Resp Ratio (Required)	Resp Ratio (Flag)
9		-	
24		-	
59		-	
115		-	
208		-	

Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	1.949	5.000	
24	2.917	5.000	
59	1.645	5.000	
115	1.968	5.000	
208	1.743	5.000	

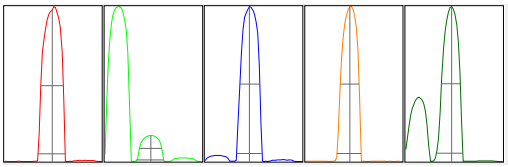
Mass	Background	Background (Required)	Background (Flag)
9	0.100		
24	0.400		
59	1.200		
115	1.300		
208	3.200		

Oxide/Doubly Charged Ratio

Oxide	156 / 140 1.224 %
Doubly Charged	70 / 140 0.919 %

Tune Check Report

Resolution/Axis



Integration Time [sec]	0.1
Acquisition Time [sec]	37.4
Y Axis	Linear

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	4128.84	9.00	8.90 - 9.10	
24	11414.80	23.95	23.90 - 24.10	
59	15598.46	58.90	58.90 - 59.10	
115	10348.94	114.90	114.90 - 115.10	
208	14432.12	207.95	207.90 - 208.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.68	0.831		
24	0.68	0.824		
59	0.61	0.781		
115	0.58	0.738		
208	0.57	0.808		

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.48 L/min	Dilution Gas	0.55 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	---
RF Matching	1.70 V	Nebulizer Pump	0.10 rps	Plasma Gas	---
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.1 V	Deflect	14.0 V
Extract 2	-190.0 V	Cell Entrance	-30 V	Plate Bias	-45 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	190 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9990	QP Bias	-3.0 V
Mass Offset	126	Axis Offset	0.07		

Hardware Settings

Torch

Torch H	0.5 mm	Torch V	-0.7 mm

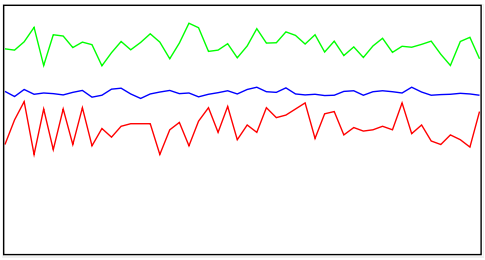
EM

Discriminator	4.5 mV	Analog HV	1717 V	Pulse HV	1511 V

[He]

Tune Check Report

Sensitivity



Sampling Period [sec]	0.306
Integration Time [sec]	0.1

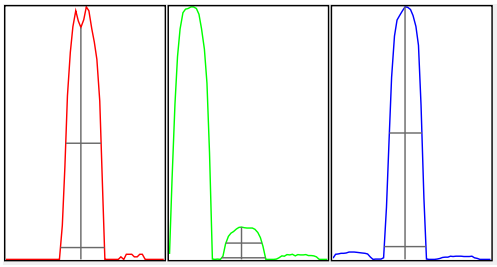
Mass	Range	Count	Resp [cps/ug/l]	Resp (Required) [cps/ug/l]	Resp (Flag)
9	200	102	1024.63		
24	1000	844	8441.89		
59	10000	6503	65029.02		

Mass	Resp Ratio	Resp Ratio (Required)	Resp Ratio (Flag)
9		-	
24		-	
59		-	

Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	11.584	5.000	Fail
24	4.720	5.000	
59	1.597	5.000	

Mass	Background	Background (Required)	Background (Flag)
9			
24			
59			

Resolution/Axis



Integration Time [sec]	0.1
Acquisition Time [sec]	22.24
Y Axis	Linear

Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	90.76	8.95	8.90 - 9.10	
24	851.27	23.90	23.90 - 24.10	
59	6461.27	58.90	58.90 - 59.10	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.66	0.825		
24	0.68	0.816		
59	0.61	0.779		

Tune Parameters

Plasma Parameters

Tune Check Report

Plasma Mode	---	Nebulizer Gas	0.48 L/min	Dilution Gas	0.55 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	---
RF Matching	1.70 V	Nebulizer Pump	0.10 rps	Plasma Gas	---
Sample Depth	8.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.0 V	Deflect	0.4 V
Extract 2	-190.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.8 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	190 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9990	QP Bias	-13.0 V
Mass Offset	126	Axis Offset	0.07		

Hardware Settings

Torch

Torch H	0.5 mm	Torch V	-0.7 mm		

EM

Discriminator	4.5 mV	Analog HV	1717 V	Pulse HV	1511 V

Prep Batch Report

Batch ID:	213707	**Init Sample Weight / Volume:**	10
Prep Code:	Hg_WPr	**Final Sample Volume:**	10
Start Date:	18 Jun 2024 09:00 AM	**Original Factor:**	1
End Date:	18 Jun 2024 12:00 PM	**Prep Unit Factor:**	1
Technician:	Jacob Salome	**Prep Unit:**	mL

Sample ID	Fraction	Matrix	pH	Initial Weight / Volume	Final Volume	Prep Factor	Spike Factor	Comments
HS24060293-04	C	Groundwater		10	10	1	1	
HS24060293-05	C	Groundwater		10	10	1	1	
HS24060293-06	C	Groundwater		10	10	1	1	
HS24060434-02	C	Groundwater		10	10	1	1	
HS24060434-03	C	Groundwater		10	10	1	1	
HS24060434-04	B	Groundwater		10	10	1	1	
HS24060434-05	B	Groundwater		10	10	1	1	
HS24060434-09	A	Groundwater		10	10	1	1	
HS24060434-09MS	A			10	10	1	1	
HS24060434-09MSD	A			10	10	1	1	
HS24060487-01	D	Water		10	10	1	1	
HS24060487-03	B	Water		10	10	1	1	
HS24060487-04	B	Water		10	10	1	1	
HS24060487-05	B	Water		10	10	1	1	
HS24060487-07	D	Water		10	10	1	1	
LCS-213707	A			10	10	1	1	
MBLK-213707	A			10	10	1	1	

Prep Batch Report

Batch ID:	213707	**Init Sample Weight / Volume:**	10
Prep Code:	Hg_WPr	**Final Sample Volume:**	10
Start Date:	18 Jun 2024 09:00 AM	**Original Factor:**	1
End Date:	18 Jun 2024 12:00 PM	**Prep Unit Factor:**	1
Technician:	Jacob Salome	**Prep Unit:**	mL

Stage	Description	Value
200.8PR	Dig. End Temp, C (U)	94
HG	Sample Tube	3111202316
Hg_W	Method for SOP HS-MET004 (7470A / EPA 245.1)	7470A / EPA 245.1
Hg_W	Cal Std ID	CalStd ID -061724
Hg_W	Cal 0.0 vol, mL	0
Hg_W	Cal 0.2 vol, mL	0.10
Hg_W	Cal 0.5 vol, mL	0.25
Hg_W	Cal 2.0 vol, mL	1
Hg_W	Cal 5.0 vol, mL	2.5
Hg_W	Cal 10.0 vol, mL	5
Hg_W	ICV Std vol, mL	0.25
Hg_W	ICB Std vol, mL	0
Hg_W	CCV Std vol, mL	2.5
Hg_W	CCB Std vol, mL	0
Hg_W	Digestion Cup ID	3111202516
Hg_W	Filter ID	N/A
Hg_W	Hotblock ID	HB 1
Hg_W	Thermometer ID	W21857
Hg_W	Thermometer Position	A9
Hg_W	LCS/MS ID:	02- SPK- 061324
Hg_W	LCS Volume, mL	0.5
Hg_W	MS Volume, mL	0.5
Hg_W	H2SO4 ID	311120201819
Hg_W	K2S2O8 ID	PER - 7/3/23
Hg_W	HNO3 ID	3111202304
Hg_W	5% KMnO4 ID	KMNO - 7/3/23
Hg_W	NaCl/Hydroxylamine ID	HYDRO - 7/3/23
Hg_W	Dig. Start Time	13:30PM
Hg_W	Dig. Start Temp, C (U)	94
Hg_W	Dig. Start Temp, C (C)	94
Hg_W	0.5 mL H2SO4 (Time)	YES
Hg_W	0.25 mL HNO3 (Time)	YES
Hg_W	Dig. End Time	15:30PM
Hg_W	1.5 mL 5% KMnO4 (Time)	YES
Hg_W	Dig. End Temp, C (C)	94

Prep Batch Report

Batch ID:	213707	**Init Sample Weight / Volume:**	10
Prep Code:	Hg_WPr	**Final Sample Volume:**	10
Start Date:	18 Jun 2024 09:00 AM	**Original Factor:**	1
End Date:	18 Jun 2024 12:00 PM	**Prep Unit Factor:**	1
Technician:	Jacob Salome	**Prep Unit:**	mL

Stage	Description	Value
Hg_W	0.6 mL NaCl/Hydrox. (Time)	YES
Hg_W	0.8 mL K2S2O8 (Time)	YES
Hg_W	0.5 mL 10% SnCl2 ID	SNCL - 5/16/24
Hg_W	ICCV Std vol, mL	2.5
Hg_W	CRA Std vol, mL	0.1
Hg_W	pH Paper:	30010709607
MET	Pipette #3	HG #12
MET	Pipette #1	ICP#12

Prep Batch Report

Batch ID: 213517
Prep Code: 3010A
Start Date: 13 Jun 2024 04:00 PM
End Date: 13 Jun 2024 08:00 PM
Technician: Dominique Mitchel

Init Sample Weight / Volume: 10
Final Sample Volume: 10
Original Factor: 1
Prep Unit Factor: 1
Prep Unit: mL

Sample ID	Fraction	Matrix	pH	Initial Weight / Volume	Final Volume	Prep Factor	Spike Factor	Comments
HS24060293-04	C	Groundwater	<2	10	10	1	1	DOD
HS24060293-05	C	Groundwater	<2	10	10	1	1	
HS24060293-06	C	Groundwater	<2	10	10	1	1	
HS24060434-02	C	Groundwater	<2	10	10	1	1	
HS24060434-03	C	Groundwater	<2	10	10	1	1	
HS24060434-04	B	Groundwater	<2	10	10	1	1	
HS24060434-05	B	Groundwater	<2	10	10	1	1	
HS24060434-09	A	Groundwater	<2	10	10	1	1	
HS24060434-09MS	A		<2	10	10	1	1	
HS24060434-09MSD	A		<2	10	10	1	1	
HS24060434-09PDS	A		<2	10	10	1	1	
HS24060434-09SD	A		<2	10	10	1	1	
HS24060487-01	D	Water	<2	10	10	1	1	
HS24060487-03	B	Water	<2	10	10	1	1	
HS24060487-04	B	Water	<2	10	10	1	1	
HS24060487-05	B	Water	<2	10	10	1	1	
HS24060487-07	D	Water	<2	10	10	1	1	
LCS-213517	A			10	10	1	1	
MBLK-213517	A			10	10	1	1	

Prep Batch Report

Batch ID:	213517	**Init Sample Weight / Volume:**	10
Prep Code:	3010A	**Final Sample Volume:**	10
Start Date:	13 Jun 2024 04:00 PM	**Original Factor:**	1
End Date:	13 Jun 2024 08:00 PM	**Prep Unit Factor:**	1
Technician:	Dominique Mitchel	**Prep Unit:**	mL

Stage	Description	Value
3010A	Hot Block ID	HB10
3010A	Thermometer ID	942333
3010A	Thermometer Location	F1
3010A	Dig. Cup ID	3111202609
3010A	FilterMate ID	NA
3010A	LCS/MS Spike ID	3111202611
3010A	LCS/MS Volume, mL	0.05
3010A	HNO3 ID	3111-202514
3010A	HCl ID	3111-202416
3010A	Method for HS-MET002 SOP (3010A)	Method SW3010A
3010A	Dig. Start Temp (U)	95
3010A	Dig. Start Temp (C)	95
3010A	Dig. End Temp (U)	95
3010A	Dig. End Temp (C)	95
3010A	pH Paper:	3111201820
MET	Pipette #3	ICP#10(0.05ML)
MET	Pipette #1	MP#11(10ML)/ICP#13 (1ML)

HS24060434 E2400684 Perch Level IV Report

ALS WO# HS24060434

June 25, 2024 Service Request No:E2400684

ALS Group USA, Corp.
10450 Stancliff Road
Suite 210
Houston, TX 77099-4338

Laboratory Results for: HS24060434

Enclosed are the results of the sample(s) submitted to our laboratory June 07, 2024
For your reference, these analyses have been assigned our service request number **E2400684.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current TNI standards, where applicable, and except as noted in the laboratory case narrative provided. All results are intended to be considered in their entirety and ALS Environmental is not responsible for use of less than the complete final report. Results apply only to the items submitted to the laboratory, as received for analysis. In accordance with the current TNI Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2190. You may also contact me via email at hussam.kelany@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

H Kelany

Hussam Kelany
Project Manager

ADDRESS 10450 Stancliff Rd., Suite 210, Houston, TX 77099
PHONE +1 281 530 5656 | FAX +1 281 530 5887
ALS Group USA, Corp.
dba ALS Environmental

Certificate of Analysis

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Client:	ALS Environmental - US	**Service Request No.:**	E2400684
Project:	HS24060434	**Date Received:**	06/07/24
Sample Matrix:	Ground Water		

CASE NARRATIVE

All analyses were performed in adherence to the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Nine samples were received for analysis at ALS Environmental in Houston on 06/07/24.

The samples were received in good condition and are consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2400328: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in addition to a MS/MSD for this extraction batch.

The batch precision (MS/DMS) measurements were determined on an unrelated sample in the extraction batch. The MS/DMS results are not included in this report.

The recoveries for MS and DMS are out of control due to matrix interference.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS group USA Corp dba ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

Client: ALS Environmental - US **Service Request:**E2400684
Project: HS24060434

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2400684-001	MW2_060624	6/6/2024	0655
E2400684-002	18CPTMW01DW_060624	6/6/2024	0740
E2400684-003	18CPTMW01SW_060624	6/6/2024	0830
E2400684-004	102_060624	6/6/2024	0915
E2400684-005	102_060624_a	6/6/2024	0915
E2400684-006	18CPTMW04_060624	6/6/2024	1000
E2400684-007	18CPTMW24_060624	6/6/2024	1045
E2400684-008	MW8_060624	6/6/2024	1130
E2400684-009	18WW14_060624	6/6/2024	1220

Service Request Summary

Folder #: **E2400684**
Client Name: ALS Environmental - US
Project Name: HS24060434
Project Number:

Report To:

ALS Group USA, Corp.
10450 Stancliff Road
Houston, TX 77099-4338
USA

Phone Number: 281-530-5656
Cell Number:
Fax Number: 281-530-5887
E-mail: alsusa_accountspayable@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: MONICA.SMITH
Date Received: 06/07/24
Internal Due Date: 6/19/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: BASIC_WQC_CASNo

11 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 6B
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON ClO4 DOD/6850
E2400684-001	MW2_060624	Ground Water	06/06/24 0655	**IV**
E2400684-002	18CPTMW01DW_060624	Ground Water	06/06/24 0740	**IV**
E2400684-003	18CPTMW01SW_060624	Ground Water	06/06/24 0830	**IV**
E2400684-004	102_060624	Ground Water	06/06/24 0915	**IV**
E2400684-005	102_060624_a	Ground Water	06/06/24 0915	**IV**
E2400684-006	18CPTMW04_060624	Ground Water	06/06/24 1000	**IV**
E2400684-007	18CPTMW24_060624	Ground Water	06/06/24 1045	**IV**
E2400684-008	MW8_060624	Ground Water	06/06/24 1130	**IV**
E2400684-009	18WW14_060624	Ground Water	06/06/24 1220	**IV**

Service Request Summary

Folder #: **E2400684**
Client Name: ALS Environmental - US
Project Name: HS24060434
Project Number:

Report To:

ALS Group USA, Corp.
10450 Stancliff Road
Houston, TX 77099-4338
USA

Phone Number: 281-530-5656
Cell Number:
Fax Number: 281-530-5887
E-mail: alsusa_accountspayable@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: MONICA.SMITH
Date Received: 06/07/24
Internal Due Date: 6/19/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: BASIC_WQC_CASNo

11 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 6B
Pressure Gas:

Data Qualifiers

Lab Standard

+	Possible Tedlar bag artifact.
A	TIC is a suspected aldol-condensation product
B	Analyte found in the associated method blank as well as in the sample.
BC	Reported results are not blank corrected.
BH	The back section of the tube yielded higher results than the front.
BT	Results indicated possible breakthrough; back section >=10% front section.
C	Result identification confirmed.
D	Compound identified in an analysis at a secondary dilution factor
D	Spike was diluted out
DE	Reported results are corrected for desorption efficiency.
E	Estimated value. Concentration above calibration range
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
H1	Sample analysis performed past holding time. See case narrative.
H2	Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
H3	Sample was received and analyzed past holding time.
H4	Sample was extracted past required extraction holding time, but analyzed within analysis holding time. See case narrative.
I	(Auto) The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
I	Internal standard not within the specified limits. See case narrative.
I	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
J	Estimated Value. Concentration found below MRL.
K	A deflection in the QC ion may indicate interference with the quantitation of this ion. The concentration of this analyte should be considered as an estimate.
K	Analyte was detected above the method reporting limit prior to normalization.
K	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
L1	Laboratory control sample recovery outside the specified limits; results may be biased high.
L2	Laboratory control sample recovery outside the specified limits; results may be biased low.
L3	Laboratory control sample recovery outside the specified limits.
M	Matrix interference; results may be biased high.
M	The duplicate injection precision not met.

Data Qualifiers

Lab Standard

M1	Matrix interference due to coelution with a non-target compound; results may be biased high.
N	Presumptive evidence of a compound for TICs that have been identified based on a mass spectral library search.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
P	Indicates chlorodiphenyl ether interference present at the retention time of the target compound.
P	Pesticide/Aroclor target analyte > 40% difference for detected concentrations between GC columns
Q	Indicates as estimated value because the P and P + 2 theoretical abundance ratio does not meet method criteria.
R	Duplicate Precision not met.
R1	Duplicate precision not within the specified limits; however, the results are below the MRL and considered estimated.
S	Surrogate recovery not within specified limits.
S	The reported value was determined by the Method of Standard Additions (MSA).
T	Analyte is a tentatively identified compound, result is estimated.
U	Compound was analyzed for, but was not detected (ND).
V1	The continuing calibration verification standard was outside (biased high) the specified limits for this compound.
V2	The continuing calibration verification standard was outside (biased low) the specified limits for this compound.
W	Result quantified, but the corresponding peak was detected outside the generated retention time window.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
X	See case narrative.
Y	Recovery outside limits
Y	The chromatogram resembles a petroleum product but does not match the calibration standard.
Z	The chromatogram does not resemble a petroleum product.
i	The MRL/MDL has been elevated due to a matrix interference.

ALS Laboratory Group

Acronyms

Cal	Calibration
Conc	CONCentration
Dioxin(s)	Polychlorinated dibenzo-p-dioxin(s)
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
Flags	Data qualifiers
Furan(s)	Polychlorinated dibenzofuran(s)
g	Grams
ICAL	Initial CALibration
ID	IDentifier
Ions	Masses monitored for the analyte during data acquisition
L	Liter (s)
LCS	Laboratory Control Sample
DLCS	Duplicate Laboratory Control Sample
MB	Method Blank
MCL	Method Calibration Limit
MDL	Method Detection Limit
mL	Milliliters
MS	Matrix Spiked sample
DMS	Duplicate Matrix Spiked sample
NO	Number of peaks meeting all identification criteria
PCDD(s)	Polychlorinated dibenzo-p-dioxin(s)
PCDF(s)	Polychlorinated dibenzofuran(s)
ppb	Parts per billion
ppm	Parts per million
ppq	Parts per quadrillion
ppt	Parts per trillion
QA	Quality Assurance
QC	Quality Control
Ratio	Ratio of areas from monitored ions for an analyte
% Rec.	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SDG	Sample Delivery Group
S/N	Signal-to-noise ratio
TEF	Toxicity Equivalence Factor
TEQ	Toxicity Equivalence Quotient

10450 Stancliff Rd, Houston, TX 77099 | 281-530-5656 | www.alsglobal.com

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arkansas Department of Environmental Quality	88-00356	3/28/2025
California State Environmental Laboratory Accreditation Program	2919-2024	4/30/2025
Department of Defense	L24-240	4/30/2026
Florida Department of Health	E87611-38	6/30/2024
Hawaii Department of Health	2024	4/30/2025
Illinois Environmental Protection Agency	2000322023-11	6/30/2024
Kansas Department of Health and Environment	E-10352 2023-2024	7/31/2024
Louisiana Department of Environmental Quality	03087-2023	6/30/2024
Louisiana Department of Health and Hospitals	LA028-2024	12/31/2024
Maryland Department of the Environment	343-2023	6/30/2024
Minnesota Department of Health	2645386	12/31/2024
Nevada Division of Environmental Protection	TX026932024-1	7/31/2024
New Hampshire Environmental Laboratory Accreditation Program	209424-A	4/24/2025
New Jersey Department of Environmental Protection	TX008-2024	6/30/2024
Oklahoma Department of Environmental Quality	2023-140	8/31/2024
Oregon Environmental Laboratory Accreditation Program	TX200002-2024	5/15/2025
Pennsylvania Department of Environmental Protection	68-03441-017	6/30/2024
Tennessee Department of Environment and Conservation	04016-2024	4/30/2025
Texas Commision on Environmental Quality	TX-C24-00130	4/30/2025
Utah Department of Health Environmental Laboratory Certification	TX026932023-14	7/31/2024
Washington Department of Ecology	C819-23	11/14/2024

Chain of Custody

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

E2400684 5
ALS Laboratory Group
HS24060434

10450 Stancliff Rd, Ste 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

Subcontract Chain of Custody

SAMPLING STATE: **Texas** **COC ID:** **25933**

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	Luis.Aguilar
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	luis.aguilar@alsglobal.com
Alternate Contact:	Jumoke M. Lawal
Email:	jumoke.lawal@alsglobal.com

INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	HS24060434
TSR:	Sonia West

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24060434-01**	**MW2_060624**	**Groundwater**	**06 Jun 2024 06:55**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			21 Jun 2024
2.	**HS24060434-02**	**18CPTMW01DW_060624**	**Groundwater**	**06 Jun 2024 07:40**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			21 Jun 2024
3.	**HS24060434-03**	**18CPTMW01SW_060624**	**Groundwater**	**06 Jun 2024 08:30**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			21 Jun 2024
4.	**HS24060434-04**	**102_060624**	**Groundwater**	**06 Jun 2024 09:15**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			21 Jun 2024
5.	**HS24060434-05**	**102_060624_a**	**Groundwater**	**06 Jun 2024 09:15**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			21 Jun 2024
6.	**HS24060434-06**	**18CPTMW04_060624**	**Groundwater**	**06 Jun 2024 10:00**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			21 Jun 2024
7.	**HS24060434-07**	**18CPTMW24_060624**	**Groundwater**	**06 Jun 2024 10:45**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			21 Jun 2024
8.	**HS24060434-08**	**MW8_060624**	**Groundwater**	**06 Jun 2024 11:30**

Subcontract Chain of Custody

SAMPLING STATE: **Texas** **COC ID:** **25933**

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			21 Jun 2024
9.	**HS24060434-09**	**18WW14_060624**	**Groundwater**	**06 Jun 2024 12:20**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			21 Jun 2024

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.
MS/MSD on Sample-9

QC Level: DOD IV (DoD Data Package)

Relinquished By: _____ Date/Time: 6-14-24 1745

Received By: _____ Date/Time: _____

Cooler ID(s): _____ Temperature(s): _____

E2400684 5
ALS Laboratory Group
HS24060434

10450 Stancliff Rd, Ste 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

Sample Receipt Checklist

Work Order ID: HS24060434 **Date/Time received:** 07 Jun 2024 09:15

Client name: Bhate Environmental Associates, Inc. **Received by:** Jacob Coronado

Completed/By: 07 Jun 2024 17:23 Jacob Coronado **Reviewed/By:**
Date/Time eSignature Date/Time eSignature

Matrices: W **Carrier name:** FedEx

Shipping container/cooler in good condition?	☑ Yes	☐ No	☐ Not Present	
Custody seals intact on shipping container/cooler?	☑ Yes	☐ No	☐ Not Present	
Custody seals intact on Sample bottles?	☐ Yes	☐ No	☑ Not Present	
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	☐ Yes	☐ No	☑ Not Present	
Chain of custody present?	☑ Yes	☐ No	2 Page(s)	
Chain of custody signed when relinquished and received?	☑ Yes	☐ No	COC ID(s):	
Samplers name present on COC?	☑ Yes	☐ No		
Chain of custody agrees with sample labels?	☑ Yes	☐ No		
Samples in proper container/bottle?	☑ Yes	☐ No		
Sample containers intact?	☑ Yes	☐ No		
Sufficient sample volume for indicated test?	☑ Yes	☐ No		
All samples received within holding time?	☑ Yes	☐ No		
Container/Temp Blank temperature in compliance?	☑ Yes	☐ No		

Temperature(s)/Thermometer(s): 3.1UC/3.2C IR31

Cooler Information: 1 Cooler(s), 50567

Date/Time sample(s) sent to storage: 06/07/2024 1724

Water - VOA vials have zero headspace?	☑ Yes	☐ No	☐ No VOA vials submitted
Water - pH acceptable upon receipt?	☑ Yes	☐ No	☐ Not Applicable
pH adjusted?	☐ Yes	☑ No	☐ Not Applicable

pH adjusted by:

Login notes:

Client contacted: **Date contacted:** **Person contacted:**

Contacted by: **Regarding:**

Comments:

Corrective action:

10450 Stancliff Rd., Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

SAMPLE ACCEPTANCE POLICY

This policy outlines the criteria samples must meet to be accepted by ALS Environmental – Houston HRMS.

Cooler Custody Seals (desirable, mandatory if specified in SAP):

- ✓ Intact on outside of cooler, signed and dated

Chain-of-Custody (COC) documentation (mandatory):

The following is required on each COC:

- ✓ Sample ID, the location, date and time of collection, collector's name, preservation type, sample type, and any other special remarks concerning the sampleThe COC must be completed in ink.
- ✓ Signature and date of relinquishing party.

In the absence of a COC at sample receipt, the COC will be requested from the client.

Sample Integrity (mandatory):

Samples are inspected upon arrival to ensure that sample integrity was not compromised during transfer to the laboratory.

- ✓ Sample containers must arrive in good condition (not broken or leaking).
- ✓ Samples must be labeled appropriately, including Sample IDs, and requested test using durable labels and indelible ink.
- ✓ The correct type of sample bottle must be used for the method requested.
- ✓ An appropriate sample volume, or weight, must be received.
- ✓ Sample IDs and number of containers must reconcile with the COC.
- ✓ Samples must be received within the method defined holding time.

Temperature Requirement (varies by sample matrix):

- ✓ Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6ºC.
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10ºC.
- ✓ Air samples are shipped and stored cold, at 0 to 6ºC
- ✓ The sample temperature must be recorded on the COC

All cooler inspections are documented on the Cooler Receipt Form (CRF). A separate CRF is completed for each service request. Any samples not meeting the above criteria are noted on the CRF and the Project Manager notified. The Project Manager must resolve any sample integrity issues with the client prior to proceeding with the analysis. Such resolutions are documented in writing and filed with the project folder. Data associated with samples received outside of this acceptance policy will be qualified on the case narrative of the final report

Preparation Information Benchsheets

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Preparation Information Benchsheet

Prep Run#: 440258 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** Method **Prep Date/Time:** 6/19/24 08:43

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2400682-001	18CPTMW04SW_060724	.01	6850/ClO4 DOD			Water	10mL	
2	E2400682-002	18CPTMW04_060724	.01	6850/ClO4 DOD			Water	10mL	
3	E2400682-003	AWD3_060724	.01	6850/ClO4 DOD			Water	10mL	
4	E2400682-004	MW1_060724	.01	6850/ClO4 DOD			Water	10mL	
5	E2400682-005	MW1_060724_a	.01	6850/ClO4 DOD			Water	10mL	
6	E2400682-006	18ww06_060724	.01	6850/ClO4 DOD			Water	10mL	
7	E2400682-007	18ww02_060724	.01	6850/ClO4 DOD			Water	10mL	
8	E2400682-008	18CPTMW23SW_060724	.01	6850/ClO4 DOD			Water	10mL	
9	E2400682-009	18CPTMW23_060724	.02	6850/ClO4 DOD			Water	10mL	
10	E2400684-001	MW2_060624	.01	6850/ClO4 DOD			Ground Water	10mL	
11	E2400684-002	18CPTMW01DW_060624	.01	6850/ClO4 DOD			Ground Water	10mL	
12	E2400684-003	18CPTMW01SW_060624	.01	6850/ClO4 DOD			Ground Water	10mL	
13	E2400684-004	102_060624	.01	6850/ClO4 DOD			Ground Water	10mL	
14	E2400684-005	102_060624_a	.01	6850/ClO4 DOD			Ground Water	10mL	
15	E2400684-006	18CPTMW04_060624	.01	6850/ClO4 DOD			Ground Water	10mL	
16	E2400684-007	18CPTMW24_060624	.01	6850/ClO4 DOD			Ground Water	10mL	
17	E2400684-008	MW8_060624	.01	6850/ClO4 DOD			Ground Water	10mL	
18	E2400684-009	18WW14_060624	.01	6850/ClO4 DOD			Ground Water	10mL	
19	EQ2400328-01	MB		6850/ClO4 DOD			Liquid	10mL	
20	EQ2400328-02	LCS		6850/ClO4 DOD			Liquid	10mL	
21	EQ2400328-03	DLCS		6850/ClO4 DOD			Liquid	10mL	
22	EQ2400328-04	ICS		6850/ClO4 DOD			Liquid	10mL	
23	EQ2400328-05	18WW14_060624 MS	.01	6850/ClO4 DOD			Liquid	10mL	
24	EQ2400328-06	18WW14_060624 DMS	.01	6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Intermediate Stock 2 Inventory ID 233555 Logbook Ref: Perchlorate INT. Stock2 Expires On: 08/05/2024

EQ2400328-02	10.00µL	EQ2400328-03	10.00µL	EQ2400328-04	10.00µL	EQ2400328-05	10.00µL	EQ2400328-06	10.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 235428 Logbook Ref: Perchlorate IS cg5/24/24 Expires On: 11/24/2024

E2400682-001	100.00µL	E2400682-002	100.00µL	E2400682-003	100.00µL	E2400682-004	100.00µL	E2400682-005	100.00µL	E2400682-006	100.00µL
E2400682-007	100.00µL	E2400682-008	100.00µL	E2400682-009	100.00µL	E2400684-001	100.00µL	E2400684-002	100.00µL	E2400684-003	100.00µL
E2400684-004	100.00µL	E2400684-005	100.00µL	E2400684-006	100.00µL	E2400684-007	100.00µL	E2400684-008	100.00µL	E2400684-009	100.00µL
EQ2400328-01	100.00µL	EQ2400328-02	100.00µL	EQ2400328-03	100.00µL	EQ2400328-04	100.00µL	EQ2400328-05	100.00µL	EQ2400328-06	100.00µL

Preparation Information Benchsheet

Prep Run#: 440258 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** Method **Prep Date/Time:** 6/19/24 08:43

Preparation Materials

6850 0.45um syringe filters	6850 0.45 SYRING FILTER (229979)	6850 Luer-Lok Syringes	Luer Lok Syringes (231696)

Preparation Steps

Step: Preparation
Started: 6/19/24 08:43
Finished: 6/19/24 12:57
By: JOSEL.JUAREZ
Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined

Received By: _____ Date: _____ Yes No

Analytical Results

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400684
Project:	HS24060434	**Date Collected:**	6/ 6/24 0655
Sample Matrix:	Ground Water	**Date Received:**	6/ 7/24
Sample Name:	MW2_060624	**Units:**	µg/L
Lab Code:	E2400684-001	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.121**		0.100	0.0500	0.0250	1	6/19/24	6/19/24 16:42	440258	844810	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400684
Project:	HS24060434	**Date Collected:**	6/ 6/24 0740
Sample Matrix:	Ground Water	**Date Received:**	6/ 7/24
Sample Name:	18CPTMW01DW_060624	**Units:**	µg/L
Lab Code:	E2400684-002	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	6/19/24	6/19/24 14:43	440258	844810	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400684
Project:	HS24060434	**Date Collected:**	6/ 6/24 0830
Sample Matrix:	Ground Water	**Date Received:**	6/ 7/24
Sample Name:	18CPTMW01SW_060624	**Units:**	µg/L
Lab Code:	E2400684-003	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	6/19/24	6/19/24 14:49	440258	844810	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400684
Project:	HS24060434	**Date Collected:**	6/ 6/24 0915
Sample Matrix:	Ground Water	**Date Received:**	6/ 7/24
Sample Name:	102_060624	**Units:**	µg/L
Lab Code:	E2400684-004	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**29.6**		0.100	0.0500	0.0250	1	6/19/24	6/19/24 14:55	440258	844810	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400684
Project:	HS24060434	**Date Collected:**	6/ 6/24 0915
Sample Matrix:	Ground Water	**Date Received:**	6/ 7/24
Sample Name:	102_060624_a	**Units:**	µg/L
Lab Code:	E2400684-005	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**31.4**		0.100	0.0500	0.0250	1	6/19/24	6/19/24 15:00	440258	844810	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400684
Project:	HS24060434	**Date Collected:**	6/ 6/24 1000
Sample Matrix:	Ground Water	**Date Received:**	6/ 7/24
Sample Name:	18CPTMW04_060624	**Units:**	µg/L
Lab Code:	E2400684-006	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**1.45**		0.100	0.0500	0.0250	1	6/19/24	6/19/24 16:48	440258	844810	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400684
Project:	HS24060434	**Date Collected:**	6/ 6/24 1045
Sample Matrix:	Ground Water	**Date Received:**	6/ 7/24
Sample Name:	18CPTMW24_060624	**Units:**	µg/L
Lab Code:	E2400684-007	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**51.8**		1.00	0.500	0.250	10	6/19/24	6/20/24 10:23	440258	844983	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400684
Project:	HS24060434	**Date Collected:**	6/ 6/24 1130
Sample Matrix:	Ground Water	**Date Received:**	6/ 7/24
Sample Name:	MW8_060624	**Units:**	µg/L
Lab Code:	E2400684-008	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**9260**		100	50.0	25.0	1000	6/19/24	6/20/24 10:29	440258	844983	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400684
Project:	HS24060434	**Date Collected:**	6/ 6/24 1220
Sample Matrix:	Ground Water	**Date Received:**	6/ 7/24
Sample Name:	18WW14_060624	**Units:**	µg/L
Lab Code:	E2400684-009	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.808**		0.100	0.0500	0.0250	1	6/19/24	6/19/24 15:33	440258	844810	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400684
Project:	HS24060434	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2400328-01	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	6/19/24	6/19/24 13:09	440258	844810	

Accuracy & Precision

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400684
Project:	HS24060434	**Date Analyzed:**	06/19/24
Sample Matrix:	Ground Water	**Date Extracted:**	06/19/24

Duplicate Lab Control Sample Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analysis Method:	6850	**Units:**	ug/L
Prep Method:	Method	**Basis:**	NA
		Analysis Lot:	844810

	Lab Control Sample EQ2400328-02			Duplicate Lab Control Sample EQ2400328-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.102	0.100	102	0.113	0.100	113	84-119	10	15

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400684
Project:	HS24060434	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400328-02	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.102**		0.100	0.0500	0.0250	1	6/19/24	6/19/24 13:15	440258	844810	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400684
Project:	HS24060434	**Date Collected:**	NA
Sample Matrix:	Ground Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400328-03	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.113**		0.100	0.0500	0.0250	1	6/19/24	6/19/24 13:20	440258	844810	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400684
Project:	HS24060434	**Date Collected:**	06/06/24
Sample Matrix:	Ground Water	**Date Received:**	06/07/24
		Date Analyzed:	06/19/24
		Date Extracted:	06/19/24

Duplicate Matrix Spike Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Sample Name:	18WW14_060624	**Units:**	ug/L
Lab Code:	E2400684-009	**Basis:**	NA
Analysis Method:	6850		
Prep Method:	Method		

		Matrix Spike			Duplicate Matrix Spike					
		EQ2400328-05			EQ2400328-06					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.808	0.987	0.100	178 #	0.967	0.100	159 #	84-119	2	15

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400684
Project:	HS24060434	**Date Collected:**	6/ 6/24 1220
Sample Matrix:	Ground Water	**Date Received:**	6/ 7/24
Sample Name:	18WW14_060624	**Units:**	µg/L
Lab Code:	EQ2400328-05	**Basis:**	NA
Run Type:	Matrix Spike		

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.987**		0.100	0.0500	0.0250	1	6/19/24	6/19/24 13:26	440258	844810	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400684
Project:	HS24060434	**Date Collected:**	6/ 6/24 1220
Sample Matrix:	Ground Water	**Date Received:**	6/ 7/24
Sample Name:	18WW14_060624	**Units:**	µg/L
Lab Code:	EQ2400328-06	**Basis:**	NA
Run Type:	Duplicate Matrix Spike		

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.967**		0.100	0.0500	0.0250	1	6/19/24	6/19/24 13:31	440258	844810	

Initial Calibration

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 210, Houston, TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

843806

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240611-001	IB	Perchlorate6850c.lcm	1x		6/11/2024 15:40
2	20240611-002	Perchlorate ICAL 1	Perchlorate6850c.lcm	1x		6/11/2024 15:46
3	20240611-003	Perchlorate ICAL 2	Perchlorate6850c.lcm	1x		6/11/2024 15:52
4	20240611-004	Perchlorate ICAL 3	Perchlorate6850c.lcm	1x		6/11/2024 15:57
5	20240611-005	Perchlorate ICAL 4	Perchlorate6850c.lcm	1x		6/11/2024 16:03
6	20240611-006	Perchlorate ICAL 5	Perchlorate6850c.lcm	1x		6/11/2024 16:08
7	20240611-007	Perchlorate ICAL 6	Perchlorate6850c.lcm	1x		6/11/2024 16:14
8	20240611-008	Perchlorate ICAL 7	Perchlorate6850c.lcm	1x		6/11/2024 16:19
9	20240611-009	Perchlorate ICAL 8	Perchlorate6850c.lcm	1x		6/11/2024 16:25
10	20240611-010	Perchlorate ICAL 9	Perchlorate6850c.lcm	1x		6/11/2024 16:30
11	20240611-011	Perchlorate ICAL 10	Perchlorate6850c.lcm	1x		6/11/2024 16:36
12	20240611-012	PerchlorateICV	Perchlorate6850c.lcm	1x		6/11/2024 16:42
13	20240611-013	IB	Perchlorate6850c.lcm	1x		6/11/2024 16:47
14	20240611-014	LODV	Perchlorate6850c.lcm	1x		6/11/2024 16:53
15	20240611-015	ICS	Perchlorate6850c.lcm	1x		6/11/2024 16:58
16	20240611-016	CCV	Perchlorate6850c.lcm	1x		6/11/2024 17:04
17	20240611-017	IB	Perchlorate6850c.lcm	1x		6/11/2024 17:09
18	20240611-018	EQ2400303-001	Perchlorate6850c.lcm	1x		6/11/2024 17:15
19	20240611-019	EQ2400303-002	Perchlorate6850c.lcm	1x		6/11/2024 17:20
20	20240611-020	EQ2400303-003	Perchlorate6850c.lcm	1x		6/11/2024 17:26
21	20240611-021	EQ2400303-004	Perchlorate6850c.lcm	1x		6/11/2024 17:31
22	20240611-022	EQ2400303-005	Perchlorate6850c.lcm	1x		6/11/2024 17:37
23	20240611-023	E2400629-001	Perchlorate6850c.lcm	1x		6/11/2024 17:42
24	20240611-024	E2400647-001	Perchlorate6850c.lcm	1x		6/11/2024 17:48
25	20240611-025	E2400647-002	Perchlorate6850c.lcm	1x		6/11/2024 17:54
26	20240611-026	E2400647-003	Perchlorate6850c.lcm	1x		6/11/2024 17:59
27	20240611-027	E2400647-004	Perchlorate6850c.lcm	1x		6/11/2024 18:05
28	20240611-028	CCV	Perchlorate6850c.lcm	1x		6/11/2024 18:10
29	20240611-029	IB	Perchlorate6850c.lcm	1x		6/11/2024 18:16
30	20240611-030	E2400647-005	Perchlorate6850c.lcm	1x		6/11/2024 18:21
31	20240611-031	E2400647-006	Perchlorate6850c.lcm	1x		6/11/2024 18:27
32	20240611-032	E2400650-001	Perchlorate6850c.lcm	1x	DNU needs DL	6/11/2024 18:32
33	20240611-033	E2400650-002	Perchlorate6850c.lcm	1x	DNU needs DL	6/11/2024 18:38
34	20240611-034	E2400650-003	Perchlorate6850c.lcm	1x	DNU needs DL	6/11/2024 18:43
35	20240611-035	E2400650-004	Perchlorate6850c.lcm	1x	DNU RI possible C/O	6/11/2024 18:49
36	20240611-036	E2400650-005	Perchlorate6850c.lcm	1x	DNU RI possible C/O	6/11/2024 18:54
37	20240611-037	E2400650-006	Perchlorate6850c.lcm	1x		6/11/2024 19:00
38	20240611-038	CCV	Perchlorate6850c.lcm	1x		6/11/2024 19:06
39	20240611-039	IB	Perchlorate6850c.lcm	1x		6/11/2024 19:11
40			Perchlorate6850c.lcm	1x		

843806

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
41			Perchlorate6850c.lcm	1x		
42			Perchlorate6850c.lcm	1x		
43			Perchlorate6850c.lcm	1x		
44			Perchlorate6850c.lcm	1x		
45			Perchlorate6850c.lcm	1x		
46			Perchlorate6850c.lcm	1x		
47			Perchlorate6850c.lcm	1x		

Initial Calibration - Detailed Report

Calibration ID: EC2400009 **Instrument ID:** E-LCMS-01
Column Name: 1

#	Lab Code	Sample Name	File Location	Aquisition Date
01	EC2400009-01	Perchlorate ICAL 1	20240611-002	06/11/2024 15:46
02	EC2400009-02	Perchlorate ICAL 2	20240611-003	06/11/2024 15:52
03	EC2400009-03	Perchlorate ICAL 3	20240611-004	06/11/2024 15:57
04	EC2400009-04	Perchlorate ICAL 4	20240611-005	06/11/2024 16:03
05	EC2400009-05	Perchlorate ICAL 5	20240611-006	06/11/2024 16:08
06	EC2400009-06	Perchlorate ICAL 6	20240611-007	06/11/2024 16:14
07	EC2400009-07	Perchlorate ICAL 7	20240611-008	06/11/2024 16:19
08	EC2400009-08	Perchlorate ICAL 8	20240611-009	06/11/2024 16:25
09	EC2400009-09	Perchlorate ICAL 9	20240611-010	06/11/2024 16:30
10	EC2400009-10	Perchlorate ICAL 10	20240611-011	06/11/2024 16:36

Analyte **Curve Fit** **Weighting**

Perchlorate **Average RF** **RSD = 5.222** **Average RF = 0.146**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.1000	0.1359	02	0.5000	0.1389	03	0.7000	0.1344	04	1.0000	0.1446
05	2.0000	0.1447	06	5.0000	0.1567	07	10.0000	0.1526	08	20.0000	0.1528
09	30.0000	0.1488	10	50.0000	0.1506						

Analyte

Perchlorate RSE = 5.22

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.1000	0.0931	-6.9	02	0.5000	0.476	-4.9	03	0.7000	0.644	-7.9
04	1.0000	0.990	-1.0	05	2.0000	1.98	-0.9	06	5.0000	5.37	7.3
07	10.0000	10.5	4.5	08	20.0000	20.9	4.7	09	30.0000	30.6	1.9
10	50.0000	51.6	3.1								

Initial Calibration Verification Summary Report

Calibration ID:	EC2400009	**Instrument ID:**	E-LCMS-01
Datafile ID:	20240611-012	**Column Name:**	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Perchlorate	EC2400009-11	T	Average RF	10	10.282	ng/mL	2.8	<= 15

Insight Report

Printed at 6/12/2024 8:45:04 AM

Method File: I:\LCMS01\DATA\20240611\202405611_ICAL.lcm
Project File: I:\LCMS01\DATA\20240611\20240611_ICAL.damlp

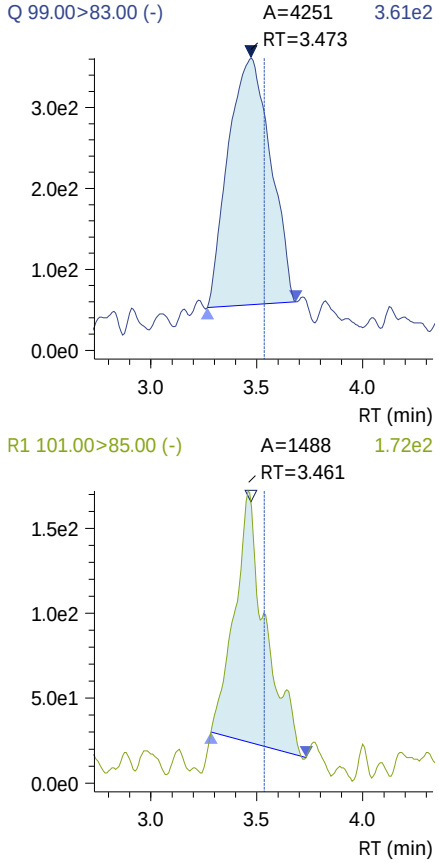
Perchlorate ICAL 1

Sample ID: Perchlorate ICAL 1
Date Acquired: 6/11/2024 3:46:30 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-002.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.473	4251	312768	0.0931	ng/mL	101.00 >85.00	35.01	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.453	312768	312768	1.0000	ng/mL	----	----	

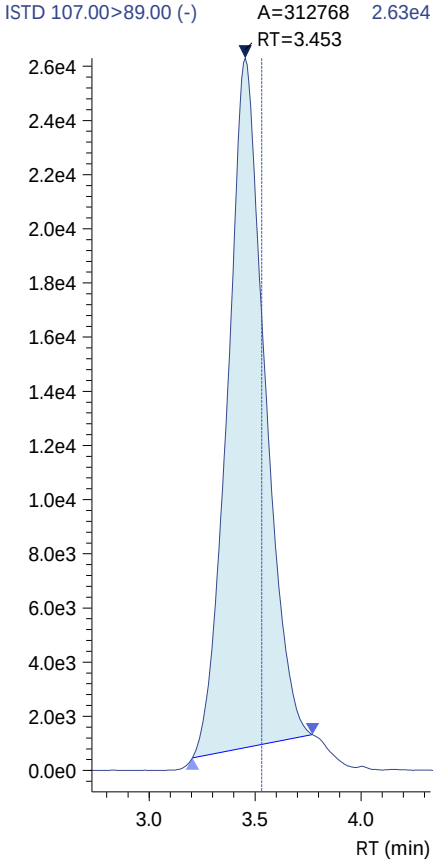
Perchlorate

Conc 0.0931
R#1 35.01 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

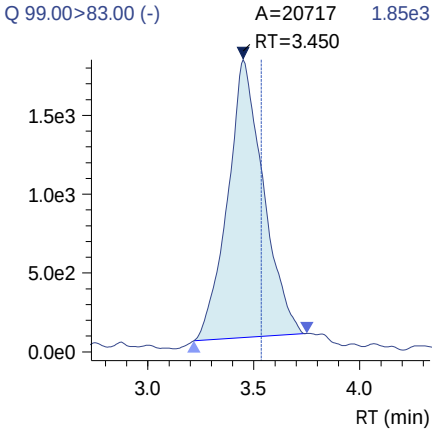
Perchlorate ICAL 2

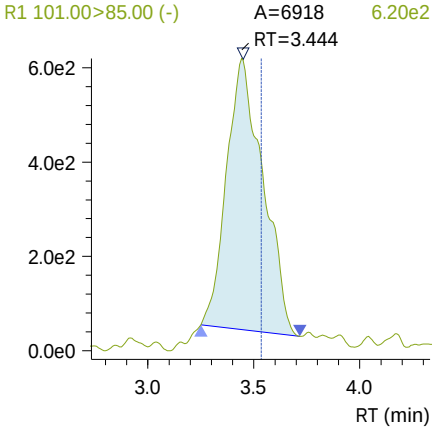
Sample ID: Perchlorate ICAL 2
Date Acquired: 6/11/2024 3:52:02 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-003.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.450	20717	298266	0.4757	ng/mL	101.00 >85.00	33.39	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.455	298266	298266	1.0000	ng/mL	----	----	

Perchlorate

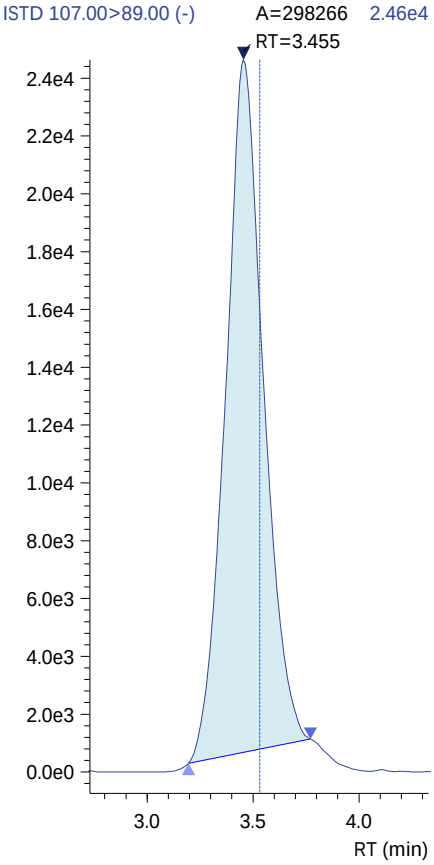
Conc 0.4757
R#1 33.39 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

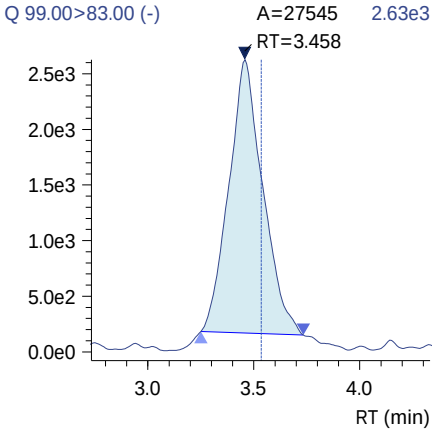
Perchlorate ICAL 3

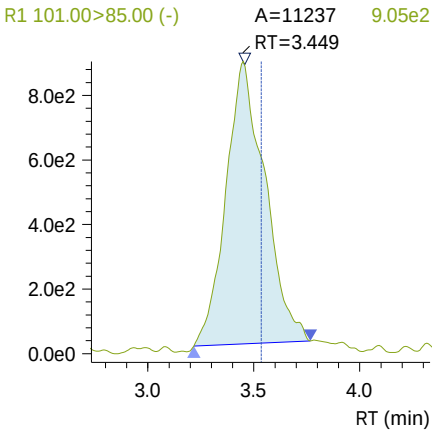
Sample ID: Perchlorate ICAL 3
Date Acquired: 6/11/2024 3:57:35 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-004.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.458	27545	292777	0.6444	ng/mL	101.00 >85.00	40.79	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.459	292777	292777	1.0000	ng/mL	----	----	

Perchlorate

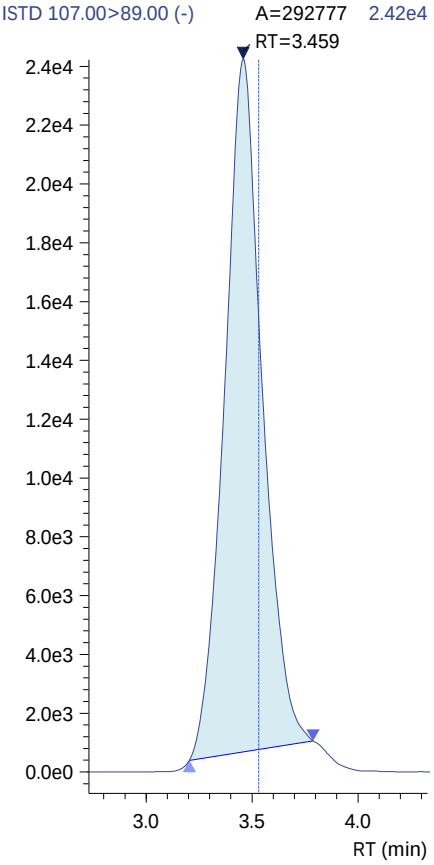
Conc 0.6444
R#1 40.79 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

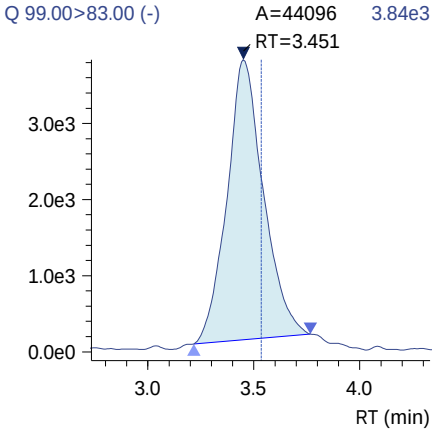
Perchlorate ICAL 4

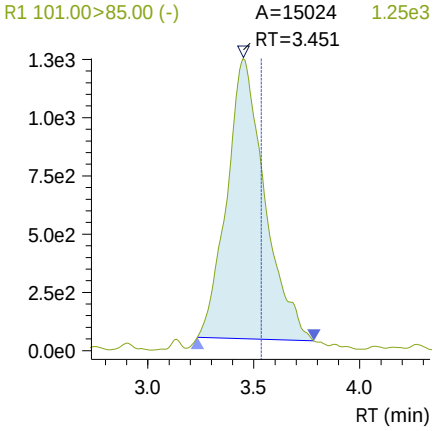
Sample ID: Perchlorate ICAL 4
Date Acquired: 6/11/2024 4:03:10 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-005.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.451	44096	304940	0.9904	ng/mL	101.00 >85.00	34.07	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.454	304940	304940	1.0000	ng/mL	----	----	

Perchlorate

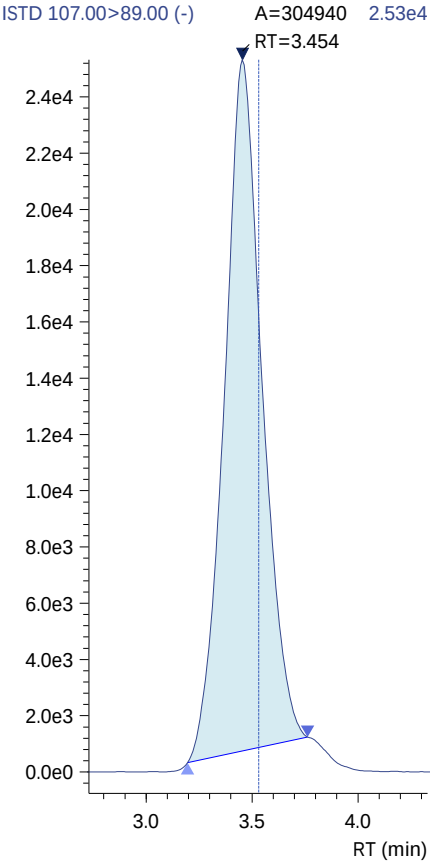
Conc 0.9904
R#1 34.07 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

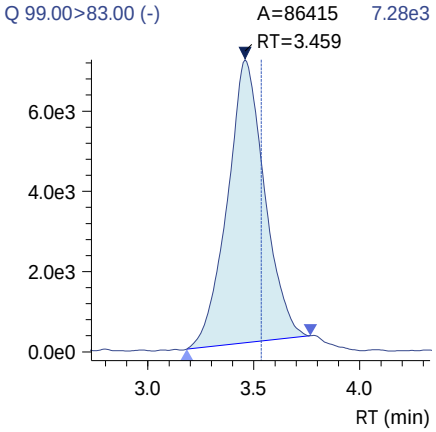
Perchlorate ICAL 5

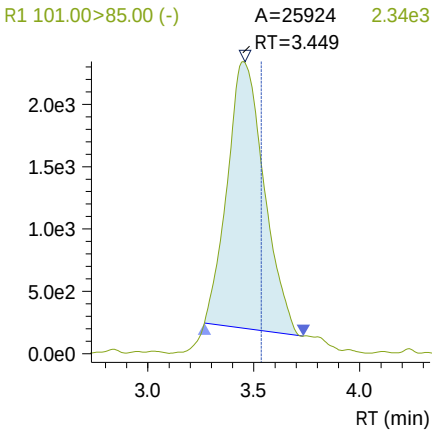
Sample ID: Perchlorate ICAL 5
Date Acquired: 6/11/2024 4:08:45 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-006.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.459	86415	298543	1.9825	ng/mL	101.00 >85.00	30.00	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.454	298543	298543	1.0000	ng/mL	----	----	

Perchlorate

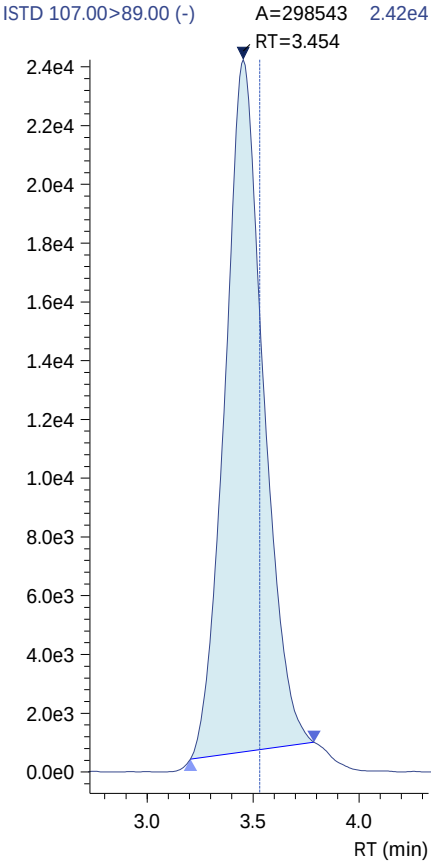
Conc 1.9825
R#1 30.00 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

Perchlorate ICAL 6

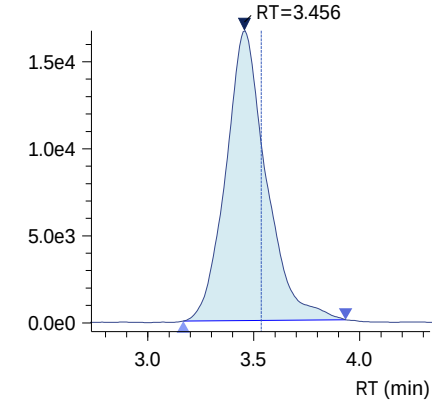
Sample ID: Perchlorate ICAL 6
Date Acquired: 6/11/2024 4:14:20 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-007.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.456	221568	282809	5.3659	ng/mL	101.00 >85.00	32.17	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.453	282809	282809	1.0000	ng/mL	----	----	

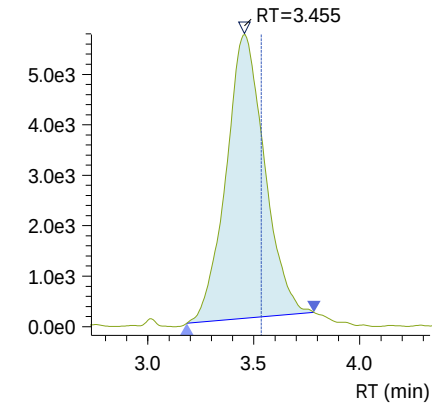
Perchlorate

Conc 5.3659
R#1 32.17 (34.10)

Q 99.00>83.00 (-) A=221568 1.68e4
RT=3.456



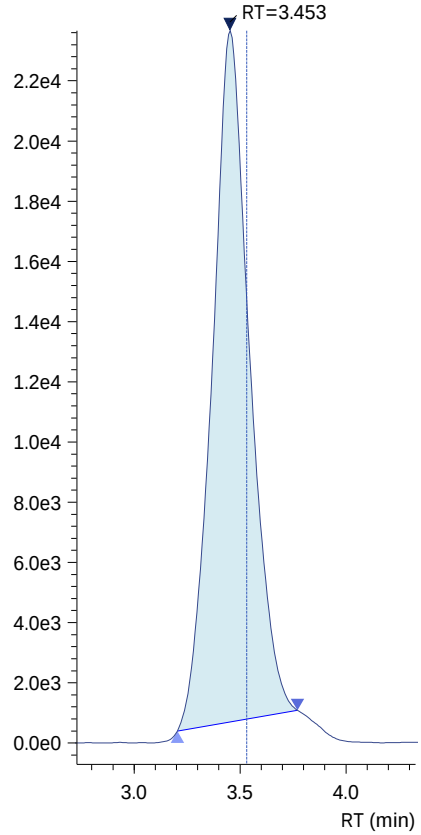
R1 101.00>85.00 (-) A=71270 5.79e3
RT=3.455



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=282809 2.37e4
RT=3.453



Insight Report

Printed at 6/12/2024 8:45:04 AM

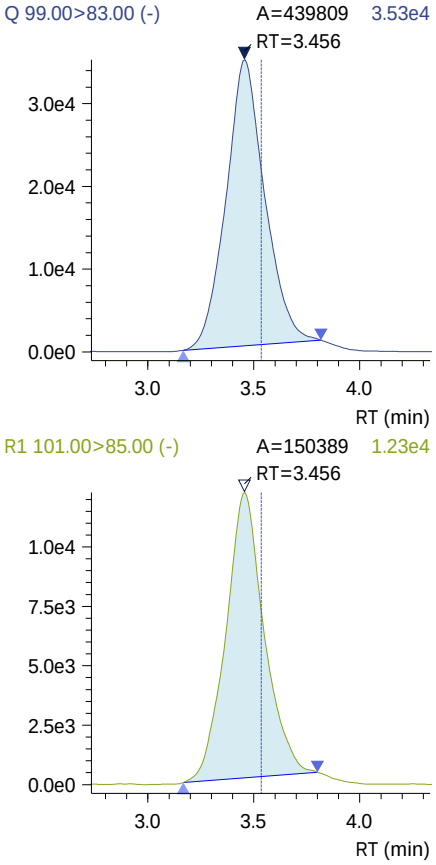
Perchlorate ICAL 7

Sample ID: Perchlorate ICAL 7
Date Acquired: 6/11/2024 4:19:54 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-008.lcd
Vial: 7 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.456	439809	288244	10.4505	ng/mL	101.00 >85.00	34.19	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.455	288244	288244	1.0000	ng/mL	----	----	

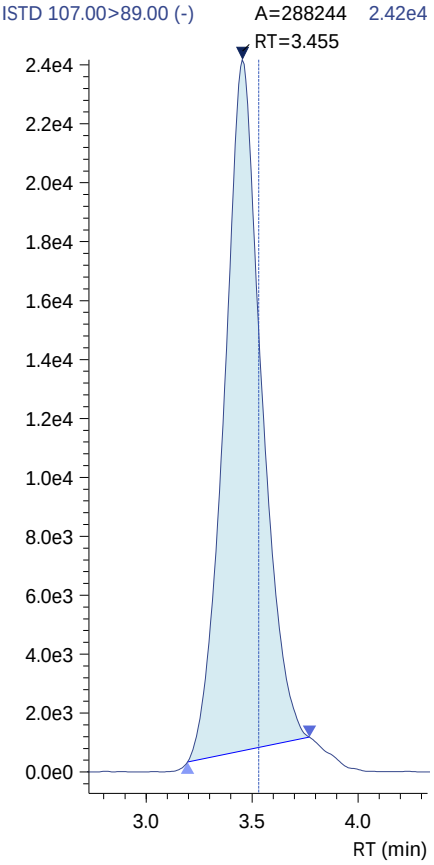
Perchlorate

Conc 10.4505
R#1 34.19 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

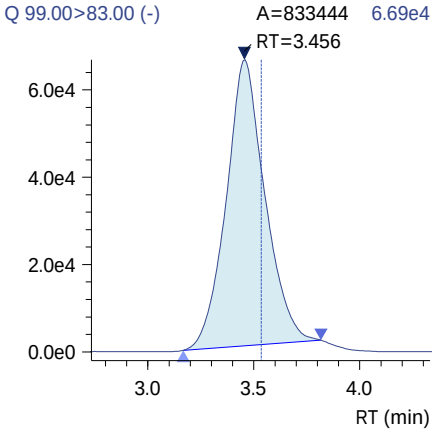
Perchlorate ICAL 8

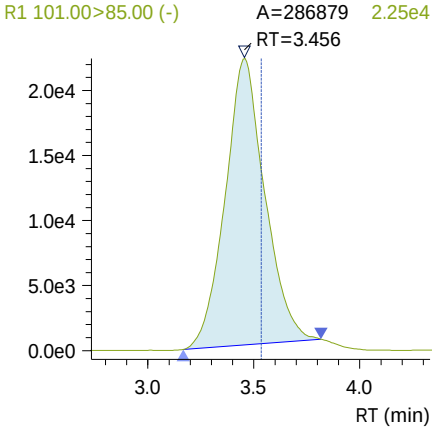
Sample ID: Perchlorate ICAL 8
Date Acquired: 6/11/2024 4:25:27 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-009.lcd
Vial: 8 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.456	833444	272651	20.9 364	ng/mL	101.00 >85.00	34.42	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.455	272651	272651	1.0000	ng/mL	----	----	

Perchlorate

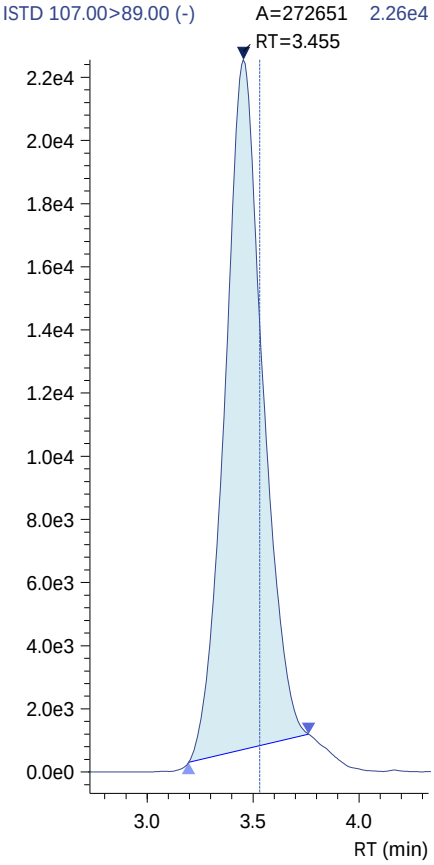
Conc 20.9364
R#1 34.42 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

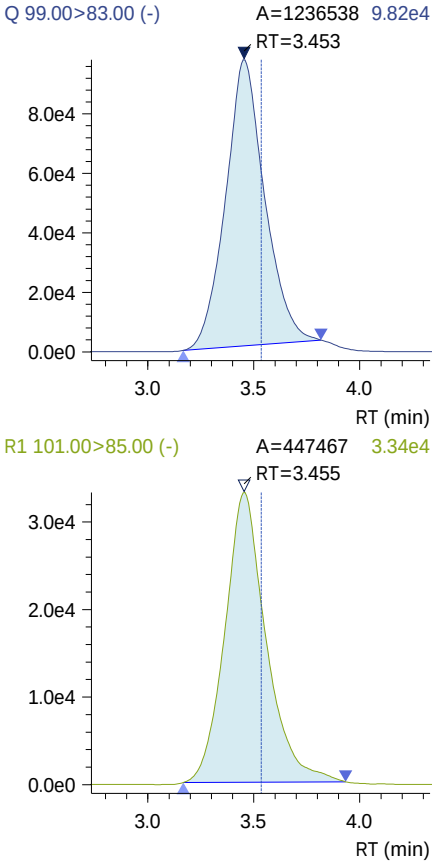
Perchlorate ICAL 9

Sample ID: Perchlorate ICAL 9
Date Acquired: 6/11/2024 4:30:58 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-010.lcd
Vial: 9 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.453	12365 38	276997	30.5 749	ng/mL	101.00 >85.00	36.19	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.452	276997	276997	1.0000	ng/mL	----	----	

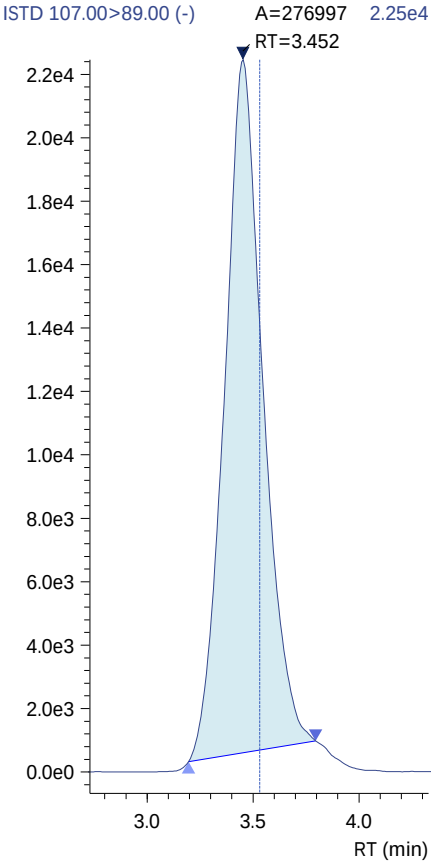
Perchlorate

Conc 30.5749
R#1 36.19 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/12/2024 8:45:04 AM

Perchlorate ICAL 10

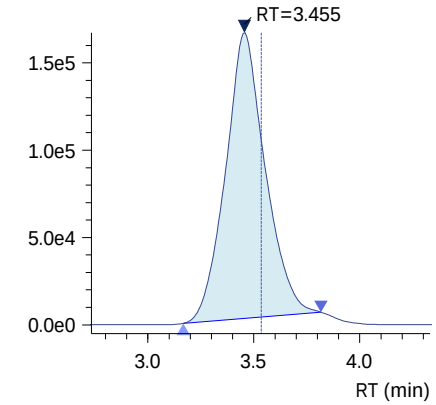
Sample ID: Perchlorate ICAL 10
Date Acquired: 6/11/2024 4:36:29 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-011.lcd
Vial: 10 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.455	21293 80	282834	51.5 649	ng/mL	101.00 >85.00	36.47	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.453	282834	282834	1.0000	ng/mL	----	----	

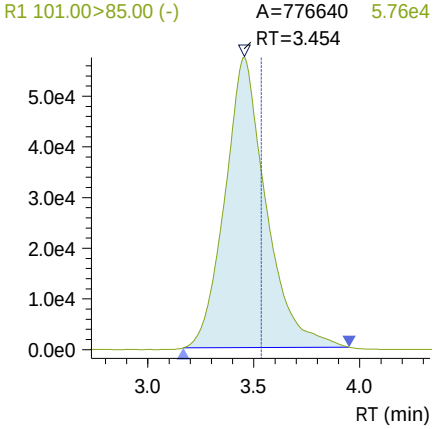
Perchlorate

Conc 51.5649
R#1 36.47 (34.10)

Q 99.00>83.00 (-) A=2129380 1.67e5



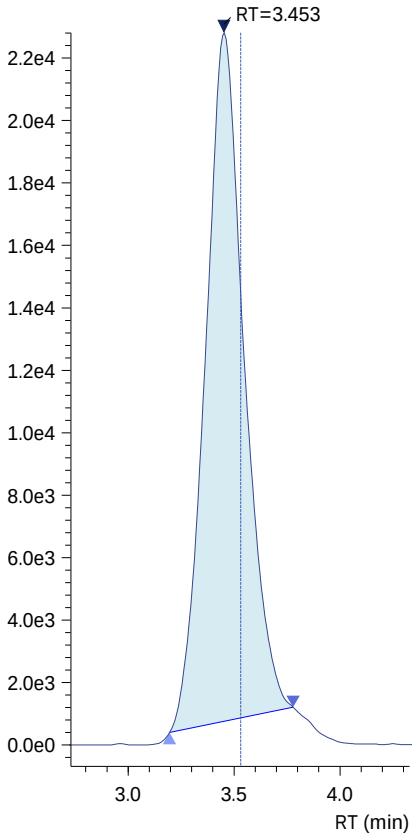
R1 101.00>85.00 (-) A=776640 5.76e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=282834 2.28e4



Insight Report

Printed at 6/12/2024 8:45:04 AM

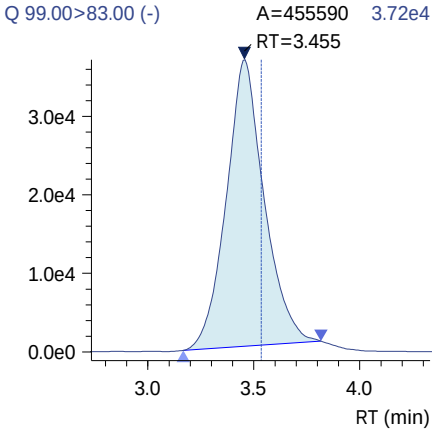
PerchlorateICV

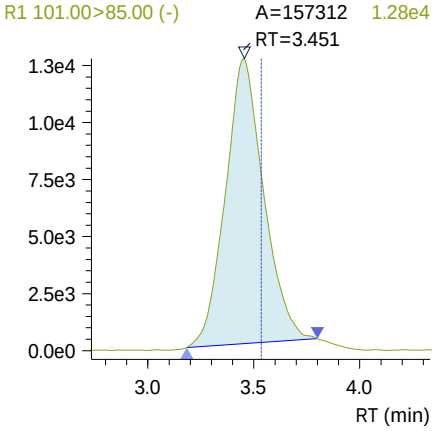
Sample ID: PerchlorateICV
Date Acquired: 6/11/2024 4:42:02 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240611\20240611-012.lcd
Vial: 11 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.455	455590	303470	10.2823	ng/mL	101.00 >85.00	34.53	23.50 -43.64
Sodium Perchlorate -18O4_IS	Auto	3.454	303470	303470	1.0000	ng/mL	----	----	

Perchlorate

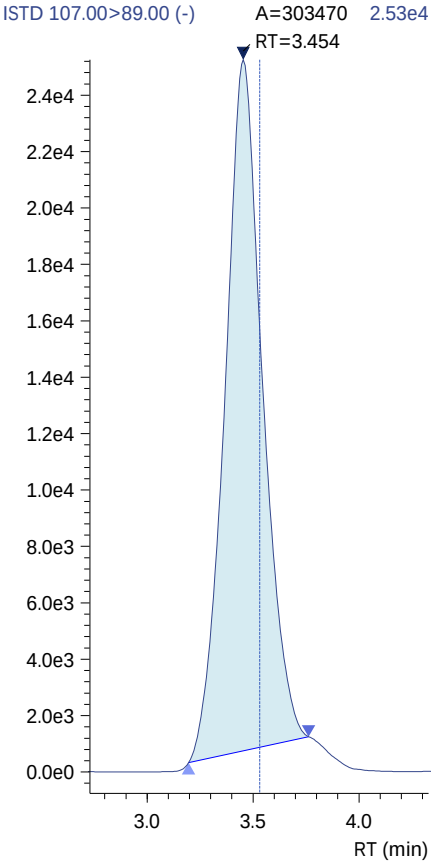
Conc 10.2823
R#1 34.53 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Chromatograms and Selected Ion Monitoring

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 320, Houston TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

843893

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240618-001	IB	Perchlorate6850c.lcm	1x		6/19/2024 11:49
2	20240618-002	IB	Perchlorate6850c.lcm	1x		6/19/2024 11:55
3	20240618-003	IB	Perchlorate6850c.lcm	1x	DNU out of range	6/19/2024 12:00
4	20240618-004	LODV	Perchlorate6850c.lcm	1x		6/19/2024 12:06
5	20240618-005	ICS	Perchlorate6850c.lcm	1x		6/19/2024 12:11
6	20240618-006	CCV	Perchlorate6850c.lcm	1x		6/19/2024 12:13
7	20240618-007	ICS	Perchlorate6850c.lcm	1x		6/19/2024 12:44
8	20240618-008	IB	Perchlorate6850c.lcm	1x		6/19/2024 12:50
9	20240618-009	EQ2400328-01MB	Perchlorate6850c.lcm	1x		6/19/2024 13:09
10	20240618-010	EQ2400328-02LCS	Perchlorate6850c.lcm	1x		6/19/2024 13:15
11	20240618-011	EQ2400328-03DLCS	Perchlorate6850c.lcm	1x		6/19/2024 13:20
12	20240618-012	EQ2400328-05MS	Perchlorate6850c.lcm	1x		6/19/2024 13:26
13	20240618-013	EQ2400328-06DMS	Perchlorate6850c.lcm	1x		6/19/2024 13:31
14	20240618-014	E2400682-001	Perchlorate6850c.lcm	1x	DNU	6/19/2024 13:37
15	20240618-015	E2400682-002	Perchlorate6850c.lcm	1x	DNU	6/19/2024 13:43
16	20240618-016	E2400682-003	Perchlorate6850c.lcm	1x	DNU	6/19/2024 13:48
17	20240618-017	E2400682-004	Perchlorate6850c.lcm	1x	DNU	6/19/2024 13:54
18	20240618-018	E2400682-005	Perchlorate6850c.lcm	1x	DNU	6/19/2024 13:59
19	20240618-019	CCV	Perchlorate6850c.lcm	1x		6/19/2024 14:05
20	20240618-020	IB	Perchlorate6850c.lcm	1x		6/19/2024 14:10
21	20240618-021	E2400682-006	Perchlorate6850c.lcm	1x		6/19/2024 14:16
22	20240618-022	E2400682-007	Perchlorate6850c.lcm	1x		6/19/2024 14:21
23	20240618-023	E2400682-008	Perchlorate6850c.lcm	1x		6/19/2024 14:27
24	20240618-024	E2400682-009	Perchlorate6850c.lcm	1x	DNU	6/19/2024 14:32
25	20240618-025	E2400684-001	Perchlorate6850c.lcm	1x	DNU	6/19/2024 14:38
26	20240618-026	E2400684-002	Perchlorate6850c.lcm	1x		6/19/2024 14:43
27	20240618-027	E2400684-003	Perchlorate6850c.lcm	1x		6/19/2024 14:49
28	20240618-028	E2400684-004	Perchlorate6850c.lcm	1x		6/19/2024 14:55
29	20240618-029	E2400684-005	Perchlorate6850c.lcm	1x		6/19/2024 15:00
30	20240618-030	E2400684-006	Perchlorate6850c.lcm	1x	DNU	6/19/2024 15:06
31	20240618-031	CCV	Perchlorate6850c.lcm	1x		6/19/2024 15:11
32	20240618-032	IB	Perchlorate6850c.lcm	1x		6/19/2024 15:17
33	20240618-033	E2400684-007	Perchlorate6850c.lcm	1x	DNU	6/19/2024 15:22
34	20240618-034	E2400684-008	Perchlorate6850c.lcm	1x	DNU	6/19/2024 15:28
35	20240618-035	E2400684-009	Perchlorate6850c.lcm	1x		6/19/2024 15:33
36	20240618-036	E2400682-001	Perchlorate6850c.lcm	1x		6/19/2024 15:39
37	20240618-037	E2400682-003	Perchlorate6850c.lcm	1x		6/19/2024 15:45
38	20240618-038	E2400682-002X20	Perchlorate6850c.lcm	20x	DNU	6/19/2024 15:50
39	20240618-039	E2400682-004X100	Perchlorate6850c.lcm	100x	DNU	6/19/2024 15:56

843893

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
40	20240618-040	E2400682-005X100	Perchlorate6850c.lcm	100x	DNU	6/19/2024 16:01
41	20240618-041	E2400682-005X100	Perchlorate6850c.lcm	100x	DNU	6/19/2024 16:07
42	20240618-042	E2400682-009X100	Perchlorate6850c.lcm	100x	DNU	6/19/2024 16:12
43	20240618-043	CCV	Perchlorate6850c.lcm	1x		6/19/2024 16:18
44	20240618-044	IB	Perchlorate6850c.lcm	1x		6/19/2024 16:23
45	20240618-045	E2400684-001	Perchlorate6850c.lcm	1x		6/19/2024 16:42
46	20240618-046	E2400684-006	Perchlorate6850c.lcm	1x		6/19/2024 16:48
47	20240618-047	E2400684-009	Perchlorate6850c.lcm	1x	DNU	6/19/2024 16:53
48	20240618-048	CCV	Perchlorate6850c.lcm	1x		6/19/2024 16:59
49	20240618-049	IB	Perchlorate6850c.lcm	1x		6/19/2024 17:04

843893

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240620-001	IB	Perchlorate6850c.lcm	1x		6/20/2024 8:09
2	20240620-002	IB	Perchlorate6850c.lcm	1x		6/20/2024 8:15
3	20240620-003	IB	Perchlorate6850c.lcm	1x		6/20/2024 8:20
4	20240620-004	LODV	Perchlorate6850c.lcm	1x		6/20/2024 8:26
5	20240620-005	ICS	Perchlorate6850c.lcm	1x		6/20/2024 8:31
6	20240620-006	CCV	Perchlorate6850c.lcm	1x		6/20/2024 8:37
7	20240620-007	IB	Perchlorate6850c.lcm	1x		6/20/2024 9:28
8	20240620-008	LOD-TEST	Perchlorate6850c.lcm	1x		6/20/2024 9:34
9	20240620-009	EQ2400332-01MB	Perchlorate6850c.lcm	1x		6/20/2024 9:39
10	20240620-010	EQ2400332-02LCS	Perchlorate6850c.lcm	1x		6/20/2024 9:45
11	20240620-011	EQ2400332-03DLCS	Perchlorate6850c.lcm	1x		6/20/2024 9:50
12	20240620-012	EQ2400328-04ICS	Perchlorate6850c.lcm	1x		6/20/2024 9:56
13	20240620-013	E2400682-002X20	Perchlorate6850c.lcm	20x		6/20/2024 10:01
14	20240620-014	E2400682-004X100	Perchlorate6850c.lcm	100x		6/20/2024 10:07
15	20240620-015	E2400682-005X100	Perchlorate6850c.lcm	100x		6/20/2024 10:12
16	20240620-016	E2400682-009X100	Perchlorate6850c.lcm	100x		6/20/2024 10:18
17	20240620-017	E2400684-007X10	Perchlorate6850c.lcm	10x		6/20/2024 10:23
18	20240620-018	E2400684-008X1000	Perchlorate6850c.lcm	1000x		6/20/2024 10:29
19	20240620-019	CCV	Perchlorate6850c.lcm	1x		6/20/2024 10:34
20	20240620-020	IB	Perchlorate6850c.lcm	1x		6/20/2024 10:40
21	20240620-021	EQ2400328-05MS	Perchlorate6850c.lcm	1x	DNU	6/20/2024 10:46
22	20240620-022	EQ2400328-05DMS	Perchlorate6850c.lcm	1x	DNU	6/20/2024 10:51
23	20240620-023	E2400683-001	Perchlorate6850c.lcm	1x	DNU	6/20/2024 10:57
24	20240620-024	E2400683-002	Perchlorate6850c.lcm	1x		6/20/2024 11:02
25	20240620-025	E2400683-003	Perchlorate6850c.lcm	1x	DNU	6/20/2024 11:08
26	20240620-026	E2400683-004	Perchlorate6850c.lcm	1x	DNU	6/20/2024 11:13
27	20240620-027	E2400683-005	Perchlorate6850c.lcm	1x		6/20/2024 11:19
28	20240620-028	E2400683-006	Perchlorate6850c.lcm	1x		6/20/2024 11:24
29	20240620-029	E2400683-007	Perchlorate6850c.lcm	1x		6/20/2024 11:30
30	20240620-030	E2400683-008	Perchlorate6850c.lcm	1x		6/20/2024 11:35
31	20240620-031	CCV	Perchlorate6850c.lcm	1x		6/20/2024 11:41
32	20240620-032	IB	Perchlorate6850c.lcm	1x		6/20/2024 11:47
33	20240620-033	E2400687-001	Perchlorate6850c.lcm	1x	DNU	6/20/2024 11:52
34	20240620-034	E2400687-002	Perchlorate6850c.lcm	1x	DNU	6/20/2024 11:58
35	20240620-035	E2400687-003	Perchlorate6850c.lcm	1x	DNU	6/20/2024 12:03
36	20240620-036	E2400687-004	Perchlorate6850c.lcm	1x	DNU	6/20/2024 12:09
37	20240620-037	E2400687-005	Perchlorate6850c.lcm	1x	DNU	6/20/2024 12:14
38	20240620-038	E2400687-006	Perchlorate6850c.lcm	1x	DNU	6/20/2024 12:20
39	20240620-039	E2400687-007	Perchlorate6850c.lcm	1x	DNU	6/20/2024 12:25
40	20240620-040	E2400687-008	Perchlorate6850c.lcm	1x	DNU	6/20/2024 12:31
41	20240620-041	E2400687-009	Perchlorate6850c.lcm	1x	DNU	6/20/2024 12:36

843893

Injection Log

LCMS01 -Shimadzu 8050

1st Review: CG
2nd Review:

ICAL Date: 6/11/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400009

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
42	20240620-042	E2400683-001x500	Perchlorate6850c.lcm	500x		6/20/2024 12:42
43	20240620-043	CCV	Perchlorate6850c.lcm	1x		6/20/2024 12:48
44	20240620-044	IB	Perchlorate6850c.lcm	1x		6/20/2024 12:53
45	20240620-045	E2400683-004x10000	Perchlorate6850c.lcm	10000x	DNU	6/20/2024 12:59
46	20240620-046	E2400687-001x10000	Perchlorate6850c.lcm	10000x		6/20/2024 13:04
47	20240620-047	E2400687-002x10000	Perchlorate6850c.lcm	10000x		6/20/2024 13:10
48	20240620-048	E2400687-003x1000	Perchlorate6850c.lcm	1000x		6/20/2024 13:15
49	20240620-049	E2400687-004x1000	Perchlorate6850c.lcm	1000x		6/20/2024 13:21
50	20240620-050	E2400687-005x100000	Perchlorate6850c.lcm	100000x		6/20/2024 13:26
51	20240620-051	E2400687-006x1000	Perchlorate6850c.lcm	1000x	DNU	6/20/2024 13:37
52	20240620-052	E2400683-003	Perchlorate6850c.lcm	1x		6/20/2024 13:43
53	20240620-053	E2400683-004x1000	Perchlorate6850c.lcm	1000x		6/20/2024 13:48
54	20240620-054	CCV	Perchlorate6850c.lcm	1x		6/20/2024 13:54
55	20240620-055	IB	Perchlorate6850c.lcm	1x		6/20/2024 13:59
56	20240620-056	E2400687-007	Perchlorate6850c.lcm	1x	DNU	6/20/2024 14:05
57	20240620-057	E2400687-008	Perchlorate6850c.lcm	1x	DNU	6/20/2024 14:10
58	20240620-058	E2400687-009	Perchlorate6850c.lcm	1x	DNU	6/20/2024 14:16
59	20240620-059	EQ2400328-05MS	Perchlorate6850c.lcm	1x	DNU	6/20/2024 14:21
60	20240620-060	EQ2400328-05DMS	Perchlorate6850c.lcm	1x	DNU	6/20/2024 14:27
61	20240620-061	E2400687-006x10000	Perchlorate6850c.lcm	10000x		6/20/2024 14:33
62	20240620-062	CCV	Perchlorate6850c.lcm	1x		6/20/2024 14:38
63	20240620-063	IB	Perchlorate6850c.lcm	1x		6/20/2024 14:44

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060434

Service Request: E2400684
Date Analyzed: 6/19/24 12:13

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240618\20240618-006
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400334-01
Analysis Lot: 844810
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400334-01	166,199	3.45
Method Blank	EQ2400328-01	171,325	3.46
Lab Control Sample	EQ2400328-02	164,480	3.46
Duplicate Lab Control Sample	EQ2400328-03	145,931	3.46
18WW14_060624MS	EQ2400328-05	201,125	3.46
18WW14_060624DMS	EQ2400328-06	200,929	3.46

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060434

Service Request: E2400684
Date Analyzed: 6/19/24 14:05

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240618\20240618-019
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400334-02
Analysis Lot: 844810
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400334-02	189,334	3.46
18CPTMW01DW_060624	E2400684-002	158,544	3.47
18CPTMW01SW_060624	E2400684-003	236,256	3.46
102_060624	E2400684-004	193,159	3.46
102_060624_a	E2400684-005	191,725	3.45

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060434

Service Request: E2400684
Date Analyzed: 6/19/24 15:11

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240618\20240618-031
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400334-03
Analysis Lot: 844810
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400334-03	242,050	3.45
18WW14_060624	E2400684-009	265,466	3.46

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060434

Service Request: E2400684
Date Analyzed: 6/19/24 16:18

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240618\20240618-043
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400334-04
Analysis Lot: 844810
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400334-04	250,872	3.45
MW2_060624	E2400684-001	145,627	3.47
18CPTMW04_060624	E2400684-006	187,011	3.45

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060434

Service Request: E2400684
Date Analyzed: 6/19/24 16:59

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240618\20240618-048
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400334-05
Analysis Lot: 844810
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400334-05	251,087	3.45

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060434

Service Request: E2400684
Date Analyzed: 6/20/24 08:37

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240620\20240620-006
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400337-07
Analysis Lot: 844983
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400337-07	207,633	3.45
18CPTMW24_060624	E2400684-007	353,715	3.45
MW8_060624	E2400684-008	241,139	3.45

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060434

Service Request: E2400684
Date Analyzed: 6/20/24 10:34

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240620\20240620-019
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400337-08
Analysis Lot: 844983
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400337-08	245,753	3.45

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060434

Service Request: E2400684
Date Analyzed: 6/20/24 11:41

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240620\20240620-031
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400337-03
Analysis Lot: 844983
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400337-03	260,308	3.45

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060434

Service Request: E2400684
Date Analyzed: 6/20/24 12:48

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240620\20240620-043
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400337-04
Analysis Lot: 844983
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400337-04	254,706	3.44

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060434

Service Request: E2400684
Date Analyzed: 6/20/24 13:54

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240620\20240620-054
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400337-05
Analysis Lot: 844983
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400337-05	261,796	3.45

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060434

Service Request: E2400684
Date Analyzed: 6/20/24 14:38

Internal Standard Area and RT Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

File ID: I:\LCMS01\DATA\20240620\20240620-062
Instrument ID: E-LCMS-01
Analytical Method: 6850

Lab Code: EQ2400337-06
Analysis Lot: 844983
Signal ID: 1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	291,083	3.45
	Upper Limit ==>	436,625	5.45
	Lower Limit ==>	145,542	1.45
Associated Analyses			
Continuing Calibration Verification	EQ2400337-06	247,639	3.44

Results flagged with an asterisk (*) indicate values outside control criteria.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060434

Service Request: E2400684
Date Analyzed: 6/19/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240618\20240618-006

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 844810
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	8.86	0.1460	0.1293	-11.4	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060434

Service Request: E2400684
Date Analyzed: 6/19/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240618\20240618-019

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 844810
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.36	0.1460	0.1367	-6.4	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060434

Service Request: E2400684
Date Analyzed: 6/19/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240618\20240618-031

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 844810
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.59	0.1460	0.1400	-4.1	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060434

Service Request: E2400684
Date Analyzed: 6/19/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240618\20240618-043

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 844810
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.57	0.1460	0.1397	-4.3	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060434

Service Request: E2400684
Date Analyzed: 6/19/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240618\20240618-048

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 844810
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.74	0.1460	0.1423	-2.6	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060434

Service Request: E2400684
Date Analyzed: 6/20/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240620\20240620-031

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 844983
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.2	0.1460	0.1488	1.9	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060434

Service Request: E2400684
Date Analyzed: 6/20/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240620\20240620-043

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 844983
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.77	0.1460	0.1427	-2.3	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060434

Service Request: E2400684
Date Analyzed: 6/20/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240620\20240620-054

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 844983
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.2	0.1460	0.1485	1.7	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060434

Service Request: E2400684
Date Analyzed: 6/20/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240620\20240620-062

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 844983
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.1	0.1460	0.1478	1.2	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060434

Service Request: E2400684
Date Analyzed: 6/20/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240620\20240620-006

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 844983
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.50	0.1460	0.1387	-5.0	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24060434

Service Request: E2400684
Date Analyzed: 6/20/24

Continuing Calibration Verification Summary
Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
File ID: I:\LCMS01\DATA\20240620\20240620-019

Calibration Date: 6/11/24
Calibration ID: EC2400009
Analysis Lot: 844983
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.0	0.1460	0.1465	0.3	NA	± 15 %	Average RF

Insight Report

Printed at 6/24/2024 2:42:19 PM

Method File: I:\LCMS01\DATA\20240618\20240618.lcm
Project File: I:\LCMS01\DATA\20240618\20240618.damlp

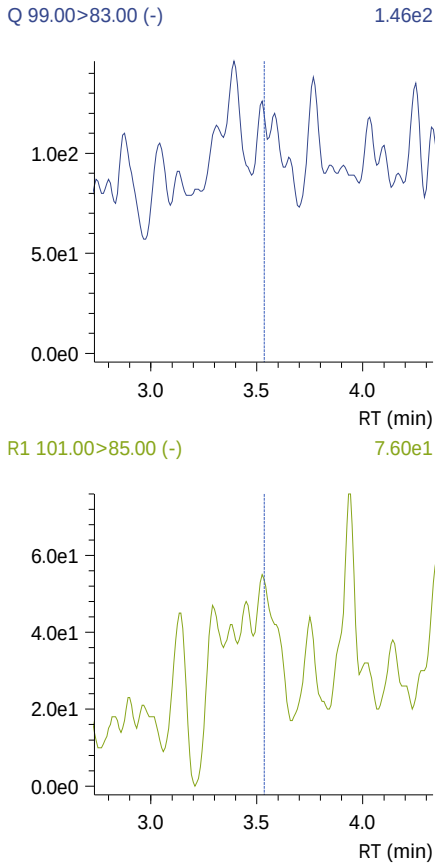
IB

Sample ID: IB
Date Acquired: 6/19/2024 12:00:59 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240618\20240618-003.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	165238	----	ng/mL	101.00 >85.00	0.00	23.56 -43.30
Sodium Perchlorate-18O4_IS	M	3.462	165238	165238	1.0000	ng/mL	----	----	

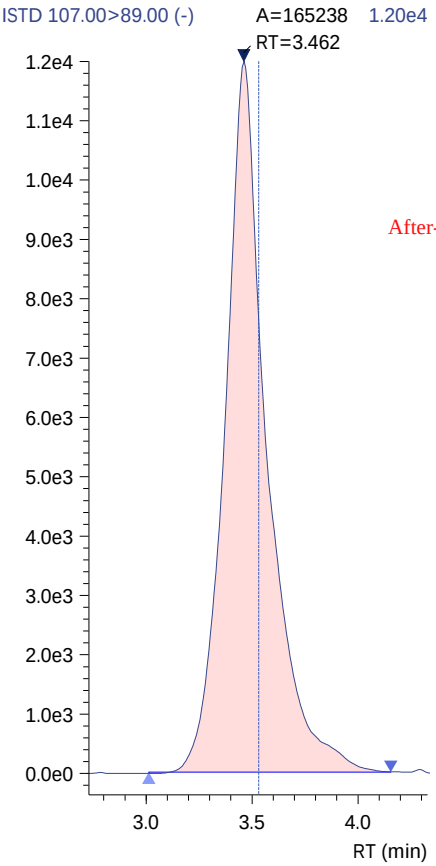
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



After-BLC

Insight Report

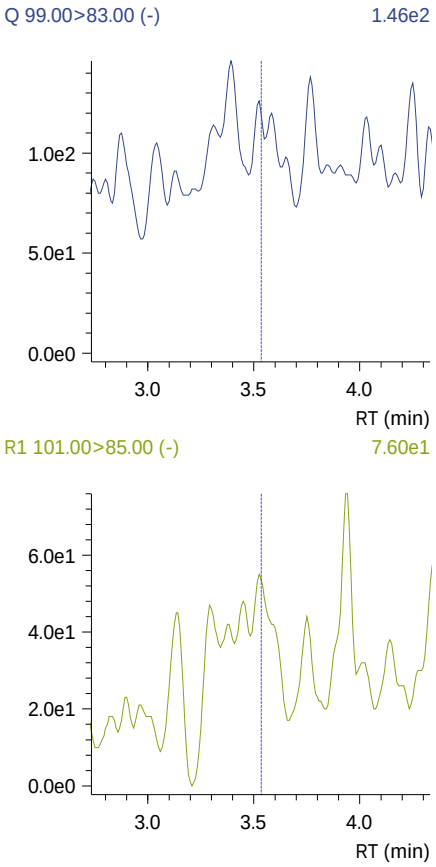
Method File: I:\LCMS01\DATA\20240618\20240618.lcm
Project File: I:\LCMS01\DATA\20240618\20240618.damlp

IB

Sample ID: IB
Date Acquired: 6/19/2024 12:00:59 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240618\20240618-003.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

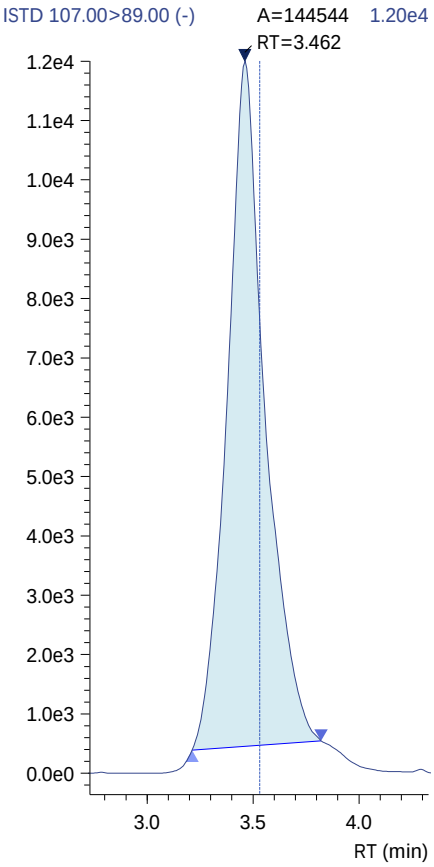
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/24/2024 2:42:19 PM

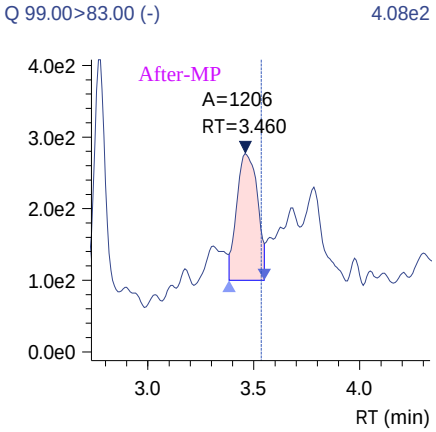
LODV

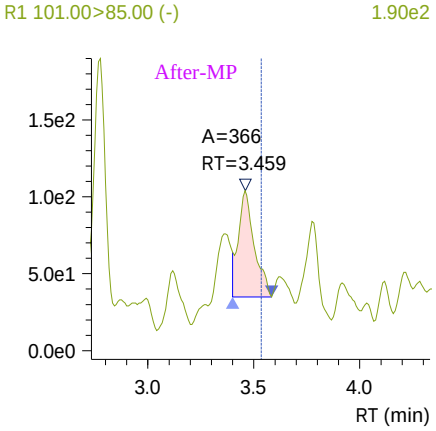
Sample ID: LODV
Date Acquired: 6/19/2024 12:06:33 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240618\20240618-004.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.460	1206	158647	0.0521	ng/mL	101.00 >85.00	30.33	23.56 -43.30
Sodium Perchlorate -18O4_IS	Auto	3.460	158647	158647	1.0000	ng/mL	----	----	

Perchlorate

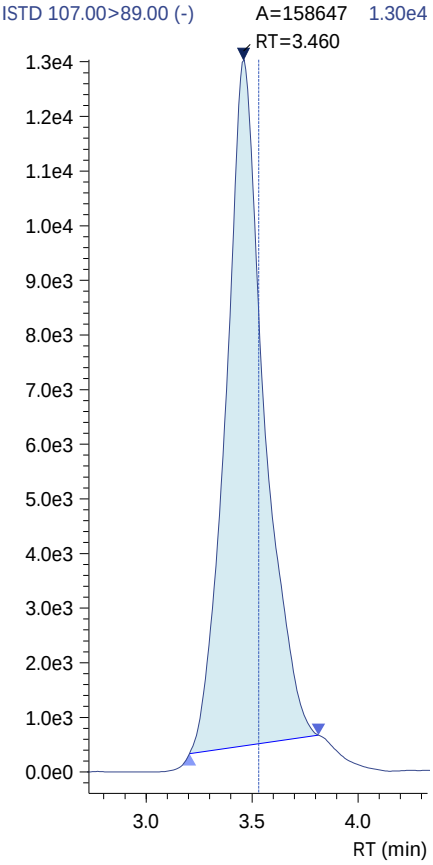
Conc 0.0521
R#1 30.33 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/24/2024 2:44:28 PM

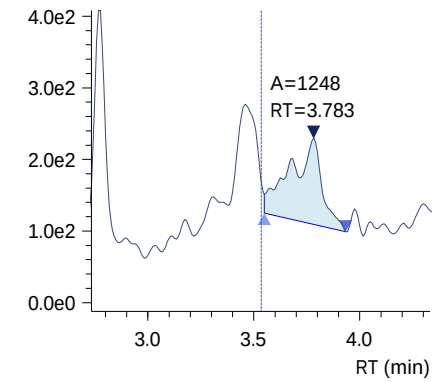
LODV

Sample ID: LODV
Date Acquired: 6/19/2024 12:06:33 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240618\20240618-004.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

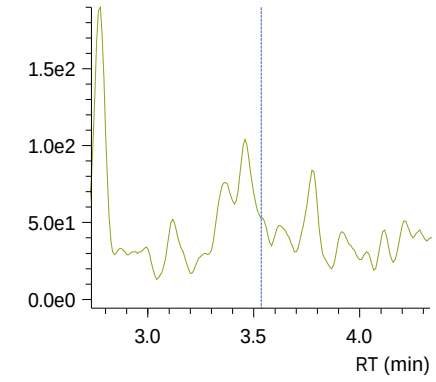
Perchlorate

Conc 0.0539
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 4.08e2



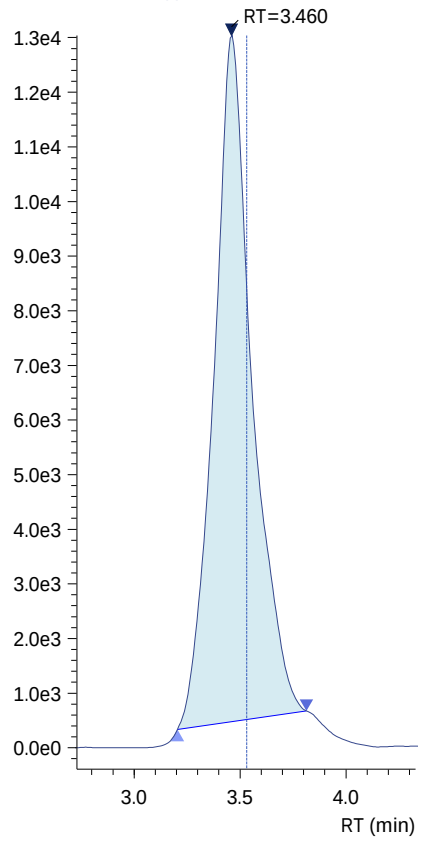
R1 101.00>85.00 (-) 1.90e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=158647 1.30e4



Insight Report

Printed at 6/24/2024 2:42:19 PM

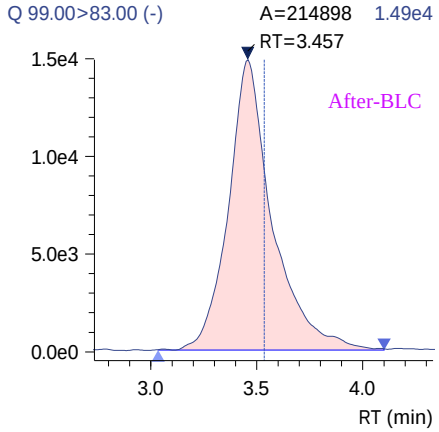
CCV

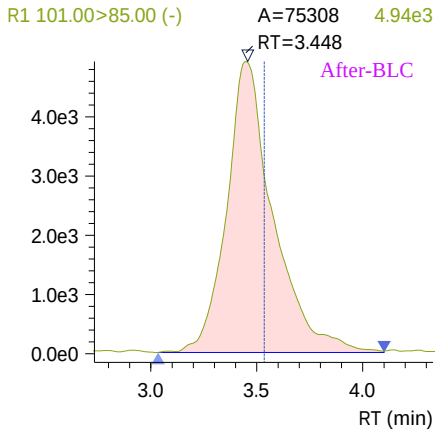
Sample ID: CCV
Date Acquired: 6/19/2024 12:13:06 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240618\20240618-006.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.457	214898	166199	8.8560	ng/mL	101.00 >85.00	35.04	23.56 -43.30
Sodium Perchlorate -18O4_IS	M	3.451	166199	166199	1.0000	ng/mL	----	----	

Perchlorate

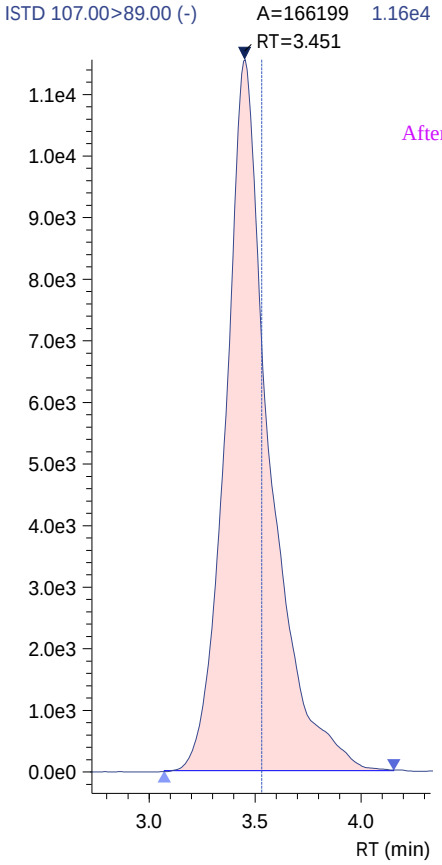
Conc 8.8560
R#1 35.04 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

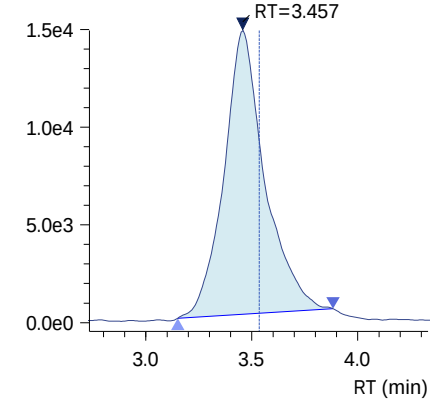
CCV

Sample ID: CCV
Date Acquired: 6/19/2024 12:13:06 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240618\20240618-006.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

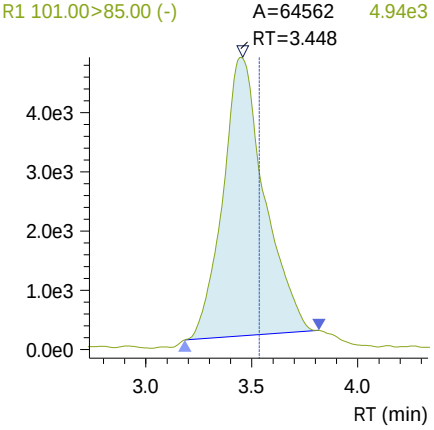
Perchlorate

Conc 9.3816
R#1 33.10 (34.10)

Q 99.00>83.00 (-) A=195043 1.49e4



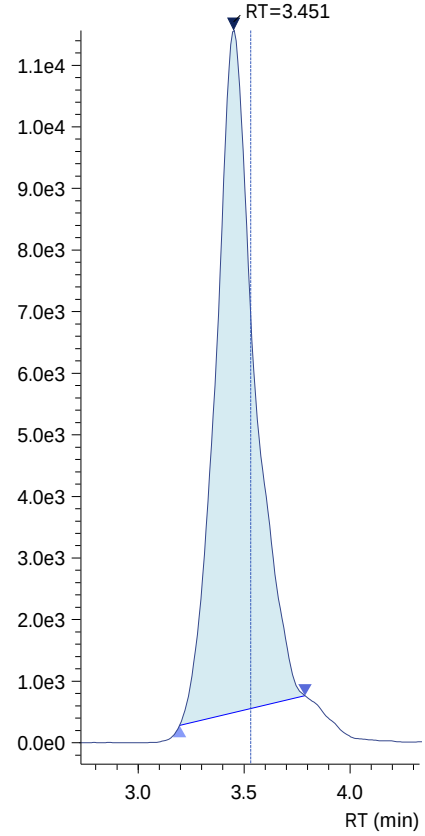
R1 101.00>85.00 (-) A=64562 4.94e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=142391 1.16e4



Insight Report

Printed at 6/24/2024 2:42:19 PM

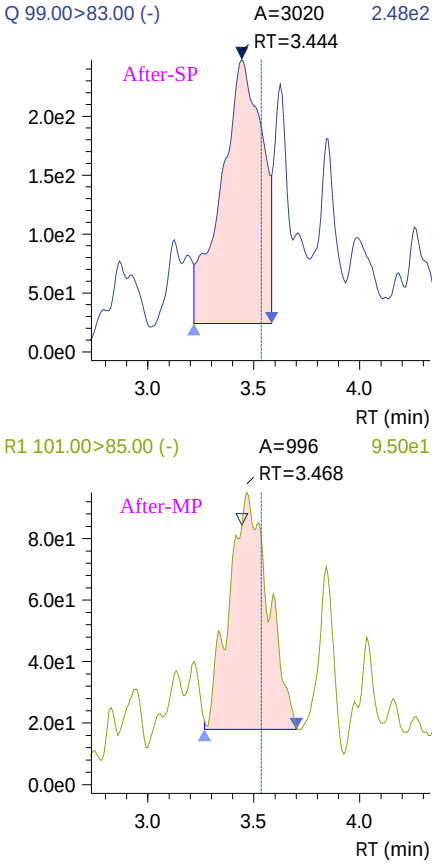
ICS

Sample ID: ICS
Date Acquired: 6/19/2024 12:44:29 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240618\20240618-007.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.444	3020	175391	0.1179	ng/mL	101.00 >85.00	32.98	23.56 -43.30
Sodium Perchlorate -18O4_IS	M	3.457	175391	175391	1.0000	ng/mL	----	----	

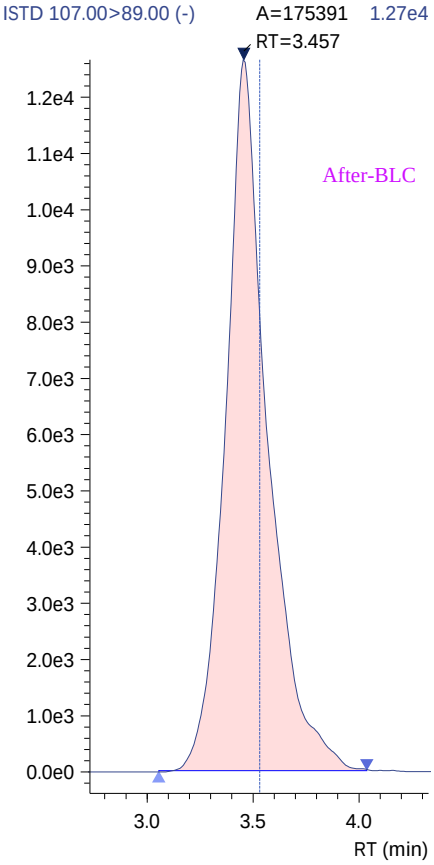
Perchlorate

Conc 0.1179
R#1 32.98 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

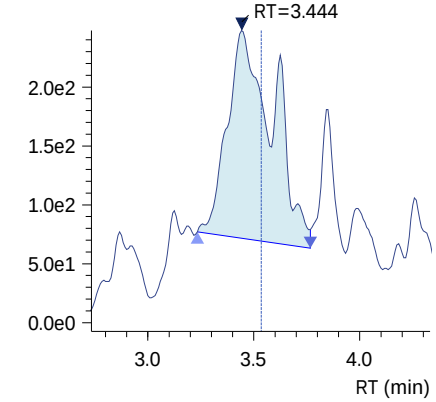
ICS

Sample ID: ICS
Date Acquired: 6/19/2024 12:44:29 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240618\20240618-007.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 2

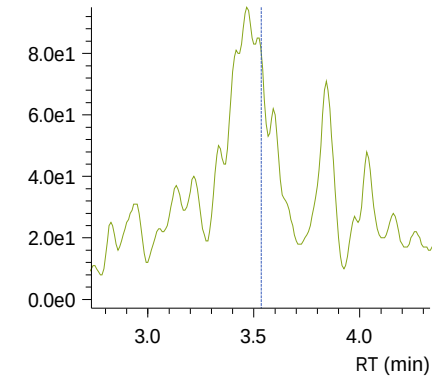
Perchlorate

Conc 0.1199
R#1 0.00 (34.10)

Q 99.00>83.00 (-) A=2699 2.48e2



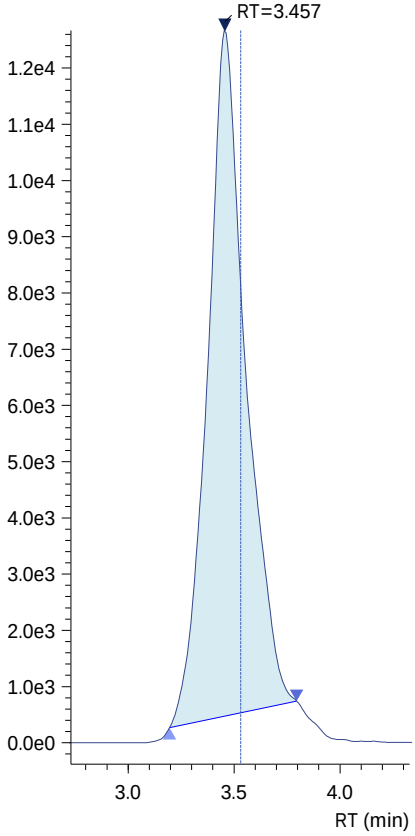
R1 101.00>85.00 (-) 9.50e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=154122 1.27e4



Insight Report

Printed at 6/24/2024 2:42:19 PM

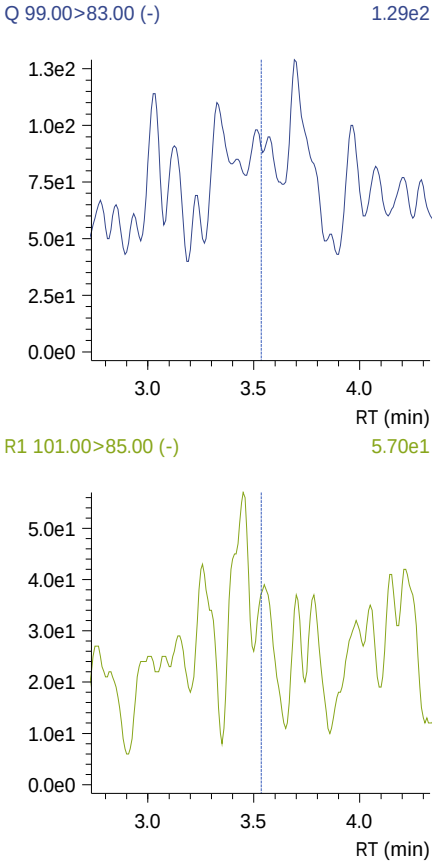
IB

Sample ID: IB
Date Acquired: 6/19/2024 12:50:00 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240618\20240618-008.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	181039	----	ng/mL	101.00 >85.00	0.00	23.56 -43.30
Sodium Perchlorate-18O4_IS	M	3.459	181039	181039	1.0000	ng/mL	----	----	

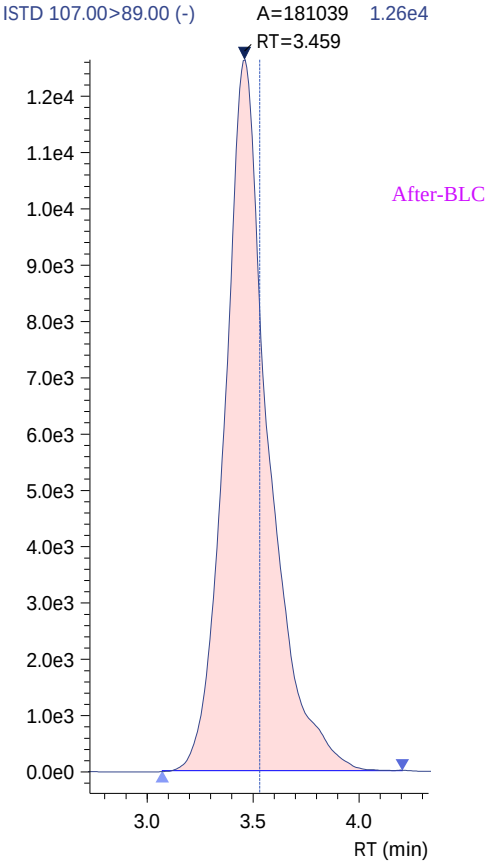
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



After-BLC

Insight Report

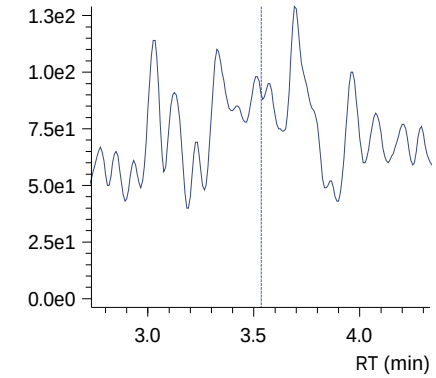
IB

Sample ID: IB
Date Acquired: 6/19/2024 12:50:00 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240618\20240618-008.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

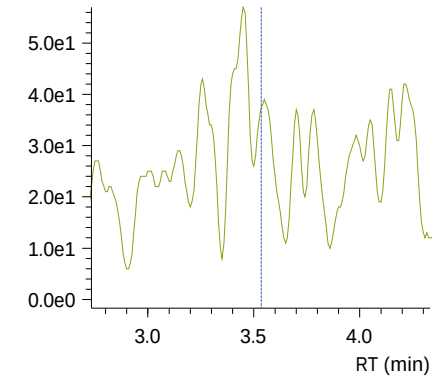
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 1.29e2



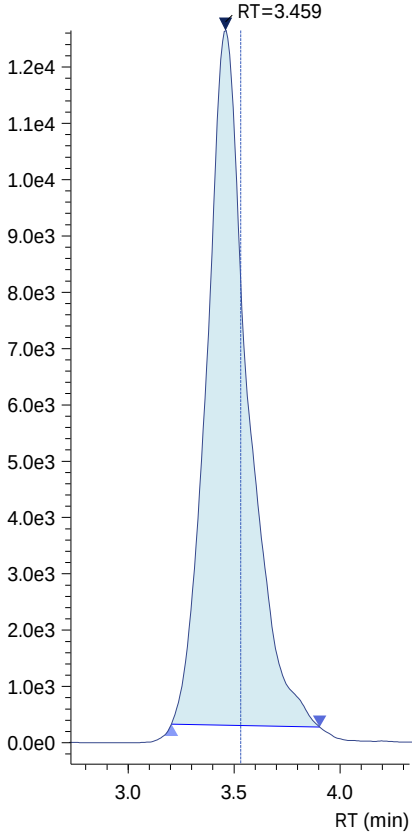
R1 101.00>85.00 (-) 5.70e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=167781 1.26e4
RT=3.459



Insight Report

Printed at 6/24/2024 2:42:19 PM

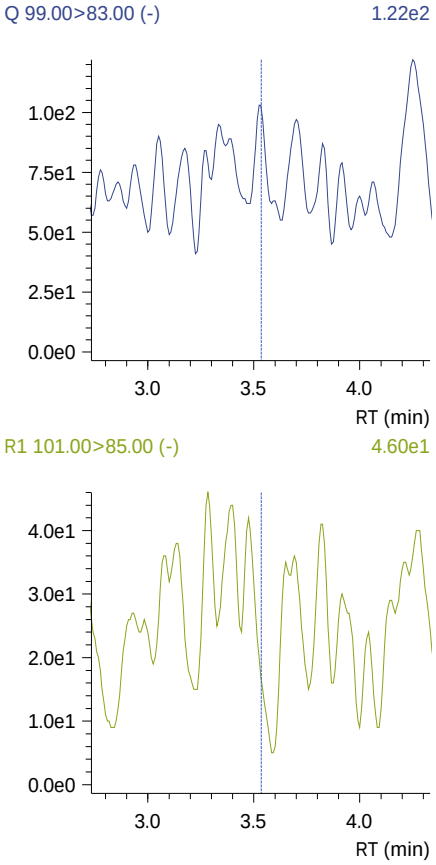
EQ2400328-01MB

Sample ID: EQ2400328-01MB
Date Acquired: 6/19/2024 1:09:44 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240618\20240618-009.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	171325	----	ng/mL	101.00 >85.00	0.00	23.56 -43.30
Sodium Perchlorate-18O4_IS	M	3.460	171325	171325	1.0000	ng/mL	----	----	

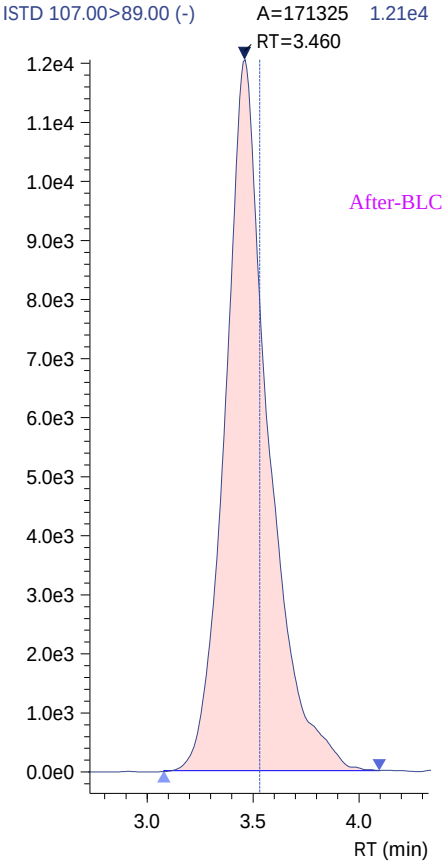
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/24/2024 2:44:28 PM

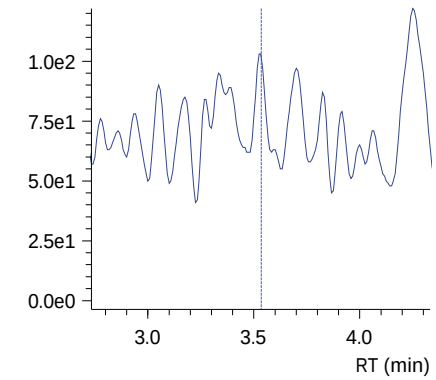
EQ2400328-01MB

Sample ID: EQ2400328-01MB
Date Acquired: 6/19/2024 1:09:44 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240618\20240618-009.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 2

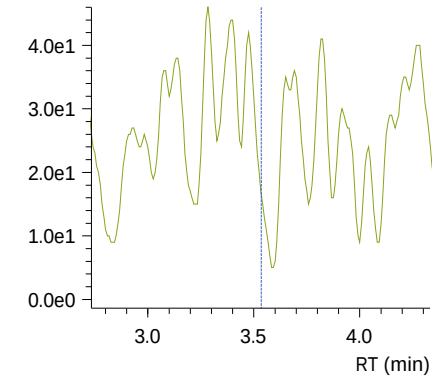
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 1.22e2



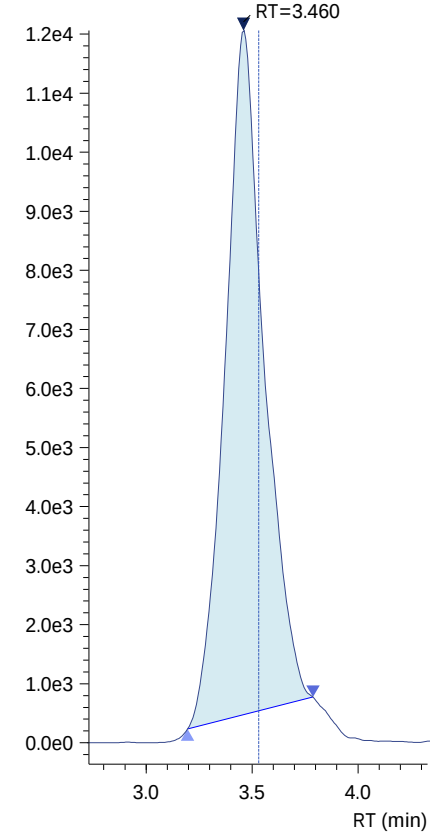
R1 101.00>85.00 (-) 4.60e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=149633 1.21e4



Insight Report

Printed at 6/24/2024 2:42:19 PM

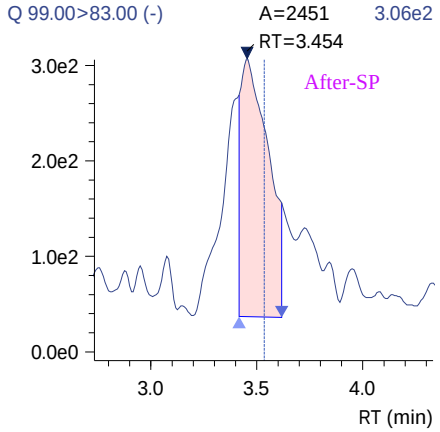
EQ2400328-02LCS

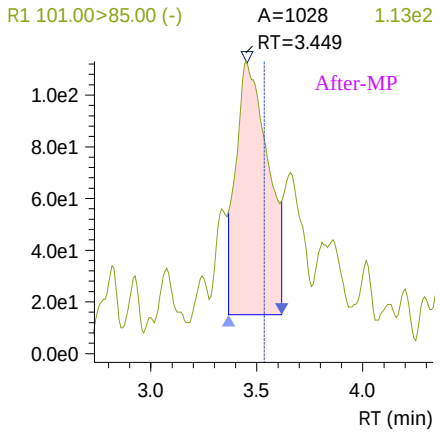
Sample ID: EQ2400328-02LCS
Date Acquired: 6/19/2024 1:15:17 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240618\20240618-010.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.454	2451	164480	0.1021	ng/mL	101.00 >85.00	41.93	23.56 -43.30
Sodium Perchlorate -18O4_IS	M	3.458	164480	164480	1.0000	ng/mL	----	----	

Perchlorate

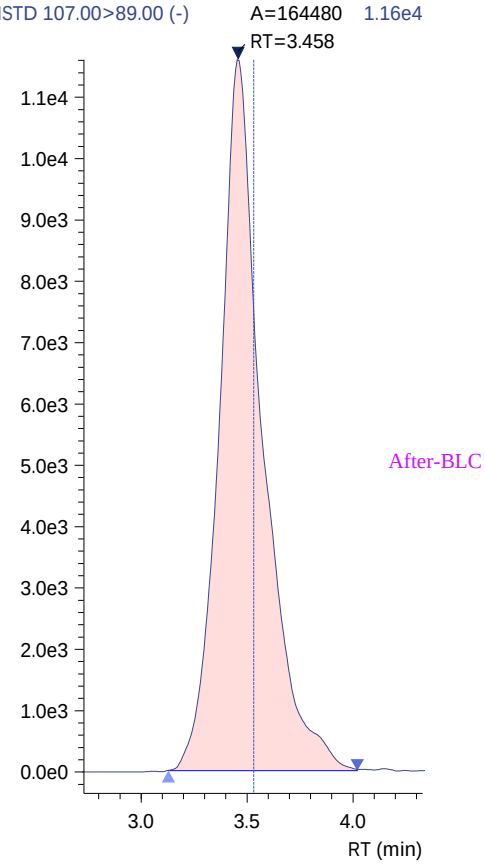
Conc 0.1021
R#1 41.93 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/24/2024 2:44:28 PM

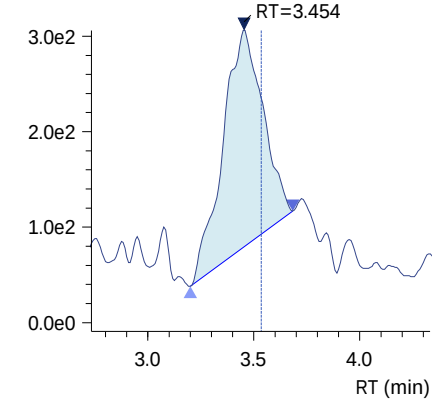
EQ2400328-02LCS

Sample ID: EQ2400328-02LCS
Date Acquired: 6/19/2024 1:15:17 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240618\20240618-010.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 2

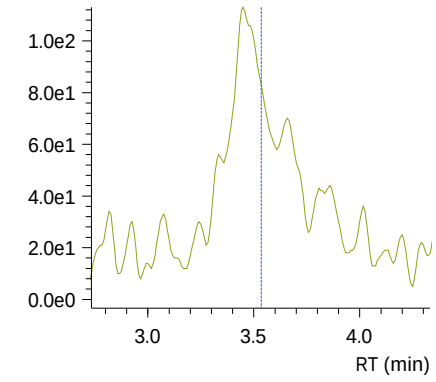
Perchlorate

Conc 0.1429
R#1 0.00 (34.10)

Q 99.00>83.00 (-) A=3005 3.06e2
RT=3.454



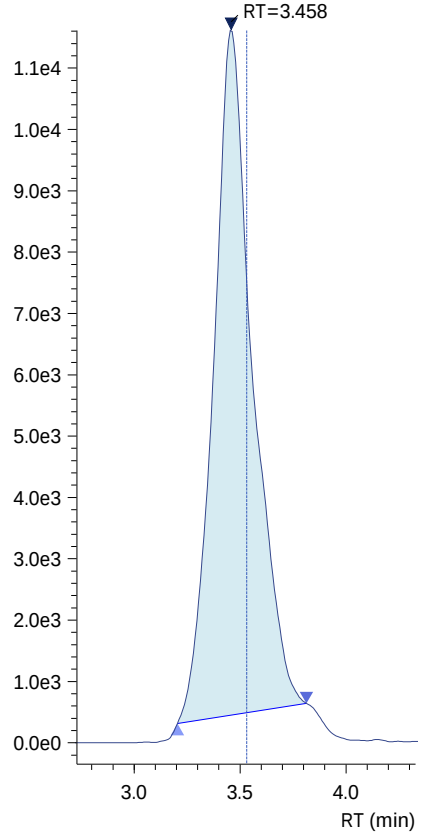
R1 101.00>85.00 (-) 1.13e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=144055 1.16e4
RT=3.458



Insight Report

Printed at 6/24/2024 2:42:19 PM

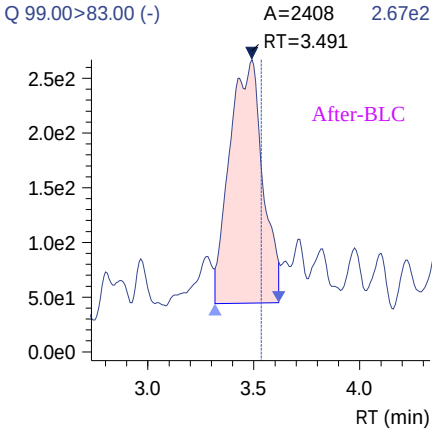
EQ2400328-03DLCS

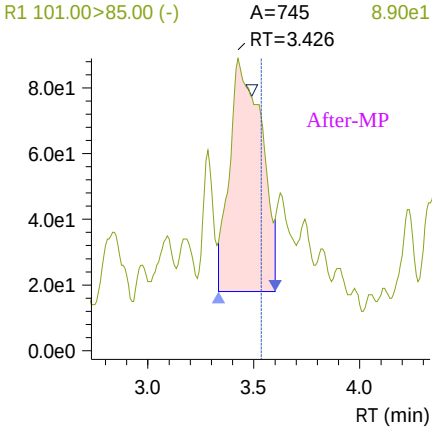
Sample ID: EQ2400328-03DLCS
Date Acquired: 6/19/2024 1:20:52 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240618\20240618-011.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.491	2408	145931	0.1130	ng/mL	101.00 >85.00	30.96	23.56 -43.30
Sodium Perchlorate -18O4_IS	M	3.457	145931	145931	1.0000	ng/mL	----	----	

Perchlorate

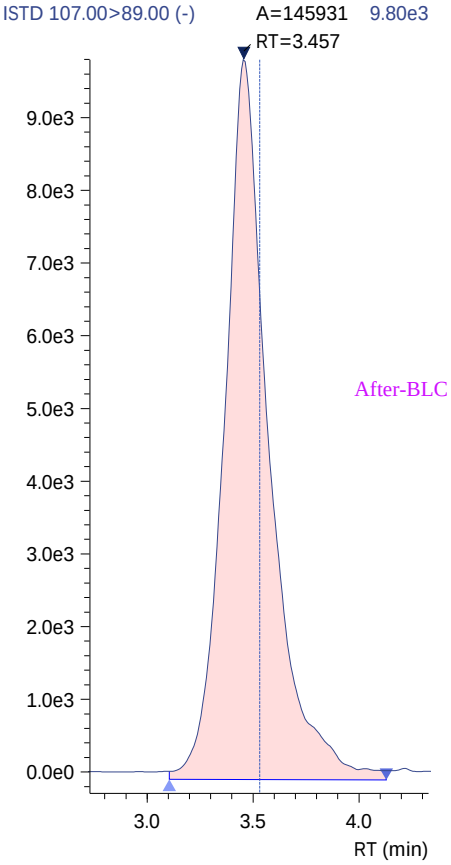
Conc 0.1130
R#1 30.96 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/24/2024 2:44:28 PM

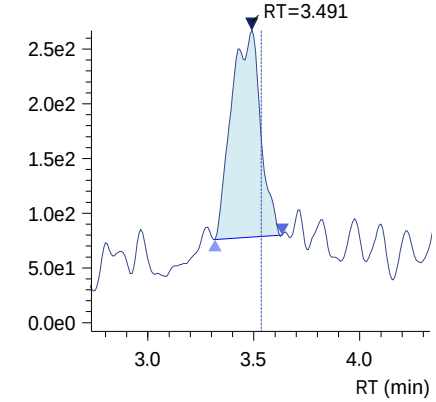
EQ2400328-03DLCS

Sample ID: EQ2400328-03DLCS
Date Acquired: 6/19/2024 1:20:52 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240618\20240618-011.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 2

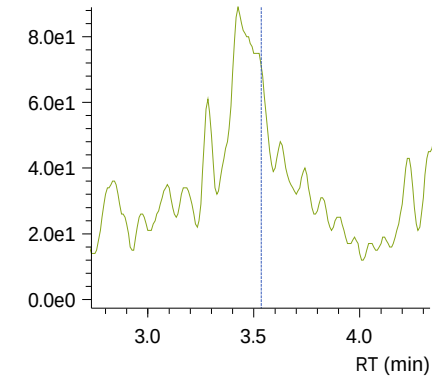
Perchlorate

Conc 0.1031
R#1 0.00 (34.10)

Q 99.00>83.00 (-) A=1807 2.67e2
RT=3.491



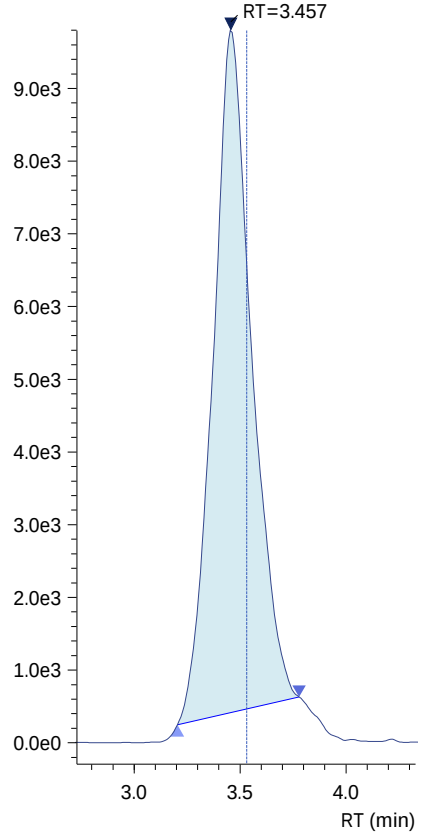
R1 101.00>85.00 (-) 8.90e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=120028 9.80e3
RT=3.457



Insight Report

Printed at 6/24/2024 2:42:19 PM

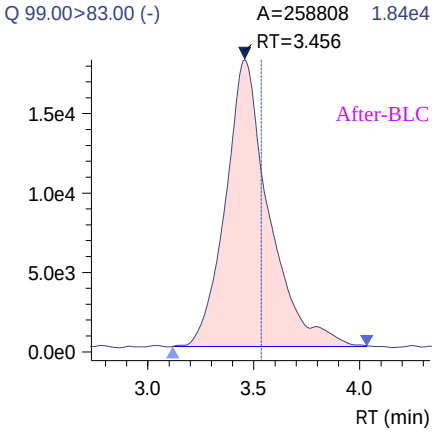
CCV

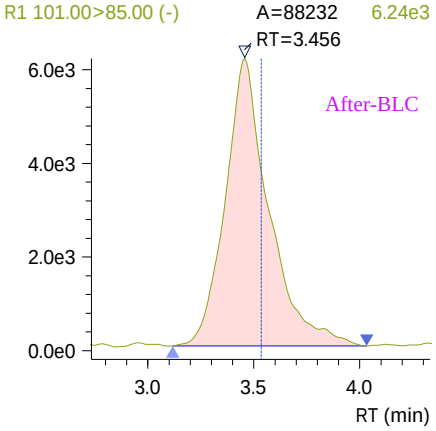
Sample ID: CCV
Date Acquired: 6/19/2024 2:05:11 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240618\20240618-019.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.456	258808	189334	9.3623	ng/mL	101.00 >85.00	34.09	23.56 -43.30
Sodium Perchlorate -18O4_IS	M	3.456	189334	189334	1.0000	ng/mL	----	----	

Perchlorate

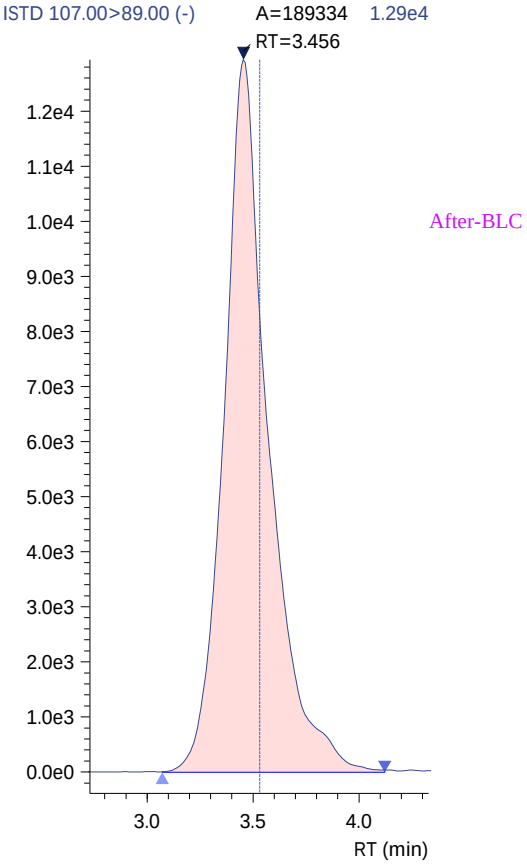
Conc 9.3623
R#1 34.09 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

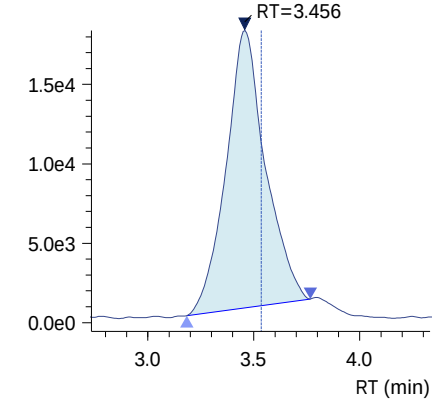
CCV

Sample ID: CCV
Date Acquired: 6/19/2024 2:05:11 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240618\20240618-019.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

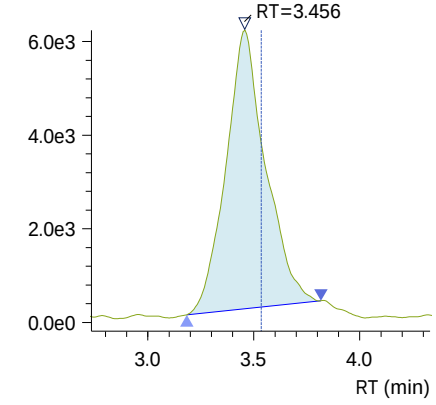
Perchlorate

Conc 9.4853
R#1 34.23 (34.10)

Q 99.00>83.00 (-) A=227066 1.84e4



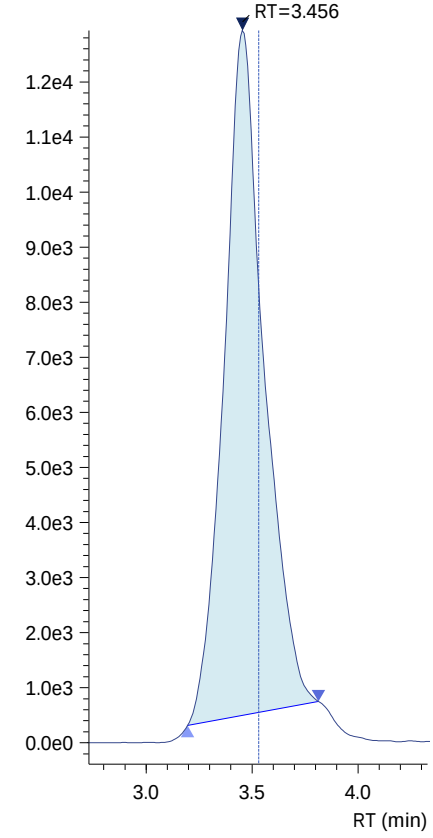
R1 101.00>85.00 (-) A=77719 6.24e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=163959 1.29e4



Insight Report

Printed at 6/24/2024 2:42:19 PM

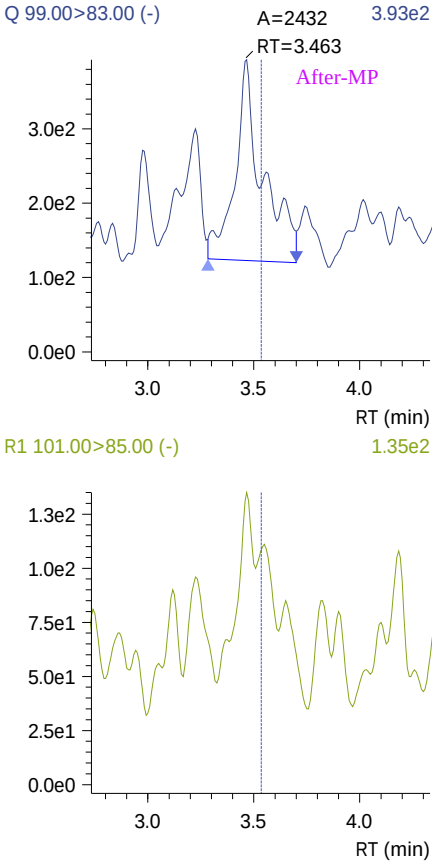
IB

Sample ID: IB
Date Acquired: 6/19/2024 2:10:43 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240618\20240618-020.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	200751	----	ng/mL	101.00 >85.00	0.00	23.56 -43.30
Sodium Perchlorate -18O4_IS	M	3.451	200751	200751	1.0000	ng/mL	----	----	

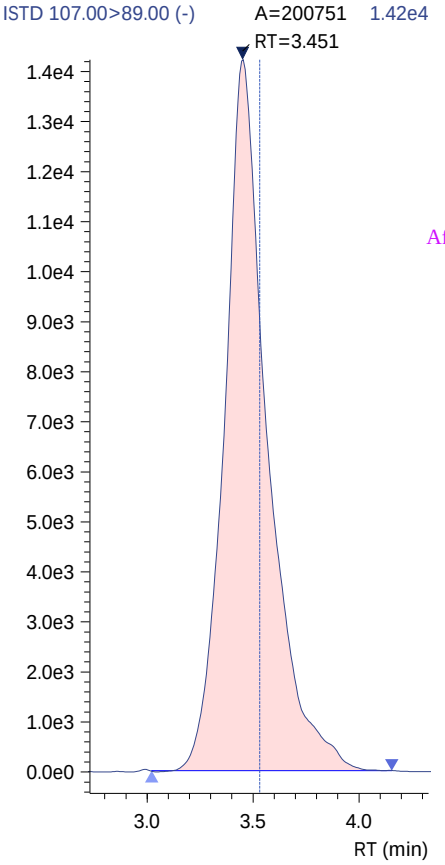
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



After-BLC

Insight Report

Printed at 6/24/2024 2:44:28 PM

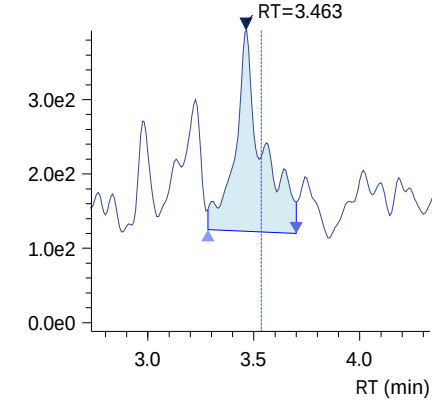
IB

Sample ID: IB
Date Acquired: 6/19/2024 2:10:43 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240618\20240618-020.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

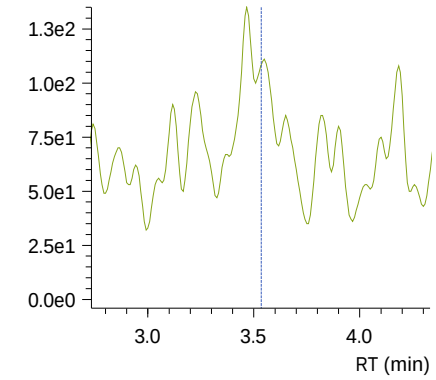
Perchlorate

Conc 0.0912
R#1 0.00 (34.10)

Q 99.00>83.00 (-) A=2432 3.93e2



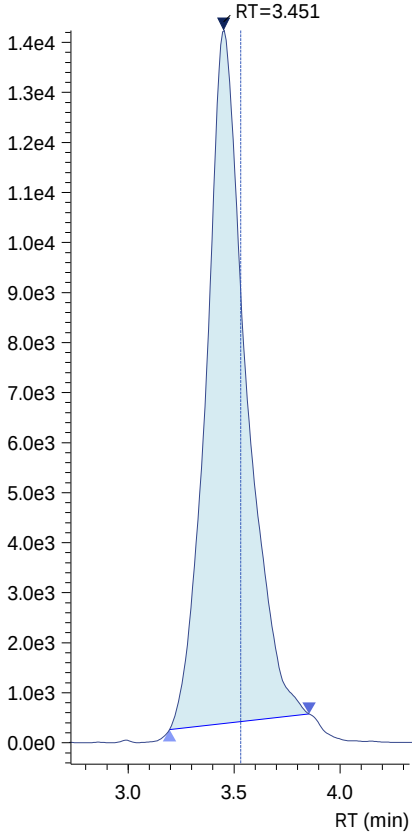
R1 101.00>85.00 (-) 1.35e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=182615 1.42e4



Insight Report

Printed at 6/24/2024 2:42:19 PM

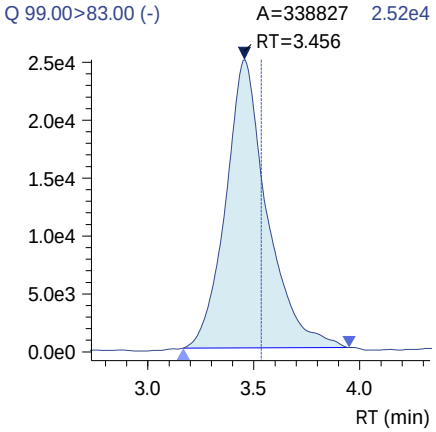
CCV

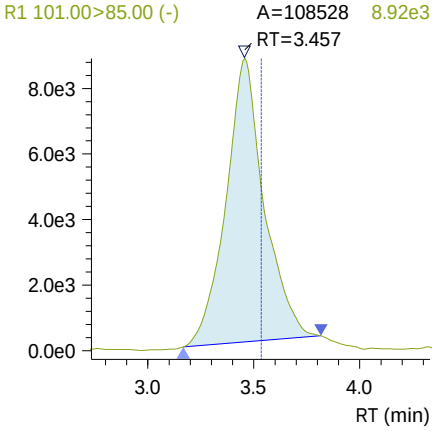
Sample ID: CCV
Date Acquired: 6/19/2024 3:11:43 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240618\20240618-031.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.456	338827	242050	9.5875	ng/mL	101.00 >85.00	32.03	23.56 -43.30
Sodium Perchlorate -18O4_IS	M	3.451	242050	242050	1.0000	ng/mL	----	----	

Perchlorate

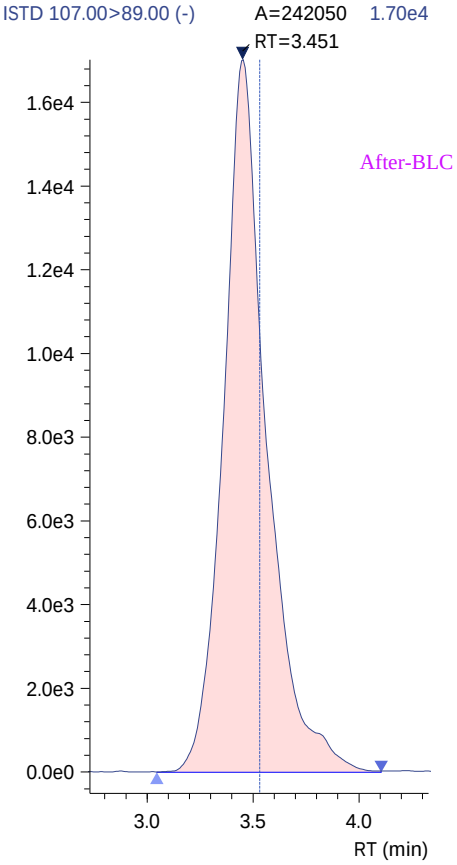
Conc 9.5875
R#1 32.03 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

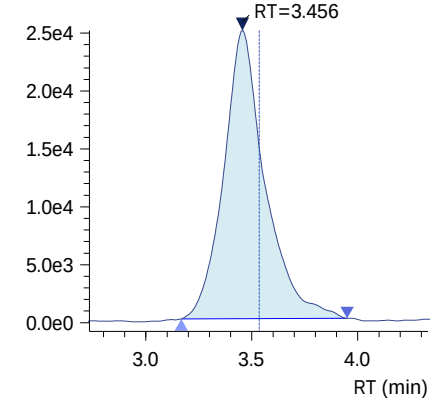
CCV

Sample ID: CCV
Date Acquired: 6/19/2024 3:11:43 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240618\20240618-031.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

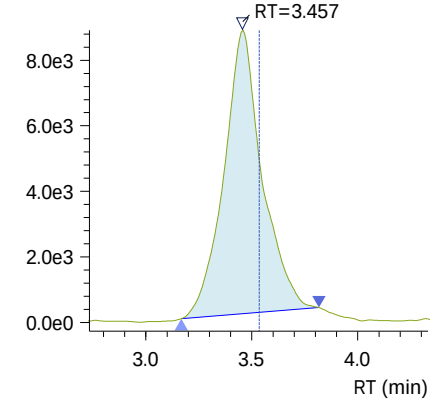
Perchlorate

Conc 11.0660
R#1 32.03 (34.10)

Q 99.00>83.00 (-) A=338827 2.52e4 RT=3.456



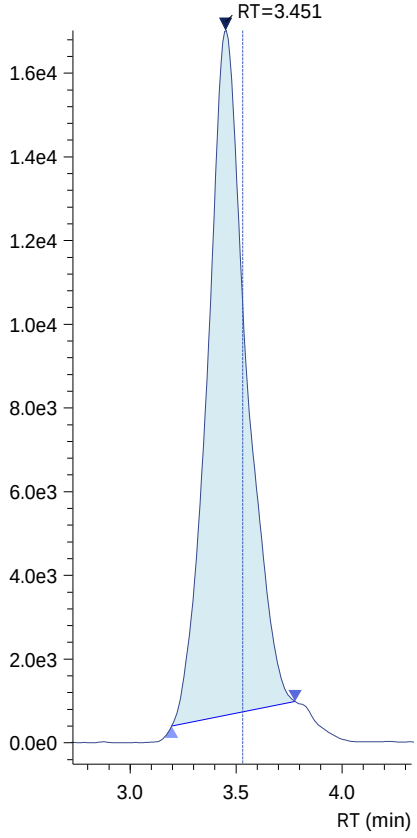
R1 101.00>85.00 (-) A=108528 8.92e3 RT=3.457



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=209710 1.70e4 RT=3.451



Insight Report

Printed at 6/24/2024 2:42:19 PM

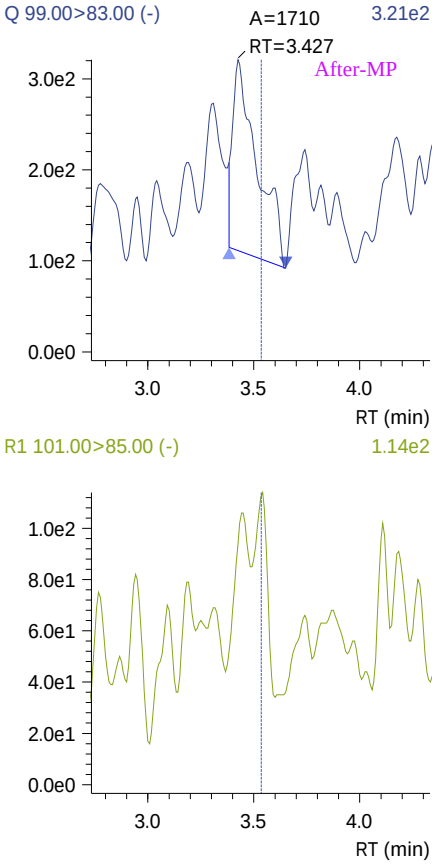
IB

Sample ID: IB
Date Acquired: 6/19/2024 3:17:14 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240618\20240618-032.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	247203	----	ng/mL	101.00 >85.00	0.00	23.56 -43.30
Sodium Perchlorate -18O4_IS	M	3.454	247203	247203	1.0000	ng/mL	----	----	

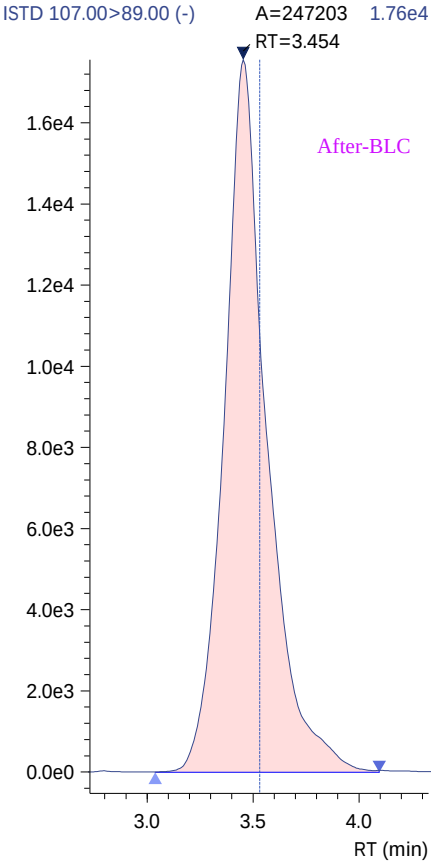
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



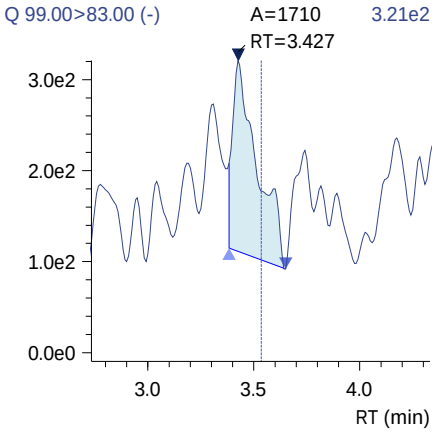
Insight Report

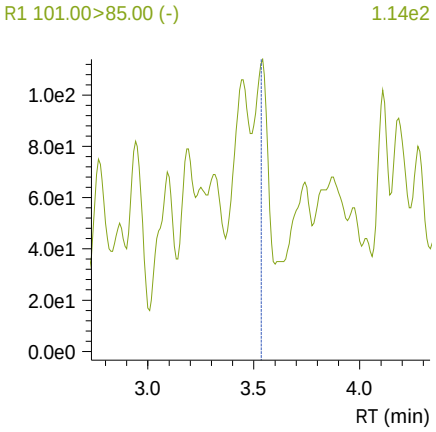
IB

Sample ID: IB
Date Acquired: 6/19/2024 3:17:14 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240618\20240618-032.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Perchlorate

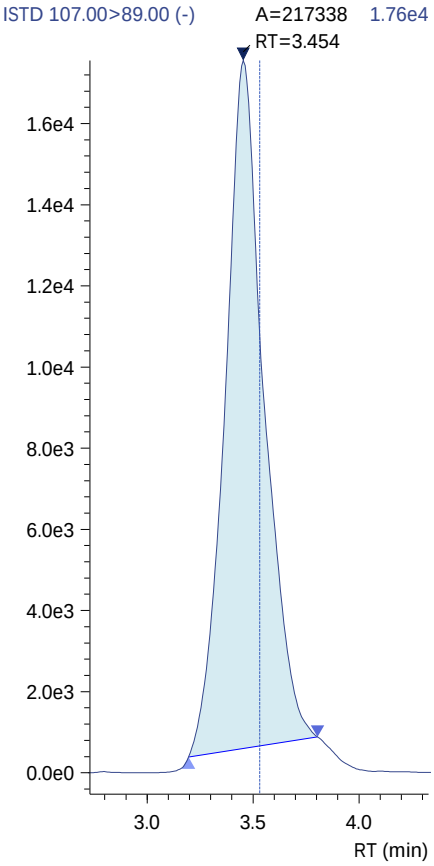
Conc 0.0539
R#1 0.00 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/24/2024 2:42:19 PM

CCV

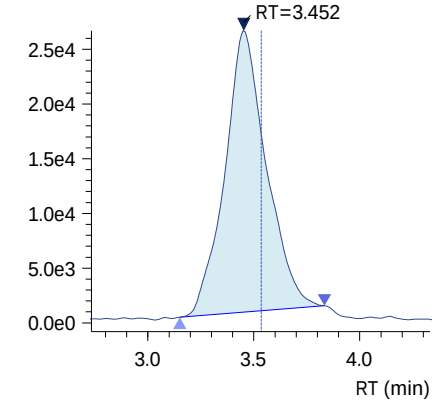
Sample ID: CCV
Date Acquired: 6/19/2024 4:18:18 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240618\20240618-043.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.452	350523	250872	9.5697	ng/mL	101.00 >85.00	33.53	23.56 -43.30
Sodium Perchlorate -18O4_IS	M	3.453	250872	250872	1.0000	ng/mL	----	----	

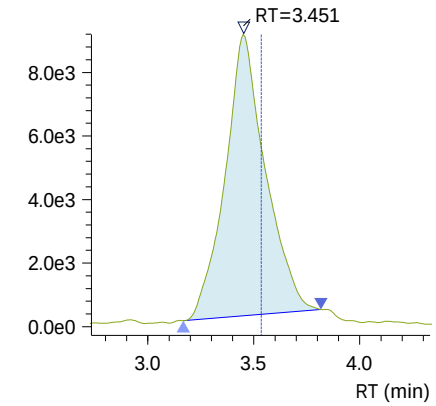
Perchlorate

Conc 9.5697
R#1 33.53 (34.10)

Q 99.00>83.00 (-) A=350523 2.67e4
RT=3.452



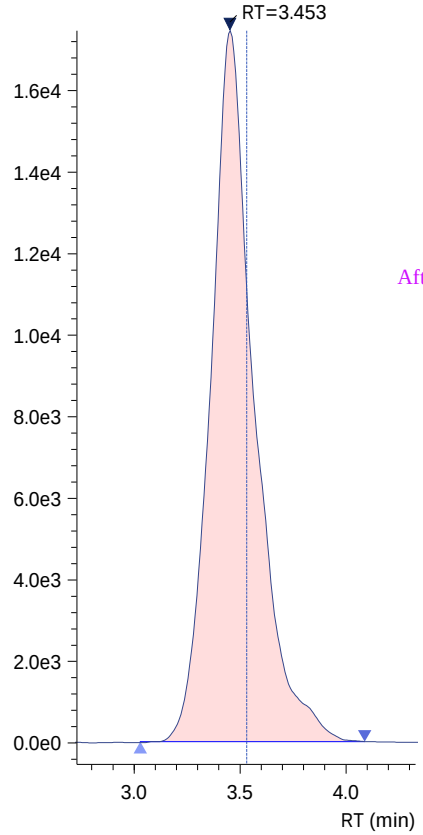
R1 101.00>85.00 (-) A=117547 9.19e3
RT=3.451



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=250872 1.75e4
RT=3.453



After-BLC

Insight Report

Printed at 6/24/2024 2:44:28 PM

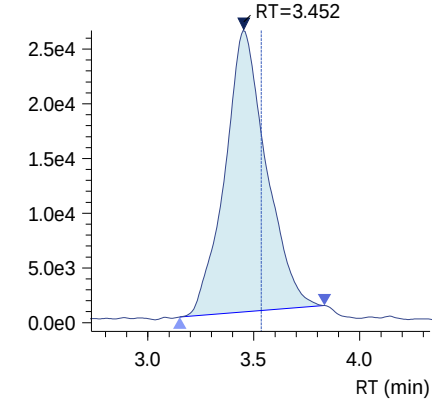
CCV

Sample ID: CCV
Date Acquired: 6/19/2024 4:18:18 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240618\20240618-043.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

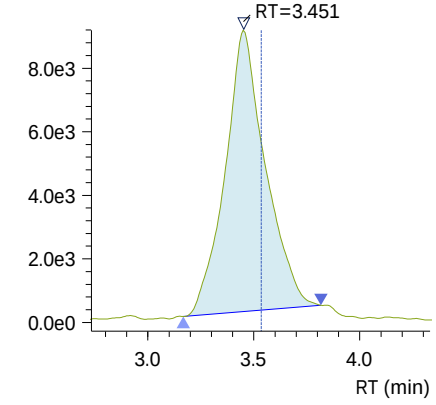
Perchlorate

Conc 10.7808
R#1 33.53 (34.10)

Q 99.00>83.00 (-) A=350523 2.67e4



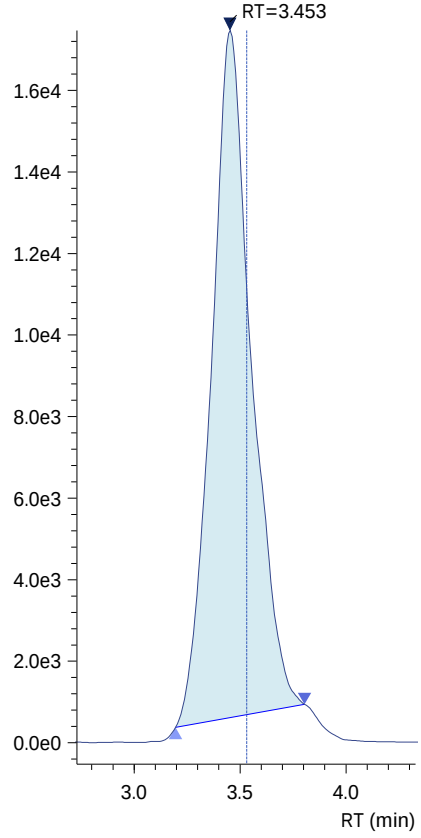
R1 101.00>85.00 (-) A=117547 9.19e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=222690 1.75e4



Insight Report

Printed at 6/24/2024 2:42:19 PM

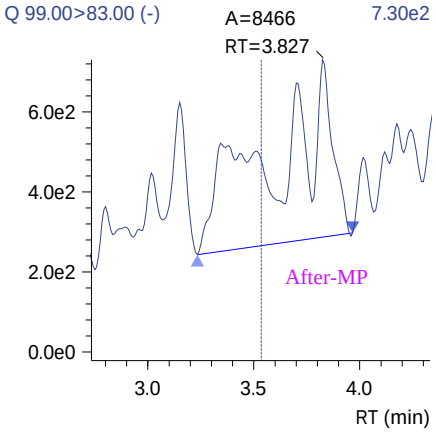
IB

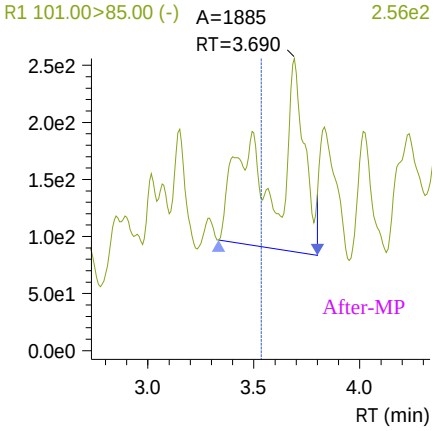
Sample ID: IB
Date Acquired: 6/19/2024 4:23:49 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240618\20240618-044.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	260882	----	ng/mL	101.00 >85.00	22.26	23.56 -43.30
Sodium Perchlorate -18O4_IS	M	3.452	260882	260882	1.0000	ng/mL	----	----	

Perchlorate

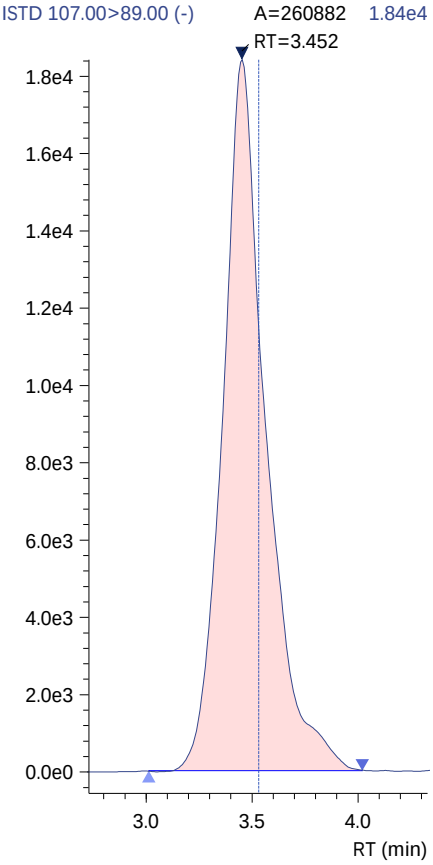
Conc ----
R#1 22.26 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/24/2024 2:44:28 PM

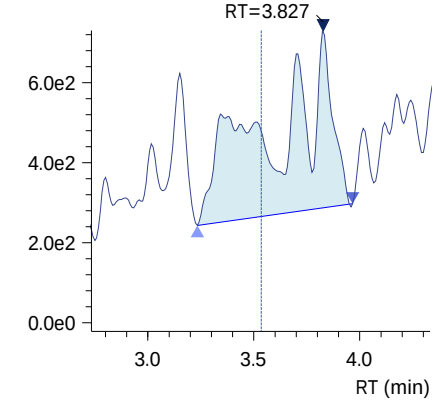
IB

Sample ID: IB
Date Acquired: 6/19/2024 4:23:49 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240618\20240618-044.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

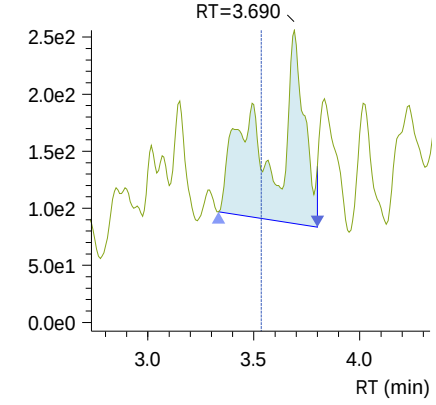
Perchlorate

Conc 0.2555
R#1 22.26 (34.10)

Q 99.00>83.00 (-) A=8466 7.30e2
RT=3.827



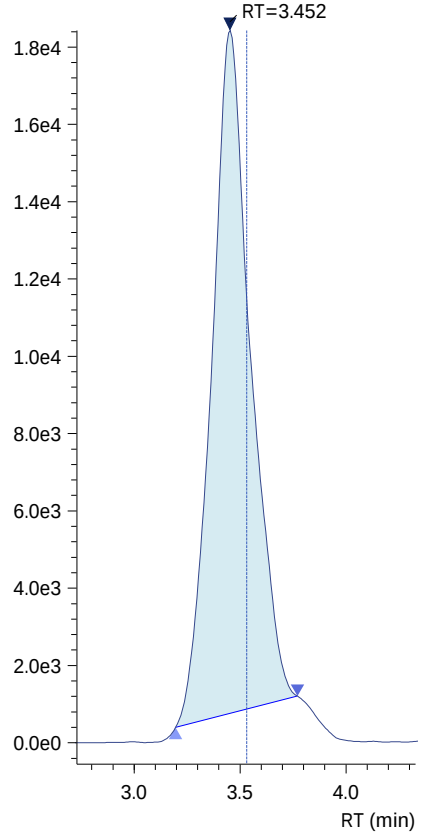
R1 101.00>85.00 (-) A=1885 2.56e2
RT=3.690



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=226967 1.84e4
RT=3.452



Insight Report

Printed at 6/24/2024 2:42:19 PM

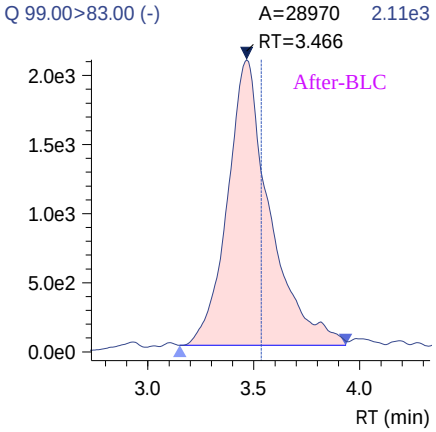
EQ2400328-05MS

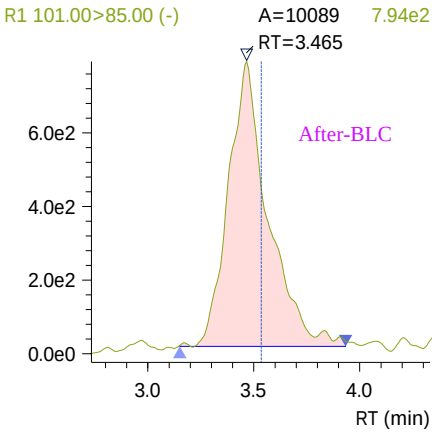
Sample ID: EQ2400328-05MS
Date Acquired: 6/19/2024 1:26:23 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240618\20240618-012.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.466	28970	201125	0.9865	ng/mL	101.00 >85.00	34.83	23.56 -43.30
Sodium Perchlorate -18O4_IS	M	3.457	201125	201125	1.0000	ng/mL	----	----	

Perchlorate

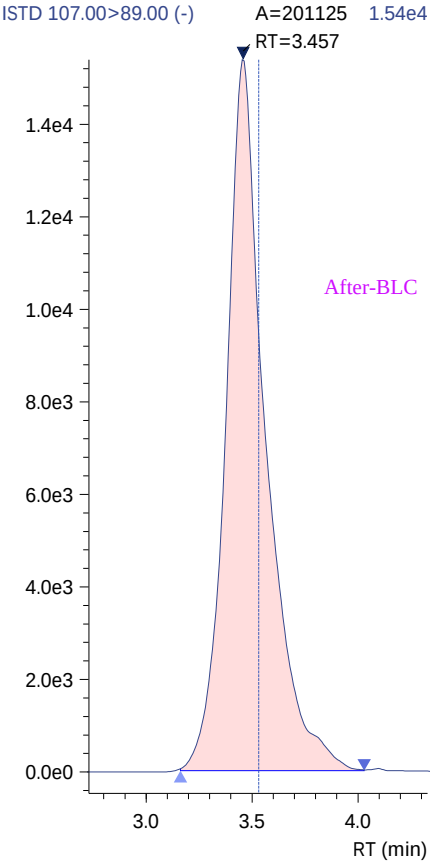
Conc 0.9865
R#1 34.83 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/24/2024 2:44:28 PM

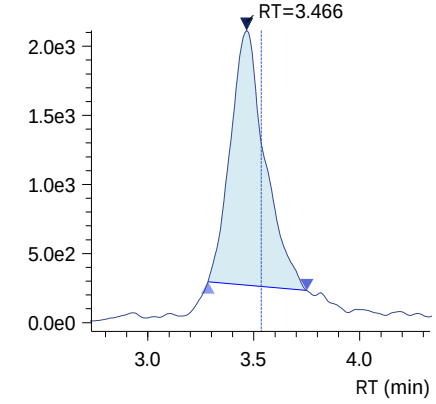
EQ2400328-05MS

Sample ID: EQ2400328-05MS
Date Acquired: 6/19/2024 1:26:23 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240618\20240618-012.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 2

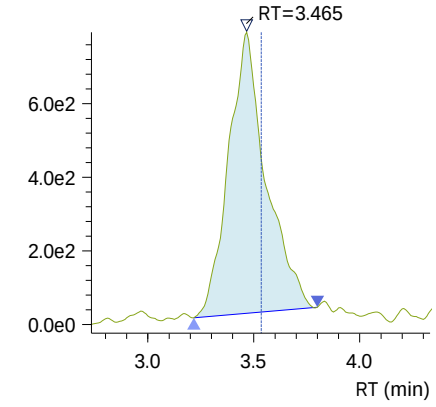
Perchlorate

Conc 0.8138
R#1 44.91 (34.10)

Q 99.00>83.00 (-) A=20976 2.11e3



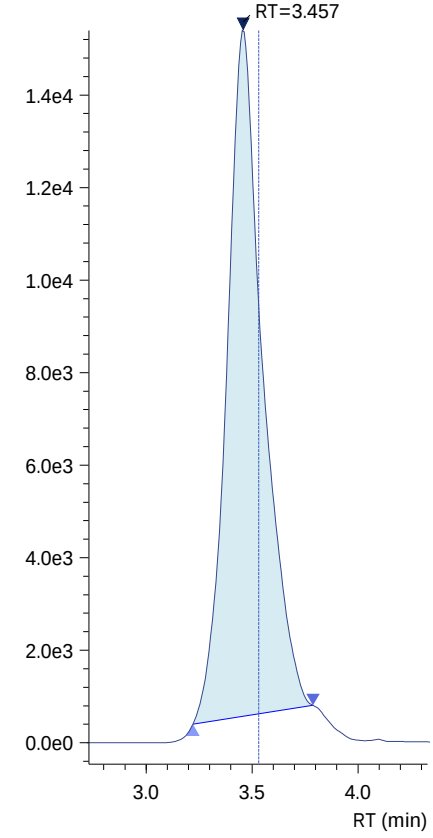
R1 101.00>85.00 (-) A=9420 7.94e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=176539 1.54e4



Insight Report

Printed at 6/24/2024 2:42:19 PM

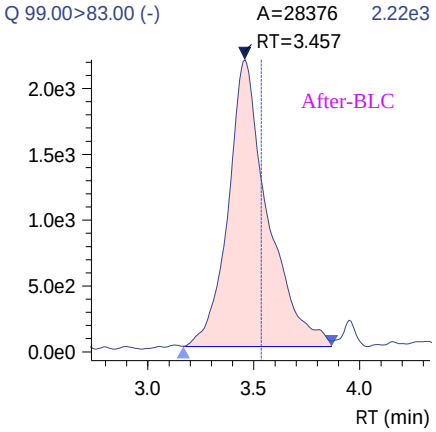
EQ2400328-06DMS

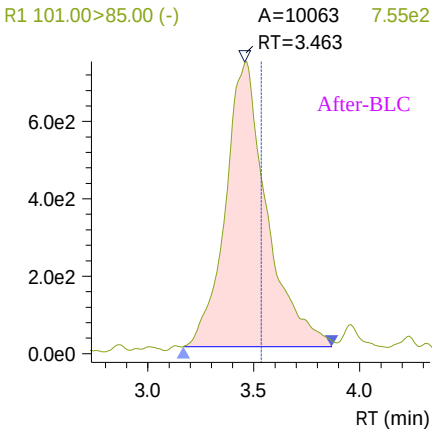
Sample ID: EQ2400328-06DMS
Date Acquired: 6/19/2024 1:31:58 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240618\20240618-013.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.457	28376	200929	0.9672	ng/mL	101.00 >85.00	35.46	23.56 -43.30
Sodium Perchlorate -18O4_IS	M	3.455	200929	200929	1.0000	ng/mL	----	----	

Perchlorate

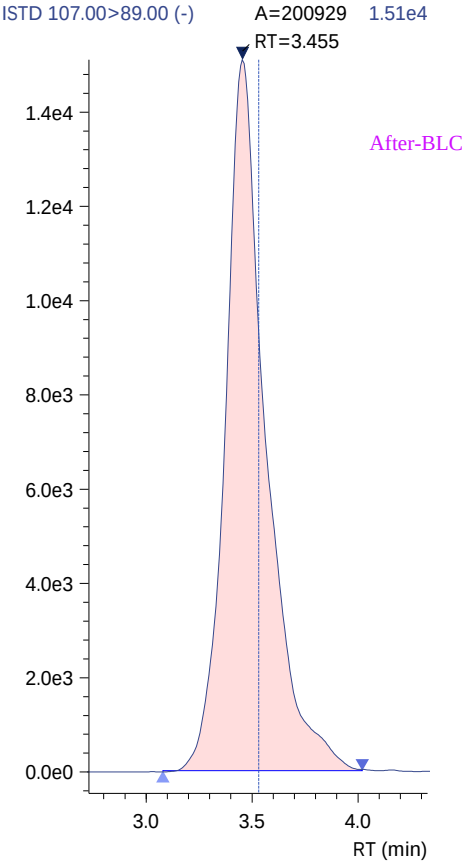
Conc 0.9672
R#1 35.46 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/24/2024 2:44:28 PM

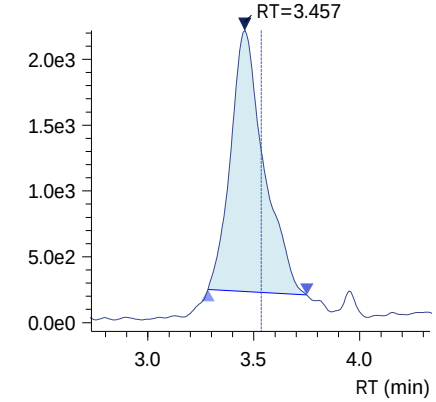
EQ2400328-06DMS

Sample ID: EQ2400328-06DMS
Date Acquired: 6/19/2024 1:31:58 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240618\20240618-013.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 2

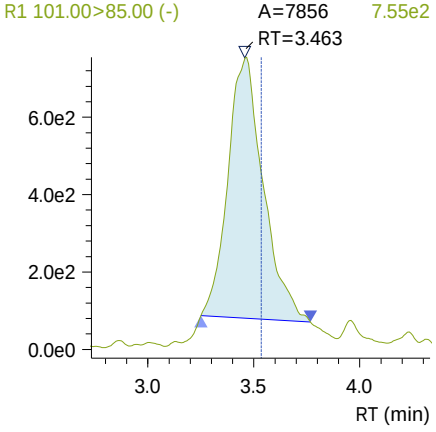
Perchlorate

Conc 0.8417
R#1 36.19 (34.10)

Q 99.00>83.00 (-) A=21705 2.22e3



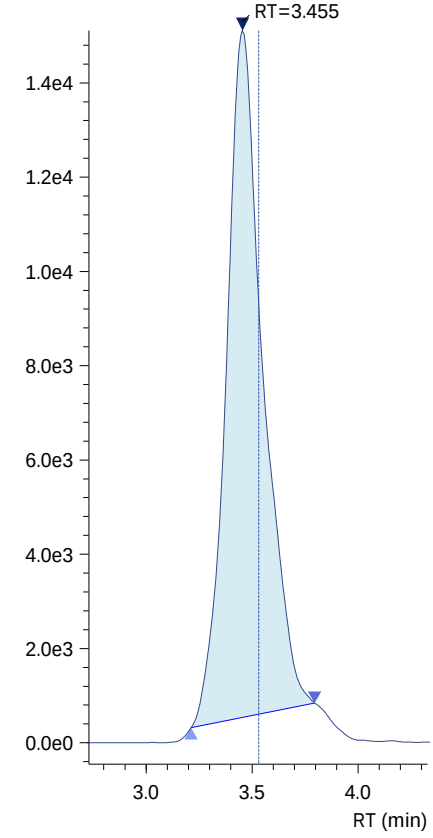
R1 101.00>85.00 (-) A=7856 7.55e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=176623 1.51e4



Insight Report

Printed at 6/24/2024 2:42:19 PM

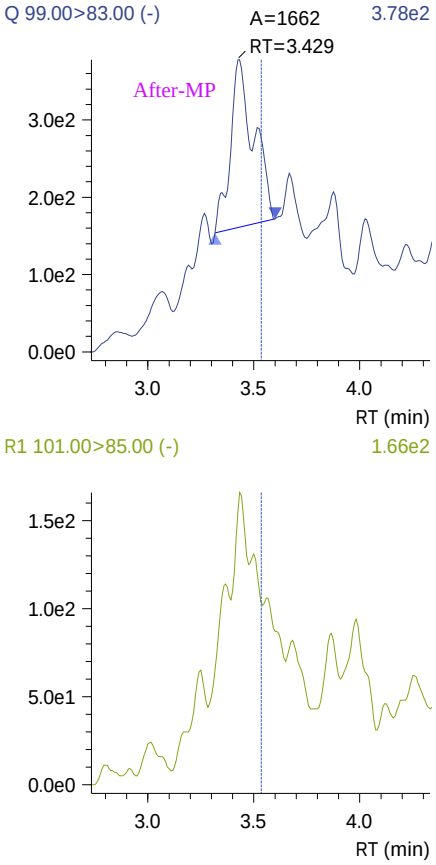
E2400684-002

Sample ID: E2400684-002
Date Acquired: 6/19/2024 2:43:58 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240618\20240618-026.lcd
Vial: 17 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	158544	----	ng/mL	101.00 >85.00	0.00	23.56 -43.30
Sodium Perchlorate -18O4_IS	M	3.467	158544	158544	1.0000	ng/mL	----	----	

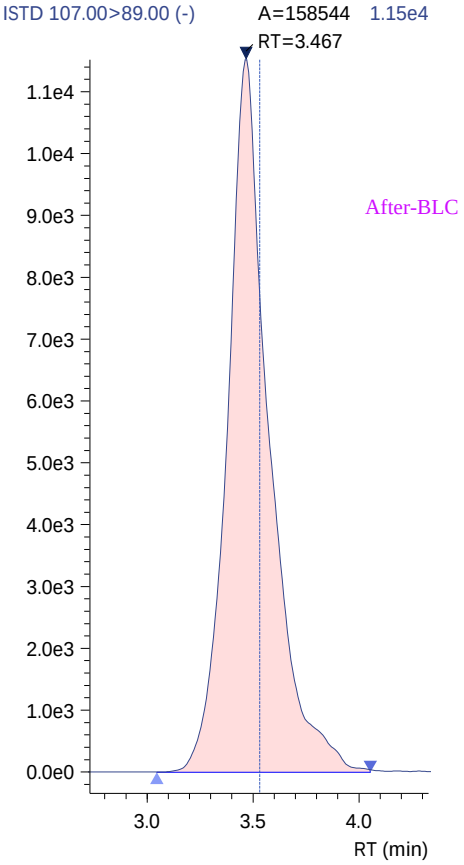
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/24/2024 2:44:28 PM

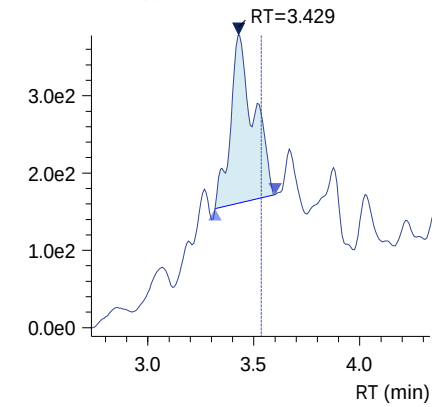
E2400684-002

Sample ID: E2400684-002
Date Acquired: 6/19/2024 2:43:58 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240618\20240618-026.lcd
Vial: 17 | Inj. Volume: 10.0000uL | Tray: 2

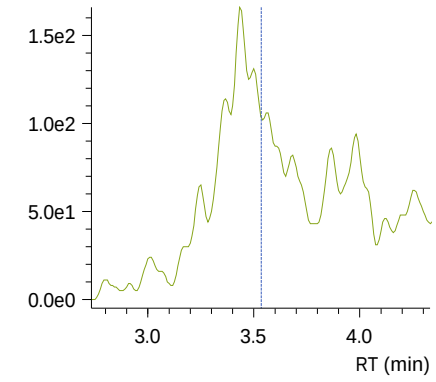
Perchlorate

Conc 0.0842
R#1 0.00 (34.10)

Q 99.00>83.00 (-) A=1662 3.78e2



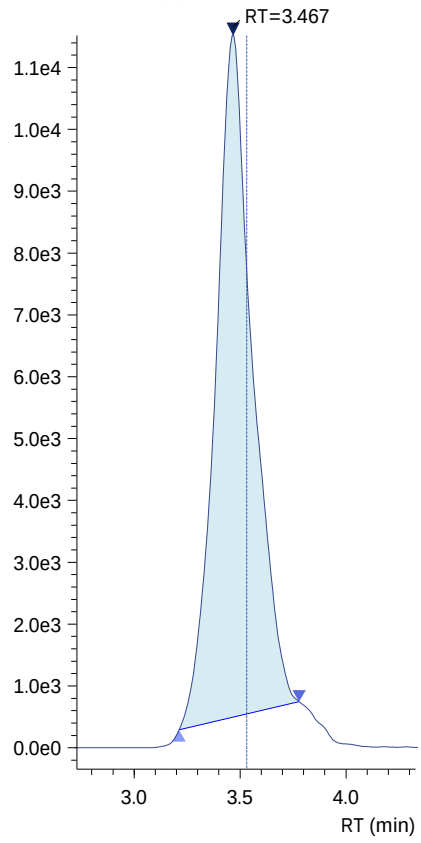
R1 101.00>85.00 (-) 1.66e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=135151 1.15e4



Insight Report

Printed at 6/24/2024 2:42:19 PM

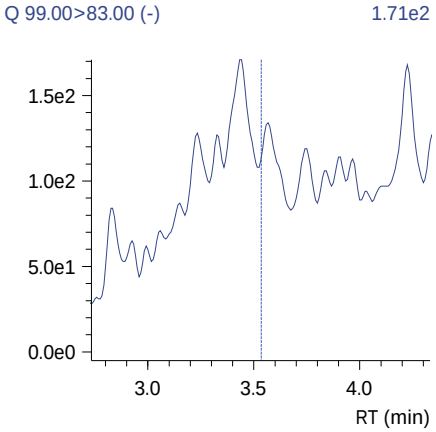
E2400684-003

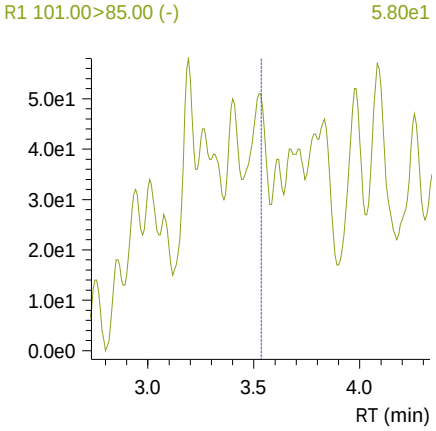
Sample ID: E2400684-003
Date Acquired: 6/19/2024 2:49:32 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240618\20240618-027.lcd
Vial: 18 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	236256	----	ng/mL	101.00 >85.00	0.00	23.56 -43.30
Sodium Perchlorate-18O4_IS	M	3.457	236256	236256	1.0000	ng/mL	----	----	

Perchlorate

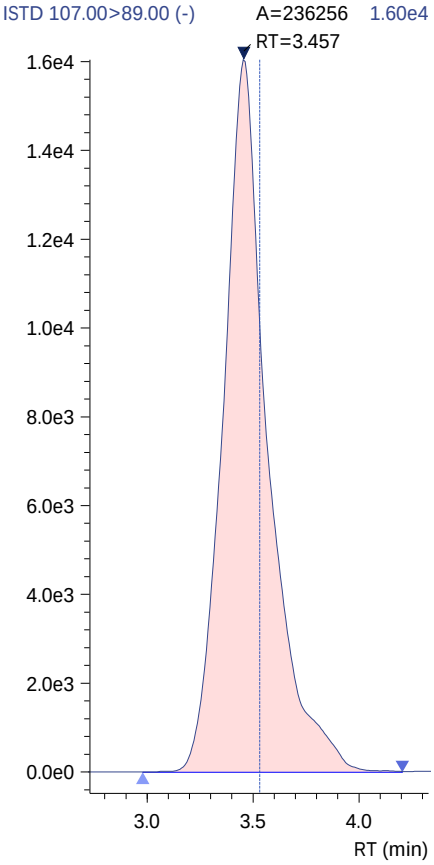
Conc ----
R#1 0.00 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



After-BLC

Insight Report

Printed at 6/24/2024 2:44:28 PM

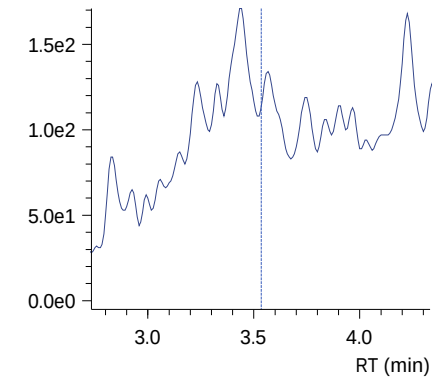
E2400684-003

Sample ID: E2400684-003
Date Acquired: 6/19/2024 2:49:32 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240618\20240618-027.lcd
Vial: 18 | Inj. Volume: 10.0000uL | Tray: 2

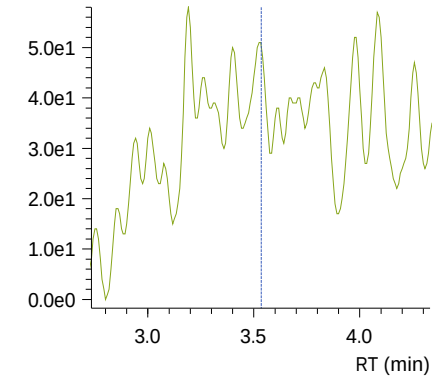
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 1.71e2



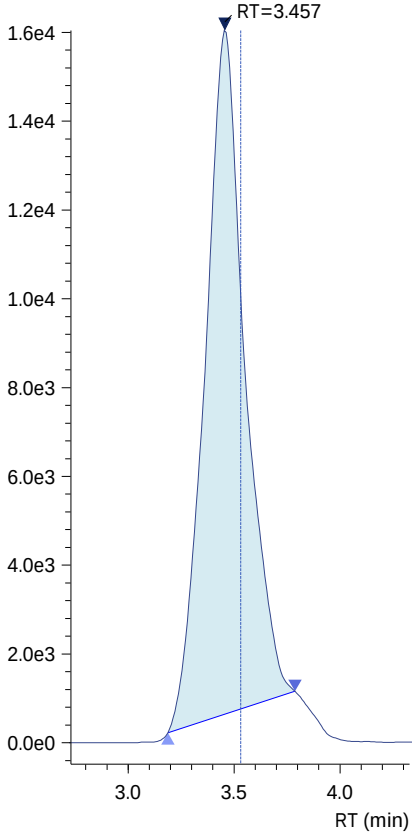
R1 101.00>85.00 (-) 5.80e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=203159 1.60e4
RT=3.457



Insight Report

Printed at 6/24/2024 2:42:19 PM

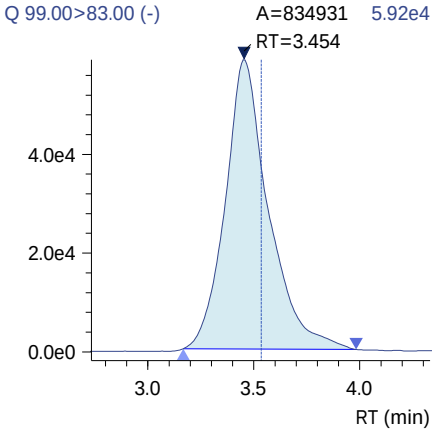
E2400684-004

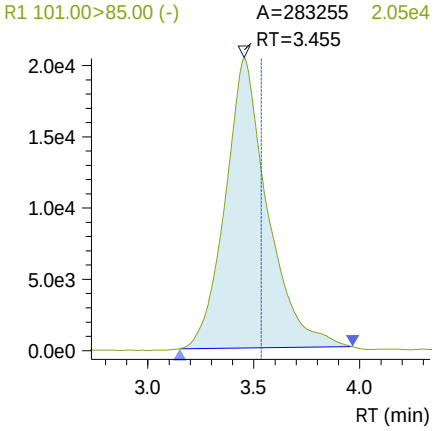
Sample ID: E2400684-004
Date Acquired: 6/19/2024 2:55:07 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240618\20240618-028.lcd
Vial: 19 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.454	834931	193159	29.6053	ng/mL	101.00 >85.00	33.93	23.56 -43.30
Sodium Perchlorate-18O4_IS	M	3.456	193159	193159	1.0000	ng/mL	----	----	

Perchlorate

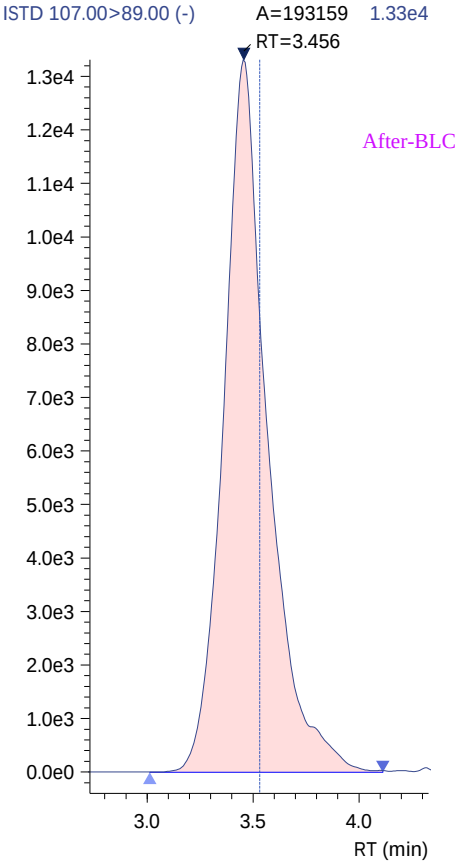
Conc 29.6053
R#1 33.93 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/24/2024 2:44:28 PM

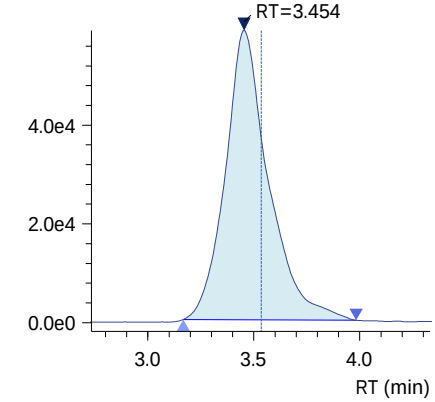
E2400684-004

Sample ID: E2400684-004
Date Acquired: 6/19/2024 2:55:07 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240618\20240618-028.lcd
Vial: 19 | Inj. Volume: 10.0000uL | Tray: 2

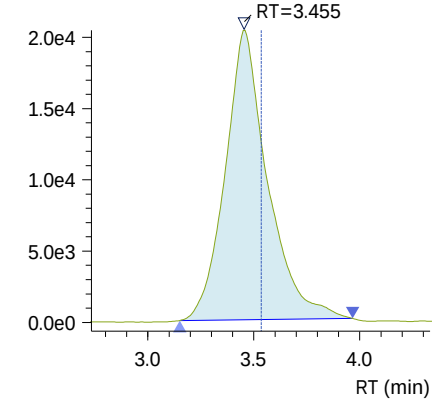
Perchlorate

Conc 34.2474
R#1 33.93 (34.10)

Q 99.00>83.00 (-) A=834931 5.92e4



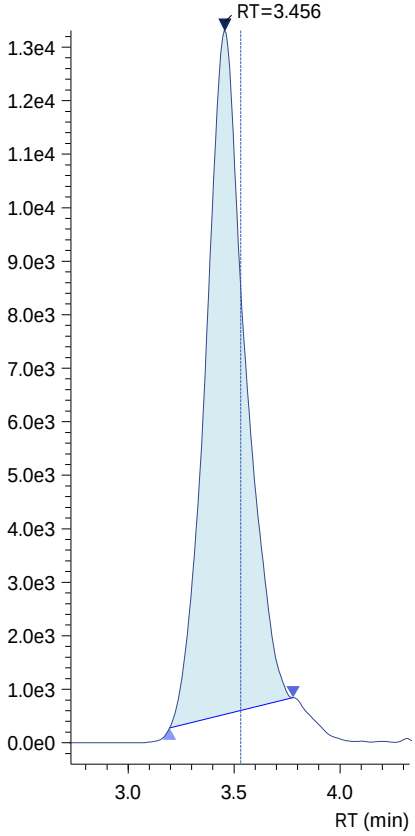
R1 101.00>85.00 (-) A=283255 2.05e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=166976 1.33e4



Insight Report

Printed at 6/24/2024 2:42:19 PM

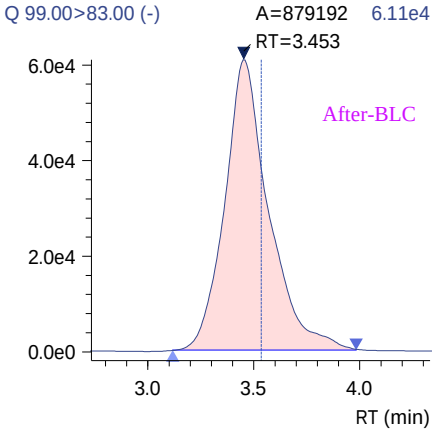
E2400684-005

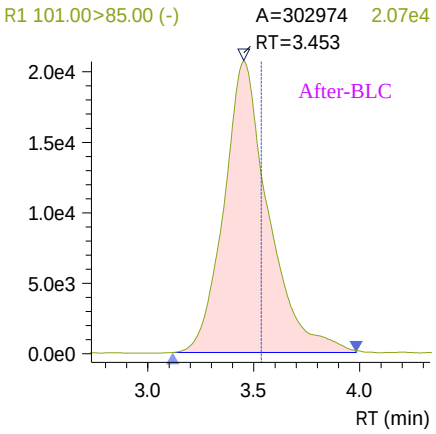
Sample ID: E2400684-005
Date Acquired: 6/19/2024 3:00:39 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240618\20240618-029.lcd
Vial: 20 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.453	879192	191725	31.4079	ng/mL	101.00 >85.00	34.46	23.56 -43.30
Sodium Perchlorate-18O4_IS	M	3.451	191725	191725	1.0000	ng/mL	----	----	

Perchlorate

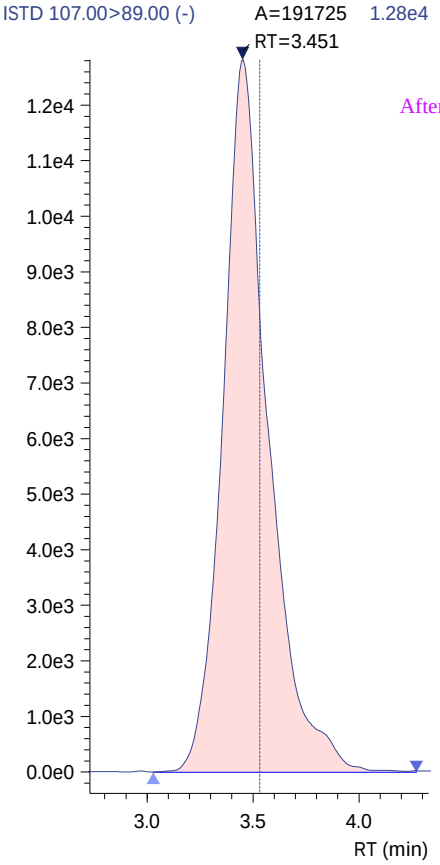
Conc 31.4079
R#1 34.46 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/24/2024 2:44:28 PM

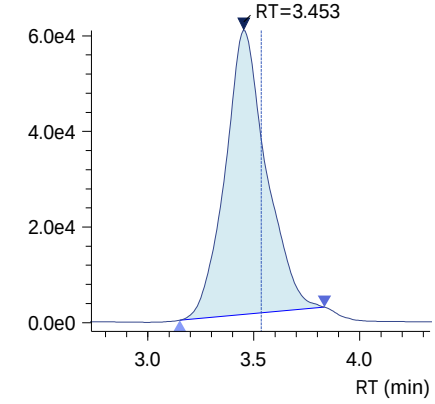
E2400684-005

Sample ID: E2400684-005
Date Acquired: 6/19/2024 3:00:39 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240618\20240618-029.lcd
Vial: 20 | Inj. Volume: 10.0000uL | Tray: 2

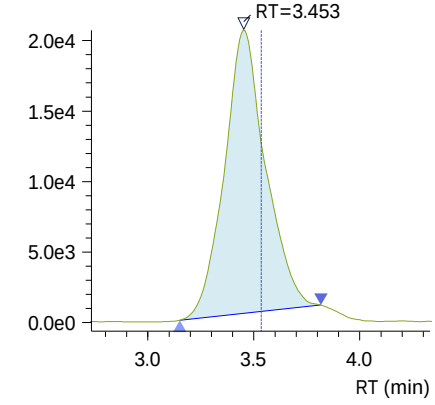
Perchlorate

Conc 32.7979
R#1 33.69 (34.10)

Q 99.00>83.00 (-) A=806472 6.11e4



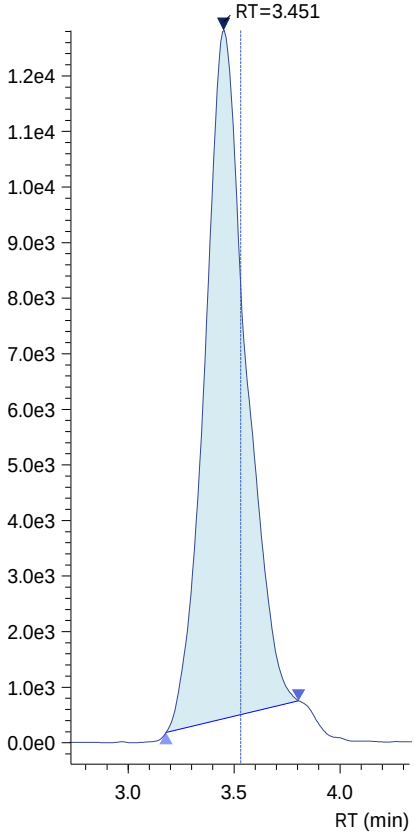
R1 101.00>85.00 (-) A=271724 2.07e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=168413 1.28e4



Insight Report

Printed at 6/24/2024 2:42:19 PM

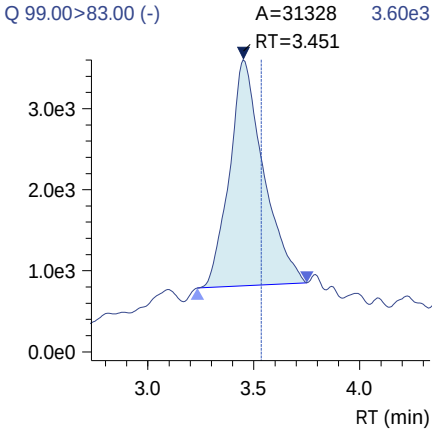
E2400684-009

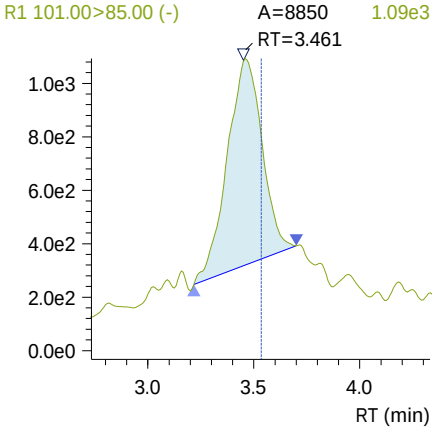
Sample ID: E2400684-009
Date Acquired: 6/19/2024 3:33:50 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240618\20240618-035.lcd
Vial: 24 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.451	31328	265466	0.8083	ng/mL	101.00 >85.00	28.25	23.56 -43.30
Sodium Perchlorate -18O4_IS	M	3.455	265466	265466	1.0000	ng/mL	----	----	

Perchlorate

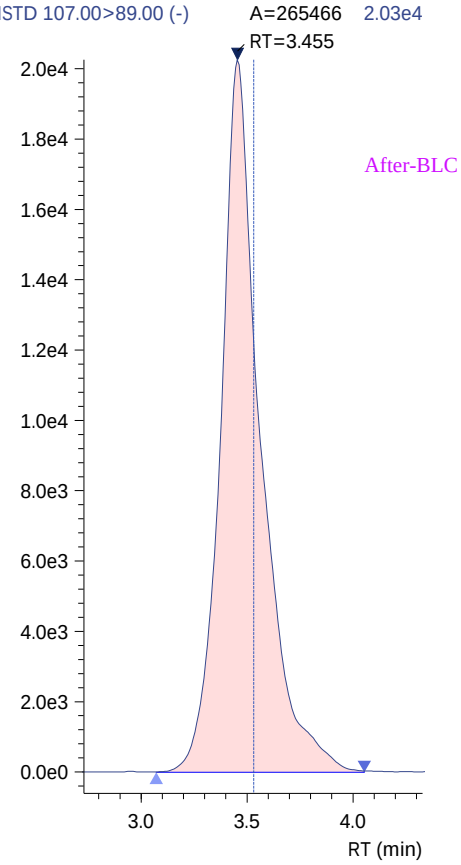
Conc 0.8083
R#1 28.25 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/24/2024 2:44:28 PM

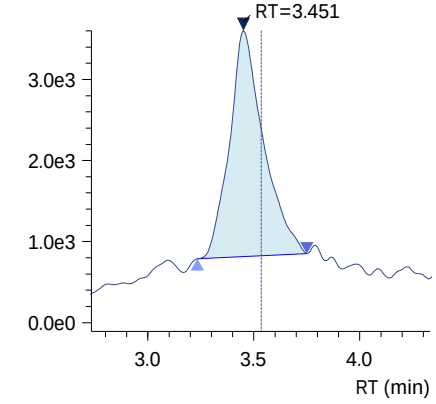
E2400684-009

Sample ID: E2400684-009
Date Acquired: 6/19/2024 3:33:50 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240618\20240618-035.lcd
Vial: 24 | Inj. Volume: 10.0000uL | Tray: 2

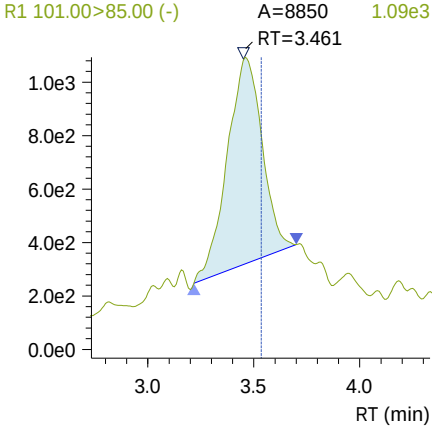
Perchlorate

Conc 0.9321
R#1 28.25 (34.10)

Q 99.00>83.00 (-) A=31328 3.60e3



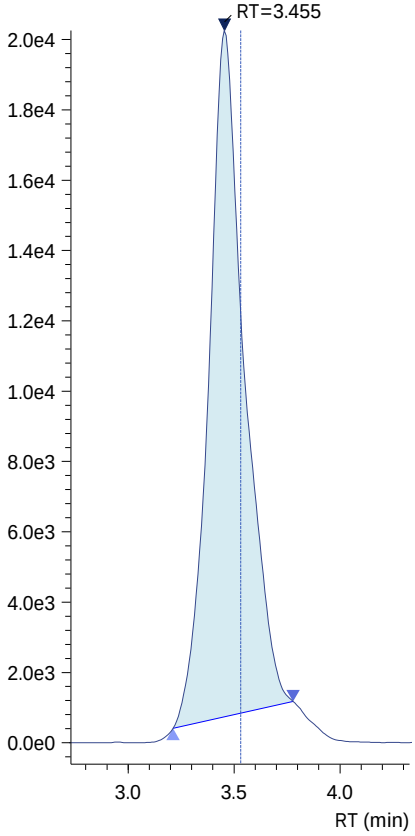
R1 101.00>85.00 (-) A=8850 1.09e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=230201 2.03e4



Insight Report

Printed at 6/24/2024 2:42:19 PM

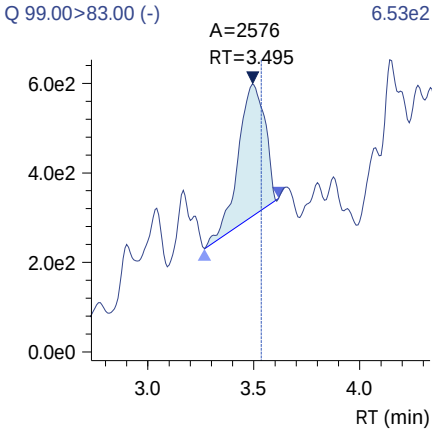
E2400684-001

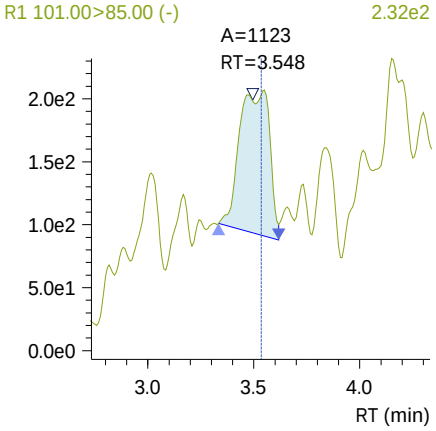
Sample ID: E2400684-001
Date Acquired: 6/19/2024 4:42:32 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240618\20240618-045.lcd
Vial: 16 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.495	2576	145627	0.1211	ng/mL	101.00 >85.00	43.59	23.56 -43.30
Sodium Perchlorate -18O4_IS	M	3.465	145627	145627	1.0000	ng/mL	----	----	

Perchlorate

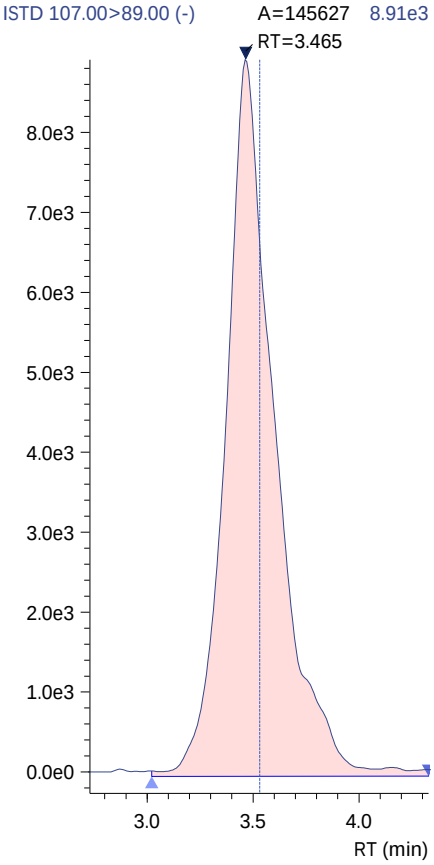
Conc 0.1211
R#1 43.59 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



After-BLC

Insight Report

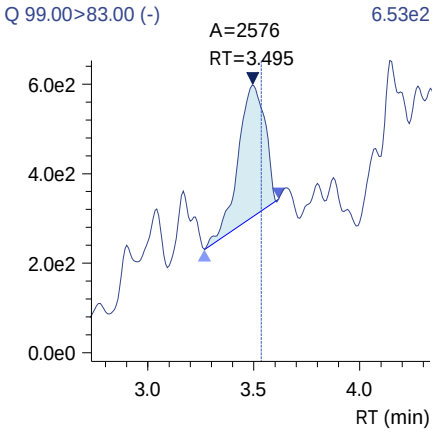
Printed at 6/24/2024 2:44:28 PM

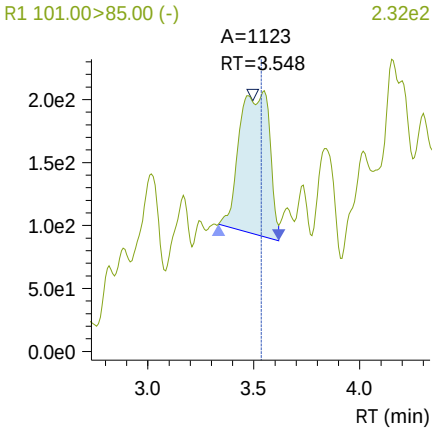
E2400684-001

Sample ID: E2400684-001
Date Acquired: 6/19/2024 4:42:32 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240618\20240618-045.lcd
Vial: 16 | Inj. Volume: 10.0000uL | Tray: 2

Perchlorate

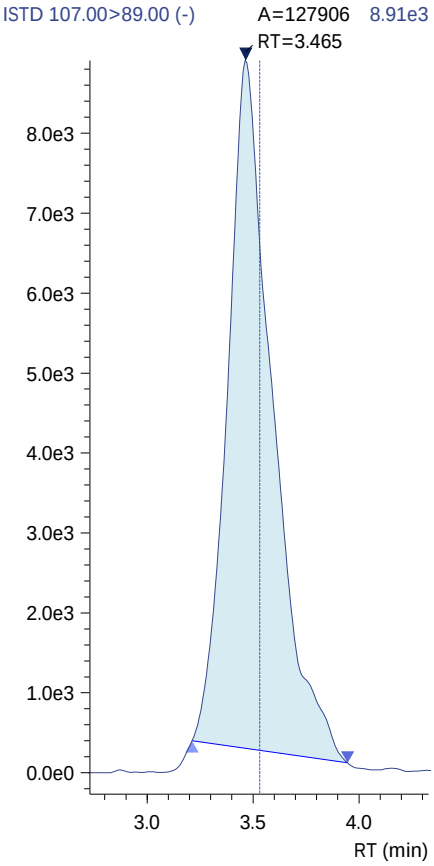
Conc 0.1379
R#1 43.59 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/24/2024 2:42:19 PM

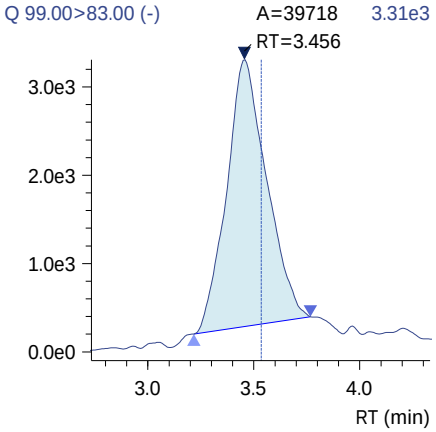
E2400684-006

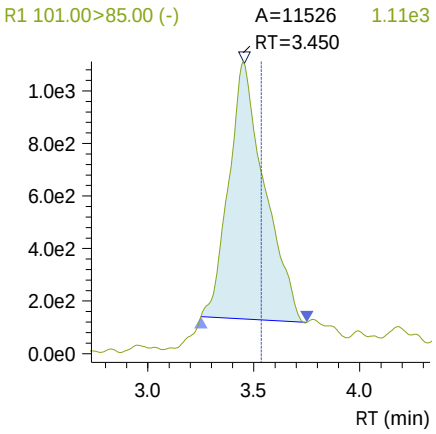
Sample ID: E2400684-006
Date Acquired: 6/19/2024 4:48:08 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240618\20240618-046.lcd
Vial: 21 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.456	39718	187011	1.4546	ng/mL	101.00 >85.00	29.02	23.56 -43.30
Sodium Perchlorate -18O4_IS	M	3.454	187011	187011	1.0000	ng/mL	----	----	

Perchlorate

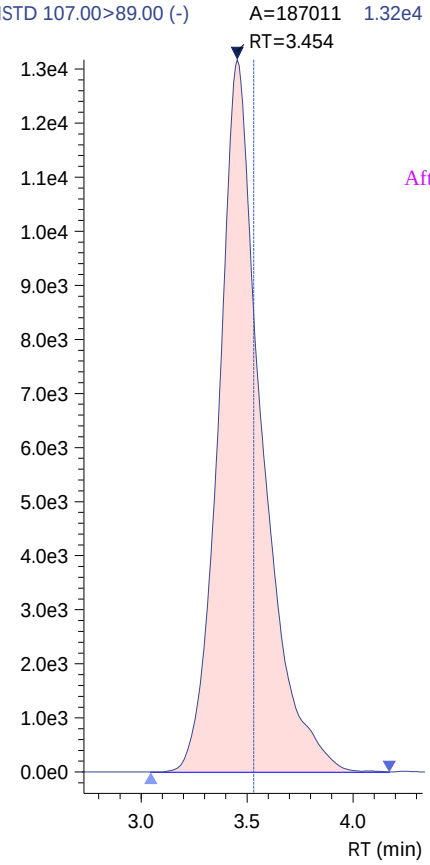
Conc 1.4546
R#1 29.02 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



After-BLC

Insight Report

Printed at 6/24/2024 2:44:28 PM

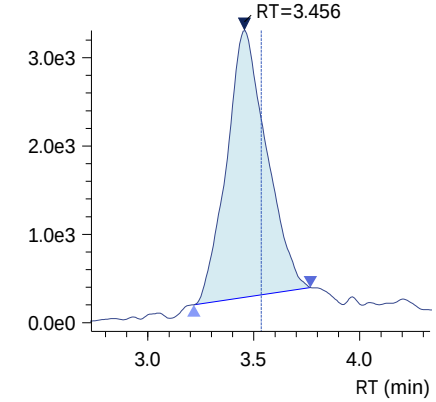
E2400684-006

Sample ID: E2400684-006
Date Acquired: 6/19/2024 4:48:08 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240618\20240618-046.lcd
Vial: 21 | Inj. Volume: 10.0000uL | Tray: 2

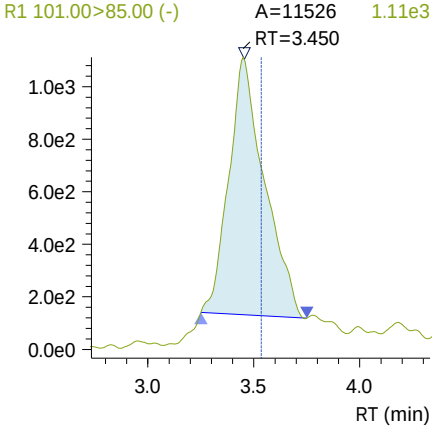
Perchlorate

Conc 1.5363
R#1 29.02 (34.10)

Q 99.00>83.00 (-) A=39718 3.31e3



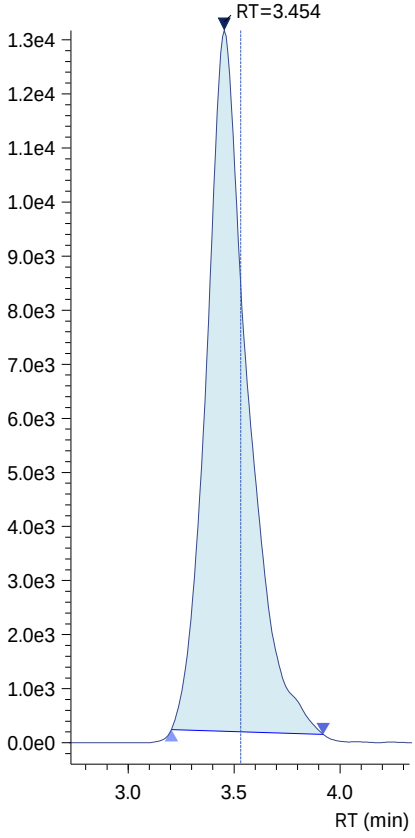
R1 101.00>85.00 (-) A=11526 1.11e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=177075 1.32e4



Insight Report

Printed at 6/24/2024 2:42:19 PM

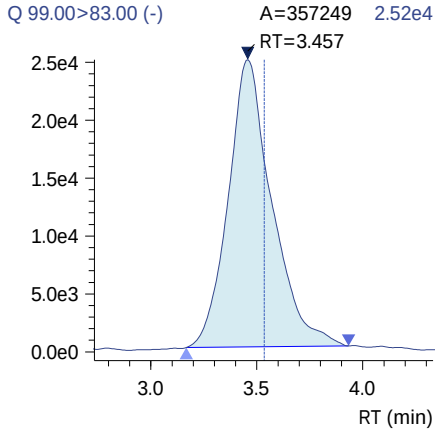
CCV

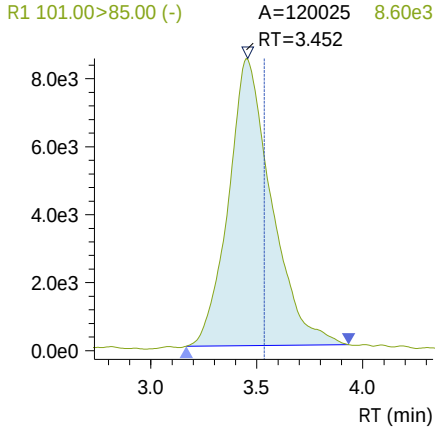
Sample ID: CCV
Date Acquired: 6/19/2024 4:59:11 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240618\20240618-048.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.457	357249	251087	9.7449	ng/mL	101.00 >85.00	33.60	23.56 -43.30
Sodium Perchlorate -18O4_IS	M	3.453	251087	251087	1.0000	ng/mL	----	----	

Perchlorate

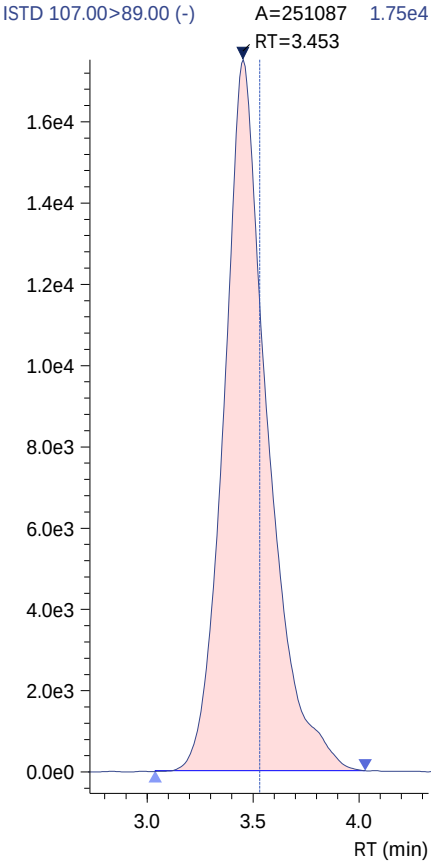
Conc 9.7449
R#1 33.60 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



After-BLC

Insight Report

Printed at 6/24/2024 2:44:28 PM

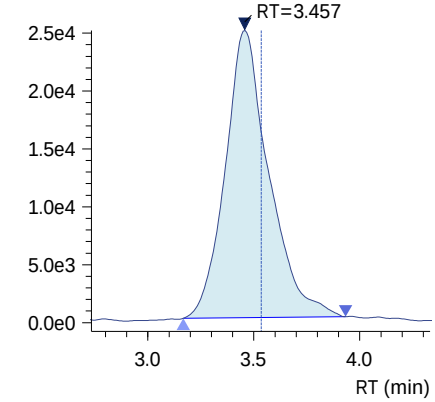
CCV

Sample ID: CCV
Date Acquired: 6/19/2024 4:59:11 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240618\20240618-048.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

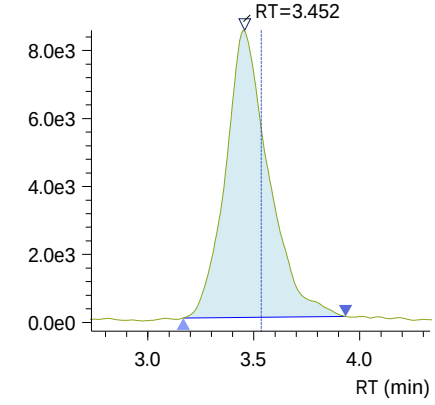
Perchlorate

Conc 11.0589
R#1 33.60 (34.10)

Q 99.00>83.00 (-) A=357249 2.52e4



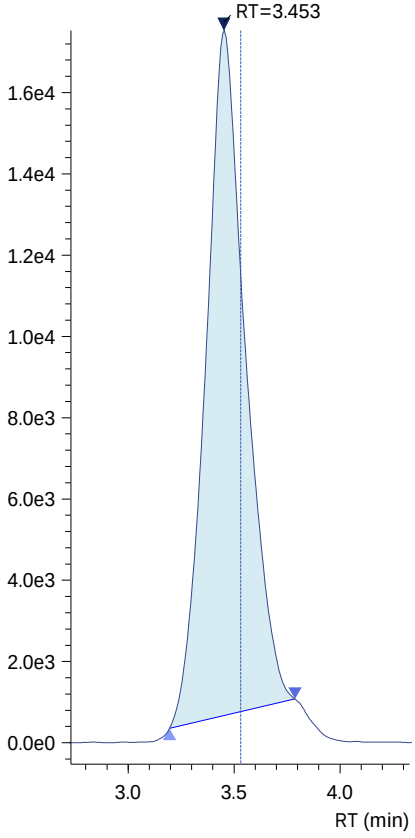
R1 101.00>85.00 (-) A=120025 8.60e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=221255 1.75e4



Insight Report

Printed at 6/24/2024 2:42:19 PM

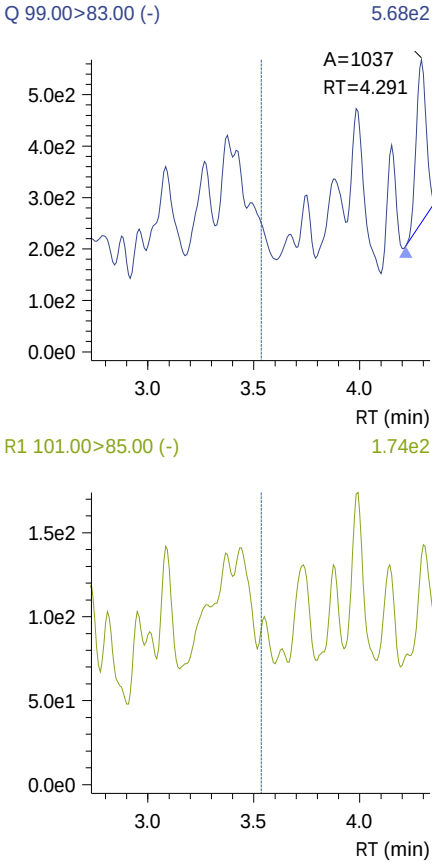
IB

Sample ID: IB
Date Acquired: 6/19/2024 5:04:42 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240618\20240618-049.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	262638	----	ng/mL	101.00 >85.00	0.00	23.56 -43.30
Sodium Perchlorate-18O4_IS	M	3.450	262638	262638	1.0000	ng/mL	----	----	

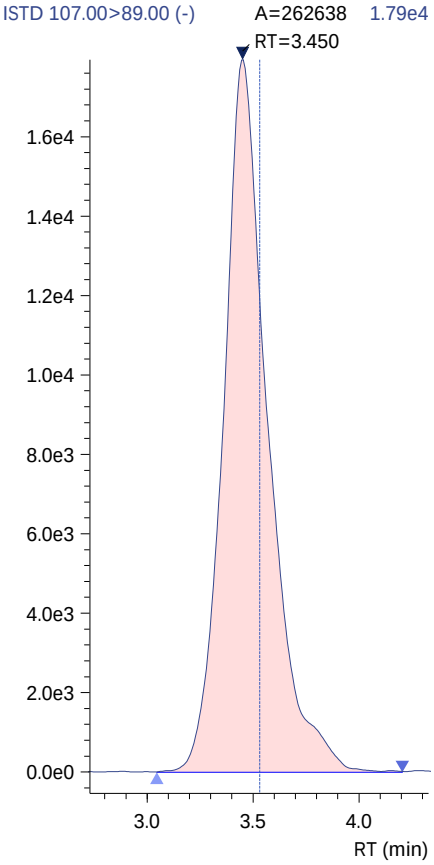
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



After-BLC

Insight Report

Printed at 6/24/2024 2:44:28 PM

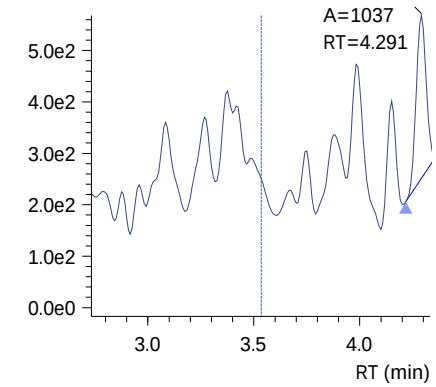
IB

Sample ID: IB
Date Acquired: 6/19/2024 5:04:42 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240618\20240618-049.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

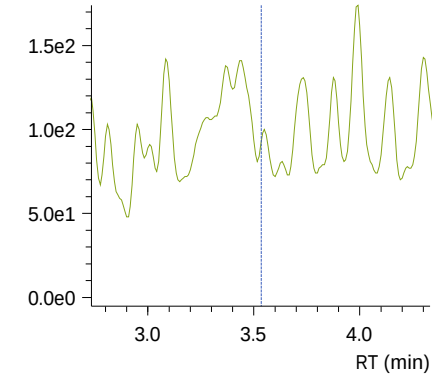
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 5.68e2



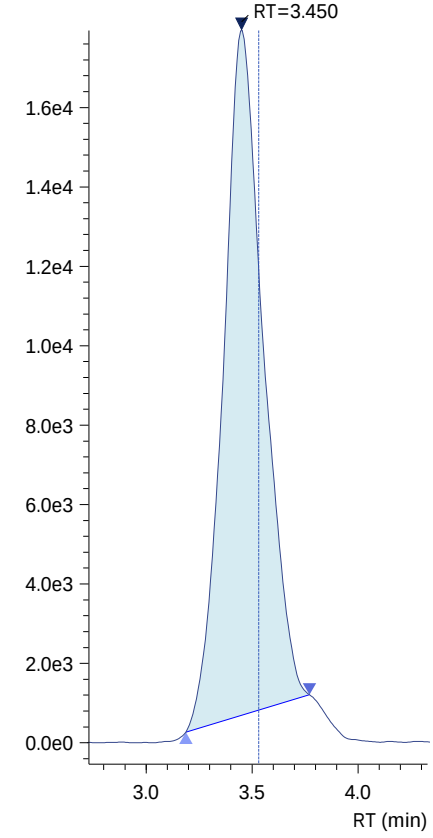
R1 101.00>85.00 (-) 1.74e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=227969 1.79e4



Insight Report

Printed at 6/24/2024 2:50:00 PM

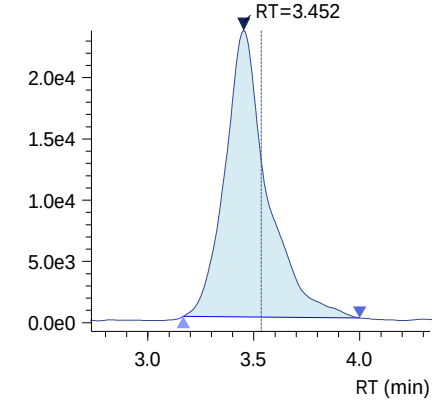
E2400684-008X1000

Sample ID: E2400684-008X1000
Date Acquired: 6/20/2024 10:29:26 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-018.lcd
Vial: 30 | Inj. Volume: 10.0000uL | Tray: 2

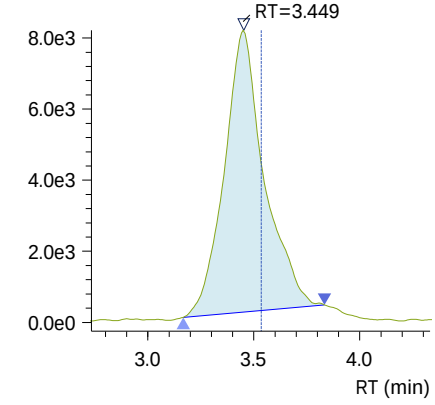
Perchlorate

Conc 10.3792
R#1 31.88 (34.10)

Q 99.00>83.00 (-) A=326123 2.39e4



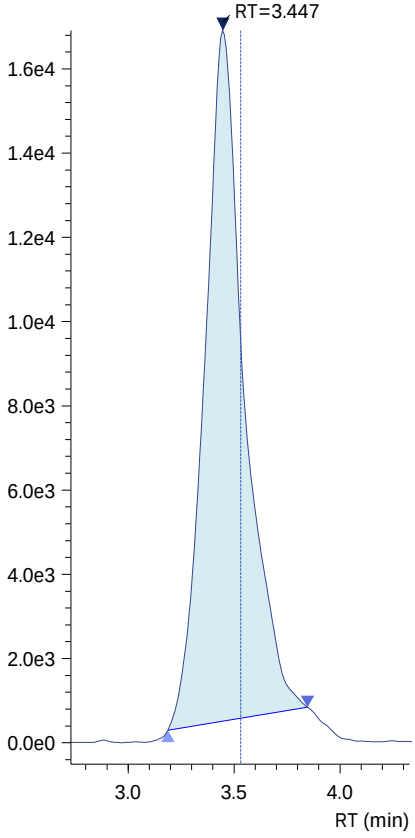
R1 101.00>85.00 (-) A=103980 8.22e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=215204 1.69e4



Insight Report

Printed at 6/24/2024 2:49:07 PM

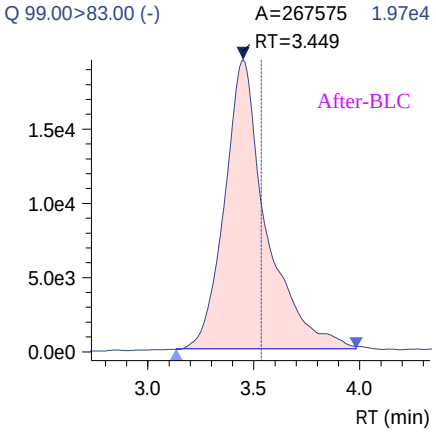
E2400684-007X10

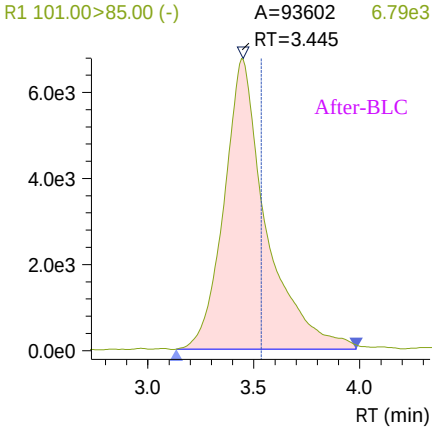
Sample ID: E2400684-007X10
Date Acquired: 6/20/2024 10:23:55 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-017.lcd
Vial: 29 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.449	2675 75	353715	5.1811	ng/mL	101.00 >85.00	34.98	23.86 -43.30
Sodium Perchlorate-18O4_IS	M	3.446	3537 15	353715	1.0000	ng/mL	----	----	

Perchlorate

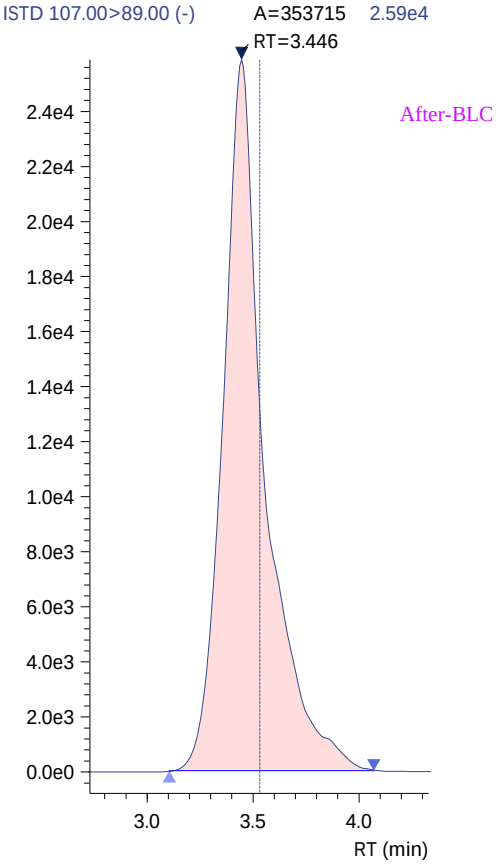
Conc 5.1811
R#1 34.98 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 6/24/2024 2:50:00 PM

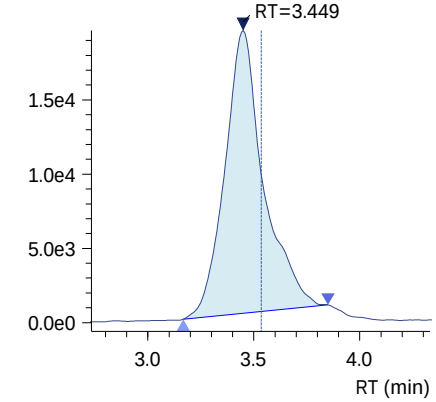
E2400684-007X10

Sample ID: E2400684-007X10
Date Acquired: 6/20/2024 10:23:55 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-017.lcd
Vial: 29 | Inj. Volume: 10.0000uL | Tray: 2

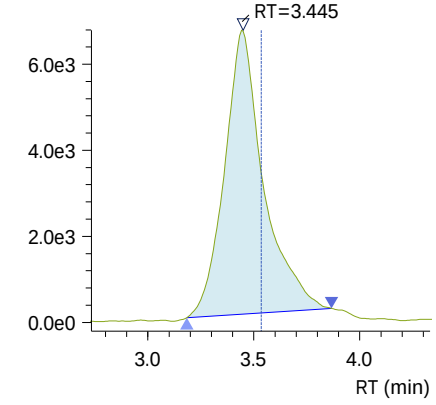
Perchlorate

Conc 5.2528
R#1 34.98 (34.10)

Q 99.00>83.00 (-) A=242056 1.97e4



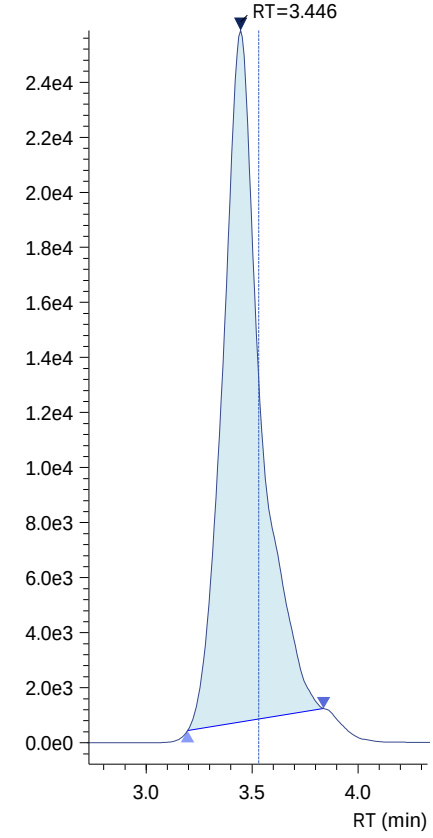
R1 101.00>85.00 (-) A=84675 6.79e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) A=315614 2.59e4



Insight Report

Printed at 6/24/2024 2:49:07 PM

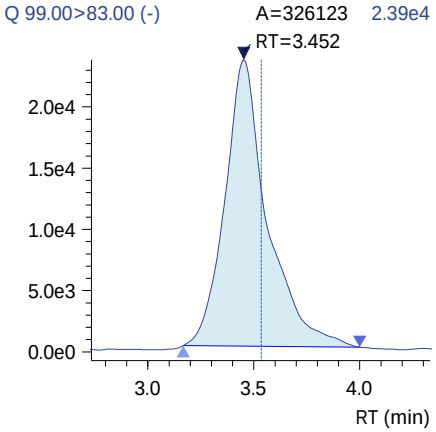
E2400684-008X1000

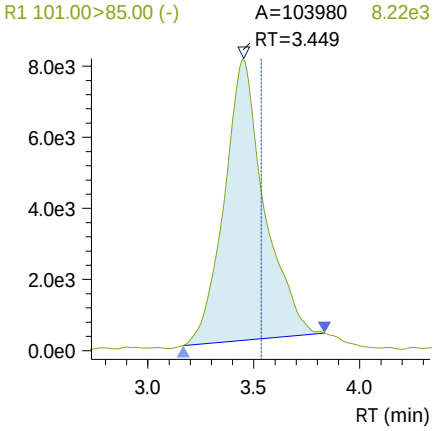
Sample ID: E2400684-008X1000
Date Acquired: 6/20/2024 10:29:26 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240620\20240620-018.lcd
Vial: 30 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.452	326123	241139	9.2629	ng/mL	101.00 >85.00	31.88	23.86 -43.30
Sodium Perchlorate-18O4_IS	M	3.447	241139	241139	1.0000	ng/mL	----	----	

Perchlorate

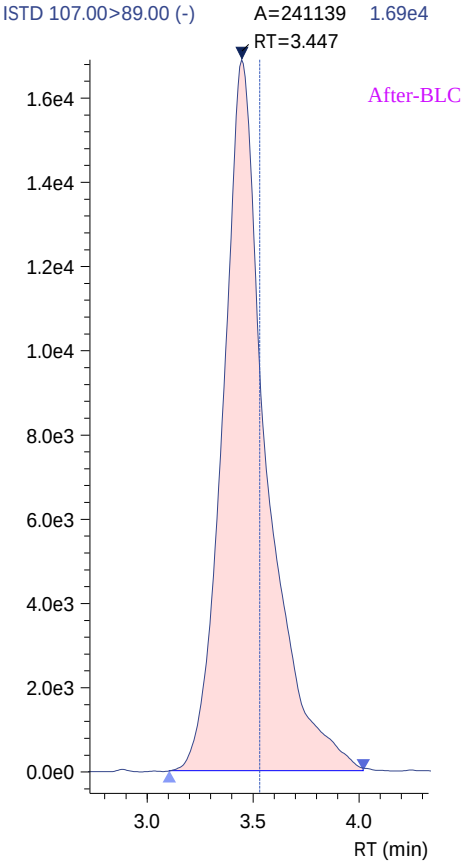
Conc 9.2629
R#1 31.88 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
alsglobal.com

WorkOrder: HS24060487

LHAAP 18 24

Bhate Environmental Associates, Inc.

Marcia Olive
445 Union Blvd Ste 129
Lakewood CO 80228

18-Jul-2024

WorkOrder: HS24060487

ALS Environmental
ALS Group USA, Corp
10450 Stancliff Road, Suite 210
Houston, TX 77099
T : +1 281 530 5656
F : +1 281 530 5887
www.alsglobal.com

Table of Contents

HS24060487 LHAAP 18 24 COVER PAGE
- CoverPage
- HS24060487 LHAAP 18 24 Final
  - CoverLetter
  - Sample Summary
  - CaseNarrative
  - 18CPTMW04SW_060724
  - 18CPTMW04_060724
  - AWD3_060724
  - MW1_060724
  - MW1_060724_a
  - 18ww06_060724
  - 18ww02_060724
  - 18CPTMW23SW_060724
  - 18CPTMW23_060724
  - Trip Blank
  - Weight/Volume Log
  - Dates Report
  - QC
  - Acronyms
  - Certifications
  - SampleReceiptCheckList

Table of Contents (continued)

COC
HS24060487 E2400682 Perchlorate Level II Report
HS24060487-MSSEMI-SW8270SIM
Form 1 - Sample Results
Form 2 - Surrogates
Form 3B - LCS/LCSD
Form 4 - MB Assoc
Form 5 - Tune
Form 6 - ICAL
Form 6I - ICV
Form 7 - CCV
Form 8 - ISTD
Prep Batch
Run Log
Raw Data SV_6 240418
Raw Data SV_6_470076 240620
SAMP-HS24060487-09 16
CCV-14DX-0.08 28
HS24060487-MSVOA-SW8260
Form 1 - Sample Results
Form 2 - Surrogates
Form 3A - MS/MSD
Form 3B - LCS/LCSD
Form 4 - MB Assoc
Form 5 - Tune
Form 6-ICAL
Form 6I - ICV
Form 7 - CCV
Form 8 - ISTD
Run Log
Raw Data VOA7_469269 P240612
Raw Data VOA7_469280 P240612
Raw Data VOA7_469569 P240615
Raw Data VOA7_469580 P240615
Raw Data VOA9_469810 U240618

HS24060487 LHAAP 18 24 COVER PAGE

ALS WO# HS24060487

HS24060487 LHAAP 18 24 Final

ALS WO# HS24060487

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

June 28, 2024

Marcia Olive
Bhate Environmental Associates, Inc.
445 Union Blvd Ste 129
Lakewood, CO 80228

Work Order: **HS24060487**

Laboratory Results for: **LHAAP 18 24**

Dear Marcia Olive,

ALS Environmental received 10 sample(s) on Jun 08, 2024 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: JUMOKE.LAWAL
Luis.Aguilar

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Work Order: HS24060487

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24060487-01	18CPTMW04SW_060724	Water		07-Jun-2024 06:55	08-Jun-2024 08:50	☐
HS24060487-02	18CPTMW04_060724	Water		07-Jun-2024 07:35	08-Jun-2024 08:50	☐
HS24060487-03	AWD3_060724	Water		07-Jun-2024 08:20	08-Jun-2024 08:50	☐
HS24060487-04	MW1_060724	Water		07-Jun-2024 09:10	08-Jun-2024 08:50	☐
HS24060487-05	MW1_060724_a	Water		07-Jun-2024 09:10	08-Jun-2024 08:50	☐
HS24060487-06	18ww06_060724	Water		07-Jun-2024 10:00	08-Jun-2024 08:50	☐
HS24060487-07	18ww02_060724	Water		07-Jun-2024 10:45	08-Jun-2024 08:50	☐
HS24060487-08	18CPTMW23SW_060724	Water		07-Jun-2024 11:35	08-Jun-2024 08:50	☐
HS24060487-09	18CPTMW23_060724	Water		07-Jun-2024 12:20	08-Jun-2024 08:50	☐
HS24060487-10	Trip Blank	Water		07-Jun-2024 00:00	08-Jun-2024 08:50	☐

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc. **CASE NARRATIVE**
Project: LHAAP 18 24
Work Order: HS24060487

Work Order Comments

• The analysis for Perchlorate was subcontracted to ALS High Res Lab Houston, TX. Final report attached.

GCMS Semivolatiles by Method SW8270SIM

Batch ID: 213281

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

GCMS Volatiles by Method SW8260

Batch ID: R469580

Sample ID: 18CPTMW23_060724 (HS24060487-09)

• Surrogates failed outside control limits high. There are no hits associated with these surrogates.

Sample ID: 18CPTMW23SW_060724 (HS24060487-08)

• Surrogates failed outside control limits high. There are no hits associated with these surrogates.

Sample ID: 18ww06_060724 (HS24060487-06)

• Surrogates failed outside control limits high. There are no hits associated with these surrogates.

Sample ID: Trip Blank (HS24060487-10)

• Surrogates failed outside control limits high. There are no hits associated with these surrogates.

Sample ID: HS24060434-01MS

• MS and MSD are for an unrelated sample

Batch ID: R469280

Sample ID: AWD3_060724 (HS24060487-03)

• Lowest possible dilution due to high concentrations of non target analytes.

Sample ID: HS24060214-10MS

• MS and MSD are for an unrelated sample

Batch ID: R469833

Sample ID: VBLKW-240618

• Surrogates failed outside control limits high. Associated samples with the hits biased high.

Sample ID: VLCSW-240618

• Surrogates failed outside control limits high. Associated samples with the hits biased high.

Sample ID: HS24060379-09MS

• MS and MSD are for an unrelated sample

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc. **CASE NARRATIVE**
Project: LHAAP 18 24
Work Order: HS24060487

Metals by Method SW7470A

Batch ID: 213707

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW6020A

Batch ID: 213517

Sample ID: HS24060434-09MS

- MS and MSD are for an unrelated sample

Sample ID: HS24060434-09PDS

- PDS is for an unrelated sample (Sodium)

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 18CPTMW04SW_060724
Collection Date: 07-Jun-2024 06:55

ANALYTICAL REPORT
WorkOrder:HS24060487
Lab ID:HS24060487-01
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:32
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:32
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.50	1.0	ug/L	1	12-Jun-2024 23:32
1,1,2-Trichloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:32
1,1-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:32
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:32
1,1-Dichloropropene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:32
1,2,3-Trichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	12-Jun-2024 23:32
1,2,3-Trichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	12-Jun-2024 23:32
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	12-Jun-2024 23:32
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:32
1,2-Dibromo-3-chloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:32
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:32
1,2-Dichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	12-Jun-2024 23:32
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:32
1,2-Dichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	12-Jun-2024 23:32
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:32
1,3-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	12-Jun-2024 23:32
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:32
1,4-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	12-Jun-2024 23:32
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:32
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	12-Jun-2024 23:32
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:32
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	12-Jun-2024 23:32
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	12-Jun-2024 23:32
4-Isopropyltoluene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:32
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	12-Jun-2024 23:32
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	12-Jun-2024 23:32
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:32
Bromobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	12-Jun-2024 23:32
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:32
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:32
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	12-Jun-2024 23:32
Bromomethane	0.50	U	0.40	0.50	1.0	ug/L	1	12-Jun-2024 23:32
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	12-Jun-2024 23:32
Carbon tetrachloride	0.50	U	0.50	0.50	1.0	ug/L	1	12-Jun-2024 23:32
Chlorobenzene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:32
Chloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:32
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:32

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 18CPTMW04SW_060724
Collection Date: 07-Jun-2024 06:55

ANALYTICAL REPORT
WorkOrder:HS24060487
Lab ID:HS24060487-01
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
Chloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:32
cis-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:32
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:32
Dibromochloromethane	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:32
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:32
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:32
Ethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:32
Hexachlorobutadiene	0.50	U	1.0	0.50	1.0	ug/L	1	12-Jun-2024 23:32
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:32
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	12-Jun-2024 23:32
Methylene chloride	0.50	U	0.40	0.50	2.0	ug/L	1	12-Jun-2024 23:32
n-Butylbenzene	0.50	U	0.40	0.50	1.0	ug/L	1	12-Jun-2024 23:32
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:32
Naphthalene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:32
o-Xylene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:32
sec-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:32
Styrene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:32
tert-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:32
Tetrachloroethene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:32
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:32
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:32
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:32
Trichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:32
Trichlorofluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:32
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:32
Surr: 1,2-Dichloroethane-d4	*113*			**0**	*81-118*	*%REC*	*1*	*12-Jun-2024 23:32*
Surr: 4-Bromofluorobenzene	*112*			**0**	*85-114*	*%REC*	*1*	*12-Jun-2024 23:32*
Surr: Dibromofluoromethane	*114*			**0**	*80-119*	*%REC*	*1*	*12-Jun-2024 23:32*
Surr: Toluene-d8	*112*			**0**	*89-112*	*%REC*	*1*	*12-Jun-2024 23:32*
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 11-Jun-2024		Analyst: MBG
1,4-Dioxane	**0.024**	J	**0.010**	**0.0040**	**0.030**	**ug/L**	1	20-Jun-2024 18:16
Surr: 2-Fluorobiphenyl	*92.0*			**0**	*40-140*	*%REC*	*1*	*20-Jun-2024 18:16*
Surr: 4-Terphenyl-d14	*74.5*			**0**	*40-140*	*%REC*	*1*	*20-Jun-2024 18:16*
Surr: Nitrobenzene-d5	*95.2*			**0**	*40-140*	*%REC*	*1*	*20-Jun-2024 18:16*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 18CPTMW04SW_060724
Collection Date: 07-Jun-2024 06:55

ANALYTICAL REPORT
WorkOrder:HS24060487
Lab ID:HS24060487-01
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 13-Jun-2024		Analyst: MSC
Aluminum	**0.0253**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	19-Jun-2024 13:59
Antimony	**0.000405**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	19-Jun-2024 13:59
Arsenic	**0.00257**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	19-Jun-2024 13:59
Barium	**0.108**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	19-Jun-2024 13:59
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	19-Jun-2024 13:59
Cadmium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	19-Jun-2024 13:59
Calcium	**5.03**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	19-Jun-2024 13:59
Chromium	**0.0215**		**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	19-Jun-2024 13:59
Cobalt	**0.000495**	J	**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	19-Jun-2024 13:59
Copper	0.00250	U	0.00100	0.00250	0.00500	mg/L	1	19-Jun-2024 13:59
Iron	**1.56**		**0.0120**	**0.0500**	**0.200**	**mg/L**	1	19-Jun-2024 13:59
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	19-Jun-2024 13:59
Magnesium	**11.8**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	19-Jun-2024 13:59
Manganese	**0.0642**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	19-Jun-2024 13:59
Nickel	**0.00142**	J	**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	19-Jun-2024 13:59
Potassium	**228**		**1.80**	**5.00**	**20.0**	**mg/L**	100	19-Jun-2024 14:28
Selenium	0.00250	U	0.00110	0.00250	0.00500	mg/L	1	19-Jun-2024 13:59
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	19-Jun-2024 13:59
Sodium	**167**		**0.0140**	**0.0500**	**0.200**	**mg/L**	1	19-Jun-2024 13:59
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	19-Jun-2024 13:59
Vanadium	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	19-Jun-2024 13:59
Zinc	**0.0216**		**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	19-Jun-2024 13:59
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 18-Jun-2024		Analyst: JS
Mercury	0.000000100	U	0.0000300	0.000000100	0.000200	mg/L	1	18-Jun-2024 14:55
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	25-Jun-2024 10:20

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: LHAAP 18 24 WorkOrder:HS24060487
Sample ID: 18CPTMW04_060724 Lab ID:HS24060487-02
Collection Date: 07-Jun-2024 07:35 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:55
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:55
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.50	1.0	ug/L	1	12-Jun-2024 23:55
1,1,2-Trichloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:55
1,1-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:55
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:55
1,1-Dichloropropene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:55
1,2,3-Trichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	12-Jun-2024 23:55
1,2,3-Trichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	12-Jun-2024 23:55
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	12-Jun-2024 23:55
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:55
1,2-Dibromo-3-chloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:55
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:55
1,2-Dichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	12-Jun-2024 23:55
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:55
1,2-Dichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	12-Jun-2024 23:55
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:55
1,3-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	12-Jun-2024 23:55
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:55
1,4-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	12-Jun-2024 23:55
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:55
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	12-Jun-2024 23:55
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:55
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	12-Jun-2024 23:55
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	12-Jun-2024 23:55
4-Isopropyltoluene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:55
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	12-Jun-2024 23:55
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	12-Jun-2024 23:55
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:55
Bromobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	12-Jun-2024 23:55
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:55
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:55
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	12-Jun-2024 23:55
Bromomethane	0.50	U	0.40	0.50	1.0	ug/L	1	12-Jun-2024 23:55
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	12-Jun-2024 23:55
Carbon tetrachloride	0.50	U	0.50	0.50	1.0	ug/L	1	12-Jun-2024 23:55
Chlorobenzene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:55
Chloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:55
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:55

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 18CPTMW04_060724
Collection Date: 07-Jun-2024 07:35

ANALYTICAL REPORT
WorkOrder:HS24060487
Lab ID:HS24060487-02
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
Chloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:55
cis-1,2-Dichloroethene	**7.5**		**0.20**	**0.50**	**1.0**	**ug/L**	1	12-Jun-2024 23:55
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:55
Dibromochloromethane	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:55
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:55
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:55
Ethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:55
Hexachlorobutadiene	0.50	U	1.0	0.50	1.0	ug/L	1	12-Jun-2024 23:55
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:55
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	12-Jun-2024 23:55
Methylene chloride	0.50	U	0.40	0.50	2.0	ug/L	1	12-Jun-2024 23:55
n-Butylbenzene	0.50	U	0.40	0.50	1.0	ug/L	1	12-Jun-2024 23:55
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:55
Naphthalene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:55
o-Xylene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:55
sec-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:55
Styrene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:55
tert-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:55
Tetrachloroethene	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:55
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:55
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:55
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:55
Trichloroethene	**190**		**0.20**	**0.50**	**1.0**	**ug/L**	1	12-Jun-2024 23:55
Trichlorofluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	12-Jun-2024 23:55
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	12-Jun-2024 23:55
Surr: 1,2-Dichloroethane-d4	*116*			**0**	*81-118*	*%REC*	*1*	*12-Jun-2024 23:55*
Surr: 4-Bromofluorobenzene	*112*			**0**	*85-114*	*%REC*	*1*	*12-Jun-2024 23:55*
Surr: Dibromofluoromethane	*116*			**0**	*80-119*	*%REC*	*1*	*12-Jun-2024 23:55*
Surr: Toluene-d8	*112*			**0**	*89-112*	*%REC*	*1*	*12-Jun-2024 23:55*
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 11-Jun-2024		Analyst: MBG
1,4-Dioxane	**0.10**		**0.010**	**0.0040**	**0.030**	**ug/L**	1	20-Jun-2024 18:34
Surr: 2-Fluorobiphenyl	*105*			**0**	*40-140*	*%REC*	*1*	*20-Jun-2024 18:34*
Surr: 4-Terphenyl-d14	*87.8*			**0**	*40-140*	*%REC*	*1*	*20-Jun-2024 18:34*
Surr: Nitrobenzene-d5	*83.5*			**0**	*40-140*	*%REC*	*1*	*20-Jun-2024 18:34*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	25-Jun-2024 10:20

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: AWD3_060724
Collection Date: 07-Jun-2024 08:20

ANALYTICAL REPORT
WorkOrder:HS24060487
Lab ID:HS24060487-03
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	5.0	U	3.0	5.0	10	ug/L	10	13-Jun-2024 00:20
1,1,1-Trichloroethane	5.0	U	2.0	5.0	10	ug/L	10	13-Jun-2024 00:20
1,1,2,2-Tetrachloroethane	5.0	U	5.0	5.0	10	ug/L	10	13-Jun-2024 00:20
1,1,2-Trichloroethane	5.0	U	3.0	5.0	10	ug/L	10	13-Jun-2024 00:20
1,1-Dichloroethane	5.0	U	2.0	5.0	10	ug/L	10	13-Jun-2024 00:20
1,1-Dichloroethene	5.0	U	2.0	5.0	10	ug/L	10	13-Jun-2024 00:20
1,1-Dichloropropene	5.0	U	3.0	5.0	10	ug/L	10	13-Jun-2024 00:20
1,2,3-Trichlorobenzene	5.0	U	4.0	5.0	10	ug/L	10	13-Jun-2024 00:20
1,2,3-Trichloropropane	5.0	U	5.0	5.0	10	ug/L	10	13-Jun-2024 00:20
1,2,4-Trichlorobenzene	5.0	U	5.0	5.0	10	ug/L	10	13-Jun-2024 00:20
1,2,4-Trimethylbenzene	5.0	U	3.0	5.0	10	ug/L	10	13-Jun-2024 00:20
1,2-Dibromo-3-chloropropane	5.0	U	2.0	5.0	10	ug/L	10	13-Jun-2024 00:20
1,2-Dibromoethane	5.0	U	2.0	5.0	10	ug/L	10	13-Jun-2024 00:20
1,2-Dichlorobenzene	5.0	U	5.0	5.0	10	ug/L	10	13-Jun-2024 00:20
1,2-Dichloroethane	5.0	U	2.0	5.0	10	ug/L	10	13-Jun-2024 00:20
1,2-Dichloropropane	5.0	U	5.0	5.0	10	ug/L	10	13-Jun-2024 00:20
1,3,5-Trimethylbenzene	5.0	U	3.0	5.0	10	ug/L	10	13-Jun-2024 00:20
1,3-Dichlorobenzene	5.0	U	4.0	5.0	10	ug/L	10	13-Jun-2024 00:20
1,3-Dichloropropane	5.0	U	3.0	5.0	10	ug/L	10	13-Jun-2024 00:20
1,4-Dichlorobenzene	5.0	U	4.0	5.0	10	ug/L	10	13-Jun-2024 00:20
2,2-Dichloropropane	5.0	U	2.0	5.0	10	ug/L	10	13-Jun-2024 00:20
2-Butanone	10	U	5.0	10	20	ug/L	10	13-Jun-2024 00:20
2-Chlorotoluene	5.0	U	3.0	5.0	10	ug/L	10	13-Jun-2024 00:20
2-Hexanone	10	U	10	10	20	ug/L	10	13-Jun-2024 00:20
4-Chlorotoluene	5.0	U	4.0	5.0	10	ug/L	10	13-Jun-2024 00:20
4-Isopropyltoluene	5.0	U	3.0	5.0	10	ug/L	10	13-Jun-2024 00:20
4-Methyl-2-pentanone	10	U	7.0	10	20	ug/L	10	13-Jun-2024 00:20
Acetone	10	U	4.0	10	20	ug/L	10	13-Jun-2024 00:20
Benzene	5.0	U	2.0	5.0	10	ug/L	10	13-Jun-2024 00:20
Bromobenzene	5.0	U	4.0	5.0	10	ug/L	10	13-Jun-2024 00:20
Bromochloromethane	5.0	U	2.0	5.0	10	ug/L	10	13-Jun-2024 00:20
Bromodichloromethane	5.0	U	2.0	5.0	10	ug/L	10	13-Jun-2024 00:20
Bromoform	5.0	U	4.0	5.0	10	ug/L	10	13-Jun-2024 00:20
Bromomethane	5.0	U	4.0	5.0	10	ug/L	10	13-Jun-2024 00:20
Carbon disulfide	10	U	6.0	10	20	ug/L	10	13-Jun-2024 00:20
Carbon tetrachloride	5.0	U	5.0	5.0	10	ug/L	10	13-Jun-2024 00:20
Chlorobenzene	5.0	U	3.0	5.0	10	ug/L	10	13-Jun-2024 00:20
Chloroethane	5.0	U	3.0	5.0	10	ug/L	10	13-Jun-2024 00:20
Chloroform	5.0	U	2.0	5.0	10	ug/L	10	13-Jun-2024 00:20

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: AWD3_060724
Collection Date: 07-Jun-2024 08:20

ANALYTICAL REPORT
WorkOrder:HS24060487
Lab ID:HS24060487-03
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
Chloromethane	5.0	U	2.0	5.0	10	ug/L	10	13-Jun-2024 00:20
cis-1,2-Dichloroethene	5.0	U	2.0	5.0	10	ug/L	10	13-Jun-2024 00:20
cis-1,3-Dichloropropene	5.0	U	2.0	5.0	10	ug/L	10	13-Jun-2024 00:20
Dibromochloromethane	5.0	U	3.0	5.0	10	ug/L	10	13-Jun-2024 00:20
Dibromomethane	5.0	U	2.0	5.0	10	ug/L	10	13-Jun-2024 00:20
Dichlorodifluoromethane	5.0	U	3.0	5.0	10	ug/L	10	13-Jun-2024 00:20
Ethylbenzene	5.0	U	3.0	5.0	10	ug/L	10	13-Jun-2024 00:20
Hexachlorobutadiene	5.0	U	10	5.0	10	ug/L	10	13-Jun-2024 00:20
Isopropylbenzene	5.0	U	3.0	5.0	10	ug/L	10	13-Jun-2024 00:20
m,p-Xylene	10	U	5.0	10	20	ug/L	10	13-Jun-2024 00:20
Methylene chloride	5.0	U	4.0	5.0	20	ug/L	10	13-Jun-2024 00:20
n-Butylbenzene	5.0	U	4.0	5.0	10	ug/L	10	13-Jun-2024 00:20
n-Propylbenzene	5.0	U	3.0	5.0	10	ug/L	10	13-Jun-2024 00:20
Naphthalene	5.0	U	3.0	5.0	10	ug/L	10	13-Jun-2024 00:20
o-Xylene	5.0	U	3.0	5.0	10	ug/L	10	13-Jun-2024 00:20
sec-Butylbenzene	5.0	U	3.0	5.0	10	ug/L	10	13-Jun-2024 00:20
Styrene	5.0	U	3.0	5.0	10	ug/L	10	13-Jun-2024 00:20
tert-Butylbenzene	5.0	U	3.0	5.0	10	ug/L	10	13-Jun-2024 00:20
Tetrachloroethene	5.0	U	3.0	5.0	10	ug/L	10	13-Jun-2024 00:20
Toluene	5.0	U	2.0	5.0	10	ug/L	10	13-Jun-2024 00:20
trans-1,2-Dichloroethene	5.0	U	2.0	5.0	10	ug/L	10	13-Jun-2024 00:20
trans-1,3-Dichloropropene	5.0	U	2.0	5.0	10	ug/L	10	13-Jun-2024 00:20
Trichloroethene	**760**		**2.0**	**5.0**	**10**	**ug/L**	10	13-Jun-2024 00:20
Trichlorofluoromethane	5.0	U	3.0	5.0	10	ug/L	10	13-Jun-2024 00:20
Vinyl chloride	5.0	U	2.0	5.0	10	ug/L	10	13-Jun-2024 00:20
Surr: 1,2-Dichloroethane-d4	*115*			**0**	*81-118*	*%REC*	*10*	*13-Jun-2024 00:20*
Surr: 4-Bromofluorobenzene	*110*			**0**	*85-114*	*%REC*	*10*	*13-Jun-2024 00:20*
Surr: Dibromofluoromethane	*118*			**0**	*80-119*	*%REC*	*10*	*13-Jun-2024 00:20*
Surr: Toluene-d8	*110*			**0**	*89-112*	*%REC*	*10*	*13-Jun-2024 00:20*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: AWD3_060724
Collection Date: 07-Jun-2024 08:20

ANALYTICAL REPORT
WorkOrder:HS24060487
Lab ID:HS24060487-03
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 13-Jun-2024		Analyst: MSC
Aluminum	**0.0603**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	19-Jun-2024 14:01
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	19-Jun-2024 14:01
Arsenic	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	19-Jun-2024 14:01
Barium	**0.0418**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	19-Jun-2024 14:01
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	19-Jun-2024 14:01
Cadmium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	19-Jun-2024 14:01
Calcium	**0.810**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	19-Jun-2024 14:01
Chromium	**0.0177**		**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	19-Jun-2024 14:01
Cobalt	**0.000528**	J	**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	19-Jun-2024 14:01
Copper	**0.00139**	J	**0.00100**	**0.00250**	**0.00500**	**mg/L**	1	19-Jun-2024 14:01
Iron	**0.157**	J	**0.0120**	**0.0500**	**0.200**	**mg/L**	1	19-Jun-2024 14:01
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	19-Jun-2024 14:01
Magnesium	**0.479**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	19-Jun-2024 14:01
Manganese	**0.00827**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	19-Jun-2024 14:01
Nickel	**0.00951**		**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	19-Jun-2024 14:01
Potassium	**0.634**		**0.0180**	**0.0500**	**0.200**	**mg/L**	1	19-Jun-2024 14:01
Selenium	**0.00602**		**0.00110**	**0.00250**	**0.00500**	**mg/L**	1	19-Jun-2024 14:01
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	19-Jun-2024 14:01
Sodium	**27.0**		**0.0140**	**0.0500**	**0.200**	**mg/L**	1	19-Jun-2024 14:01
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	19-Jun-2024 14:01
Vanadium	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	19-Jun-2024 14:01
Zinc	**0.00328**	J	**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	19-Jun-2024 14:01
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 18-Jun-2024		Analyst: JS
Mercury	0.000000100	U	0.0000300	0.000000100	0.000200	mg/L	1	18-Jun-2024 14:57
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	25-Jun-2024 10:20

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: MW1_060724
Collection Date: 07-Jun-2024 09:10

ANALYTICAL REPORT
WorkOrder:HS24060487
Lab ID:HS24060487-04
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	50	U	30	50	100	ug/L	100	16-Jun-2024 04:08
1,1,1-Trichloroethane	50	U	20	50	100	ug/L	100	16-Jun-2024 04:08
1,1,2,2-Tetrachloroethane	50	U	50	50	100	ug/L	100	16-Jun-2024 04:08
1,1,2-Trichloroethane	50	U	30	50	100	ug/L	100	16-Jun-2024 04:08
1,1-Dichloroethane	50	U	20	50	100	ug/L	100	16-Jun-2024 04:08
1,1-Dichloroethene	50	U	20	50	100	ug/L	100	16-Jun-2024 04:08
1,1-Dichloropropene	50	U	30	50	100	ug/L	100	16-Jun-2024 04:08
1,2,3-Trichlorobenzene	50	U	40	50	100	ug/L	100	16-Jun-2024 04:08
1,2,3-Trichloropropane	50	U	50	50	100	ug/L	100	16-Jun-2024 04:08
1,2,4-Trichlorobenzene	50	U	50	50	100	ug/L	100	16-Jun-2024 04:08
1,2,4-Trimethylbenzene	50	U	30	50	100	ug/L	100	16-Jun-2024 04:08
1,2-Dibromo-3-chloropropane	50	U	20	50	100	ug/L	100	16-Jun-2024 04:08
1,2-Dibromoethane	50	U	20	50	100	ug/L	100	16-Jun-2024 04:08
1,2-Dichlorobenzene	50	U	50	50	100	ug/L	100	16-Jun-2024 04:08
1,2-Dichloroethane	**710**		**20**	**50**	**100**	**ug/L**	100	16-Jun-2024 04:08
1,2-Dichloropropane	50	U	50	50	100	ug/L	100	16-Jun-2024 04:08
1,3,5-Trimethylbenzene	50	U	30	50	100	ug/L	100	16-Jun-2024 04:08
1,3-Dichlorobenzene	50	U	40	50	100	ug/L	100	16-Jun-2024 04:08
1,3-Dichloropropane	50	U	30	50	100	ug/L	100	16-Jun-2024 04:08
1,4-Dichlorobenzene	50	U	40	50	100	ug/L	100	16-Jun-2024 04:08
2,2-Dichloropropane	50	U	20	50	100	ug/L	100	16-Jun-2024 04:08
2-Butanone	100	U	50	100	200	ug/L	100	16-Jun-2024 04:08
2-Chlorotoluene	50	U	30	50	100	ug/L	100	16-Jun-2024 04:08
2-Hexanone	100	U	100	100	200	ug/L	100	16-Jun-2024 04:08
4-Chlorotoluene	50	U	40	50	100	ug/L	100	16-Jun-2024 04:08
4-Isopropyltoluene	50	U	30	50	100	ug/L	100	16-Jun-2024 04:08
4-Methyl-2-pentanone	100	U	70	100	200	ug/L	100	16-Jun-2024 04:08
Acetone	100	U	40	100	200	ug/L	100	16-Jun-2024 04:08
Benzene	50	U	20	50	100	ug/L	100	16-Jun-2024 04:08
Bromobenzene	50	U	40	50	100	ug/L	100	16-Jun-2024 04:08
Bromochloromethane	50	U	20	50	100	ug/L	100	16-Jun-2024 04:08
Bromodichloromethane	50	U	20	50	100	ug/L	100	16-Jun-2024 04:08
Bromoform	50	U	40	50	100	ug/L	100	16-Jun-2024 04:08
Bromomethane	50	U	40	50	100	ug/L	100	16-Jun-2024 04:08
Carbon disulfide	100	U	60	100	200	ug/L	100	16-Jun-2024 04:08
Carbon tetrachloride	50	U	50	50	100	ug/L	100	16-Jun-2024 04:08
Chlorobenzene	50	U	30	50	100	ug/L	100	16-Jun-2024 04:08
Chloroethane	50	U	30	50	100	ug/L	100	16-Jun-2024 04:08
Chloroform	50	U	20	50	100	ug/L	100	16-Jun-2024 04:08

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: MW1_060724
Collection Date: 07-Jun-2024 09:10

ANALYTICAL REPORT
WorkOrder:HS24060487
Lab ID:HS24060487-04
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
Chloromethane	50	U	20	50	100	ug/L	100	16-Jun-2024 04:08
cis-1,2-Dichloroethene	**12,000**		**20**	**50**	**100**	**ug/L**	100	16-Jun-2024 04:08
cis-1,3-Dichloropropene	50	U	20	50	100	ug/L	100	16-Jun-2024 04:08
Dibromochloromethane	50	U	30	50	100	ug/L	100	16-Jun-2024 04:08
Dibromomethane	50	U	20	50	100	ug/L	100	16-Jun-2024 04:08
Dichlorodifluoromethane	50	U	30	50	100	ug/L	100	16-Jun-2024 04:08
Ethylbenzene	50	U	30	50	100	ug/L	100	16-Jun-2024 04:08
Hexachlorobutadiene	50	U	100	50	100	ug/L	100	16-Jun-2024 04:08
Isopropylbenzene	50	U	30	50	100	ug/L	100	16-Jun-2024 04:08
m,p-Xylene	100	U	50	100	200	ug/L	100	16-Jun-2024 04:08
Methylene chloride	50	U	40	50	200	ug/L	100	16-Jun-2024 04:08
n-Butylbenzene	50	U	40	50	100	ug/L	100	16-Jun-2024 04:08
n-Propylbenzene	50	U	30	50	100	ug/L	100	16-Jun-2024 04:08
Naphthalene	50	U	30	50	100	ug/L	100	16-Jun-2024 04:08
o-Xylene	50	U	30	50	100	ug/L	100	16-Jun-2024 04:08
sec-Butylbenzene	50	U	30	50	100	ug/L	100	16-Jun-2024 04:08
Styrene	50	U	30	50	100	ug/L	100	16-Jun-2024 04:08
tert-Butylbenzene	50	U	30	50	100	ug/L	100	16-Jun-2024 04:08
Tetrachloroethene	50	U	30	50	100	ug/L	100	16-Jun-2024 04:08
Toluene	50	U	20	50	100	ug/L	100	16-Jun-2024 04:08
trans-1,2-Dichloroethene	50	U	20	50	100	ug/L	100	16-Jun-2024 04:08
trans-1,3-Dichloropropene	50	U	20	50	100	ug/L	100	16-Jun-2024 04:08
Trichloroethene	**8,300**		**20**	**50**	**100**	**ug/L**	100	16-Jun-2024 04:08
Trichlorofluoromethane	50	U	30	50	100	ug/L	100	16-Jun-2024 04:08
Vinyl chloride	50	U	20	50	100	ug/L	100	16-Jun-2024 04:08
Surr: 1,2-Dichloroethane-d4	*118*			**0**	*81-118*	*%REC*	*100*	*16-Jun-2024 04:08*
Surr: 4-Bromofluorobenzene	*106*			**0**	*85-114*	*%REC*	*100*	*16-Jun-2024 04:08*
Surr: Dibromofluoromethane	*119*			**0**	*80-119*	*%REC*	*100*	*16-Jun-2024 04:08*
Surr: Toluene-d8	*110*			**0**	*89-112*	*%REC*	*100*	*16-Jun-2024 04:08*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: MW1_060724
Collection Date: 07-Jun-2024 09:10

ANALYTICAL REPORT
WorkOrder:HS24060487
Lab ID:HS24060487-04
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 13-Jun-2024		Analyst: MSC
Aluminum	**0.00850**	J	**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	19-Jun-2024 14:03
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	19-Jun-2024 14:03
Arsenic	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	19-Jun-2024 14:03
Barium	**0.504**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	19-Jun-2024 14:03
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	19-Jun-2024 14:03
Cadmium	**0.000468**	J	**0.000200**	**0.000500**	**0.00200**	**mg/L**	1	19-Jun-2024 14:03
Calcium	**22.0**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	19-Jun-2024 14:03
Chromium	**0.0778**		**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	19-Jun-2024 14:03
Cobalt	**0.0104**		**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	19-Jun-2024 14:03
Copper	**0.00554**		**0.00100**	**0.00250**	**0.00500**	**mg/L**	1	19-Jun-2024 14:03
Iron	**5.01**		**0.0120**	**0.0500**	**0.200**	**mg/L**	1	19-Jun-2024 14:03
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	19-Jun-2024 14:03
Magnesium	**19.4**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	19-Jun-2024 14:03
Manganese	**0.272**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	19-Jun-2024 14:03
Nickel	**1.46**		**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	19-Jun-2024 14:03
Potassium	**2.07**		**0.0180**	**0.0500**	**0.200**	**mg/L**	1	19-Jun-2024 14:03
Selenium	0.00250	U	0.00110	0.00250	0.00500	mg/L	1	19-Jun-2024 14:03
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	19-Jun-2024 14:03
Sodium	**198**		**1.40**	**5.00**	**20.0**	**mg/L**	100	19-Jun-2024 14:24
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	19-Jun-2024 14:03
Vanadium	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	19-Jun-2024 14:03
Zinc	**0.00515**		**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	19-Jun-2024 14:03
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 18-Jun-2024		Analyst: JS
Mercury	0.000000100	U	0.0000300	0.000000100	0.000200	mg/L	1	18-Jun-2024 14:59
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	25-Jun-2024 10:20

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: MW1_060724_a
Collection Date: 07-Jun-2024 09:10

ANALYTICAL REPORT
WorkOrder:HS24060487
Lab ID:HS24060487-05
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	50	U	30	50	100	ug/L	100	16-Jun-2024 04:30
1,1,1-Trichloroethane	50	U	20	50	100	ug/L	100	16-Jun-2024 04:30
1,1,2,2-Tetrachloroethane	50	U	50	50	100	ug/L	100	16-Jun-2024 04:30
1,1,2-Trichloroethane	50	U	30	50	100	ug/L	100	16-Jun-2024 04:30
1,1-Dichloroethane	50	U	20	50	100	ug/L	100	16-Jun-2024 04:30
1,1-Dichloroethene	50	U	20	50	100	ug/L	100	16-Jun-2024 04:30
1,1-Dichloropropene	50	U	30	50	100	ug/L	100	16-Jun-2024 04:30
1,2,3-Trichlorobenzene	50	U	40	50	100	ug/L	100	16-Jun-2024 04:30
1,2,3-Trichloropropane	50	U	50	50	100	ug/L	100	16-Jun-2024 04:30
1,2,4-Trichlorobenzene	50	U	50	50	100	ug/L	100	16-Jun-2024 04:30
1,2,4-Trimethylbenzene	50	U	30	50	100	ug/L	100	16-Jun-2024 04:30
1,2-Dibromo-3-chloropropane	50	U	20	50	100	ug/L	100	16-Jun-2024 04:30
1,2-Dibromoethane	50	U	20	50	100	ug/L	100	16-Jun-2024 04:30
1,2-Dichlorobenzene	50	U	50	50	100	ug/L	100	16-Jun-2024 04:30
1,2-Dichloroethane	**720**		**20**	**50**	**100**	**ug/L**	100	16-Jun-2024 04:30
1,2-Dichloropropane	50	U	50	50	100	ug/L	100	16-Jun-2024 04:30
1,3,5-Trimethylbenzene	50	U	30	50	100	ug/L	100	16-Jun-2024 04:30
1,3-Dichlorobenzene	50	U	40	50	100	ug/L	100	16-Jun-2024 04:30
1,3-Dichloropropane	50	U	30	50	100	ug/L	100	16-Jun-2024 04:30
1,4-Dichlorobenzene	50	U	40	50	100	ug/L	100	16-Jun-2024 04:30
2,2-Dichloropropane	50	U	20	50	100	ug/L	100	16-Jun-2024 04:30
2-Butanone	100	U	50	100	200	ug/L	100	16-Jun-2024 04:30
2-Chlorotoluene	50	U	30	50	100	ug/L	100	16-Jun-2024 04:30
2-Hexanone	100	U	100	100	200	ug/L	100	16-Jun-2024 04:30
4-Chlorotoluene	50	U	40	50	100	ug/L	100	16-Jun-2024 04:30
4-Isopropyltoluene	50	U	30	50	100	ug/L	100	16-Jun-2024 04:30
4-Methyl-2-pentanone	100	U	70	100	200	ug/L	100	16-Jun-2024 04:30
Acetone	100	U	40	100	200	ug/L	100	16-Jun-2024 04:30
Benzene	50	U	20	50	100	ug/L	100	16-Jun-2024 04:30
Bromobenzene	50	U	40	50	100	ug/L	100	16-Jun-2024 04:30
Bromochloromethane	50	U	20	50	100	ug/L	100	16-Jun-2024 04:30
Bromodichloromethane	50	U	20	50	100	ug/L	100	16-Jun-2024 04:30
Bromoform	50	U	40	50	100	ug/L	100	16-Jun-2024 04:30
Bromomethane	50	U	40	50	100	ug/L	100	16-Jun-2024 04:30
Carbon disulfide	100	U	60	100	200	ug/L	100	16-Jun-2024 04:30
Carbon tetrachloride	50	U	50	50	100	ug/L	100	16-Jun-2024 04:30
Chlorobenzene	50	U	30	50	100	ug/L	100	16-Jun-2024 04:30
Chloroethane	50	U	30	50	100	ug/L	100	16-Jun-2024 04:30
Chloroform	50	U	20	50	100	ug/L	100	16-Jun-2024 04:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: MW1_060724_a
Collection Date: 07-Jun-2024 09:10

ANALYTICAL REPORT
WorkOrder:HS24060487
Lab ID:HS24060487-05
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
Chloromethane	50	U	20	50	100	ug/L	100	16-Jun-2024 04:30
cis-1,2-Dichloroethene	**13,000**		**20**	**50**	**100**	**ug/L**	100	16-Jun-2024 04:30
cis-1,3-Dichloropropene	50	U	20	50	100	ug/L	100	16-Jun-2024 04:30
Dibromochloromethane	50	U	30	50	100	ug/L	100	16-Jun-2024 04:30
Dibromomethane	50	U	20	50	100	ug/L	100	16-Jun-2024 04:30
Dichlorodifluoromethane	50	U	30	50	100	ug/L	100	16-Jun-2024 04:30
Ethylbenzene	50	U	30	50	100	ug/L	100	16-Jun-2024 04:30
Hexachlorobutadiene	50	U	100	50	100	ug/L	100	16-Jun-2024 04:30
Isopropylbenzene	50	U	30	50	100	ug/L	100	16-Jun-2024 04:30
m,p-Xylene	100	U	50	100	200	ug/L	100	16-Jun-2024 04:30
Methylene chloride	50	U	40	50	200	ug/L	100	16-Jun-2024 04:30
n-Butylbenzene	50	U	40	50	100	ug/L	100	16-Jun-2024 04:30
n-Propylbenzene	50	U	30	50	100	ug/L	100	16-Jun-2024 04:30
Naphthalene	50	U	30	50	100	ug/L	100	16-Jun-2024 04:30
o-Xylene	50	U	30	50	100	ug/L	100	16-Jun-2024 04:30
sec-Butylbenzene	50	U	30	50	100	ug/L	100	16-Jun-2024 04:30
Styrene	50	U	30	50	100	ug/L	100	16-Jun-2024 04:30
tert-Butylbenzene	50	U	30	50	100	ug/L	100	16-Jun-2024 04:30
Tetrachloroethene	50	U	30	50	100	ug/L	100	16-Jun-2024 04:30
Toluene	50	U	20	50	100	ug/L	100	16-Jun-2024 04:30
trans-1,2-Dichloroethene	50	U	20	50	100	ug/L	100	16-Jun-2024 04:30
trans-1,3-Dichloropropene	50	U	20	50	100	ug/L	100	16-Jun-2024 04:30
Trichloroethene	**8,500**		**20**	**50**	**100**	**ug/L**	100	16-Jun-2024 04:30
Trichlorofluoromethane	50	U	30	50	100	ug/L	100	16-Jun-2024 04:30
Vinyl chloride	50	U	20	50	100	ug/L	100	16-Jun-2024 04:30
Surr: 1,2-Dichloroethane-d4	*117*			**0**	*81-118*	*%REC*	*100*	*16-Jun-2024 04:30*
Surr: 4-Bromofluorobenzene	*108*			**0**	*85-114*	*%REC*	*100*	*16-Jun-2024 04:30*
Surr: Dibromofluoromethane	*118*			**0**	*80-119*	*%REC*	*100*	*16-Jun-2024 04:30*
Surr: Toluene-d8	*111*			**0**	*89-112*	*%REC*	*100*	*16-Jun-2024 04:30*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: MW1_060724_a
Collection Date: 07-Jun-2024 09:10

ANALYTICAL REPORT
WorkOrder:HS24060487
Lab ID:HS24060487-05
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 13-Jun-2024		Analyst: MSC
Aluminum	**0.00995**	J	**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	19-Jun-2024 14:05
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	19-Jun-2024 14:05
Arsenic	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	19-Jun-2024 14:05
Barium	**0.474**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	19-Jun-2024 14:05
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	19-Jun-2024 14:05
Cadmium	**0.000450**	J	**0.000200**	**0.000500**	**0.00200**	**mg/L**	1	19-Jun-2024 14:05
Calcium	**20.7**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	19-Jun-2024 14:05
Chromium	**0.0712**		**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	19-Jun-2024 14:05
Cobalt	**0.00986**		**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	19-Jun-2024 14:05
Copper	**0.00489**	J	**0.00100**	**0.00250**	**0.00500**	**mg/L**	1	19-Jun-2024 14:05
Iron	**4.69**		**0.0120**	**0.0500**	**0.200**	**mg/L**	1	19-Jun-2024 14:05
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	19-Jun-2024 14:05
Magnesium	**18.3**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	19-Jun-2024 14:05
Manganese	**0.260**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	19-Jun-2024 14:05
Nickel	**1.38**		**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	19-Jun-2024 14:05
Potassium	**1.92**		**0.0180**	**0.0500**	**0.200**	**mg/L**	1	19-Jun-2024 14:05
Selenium	0.00250	U	0.00110	0.00250	0.00500	mg/L	1	19-Jun-2024 14:05
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	19-Jun-2024 14:05
Sodium	**182**		**1.40**	**5.00**	**20.0**	**mg/L**	100	19-Jun-2024 14:26
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	19-Jun-2024 14:05
Vanadium	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	19-Jun-2024 14:05
Zinc	**0.00343**	J	**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	19-Jun-2024 14:05
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 18-Jun-2024		Analyst: JS
Mercury	0.000000100	U	0.0000300	0.000000100	0.000200	mg/L	1	18-Jun-2024 15:00
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	25-Jun-2024 10:20

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: LHAAP 18 24 WorkOrder:HS24060487
Sample ID: 18ww06_060724 Lab ID:HS24060487-06
Collection Date: 07-Jun-2024 10:00 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:13
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:13
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.50	1.0	ug/L	1	16-Jun-2024 02:13
1,1,2-Trichloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:13
1,1-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:13
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:13
1,1-Dichloropropene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:13
1,2,3-Trichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 02:13
1,2,3-Trichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	16-Jun-2024 02:13
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	16-Jun-2024 02:13
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:13
1,2-Dibromo-3-chloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:13
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:13
1,2-Dichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	16-Jun-2024 02:13
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:13
1,2-Dichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	16-Jun-2024 02:13
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:13
1,3-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 02:13
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:13
1,4-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 02:13
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:13
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	16-Jun-2024 02:13
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:13
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	16-Jun-2024 02:13
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 02:13
4-Isopropyltoluene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:13
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	16-Jun-2024 02:13
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	16-Jun-2024 02:13
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:13
Bromobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 02:13
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:13
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:13
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 02:13
Bromomethane	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 02:13
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	16-Jun-2024 02:13
Carbon tetrachloride	0.50	U	0.50	0.50	1.0	ug/L	1	16-Jun-2024 02:13
Chlorobenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:13
Chloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:13
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:13

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 18ww06_060724
Collection Date: 07-Jun-2024 10:00

ANALYTICAL REPORT
WorkOrder:HS24060487
Lab ID:HS24060487-06
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
Chloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:13
cis-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:13
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:13
Dibromochloromethane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:13
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:13
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:13
Ethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:13
Hexachlorobutadiene	0.50	U	1.0	0.50	1.0	ug/L	1	16-Jun-2024 02:13
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:13
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	16-Jun-2024 02:13
Methylene chloride	0.50	U	0.40	0.50	2.0	ug/L	1	16-Jun-2024 02:13
n-Butylbenzene	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 02:13
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:13
Naphthalene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:13
o-Xylene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:13
sec-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:13
Styrene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:13
tert-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:13
Tetrachloroethene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:13
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:13
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:13
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:13
Trichloroethene	**0.88**	J	**0.20**	**0.50**	**1.0**	**ug/L**	1	16-Jun-2024 02:13
Trichlorofluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:13
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:13
Surr: 1,2-Dichloroethane-d4	*116*			**0**	*81-118*	*%REC*	*1*	*16-Jun-2024 02:13*
Surr: 4-Bromofluorobenzene	*108*			**0**	*85-114*	*%REC*	*1*	*16-Jun-2024 02:13*
Surr: Dibromofluoromethane	*121*	*S*		**0**	*80-119*	*%REC*	*1*	*16-Jun-2024 02:13*
Surr: Toluene-d8	*116*	*S*		**0**	*89-112*	*%REC*	*1*	*16-Jun-2024 02:13*
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 11-Jun-2024		Analyst: MBG
1,4-Dioxane	**0.083**		**0.010**	**0.0040**	**0.030**	**ug/L**	1	20-Jun-2024 18:51
Surr: 2-Fluorobiphenyl	*84.9*			**0**	*40-140*	*%REC*	*1*	*20-Jun-2024 18:51*
Surr: 4-Terphenyl-d14	*77.4*			**0**	*40-140*	*%REC*	*1*	*20-Jun-2024 18:51*
Surr: Nitrobenzene-d5	*73.4*			**0**	*40-140*	*%REC*	*1*	*20-Jun-2024 18:51*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	25-Jun-2024 10:20

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 18ww02_060724
Collection Date: 07-Jun-2024 10:45

ANALYTICAL REPORT
WorkOrder:HS24060487
Lab ID:HS24060487-07
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:36
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:36
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.50	1.0	ug/L	1	16-Jun-2024 02:36
1,1,2-Trichloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:36
1,1-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:36
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:36
1,1-Dichloropropene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:36
1,2,3-Trichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 02:36
1,2,3-Trichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	16-Jun-2024 02:36
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	16-Jun-2024 02:36
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:36
1,2-Dibromo-3-chloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:36
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:36
1,2-Dichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	16-Jun-2024 02:36
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:36
1,2-Dichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	16-Jun-2024 02:36
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:36
1,3-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 02:36
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:36
1,4-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 02:36
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:36
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	16-Jun-2024 02:36
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:36
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	16-Jun-2024 02:36
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 02:36
4-Isopropyltoluene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:36
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	16-Jun-2024 02:36
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	16-Jun-2024 02:36
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:36
Bromobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 02:36
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:36
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:36
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 02:36
Bromomethane	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 02:36
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	16-Jun-2024 02:36
Carbon tetrachloride	0.50	U	0.50	0.50	1.0	ug/L	1	16-Jun-2024 02:36
Chlorobenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:36
Chloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:36
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:36

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 18ww02_060724
Collection Date: 07-Jun-2024 10:45

ANALYTICAL REPORT
WorkOrder:HS24060487
Lab ID:HS24060487-07
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
Chloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:36
cis-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:36
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:36
Dibromochloromethane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:36
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:36
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:36
Ethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:36
Hexachlorobutadiene	0.50	U	1.0	0.50	1.0	ug/L	1	16-Jun-2024 02:36
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:36
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	16-Jun-2024 02:36
Methylene chloride	0.50	U	0.40	0.50	2.0	ug/L	1	16-Jun-2024 02:36
n-Butylbenzene	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 02:36
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:36
Naphthalene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:36
o-Xylene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:36
sec-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:36
Styrene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:36
tert-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:36
Tetrachloroethene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:36
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:36
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:36
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:36
Trichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:36
Trichlorofluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:36
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:36
Surr: 1,2-Dichloroethane-d4	*116*			**0**	*81-118*	*%REC*	*1*	*16-Jun-2024 02:36*
Surr: 4-Bromofluorobenzene	*107*			**0**	*85-114*	*%REC*	*1*	*16-Jun-2024 02:36*
Surr: Dibromofluoromethane	*116*			**0**	*80-119*	*%REC*	*1*	*16-Jun-2024 02:36*
Surr: Toluene-d8	*111*			**0**	*89-112*	*%REC*	*1*	*16-Jun-2024 02:36*
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 11-Jun-2024		Analyst: MBG
1,4-Dioxane	**0.051**		**0.010**	**0.0040**	**0.030**	**ug/L**	1	20-Jun-2024 19:09
Surr: 2-Fluorobiphenyl	*99.2*			**0**	*40-140*	*%REC*	*1*	*20-Jun-2024 19:09*
Surr: 4-Terphenyl-d14	*88.2*			**0**	*40-140*	*%REC*	*1*	*20-Jun-2024 19:09*
Surr: Nitrobenzene-d5	*83.4*			**0**	*40-140*	*%REC*	*1*	*20-Jun-2024 19:09*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 18ww02_060724
Collection Date: 07-Jun-2024 10:45

ANALYTICAL REPORT
WorkOrder:HS24060487
Lab ID:HS24060487-07
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
METALS BY ICPMS BY SW6020A		**Method:SW6020A**				Prep:SW3010A / 13-Jun-2024		Analyst: MSC
Aluminum	**0.0344**		**0.00180**	**0.00500**	**0.0100**	**mg/L**	1	19-Jun-2024 14:07
Antimony	0.00125	U	0.000400	0.00125	0.00500	mg/L	1	19-Jun-2024 14:07
Arsenic	**0.000404**	J	**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	19-Jun-2024 14:07
Barium	**0.0400**		**0.00190**	**0.00250**	**0.00500**	**mg/L**	1	19-Jun-2024 14:07
Beryllium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	19-Jun-2024 14:07
Cadmium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	19-Jun-2024 14:07
Calcium	**6.59**		**0.0340**	**0.0500**	**0.500**	**mg/L**	1	19-Jun-2024 14:07
Chromium	**0.0128**		**0.000400**	**0.00125**	**0.00500**	**mg/L**	1	19-Jun-2024 14:07
Cobalt	**0.000144**	J	**0.000100**	**0.000500**	**0.00500**	**mg/L**	1	19-Jun-2024 14:07
Copper	**0.00133**	J	**0.00100**	**0.00250**	**0.00500**	**mg/L**	1	19-Jun-2024 14:07
Iron	**0.619**		**0.0120**	**0.0500**	**0.200**	**mg/L**	1	19-Jun-2024 14:07
Lead	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	19-Jun-2024 14:07
Magnesium	**1.13**		**0.0100**	**0.0500**	**0.200**	**mg/L**	1	19-Jun-2024 14:07
Manganese	**0.0813**		**0.000700**	**0.00250**	**0.00500**	**mg/L**	1	19-Jun-2024 14:07
Nickel	**0.0121**		**0.000600**	**0.00125**	**0.00500**	**mg/L**	1	19-Jun-2024 14:07
Potassium	**1.71**		**0.0180**	**0.0500**	**0.200**	**mg/L**	1	19-Jun-2024 14:07
Selenium	0.00250	U	0.00110	0.00250	0.00500	mg/L	1	19-Jun-2024 14:07
Silver	0.000500	U	0.000200	0.000500	0.00500	mg/L	1	19-Jun-2024 14:07
Sodium	**36.9**		**0.0140**	**0.0500**	**0.200**	**mg/L**	1	19-Jun-2024 14:07
Thallium	0.000500	U	0.000200	0.000500	0.00200	mg/L	1	19-Jun-2024 14:07
Vanadium	0.00125	U	0.000600	0.00125	0.00500	mg/L	1	19-Jun-2024 14:07
Zinc	**0.00505**		**0.00200**	**0.00250**	**0.00500**	**mg/L**	1	19-Jun-2024 14:07
MERCURY BY SW7470A		**Method:SW7470A**				Prep:SW7470A / 18-Jun-2024		Analyst: JS
Mercury	0.000000100	U	0.0000300	0.000000100	0.000200	mg/L	1	18-Jun-2024 15:02
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	25-Jun-2024 10:20

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: LHAAP 18 24 WorkOrder:HS24060487
Sample ID: 18CPTMW23SW_060724 Lab ID:HS24060487-08
Collection Date: 07-Jun-2024 11:35 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:59
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:59
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.50	1.0	ug/L	1	16-Jun-2024 02:59
1,1,2-Trichloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:59
1,1-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:59
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:59
1,1-Dichloropropene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:59
1,2,3-Trichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 02:59
1,2,3-Trichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	16-Jun-2024 02:59
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	16-Jun-2024 02:59
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:59
1,2-Dibromo-3-chloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:59
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:59
1,2-Dichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	16-Jun-2024 02:59
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:59
1,2-Dichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	16-Jun-2024 02:59
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:59
1,3-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 02:59
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:59
1,4-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 02:59
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:59
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	16-Jun-2024 02:59
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:59
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	16-Jun-2024 02:59
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 02:59
4-Isopropyltoluene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:59
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	16-Jun-2024 02:59
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	16-Jun-2024 02:59
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:59
Bromobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 02:59
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:59
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:59
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 02:59
Bromomethane	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 02:59
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	16-Jun-2024 02:59
Carbon tetrachloride	0.50	U	0.50	0.50	1.0	ug/L	1	16-Jun-2024 02:59
Chlorobenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:59
Chloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:59
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:59

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 18CPTMW23SW_060724
Collection Date: 07-Jun-2024 11:35

ANALYTICAL REPORT
WorkOrder:HS24060487
Lab ID:HS24060487-08
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
Chloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:59
cis-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:59
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:59
Dibromochloromethane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:59
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:59
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:59
Ethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:59
Hexachlorobutadiene	0.50	U	1.0	0.50	1.0	ug/L	1	16-Jun-2024 02:59
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:59
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	16-Jun-2024 02:59
Methylene chloride	0.50	U	0.40	0.50	2.0	ug/L	1	16-Jun-2024 02:59
n-Butylbenzene	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 02:59
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:59
Naphthalene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:59
o-Xylene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:59
sec-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:59
Styrene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:59
tert-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:59
Tetrachloroethene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:59
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:59
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:59
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:59
Trichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:59
Trichlorofluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 02:59
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 02:59
Surr: 1,2-Dichloroethane-d4	*121*	*S*		**0**	*81-118*	*%REC*	*1*	*16-Jun-2024 02:59*
Surr: 4-Bromofluorobenzene	*113*			**0**	*85-114*	*%REC*	*1*	*16-Jun-2024 02:59*
Surr: Dibromofluoromethane	*121*	*S*		**0**	*80-119*	*%REC*	*1*	*16-Jun-2024 02:59*
Surr: Toluene-d8	*119*	*S*		**0**	*89-112*	*%REC*	*1*	*16-Jun-2024 02:59*
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 11-Jun-2024		Analyst: MBG
1,4-Dioxane	**0.084**		**0.010**	**0.0040**	**0.030**	**ug/L**	1	20-Jun-2024 19:26
Surr: 2-Fluorobiphenyl	*94.6*			**0**	*40-140*	*%REC*	*1*	*20-Jun-2024 19:26*
Surr: 4-Terphenyl-d14	*89.8*			**0**	*40-140*	*%REC*	*1*	*20-Jun-2024 19:26*
Surr: Nitrobenzene-d5	*90.0*			**0**	*40-140*	*%REC*	*1*	*20-Jun-2024 19:26*
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	25-Jun-2024 10:20

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: LHAAP 18 24 WorkOrder:HS24060487
Sample ID: 18CPTMW23_060724 Lab ID:HS24060487-09
Collection Date: 07-Jun-2024 12:20 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	5.0	U	3.0	5.0	10	ug/L	10	16-Jun-2024 03:45
1,1,1-Trichloroethane	5.0	U	2.0	5.0	10	ug/L	10	16-Jun-2024 03:45
1,1,2,2-Tetrachloroethane	5.0	U	5.0	5.0	10	ug/L	10	16-Jun-2024 03:45
1,1,2-Trichloroethane	5.0	U	3.0	5.0	10	ug/L	10	16-Jun-2024 03:45
1,1-Dichloroethane	5.0	U	2.0	5.0	10	ug/L	10	16-Jun-2024 03:45
1,1-Dichloroethene	**46**		**2.0**	**5.0**	**10**	**ug/L**	10	16-Jun-2024 03:45
1,1-Dichloropropene	5.0	U	3.0	5.0	10	ug/L	10	16-Jun-2024 03:45
1,2,3-Trichlorobenzene	5.0	U	4.0	5.0	10	ug/L	10	16-Jun-2024 03:45
1,2,3-Trichloropropane	5.0	U	5.0	5.0	10	ug/L	10	16-Jun-2024 03:45
1,2,4-Trichlorobenzene	5.0	U	5.0	5.0	10	ug/L	10	16-Jun-2024 03:45
1,2,4-Trimethylbenzene	5.0	U	3.0	5.0	10	ug/L	10	16-Jun-2024 03:45
1,2-Dibromo-3-chloropropane	5.0	U	2.0	5.0	10	ug/L	10	16-Jun-2024 03:45
1,2-Dibromoethane	5.0	U	2.0	5.0	10	ug/L	10	16-Jun-2024 03:45
1,2-Dichlorobenzene	5.0	U	5.0	5.0	10	ug/L	10	16-Jun-2024 03:45
1,2-Dichloroethane	**1,200**		**2.0**	**5.0**	**10**	**ug/L**	10	16-Jun-2024 03:45
1,2-Dichloropropane	5.0	U	5.0	5.0	10	ug/L	10	16-Jun-2024 03:45
1,3,5-Trimethylbenzene	5.0	U	3.0	5.0	10	ug/L	10	16-Jun-2024 03:45
1,3-Dichlorobenzene	5.0	U	4.0	5.0	10	ug/L	10	16-Jun-2024 03:45
1,3-Dichloropropane	5.0	U	3.0	5.0	10	ug/L	10	16-Jun-2024 03:45
1,4-Dichlorobenzene	5.0	U	4.0	5.0	10	ug/L	10	16-Jun-2024 03:45
2,2-Dichloropropane	5.0	U	2.0	5.0	10	ug/L	10	16-Jun-2024 03:45
2-Butanone	10	U	5.0	10	20	ug/L	10	16-Jun-2024 03:45
2-Chlorotoluene	5.0	U	3.0	5.0	10	ug/L	10	16-Jun-2024 03:45
2-Hexanone	10	U	10	10	20	ug/L	10	16-Jun-2024 03:45
4-Chlorotoluene	5.0	U	4.0	5.0	10	ug/L	10	16-Jun-2024 03:45
4-Isopropyltoluene	5.0	U	3.0	5.0	10	ug/L	10	16-Jun-2024 03:45
4-Methyl-2-pentanone	10	U	7.0	10	20	ug/L	10	16-Jun-2024 03:45
Acetone	10	U	4.0	10	20	ug/L	10	16-Jun-2024 03:45
Benzene	**5.0**	J	**2.0**	**5.0**	**10**	**ug/L**	10	16-Jun-2024 03:45
Bromobenzene	5.0	U	4.0	5.0	10	ug/L	10	16-Jun-2024 03:45
Bromochloromethane	5.0	U	2.0	5.0	10	ug/L	10	16-Jun-2024 03:45
Bromodichloromethane	5.0	U	2.0	5.0	10	ug/L	10	16-Jun-2024 03:45
Bromoform	5.0	U	4.0	5.0	10	ug/L	10	16-Jun-2024 03:45
Bromomethane	5.0	U	4.0	5.0	10	ug/L	10	16-Jun-2024 03:45
Carbon disulfide	10	U	6.0	10	20	ug/L	10	16-Jun-2024 03:45
Carbon tetrachloride	5.0	U	5.0	5.0	10	ug/L	10	16-Jun-2024 03:45
Chlorobenzene	5.0	U	3.0	5.0	10	ug/L	10	16-Jun-2024 03:45
Chloroethane	5.0	U	3.0	5.0	10	ug/L	10	16-Jun-2024 03:45
Chloroform	**23**		**2.0**	**5.0**	**10**	**ug/L**	10	16-Jun-2024 03:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 18CPTMW23_060724
Collection Date: 07-Jun-2024 12:20

ANALYTICAL REPORT
WorkOrder:HS24060487
Lab ID:HS24060487-09
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
Chloromethane	5.0	U	2.0	5.0	10	ug/L	10	16-Jun-2024 03:45
cis-1,2-Dichloroethene	**1,600**		**2.0**	**5.0**	**10**	**ug/L**	10	16-Jun-2024 03:45
cis-1,3-Dichloropropene	5.0	U	2.0	5.0	10	ug/L	10	16-Jun-2024 03:45
Dibromochloromethane	5.0	U	3.0	5.0	10	ug/L	10	16-Jun-2024 03:45
Dibromomethane	5.0	U	2.0	5.0	10	ug/L	10	16-Jun-2024 03:45
Dichlorodifluoromethane	5.0	U	3.0	5.0	10	ug/L	10	16-Jun-2024 03:45
Ethylbenzene	5.0	U	3.0	5.0	10	ug/L	10	16-Jun-2024 03:45
Hexachlorobutadiene	5.0	U	10	5.0	10	ug/L	10	16-Jun-2024 03:45
Isopropylbenzene	5.0	U	3.0	5.0	10	ug/L	10	16-Jun-2024 03:45
m,p-Xylene	10	U	5.0	10	20	ug/L	10	16-Jun-2024 03:45
Methylene chloride	5.0	U	4.0	5.0	20	ug/L	10	16-Jun-2024 03:45
n-Butylbenzene	5.0	U	4.0	5.0	10	ug/L	10	16-Jun-2024 03:45
n-Propylbenzene	5.0	U	3.0	5.0	10	ug/L	10	16-Jun-2024 03:45
Naphthalene	5.0	U	3.0	5.0	10	ug/L	10	16-Jun-2024 03:45
o-Xylene	5.0	U	3.0	5.0	10	ug/L	10	16-Jun-2024 03:45
sec-Butylbenzene	5.0	U	3.0	5.0	10	ug/L	10	16-Jun-2024 03:45
Styrene	5.0	U	3.0	5.0	10	ug/L	10	16-Jun-2024 03:45
tert-Butylbenzene	5.0	U	3.0	5.0	10	ug/L	10	16-Jun-2024 03:45
Tetrachloroethene	5.0	U	3.0	5.0	10	ug/L	10	16-Jun-2024 03:45
Toluene	5.0	U	2.0	5.0	10	ug/L	10	16-Jun-2024 03:45
trans-1,2-Dichloroethene	**21**		**2.0**	**5.0**	**10**	**ug/L**	10	16-Jun-2024 03:45
trans-1,3-Dichloropropene	5.0	U	2.0	5.0	10	ug/L	10	16-Jun-2024 03:45
Trichloroethene	**1,200**		**100**	**500**	**500**	**ug/L**	500	18-Jun-2024 23:25
Trichlorofluoromethane	5.0	U	3.0	5.0	10	ug/L	10	16-Jun-2024 03:45
Vinyl chloride	**30**		**2.0**	**5.0**	**10**	**ug/L**	10	16-Jun-2024 03:45
Surr: 1,2-Dichloroethane-d4	*111*			**0**	*81-118*	*%REC*	*10*	*16-Jun-2024 03:45*
Surr: 1,2-Dichloroethane-d4	*118*			**0**	*81-118*	*%REC*	*500*	*18-Jun-2024 23:25*
Surr: 4-Bromofluorobenzene	*111*			**0**	*85-114*	*%REC*	*10*	*16-Jun-2024 03:45*
Surr: 4-Bromofluorobenzene	*119*	*S*		**0**	*85-114*	*%REC*	*500*	*18-Jun-2024 23:25*
Surr: Dibromofluoromethane	*117*			**0**	*80-119*	*%REC*	*10*	*16-Jun-2024 03:45*
Surr: Dibromofluoromethane	*116*			**0**	*80-119*	*%REC*	*500*	*18-Jun-2024 23:25*
Surr: Toluene-d8	*117*	*S*		**0**	*89-112*	*%REC*	*10*	*16-Jun-2024 03:45*
Surr: Toluene-d8	*123*	*S*		**0**	*89-112*	*%REC*	*500*	*18-Jun-2024 23:25*
SEMIVOLATILES SIM		**Method:SW8270SIM**				Prep:SW3510 / 11-Jun-2024		Analyst: MBG
1,4-Dioxane	**1.3**		**0.10**	**0.040**	**0.30**	**ug/L**	10	21-Jun-2024 16:41
Surr: 2-Fluorobiphenyl	*72.8*			**0**	*40-140*	*%REC*	*10*	*21-Jun-2024 16:41*
Surr: 4-Terphenyl-d14	*66.8*			**0**	*40-140*	*%REC*	*10*	*21-Jun-2024 16:41*
Surr: Nitrobenzene-d5	*83.5*			**0**	*40-140*	*%REC*	*10*	*21-Jun-2024 16:41*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: 18CPTMW23_060724
Collection Date: 07-Jun-2024 12:20

ANALYTICAL REPORT
WorkOrder:HS24060487
Lab ID:HS24060487-09
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)		**Method:NA**						Analyst: SUB
Subcontract Analysis	See Attached		0	0		NA	1	25-Jun-2024 10:20

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: Trip Blank
Collection Date: 07-Jun-2024 00:00

ANALYTICAL REPORT
WorkOrder:HS24060487
Lab ID:HS24060487-10
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 03:22
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 03:22
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.50	1.0	ug/L	1	16-Jun-2024 03:22
1,1,2-Trichloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 03:22
1,1-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 03:22
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 03:22
1,1-Dichloropropene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 03:22
1,2,3-Trichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 03:22
1,2,3-Trichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	16-Jun-2024 03:22
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	16-Jun-2024 03:22
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 03:22
1,2-Dibromo-3-chloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 03:22
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 03:22
1,2-Dichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	16-Jun-2024 03:22
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 03:22
1,2-Dichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	16-Jun-2024 03:22
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 03:22
1,3-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 03:22
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 03:22
1,4-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 03:22
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 03:22
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	16-Jun-2024 03:22
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 03:22
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	16-Jun-2024 03:22
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 03:22
4-Isopropyltoluene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 03:22
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	16-Jun-2024 03:22
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	16-Jun-2024 03:22
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 03:22
Bromobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 03:22
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 03:22
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 03:22
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 03:22
Bromomethane	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 03:22
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	16-Jun-2024 03:22
Carbon tetrachloride	0.50	U	0.50	0.50	1.0	ug/L	1	16-Jun-2024 03:22
Chlorobenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 03:22
Chloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 03:22
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 03:22

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
Sample ID: Trip Blank
Collection Date: 07-Jun-2024 00:00

ANALYTICAL REPORT
WorkOrder:HS24060487
Lab ID:HS24060487-10
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
Chloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 03:22
cis-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 03:22
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 03:22
Dibromochloromethane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 03:22
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 03:22
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 03:22
Ethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 03:22
Hexachlorobutadiene	0.50	U	1.0	0.50	1.0	ug/L	1	16-Jun-2024 03:22
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 03:22
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	16-Jun-2024 03:22
Methylene chloride	0.50	U	0.40	0.50	2.0	ug/L	1	16-Jun-2024 03:22
n-Butylbenzene	0.50	U	0.40	0.50	1.0	ug/L	1	16-Jun-2024 03:22
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 03:22
Naphthalene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 03:22
o-Xylene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 03:22
sec-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 03:22
Styrene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 03:22
tert-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 03:22
Tetrachloroethene	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 03:22
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 03:22
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 03:22
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 03:22
Trichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 03:22
Trichlorofluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	16-Jun-2024 03:22
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	16-Jun-2024 03:22
Surr: 1,2-Dichloroethane-d4	*117*			**0**	*81-118*	*%REC*	*1*	*16-Jun-2024 03:22*
Surr: 4-Bromofluorobenzene	*104*			**0**	*85-114*	*%REC*	*1*	*16-Jun-2024 03:22*
Surr: Dibromofluoromethane	*119*	*S*		**0**	*80-119*	*%REC*	*1*	*16-Jun-2024 03:22*
Surr: Toluene-d8	*110*			**0**	*89-112*	*%REC*	*1*	*16-Jun-2024 03:22*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Weight / Prep Log

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060487

Batch ID: 213281 **Start Date:** 11 Jun 2024 07:00 **End Date:** 11 Jun 2024 07:00
Method: SV AQ SEP FUN EXTRACT-LOWLEV - 3510C **Prep Code:** 3510_B_SIM

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24060487-01		1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS24060487-02		1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS24060487-06		1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS24060487-07		1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS24060487-08		1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS24060487-09		1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat

Batch ID: 213517 **Start Date:** 13 Jun 2024 16:00 **End Date:** 13 Jun 2024 16:00
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24060487-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24060487-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24060487-04		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24060487-05		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24060487-07		10 (mL)	10 (mL)	1	120 plastic HNO3

Batch ID: 213707 **Start Date:** 18 Jun 2024 09:00 **End Date:** 18 Jun 2024 09:00
Method: MERCURY PREP BY 7470A- WATER **Prep Code:** HG_WPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS24060487-01		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24060487-03		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24060487-04		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24060487-05		10 (mL)	10 (mL)	1	120 plastic HNO3
HS24060487-07		10 (mL)	10 (mL)	1	120 plastic HNO3

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060487

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 213281 (0)	**Test Name :** SEMIVOLATILES SIM				**Matrix:** Water	
HS24060487-01	18CPTMW04SW_060724	07 Jun 2024 06:55		11 Jun 2024 07:00	20 Jun 2024 18:16	1
HS24060487-02	18CPTMW04_060724	07 Jun 2024 07:35		11 Jun 2024 07:00	20 Jun 2024 18:34	1
HS24060487-06	18ww06_060724	07 Jun 2024 10:00		11 Jun 2024 07:00	20 Jun 2024 18:51	1
HS24060487-07	18ww02_060724	07 Jun 2024 10:45		11 Jun 2024 07:00	20 Jun 2024 19:09	1
HS24060487-08	18CPTMW23SW_060724	07 Jun 2024 11:35		11 Jun 2024 07:00	20 Jun 2024 19:26	1
HS24060487-09	18CPTMW23_060724	07 Jun 2024 12:20		11 Jun 2024 07:00	21 Jun 2024 16:41	10
Batch ID: 213517 (0)	**Test Name :** METALS BY ICPMS BY SW6020A				**Matrix:** Water	
HS24060487-01	18CPTMW04SW_060724	07 Jun 2024 06:55		13 Jun 2024 16:00	19 Jun 2024 14:28	100
HS24060487-01	18CPTMW04SW_060724	07 Jun 2024 06:55		13 Jun 2024 16:00	19 Jun 2024 13:59	1
HS24060487-03	AWD3_060724	07 Jun 2024 08:20		13 Jun 2024 16:00	19 Jun 2024 14:01	1
HS24060487-04	MW1_060724	07 Jun 2024 09:10		13 Jun 2024 16:00	19 Jun 2024 14:24	100
HS24060487-04	MW1_060724	07 Jun 2024 09:10		13 Jun 2024 16:00	19 Jun 2024 14:03	1
HS24060487-05	MW1_060724_a	07 Jun 2024 09:10		13 Jun 2024 16:00	19 Jun 2024 14:26	100
HS24060487-05	MW1_060724_a	07 Jun 2024 09:10		13 Jun 2024 16:00	19 Jun 2024 14:05	1
HS24060487-07	18ww02_060724	07 Jun 2024 10:45		13 Jun 2024 16:00	19 Jun 2024 14:07	1
Batch ID: 213707 (0)	**Test Name :** MERCURY BY SW7470A				**Matrix:** Water	
HS24060487-01	18CPTMW04SW_060724	07 Jun 2024 06:55		18 Jun 2024 09:00	18 Jun 2024 14:55	1
HS24060487-03	AWD3_060724	07 Jun 2024 08:20		18 Jun 2024 09:00	18 Jun 2024 14:57	1
HS24060487-04	MW1_060724	07 Jun 2024 09:10		18 Jun 2024 09:00	18 Jun 2024 14:59	1
HS24060487-05	MW1_060724_a	07 Jun 2024 09:10		18 Jun 2024 09:00	18 Jun 2024 15:00	1
HS24060487-07	18ww02_060724	07 Jun 2024 10:45		18 Jun 2024 09:00	18 Jun 2024 15:02	1
Batch ID: R469280 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Water	
HS24060487-01	18CPTMW04SW_060724	07 Jun 2024 06:55			12 Jun 2024 23:32	1
HS24060487-02	18CPTMW04_060724	07 Jun 2024 07:35			12 Jun 2024 23:55	1
HS24060487-03	AWD3_060724	07 Jun 2024 08:20			13 Jun 2024 00:20	10
Batch ID: R469580 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Water	
HS24060487-04	MW1_060724	07 Jun 2024 09:10			16 Jun 2024 04:08	100
HS24060487-05	MW1_060724_a	07 Jun 2024 09:10			16 Jun 2024 04:30	100
HS24060487-06	18ww06_060724	07 Jun 2024 10:00			16 Jun 2024 02:13	1
HS24060487-07	18ww02_060724	07 Jun 2024 10:45			16 Jun 2024 02:36	1
HS24060487-08	18CPTMW23SW_060724	07 Jun 2024 11:35			16 Jun 2024 02:59	1
HS24060487-09	18CPTMW23_060724	07 Jun 2024 12:20			16 Jun 2024 03:45	10
HS24060487-10	Trip Blank	07 Jun 2024 00:00			16 Jun 2024 03:22	1
Batch ID: R469833 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Water	
HS24060487-09	18CPTMW23_060724	07 Jun 2024 12:20			18 Jun 2024 23:25	500

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060487

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R470344 (0)	**Test Name :** SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)				**Matrix:** Water	
HS24060487-01	18CPTMW04SW_060724	07 Jun 2024 06:55			25 Jun 2024 10:20	1
HS24060487-02	18CPTMW04_060724	07 Jun 2024 07:35			25 Jun 2024 10:20	1
HS24060487-03	AWD3_060724	07 Jun 2024 08:20			25 Jun 2024 10:20	1
HS24060487-04	MW1_060724	07 Jun 2024 09:10			25 Jun 2024 10:20	1
HS24060487-05	MW1_060724_a	07 Jun 2024 09:10			25 Jun 2024 10:20	1
HS24060487-06	18ww06_060724	07 Jun 2024 10:00			25 Jun 2024 10:20	1
HS24060487-07	18ww02_060724	07 Jun 2024 10:45			25 Jun 2024 10:20	1
HS24060487-08	18CPTMW23SW_060724	07 Jun 2024 11:35			25 Jun 2024 10:20	1
HS24060487-09	18CPTMW23_060724	07 Jun 2024 12:20			25 Jun 2024 10:20	1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060487

QC BATCH REPORT

Batch ID: 213517 (0) **Instrument: ICPMS05** **Method: METALS BY ICPMS BY SW6020A**

MBLK Sample ID: **MBLK-213517** Units: **mg/L** Analysis Date: **19-Jun-2024 12:37**
Client ID: Run ID: **ICPMS05_469846** SeqNo: **8085603** PrepDate: **13-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.00500	0.0100								U
Antimony	0.00125	0.00500								U
Arsenic	0.00125	0.00500								U
Barium	0.00250	0.00500								U
Beryllium	0.000500	0.00200								U
Cadmium	0.000500	0.00200								U
Calcium	0.0500	0.500								U
Chromium	0.00125	0.00500								U
Cobalt	0.000500	0.00500								U
Copper	0.00250	0.00500								U
Iron	0.0500	0.200								U
Lead	0.00125	0.00500								U
Magnesium	0.0500	0.200								U
Manganese	0.00250	0.00500								U
Nickel	0.00125	0.00500								U
Potassium	0.0500	0.200								U
Selenium	0.00250	0.00500								U
Silver	0.000500	0.00500								U
Sodium	0.0500	0.200								U
Thallium	0.000500	0.00200								U
Vanadium	0.00125	0.00500								U
Zinc	0.00250	0.00500								U

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060487

QC BATCH REPORT

Batch ID: 213517 (0) **Instrument: ICPMS05** **Method: METALS BY ICPMS BY SW6020A**

LCS Sample ID: **LCS-213517** Units: **mg/L** Analysis Date: **19-Jun-2024 12:42**
Client ID: Run ID: **ICPMS05_469846** SeqNo: **8085604** PrepDate: **13-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1079	0.0100	0.1	0	108	84 - 117				
Antimony	0.04461	0.00500	0.05	0	89.2	85 - 117				
Arsenic	0.04507	0.00500	0.05	0	90.1	84 - 116				
Barium	0.04712	0.00500	0.05	0	94.2	86 - 114				
Beryllium	0.04443	0.00200	0.05	0	88.9	83 - 121				
Cadmium	0.04644	0.00200	0.05	0	92.9	87 - 115				
Calcium	4.72	0.500	5	0	94.4	87 - 118				
Chromium	0.0466	0.00500	0.05	0	93.2	85 - 116				
Cobalt	0.04667	0.00500	0.05	0	93.3	86 - 115				
Copper	0.04738	0.00500	0.05	0	94.8	85 - 118				
Iron	4.766	0.200	5	0	95.3	87 - 118				
Lead	0.04671	0.00500	0.05	0	93.4	88 - 115				
Magnesium	4.542	0.200	5	0	90.8	83 - 118				
Manganese	0.0499	0.00500	0.05	0	99.8	87 - 115				
Nickel	0.04697	0.00500	0.05	0	93.9	85 - 117				
Potassium	4.67	0.200	5	0	93.4	87 - 115				
Selenium	0.04638	0.00500	0.05	0	92.8	80 - 120				
Silver	0.0461	0.00500	0.05	0	92.2	85 - 116				
Sodium	4.637	0.200	5	0	92.7	85 - 117				
Thallium	0.04622	0.00200	0.05	0	92.4	82 - 116				
Vanadium	0.04553	0.00500	0.05	0	91.1	86 - 115				
Zinc	0.0476	0.00500	0.05	0	95.2	83 - 119				

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060487

QC BATCH REPORT

Batch ID: 213517 (0) **Instrument: ICPMS05** **Method: METALS BY ICPMS BY SW6020A**

MS Sample ID: **HS24060434-09MS** Units: **mg/L** Analysis Date: **19-Jun-2024 13:32**
Client ID: Run ID: **ICPMS05_469846** SeqNo: **8085856** PrepDate: **13-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1058	0.0100	0.1	0.01964	86.2	84 - 117				
Antimony	0.04446	0.00500	0.05	0.001111	86.7	85 - 117				
Arsenic	0.0442	0.00500	0.05	0.000439	87.5	84 - 116				
Barium	0.3497	0.00500	0.05	0.3155	68.3	86 - 114				SO
Beryllium	0.04265	0.00200	0.05	0.000106	85.1	83 - 121				
Cadmium	0.04459	0.00200	0.05	0.000269	88.6	87 - 115				
Calcium	21.37	0.500	5	17.69	73.7	87 - 118				S
Chromium	0.1556	0.00500	0.05	0.1162	78.9	85 - 116				S
Cobalt	0.04545	0.00500	0.05	0.001942	87.0	86 - 115				
Copper	0.04916	0.00500	0.05	0.005888	86.5	85 - 118				
Iron	5.905	0.200	5	1.17	94.7	87 - 118				
Lead	0.04454	0.00500	0.05	0.000123	88.8	88 - 115				
Magnesium	18.23	0.200	5	14.2	80.5	83 - 118				S
Manganese	0.168	0.00500	0.05	0.1291	77.8	87 - 115				S
Nickel	0.1734	0.00500	0.05	0.1368	73.2	85 - 117				S
Potassium	7.157	0.200	5	2.278	97.6	87 - 115				
Selenium	0.04378	0.00500	0.05	0.00148	84.6	80 - 120				
Silver	0.04283	0.00500	0.05	0.000227	85.2	85 - 116				
Sodium	71.42	0.200	5	69.48	38.7	85 - 117				SO
Thallium	0.04408	0.00200	0.05	0.00012	87.9	82 - 116				
Vanadium	0.04081	0.00500	0.05	-0.002788	87.2	86 - 115				
Zinc	0.05392	0.00500	0.05	0.01153	84.8	83 - 119				

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060487

QC BATCH REPORT

Batch ID: 213517 (0) **Instrument: ICPMS05** **Method: METALS BY ICPMS BY SW6020A**

MSD Sample ID: **HS24060434-09MSD** Units: **mg/L** Analysis Date: **19-Jun-2024 13:34**
Client ID: Run ID: **ICPMS05_469846** SeqNo: **8085857** PrepDate: **13-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1067	0.0100	0.1	0.01964	87.0	84 - 117	0.1058	0.773	20	
Antimony	0.04533	0.00500	0.05	0.001111	88.4	85 - 117	0.04446	1.94	20	
Arsenic	0.04442	0.00500	0.05	0.000439	88.0	84 - 116	0.0442	0.497	20	
Barium	0.3581	0.00500	0.05	0.3155	85.2	86 - 114	0.3497	2.38	20	SO
Beryllium	0.04415	0.00200	0.05	0.000106	88.1	83 - 121	0.04265	3.45	20	
Cadmium	0.0453	0.00200	0.05	0.000269	90.1	87 - 115	0.04459	1.57	20	
Calcium	22.03	0.500	5	17.69	86.9	87 - 118	21.37	3.05	20	S
Chromium	0.1582	0.00500	0.05	0.1162	84.1	85 - 116	0.1556	1.66	20	S
Cobalt	0.04683	0.00500	0.05	0.001942	89.8	86 - 115	0.04545	2.99	20	
Copper	0.05017	0.00500	0.05	0.005888	88.6	85 - 118	0.04916	2.03	20	
Iron	6.056	0.200	5	1.17	97.7	87 - 118	5.905	2.52	20	
Lead	0.04574	0.00500	0.05	0.000123	91.2	88 - 115	0.04454	2.66	20	
Magnesium	18.64	0.200	5	14.2	88.7	83 - 118	18.23	2.23	20	
Manganese	0.1731	0.00500	0.05	0.1291	88.0	87 - 115	0.168	3.02	20	
Nickel	0.1777	0.00500	0.05	0.1368	81.8	85 - 117	0.1734	2.45	20	S
Potassium	7.272	0.200	5	2.278	99.9	87 - 115	7.157	1.59	20	
Selenium	0.04376	0.00500	0.05	0.00148	84.6	80 - 120	0.04378	0.0228	20	
Silver	0.04315	0.00500	0.05	0.000227	85.8	85 - 116	0.04283	0.754	20	
Sodium	73.98	0.200	5	69.48	90.0	85 - 117	71.42	3.53	20	O
Thallium	0.04557	0.00200	0.05	0.00012	90.9	82 - 116	0.04408	3.31	20	
Vanadium	0.04025	0.00500	0.05	-0.002788	86.1	86 - 115	0.04081	1.38	20	
Zinc	0.05391	0.00500	0.05	0.01153	84.8	83 - 119	0.05392	0.0223	20	

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060487

QC BATCH REPORT

Batch ID: 213517 (0) **Instrument: ICPMS05** **Method: METALS BY ICPMS BY SW6020A**

PDS Sample ID: **HS24060434-09PDS** Units: **mg/L** Analysis Date: **19-Jun-2024 13:36**
Client ID: Run ID: **ICPMS05_469846** SeqNo: **8085858** PrepDate: **13-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1054	0.0100	0.1	0.01964	85.7	80 - 120				
Antimony	0.08953	0.00500	0.1	0.001111	88.4	80 - 120				
Arsenic	0.09139	0.00500	0.1	0.000439	91.0	80 - 120				
Barium	0.4203	0.00500	0.1	0.3155	105	80 - 120				
Beryllium	0.08421	0.00200	0.1	0.000106	84.1	80 - 120				
Cadmium	0.09144	0.00200	0.1	0.000269	91.2	80 - 120				
Calcium	26.8	0.500	10	17.69	91.1	80 - 120				
Chromium	0.2081	0.00500	0.1	0.1162	91.9	80 - 120				
Cobalt	0.09219	0.00500	0.1	0.001942	90.2	80 - 120				
Copper	0.09622	0.00500	0.1	0.005888	90.3	80 - 120				
Iron	11.25	0.200	10	1.17	101	80 - 120				
Lead	0.09422	0.00500	0.1	0.000123	94.1	80 - 120				
Magnesium	23.87	0.200	10	14.2	96.6	80 - 120				
Manganese	0.2236	0.00500	0.1	0.1291	94.5	80 - 120				
Nickel	0.2273	0.00500	0.1	0.1368	90.5	80 - 120				
Potassium	12.27	0.200	10	2.278	99.9	80 - 120				
Selenium	0.09181	0.00500	0.1	0.00148	90.3	80 - 120				
Silver	0.09016	0.00500	0.1	0.000227	89.9	80 - 120				
Sodium	81.56	0.200	10	69.48	121	80 - 120				SO
Thallium	0.09376	0.00200	0.1	0.00012	93.6	80 - 120				
Vanadium	0.08561	0.00500	0.1	-0.002788	88.4	80 - 120				
Zinc	0.1015	0.00500	0.1	0.01153	90.0	80 - 120				

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060487

QC BATCH REPORT

Batch ID: 213517 (0) **Instrument: ICPMS05** **Method: METALS BY ICPMS BY SW6020A**

SD Sample ID: **HS24060434-09SD** Units: **mg/L** Analysis Date: **19-Jun-2024 13:30**
Client ID: Run ID: **ICPMS05_469846** SeqNo: **8085855** PrepDate: **13-Jun-2024** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Aluminum	0.01336	0.0500					0.01964	0	10	J
Antimony	0.002317	0.0250					0.001111	0	10	J
Arsenic	0.00625	0.0250					0.000439	0	10	U
Barium	0.3108	0.0250					0.3155	1.49	10	
Beryllium	0.00250	0.0100					0.000106	0	10	U
Cadmium	0.00250	0.0100					0.000269	0	10	U
Calcium	17.73	2.50					17.69	0.254	10	
Chromium	0.1144	0.0250					0.1162	1.59	10	
Cobalt	0.002001	0.0250					0.001942	0	10	J
Copper	0.006162	0.0250					0.005888	0	10	J
Iron	1.068	1.00					1.17	8.68	10	
Lead	0.00625	0.0250					0.000123	0	10	U
Magnesium	13.27	1.00					14.2	6.59	10	
Manganese	0.1306	0.0250					0.1291	1.14	10	
Nickel	0.1412	0.0250					0.1368	3.18	10	
Potassium	2.35	1.00					2.278	3.13	10	
Selenium	0.0125	0.0250					0.00148	0	10	U
Silver	0.00250	0.0250					0.000227	0	10	U
Sodium	72.23	1.00					69.48	3.95	10	
Thallium	0.00250	0.0100					0.00012	0	10	U
Vanadium	0.00625	0.0250					-0.002788	0	10	U
Zinc	0.01233	0.0250					0.01153	0	10	J

The following samples were analyzed in this batch: HS24060487-01 HS24060487-03 HS24060487-04 HS24060487-05 HS24060487-07

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060487

QC BATCH REPORT

Batch ID: 213707 (0) **Instrument: HG04** **Method: MERCURY BY SW7470A**

MBLK Sample ID: **MBLK-213707** Units: **mg/L** Analysis Date: **18-Jun-2024 14:14**
Client ID: Run ID: **HG04_469750** SeqNo: **8083423** PrepDate: **18-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.000000100	0.000200								U

LCS Sample ID: **LCS-213707** Units: **mg/L** Analysis Date: **18-Jun-2024 14:16**
Client ID: Run ID: **HG04_469750** SeqNo: **8083424** PrepDate: **18-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00421	0.000200	0.005	0	84.2	82 - 119				

MS Sample ID: **HS24060434-09MS** Units: **mg/L** Analysis Date: **18-Jun-2024 14:35**
Client ID: Run ID: **HG04_469750** SeqNo: **8083435** PrepDate: **18-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00441	0.000200	0.005	-0.00001100	88.4	82 - 119				

MSD Sample ID: **HS24060434-09MSD** Units: **mg/L** Analysis Date: **18-Jun-2024 14:37**
Client ID: Run ID: **HG04_469750** SeqNo: **8083436** PrepDate: **18-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00438	0.000200	0.005	-0.00001100	87.8	82 - 119	0.004410	0.683	20	

The following samples were analyzed in this batch: HS24060487-01 HS24060487-03 HS24060487-04 HS24060487-05 HS24060487-07

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060487

QC BATCH REPORT

Batch ID: 213281 (0) **Instrument: SV-6** **Method: SEMIVOLATILES SIM**

MBLK Sample ID: **MBLK-213281** Units: **ug/L** Analysis Date: **20-Jun-2024 15:39**
Client ID: Run ID: **SV-6_470076** SeqNo: **8090411** PrepDate: **11-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.0040	0.030								U
Surr: 2-Fluorobiphenyl	*0.06622*	*0*	*0.08*	*0*	*82.8*	*40 - 140*				
Surr: 4-Terphenyl-d14	*0.07136*	*0*	*0.08*	*0*	*89.2*	*40 - 140*				
Surr: Nitrobenzene-d5	*0.06596*	*0*	*0.08*	*0*	*82.4*	*40 - 140*				

LCS Sample ID: **LCS-213281** Units: **ug/L** Analysis Date: **20-Jun-2024 15:56**
Client ID: Run ID: **SV-6_470076** SeqNo: **8090412** PrepDate: **11-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.0878	0.030	0.08	0	110	40 - 140				
Surr: 2-Fluorobiphenyl	*0.07302*	*0*	*0.08*	*0*	*91.3*	*40 - 140*				
Surr: 4-Terphenyl-d14	*0.06839*	*0*	*0.08*	*0*	*85.5*	*40 - 140*				
Surr: Nitrobenzene-d5	*0.06417*	*0*	*0.08*	*0*	*80.2*	*40 - 140*				

LCSD Sample ID: **LCSD-213281** Units: **ug/L** Analysis Date: **20-Jun-2024 16:14**
Client ID: Run ID: **SV-6_470076** SeqNo: **8090413** PrepDate: **11-Jun-2024** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dioxane	0.07841	0.030	0.08	0	98.0	40 - 140	0.0878	11.3	20	
Surr: 2-Fluorobiphenyl	*0.07371*	*0*	*0.08*	*0*	*92.1*	*40 - 140*	*0.07302*	*0.934*	*20*	
Surr: 4-Terphenyl-d14	*0.07881*	*0*	*0.08*	*0*	*98.5*	*40 - 140*	*0.06839*	*14.1*	*20*	
Surr: Nitrobenzene-d5	*0.0648*	*0*	*0.08*	*0*	*81.0*	*40 - 140*	*0.06417*	*0.978*	*20*	

The following samples were analyzed in this batch: HS24060487-01 HS24060487-02 HS24060487-06 HS24060487-07 HS24060487-08 HS24060487-09

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060487

QC BATCH REPORT

Batch ID: R469280 (0) **Instrument:** VOA7 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-240612** Units: **ug/L** Analysis Date: **12-Jun-2024 17:26**
Client ID: Run ID: **VOA7_469280** SeqNo: **8067977** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	0.50	1.0								U
1,1,1-Trichloroethane	0.50	1.0								U
1,1,2,2-Tetrachloroethane	0.50	1.0								U
1,1,2-Trichloroethane	0.50	1.0								U
1,1-Dichloroethane	0.50	1.0								U
1,1-Dichloroethene	0.50	1.0								U
1,1-Dichloropropene	0.50	1.0								U
1,2,3-Trichlorobenzene	0.50	1.0								U
1,2,3-Trichloropropane	0.50	1.0								U
1,2,4-Trichlorobenzene	0.50	1.0								U
1,2,4-Trimethylbenzene	0.50	1.0								U
1,2-Dibromo-3-chloropropane	0.50	1.0								U
1,2-Dibromoethane	0.50	1.0								U
1,2-Dichlorobenzene	0.50	1.0								U
1,2-Dichloroethane	0.50	1.0								U
1,2-Dichloropropane	0.50	1.0								U
1,3,5-Trimethylbenzene	0.50	1.0								U
1,3-Dichlorobenzene	0.50	1.0								U
1,3-Dichloropropane	0.50	1.0								U
1,4-Dichlorobenzene	0.50	1.0								U
2,2-Dichloropropane	0.50	1.0								U
2-Butanone	1.0	2.0								U
2-Chlorotoluene	0.50	1.0								U
2-Hexanone	1.0	2.0								U
4-Chlorotoluene	0.50	1.0								U
4-Isopropyltoluene	0.50	1.0								U
4-Methyl-2-pentanone	1.0	2.0								U
Acetone	1.0	2.0								U
Benzene	0.50	1.0								U
Bromobenzene	0.50	1.0								U
Bromochloromethane	0.50	1.0								U
Bromodichloromethane	0.50	1.0								U
Bromoform	0.50	1.0								U
Bromomethane	0.50	1.0								U

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060487

QC BATCH REPORT

Batch ID: R469280 (0) **Instrument:** VOA7 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-240612** Units: **ug/L** Analysis Date: **12-Jun-2024 17:26**
Client ID: Run ID: **VOA7_469280** SeqNo: **8067977** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	1.0	2.0								U
Carbon tetrachloride	0.50	1.0								U
Chlorobenzene	0.50	1.0								U
Chloroethane	0.50	1.0								U
Chloroform	0.50	1.0								U
Chloromethane	0.50	1.0								U
cis-1,2-Dichloroethene	0.50	1.0								U
cis-1,3-Dichloropropene	0.50	1.0								U
Dibromochloromethane	0.50	1.0								U
Dibromomethane	0.50	1.0								U
Dichlorodifluoromethane	0.50	1.0								U
Ethylbenzene	0.50	1.0								U
Hexachlorobutadiene	0.50	1.0								U
Isopropylbenzene	0.50	1.0								U
m,p-Xylene	1.0	2.0								U
Methylene chloride	0.50	2.0								U
Naphthalene	0.50	1.0								U
n-Butylbenzene	0.50	1.0								U
n-Propylbenzene	0.50	1.0								U
o-Xylene	0.50	1.0								U
sec-Butylbenzene	0.50	1.0								U
Styrene	0.50	1.0								U
tert-Butylbenzene	0.50	1.0								U
Tetrachloroethene	0.50	1.0								U
Toluene	0.50	1.0								U
trans-1,2-Dichloroethene	0.50	1.0								U
trans-1,3-Dichloropropene	0.50	1.0								U
Trichloroethene	0.50	1.0								U
Trichlorofluoromethane	0.50	1.0								U
Vinyl chloride	0.50	1.0								U
Surr: 1,2-Dichloroethane-d4	*55.8*	*35*	*50*	*0*	*112*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*48.58*	*35*	*50*	*0*	*97.2*	*85 - 114*				
Surr: Dibromofluoromethane	*56.06*	*35*	*50*	*0*	*112*	*80 - 119*				
Surr: Toluene-d8	*53.79*	*35*	*50*	*0*	*108*	*89 - 112*				

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060487

QC BATCH REPORT

Batch ID: R469280 (0) **Instrument:** VOA7 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCS Sample ID: **VLCSW-240612** Units: **ug/L** Analysis Date: **12-Jun-2024 16:40**
Client ID: Run ID: **VOA7_469280** SeqNo: **8067975** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	19.55	1.0	20	0	97.7	78 - 124				
1,1,1-Trichloroethane	19.28	1.0	20	0	96.4	74 - 131				
1,1,2,2-Tetrachloroethane	20.71	1.0	20	0	104	71 - 121				
1,1,2-Trichloroethane	19.88	1.0	20	0	99.4	80 - 119				
1,1-Dichloroethane	19.8	1.0	20	0	99.0	77 - 125				
1,1-Dichloroethene	19.56	1.0	20	0	97.8	71 - 131				
1,1-Dichloropropene	19.95	1.0	20	0	99.8	78 - 125				
1,2,3-Trichlorobenzene	23.51	1.0	20	0	118	69 - 129				
1,2,3-Trichloropropane	20.86	1.0	20	0	104	73 - 122				
1,2,4-Trichlorobenzene	22.28	1.0	20	0	111	69 - 130				
1,2,4-Trimethylbenzene	21.34	1.0	20	0	107	76 - 124				
1,2-Dibromo-3-chloropropane	20.51	1.0	20	0	103	62 - 128				
1,2-Dibromoethane	20.09	1.0	20	0	100	77 - 121				
1,2-Dichlorobenzene	20.85	1.0	20	0	104	80 - 119				
1,2-Dichloroethane	19.85	1.0	20	0	99.3	73 - 128				
1,2-Dichloropropane	20.24	1.0	20	0	101	78 - 122				
1,3,5-Trimethylbenzene	20.84	1.0	20	0	104	75 - 124				
1,3-Dichlorobenzene	20.98	1.0	20	0	105	80 - 119				
1,3-Dichloropropane	20.03	1.0	20	0	100	80 - 119				
1,4-Dichlorobenzene	20.93	1.0	20	0	105	79 - 118				
2,2-Dichloropropane	18.8	1.0	20	0	94.0	60 - 139				
2-Butanone	43.13	2.0	40	0	108	56 - 143				
2-Chlorotoluene	21.02	1.0	20	0	105	79 - 122				
2-Hexanone	41.1	2.0	40	0	103	57 - 139				
4-Chlorotoluene	20.78	1.0	20	0	104	78 - 122				
4-Isopropyltoluene	19.83	1.0	20	0	99.1	77 - 127				
4-Methyl-2-pentanone	41.84	2.0	40	0	105	67 - 130				
Acetone	39.58	2.0	40	0	98.9	39 - 160				
Benzene	20.33	1.0	20	0	102	79 - 120				
Bromobenzene	20.7	1.0	20	0	103	80 - 120				
Bromochloromethane	19.56	1.0	20	0	97.8	78 - 123				
Bromodichloromethane	19.31	1.0	20	0	96.5	79 - 125				
Bromoform	19.7	1.0	20	0	98.5	66 - 130				
Bromomethane	18.57	1.0	20	0	92.8	53 - 141				

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060487

QC BATCH REPORT

Batch ID: R469280 (0) **Instrument:** VOA7 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCS Sample ID: **VLCSW-240612** Units: **ug/L** Analysis Date: **12-Jun-2024 16:40**
Client ID: Run ID: **VOA7_469280** SeqNo: **8067975** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	40.11	2.0	40	0	100	64 - 133				
Carbon tetrachloride	19.02	1.0	20	0	95.1	72 - 136				
Chlorobenzene	20.1	1.0	20	0	101	82 - 118				
Chloroethane	20.12	1.0	20	0	101	60 - 138				
Chloroform	19.72	1.0	20	0	98.6	79 - 124				
Chloromethane	19.95	1.0	20	0	99.8	50 - 139				
cis-1,2-Dichloroethene	19.81	1.0	20	0	99.0	78 - 123				
cis-1,3-Dichloropropene	19.66	1.0	20	0	98.3	75 - 124				
Dibromochloromethane	19.45	1.0	20	0	97.3	74 - 126				
Dibromomethane	20.03	1.0	20	0	100	79 - 123				
Dichlorodifluoromethane	19.19	1.0	20	0	96.0	32 - 152				
Ethylbenzene	20.26	1.0	20	0	101	79 - 121				
Hexachlorobutadiene	25.2	1.0	20	0	126	66 - 134				
Isopropylbenzene	20.33	1.0	20	0	102	72 - 131				
m,p-Xylene	41.1	2.0	40	0	103	80 - 121				
Methylene chloride	20.22	2.0	20	0	101	74 - 124				
Naphthalene	22.91	1.0	20	0	115	61 - 128				
n-Butylbenzene	20.75	1.0	20	0	104	75 - 128				
n-Propylbenzene	20.95	1.0	20	0	105	76 - 126				
o-Xylene	20.34	1.0	20	0	102	78 - 122				
sec-Butylbenzene	21.44	1.0	20	0	107	77 - 126				
Styrene	20.43	1.0	20	0	102	78 - 123				
tert-Butylbenzene	21.31	1.0	20	0	107	78 - 124				
Tetrachloroethene	19.73	1.0	20	0	98.6	74 - 129				
Toluene	20.25	1.0	20	0	101	80 - 121				
trans-1,2-Dichloroethene	18.94	1.0	20	0	94.7	75 - 124				
trans-1,3-Dichloropropene	19.66	1.0	20	0	98.3	73 - 127				
Trichloroethene	20.39	1.0	20	0	102	79 - 123				
Trichlorofluoromethane	19.27	1.0	20	0	96.3	65 - 141				
Vinyl chloride	20.41	1.0	20	0	102	58 - 137				
Surr: 1,2-Dichloroethane-d4	*51.13*	*35*	*50*	*0*	*102*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*50.7*	*35*	*50*	*0*	*101*	*85 - 114*				
Surr: Dibromofluoromethane	*49.54*	*35*	*50*	*0*	*99.1*	*80 - 119*				
Surr: Toluene-d8	*52.27*	*35*	*50*	*0*	*105*	*89 - 112*				

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060487

QC BATCH REPORT

Batch ID: R469280 (0) **Instrument:** VOA7 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCSD Sample ID: **VLSDW-240612** Units: **ug/L** Analysis Date: **12-Jun-2024 17:03**
Client ID: Run ID: **VOA7_469280** SeqNo: **8067976** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	20.21	1.0	20	0	101	78 - 124	19.55	3.34	20	
1,1,1-Trichloroethane	18.88	1.0	20	0	94.4	74 - 131	19.28	2.06	20	
1,1,2,2-Tetrachloroethane	22.05	1.0	20	0	110	71 - 121	20.71	6.28	20	
1,1,2-Trichloroethane	20.77	1.0	20	0	104	80 - 119	19.88	4.41	20	
1,1-Dichloroethane	19.75	1.0	20	0	98.7	77 - 125	19.8	0.243	20	
1,1-Dichloroethene	18.81	1.0	20	0	94.0	71 - 131	19.56	3.95	20	
1,1-Dichloropropene	19.05	1.0	20	0	95.2	78 - 125	19.95	4.63	20	
1,2,3-Trichlorobenzene	22.47	1.0	20	0	112	69 - 129	23.51	4.53	20	
1,2,3-Trichloropropane	22.52	1.0	20	0	113	73 - 122	20.86	7.67	20	
1,2,4-Trichlorobenzene	22.81	1.0	20	0	114	69 - 130	22.28	2.37	20	
1,2,4-Trimethylbenzene	22.05	1.0	20	0	110	76 - 124	21.34	3.29	20	
1,2-Dibromo-3-chloropropane	20.93	1.0	20	0	105	62 - 128	20.51	2	20	
1,2-Dibromoethane	20.96	1.0	20	0	105	77 - 121	20.09	4.25	20	
1,2-Dichlorobenzene	21.83	1.0	20	0	109	80 - 119	20.85	4.59	20	
1,2-Dichloroethane	19.5	1.0	20	0	97.5	73 - 128	19.85	1.82	20	
1,2-Dichloropropane	19.5	1.0	20	0	97.5	78 - 122	20.24	3.72	20	
1,3,5-Trimethylbenzene	21.49	1.0	20	0	107	75 - 124	20.84	3.03	20	
1,3-Dichlorobenzene	22.08	1.0	20	0	110	80 - 119	20.98	5.14	20	
1,3-Dichloropropane	20.92	1.0	20	0	105	80 - 119	20.03	4.37	20	
1,4-Dichlorobenzene	21.6	1.0	20	0	108	79 - 118	20.93	3.14	20	
2,2-Dichloropropane	18.29	1.0	20	0	91.4	60 - 139	18.8	2.79	20	
2-Butanone	39.51	2.0	40	0	98.8	56 - 143	43.13	8.75	20	
2-Chlorotoluene	22.11	1.0	20	0	111	79 - 122	21.02	5.04	20	
2-Hexanone	42.17	2.0	40	0	105	57 - 139	41.1	2.58	20	
4-Chlorotoluene	21.77	1.0	20	0	109	78 - 122	20.78	4.63	20	
4-Isopropyltoluene	19.86	1.0	20	0	99.3	77 - 127	19.83	0.168	20	
4-Methyl-2-pentanone	42.17	2.0	40	0	105	67 - 130	41.84	0.792	20	
Acetone	41.39	2.0	40	0	103	39 - 160	39.58	4.47	20	
Benzene	19.53	1.0	20	0	97.6	79 - 120	20.33	4.01	20	
Bromobenzene	21.88	1.0	20	0	109	80 - 120	20.7	5.56	20	
Bromochloromethane	19.63	1.0	20	0	98.2	78 - 123	19.56	0.392	20	
Bromodichloromethane	19.13	1.0	20	0	95.7	79 - 125	19.31	0.906	20	
Bromoform	20.52	1.0	20	0	103	66 - 130	19.7	4.1	20	
Bromomethane	18.59	1.0	20	0	93.0	53 - 141	18.57	0.141	20	

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060487

QC BATCH REPORT

Batch ID: R469280 (0) **Instrument:** VOA7 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCSD Sample ID: **VLSDW-240612** Units: **ug/L** Analysis Date: **12-Jun-2024 17:03**
Client ID: Run ID: **VOA7_469280** SeqNo: **8067976** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Carbon disulfide	38.51	2.0	40	0	96.3	64 - 133	40.11	4.07	20	
Carbon tetrachloride	18.45	1.0	20	0	92.3	72 - 136	19.02	3.01	20	
Chlorobenzene	20.55	1.0	20	0	103	82 - 118	20.1	2.18	20	
Chloroethane	19.44	1.0	20	0	97.2	60 - 138	20.12	3.41	20	
Chloroform	19.11	1.0	20	0	95.6	79 - 124	19.72	3.11	20	
Chloromethane	19.83	1.0	20	0	99.2	50 - 139	19.95	0.597	20	
cis-1,2-Dichloroethene	19.55	1.0	20	0	97.7	78 - 123	19.81	1.31	20	
cis-1,3-Dichloropropene	19.09	1.0	20	0	95.5	75 - 124	19.66	2.91	20	
Dibromochloromethane	20.01	1.0	20	0	100	74 - 126	19.45	2.82	20	
Dibromomethane	19.96	1.0	20	0	99.8	79 - 123	20.03	0.332	20	
Dichlorodifluoromethane	18.63	1.0	20	0	93.2	32 - 152	19.19	2.96	20	
Ethylbenzene	20.25	1.0	20	0	101	79 - 121	20.26	0.0722	20	
Hexachlorobutadiene	23.8	1.0	20	0	119	66 - 134	25.2	5.68	20	
Isopropylbenzene	20.39	1.0	20	0	102	72 - 131	20.33	0.3	20	
m,p-Xylene	40.73	2.0	40	0	102	80 - 121	41.1	0.894	20	
Methylene chloride	19.85	2.0	20	0	99.3	74 - 124	20.22	1.85	20	
Naphthalene	22.96	1.0	20	0	115	61 - 128	22.91	0.224	20	
n-Butylbenzene	21.03	1.0	20	0	105	75 - 128	20.75	1.34	20	
n-Propylbenzene	21.7	1.0	20	0	108	76 - 126	20.95	3.48	20	
o-Xylene	20.65	1.0	20	0	103	78 - 122	20.34	1.49	20	
sec-Butylbenzene	21.66	1.0	20	0	108	77 - 126	21.44	1.05	20	
Styrene	20.55	1.0	20	0	103	78 - 123	20.43	0.597	20	
tert-Butylbenzene	22.04	1.0	20	0	110	78 - 124	21.31	3.36	20	
Tetrachloroethene	19.96	1.0	20	0	99.8	74 - 129	19.73	1.16	20	
Toluene	20.21	1.0	20	0	101	80 - 121	20.25	0.172	20	
trans-1,2-Dichloroethene	18.35	1.0	20	0	91.7	75 - 124	18.94	3.16	20	
trans-1,3-Dichloropropene	19.09	1.0	20	0	95.5	73 - 127	19.66	2.91	20	
Trichloroethene	19.3	1.0	20	0	96.5	79 - 123	20.39	5.5	20	
Trichlorofluoromethane	18.93	1.0	20	0	94.7	65 - 141	19.27	1.74	20	
Vinyl chloride	19.25	1.0	20	0	96.3	58 - 137	20.41	5.84	20	
Surr: 1,2-Dichloroethane-d4	*51.22*	*35*	*50*	*0*	*102*	*81 - 118*	*51.13*	*0.171*	*20*	
Surr: 4-Bromofluorobenzene	*51.55*	*35*	*50*	*0*	*103*	*85 - 114*	*50.7*	*1.66*	*20*	
Surr: Dibromofluoromethane	*49.24*	*35*	*50*	*0*	*98.5*	*80 - 119*	*49.54*	*0.621*	*20*	
Surr: Toluene-d8	*52.57*	*35*	*50*	*0*	*105*	*89 - 112*	*52.27*	*0.571*	*20*	

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060487

QC BATCH REPORT

Batch ID: R469280 (0) **Instrument:** VOA7 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS24060214-10MS** Units: **ug/L** Analysis Date: **12-Jun-2024 19:20**
Client ID: Run ID: **VOA7_469280** SeqNo: **8067979** PrepDate: DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	1596	100	2000	0	79.8	78 - 124				
1,1,1-Trichloroethane	1739	100	2000	0	87.0	74 - 131				
1,1,2,2-Tetrachloroethane	1440	100	2000	0	72.0	71 - 121				
1,1,2-Trichloroethane	1524	100	2000	0	76.2	80 - 119				S
1,1-Dichloroethane	1730	100	2000	0	86.5	77 - 125				
1,1-Dichloroethene	2151	100	2000	189.3	98.1	71 - 131				
1,1-Dichloropropene	1754	100	2000	0	87.7	78 - 125				
1,2,3-Trichlorobenzene	1277	100	2000	0	63.9	69 - 129				S
1,2,3-Trichloropropane	1473	100	2000	2751	-63.9	73 - 122				S
1,2,4-Trichlorobenzene	1389	100	2000	51.18	66.9	69 - 130				S
1,2,4-Trimethylbenzene	1596	100	2000	0	79.8	76 - 124				
1,2-Dibromo-3-chloropropane	1273	100	2000	0	63.6	62 - 128				
1,2-Dibromoethane	1625	100	2000	0	81.2	77 - 121				
1,2-Dichlorobenzene	1465	100	2000	0	73.3	80 - 119				S
1,2-Dichloroethane	1624	100	2000	298.3	66.3	73 - 128				S
1,2-Dichloropropane	1687	100	2000	2969	-64.1	78 - 122				S
1,3,5-Trimethylbenzene	1612	100	2000	0	80.6	75 - 124				
1,3-Dichlorobenzene	1551	100	2000	0	77.6	80 - 119				S
1,3-Dichloropropane	1548	100	2000	0	77.4	80 - 119				S
1,4-Dichlorobenzene	1546	100	2000	0	77.3	79 - 118				S
2,2-Dichloropropane	1653	100	2000	0	82.7	60 - 139				
2-Butanone	3082	200	4000	0	77.1	56 - 143				
2-Chlorotoluene	1618	100	2000	0	80.9	79 - 122				
2-Hexanone	2776	200	4000	0	69.4	57 - 139				
4-Chlorotoluene	1604	100	2000	0	80.2	78 - 122				
4-Isopropyltoluene	1513	100	2000	0	75.7	77 - 127				S
4-Methyl-2-pentanone	2781	200	4000	0	69.5	67 - 130				
Acetone	2739	200	4000	0	68.5	39 - 160				
Benzene	1767	100	2000	0	88.3	79 - 120				
Bromobenzene	1596	100	2000	0	79.8	80 - 120				S
Bromochloromethane	1683	100	2000	0	84.2	78 - 123				
Bromodichloromethane	1588	100	2000	0	79.4	79 - 125				
Bromoform	1475	100	2000	0	73.7	66 - 130				
Bromomethane	1787	100	2000	0	89.4	53 - 141				

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060487

QC BATCH REPORT

Batch ID: R469280 (0) **Instrument:** VOA7 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS24060214-10MS** Units: **ug/L** Analysis Date: **12-Jun-2024 19:20**
Client ID: Run ID: **VOA7_469280** SeqNo: **8067979** PrepDate: DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	3659	200	4000	0	91.5	64 - 133				
Carbon tetrachloride	1663	100	2000	73.02	79.5	72 - 136				
Chlorobenzene	1643	100	2000	0	82.1	82 - 118				
Chloroethane	1914	100	2000	0	95.7	60 - 138				
Chloroform	1728	100	2000	0	86.4	79 - 124				
Chloromethane	1948	100	2000	0	97.4	50 - 139				
cis-1,2-Dichloroethene	2450	100	2000	616.2	91.7	78 - 123				
cis-1,3-Dichloropropene	1656	100	2000	0	82.8	75 - 124				
Dibromochloromethane	1512	100	2000	0	75.6	74 - 126				
Dibromomethane	1598	100	2000	0	79.9	79 - 123				
Dichlorodifluoromethane	1846	100	2000	73.38	88.6	32 - 152				
Ethylbenzene	1701	100	2000	0	85.1	79 - 121				
Hexachlorobutadiene	1643	100	2000	0	82.2	66 - 134				
Isopropylbenzene	1701	100	2000	0	85.1	72 - 131				
m,p-Xylene	3392	200	4000	0	84.8	80 - 121				
Methylene chloride	1905	200	2000	43.16	93.1	74 - 124				
Naphthalene	1248	100	2000	0	62.4	61 - 128				
n-Butylbenzene	1522	100	2000	0	76.1	75 - 128				
n-Propylbenzene	1640	100	2000	0	82.0	76 - 126				
o-Xylene	1673	100	2000	0	83.7	78 - 122				
sec-Butylbenzene	1650	100	2000	0	82.5	77 - 126				
Styrene	1672	100	2000	0	83.6	78 - 123				
tert-Butylbenzene	1673	100	2000	0	83.7	78 - 124				
Tetrachloroethene	1636	100	2000	0	81.8	74 - 129				
Toluene	1700	100	2000	0	85.0	80 - 121				
trans-1,2-Dichloroethene	1695	100	2000	0	84.8	75 - 124				
trans-1,3-Dichloropropene	1656	100	2000	0	82.8	73 - 127				
Trichloroethene	9021	100	2000	6400	131	79 - 123				S
Trichlorofluoromethane	1809	100	2000	0	90.5	65 - 141				
Vinyl chloride	1898	100	2000	89.75	90.4	58 - 137				
Surr: 1,2-Dichloroethane-d4	*5847*	*3500*	*5000*	*0*	*117*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*5687*	*3500*	*5000*	*0*	*114*	*85 - 114*				
Surr: Dibromofluoromethane	*5798*	*3500*	*5000*	*0*	*116*	*80 - 119*				
Surr: Toluene-d8	*5825*	*3500*	*5000*	*0*	*116*	*89 - 112*				S

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060487

QC BATCH REPORT

Batch ID: R469280 (0) **Instrument:** VOA7 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS24060214-10MSD** Units: **ug/L** Analysis Date: **12-Jun-2024 19:43**
Client ID: Run ID: **VOA7_469280** SeqNo: **8067980** PrepDate: DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	2093	100	2000	0	105	78 - 124	1596	26.9	20	R
1,1,1-Trichloroethane	2244	100	2000	0	112	74 - 131	1739	25.3	20	R
1,1,2,2-Tetrachloroethane	1869	100	2000	0	93.4	71 - 121	1440	25.9	20	R
1,1,2-Trichloroethane	2101	100	2000	0	105	80 - 119	1524	31.8	20	R
1,1-Dichloroethane	2340	100	2000	0	117	77 - 125	1730	30	20	R
1,1-Dichloroethene	2673	100	2000	189.3	124	71 - 131	2151	21.6	20	R
1,1-Dichloropropene	2274	100	2000	0	114	78 - 125	1754	25.8	20	R
1,2,3-Trichlorobenzene	1778	100	2000	0	88.9	69 - 129	1277	32.8	20	R
1,2,3-Trichloropropane	1882	100	2000	2751	-43.4	73 - 122	1473	24.4	20	SR
1,2,4-Trichlorobenzene	1889	100	2000	51.18	91.9	69 - 130	1389	30.5	20	R
1,2,4-Trimethylbenzene	2185	100	2000	0	109	76 - 124	1596	31.1	20	R
1,2-Dibromo-3-chloropropane	1655	100	2000	0	82.7	62 - 128	1273	26.1	20	R
1,2-Dibromoethane	2135	100	2000	0	107	77 - 121	1625	27.1	20	R
1,2-Dichlorobenzene	2042	100	2000	0	102	80 - 119	1465	32.9	20	R
1,2-Dichloroethane	2147	100	2000	298.3	92.5	73 - 128	1624	27.8	20	R
1,2-Dichloropropane	2235	100	2000	2969	-36.7	78 - 122	1687	28	20	SR
1,3,5-Trimethylbenzene	2177	100	2000	0	109	75 - 124	1612	29.8	20	R
1,3-Dichlorobenzene	2070	100	2000	0	103	80 - 119	1551	28.6	20	R
1,3-Dichloropropane	2079	100	2000	0	104	80 - 119	1548	29.3	20	R
1,4-Dichlorobenzene	2062	100	2000	0	103	79 - 118	1546	28.6	20	R
2,2-Dichloropropane	2196	100	2000	0	110	60 - 139	1653	28.2	20	R
2-Butanone	3978	200	4000	0	99.5	56 - 143	3082	25.4	20	R
2-Chlorotoluene	2187	100	2000	0	109	79 - 122	1618	29.9	20	R
2-Hexanone	3574	200	4000	0	89.4	57 - 139	2776	25.2	20	R
4-Chlorotoluene	2124	100	2000	0	106	78 - 122	1604	27.9	20	R
4-Isopropyltoluene	2027	100	2000	0	101	77 - 127	1513	29	20	R
4-Methyl-2-pentanone	3619	200	4000	0	90.5	67 - 130	2781	26.2	20	R
Acetone	3656	200	4000	0	91.4	39 - 160	2739	28.7	20	R
Benzene	2265	100	2000	0	113	79 - 120	1767	24.7	20	R
Bromobenzene	2090	100	2000	0	104	80 - 120	1596	26.8	20	R
Bromochloromethane	2252	100	2000	0	113	78 - 123	1683	28.9	20	R
Bromodichloromethane	2115	100	2000	0	106	79 - 125	1588	28.5	20	R
Bromoform	1966	100	2000	0	98.3	66 - 130	1475	28.6	20	R
Bromomethane	2297	100	2000	0	115	53 - 141	1787	25	20	R

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060487

QC BATCH REPORT

Batch ID: R469280 (0) **Instrument: VOA7** **Method: VOLATILES ORGANICS BY METHOD 8260C**

MSD Sample ID: **HS24060214-10MSD** Units: **ug/L** Analysis Date: **12-Jun-2024 19:43**
Client ID: Run ID: **VOA7_469280** SeqNo: **8067980** PrepDate: DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Carbon disulfide	4640	200	4000	0	116	64 - 133	3659	23.6	20	R
Carbon tetrachloride	2161	100	2000	73.02	104	72 - 136	1663	26	20	R
Chlorobenzene	2213	100	2000	0	111	82 - 118	1643	29.6	20	R
Chloroethane	2421	100	2000	0	121	60 - 138	1914	23.4	20	R
Chloroform	2294	100	2000	0	115	79 - 124	1728	28.1	20	R
Chloromethane	2400	100	2000	0	120	50 - 139	1948	20.8	20	R
cis-1,2-Dichloroethene	3027	100	2000	616.2	121	78 - 123	2450	21.1	20	R
cis-1,3-Dichloropropene	2085	100	2000	0	104	75 - 124	1656	23	20	R
Dibromochloromethane	2021	100	2000	0	101	74 - 126	1512	28.8	20	R
Dibromomethane	2066	100	2000	0	103	79 - 123	1598	25.6	20	R
Dichlorodifluoromethane	2454	100	2000	73.38	119	32 - 152	1846	28.3	20	R
Ethylbenzene	2310	100	2000	0	115	79 - 121	1701	30.3	20	R
Hexachlorobutadiene	2291	100	2000	0	115	66 - 134	1643	32.9	20	R
Isopropylbenzene	2311	100	2000	0	116	72 - 131	1701	30.4	20	R
m,p-Xylene	4626	200	4000	0	116	80 - 121	3392	30.8	20	R
Methylene chloride	2424	200	2000	43.16	119	74 - 124	1905	24	20	R
Naphthalene	1676	100	2000	0	83.8	61 - 128	1248	29.3	20	R
n-Butylbenzene	2043	100	2000	0	102	75 - 128	1522	29.2	20	R
n-Propylbenzene	2203	100	2000	0	110	76 - 126	1640	29.3	20	R
o-Xylene	2295	100	2000	0	115	78 - 122	1673	31.4	20	R
sec-Butylbenzene	2222	100	2000	0	111	77 - 126	1650	29.6	20	R
Styrene	2221	100	2000	0	111	78 - 123	1672	28.2	20	R
tert-Butylbenzene	2258	100	2000	0	113	78 - 124	1673	29.7	20	R
Tetrachloroethene	2200	100	2000	0	110	74 - 129	1636	29.4	20	R
Toluene	2278	100	2000	0	114	80 - 121	1700	29	20	R
trans-1,2-Dichloroethene	2166	100	2000	0	108	75 - 124	1695	24.4	20	R
trans-1,3-Dichloropropene	2085	100	2000	0	104	73 - 127	1656	23	20	R
Trichloroethene	9254	100	2000	6400	143	79 - 123	9021	2.55	20	S
Trichlorofluoromethane	2438	100	2000	0	122	65 - 141	1809	29.6	20	R
Vinyl chloride	2395	100	2000	89.75	115	58 - 137	1898	23.1	20	R
Surr: 1,2-Dichloroethane-d4	*5995*	*3500*	*5000*	*0*	*120*	*81 - 118*	*5847*	*2.5*	*20*	S
Surr: 4-Bromofluorobenzene	*5797*	*3500*	*5000*	*0*	*116*	*85 - 114*	*5687*	*1.92*	*20*	S
Surr: Dibromofluoromethane	*6077*	*3500*	*5000*	*0*	*122*	*80 - 119*	*5798*	*4.71*	*20*	S
Surr: Toluene-d8	*5995*	*3500*	*5000*	*0*	*120*	*89 - 112*	*5825*	*2.89*	*20*	S

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client:	Bhate Environmental Associates, Inc.
Project:	LHAAP 18 24
WorkOrder:	HS24060487

QC BATCH REPORT

Batch ID:	**R469280 (0)**	**Instrument:**	**VOA7**	**Method:**	**VOLATILES ORGANICS BY METHOD 8260C**

The following samples were analyzed in this batch:	HS24060487-01	HS24060487-02	HS24060487-03

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060487

QC BATCH REPORT

Batch ID: R469580 (0) **Instrument:** VOA7 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-240615** Units: **ug/L** Analysis Date: **15-Jun-2024 20:07**
Client ID: Run ID: **VOA7_469580** SeqNo: **8073882** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	0.50	1.0								U
1,1,1-Trichloroethane	0.50	1.0								U
1,1,2,2-Tetrachloroethane	0.50	1.0								U
1,1,2-Trichloroethane	0.50	1.0								U
1,1-Dichloroethane	0.50	1.0								U
1,1-Dichloroethene	0.50	1.0								U
1,1-Dichloropropene	0.50	1.0								U
1,2,3-Trichlorobenzene	0.50	1.0								U
1,2,3-Trichloropropane	0.50	1.0								U
1,2,4-Trichlorobenzene	0.50	1.0								U
1,2,4-Trimethylbenzene	0.50	1.0								U
1,2-Dibromo-3-chloropropane	0.50	1.0								U
1,2-Dibromoethane	0.50	1.0								U
1,2-Dichlorobenzene	0.50	1.0								U
1,2-Dichloroethane	0.50	1.0								U
1,2-Dichloropropane	0.50	1.0								U
1,3,5-Trimethylbenzene	0.50	1.0								U
1,3-Dichlorobenzene	0.50	1.0								U
1,3-Dichloropropane	0.50	1.0								U
1,4-Dichlorobenzene	0.50	1.0								U
2,2-Dichloropropane	0.50	1.0								U
2-Butanone	1.0	2.0								U
2-Chlorotoluene	0.50	1.0								U
2-Hexanone	1.0	2.0								U
4-Chlorotoluene	0.50	1.0								U
4-Isopropyltoluene	0.50	1.0								U
4-Methyl-2-pentanone	1.0	2.0								U
Acetone	1.0	2.0								U
Benzene	0.50	1.0								U
Bromobenzene	0.50	1.0								U
Bromochloromethane	0.50	1.0								U
Bromodichloromethane	0.50	1.0								U
Bromoform	0.50	1.0								U
Bromomethane	0.50	1.0								U

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060487

QC BATCH REPORT

Batch ID: R469580 (0) **Instrument:** VOA7 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-240615** Units: **ug/L** Analysis Date: **15-Jun-2024 20:07**
Client ID: Run ID: **VOA7_469580** SeqNo: **8073882** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	1.0	2.0								U
Carbon tetrachloride	0.50	1.0								U
Chlorobenzene	0.50	1.0								U
Chloroethane	0.50	1.0								U
Chloroform	0.50	1.0								U
Chloromethane	0.50	1.0								U
cis-1,2-Dichloroethene	0.50	1.0								U
cis-1,3-Dichloropropene	0.50	1.0								U
Dibromochloromethane	0.50	1.0								U
Dibromomethane	0.50	1.0								U
Dichlorodifluoromethane	0.50	1.0								U
Ethylbenzene	0.50	1.0								U
Hexachlorobutadiene	0.50	1.0								U
Isopropylbenzene	0.50	1.0								U
m,p-Xylene	1.0	2.0								U
Methylene chloride	0.50	2.0								U
Naphthalene	0.50	1.0								U
n-Butylbenzene	0.50	1.0								U
n-Propylbenzene	0.50	1.0								U
o-Xylene	0.50	1.0								U
sec-Butylbenzene	0.50	1.0								U
Styrene	0.50	1.0								U
tert-Butylbenzene	0.50	1.0								U
Tetrachloroethene	0.50	1.0								U
Toluene	0.50	1.0								U
trans-1,2-Dichloroethene	0.50	1.0								U
trans-1,3-Dichloropropene	0.50	1.0								U
Trichloroethene	0.50	1.0								U
Trichlorofluoromethane	0.50	1.0								U
Vinyl chloride	0.50	1.0								U
Surr: 1,2-Dichloroethane-d4	*57.75*	*35*	*50*	*0*	*116*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*54.97*	*35*	*50*	*0*	*110*	*85 - 114*				
Surr: Dibromofluoromethane	*57.43*	*35*	*50*	*0*	*115*	*80 - 119*				
Surr: Toluene-d8	*55.86*	*35*	*50*	*0*	*112*	*89 - 112*				

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060487

QC BATCH REPORT

Batch ID: R469580 (0) **Instrument:** VOA7 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCS Sample ID: **VLCSW-240615** Units: **ug/L** Analysis Date: **15-Jun-2024 18:58**
Client ID: Run ID: **VOA7_469580** SeqNo: **8073880** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	19.73	1.0	20	0	98.6	78 - 124				
1,1,1-Trichloroethane	18.76	1.0	20	0	93.8	74 - 131				
1,1,2,2-Tetrachloroethane	20.87	1.0	20	0	104	71 - 121				
1,1,2-Trichloroethane	20.29	1.0	20	0	101	80 - 119				
1,1-Dichloroethane	17.88	1.0	20	0	89.4	77 - 125				
1,1-Dichloroethene	19.31	1.0	20	0	96.5	71 - 131				
1,1-Dichloropropene	19.21	1.0	20	0	96.0	78 - 125				
1,2,3-Trichlorobenzene	19.99	1.0	20	0	99.9	69 - 129				
1,2,3-Trichloropropane	20.04	1.0	20	0	100	73 - 122				
1,2,4-Trichlorobenzene	20.66	1.0	20	0	103	69 - 130				
1,2,4-Trimethylbenzene	20.66	1.0	20	0	103	76 - 124				
1,2-Dibromo-3-chloropropane	19.2	1.0	20	0	96.0	62 - 128				
1,2-Dibromoethane	19.46	1.0	20	0	97.3	77 - 121				
1,2-Dichlorobenzene	20.37	1.0	20	0	102	80 - 119				
1,2-Dichloroethane	18.82	1.0	20	0	94.1	73 - 128				
1,2-Dichloropropane	19.16	1.0	20	0	95.8	78 - 122				
1,3,5-Trimethylbenzene	20.34	1.0	20	0	102	75 - 124				
1,3-Dichlorobenzene	20.76	1.0	20	0	104	80 - 119				
1,3-Dichloropropane	19.99	1.0	20	0	99.9	80 - 119				
1,4-Dichlorobenzene	20.53	1.0	20	0	103	79 - 118				
2,2-Dichloropropane	17.51	1.0	20	0	87.6	60 - 139				
2-Butanone	39.81	2.0	40	0	99.5	56 - 143				
2-Chlorotoluene	20.65	1.0	20	0	103	79 - 122				
2-Hexanone	39.8	2.0	40	0	99.5	57 - 139				
4-Chlorotoluene	20.56	1.0	20	0	103	78 - 122				
4-Isopropyltoluene	20.35	1.0	20	0	102	77 - 127				
4-Methyl-2-pentanone	41.31	2.0	40	0	103	67 - 130				
Acetone	36.59	2.0	40	0	91.5	39 - 160				
Benzene	19.6	1.0	20	0	98.0	79 - 120				
Bromobenzene	20.76	1.0	20	0	104	80 - 120				
Bromochloromethane	19.66	1.0	20	0	98.3	78 - 123				
Bromodichloromethane	17.22	1.0	20	0	86.1	79 - 125				
Bromoform	18.5	1.0	20	0	92.5	66 - 130				
Bromomethane	19.47	1.0	20	0	97.3	53 - 141				

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060487

QC BATCH REPORT

Batch ID: R469580 (0) **Instrument:** VOA7 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCS Sample ID: **VLCSW-240615** Units: **ug/L** Analysis Date: **15-Jun-2024 18:58**
Client ID: Run ID: **VOA7_469580** SeqNo: **8073880** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	38.03	2.0	40	0	95.1	64 - 133				
Carbon tetrachloride	18.26	1.0	20	0	91.3	72 - 136				
Chlorobenzene	19.92	1.0	20	0	99.6	82 - 118				
Chloroethane	19.16	1.0	20	0	95.8	60 - 138				
Chloroform	18.89	1.0	20	0	94.4	79 - 124				
Chloromethane	19.13	1.0	20	0	95.7	50 - 139				
cis-1,2-Dichloroethene	18.97	1.0	20	0	94.9	78 - 123				
cis-1,3-Dichloropropene	18.21	1.0	20	0	91.1	75 - 124				
Dibromochloromethane	18.36	1.0	20	0	91.8	74 - 126				
Dibromomethane	19.14	1.0	20	0	95.7	79 - 123				
Dichlorodifluoromethane	18.28	1.0	20	0	91.4	32 - 152				
Ethylbenzene	19.84	1.0	20	0	99.2	79 - 121				
Hexachlorobutadiene	21.04	1.0	20	0	105	66 - 134				
Isopropylbenzene	20.03	1.0	20	0	100	72 - 131				
m,p-Xylene	40.57	2.0	40	0	101	80 - 121				
Methylene chloride	18.79	2.0	20	0	93.9	74 - 124				
Naphthalene	19.72	1.0	20	0	98.6	61 - 128				
n-Butylbenzene	20.31	1.0	20	0	102	75 - 128				
n-Propylbenzene	20.35	1.0	20	0	102	76 - 126				
o-Xylene	20.35	1.0	20	0	102	78 - 122				
sec-Butylbenzene	20.95	1.0	20	0	105	77 - 126				
Styrene	20.27	1.0	20	0	101	78 - 123				
tert-Butylbenzene	20.5	1.0	20	0	102	78 - 124				
Tetrachloroethene	19.77	1.0	20	0	98.8	74 - 129				
Toluene	20.22	1.0	20	0	101	80 - 121				
trans-1,2-Dichloroethene	17.61	1.0	20	0	88.0	75 - 124				
trans-1,3-Dichloropropene	18.21	1.0	20	0	91.1	73 - 127				
Trichloroethene	19.02	1.0	20	0	95.1	79 - 123				
Trichlorofluoromethane	18.12	1.0	20	0	90.6	65 - 141				
Vinyl chloride	18.79	1.0	20	0	94.0	58 - 137				
Surr: 1,2-Dichloroethane-d4	*47.94*	*35*	*50*	*0*	*95.9*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*51.19*	*35*	*50*	*0*	*102*	*85 - 114*				
Surr: Dibromofluoromethane	*48.36*	*35*	*50*	*0*	*96.7*	*80 - 119*				
Surr: Toluene-d8	*52.34*	*35*	*50*	*0*	*105*	*89 - 112*				

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060487

QC BATCH REPORT

Batch ID: R469580 (0) **Instrument:** VOA7 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCSD Sample ID: **VLCSDW-240615** Units: **ug/L** Analysis Date: **15-Jun-2024 19:21**
Client ID: Run ID: **VOA7_469580** SeqNo: **8073881** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	19.68	1.0	20	0	98.4	78 - 124	19.73	0.238	20	
1,1,1-Trichloroethane	18.95	1.0	20	0	94.7	74 - 131	18.76	1.01	20	
1,1,2,2-Tetrachloroethane	21.5	1.0	20	0	108	71 - 121	20.87	3.01	20	
1,1,2-Trichloroethane	21.04	1.0	20	0	105	80 - 119	20.29	3.66	20	
1,1-Dichloroethane	18.17	1.0	20	0	90.8	77 - 125	17.88	1.58	20	
1,1-Dichloroethene	19.84	1.0	20	0	99.2	71 - 131	19.31	2.72	20	
1,1-Dichloropropene	19.21	1.0	20	0	96.0	78 - 125	19.21	0.00663	20	
1,2,3-Trichlorobenzene	19.73	1.0	20	0	98.7	69 - 129	19.99	1.28	20	
1,2,3-Trichloropropane	21.16	1.0	20	0	106	73 - 122	20.04	5.44	20	
1,2,4-Trichlorobenzene	20.41	1.0	20	0	102	69 - 130	20.66	1.23	20	
1,2,4-Trimethylbenzene	20.91	1.0	20	0	105	76 - 124	20.66	1.23	20	
1,2-Dibromo-3-chloropropane	19.19	1.0	20	0	95.9	62 - 128	19.2	0.0378	20	
1,2-Dibromoethane	20.21	1.0	20	0	101	77 - 121	19.46	3.76	20	
1,2-Dichlorobenzene	20.92	1.0	20	0	105	80 - 119	20.37	2.65	20	
1,2-Dichloroethane	19.44	1.0	20	0	97.2	73 - 128	18.82	3.29	20	
1,2-Dichloropropane	19.35	1.0	20	0	96.7	78 - 122	19.16	0.973	20	
1,3,5-Trimethylbenzene	20.81	1.0	20	0	104	75 - 124	20.34	2.29	20	
1,3-Dichlorobenzene	20.94	1.0	20	0	105	80 - 119	20.76	0.843	20	
1,3-Dichloropropane	20.24	1.0	20	0	101	80 - 119	19.99	1.25	20	
1,4-Dichlorobenzene	21.08	1.0	20	0	105	79 - 118	20.53	2.62	20	
2,2-Dichloropropane	17.85	1.0	20	0	89.2	60 - 139	17.51	1.91	20	
2-Butanone	42.36	2.0	40	0	106	56 - 143	39.81	6.21	20	
2-Chlorotoluene	20.52	1.0	20	0	103	79 - 122	20.65	0.61	20	
2-Hexanone	40.83	2.0	40	0	102	57 - 139	39.8	2.56	20	
4-Chlorotoluene	20.77	1.0	20	0	104	78 - 122	20.56	1.05	20	
4-Isopropyltoluene	20.55	1.0	20	0	103	77 - 127	20.35	1	20	
4-Methyl-2-pentanone	43.44	2.0	40	0	109	67 - 130	41.31	5.02	20	
Acetone	42.57	2.0	40	0	106	39 - 160	36.59	15.1	20	
Benzene	19.54	1.0	20	0	97.7	79 - 120	19.6	0.264	20	
Bromobenzene	21.06	1.0	20	0	105	80 - 120	20.76	1.43	20	
Bromochloromethane	20.01	1.0	20	0	100	78 - 123	19.66	1.77	20	
Bromodichloromethane	17.56	1.0	20	0	87.8	79 - 125	17.22	1.99	20	
Bromoform	18.89	1.0	20	0	94.5	66 - 130	18.5	2.08	20	
Bromomethane	20.49	1.0	20	0	102	53 - 141	19.47	5.11	20	

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060487

QC BATCH REPORT

Batch ID: R469580 (0) **Instrument:** VOA7 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCSD Sample ID: **VLCSDW-240615** Units: **ug/L** Analysis Date: **15-Jun-2024 19:21**
Client ID: Run ID: **VOA7_469580** SeqNo: **8073881** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Carbon disulfide	38.58	2.0	40	0	96.4	64 - 133	38.03	1.43	20	
Carbon tetrachloride	18.21	1.0	20	0	91.1	72 - 136	18.26	0.225	20	
Chlorobenzene	20.27	1.0	20	0	101	82 - 118	19.92	1.73	20	
Chloroethane	19.8	1.0	20	0	99.0	60 - 138	19.16	3.33	20	
Chloroform	19.74	1.0	20	0	98.7	79 - 124	18.89	4.42	20	
Chloromethane	19.1	1.0	20	0	95.5	50 - 139	19.13	0.194	20	
cis-1,2-Dichloroethene	19.84	1.0	20	0	99.2	78 - 123	18.97	4.47	20	
cis-1,3-Dichloropropene	18.51	1.0	20	0	92.5	75 - 124	18.21	1.61	20	
Dibromochloromethane	18.86	1.0	20	0	94.3	74 - 126	18.36	2.66	20	
Dibromomethane	19.32	1.0	20	0	96.6	79 - 123	19.14	0.929	20	
Dichlorodifluoromethane	18.85	1.0	20	0	94.3	32 - 152	18.28	3.1	20	
Ethylbenzene	20.3	1.0	20	0	101	79 - 121	19.84	2.28	20	
Hexachlorobutadiene	20.86	1.0	20	0	104	66 - 134	21.04	0.866	20	
Isopropylbenzene	20.25	1.0	20	0	101	72 - 131	20.03	1.11	20	
m,p-Xylene	40.85	2.0	40	0	102	80 - 121	40.57	0.689	20	
Methylene chloride	20.23	2.0	20	0	101	74 - 124	18.79	7.42	20	
Naphthalene	19.76	1.0	20	0	98.8	61 - 128	19.72	0.212	20	
n-Butylbenzene	20.4	1.0	20	0	102	75 - 128	20.31	0.441	20	
n-Propylbenzene	20.38	1.0	20	0	102	76 - 126	20.35	0.16	20	
o-Xylene	20.49	1.0	20	0	102	78 - 122	20.35	0.693	20	
sec-Butylbenzene	21.1	1.0	20	0	105	77 - 126	20.95	0.719	20	
Styrene	20.64	1.0	20	0	103	78 - 123	20.27	1.81	20	
tert-Butylbenzene	20.98	1.0	20	0	105	78 - 124	20.5	2.35	20	
Tetrachloroethene	20.07	1.0	20	0	100	74 - 129	19.77	1.53	20	
Toluene	20.15	1.0	20	0	101	80 - 121	20.22	0.337	20	
trans-1,2-Dichloroethene	19.34	1.0	20	0	96.7	75 - 124	17.61	9.35	20	
trans-1,3-Dichloropropene	18.51	1.0	20	0	92.5	73 - 127	18.21	1.61	20	
Trichloroethene	19.43	1.0	20	0	97.1	79 - 123	19.02	2.15	20	
Trichlorofluoromethane	19.44	1.0	20	0	97.2	65 - 141	18.12	7.04	20	
Vinyl chloride	19.22	1.0	20	0	96.1	58 - 137	18.79	2.25	20	
Surr: 1,2-Dichloroethane-d4	*51.37*	*35*	*50*	*0*	*103*	*81 - 118*	*47.94*	*6.91*	*20*	
Surr: 4-Bromofluorobenzene	*51.88*	*35*	*50*	*0*	*104*	*85 - 114*	*51.19*	*1.34*	*20*	
Surr: Dibromofluoromethane	*51.09*	*35*	*50*	*0*	*102*	*80 - 119*	*48.36*	*5.5*	*20*	
Surr: Toluene-d8	*52.49*	*35*	*50*	*0*	*105*	*89 - 112*	*52.34*	*0.29*	*20*	

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060487

QC BATCH REPORT

Batch ID: R469580 (0) **Instrument:** VOA7 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS24060434-01MS** Units: **ug/L** Analysis Date: **15-Jun-2024 22:01**
Client ID: Run ID: **VOA7_469580** SeqNo: **8073886** PrepDate: DF: **250**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	4013	250	5000	0	80.3	78 - 124				
1,1,1-Trichloroethane	4100	250	5000	0	82.0	74 - 131				
1,1,2,2-Tetrachloroethane	3920	250	5000	0	78.4	71 - 121				
1,1,2-Trichloroethane	3999	250	5000	0	80.0	80 - 119				S
1,1-Dichloroethane	3951	250	5000	0	79.0	77 - 125				
1,1-Dichloroethene	4371	250	5000	177.7	83.9	71 - 131				
1,1-Dichloropropene	4139	250	5000	0	82.8	78 - 125				
1,2,3-Trichlorobenzene	3282	250	5000	0	65.6	69 - 129				S
1,2,3-Trichloropropane	3813	250	5000	0	76.3	73 - 122				
1,2,4-Trichlorobenzene	3605	250	5000	0	72.1	69 - 130				
1,2,4-Trimethylbenzene	4072	250	5000	0	81.4	76 - 124				
1,2-Dibromo-3-chloropropane	3449	250	5000	0	69.0	62 - 128				
1,2-Dibromoethane	3831	250	5000	0	76.6	77 - 121				S
1,2-Dichlorobenzene	3820	250	5000	0	76.4	80 - 119				S
1,2-Dichloroethane	3950	250	5000	0	79.0	73 - 128				
1,2-Dichloropropane	4042	250	5000	0	80.8	78 - 122				
1,3,5-Trimethylbenzene	4083	250	5000	0	81.7	75 - 124				
1,3-Dichlorobenzene	3979	250	5000	0	79.6	80 - 119				S
1,3-Dichloropropane	4011	250	5000	0	80.2	80 - 119				
1,4-Dichlorobenzene	3888	250	5000	0	77.8	79 - 118				S
2,2-Dichloropropane	3711	250	5000	0	74.2	60 - 139				
2-Butanone	7968	500	10000	0	79.7	56 - 143				
2-Chlorotoluene	3993	250	5000	0	79.9	79 - 122				
2-Hexanone	7845	500	10000	0	78.4	57 - 139				
4-Chlorotoluene	3998	250	5000	0	80.0	78 - 122				
4-Isopropyltoluene	4031	250	5000	0	80.6	77 - 127				
4-Methyl-2-pentanone	8143	500	10000	0	81.4	67 - 130				
Acetone	8007	500	10000	0	80.1	39 - 160				
Benzene	4140	250	5000	0	82.8	79 - 120				
Bromobenzene	3977	250	5000	0	79.5	80 - 120				S
Bromochloromethane	3948	250	5000	0	79.0	78 - 123				
Bromodichloromethane	3562	250	5000	0	71.2	79 - 125				S
Bromoform	3646	250	5000	0	72.9	66 - 130				
Bromomethane	4330	250	5000	0	86.6	53 - 141				

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060487

QC BATCH REPORT

Batch ID: R469580 (0) **Instrument:** VOA7 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS24060434-01MS** Units: **ug/L** Analysis Date: **15-Jun-2024 22:01**
Client ID: Run ID: **VOA7_469580** SeqNo: **8073886** PrepDate: DF: **250**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	8312	500	10000	0	83.1	64 - 133				
Carbon tetrachloride	4009	250	5000	0	80.2	72 - 136				
Chlorobenzene	4010	250	5000	0	80.2	82 - 118				S
Chloroethane	4365	250	5000	0	87.3	60 - 138				
Chloroform	4116	250	5000	0	82.3	79 - 124				
Chloromethane	4282	250	5000	0	85.6	50 - 139				
cis-1,2-Dichloroethene	24020	250	5000	20600	68.4	78 - 123				SO
cis-1,3-Dichloropropene	3806	250	5000	0	76.1	75 - 124				
Dibromochloromethane	3633	250	5000	0	72.7	74 - 126				S
Dibromomethane	3906	250	5000	0	78.1	79 - 123				S
Dichlorodifluoromethane	4195	250	5000	0	83.9	32 - 152				
Ethylbenzene	4116	250	5000	0	82.3	79 - 121				
Hexachlorobutadiene	3892	250	5000	0	77.8	66 - 134				
Isopropylbenzene	4132	250	5000	0	82.6	72 - 131				
m,p-Xylene	8356	500	10000	0	83.6	80 - 121				
Methylene chloride	4223	500	5000	0	84.5	74 - 124				
Naphthalene	3240	250	5000	0	64.8	61 - 128				
n-Butylbenzene	3996	250	5000	0	79.9	75 - 128				
n-Propylbenzene	4081	250	5000	0	81.6	76 - 126				
o-Xylene	4076	250	5000	0	81.5	78 - 122				
sec-Butylbenzene	4105	250	5000	0	82.1	77 - 126				
Styrene	4060	250	5000	0	81.2	78 - 123				
tert-Butylbenzene	4081	250	5000	0	81.6	78 - 124				
Tetrachloroethene	4156	250	5000	0	83.1	74 - 129				
Toluene	4144	250	5000	0	82.9	80 - 121				
trans-1,2-Dichloroethene	4184	250	5000	0	83.7	75 - 124				
trans-1,3-Dichloropropene	3806	250	5000	0	76.1	73 - 127				
Trichloroethene	8907	250	5000	4887	80.4	79 - 123				
Trichlorofluoromethane	4148	250	5000	0	83.0	65 - 141				
Vinyl chloride	4362	250	5000	0	87.2	58 - 137				
Surr: 1,2-Dichloroethane-d4	*14540*	*8800*	*12500*	*0*	*116*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*13530*	*8800*	*12500*	*0*	*108*	*85 - 114*				
Surr: Dibromofluoromethane	*14400*	*8800*	*12500*	*0*	*115*	*80 - 119*				
Surr: Toluene-d8	*15030*	*8800*	*12500*	*0*	*120*	*89 - 112*				S

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060487

QC BATCH REPORT

Batch ID: R469580 (0) **Instrument:** VOA7 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS24060434-01MSD** Units: **ug/L** Analysis Date: **15-Jun-2024 22:24**
Client ID: Run ID: **VOA7_469580** SeqNo: **8073887** PrepDate: DF: **250**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	3957	250	5000	0	79.1	78 - 124	4013	1.4	20	
1,1,1-Trichloroethane	3888	250	5000	0	77.8	74 - 131	4100	5.31	20	
1,1,2,2-Tetrachloroethane	3817	250	5000	0	76.3	71 - 121	3920	2.66	20	
1,1,2-Trichloroethane	4031	250	5000	0	80.6	80 - 119	3999	0.79	20	
1,1-Dichloroethane	3822	250	5000	0	76.4	77 - 125	3951	3.3	20	S
1,1-Dichloroethene	4117	250	5000	177.7	78.8	71 - 131	4371	6	20	
1,1-Dichloropropene	3954	250	5000	0	79.1	78 - 125	4139	4.57	20	
1,2,3-Trichlorobenzene	3295	250	5000	0	65.9	69 - 129	3282	0.418	20	S
1,2,3-Trichloropropane	3923	250	5000	0	78.5	73 - 122	3813	2.84	20	
1,2,4-Trichlorobenzene	3602	250	5000	0	72.0	69 - 130	3605	0.104	20	
1,2,4-Trimethylbenzene	3869	250	5000	0	77.4	76 - 124	4072	5.13	20	
1,2-Dibromo-3-chloropropane	3431	250	5000	0	68.6	62 - 128	3449	0.546	20	
1,2-Dibromoethane	3918	250	5000	0	78.4	77 - 121	3831	2.23	20	
1,2-Dichlorobenzene	3828	250	5000	0	76.6	80 - 119	3820	0.216	20	S
1,2-Dichloroethane	3967	250	5000	0	79.3	73 - 128	3950	0.424	20	
1,2-Dichloropropane	3899	250	5000	0	78.0	78 - 122	4042	3.61	20	S
1,3,5-Trimethylbenzene	3888	250	5000	0	77.8	75 - 124	4083	4.88	20	
1,3-Dichlorobenzene	3832	250	5000	0	76.6	80 - 119	3979	3.76	20	S
1,3-Dichloropropane	3888	250	5000	0	77.8	80 - 119	4011	3.11	20	S
1,4-Dichlorobenzene	3834	250	5000	0	76.7	79 - 118	3888	1.39	20	S
2,2-Dichloropropane	3586	250	5000	0	71.7	60 - 139	3711	3.42	20	
2-Butanone	8226	500	10000	0	82.3	56 - 143	7968	3.18	20	
2-Chlorotoluene	3910	250	5000	0	78.2	79 - 122	3993	2.1	20	S
2-Hexanone	7162	500	10000	0	71.6	57 - 139	7845	9.09	20	
4-Chlorotoluene	3842	250	5000	0	76.8	78 - 122	3998	3.98	20	S
4-Isopropyltoluene	3956	250	5000	0	79.1	77 - 127	4031	1.88	20	
4-Methyl-2-pentanone	7965	500	10000	0	79.6	67 - 130	8143	2.21	20	
Acetone	9125	500	10000	0	91.3	39 - 160	8007	13	20	
Benzene	3957	250	5000	0	79.1	79 - 120	4140	4.54	20	
Bromobenzene	3942	250	5000	0	78.8	80 - 120	3977	0.891	20	S
Bromochloromethane	4001	250	5000	0	80.0	78 - 123	3948	1.33	20	
Bromodichloromethane	3480	250	5000	0	69.6	79 - 125	3562	2.35	20	S
Bromoform	3667	250	5000	0	73.3	66 - 130	3646	0.581	20	
Bromomethane	4028	250	5000	0	80.6	53 - 141	4330	7.22	20	

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060487

QC BATCH REPORT

Batch ID: R469580 (0) **Instrument:** VOA7 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS24060434-01MSD** Units: **ug/L** Analysis Date: **15-Jun-2024 22:24**
Client ID: Run ID: **VOA7_469580** SeqNo: **8073887** PrepDate: DF: **250**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Carbon disulfide	8043	500	10000	0	80.4	64 - 133	8312	3.29	20	
Carbon tetrachloride	3898	250	5000	0	78.0	72 - 136	4009	2.8	20	
Chlorobenzene	3941	250	5000	0	78.8	82 - 118	4010	1.74	20	S
Chloroethane	4136	250	5000	0	82.7	60 - 138	4365	5.38	20	
Chloroform	3916	250	5000	0	78.3	79 - 124	4116	4.99	20	S
Chloromethane	4019	250	5000	0	80.4	50 - 139	4282	6.34	20	
cis-1,2-Dichloroethene	23650	250	5000	20600	61.0	78 - 123	24020	1.56	20	SO
cis-1,3-Dichloropropene	3685	250	5000	0	73.7	75 - 124	3806	3.23	20	S
Dibromochloromethane	3535	250	5000	0	70.7	74 - 126	3633	2.73	20	S
Dibromomethane	3948	250	5000	0	79.0	79 - 123	3906	1.07	20	S
Dichlorodifluoromethane	4081	250	5000	0	81.6	32 - 152	4195	2.76	20	
Ethylbenzene	4046	250	5000	0	80.9	79 - 121	4116	1.7	20	
Hexachlorobutadiene	3778	250	5000	0	75.6	66 - 134	3892	2.97	20	
Isopropylbenzene	4029	250	5000	0	80.6	72 - 131	4132	2.52	20	
m,p-Xylene	7766	500	10000	0	77.7	80 - 121	8356	7.32	20	S
Methylene chloride	4243	500	5000	0	84.9	74 - 124	4223	0.466	20	
Naphthalene	3351	250	5000	0	67.0	61 - 128	3240	3.39	20	
n-Butylbenzene	3806	250	5000	0	76.1	75 - 128	3996	4.87	20	
n-Propylbenzene	3944	250	5000	0	78.9	76 - 126	4081	3.42	20	
o-Xylene	3938	250	5000	0	78.8	78 - 122	4076	3.43	20	
sec-Butylbenzene	3970	250	5000	0	79.4	77 - 126	4105	3.33	20	
Styrene	3881	250	5000	0	77.6	78 - 123	4060	4.52	20	S
tert-Butylbenzene	3927	250	5000	0	78.5	78 - 124	4081	3.85	20	
Tetrachloroethene	3906	250	5000	0	78.1	74 - 129	4156	6.21	20	
Toluene	3998	250	5000	0	80.0	80 - 121	4144	3.59	20	S
trans-1,2-Dichloroethene	4026	250	5000	0	80.5	75 - 124	4184	3.86	20	
trans-1,3-Dichloropropene	3685	250	5000	0	73.7	73 - 127	3806	3.23	20	
Trichloroethene	8673	250	5000	4887	75.7	79 - 123	8907	2.67	20	S
Trichlorofluoromethane	4091	250	5000	0	81.8	65 - 141	4148	1.36	20	
Vinyl chloride	4146	250	5000	0	82.9	58 - 137	4362	5.07	20	
Surr: 1,2-Dichloroethane-d4	*14900*	*8800*	*12500*	*0*	*119*	*81 - 118*	*14540*	*2.45*	*20*	S
Surr: 4-Bromofluorobenzene	*14030*	*8800*	*12500*	*0*	*112*	*85 - 114*	*13530*	*3.67*	*20*	
Surr: Dibromofluoromethane	*15000*	*8800*	*12500*	*0*	*120*	*80 - 119*	*14400*	*4.08*	*20*	S
Surr: Toluene-d8	*15420*	*8800*	*12500*	*0*	*123*	*89 - 112*	*15030*	*2.56*	*20*	S

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client:	Bhate Environmental Associates, Inc.
Project:	LHAAP 18 24
WorkOrder:	HS24060487

QC BATCH REPORT

Batch ID:	**R469580 (0)**	**Instrument:**	**VOA7**	**Method:**	**VOLATILES ORGANICS BY METHOD 8260C**

The following samples were analyzed in this batch:	HS24060487-04	HS24060487-05	HS24060487-06	HS24060487-07
	HS24060487-08	HS24060487-09	HS24060487-10	

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060487

QC BATCH REPORT

Batch ID: R469833 (0) **Instrument: VOA9** **Method: VOLATILES ORGANICS BY METHOD 8260C**

MBLK Sample ID: **VBLKW-240618** Units: **ug/L** Analysis Date: **18-Jun-2024 17:38**
Client ID: Run ID: **VOA9_469833** SeqNo: **8085191** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Trichloroethene	1.0	1.0								U
Surr: 1,2-Dichloroethane-d4	*57.83*	*35*	*50*	*0*	*116*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*58.46*	*35*	*50*	*0*	*117*	*85 - 114*				S
Surr: Dibromofluoromethane	*55.96*	*35*	*50*	*0*	*112*	*80 - 119*				
Surr: Toluene-d8	*59.61*	*35*	*50*	*0*	*119*	*89 - 112*				S

LCS Sample ID: **VLCSW-240618** Units: **ug/L** Analysis Date: **18-Jun-2024 16:34**
Client ID: Run ID: **VOA9_469833** SeqNo: **8085190** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Trichloroethene	19.32	1.0	20	0	96.6	79 - 123				
Surr: 1,2-Dichloroethane-d4	*56.24*	*35*	*50*	*0*	*112*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*59.81*	*35*	*50*	*0*	*120*	*85 - 114*				S
Surr: Dibromofluoromethane	*56.8*	*35*	*50*	*0*	*114*	*80 - 119*				
Surr: Toluene-d8	*59.59*	*35*	*50*	*0*	*119*	*89 - 112*				S

MS Sample ID: **HS24060379-09MS** Units: **ug/L** Analysis Date: **18-Jun-2024 22:21**
Client ID: Run ID: **VOA9_469833** SeqNo: **8085193** PrepDate: DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Trichloroethene	1715	100	2000	0	85.8	79 - 123				
Surr: 1,2-Dichloroethane-d4	*5863*	*3500*	*5000*	*0*	*117*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*6171*	*3500*	*5000*	*0*	*123*	*85 - 114*				S
Surr: Dibromofluoromethane	*5826*	*3500*	*5000*	*0*	*117*	*80 - 119*				
Surr: Toluene-d8	*6204*	*3500*	*5000*	*0*	*124*	*89 - 112*				S

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 28-Jun-24

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: HS24060487

QC BATCH REPORT

Batch ID: R469833 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS24060379-09MSD** Units: **ug/L** Analysis Date: **18-Jun-2024 22:42**
Client ID: Run ID: **VOA9_469833** SeqNo: **8085194** PrepDate: DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Trichloroethene	1657	100	2000	0	82.8	79 - 123	1715	3.47	20	
Surr: 1,2-Dichloroethane-d4	*6000*	*3500*	*5000*	*0*	*120*	*81 - 118*	*5863*	*2.31*	*20*	S
Surr: 4-Bromofluorobenzene	*6180*	*3500*	*5000*	*0*	*124*	*85 - 114*	*6171*	*0.145*	*20*	S
Surr: Dibromofluoromethane	*5907*	*3500*	*5000*	*0*	*118*	*80 - 119*	*5826*	*1.37*	*20*	
Surr: Toluene-d8	*6285*	*3500*	*5000*	*0*	*126*	*89 - 112*	*6204*	*1.29*	*20*	S

The following samples were analyzed in this batch: HS24060487-09

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Bhate Environmental Associates, Inc.
Project: LHAAP 18 24
WorkOrder: **HS24060487**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter

RIGHT SOLUTIONS | RIGHT PARTNER

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arizona	AZ0793	27-May-2025
Arkansas	88-00356_2024	27-Mar-2025
California	2919; 2025	30-Apr-2025
Florida	E87611-38	30-Jun-2024
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352 2023-2024	31-Jul-2024
Kentucky	123043	30-Apr-2025
Louisiana	03087 2023-2024	30-Jun-2025
Maine	2024017	23-Jun-2026
Maryland	343; 2023-2024	30-Jun-2024
Michigan	9971	30-Apr-2025
North Carolina	624 - 2024	31-Dec-2024
Oklahoma	2023-140	31-Aug-2024
Tennessee	04016	30-Apr-2025
Texas	T104704231 TX-C24-00130	30-Apr-2025
Utah	TX026932023-14	31-Jul-2024

ALS Houston, US Date: 28-Jun-24

Sample Receipt Checklist

Work Order ID: HS24060487 **Date/Time Received:** 08-Jun-2024 08:50

Client Name: Bhate Environmental **Received by:** Hoa Tran

Completed By: /S/ Michael Lucio (eSignature) 08-Jun-2024 14:20 (Date/Time) **Reviewed by:** /S/ sebastian.lugo (eSignature) 10-Jun-2024 15:46 (Date/Time)

Matrices: w Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	1 Page(s)
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Samplers name present on COC?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	

Temperature(s)/Thermometer(s):	0.8uc/0.9c	IR31
Cooler(s)/Kit(s):	51431	
Date/Time sample(s) sent to storage:	06/08/2024 14:21	

Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☑	N/A ☐
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

RIGHT SOLUTIONS | RIGHT PARTNER

bhate

Page: ____ of ____

Project/Phase No: JVPCIBH.0001

COC Number(1): ____

LIMS Number: ____

1608 13th Avenue South, Suite 300
Birmingham Alabama 35205
Tel: 205-918-4000
Fax: 205-918-4050

Chain of Custody and Analytical Request

Facility/Base I.D.: LHAAP / **BILL to PCI**

Project/Site Name: LHAAP / Site 18/24

Client Name:

Collected by: Scott Beesinger

Field Sample ID (30 Characters Max)	Date Collected (dd-mmm-yyyy)	Time Collected (Military) (hhmm)	Sample Depth (beginning - ending)	SA Code (2)	Sample Number (3)	Sample Matrix (4)	Number of containers	VOC	PERCHLORATE	TOTAL METALS	1, 4 - DIOXANE	Ambient Blank Lot Control Number	Equipment Blank Lot Control Number	Trip Blank Lot Control Number	Cooler ID
18CPTMWC4SW_060724	07Jun2024	0655	-	N		WG	6	X	X	X	X				
18CPTMWC4_060724	07Jun2024	0735	-	N		WG	5	X	X		X				
AWD3_060724	07Jun2024	0920	-	N		WG	5	X	X	X					
MW1_060724	07Jun2024	0910		N		WG	5	X	X	X					
MW1_060724_C	07Jun2024	0910		FD		WG	5	X	X	X					
18WWC6_060724	07Jun2024	1000	-	N		WG	5	X	X		X				
18WWC2_060724	07Jun2024	1045	-	N		WG	6	X	X	X	X				
18CPTMW23SW_060724	07Jun2024	1135	-	N		WG	5	X	X		X				
18CPTMW23_060724	07Jun2024	1220	-	N		WG	5	X	X		X				
TRIPBLANK1	07Jun2024		-	TB		W	2	X							
			-												

Sample Analysis Requested (5) | Quality Assurance Samples (6)

HS24060487

Bhate Environmental Associates, Inc.

LHAAP 18 24

COMMENTS: STANDARD TAT

Custody Transfers Prior to Receipt by Laboratory

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1. Scott Beesinger	6/7/24	1400	1. Hoth	06/08/24	8:50
2.			2.		
3.			3. 51431 0.8° IR 31 CF + 0.1		

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: ____ Shipped ____ No.: ____

Method of Shipment: ____

____ Fed Ex ____ Airbill Number: ____

Analytical Lab: ALS 10450 Stanhiff Rd. Suite 210 Houston, TX 77099 (281) 530-5656

ATTN: Dane Wagasy Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

RIGHT SOLUTIONS | RIGHT PARTNER

RIGHT SOLUTIONS | RIGHT PARTNER

June 24, 2024 Service Request No:E2400682

ALS Group USA, Corp.
10450 Stancliff Road
Suite 210
Houston, TX 77099-4338

Laboratory Results for: HS24060487

Enclosed are the results of the sample(s) submitted to our laboratory June 08, 2024
For your reference, these analyses have been assigned our service request number **E2400682.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current TNI standards, where applicable, and except as noted in the laboratory case narrative provided. All results are intended to be considered in their entirety and ALS Environmental is not responsible for use of less than the complete final report. Results apply only to the items submitted to the laboratory, as received for analysis. In accordance with the current TNI Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2190. You may also contact me via email at hussam.kelany@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

H Kelany

Hussam Kelany
Project Manager

ADDRESS 10450 Stancliff Rd., Suite 210, Houston, TX 77099
PHONE +1 281 530 5656 | FAX +1 281 530 5887
ALS Group USA, Corp.
dba ALS Environmental

Certificate of Analysis

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

RIGHT SOLUTIONS | RIGHT PARTNER

RIGHT SOLUTIONS | RIGHT PARTNER

Client:	ALS Environmental - US	**Service Request No.:**	E2400682
Project:	HS24060487	**Date Received:**	06/08/24
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed in adherence to the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Nine samples were received for analysis at ALS Environmental in Houston on 06/08/24.

The samples were received in good condition and are consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2400328: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in addition to a MS/MSD for this extraction batch.

The batch precision (MS/DMS) measurements were determined on an unrelated sample in the extraction batch. The MS/DMS results are not included in this report.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS group USA Corp dba ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: ALS Environmental - US **Service Request:**E2400682
Project: HS24060487

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2400682-001	18CPTMW04SW_060724	6/7/2024	0655
E2400682-002	18CPTMW04_060724	6/7/2024	0735
E2400682-003	AWD3_060724	6/7/2024	0820
E2400682-004	MW1_060724	6/7/2024	0910
E2400682-005	MW1_060724_a	6/7/2024	0910
E2400682-006	18ww06_060724	6/7/2024	1000
E2400682-007	18ww02_060724	6/7/2024	1045
E2400682-008	18CPTMW23SW_060724	6/7/2024	1135
E2400682-009	18CPTMW23_060724	6/7/2024	1220

Service Request Summary

Folder #: **E2400682**
Client Name: ALS Environmental - US
Project Name: HS24060487
Project Number:

Report To:

ALS Group USA, Corp.
10450 Stancliff Road
Houston, TX 77099-4338
USA

Phone Number: 281-530-5656
Cell Number:
Fax Number: 281-530-5887
E-mail: alsusa_accountspayable@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: MONICA.SMITH
Date Received: 06/08/24
Internal Due Date: 6/20/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: N, Y
P.O. Number:
EDD: BASIC_WQC_CASNo

9 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 5D
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON ClO4 DOD/6850
E2400682-001	18CPTMW04SW_060724	Water	06/07/24 0655	**IV**
E2400682-002	18CPTMW04_060724	Water	06/07/24 0735	**IV**
E2400682-003	AWD3_060724	Water	06/07/24 0820	**IV**
E2400682-004	MW1_060724	Water	06/07/24 0910	**IV**
E2400682-005	MW1_060724_a	Water	06/07/24 0910	**IV**
E2400682-006	18ww06_060724	Water	06/07/24 1000	**IV**
E2400682-007	18ww02_060724	Water	06/07/24 1045	**IV**
E2400682-008	18CPTMW23SW_060724	Water	06/07/24 1135	**IV**
E2400682-009	18CPTMW23_060724	Water	06/07/24 1220	**IV**

Service Request Summary

Folder #: **E2400682**
Client Name: ALS Environmental - US
Project Name: HS24060487
Project Number:

Report To:

ALS Group USA, Corp.
10450 Stancliff Road
Houston, TX 77099-4338
USA

Phone Number: 281-530-5656
Cell Number:
Fax Number: 281-530-5887
E-mail: alsusa_accountspayable@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: MONICA.SMITH
Date Received: 06/08/24
Internal Due Date: 6/20/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: N, Y
P.O. Number:
EDD: BASIC_WQC_CASNo

9 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 5D
Pressure Gas:

Data Qualifiers

Lab Standard

+	Possible Tedlar bag artifact.
A	TIC is a suspected aldol-condensation product
B	Analyte found in the associated method blank as well as in the sample.
BC	Reported results are not blank corrected.
BH	The back section of the tube yielded higher results than the front.
BT	Results indicated possible breakthrough; back section >=10% front section.
C	Result identification confirmed.
D	Compound identified in an analysis at a secondary dilution factor
D	Spike was diluted out
DE	Reported results are corrected for desorption efficiency.
E	Estimated value. Concentration above calibration range
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
H1	Sample analysis performed past holding time. See case narrative.
H2	Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
H3	Sample was received and analyzed past holding time.
H4	Sample was extracted past required extraction holding time, but analyzed within analysis holding time. See case narrative.
I	(Auto) The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
I	Internal standard not within the specified limits. See case narrative.
I	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
J	Estimated Value. Concentration found below MRL.
K	A deflection in the QC ion may indicate interference with the quantitation of this ion. The concentration of this analyte should be considered as an estimate.
K	Analyte was detected above the method reporting limit prior to normalization.
K	The reference ion ratio was outside acceptance criteria, which may indicate a potential bias to this result.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
L1	Laboratory control sample recovery outside the specified limits; results may be biased high.
L2	Laboratory control sample recovery outside the specified limits; results may be biased low.
L3	Laboratory control sample recovery outside the specified limits.
M	Matrix interference; results may be biased high.
M	The duplicate injection precision not met.

RIGHT SOLUTIONS | RIGHT PARTNER

Data Qualifiers

Lab Standard

M1	Matrix interference due to coelution with a non-target compound; results may be biased high.
N	Presumptive evidence of a compound for TICs that have been identified based on a mass spectral library search.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
P	Indicates chlorodiphenyl ether interference present at the retention time of the target compound.
P	Pesticide/Aroclor target analyte > 40% difference for detected concentrations between GC columns
Q	Indicates as estimated value because the P and P + 2 theoretical abundance ratio does not meet method criteria.
R	Duplicate Precision not met.
R1	Duplicate precision not within the specified limits; however, the results are below the MRL and considered estimated.
S	Surrogate recovery not within specified limits.
S	The reported value was determined by the Method of Standard Additions (MSA).
T	Analyte is a tentatively identified compound, result is estimated.
U	Compound was analyzed for, but was not detected (ND).
V1	The continuing calibration verification standard was outside (biased high) the specified limits for this compound.
V2	The continuing calibration verification standard was outside (biased low) the specified limits for this compound.
W	Result quantified, but the corresponding peak was detected outside the generated retention time window.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
X	See case narrative.
Y	Recovery outside limits
Y	The chromatogram resembles a petroleum product but does not match the calibration standard.
Z	The chromatogram does not resemble a petroleum product.
i	The MRL/MDL has been elevated due to a matrix interference.

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Laboratory Group

Acronyms

Cal	Calibration
Conc	CONCentration
Dioxin(s)	Polychlorinated dibenzo-p-dioxin(s)
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
Flags	Data qualifiers
Furan(s)	Polychlorinated dibenzofuran(s)
g	Grams
ICAL	Initial CALibration
ID	IDentifier
Ions	Masses monitored for the analyte during data acquisition
L	Liter (s)
LCS	Laboratory Control Sample
DLCS	Duplicate Laboratory Control Sample
MB	Method Blank
MCL	Method Calibration Limit
MDL	Method Detection Limit
mL	Milliliters
MS	Matrix Spiked sample
DMS	Duplicate Matrix Spiked sample
NO	Number of peaks meeting all identification criteria
PCDD(s)	Polychlorinated dibenzo-p-dioxin(s)
PCDF(s)	Polychlorinated dibenzofuran(s)
ppb	Parts per billion
ppm	Parts per million
ppq	Parts per quadrillion
ppt	Parts per trillion
QA	Quality Assurance
QC	Quality Control
Ratio	Ratio of areas from monitored ions for an analyte
% Rec.	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SDG	Sample Delivery Group
S/N	Signal-to-noise ratio
TEF	Toxicity Equivalence Factor
TEQ	Toxicity Equivalence Quotient

RIGHT SOLUTIONS | RIGHT PARTNER

10450 Stancliff Rd, Houston, TX 77099 | 281-530-5656 | www.alsglobal.com

ALS Environmental

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arkansas Department of Environmental Quality	88-00356	3/28/2025
California State Environmental Laboratory Accreditation Program	2919-2024	4/30/2025
Department of Defense	L24-240	4/30/2026
Florida Department of Health	E87611-38	6/30/2024
Hawaii Department of Health	2024	4/30/2025
Illinois Environmental Protection Agency	2000322023-11	6/30/2024
Kansas Department of Health and Environment	E-10352 2023-2024	7/31/2024
Louisiana Department of Environmental Quality	03087-2023	6/30/2024
Louisiana Department of Health and Hospitals	LA028-2024	12/31/2024
Maryland Department of the Environment	343-2023	6/30/2024
Minnesota Department of Health	2645386	12/31/2024
Nevada Division of Environmental Protection	TX026932024-1	7/31/2024
New Hampshire Environmental Laboratory Accreditation Program	209424-A	4/24/2025
New Jersey Department of Environmental Protection	TX008-2024	6/30/2024
Oklahoma Department of Environmental Quality	2023-140	8/31/2024
Oregon Environmental Laboratory Accreditation Program	TX200002-2024	5/15/2025
Pennsylvania Department of Environmental Protection	68-03441-017	6/30/2024
Tennessee Department of Environment and Conservation	04016-2024	4/30/2025
Texas Commision on Environmental Quality	TX-C24-00130	4/30/2025
Utah Department of Health Environmental Laboratory Certification	TX026932023-14	7/31/2024
Washington Department of Ecology	C819-23	11/14/2024

RIGHT SOLUTIONS | RIGHT PARTNER

Chain of Custody

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

RIGHT SOLUTIONS | RIGHT PARTNER

RIGHT SOLUTIONS | RIGHT PARTNER

E2400682 5
ALS Laboratory Group
HS24060487

10450 Stancliff Rd, Ste 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

Subcontract Chain of Custody

SAMPLING STATE: **Texas** **COC ID:** **25937**

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	James Guin
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	James.Guin@alsglobal.com
Alternate Contact:	
Email:	

INVOICE INFORMATION:

Company:	ALS Houston
Contact:	Accounts Payable
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Reference:	HS24060487
TSR:	Sonia West

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24060487-01**	**18CPTMW04SW_060724**	**Waste Water**	**07 Jun 2024 06:55**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			24 Jun 2024
2.	**HS24060487-02**	**18CPTMW04_060724**	**Waste Water**	**07 Jun 2024 07:35**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			24 Jun 2024
3.	**HS24060487-03**	**AWD3_060724**	**Waste Water**	**07 Jun 2024 08:20**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			24 Jun 2024
4.	**HS24060487-04**	**MW1_060724**	**Waste Water**	**07 Jun 2024 09:10**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			24 Jun 2024
5.	**HS24060487-05**	**MW1_060724_a**	**Waste Water**	**07 Jun 2024 09:10**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			24 Jun 2024
6.	**HS24060487-06**	**18ww06_060724**	**Waste Water**	**07 Jun 2024 10:00**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			24 Jun 2024
7.	**HS24060487-07**	**18ww02_060724**	**Waste Water**	**07 Jun 2024 10:45**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			24 Jun 2024
8.	**HS24060487-08**	**18CPTMW23SW_060724**	**Waste Water**	**07 Jun 2024 11:35**

RIGHT SOLUTIONS | RIGHT PARTNER

Subcontract Chain of Custody

SAMPLING STATE: **Texas** **COC ID:** **25937**

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			24 Jun 2024
9.	**HS24060487-09**	**18CPTMW23_060724**	**Waste Water**	**07 Jun 2024 12:20**
	6850 DoD Level II and Level IV reports in separate pdf; DoD Excel EDD			24 Jun 2024

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.

QC Level: DOD IV (DoD Data Package)

Relinquished By: _____ Date/Time: _____

Received By: _____ Date/Time: _____

Cooler ID(s): _____ Temperature(s): _____

RIGHT SOLUTIONS | RIGHT PARTNER

E2400682 5
ALS Laboratory Group
HS24060487

10450 Stancliff Rd, Ste 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

Sample Receipt Checklist

Work Order ID: HS24060487 **Date/Time received:** 08 Jun 2024 08:50

Client name: Bhate Environmental Associates, Inc. **Received by:** Hoa Tran

Completed/By: 08 Jun 2024 14:20 (Date/Time) Michael Lucio (eSignature) **Reviewed/By:** 10 Jun 2024 15:46 (Date/Time) sebastian.lugo (eSignature)

Matrices: w **Carrier name:** FedEx

Shipping container/cooler in good condition?	☑ Yes	☐ No	☐ Not Present
Custody seals intact on shipping container/cooler?	☑ Yes	☐ No	☐ Not Present
Custody seals intact on Sample bottles?	☐ Yes	☐ No	☑ Not Present
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	☐ Yes	☐ No	☑ Not Present
Chain of custody present?	☑ Yes	☐ No	1 Page(s)
Chain of custody signed when relinquished and received?	☑ Yes	☐ No	COC ID(s):
Samplers name present on COC?	☑ Yes	☐ No	
Chain of custody agrees with sample labels?	☑ Yes	☐ No	
Samples in proper container/bottle?	☑ Yes	☐ No	
Sample containers intact?	☑ Yes	☐ No	
Sufficient sample volume for indicated test?	☑ Yes	☐ No	
All samples received within holding time?	☑ Yes	☐ No	
Container/Temp Blank temperature in compliance?	☑ Yes	☐ No	

Temperature(s)/Thermometer(s): 0.8uc/0.9c IR31

Cooler Information: 1 Cooler(s), 51431

Date/Time sample(s) sent to storage: 06/08/2024 14:21

Water - VOA vials have zero headspace?	☑ Yes	☐ No	☐ No VOA vials submitted
Water - pH acceptable upon receipt?	☑ Yes	☐ No	☐ Not Applicable
pH adjusted?	☐ Yes	☑ No	☐ Not Applicable

pH adjusted by: _____

Login notes: _____

Client contacted: _____ **Date contacted:** _____ **Person contacted:** _____

Contacted by: _____ **Regarding:** _____

Comments: _____

Corrective action: _____

10450 Stancliff Rd., Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

SAMPLE ACCEPTANCE POLICY

This policy outlines the criteria samples must meet to be accepted by ALS Environmental – Houston HRMS.

Cooler Custody Seals (desirable, mandatory if specified in SAP):

- ✓ Intact on outside of cooler, signed and dated

Chain-of-Custody (COC) documentation (mandatory):

The following is required on each COC:

- ✓ Sample ID, the location, date and time of collection, collector's name, preservation type, sample type, and any other special remarks concerning the sampleThe COC must be completed in ink.
- ✓ Signature and date of relinquishing party.

In the absence of a COC at sample receipt, the COC will be requested from the client.

Sample Integrity (mandatory):

Samples are inspected upon arrival to ensure that sample integrity was not compromised during transfer to the laboratory.

- ✓ Sample containers must arrive in good condition (not broken or leaking).
- ✓ Samples must be labeled appropriately, including Sample IDs, and requested test using durable labels and indelible ink.
- ✓ The correct type of sample bottle must be used for the method requested.
- ✓ An appropriate sample volume, or weight, must be received.
- ✓ Sample IDs and number of containers must reconcile with the COC.
- ✓ Samples must be received within the method defined holding time.

Temperature Requirement (varies by sample matrix):

- ✓ Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6ºC.
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10ºC.
- ✓ Air samples are shipped and stored cold, at 0 to 6ºC
- ✓ The sample temperature must be recorded on the COC

All cooler inspections are documented on the Cooler Receipt Form (CRF). A separate CRF is completed for each service request. Any samples not meeting the above criteria are noted on the CRF and the Project Manager notified. The Project Manager must resolve any sample integrity issues with the client prior to proceeding with the analysis. Such resolutions are documented in writing and filed with the project folder. Data associated with samples received outside of this acceptance policy will be qualified on the case narrative of the final report

Preparation Information Benchsheets

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

RIGHT SOLUTIONS | RIGHT PARTNER

RIGHT SOLUTIONS | RIGHT PARTNER

Preparation Information Benchsheet

Prep Run#: 440258 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** Method **Prep Date/Time:** 6/19/24 08:43

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2400682-001	18CPTMW04SW_060724	.01	6850/ClO4 DOD			Water	10mL	
2	E2400682-002	18CPTMW04_060724	.01	6850/ClO4 DOD			Water	10mL	
3	E2400682-003	AWD3_060724	.01	6850/ClO4 DOD			Water	10mL	
4	E2400682-004	MW1_060724	.01	6850/ClO4 DOD			Water	10mL	
5	E2400682-005	MW1_060724_a	.01	6850/ClO4 DOD			Water	10mL	
6	E2400682-006	18ww06_060724	.01	6850/ClO4 DOD			Water	10mL	
7	E2400682-007	18ww02_060724	.01	6850/ClO4 DOD			Water	10mL	
8	E2400682-008	18CPTMW23SW_060724	.01	6850/ClO4 DOD			Water	10mL	
9	E2400682-009	18CPTMW23_060724	.02	6850/ClO4 DOD			Water	10mL	
10	E2400684-001	MW2_060624	.01	6850/ClO4 DOD			Ground Water	10mL	
11	E2400684-002	18CPTMW01DW_060624	.01	6850/ClO4 DOD			Ground Water	10mL	
12	E2400684-003	18CPTMW01SW_060624	.01	6850/ClO4 DOD			Ground Water	10mL	
13	E2400684-004	102_060624	.01	6850/ClO4 DOD			Ground Water	10mL	
14	E2400684-005	102_060624_a	.01	6850/ClO4 DOD			Ground Water	10mL	
15	E2400684-006	18CPTMW04_060624	.01	6850/ClO4 DOD			Ground Water	10mL	
16	E2400684-007	18CPTMW24_060624	.01	6850/ClO4 DOD			Ground Water	10mL	
17	E2400684-008	MW8_060624	.01	6850/ClO4 DOD			Ground Water	10mL	
18	E2400684-009	18WW14_060624	.01	6850/ClO4 DOD			Ground Water	10mL	
19	EQ2400328-01	MB		6850/ClO4 DOD			Liquid	10mL	
20	EQ2400328-02	LCS		6850/ClO4 DOD			Liquid	10mL	
21	EQ2400328-03	DLCS		6850/ClO4 DOD			Liquid	10mL	
22	EQ2400328-04	ICS		6850/ClO4 DOD			Liquid	10mL	
23	EQ2400328-05	18WW14_060624 MS	.01	6850/ClO4 DOD			Liquid	10mL	
24	EQ2400328-06	18WW14_060624 DMS	.01	6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Intermediate Stock 2 Inventory ID 233555 Logbook Ref: Perchlorate INT. Stock2 Expires On: 08/05/2024

EQ2400328-02	10.00µL	EQ2400328-03	10.00µL	EQ2400328-04	10.00µL	EQ2400328-05	10.00µL	EQ2400328-06	10.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 235428 Logbook Ref: Perchlorate IS cg5/24/24 Expires On: 11/24/2024

E2400682-001	100.00µL	E2400682-002	100.00µL	E2400682-003	100.00µL	E2400682-004	100.00µL	E2400682-005	100.00µL	E2400682-006	100.00µL
E2400682-007	100.00µL	E2400682-008	100.00µL	E2400682-009	100.00µL	E2400684-001	100.00µL	E2400684-002	100.00µL	E2400684-003	100.00µL
E2400684-004	100.00µL	E2400684-005	100.00µL	E2400684-006	100.00µL	E2400684-007	100.00µL	E2400684-008	100.00µL	E2400684-009	100.00µL
EQ2400328-01	100.00µL	EQ2400328-02	100.00µL	EQ2400328-03	100.00µL	EQ2400328-04	100.00µL	EQ2400328-05	100.00µL	EQ2400328-06	100.00µL

Preparation Information Benchsheet

Prep Run#: 440258 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** Method **Prep Date/Time:** 6/19/24 08:43

Preparation Materials

6850 0.45um syringe filters	6850 0.45 SYRING FILTER (229979)	6850 Luer-Lok Syringes	Luer Lok Syringes (231696)

Preparation Steps

Step: Preparation
Started: 6/19/24 08:43
Finished: 6/19/24 12:57
By: JOSEL.JUAREZ
Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined

Received By: _____ Date: _____ Yes No

Analytical Results

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

RIGHT SOLUTIONS | RIGHT PARTNER

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400682
Project:	HS24060487	**Date Collected:**	6/ 7/24 0655
Sample Matrix:	Water	**Date Received:**	6/ 8/24
Sample Name:	18CPTMW04SW_060724	**Units:**	µg/L
Lab Code:	E2400682-001	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	6/19/24	6/19/24 15:39	440258	844810	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400682
Project:	HS24060487	**Date Collected:**	6/ 7/24 0735
Sample Matrix:	Water	**Date Received:**	6/ 8/24
Sample Name:	18CPTMW04_060724	**Units:**	µg/L
Lab Code:	E2400682-002	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**225**		2.00	1.00	0.500	20	6/19/24	6/20/24 10:01	440258	844983	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400682
Project:	HS24060487	**Date Collected:**	6/ 7/24 0820
Sample Matrix:	Water	**Date Received:**	6/ 8/24
Sample Name:	AWD3_060724	**Units:**	µg/L
Lab Code:	E2400682-003	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**3.50**		0.100	0.0500	0.0250	1	6/19/24	6/19/24 15:45	440258	844810	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400682
Project:	HS24060487	**Date Collected:**	6/ 7/24 0910
Sample Matrix:	Water	**Date Received:**	6/ 8/24
Sample Name:	MW1_060724	**Units:**	µg/L
Lab Code:	E2400682-004	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**1320**		10.0	5.00	2.50	100	6/19/24	6/20/24 10:07	440258	844983	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400682
Project:	HS24060487	**Date Collected:**	6/ 7/24 0910
Sample Matrix:	Water	**Date Received:**	6/ 8/24
Sample Name:	MW1_060724_a	**Units:**	µg/L
Lab Code:	E2400682-005	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**1480**		10.0	5.00	2.50	100	6/19/24	6/20/24 10:12	440258	844983	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400682
Project:	HS24060487	**Date Collected:**	6/ 7/24 1000
Sample Matrix:	Water	**Date Received:**	6/ 8/24
Sample Name:	18ww06_060724	**Units:**	µg/L
Lab Code:	E2400682-006	**Basis:**	NA

Perchlorates in Water, Soils, Solid Wastes Using High Performance LC/Electrospray/Mass Spectrometry

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	ND	U	0.100	0.0500	0.0250	1	6/19/24	6/19/24 14:16	440258	844810	